

## Pantheon Report

Generated at 2018-02-05 00:41:24 (UTC).

Data path: Brazil Ethernet (*remote*) → AWS Brazil 1 Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

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

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

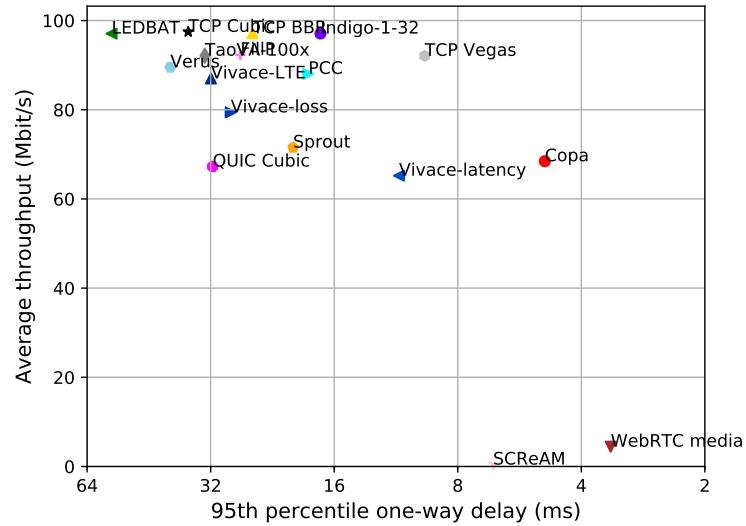
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo\_fast*).

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

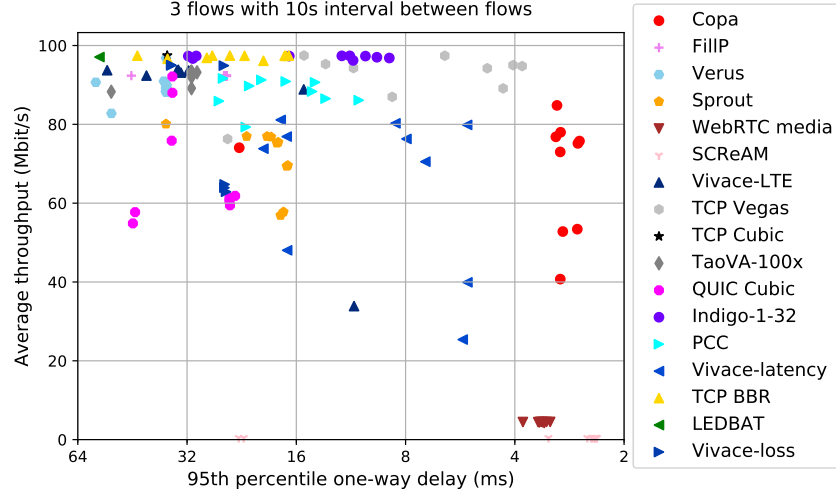
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Brazil Ethernet to AWS Brazil 1 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	63.54	38.50	24.16	24.77	25.35	27.84	0.08	0.15	0.29
TCP Cubic	1	59.77	40.60	32.30	35.34	36.27	37.17	0.10	0.69	1.75
LEDBAT	1	59.43	41.91	29.61	54.90	56.53	56.35	0.11	0.48	0.22
PCC	10	74.70	13.93	12.43	17.63	19.91	20.07	0.03	0.05	0.12
QUIC Cubic	10	15.07	58.78	41.07	16.20	31.58	31.90	0.03	0.11	0.32
SCReAM	10	0.22	0.22	0.22	6.48	6.93	6.50	0.00	0.00	0.00
WebRTC media	10	2.37	1.47	0.62	3.30	3.42	3.52	0.04	0.04	0.10
Sprout	10	38.43	35.87	28.06	19.28	20.37	21.36	0.04	0.11	0.16
TaoVA-100x	10	55.30	40.00	30.88	32.72	33.12	33.23	0.06	0.11	0.32
TCP Vegas	10	48.23	41.81	48.32	10.10	8.73	7.33	0.01	0.02	0.07
Verus	10	52.67	40.46	30.34	39.10	40.09	40.36	0.06	0.15	0.35
Copa	10	36.09	32.73	31.91	4.81	4.91	5.18	0.01	0.02	0.06
FillP	10	55.90	39.37	30.96	26.19	27.29	27.99	0.46	2.26	4.14
Indigo-1-32	10	48.83	45.57	54.96	16.44	17.32	18.39	0.01	0.04	0.12
Vivace-latency	10	36.58	32.90	20.57	9.44	12.08	13.48	0.01	0.02	0.11
Vivace-loss	6	31.69	56.04	31.98	28.34	28.59	28.75	0.47	0.17	3.17
Vivace-LTE	10	59.22	26.64	30.74	30.24	31.91	33.26	0.05	0.11	0.31

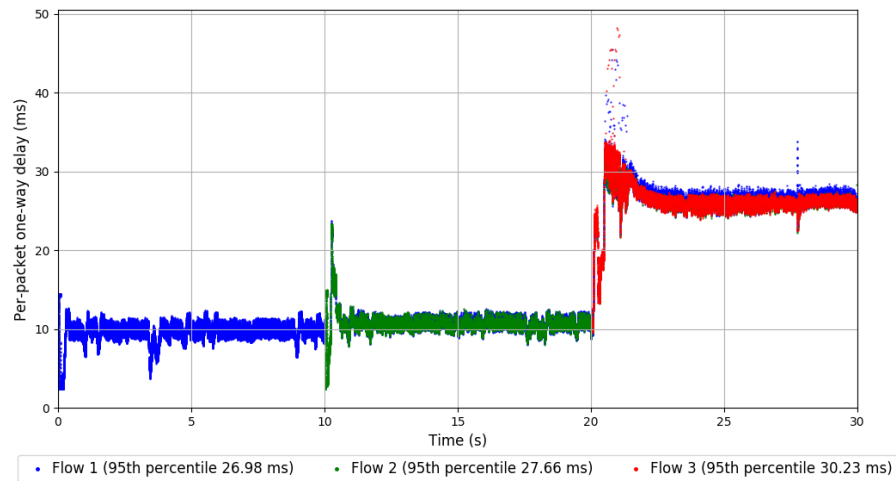
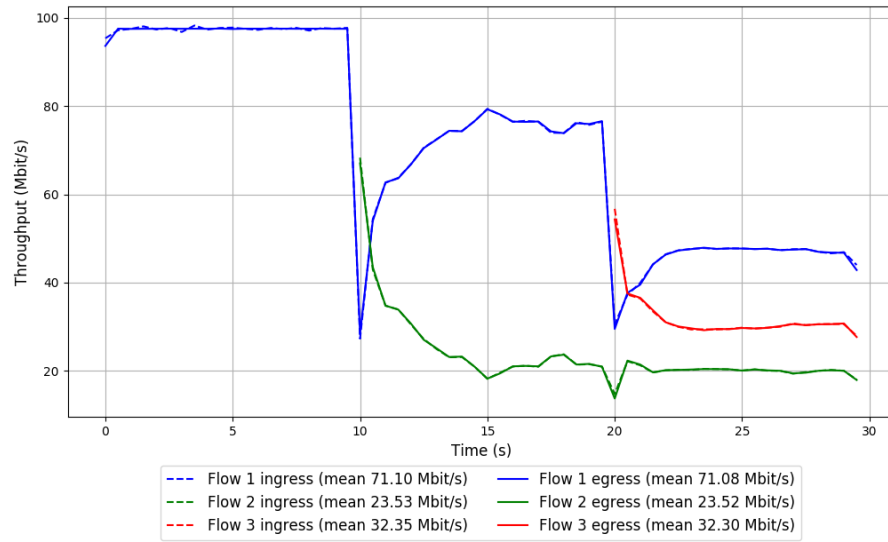
Run 1: Statistics of TCP BBR

Start at: 2018-02-04 17:41:23  
End at: 2018-02-04 17:41:53  
Local clock offset: 0.026 ms  
Remote clock offset: -0.553 ms

# Below is generated by plot.py at 2018-02-05 00:17:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 27.274 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 71.08 Mbit/s  
95th percentile per-packet one-way delay: 26.978 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 23.52 Mbit/s  
95th percentile per-packet one-way delay: 27.661 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 32.30 Mbit/s  
95th percentile per-packet one-way delay: 30.226 ms  
Loss rate: 0.28%



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

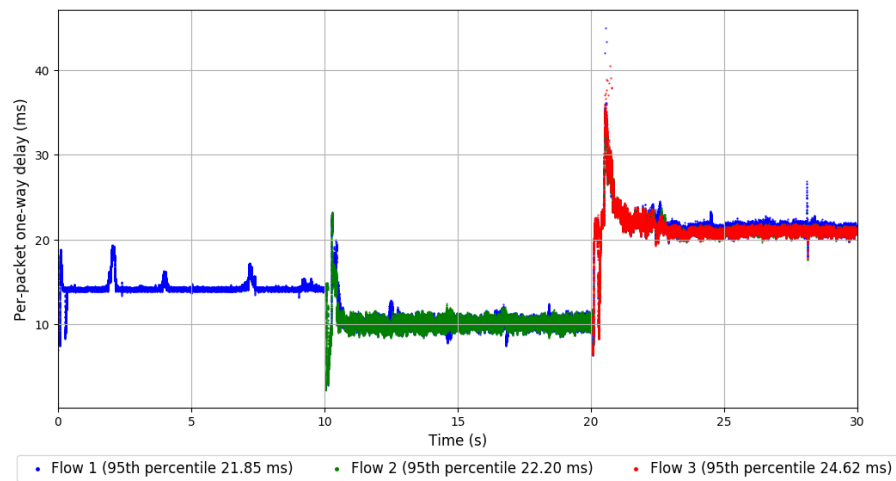
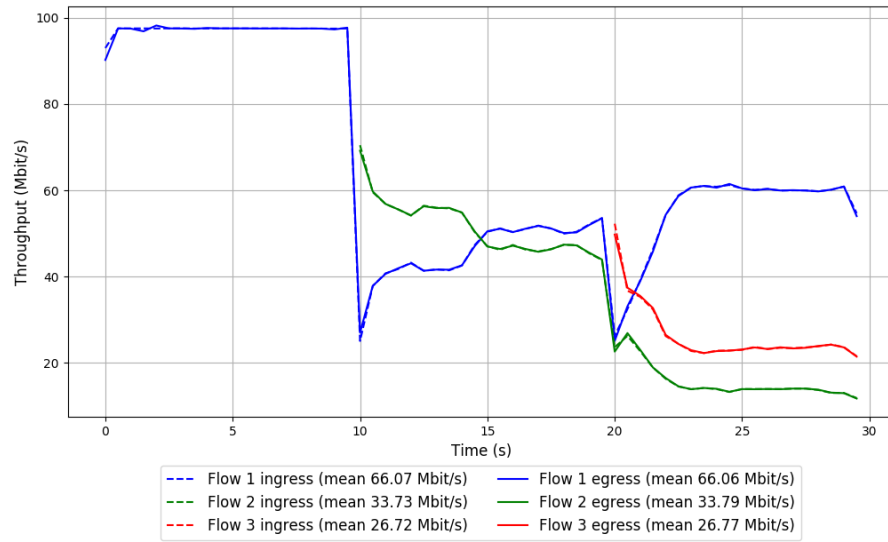


Run 2: Statistics of TCP BBR

Start at: 2018-02-04 18:01:51  
End at: 2018-02-04 18:02:21  
Local clock offset: 0.038 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-02-05 00:17:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 22.222 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 66.06 Mbit/s  
95th percentile per-packet one-way delay: 21.854 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 33.79 Mbit/s  
95th percentile per-packet one-way delay: 22.197 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 26.77 Mbit/s  
95th percentile per-packet one-way delay: 24.625 ms  
Loss rate: 0.22%

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



Run 3: Statistics of TCP BBR

Start at: 2018-02-04 18:22:18

End at: 2018-02-04 18:22:48

Local clock offset: 0.05 ms

Remote clock offset: 0.166 ms

# Below is generated by plot.py at 2018-02-05 00:17:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 28.230 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 47.51 Mbit/s

95th percentile per-packet one-way delay: 26.403 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 60.25 Mbit/s

95th percentile per-packet one-way delay: 28.173 ms

Loss rate: 0.44%

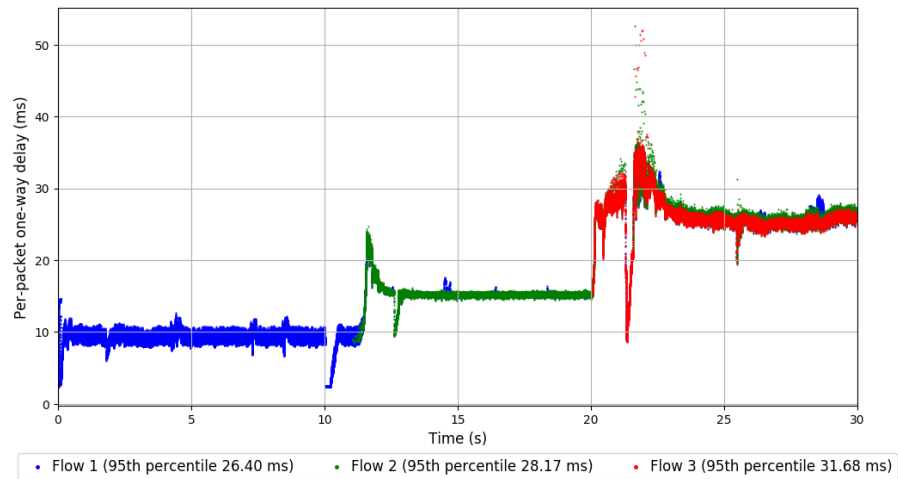
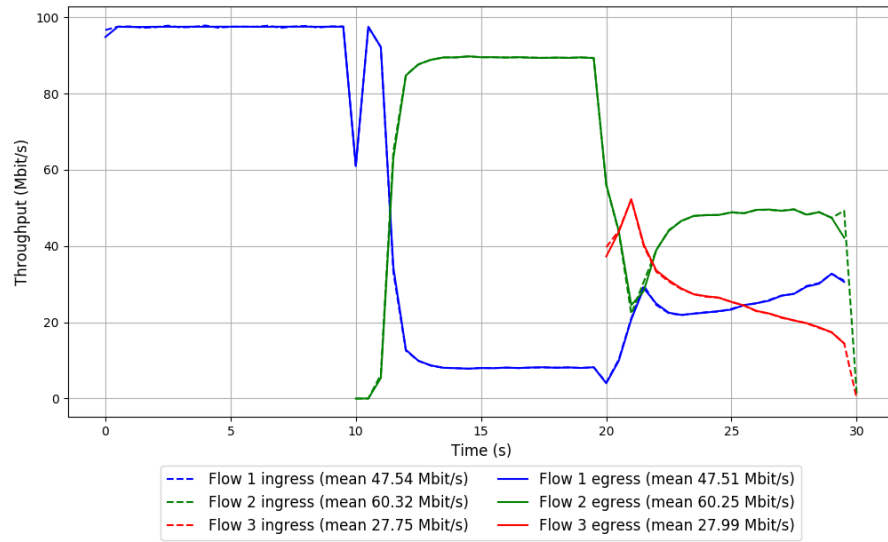
-- Flow 3:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 31.677 ms

Loss rate: 0.17%

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



Run 4: Statistics of TCP BBR

Start at: 2018-02-04 18:42:41

End at: 2018-02-04 18:43:11

Local clock offset: 0.01 ms

Remote clock offset: 1.208 ms

# Below is generated by plot.py at 2018-02-05 00:17:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.13 Mbit/s

95th percentile per-packet one-way delay: 19.711 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 62.33 Mbit/s

95th percentile per-packet one-way delay: 19.464 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 19.798 ms

Loss rate: 0.03%

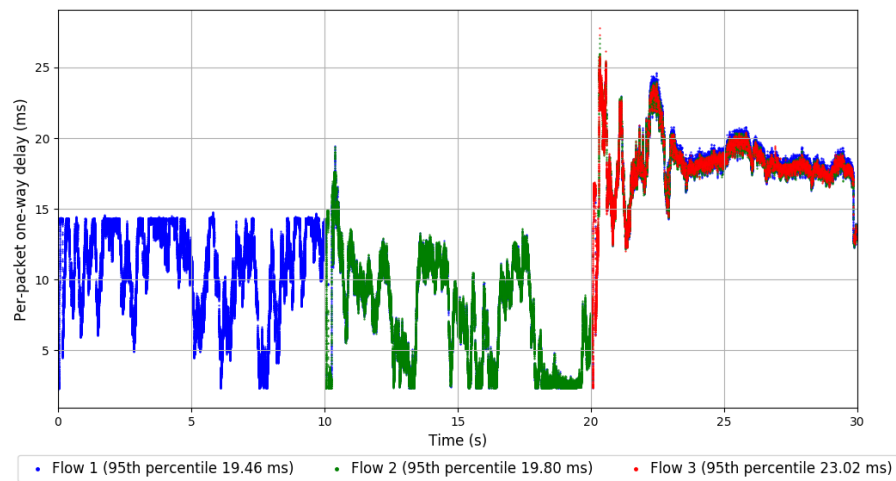
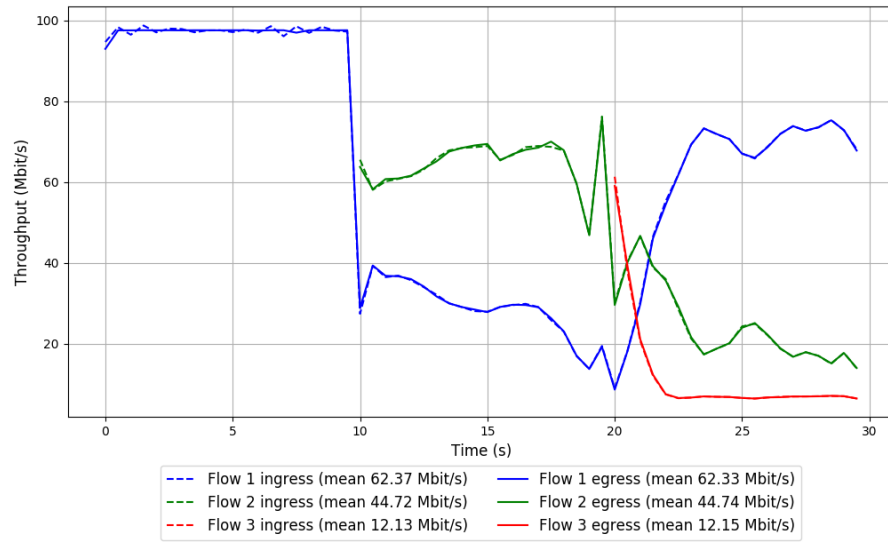
-- Flow 3:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 23.016 ms

Loss rate: 0.11%

# Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-04 19:03:04

End at: 2018-02-04 19:03:34

Local clock offset: -0.007 ms

Remote clock offset: 2.553 ms

# Below is generated by plot.py at 2018-02-05 00:17:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 16.783 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 16.800 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 16.449 ms

Loss rate: 0.02%

-- Flow 3:

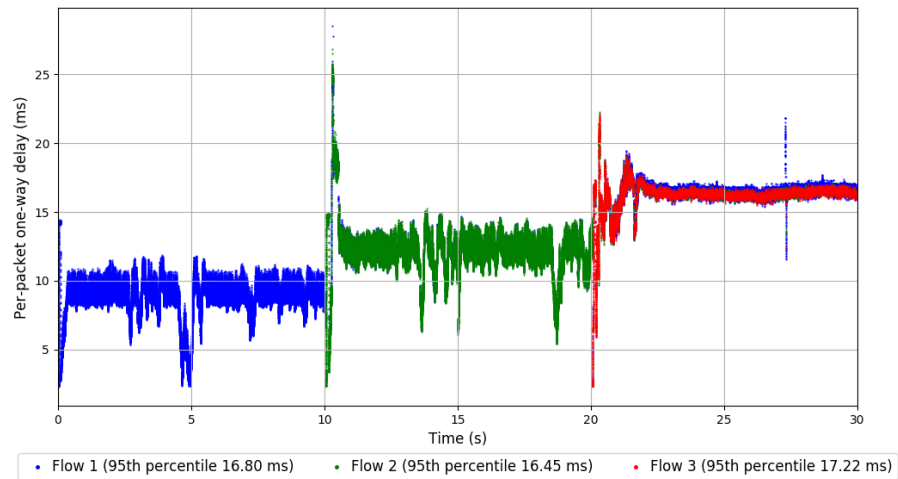
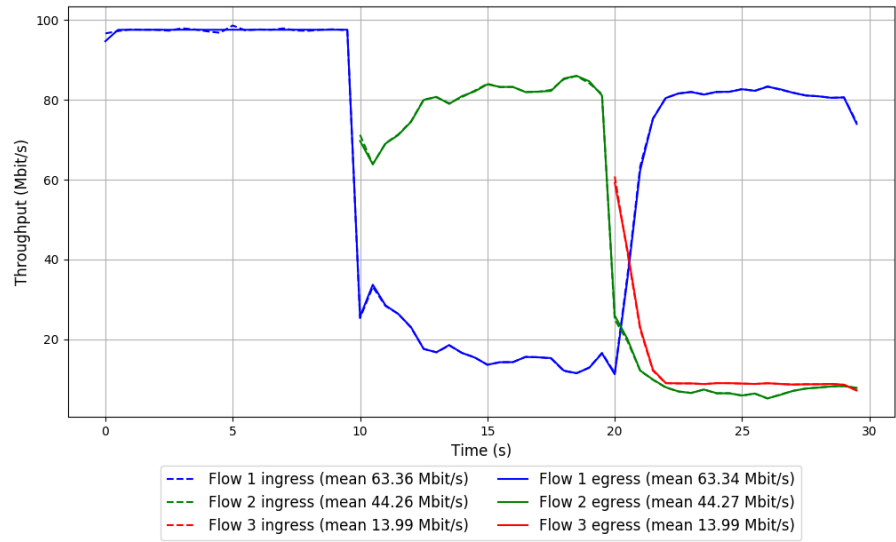
Average throughput: 13.99 Mbit/s

95th percentile per-packet one-way delay: 17.222 ms

Loss rate: 0.10%



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



Run 6: Statistics of TCP BBR

Start at: 2018-02-04 19:23:32

End at: 2018-02-04 19:24:02

Local clock offset: 0.021 ms

Remote clock offset: 3.166 ms

# Below is generated by plot.py at 2018-02-05 00:17:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.64 Mbit/s

95th percentile per-packet one-way delay: 36.213 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 35.161 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 36.856 ms

Loss rate: 0.35%

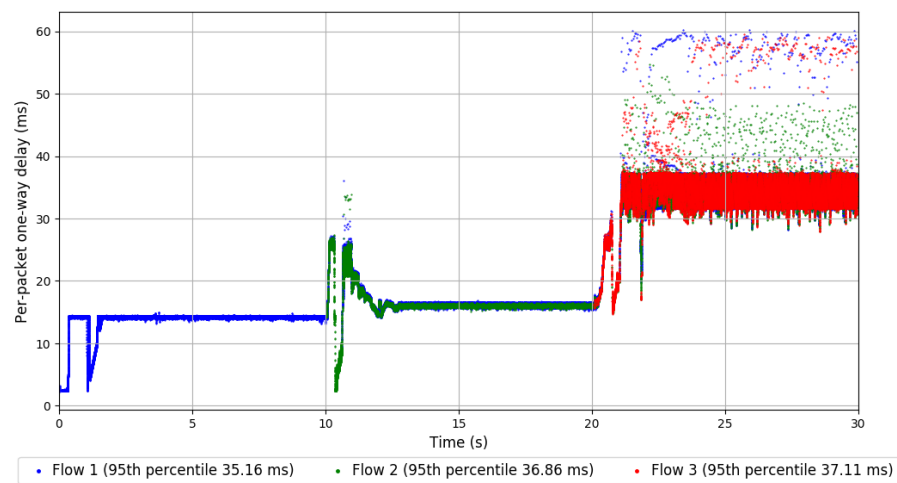
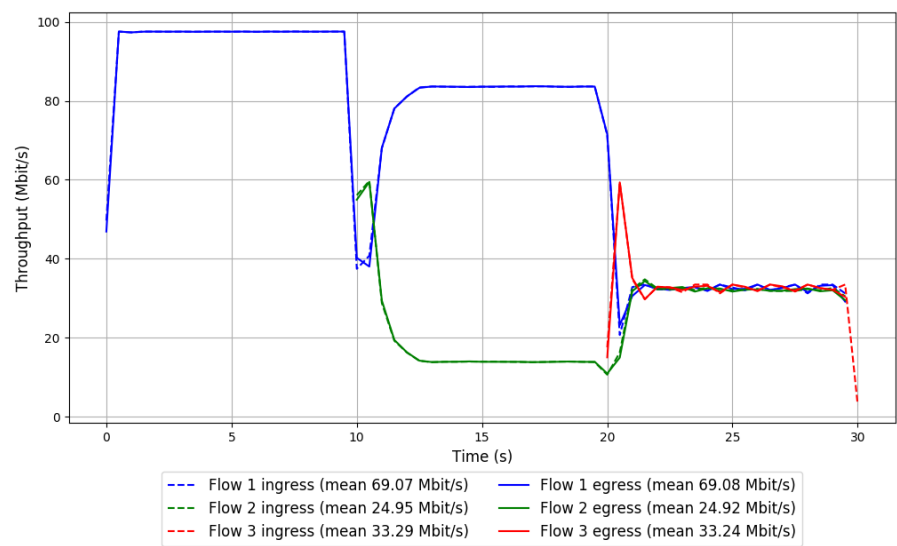
-- Flow 3:

Average throughput: 33.24 Mbit/s

95th percentile per-packet one-way delay: 37.107 ms

Loss rate: 1.27%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-04 19:43:56

End at: 2018-02-04 19:44:26

Local clock offset: -0.03 ms

Remote clock offset: 2.923 ms

# Below is generated by plot.py at 2018-02-05 00:17:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 17.229 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 67.39 Mbit/s

95th percentile per-packet one-way delay: 17.253 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 37.22 Mbit/s

95th percentile per-packet one-way delay: 16.903 ms

Loss rate: 0.02%

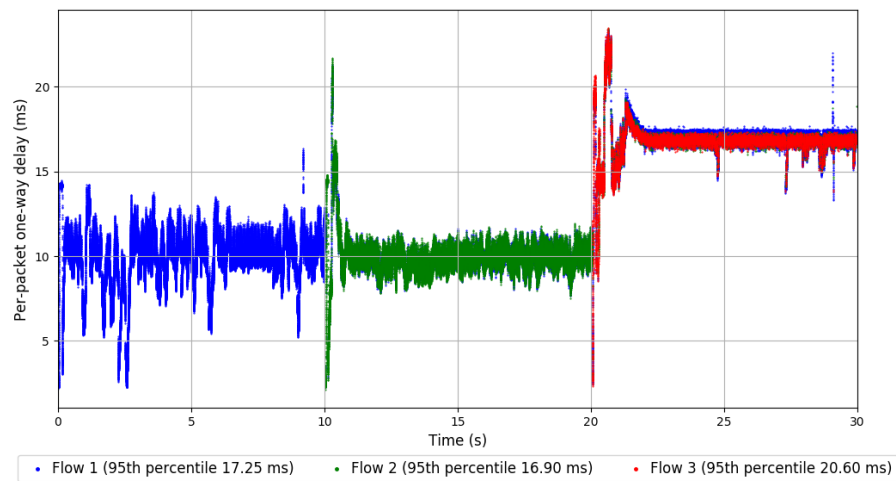
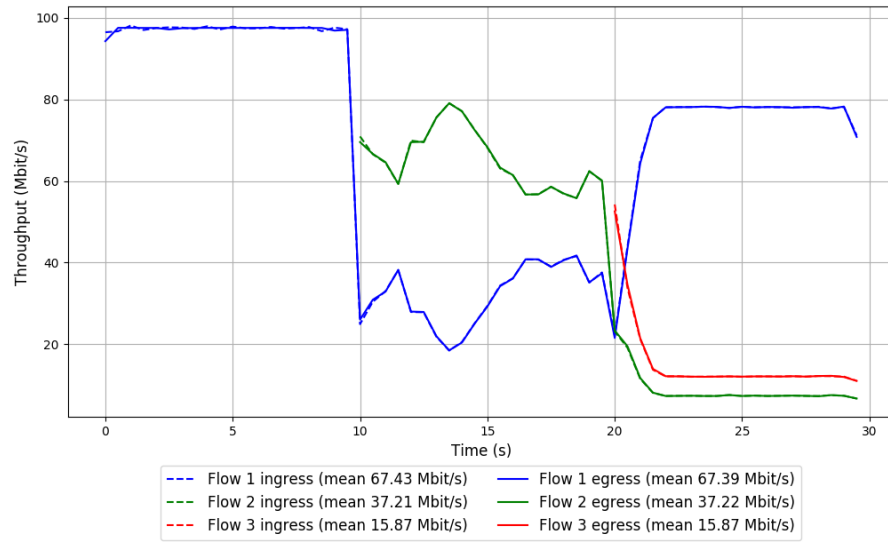
-- Flow 3:

Average throughput: 15.87 Mbit/s

95th percentile per-packet one-way delay: 20.596 ms

Loss rate: 0.14%

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

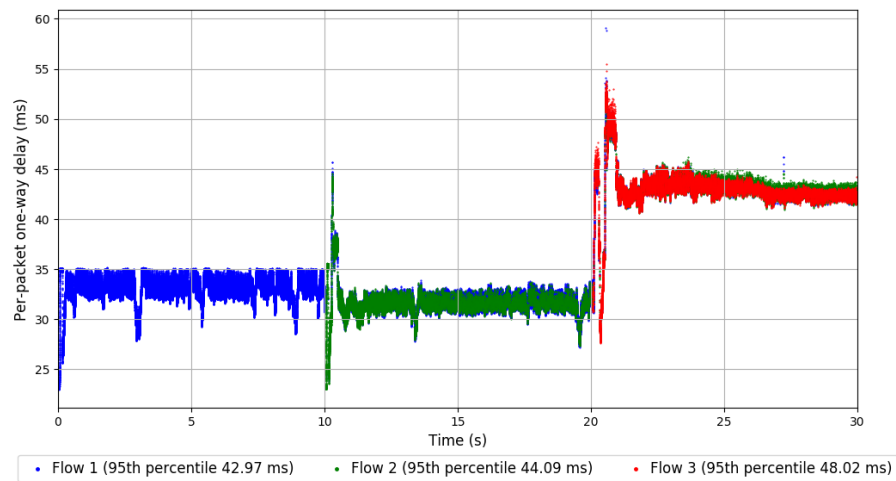
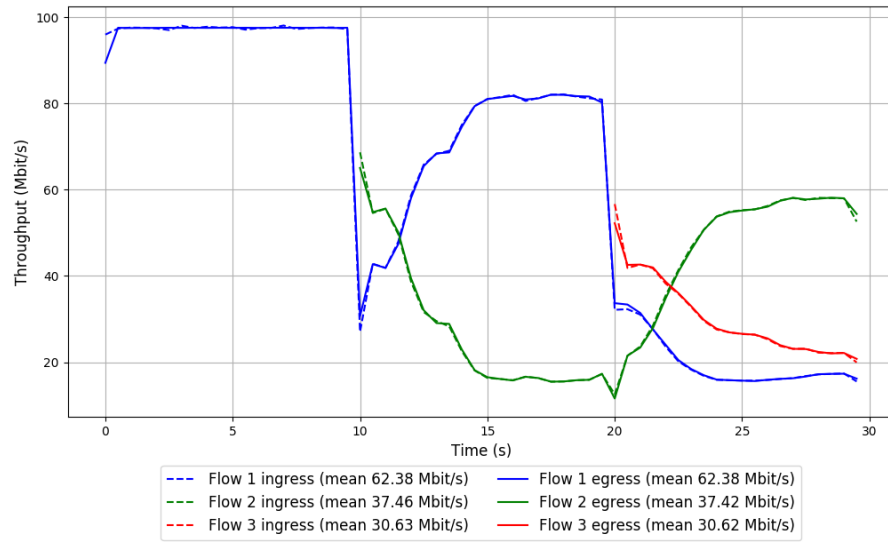


Run 8: Statistics of TCP BBR

Start at: 2018-02-04 20:04:22  
End at: 2018-02-04 20:04:52  
Local clock offset: 0.019 ms  
Remote clock offset: -18.183 ms

# Below is generated by plot.py at 2018-02-05 00:17:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 43.867 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 62.38 Mbit/s  
95th percentile per-packet one-way delay: 42.971 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 37.42 Mbit/s  
95th percentile per-packet one-way delay: 44.086 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 30.62 Mbit/s  
95th percentile per-packet one-way delay: 48.021 ms  
Loss rate: 0.19%

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



Run 9: Statistics of TCP BBR

Start at: 2018-02-04 20:24:52

End at: 2018-02-04 20:25:22

Local clock offset: 0.056 ms

Remote clock offset: 2.364 ms

# Below is generated by plot.py at 2018-02-05 00:19:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 24.387 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 61.40 Mbit/s

95th percentile per-packet one-way delay: 23.706 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 37.50 Mbit/s

95th percentile per-packet one-way delay: 24.651 ms

Loss rate: 0.20%

-- Flow 3:

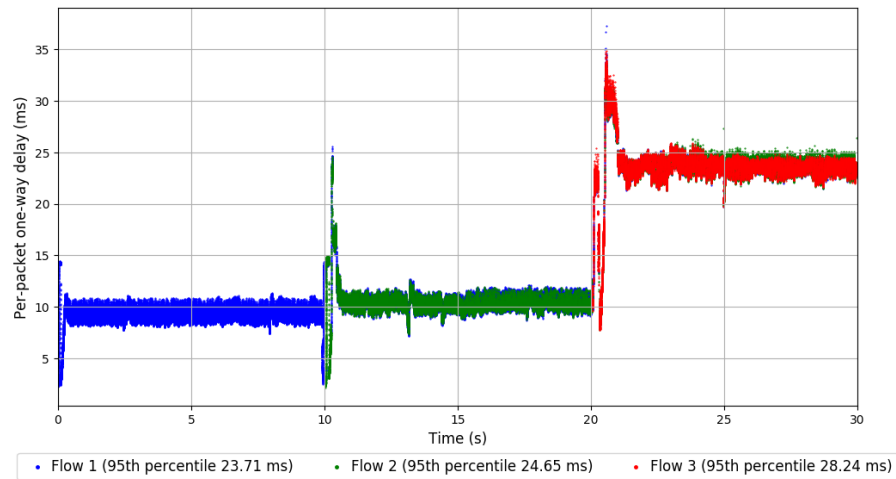
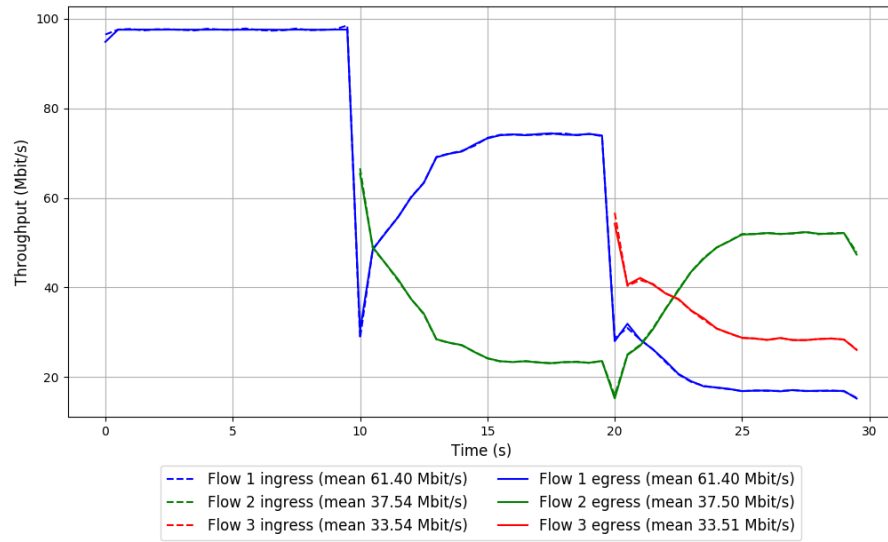
Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 28.242 ms

Loss rate: 0.22%



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



Run 10: Statistics of TCP BBR

Start at: 2018-02-04 20:45:17

End at: 2018-02-04 20:45:47

Local clock offset: 0.083 ms

Remote clock offset: 2.22 ms

# Below is generated by plot.py at 2018-02-05 00:19:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 17.082 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 17.119 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 41.37 Mbit/s

95th percentile per-packet one-way delay: 16.709 ms

Loss rate: 0.02%

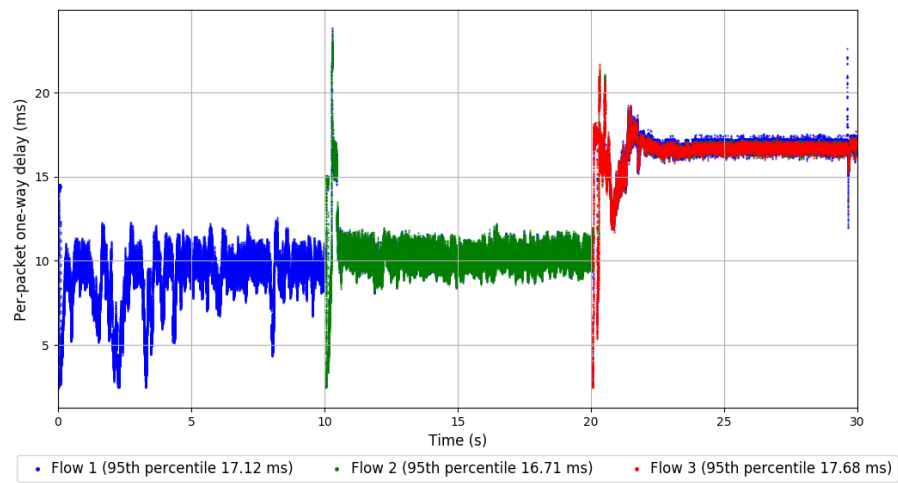
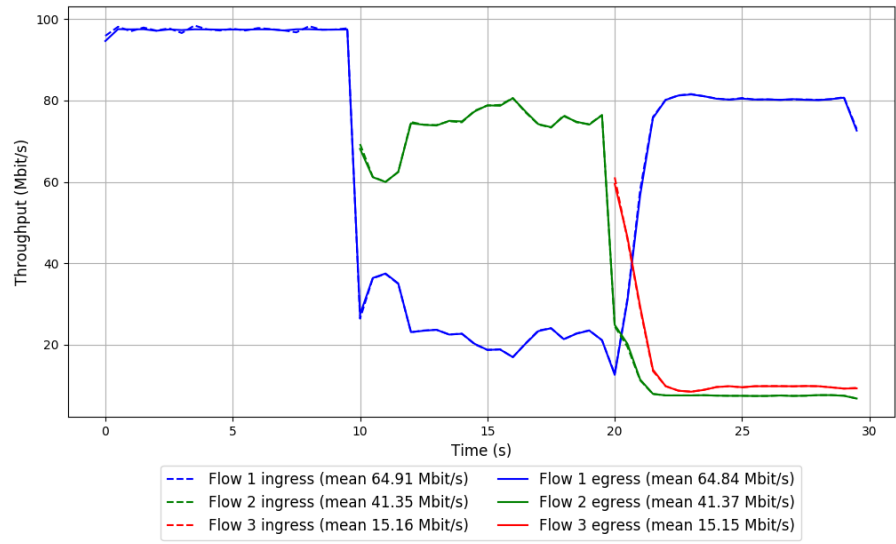
-- Flow 3:

Average throughput: 15.15 Mbit/s

95th percentile per-packet one-way delay: 17.676 ms

Loss rate: 0.21%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-04 17:39:09

End at: 2018-02-04 17:39:39

Local clock offset: 0.029 ms

Remote clock offset: -0.541 ms

Run 1: Report of TCP Cubic — Data Link

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Run 2: Statistics of TCP Cubic

Start at: 2018-02-04 17:59:38

End at: 2018-02-04 18:00:08

Local clock offset: 0.035 ms

Remote clock offset: -0.193 ms

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

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Run 3: Statistics of TCP Cubic

Start at: 2018-02-04 18:20:04

End at: 2018-02-04 18:20:34

Local clock offset: 0.072 ms

Remote clock offset: 0.132 ms



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

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Run 4: Statistics of TCP Cubic

Start at: 2018-02-04 18:40:27

End at: 2018-02-04 18:40:57

Local clock offset: -0.016 ms

Remote clock offset: 0.942 ms

Run 4: Report of TCP Cubic — Data Link

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Figure is missing

Run 5: Statistics of TCP Cubic

Start at: 2018-02-04 19:00:51

End at: 2018-02-04 19:01:21

Local clock offset: 0.005 ms

Remote clock offset: 2.475 ms

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

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Run 6: Statistics of TCP Cubic

Start at: 2018-02-04 19:21:18

End at: 2018-02-04 19:21:48

Local clock offset: 0.028 ms

Remote clock offset: -6.69 ms

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

Figure is missing

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Run 7: Statistics of TCP Cubic

Start at: 2018-02-04 19:41:42

End at: 2018-02-04 19:42:12

Local clock offset: 0.036 ms

Remote clock offset: 2.99 ms



Run 7: Report of TCP Cubic — Data Link

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Run 8: Statistics of TCP Cubic

Start at: 2018-02-04 20:02:09

End at: 2018-02-04 20:02:39

Local clock offset: 0.03 ms

Remote clock offset: 2.516 ms

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

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Run 9: Statistics of TCP Cubic

Start at: 2018-02-04 20:22:36

End at: 2018-02-04 20:23:06

Local clock offset: 0.077 ms

Remote clock offset: 2.374 ms

# Below is generated by plot.py at 2018-02-05 00:19:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 36.288 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 59.77 Mbit/s

95th percentile per-packet one-way delay: 35.340 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 36.275 ms

Loss rate: 0.69%

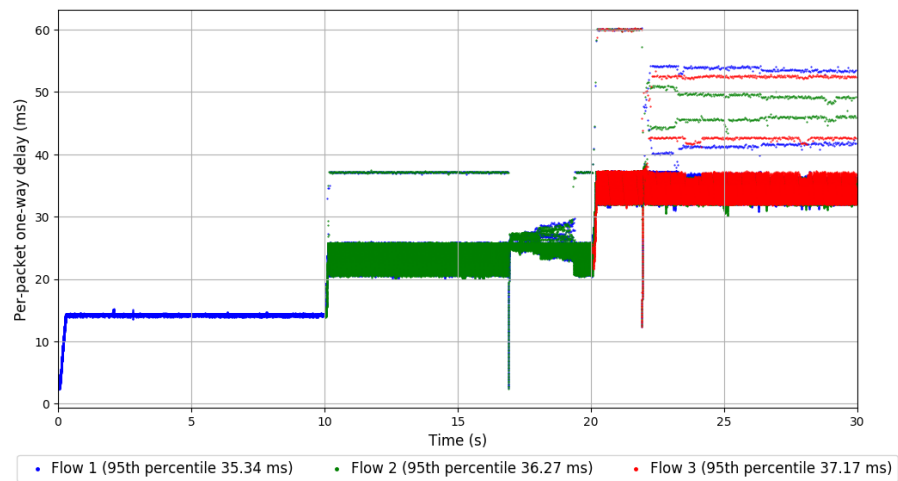
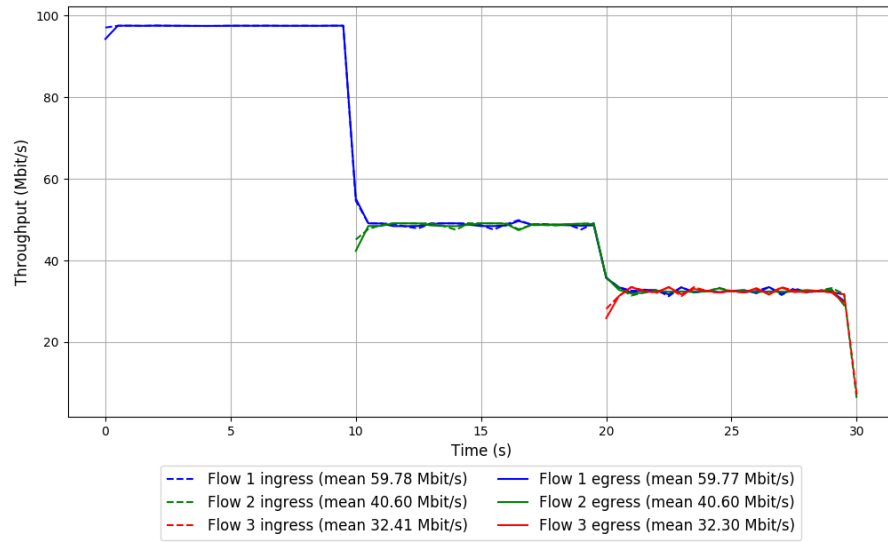
-- Flow 3:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 37.172 ms

Loss rate: 1.75%

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



Run 10: Statistics of TCP Cubic

Start at: 2018-02-04 20:43:04

End at: 2018-02-04 20:43:34

Local clock offset: 0.047 ms

Remote clock offset: 2.278 ms

Run 10: Report of TCP Cubic — Data Link

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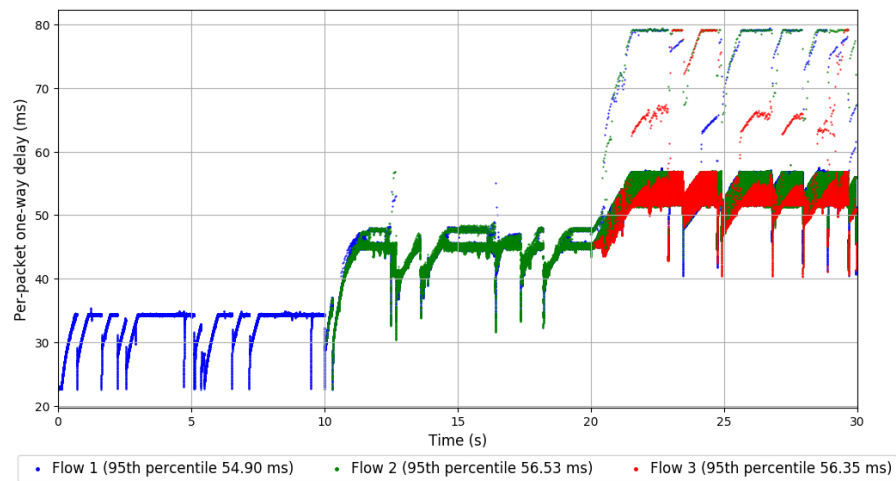
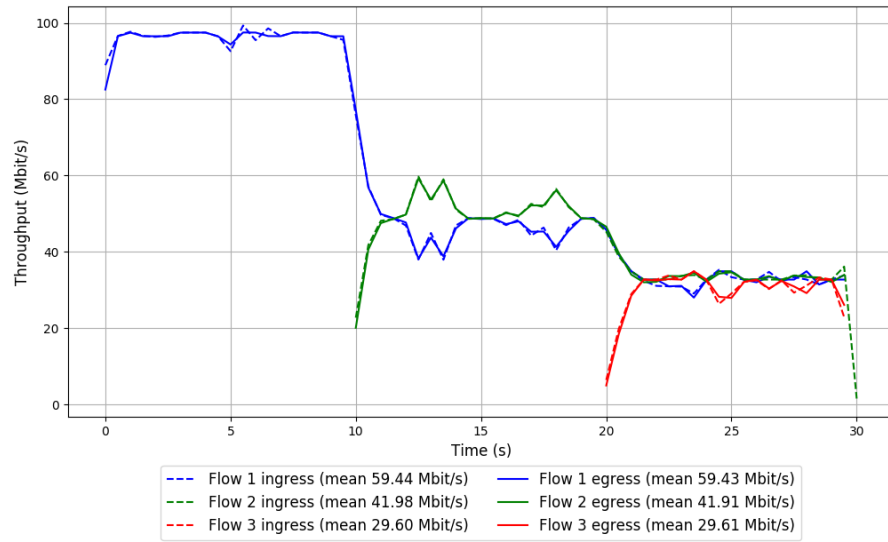
Run 1: Statistics of LEDBAT

Start at: 2018-02-04 17:32:15  
End at: 2018-02-04 17:32:45  
Local clock offset: -0.005 ms  
Remote clock offset: -21.072 ms

# Below is generated by plot.py at 2018-02-05 00:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.08 Mbit/s  
95th percentile per-packet one-way delay: 55.796 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 59.43 Mbit/s  
95th percentile per-packet one-way delay: 54.895 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 41.91 Mbit/s  
95th percentile per-packet one-way delay: 56.530 ms  
Loss rate: 0.48%  
-- Flow 3:  
Average throughput: 29.61 Mbit/s  
95th percentile per-packet one-way delay: 56.354 ms  
Loss rate: 0.22%



## Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-04 17:52:46

End at: 2018-02-04 17:53:16

Local clock offset: 0.021 ms

Remote clock offset: -0.238 ms

Run 2: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of LEDBAT

Start at: 2018-02-04 18:13:10

End at: 2018-02-04 18:13:40

Local clock offset: -0.033 ms

Remote clock offset: 0.033 ms

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

Figure is missing

Figure is missing

Run 4: Statistics of LEDBAT

Start at: 2018-02-04 18:33:35

End at: 2018-02-04 18:34:05

Local clock offset: 0.042 ms

Remote clock offset: 0.392 ms

Run 4: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of LEDBAT

Start at: 2018-02-04 18:54:02

End at: 2018-02-04 18:54:32

Local clock offset: 0.041 ms

Remote clock offset: 2.364 ms



Run 5: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of LEDBAT

Start at: 2018-02-04 19:14:26

End at: 2018-02-04 19:14:56

Local clock offset: 0.038 ms

Remote clock offset: 2.98 ms

Run 6: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of LEDBAT

Start at: 2018-02-04 19:34:52

End at: 2018-02-04 19:35:22

Local clock offset: 0.049 ms

Remote clock offset: -17.027 ms

Run 7: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of LEDBAT

Start at: 2018-02-04 19:55:17

End at: 2018-02-04 19:55:47

Local clock offset: -0.057 ms

Remote clock offset: 2.641 ms

Run 8: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of LEDBAT

Start at: 2018-02-04 20:15:46

End at: 2018-02-04 20:16:16

Local clock offset: 0.074 ms

Remote clock offset: 2.38 ms



Run 9: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of LEDBAT

Start at: 2018-02-04 20:36:11

End at: 2018-02-04 20:36:41

Local clock offset: 0.013 ms

Remote clock offset: 2.404 ms

Run 10: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC

Start at: 2018-02-04 17:40:16

End at: 2018-02-04 17:40:46

Local clock offset: -0.066 ms

Remote clock offset: -2.78 ms

# Below is generated by plot.py at 2018-02-05 00:19:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.33 Mbit/s

95th percentile per-packet one-way delay: 14.478 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 76.50 Mbit/s

95th percentile per-packet one-way delay: 12.993 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 9.16 Mbit/s

95th percentile per-packet one-way delay: 18.035 ms

Loss rate: 0.03%

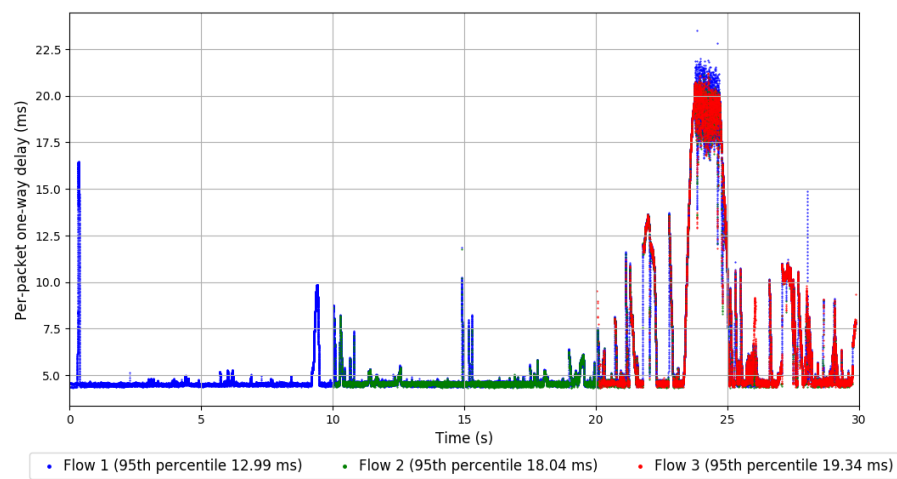
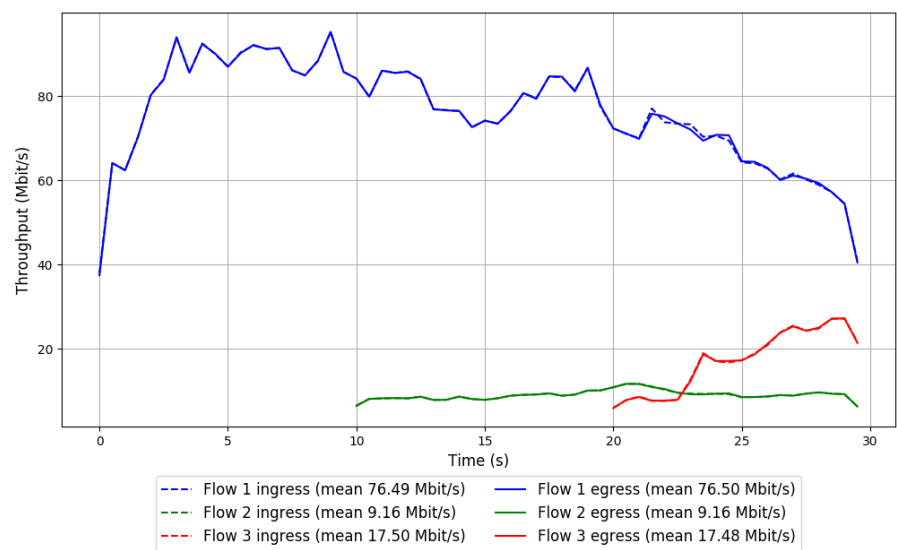
-- Flow 3:

Average throughput: 17.48 Mbit/s

95th percentile per-packet one-way delay: 19.343 ms

Loss rate: 0.14%

Run 1: Report of PCC — Data Link

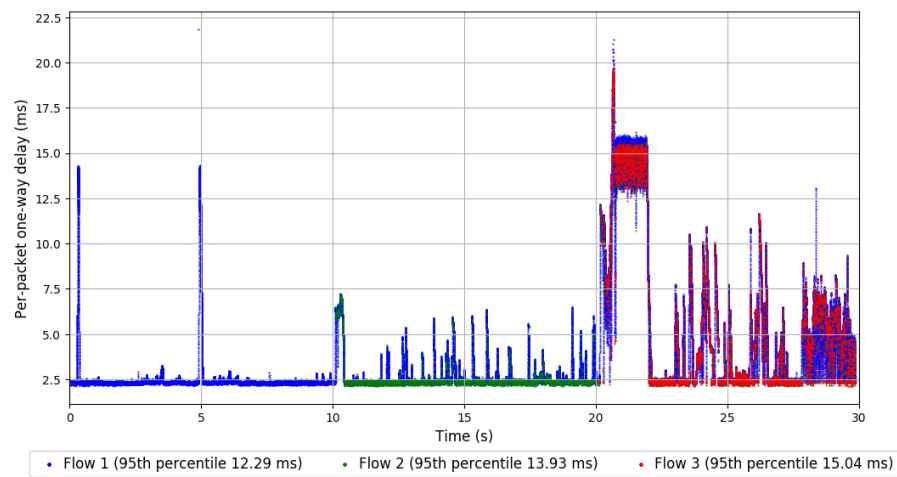
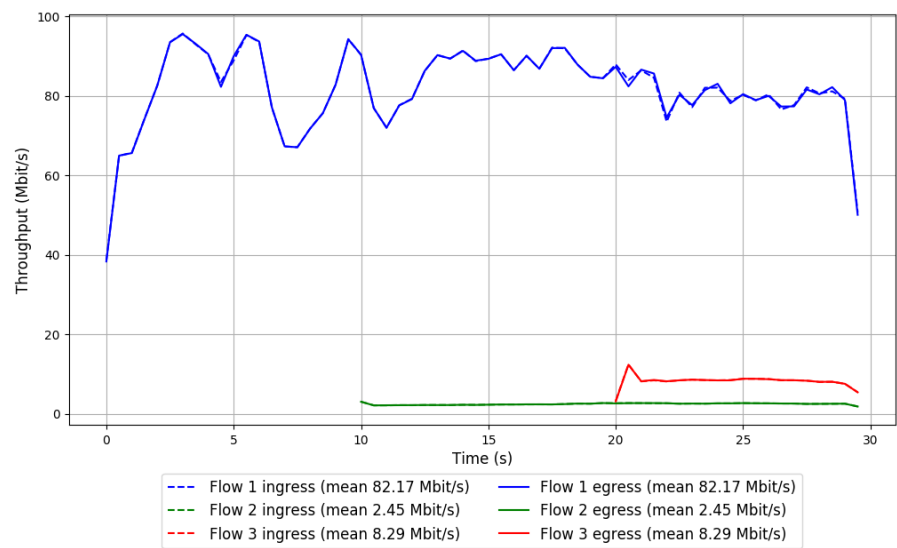


Run 2: Statistics of PCC

Start at: 2018-02-04 18:00:44  
End at: 2018-02-04 18:01:14  
Local clock offset: 0.052 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-02-05 00:19:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.52 Mbit/s  
95th percentile per-packet one-way delay: 13.288 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 82.17 Mbit/s  
95th percentile per-packet one-way delay: 12.290 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 2.45 Mbit/s  
95th percentile per-packet one-way delay: 13.926 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 8.29 Mbit/s  
95th percentile per-packet one-way delay: 15.040 ms  
Loss rate: 0.04%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-04 18:21:10

End at: 2018-02-04 18:21:40

Local clock offset: 0.065 ms

Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-02-05 00:19:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.65 Mbit/s

95th percentile per-packet one-way delay: 25.469 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 68.48 Mbit/s

95th percentile per-packet one-way delay: 24.111 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 31.96 Mbit/s

95th percentile per-packet one-way delay: 26.323 ms

Loss rate: 0.13%

-- Flow 3:

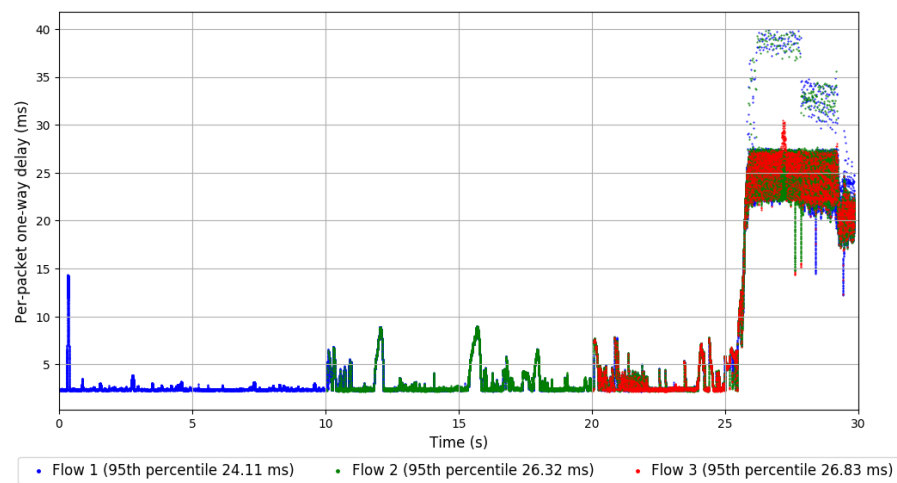
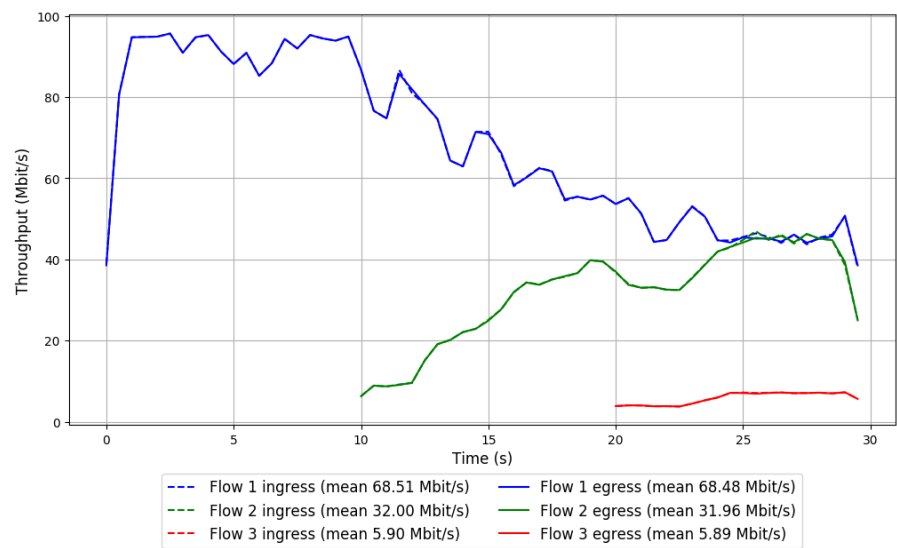
Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 26.834 ms

Loss rate: 0.31%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-04 18:41:34

End at: 2018-02-04 18:42:04

Local clock offset: 0.047 ms

Remote clock offset: 1.086 ms

# Below is generated by plot.py at 2018-02-05 00:19:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 10.767 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 67.29 Mbit/s

95th percentile per-packet one-way delay: 8.951 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 26.30 Mbit/s

95th percentile per-packet one-way delay: 16.304 ms

Loss rate: 0.11%

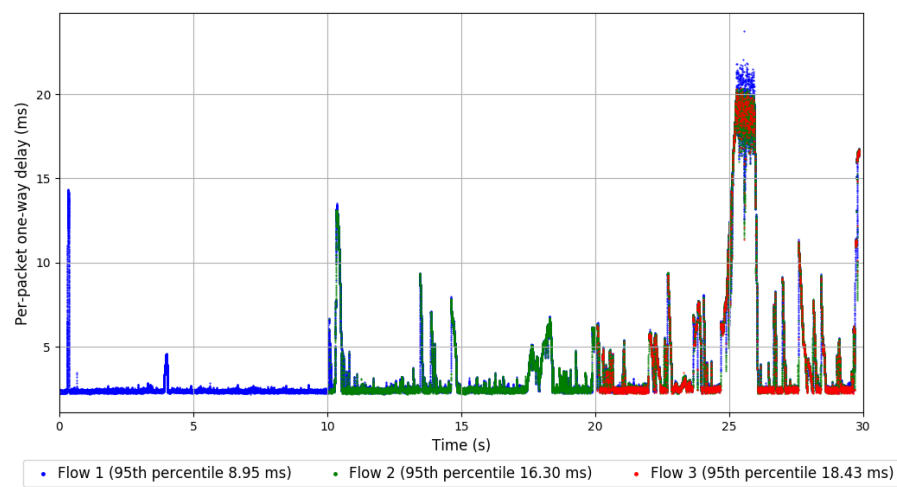
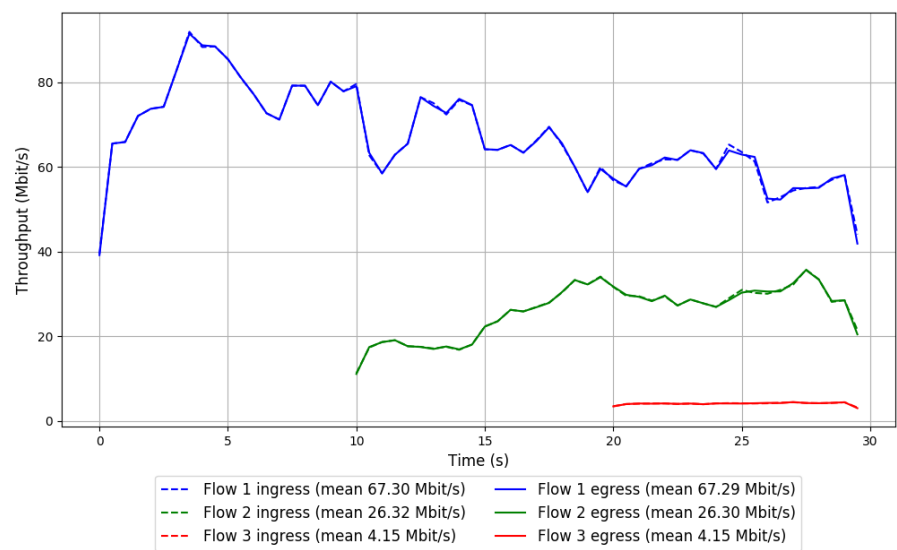
-- Flow 3:

Average throughput: 4.15 Mbit/s

95th percentile per-packet one-way delay: 18.430 ms

Loss rate: 0.21%

Run 4: Report of PCC — Data Link

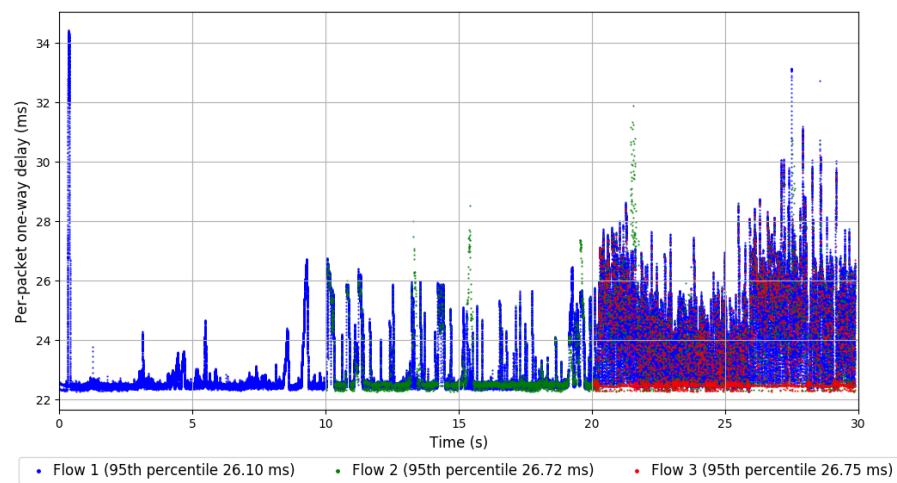
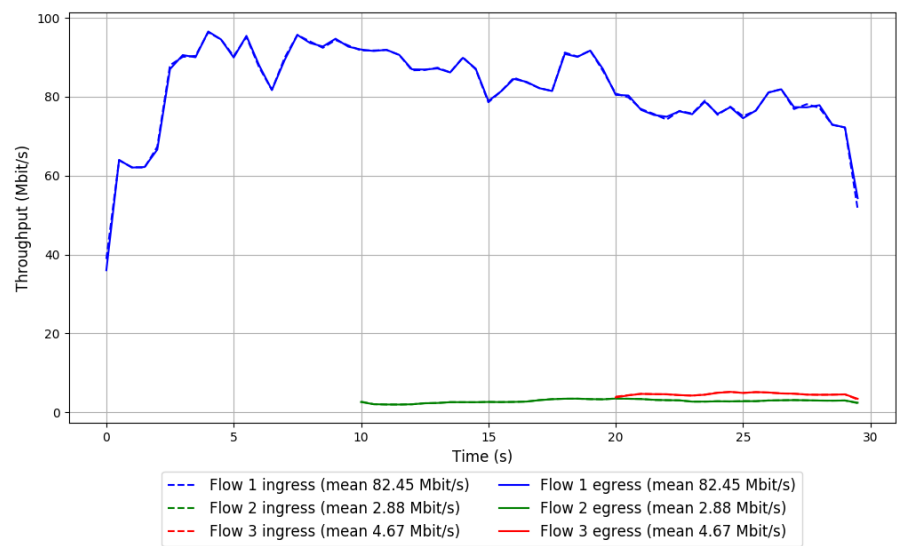


Run 5: Statistics of PCC

Start at: 2018-02-04 19:01:58  
End at: 2018-02-04 19:02:28  
Local clock offset: 0.065 ms  
Remote clock offset: -17.516 ms

# Below is generated by plot.py at 2018-02-05 00:20:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.90 Mbit/s  
95th percentile per-packet one-way delay: 26.144 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 82.45 Mbit/s  
95th percentile per-packet one-way delay: 26.104 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 2.88 Mbit/s  
95th percentile per-packet one-way delay: 26.722 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 4.67 Mbit/s  
95th percentile per-packet one-way delay: 26.754 ms  
Loss rate: 0.08%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-04 19:22:25

End at: 2018-02-04 19:22:55

Local clock offset: -0.014 ms

Remote clock offset: 3.197 ms

# Below is generated by plot.py at 2018-02-05 00:20:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 19.974 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 19.789 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 20.323 ms

Loss rate: 0.03%

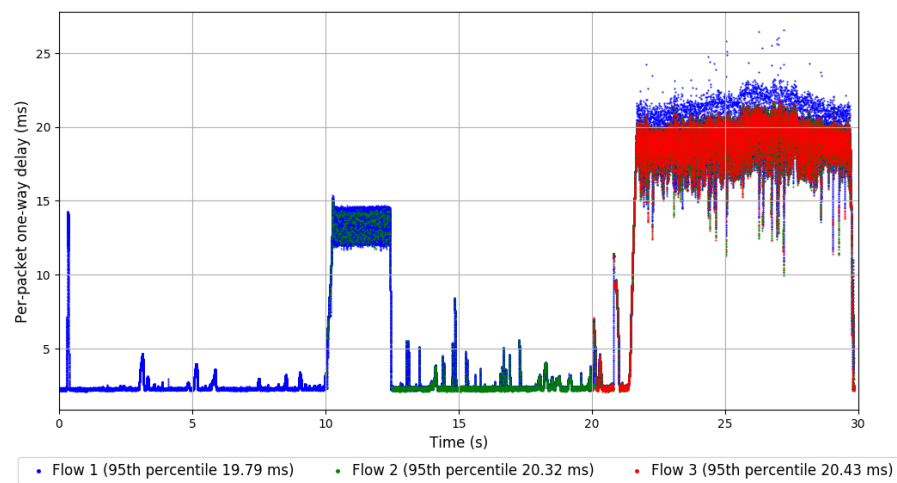
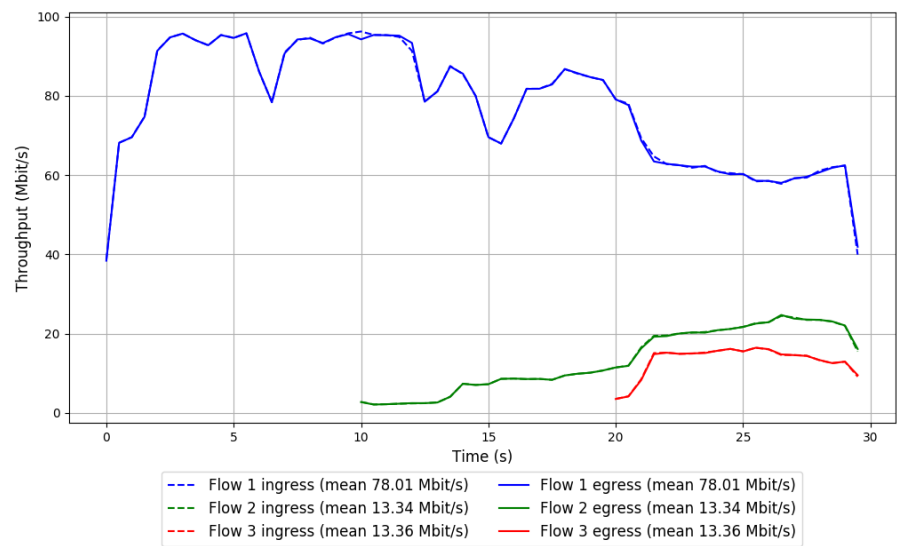
-- Flow 3:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 20.432 ms

Loss rate: 0.04%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-04 19:42:49

End at: 2018-02-04 19:43:19

Local clock offset: 0.041 ms

Remote clock offset: 2.948 ms

# Below is generated by plot.py at 2018-02-05 00:20:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.74 Mbit/s

95th percentile per-packet one-way delay: 21.572 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 67.36 Mbit/s

95th percentile per-packet one-way delay: 21.025 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 25.43 Mbit/s

95th percentile per-packet one-way delay: 22.003 ms

Loss rate: 0.03%

-- Flow 3:

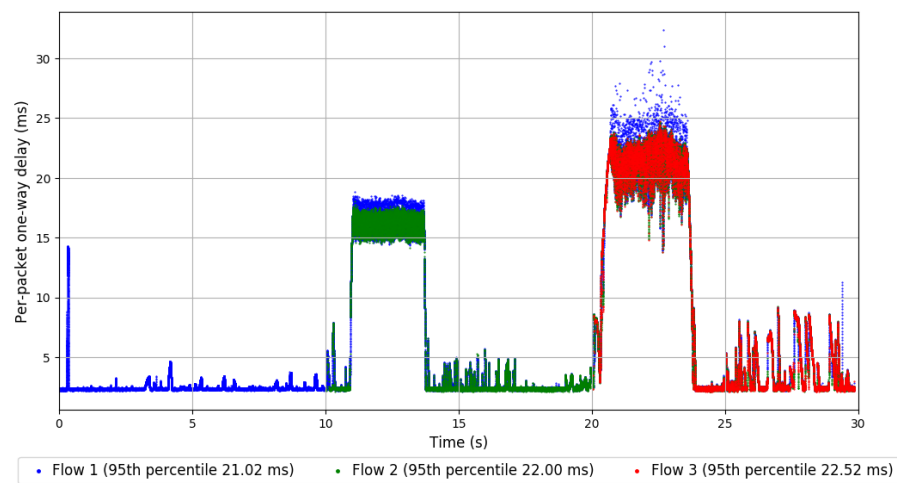
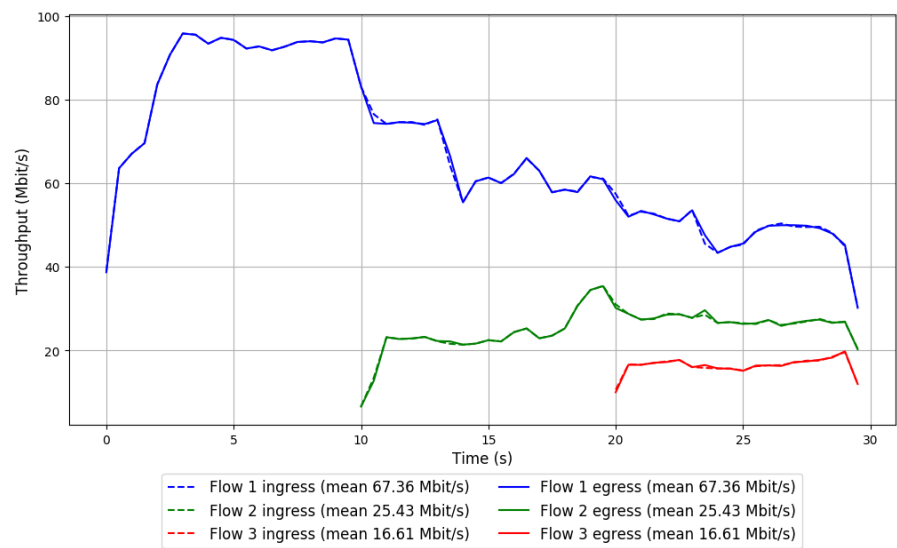
Average throughput: 16.61 Mbit/s

95th percentile per-packet one-way delay: 22.521 ms

Loss rate: 0.04%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-04 20:03:15

End at: 2018-02-04 20:03:45

Local clock offset: 0.002 ms

Remote clock offset: 2.436 ms

# Below is generated by plot.py at 2018-02-05 00:20:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.31 Mbit/s

95th percentile per-packet one-way delay: 22.045 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 64.19 Mbit/s

95th percentile per-packet one-way delay: 20.291 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 5.37 Mbit/s

95th percentile per-packet one-way delay: 22.574 ms

Loss rate: 0.09%

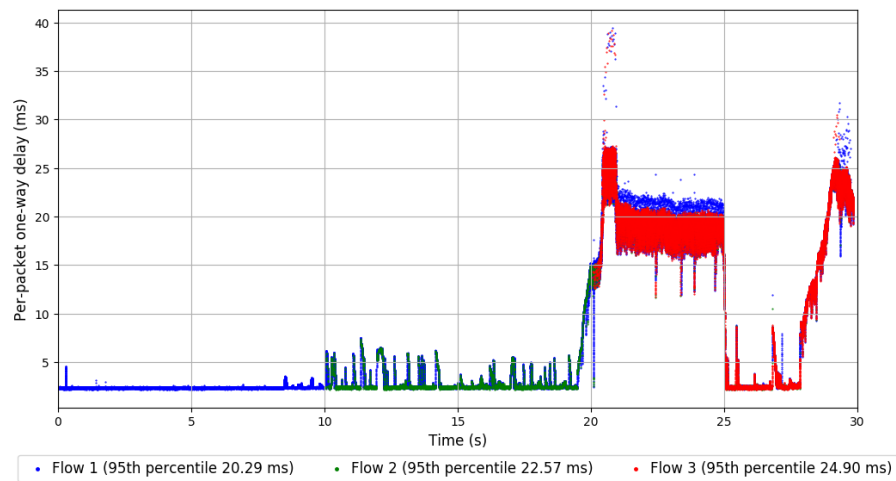
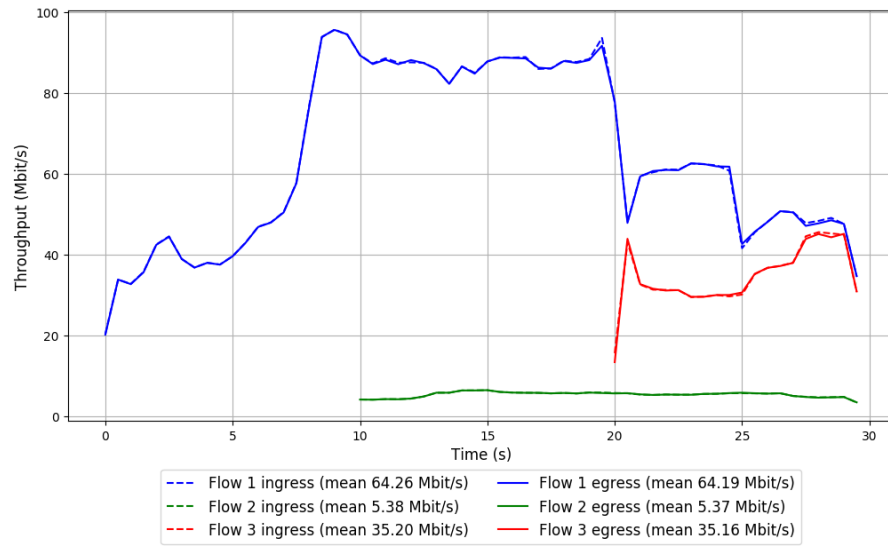
-- Flow 3:

Average throughput: 35.16 Mbit/s

95th percentile per-packet one-way delay: 24.902 ms

Loss rate: 0.29%

## Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-04 20:23:45

End at: 2018-02-04 20:24:15

Local clock offset: -0.008 ms

Remote clock offset: 2.315 ms

# Below is generated by plot.py at 2018-02-05 00:20:43

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.66 Mbit/s

95th percentile per-packet one-way delay: 14.205 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 80.55 Mbit/s

95th percentile per-packet one-way delay: 13.890 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 13.38 Mbit/s

95th percentile per-packet one-way delay: 15.509 ms

Loss rate: 0.03%

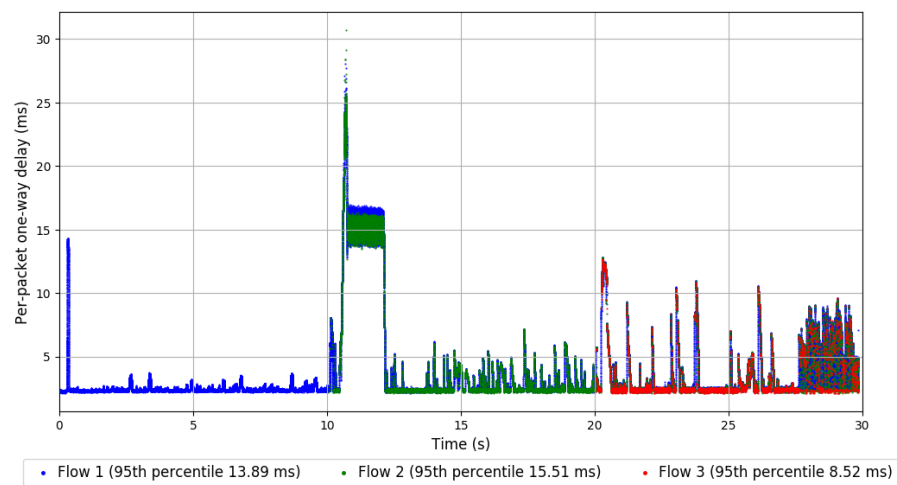
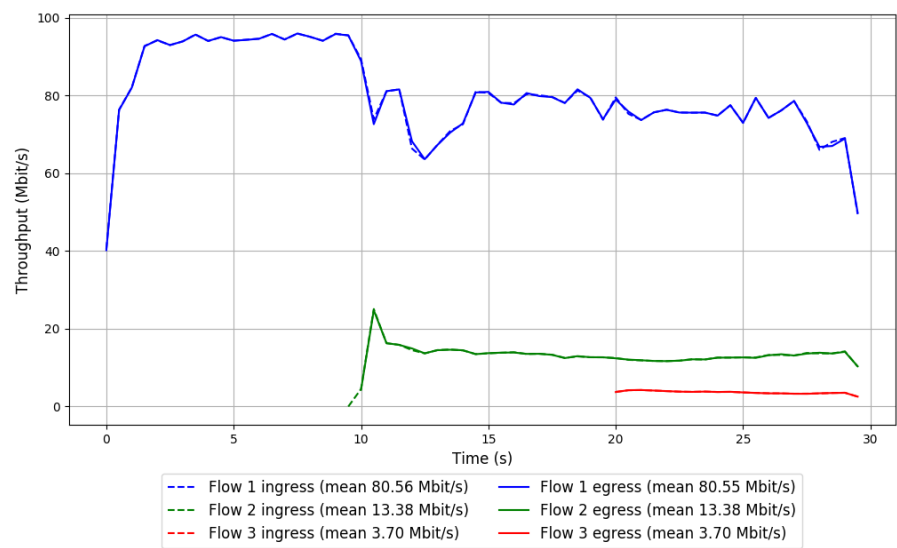
-- Flow 3:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 8.523 ms

Loss rate: 0.03%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-04 20:44:10

End at: 2018-02-04 20:44:40

Local clock offset: 0.072 ms

Remote clock offset: 2.391 ms

# Below is generated by plot.py at 2018-02-05 00:20:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.89 Mbit/s

95th percentile per-packet one-way delay: 17.110 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 16.894 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 9.03 Mbit/s

95th percentile per-packet one-way delay: 17.387 ms

Loss rate: 0.03%

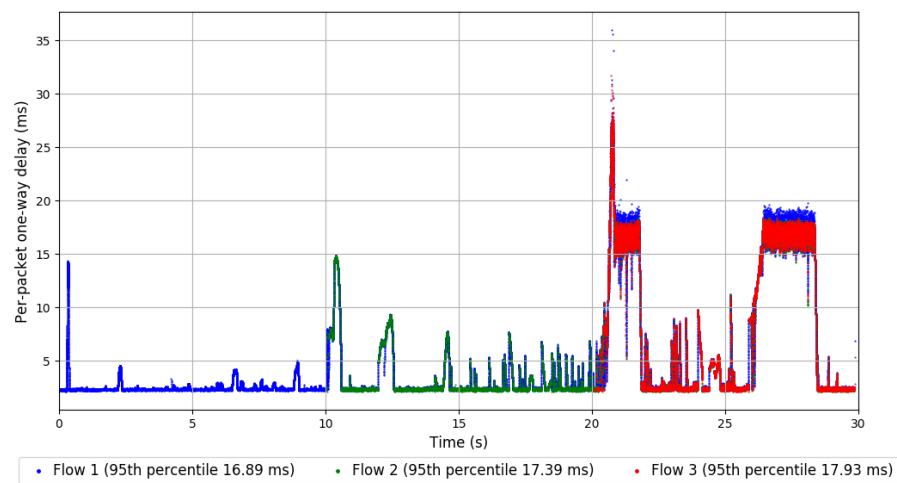
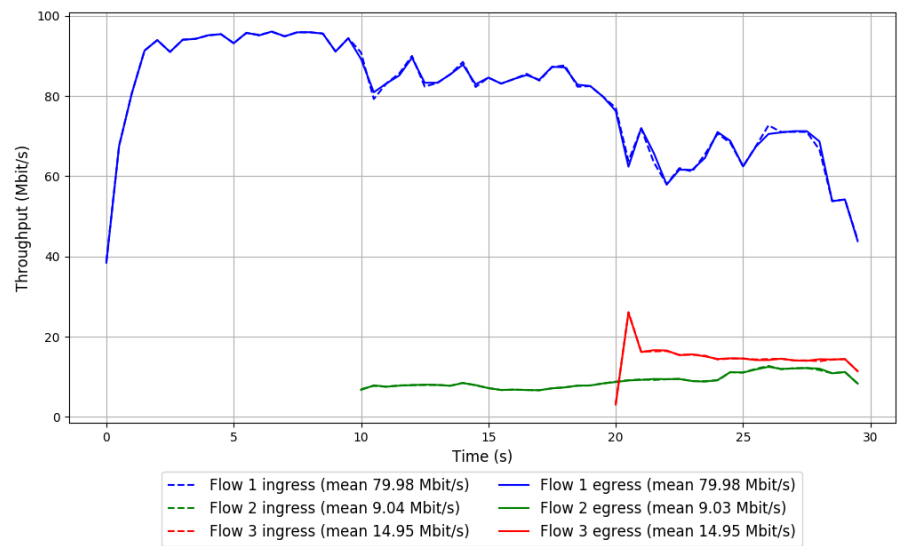
-- Flow 3:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 17.927 ms

Loss rate: 0.04%

Run 10: Report of PCC — Data Link



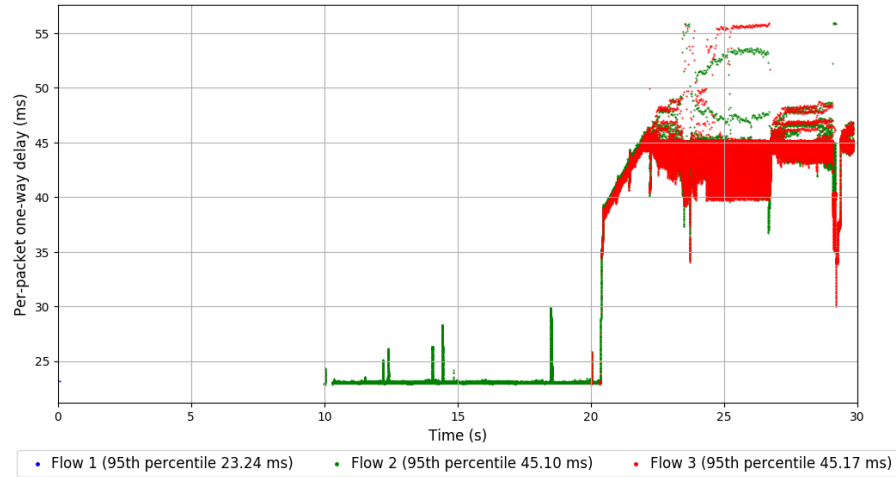
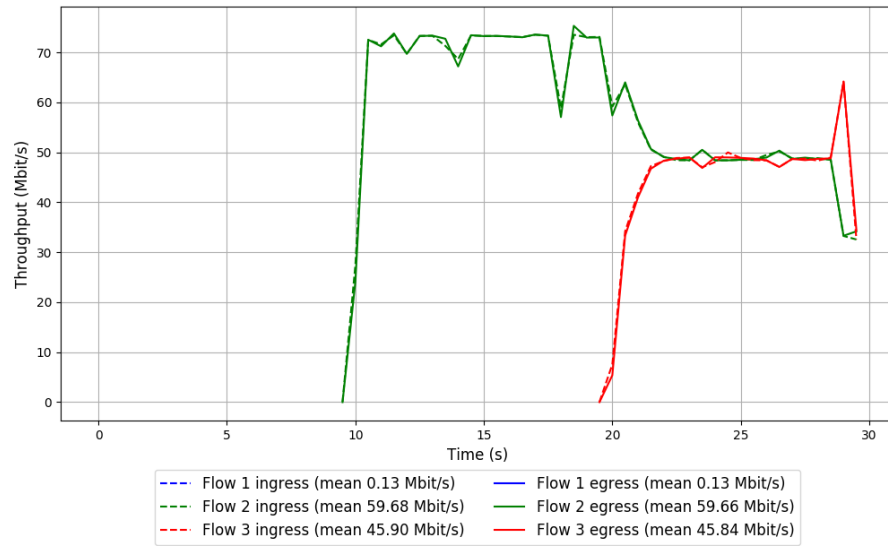
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-04 17:36:54  
End at: 2018-02-04 17:37:24  
Local clock offset: 0.017 ms  
Remote clock offset: -21.241 ms

# Below is generated by plot.py at 2018-02-05 00:20:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.87 Mbit/s  
95th percentile per-packet one-way delay: 45.123 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 23.244 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 59.66 Mbit/s  
95th percentile per-packet one-way delay: 45.100 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 45.84 Mbit/s  
95th percentile per-packet one-way delay: 45.174 ms  
Loss rate: 0.28%



# Run 1: Report of QUIC Cubic — Data Link

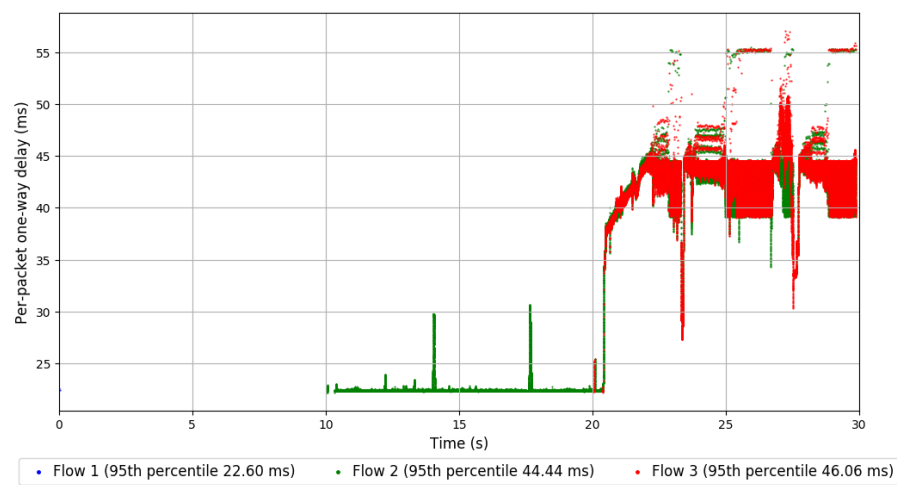
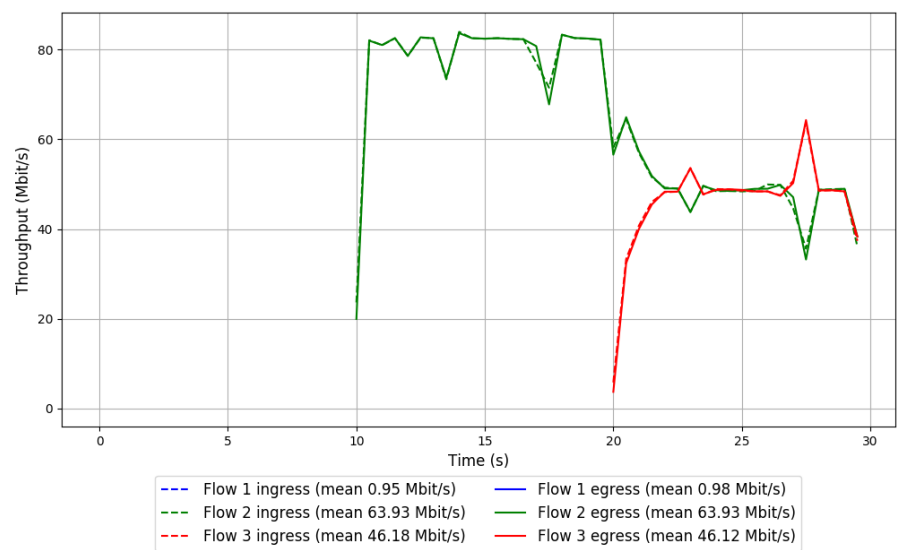


Run 2: Statistics of QUIC Cubic

Start at: 2018-02-04 17:57:22  
End at: 2018-02-04 17:57:52  
Local clock offset: 0.054 ms  
Remote clock offset: -20.164 ms

# Below is generated by plot.py at 2018-02-05 00:20:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.72 Mbit/s  
95th percentile per-packet one-way delay: 44.495 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 0.98 Mbit/s  
95th percentile per-packet one-way delay: 22.599 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 63.93 Mbit/s  
95th percentile per-packet one-way delay: 44.435 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 46.12 Mbit/s  
95th percentile per-packet one-way delay: 46.064 ms  
Loss rate: 0.36%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-04 18:17:46

End at: 2018-02-04 18:18:16

Local clock offset: 0.05 ms

Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2018-02-05 00:21:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 35.125 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 34.195 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 39.45 Mbit/s

95th percentile per-packet one-way delay: 35.182 ms

Loss rate: 0.05%

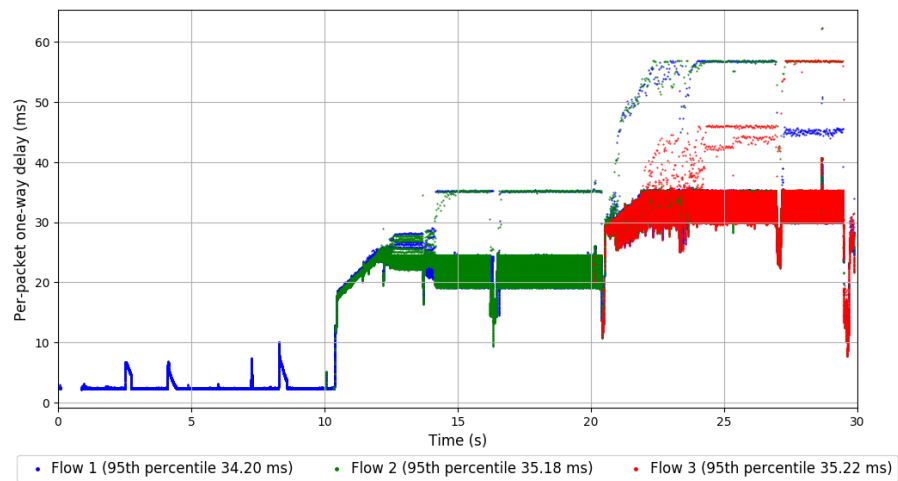
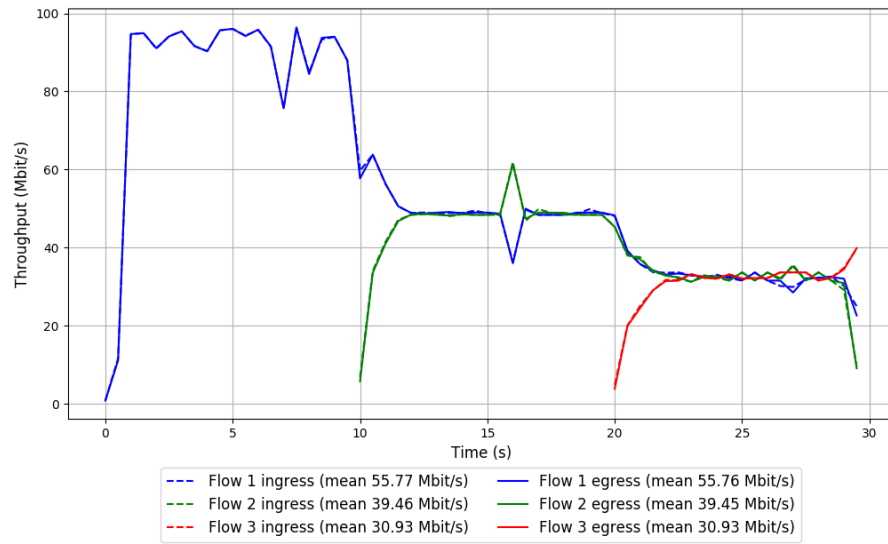
-- Flow 3:

Average throughput: 30.93 Mbit/s

95th percentile per-packet one-way delay: 35.224 ms

Loss rate: 0.39%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-04 18:38:11

End at: 2018-02-04 18:38:41

Local clock offset: 0.033 ms

Remote clock offset: 0.621 ms

# Below is generated by plot.py at 2018-02-05 00:21:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 35.278 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 34.932 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 38.66 Mbit/s

95th percentile per-packet one-way delay: 35.242 ms

Loss rate: 0.14%

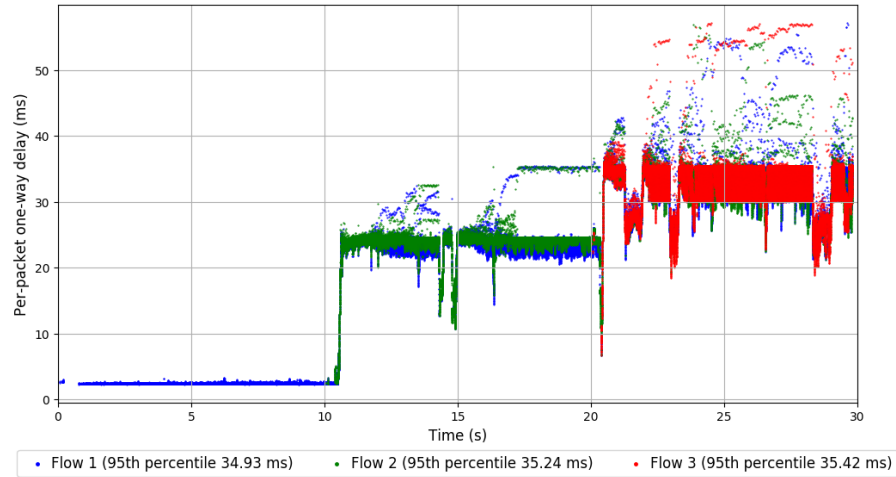
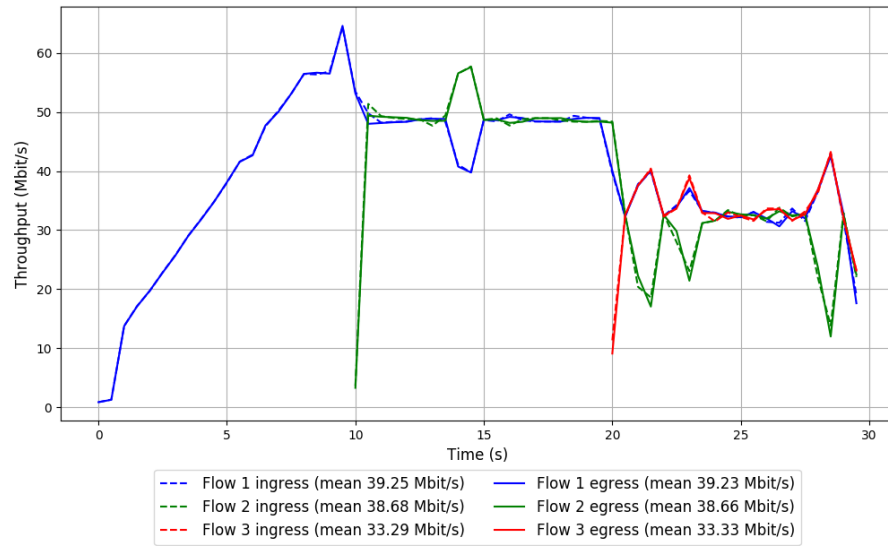
-- Flow 3:

Average throughput: 33.33 Mbit/s

95th percentile per-packet one-way delay: 35.421 ms

Loss rate: 0.33%

# Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-04 18:58:38

End at: 2018-02-04 18:59:08

Local clock offset: 0.034 ms

Remote clock offset: 2.486 ms

# Below is generated by plot.py at 2018-02-05 00:21:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 24.444 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 1.13 Mbit/s

95th percentile per-packet one-way delay: 2.489 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.02 Mbit/s

95th percentile per-packet one-way delay: 24.410 ms

Loss rate: 0.10%

-- Flow 3:

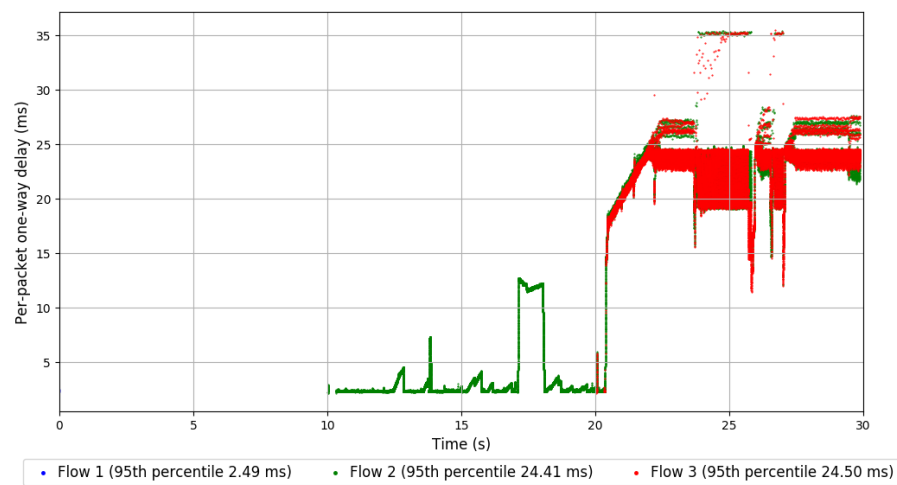
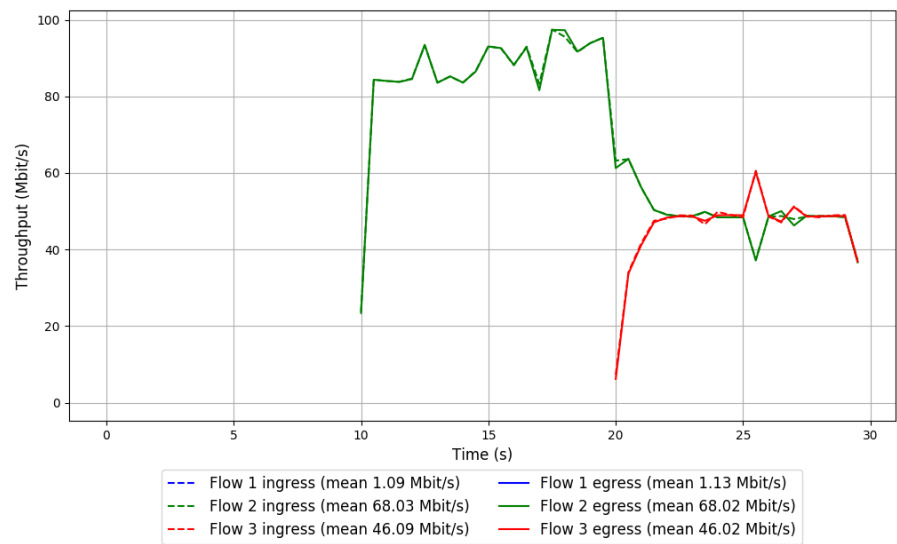
Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 24.503 ms

Loss rate: 0.27%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

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

End at: 2018-02-04 19:19:32

Local clock offset: 0.067 ms

Remote clock offset: 3.108 ms

# Below is generated by plot.py at 2018-02-05 00:21:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 24.437 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 2.566 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 24.402 ms

Loss rate: 0.08%

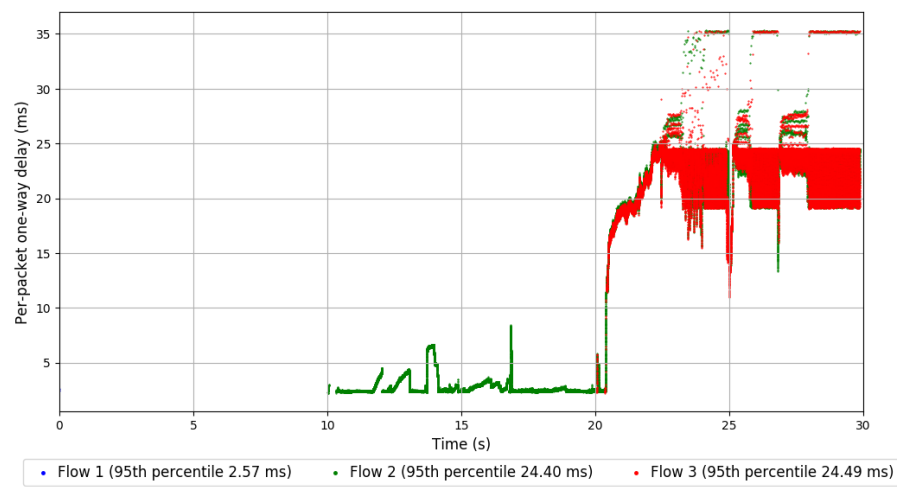
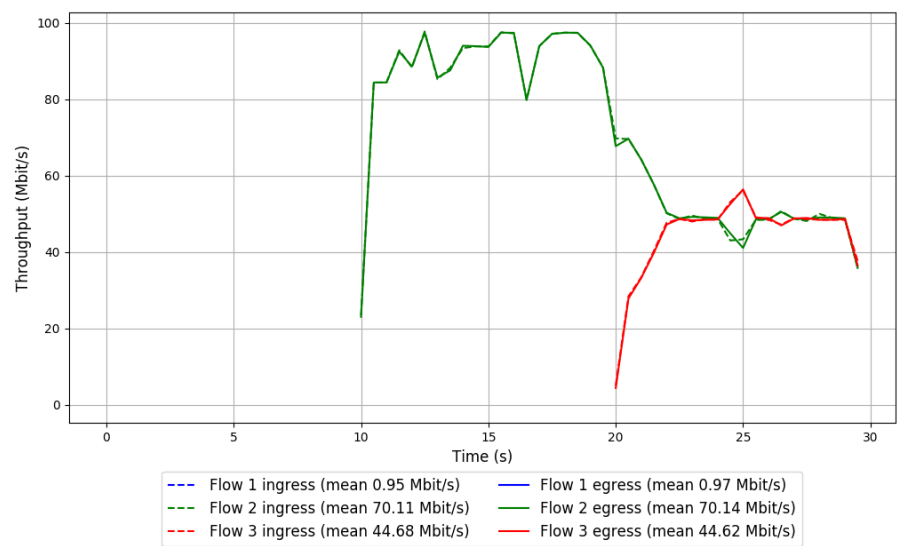
-- Flow 3:

Average throughput: 44.62 Mbit/s

95th percentile per-packet one-way delay: 24.486 ms

Loss rate: 0.35%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-04 19:39:29

End at: 2018-02-04 19:39:59

Local clock offset: -0.039 ms

Remote clock offset: 3.045 ms

# Below is generated by plot.py at 2018-02-05 00:21:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 61.86 Mbit/s

95th percentile per-packet one-way delay: 23.590 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 1.03 Mbit/s

95th percentile per-packet one-way delay: 2.596 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 74.50 Mbit/s

95th percentile per-packet one-way delay: 23.282 ms

Loss rate: 0.09%

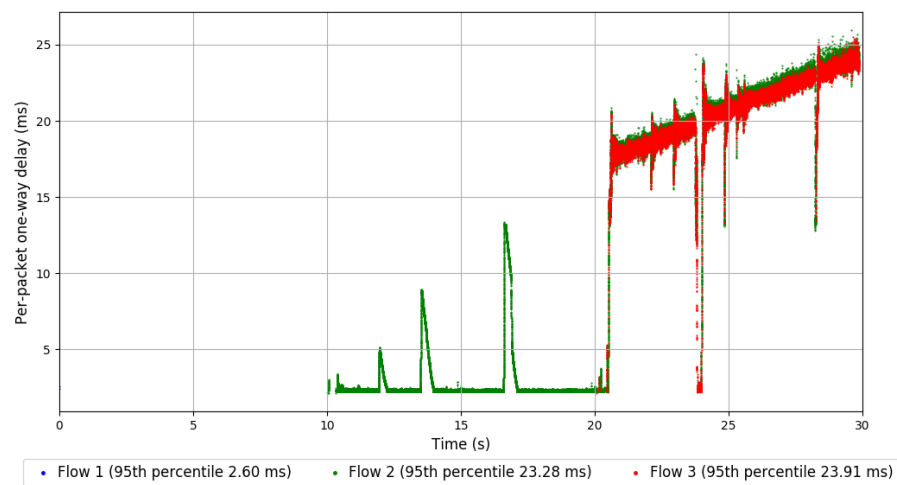
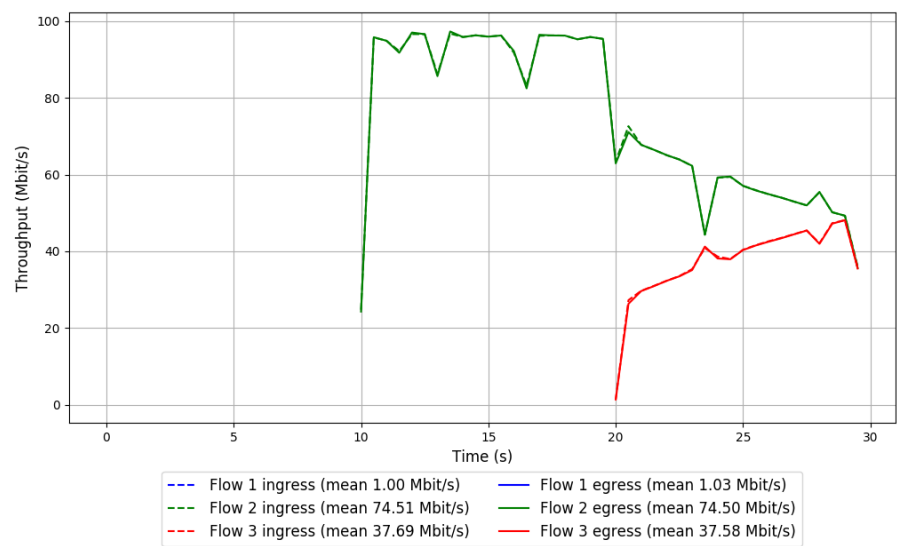
-- Flow 3:

Average throughput: 37.58 Mbit/s

95th percentile per-packet one-way delay: 23.908 ms

Loss rate: 0.34%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-04 19:59:53

End at: 2018-02-04 20:00:23

Local clock offset: 0.012 ms

Remote clock offset: 2.551 ms

# Below is generated by plot.py at 2018-02-05 00:21:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 59.46 Mbit/s

95th percentile per-packet one-way delay: 24.371 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 2.551 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 24.234 ms

Loss rate: 0.15%

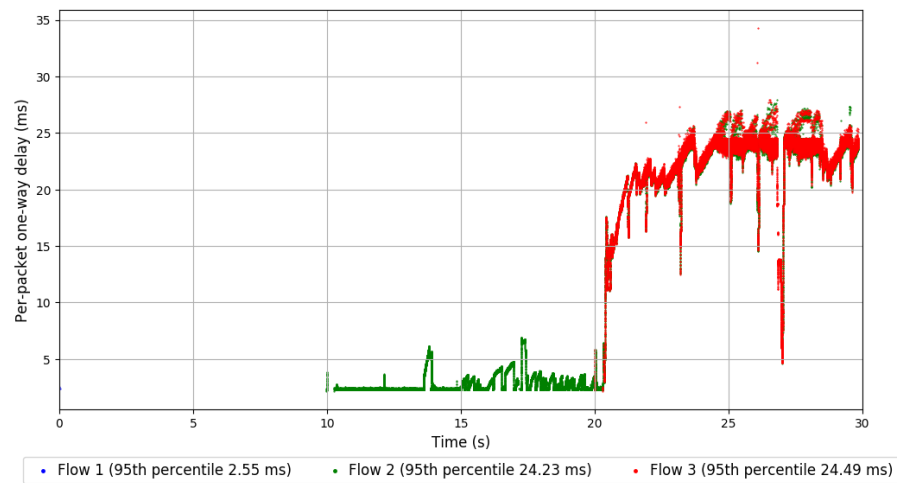
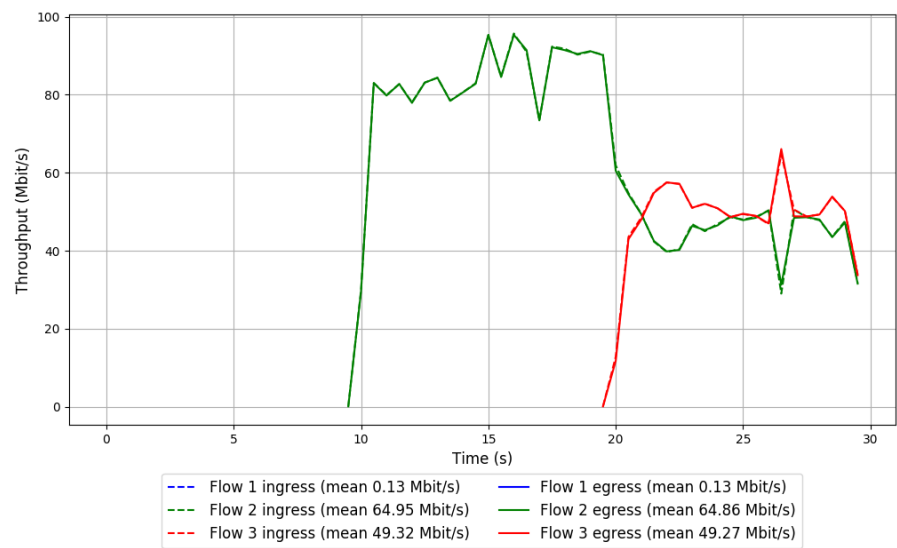
-- Flow 3:

Average throughput: 49.27 Mbit/s

95th percentile per-packet one-way delay: 24.487 ms

Loss rate: 0.26%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-04 20:20:22

End at: 2018-02-04 20:20:52

Local clock offset: 0.074 ms

Remote clock offset: 2.357 ms

# Below is generated by plot.py at 2018-02-05 00:21:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.97 Mbit/s

95th percentile per-packet one-way delay: 24.435 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 2.608 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 68.85 Mbit/s

95th percentile per-packet one-way delay: 24.406 ms

Loss rate: 0.08%

-- Flow 3:

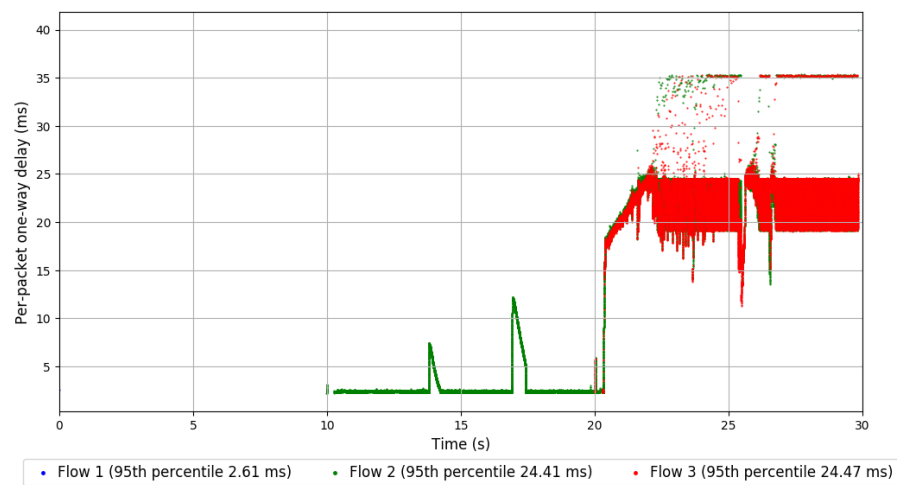
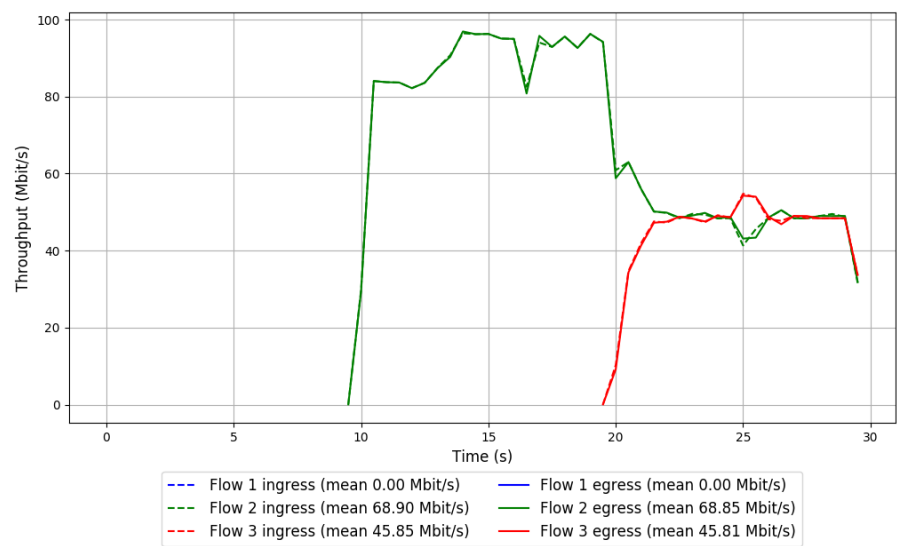
Average throughput: 45.81 Mbit/s

95th percentile per-packet one-way delay: 24.474 ms

Loss rate: 0.24%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-04 20:40:47

End at: 2018-02-04 20:41:17

Local clock offset: 0.043 ms

Remote clock offset: 2.375 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.00 Mbit/s

95th percentile per-packet one-way delay: 35.112 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 34.176 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 35.152 ms

Loss rate: 0.19%

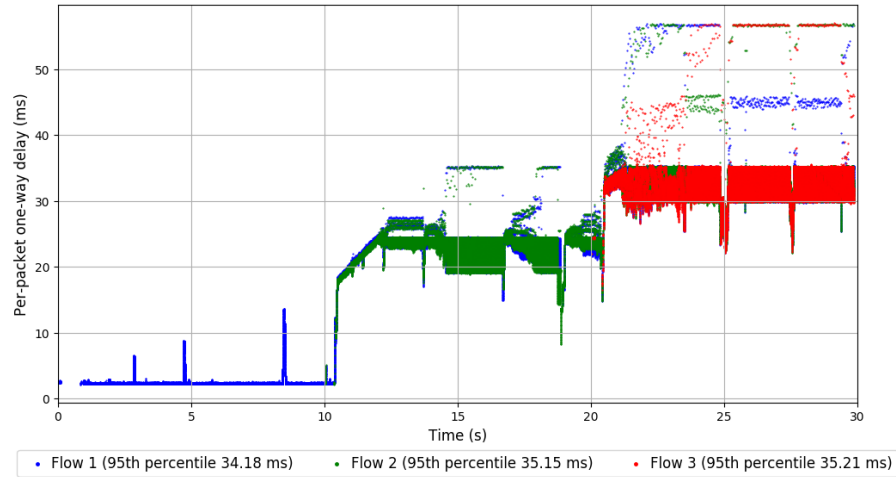
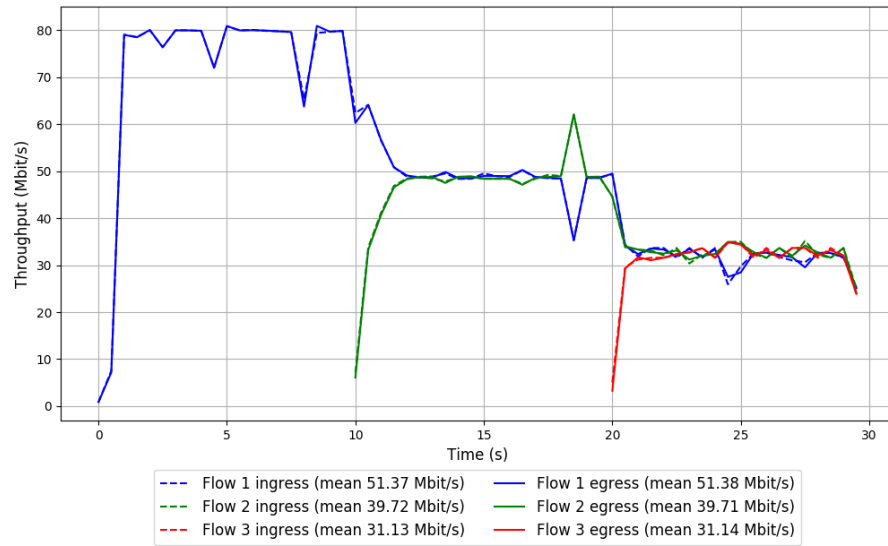
-- Flow 3:

Average throughput: 31.14 Mbit/s

95th percentile per-packet one-way delay: 35.213 ms

Loss rate: 0.35%

# Run 10: Report of QUIC Cubic — Data Link

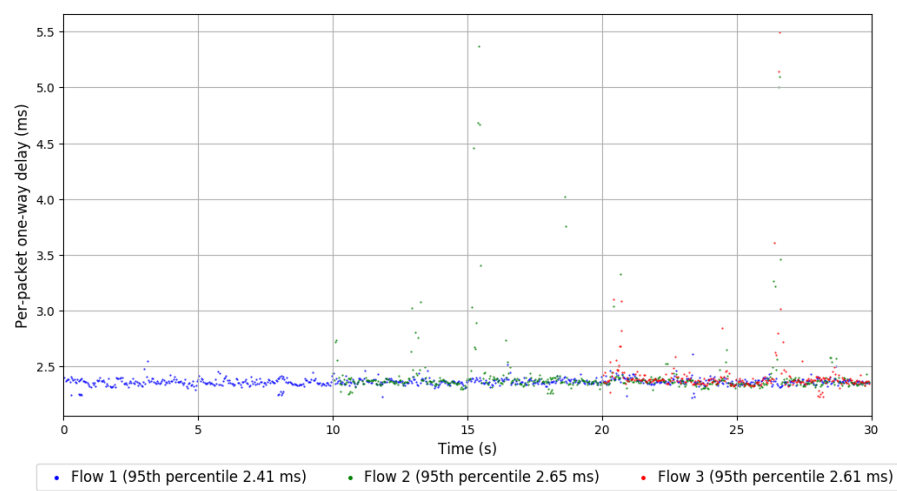
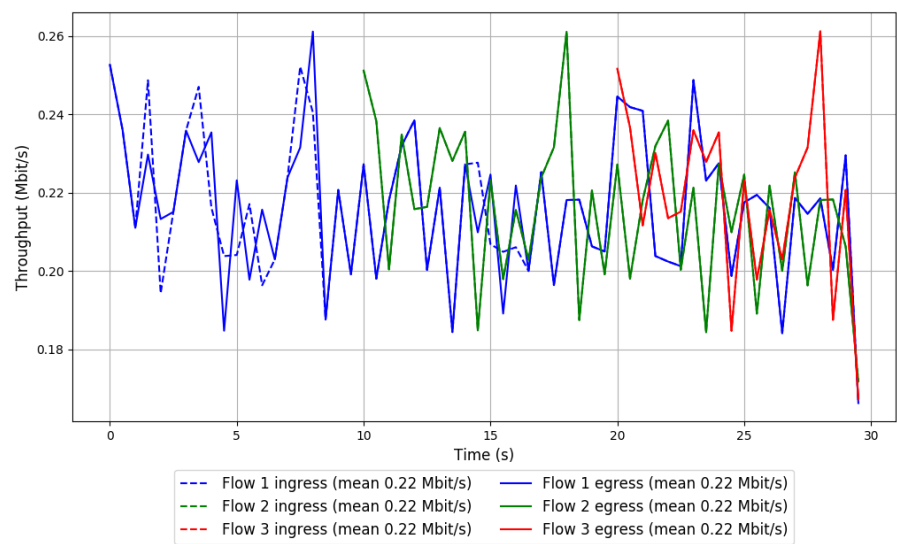


Run 1: Statistics of SReAM

Start at: 2018-02-04 17:27:49  
End at: 2018-02-04 17:28:19  
Local clock offset: 0.015 ms  
Remote clock offset: -0.739 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 2.465 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.414 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.655 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.606 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

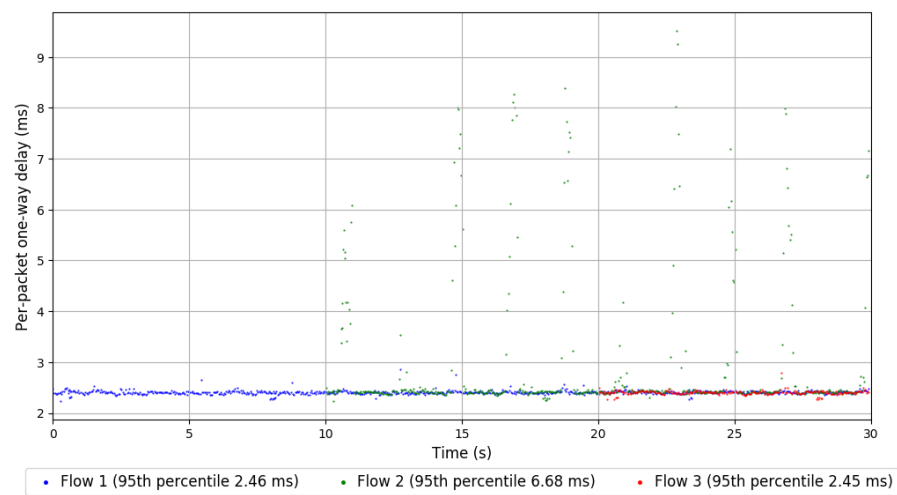
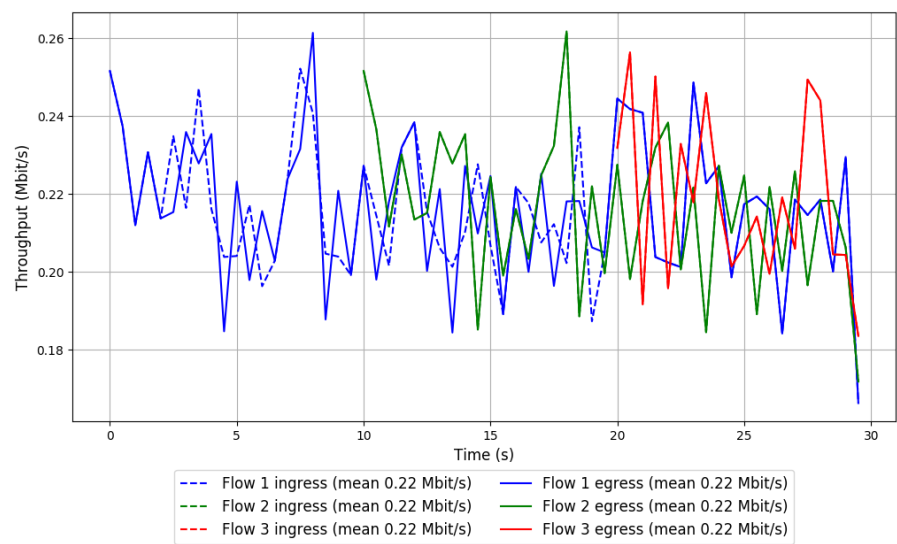


Run 2: Statistics of SReAM

Start at: 2018-02-04 17:48:20  
End at: 2018-02-04 17:48:50  
Local clock offset: 0.01 ms  
Remote clock offset: -0.401 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 3.231 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.458 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 6.679 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.451 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



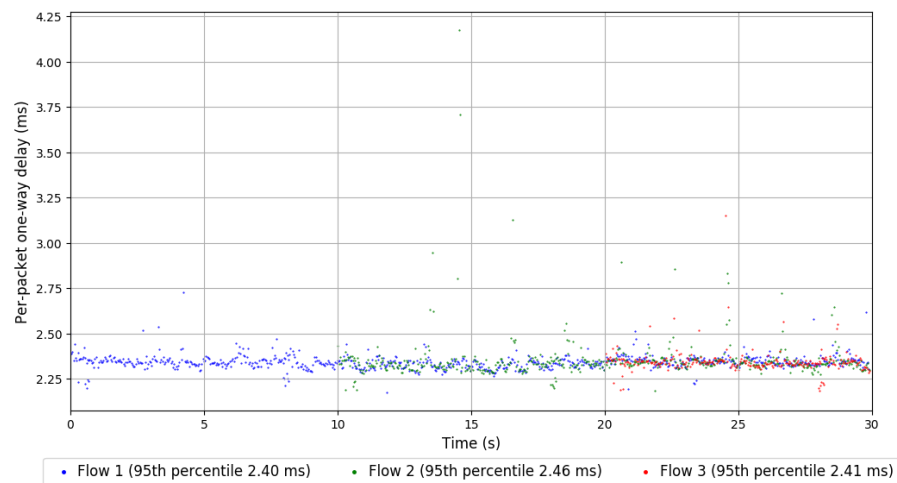
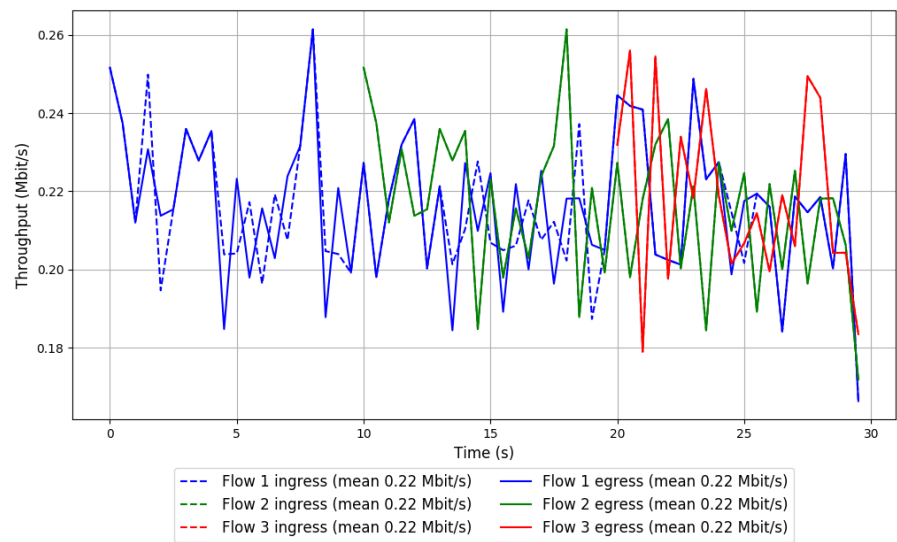
Run 3: Statistics of SReAM

Start at: 2018-02-04 18:08:43  
End at: 2018-02-04 18:09:13  
Local clock offset: 0.024 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 2.416 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.396 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.458 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.408 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-02-04 18:29:12

End at: 2018-02-04 18:29:42

Local clock offset: 0.051 ms

Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.399 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.399 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.399 ms

Loss rate: 0.00%

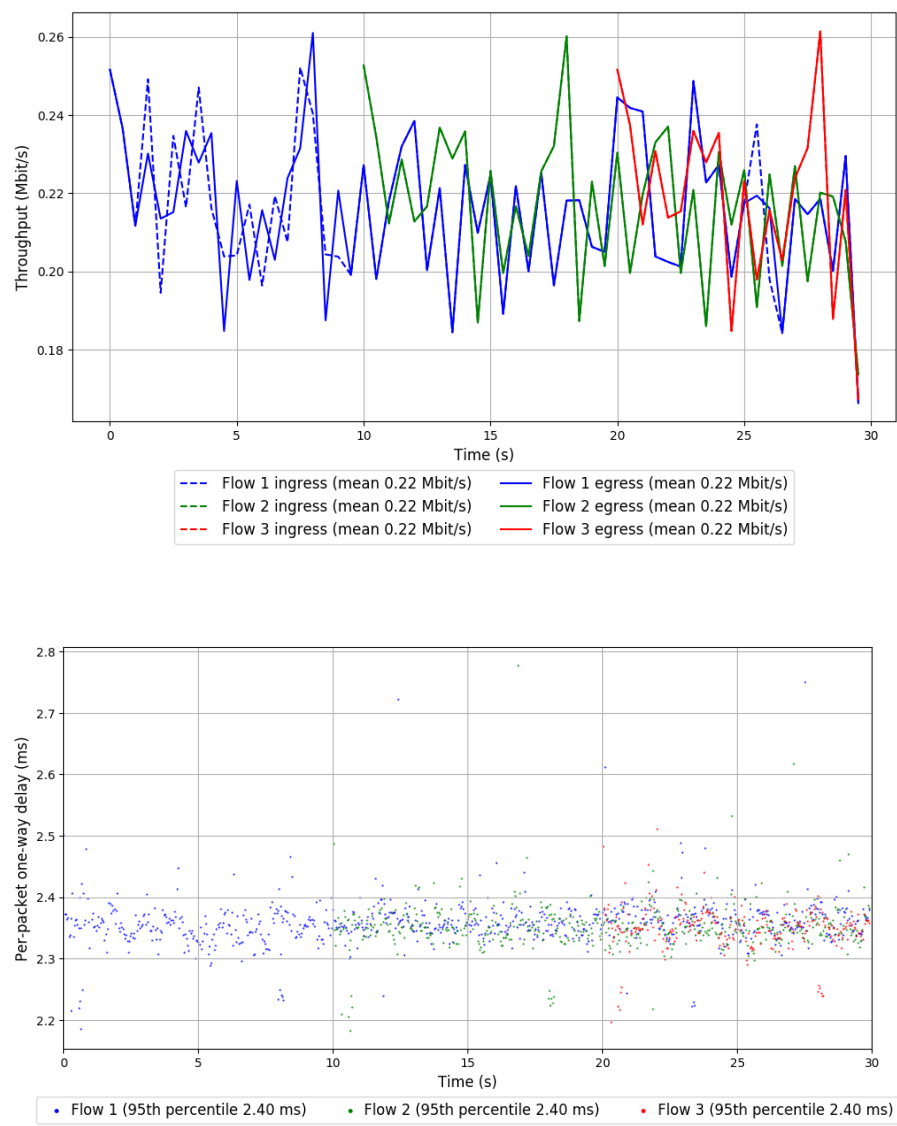
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.399 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-02-04 18:49:36

End at: 2018-02-04 18:50:06

Local clock offset: 0.046 ms

Remote clock offset: 1.877 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.520 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.538 ms

Loss rate: 0.00%

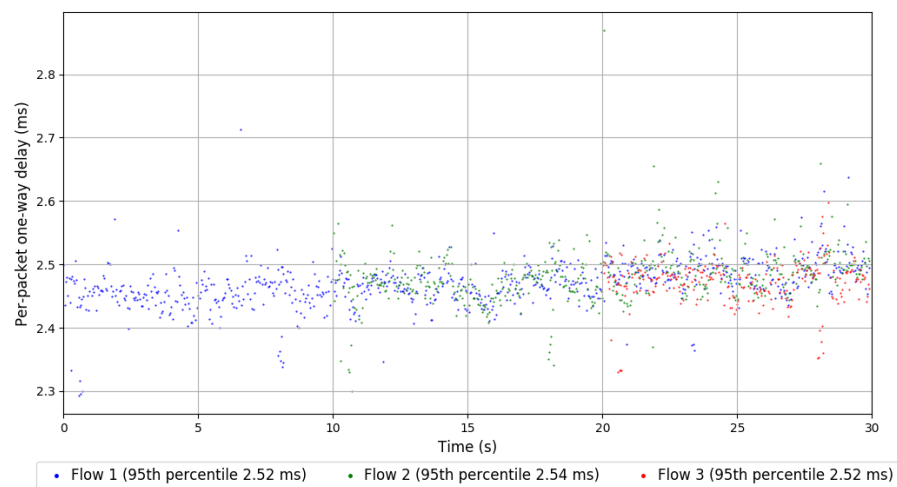
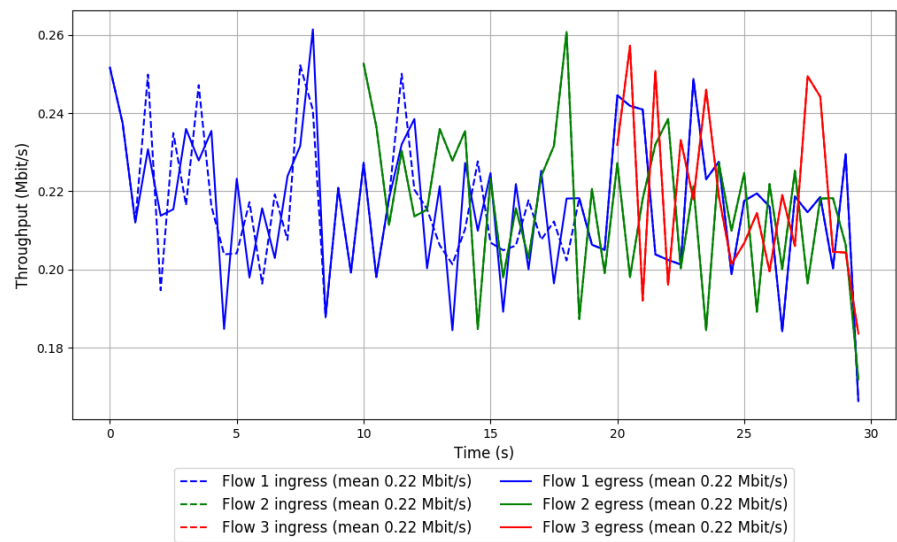
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.516 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-02-04 19:10:00

End at: 2018-02-04 19:10:30

Local clock offset: 0.038 ms

Remote clock offset: 2.835 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.384 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.379 ms

Loss rate: 0.00%

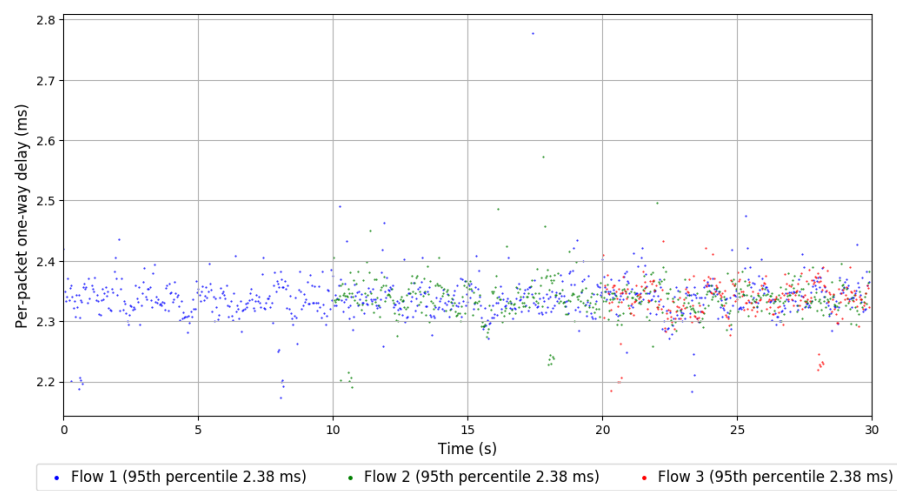
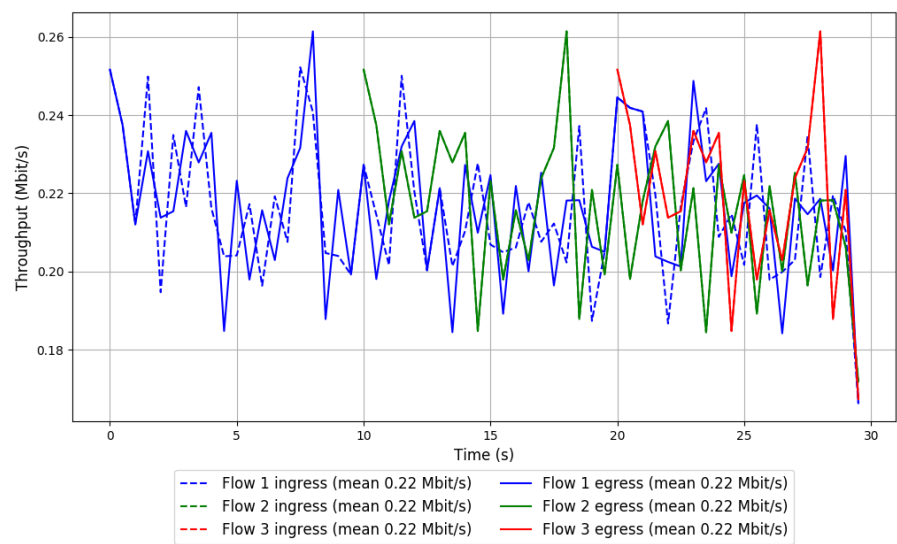
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.377 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



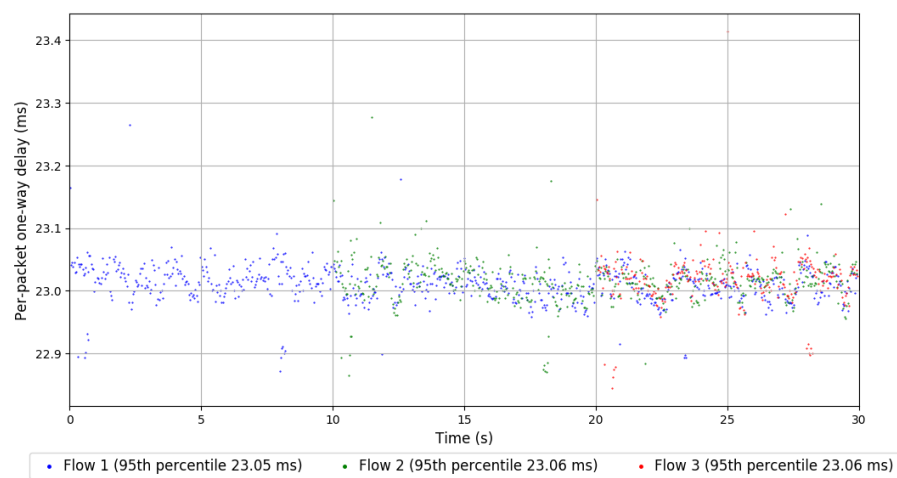
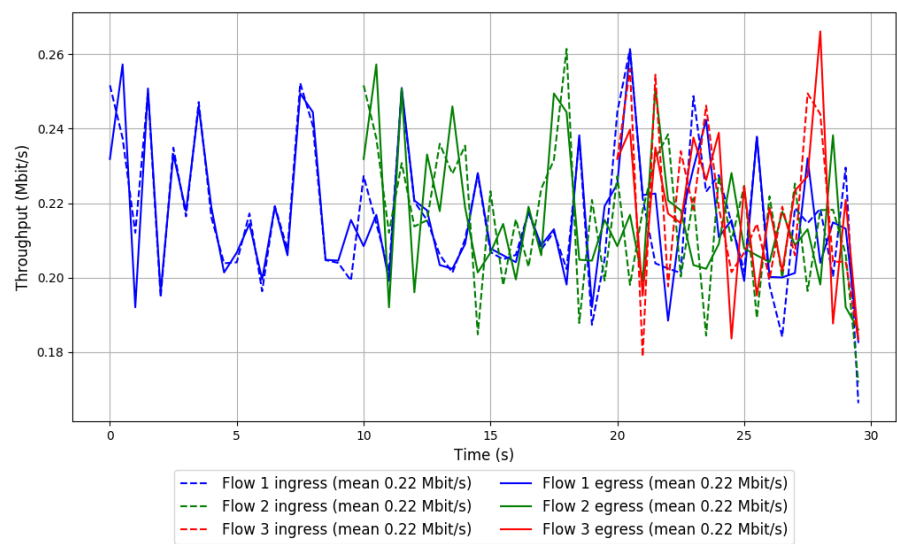
Run 7: Statistics of SReAM

Start at: 2018-02-04 19:30:25  
End at: 2018-02-04 19:30:55  
Local clock offset: 0.059 ms  
Remote clock offset: -17.286 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 23.054 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 23.051 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 23.061 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 23.056 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

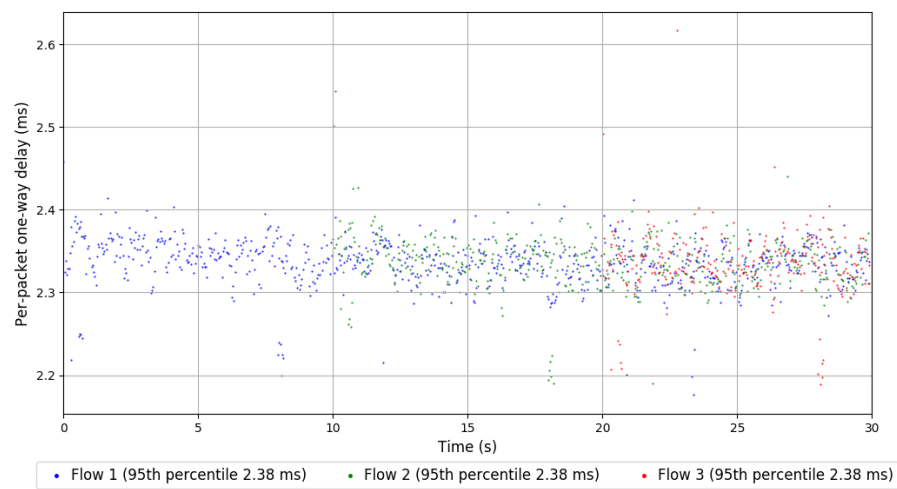
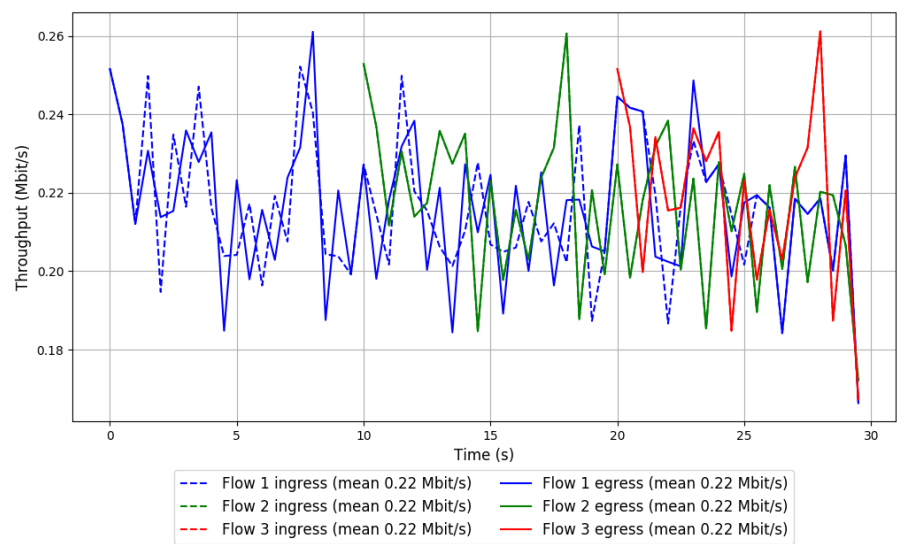


Run 8: Statistics of SReAM

Start at: 2018-02-04 19:50:50  
End at: 2018-02-04 19:51:20  
Local clock offset: 0.005 ms  
Remote clock offset: 2.699 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 2.377 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.376 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.376 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.382 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

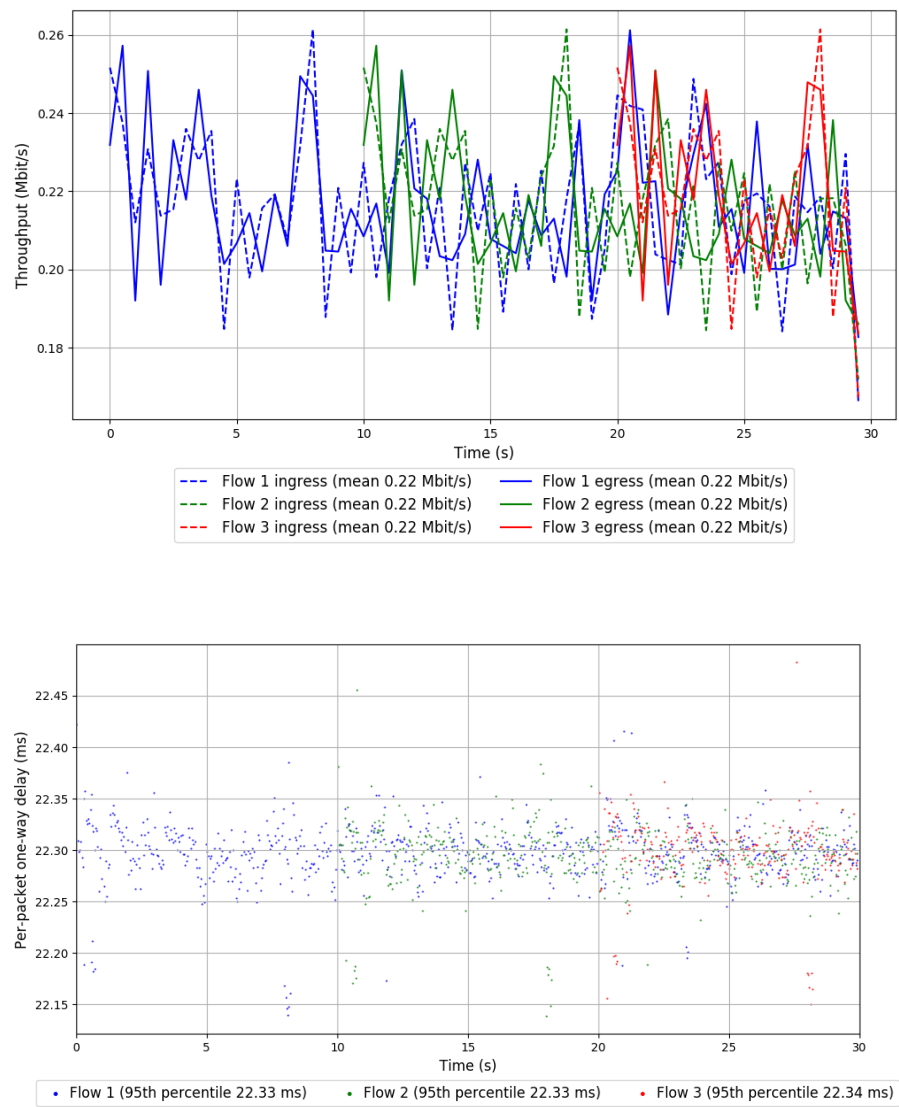


Run 9: Statistics of SReAM

Start at: 2018-02-04 20:11:16  
End at: 2018-02-04 20:11:46  
Local clock offset: 0.031 ms  
Remote clock offset: -17.539 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 22.335 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 22.334 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 22.332 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 22.340 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-04 20:31:46

End at: 2018-02-04 20:32:16

Local clock offset: 0.061 ms

Remote clock offset: 2.319 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.449 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.452 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.444 ms

Loss rate: 0.00%

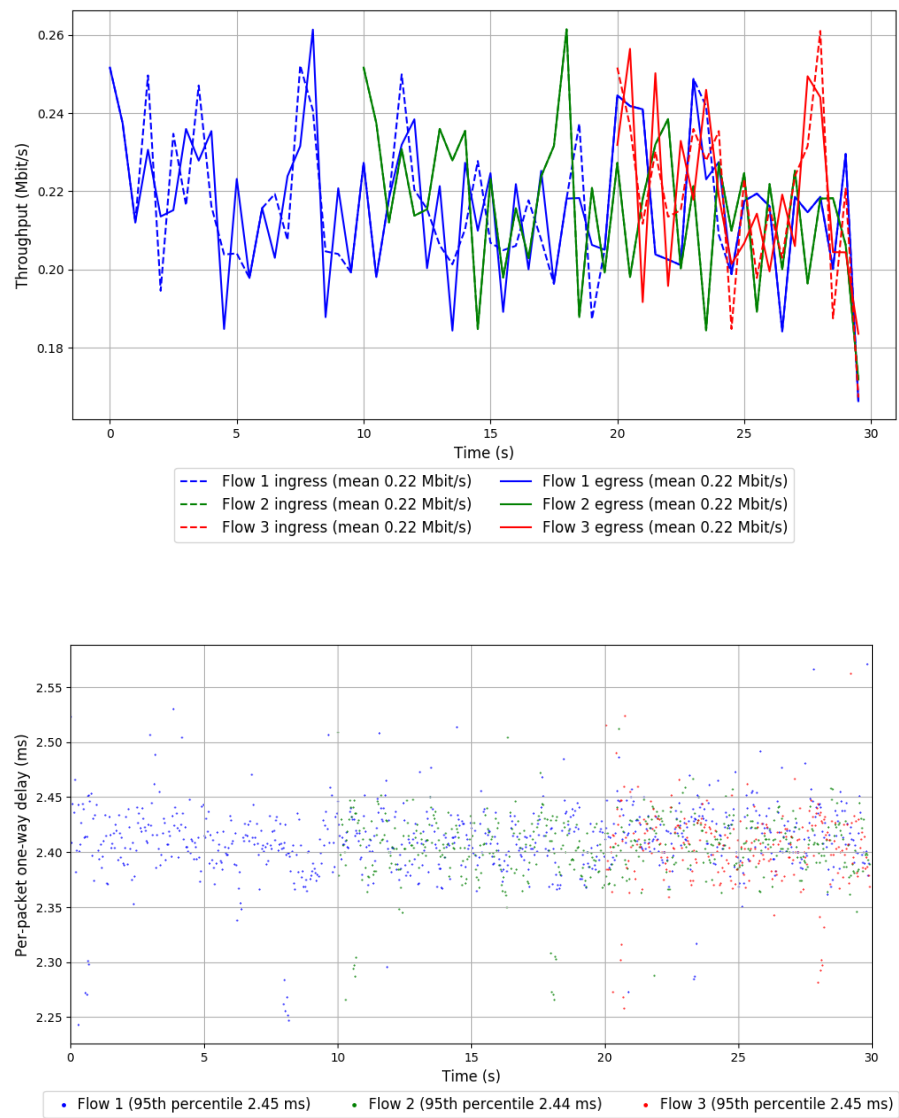
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.447 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



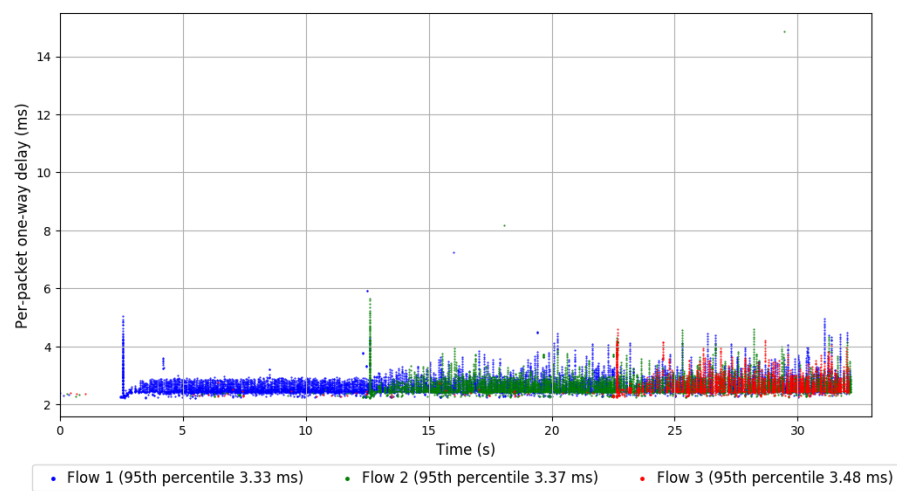
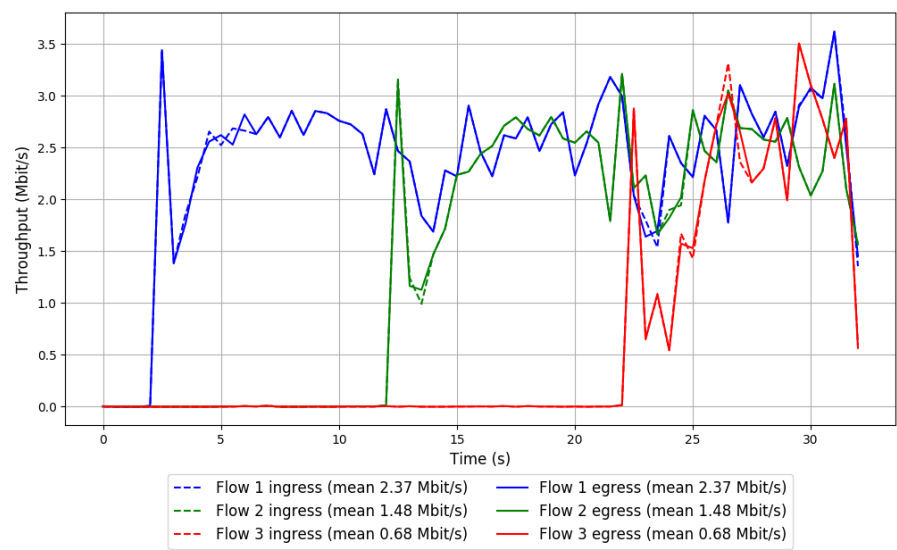
Run 1: Statistics of WebRTC media

Start at: 2018-02-04 17:30:03  
End at: 2018-02-04 17:30:33  
Local clock offset: 0.007 ms  
Remote clock offset: -0.775 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.51 Mbit/s  
95th percentile per-packet one-way delay: 3.379 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 3.333 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 3.373 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 3.483 ms  
Loss rate: 0.04%



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-04 17:50:34

End at: 2018-02-04 17:51:04

Local clock offset: 0.075 ms

Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.21 Mbit/s

95th percentile per-packet one-way delay: 3.319 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 3.309 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 3.369 ms

Loss rate: 0.00%

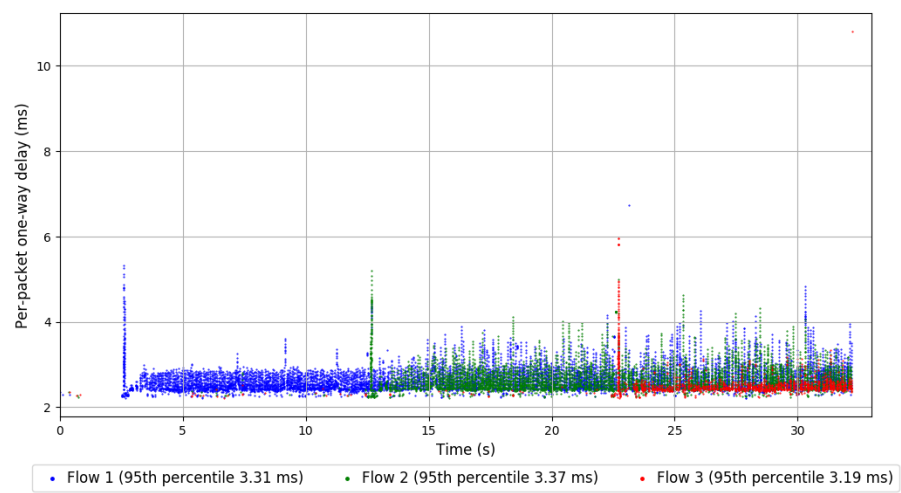
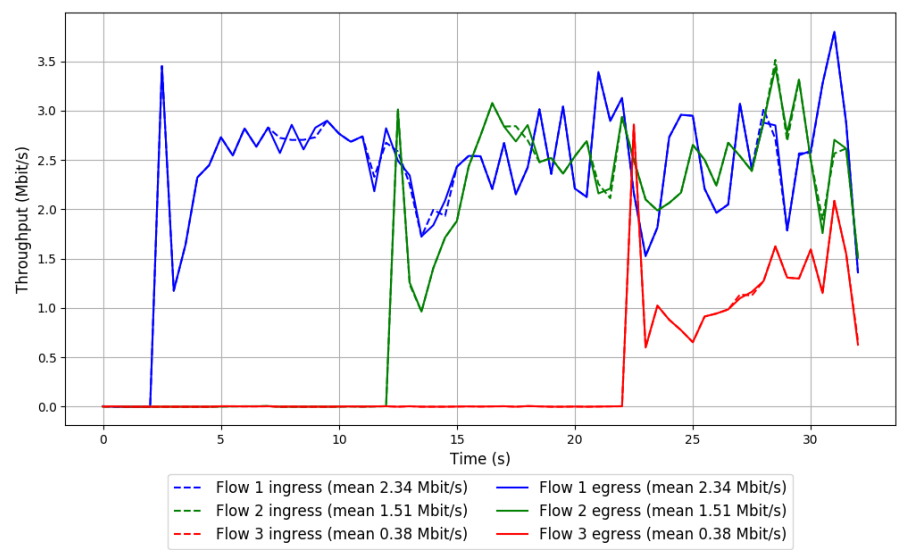
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 3.190 ms

Loss rate: 0.16%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-04 18:10:57

End at: 2018-02-04 18:11:27

Local clock offset: -0.034 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 3.196 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 3.147 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 3.236 ms

Loss rate: 0.00%

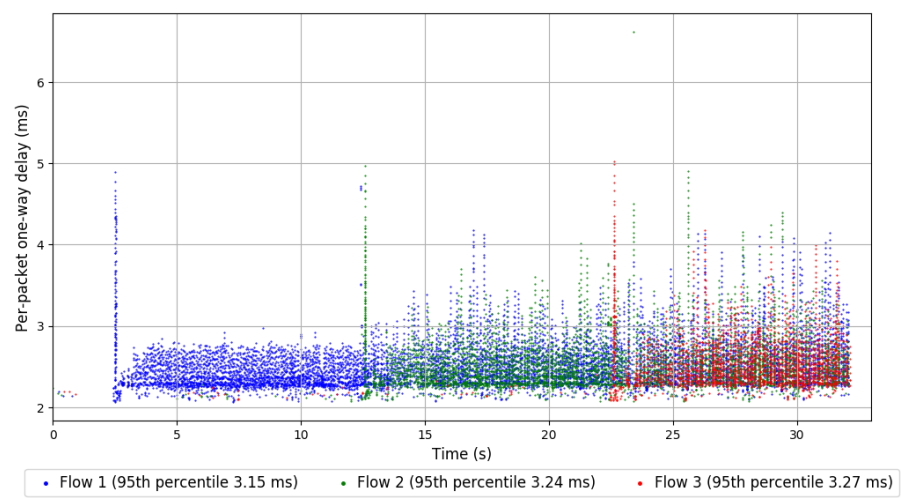
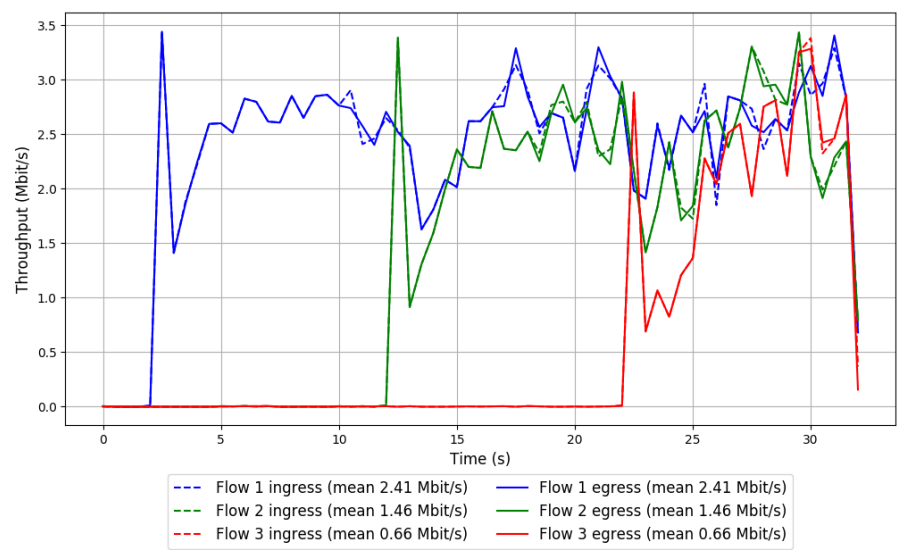
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 3.271 ms

Loss rate: 0.51%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-04 18:31:22

End at: 2018-02-04 18:31:52

Local clock offset: 0.047 ms

Remote clock offset: 0.313 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 3.448 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 3.475 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 3.420 ms

Loss rate: 0.00%

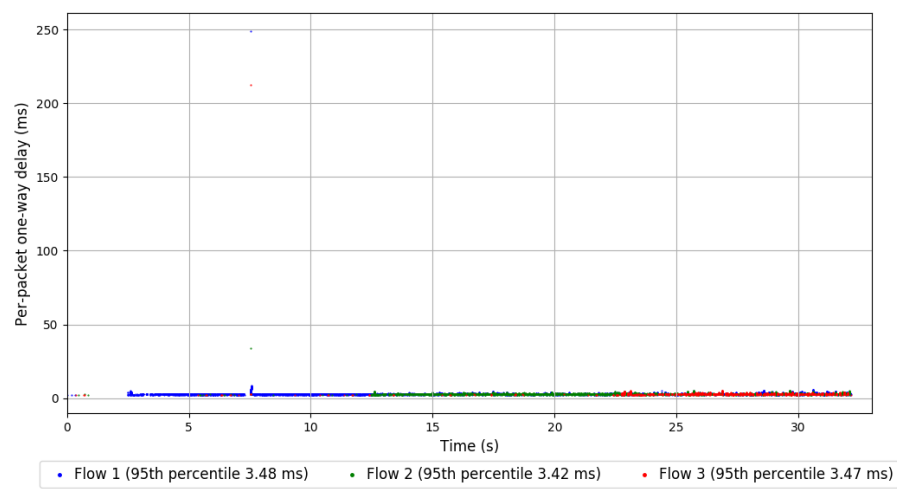
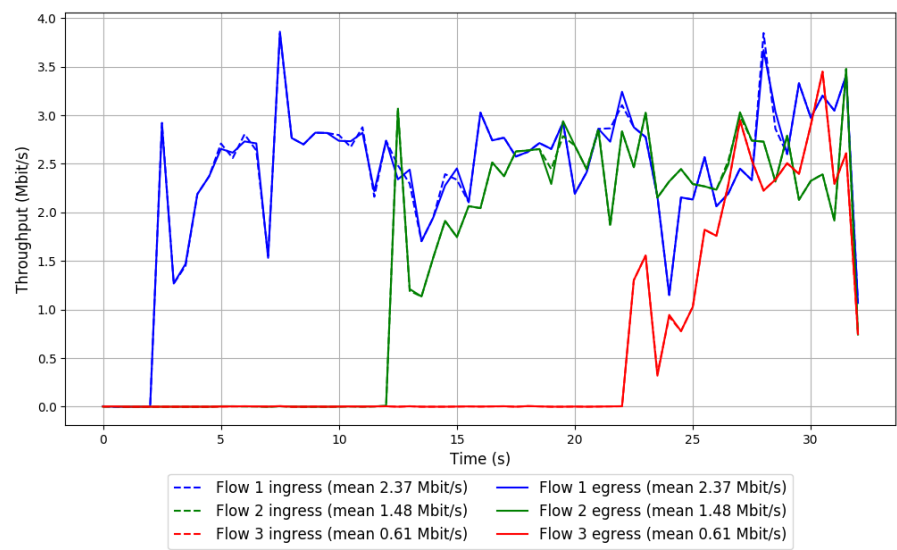
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 3.473 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-04 18:51:50

End at: 2018-02-04 18:52:20

Local clock offset: 0.051 ms

Remote clock offset: 2.194 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 3.418 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 3.227 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 3.714 ms

Loss rate: 0.00%

-- Flow 3:

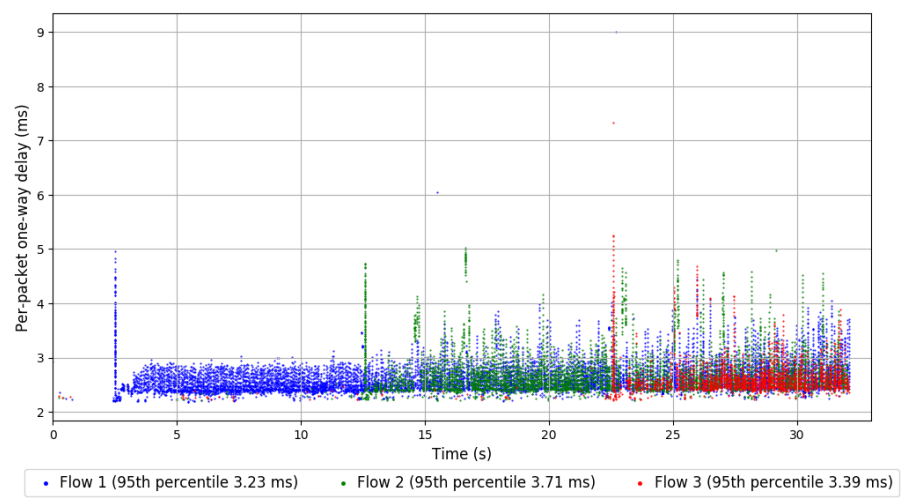
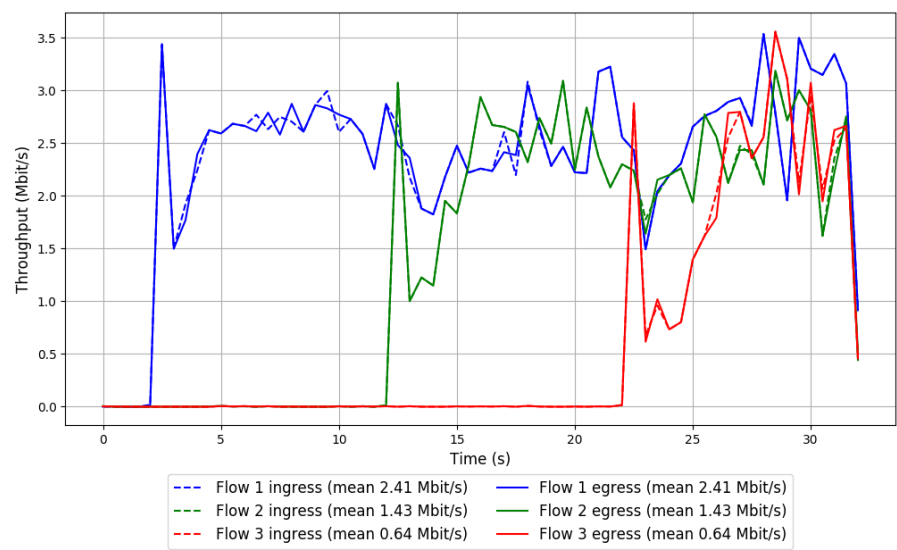
Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 3.390 ms

Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

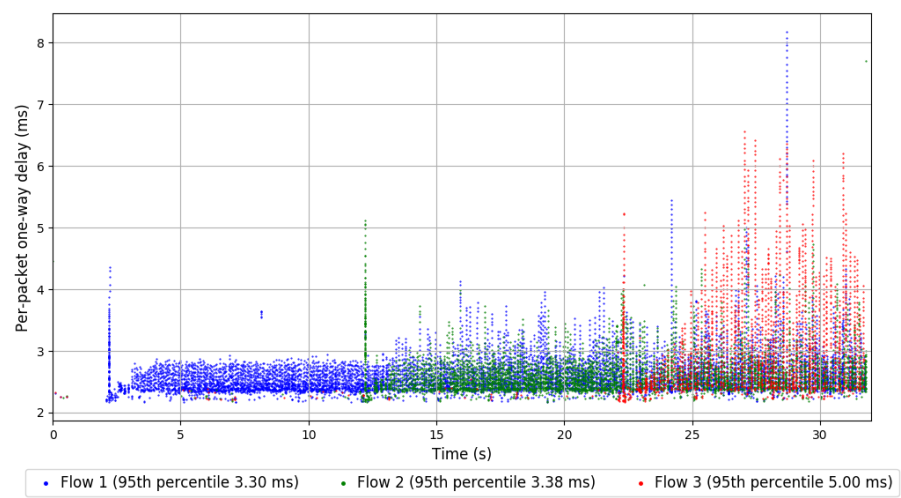
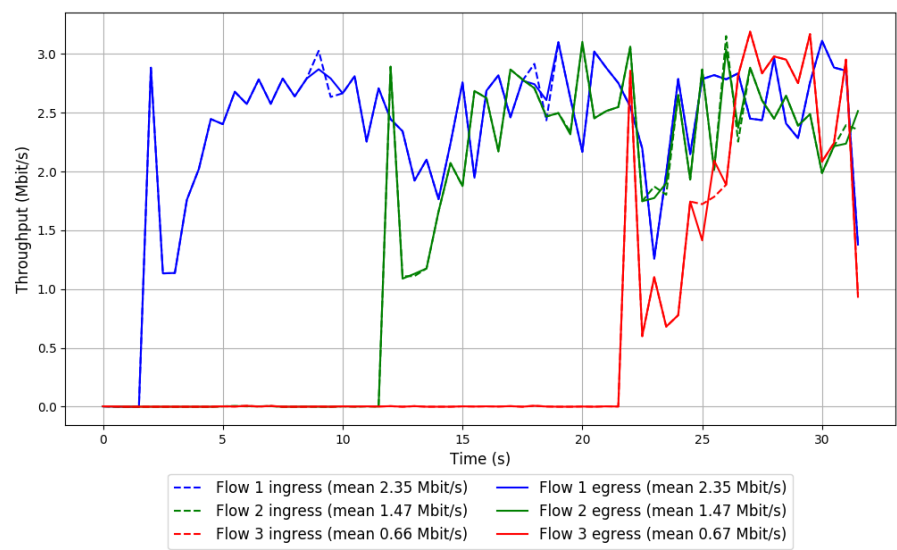


Run 6: Statistics of WebRTC media

Start at: 2018-02-04 19:12:14  
End at: 2018-02-04 19:12:44  
Local clock offset: -0.033 ms  
Remote clock offset: 2.815 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.47 Mbit/s  
95th percentile per-packet one-way delay: 3.800 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 3.300 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.47 Mbit/s  
95th percentile per-packet one-way delay: 3.376 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.67 Mbit/s  
95th percentile per-packet one-way delay: 4.999 ms  
Loss rate: 0.05%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-04 19:32:39

End at: 2018-02-04 19:33:09

Local clock offset: 0.04 ms

Remote clock offset: 3.321 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 3.322 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 3.346 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 3.262 ms

Loss rate: 0.00%

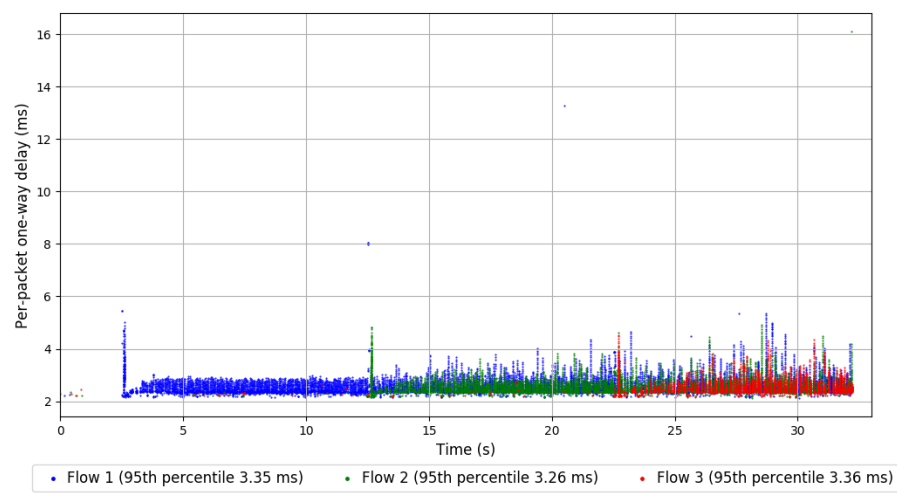
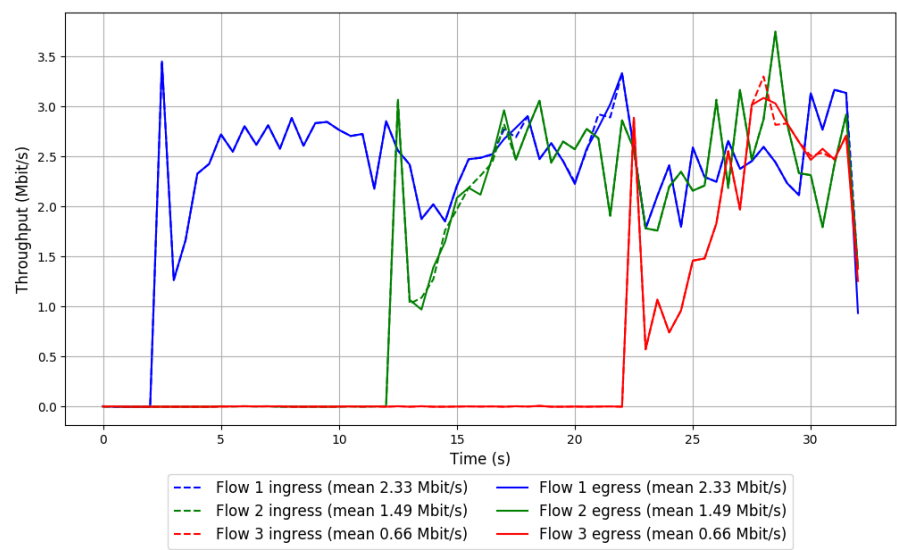
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 3.358 ms

Loss rate: 0.27%

Run 7: Report of WebRTC media — Data Link

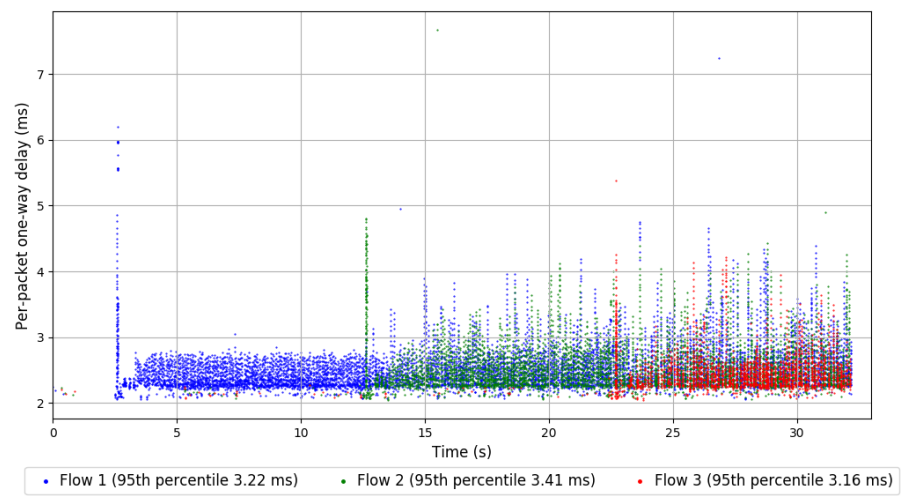
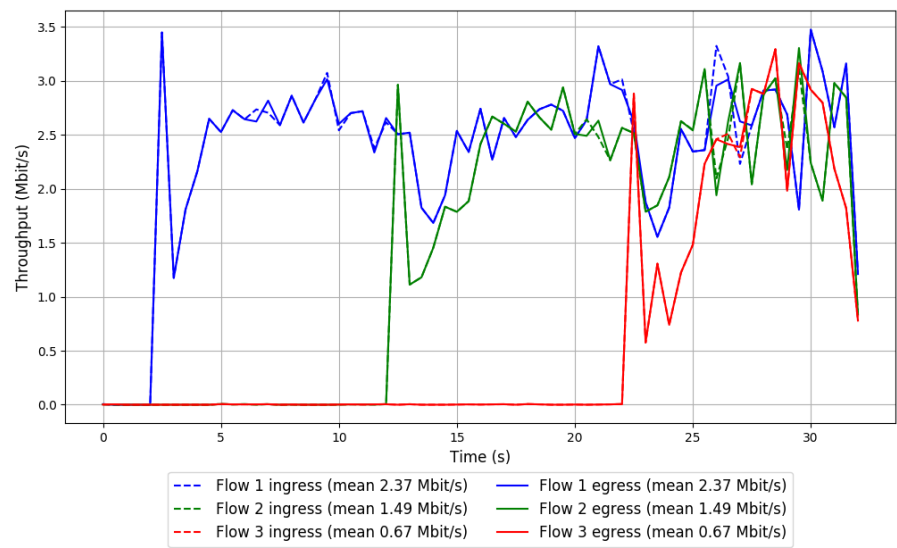


Run 8: Statistics of WebRTC media

Start at: 2018-02-04 19:53:04  
End at: 2018-02-04 19:53:34  
Local clock offset: -0.055 ms  
Remote clock offset: 2.697 ms

# Below is generated by plot.py at 2018-02-05 00:22:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.49 Mbit/s  
95th percentile per-packet one-way delay: 3.271 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 3.222 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 3.409 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.67 Mbit/s  
95th percentile per-packet one-way delay: 3.163 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-04 20:13:35

End at: 2018-02-04 20:14:05

Local clock offset: 0.025 ms

Remote clock offset: 2.35 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.43 Mbit/s

95th percentile per-packet one-way delay: 3.354 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 3.277 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 3.422 ms

Loss rate: 0.43%

-- Flow 3:

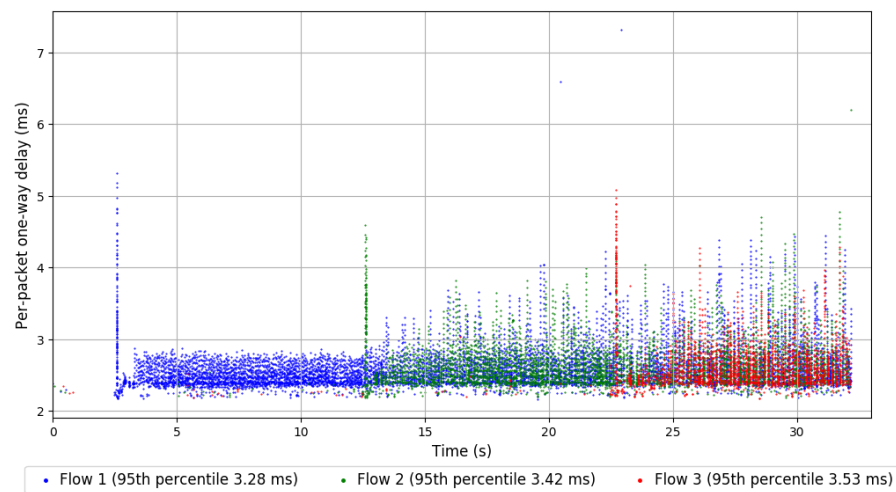
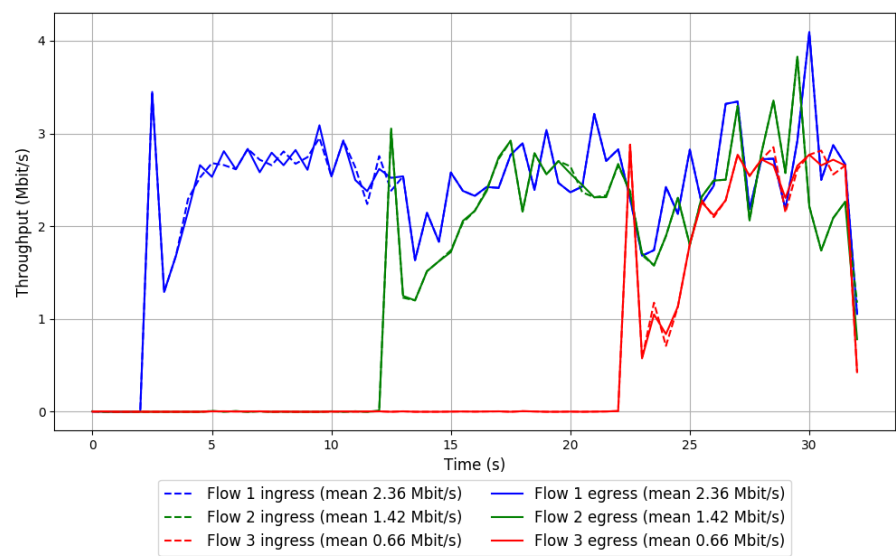
Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 3.527 ms

Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-04 20:33:59

End at: 2018-02-04 20:34:29

Local clock offset: 0.072 ms

Remote clock offset: 2.393 ms

# Below is generated by plot.py at 2018-02-05 00:22:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 3.422 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 3.329 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 3.579 ms

Loss rate: 0.00%

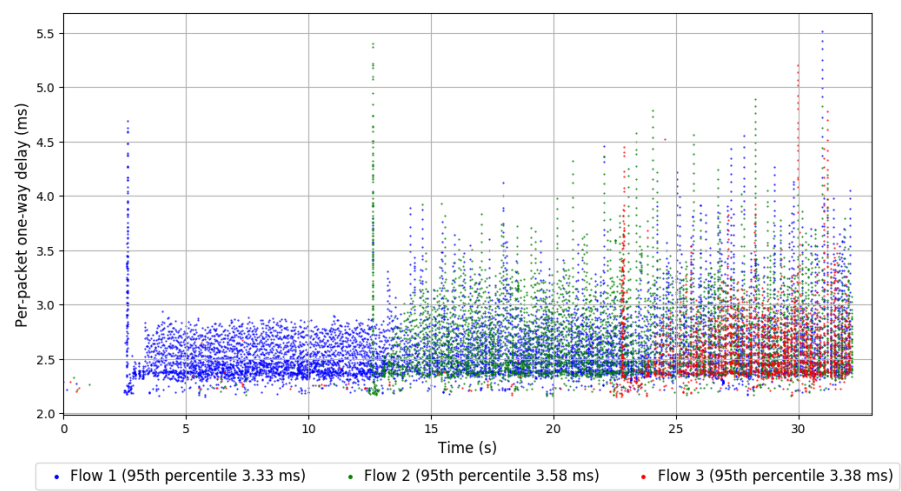
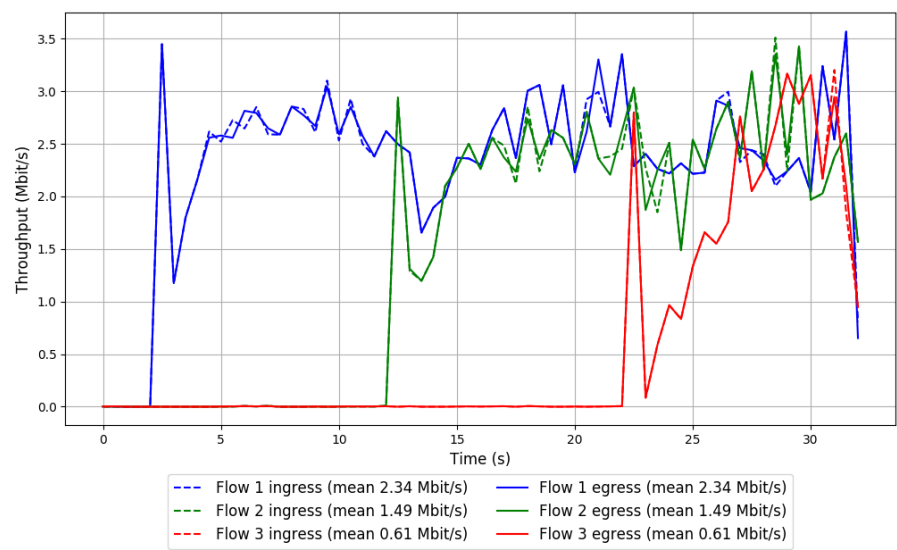
-- Flow 3:

Average throughput: 0.61 Mbit/s

95th percentile per-packet one-way delay: 3.385 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

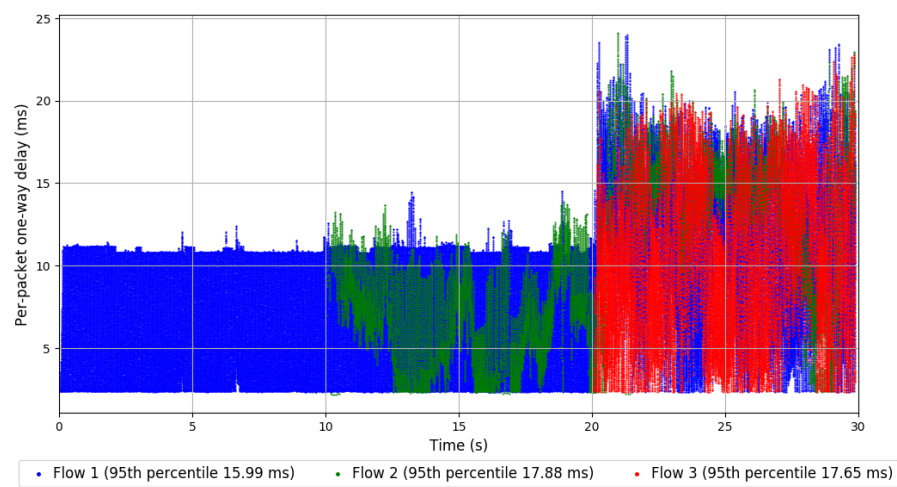
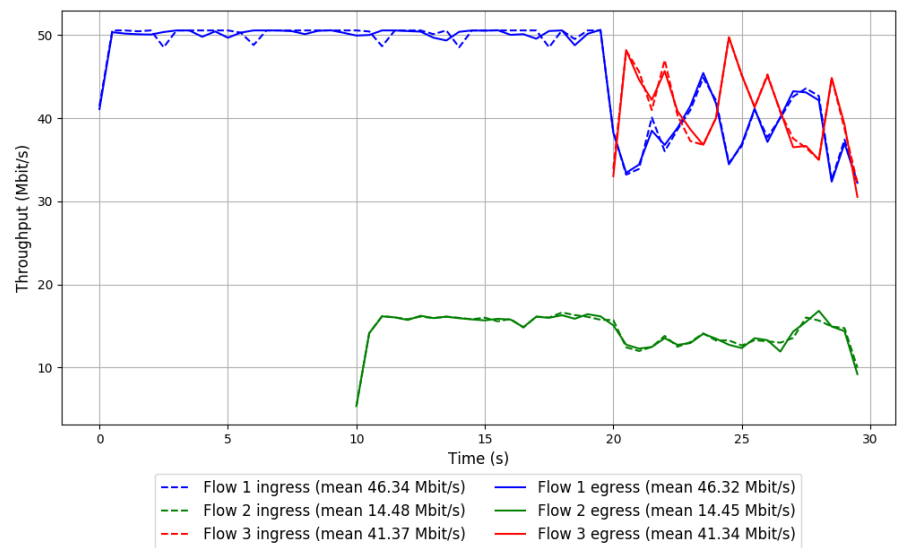


Run 1: Statistics of Sprout

Start at: 2018-02-04 17:25:32  
End at: 2018-02-04 17:26:02  
Local clock offset: 0.009 ms  
Remote clock offset: -0.755 ms

# Below is generated by plot.py at 2018-02-05 00:22:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.56 Mbit/s  
95th percentile per-packet one-way delay: 16.885 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 46.32 Mbit/s  
95th percentile per-packet one-way delay: 15.990 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 14.45 Mbit/s  
95th percentile per-packet one-way delay: 17.876 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 41.34 Mbit/s  
95th percentile per-packet one-way delay: 17.651 ms  
Loss rate: 0.25%

Run 1: Report of Sprout — Data Link

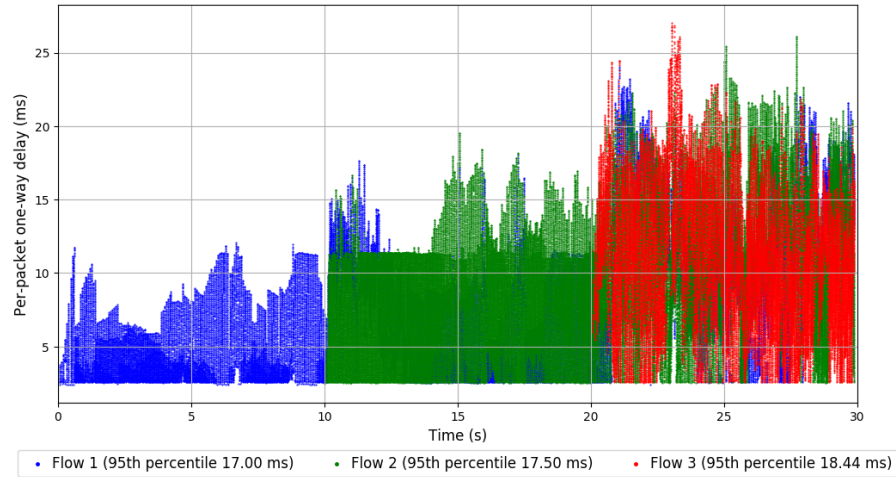
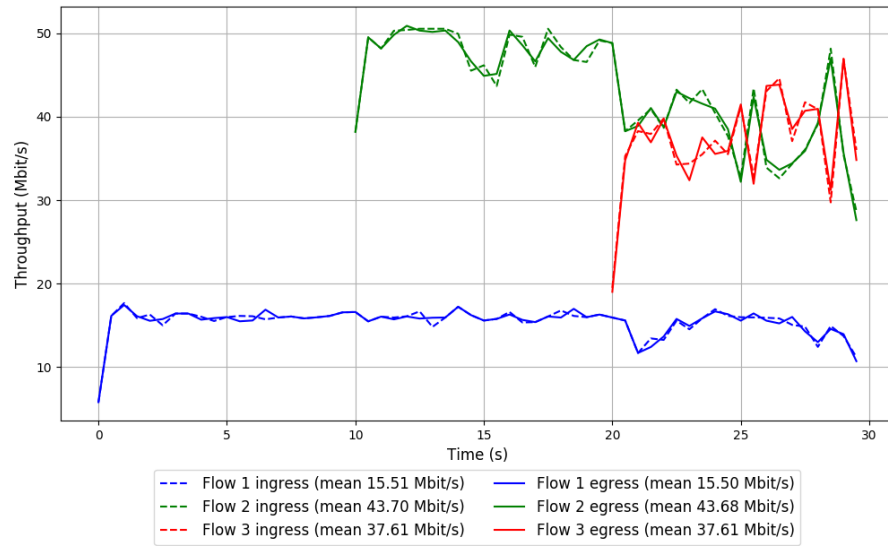


Run 2: Statistics of Sprout

Start at: 2018-02-04 17:46:06  
End at: 2018-02-04 17:46:36  
Local clock offset: 0.02 ms  
Remote clock offset: -0.592 ms

# Below is generated by plot.py at 2018-02-05 00:22:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.92 Mbit/s  
95th percentile per-packet one-way delay: 17.682 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 15.50 Mbit/s  
95th percentile per-packet one-way delay: 17.001 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 43.68 Mbit/s  
95th percentile per-packet one-way delay: 17.502 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 37.61 Mbit/s  
95th percentile per-packet one-way delay: 18.443 ms  
Loss rate: 0.16%

## Run 2: Report of Sprout — Data Link



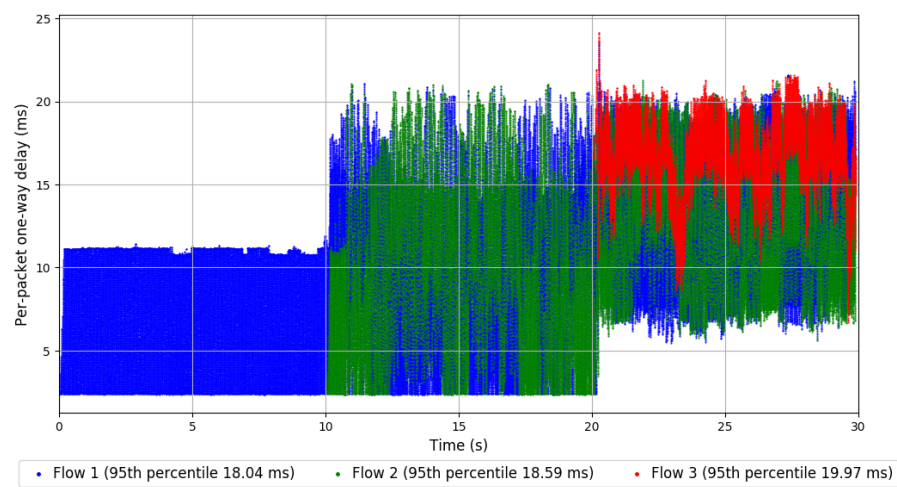
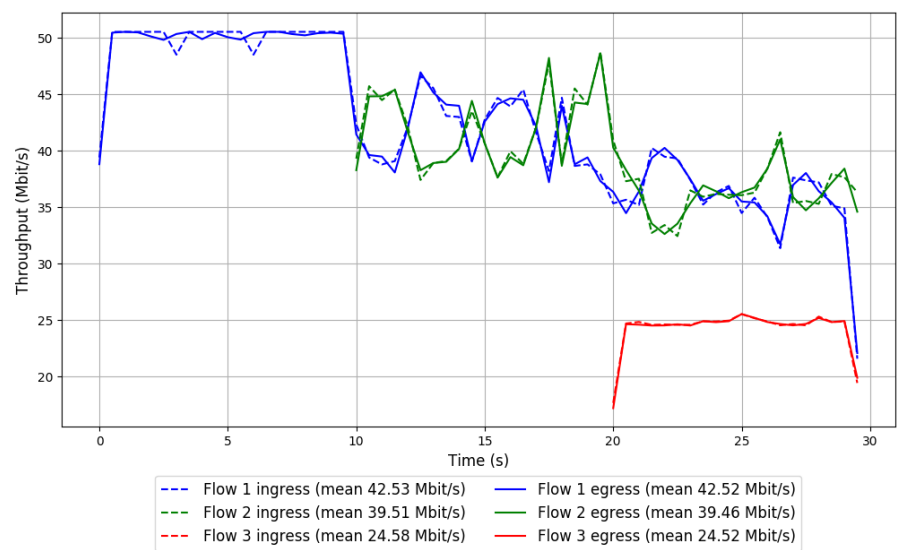
### Run 3: Statistics of Sprout

Start at: 2018-02-04 18:06:28  
End at: 2018-02-04 18:06:58  
Local clock offset: 0.059 ms  
Remote clock offset: -0.043 ms

```
# Below is generated by plot.py at 2018-02-05 00:23:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.82 Mbit/s
95th percentile per-packet one-way delay: 18.786 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 42.52 Mbit/s
95th percentile per-packet one-way delay: 18.039 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 39.46 Mbit/s
95th percentile per-packet one-way delay: 18.588 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 19.971 ms
Loss rate: 0.11%
```



Run 3: Report of Sprout — Data Link



#### Run 4: Statistics of Sprout

Start at: 2018-02-04 18:26:58

End at: 2018-02-04 18:27:28

Local clock offset: 0.05 ms

Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2018-02-05 00:23:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 17.946 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 16.852 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 18.401 ms

Loss rate: 0.05%

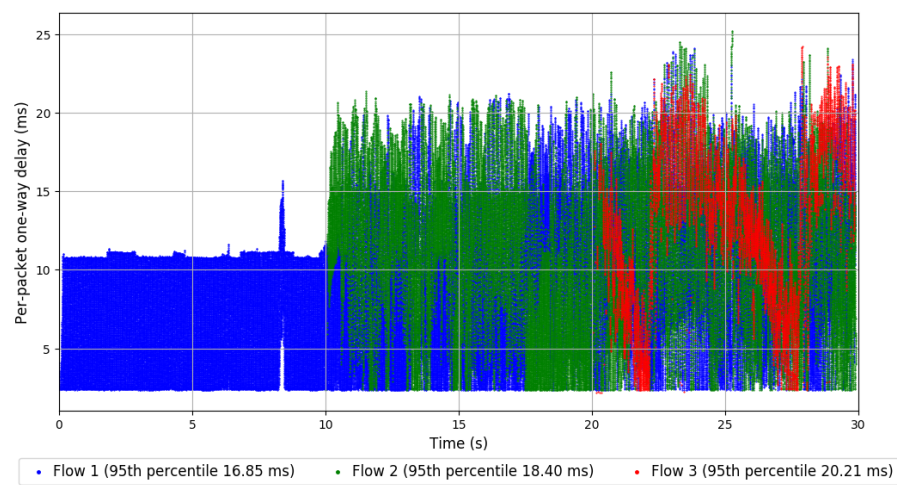
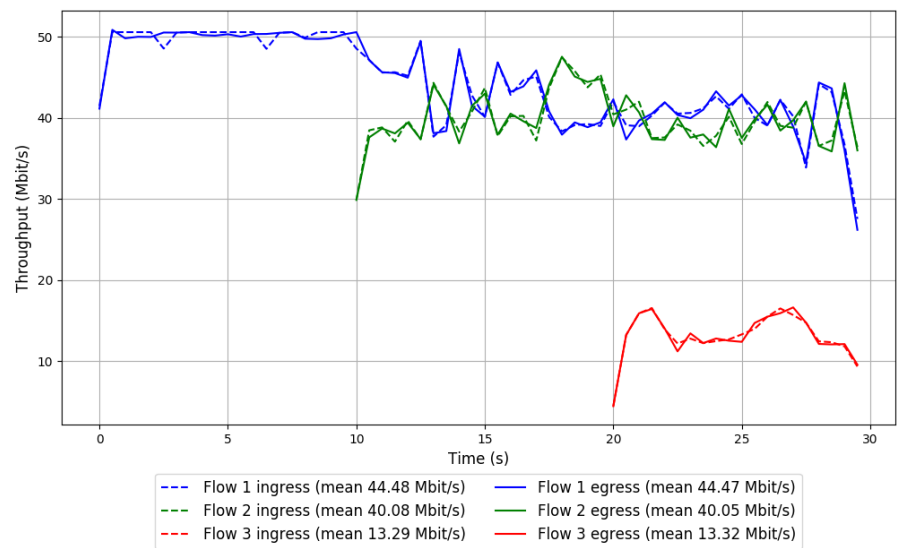
-- Flow 3:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 20.206 ms

Loss rate: 0.03%

Run 4: Report of Sprout — Data Link

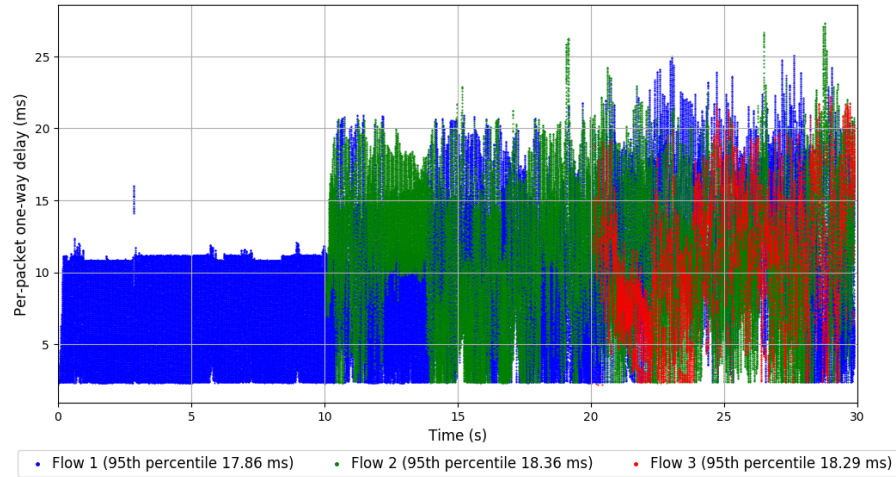
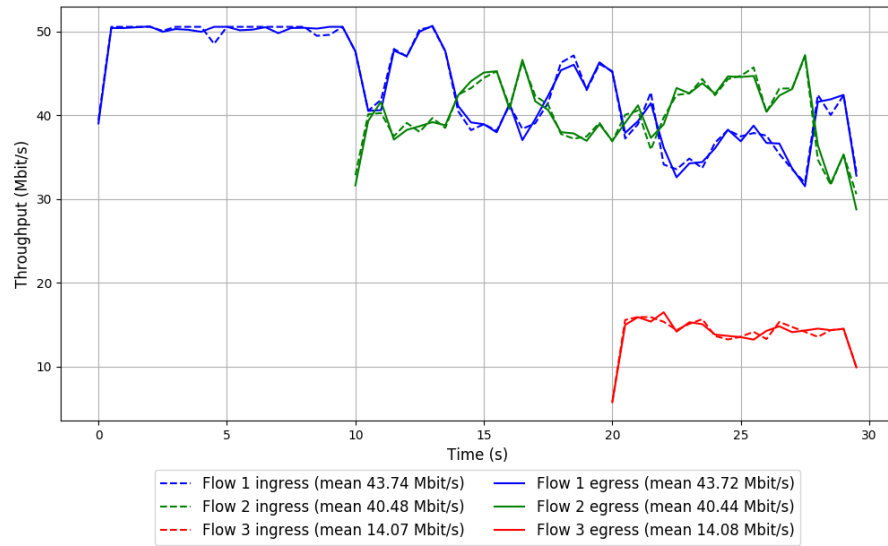


Run 5: Statistics of Sprout

Start at: 2018-02-04 18:47:20  
End at: 2018-02-04 18:47:50  
Local clock offset: -0.023 ms  
Remote clock offset: 1.692 ms

```
# Below is generated by plot.py at 2018-02-05 00:23:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.26 Mbit/s
95th percentile per-packet one-way delay: 18.098 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 17.856 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 18.358 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 14.08 Mbit/s
95th percentile per-packet one-way delay: 18.289 ms
Loss rate: 0.00%
```

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-04 19:07:44

End at: 2018-02-04 19:08:14

Local clock offset: 0.062 ms

Remote clock offset: 2.744 ms

# Below is generated by plot.py at 2018-02-05 00:23:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 19.261 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 41.58 Mbit/s

95th percentile per-packet one-way delay: 18.517 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 40.51 Mbit/s

95th percentile per-packet one-way delay: 18.736 ms

Loss rate: 0.10%

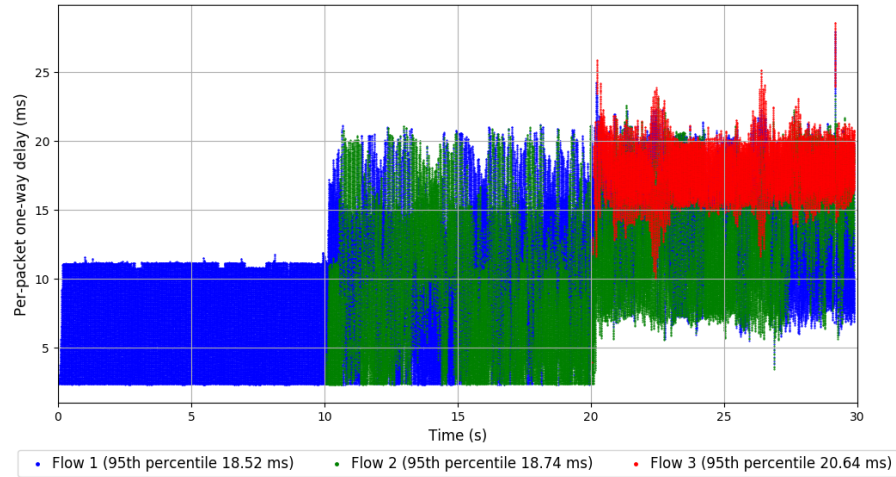
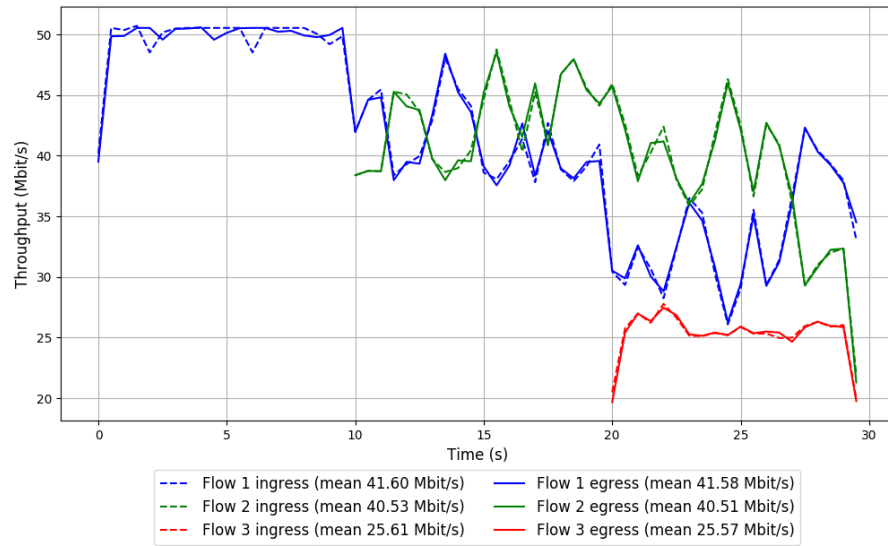
-- Flow 3:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 20.642 ms

Loss rate: 0.20%

## Run 6: Report of Sprout — Data Link



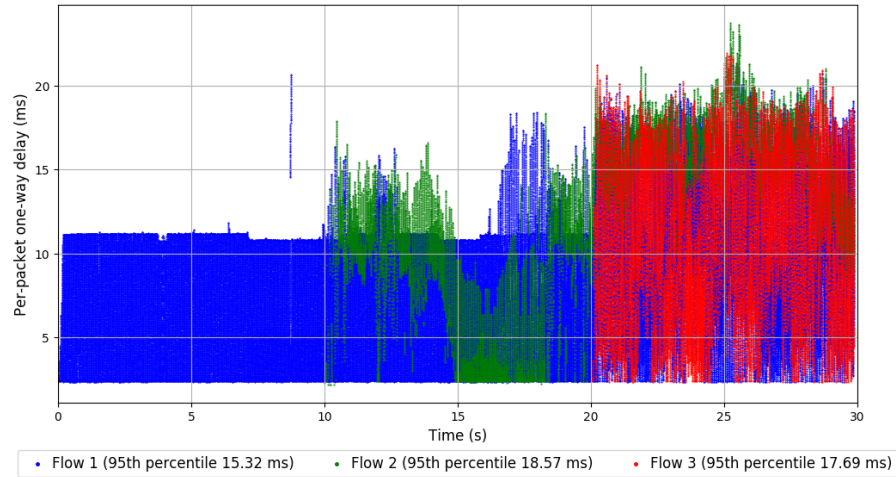
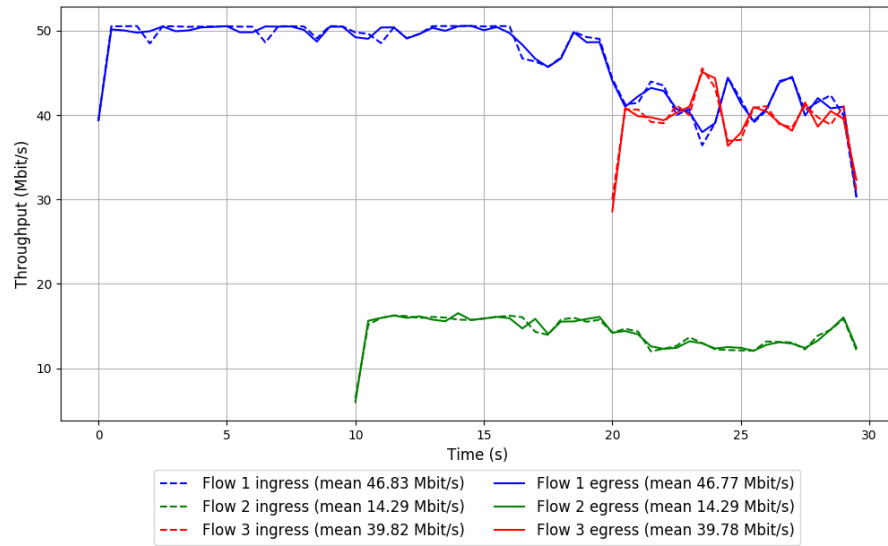
Run 7: Statistics of Sprout

Start at: 2018-02-04 19:28:11  
End at: 2018-02-04 19:28:41  
Local clock offset: -0.027 ms  
Remote clock offset: 3.323 ms

# Below is generated by plot.py at 2018-02-05 00:23:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.39 Mbit/s  
95th percentile per-packet one-way delay: 17.000 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 46.77 Mbit/s  
95th percentile per-packet one-way delay: 15.322 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 14.29 Mbit/s  
95th percentile per-packet one-way delay: 18.575 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 39.78 Mbit/s  
95th percentile per-packet one-way delay: 17.686 ms  
Loss rate: 0.04%



## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-04 19:48:36

End at: 2018-02-04 19:49:06

Local clock offset: 0.02 ms

Remote clock offset: 2.716 ms

# Below is generated by plot.py at 2018-02-05 00:23:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.95 Mbit/s

95th percentile per-packet one-way delay: 21.926 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 41.80 Mbit/s

95th percentile per-packet one-way delay: 19.821 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 36.98 Mbit/s

95th percentile per-packet one-way delay: 22.824 ms

Loss rate: 0.06%

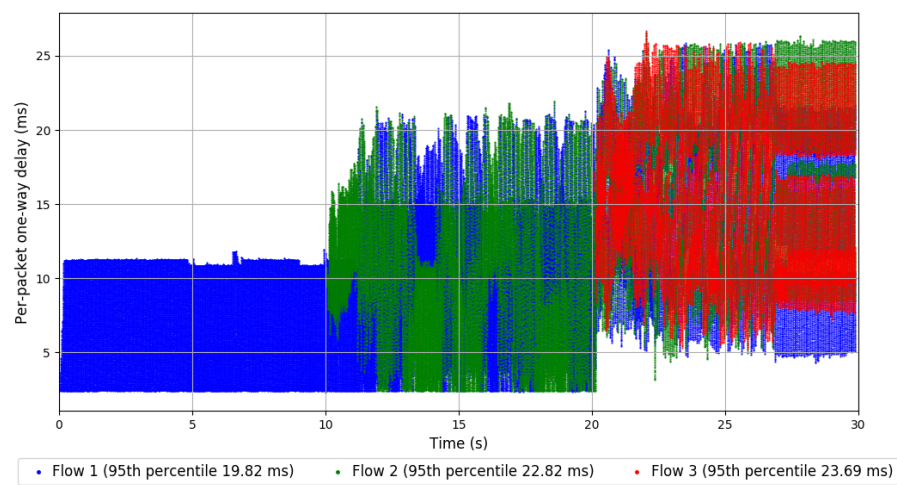
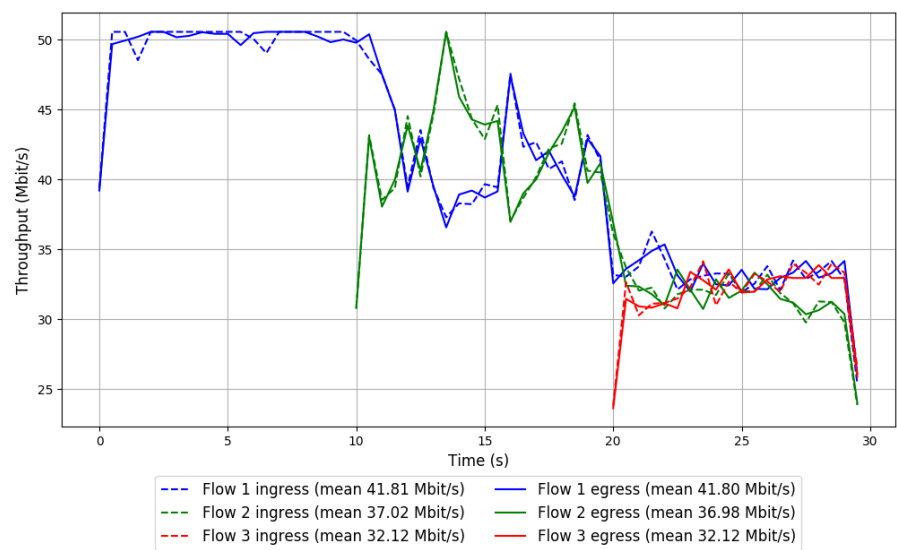
-- Flow 3:

Average throughput: 32.12 Mbit/s

95th percentile per-packet one-way delay: 23.692 ms

Loss rate: 0.32%

Run 8: Report of Sprout — Data Link

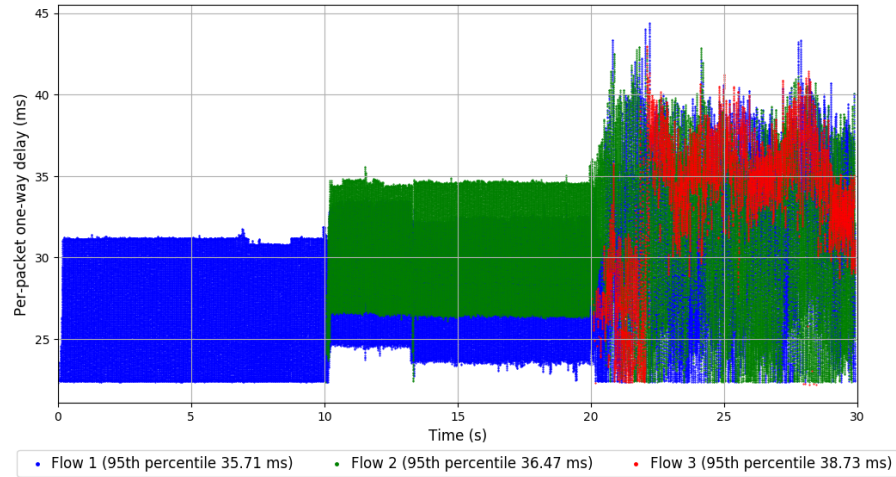
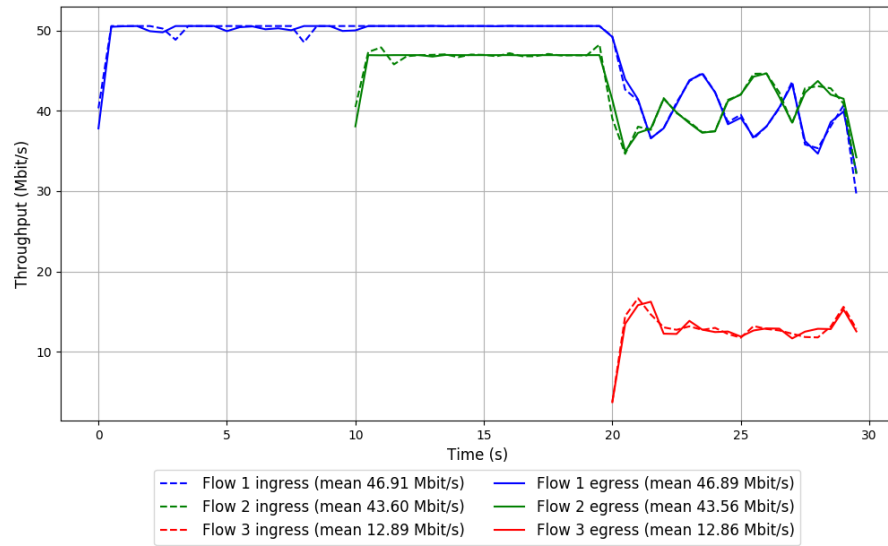


Run 9: Statistics of Sprout

Start at: 2018-02-04 20:09:01  
End at: 2018-02-04 20:09:31  
Local clock offset: 0.037 ms  
Remote clock offset: -17.564 ms

# Below is generated by plot.py at 2018-02-05 00:23:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.10 Mbit/s  
95th percentile per-packet one-way delay: 36.580 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 46.89 Mbit/s  
95th percentile per-packet one-way delay: 35.708 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 43.56 Mbit/s  
95th percentile per-packet one-way delay: 36.466 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 12.86 Mbit/s  
95th percentile per-packet one-way delay: 38.727 ms  
Loss rate: 0.39%

## Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-04 20:29:31

End at: 2018-02-04 20:30:01

Local clock offset: 0.08 ms

Remote clock offset: 2.328 ms

# Below is generated by plot.py at 2018-02-05 00:23:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.78 Mbit/s

95th percentile per-packet one-way delay: 17.355 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 17.653 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 45.25 Mbit/s

95th percentile per-packet one-way delay: 16.329 ms

Loss rate: 0.00%

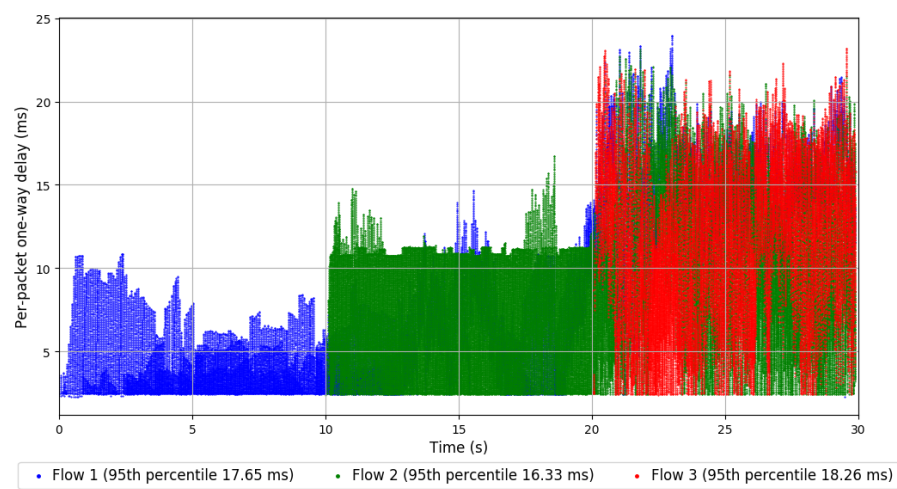
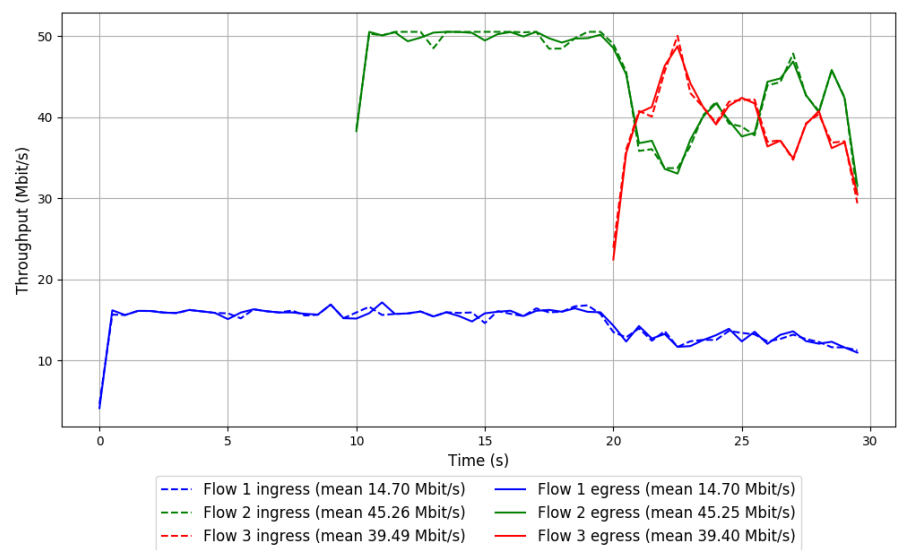
-- Flow 3:

Average throughput: 39.40 Mbit/s

95th percentile per-packet one-way delay: 18.261 ms

Loss rate: 0.14%

Run 10: Report of Sprout — Data Link



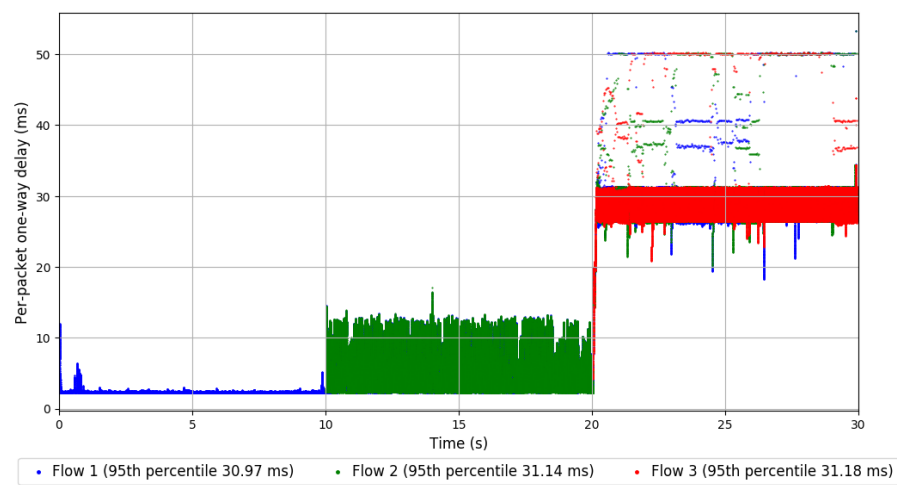
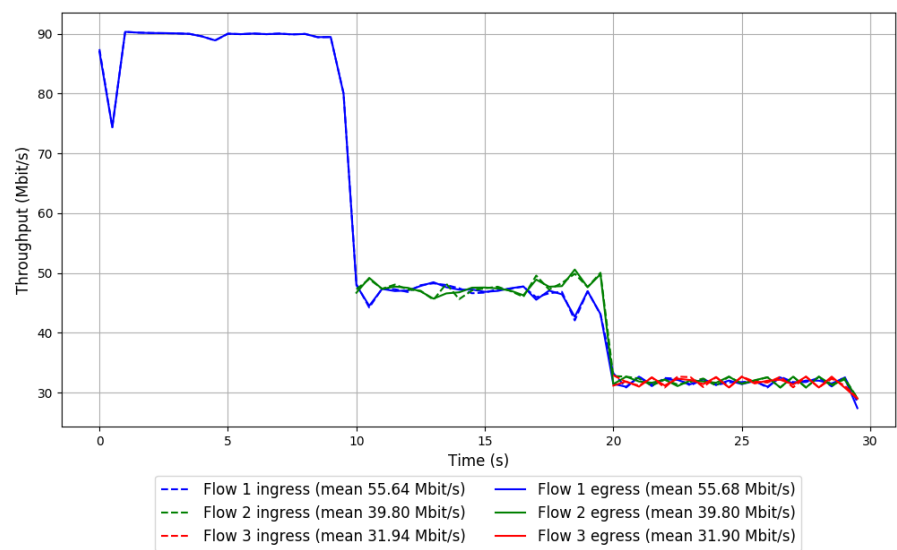
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-04 17:23:13  
End at: 2018-02-04 17:23:43  
Local clock offset: -0.011 ms  
Remote clock offset: -0.752 ms

# Below is generated by plot.py at 2018-02-05 00:25:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.71 Mbit/s  
95th percentile per-packet one-way delay: 31.115 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 55.68 Mbit/s  
95th percentile per-packet one-way delay: 30.974 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 39.80 Mbit/s  
95th percentile per-packet one-way delay: 31.136 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.90 Mbit/s  
95th percentile per-packet one-way delay: 31.175 ms  
Loss rate: 0.30%



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-02-04 17:43:46

End at: 2018-02-04 17:44:16

Local clock offset: 0.017 ms

Remote clock offset: -0.5 ms

# Below is generated by plot.py at 2018-02-05 00:25:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 31.204 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 56.37 Mbit/s

95th percentile per-packet one-way delay: 31.140 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 39.69 Mbit/s

95th percentile per-packet one-way delay: 31.196 ms

Loss rate: 0.12%

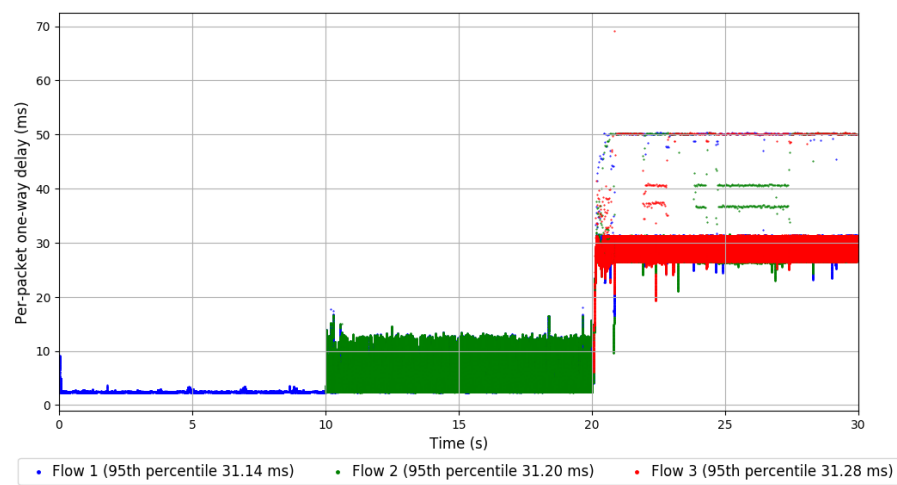
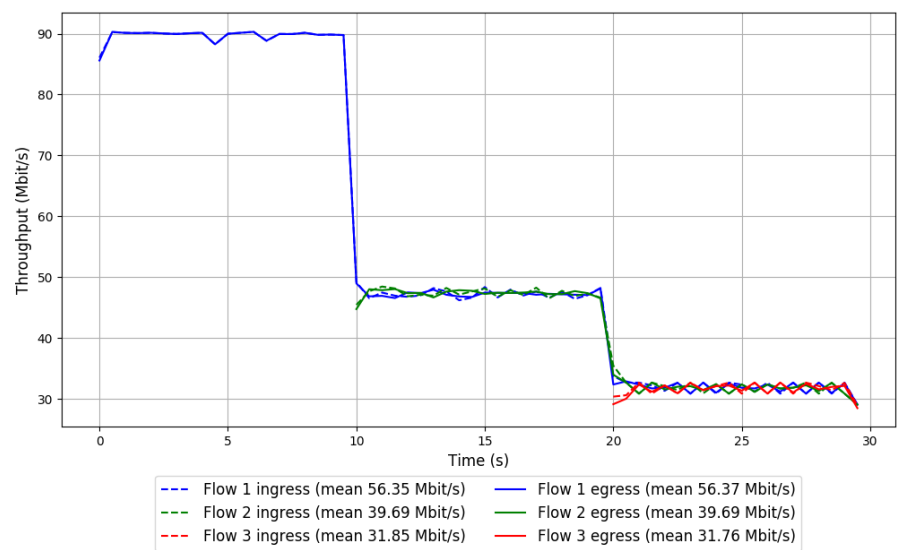
-- Flow 3:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 31.276 ms

Loss rate: 0.43%

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

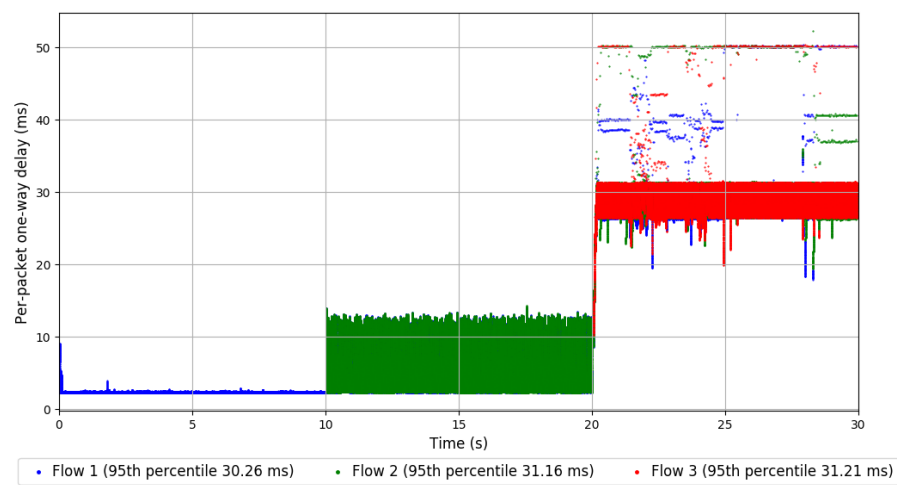
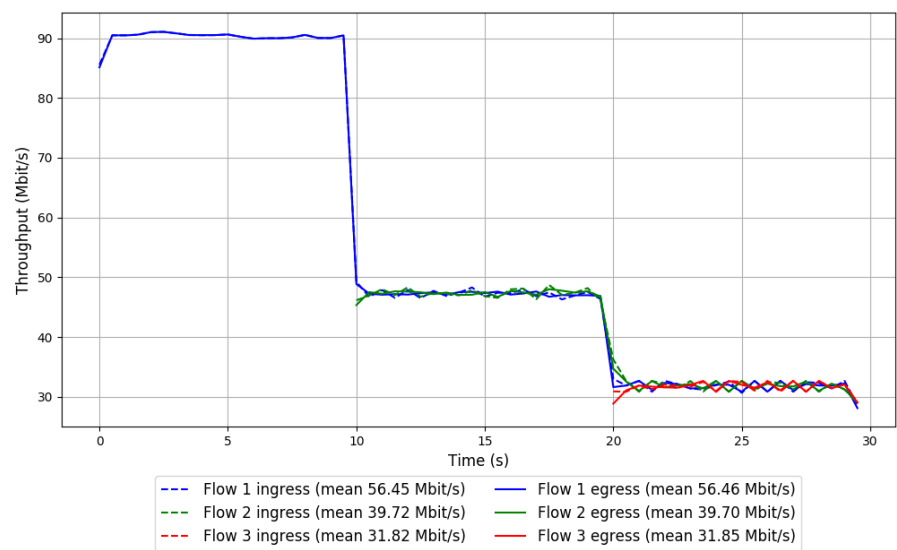


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-04 18:04:10  
End at: 2018-02-04 18:04:40  
Local clock offset: 0.045 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-02-05 00:25:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.41 Mbit/s  
95th percentile per-packet one-way delay: 31.124 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 56.46 Mbit/s  
95th percentile per-packet one-way delay: 30.257 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 39.70 Mbit/s  
95th percentile per-packet one-way delay: 31.160 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.85 Mbit/s  
95th percentile per-packet one-way delay: 31.212 ms  
Loss rate: 0.29%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-04 18:24:36

End at: 2018-02-04 18:25:06

Local clock offset: 0.044 ms

Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2018-02-05 00:25:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 31.145 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 56.41 Mbit/s

95th percentile per-packet one-way delay: 30.997 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 31.194 ms

Loss rate: 0.12%

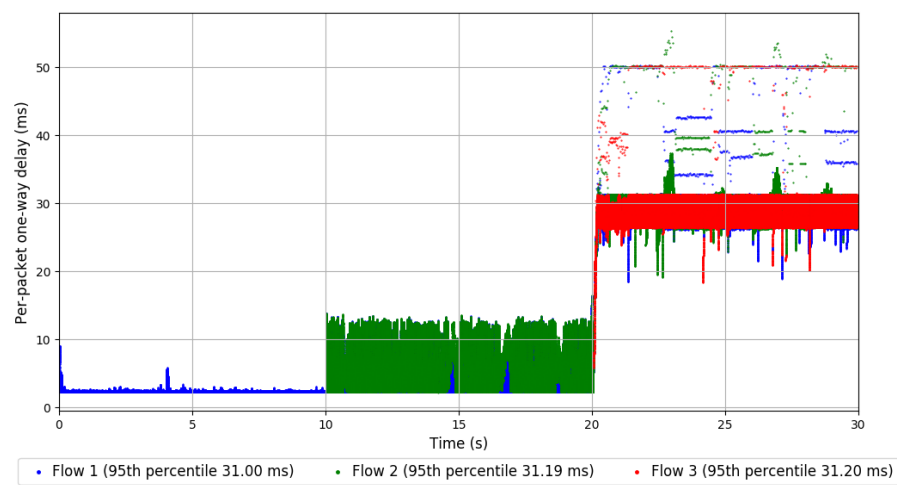
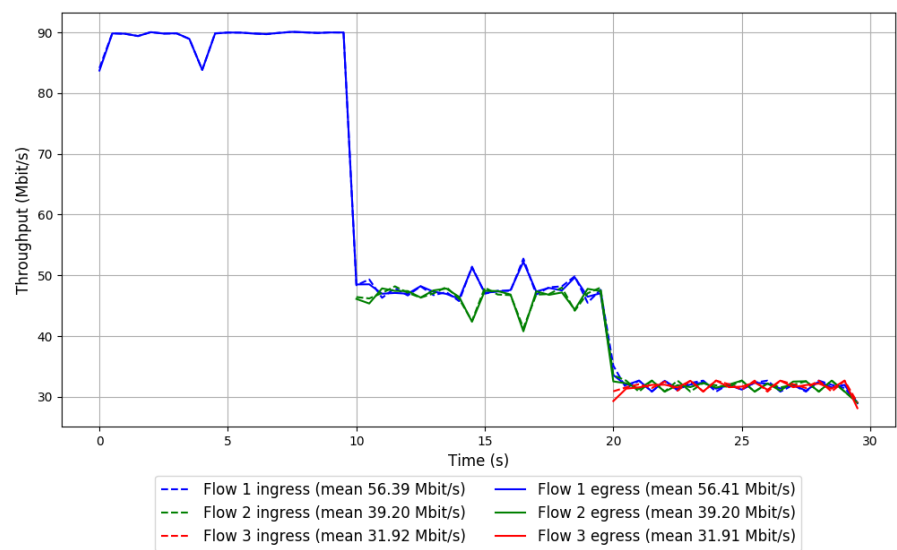
-- Flow 3:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 31.203 ms

Loss rate: 0.43%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-04 18:44:59

End at: 2018-02-04 18:45:29

Local clock offset: -0.043 ms

Remote clock offset: 1.478 ms

# Below is generated by plot.py at 2018-02-05 00:25:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.96 Mbit/s

95th percentile per-packet one-way delay: 31.105 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 54.76 Mbit/s

95th percentile per-packet one-way delay: 31.027 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 40.03 Mbit/s

95th percentile per-packet one-way delay: 31.118 ms

Loss rate: 0.12%

-- Flow 3:

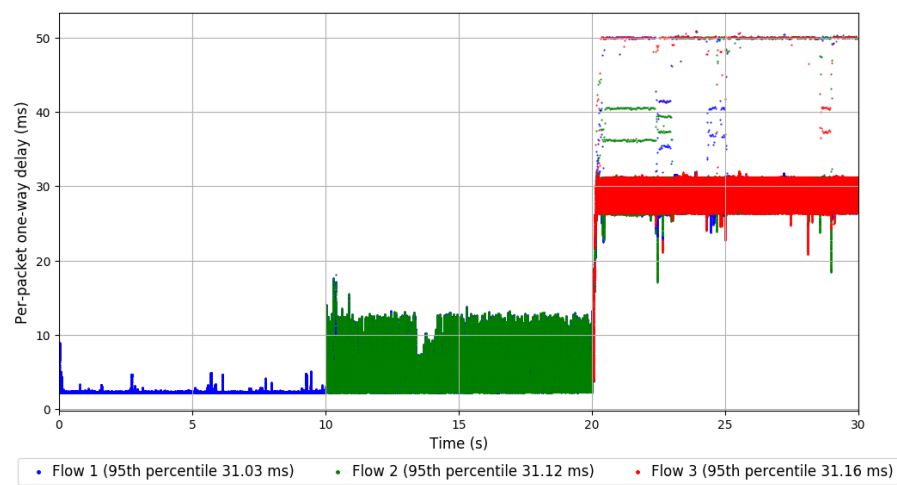
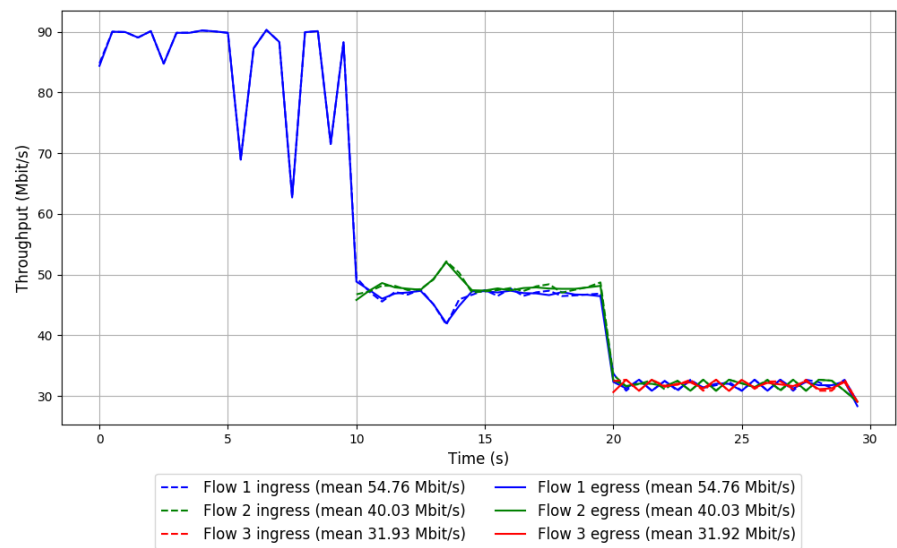
Average throughput: 31.92 Mbit/s

95th percentile per-packet one-way delay: 31.163 ms

Loss rate: 0.30%



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

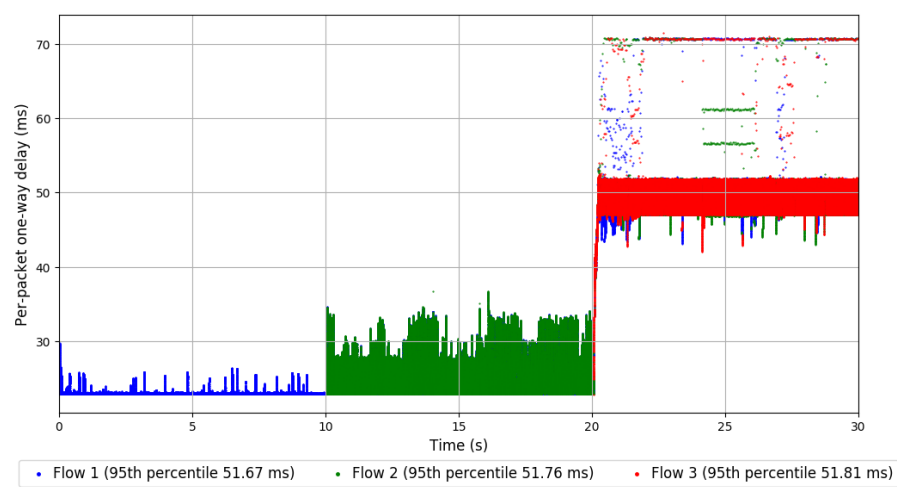
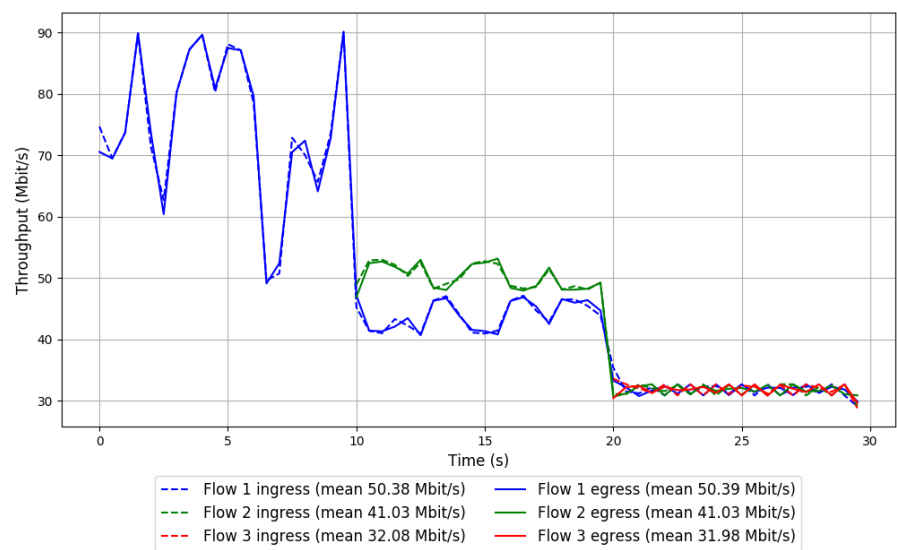


Run 6: Statistics of TaoVA-100x

Start at: 2018-02-04 19:05:23  
End at: 2018-02-04 19:05:53  
Local clock offset: 0.048 ms  
Remote clock offset: -17.931 ms

# Below is generated by plot.py at 2018-02-05 00:25:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.28 Mbit/s  
95th percentile per-packet one-way delay: 51.751 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 50.39 Mbit/s  
95th percentile per-packet one-way delay: 51.673 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 41.03 Mbit/s  
95th percentile per-packet one-way delay: 51.761 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 31.98 Mbit/s  
95th percentile per-packet one-way delay: 51.811 ms  
Loss rate: 0.43%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-04 19:25:50

End at: 2018-02-04 19:26:20

Local clock offset: -0.023 ms

Remote clock offset: 3.335 ms

# Below is generated by plot.py at 2018-02-05 00:26:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 30.037 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 58.13 Mbit/s

95th percentile per-packet one-way delay: 28.703 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 42.01 Mbit/s

95th percentile per-packet one-way delay: 30.372 ms

Loss rate: 0.04%

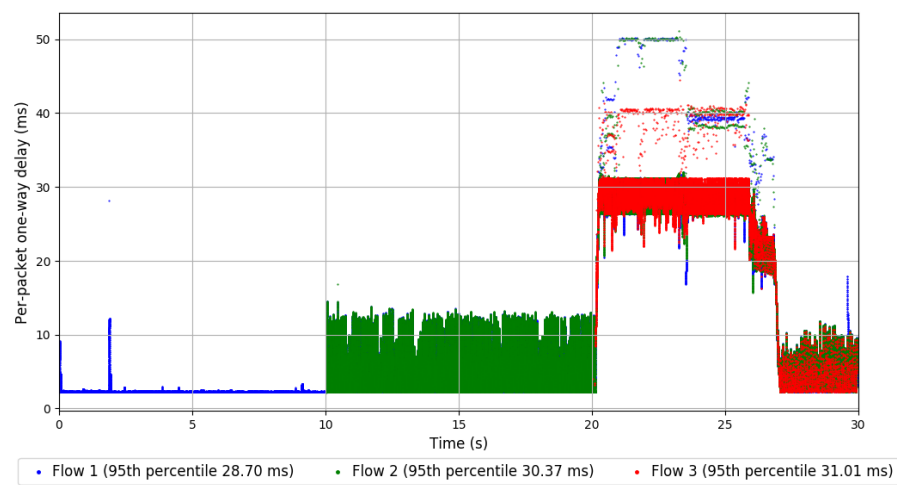
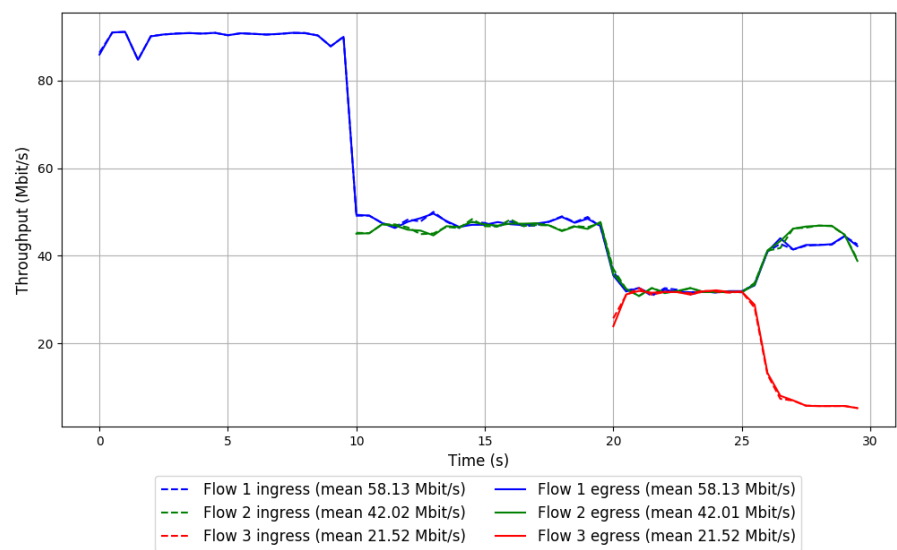
-- Flow 3:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 31.009 ms

Loss rate: 0.02%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-04 19:46:14

End at: 2018-02-04 19:46:44

Local clock offset: 0.044 ms

Remote clock offset: 2.841 ms

# Below is generated by plot.py at 2018-02-05 00:26:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 31.118 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 57.52 Mbit/s

95th percentile per-packet one-way delay: 30.623 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 37.53 Mbit/s

95th percentile per-packet one-way delay: 31.127 ms

Loss rate: 0.12%

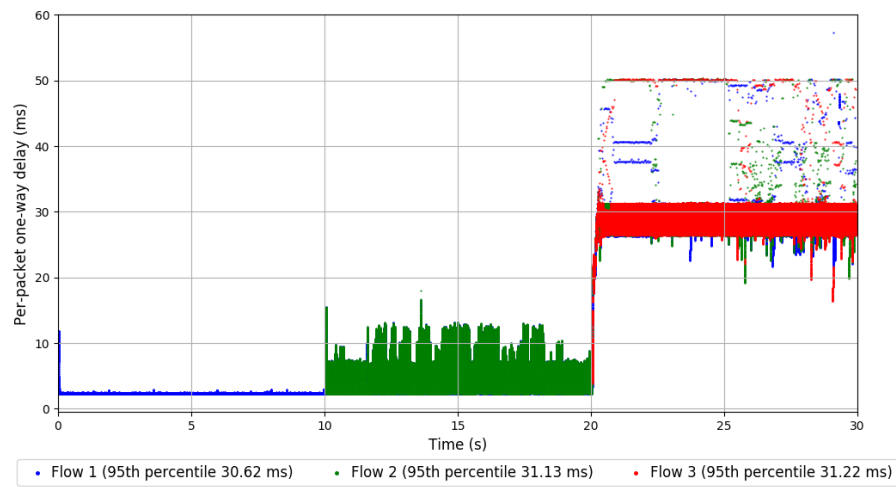
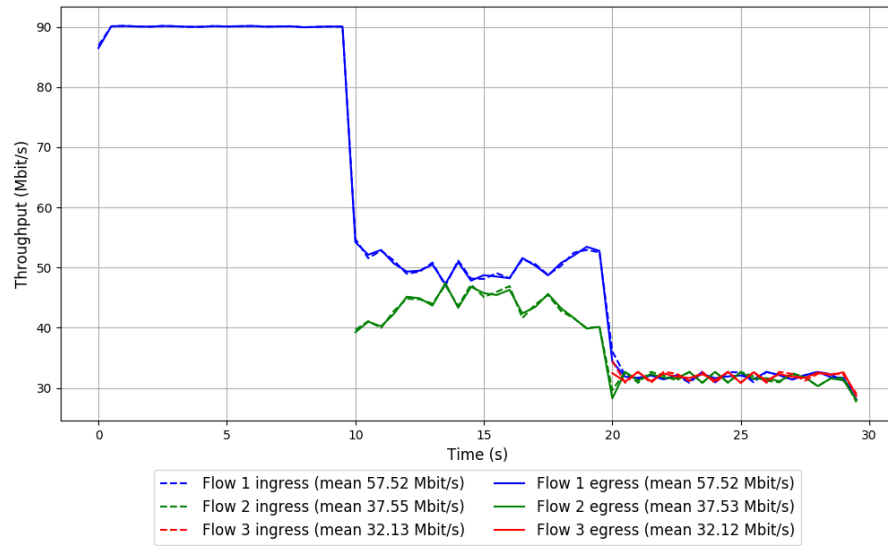
-- Flow 3:

Average throughput: 32.12 Mbit/s

95th percentile per-packet one-way delay: 31.216 ms

Loss rate: 0.29%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-04 20:06:40

End at: 2018-02-04 20:07:10

Local clock offset: 0.013 ms

Remote clock offset: 2.474 ms

# Below is generated by plot.py at 2018-02-05 00:27:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.16 Mbit/s

95th percentile per-packet one-way delay: 31.108 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 51.01 Mbit/s

95th percentile per-packet one-way delay: 31.008 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 41.47 Mbit/s

95th percentile per-packet one-way delay: 31.122 ms

Loss rate: 0.11%

-- Flow 3:

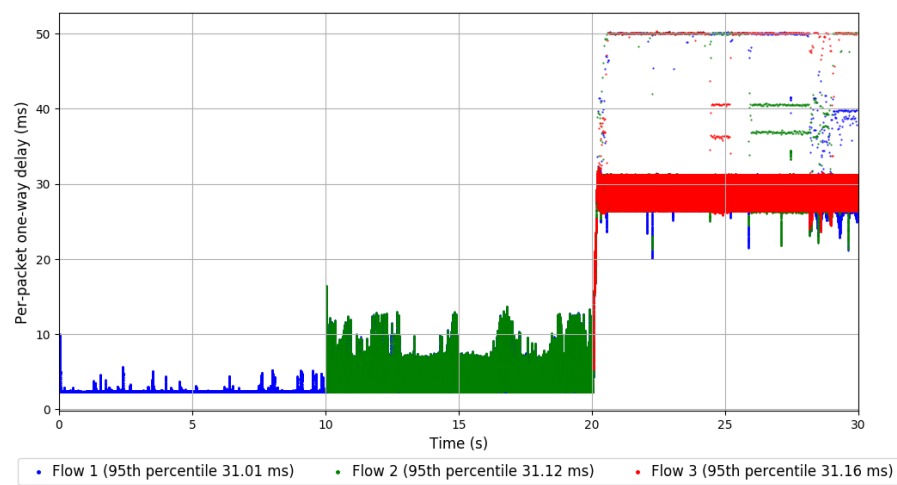
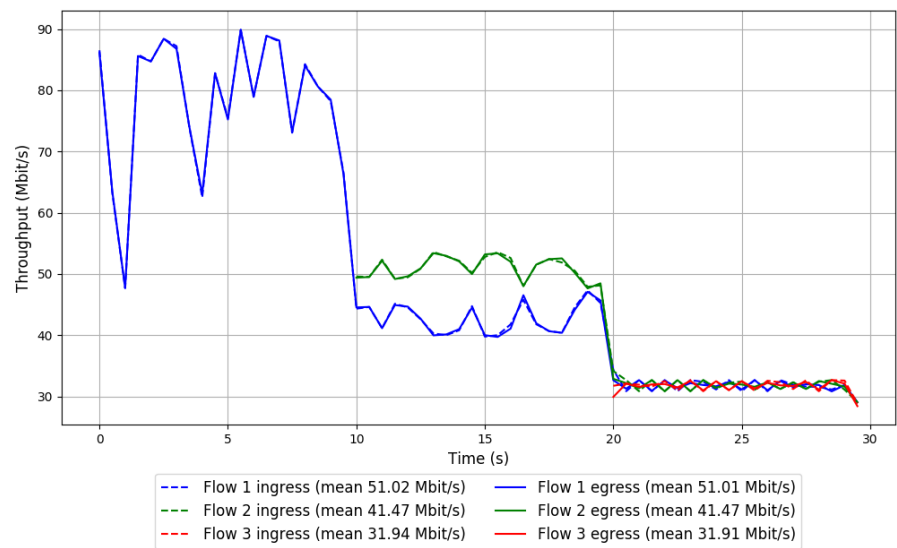
Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 31.163 ms

Loss rate: 0.43%



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

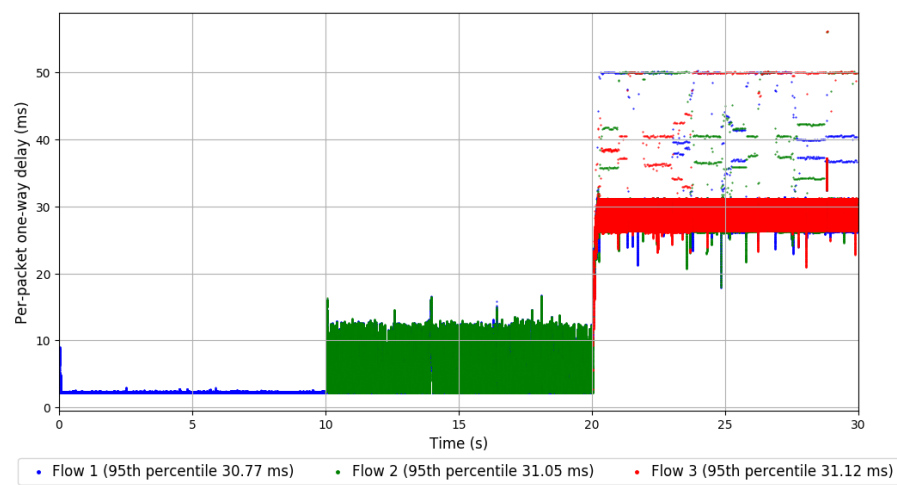
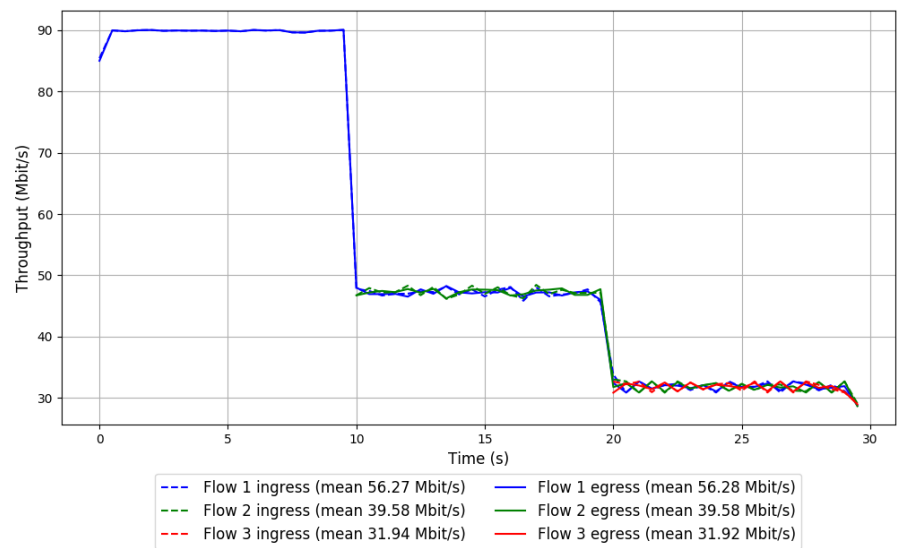


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-04 20:27:10
End at: 2018-02-04 20:27:40
Local clock offset: -0.003 ms
Remote clock offset: 2.39 ms

# Below is generated by plot.py at 2018-02-05 00:28:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: 31.040 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 56.28 Mbit/s
95th percentile per-packet one-way delay: 30.766 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.58 Mbit/s
95th percentile per-packet one-way delay: 31.051 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 31.119 ms
Loss rate: 0.29%
```

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

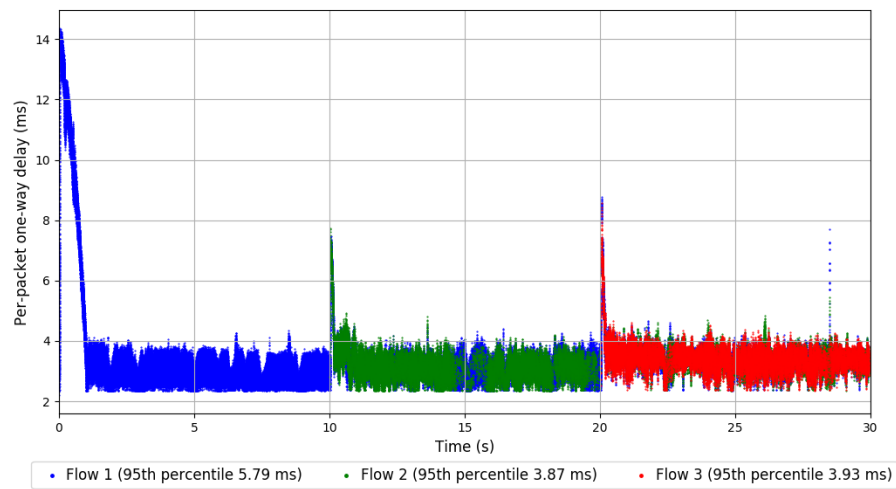
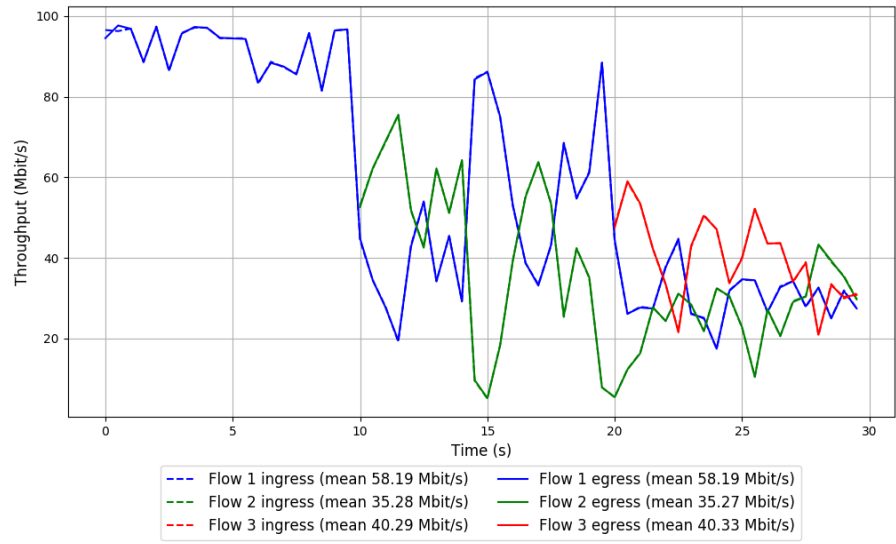


Run 1: Statistics of TCP Vegas

Start at: 2018-02-04 17:31:07  
End at: 2018-02-04 17:31:37  
Local clock offset: 0.032 ms  
Remote clock offset: -0.688 ms

# Below is generated by plot.py at 2018-02-05 00:28:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.01 Mbit/s  
95th percentile per-packet one-way delay: 4.046 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 58.19 Mbit/s  
95th percentile per-packet one-way delay: 5.795 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 35.27 Mbit/s  
95th percentile per-packet one-way delay: 3.866 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 40.33 Mbit/s  
95th percentile per-packet one-way delay: 3.926 ms  
Loss rate: 0.05%

# Run 1: Report of TCP Vegas — Data Link

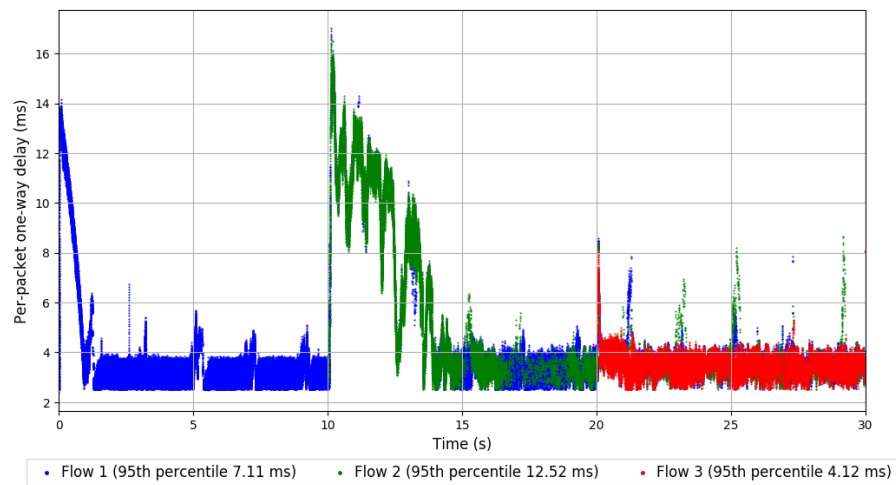
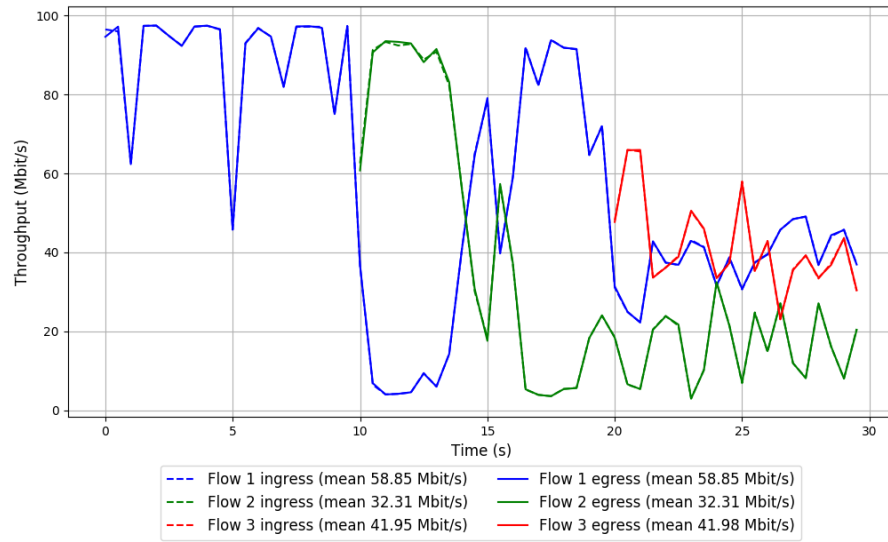


Run 2: Statistics of TCP Vegas

Start at: 2018-02-04 17:51:38  
End at: 2018-02-04 17:52:08  
Local clock offset: 0.013 ms  
Remote clock offset: -0.463 ms

# Below is generated by plot.py at 2018-02-05 00:28:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.27 Mbit/s  
95th percentile per-packet one-way delay: 11.131 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 58.85 Mbit/s  
95th percentile per-packet one-way delay: 7.112 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 32.31 Mbit/s  
95th percentile per-packet one-way delay: 12.517 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 41.98 Mbit/s  
95th percentile per-packet one-way delay: 4.123 ms  
Loss rate: 0.03%

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



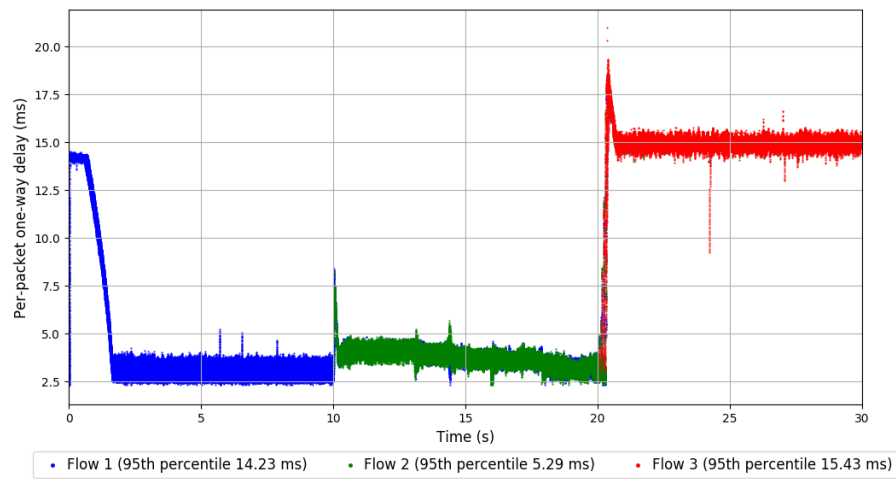
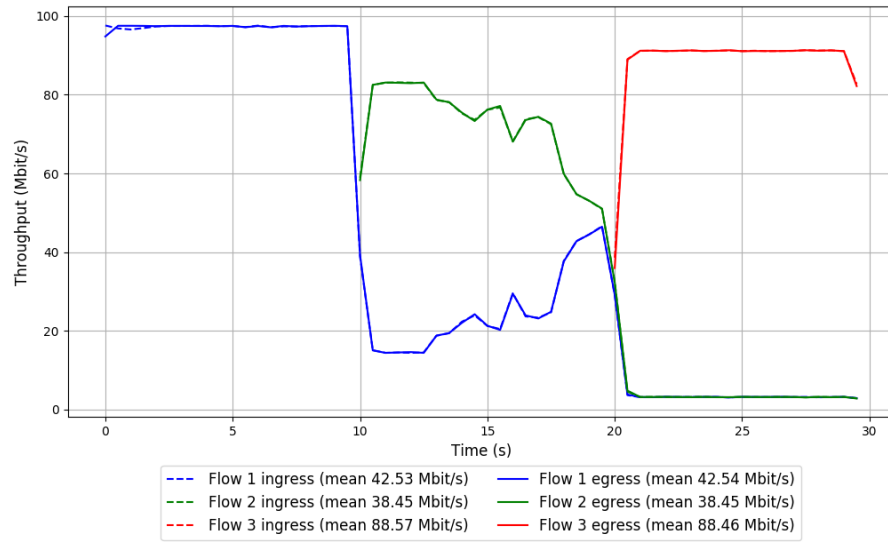
Run 3: Statistics of TCP Vegas

Start at: 2018-02-04 18:12:02  
End at: 2018-02-04 18:12:32  
Local clock offset: -0.035 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-02-05 00:28:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 15.239 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 42.54 Mbit/s  
95th percentile per-packet one-way delay: 14.230 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.45 Mbit/s  
95th percentile per-packet one-way delay: 5.293 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 88.46 Mbit/s  
95th percentile per-packet one-way delay: 15.425 ms  
Loss rate: 0.19%



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



Run 4: Statistics of TCP Vegas

Start at: 2018-02-04 18:32:27

End at: 2018-02-04 18:32:57

Local clock offset: 0.067 ms

Remote clock offset: 0.367 ms

# Below is generated by plot.py at 2018-02-05 00:28:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 6.238 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 12.867 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.98 Mbit/s

95th percentile per-packet one-way delay: 4.146 ms

Loss rate: 0.02%

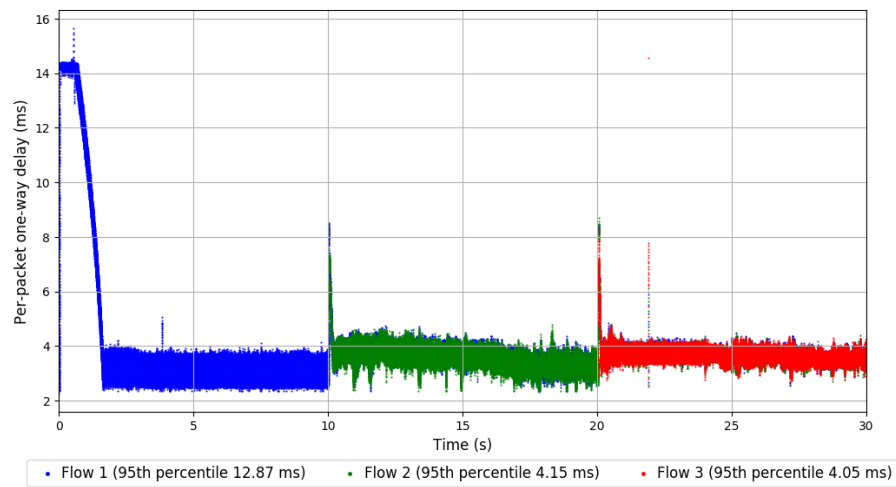
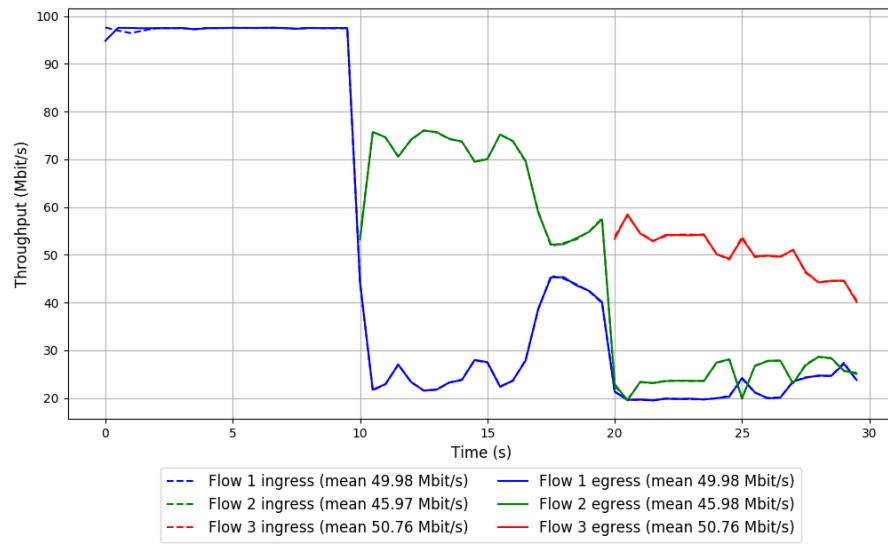
-- Flow 3:

Average throughput: 50.76 Mbit/s

95th percentile per-packet one-way delay: 4.047 ms

Loss rate: 0.05%

# Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-04 18:52:54

End at: 2018-02-04 18:53:24

Local clock offset: 0.031 ms

Remote clock offset: 2.237 ms

# Below is generated by plot.py at 2018-02-05 00:28:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.28 Mbit/s

95th percentile per-packet one-way delay: 13.292 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 14.344 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.85 Mbit/s

95th percentile per-packet one-way delay: 4.050 ms

Loss rate: 0.02%

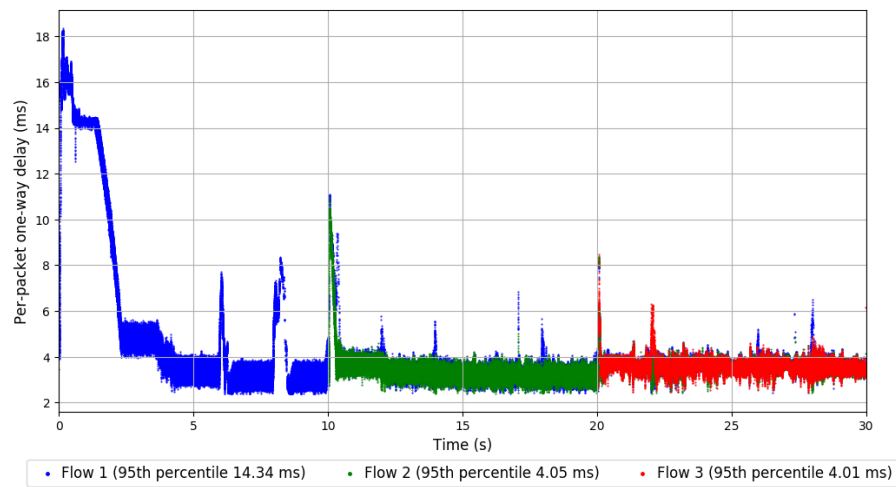
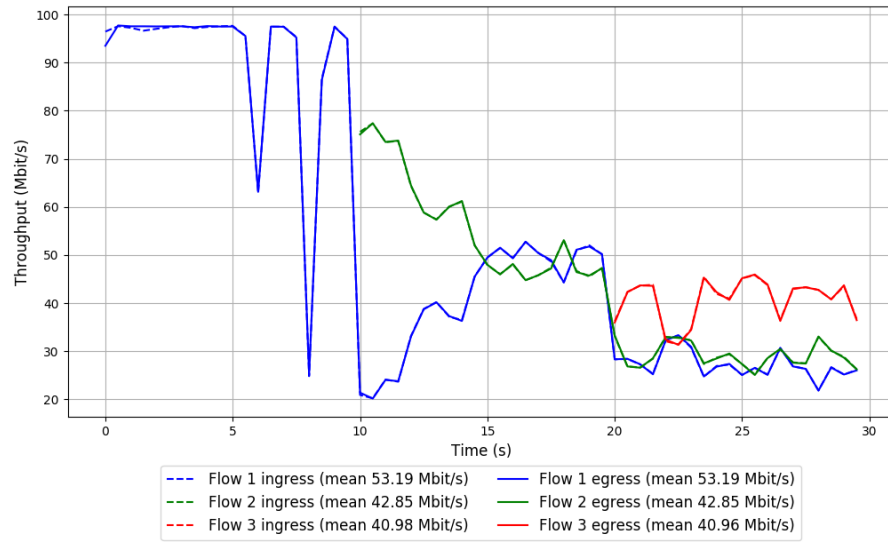
-- Flow 3:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 4.006 ms

Loss rate: 0.05%

# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-04 19:13:18

End at: 2018-02-04 19:13:48

Local clock offset: 0.061 ms

Remote clock offset: 2.91 ms

# Below is generated by plot.py at 2018-02-05 00:28:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 8.709 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.95 Mbit/s

95th percentile per-packet one-way delay: 6.694 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.93 Mbit/s

95th percentile per-packet one-way delay: 15.558 ms

Loss rate: 0.02%

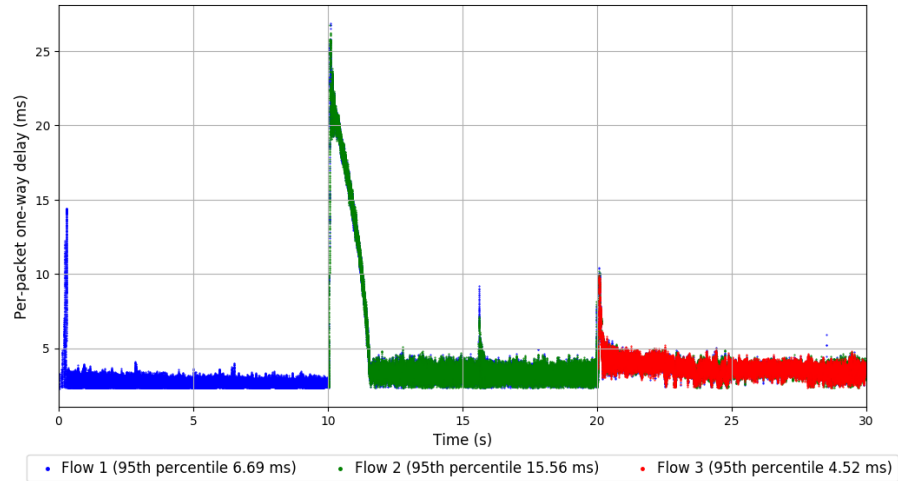
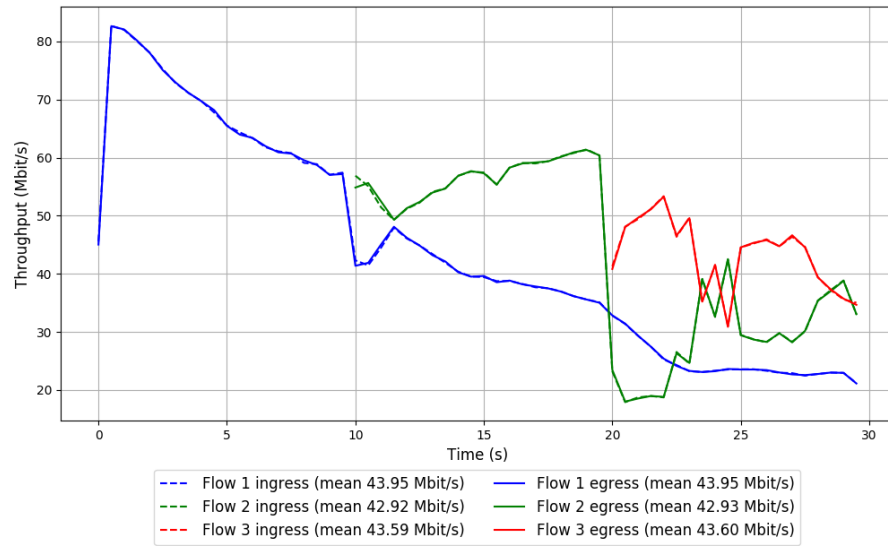
-- Flow 3:

Average throughput: 43.60 Mbit/s

95th percentile per-packet one-way delay: 4.517 ms

Loss rate: 0.05%

# Run 6: Report of TCP Vegas — Data Link



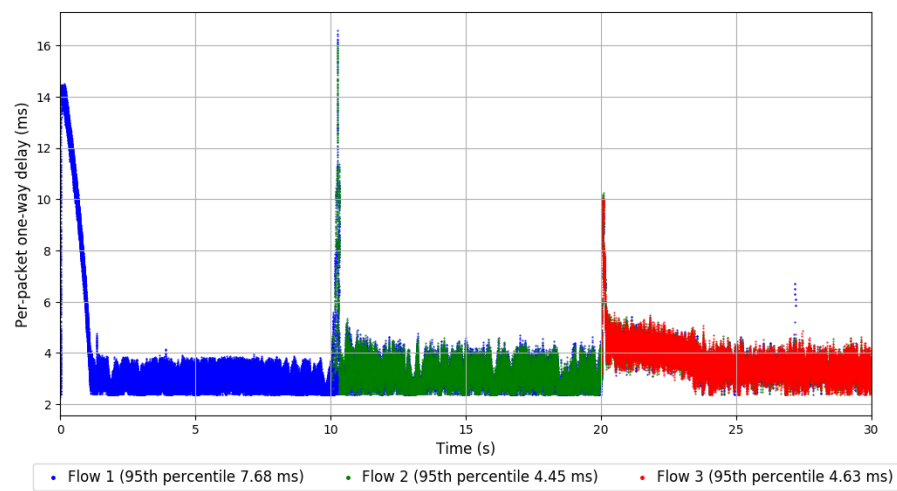
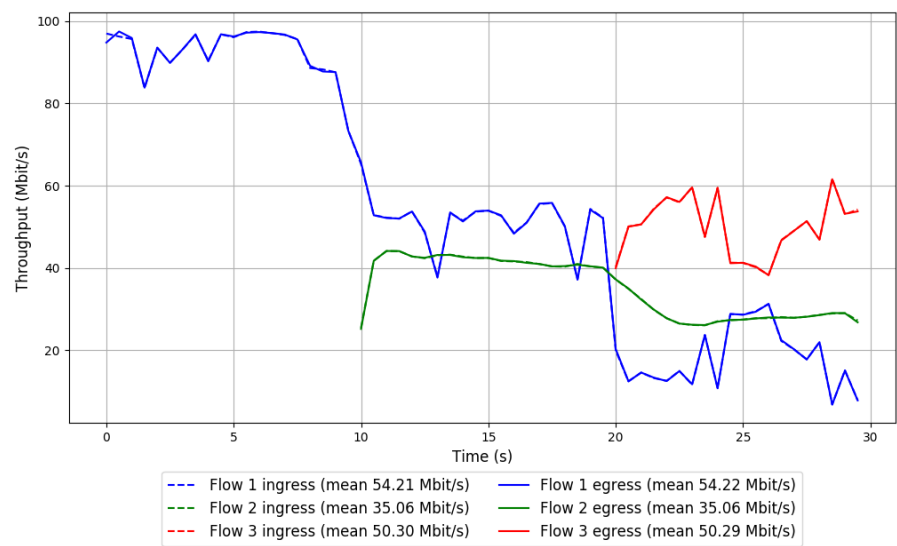
Run 7: Statistics of TCP Vegas

Start at: 2018-02-04 19:33:44  
End at: 2018-02-04 19:34:14  
Local clock offset: 0.064 ms  
Remote clock offset: 3.224 ms

# Below is generated by plot.py at 2018-02-05 00:28:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.23 Mbit/s  
95th percentile per-packet one-way delay: 4.764 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 54.22 Mbit/s  
95th percentile per-packet one-way delay: 7.679 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.06 Mbit/s  
95th percentile per-packet one-way delay: 4.447 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 50.29 Mbit/s  
95th percentile per-packet one-way delay: 4.632 ms  
Loss rate: 0.08%



Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-04 19:54:08

End at: 2018-02-04 19:54:39

Local clock offset: 0.042 ms

Remote clock offset: 2.648 ms

# Below is generated by plot.py at 2018-02-05 00:28:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 3.818 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 48.69 Mbit/s

95th percentile per-packet one-way delay: 3.746 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.70 Mbit/s

95th percentile per-packet one-way delay: 3.833 ms

Loss rate: 0.02%

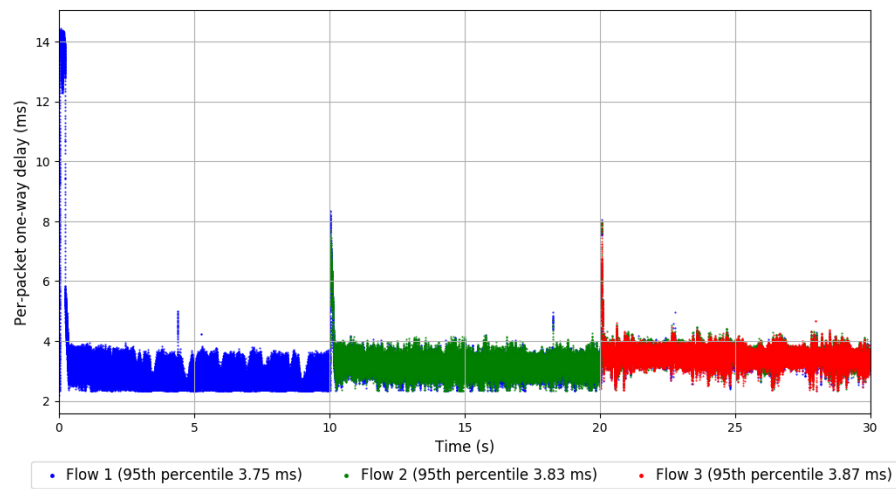
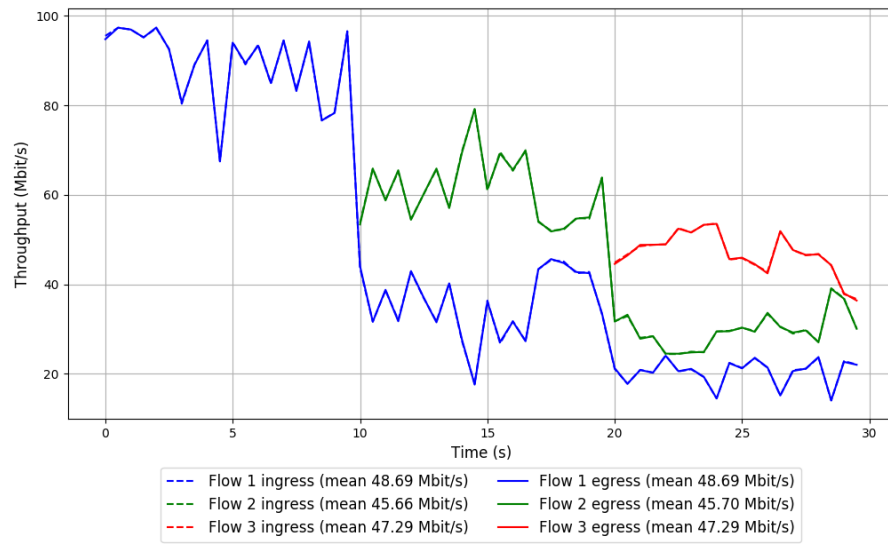
-- Flow 3:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 3.872 ms

Loss rate: 0.05%

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

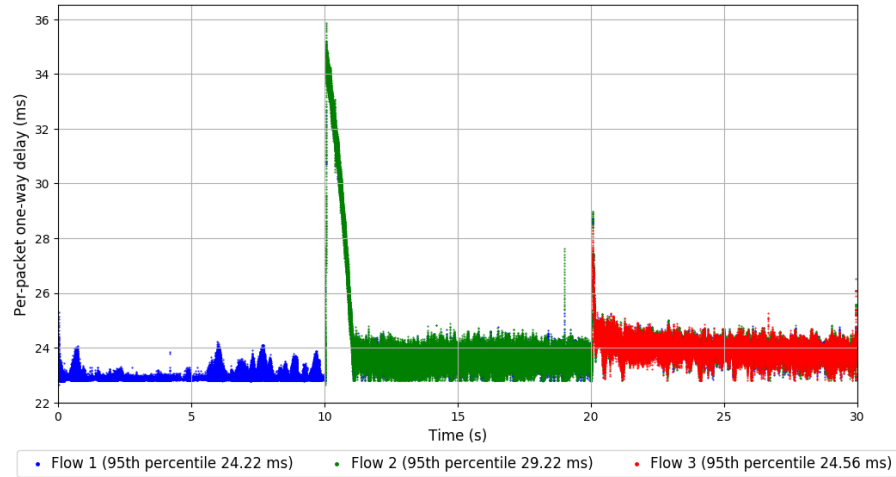
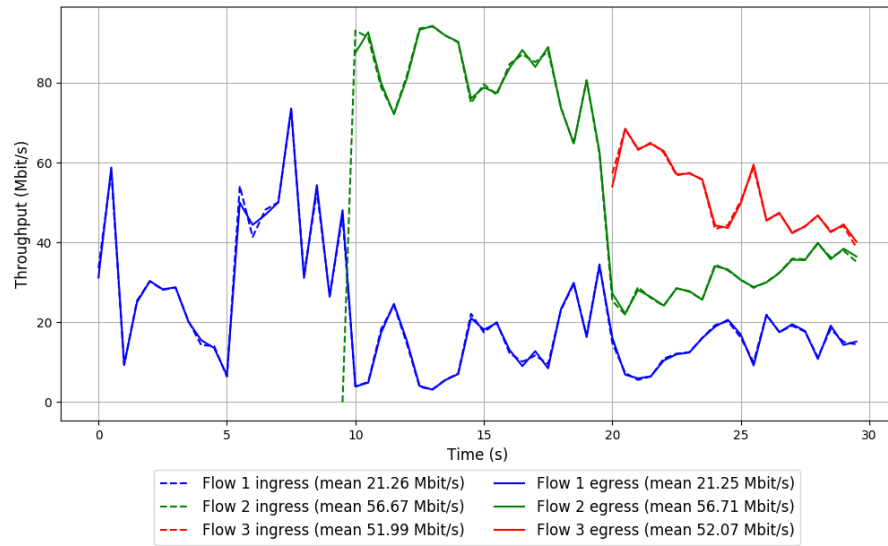


Run 9: Statistics of TCP Vegas

Start at: 2018-02-04 20:14:39  
End at: 2018-02-04 20:15:09  
Local clock offset: 0.043 ms  
Remote clock offset: -18.104 ms

# Below is generated by plot.py at 2018-02-05 00:28:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.29 Mbit/s  
95th percentile per-packet one-way delay: 24.739 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 21.25 Mbit/s  
95th percentile per-packet one-way delay: 24.217 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 56.71 Mbit/s  
95th percentile per-packet one-way delay: 29.223 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 52.07 Mbit/s  
95th percentile per-packet one-way delay: 24.563 ms  
Loss rate: 0.04%

# Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-04 20:35:04

End at: 2018-02-04 20:35:34

Local clock offset: -0.029 ms

Remote clock offset: 2.359 ms

# Below is generated by plot.py at 2018-02-05 00:28:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.13 Mbit/s

95th percentile per-packet one-way delay: 4.308 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 51.48 Mbit/s

95th percentile per-packet one-way delay: 4.315 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.86 Mbit/s

95th percentile per-packet one-way delay: 4.342 ms

Loss rate: 0.02%

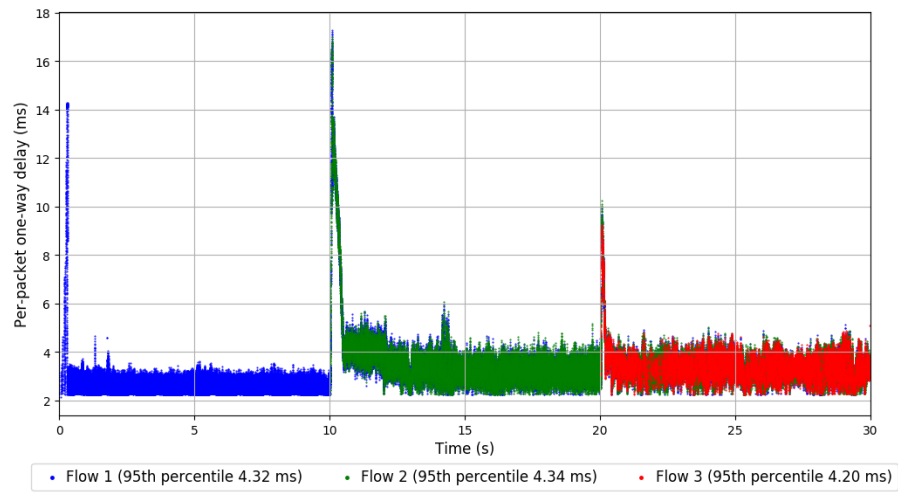
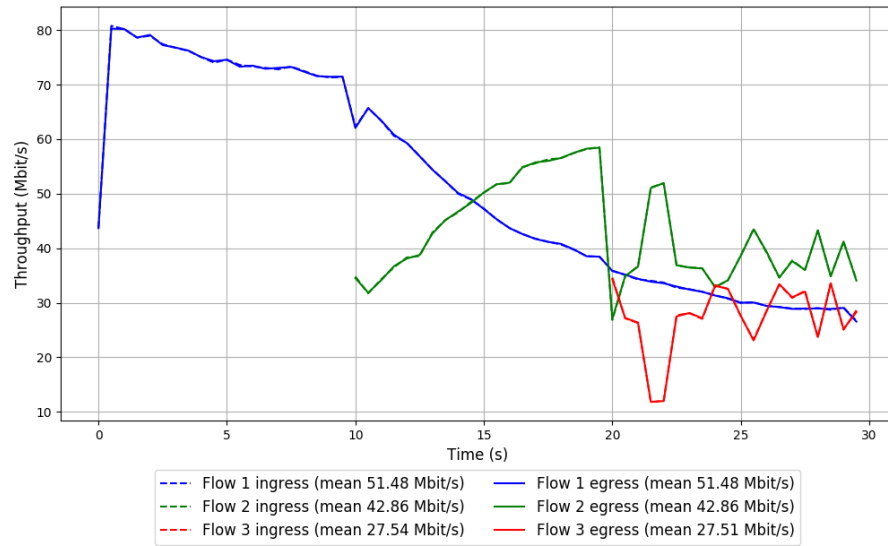
-- Flow 3:

Average throughput: 27.51 Mbit/s

95th percentile per-packet one-way delay: 4.197 ms

Loss rate: 0.12%

# Run 10: Report of TCP Vegas — Data Link



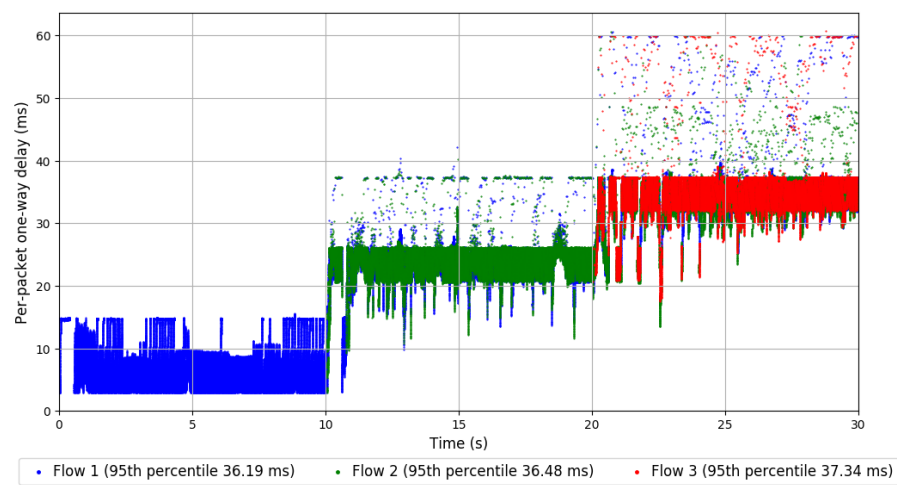
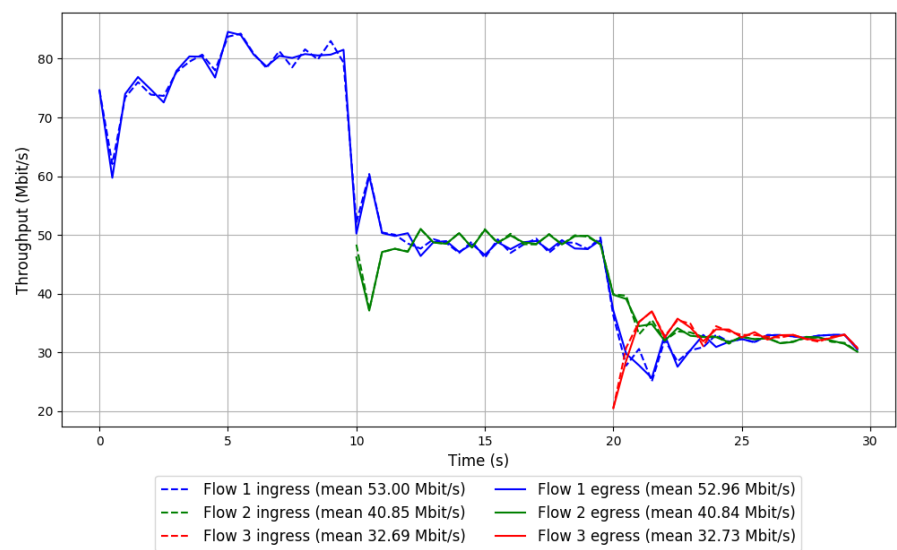
Run 1: Statistics of Verus

Start at: 2018-02-04 17:33:25  
End at: 2018-02-04 17:33:55  
Local clock offset: -0.009 ms  
Remote clock offset: -1.313 ms

# Below is generated by plot.py at 2018-02-05 00:29:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.95 Mbit/s  
95th percentile per-packet one-way delay: 37.073 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 52.96 Mbit/s  
95th percentile per-packet one-way delay: 36.193 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 40.84 Mbit/s  
95th percentile per-packet one-way delay: 36.479 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.73 Mbit/s  
95th percentile per-packet one-way delay: 37.336 ms  
Loss rate: 0.35%



Run 1: Report of Verus — Data Link

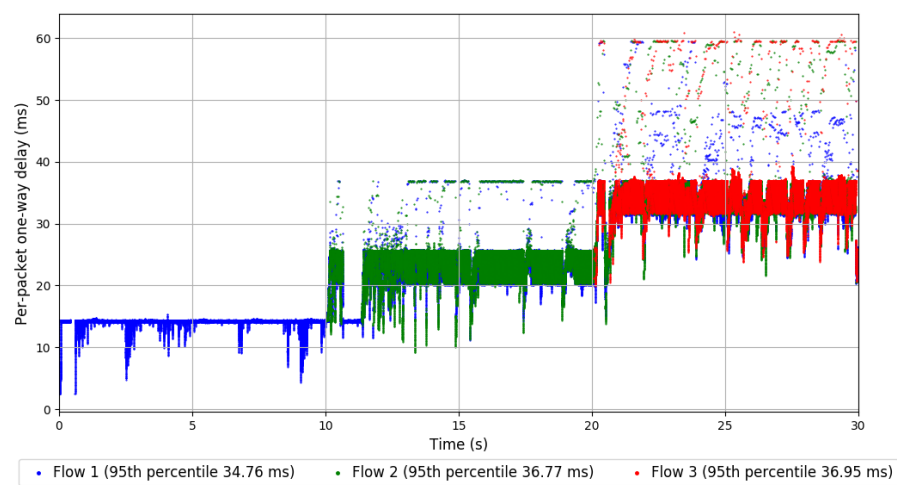
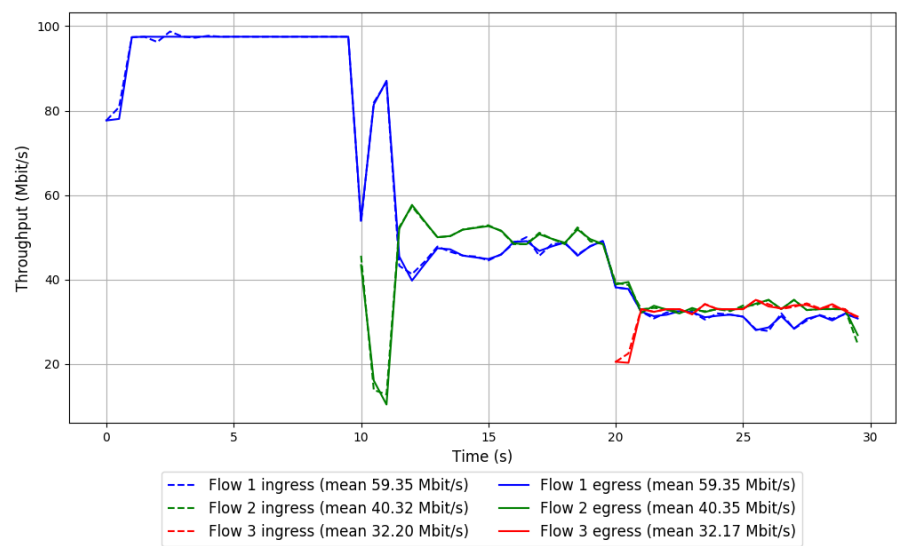


Run 2: Statistics of Verus

Start at: 2018-02-04 17:53:53  
End at: 2018-02-04 17:54:23  
Local clock offset: 0.049 ms  
Remote clock offset: -0.393 ms

# Below is generated by plot.py at 2018-02-05 00:29:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.83 Mbit/s  
95th percentile per-packet one-way delay: 36.568 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 59.35 Mbit/s  
95th percentile per-packet one-way delay: 34.758 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.35 Mbit/s  
95th percentile per-packet one-way delay: 36.766 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 32.17 Mbit/s  
95th percentile per-packet one-way delay: 36.953 ms  
Loss rate: 0.35%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-04 18:14:18

End at: 2018-02-04 18:14:48

Local clock offset: -0.02 ms

Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2018-02-05 00:29:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.00 Mbit/s

95th percentile per-packet one-way delay: 36.424 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 53.47 Mbit/s

95th percentile per-packet one-way delay: 35.825 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 40.64 Mbit/s

95th percentile per-packet one-way delay: 36.515 ms

Loss rate: 0.14%

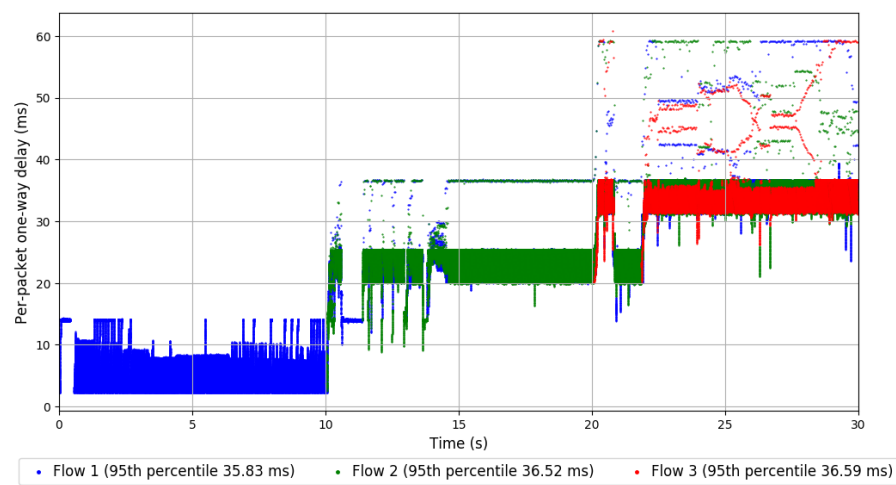
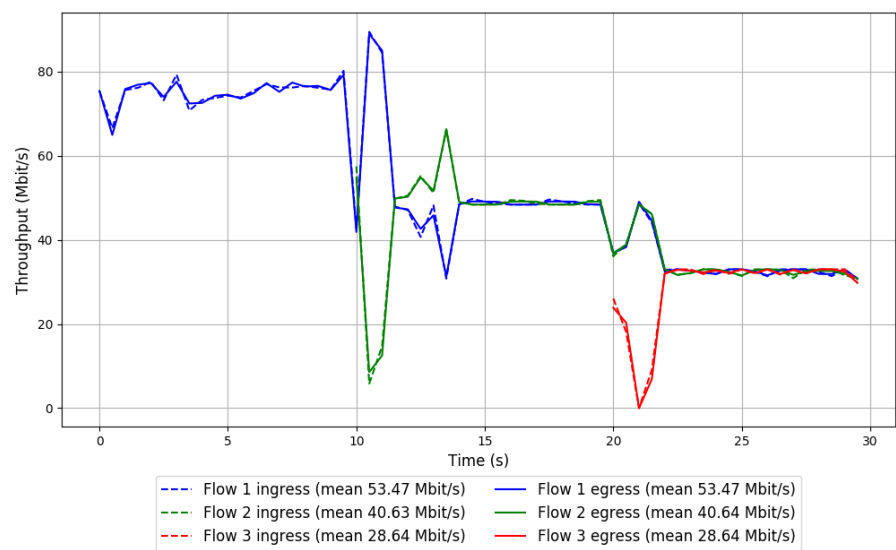
-- Flow 3:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 36.591 ms

Loss rate: 0.56%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-04 18:34:43

End at: 2018-02-04 18:35:13

Local clock offset: 0.056 ms

Remote clock offset: 0.407 ms

# Below is generated by plot.py at 2018-02-05 00:29:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.85 Mbit/s

95th percentile per-packet one-way delay: 36.208 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 51.02 Mbit/s

95th percentile per-packet one-way delay: 35.182 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 41.77 Mbit/s

95th percentile per-packet one-way delay: 36.144 ms

Loss rate: 0.17%

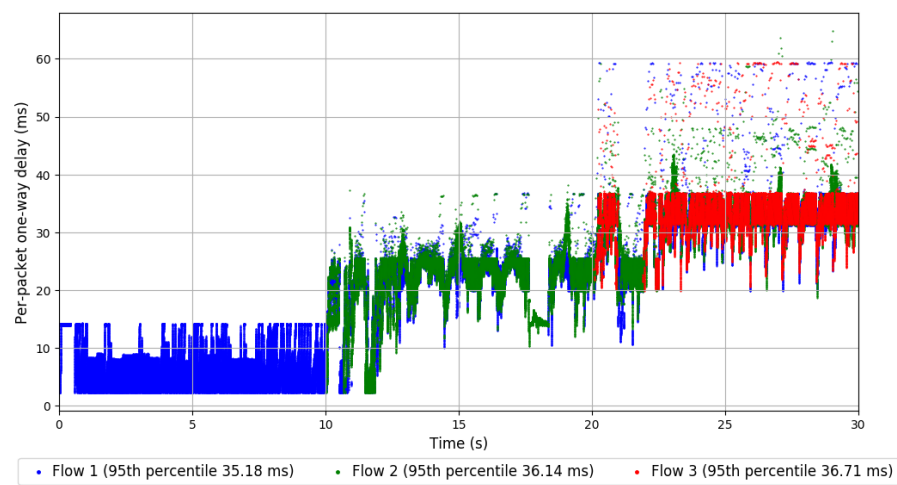
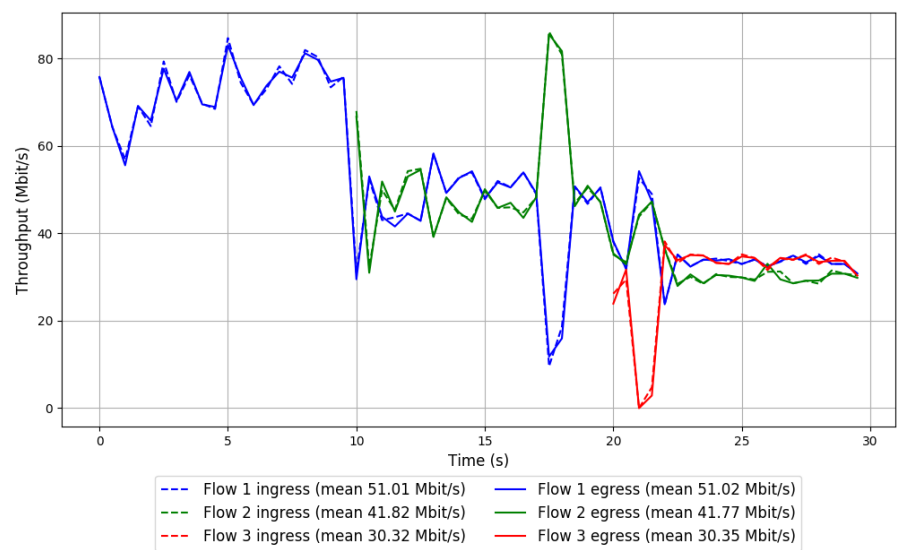
-- Flow 3:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 36.714 ms

Loss rate: 0.37%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-04 18:55:10

End at: 2018-02-04 18:55:40

Local clock offset: 0.027 ms

Remote clock offset: 2.41 ms

# Below is generated by plot.py at 2018-02-05 00:29:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 88.15 Mbit/s

95th percentile per-packet one-way delay: 36.550 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 50.16 Mbit/s

95th percentile per-packet one-way delay: 35.470 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 42.78 Mbit/s

95th percentile per-packet one-way delay: 36.578 ms

Loss rate: 0.18%

-- Flow 3:

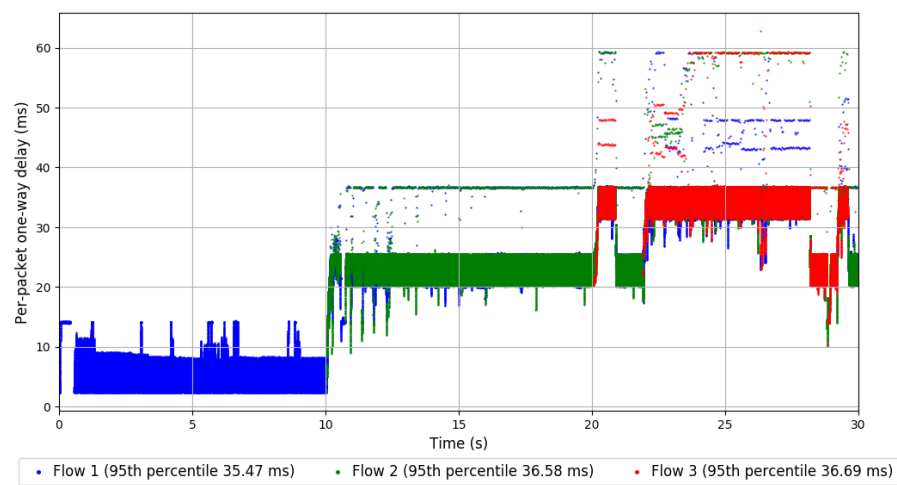
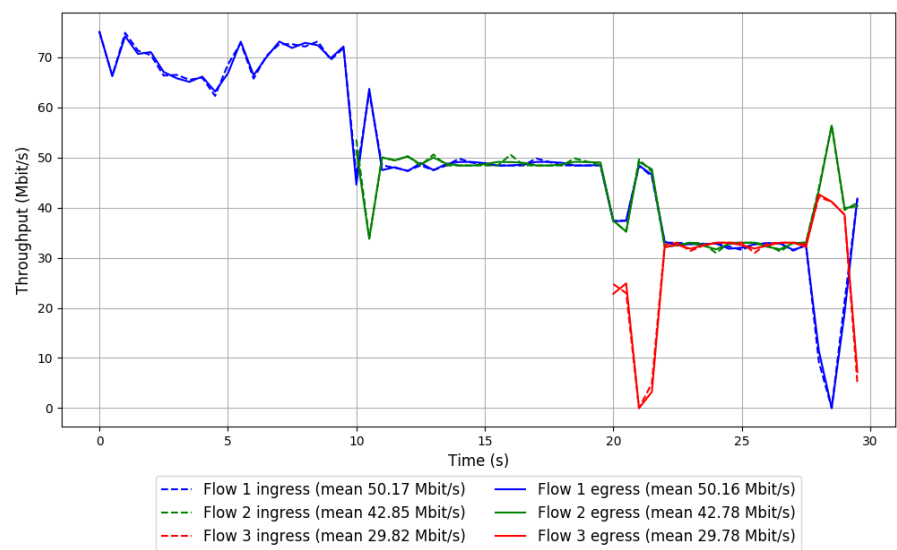
Average throughput: 29.78 Mbit/s

95th percentile per-packet one-way delay: 36.685 ms

Loss rate: 0.00%



Run 5: Report of Verus — Data Link

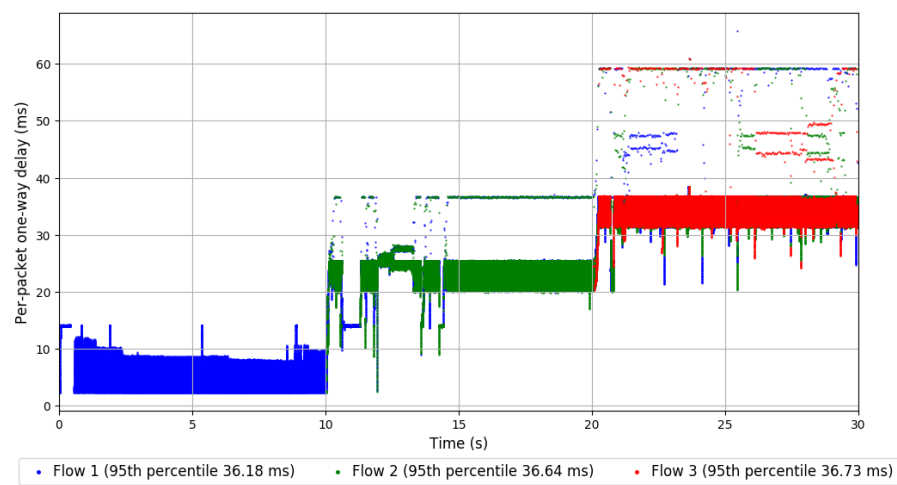
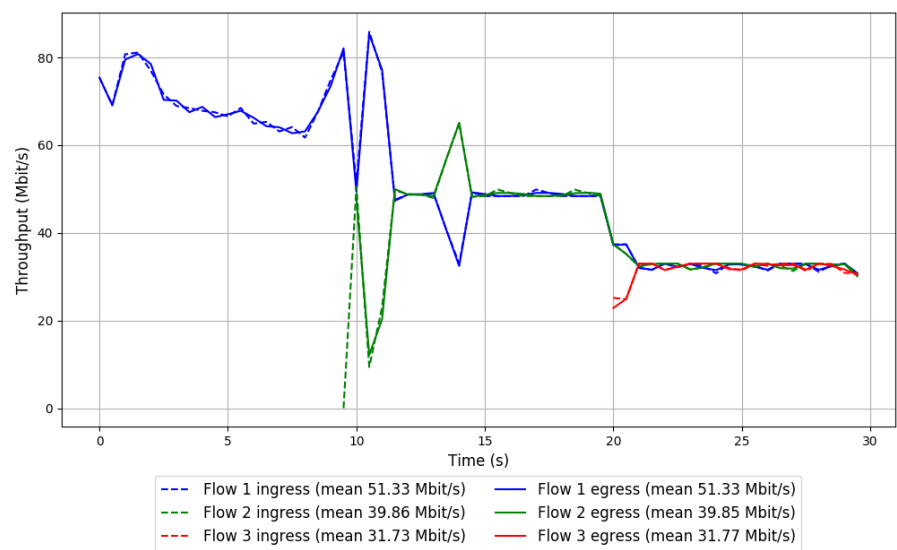


Run 6: Statistics of Verus

Start at: 2018-02-04 19:15:33  
End at: 2018-02-04 19:16:03  
Local clock offset: -0.021 ms  
Remote clock offset: 2.922 ms

# Below is generated by plot.py at 2018-02-05 00:29:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.39 Mbit/s  
95th percentile per-packet one-way delay: 36.626 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 51.33 Mbit/s  
95th percentile per-packet one-way delay: 36.180 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 39.85 Mbit/s  
95th percentile per-packet one-way delay: 36.637 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 31.77 Mbit/s  
95th percentile per-packet one-way delay: 36.725 ms  
Loss rate: 0.36%

Run 6: Report of Verus — Data Link

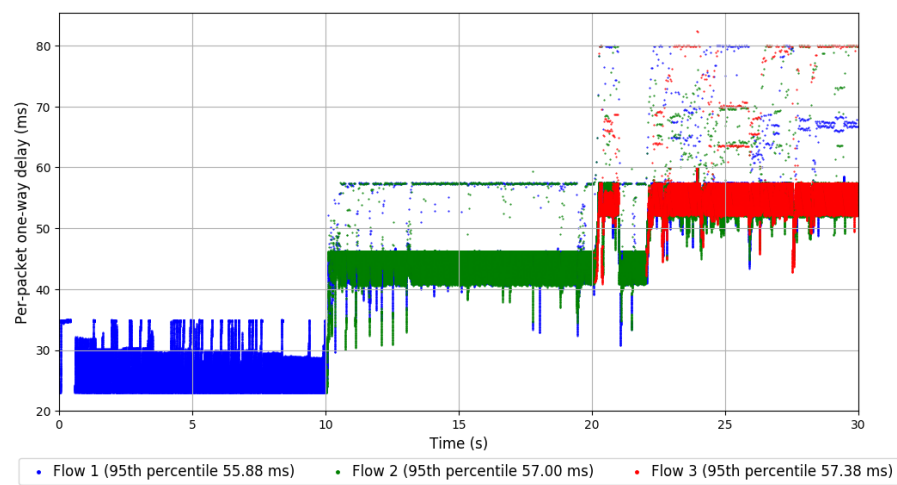
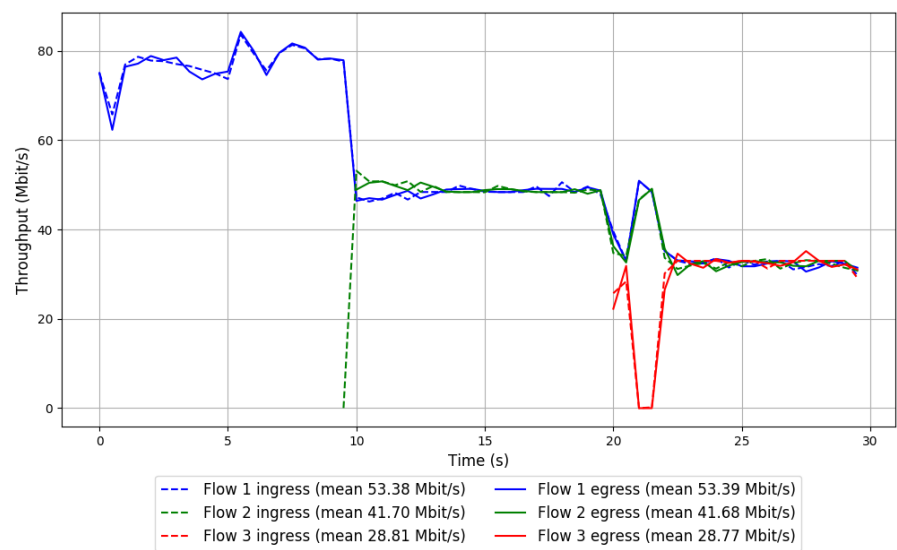


Run 7: Statistics of Verus

Start at: 2018-02-04 19:36:00  
End at: 2018-02-04 19:36:30  
Local clock offset: 0.063 ms  
Remote clock offset: -17.514 ms

# Below is generated by plot.py at 2018-02-05 00:29:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.67 Mbit/s  
95th percentile per-packet one-way delay: 57.092 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 53.39 Mbit/s  
95th percentile per-packet one-way delay: 55.878 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 41.68 Mbit/s  
95th percentile per-packet one-way delay: 57.000 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 28.77 Mbit/s  
95th percentile per-packet one-way delay: 57.380 ms  
Loss rate: 0.43%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-04 19:56:25

End at: 2018-02-04 19:56:55

Local clock offset: 0.019 ms

Remote clock offset: 2.624 ms

# Below is generated by plot.py at 2018-02-05 00:30:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 36.544 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 53.25 Mbit/s

95th percentile per-packet one-way delay: 34.943 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 36.569 ms

Loss rate: 0.14%

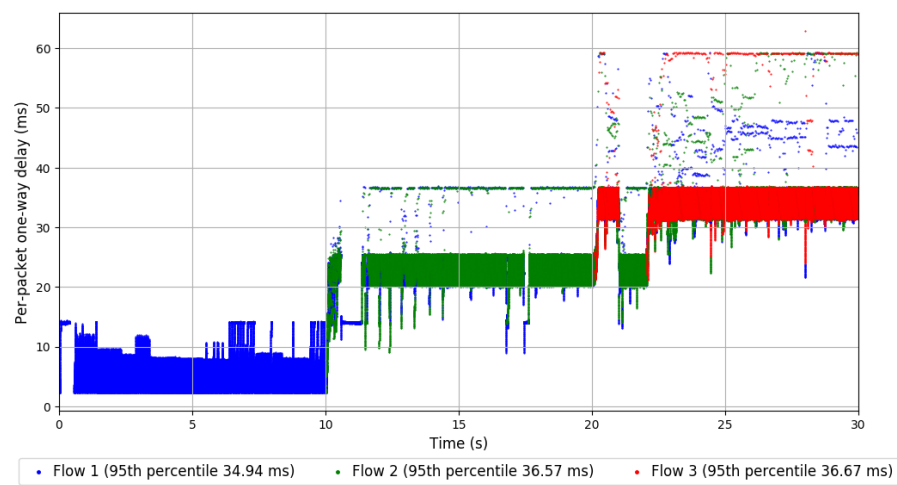
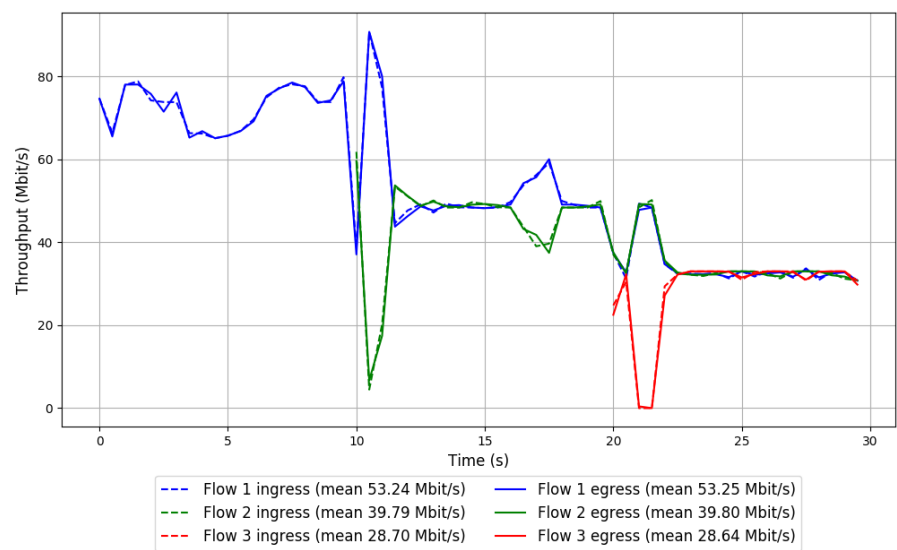
-- Flow 3:

Average throughput: 28.64 Mbit/s

95th percentile per-packet one-way delay: 36.670 ms

Loss rate: 0.55%

Run 8: Report of Verus — Data Link



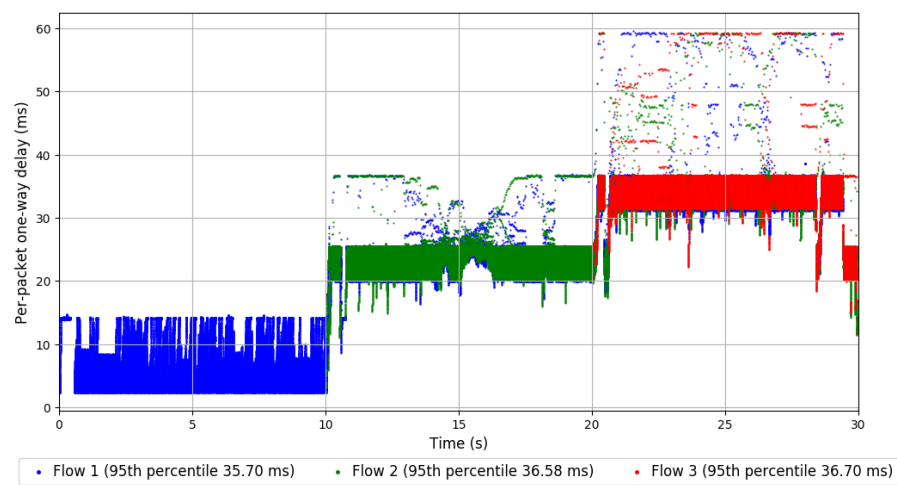
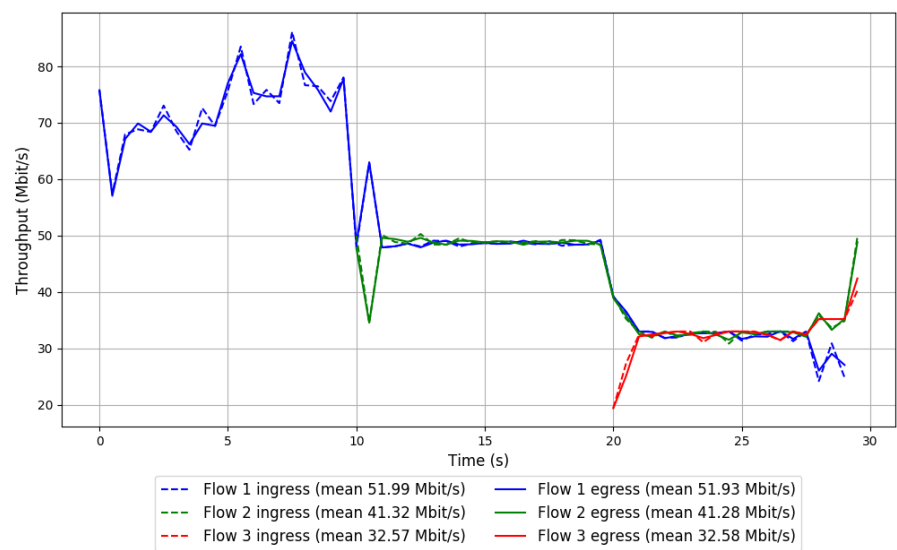
Run 9: Statistics of Verus

Start at: 2018-02-04 20:16:54  
End at: 2018-02-04 20:17:24  
Local clock offset: 0.063 ms  
Remote clock offset: 2.36 ms

# Below is generated by plot.py at 2018-02-05 00:30:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.25 Mbit/s  
95th percentile per-packet one-way delay: 36.574 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 51.93 Mbit/s  
95th percentile per-packet one-way delay: 35.698 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.28 Mbit/s  
95th percentile per-packet one-way delay: 36.583 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 32.58 Mbit/s  
95th percentile per-packet one-way delay: 36.700 ms  
Loss rate: 0.01%



Run 9: Report of Verus — Data Link

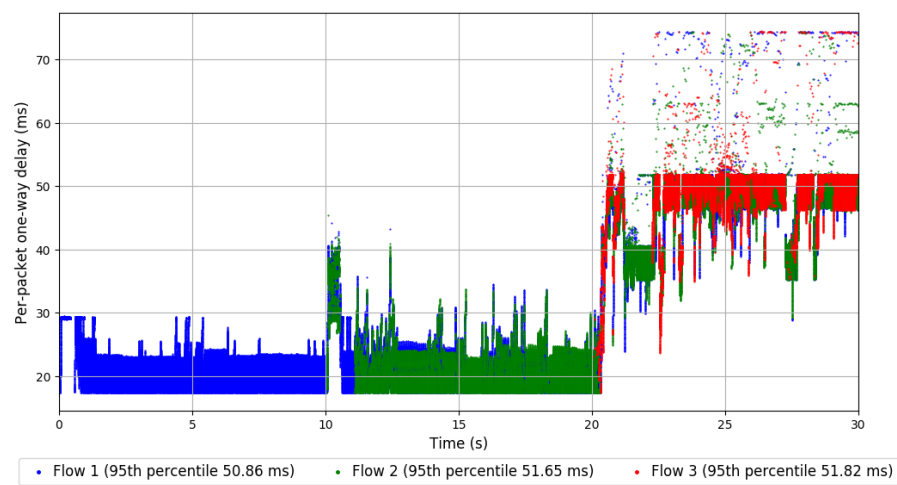
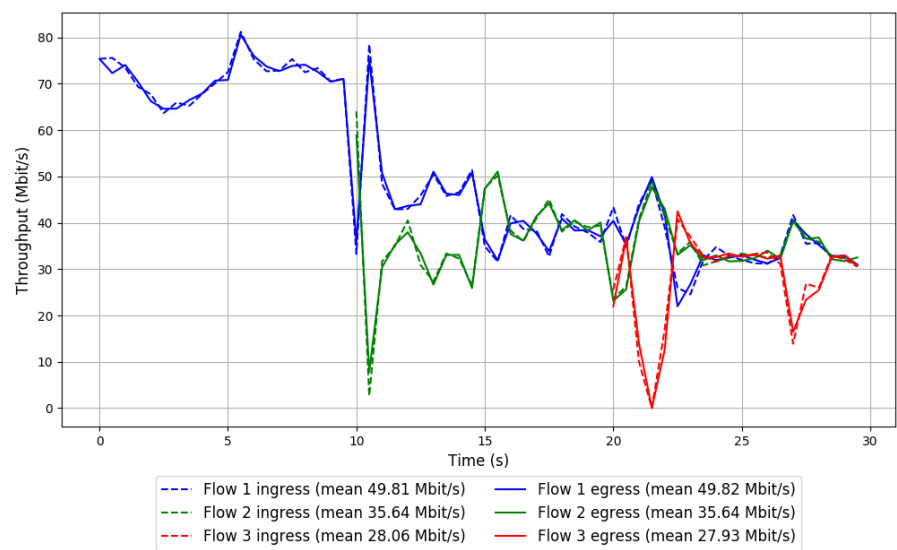


Run 10: Statistics of Verus

Start at: 2018-02-04 20:37:19  
End at: 2018-02-04 20:37:49  
Local clock offset: 0.037 ms  
Remote clock offset: -12.772 ms

# Below is generated by plot.py at 2018-02-05 00:30:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.78 Mbit/s  
95th percentile per-packet one-way delay: 51.708 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 49.82 Mbit/s  
95th percentile per-packet one-way delay: 50.864 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 35.64 Mbit/s  
95th percentile per-packet one-way delay: 51.648 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 27.93 Mbit/s  
95th percentile per-packet one-way delay: 51.824 ms  
Loss rate: 0.57%

Run 10: Report of Verus — Data Link

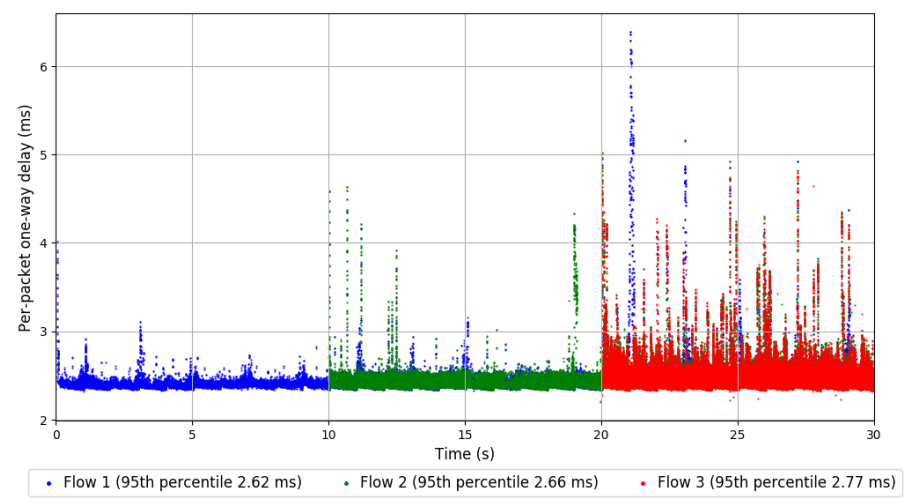
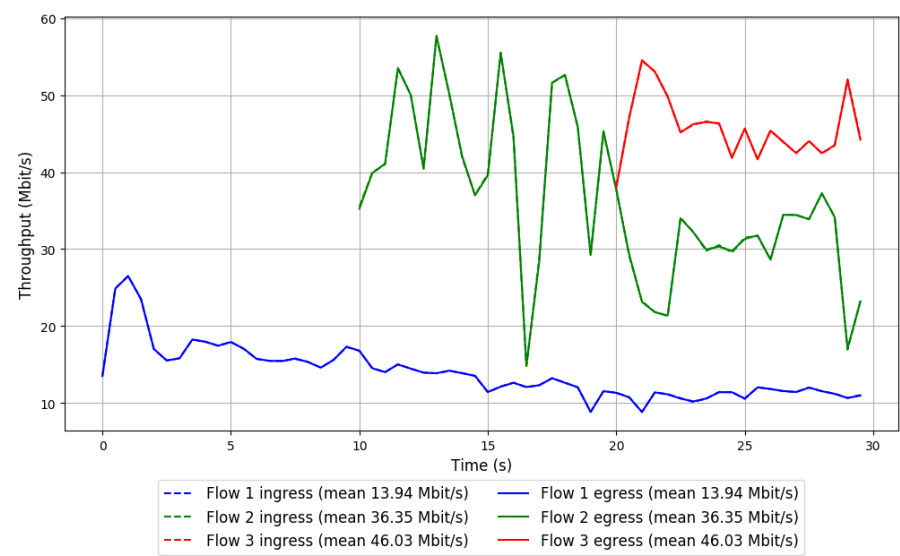


Run 1: Statistics of Copa

Start at: 2018-02-04 17:24:24  
End at: 2018-02-04 17:24:54  
Local clock offset: -0.005 ms  
Remote clock offset: -0.797 ms

# Below is generated by plot.py at 2018-02-05 00:30:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.40 Mbit/s  
95th percentile per-packet one-way delay: 2.691 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 13.94 Mbit/s  
95th percentile per-packet one-way delay: 2.623 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 36.35 Mbit/s  
95th percentile per-packet one-way delay: 2.662 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 46.03 Mbit/s  
95th percentile per-packet one-way delay: 2.769 ms  
Loss rate: 0.06%

Run 1: Report of Copa — Data Link

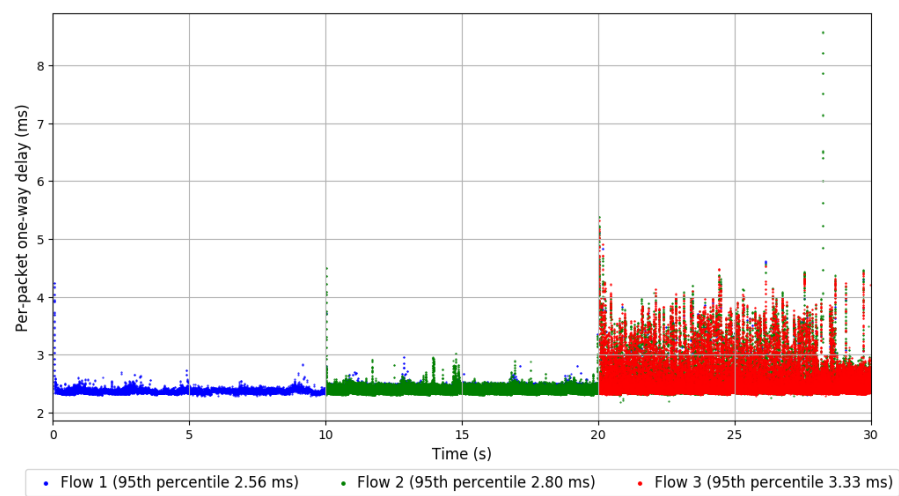
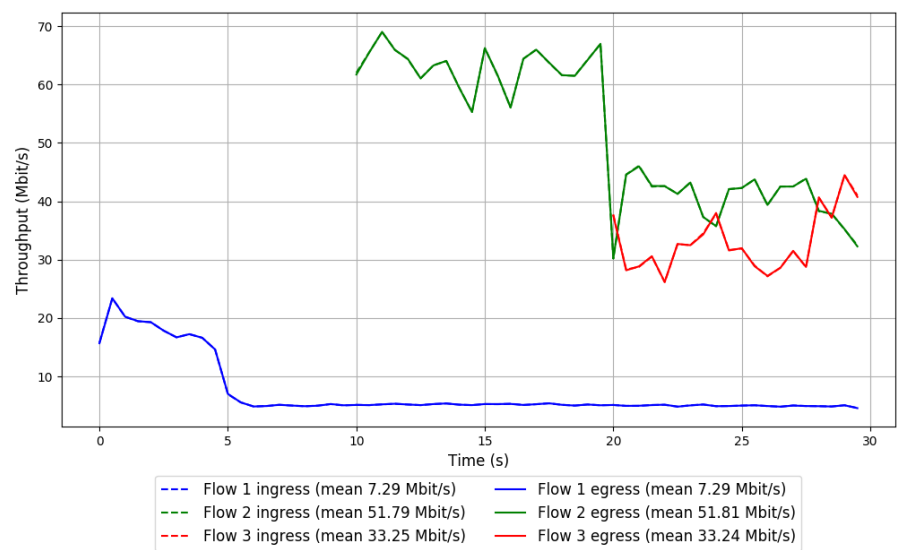


Run 2: Statistics of Copa

Start at: 2018-02-04 17:44:57  
End at: 2018-02-04 17:45:27  
Local clock offset: 0.04 ms  
Remote clock offset: -0.402 ms

# Below is generated by plot.py at 2018-02-05 00:30:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.80 Mbit/s  
95th percentile per-packet one-way delay: 2.950 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 7.29 Mbit/s  
95th percentile per-packet one-way delay: 2.564 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 51.81 Mbit/s  
95th percentile per-packet one-way delay: 2.796 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 33.24 Mbit/s  
95th percentile per-packet one-way delay: 3.328 ms  
Loss rate: 0.07%

Run 2: Report of Copa — Data Link



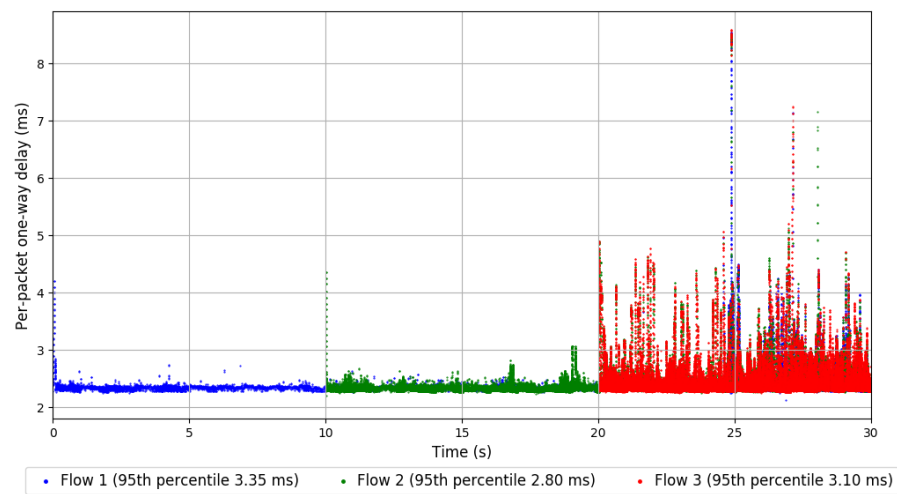
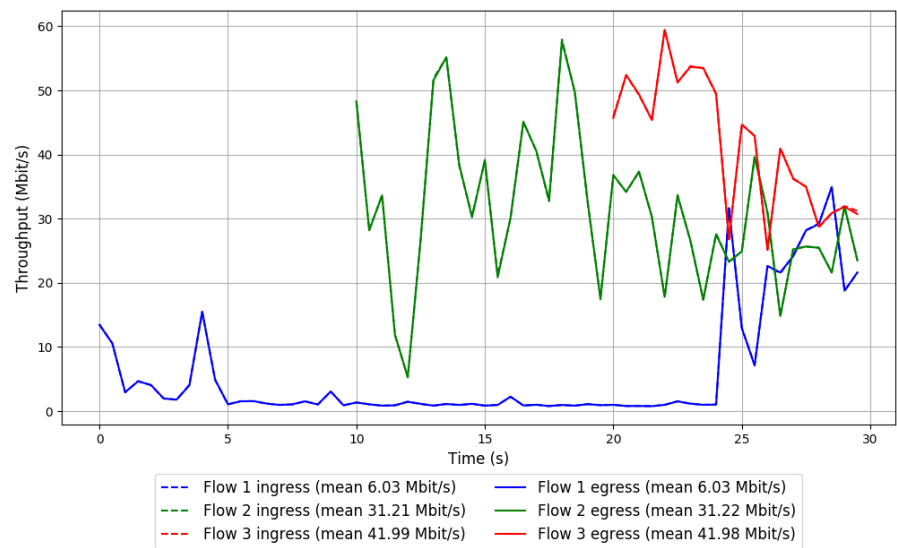
Run 3: Statistics of Copa

Start at: 2018-02-04 18:05:21  
End at: 2018-02-04 18:05:51  
Local clock offset: -0.011 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-02-05 00:30:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.73 Mbit/s  
95th percentile per-packet one-way delay: 2.998 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 6.03 Mbit/s  
95th percentile per-packet one-way delay: 3.345 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 31.22 Mbit/s  
95th percentile per-packet one-way delay: 2.800 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 41.98 Mbit/s  
95th percentile per-packet one-way delay: 3.098 ms  
Loss rate: 0.07%



Run 3: Report of Copa — Data Link

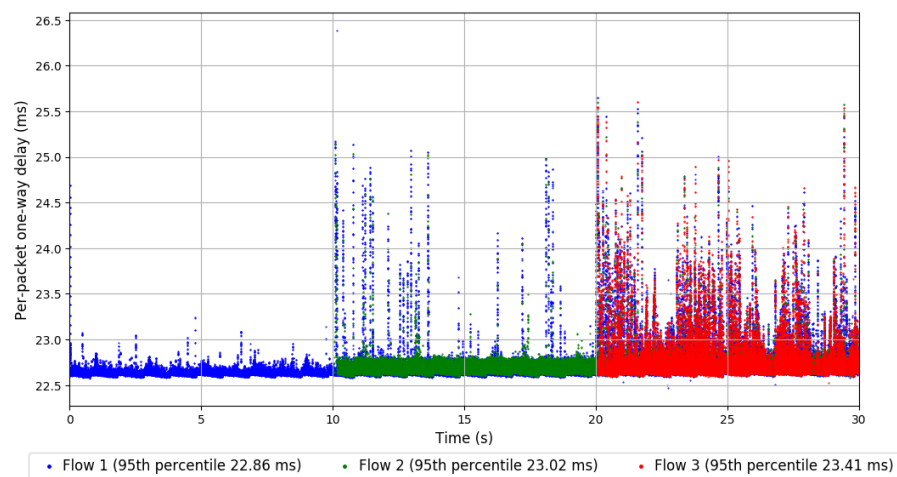
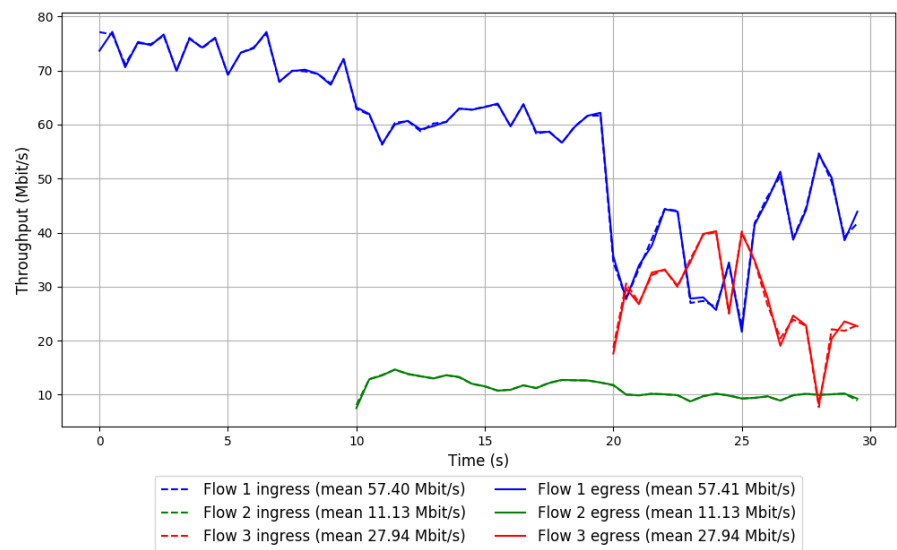


Run 4: Statistics of Copa

Start at: 2018-02-04 18:25:48  
End at: 2018-02-04 18:26:18  
Local clock offset: 0.067 ms  
Remote clock offset: -20.031 ms

# Below is generated by plot.py at 2018-02-05 00:31:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.07 Mbit/s  
95th percentile per-packet one-way delay: 22.982 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 57.41 Mbit/s  
95th percentile per-packet one-way delay: 22.864 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 11.13 Mbit/s  
95th percentile per-packet one-way delay: 23.024 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 27.94 Mbit/s  
95th percentile per-packet one-way delay: 23.413 ms  
Loss rate: 0.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-04 18:46:10

End at: 2018-02-04 18:46:40

Local clock offset: 0.043 ms

Remote clock offset: 1.583 ms

# Below is generated by plot.py at 2018-02-05 00:31:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 2.681 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 2.621 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 2.667 ms

Loss rate: 0.02%

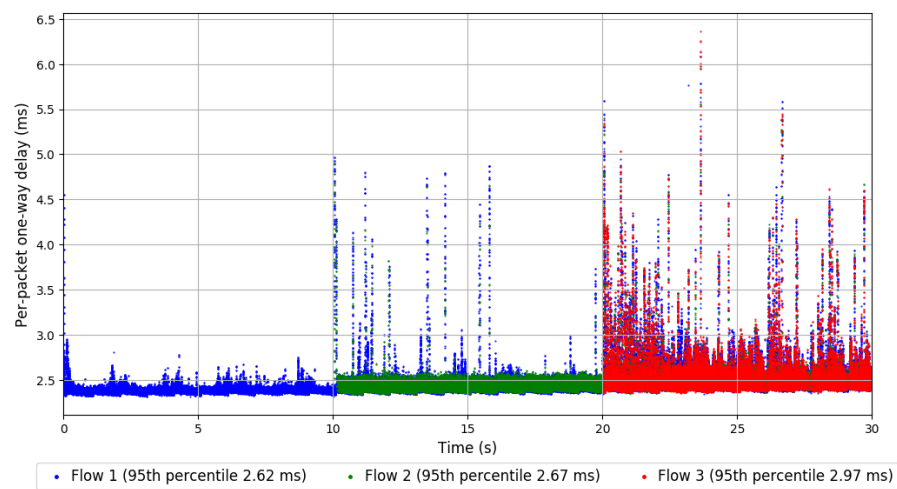
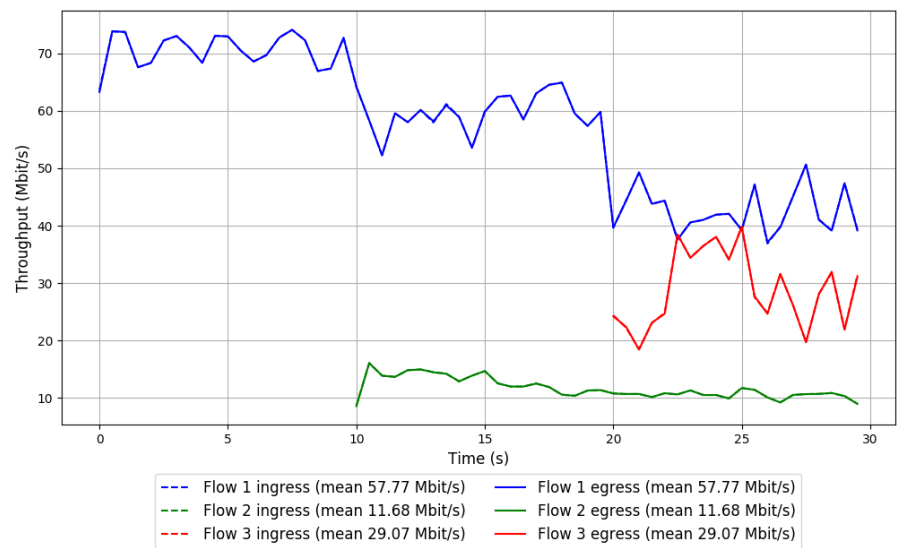
-- Flow 3:

Average throughput: 29.07 Mbit/s

95th percentile per-packet one-way delay: 2.967 ms

Loss rate: 0.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-04 19:06:34

End at: 2018-02-04 19:07:04

Local clock offset: 0.069 ms

Remote clock offset: 2.714 ms

# Below is generated by plot.py at 2018-02-05 00:32:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.99 Mbit/s

95th percentile per-packet one-way delay: 2.992 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.73 Mbit/s

95th percentile per-packet one-way delay: 2.820 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 35.26 Mbit/s

95th percentile per-packet one-way delay: 3.057 ms

Loss rate: 0.01%

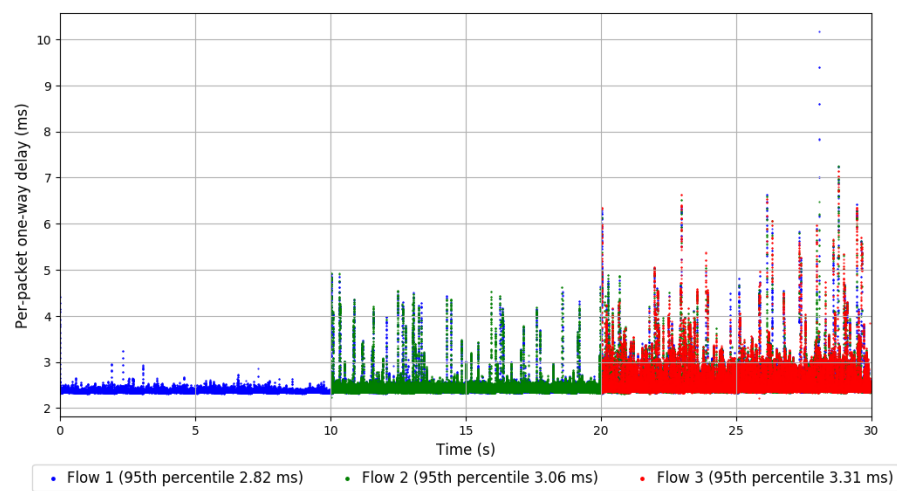
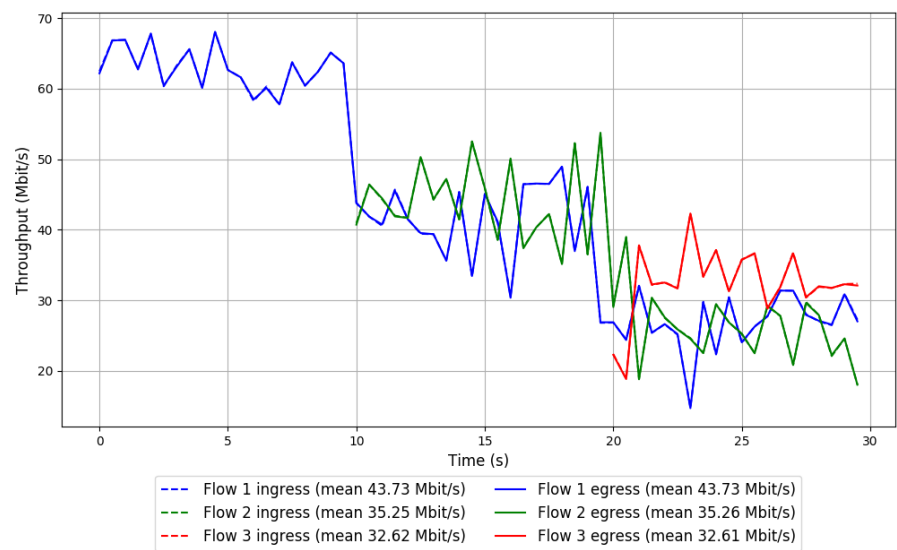
-- Flow 3:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 3.305 ms

Loss rate: 0.06%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-04 19:27:01

End at: 2018-02-04 19:27:31

Local clock offset: 0.04 ms

Remote clock offset: 3.35 ms

# Below is generated by plot.py at 2018-02-05 00:32:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.00 Mbit/s

95th percentile per-packet one-way delay: 2.999 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 2.838 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.19 Mbit/s

95th percentile per-packet one-way delay: 3.009 ms

Loss rate: 0.02%

-- Flow 3:

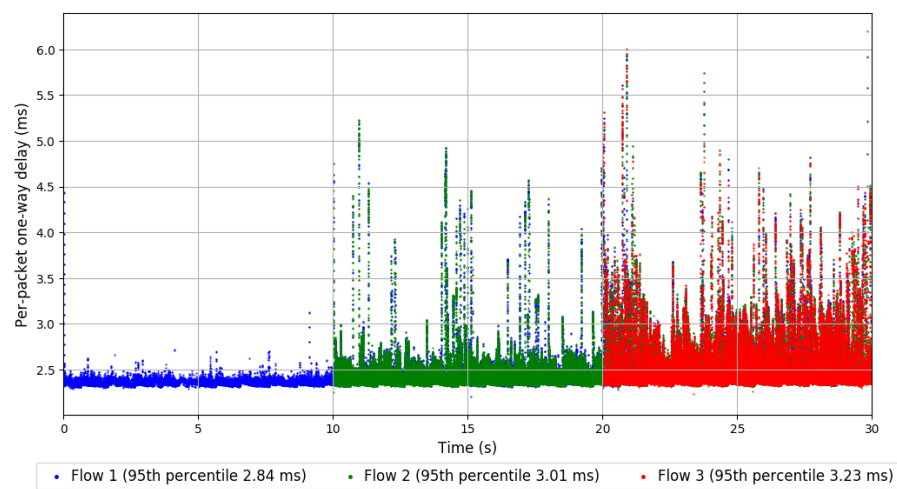
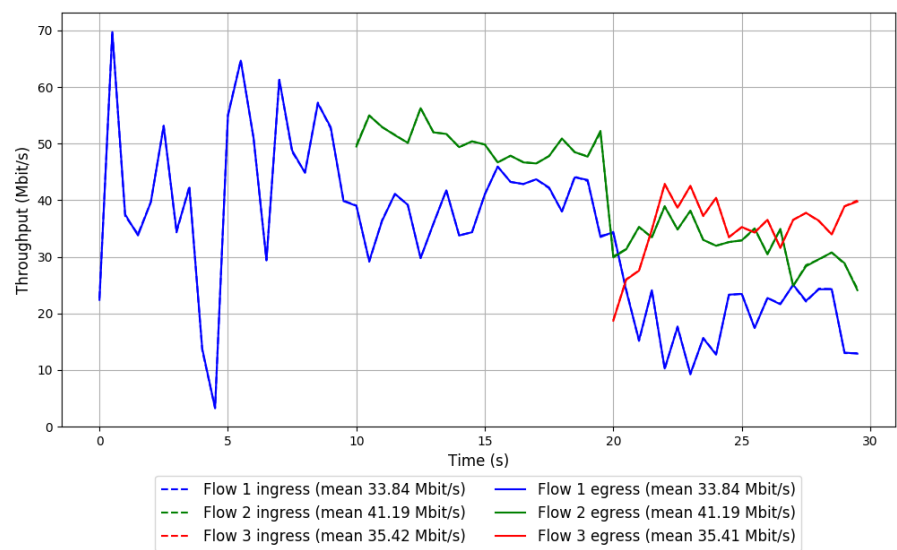
Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 3.228 ms

Loss rate: 0.05%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-04 19:47:26

End at: 2018-02-04 19:47:56

Local clock offset: 0.045 ms

Remote clock offset: 2.769 ms

# Below is generated by plot.py at 2018-02-05 00:32:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 84.80 Mbit/s

95th percentile per-packet one-way delay: 3.061 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 50.92 Mbit/s

95th percentile per-packet one-way delay: 2.894 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 36.12 Mbit/s

95th percentile per-packet one-way delay: 3.122 ms

Loss rate: 0.02%

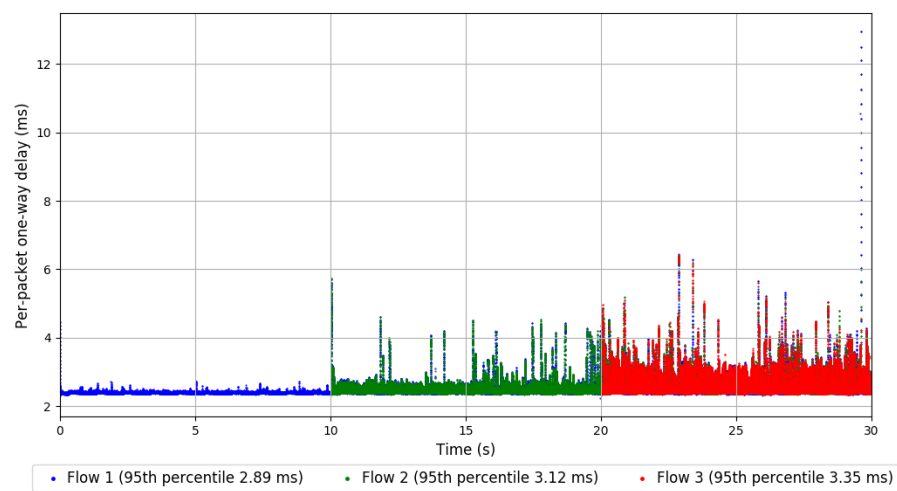
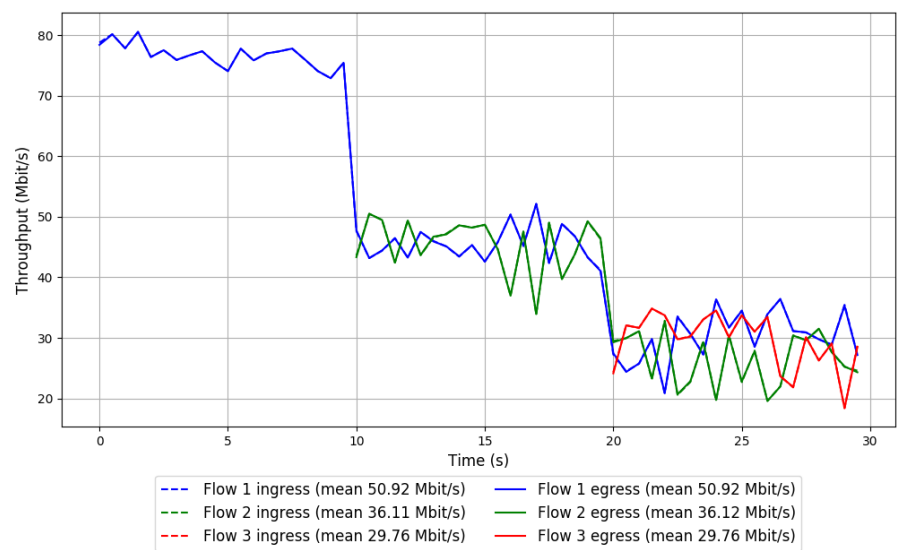
-- Flow 3:

Average throughput: 29.76 Mbit/s

95th percentile per-packet one-way delay: 3.346 ms

Loss rate: 0.06%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-04 20:07:51

End at: 2018-02-04 20:08:21

Local clock offset: 0.035 ms

Remote clock offset: 2.461 ms

# Below is generated by plot.py at 2018-02-05 00:32:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 2.654 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.50 Mbit/s

95th percentile per-packet one-way delay: 2.602 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.07 Mbit/s

95th percentile per-packet one-way delay: 2.733 ms

Loss rate: 0.02%

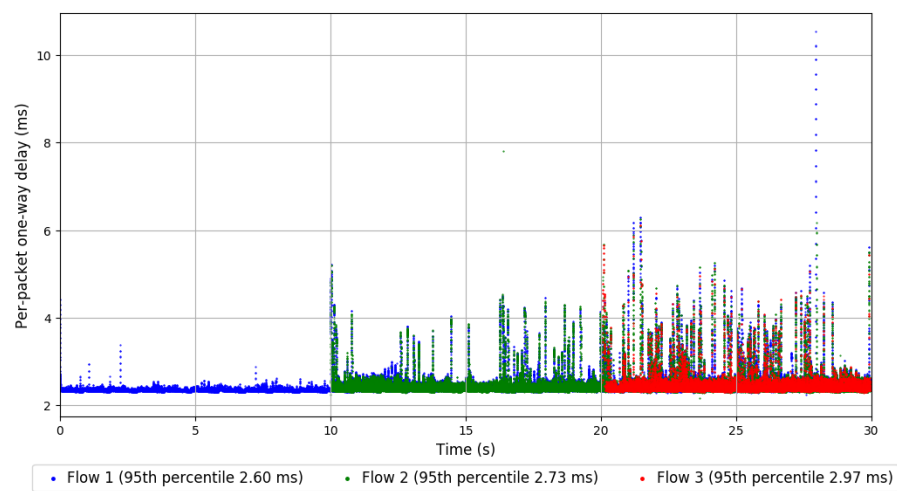
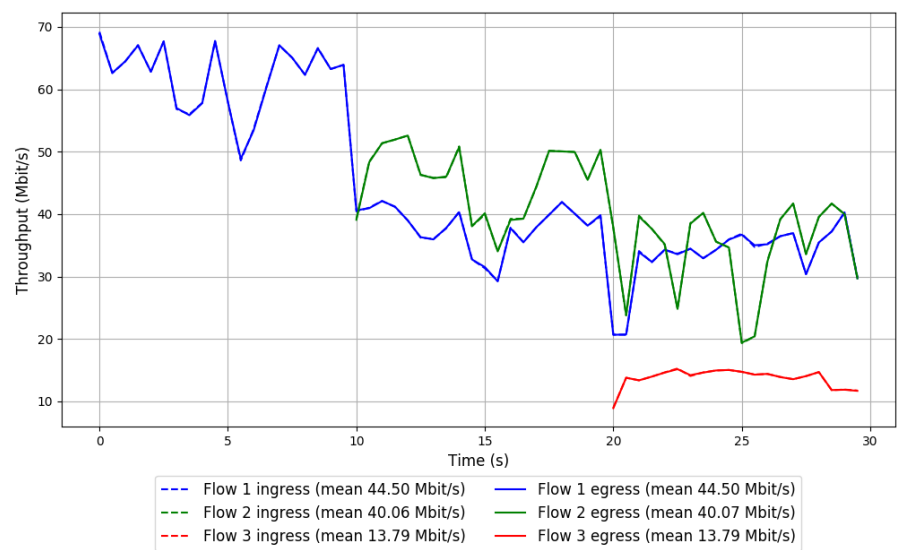
-- Flow 3:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 2.972 ms

Loss rate: 0.05%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-04 20:28:21

End at: 2018-02-04 20:28:51

Local clock offset: 0.042 ms

Remote clock offset: 2.327 ms

# Below is generated by plot.py at 2018-02-05 00:32:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.83 Mbit/s

95th percentile per-packet one-way delay: 3.083 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 45.51 Mbit/s

95th percentile per-packet one-way delay: 2.880 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 3.211 ms

Loss rate: 0.02%

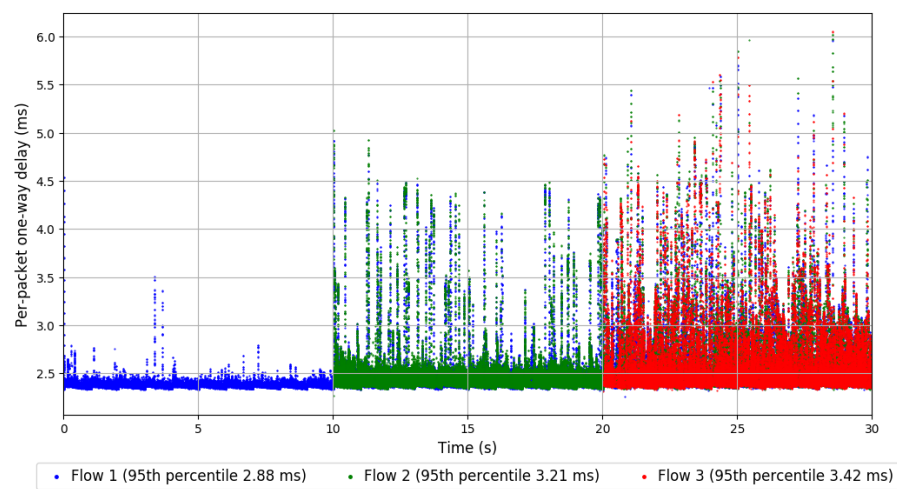
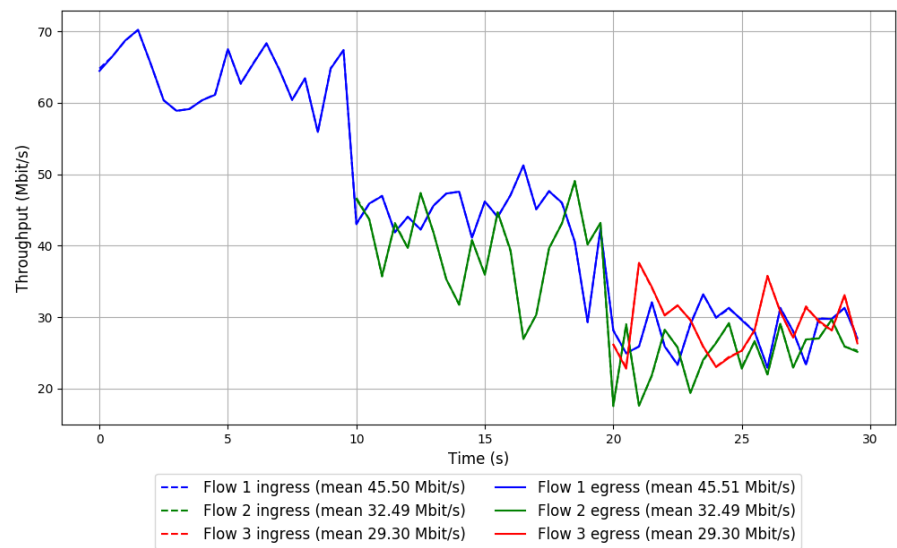
-- Flow 3:

Average throughput: 29.30 Mbit/s

95th percentile per-packet one-way delay: 3.424 ms

Loss rate: 0.05%

Run 10: Report of Copa — Data Link



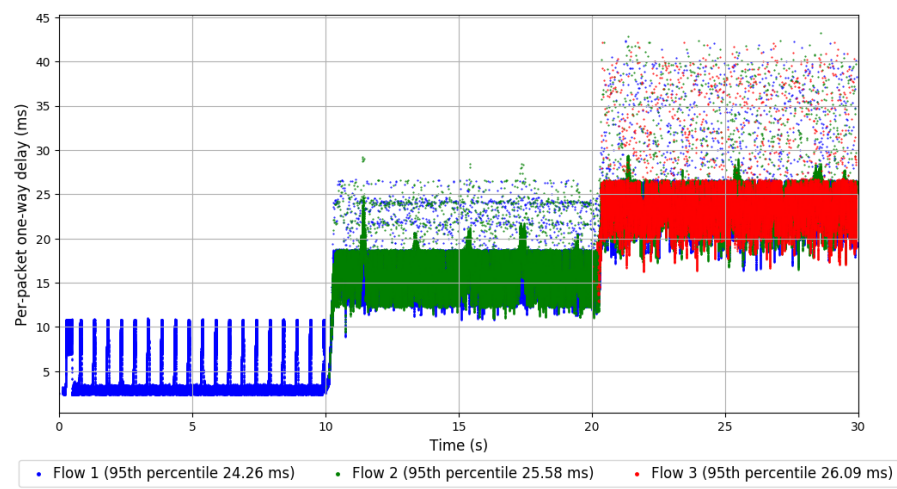
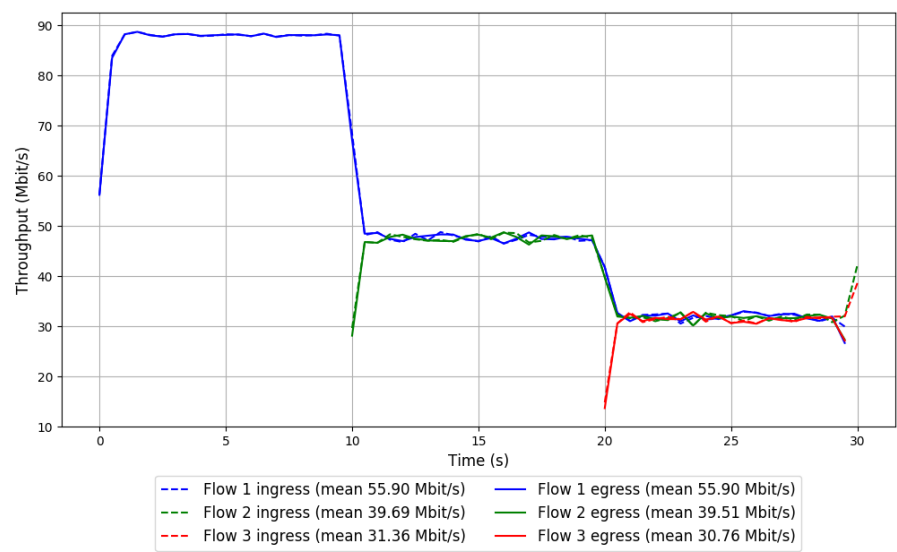
```
Run 1: Statistics of FillP

Start at: 2018-02-04 17:34:34
End at: 2018-02-04 17:35:04
Local clock offset: 0.018 ms
Remote clock offset: -0.81 ms

# Below is generated by plot.py at 2018-02-05 00:33:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.35 Mbit/s
95th percentile per-packet one-way delay: 25.251 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 24.262 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 39.51 Mbit/s
95th percentile per-packet one-way delay: 25.582 ms
Loss rate: 2.95%
-- Flow 3:
Average throughput: 30.76 Mbit/s
95th percentile per-packet one-way delay: 26.086 ms
Loss rate: 6.92%
```



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-04 17:55:03

End at: 2018-02-04 17:55:33

Local clock offset: 0.042 ms

Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2018-02-05 00:34:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 24.929 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 24.017 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.07 Mbit/s

95th percentile per-packet one-way delay: 25.183 ms

Loss rate: 2.61%

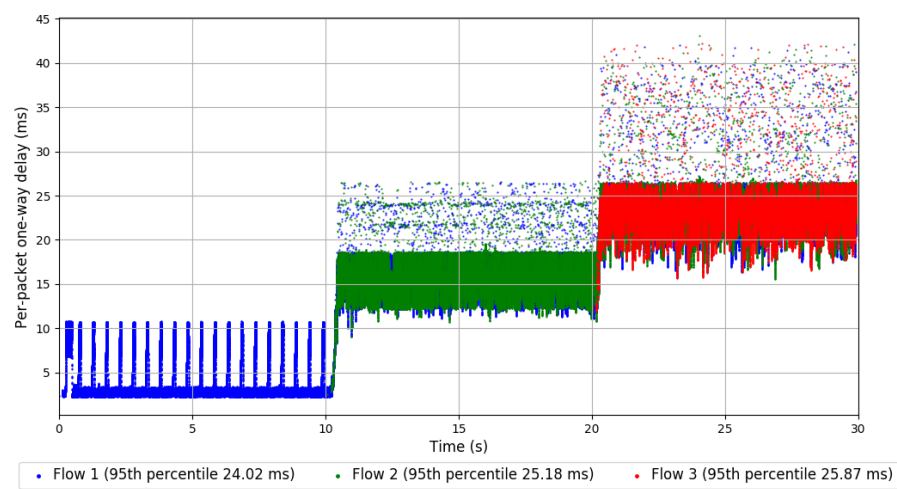
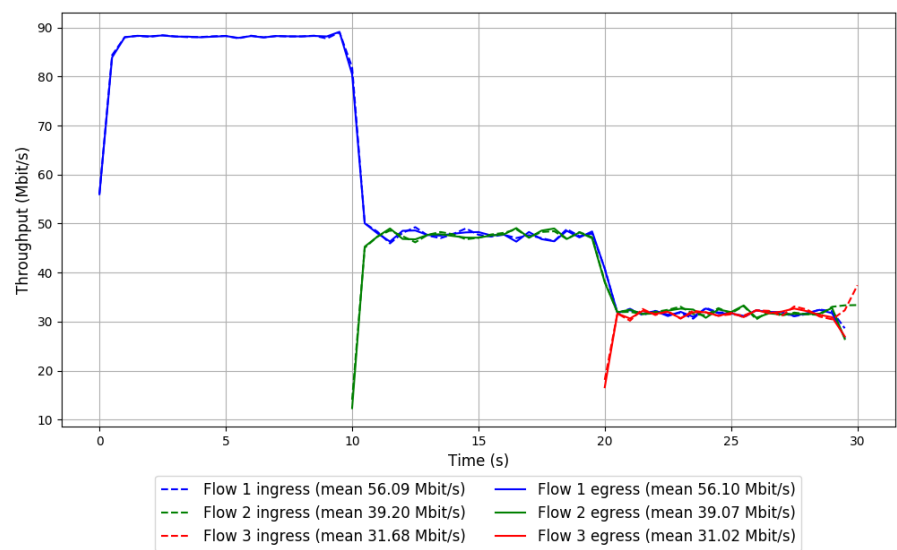
-- Flow 3:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 25.874 ms

Loss rate: 6.67%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-04 18:15:27

End at: 2018-02-04 18:15:57

Local clock offset: 0.03 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-02-05 00:34:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 24.930 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 24.083 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 25.186 ms

Loss rate: 1.04%

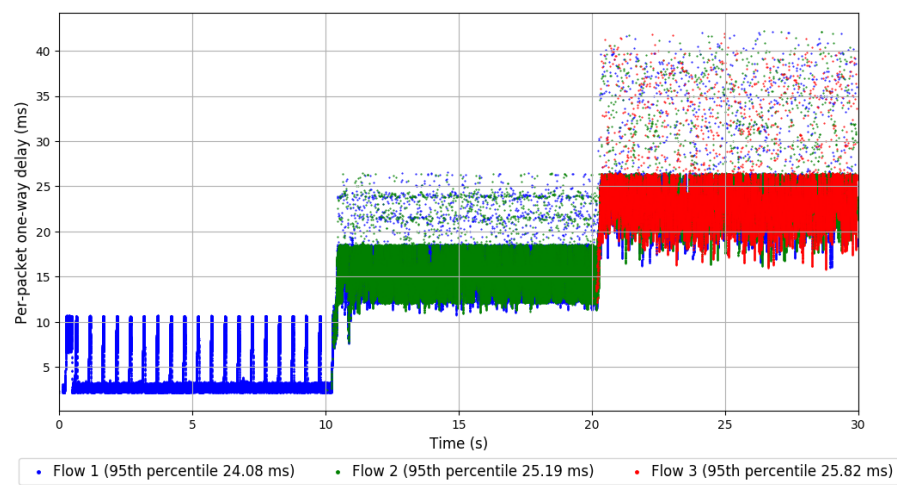
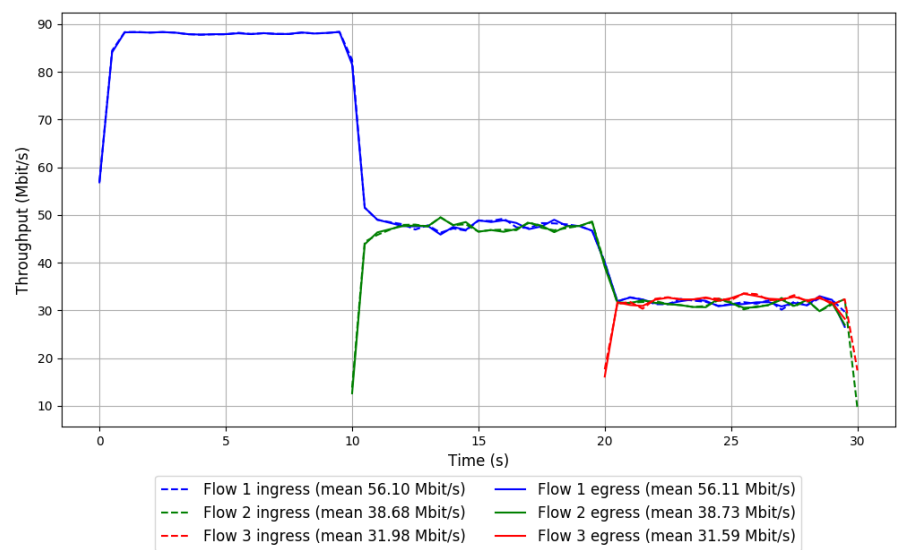
-- Flow 3:

Average throughput: 31.59 Mbit/s

95th percentile per-packet one-way delay: 25.824 ms

Loss rate: 3.55%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-04 18:35:52

End at: 2018-02-04 18:36:22

Local clock offset: 0.028 ms

Remote clock offset: 0.108 ms

# Below is generated by plot.py at 2018-02-05 00:34:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 25.309 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 55.73 Mbit/s

95th percentile per-packet one-way delay: 24.497 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 40.10 Mbit/s

95th percentile per-packet one-way delay: 25.444 ms

Loss rate: 2.00%

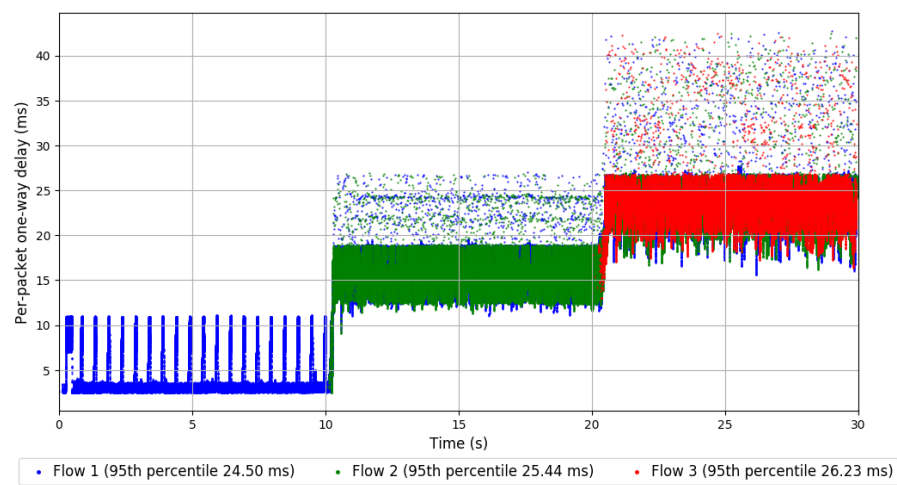
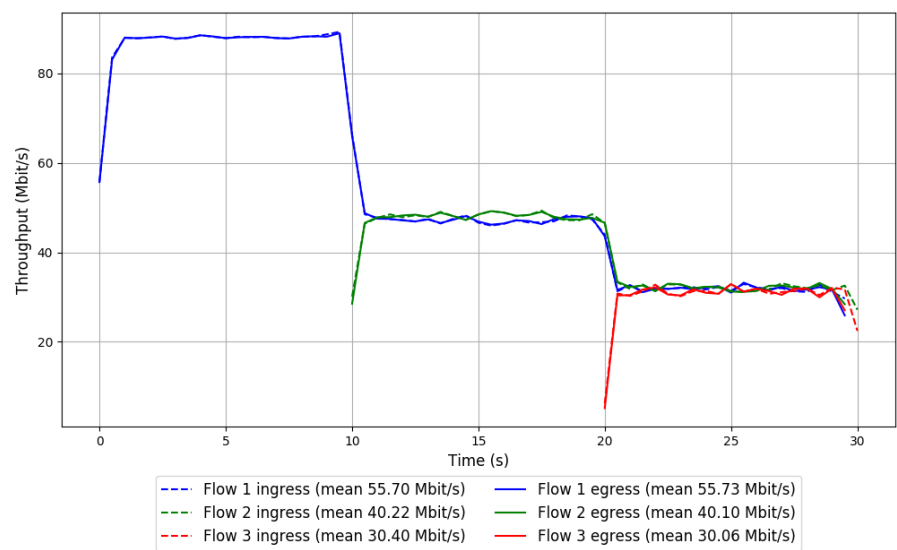
-- Flow 3:

Average throughput: 30.06 Mbit/s

95th percentile per-packet one-way delay: 26.232 ms

Loss rate: 4.62%

Run 4: Report of FillP — Data Link



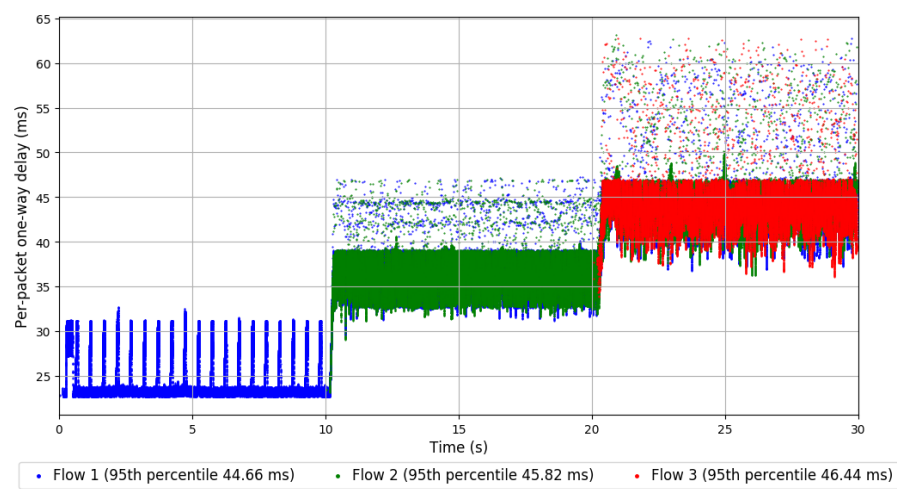
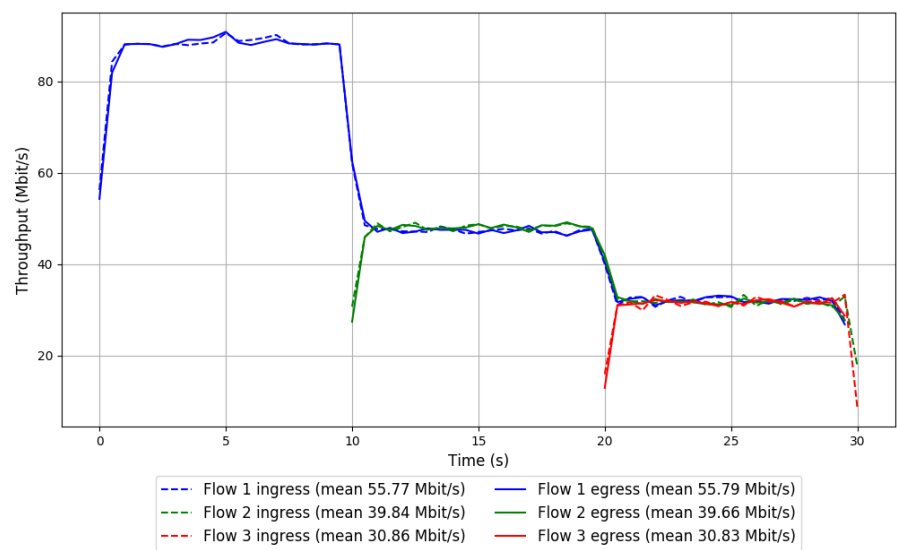
Run 5: Statistics of FillP

Start at: 2018-02-04 18:56:19  
End at: 2018-02-04 18:56:49  
Local clock offset: 0.039 ms  
Remote clock offset: -18.083 ms

# Below is generated by plot.py at 2018-02-05 00:35:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.35 Mbit/s  
95th percentile per-packet one-way delay: 45.566 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 55.79 Mbit/s  
95th percentile per-packet one-way delay: 44.662 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 39.66 Mbit/s  
95th percentile per-packet one-way delay: 45.822 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 30.83 Mbit/s  
95th percentile per-packet one-way delay: 46.436 ms  
Loss rate: 2.50%



Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-04 19:16:43

End at: 2018-02-04 19:17:13

Local clock offset: -0.011 ms

Remote clock offset: 3.012 ms

# Below is generated by plot.py at 2018-02-05 00:35:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 24.971 ms

Loss rate: 1.34%

-- Flow 1:

Average throughput: 55.99 Mbit/s

95th percentile per-packet one-way delay: 24.058 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 39.37 Mbit/s

95th percentile per-packet one-way delay: 25.134 ms

Loss rate: 2.22%

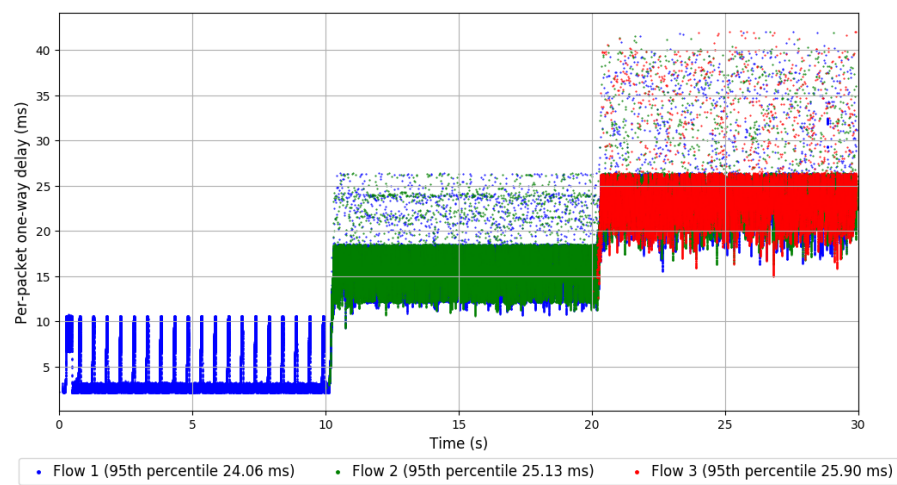
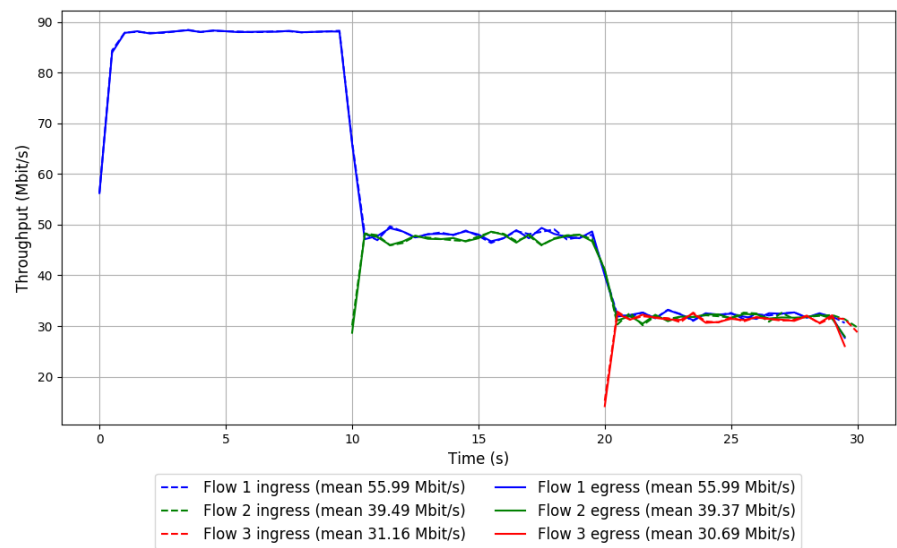
-- Flow 3:

Average throughput: 30.69 Mbit/s

95th percentile per-packet one-way delay: 25.902 ms

Loss rate: 5.47%

Run 6: Report of FillP — Data Link

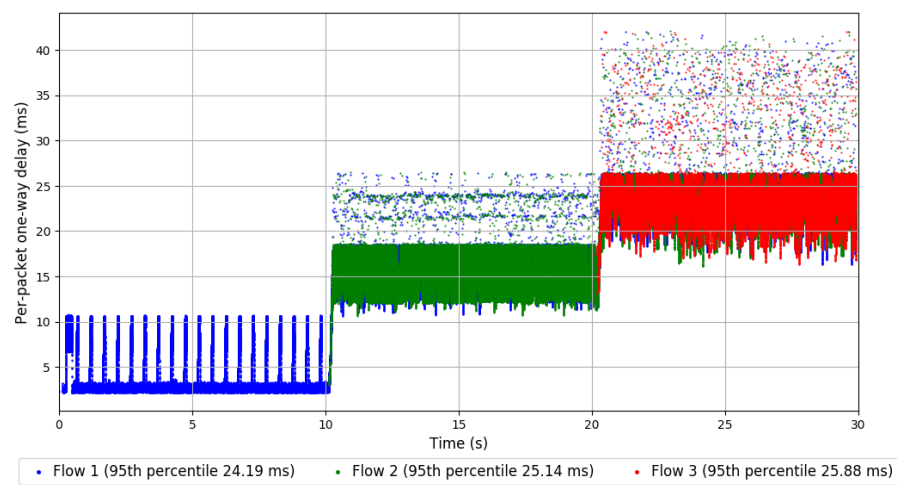
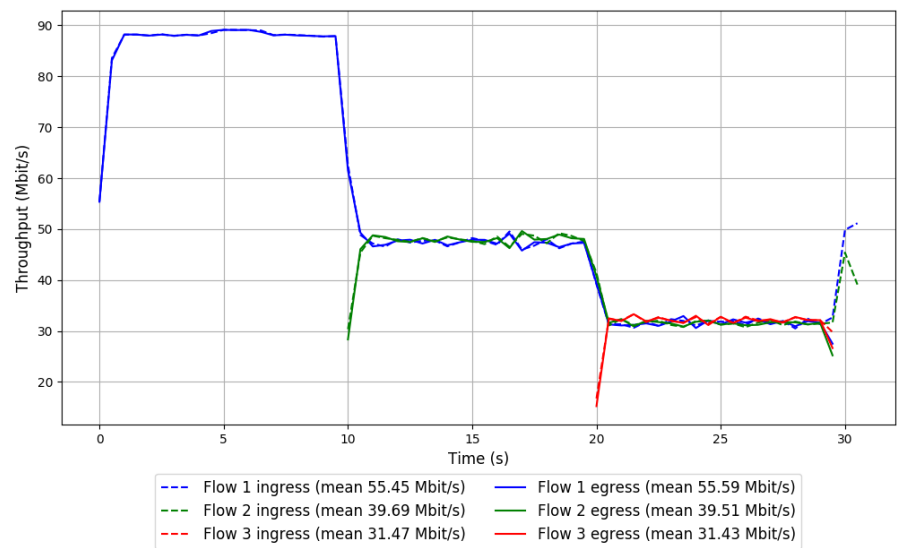


Run 7: Statistics of FillP

Start at: 2018-02-04 19:37:09  
End at: 2018-02-04 19:37:39  
Local clock offset: 0.047 ms  
Remote clock offset: 3.153 ms

# Below is generated by plot.py at 2018-02-05 00:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.28 Mbit/s  
95th percentile per-packet one-way delay: 24.974 ms  
Loss rate: 3.57%  
-- Flow 1:  
Average throughput: 55.59 Mbit/s  
95th percentile per-packet one-way delay: 24.194 ms  
Loss rate: 3.13%  
-- Flow 2:  
Average throughput: 39.51 Mbit/s  
95th percentile per-packet one-way delay: 25.140 ms  
Loss rate: 5.54%  
-- Flow 3:  
Average throughput: 31.43 Mbit/s  
95th percentile per-packet one-way delay: 25.877 ms  
Loss rate: 0.74%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-04 19:57:34

End at: 2018-02-04 19:58:04

Local clock offset: 0.026 ms

Remote clock offset: 2.51 ms

# Below is generated by plot.py at 2018-02-05 00:35:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 25.011 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 55.91 Mbit/s

95th percentile per-packet one-way delay: 24.133 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 25.211 ms

Loss rate: 2.00%

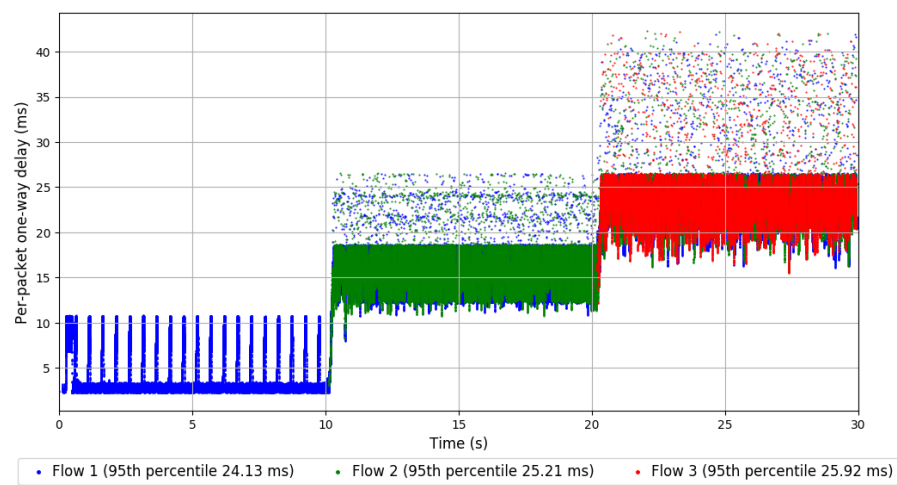
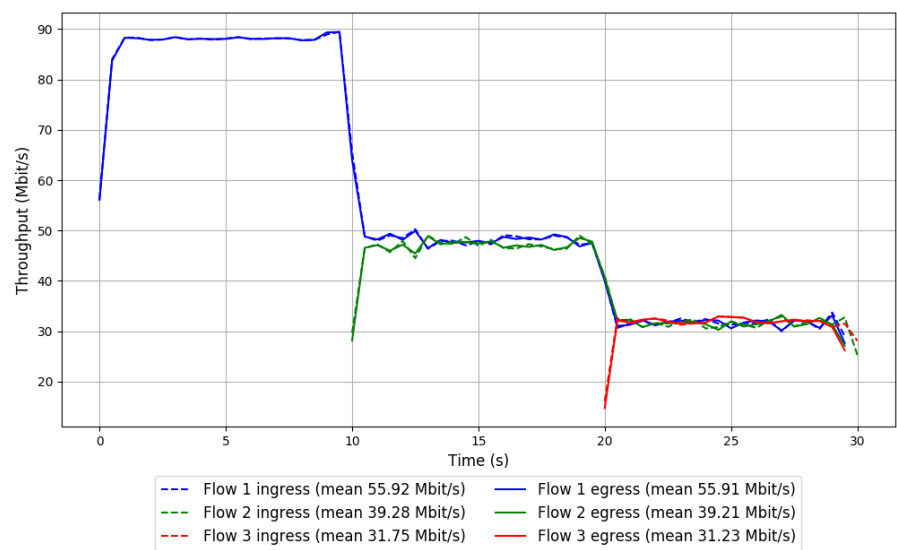
-- Flow 3:

Average throughput: 31.23 Mbit/s

95th percentile per-packet one-way delay: 25.920 ms

Loss rate: 5.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-04 20:18:03

End at: 2018-02-04 20:18:33

Local clock offset: 0.066 ms

Remote clock offset: 2.316 ms

# Below is generated by plot.py at 2018-02-05 00:36:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 24.889 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 55.59 Mbit/s

95th percentile per-packet one-way delay: 24.011 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 25.058 ms

Loss rate: 2.11%

-- Flow 3:

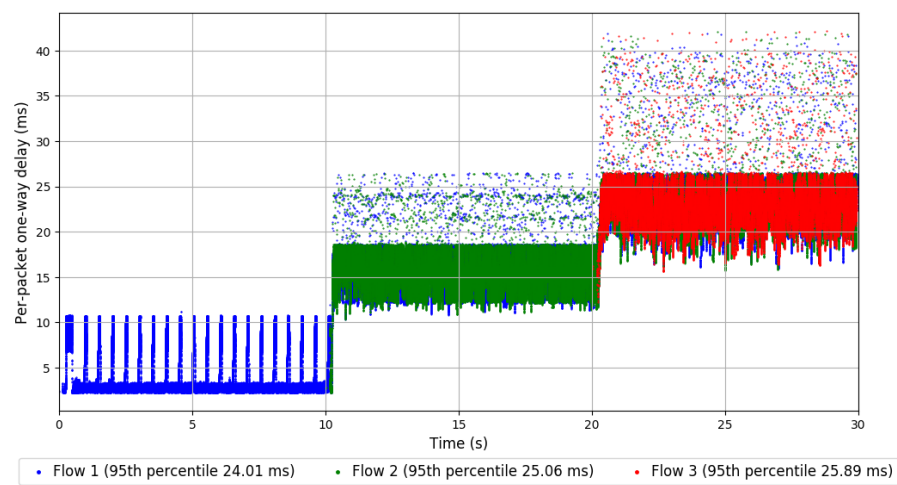
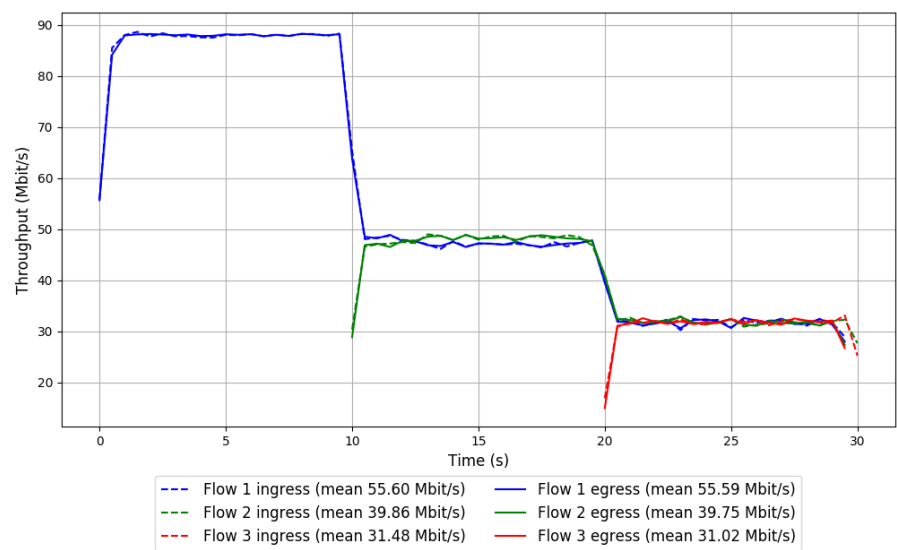
Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 25.886 ms

Loss rate: 5.04%



Run 9: Report of FillP — Data Link

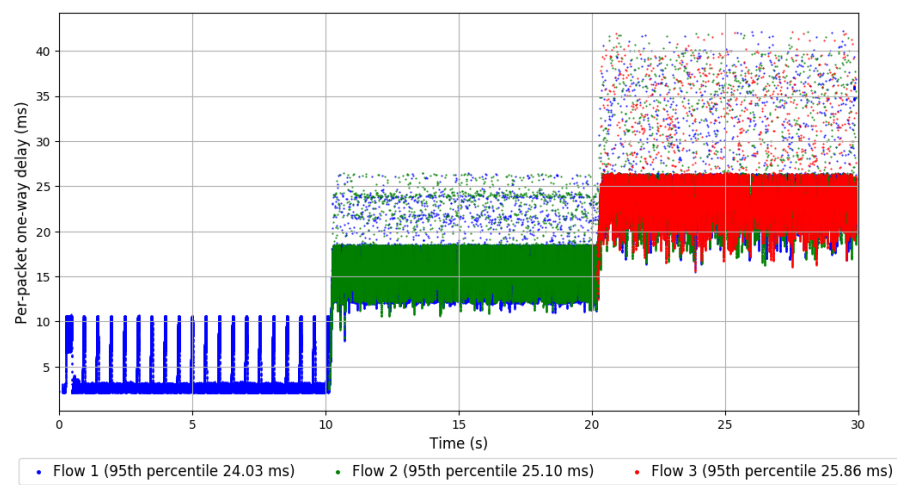
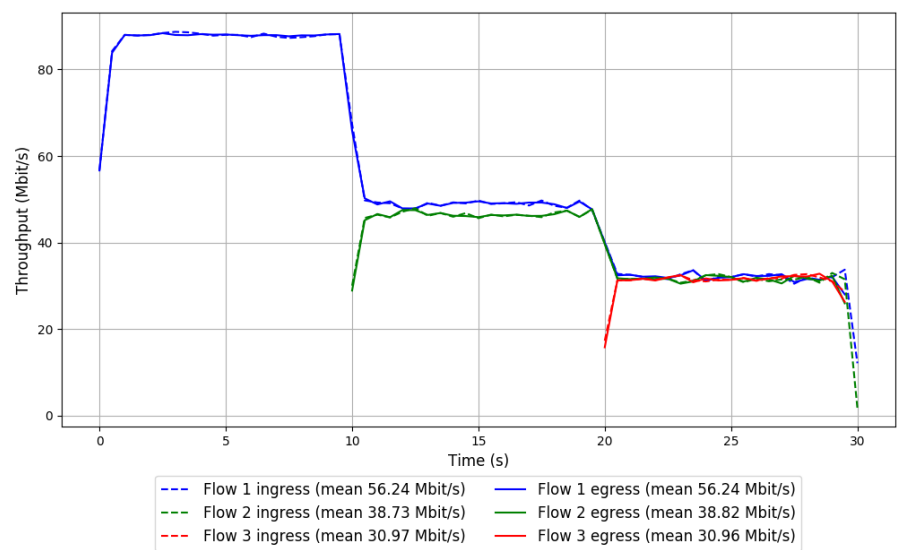


```
Run 10: Statistics of FillP

Start at: 2018-02-04 20:38:28
End at: 2018-02-04 20:38:58
Local clock offset: 0.036 ms
Remote clock offset: 2.4 ms

# Below is generated by plot.py at 2018-02-05 00:37:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.29 Mbit/s
95th percentile per-packet one-way delay: 24.943 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 24.028 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 25.099 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 30.96 Mbit/s
95th percentile per-packet one-way delay: 25.863 ms
Loss rate: 0.55%
```

Run 10: Report of FillP — Data Link

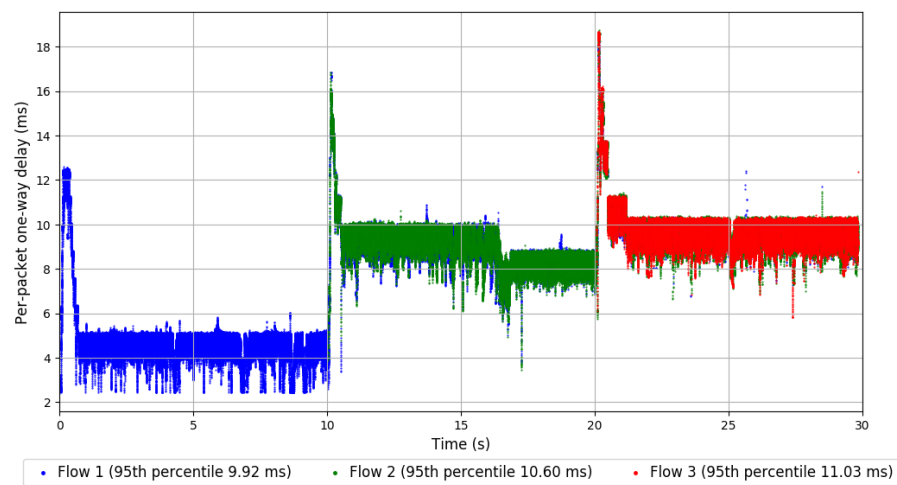
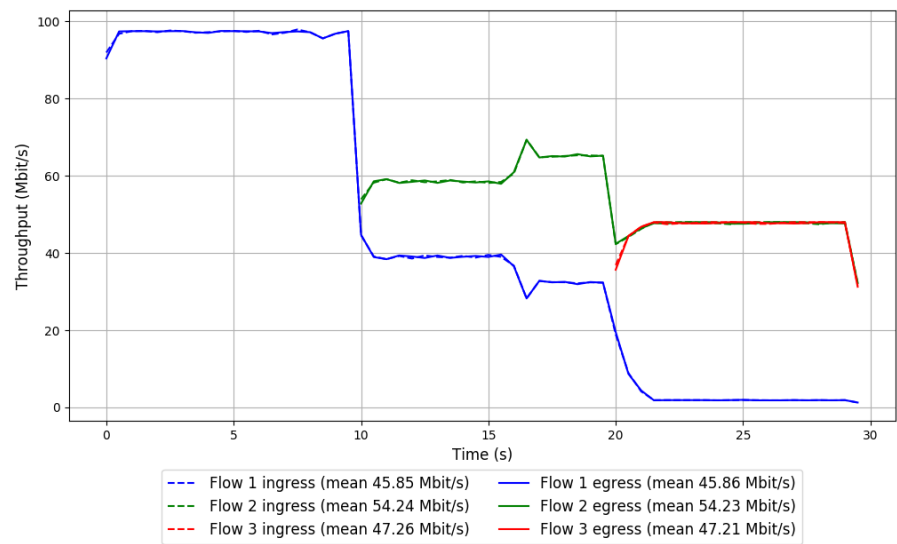


Run 1: Statistics of Indigo-1-32

Start at: 2018-02-04 17:35:44  
End at: 2018-02-04 17:36:14  
Local clock offset: 0.043 ms  
Remote clock offset: -0.701 ms

# Below is generated by plot.py at 2018-02-05 00:37:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.31 Mbit/s  
95th percentile per-packet one-way delay: 10.320 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 45.86 Mbit/s  
95th percentile per-packet one-way delay: 9.921 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 54.23 Mbit/s  
95th percentile per-packet one-way delay: 10.602 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 47.21 Mbit/s  
95th percentile per-packet one-way delay: 11.034 ms  
Loss rate: 0.13%

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

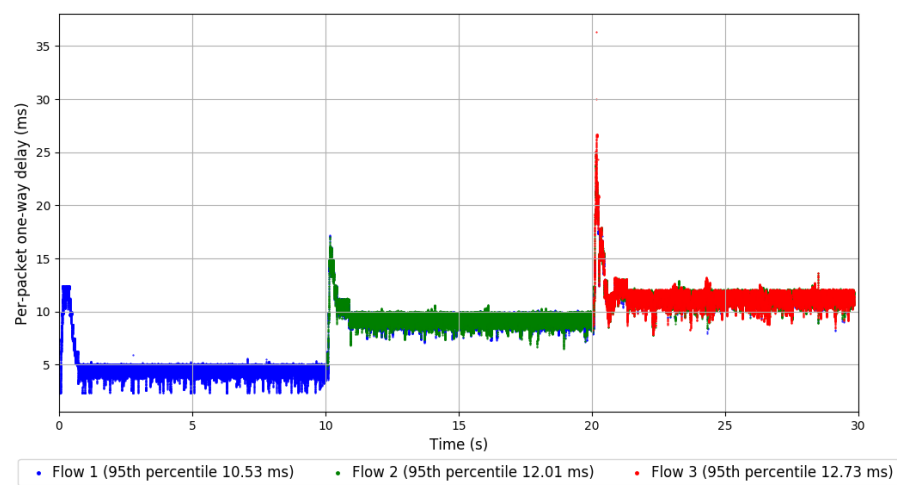
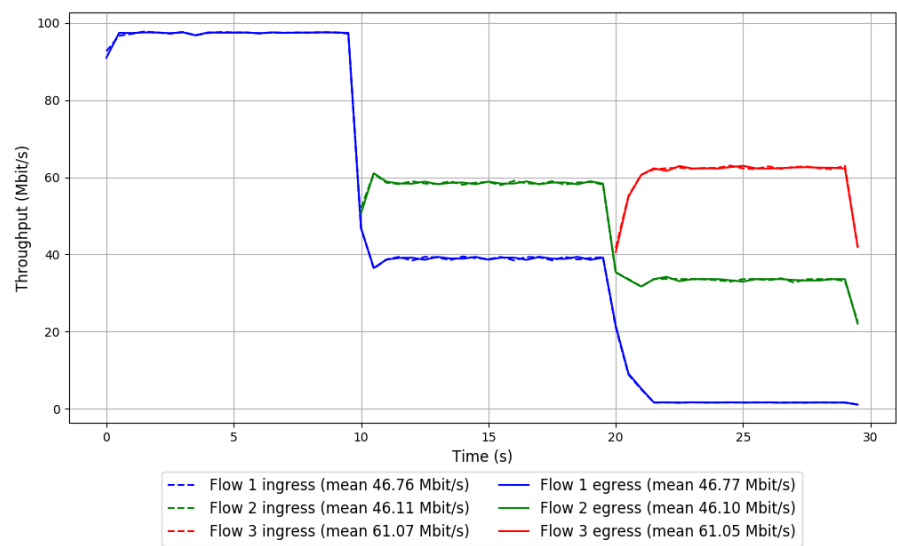


Run 2: Statistics of Indigo-1-32

Start at: 2018-02-04 17:56:13  
End at: 2018-02-04 17:56:43  
Local clock offset: 0.039 ms  
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2018-02-05 00:37:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.38 Mbit/s  
95th percentile per-packet one-way delay: 11.987 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 46.77 Mbit/s  
95th percentile per-packet one-way delay: 10.527 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.10 Mbit/s  
95th percentile per-packet one-way delay: 12.013 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 61.05 Mbit/s  
95th percentile per-packet one-way delay: 12.735 ms  
Loss rate: 0.15%

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



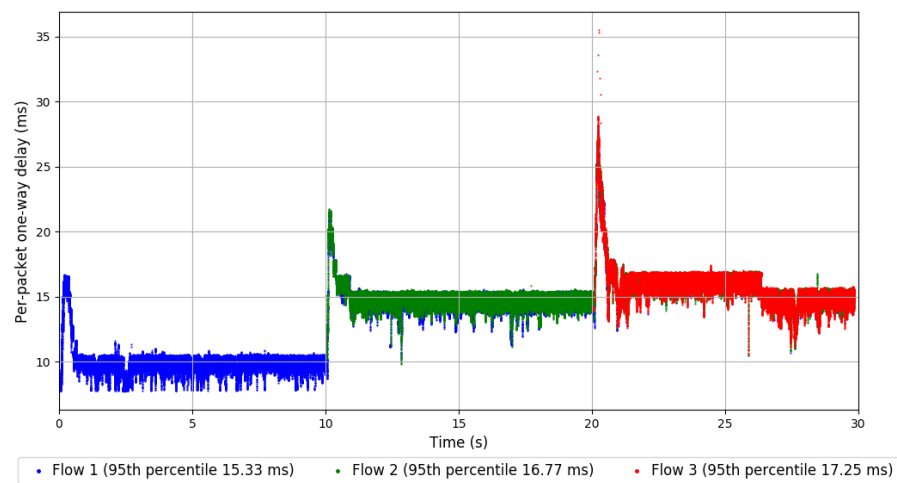
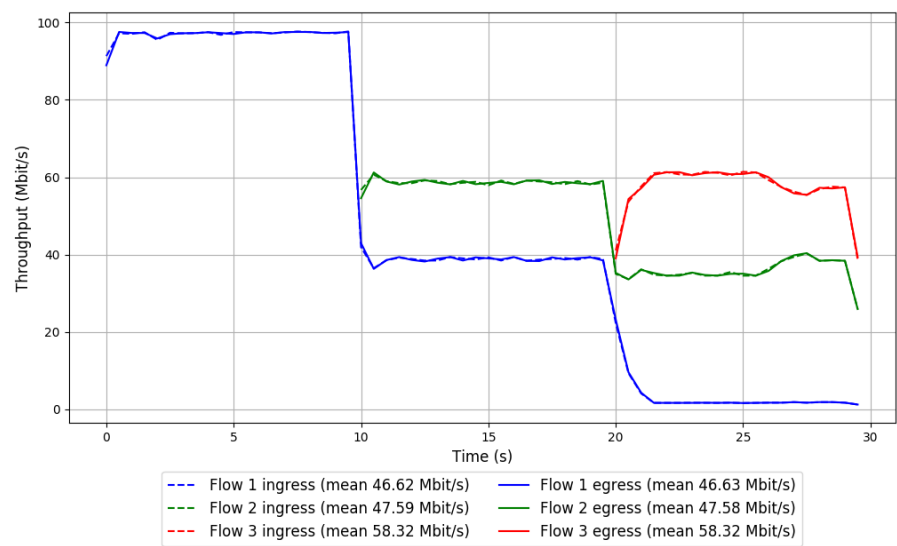
Run 3: Statistics of Indigo-1-32

Start at: 2018-02-04 18:16:37  
End at: 2018-02-04 18:17:07  
Local clock offset: -0.01 ms  
Remote clock offset: -5.435 ms

# Below is generated by plot.py at 2018-02-05 00:37:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.32 Mbit/s  
95th percentile per-packet one-way delay: 16.733 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 46.63 Mbit/s  
95th percentile per-packet one-way delay: 15.329 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 47.58 Mbit/s  
95th percentile per-packet one-way delay: 16.765 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 58.32 Mbit/s  
95th percentile per-packet one-way delay: 17.254 ms  
Loss rate: 0.12%



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

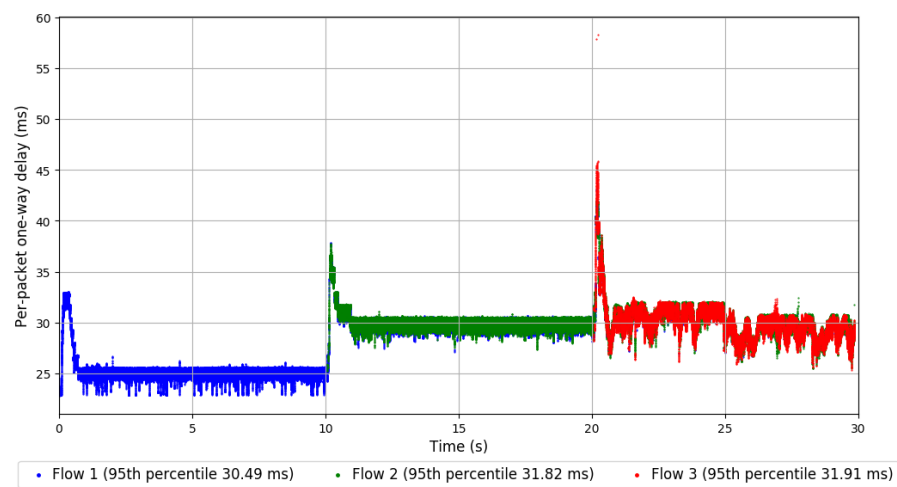
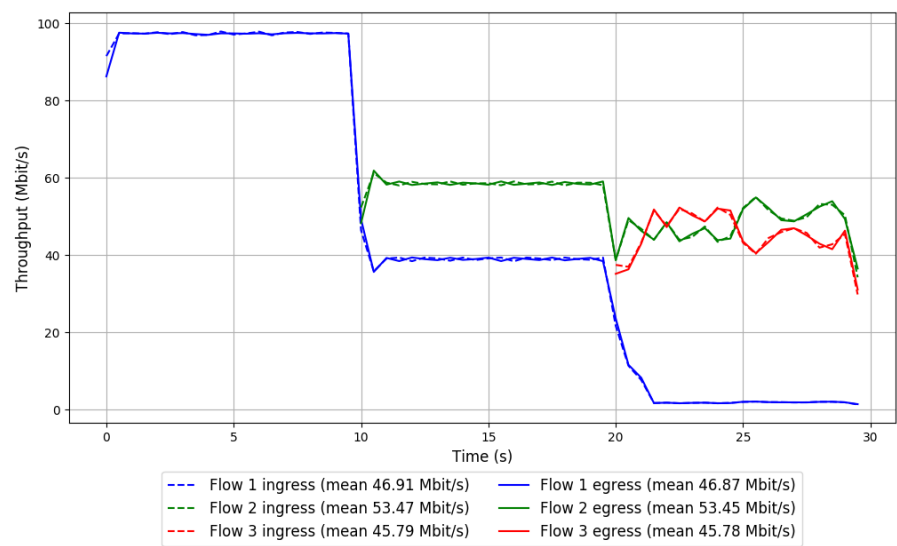


Run 4: Statistics of Indigo-1-32

Start at: 2018-02-04 18:37:02  
End at: 2018-02-04 18:37:32  
Local clock offset: 0.052 ms  
Remote clock offset: -19.981 ms

# Below is generated by plot.py at 2018-02-05 00:37:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.32 Mbit/s  
95th percentile per-packet one-way delay: 31.744 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 46.87 Mbit/s  
95th percentile per-packet one-way delay: 30.488 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 53.45 Mbit/s  
95th percentile per-packet one-way delay: 31.820 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 45.78 Mbit/s  
95th percentile per-packet one-way delay: 31.905 ms  
Loss rate: 0.13%

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

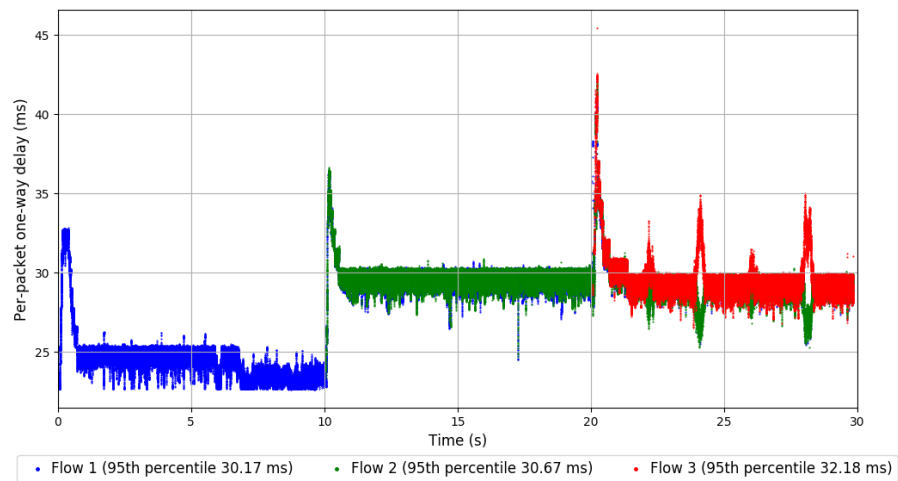
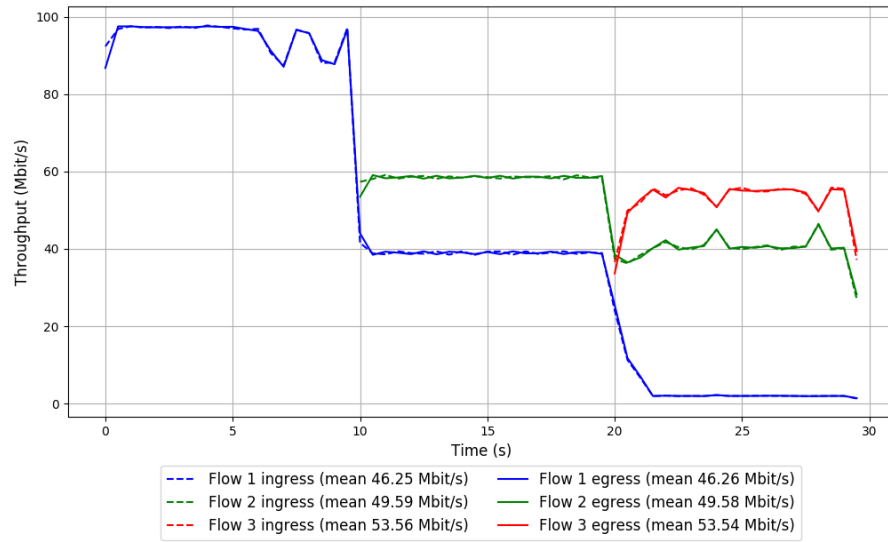


Run 5: Statistics of Indigo-1-32

Start at: 2018-02-04 18:57:29  
End at: 2018-02-04 18:57:59  
Local clock offset: 0.057 ms  
Remote clock offset: -17.839 ms

# Below is generated by plot.py at 2018-02-05 00:37:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.70 Mbit/s  
95th percentile per-packet one-way delay: 30.859 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 46.26 Mbit/s  
95th percentile per-packet one-way delay: 30.174 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 49.58 Mbit/s  
95th percentile per-packet one-way delay: 30.674 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 53.54 Mbit/s  
95th percentile per-packet one-way delay: 32.180 ms  
Loss rate: 0.12%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-04 19:17:52

End at: 2018-02-04 19:18:22

Local clock offset: -0.031 ms

Remote clock offset: 3.061 ms

# Below is generated by plot.py at 2018-02-05 00:37:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.83 Mbit/s

95th percentile per-packet one-way delay: 8.868 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 51.49 Mbit/s

95th percentile per-packet one-way delay: 8.578 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 9.054 ms

Loss rate: 0.04%

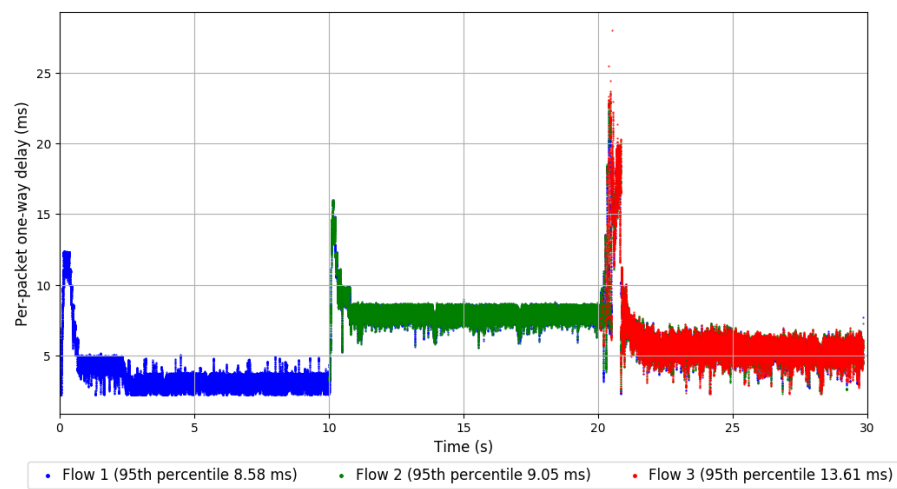
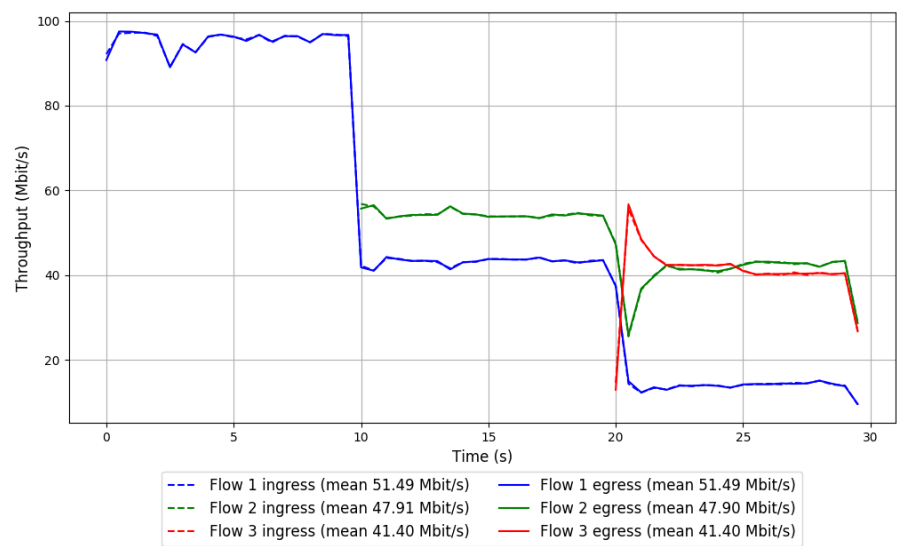
-- Flow 3:

Average throughput: 41.40 Mbit/s

95th percentile per-packet one-way delay: 13.611 ms

Loss rate: 0.07%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-04 19:38:19

End at: 2018-02-04 19:38:49

Local clock offset: 0.033 ms

Remote clock offset: 3.116 ms

# Below is generated by plot.py at 2018-02-05 00:37:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 11.396 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 46.79 Mbit/s

95th percentile per-packet one-way delay: 10.235 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 38.47 Mbit/s

95th percentile per-packet one-way delay: 11.363 ms

Loss rate: 0.03%

-- Flow 3:

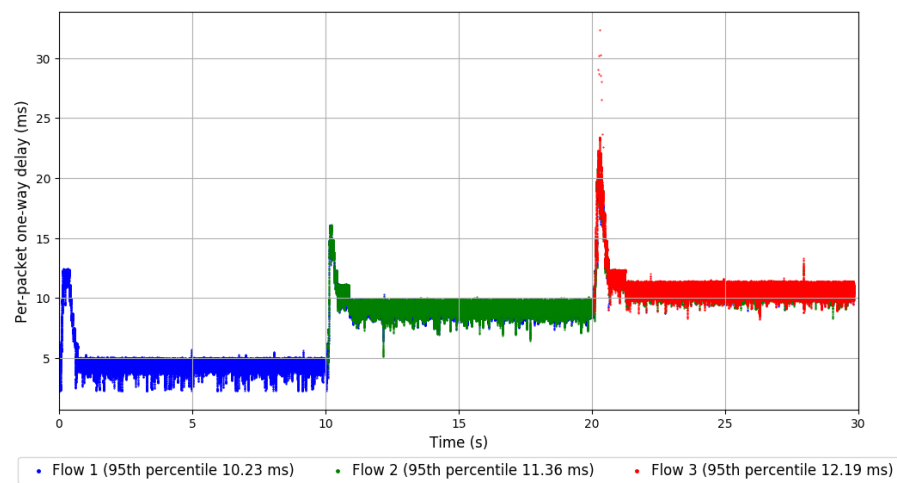
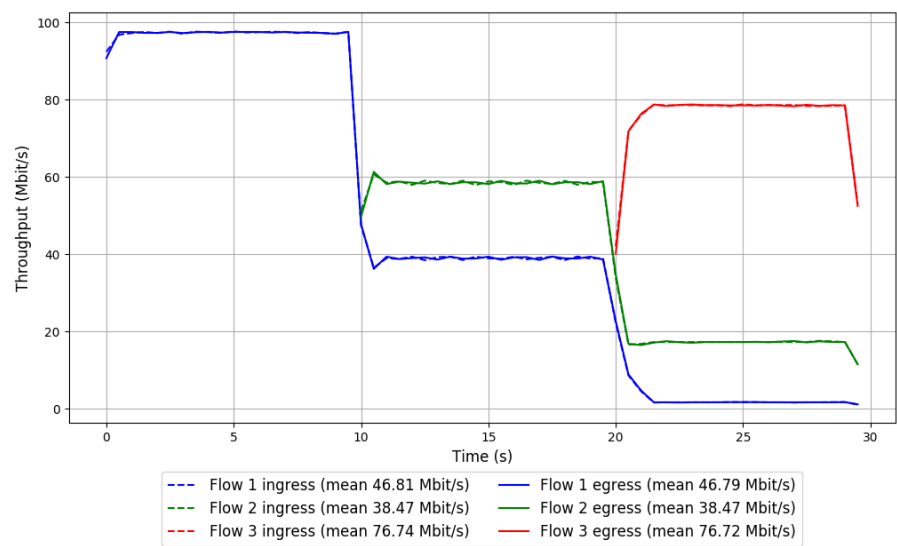
Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 12.193 ms

Loss rate: 0.14%



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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-04 19:58:43

End at: 2018-02-04 19:59:13

Local clock offset: -0.049 ms

Remote clock offset: 2.569 ms

# Below is generated by plot.py at 2018-02-05 00:37:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.03 Mbit/s

95th percentile per-packet one-way delay: 9.595 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 8.908 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.34 Mbit/s

95th percentile per-packet one-way delay: 9.615 ms

Loss rate: 0.04%

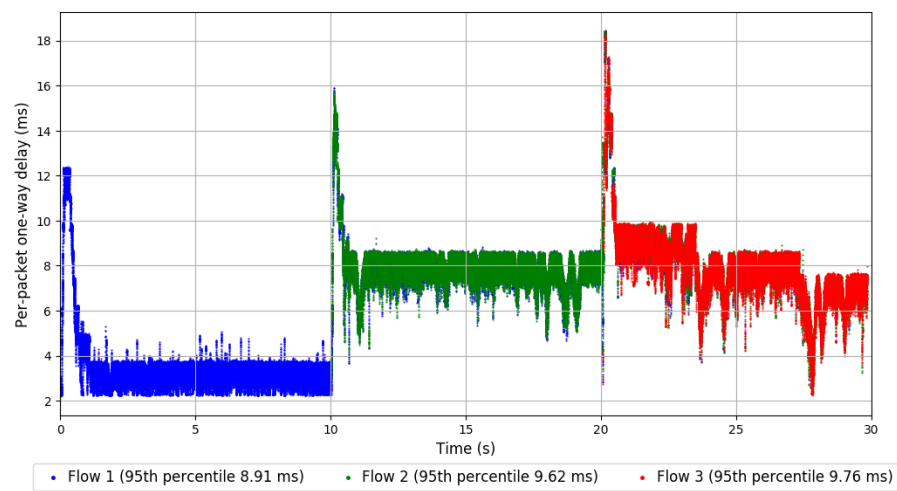
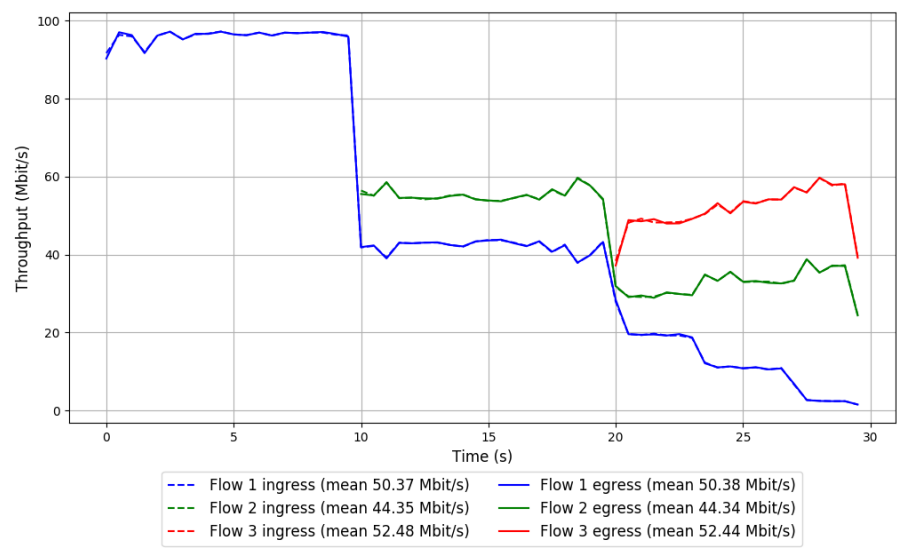
-- Flow 3:

Average throughput: 52.44 Mbit/s

95th percentile per-packet one-way delay: 9.755 ms

Loss rate: 0.11%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-04 20:19:13

End at: 2018-02-04 20:19:43

Local clock offset: 0.055 ms

Remote clock offset: 2.374 ms

# Below is generated by plot.py at 2018-02-05 00:37:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.22 Mbit/s

95th percentile per-packet one-way delay: 11.160 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 58.95 Mbit/s

95th percentile per-packet one-way delay: 10.551 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 28.84 Mbit/s

95th percentile per-packet one-way delay: 10.720 ms

Loss rate: 0.03%

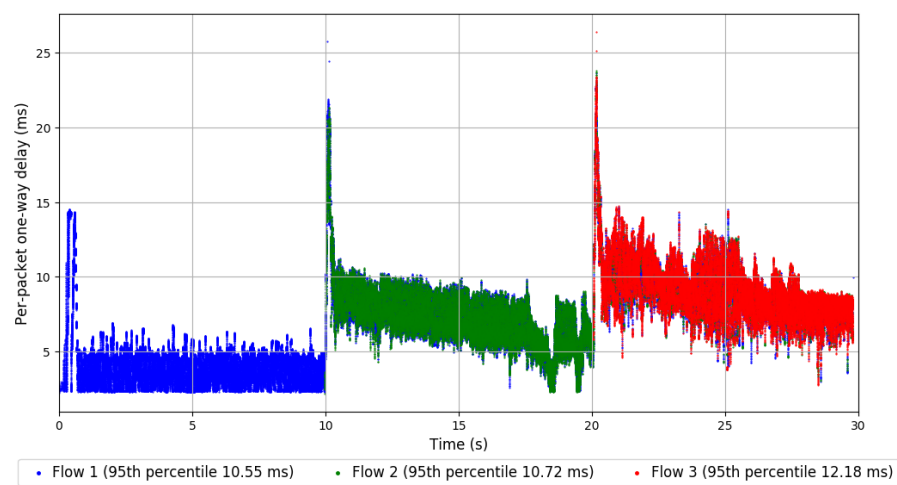
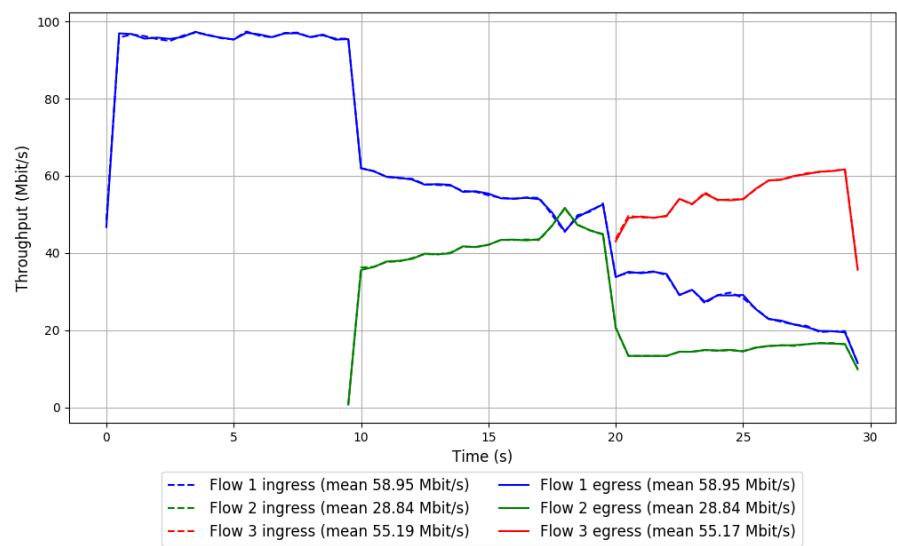
-- Flow 3:

Average throughput: 55.17 Mbit/s

95th percentile per-packet one-way delay: 12.175 ms

Loss rate: 0.12%

Run 9: Report of Indigo-1-32 — Data Link

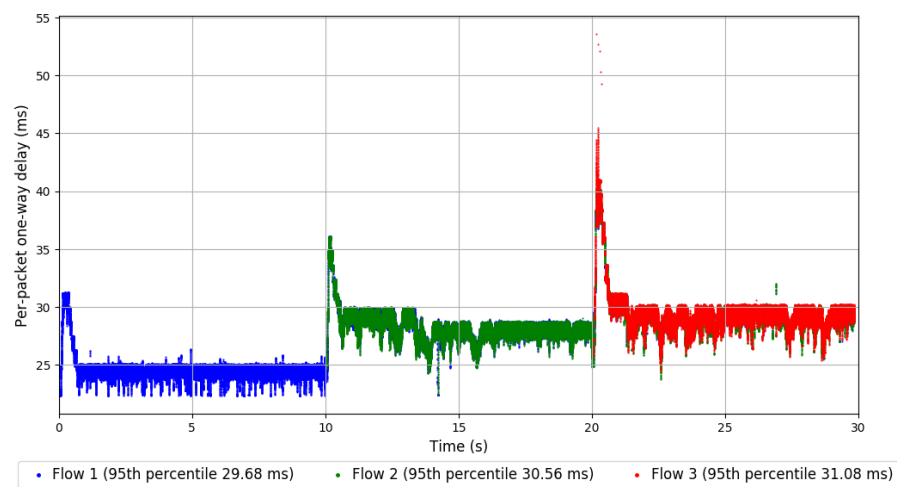
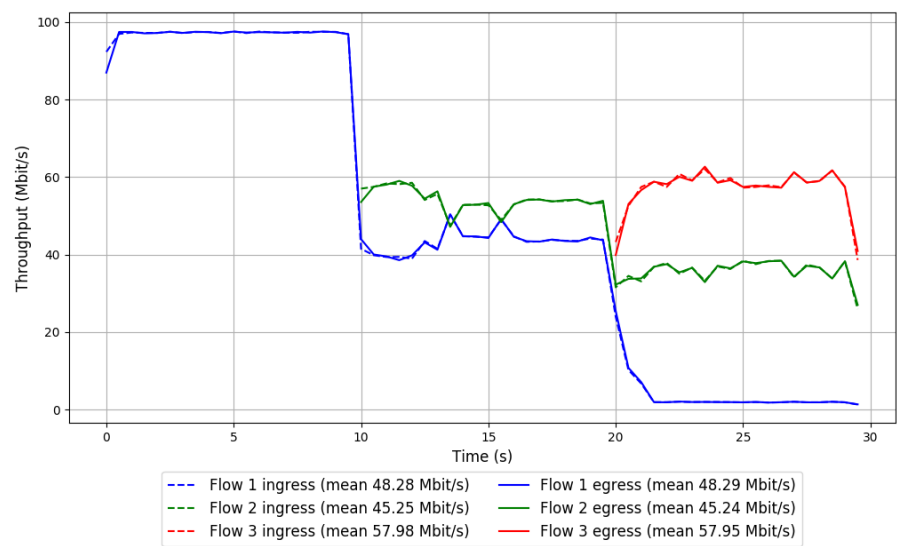


Run 10: Statistics of Indigo-1-32

Start at: 2018-02-04 20:39:37  
End at: 2018-02-04 20:40:07  
Local clock offset: -0.017 ms  
Remote clock offset: -17.719 ms

# Below is generated by plot.py at 2018-02-05 00:37:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.35 Mbit/s  
95th percentile per-packet one-way delay: 30.187 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 48.29 Mbit/s  
95th percentile per-packet one-way delay: 29.685 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 45.24 Mbit/s  
95th percentile per-packet one-way delay: 30.557 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 57.95 Mbit/s  
95th percentile per-packet one-way delay: 31.084 ms  
Loss rate: 0.12%

Run 10: Report of Indigo-1-32 — Data Link



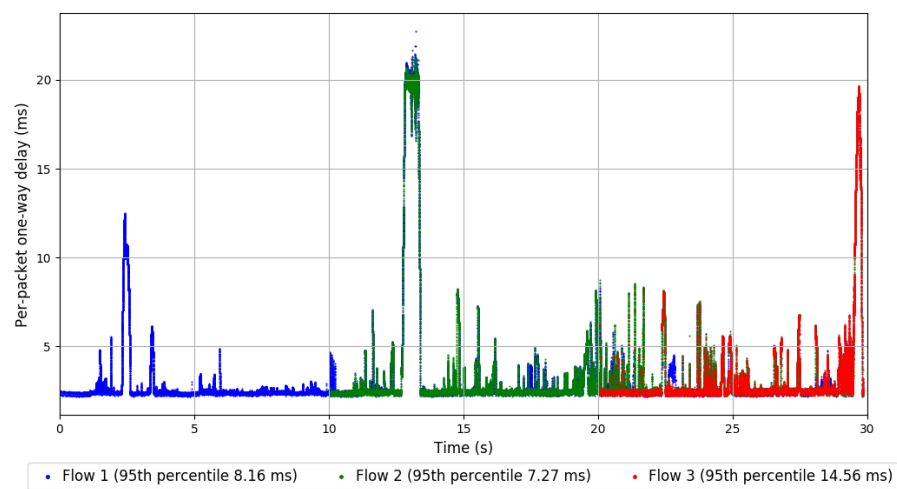
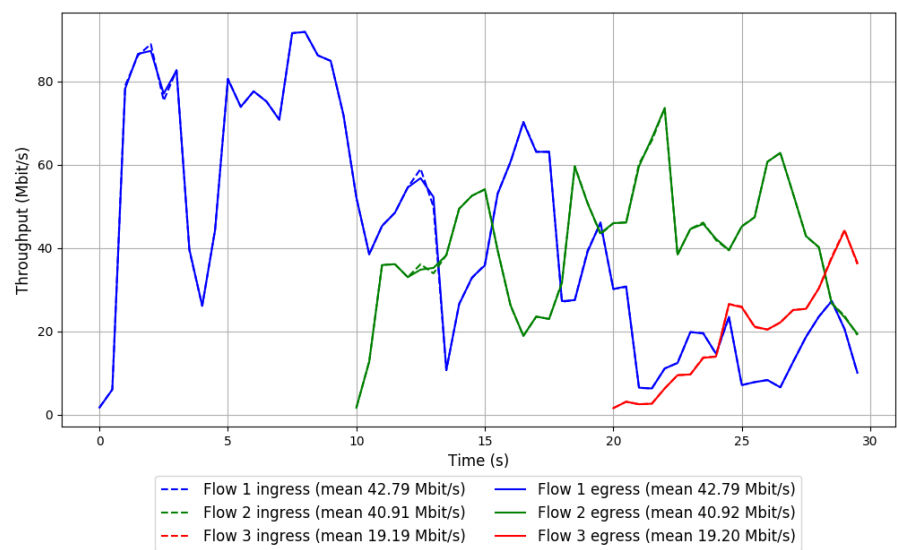
Run 1: Statistics of Vivace-latency

Start at: 2018-02-04 17:38:00  
End at: 2018-02-04 17:38:30  
Local clock offset: 0.043 ms  
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2018-02-05 00:38:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.30 Mbit/s  
95th percentile per-packet one-way delay: 7.957 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 42.79 Mbit/s  
95th percentile per-packet one-way delay: 8.156 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 40.92 Mbit/s  
95th percentile per-packet one-way delay: 7.272 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 19.20 Mbit/s  
95th percentile per-packet one-way delay: 14.556 ms  
Loss rate: 0.08%



Run 1: Report of Vivace-latency — Data Link

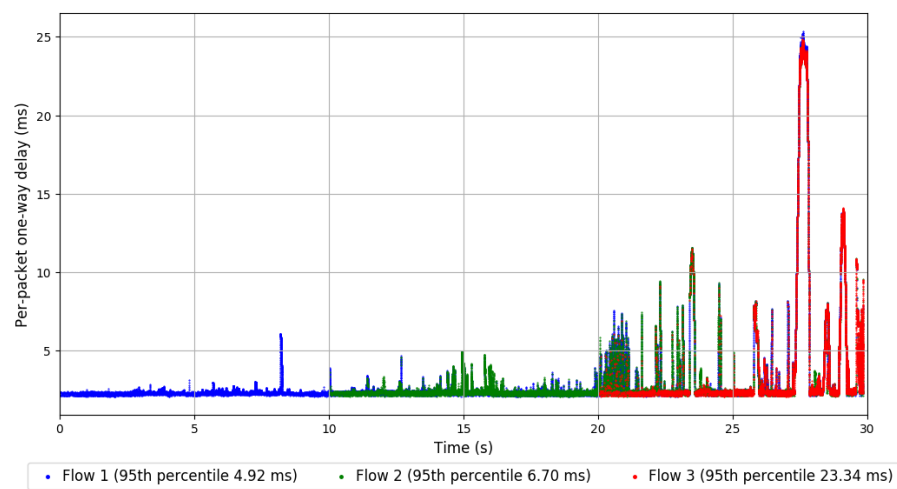
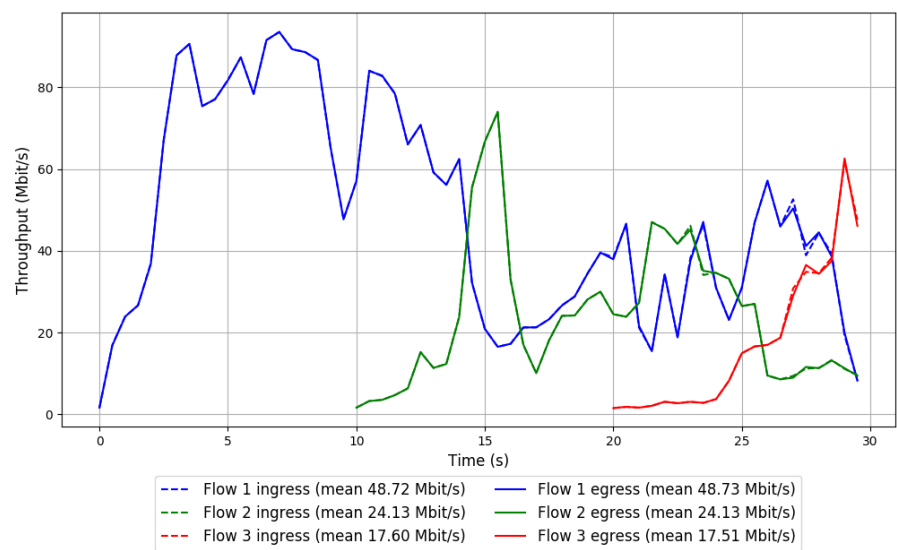


Run 2: Statistics of Vivace-latency

Start at: 2018-02-04 17:58:29  
End at: 2018-02-04 17:58:59  
Local clock offset: -0.03 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-02-05 00:38:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.53 Mbit/s  
95th percentile per-packet one-way delay: 7.056 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 48.73 Mbit/s  
95th percentile per-packet one-way delay: 4.922 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.13 Mbit/s  
95th percentile per-packet one-way delay: 6.695 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 17.51 Mbit/s  
95th percentile per-packet one-way delay: 23.345 ms  
Loss rate: 0.54%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-04 18:18:54

End at: 2018-02-04 18:19:24

Local clock offset: 0.007 ms

Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-02-05 00:38:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.12 Mbit/s

95th percentile per-packet one-way delay: 17.668 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 49.97 Mbit/s

95th percentile per-packet one-way delay: 16.519 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 17.995 ms

Loss rate: 0.02%

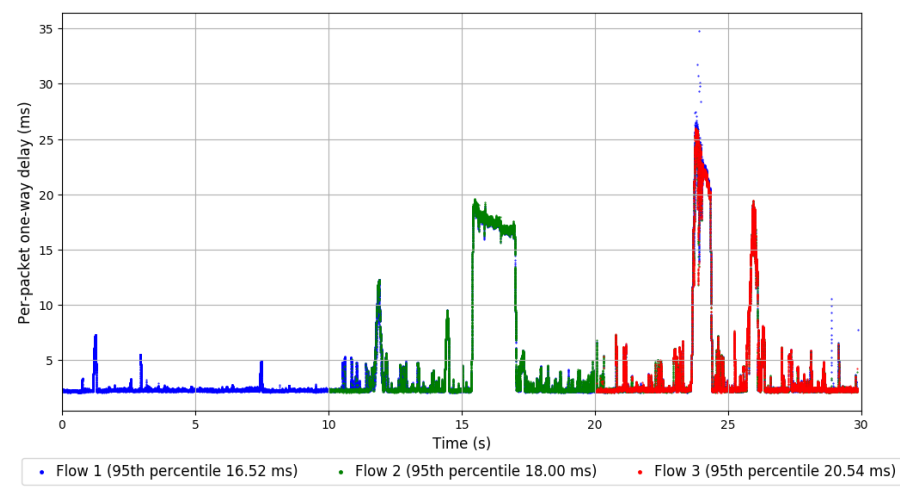
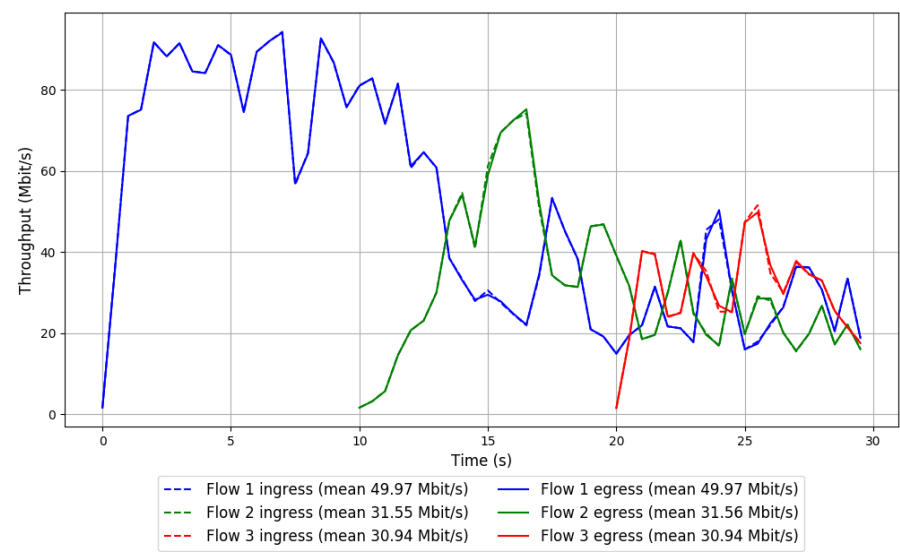
-- Flow 3:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 20.544 ms

Loss rate: 0.04%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-04 18:39:19

End at: 2018-02-04 18:39:49

Local clock offset: 0.034 ms

Remote clock offset: 0.806 ms

# Below is generated by plot.py at 2018-02-05 00:38:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 76.90 Mbit/s

95th percentile per-packet one-way delay: 17.007 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 52.56 Mbit/s

95th percentile per-packet one-way delay: 17.121 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 16.756 ms

Loss rate: 0.01%

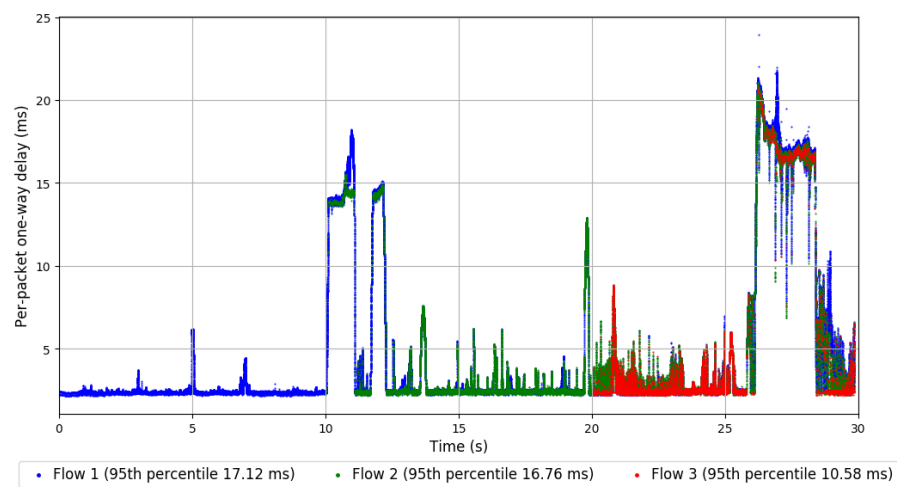
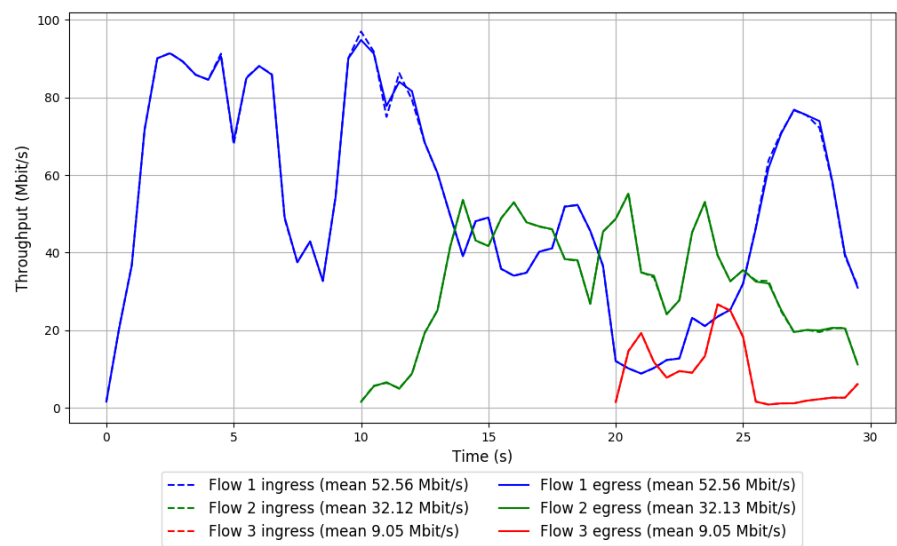
-- Flow 3:

Average throughput: 9.05 Mbit/s

95th percentile per-packet one-way delay: 10.584 ms

Loss rate: 0.10%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-04 18:59:45

End at: 2018-02-04 19:00:15

Local clock offset: -0.023 ms

Remote clock offset: 2.511 ms

# Below is generated by plot.py at 2018-02-05 00:38:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 5.568 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.47 Mbit/s

95th percentile per-packet one-way delay: 2.653 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 3.35 Mbit/s

95th percentile per-packet one-way delay: 2.607 ms

Loss rate: 0.00%

-- Flow 3:

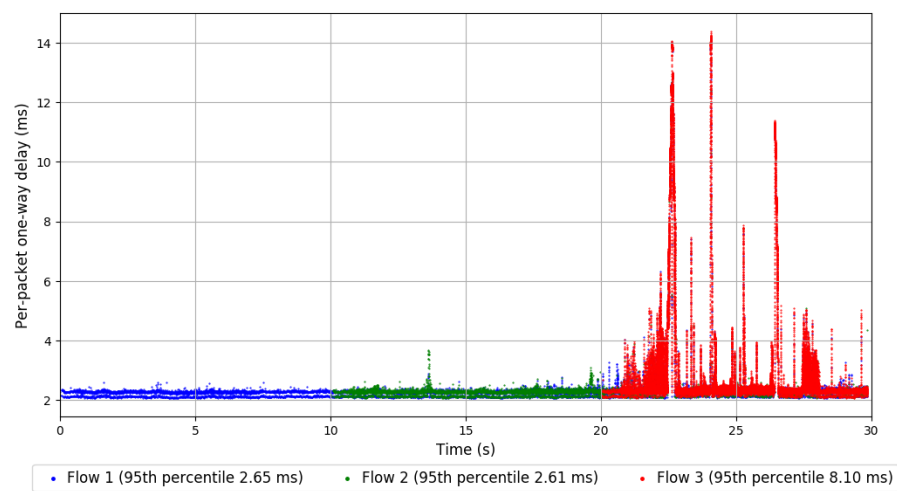
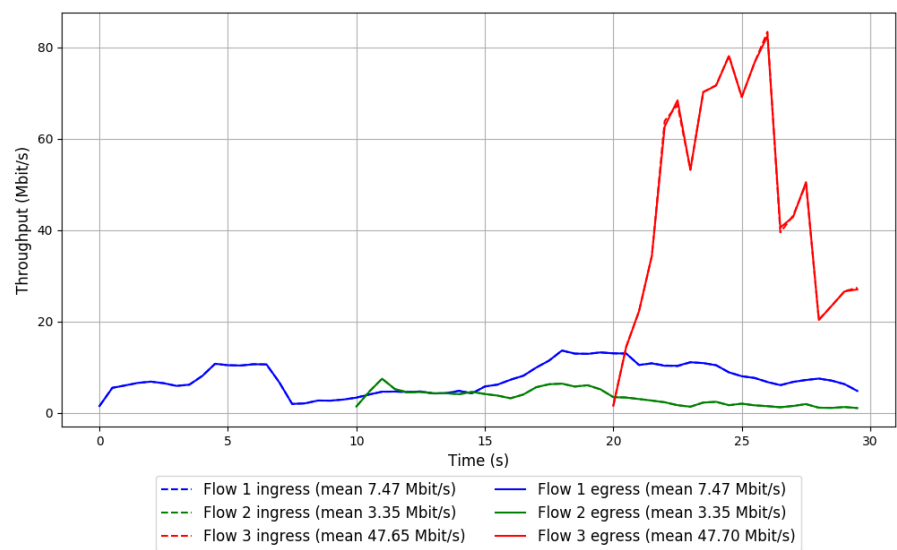
Average throughput: 47.70 Mbit/s

95th percentile per-packet one-way delay: 8.103 ms

Loss rate: 0.06%



Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-04 19:20:09

End at: 2018-02-04 19:20:39

Local clock offset: 0.064 ms

Remote clock offset: 3.121 ms

# Below is generated by plot.py at 2018-02-05 00:38:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 19.716 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.83 Mbit/s

95th percentile per-packet one-way delay: 13.534 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 21.219 ms

Loss rate: 0.01%

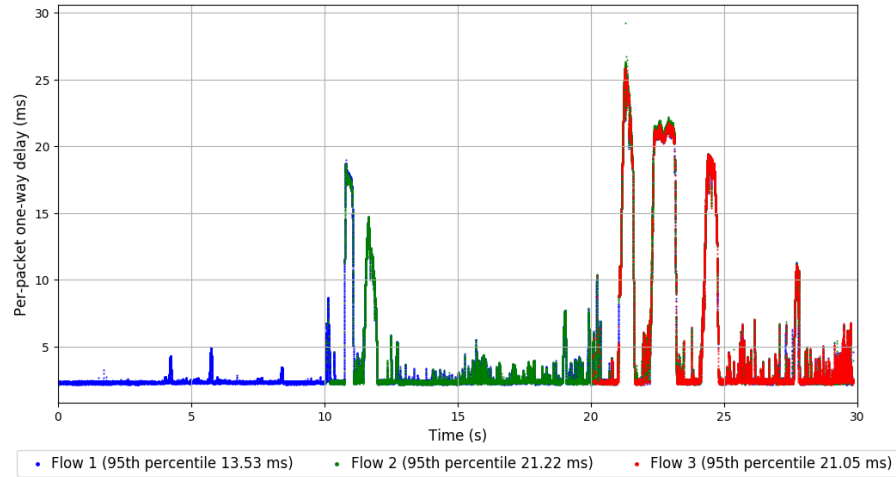
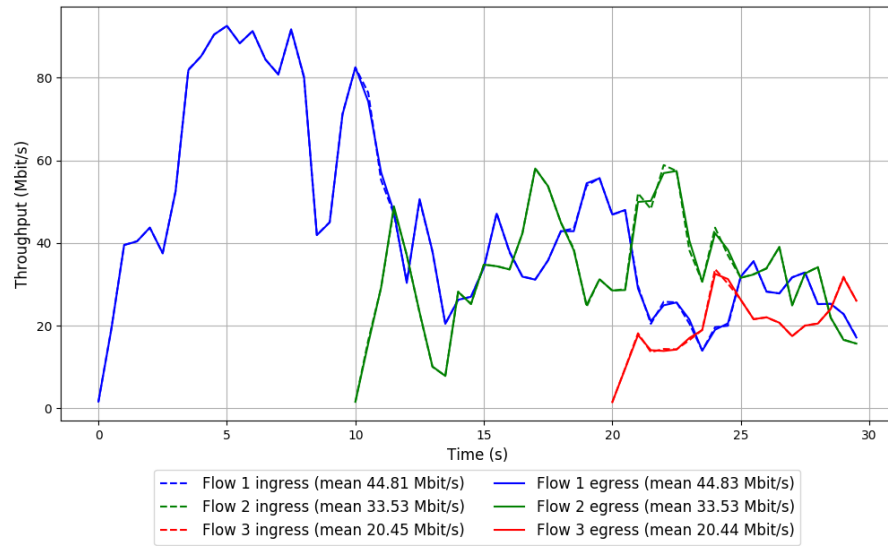
-- Flow 3:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 21.053 ms

Loss rate: 0.08%

## Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-04 19:40:36

End at: 2018-02-04 19:41:06

Local clock offset: 0.052 ms

Remote clock offset: 3.038 ms

# Below is generated by plot.py at 2018-02-05 00:38:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 39.91 Mbit/s

95th percentile per-packet one-way delay: 5.404 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 4.365 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 47.17 Mbit/s

95th percentile per-packet one-way delay: 5.767 ms

Loss rate: 0.01%

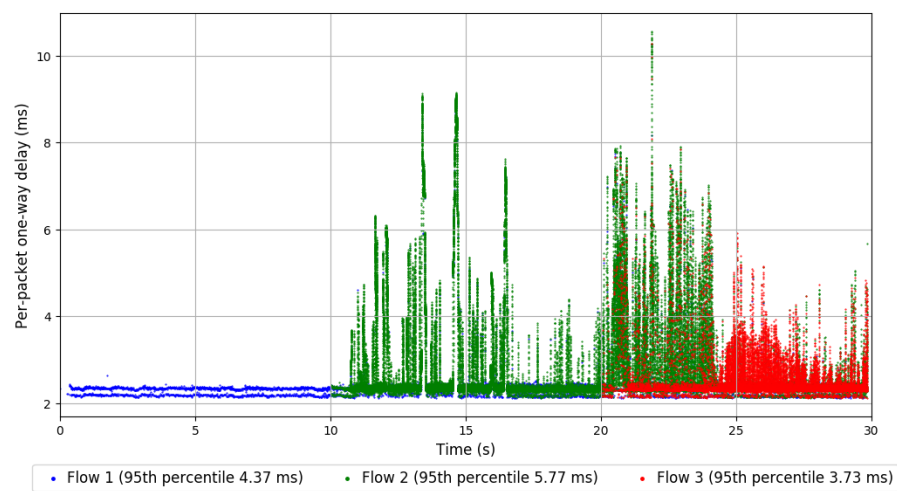
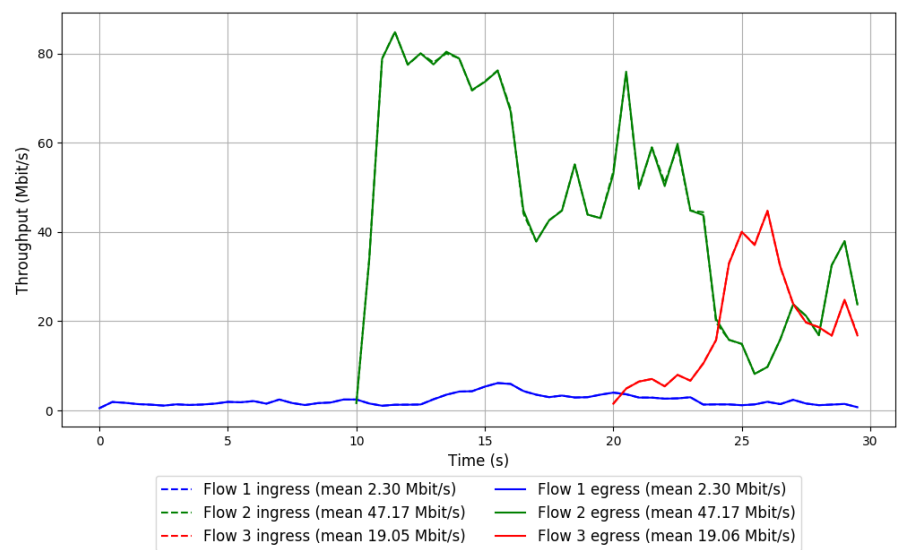
-- Flow 3:

Average throughput: 19.06 Mbit/s

95th percentile per-packet one-way delay: 3.730 ms

Loss rate: 0.07%

Run 7: Report of Vivace-latency — Data Link

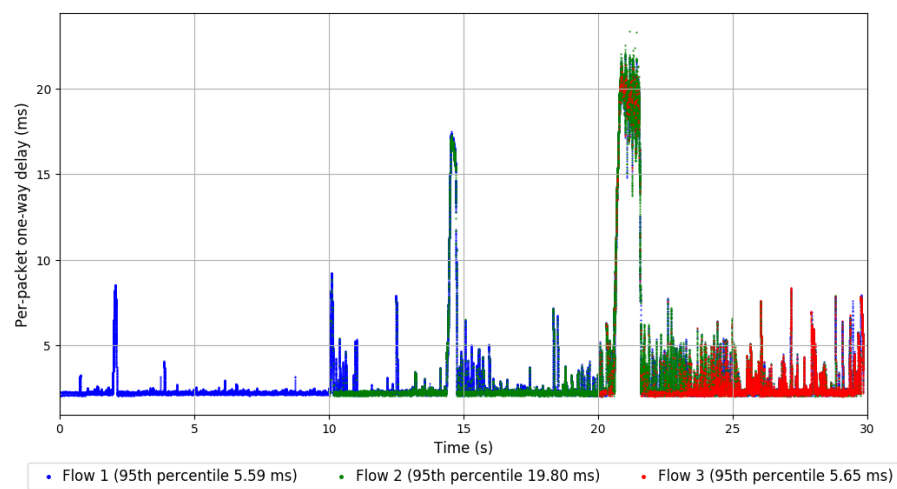
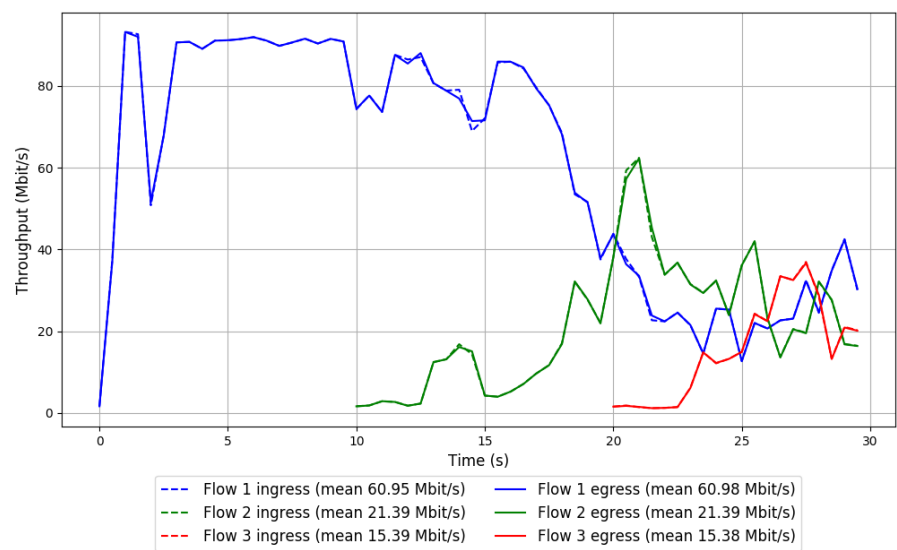


Run 8: Statistics of Vivace-latency

Start at: 2018-02-04 20:01:00  
End at: 2018-02-04 20:01:30  
Local clock offset: -0.058 ms  
Remote clock offset: 2.551 ms

# Below is generated by plot.py at 2018-02-05 00:39:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.26 Mbit/s  
95th percentile per-packet one-way delay: 8.531 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 60.98 Mbit/s  
95th percentile per-packet one-way delay: 5.587 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.39 Mbit/s  
95th percentile per-packet one-way delay: 19.798 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 15.38 Mbit/s  
95th percentile per-packet one-way delay: 5.648 ms  
Loss rate: 0.11%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-04 20:21:29

End at: 2018-02-04 20:21:59

Local clock offset: 0.062 ms

Remote clock offset: 2.304 ms

# Below is generated by plot.py at 2018-02-05 00:39:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.04 Mbit/s

95th percentile per-packet one-way delay: 16.959 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 16.437 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 54.76 Mbit/s

95th percentile per-packet one-way delay: 16.980 ms

Loss rate: 0.02%

-- Flow 3:

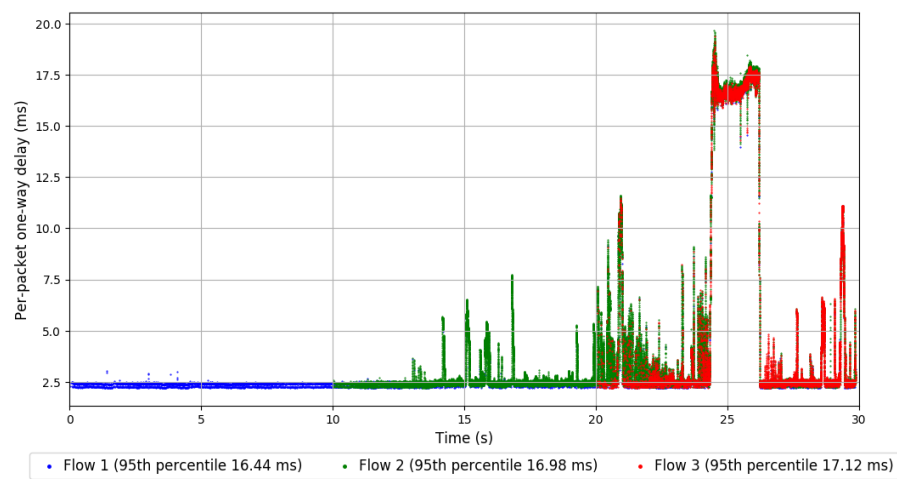
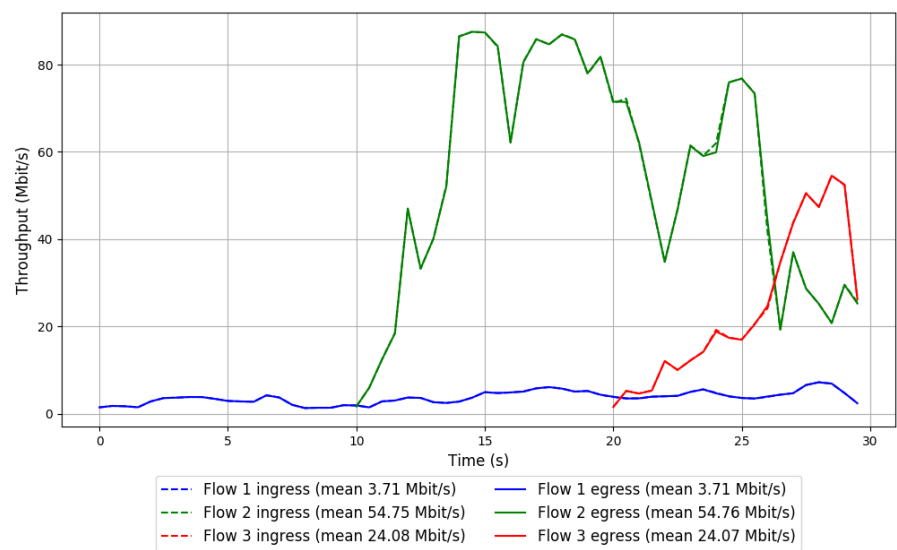
Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 17.118 ms

Loss rate: 0.05%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-04 20:41:55

End at: 2018-02-04 20:42:25

Local clock offset: 0.037 ms

Remote clock offset: 2.377 ms

# Below is generated by plot.py at 2018-02-05 00:39:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 5.413 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 52.48 Mbit/s

95th percentile per-packet one-way delay: 5.144 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.05 Mbit/s

95th percentile per-packet one-way delay: 5.671 ms

Loss rate: 0.03%

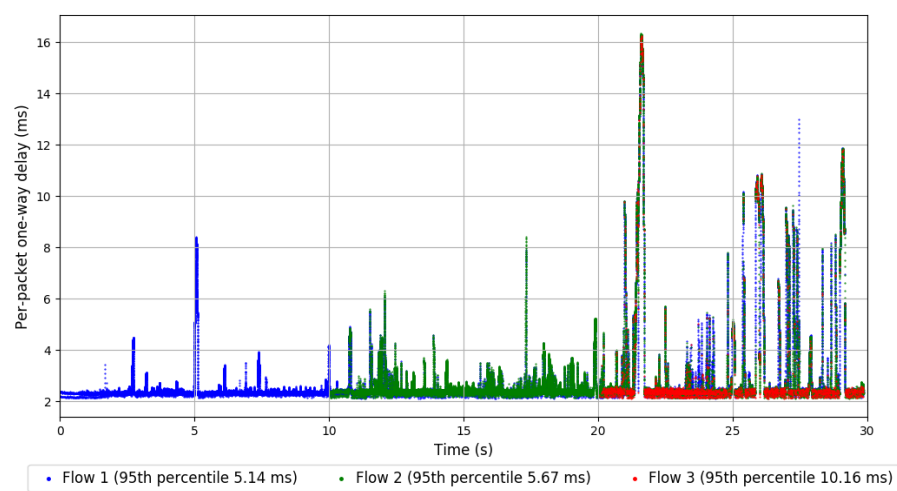
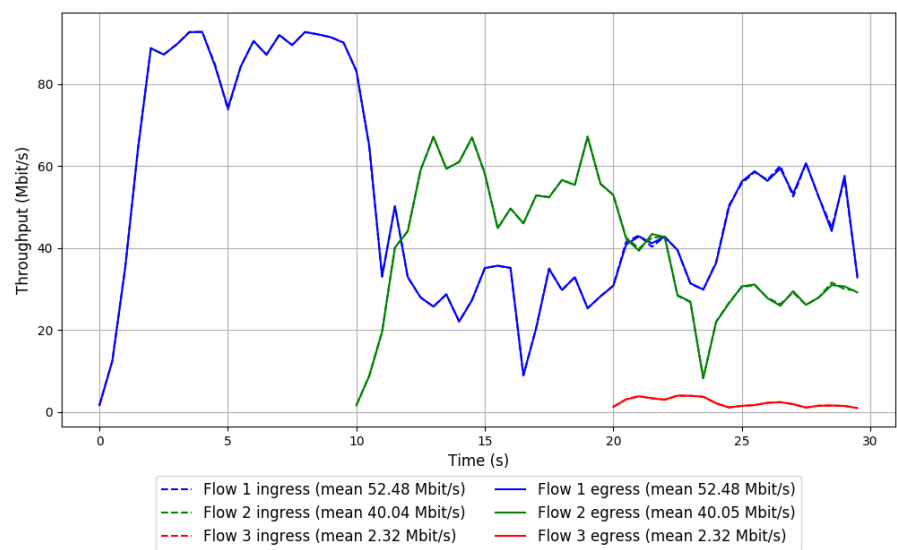
-- Flow 3:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 10.164 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

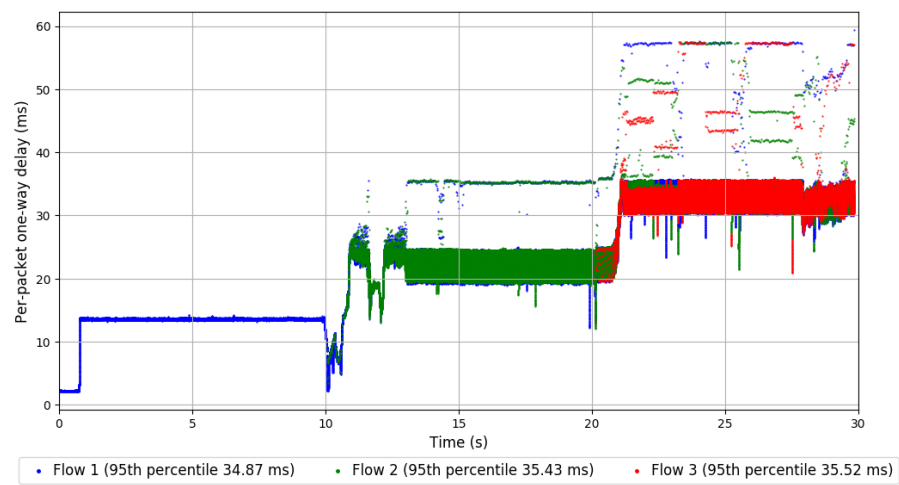
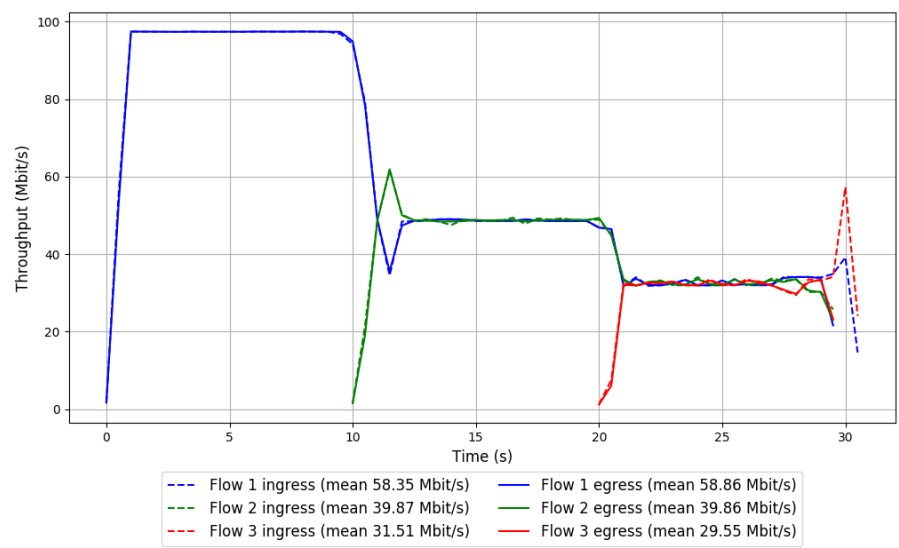


Run 1: Statistics of Vivace-loss

Start at: 2018-02-04 17:26:38  
End at: 2018-02-04 17:27:08  
Local clock offset: -0.092 ms  
Remote clock offset: -0.755 ms

# Below is generated by plot.py at 2018-02-05 00:39:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.01 Mbit/s  
95th percentile per-packet one-way delay: 35.380 ms  
Loss rate: 2.88%  
-- Flow 1:  
Average throughput: 58.86 Mbit/s  
95th percentile per-packet one-way delay: 34.874 ms  
Loss rate: 1.93%  
-- Flow 2:  
Average throughput: 39.86 Mbit/s  
95th percentile per-packet one-way delay: 35.433 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 29.55 Mbit/s  
95th percentile per-packet one-way delay: 35.517 ms  
Loss rate: 14.02%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-04 17:47:12

End at: 2018-02-04 17:47:42

Local clock offset: -0.055 ms

Remote clock offset: -0.351 ms

Run 2: Report of Vivace-loss — Data Link

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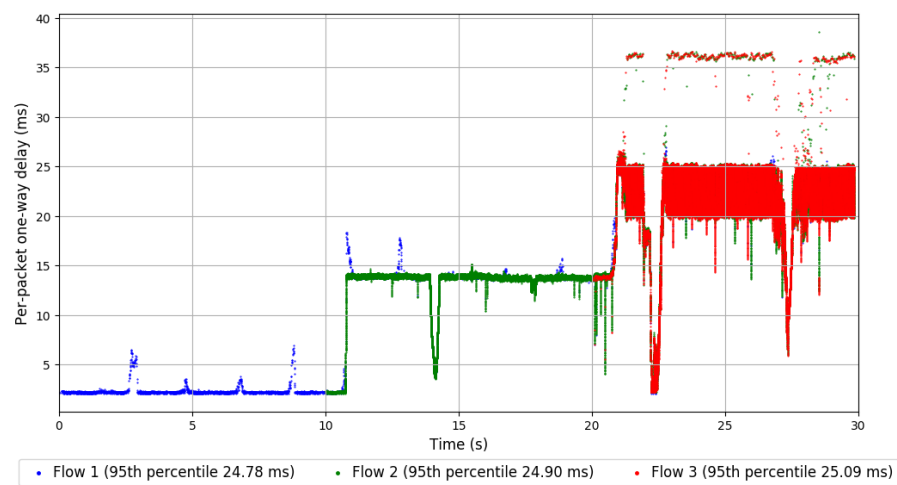
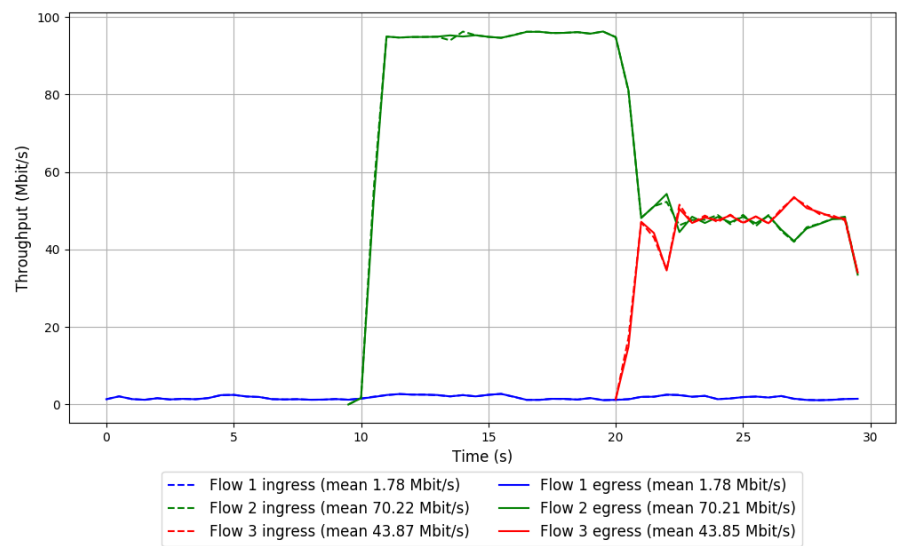
Run 3: Statistics of Vivace-loss

Start at: 2018-02-04 18:07:35  
End at: 2018-02-04 18:08:05  
Local clock offset: -0.037 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-02-05 00:39:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.89 Mbit/s  
95th percentile per-packet one-way delay: 24.987 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 1.78 Mbit/s  
95th percentile per-packet one-way delay: 24.782 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 70.21 Mbit/s  
95th percentile per-packet one-way delay: 24.904 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 43.85 Mbit/s  
95th percentile per-packet one-way delay: 25.090 ms  
Loss rate: 0.32%



Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-04 18:28:04

End at: 2018-02-04 18:28:34

Local clock offset: -0.039 ms

Remote clock offset: 0.283 ms

Run 4: Report of Vivace-loss — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Vivace-loss

Start at: 2018-02-04 18:48:27

End at: 2018-02-04 18:48:57

Local clock offset: 0.056 ms

Remote clock offset: 1.829 ms

# Below is generated by plot.py at 2018-02-05 00:39:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.90 Mbit/s

95th percentile per-packet one-way delay: 25.337 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 63.22 Mbit/s

95th percentile per-packet one-way delay: 25.207 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 25.495 ms

Loss rate: 0.12%

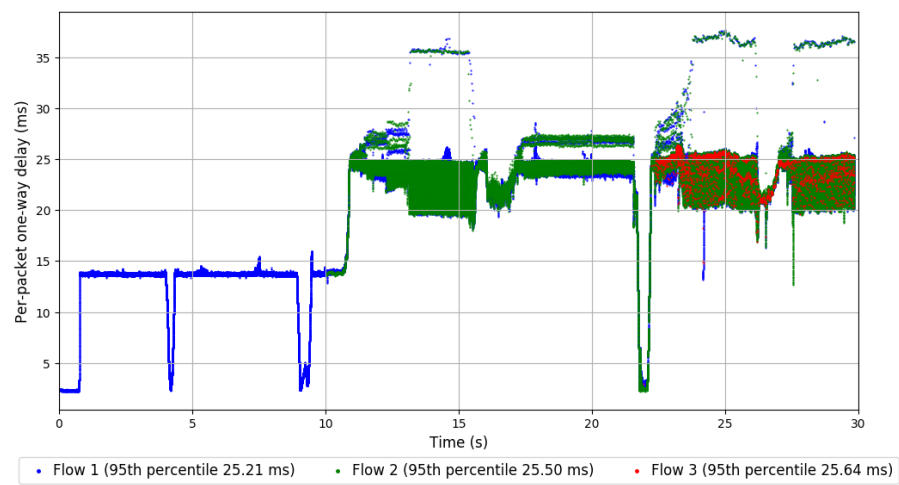
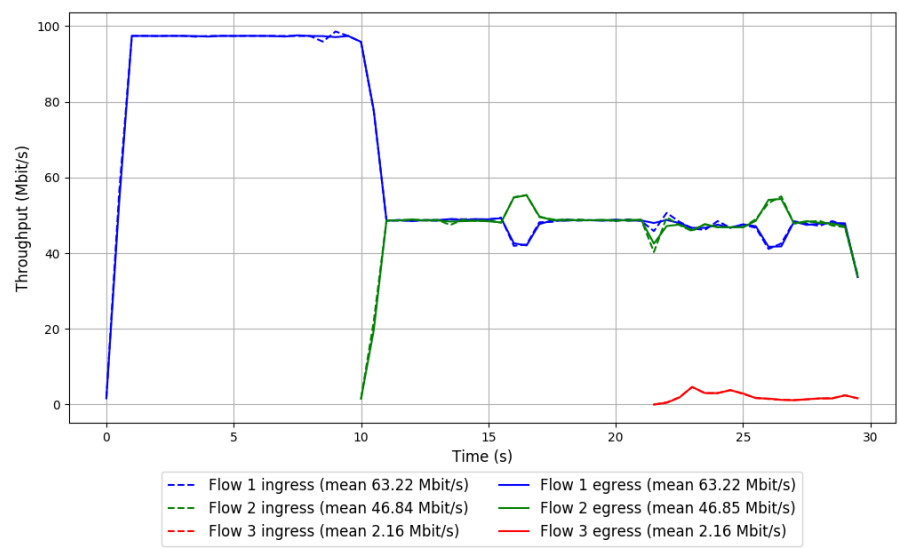
-- Flow 3:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 25.640 ms

Loss rate: 0.28%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-04 19:08:50

End at: 2018-02-04 19:09:20

Local clock offset: -0.044 ms

Remote clock offset: 2.784 ms

# Below is generated by plot.py at 2018-02-05 00:39:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.98 Mbit/s

95th percentile per-packet one-way delay: 35.375 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.92 Mbit/s

95th percentile per-packet one-way delay: 35.210 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 35.420 ms

Loss rate: 0.14%

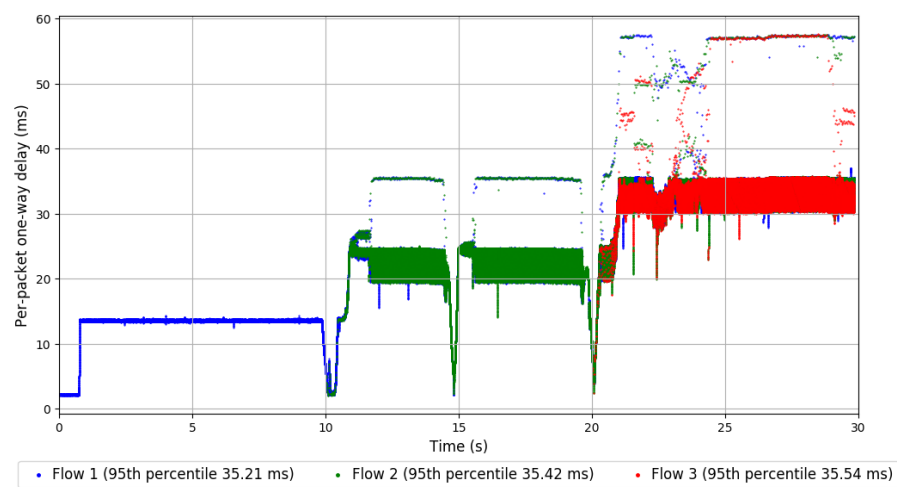
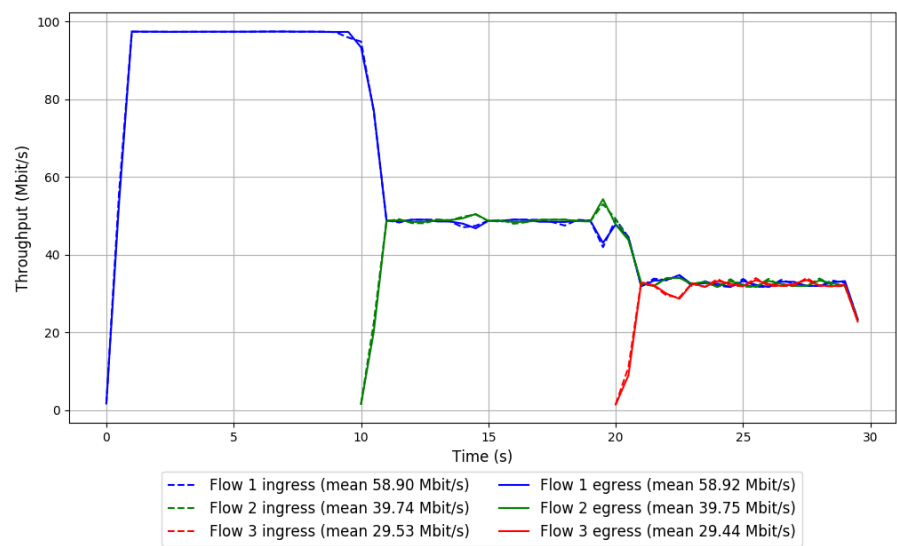
-- Flow 3:

Average throughput: 29.44 Mbit/s

95th percentile per-packet one-way delay: 35.536 ms

Loss rate: 0.37%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-04 19:29:17

End at: 2018-02-04 19:29:47

Local clock offset: 0.065 ms

Remote clock offset: 3.325 ms



Run 7: Report of Vivace-loss — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Vivace-loss

Start at: 2018-02-04 19:49:43

End at: 2018-02-04 19:50:13

Local clock offset: -0.056 ms

Remote clock offset: 2.78 ms

Run 8: Report of Vivace-loss — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Vivace-loss

Start at: 2018-02-04 20:10:08

End at: 2018-02-04 20:10:38

Local clock offset: 0.025 ms

Remote clock offset: 2.404 ms

# Below is generated by plot.py at 2018-02-05 00:39:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 25.212 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 24.949 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 70.64 Mbit/s

95th percentile per-packet one-way delay: 25.111 ms

Loss rate: 0.08%

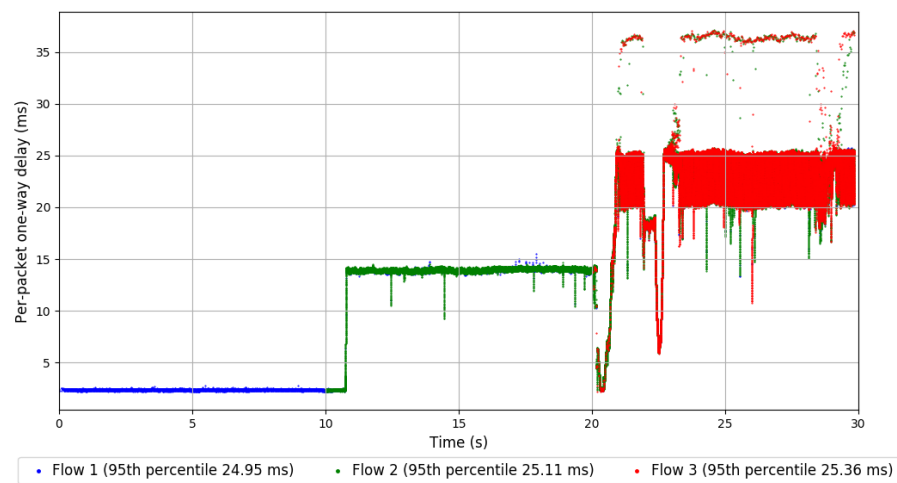
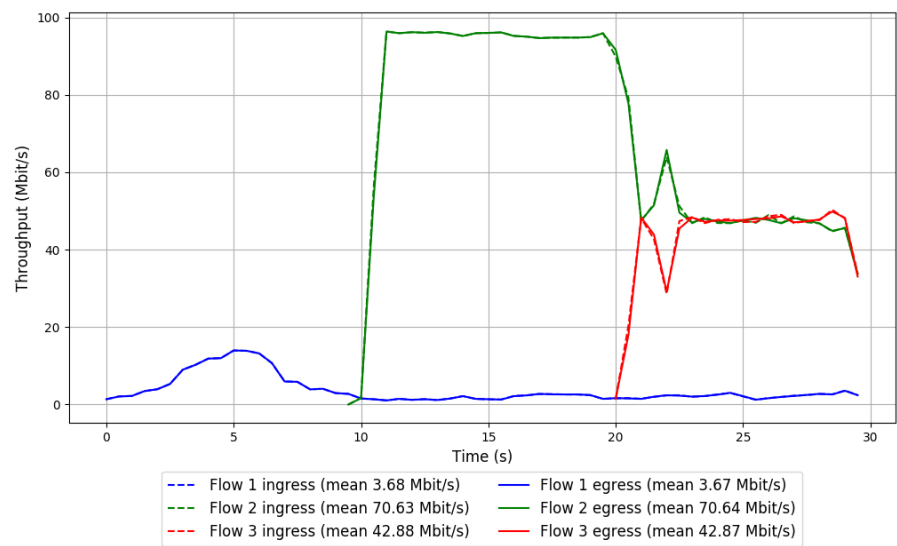
-- Flow 3:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 25.363 ms

Loss rate: 0.37%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-04 20:30:37

End at: 2018-02-04 20:31:07

Local clock offset: 0.061 ms

Remote clock offset: 2.379 ms

# Below is generated by plot.py at 2018-02-05 00:39:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 63.93 Mbit/s

95th percentile per-packet one-way delay: 25.244 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 3.69 Mbit/s

95th percentile per-packet one-way delay: 24.998 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 68.94 Mbit/s

95th percentile per-packet one-way delay: 25.186 ms

Loss rate: 0.24%

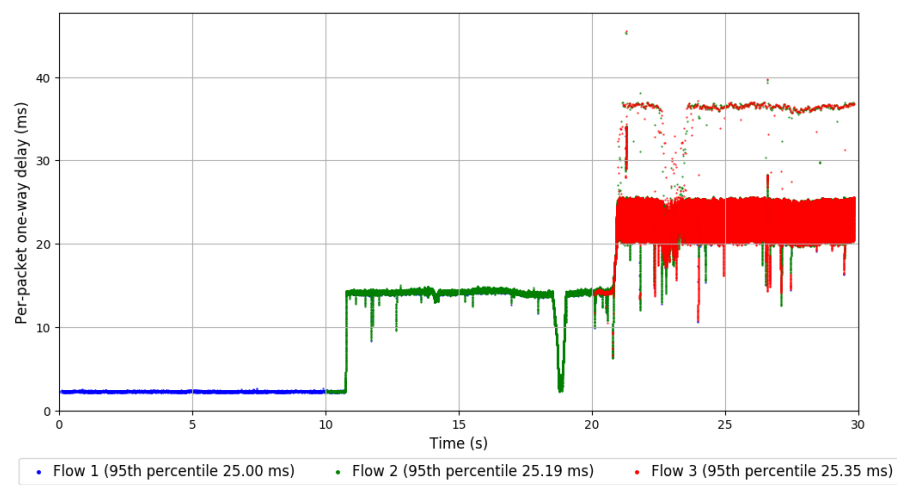
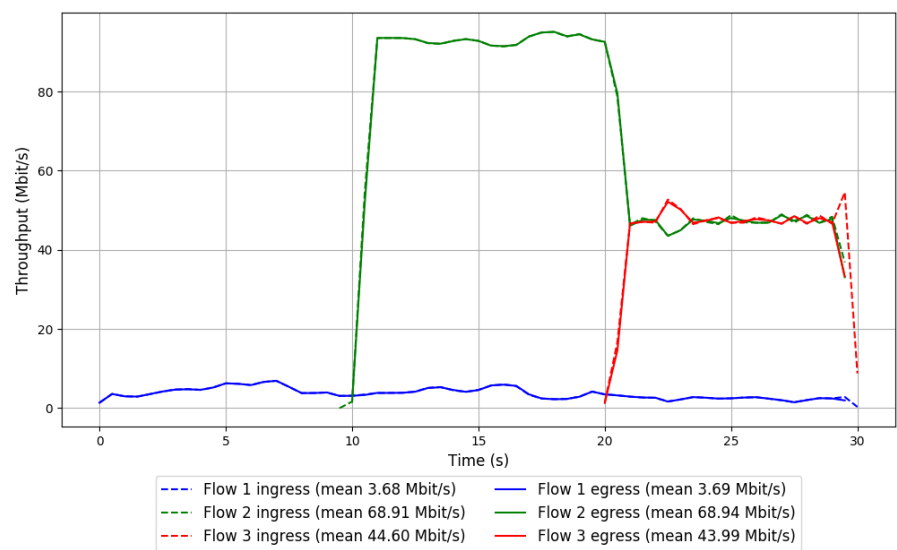
-- Flow 3:

Average throughput: 43.99 Mbit/s

95th percentile per-packet one-way delay: 25.346 ms

Loss rate: 3.65%

Run 10: Report of Vivace-loss — Data Link



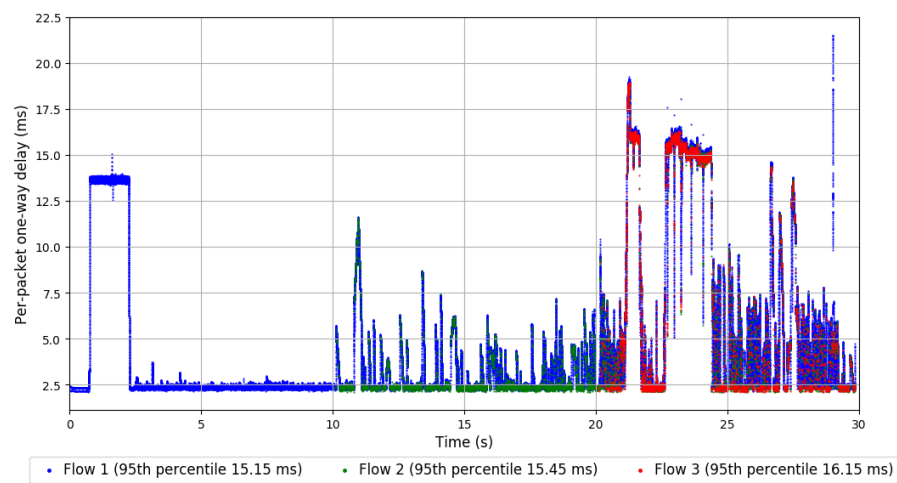
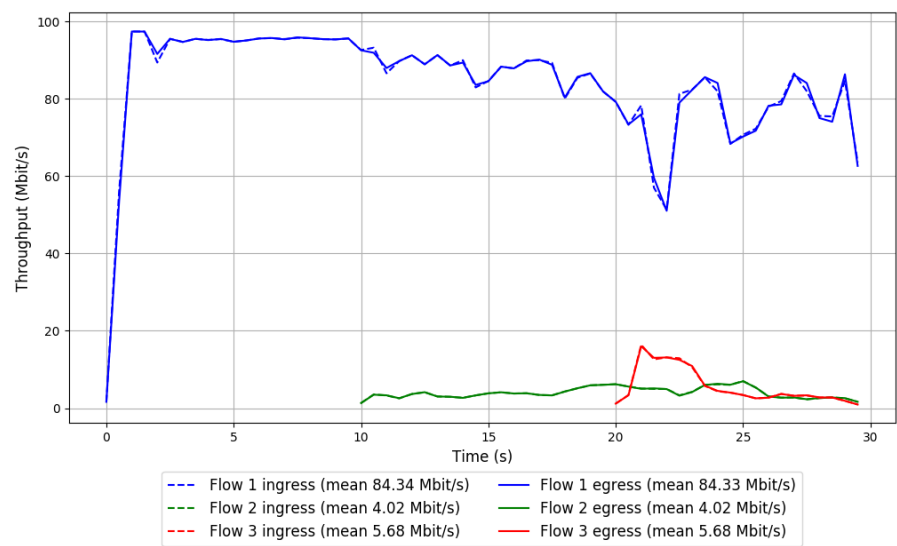
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-04 17:28:53  
End at: 2018-02-04 17:29:23  
Local clock offset: -0.045 ms  
Remote clock offset: -0.739 ms

# Below is generated by plot.py at 2018-02-05 00:40:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.87 Mbit/s  
95th percentile per-packet one-way delay: 15.263 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 84.33 Mbit/s  
95th percentile per-packet one-way delay: 15.149 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 4.02 Mbit/s  
95th percentile per-packet one-way delay: 15.448 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 5.68 Mbit/s  
95th percentile per-packet one-way delay: 16.151 ms  
Loss rate: 0.02%



Run 1: Report of Vivace-LTE — Data Link

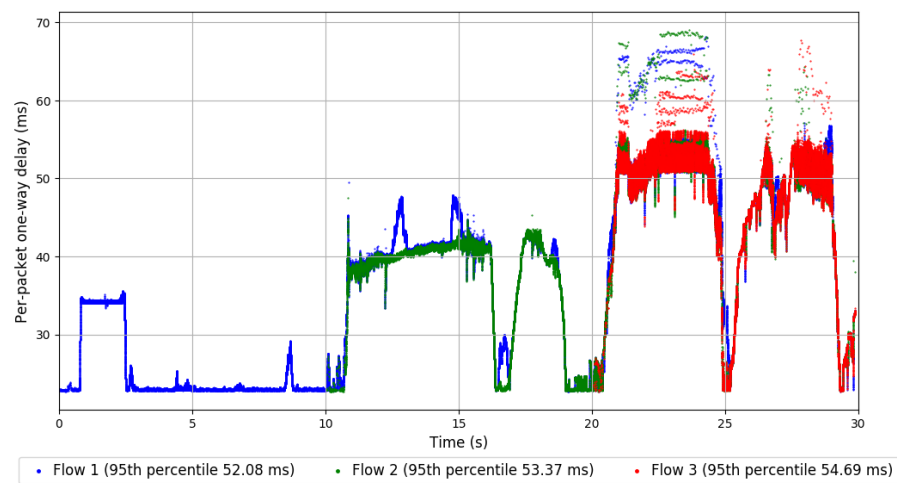
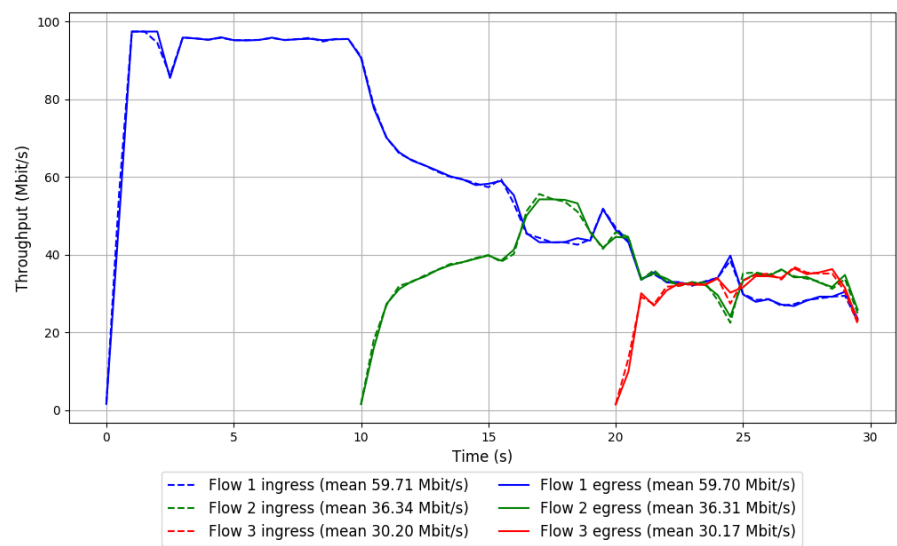


Run 2: Statistics of Vivace-LTE

Start at: 2018-02-04 17:49:24  
End at: 2018-02-04 17:49:54  
Local clock offset: 0.024 ms  
Remote clock offset: -20.847 ms

# Below is generated by plot.py at 2018-02-05 00:40:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.73 Mbit/s  
95th percentile per-packet one-way delay: 53.118 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 59.70 Mbit/s  
95th percentile per-packet one-way delay: 52.083 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 36.31 Mbit/s  
95th percentile per-packet one-way delay: 53.367 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 30.17 Mbit/s  
95th percentile per-packet one-way delay: 54.686 ms  
Loss rate: 0.16%

Run 2: Report of Vivace-LTE — Data Link

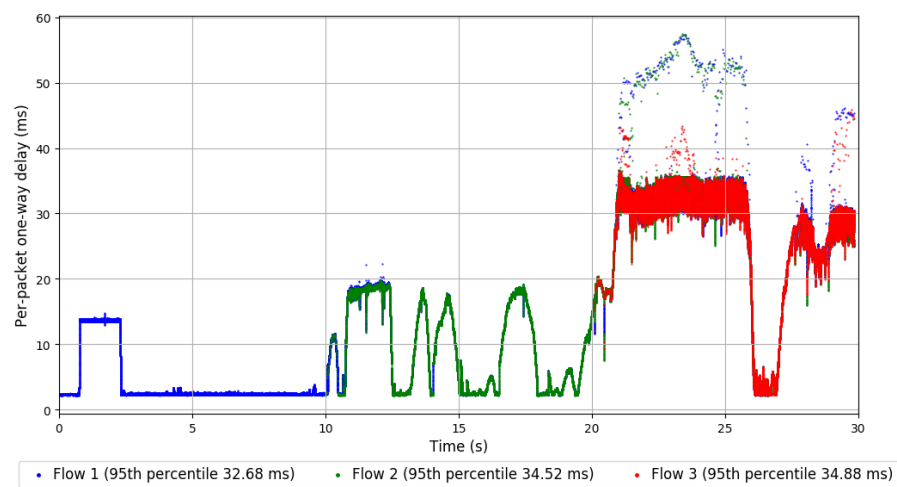
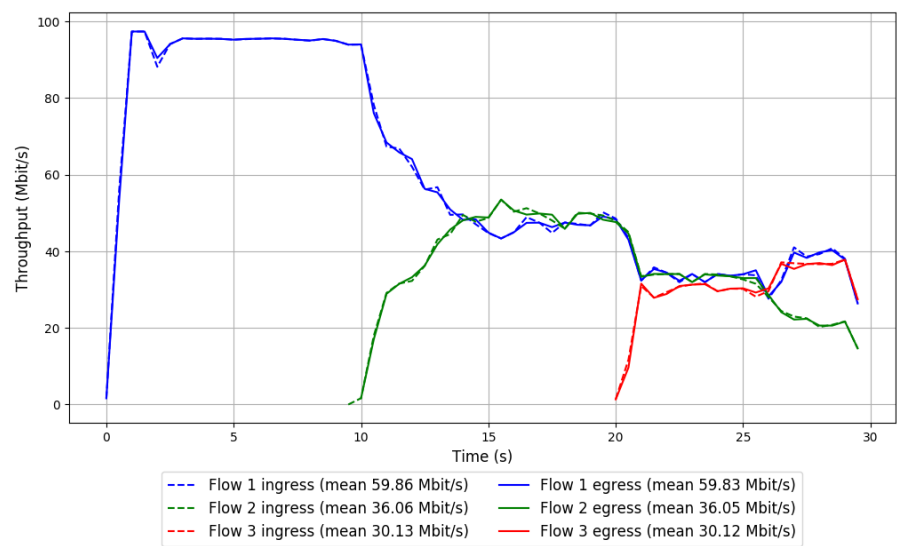


Run 3: Statistics of Vivace-LTE

Start at: 2018-02-04 18:09:47  
End at: 2018-02-04 18:10:17  
Local clock offset: 0.041 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-02-05 00:40:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.68 Mbit/s  
95th percentile per-packet one-way delay: 34.089 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.83 Mbit/s  
95th percentile per-packet one-way delay: 32.684 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 36.05 Mbit/s  
95th percentile per-packet one-way delay: 34.517 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 30.12 Mbit/s  
95th percentile per-packet one-way delay: 34.884 ms  
Loss rate: 0.36%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-04 18:30:16

End at: 2018-02-04 18:30:46

Local clock offset: 0.07 ms

Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2018-02-05 00:40:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 33.88 Mbit/s

95th percentile per-packet one-way delay: 11.093 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 5.70 Mbit/s

95th percentile per-packet one-way delay: 6.171 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 7.904 ms

Loss rate: 0.01%

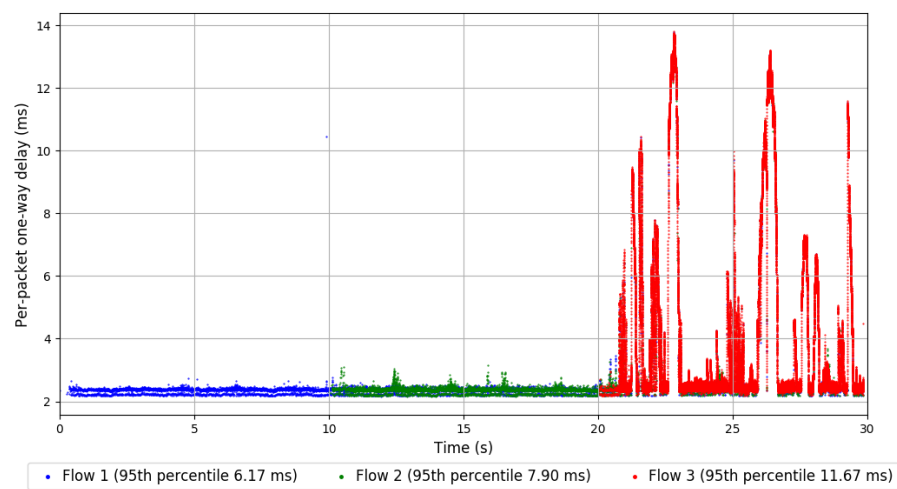
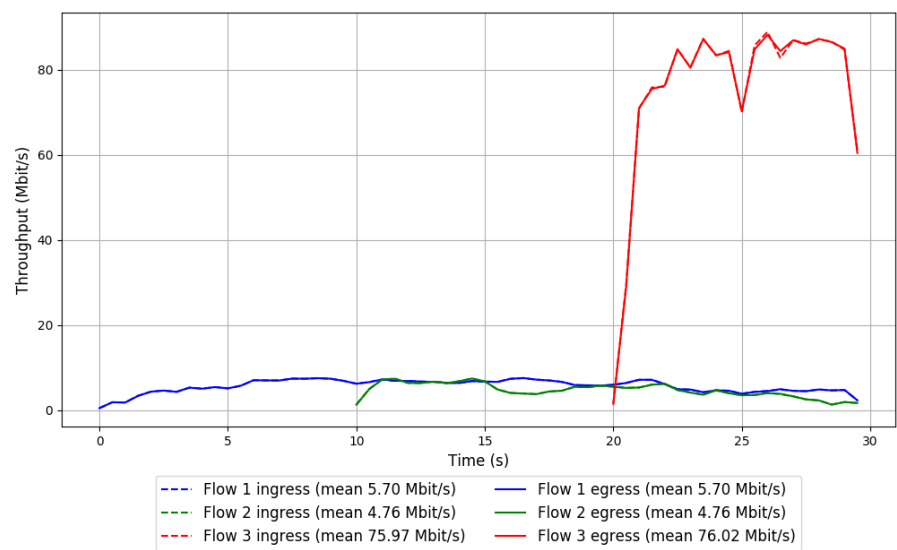
-- Flow 3:

Average throughput: 76.02 Mbit/s

95th percentile per-packet one-way delay: 11.671 ms

Loss rate: 0.06%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-04 18:50:40

End at: 2018-02-04 18:51:10

Local clock offset: 0.056 ms

Remote clock offset: 2.08 ms

# Below is generated by plot.py at 2018-02-05 00:41:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.56 Mbit/s

95th percentile per-packet one-way delay: 31.629 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 61.25 Mbit/s

95th percentile per-packet one-way delay: 30.237 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 36.90 Mbit/s

95th percentile per-packet one-way delay: 31.932 ms

Loss rate: 0.17%

-- Flow 3:

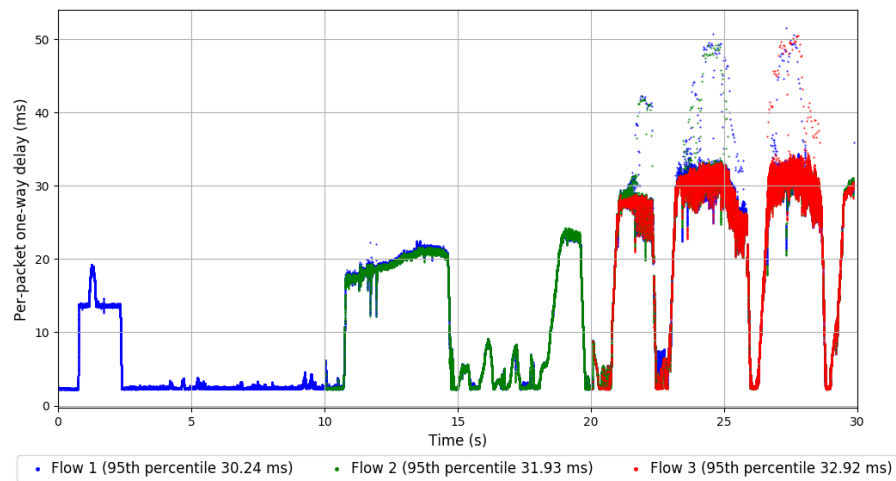
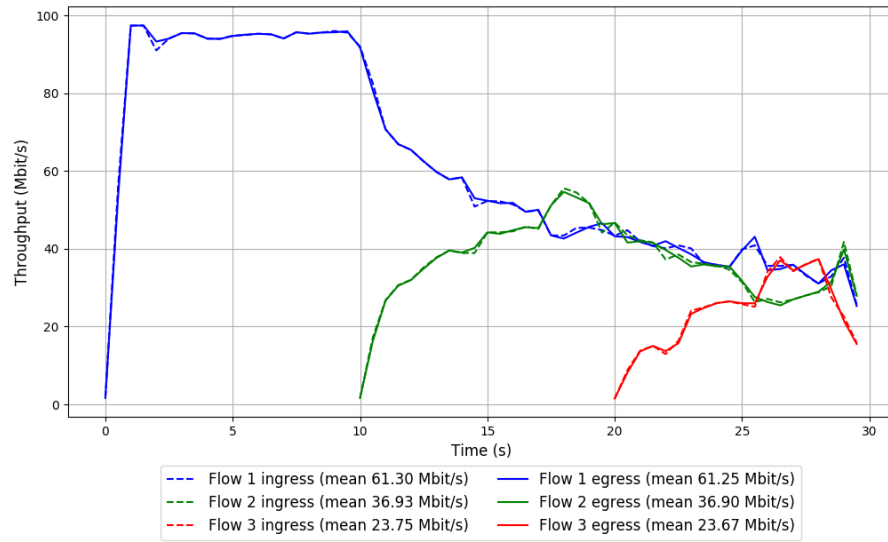
Average throughput: 23.67 Mbit/s

95th percentile per-packet one-way delay: 32.916 ms

Loss rate: 0.41%



# Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-04 19:11:04

End at: 2018-02-04 19:11:34

Local clock offset: 0.003 ms

Remote clock offset: 2.849 ms

# Below is generated by plot.py at 2018-02-05 00:41:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 31.740 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 61.53 Mbit/s

95th percentile per-packet one-way delay: 30.524 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 32.131 ms

Loss rate: 0.18%

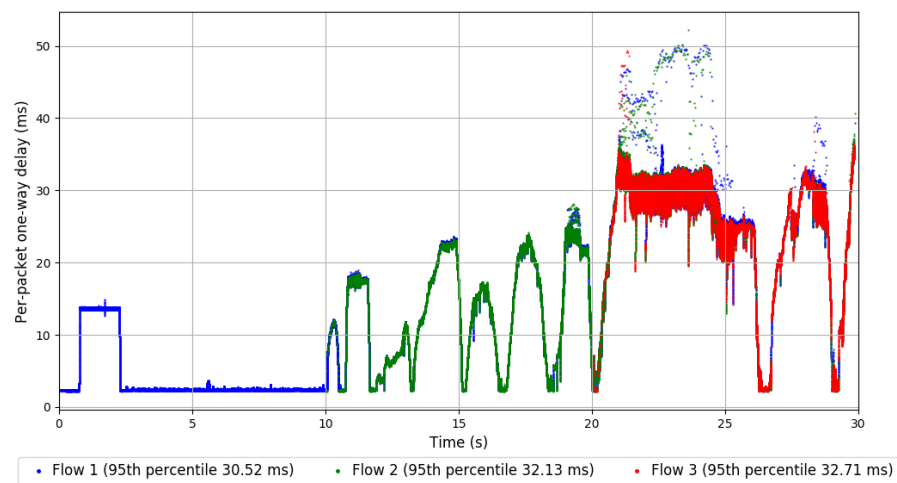
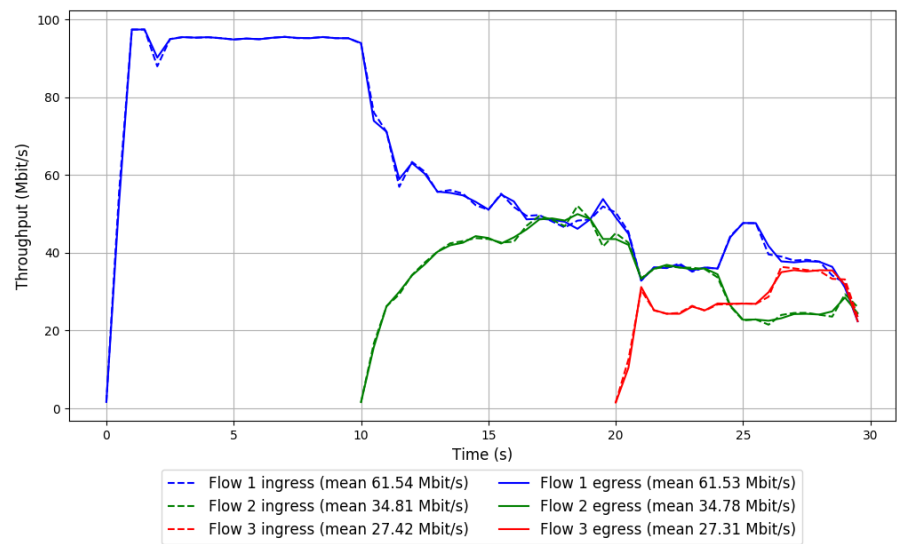
-- Flow 3:

Average throughput: 27.31 Mbit/s

95th percentile per-packet one-way delay: 32.711 ms

Loss rate: 0.45%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-04 19:31:29

End at: 2018-02-04 19:31:59

Local clock offset: -0.027 ms

Remote clock offset: 3.304 ms

# Below is generated by plot.py at 2018-02-05 00:41:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.57 Mbit/s

95th percentile per-packet one-way delay: 34.026 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 60.01 Mbit/s

95th percentile per-packet one-way delay: 32.615 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.26 Mbit/s

95th percentile per-packet one-way delay: 34.459 ms

Loss rate: 0.19%

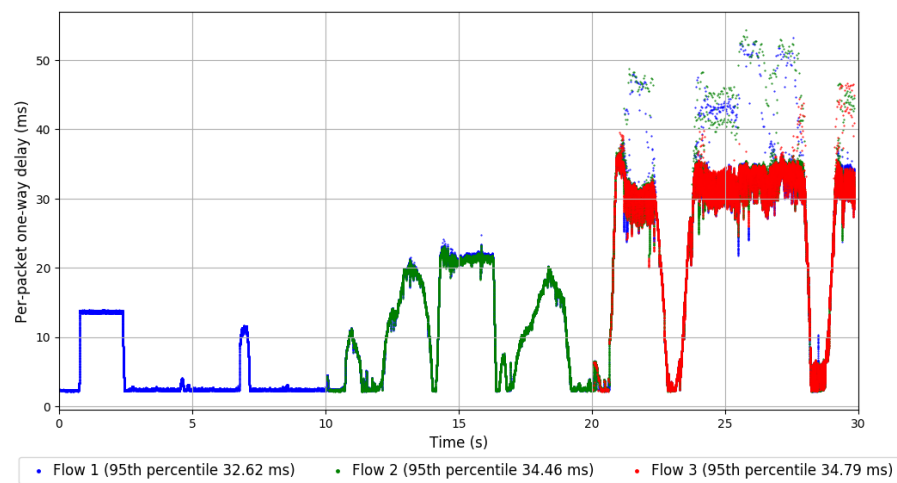
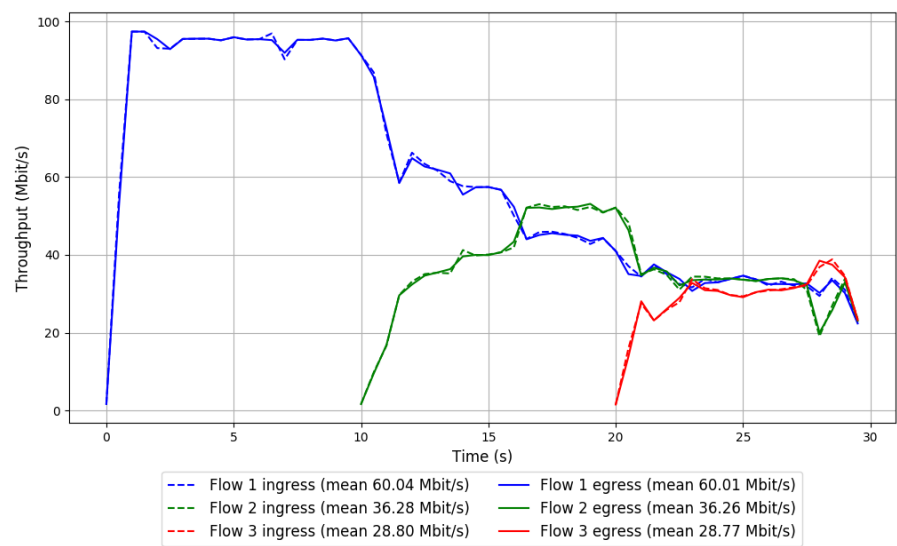
-- Flow 3:

Average throughput: 28.77 Mbit/s

95th percentile per-packet one-way delay: 34.786 ms

Loss rate: 0.38%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-04 19:51:54

End at: 2018-02-04 19:52:24

Local clock offset: 0.029 ms

Remote clock offset: 2.655 ms

# Below is generated by plot.py at 2018-02-05 00:41:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.85 Mbit/s

95th percentile per-packet one-way delay: 33.817 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 31.020 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.71 Mbit/s

95th percentile per-packet one-way delay: 34.068 ms

Loss rate: 0.14%

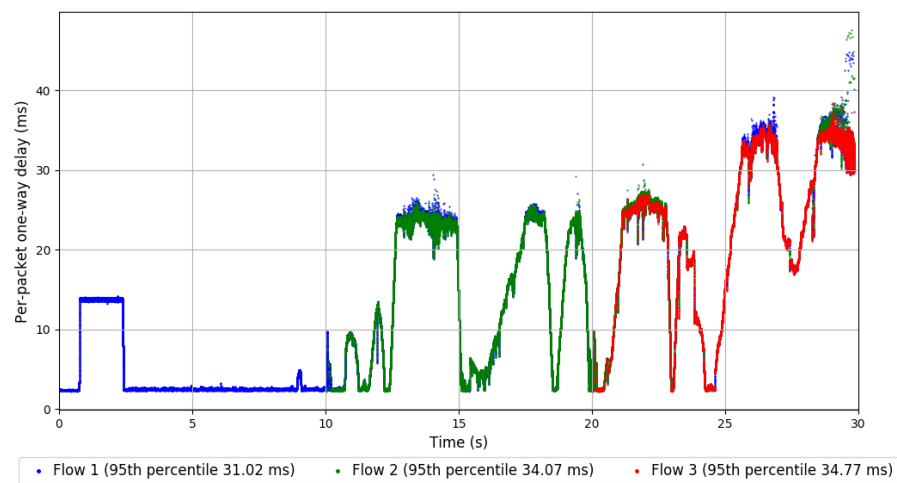
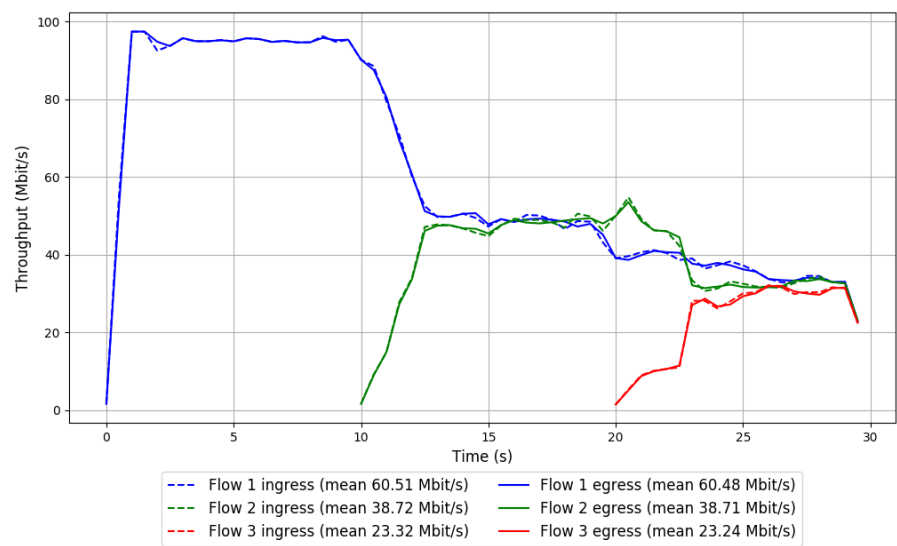
-- Flow 3:

Average throughput: 23.24 Mbit/s

95th percentile per-packet one-way delay: 34.765 ms

Loss rate: 0.47%

Run 8: Report of Vivace-LTE — Data Link



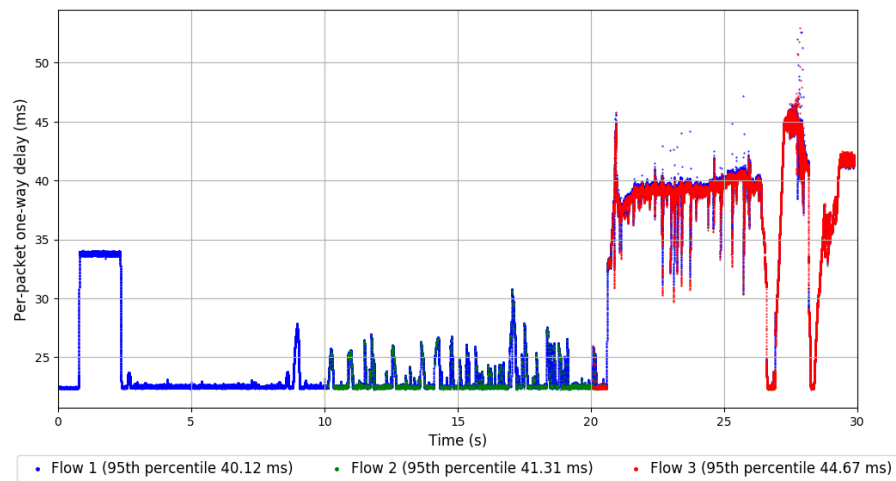
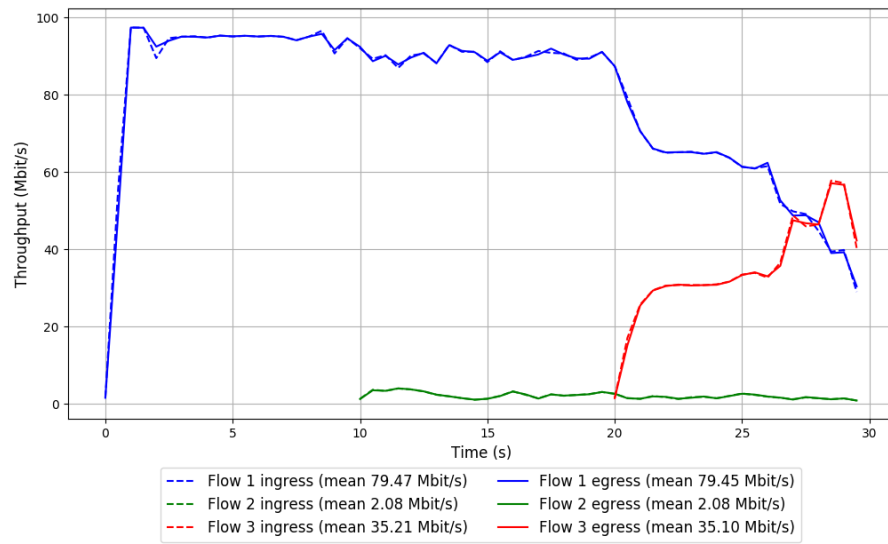
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-04 20:12:25  
End at: 2018-02-04 20:12:55  
Local clock offset: -0.049 ms  
Remote clock offset: -17.799 ms

# Below is generated by plot.py at 2018-02-05 00:41:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.38 Mbit/s  
95th percentile per-packet one-way delay: 41.395 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 79.45 Mbit/s  
95th percentile per-packet one-way delay: 40.120 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 2.08 Mbit/s  
95th percentile per-packet one-way delay: 41.314 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 35.10 Mbit/s  
95th percentile per-packet one-way delay: 44.673 ms  
Loss rate: 0.39%



### Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-04 20:32:50

End at: 2018-02-04 20:33:20

Local clock offset: -0.034 ms

Remote clock offset: 2.337 ms

# Below is generated by plot.py at 2018-02-05 00:41:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 33.286 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.91 Mbit/s

95th percentile per-packet one-way delay: 31.822 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 36.49 Mbit/s

95th percentile per-packet one-way delay: 33.941 ms

Loss rate: 0.13%

-- Flow 3:

Average throughput: 27.33 Mbit/s

95th percentile per-packet one-way delay: 35.365 ms

Loss rate: 0.39%

Run 10: Report of Vivace-LTE — Data Link

