

Pantheon Report

Generated at 2018-01-02 13:16:50 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

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

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

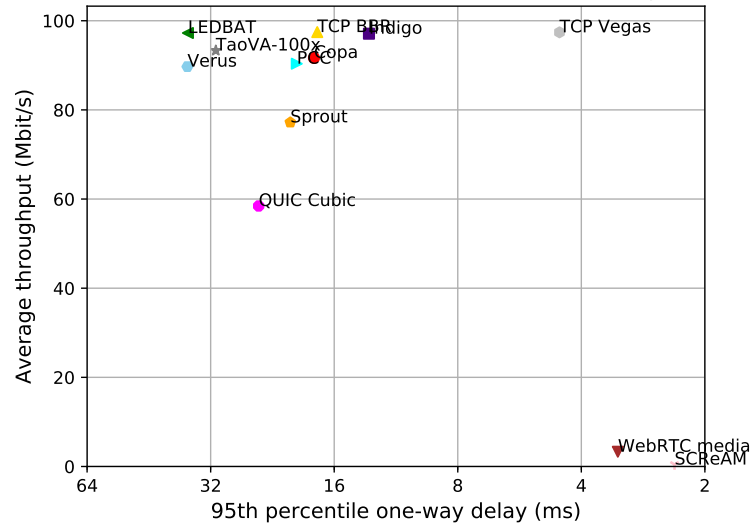
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo_fast*).

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

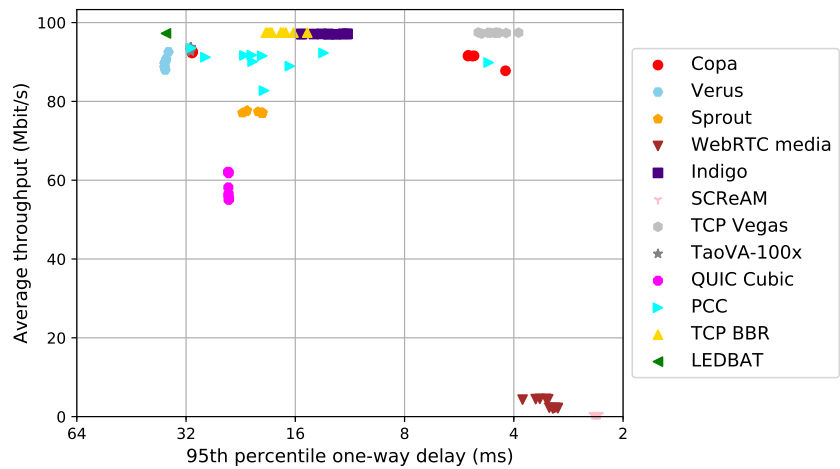
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from 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



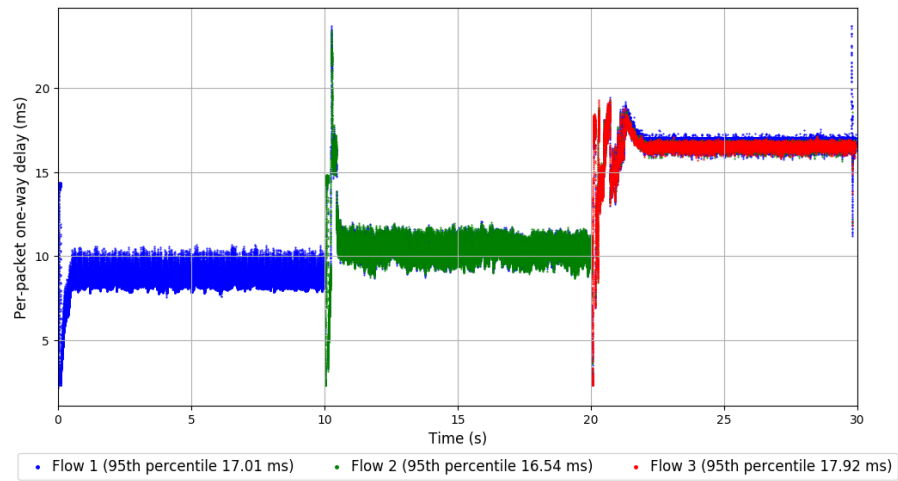
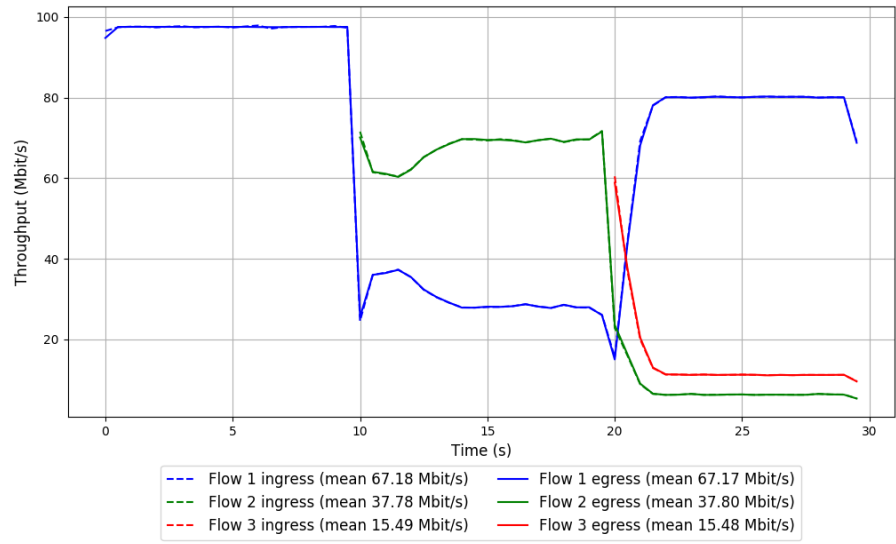
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	67.62	33.77	22.30	17.46	17.22	22.30	0.08	0.03	0.16
TCP Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEDBAT	1	61.65	41.61	30.04	36.24	36.38	36.43	0.06	0.19	0.47
PCC	10	68.66	27.48	10.39	18.22	21.51	22.79	0.03	0.10	0.17
QUIC Cubic	10	1.01	65.12	45.85	2.66	24.42	24.48	0.00	0.09	0.29
SCReAM	10	0.22	0.22	0.22	2.37	2.37	2.37	0.00	0.10	0.00
WebRTC media	10	1.22	1.51	0.63	3.87	3.15	3.44	0.03	0.00	0.13
Sprout	10	43.28	37.88	26.49	18.88	20.22	22.29	0.04	0.08	0.20
TaoVA-100x	10	58.29	40.51	31.94	30.30	31.11	31.20	0.06	0.14	0.41
TCP Vegas	10	47.49	45.41	59.50	6.76	4.41	4.51	0.01	0.02	0.06
Verus	10	52.34	40.83	30.83	35.43	36.52	36.70	0.07	0.16	0.39
Copa	10	59.75	36.63	32.06	17.15	17.98	18.52	0.04	0.09	0.24
FillP	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo	10	60.30	37.62	36.16	12.59	13.27	15.00	0.02	0.05	0.14

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 07:20:32
End at: 2018-01-02 07:21:02
Local clock offset: 0.092 ms
Remote clock offset: -0.254 ms

Below is generated by plot.py at 2018-01-02 12:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 16.999 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 67.17 Mbit/s
95th percentile per-packet one-way delay: 17.009 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 37.80 Mbit/s
95th percentile per-packet one-way delay: 16.544 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 15.48 Mbit/s
95th percentile per-packet one-way delay: 17.921 ms
Loss rate: 0.15%

Run 1: Report of TCP BBR — Data Link

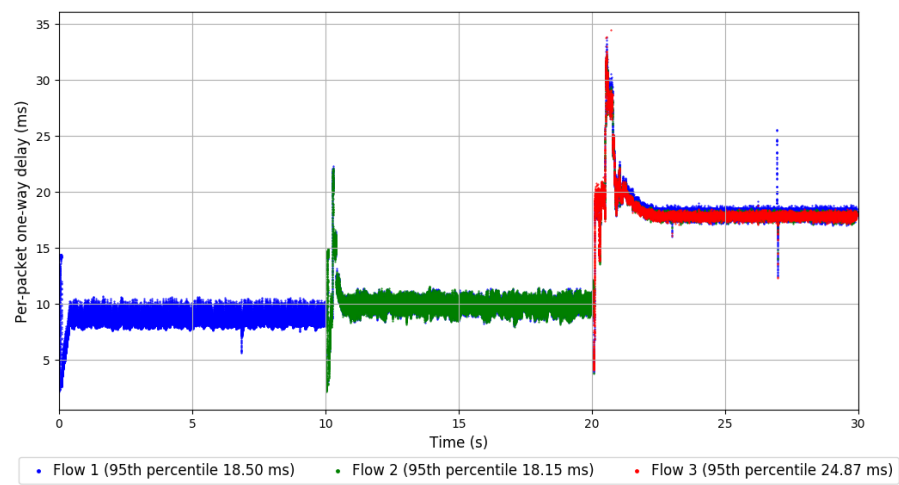
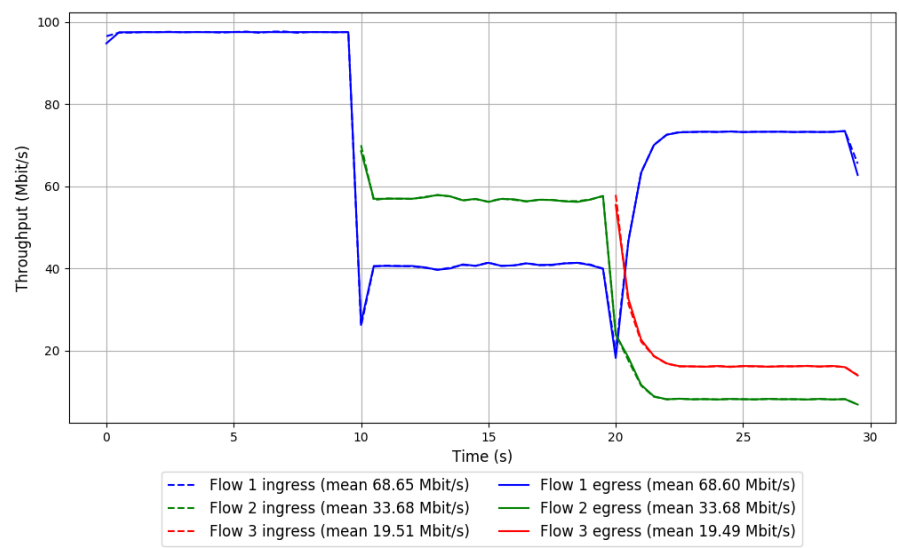


Run 2: Statistics of TCP BBR

Start at: 2018-01-02 07:37:29
End at: 2018-01-02 07:37:59
Local clock offset: 0.034 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-01-02 12:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.45 Mbit/s
95th percentile per-packet one-way delay: 18.766 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 68.60 Mbit/s
95th percentile per-packet one-way delay: 18.496 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 18.146 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 19.49 Mbit/s
95th percentile per-packet one-way delay: 24.868 ms
Loss rate: 0.17%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 07:54:26

End at: 2018-01-02 07:54:56

Local clock offset: -0.06 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2018-01-02 12:59:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 17.485 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 69.36 Mbit/s

95th percentile per-packet one-way delay: 17.484 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 34.34 Mbit/s

95th percentile per-packet one-way delay: 17.202 ms

Loss rate: 0.02%

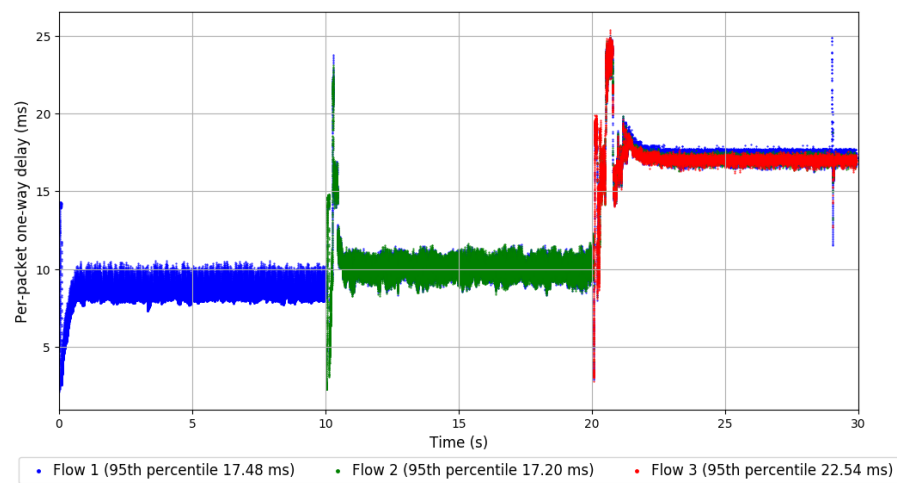
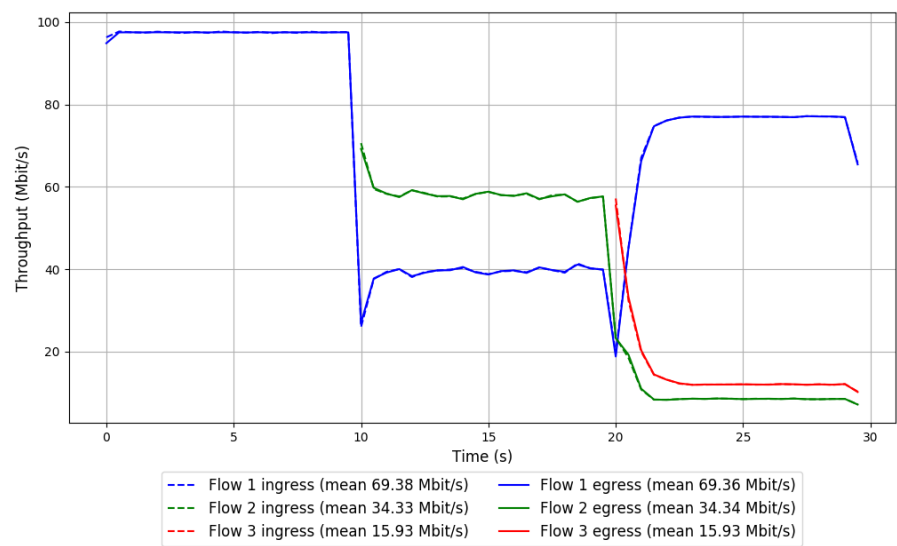
-- Flow 3:

Average throughput: 15.93 Mbit/s

95th percentile per-packet one-way delay: 22.544 ms

Loss rate: 0.15%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 08:11:23

End at: 2018-01-02 08:11:53

Local clock offset: -0.038 ms

Remote clock offset: 0.464 ms

Below is generated by plot.py at 2018-01-02 12:59:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 17.548 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 17.541 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 17.298 ms

Loss rate: 0.03%

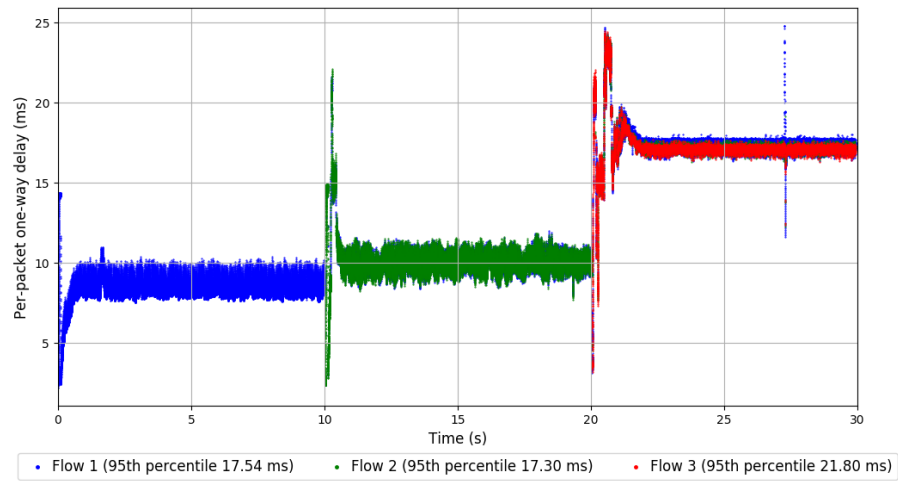
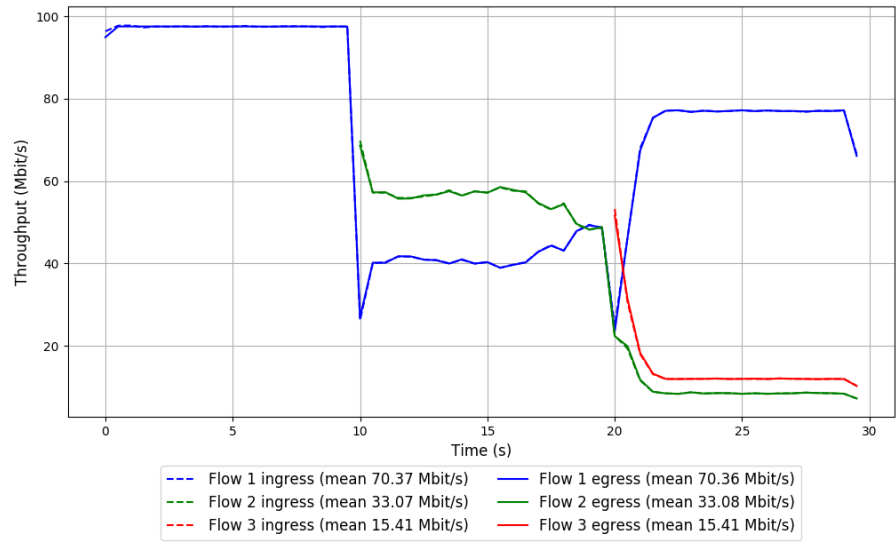
-- Flow 3:

Average throughput: 15.41 Mbit/s

95th percentile per-packet one-way delay: 21.796 ms

Loss rate: 0.16%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 08:28:20

End at: 2018-01-02 08:28:50

Local clock offset: -0.092 ms

Remote clock offset: 0.618 ms

Below is generated by plot.py at 2018-01-02 12:59:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 19.286 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 19.008 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 34.31 Mbit/s

95th percentile per-packet one-way delay: 18.627 ms

Loss rate: 0.03%

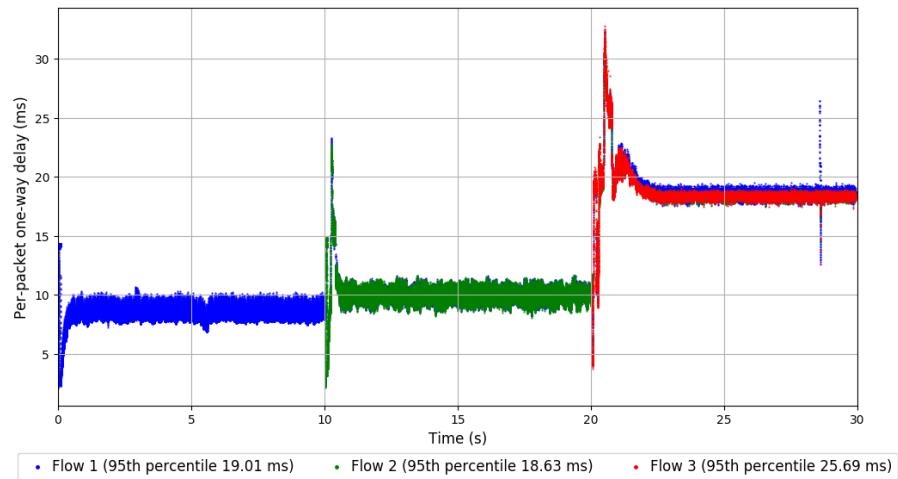
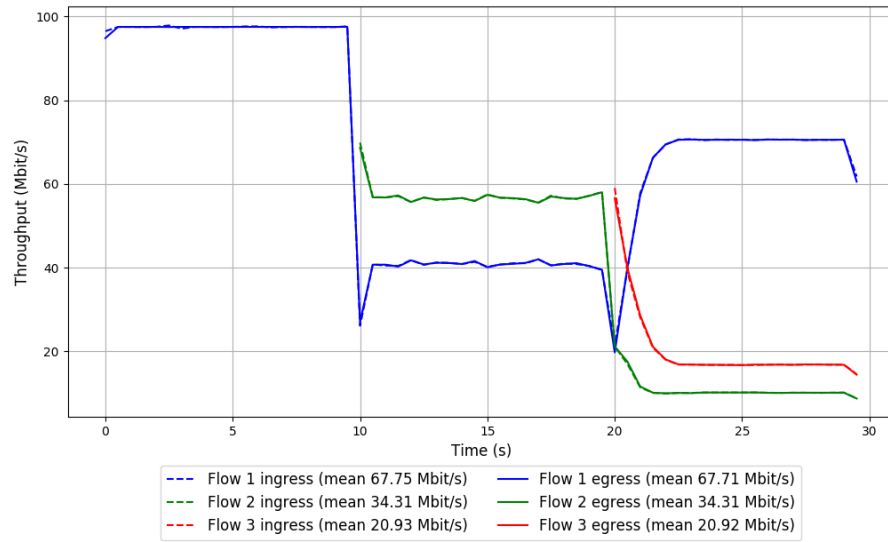
-- Flow 3:

Average throughput: 20.92 Mbit/s

95th percentile per-packet one-way delay: 25.691 ms

Loss rate: 0.17%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 08:45:17

End at: 2018-01-02 08:45:47

Local clock offset: -0.131 ms

Remote clock offset: 0.725 ms

Below is generated by plot.py at 2018-01-02 12:59:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 14.831 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 14.271 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 14.824 ms

Loss rate: 0.04%

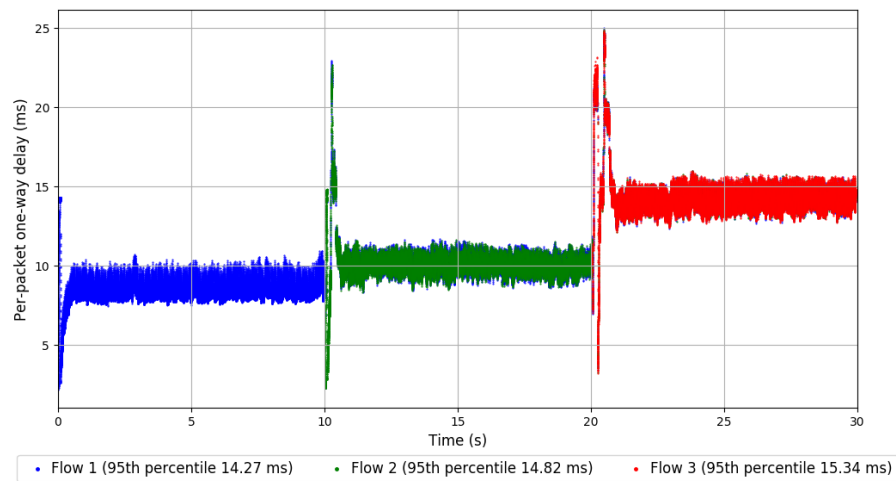
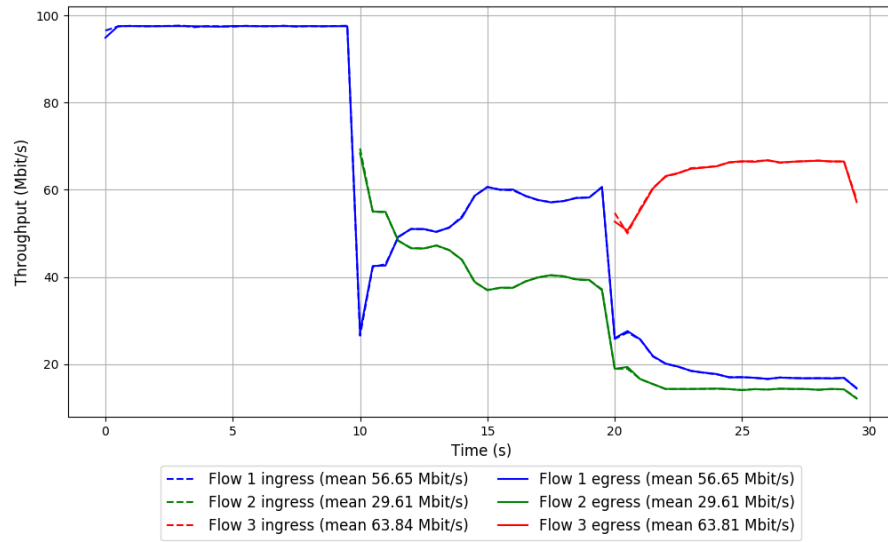
-- Flow 3:

Average throughput: 63.81 Mbit/s

95th percentile per-packet one-way delay: 15.339 ms

Loss rate: 0.19%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 09:02:15

End at: 2018-01-02 09:02:45

Local clock offset: -0.151 ms

Remote clock offset: 0.738 ms

Below is generated by plot.py at 2018-01-02 12:59:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.46 Mbit/s

95th percentile per-packet one-way delay: 17.236 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 70.28 Mbit/s

95th percentile per-packet one-way delay: 17.237 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.03 Mbit/s

95th percentile per-packet one-way delay: 16.761 ms

Loss rate: 0.02%

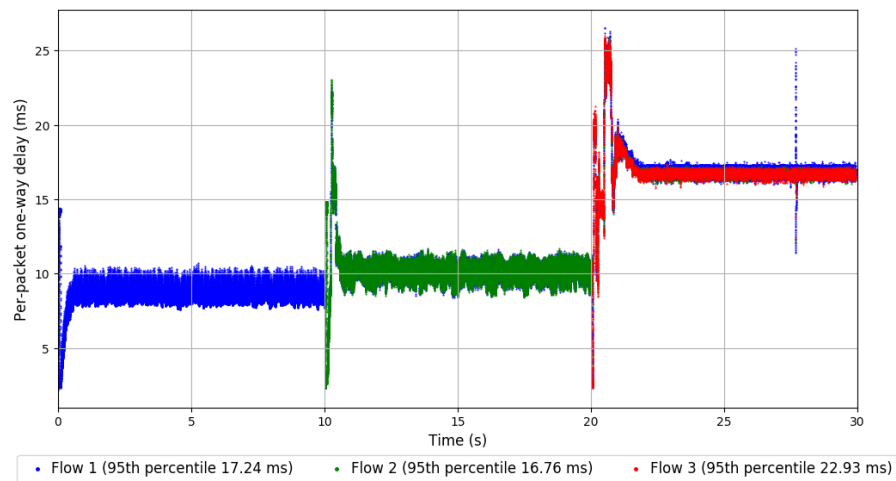
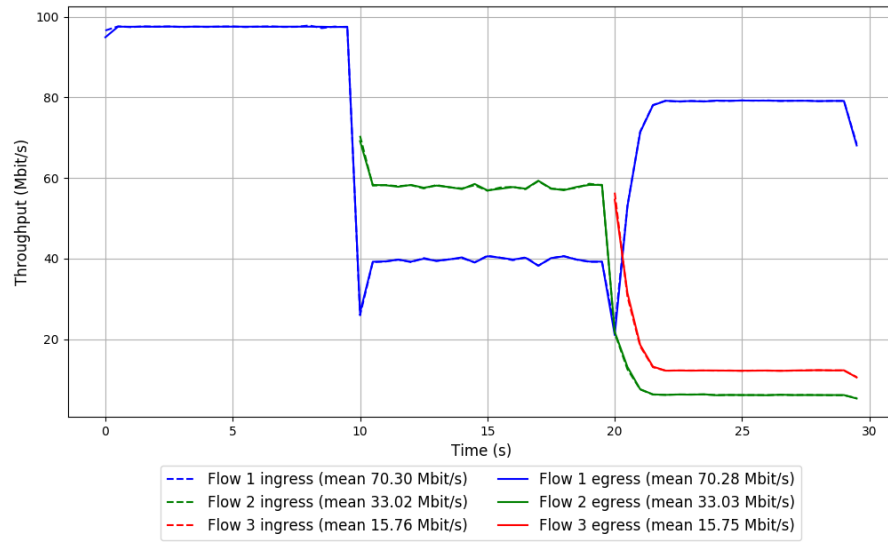
-- Flow 3:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 22.928 ms

Loss rate: 0.15%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 09:19:14

End at: 2018-01-02 09:19:44

Local clock offset: -0.195 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2018-01-02 12:59:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 19.056 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 68.83 Mbit/s

95th percentile per-packet one-way delay: 18.987 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 33.93 Mbit/s

95th percentile per-packet one-way delay: 18.544 ms

Loss rate: 0.04%

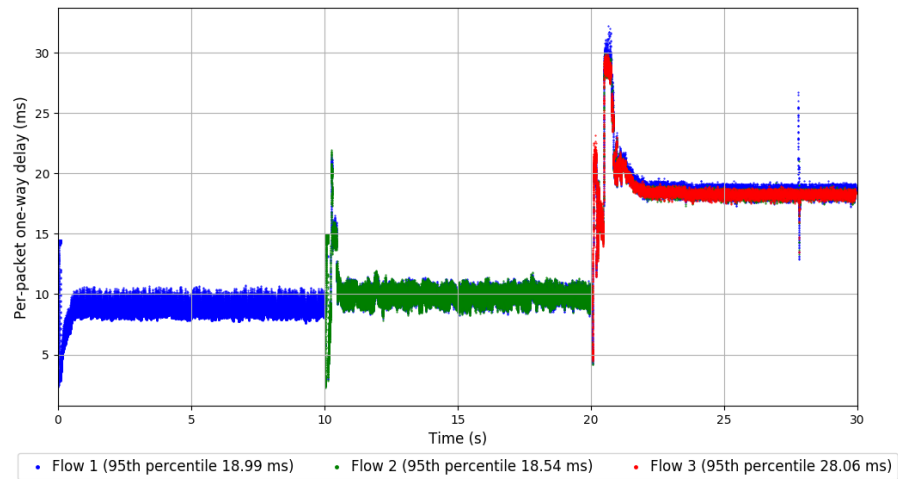
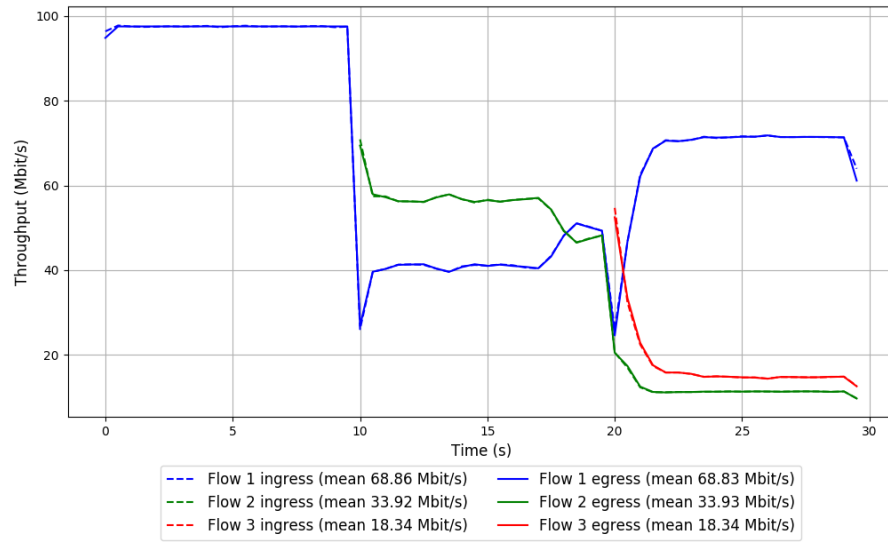
-- Flow 3:

Average throughput: 18.34 Mbit/s

95th percentile per-packet one-way delay: 28.057 ms

Loss rate: 0.17%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 09:36:11

End at: 2018-01-02 09:36:41

Local clock offset: -0.263 ms

Remote clock offset: 0.632 ms

Below is generated by plot.py at 2018-01-02 13:01:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 16.189 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 69.35 Mbit/s

95th percentile per-packet one-way delay: 16.081 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 33.20 Mbit/s

95th percentile per-packet one-way delay: 16.072 ms

Loss rate: 0.04%

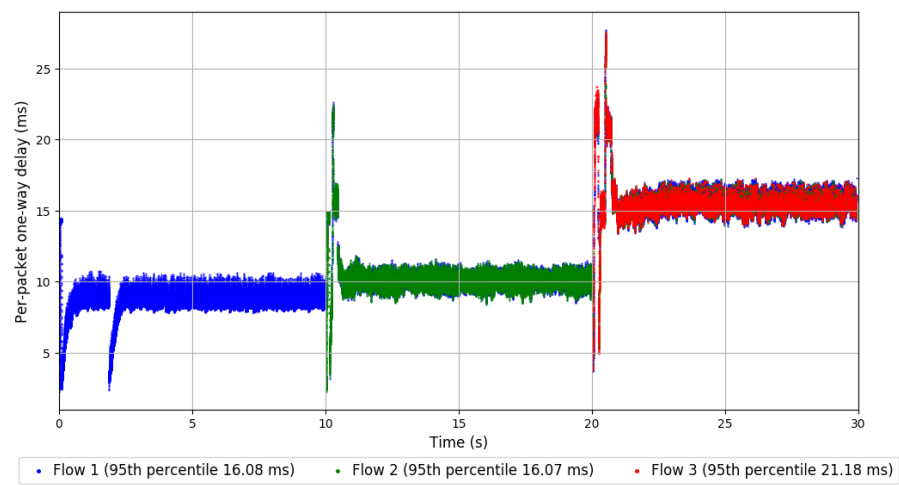
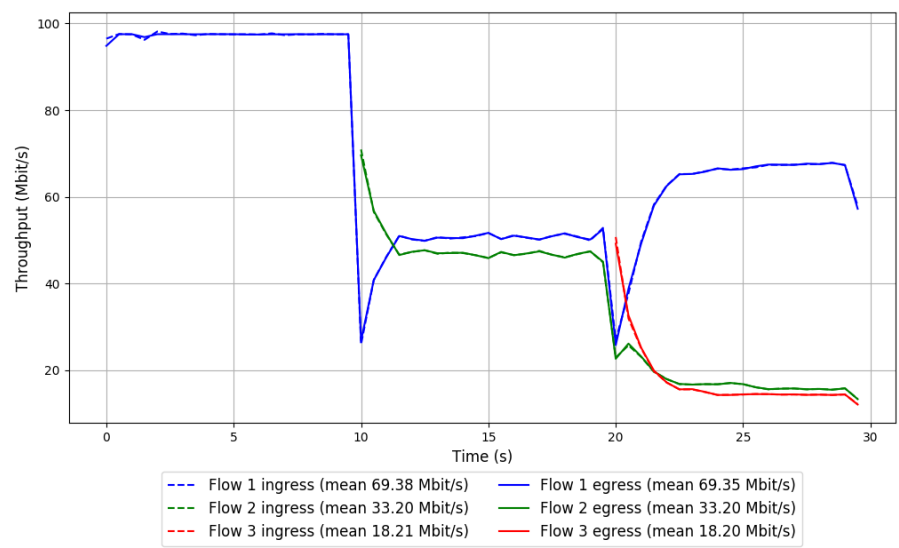
-- Flow 3:

Average throughput: 18.20 Mbit/s

95th percentile per-packet one-way delay: 21.175 ms

Loss rate: 0.15%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 09:53:08

End at: 2018-01-02 09:53:38

Local clock offset: -0.312 ms

Remote clock offset: 0.677 ms

Below is generated by plot.py at 2018-01-02 13:01:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.45 Mbit/s

95th percentile per-packet one-way delay: 18.570 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 67.90 Mbit/s

95th percentile per-packet one-way delay: 18.475 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 34.68 Mbit/s

95th percentile per-packet one-way delay: 18.169 ms

Loss rate: 0.03%

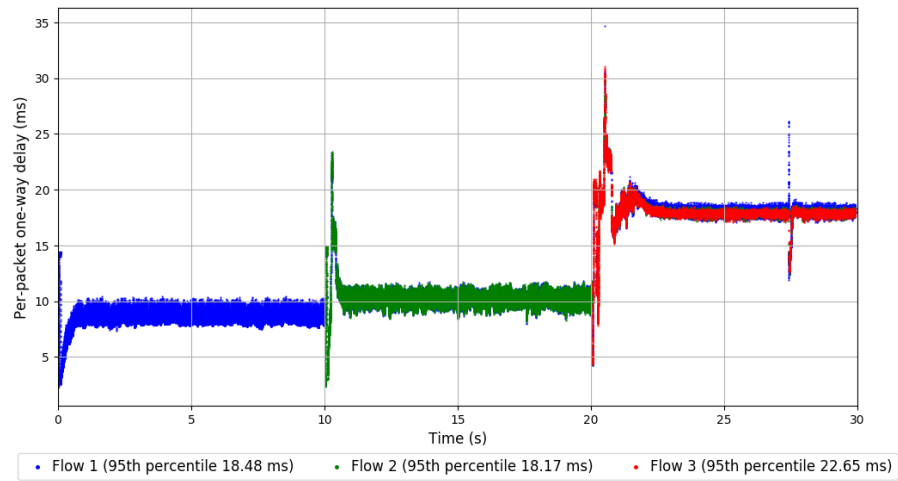
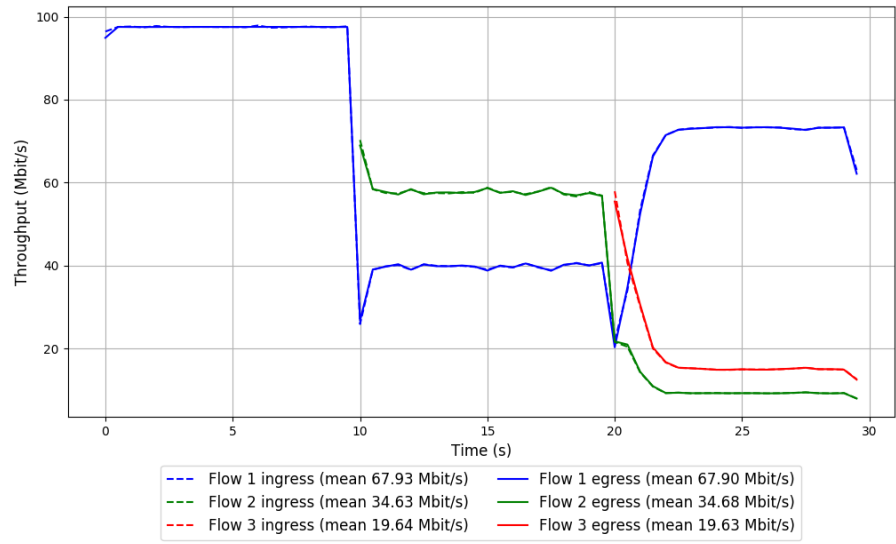
-- Flow 3:

Average throughput: 19.63 Mbit/s

95th percentile per-packet one-way delay: 22.651 ms

Loss rate: 0.16%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 07:16:05

End at: 2018-01-02 07:16:35

Local clock offset: 0.107 ms

Remote clock offset: -0.263 ms

Run 1: Report of TCP Cubic — Data Link

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Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 07:33:02

End at: 2018-01-02 07:33:32

Local clock offset: 0.069 ms

Remote clock offset: -0.147 ms

Run 2: Report of TCP Cubic — Data Link

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Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 07:49:58

End at: 2018-01-02 07:50:28

Local clock offset: 0.006 ms

Remote clock offset: 0.198 ms

Run 3: Report of TCP Cubic — Data Link

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Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 08:06:56

End at: 2018-01-02 08:07:26

Local clock offset: -0.036 ms

Remote clock offset: 0.343 ms

Run 4: Report of TCP Cubic — Data Link

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Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 08:23:53

End at: 2018-01-02 08:24:23

Local clock offset: -0.055 ms

Remote clock offset: 0.508 ms

Run 5: Report of TCP Cubic — Data Link

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Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 08:40:50

End at: 2018-01-02 08:41:20

Local clock offset: -0.172 ms

Remote clock offset: 0.688 ms

Run 6: Report of TCP Cubic — Data Link

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Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 08:57:47

End at: 2018-01-02 08:58:17

Local clock offset: -0.126 ms

Remote clock offset: 0.725 ms

Run 7: Report of TCP Cubic — Data Link

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Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 09:14:47

End at: 2018-01-02 09:15:17

Local clock offset: -0.255 ms

Remote clock offset: 0.735 ms

Run 8: Report of TCP Cubic — Data Link

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Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 09:31:44

End at: 2018-01-02 09:32:14

Local clock offset: -0.248 ms

Remote clock offset: 0.678 ms

Run 9: Report of TCP Cubic — Data Link

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Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 09:48:41

End at: 2018-01-02 09:49:11

Local clock offset: -0.372 ms

Remote clock offset: 0.732 ms

Run 10: Report of TCP Cubic — Data Link

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Run 1: Statistics of LEDBAT

Start at: 2018-01-02 07:23:52

End at: 2018-01-02 07:24:22

Local clock offset: 0.075 ms

Remote clock offset: -0.224 ms

Run 1: Report of LEDBAT — Data Link

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Run 2: Statistics of LEDBAT

Start at: 2018-01-02 07:40:49

End at: 2018-01-02 07:41:19

Local clock offset: 0.048 ms

Remote clock offset: 0.049 ms

Run 2: Report of LEDBAT — Data Link

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Run 3: Statistics of LEDBAT

Start at: 2018-01-02 07:57:46

End at: 2018-01-02 07:58:16

Local clock offset: 0.01 ms

Remote clock offset: 0.281 ms

Run 3: Report of LEDBAT — Data Link

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Run 4: Statistics of LEDBAT

Start at: 2018-01-02 08:14:43

End at: 2018-01-02 08:15:13

Local clock offset: -0.122 ms

Remote clock offset: 0.485 ms

Run 4: Report of LEDBAT — Data Link

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Run 5: Statistics of LEDBAT

Start at: 2018-01-02 08:31:40

End at: 2018-01-02 08:32:10

Local clock offset: -0.088 ms

Remote clock offset: 0.635 ms

Run 5: Report of LEDBAT — Data Link

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Run 6: Statistics of LEDBAT

Start at: 2018-01-02 08:48:37

End at: 2018-01-02 08:49:07

Local clock offset: -0.101 ms

Remote clock offset: 0.661 ms

Run 6: Report of LEDBAT — Data Link

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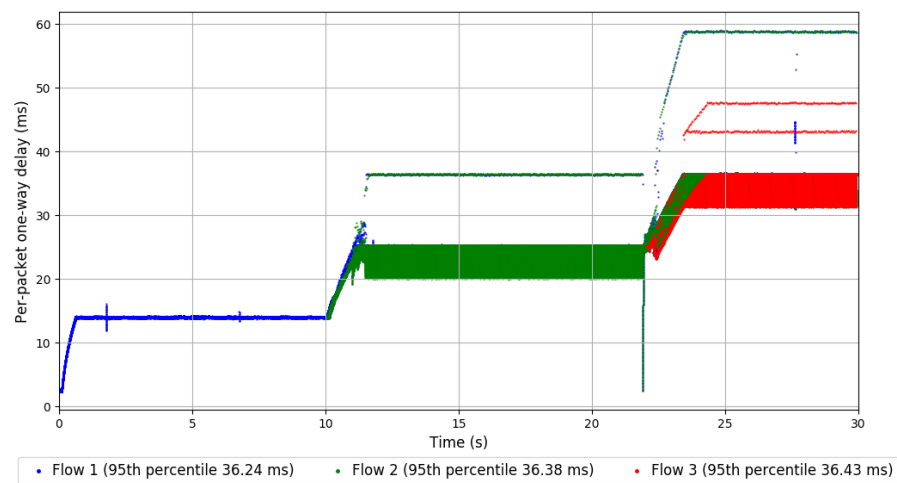
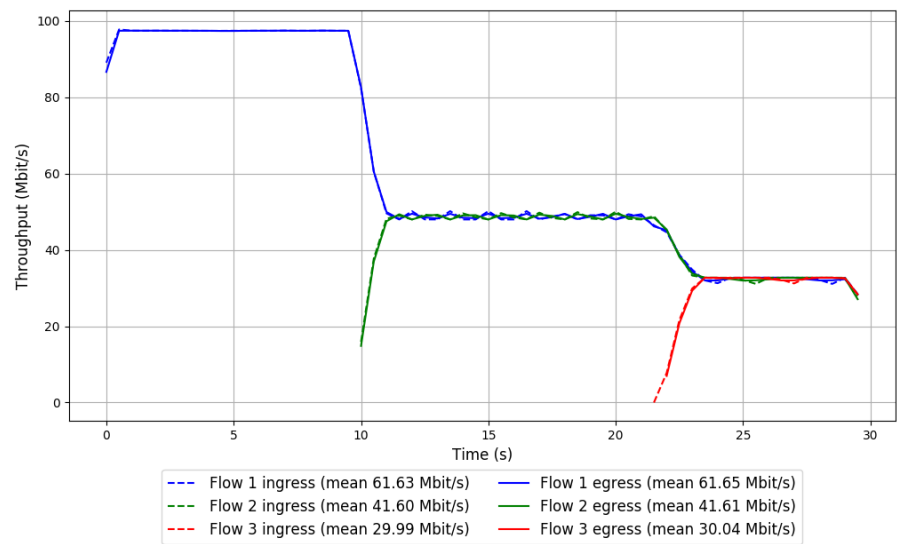
Figure is missing

Run 7: Statistics of LEDBAT

Start at: 2018-01-02 09:05:35
End at: 2018-01-02 09:06:05
Local clock offset: -0.164 ms
Remote clock offset: 0.713 ms

```
# Below is generated by plot.py at 2018-01-02 13:01:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.25 Mbit/s
95th percentile per-packet one-way delay: 36.356 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 61.65 Mbit/s
95th percentile per-packet one-way delay: 36.237 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 41.61 Mbit/s
95th percentile per-packet one-way delay: 36.383 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 36.428 ms
Loss rate: 0.47%
```

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 09:22:34

End at: 2018-01-02 09:23:04

Local clock offset: -0.217 ms

Remote clock offset: 0.696 ms

Run 8: Report of LEDBAT — Data Link

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Run 9: Statistics of LEDBAT

Start at: 2018-01-02 09:39:31

End at: 2018-01-02 09:40:01

Local clock offset: -0.331 ms

Remote clock offset: 0.693 ms

Run 9: Report of LEDBAT — Data Link

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Run 10: Statistics of LEDBAT

Start at: 2018-01-02 09:56:28

End at: 2018-01-02 09:56:58

Local clock offset: -0.341 ms

Remote clock offset: 0.746 ms

Run 10: Report of LEDBAT — Data Link

Figure is missing

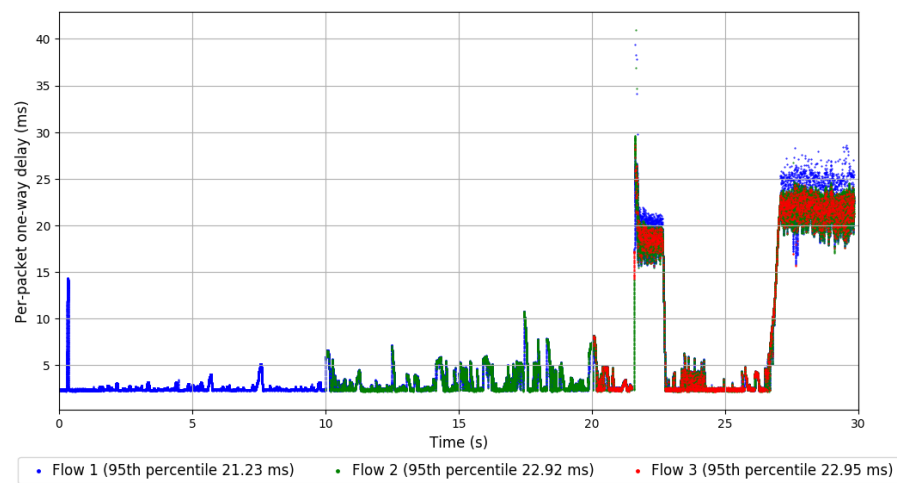
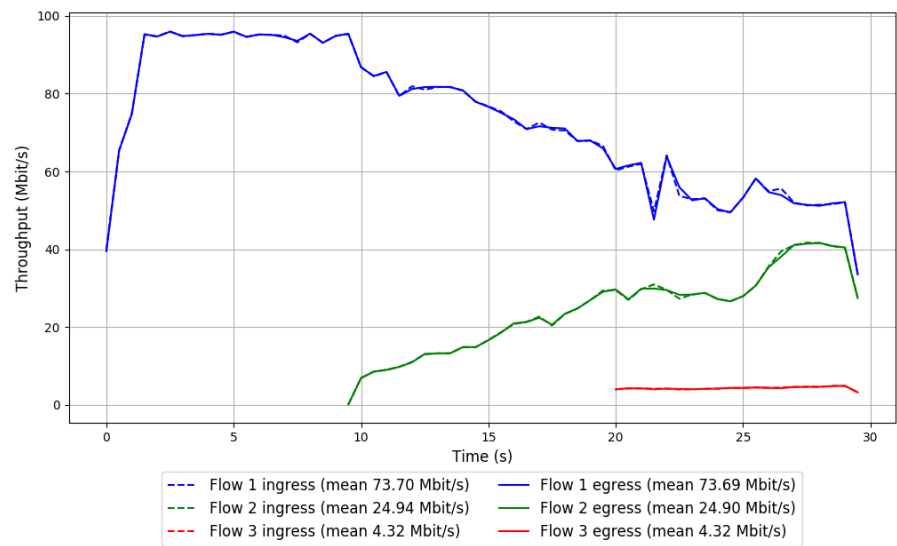
Figure is missing

Run 1: Statistics of PCC

Start at: 2018-01-02 07:22:45
End at: 2018-01-02 07:23:15
Local clock offset: 0.113 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-01-02 13:01:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 22.100 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 21.232 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 22.916 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 22.945 ms
Loss rate: 0.26%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-02 07:39:42

End at: 2018-01-02 07:40:12

Local clock offset: 0.069 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-01-02 13:01:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 82.74 Mbit/s

95th percentile per-packet one-way delay: 19.515 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 65.36 Mbit/s

95th percentile per-packet one-way delay: 18.968 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 20.202 ms

Loss rate: 0.07%

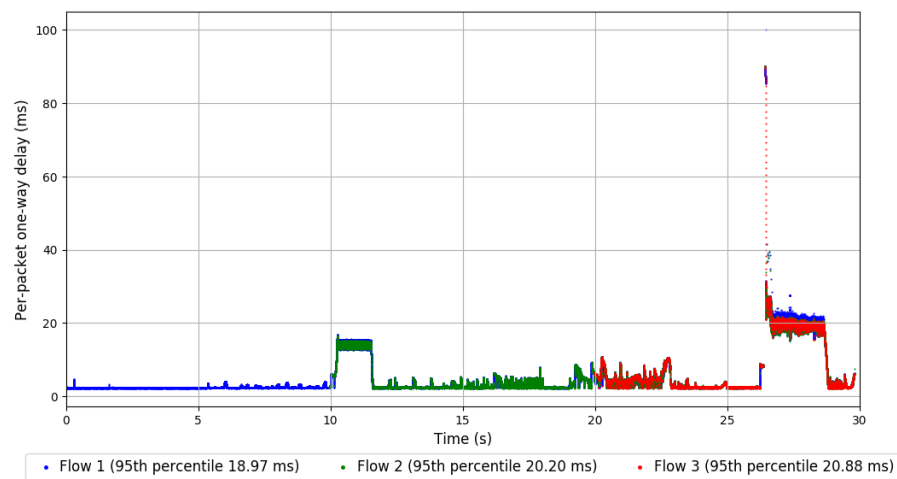
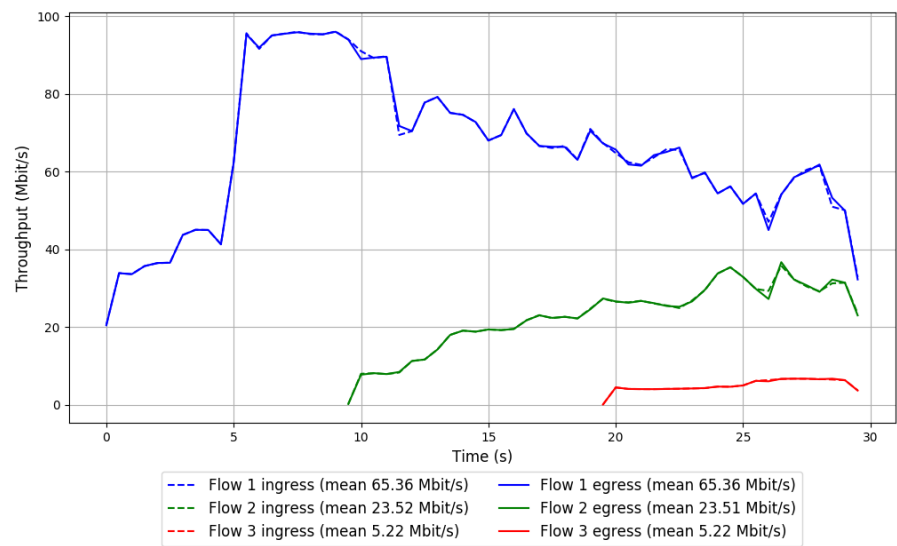
-- Flow 3:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 20.881 ms

Loss rate: 0.08%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 07:56:39

End at: 2018-01-02 07:57:09

Local clock offset: -0.006 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-01-02 13:01:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.08 Mbit/s

95th percentile per-packet one-way delay: 20.973 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 66.85 Mbit/s

95th percentile per-packet one-way delay: 19.910 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 33.05 Mbit/s

95th percentile per-packet one-way delay: 21.775 ms

Loss rate: 0.21%

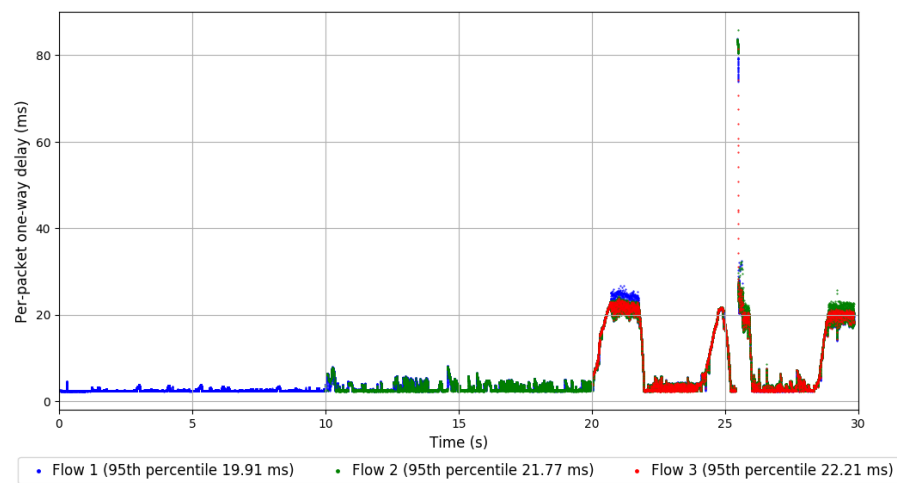
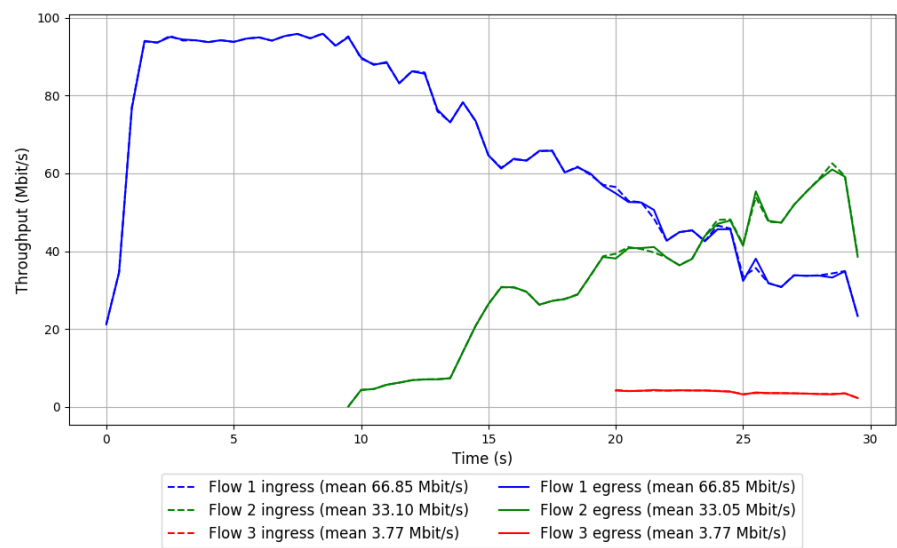
-- Flow 3:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 22.206 ms

Loss rate: 0.20%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 08:13:36

End at: 2018-01-02 08:14:06

Local clock offset: -0.056 ms

Remote clock offset: 0.437 ms

Below is generated by plot.py at 2018-01-02 13:01:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.21 Mbit/s

95th percentile per-packet one-way delay: 28.298 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 26.837 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 35.58 Mbit/s

95th percentile per-packet one-way delay: 28.922 ms

Loss rate: 0.15%

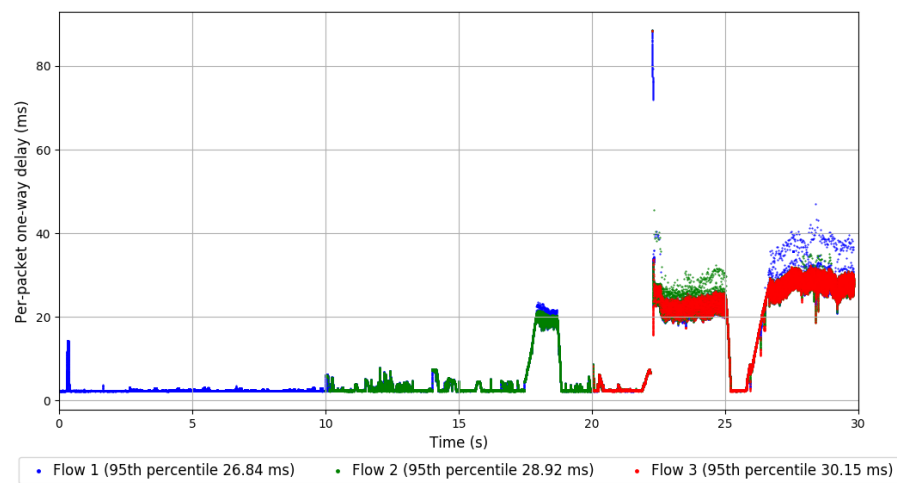
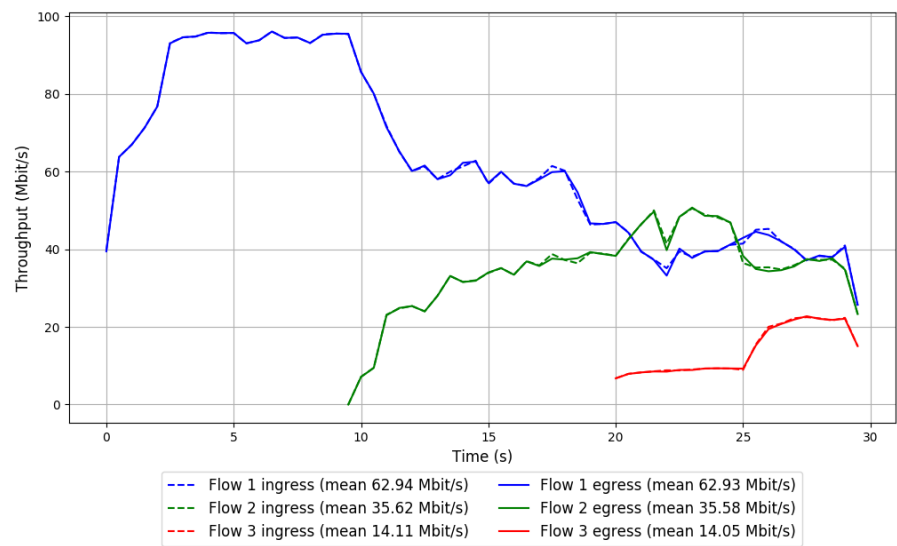
-- Flow 3:

Average throughput: 14.05 Mbit/s

95th percentile per-packet one-way delay: 30.154 ms

Loss rate: 0.48%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 08:30:33

End at: 2018-01-02 08:31:03

Local clock offset: -0.096 ms

Remote clock offset: 0.628 ms

Below is generated by plot.py at 2018-01-02 13:01:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.96 Mbit/s

95th percentile per-packet one-way delay: 16.569 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 70.41 Mbit/s

95th percentile per-packet one-way delay: 13.016 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 18.25 Mbit/s

95th percentile per-packet one-way delay: 25.410 ms

Loss rate: 0.05%

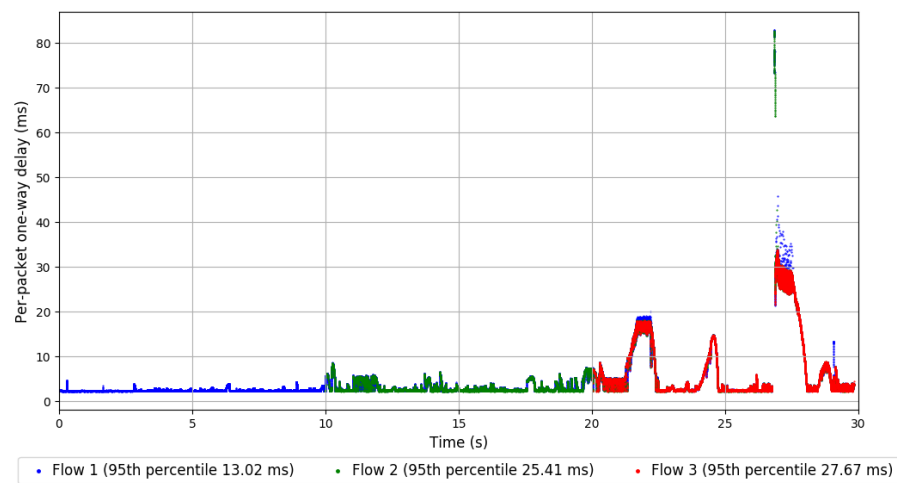
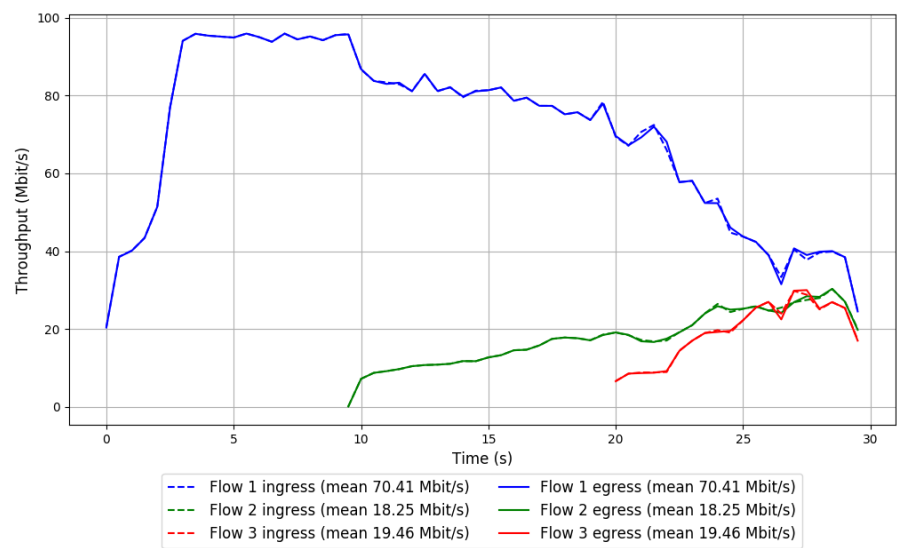
-- Flow 3:

Average throughput: 19.46 Mbit/s

95th percentile per-packet one-way delay: 27.666 ms

Loss rate: 0.08%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 08:47:30

End at: 2018-01-02 08:48:00

Local clock offset: -0.129 ms

Remote clock offset: 0.725 ms

Below is generated by plot.py at 2018-01-02 13:02:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 21.095 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 70.49 Mbit/s

95th percentile per-packet one-way delay: 20.527 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 30.82 Mbit/s

95th percentile per-packet one-way delay: 21.769 ms

Loss rate: 0.03%

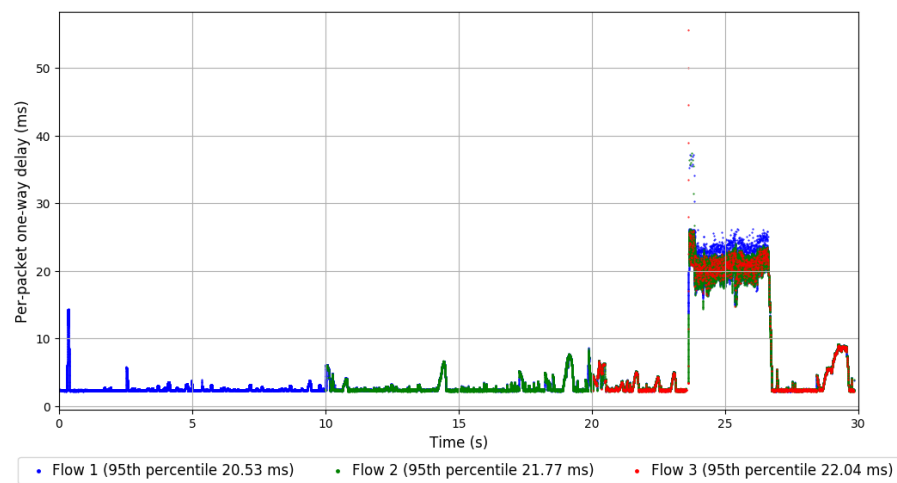
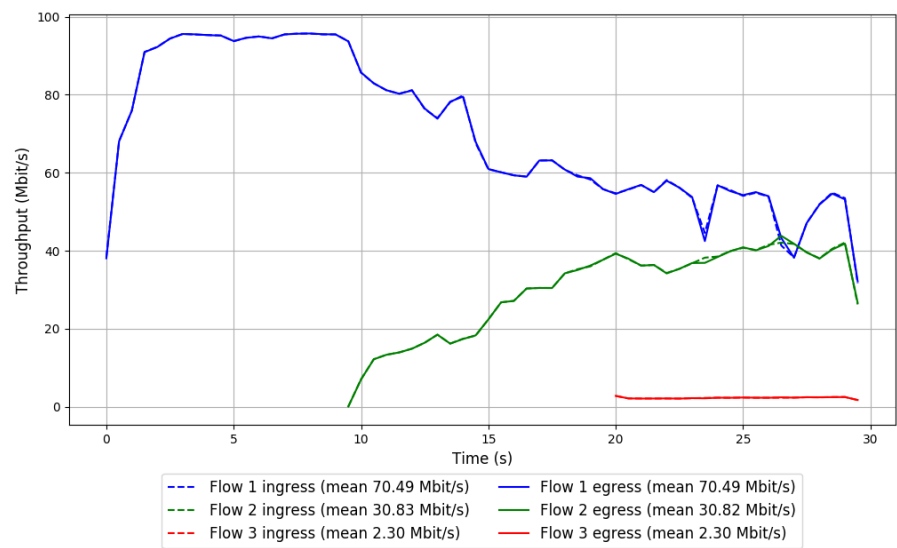
-- Flow 3:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 22.038 ms

Loss rate: 0.05%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 09:04:28

End at: 2018-01-02 09:04:58

Local clock offset: -0.176 ms

Remote clock offset: 0.664 ms

Below is generated by plot.py at 2018-01-02 13:02:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.56 Mbit/s

95th percentile per-packet one-way delay: 19.734 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 67.12 Mbit/s

95th percentile per-packet one-way delay: 15.364 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 21.300 ms

Loss rate: 0.05%

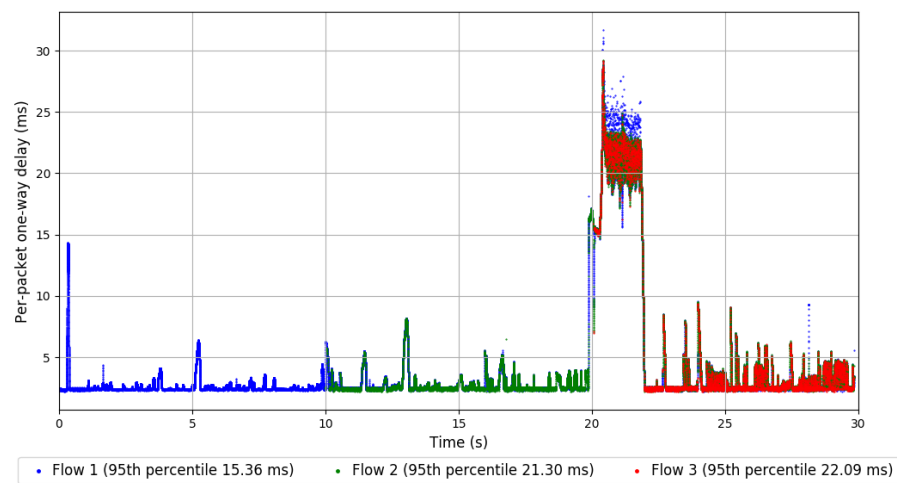
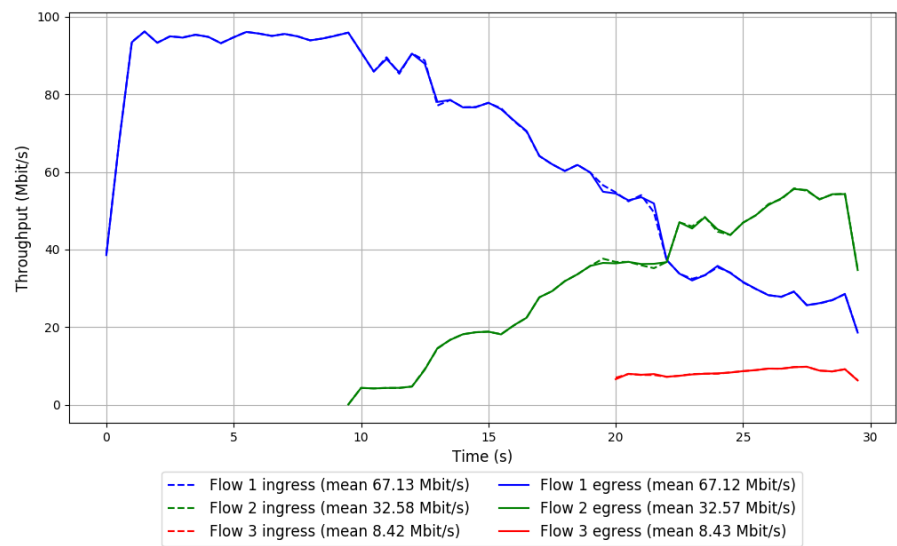
-- Flow 3:

Average throughput: 8.43 Mbit/s

95th percentile per-packet one-way delay: 22.085 ms

Loss rate: 0.06%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 09:21:27

End at: 2018-01-02 09:21:57

Local clock offset: -0.221 ms

Remote clock offset: 0.625 ms

Below is generated by plot.py at 2018-01-02 13:02:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 13.375 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 66.74 Mbit/s

95th percentile per-packet one-way delay: 11.810 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 36.85 Mbit/s

95th percentile per-packet one-way delay: 16.209 ms

Loss rate: 0.02%

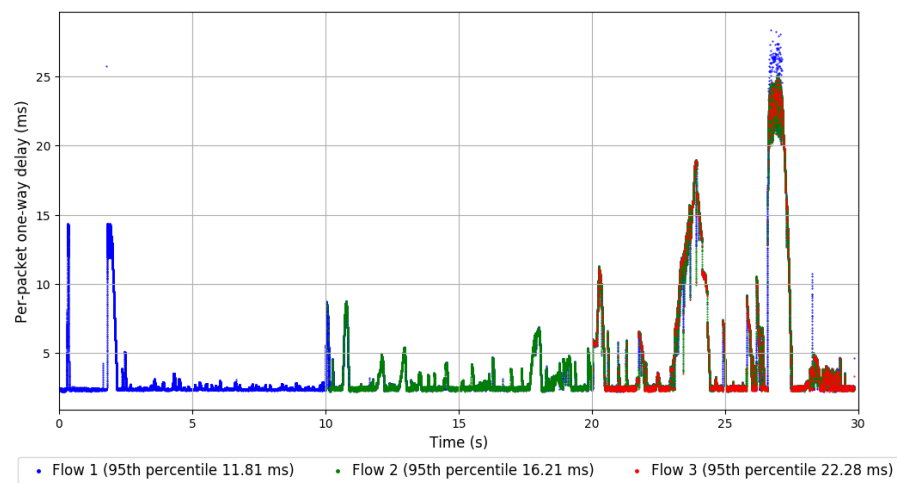
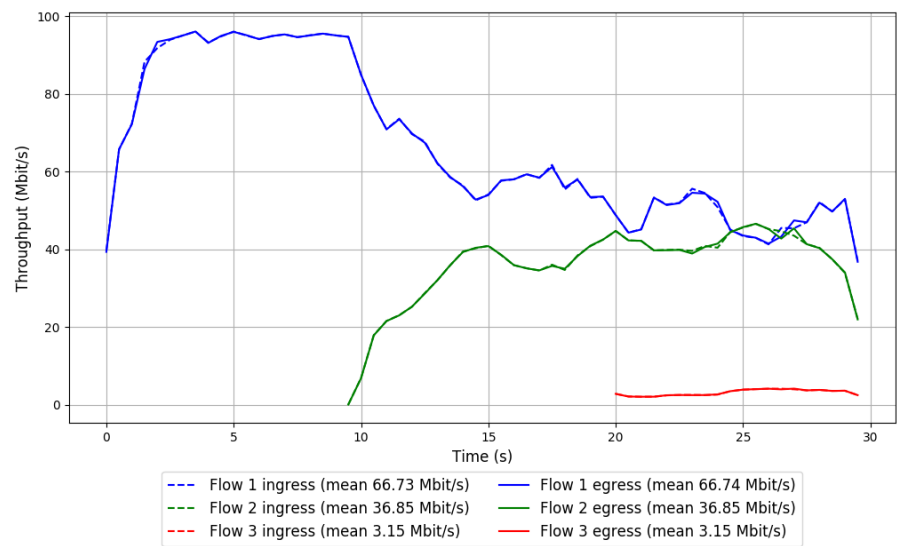
-- Flow 3:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 22.282 ms

Loss rate: 0.04%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 09:38:24

End at: 2018-01-02 09:38:54

Local clock offset: -0.348 ms

Remote clock offset: 0.709 ms

Below is generated by plot.py at 2018-01-02 13:02:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.85 Mbit/s

95th percentile per-packet one-way delay: 4.692 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 78.26 Mbit/s

95th percentile per-packet one-way delay: 4.650 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 5.029 ms

Loss rate: 0.03%

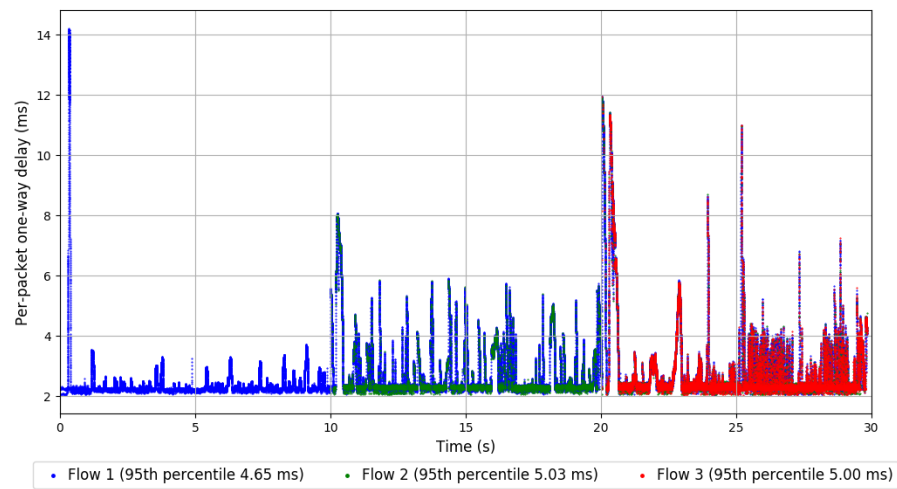
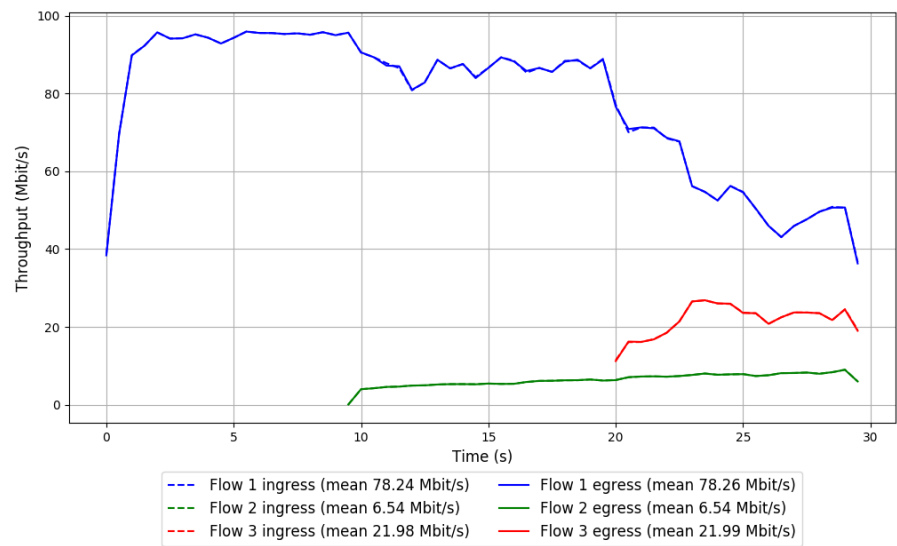
-- Flow 3:

Average throughput: 21.99 Mbit/s

95th percentile per-packet one-way delay: 4.997 ms

Loss rate: 0.09%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-02 09:55:21

End at: 2018-01-02 09:55:51

Local clock offset: -0.302 ms

Remote clock offset: 0.753 ms

Below is generated by plot.py at 2018-01-02 13:02:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.51 Mbit/s

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

Loss rate: 0.11%

-- Flow 1:

Average throughput: 64.76 Mbit/s

95th percentile per-packet one-way delay: 29.847 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 32.74 Mbit/s

95th percentile per-packet one-way delay: 31.531 ms

Loss rate: 0.17%

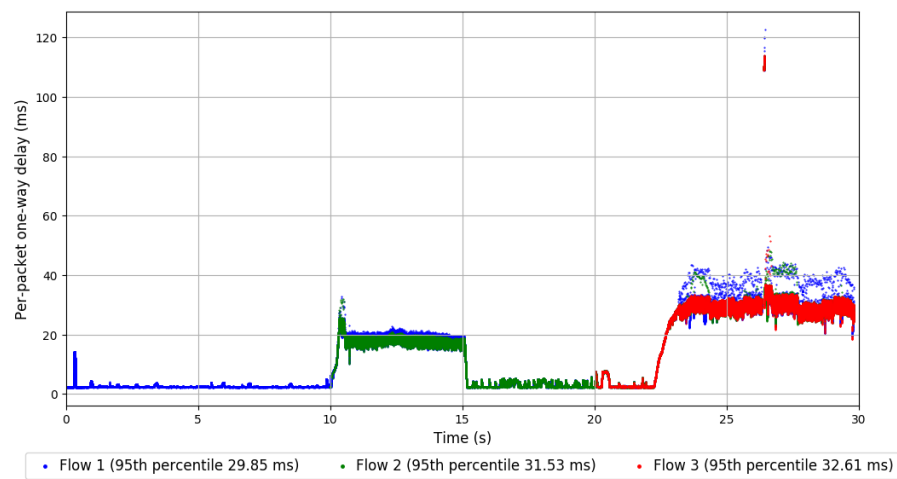
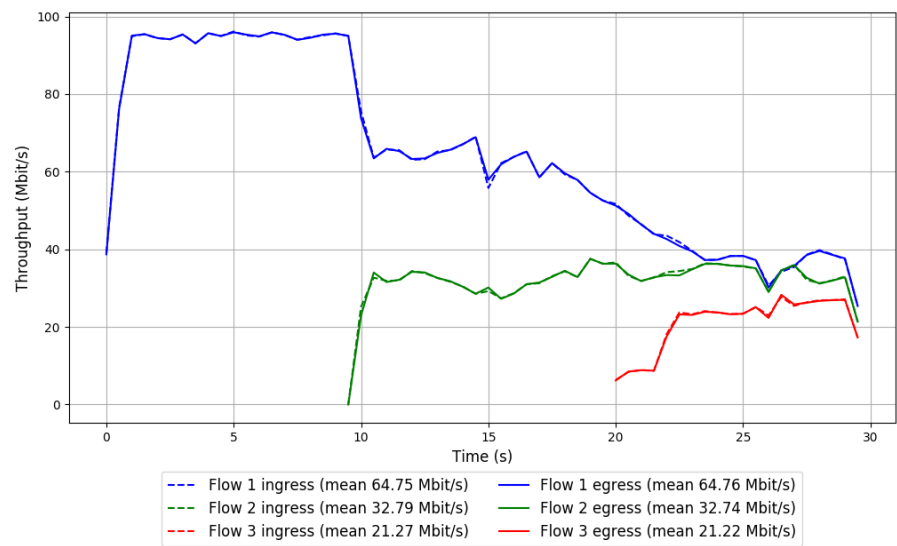
-- Flow 3:

Average throughput: 21.22 Mbit/s

95th percentile per-packet one-way delay: 32.614 ms

Loss rate: 0.39%

Run 10: Report of PCC — Data Link

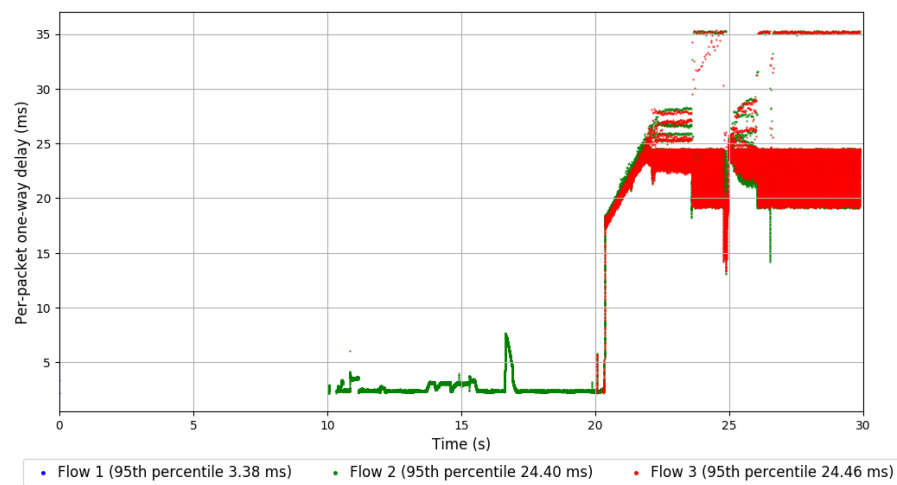
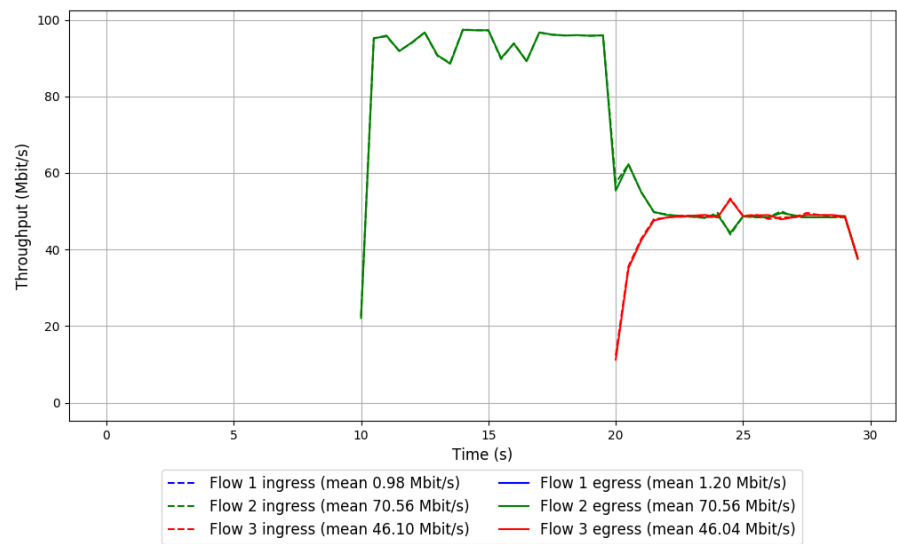


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 07:18:18
End at: 2018-01-02 07:18:48
Local clock offset: 0.102 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2018-01-02 13:02:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.09 Mbit/s
95th percentile per-packet one-way delay: 24.431 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 3.375 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.56 Mbit/s
95th percentile per-packet one-way delay: 24.404 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 24.463 ms
Loss rate: 0.25%

Run 1: Report of QUIC Cubic — Data Link

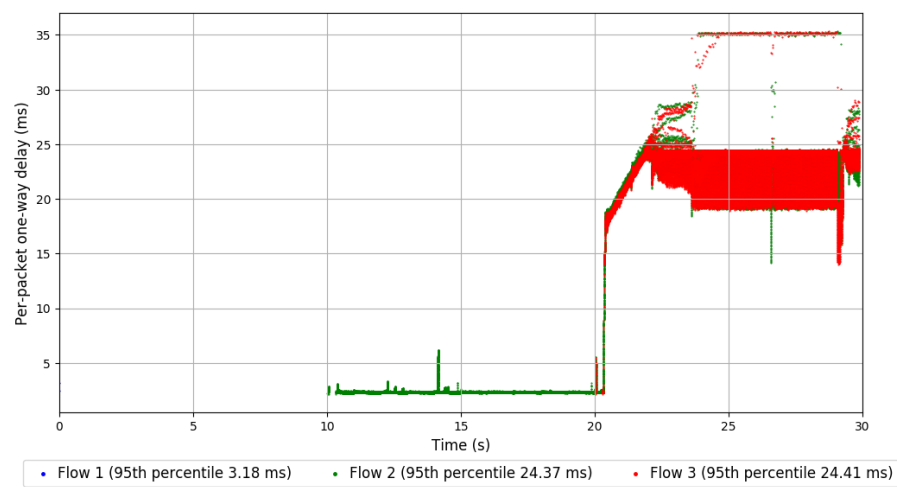
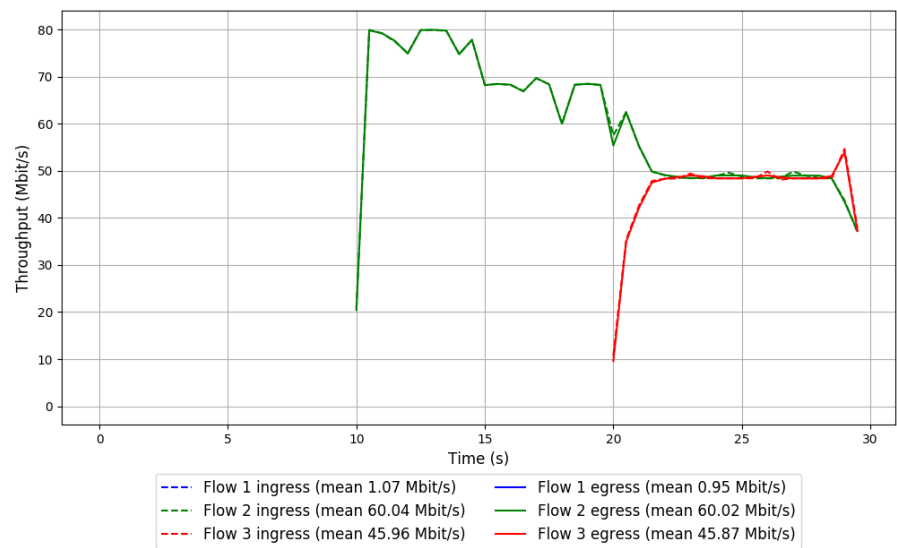


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 07:35:16
End at: 2018-01-02 07:35:46
Local clock offset: -0.022 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-01-02 13:02:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 55.07 Mbit/s
95th percentile per-packet one-way delay: 24.388 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 3.178 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.02 Mbit/s
95th percentile per-packet one-way delay: 24.366 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 45.87 Mbit/s
95th percentile per-packet one-way delay: 24.413 ms
Loss rate: 0.32%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 07:52:12

End at: 2018-01-02 07:52:42

Local clock offset: 0.022 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at 2018-01-02 13:02:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.12 Mbit/s

95th percentile per-packet one-way delay: 24.525 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 1.18 Mbit/s

95th percentile per-packet one-way delay: 2.645 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 24.499 ms

Loss rate: 0.08%

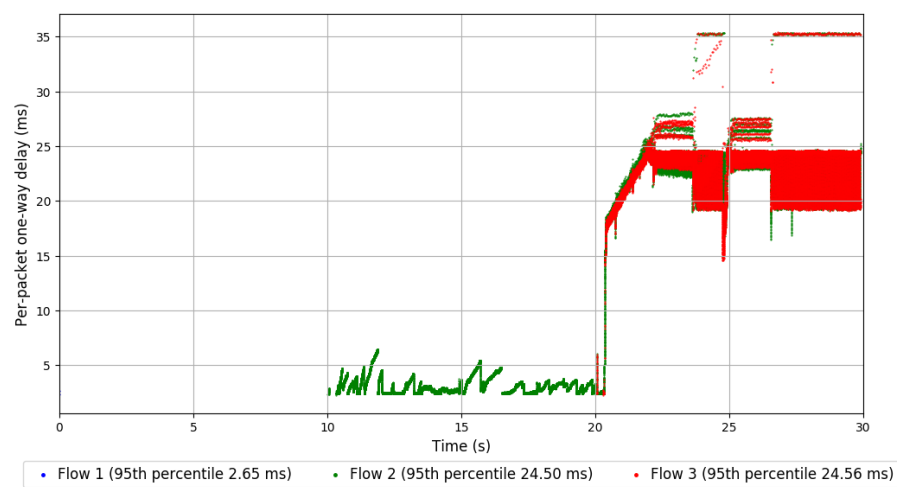
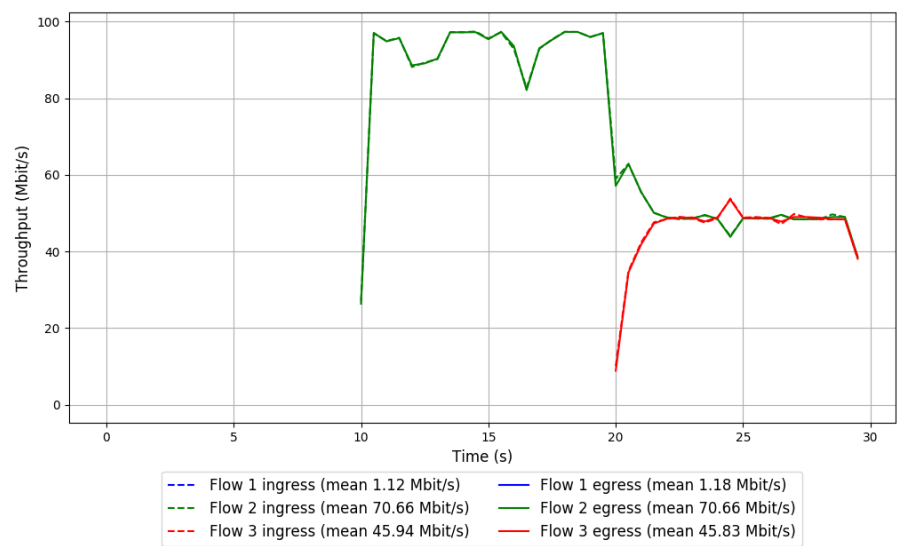
-- Flow 3:

Average throughput: 45.83 Mbit/s

95th percentile per-packet one-way delay: 24.557 ms

Loss rate: 0.27%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 08:09:09

End at: 2018-01-02 08:09:39

Local clock offset: -0.056 ms

Remote clock offset: 0.407 ms

Below is generated by plot.py at 2018-01-02 13:03:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.18 Mbit/s

95th percentile per-packet one-way delay: 24.467 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 1.16 Mbit/s

95th percentile per-packet one-way delay: 2.508 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.65 Mbit/s

95th percentile per-packet one-way delay: 24.441 ms

Loss rate: 0.10%

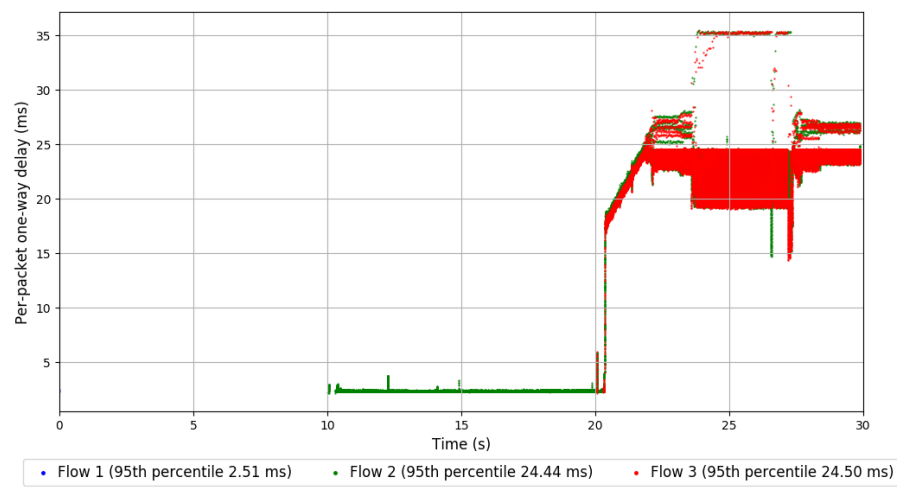
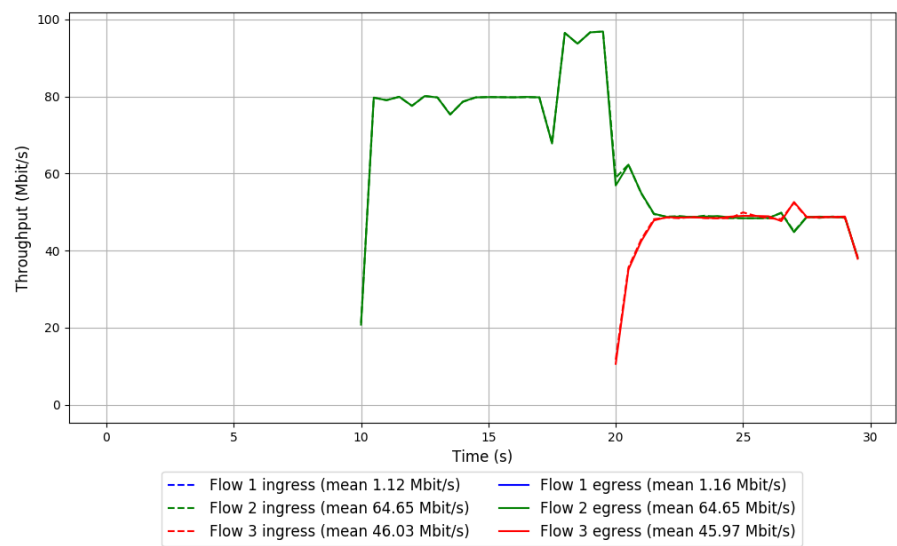
-- Flow 3:

Average throughput: 45.97 Mbit/s

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

Loss rate: 0.29%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 08:26:06

End at: 2018-01-02 08:26:36

Local clock offset: -0.089 ms

Remote clock offset: 0.594 ms

Below is generated by plot.py at 2018-01-02 13:03:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.58 Mbit/s

95th percentile per-packet one-way delay: 24.427 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 2.539 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.31 Mbit/s

95th percentile per-packet one-way delay: 24.408 ms

Loss rate: 0.12%

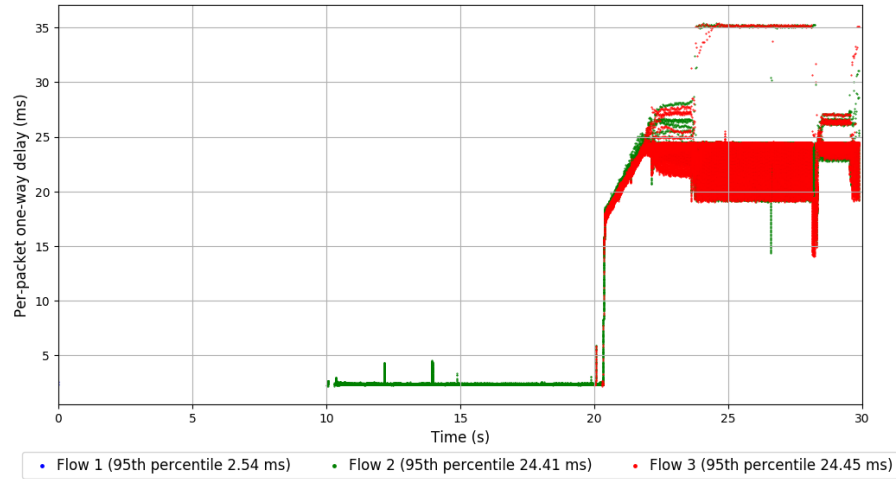
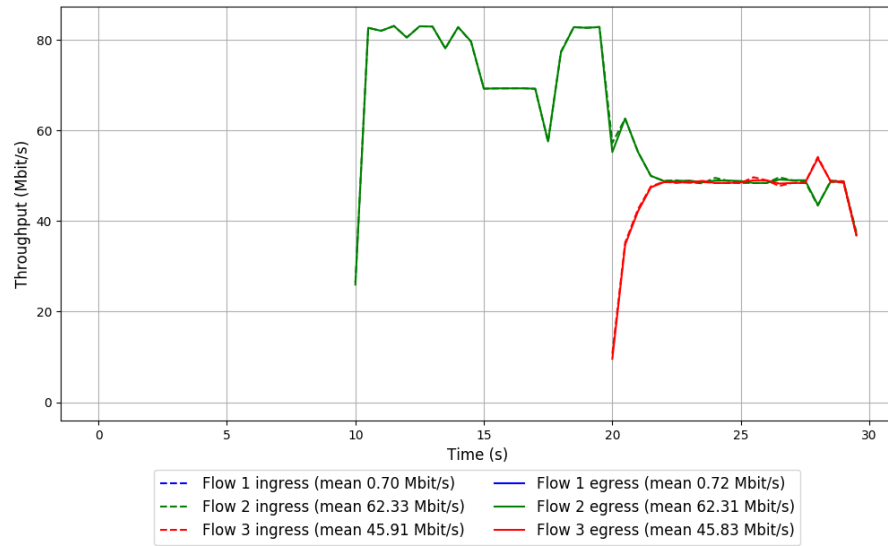
-- Flow 3:

Average throughput: 45.83 Mbit/s

95th percentile per-packet one-way delay: 24.447 ms

Loss rate: 0.23%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 08:43:04

End at: 2018-01-02 08:43:34

Local clock offset: -0.196 ms

Remote clock offset: 0.704 ms

Below is generated by plot.py at 2018-01-02 13:03:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.43 Mbit/s

95th percentile per-packet one-way delay: 24.363 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 0.96 Mbit/s

95th percentile per-packet one-way delay: 2.245 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 24.328 ms

Loss rate: 0.10%

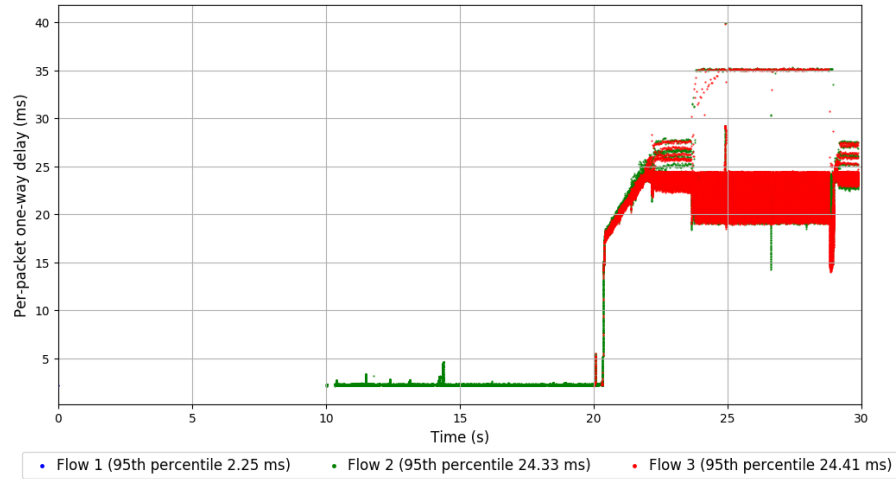
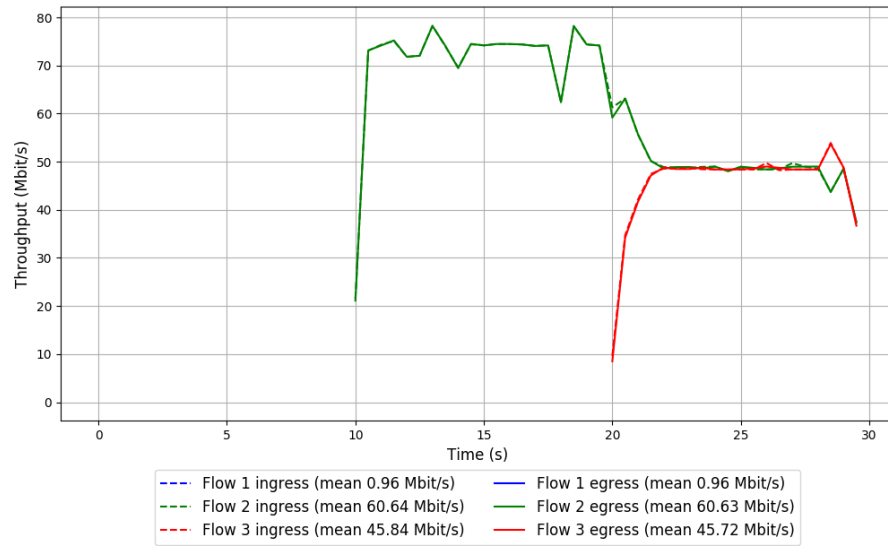
-- Flow 3:

Average throughput: 45.72 Mbit/s

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

Loss rate: 0.32%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 09:00:01

End at: 2018-01-02 09:00:31

Local clock offset: -0.161 ms

Remote clock offset: 0.66 ms

Below is generated by plot.py at 2018-01-02 13:03:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.97 Mbit/s

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

Loss rate: 0.14%

-- Flow 1:

Average throughput: 1.12 Mbit/s

95th percentile per-packet one-way delay: 2.517 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.46 Mbit/s

95th percentile per-packet one-way delay: 24.455 ms

Loss rate: 0.08%

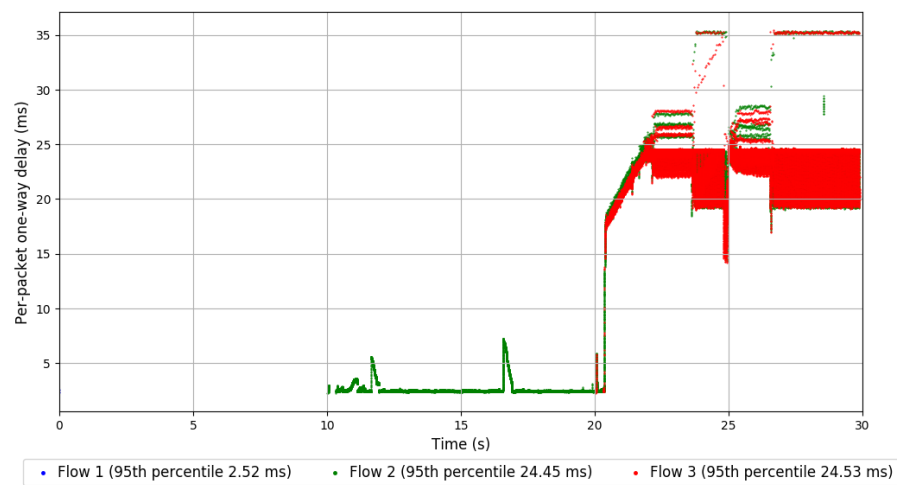
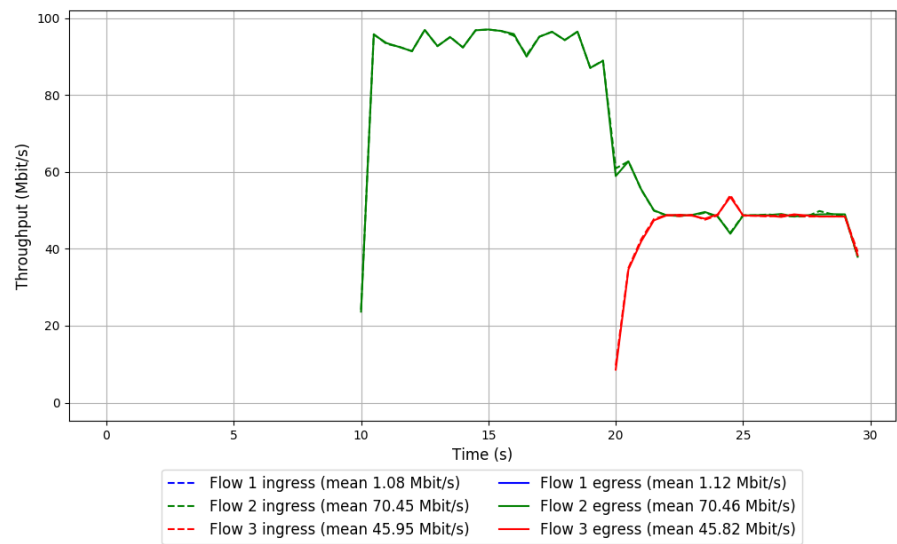
-- Flow 3:

Average throughput: 45.82 Mbit/s

95th percentile per-packet one-way delay: 24.527 ms

Loss rate: 0.34%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 09:17:01

End at: 2018-01-02 09:17:31

Local clock offset: -0.211 ms

Remote clock offset: 0.707 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.76 Mbit/s

95th percentile per-packet one-way delay: 24.436 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 2.327 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.20 Mbit/s

95th percentile per-packet one-way delay: 24.399 ms

Loss rate: 0.08%

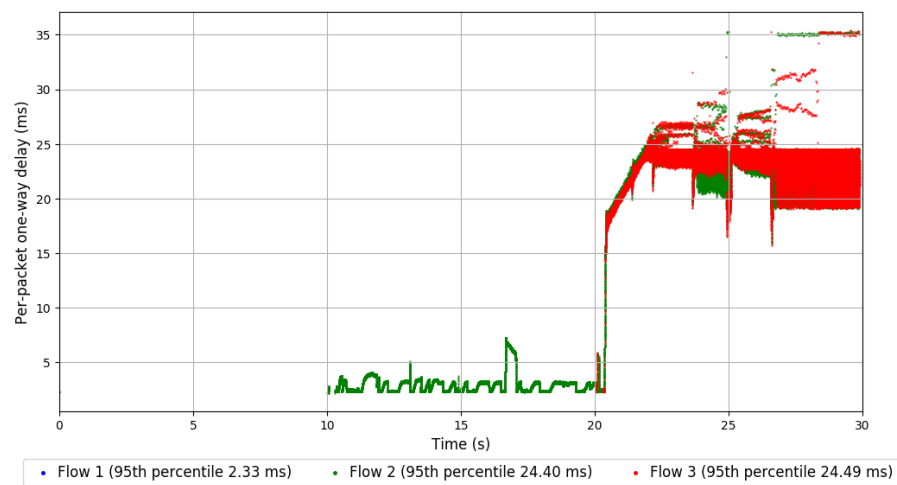
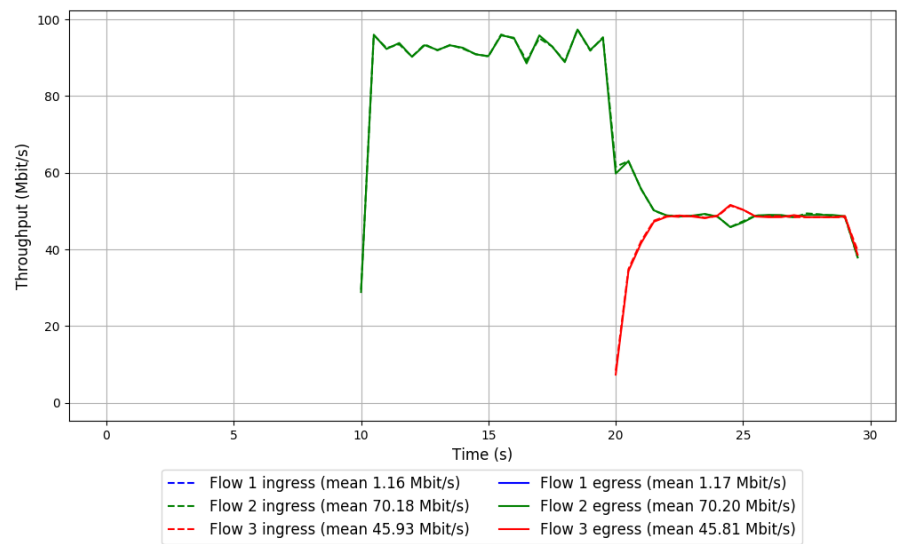
-- Flow 3:

Average throughput: 45.81 Mbit/s

95th percentile per-packet one-way delay: 24.494 ms

Loss rate: 0.32%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 09:33:58

End at: 2018-01-02 09:34:28

Local clock offset: -0.232 ms

Remote clock offset: 0.703 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 24.481 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 1.10 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 61.66 Mbit/s

95th percentile per-packet one-way delay: 24.449 ms

Loss rate: 0.09%

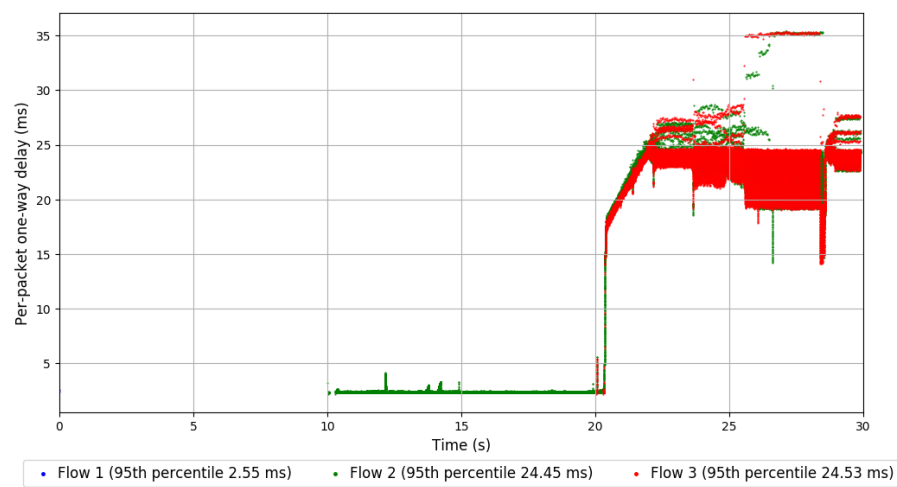
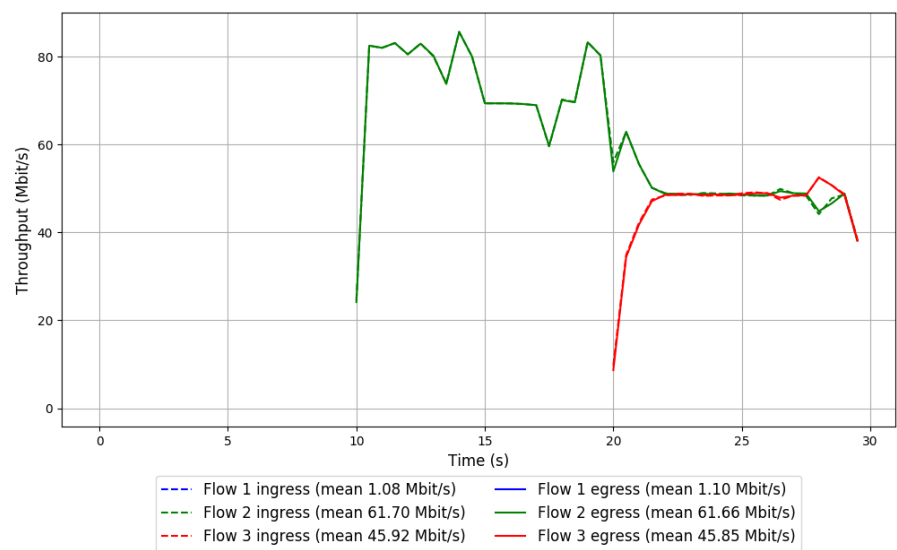
-- Flow 3:

Average throughput: 45.85 Mbit/s

95th percentile per-packet one-way delay: 24.533 ms

Loss rate: 0.30%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 09:50:55

End at: 2018-01-02 09:51:25

Local clock offset: -0.324 ms

Remote clock offset: 0.723 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.06 Mbit/s

95th percentile per-packet one-way delay: 24.431 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 2.688 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.07 Mbit/s

95th percentile per-packet one-way delay: 24.420 ms

Loss rate: 0.09%

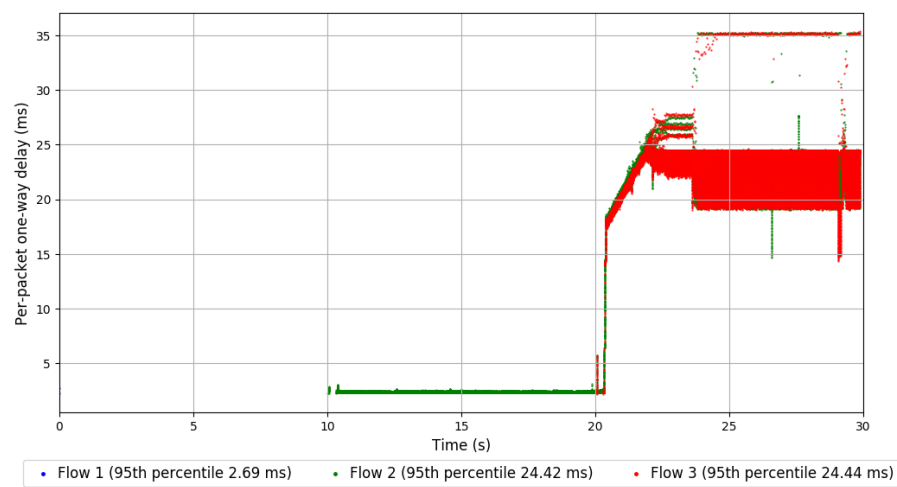
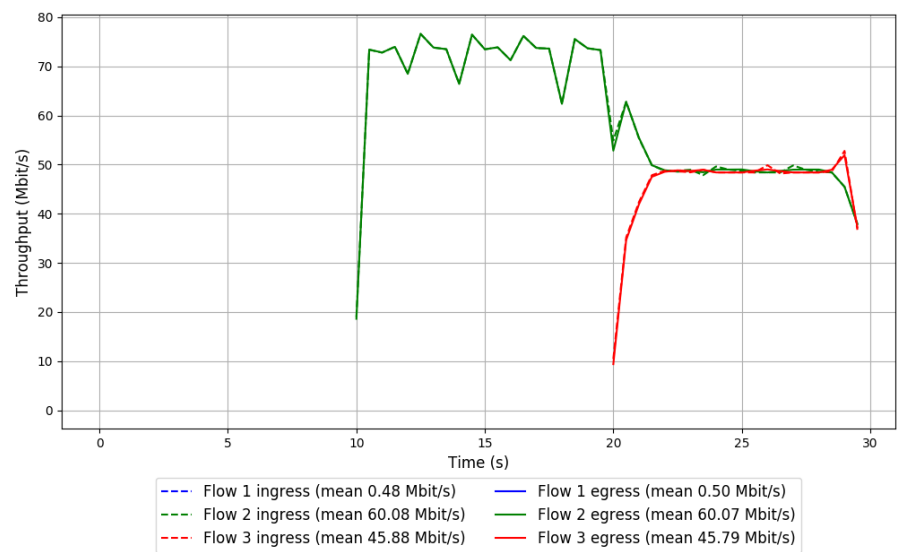
-- Flow 3:

Average throughput: 45.79 Mbit/s

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

Loss rate: 0.23%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2018-01-02 07:21:41

End at: 2018-01-02 07:22:11

Local clock offset: 0.103 ms

Remote clock offset: -0.24 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.20%

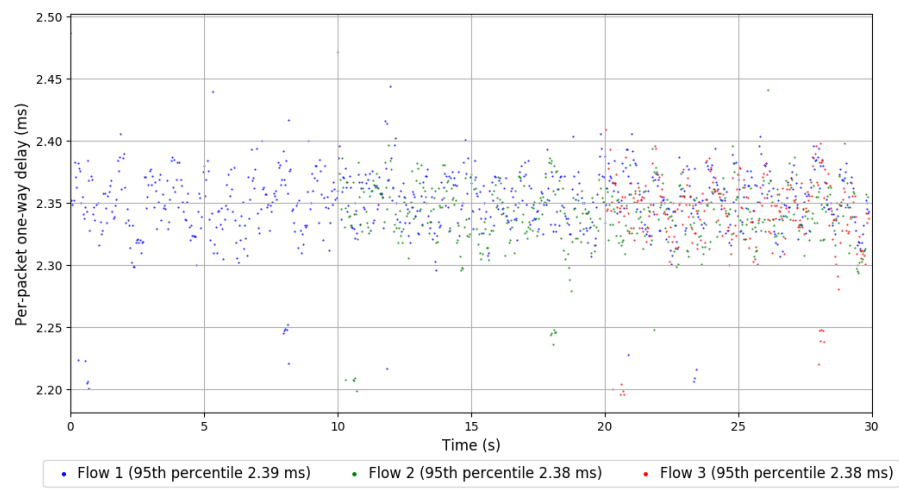
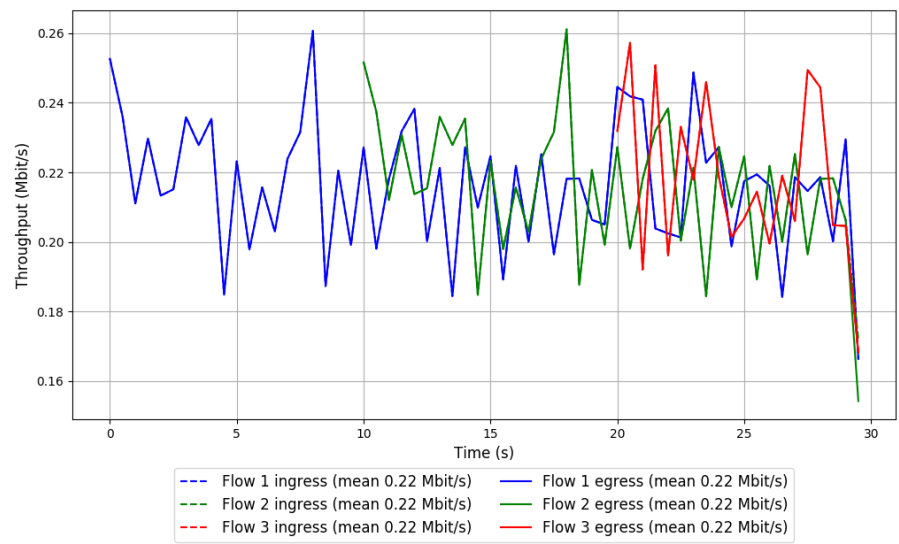
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.383 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

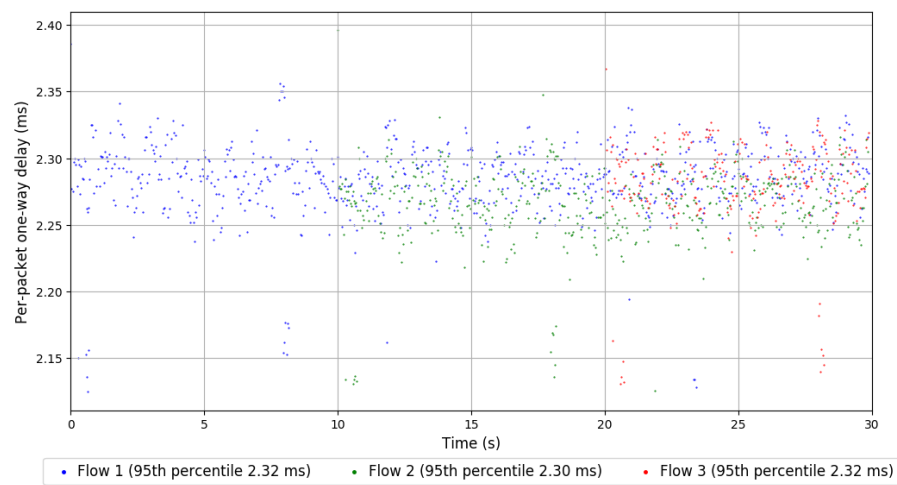
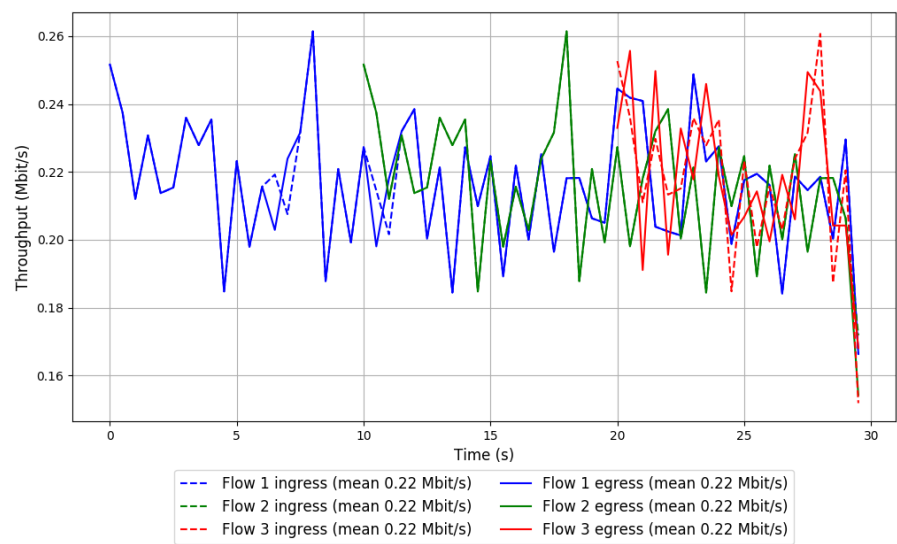


```
Run 2: Statistics of SReAM

Start at: 2018-01-02 07:38:38
End at: 2018-01-02 07:39:08
Local clock offset: -0.023 ms
Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-01-02 13:04:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.318 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.322 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.303 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.319 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

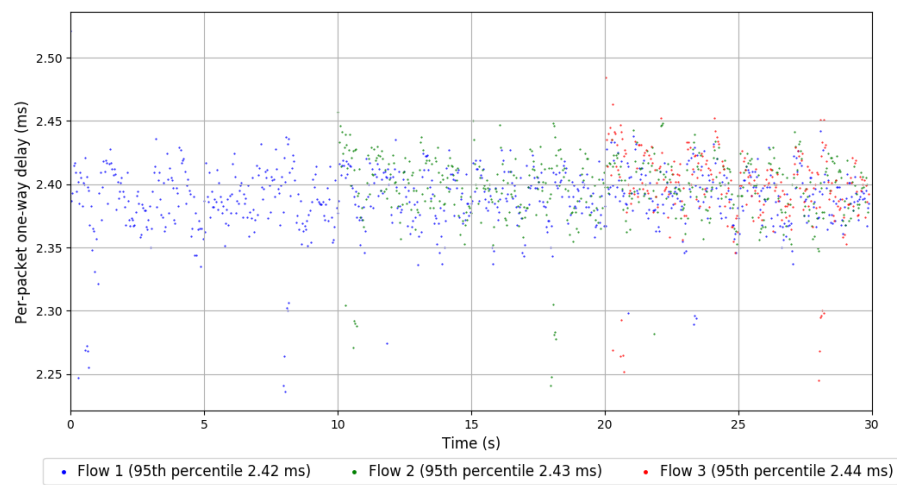
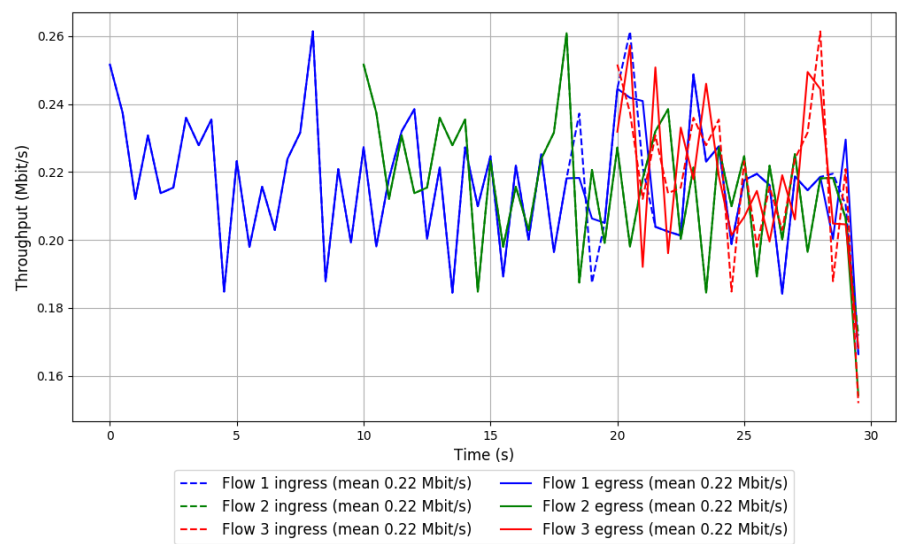


Run 3: Statistics of SReAM

Start at: 2018-01-02 07:55:35
End at: 2018-01-02 07:56:05
Local clock offset: -0.015 ms
Remote clock offset: 0.205 ms

Below is generated by plot.py at 2018-01-02 13:04:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.429 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.422 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.432 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.437 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-01-02 08:12:32

End at: 2018-01-02 08:13:02

Local clock offset: -0.06 ms

Remote clock offset: 0.466 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.360 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.360 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.352 ms

Loss rate: 0.00%

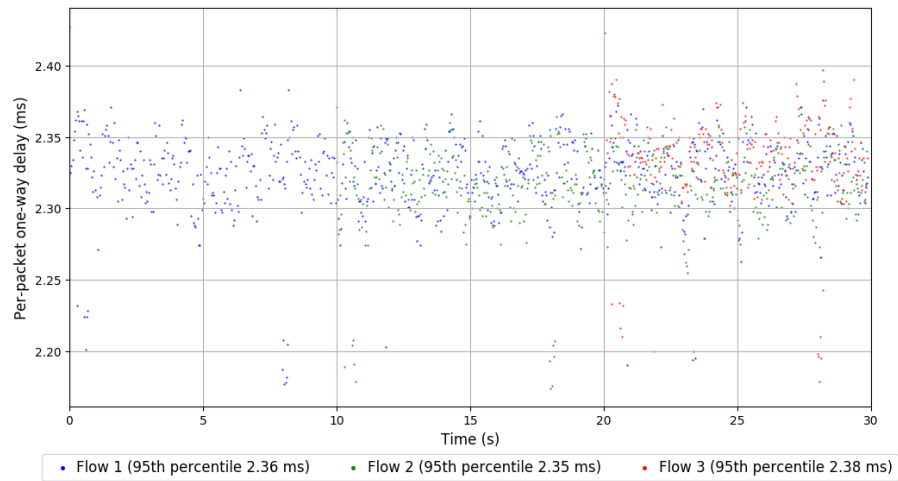
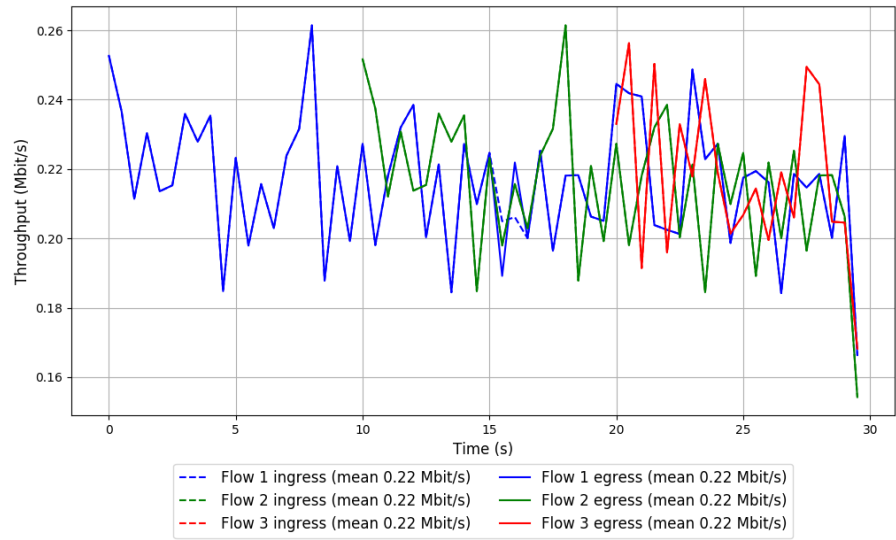
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-02 08:29:29

End at: 2018-01-02 08:29:59

Local clock offset: -0.078 ms

Remote clock offset: 0.62 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.390 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.385 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.388 ms

Loss rate: 0.00%

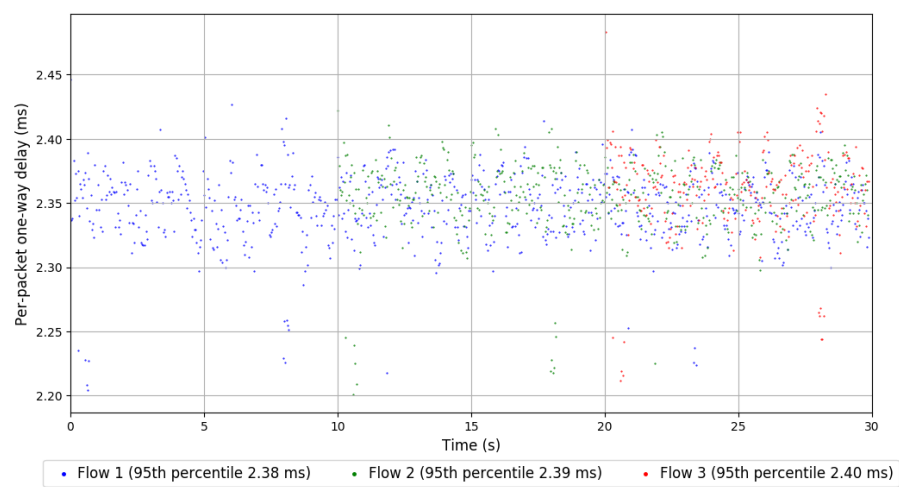
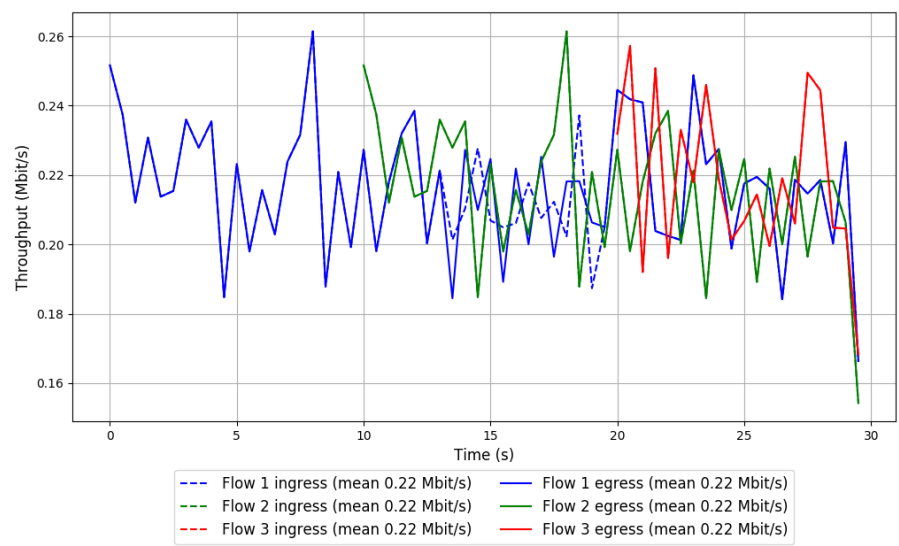
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.405 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-02 08:46:26

End at: 2018-01-02 08:46:56

Local clock offset: -0.105 ms

Remote clock offset: 0.712 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.400 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.397 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.401 ms

Loss rate: 0.20%

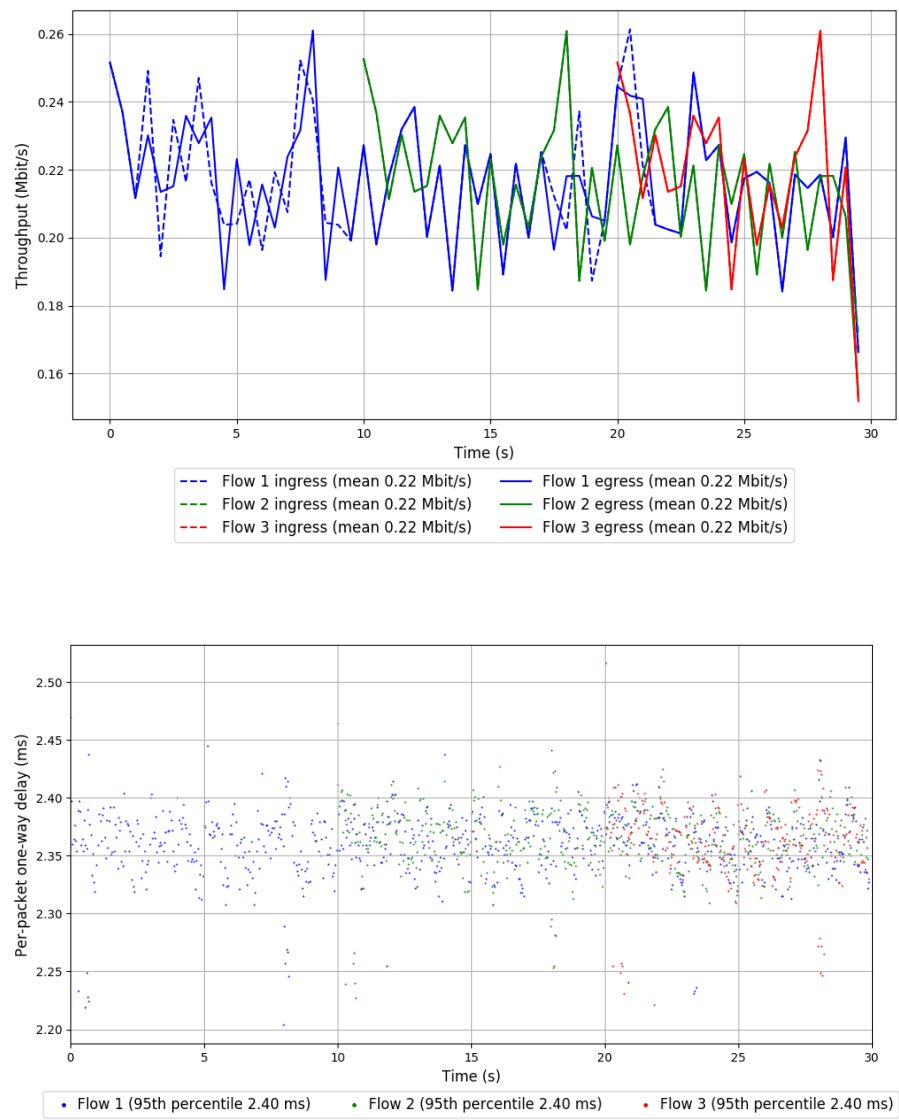
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.404 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

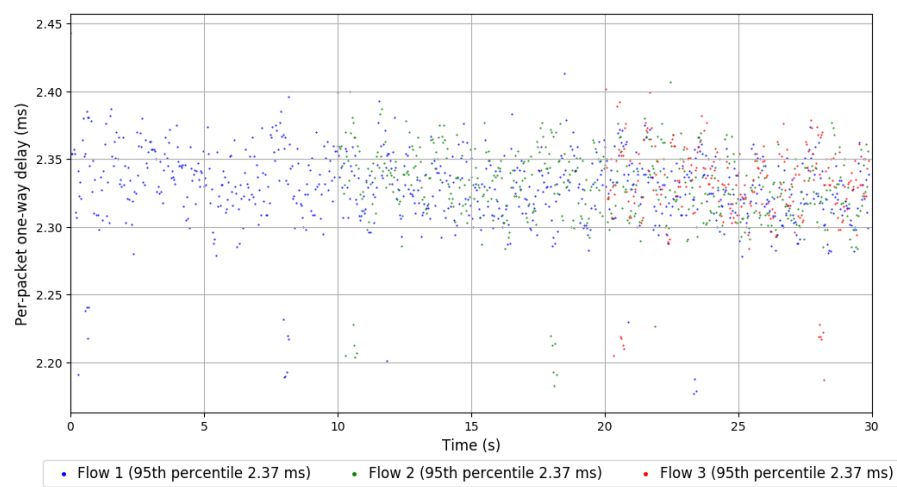
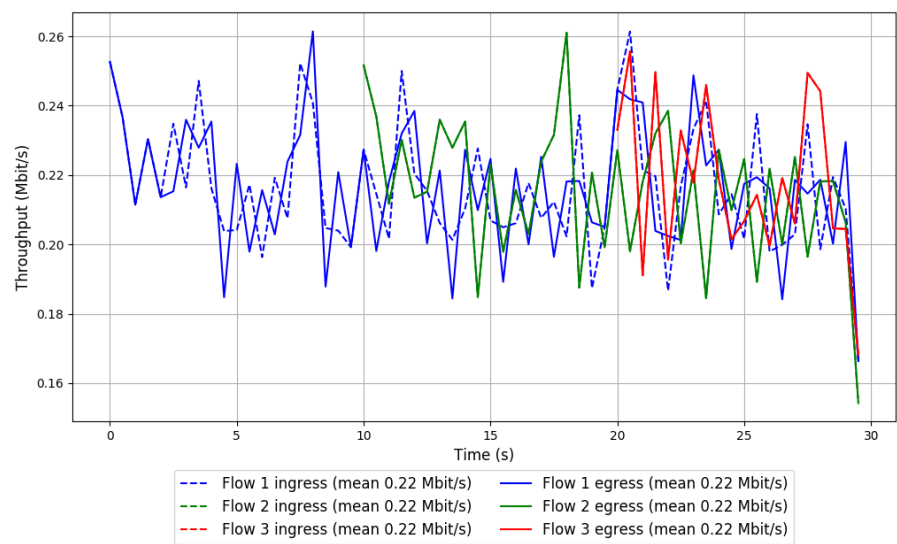


Run 7: Statistics of SReAM

Start at: 2018-01-02 09:03:24
End at: 2018-01-02 09:03:54
Local clock offset: -0.228 ms
Remote clock offset: 0.652 ms

Below is generated by plot.py at 2018-01-02 13:04:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.369 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.373 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-02 09:20:23

End at: 2018-01-02 09:20:53

Local clock offset: -0.218 ms

Remote clock offset: 0.712 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.358 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.343 ms

Loss rate: 0.20%

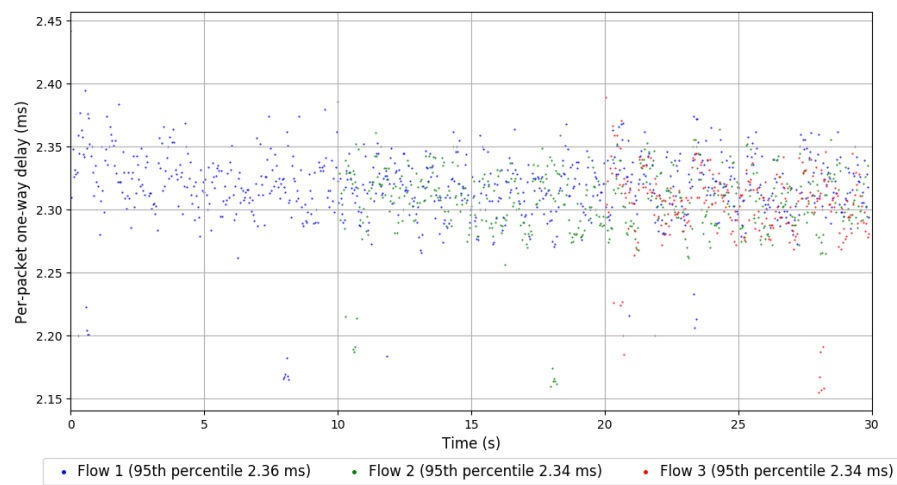
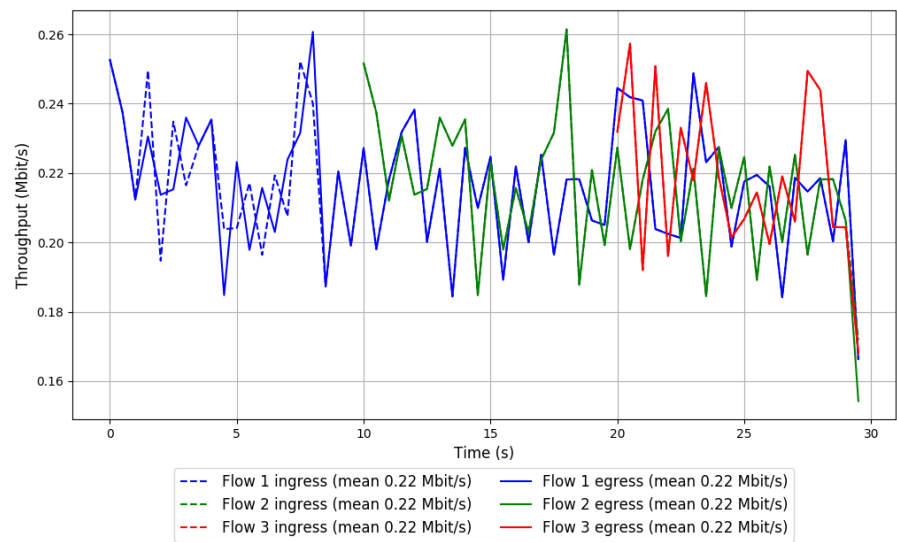
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.342 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-02 09:37:20

End at: 2018-01-02 09:37:50

Local clock offset: -0.258 ms

Remote clock offset: 0.698 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.374 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: 2.368 ms

Loss rate: 0.00%

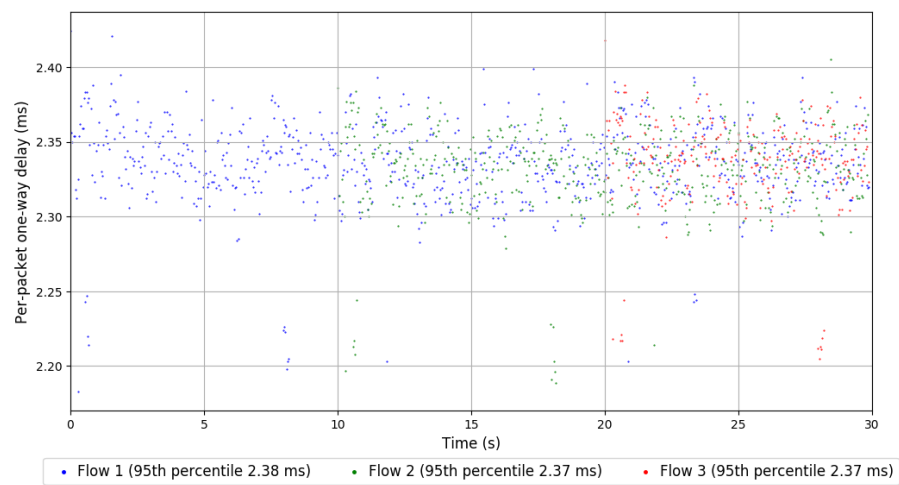
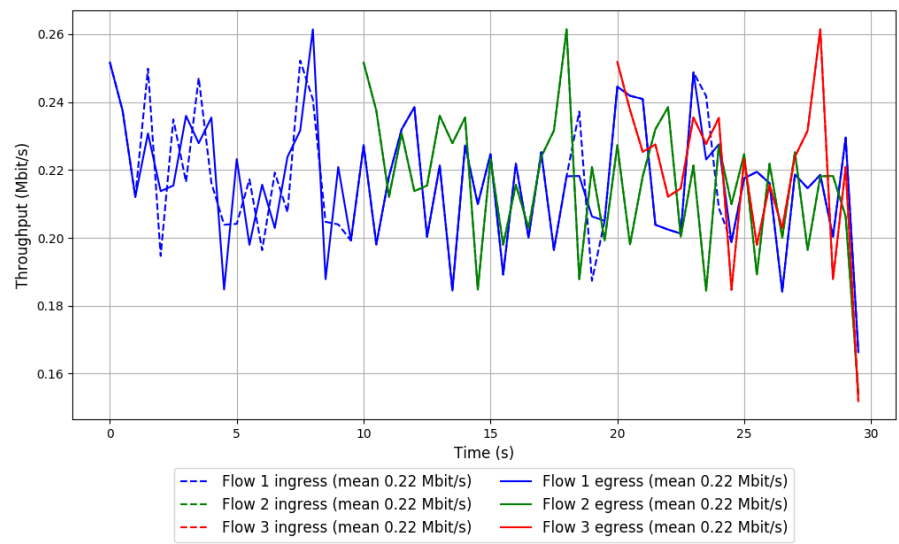
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.374 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-02 09:54:17

End at: 2018-01-02 09:54:47

Local clock offset: -0.354 ms

Remote clock offset: 0.733 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.336 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.338 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.334 ms

Loss rate: 0.00%

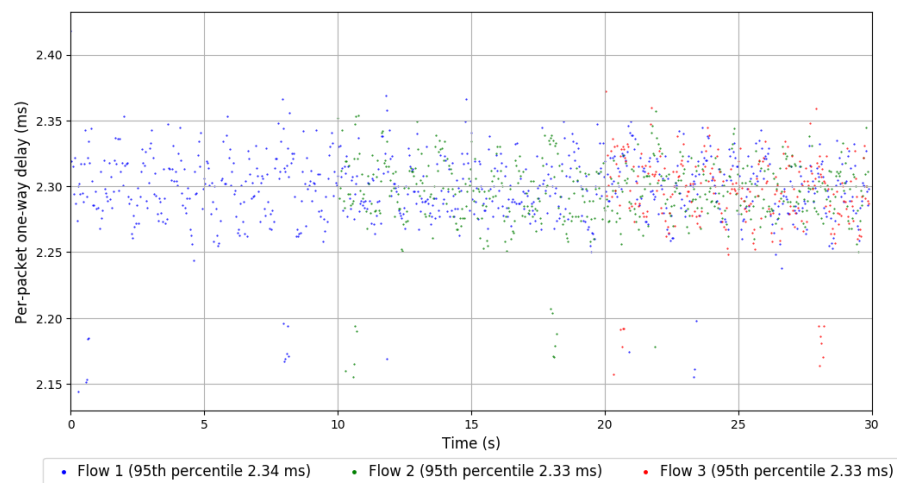
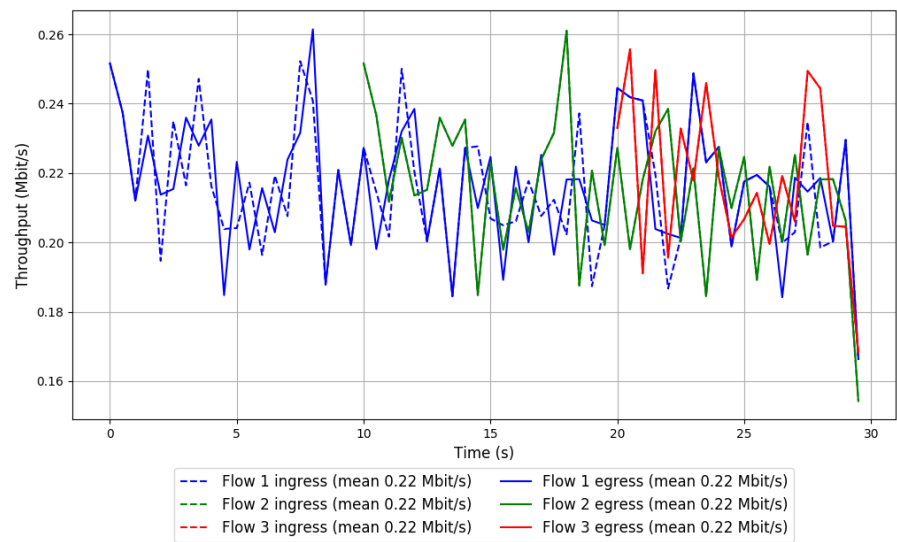
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.331 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

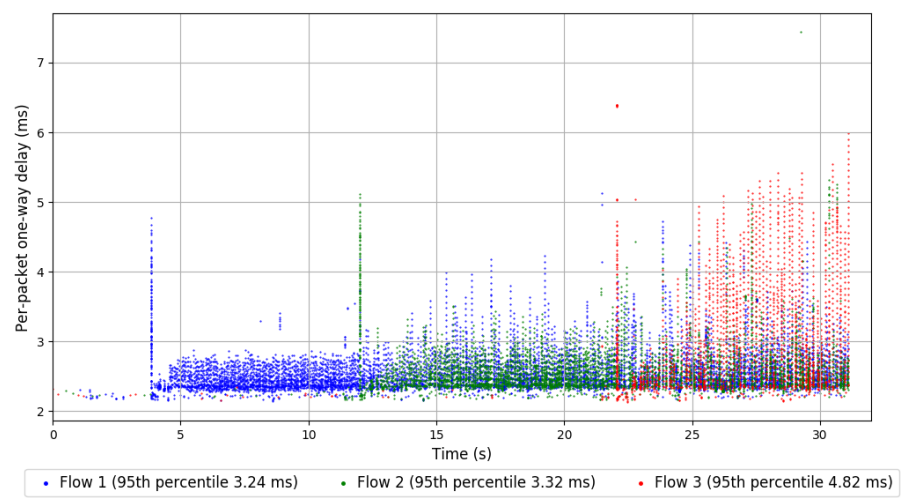
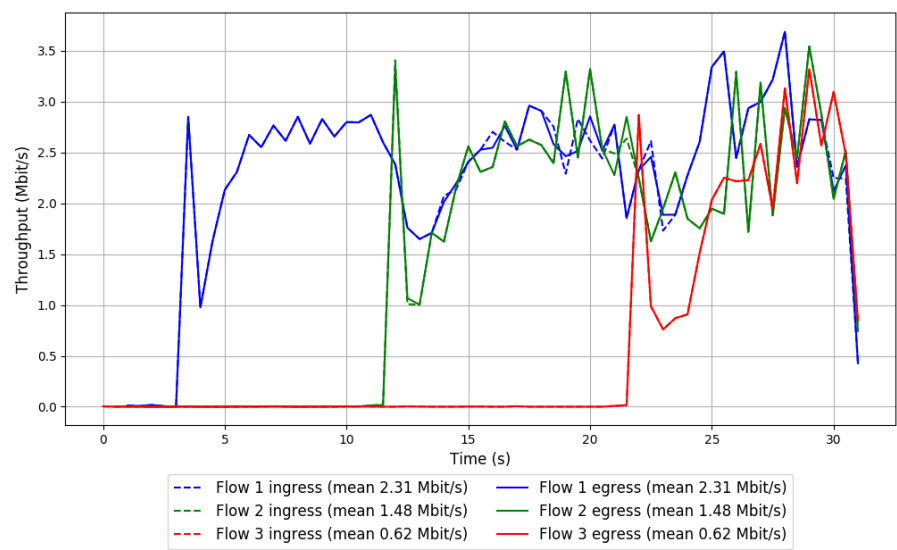


Run 1: Statistics of WebRTC media

Start at: 2018-01-02 07:27:21
End at: 2018-01-02 07:27:51
Local clock offset: 0.056 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2018-01-02 13:04:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 3.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 3.238 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 3.319 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 4.817 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-02 07:44:18

End at: 2018-01-02 07:44:48

Local clock offset: 0.011 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 3.086 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.000 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 2.953 ms

Loss rate: 0.00%

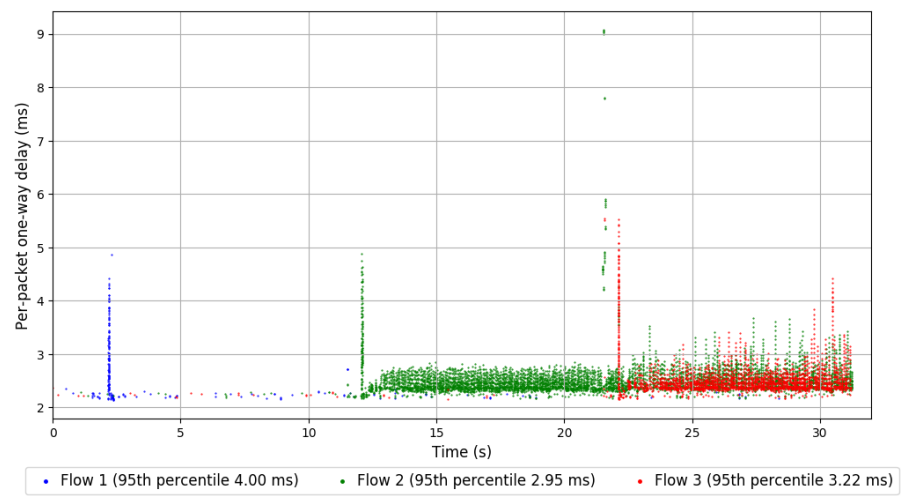
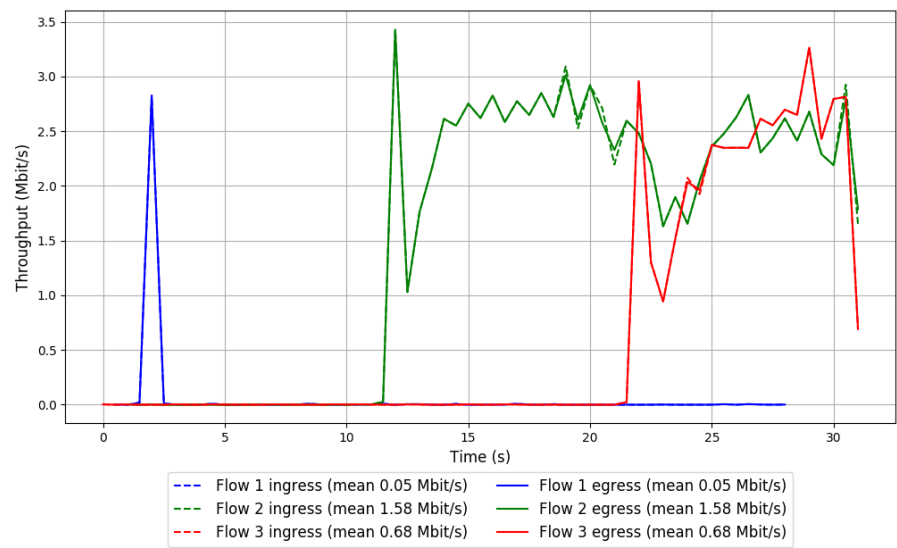
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 3.223 ms

Loss rate: 0.01%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 08:01:15

End at: 2018-01-02 08:01:45

Local clock offset: -0.016 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.50 Mbit/s

95th percentile per-packet one-way delay: 3.392 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 3.282 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 3.492 ms

Loss rate: 0.00%

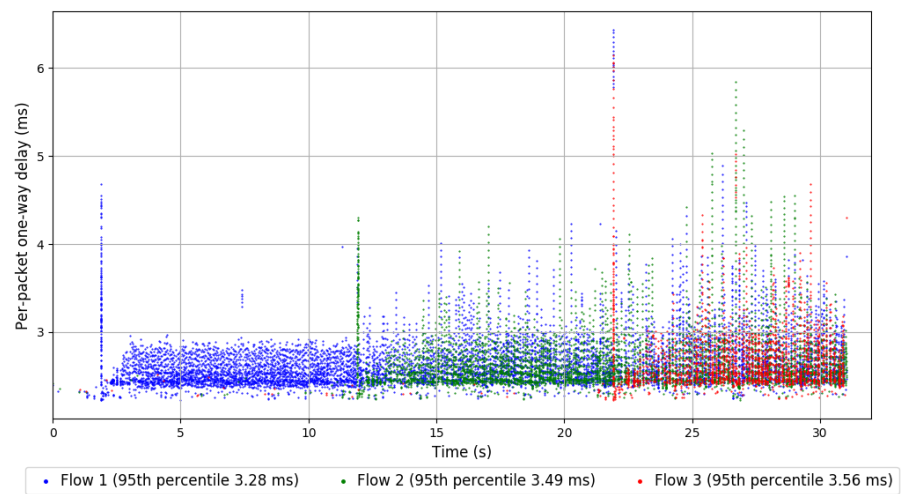
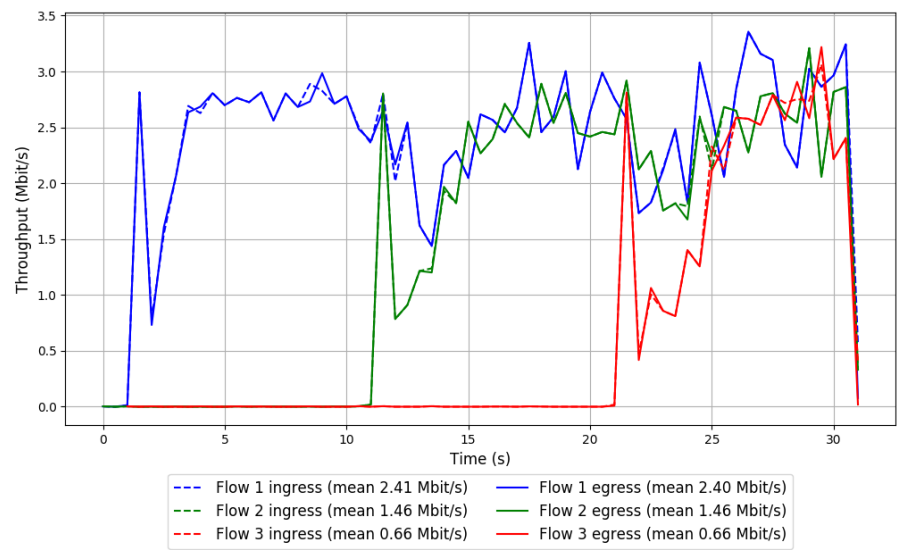
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 3.565 ms

Loss rate: 0.93%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 08:18:12

End at: 2018-01-02 08:18:42

Local clock offset: -0.047 ms

Remote clock offset: 0.525 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 3.028 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.349 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 2.973 ms

Loss rate: 0.00%

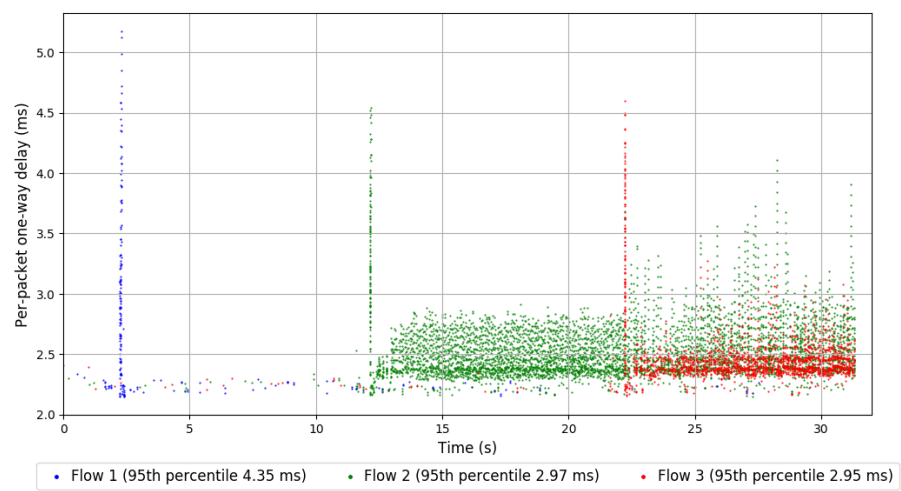
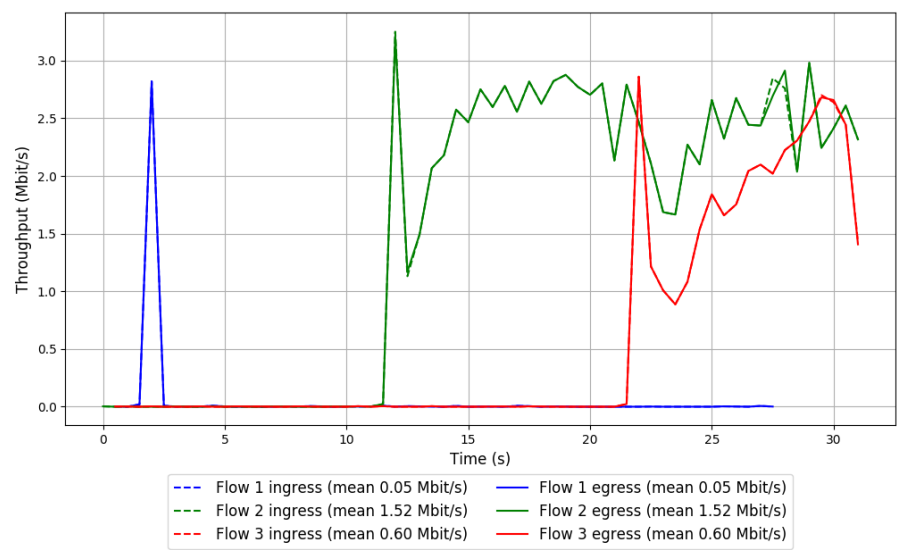
-- Flow 3:

Average throughput: 0.60 Mbit/s

95th percentile per-packet one-way delay: 2.953 ms

Loss rate: 0.05%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 08:35:09

End at: 2018-01-02 08:35:39

Local clock offset: -0.075 ms

Remote clock offset: 0.575 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 3.481 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 3.463 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 3.350 ms

Loss rate: 0.00%

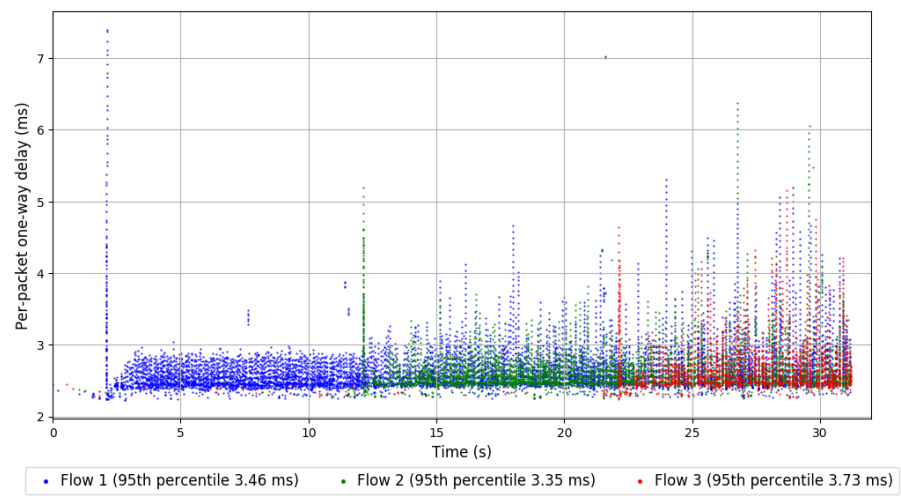
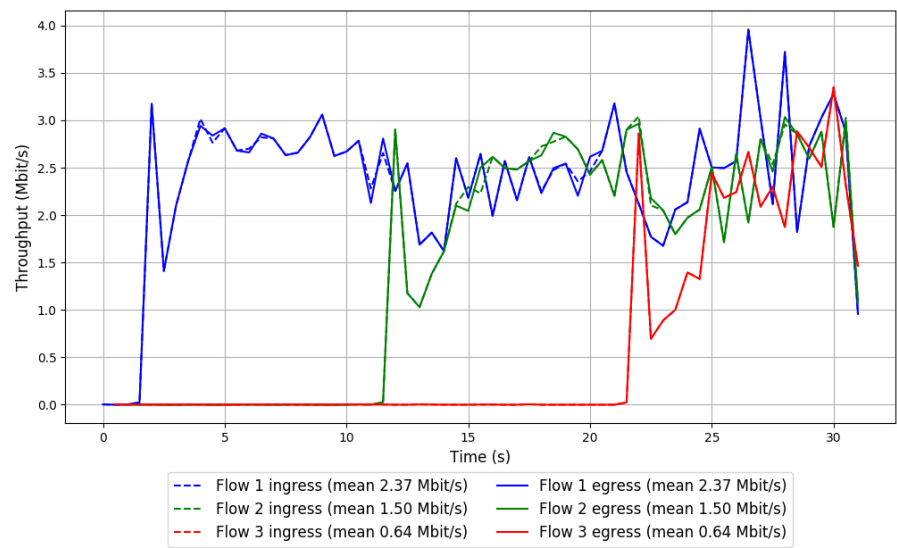
-- Flow 3:

Average throughput: 0.64 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 08:52:07

End at: 2018-01-02 08:52:37

Local clock offset: -0.141 ms

Remote clock offset: 0.723 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 3.194 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.608 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.52 Mbit/s

95th percentile per-packet one-way delay: 3.027 ms

Loss rate: 0.00%

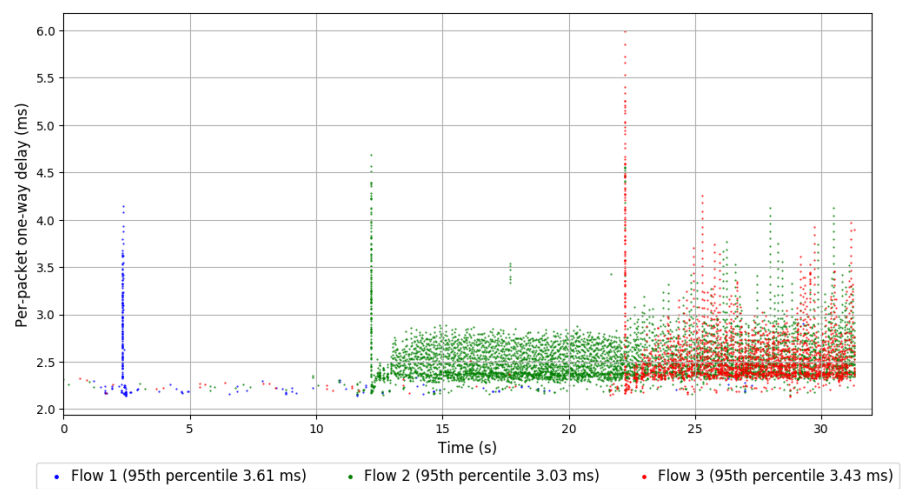
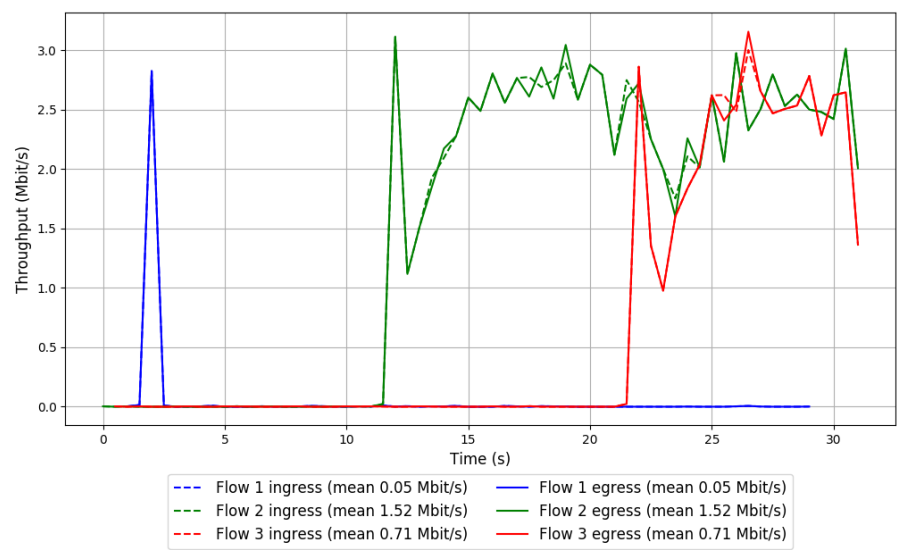
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 3.431 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-02 09:09:06

End at: 2018-01-02 09:09:36

Local clock offset: -0.236 ms

Remote clock offset: 0.713 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 3.026 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.177 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 2.964 ms

Loss rate: 0.00%

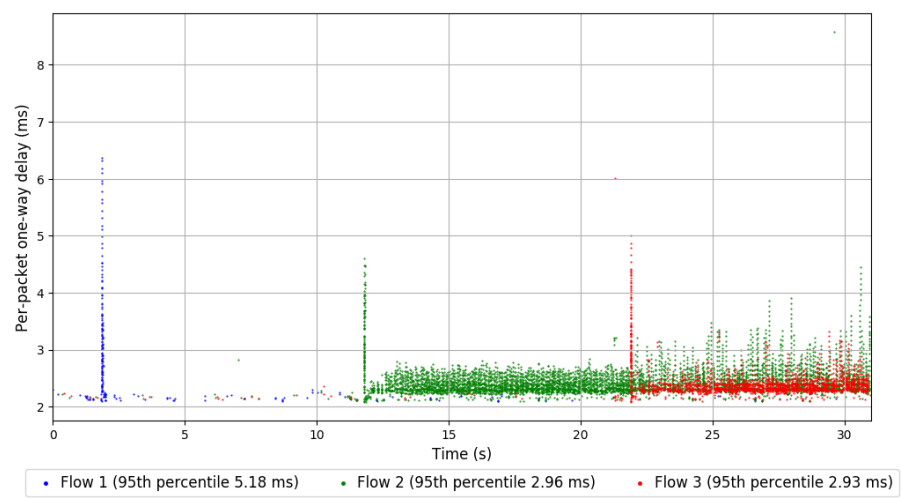
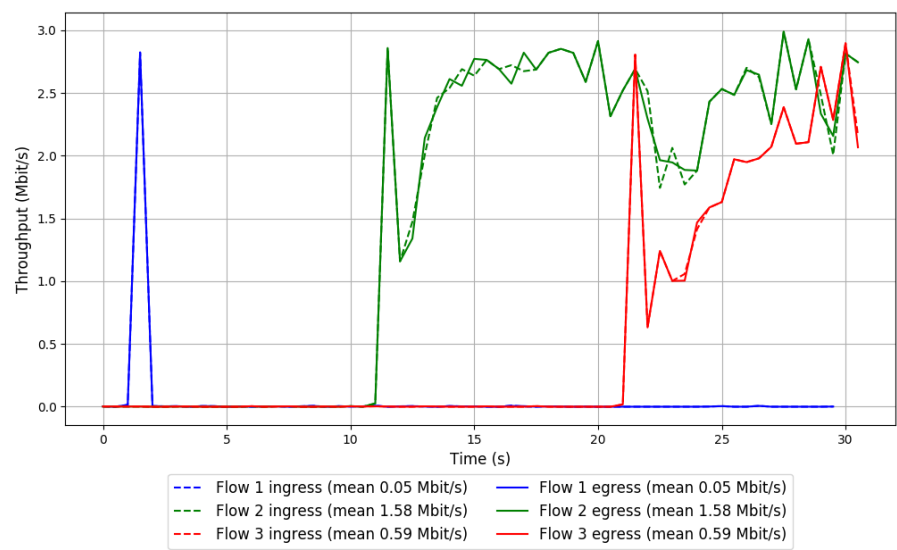
-- Flow 3:

Average throughput: 0.59 Mbit/s

95th percentile per-packet one-way delay: 2.928 ms

Loss rate: 0.26%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 09:26:03

End at: 2018-01-02 09:26:33

Local clock offset: -0.288 ms

Remote clock offset: 0.685 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.04 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.168 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.59 Mbit/s

95th percentile per-packet one-way delay: 3.053 ms

Loss rate: 0.00%

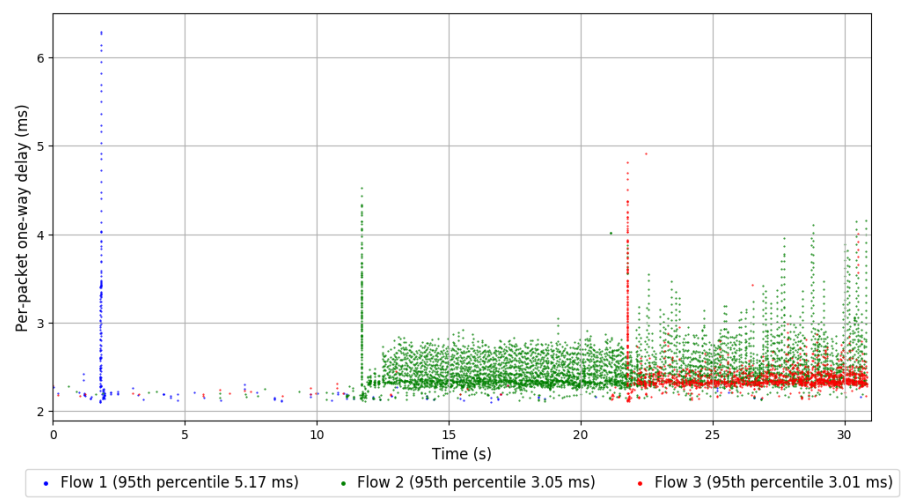
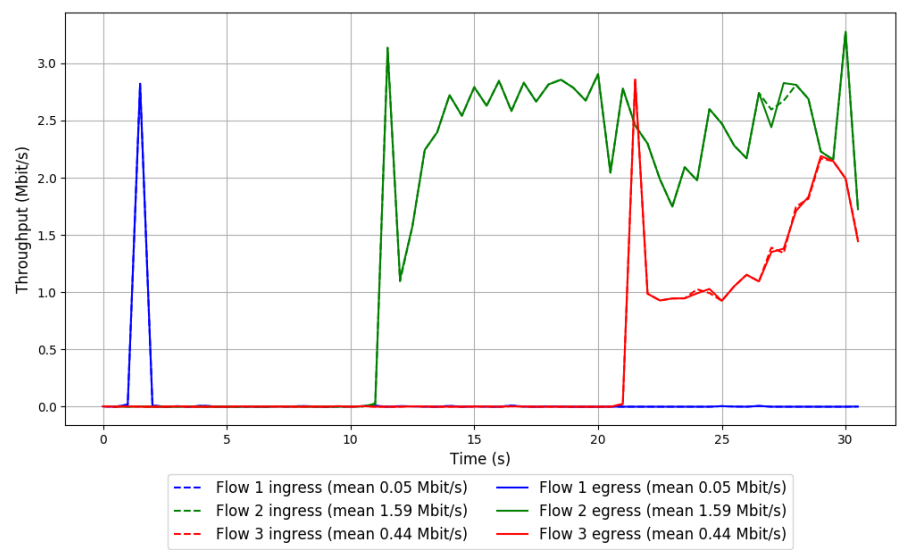
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 3.008 ms

Loss rate: 0.07%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 09:43:00

End at: 2018-01-02 09:43:30

Local clock offset: -0.274 ms

Remote clock offset: 0.689 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.51 Mbit/s

95th percentile per-packet one-way delay: 3.261 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 3.182 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 3.372 ms

Loss rate: 0.00%

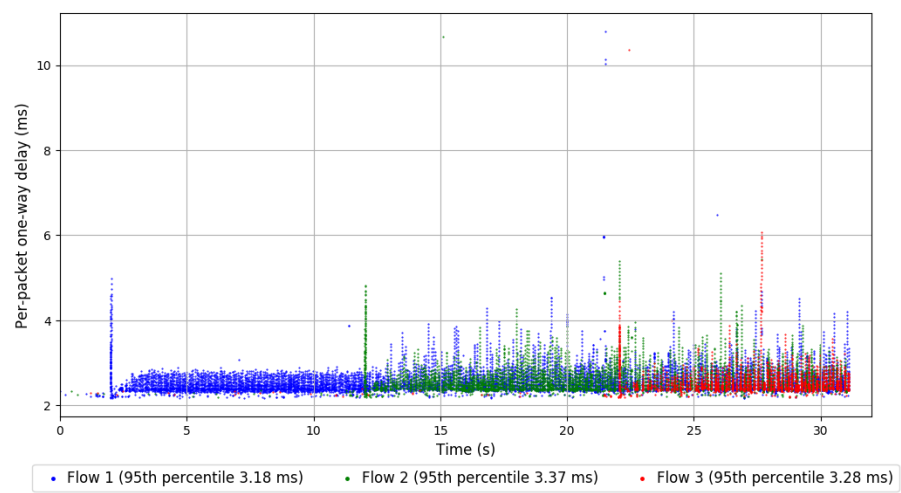
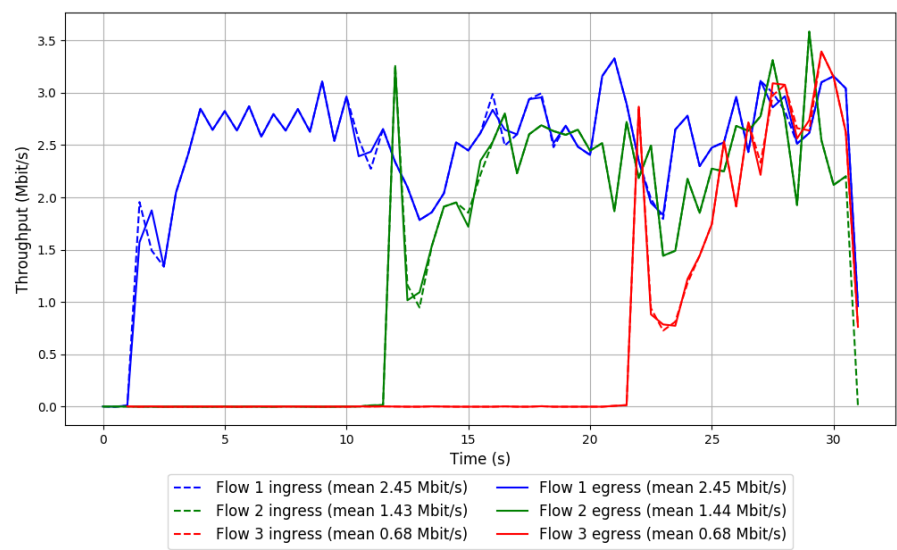
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 3.281 ms

Loss rate: 0.01%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 09:59:57

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

Local clock offset: -0.343 ms

Remote clock offset: 0.749 ms

Below is generated by plot.py at 2018-01-02 13:04:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.41 Mbit/s

95th percentile per-packet one-way delay: 3.216 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 3.272 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 3.015 ms

Loss rate: 0.00%

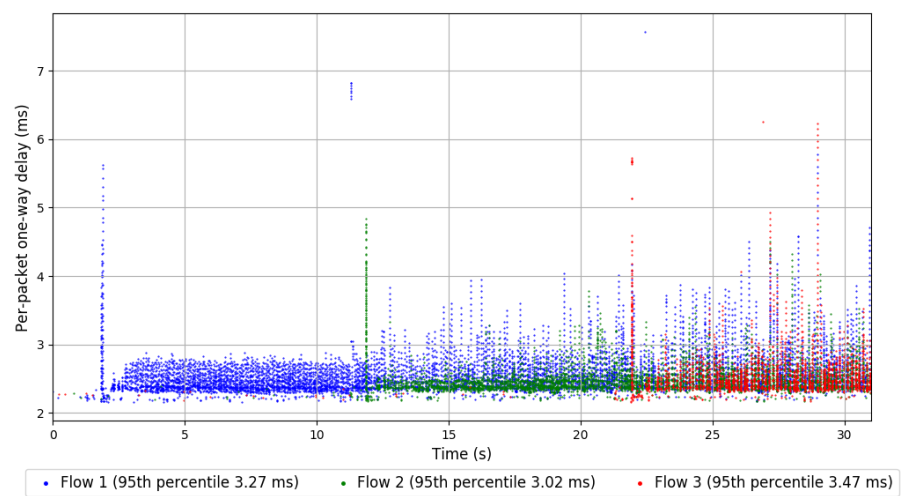
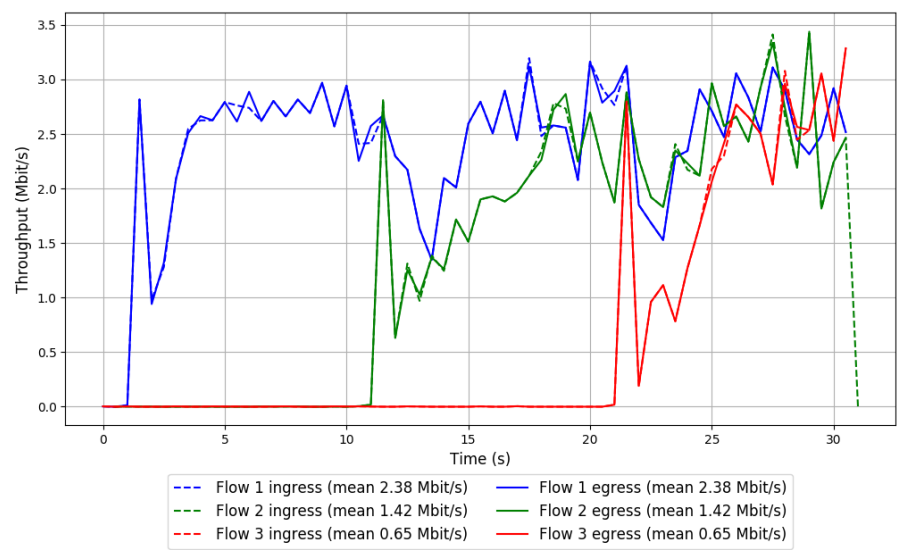
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 3.471 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

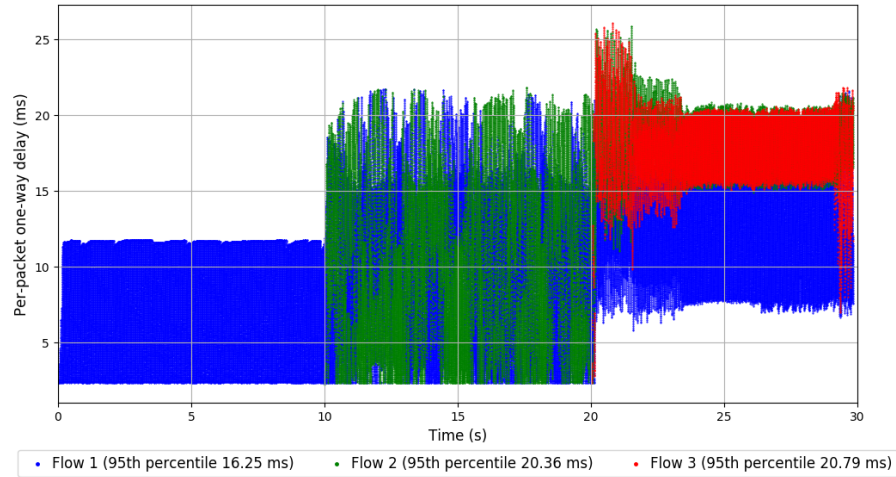
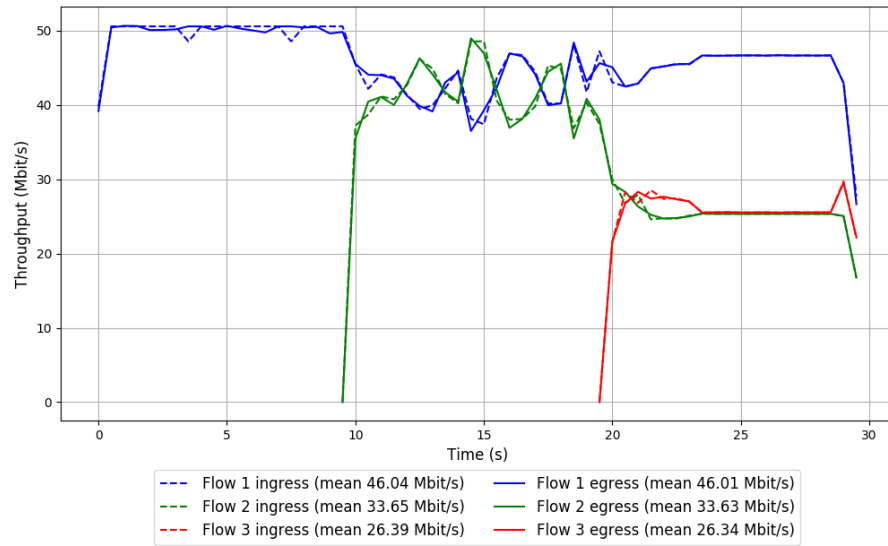


Run 1: Statistics of Sprout

Start at: 2018-01-02 07:28:25
End at: 2018-01-02 07:28:55
Local clock offset: 0.051 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-01-02 13:04:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.06 Mbit/s
95th percentile per-packet one-way delay: 19.712 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 46.01 Mbit/s
95th percentile per-packet one-way delay: 16.248 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 33.63 Mbit/s
95th percentile per-packet one-way delay: 20.364 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 26.34 Mbit/s
95th percentile per-packet one-way delay: 20.787 ms
Loss rate: 0.18%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 07:45:22

End at: 2018-01-02 07:45:52

Local clock offset: 0.025 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-01-02 13:04:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 19.713 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 18.864 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 39.40 Mbit/s

95th percentile per-packet one-way delay: 19.617 ms

Loss rate: 0.13%

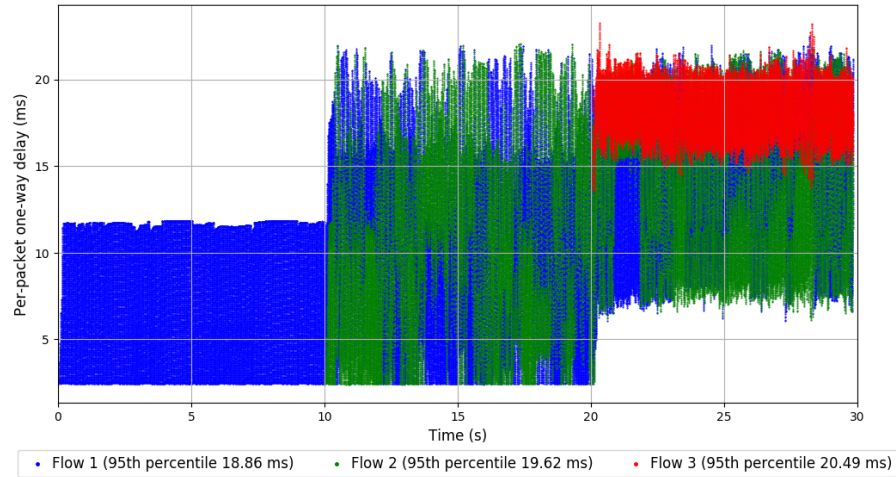
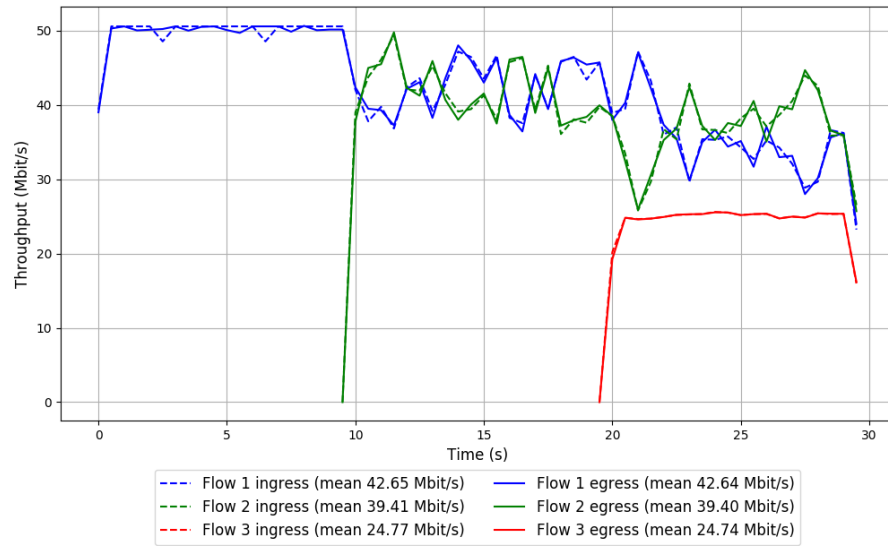
-- Flow 3:

Average throughput: 24.74 Mbit/s

95th percentile per-packet one-way delay: 20.494 ms

Loss rate: 0.16%

Run 2: Report of Sprout — Data Link

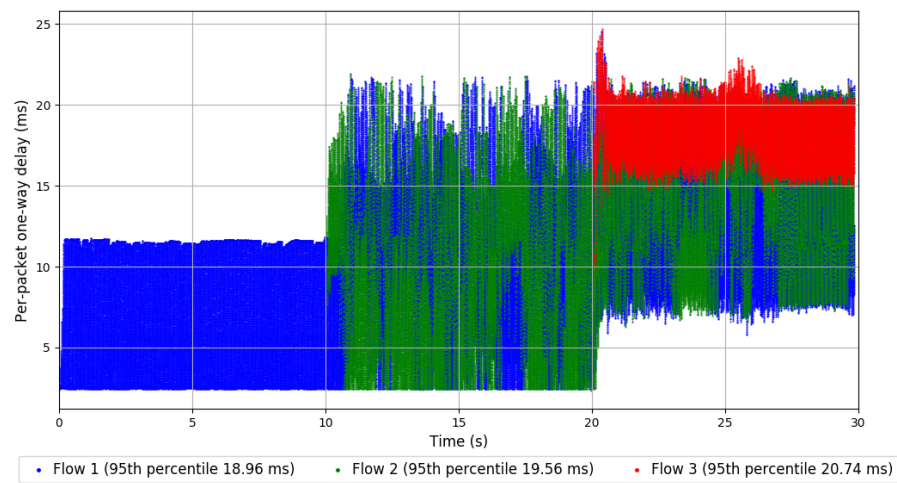
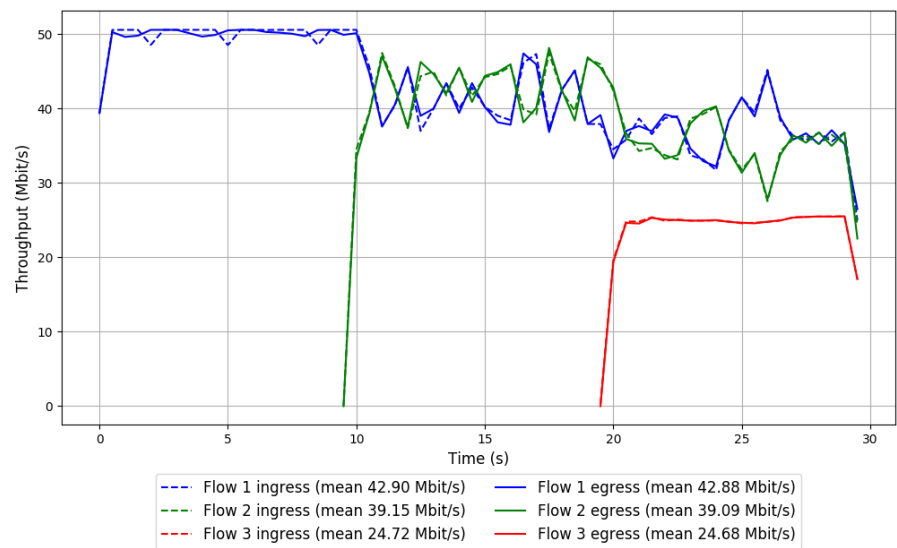


Run 3: Statistics of Sprout

Start at: 2018-01-02 08:02:19
End at: 2018-01-02 08:02:49
Local clock offset: -0.021 ms
Remote clock offset: 0.272 ms

```
# Below is generated by plot.py at 2018-01-02 13:04:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 19.773 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 42.88 Mbit/s
95th percentile per-packet one-way delay: 18.965 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.09 Mbit/s
95th percentile per-packet one-way delay: 19.563 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 20.740 ms
Loss rate: 0.20%
```


Run 3: Report of Sprout — Data Link

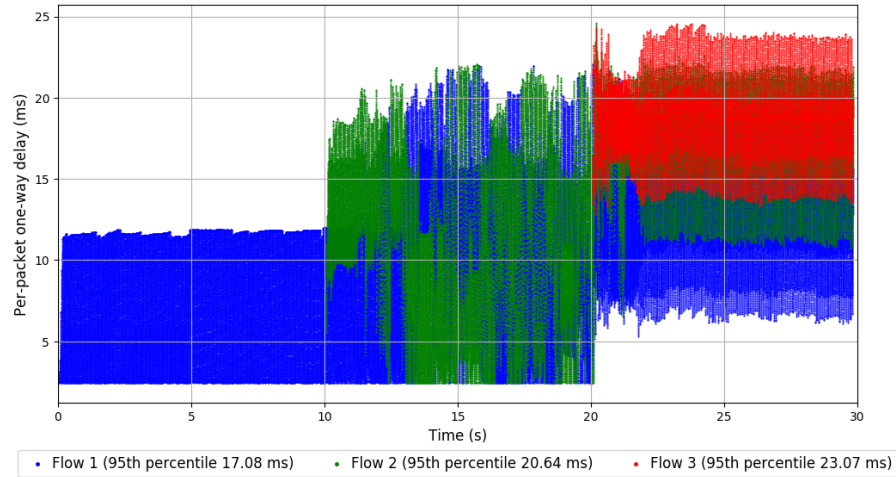
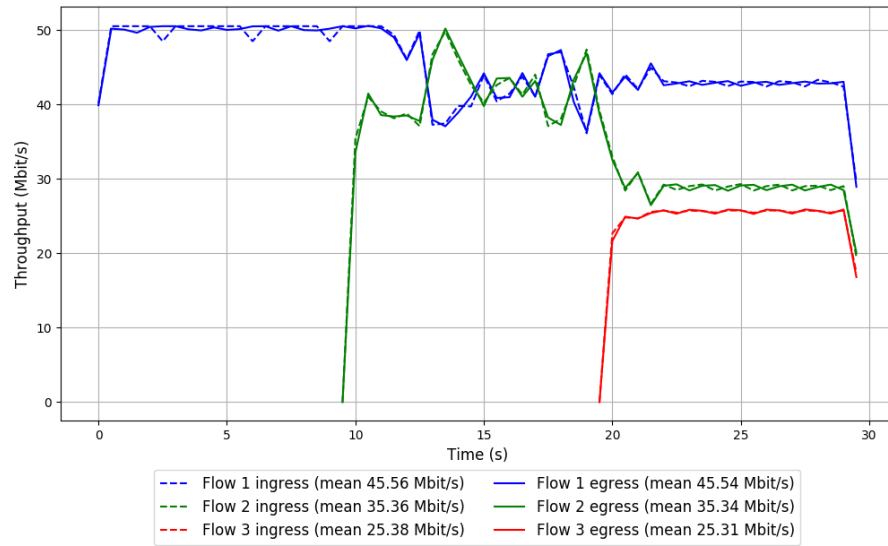


Run 4: Statistics of Sprout

Start at: 2018-01-02 08:19:16
End at: 2018-01-02 08:19:46
Local clock offset: -0.051 ms
Remote clock offset: 0.443 ms

```
# Below is generated by plot.py at 2018-01-02 13:04:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.39 Mbit/s
95th percentile per-packet one-way delay: 20.264 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 45.54 Mbit/s
95th percentile per-packet one-way delay: 17.077 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 20.637 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 23.071 ms
Loss rate: 0.34%
```

Run 4: Report of Sprout — Data Link

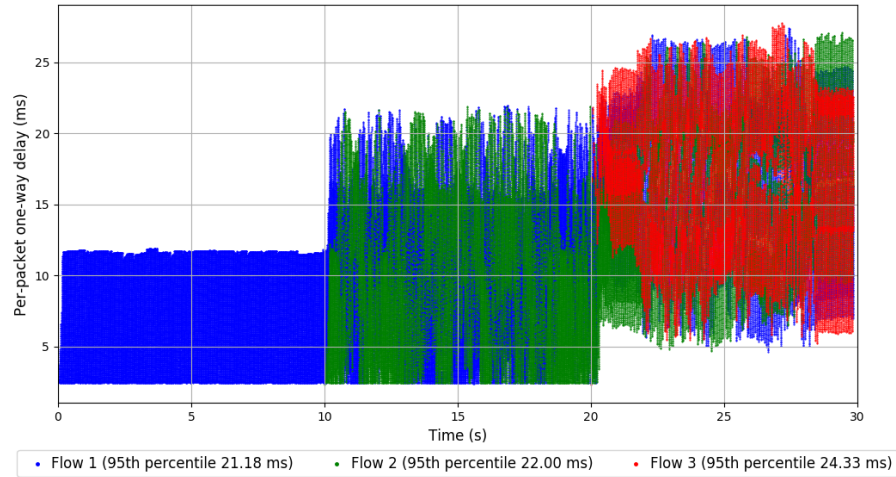
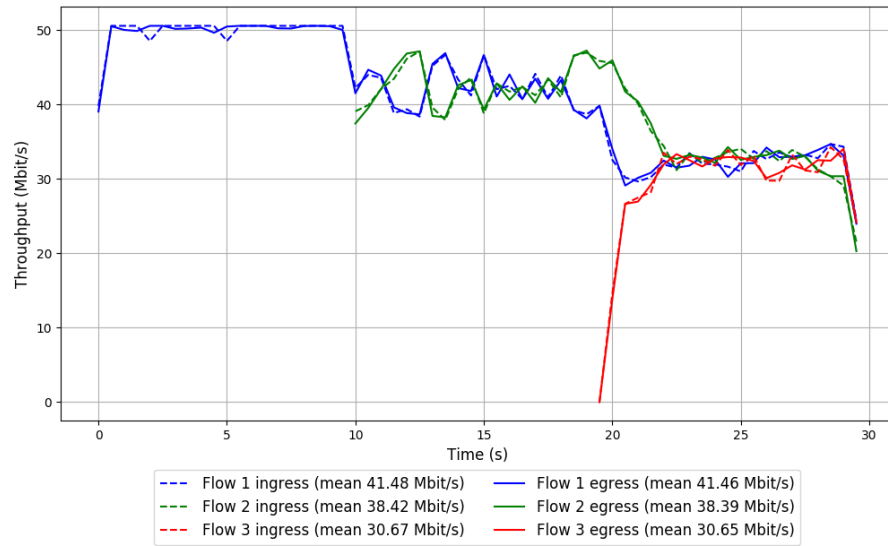


Run 5: Statistics of Sprout

Start at: 2018-01-02 08:36:13
End at: 2018-01-02 08:36:43
Local clock offset: -0.083 ms
Remote clock offset: 0.592 ms

Below is generated by plot.py at 2018-01-02 13:05:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.08 Mbit/s
95th percentile per-packet one-way delay: 22.396 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 41.46 Mbit/s
95th percentile per-packet one-way delay: 21.180 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.39 Mbit/s
95th percentile per-packet one-way delay: 21.999 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 24.328 ms
Loss rate: 0.07%

Run 5: Report of Sprout — Data Link

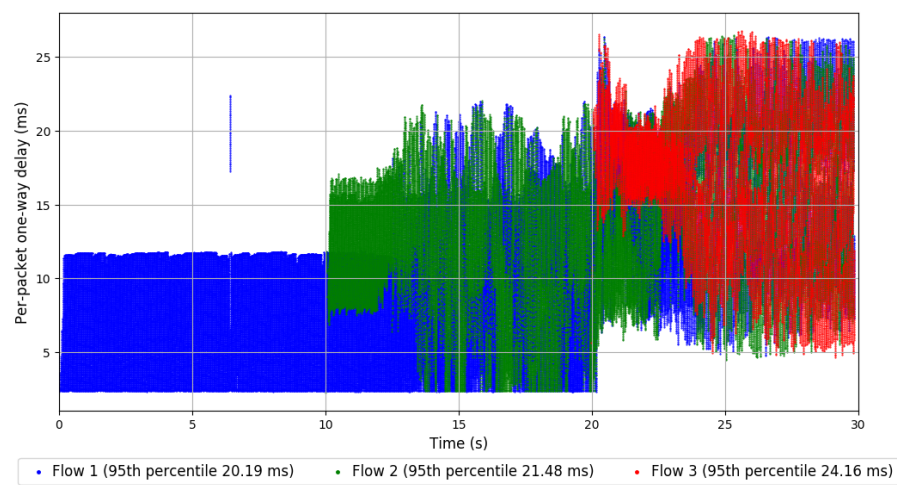
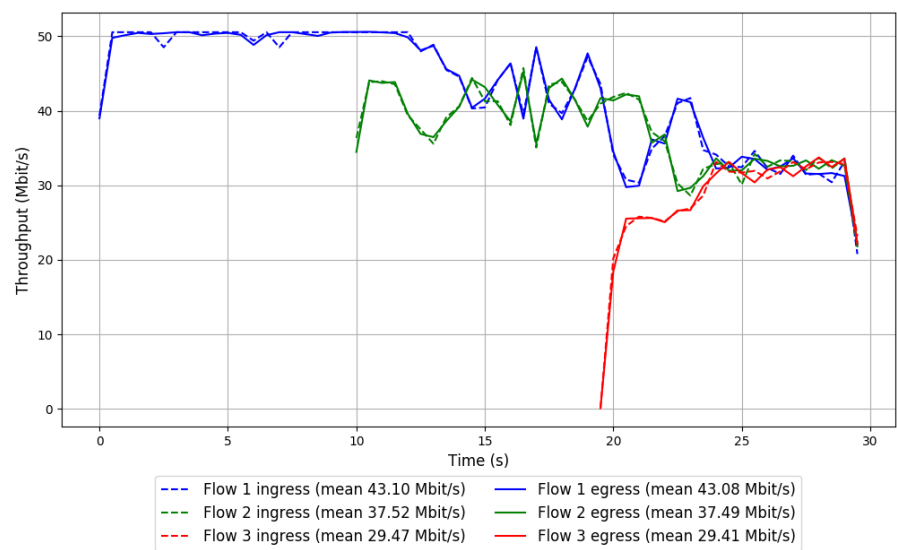


Run 6: Statistics of Sprout

Start at: 2018-01-02 08:53:11
End at: 2018-01-02 08:53:41
Local clock offset: -0.133 ms
Remote clock offset: 0.725 ms

Below is generated by plot.py at 2018-01-02 13:05:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.70 Mbit/s
95th percentile per-packet one-way delay: 21.732 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 43.08 Mbit/s
95th percentile per-packet one-way delay: 20.187 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 37.49 Mbit/s
95th percentile per-packet one-way delay: 21.484 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 29.41 Mbit/s
95th percentile per-packet one-way delay: 24.162 ms
Loss rate: 0.34%

Run 6: Report of Sprout — Data Link

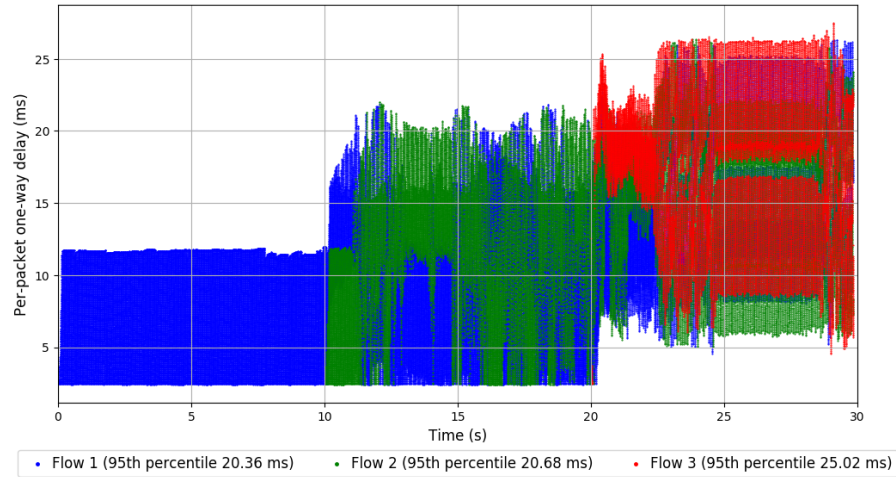
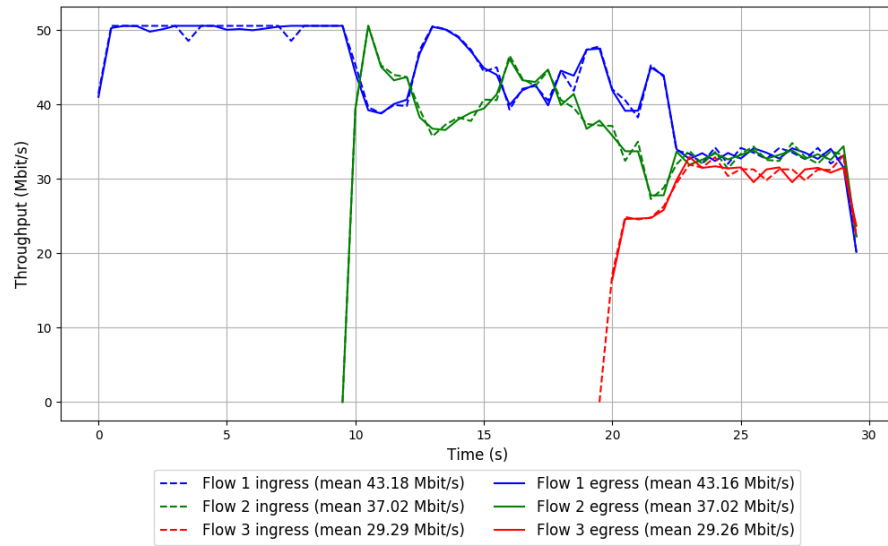


Run 7: Statistics of Sprout

Start at: 2018-01-02 09:10:10
End at: 2018-01-02 09:10:40
Local clock offset: -0.164 ms
Remote clock offset: 0.627 ms

```
# Below is generated by plot.py at 2018-01-02 13:05:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.41 Mbit/s
95th percentile per-packet one-way delay: 21.871 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 43.16 Mbit/s
95th percentile per-packet one-way delay: 20.361 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 20.676 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 25.018 ms
Loss rate: 0.09%
```


Run 7: Report of Sprout — Data Link

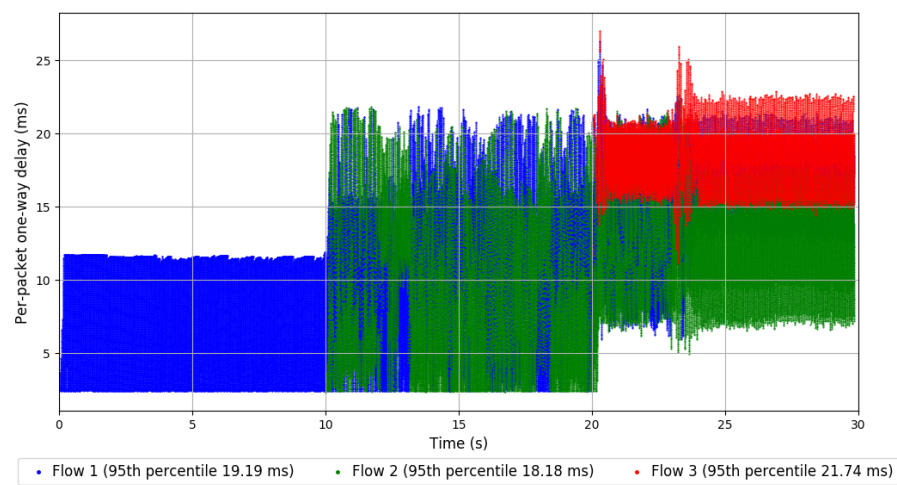
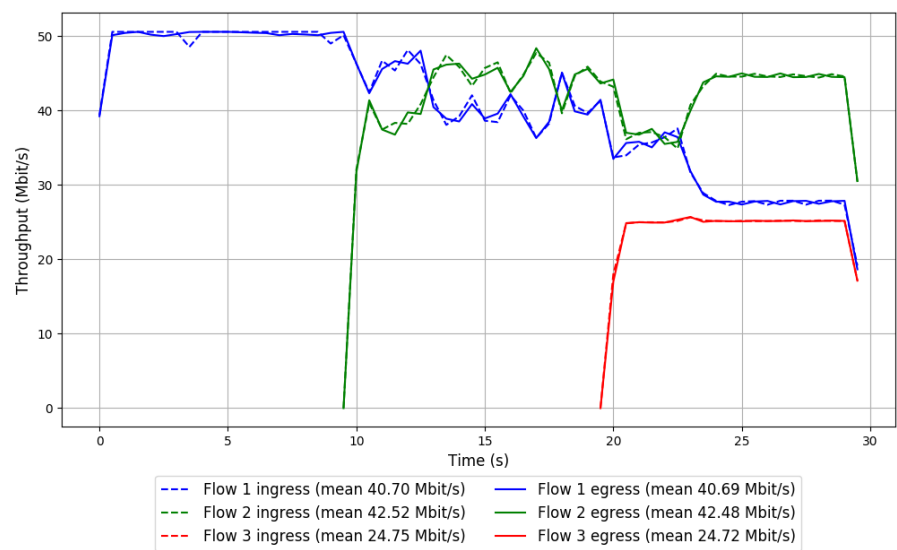


Run 8: Statistics of Sprout

Start at: 2018-01-02 09:27:07
End at: 2018-01-02 09:27:37
Local clock offset: -0.213 ms
Remote clock offset: 0.625 ms

```
# Below is generated by plot.py at 2018-01-02 13:05:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.07 Mbit/s
95th percentile per-packet one-way delay: 19.722 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 19.194 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 42.48 Mbit/s
95th percentile per-packet one-way delay: 18.183 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 21.741 ms
Loss rate: 0.21%
```

Run 8: Report of Sprout — Data Link

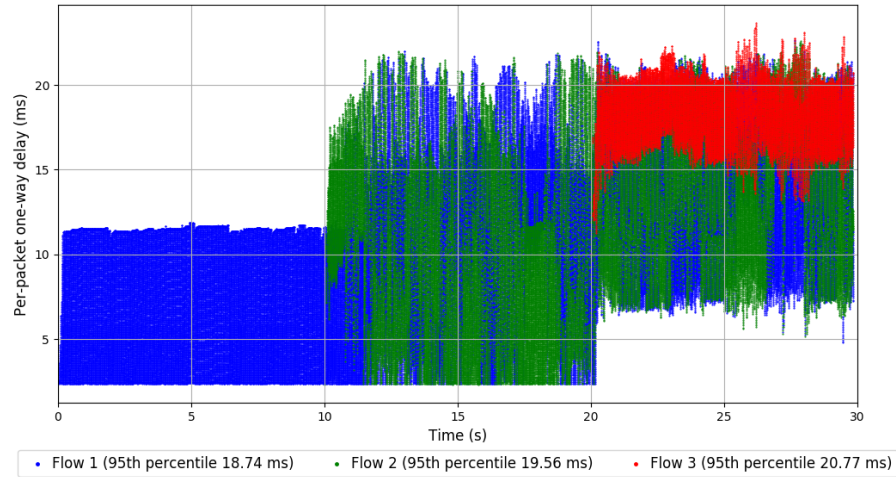
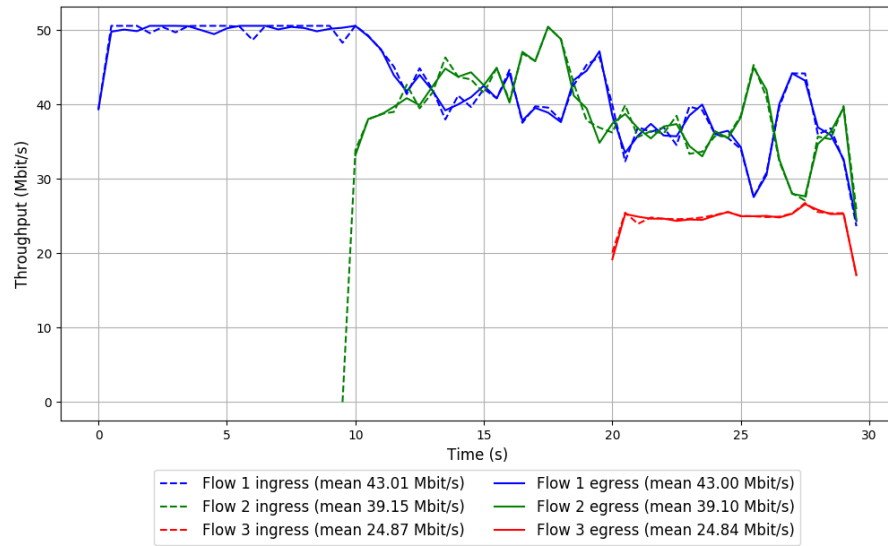


Run 9: Statistics of Sprout

Start at: 2018-01-02 09:44:04
End at: 2018-01-02 09:44:34
Local clock offset: -0.279 ms
Remote clock offset: 0.701 ms

Below is generated by plot.py at 2018-01-02 13:05:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.16 Mbit/s
95th percentile per-packet one-way delay: 19.702 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 43.00 Mbit/s
95th percentile per-packet one-way delay: 18.739 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 19.562 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 20.768 ms
Loss rate: 0.21%

Run 9: Report of Sprout — Data Link

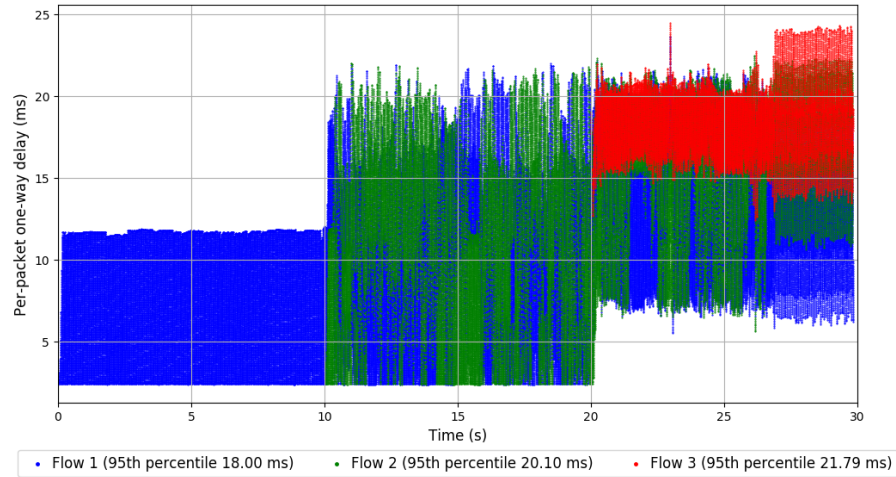
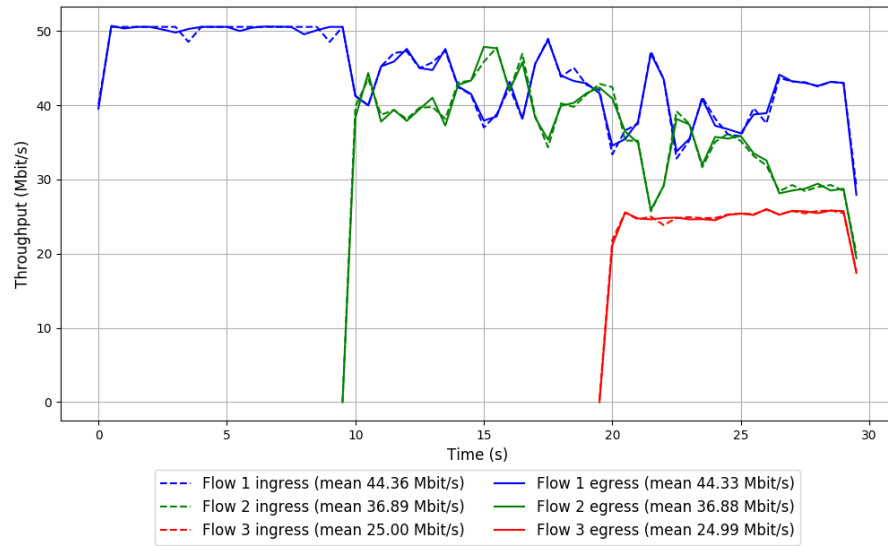


Run 10: Statistics of Sprout

Start at: 2018-01-02 10:01:01
End at: 2018-01-02 10:01:31
Local clock offset: -0.337 ms
Remote clock offset: 0.686 ms

Below is generated by plot.py at 2018-01-02 13:05:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.10 Mbit/s
95th percentile per-packet one-way delay: 19.822 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 44.33 Mbit/s
95th percentile per-packet one-way delay: 17.996 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 36.88 Mbit/s
95th percentile per-packet one-way delay: 20.103 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 24.99 Mbit/s
95th percentile per-packet one-way delay: 21.789 ms
Loss rate: 0.22%

Run 10: Report of Sprout — Data Link

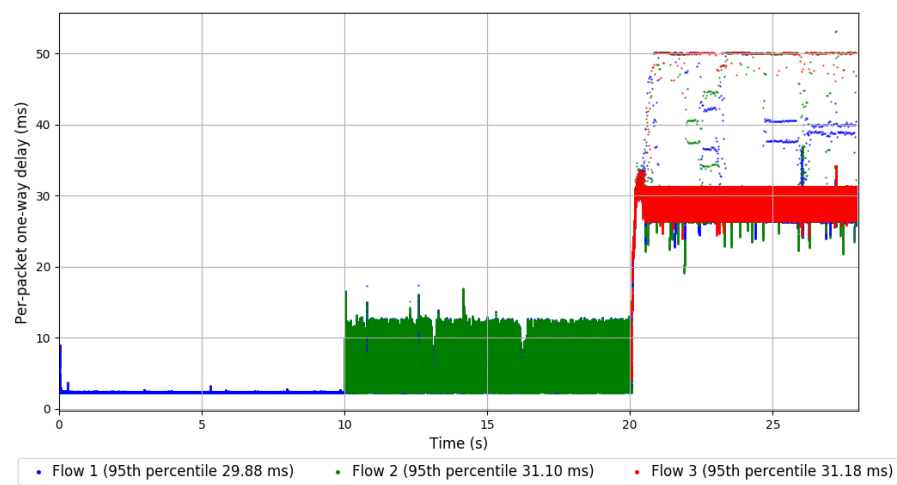
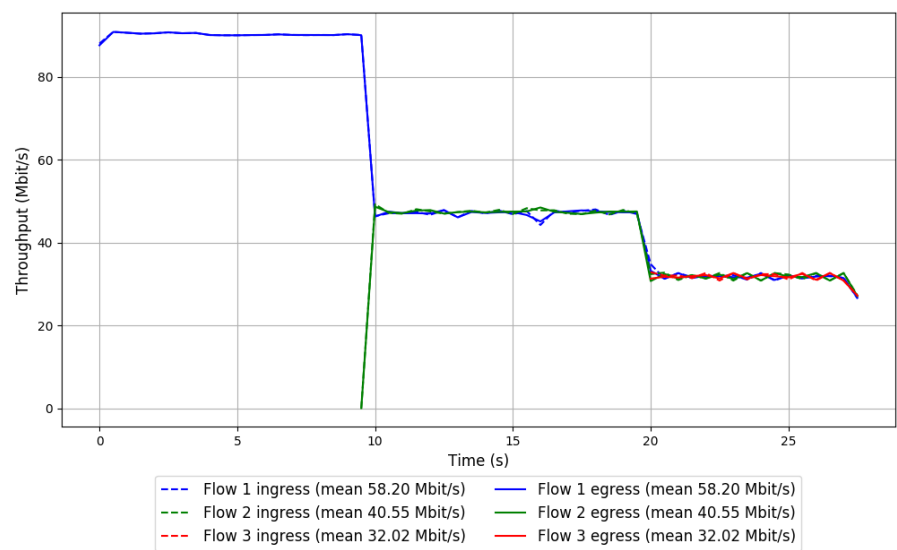


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 07:29:32
End at: 2018-01-02 07:30:02
Local clock offset: 0.027 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-01-02 13:07:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.24 Mbit/s
95th percentile per-packet one-way delay: 31.067 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.20 Mbit/s
95th percentile per-packet one-way delay: 29.880 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.55 Mbit/s
95th percentile per-packet one-way delay: 31.096 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 32.02 Mbit/s
95th percentile per-packet one-way delay: 31.179 ms
Loss rate: 0.36%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 07:46:28

End at: 2018-01-02 07:46:58

Local clock offset: 0.043 ms

Remote clock offset: 0.065 ms

Below is generated by plot.py at 2018-01-02 13:07:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.95 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 57.85 Mbit/s

95th percentile per-packet one-way delay: 30.546 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.58 Mbit/s

95th percentile per-packet one-way delay: 31.239 ms

Loss rate: 0.13%

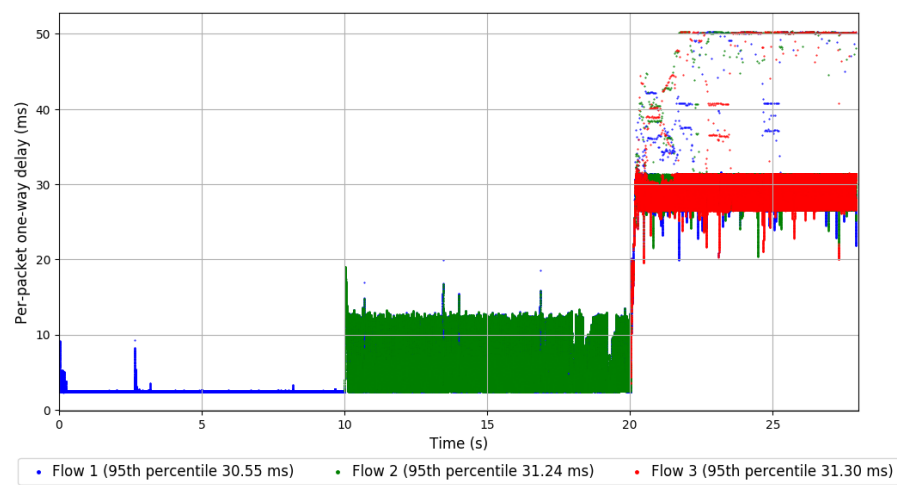
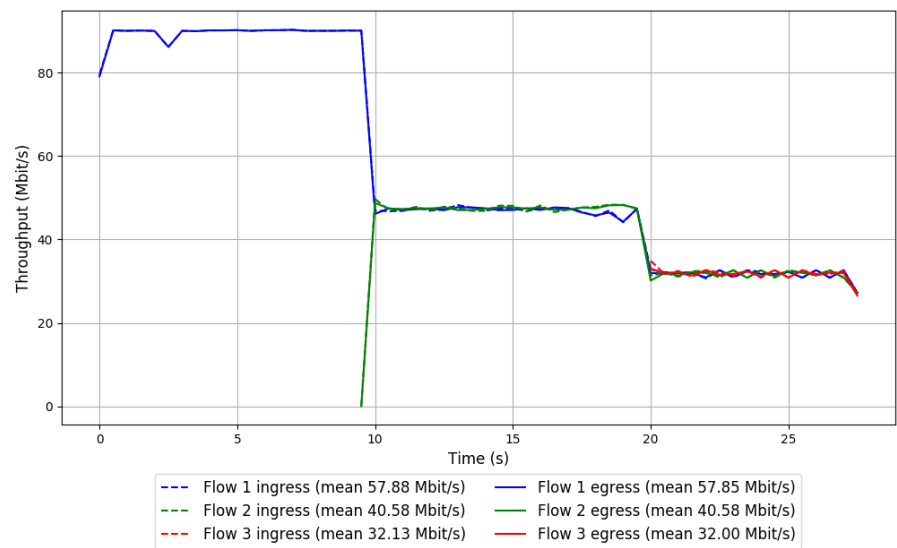
-- Flow 3:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 31.297 ms

Loss rate: 0.53%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 08:03:25

End at: 2018-01-02 08:03:56

Local clock offset: -0.099 ms

Remote clock offset: 0.296 ms

Below is generated by plot.py at 2018-01-02 13:07:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 31.083 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.25 Mbit/s

95th percentile per-packet one-way delay: 30.324 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.47 Mbit/s

95th percentile per-packet one-way delay: 31.096 ms

Loss rate: 0.13%

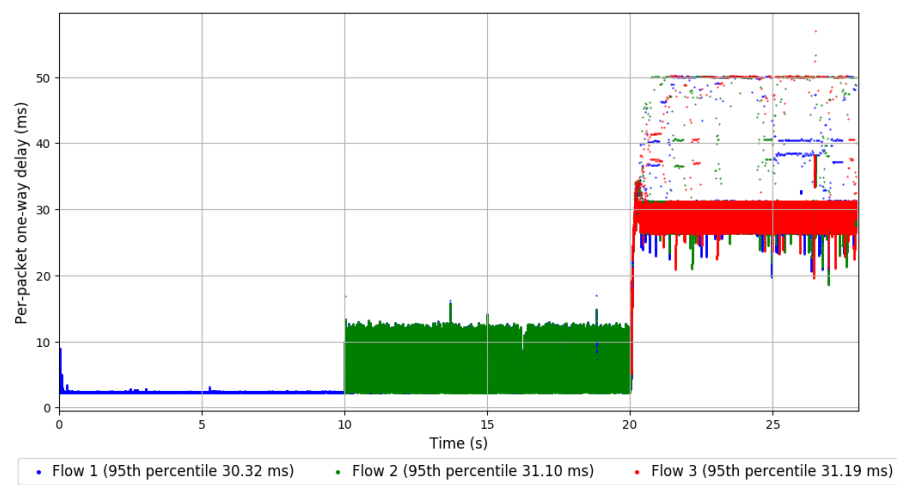
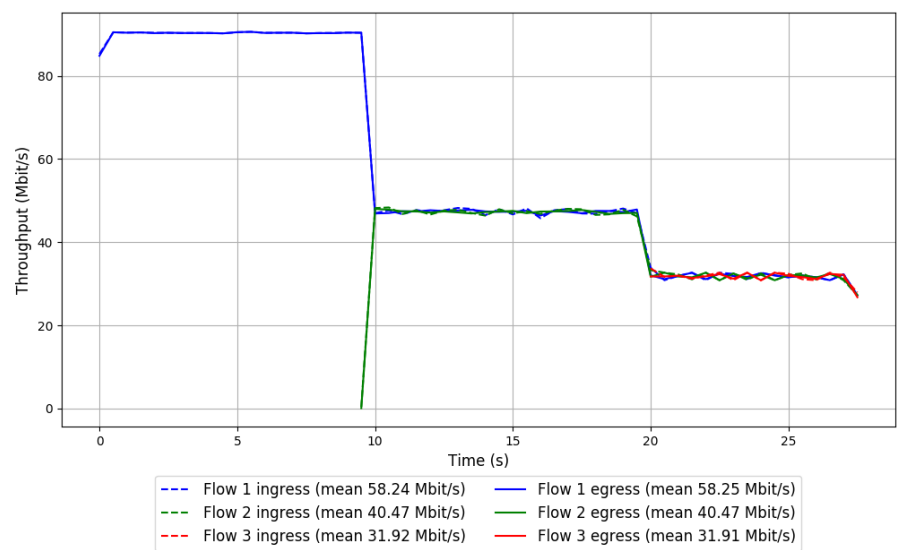
-- Flow 3:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 31.186 ms

Loss rate: 0.46%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 08:20:22

End at: 2018-01-02 08:20:52

Local clock offset: -0.077 ms

Remote clock offset: 0.468 ms

Below is generated by plot.py at 2018-01-02 13:07:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.78 Mbit/s

95th percentile per-packet one-way delay: 31.078 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.79 Mbit/s

95th percentile per-packet one-way delay: 29.637 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.39 Mbit/s

95th percentile per-packet one-way delay: 31.093 ms

Loss rate: 0.13%

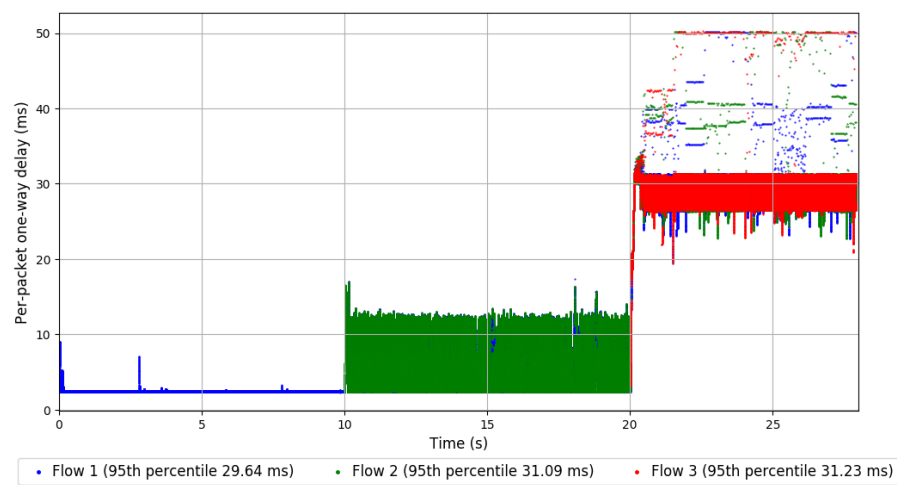
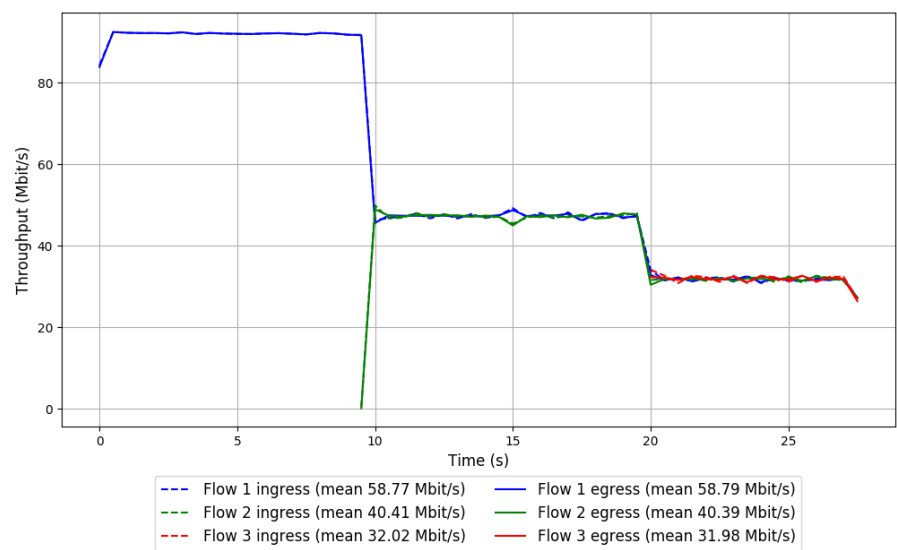
-- Flow 3:

Average throughput: 31.98 Mbit/s

95th percentile per-packet one-way delay: 31.235 ms

Loss rate: 0.54%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 08:37:20

End at: 2018-01-02 08:37:50

Local clock offset: -0.115 ms

Remote clock offset: 0.591 ms

Below is generated by plot.py at 2018-01-02 13:07:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.10 Mbit/s

95th percentile per-packet one-way delay: 31.142 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.04 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 31.120 ms

Loss rate: 0.16%

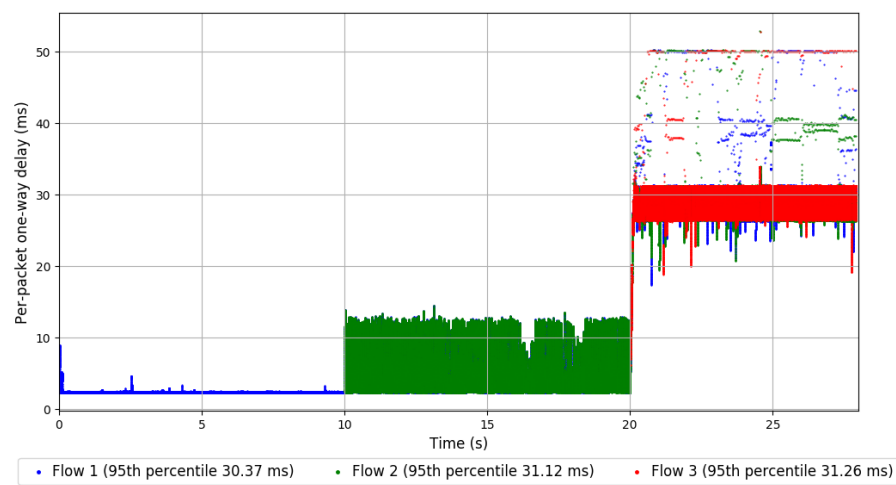
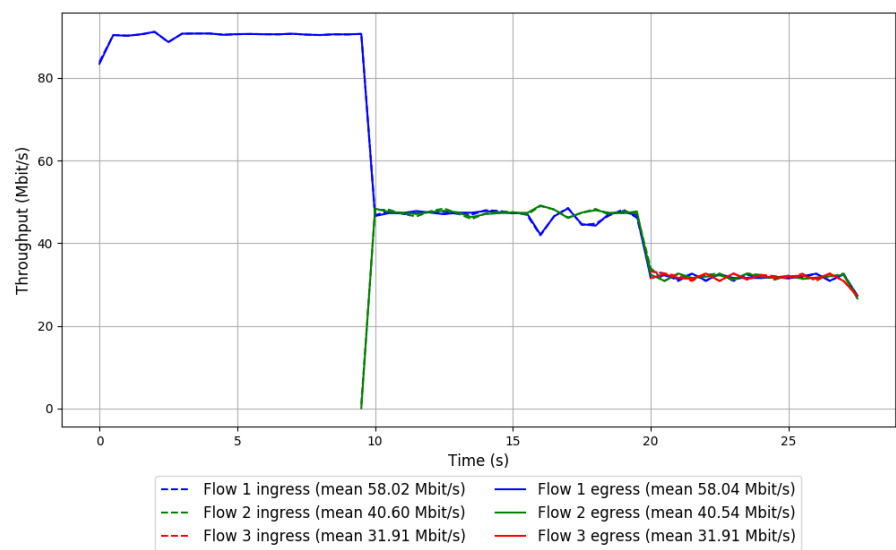
-- Flow 3:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 31.258 ms

Loss rate: 0.36%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 08:54:17

End at: 2018-01-02 08:54:47

Local clock offset: -0.128 ms

Remote clock offset: 0.727 ms

Below is generated by plot.py at 2018-01-02 13:07:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 31.087 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.71 Mbit/s

95th percentile per-packet one-way delay: 30.454 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.55 Mbit/s

95th percentile per-packet one-way delay: 31.095 ms

Loss rate: 0.13%

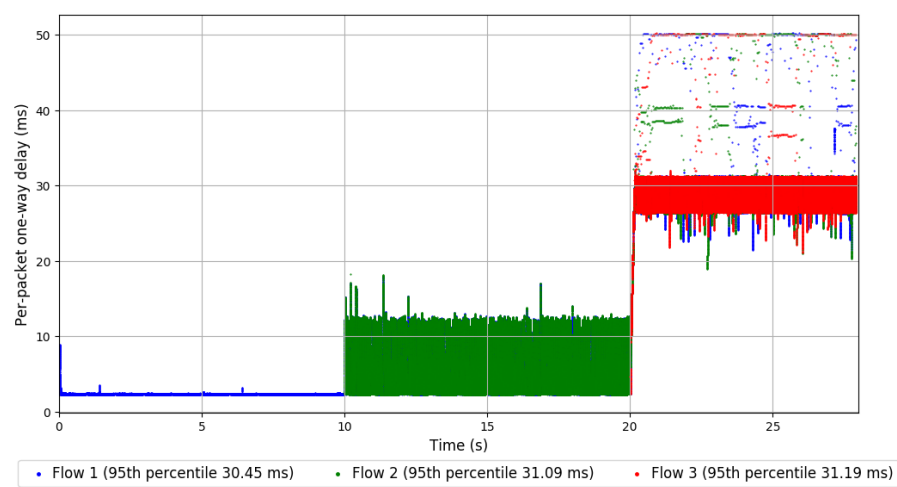
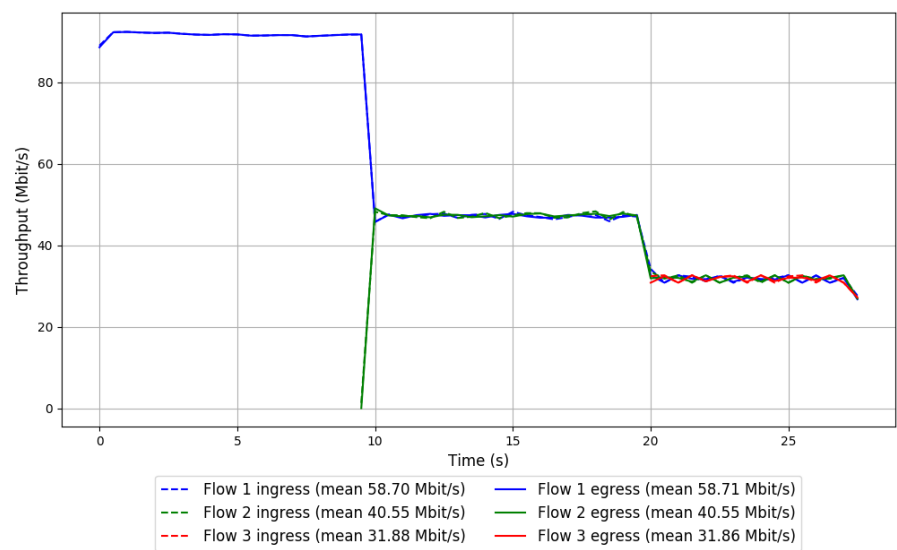
-- Flow 3:

Average throughput: 31.86 Mbit/s

95th percentile per-packet one-way delay: 31.189 ms

Loss rate: 0.36%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 09:11:17

End at: 2018-01-02 09:11:47

Local clock offset: -0.194 ms

Remote clock offset: 0.692 ms

Below is generated by plot.py at 2018-01-02 13:08:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.66 Mbit/s

95th percentile per-packet one-way delay: 31.086 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 57.69 Mbit/s

95th percentile per-packet one-way delay: 30.927 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.43 Mbit/s

95th percentile per-packet one-way delay: 31.095 ms

Loss rate: 0.15%

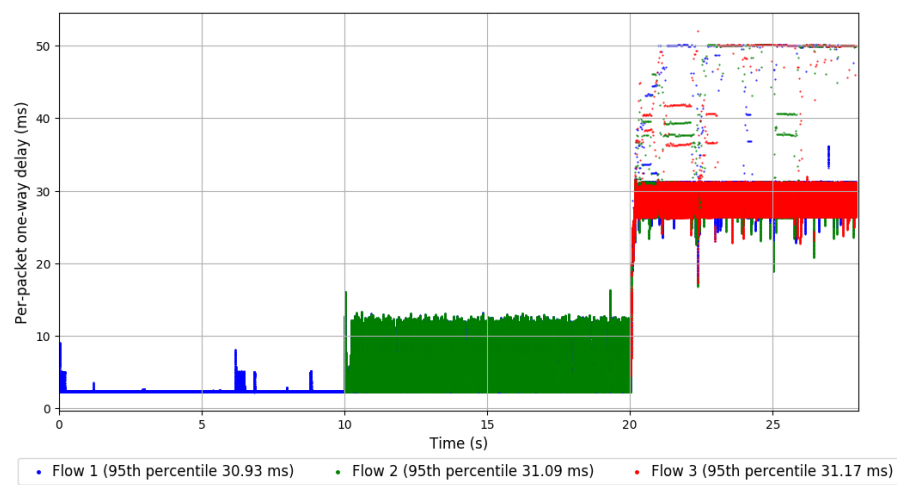
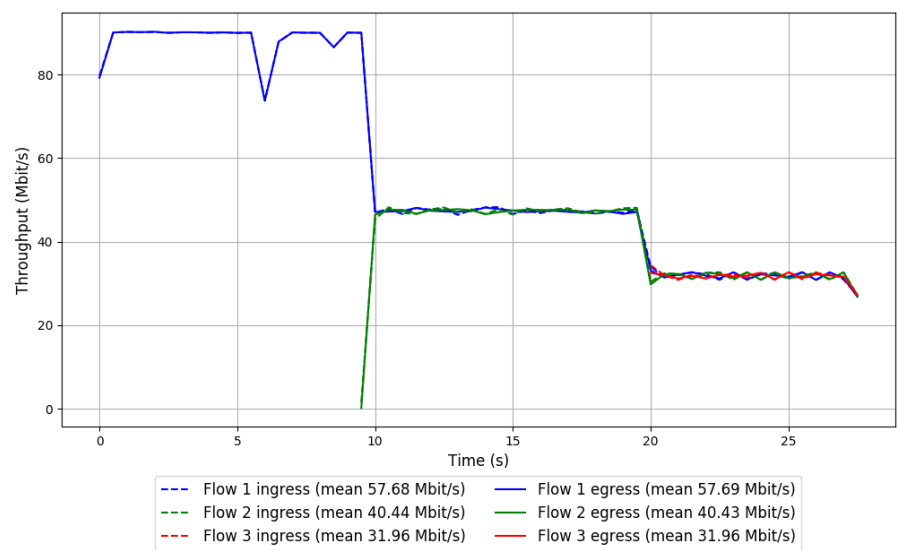
-- Flow 3:

Average throughput: 31.96 Mbit/s

95th percentile per-packet one-way delay: 31.168 ms

Loss rate: 0.36%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 09:28:14

End at: 2018-01-02 09:28:44

Local clock offset: -0.264 ms

Remote clock offset: 0.703 ms

Below is generated by plot.py at 2018-01-02 13:08:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.16 Mbit/s

95th percentile per-packet one-way delay: 31.049 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 30.267 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 31.089 ms

Loss rate: 0.13%

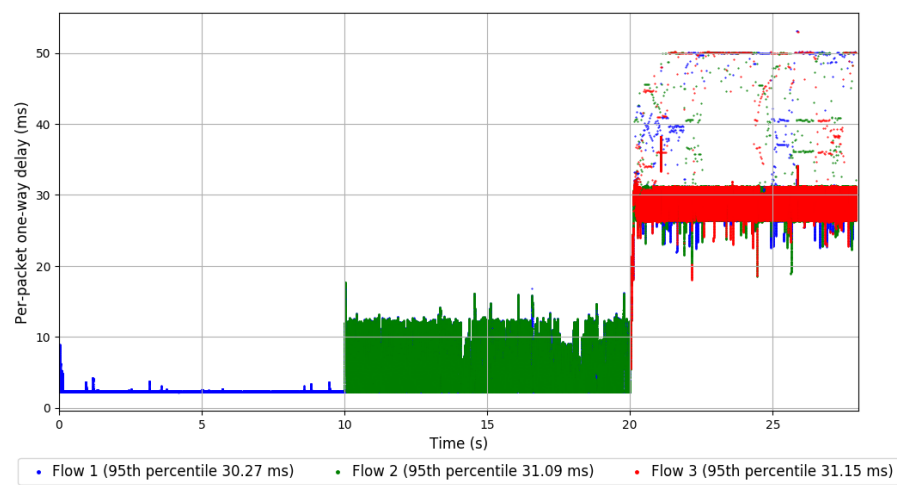
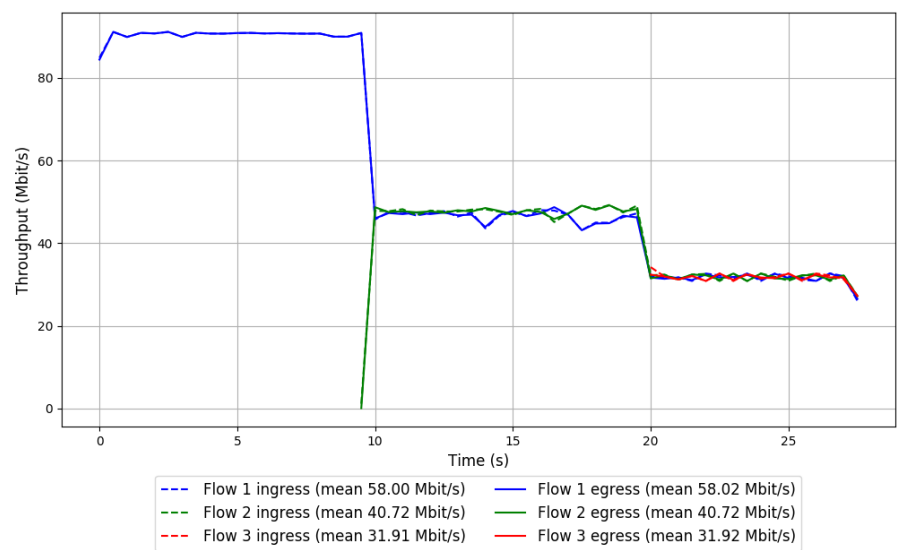
-- Flow 3:

Average throughput: 31.92 Mbit/s

95th percentile per-packet one-way delay: 31.151 ms

Loss rate: 0.36%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 09:45:11

End at: 2018-01-02 09:45:41

Local clock offset: -0.354 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-01-02 13:09:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.73 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.73 Mbit/s

95th percentile per-packet one-way delay: 30.398 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.47 Mbit/s

95th percentile per-packet one-way delay: 31.047 ms

Loss rate: 0.13%

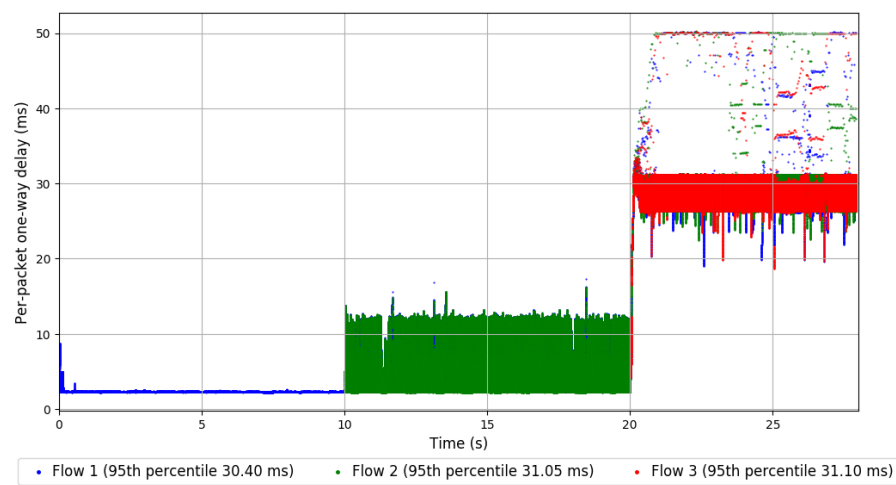
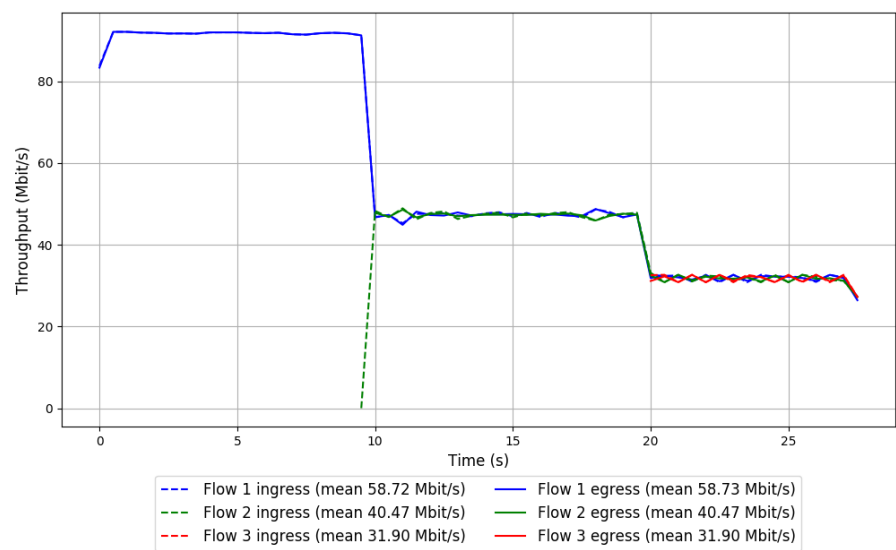
-- Flow 3:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 31.101 ms

Loss rate: 0.36%

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



Run 10: Statistics of TaoVA-100x

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

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

Local clock offset: -0.417 ms

Remote clock offset: 0.685 ms

Below is generated by plot.py at 2018-01-02 13:09:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.57 Mbit/s

95th percentile per-packet one-way delay: 31.092 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.60 Mbit/s

95th percentile per-packet one-way delay: 30.214 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.41 Mbit/s

95th percentile per-packet one-way delay: 31.116 ms

Loss rate: 0.13%

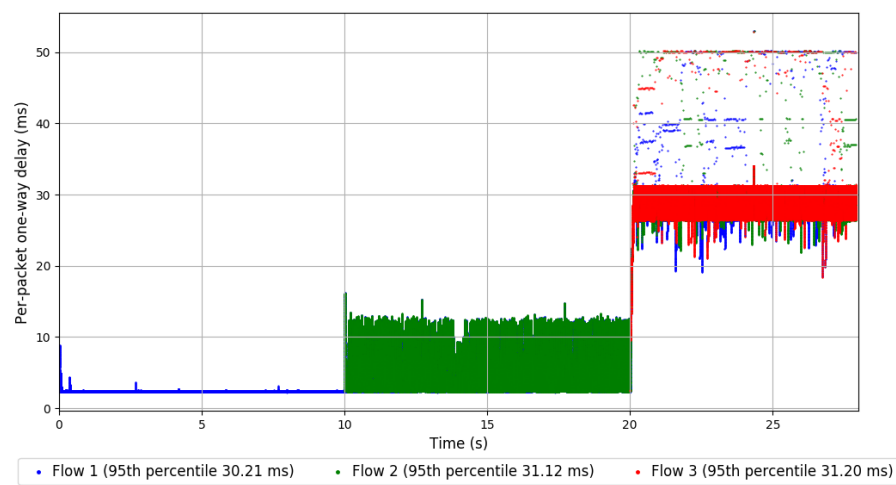
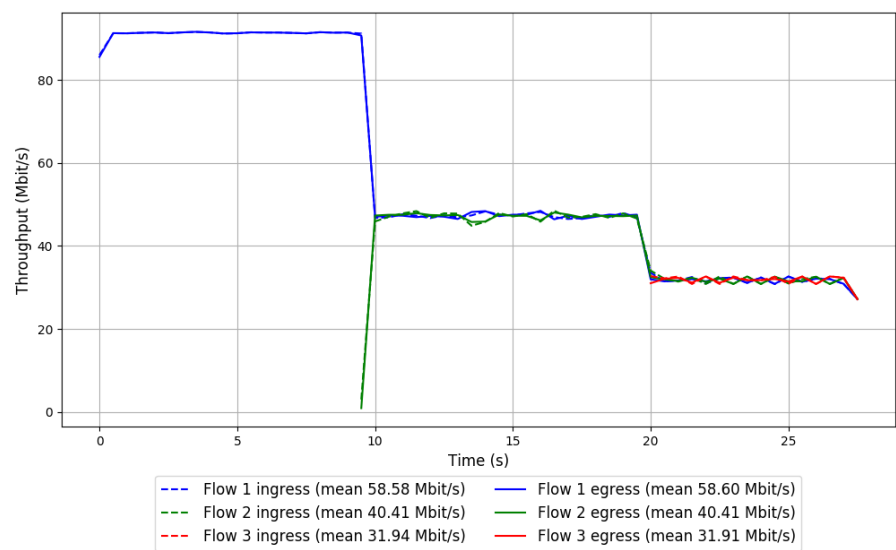
-- Flow 3:

Average throughput: 31.91 Mbit/s

95th percentile per-packet one-way delay: 31.202 ms

Loss rate: 0.38%

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

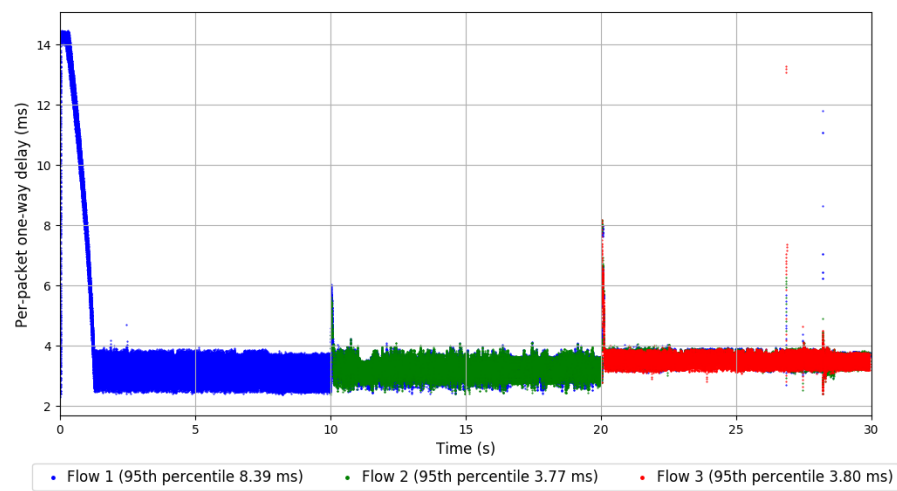
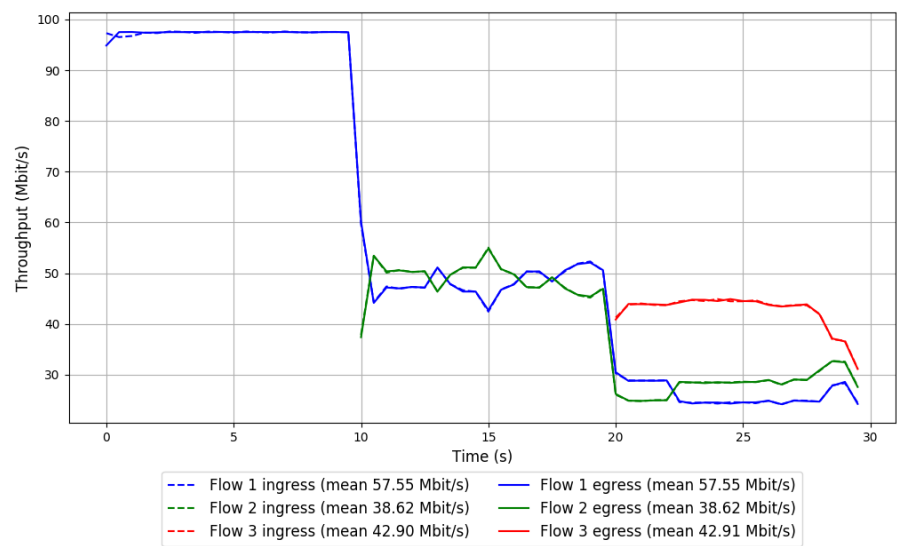


Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 07:30:43
End at: 2018-01-02 07:31:13
Local clock offset: 0.06 ms
Remote clock offset: -0.191 ms

Below is generated by plot.py at 2018-01-02 13:09:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 3.880 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 57.55 Mbit/s
95th percentile per-packet one-way delay: 8.392 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 3.767 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 42.91 Mbit/s
95th percentile per-packet one-way delay: 3.797 ms
Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 07:47:40

End at: 2018-01-02 07:48:10

Local clock offset: 0.003 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-01-02 13:09:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.20 Mbit/s

95th percentile per-packet one-way delay: 4.907 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.23 Mbit/s

95th percentile per-packet one-way delay: 6.927 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.49 Mbit/s

95th percentile per-packet one-way delay: 4.759 ms

Loss rate: 0.01%

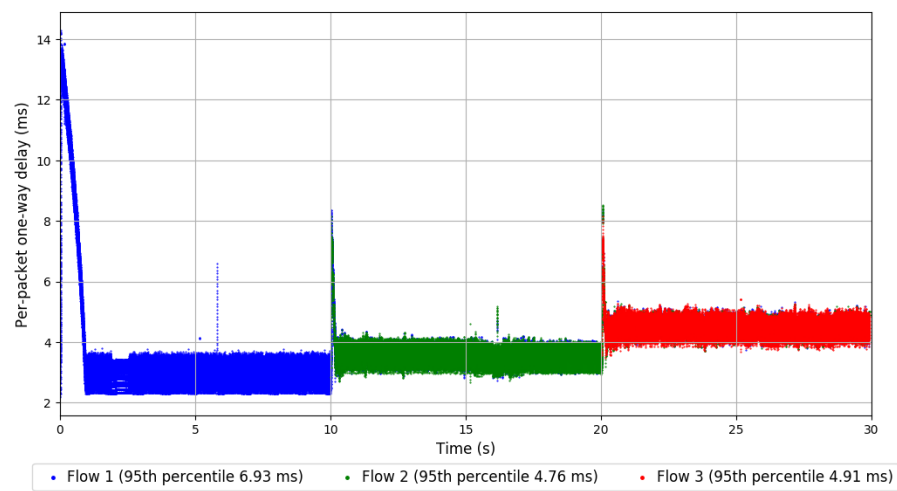
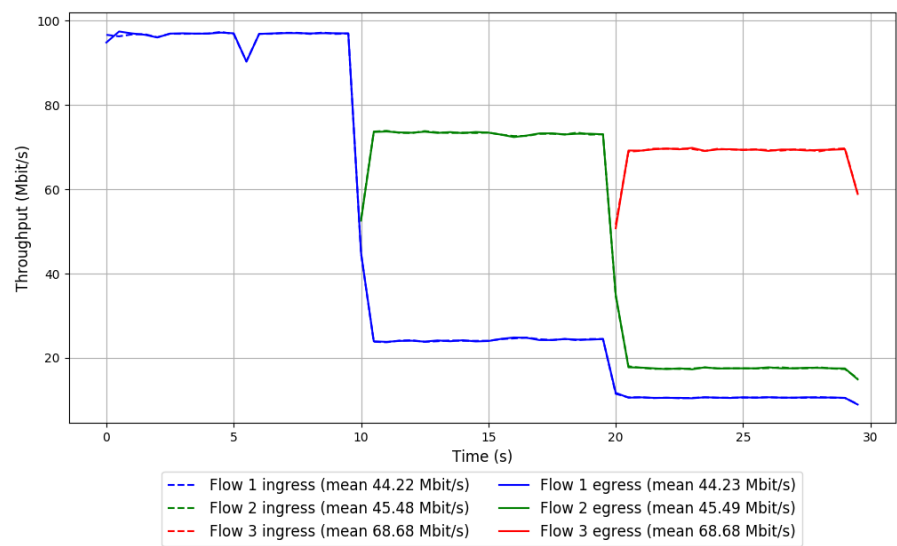
-- Flow 3:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 4.909 ms

Loss rate: 0.07%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 08:04:37

End at: 2018-01-02 08:05:07

Local clock offset: -0.014 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-01-02 13:09:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.48 Mbit/s

95th percentile per-packet one-way delay: 5.010 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 45.48 Mbit/s

95th percentile per-packet one-way delay: 7.292 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 4.805 ms

Loss rate: 0.02%

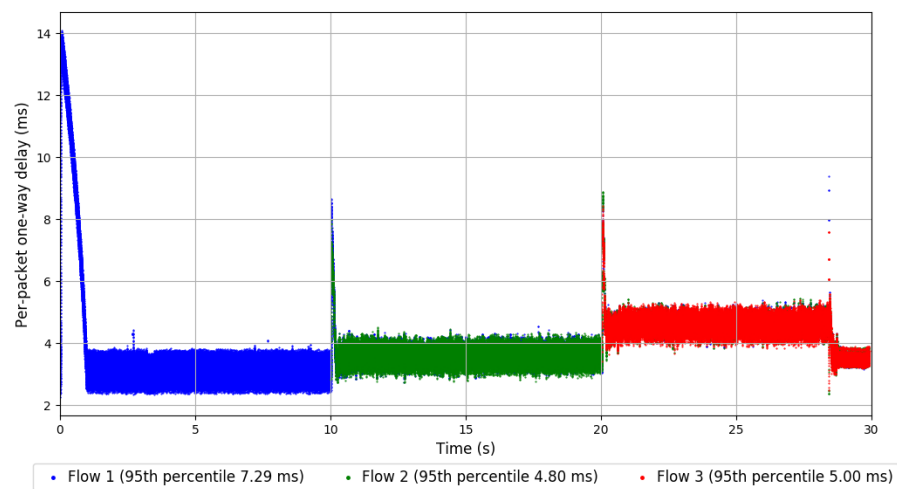
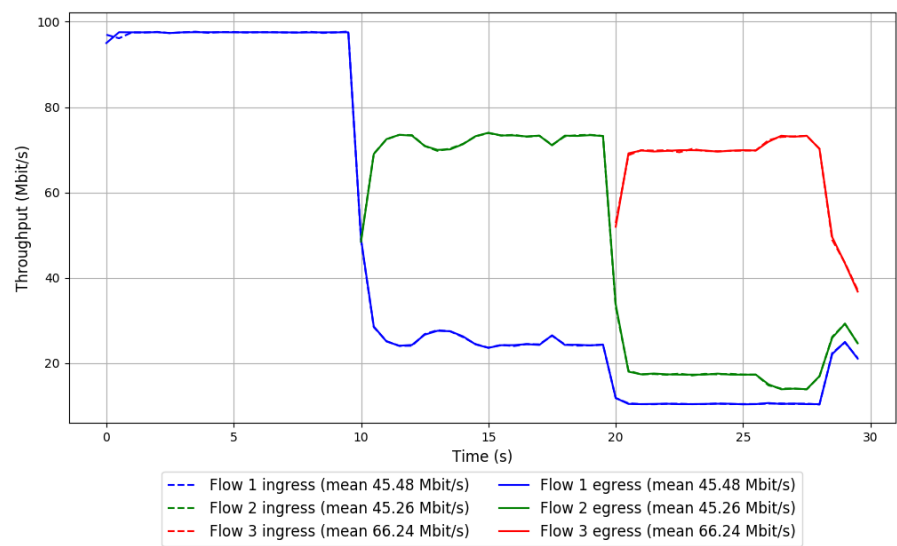
-- Flow 3:

Average throughput: 66.24 Mbit/s

95th percentile per-packet one-way delay: 5.005 ms

Loss rate: 0.04%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 08:21:34

End at: 2018-01-02 08:22:04

Local clock offset: -0.063 ms

Remote clock offset: 0.578 ms

Below is generated by plot.py at 2018-01-02 13:09:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.37 Mbit/s

95th percentile per-packet one-way delay: 4.198 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 55.11 Mbit/s

95th percentile per-packet one-way delay: 5.664 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 34.37 Mbit/s

95th percentile per-packet one-way delay: 4.116 ms

Loss rate: 0.03%

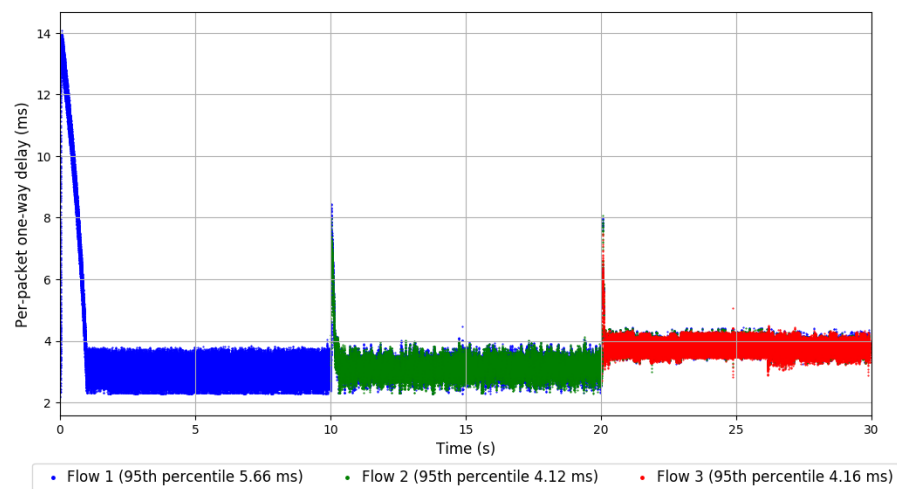
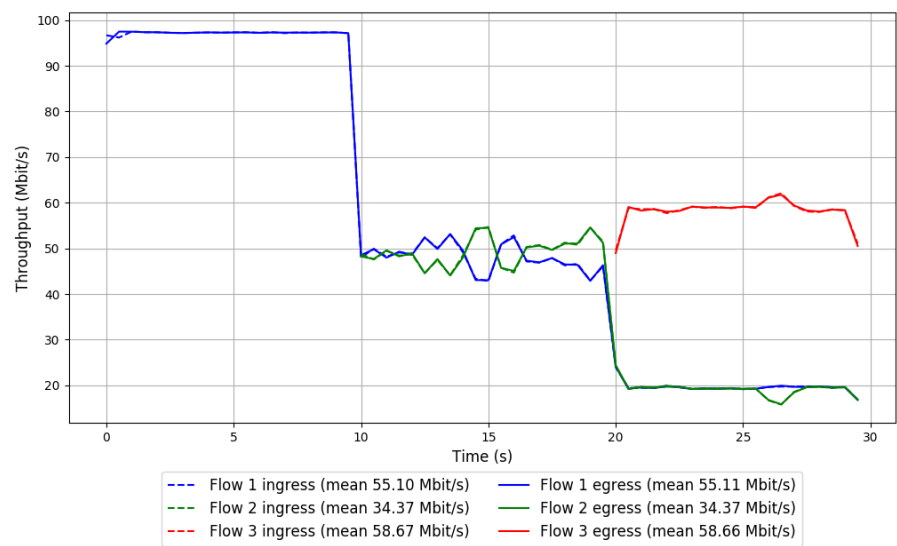
-- Flow 3:

Average throughput: 58.66 Mbit/s

95th percentile per-packet one-way delay: 4.159 ms

Loss rate: 0.06%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

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

End at: 2018-01-02 08:39:01

Local clock offset: -0.182 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-01-02 13:09:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 4.476 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.71 Mbit/s

95th percentile per-packet one-way delay: 8.852 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 4.366 ms

Loss rate: 0.02%

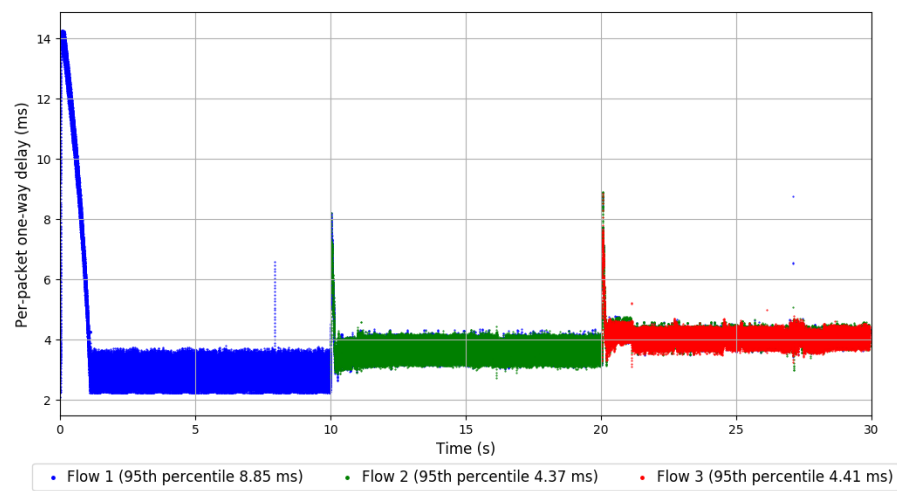
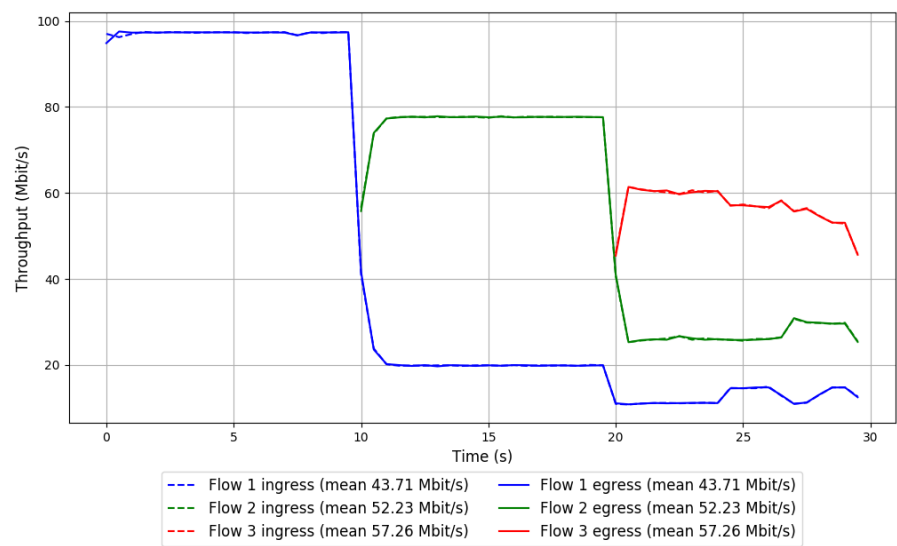
-- Flow 3:

Average throughput: 57.26 Mbit/s

95th percentile per-packet one-way delay: 4.414 ms

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 08:55:29

End at: 2018-01-02 08:55:59

Local clock offset: -0.215 ms

Remote clock offset: 0.724 ms

Below is generated by plot.py at 2018-01-02 13:09:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 4.716 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 41.29 Mbit/s

95th percentile per-packet one-way delay: 4.505 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 55.81 Mbit/s

95th percentile per-packet one-way delay: 4.670 ms

Loss rate: 0.01%

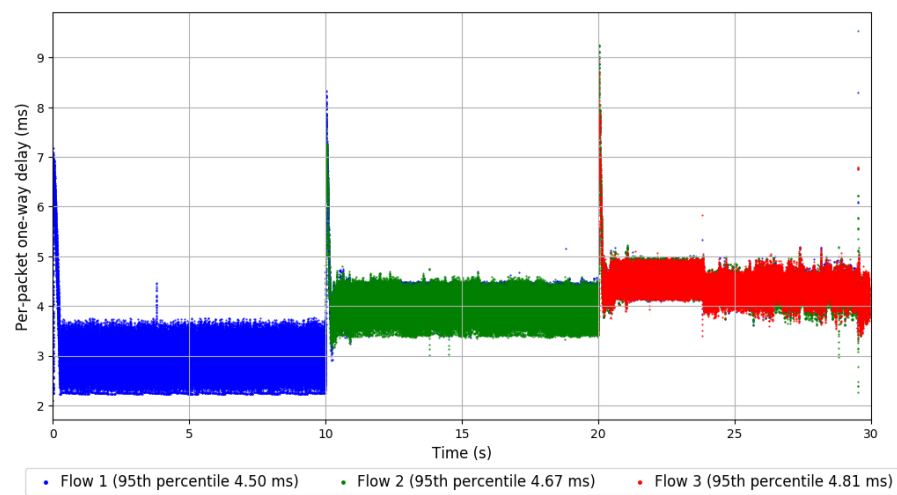
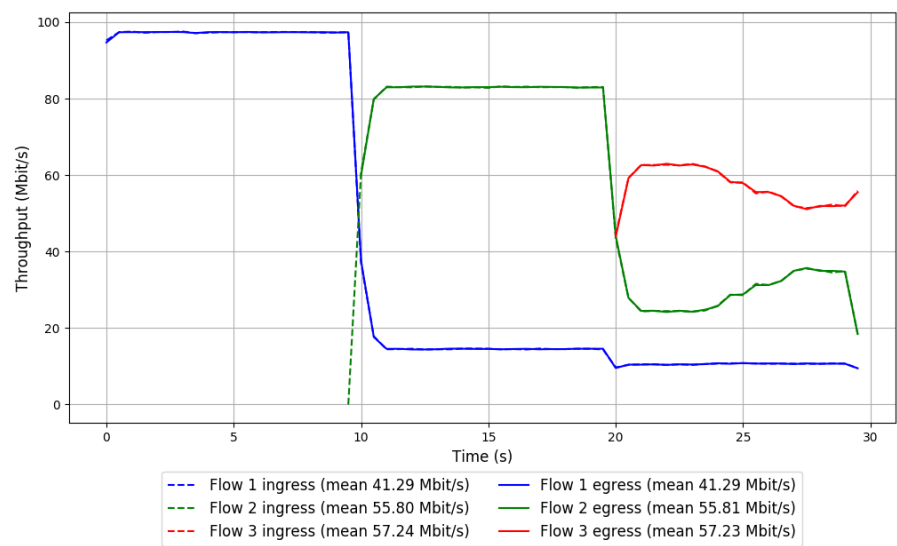
-- Flow 3:

Average throughput: 57.23 Mbit/s

95th percentile per-packet one-way delay: 4.810 ms

Loss rate: 0.08%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 09:12:28

End at: 2018-01-02 09:12:58

Local clock offset: -0.213 ms

Remote clock offset: 0.696 ms

Below is generated by plot.py at 2018-01-02 13:10:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 4.640 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 4.401 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 50.02 Mbit/s

95th percentile per-packet one-way delay: 4.555 ms

Loss rate: 0.02%

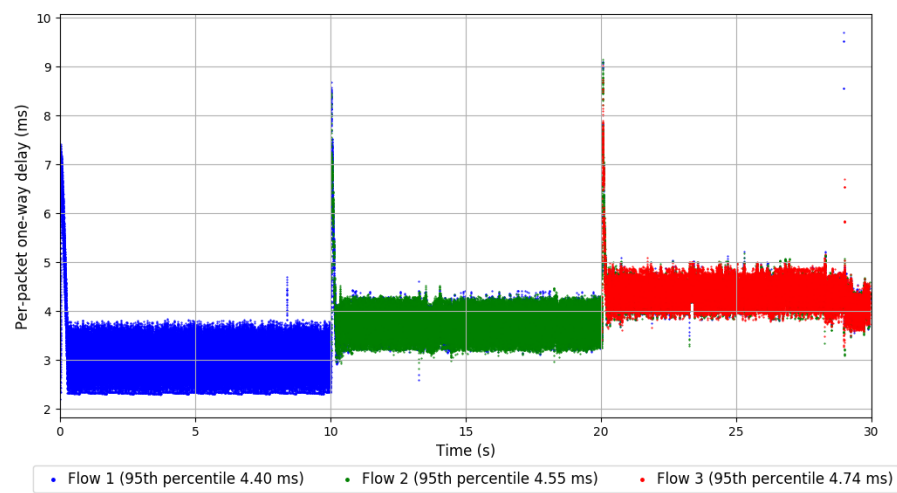
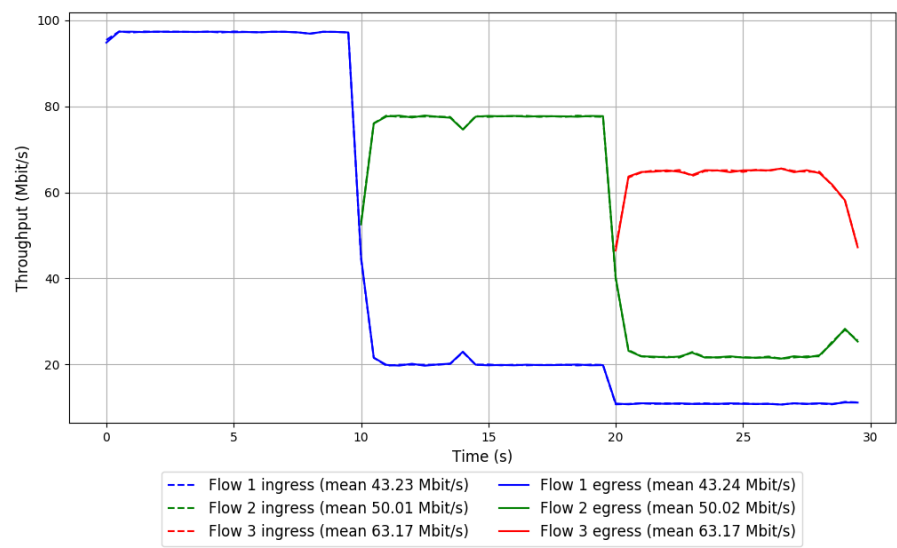
-- Flow 3:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 4.740 ms

Loss rate: 0.05%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 09:29:25

End at: 2018-01-02 09:29:55

Local clock offset: -0.235 ms

Remote clock offset: 0.686 ms

Below is generated by plot.py at 2018-01-02 13:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 4.468 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 45.42 Mbit/s

95th percentile per-packet one-way delay: 7.907 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 48.39 Mbit/s

95th percentile per-packet one-way delay: 4.354 ms

Loss rate: 0.01%

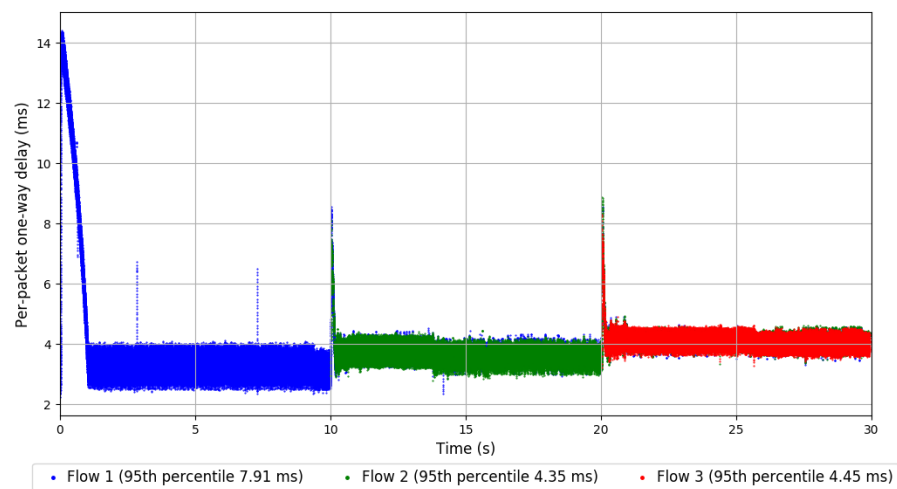
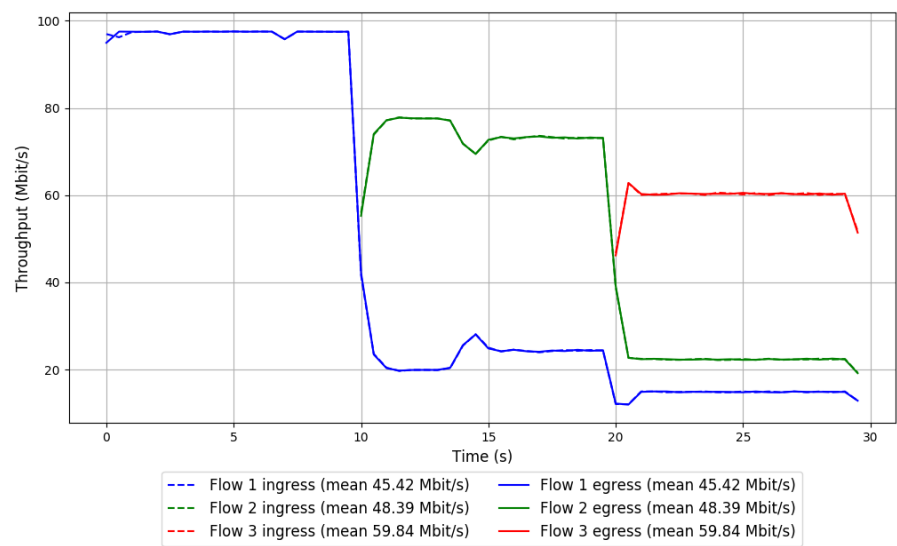
-- Flow 3:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 4.446 ms

Loss rate: 0.06%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 09:46:23

End at: 2018-01-02 09:46:53

Local clock offset: -0.336 ms

Remote clock offset: 0.644 ms

Below is generated by plot.py at 2018-01-02 13:10:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 4.391 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 45.29 Mbit/s

95th percentile per-packet one-way delay: 6.719 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 4.307 ms

Loss rate: 0.02%

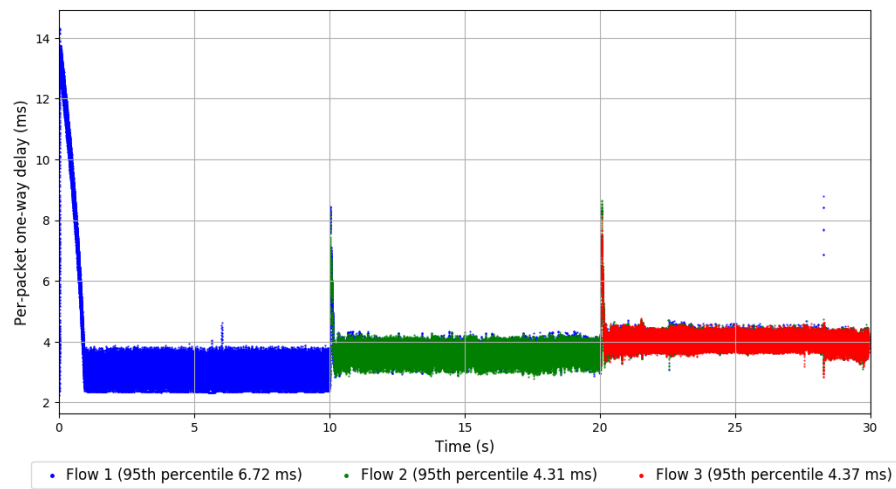
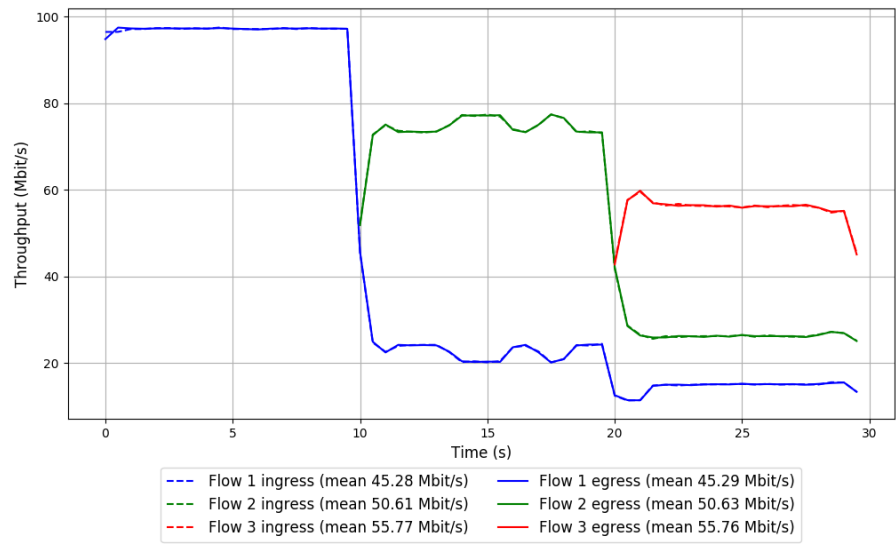
-- Flow 3:

Average throughput: 55.76 Mbit/s

95th percentile per-packet one-way delay: 4.368 ms

Loss rate: 0.05%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 10:03:19

End at: 2018-01-02 10:03:50

Local clock offset: -0.344 ms

Remote clock offset: 0.777 ms

Below is generated by plot.py at 2018-01-02 13:10:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 4.525 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 53.62 Mbit/s

95th percentile per-packet one-way delay: 6.899 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 33.33 Mbit/s

95th percentile per-packet one-way delay: 4.385 ms

Loss rate: 0.02%

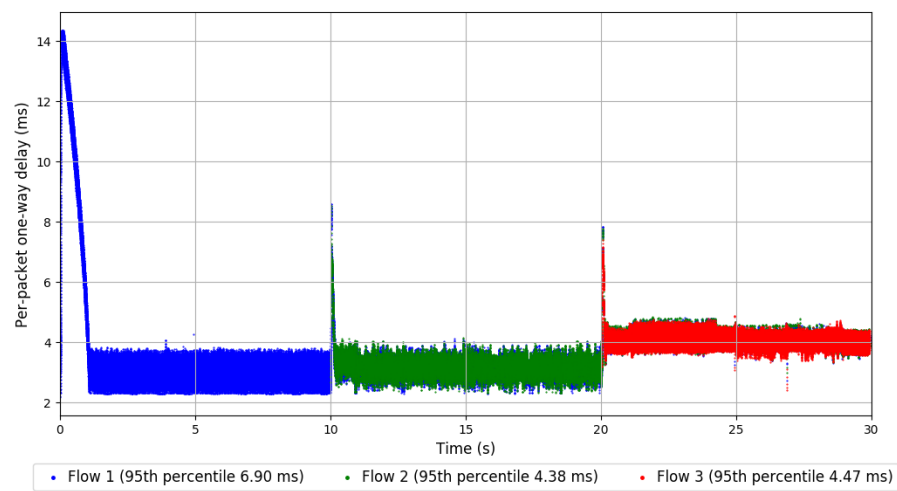
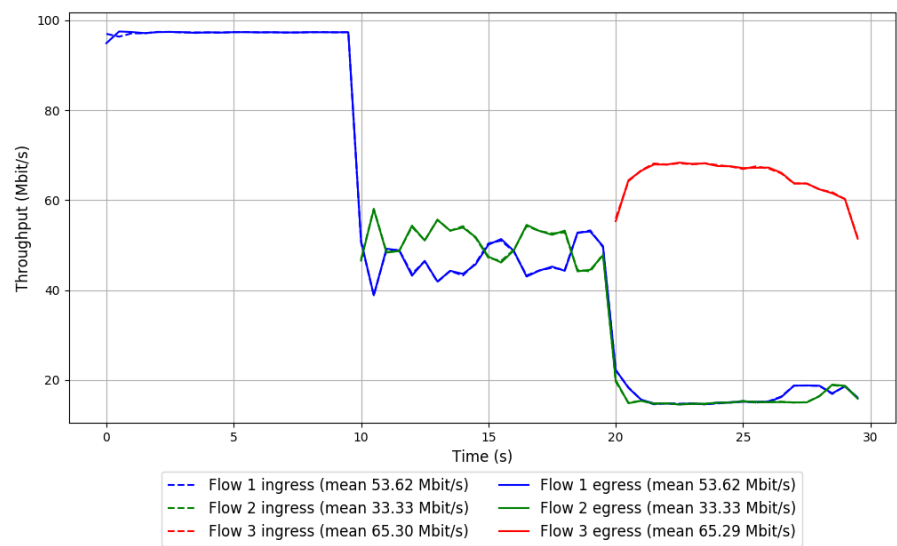
-- Flow 3:

Average throughput: 65.29 Mbit/s

95th percentile per-packet one-way delay: 4.471 ms

Loss rate: 0.06%

Run 10: Report of TCP Vegas — Data Link

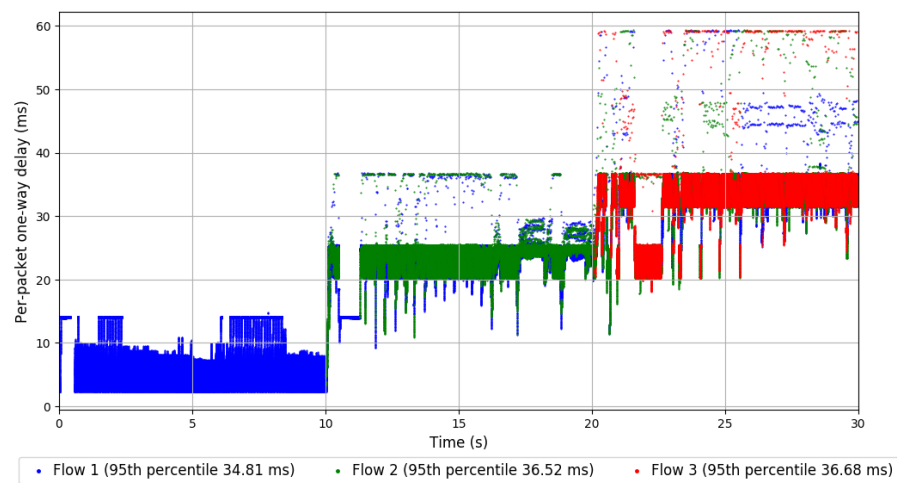
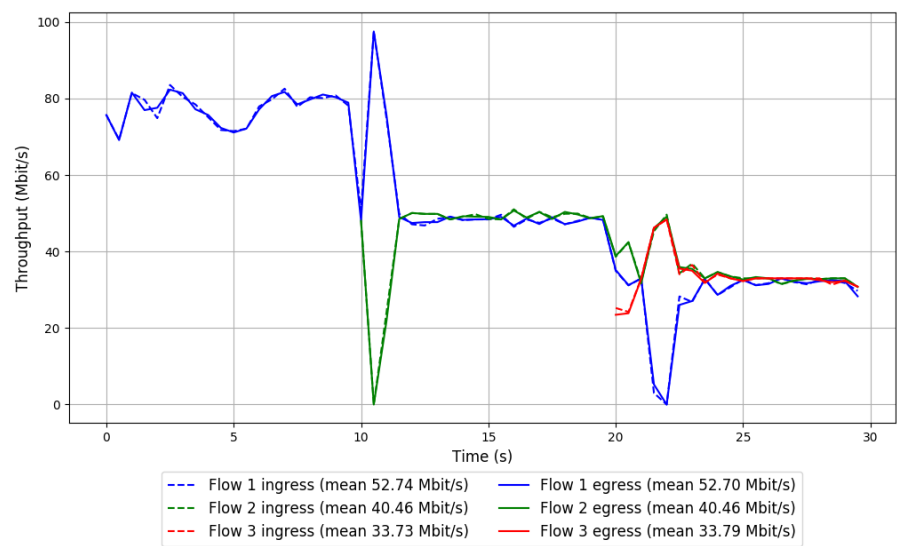


Run 1: Statistics of Verus

Start at: 2018-01-02 07:26:11
End at: 2018-01-02 07:26:41
Local clock offset: 0.085 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-01-02 13:11:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.82 Mbit/s
95th percentile per-packet one-way delay: 36.301 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 52.70 Mbit/s
95th percentile per-packet one-way delay: 34.809 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 36.517 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 36.679 ms
Loss rate: 0.33%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 07:43:08

End at: 2018-01-02 07:43:38

Local clock offset: -0.015 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-01-02 13:11:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 36.556 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 35.357 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.83 Mbit/s

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

Loss rate: 0.15%

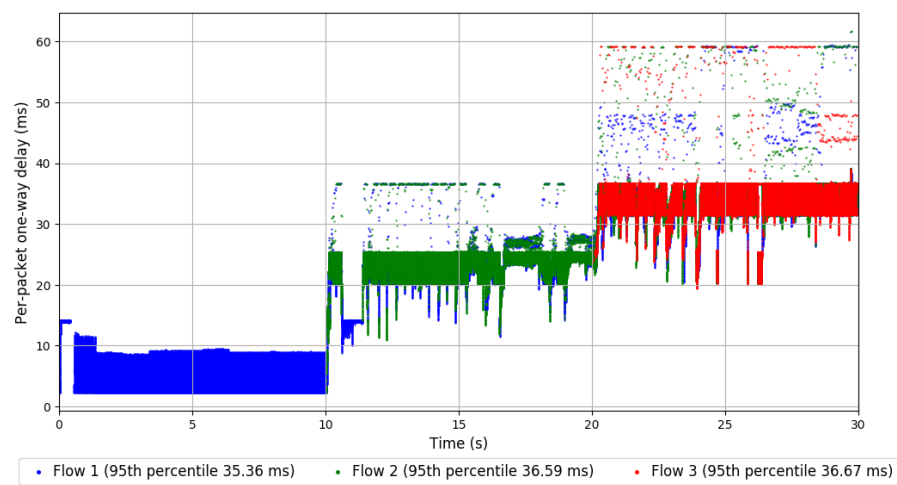
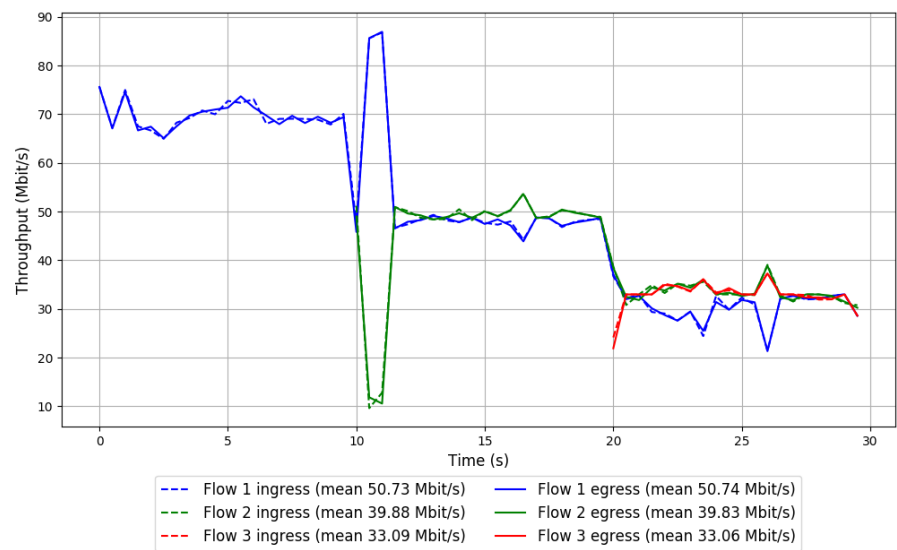
-- Flow 3:

Average throughput: 33.06 Mbit/s

95th percentile per-packet one-way delay: 36.668 ms

Loss rate: 0.34%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 08:00:05

End at: 2018-01-02 08:00:35

Local clock offset: -0.023 ms

Remote clock offset: 0.322 ms

Below is generated by plot.py at 2018-01-02 13:11:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.86 Mbit/s

95th percentile per-packet one-way delay: 36.619 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 51.89 Mbit/s

95th percentile per-packet one-way delay: 36.304 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 41.35 Mbit/s

95th percentile per-packet one-way delay: 36.615 ms

Loss rate: 0.19%

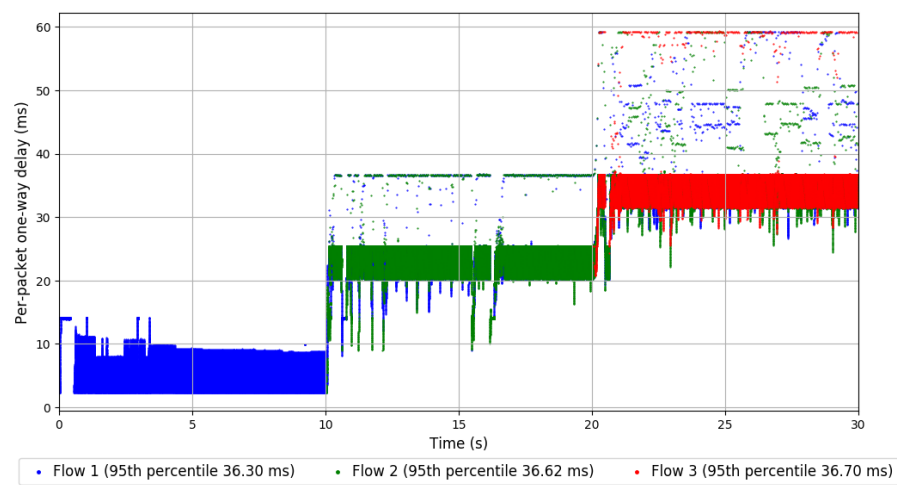
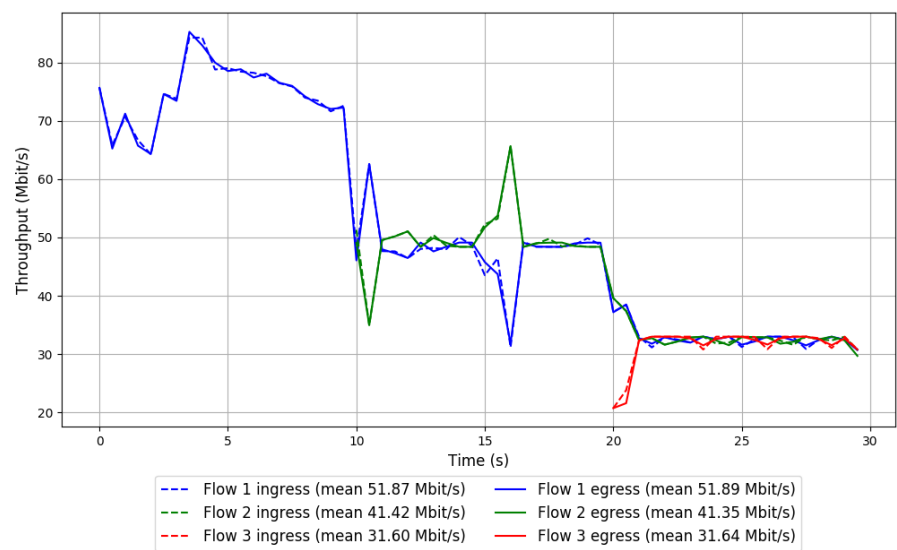
-- Flow 3:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 36.704 ms

Loss rate: 0.36%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

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

End at: 2018-01-02 08:17:32

Local clock offset: -0.024 ms

Remote clock offset: 0.487 ms

Below is generated by plot.py at 2018-01-02 13:11:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.84 Mbit/s

95th percentile per-packet one-way delay: 36.674 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 51.18 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 42.24 Mbit/s

95th percentile per-packet one-way delay: 36.679 ms

Loss rate: 0.13%

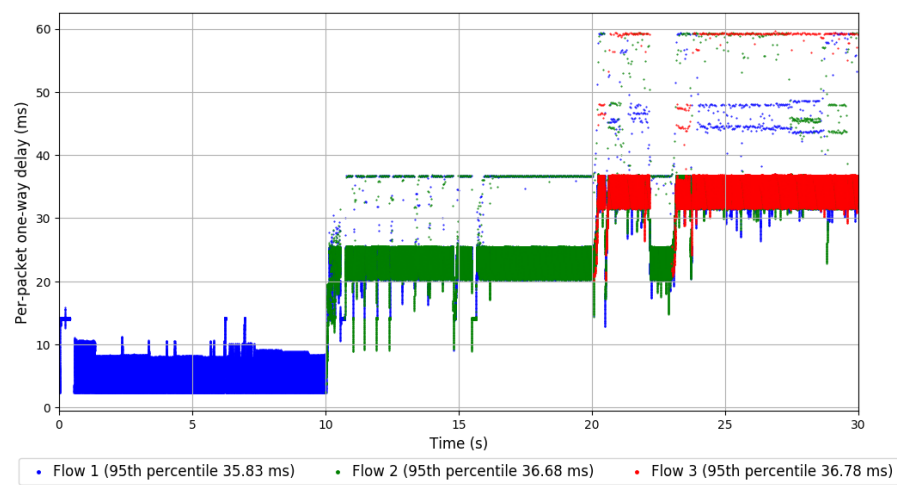
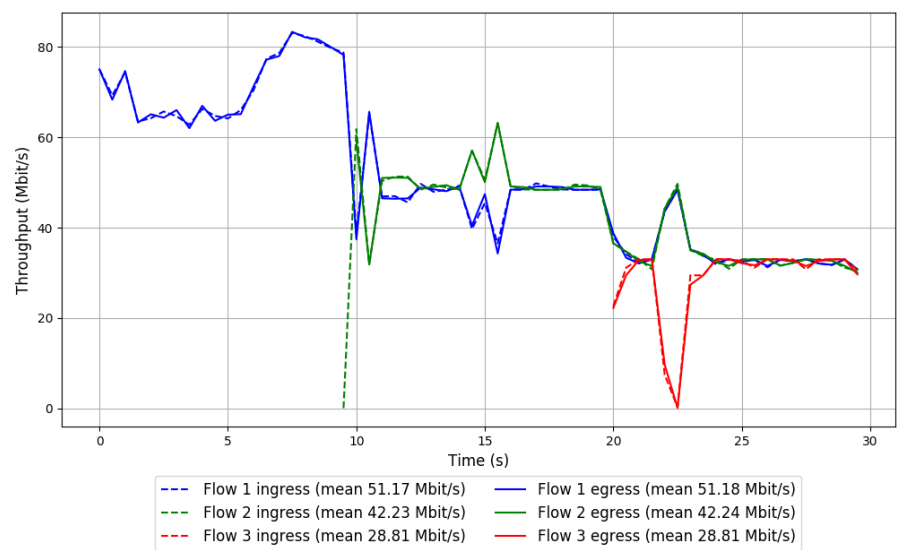
-- Flow 3:

Average throughput: 28.81 Mbit/s

95th percentile per-packet one-way delay: 36.781 ms

Loss rate: 0.56%

Run 4: Report of Verus — Data Link

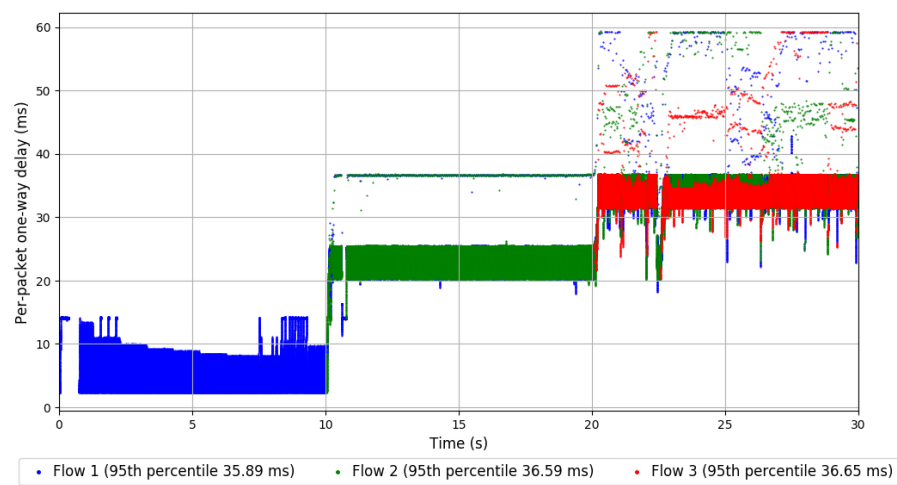
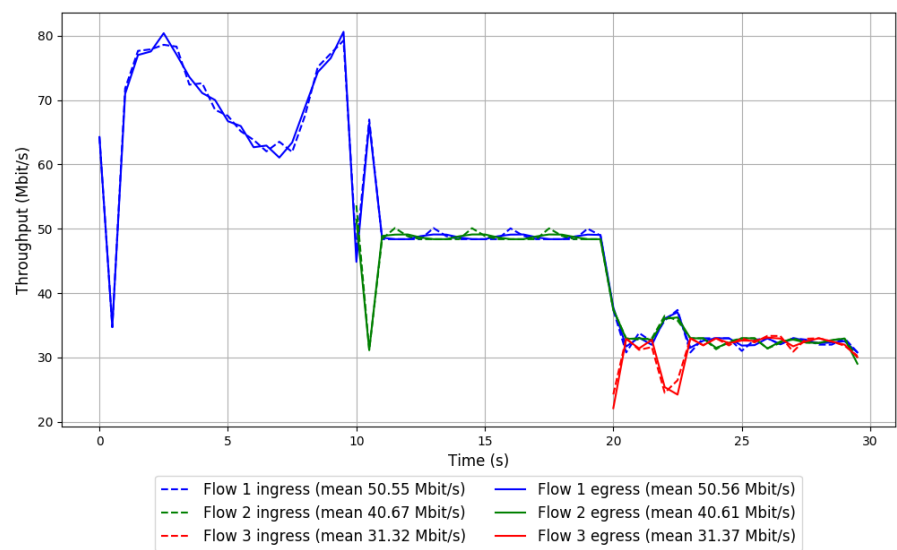


Run 5: Statistics of Verus

Start at: 2018-01-02 08:34:00
End at: 2018-01-02 08:34:30
Local clock offset: -0.105 ms
Remote clock offset: 0.639 ms

Below is generated by plot.py at 2018-01-02 13:11:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.96 Mbit/s
95th percentile per-packet one-way delay: 36.501 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 50.56 Mbit/s
95th percentile per-packet one-way delay: 35.887 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 40.61 Mbit/s
95th percentile per-packet one-way delay: 36.585 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 36.646 ms
Loss rate: 0.36%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 08:50:57

End at: 2018-01-02 08:51:27

Local clock offset: -0.144 ms

Remote clock offset: 0.732 ms

Below is generated by plot.py at 2018-01-02 13:11:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 35.760 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 60.44 Mbit/s

95th percentile per-packet one-way delay: 34.390 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.73 Mbit/s

95th percentile per-packet one-way delay: 35.897 ms

Loss rate: 0.16%

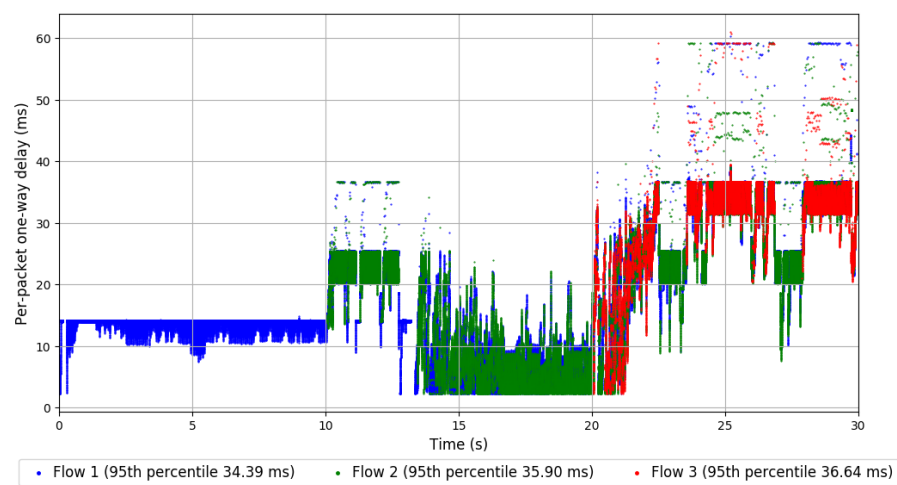
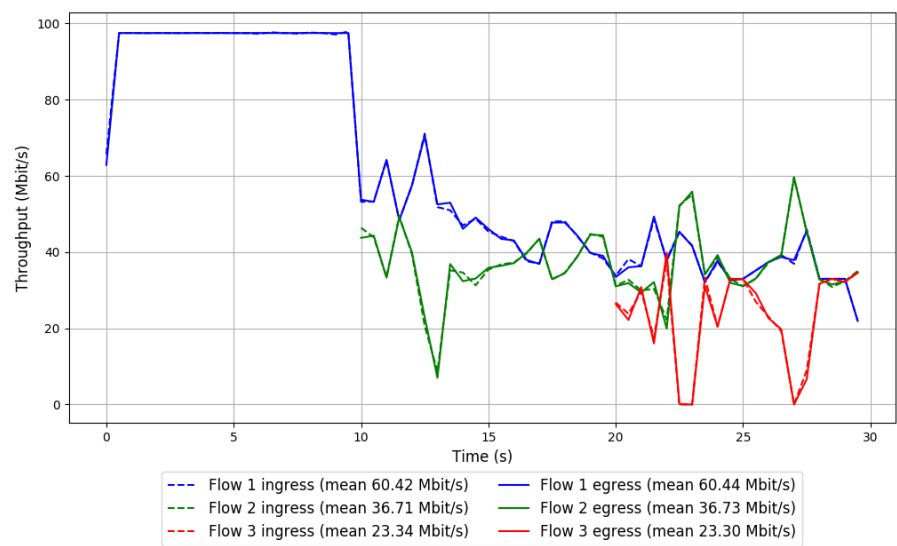
-- Flow 3:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 36.641 ms

Loss rate: 0.48%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 09:07:57

End at: 2018-01-02 09:08:27

Local clock offset: -0.26 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-01-02 13:11:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.98 Mbit/s

95th percentile per-packet one-way delay: 36.513 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 50.74 Mbit/s

95th percentile per-packet one-way delay: 35.341 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 43.31 Mbit/s

95th percentile per-packet one-way delay: 36.504 ms

Loss rate: 0.15%

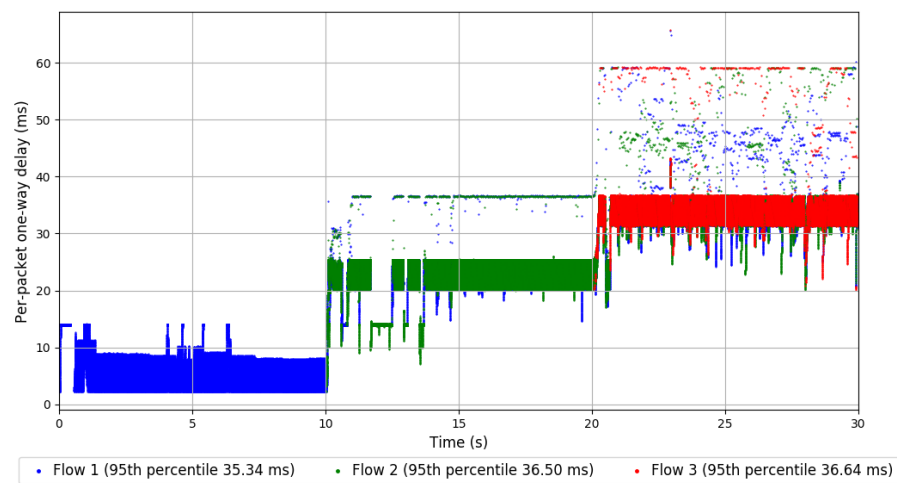
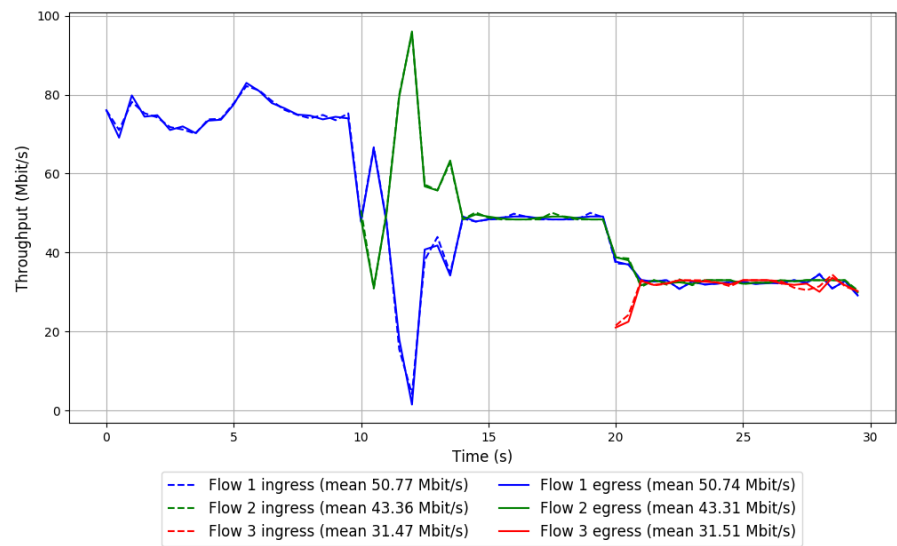
-- Flow 3:

Average throughput: 31.51 Mbit/s

95th percentile per-packet one-way delay: 36.642 ms

Loss rate: 0.36%

Run 7: Report of Verus — Data Link

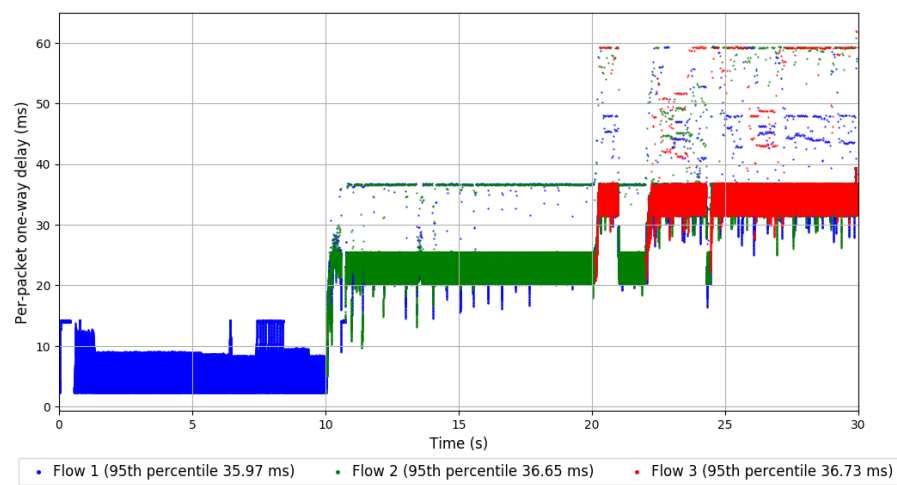
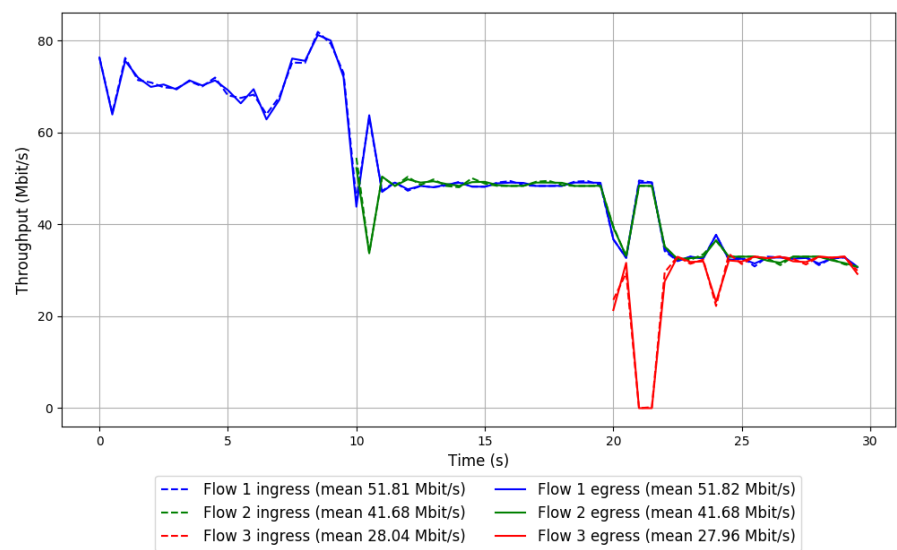


Run 8: Statistics of Verus

Start at: 2018-01-02 09:24:54
End at: 2018-01-02 09:25:24
Local clock offset: -0.225 ms
Remote clock offset: 0.686 ms

```
# Below is generated by plot.py at 2018-01-02 13:11:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 36.633 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 35.974 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 41.68 Mbit/s
95th percentile per-packet one-way delay: 36.652 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 36.728 ms
Loss rate: 0.53%
```

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 09:41:50

End at: 2018-01-02 09:42:21

Local clock offset: -0.263 ms

Remote clock offset: 0.635 ms

Below is generated by plot.py at 2018-01-02 13:12:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 36.668 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 52.02 Mbit/s

95th percentile per-packet one-way delay: 35.442 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.79 Mbit/s

95th percentile per-packet one-way delay: 36.679 ms

Loss rate: 0.19%

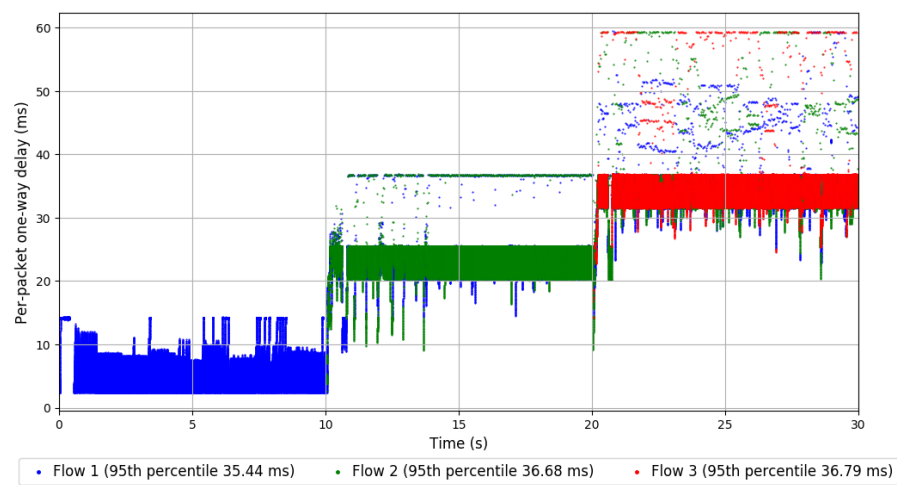
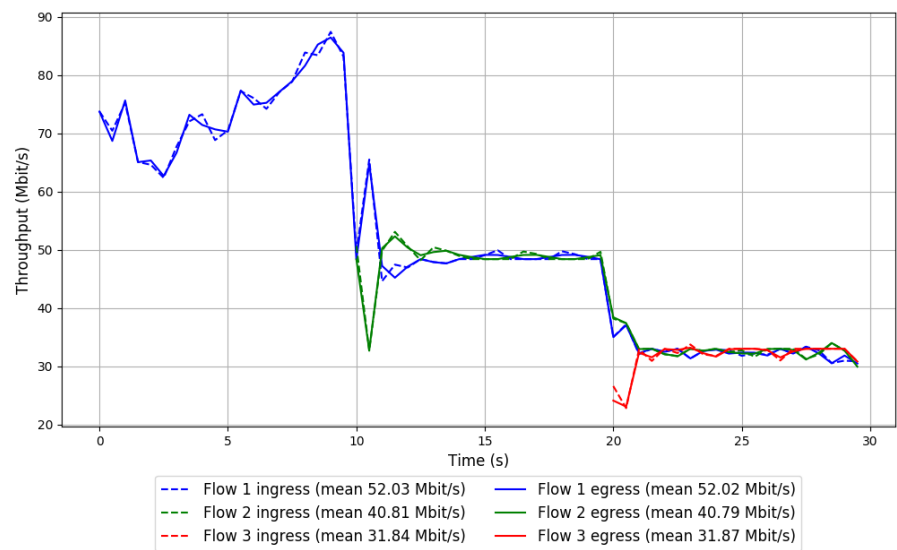
-- Flow 3:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 36.792 ms

Loss rate: 0.35%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 09:58:47

End at: 2018-01-02 09:59:17

Local clock offset: -0.31 ms

Remote clock offset: 0.759 ms

Below is generated by plot.py at 2018-01-02 13:12:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.35 Mbit/s

95th percentile per-packet one-way delay: 36.407 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 51.28 Mbit/s

95th percentile per-packet one-way delay: 34.952 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 41.34 Mbit/s

95th percentile per-packet one-way delay: 36.487 ms

Loss rate: 0.14%

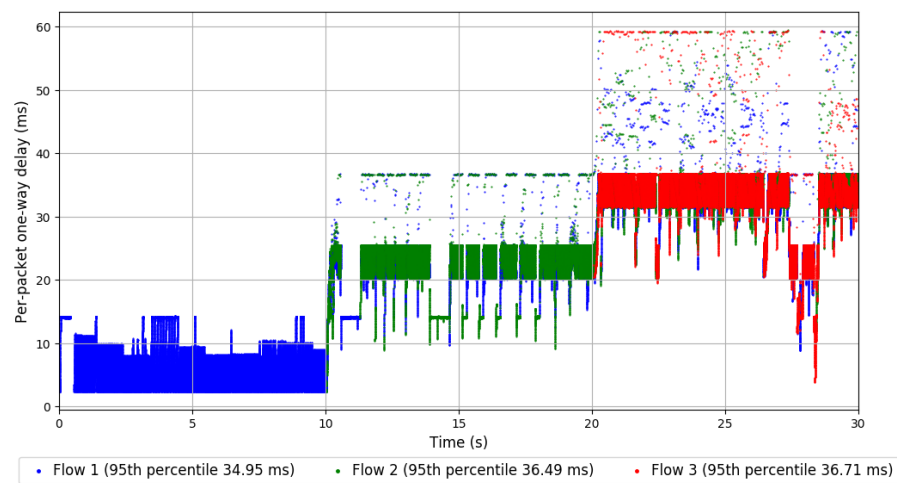
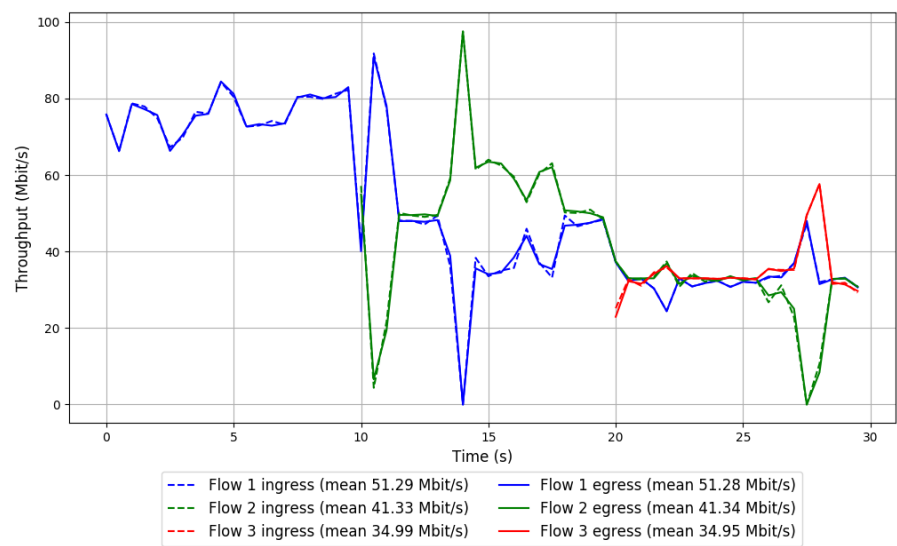
-- Flow 3:

Average throughput: 34.95 Mbit/s

95th percentile per-packet one-way delay: 36.709 ms

Loss rate: 0.26%

Run 10: Report of Verus — Data Link

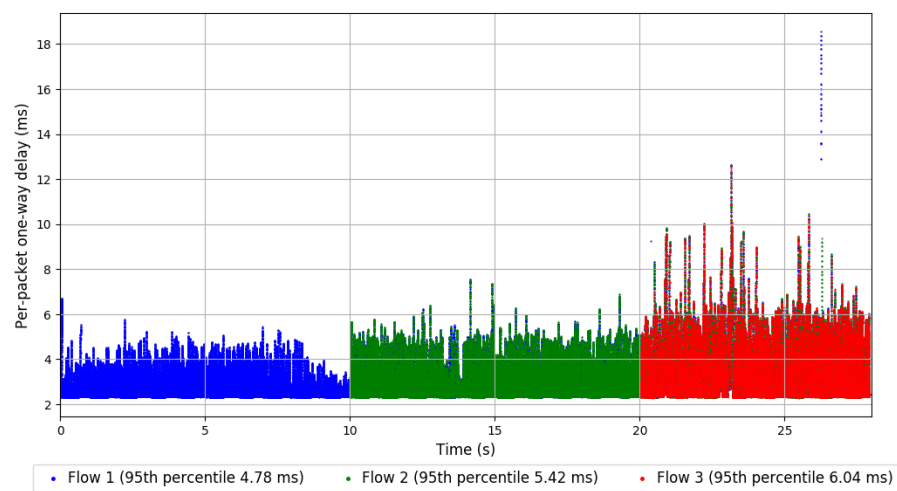
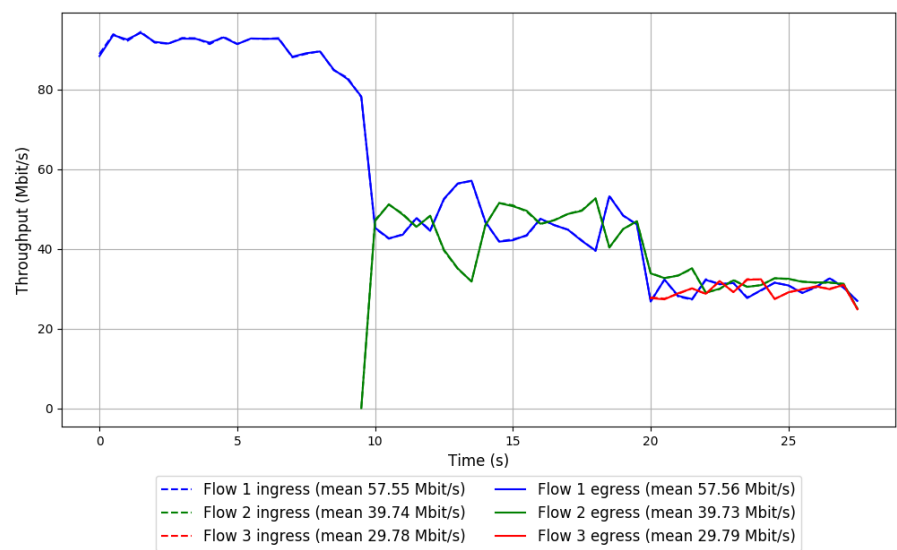


Run 1: Statistics of Copa

Start at: 2018-01-02 07:25:00
End at: 2018-01-02 07:25:30
Local clock offset: 0.071 ms
Remote clock offset: -0.212 ms

Below is generated by plot.py at 2018-01-02 13:13:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 5.208 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 4.781 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 5.422 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 29.79 Mbit/s
95th percentile per-packet one-way delay: 6.038 ms
Loss rate: 0.06%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 07:41:57

End at: 2018-01-02 07:42:27

Local clock offset: -0.032 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-01-02 13:13:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.77 Mbit/s

95th percentile per-packet one-way delay: 4.216 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 75.20 Mbit/s

95th percentile per-packet one-way delay: 4.028 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 2.866 ms

Loss rate: 0.00%

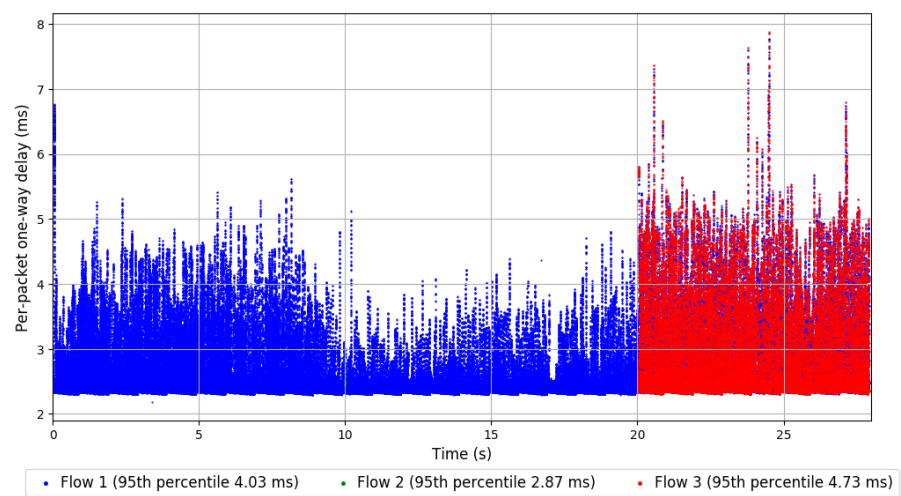
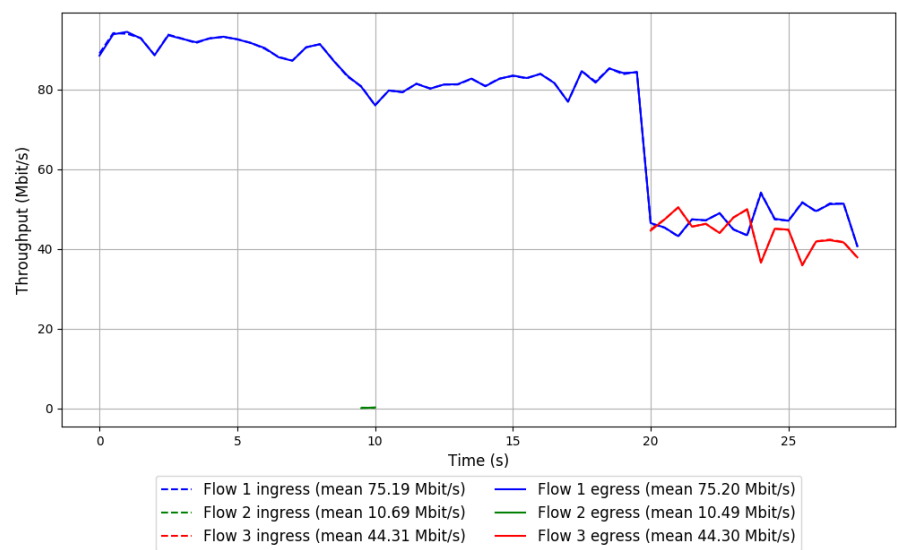
-- Flow 3:

Average throughput: 44.30 Mbit/s

95th percentile per-packet one-way delay: 4.733 ms

Loss rate: 0.05%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 07:58:54

End at: 2018-01-02 07:59:24

Local clock offset: -0.01 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-01-02 13:14:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.68 Mbit/s

95th percentile per-packet one-way delay: 5.335 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 4.914 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.04 Mbit/s

95th percentile per-packet one-way delay: 5.535 ms

Loss rate: 0.03%

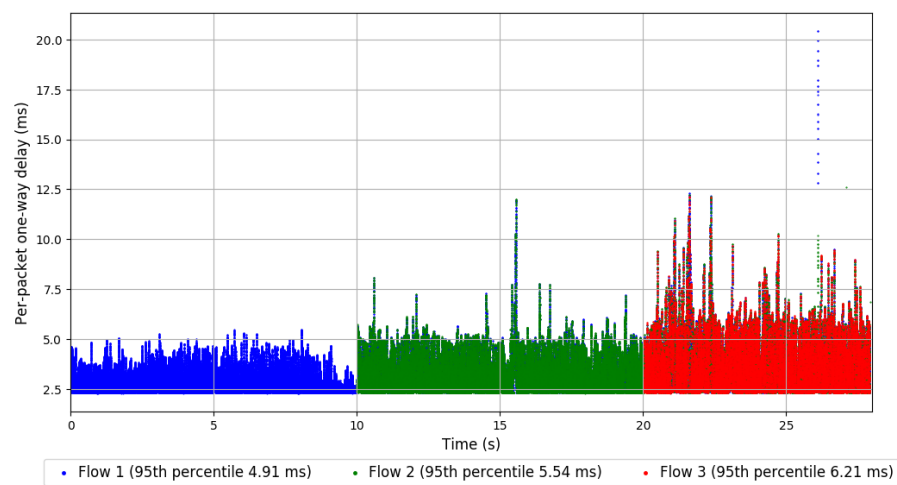
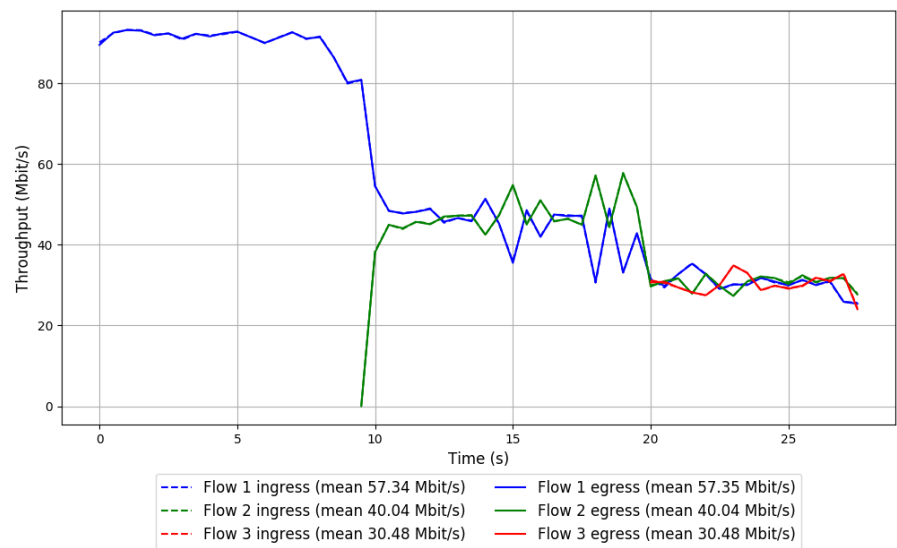
-- Flow 3:

Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 6.210 ms

Loss rate: 0.09%

Run 3: Report of Copa — Data Link

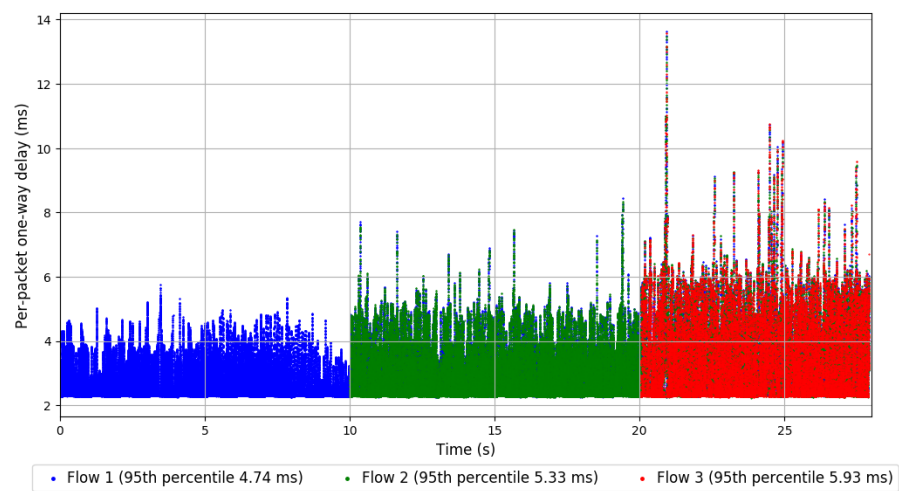
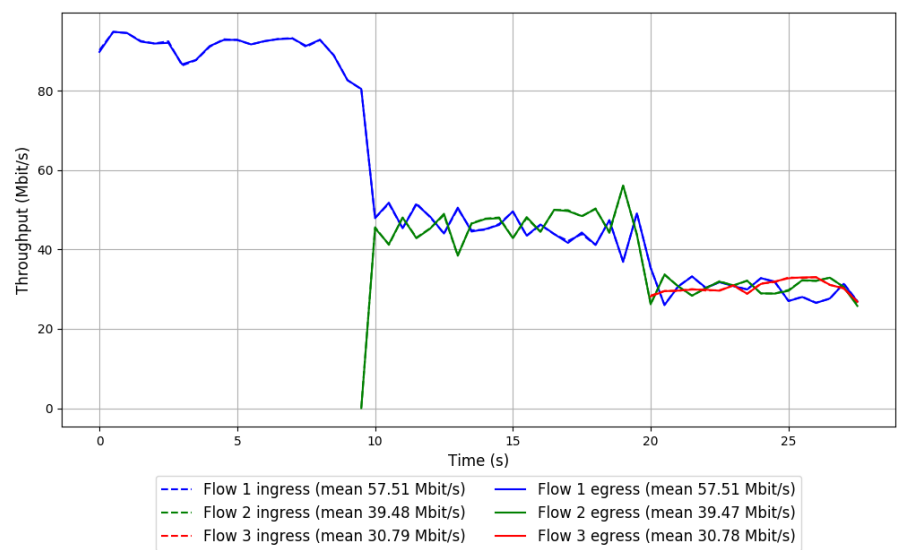


Run 4: Statistics of Copa

Start at: 2018-01-02 08:15:51
End at: 2018-01-02 08:16:21
Local clock offset: -0.104 ms
Remote clock offset: 0.491 ms

```
# Below is generated by plot.py at 2018-01-02 13:14:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.57 Mbit/s
95th percentile per-packet one-way delay: 5.148 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 57.51 Mbit/s
95th percentile per-packet one-way delay: 4.744 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: 5.332 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 30.78 Mbit/s
95th percentile per-packet one-way delay: 5.934 ms
Loss rate: 0.09%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 08:32:48

End at: 2018-01-02 08:33:18

Local clock offset: -0.073 ms

Remote clock offset: 0.576 ms

Below is generated by plot.py at 2018-01-02 13:14:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 5.351 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 57.71 Mbit/s

95th percentile per-packet one-way delay: 4.879 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 5.583 ms

Loss rate: 0.04%

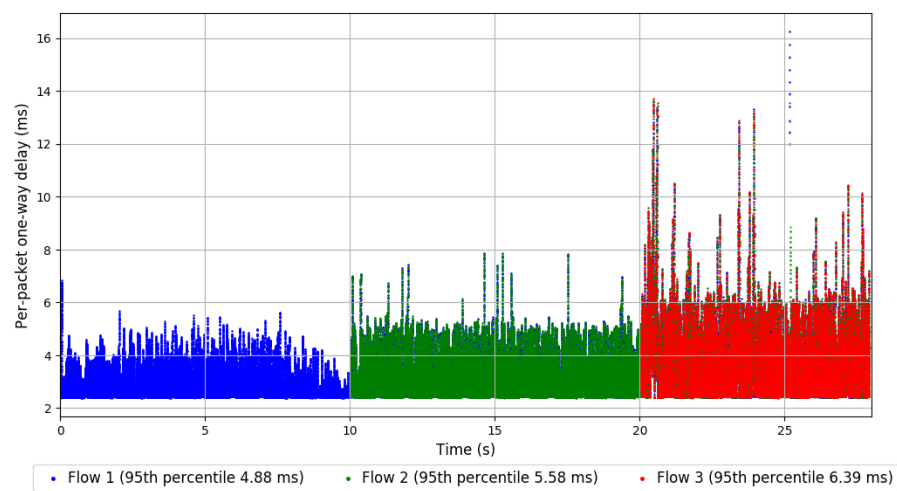
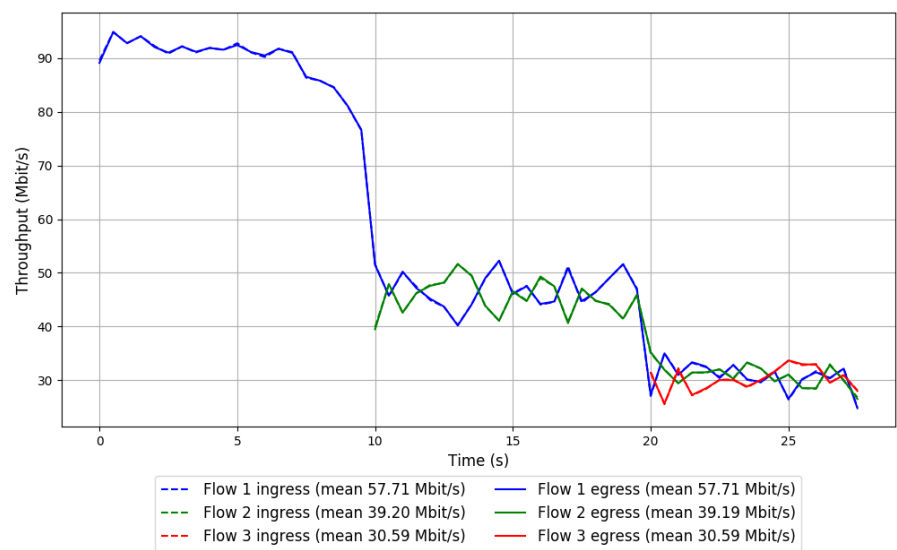
-- Flow 3:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 6.388 ms

Loss rate: 0.09%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 08:49:45

End at: 2018-01-02 08:50:15

Local clock offset: -0.114 ms

Remote clock offset: 0.663 ms

Below is generated by plot.py at 2018-01-02 13:14:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 30.974 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 29.853 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.83 Mbit/s

95th percentile per-packet one-way delay: 31.116 ms

Loss rate: 0.17%

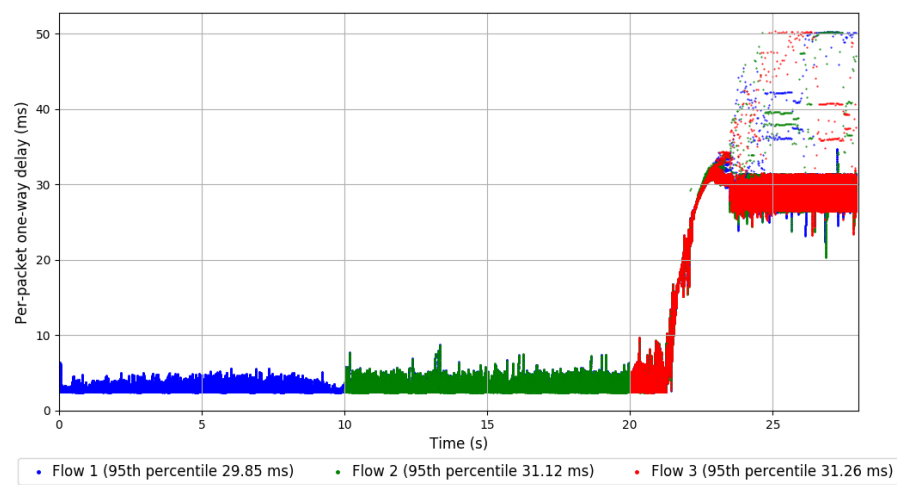
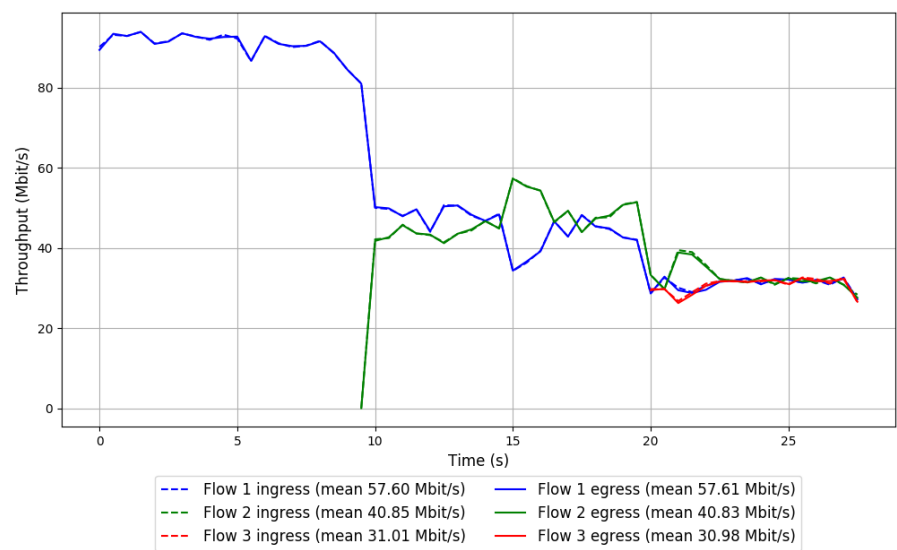
-- Flow 3:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 31.259 ms

Loss rate: 0.41%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 09:06:45

End at: 2018-01-02 09:07:15

Local clock offset: -0.179 ms

Remote clock offset: 0.707 ms

Below is generated by plot.py at 2018-01-02 13:14:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.48 Mbit/s

95th percentile per-packet one-way delay: 30.694 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.34 Mbit/s

95th percentile per-packet one-way delay: 29.209 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 37.79 Mbit/s

95th percentile per-packet one-way delay: 30.951 ms

Loss rate: 0.20%

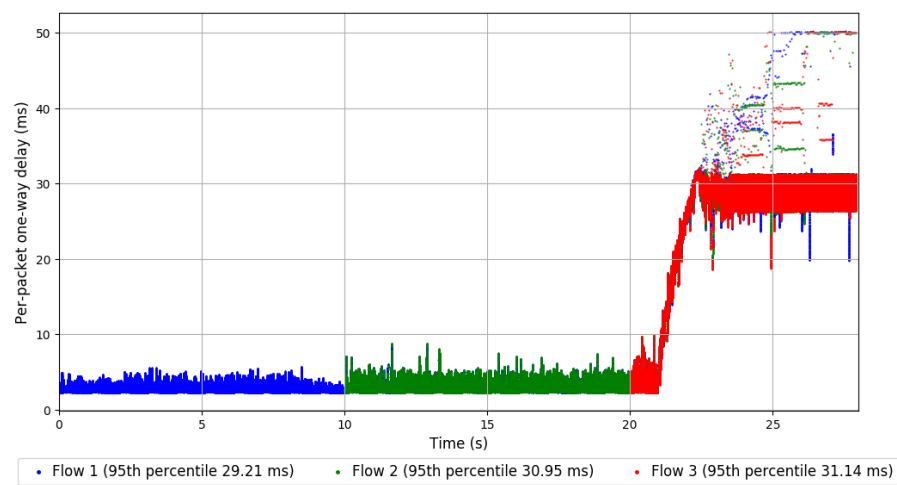
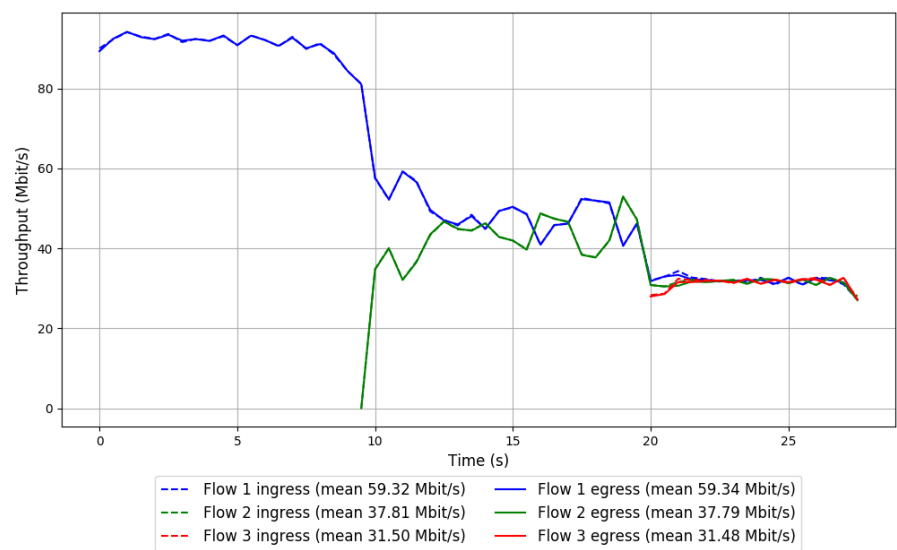
-- Flow 3:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 31.137 ms

Loss rate: 0.37%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 09:23:42

End at: 2018-01-02 09:24:12

Local clock offset: -0.229 ms

Remote clock offset: 0.694 ms

Below is generated by plot.py at 2018-01-02 13:14:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 30.772 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 29.994 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.54 Mbit/s

95th percentile per-packet one-way delay: 30.985 ms

Loss rate: 0.13%

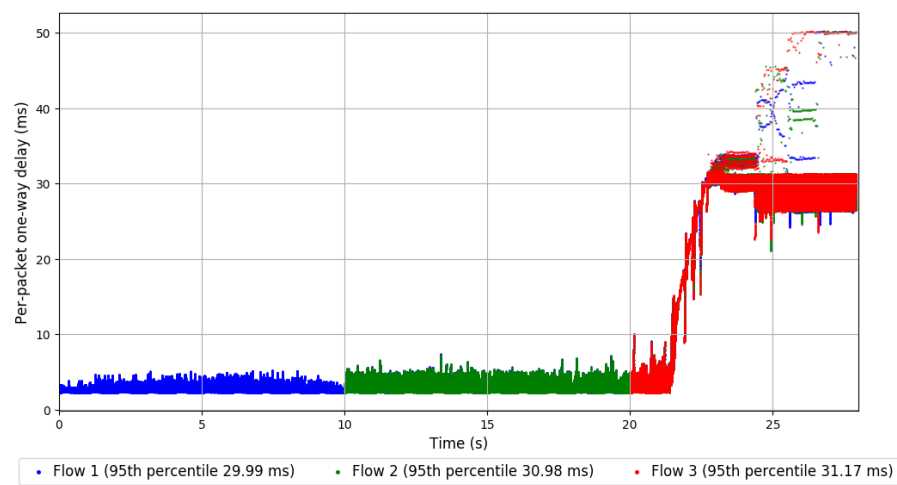
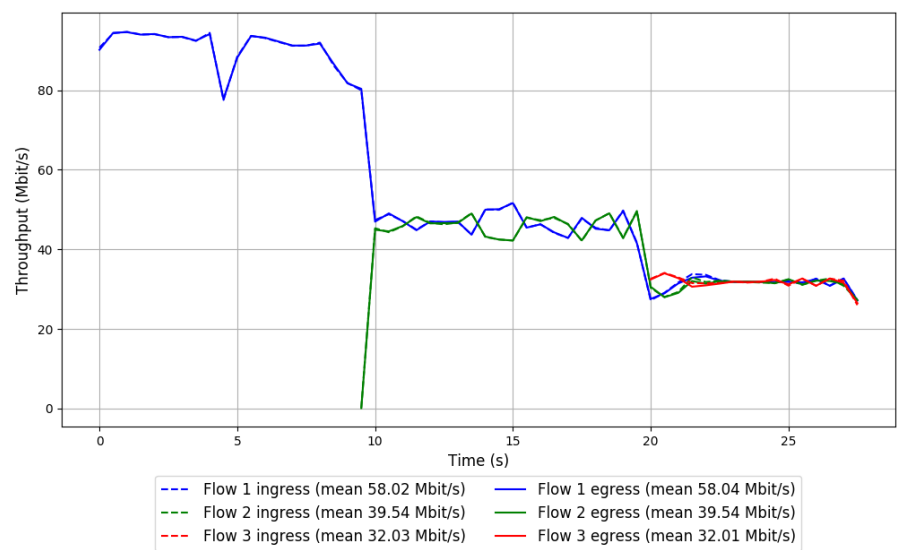
-- Flow 3:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 31.171 ms

Loss rate: 0.36%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 09:40:39

End at: 2018-01-02 09:41:09

Local clock offset: -0.284 ms

Remote clock offset: 0.726 ms

Below is generated by plot.py at 2018-01-02 13:15:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.76 Mbit/s

95th percentile per-packet one-way delay: 30.728 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.05 Mbit/s

95th percentile per-packet one-way delay: 29.395 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.24 Mbit/s

95th percentile per-packet one-way delay: 31.045 ms

Loss rate: 0.13%

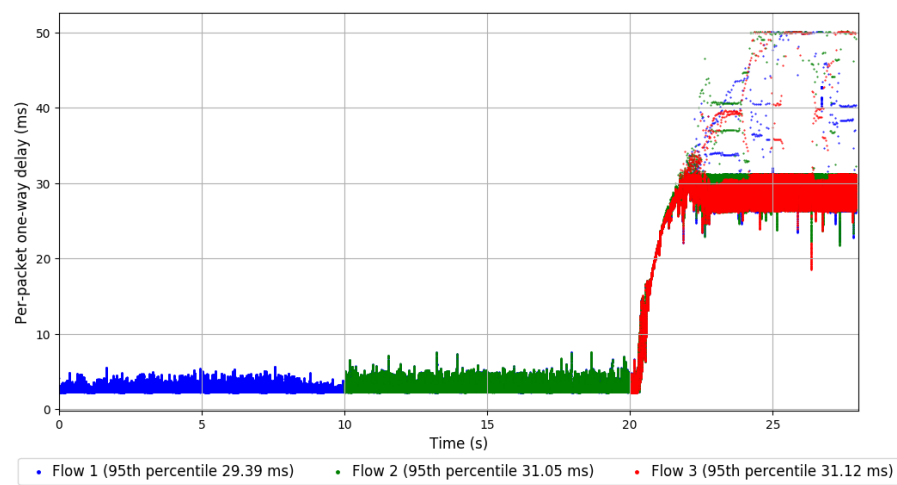
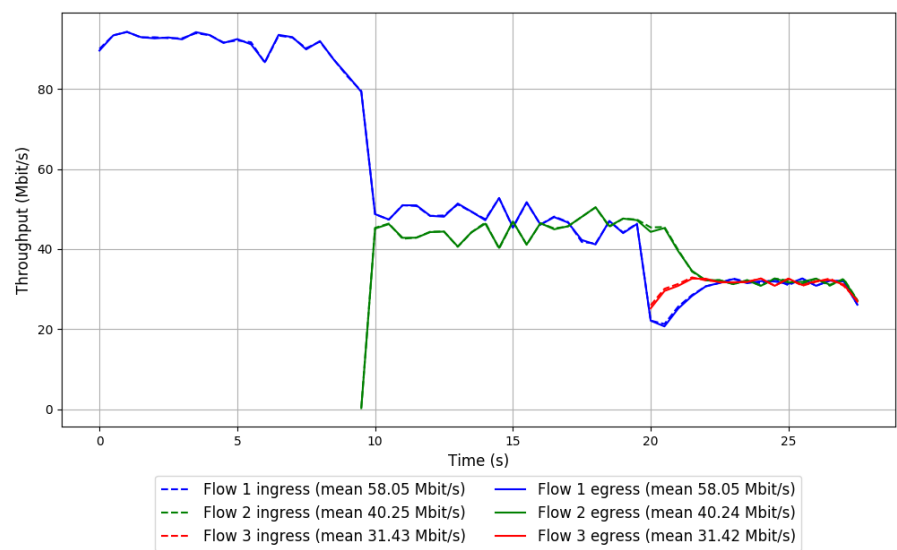
-- Flow 3:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 31.117 ms

Loss rate: 0.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 09:57:36

End at: 2018-01-02 09:58:06

Local clock offset: -0.321 ms

Remote clock offset: 0.683 ms

Below is generated by plot.py at 2018-01-02 13:16:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 30.813 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 29.664 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.99 Mbit/s

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

Loss rate: 0.13%

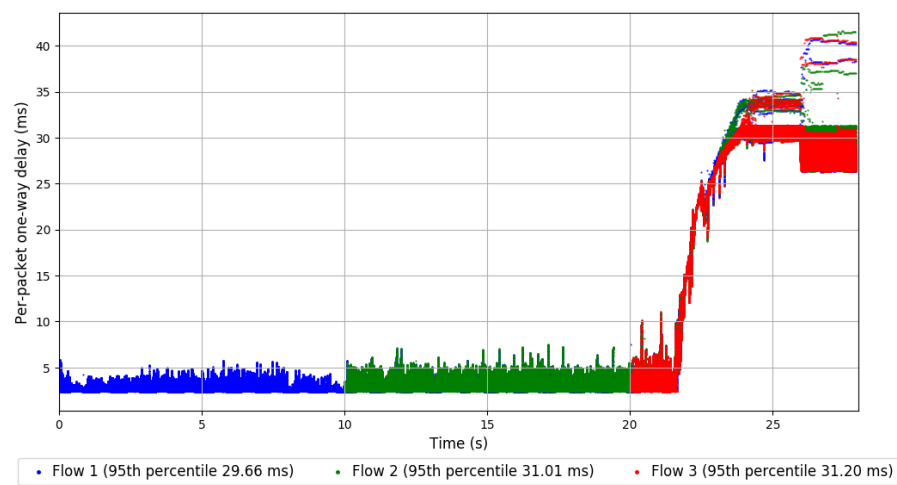
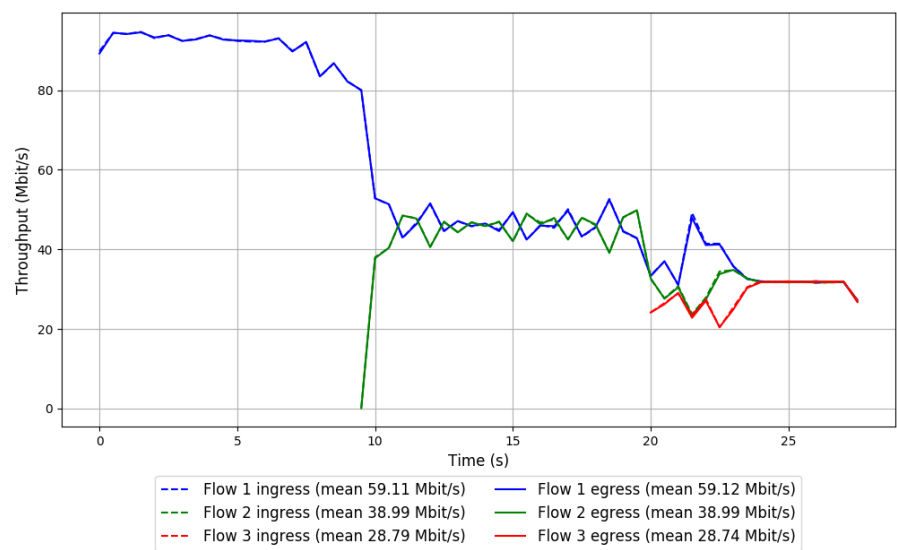
-- Flow 3:

Average throughput: 28.74 Mbit/s

95th percentile per-packet one-way delay: 31.205 ms

Loss rate: 0.51%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-02 07:17:12

End at: 2018-01-02 07:17:42

Local clock offset: 0.132 ms

Remote clock offset: -0.269 ms

Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of FillP

Start at: 2018-01-02 07:34:09

End at: 2018-01-02 07:34:39

Local clock offset: -0.037 ms

Remote clock offset: -0.062 ms

Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP

Start at: 2018-01-02 07:51:05

End at: 2018-01-02 07:51:35

Local clock offset: -0.067 ms

Remote clock offset: 0.228 ms

Run 3: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of FillP

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

End at: 2018-01-02 08:08:33

Local clock offset: -0.029 ms

Remote clock offset: 0.428 ms

Run 4: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of FillP

Start at: 2018-01-02 08:25:00

End at: 2018-01-02 08:25:30

Local clock offset: -0.144 ms

Remote clock offset: 0.583 ms

Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP

Start at: 2018-01-02 08:41:57

End at: 2018-01-02 08:42:27

Local clock offset: -0.094 ms

Remote clock offset: 0.631 ms

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

Start at: 2018-01-02 08:58:54

End at: 2018-01-02 08:59:24

Local clock offset: -0.158 ms

Remote clock offset: 0.653 ms

Run 7: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP

Start at: 2018-01-02 09:15:54

End at: 2018-01-02 09:16:24

Local clock offset: -0.193 ms

Remote clock offset: 0.635 ms

Run 8: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP

Start at: 2018-01-02 09:32:51

End at: 2018-01-02 09:33:21

Local clock offset: -0.251 ms

Remote clock offset: 0.705 ms

Run 9: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP

Start at: 2018-01-02 09:49:48

End at: 2018-01-02 09:50:18

Local clock offset: -0.298 ms

Remote clock offset: 0.729 ms

Run 10: Report of FillP — Data Link

Figure is missing

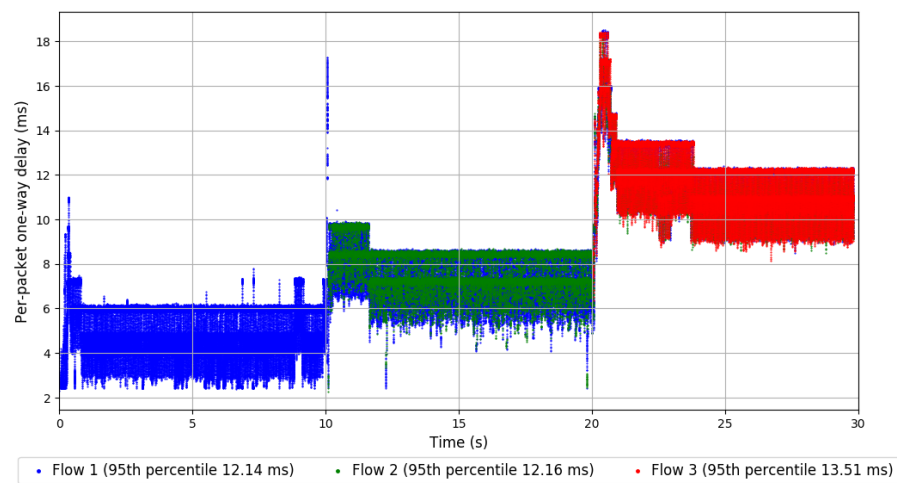
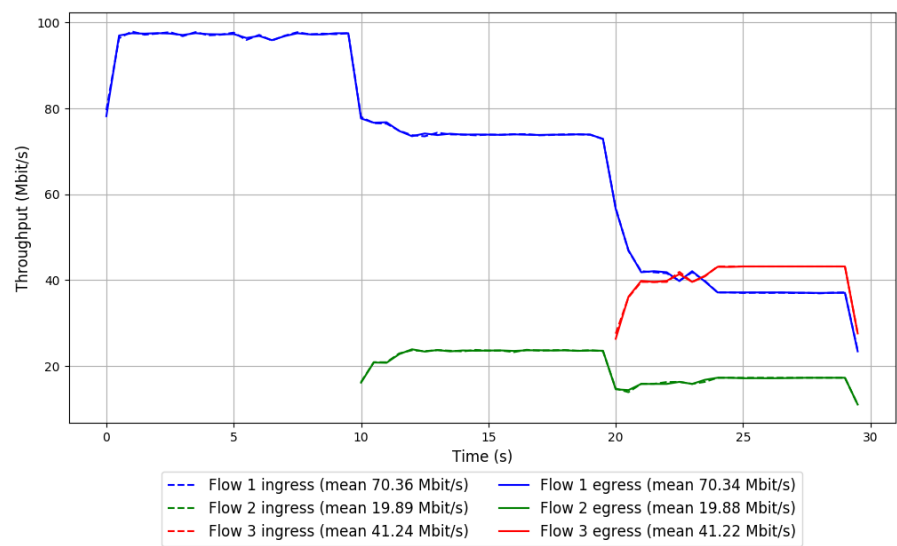
Figure is missing

```
Run 1: Statistics of Indigo

Start at: 2018-01-02 07:31:52
End at: 2018-01-02 07:32:22
Local clock offset: 0.065 ms
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2018-01-02 13:16:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 12.310 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 70.34 Mbit/s
95th percentile per-packet one-way delay: 12.143 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 19.88 Mbit/s
95th percentile per-packet one-way delay: 12.157 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 13.511 ms
Loss rate: 0.15%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-02 07:48:48

End at: 2018-01-02 07:49:18

Local clock offset: -0.024 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-01-02 13:16:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 15.336 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 57.39 Mbit/s

95th percentile per-packet one-way delay: 14.125 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 37.28 Mbit/s

95th percentile per-packet one-way delay: 15.317 ms

Loss rate: 0.05%

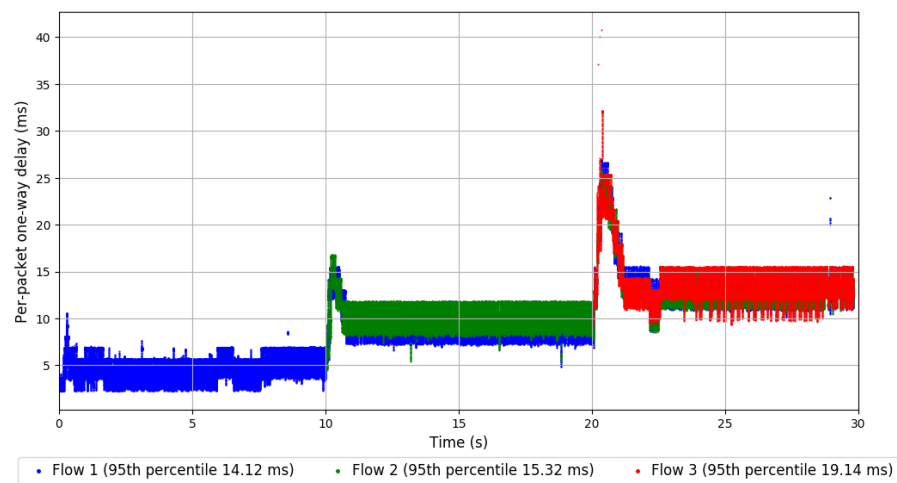
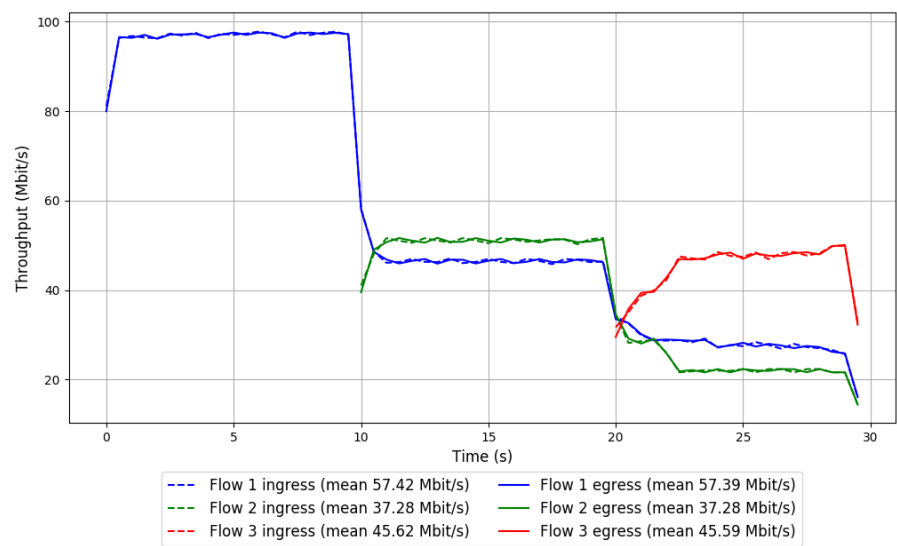
-- Flow 3:

Average throughput: 45.59 Mbit/s

95th percentile per-packet one-way delay: 19.137 ms

Loss rate: 0.19%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 08:05:46

End at: 2018-01-02 08:06:16

Local clock offset: -0.027 ms

Remote clock offset: 0.42 ms

Below is generated by plot.py at 2018-01-02 13:16:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 12.999 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 60.72 Mbit/s

95th percentile per-packet one-way delay: 12.598 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 33.82 Mbit/s

95th percentile per-packet one-way delay: 12.974 ms

Loss rate: 0.03%

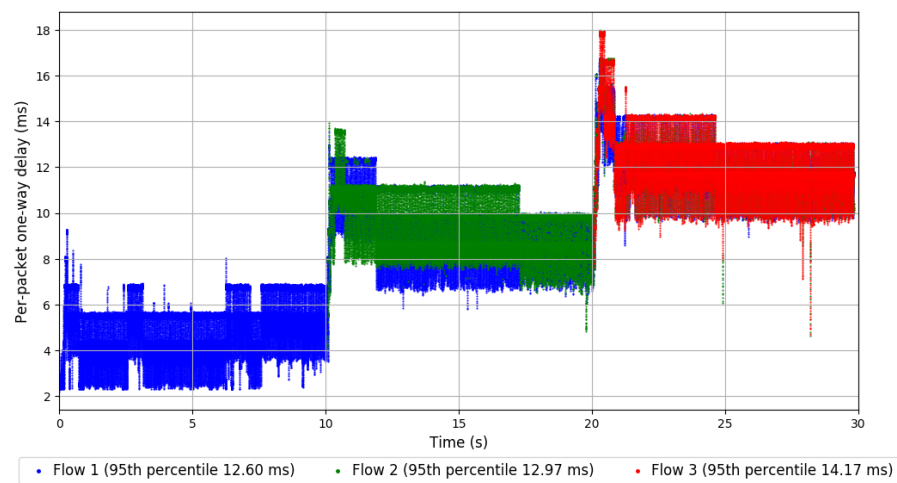
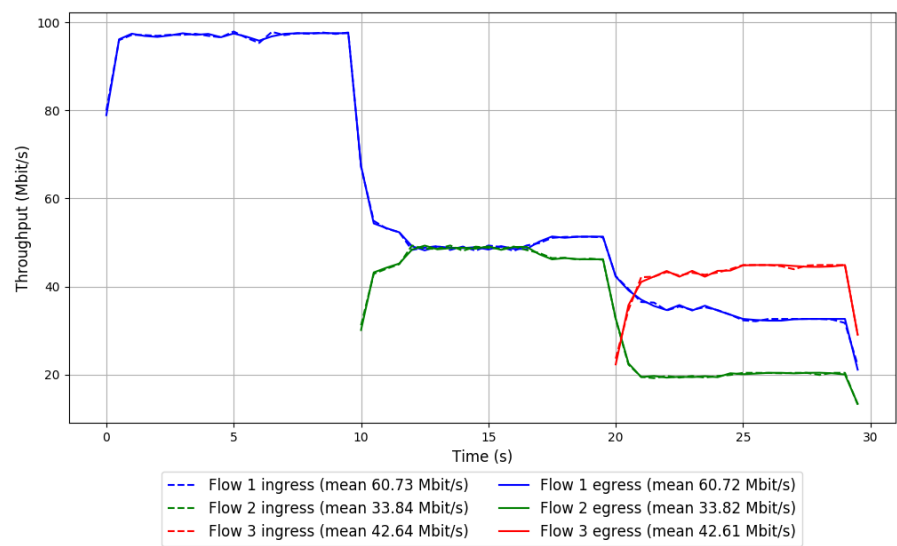
-- Flow 3:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 14.174 ms

Loss rate: 0.16%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 08:22:43

End at: 2018-01-02 08:23:13

Local clock offset: -0.072 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at 2018-01-02 13:16:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 11.481 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 62.99 Mbit/s

95th percentile per-packet one-way delay: 11.351 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.30 Mbit/s

95th percentile per-packet one-way delay: 11.534 ms

Loss rate: 0.03%

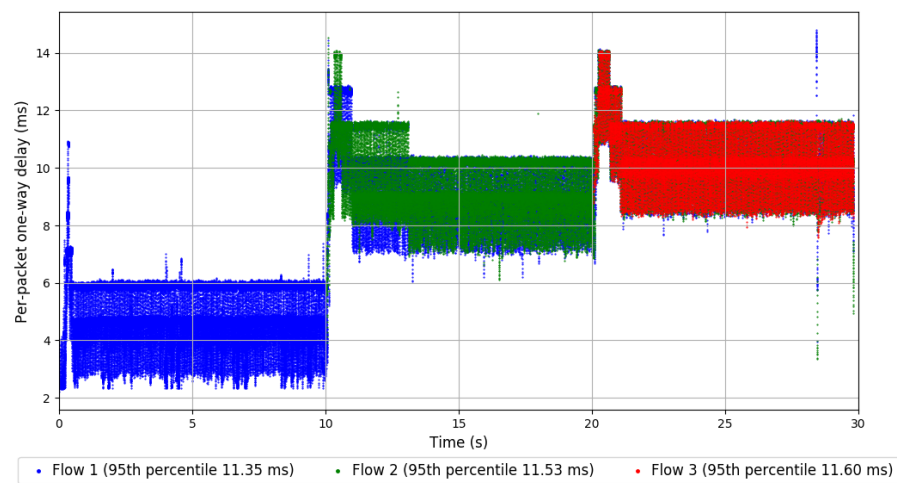
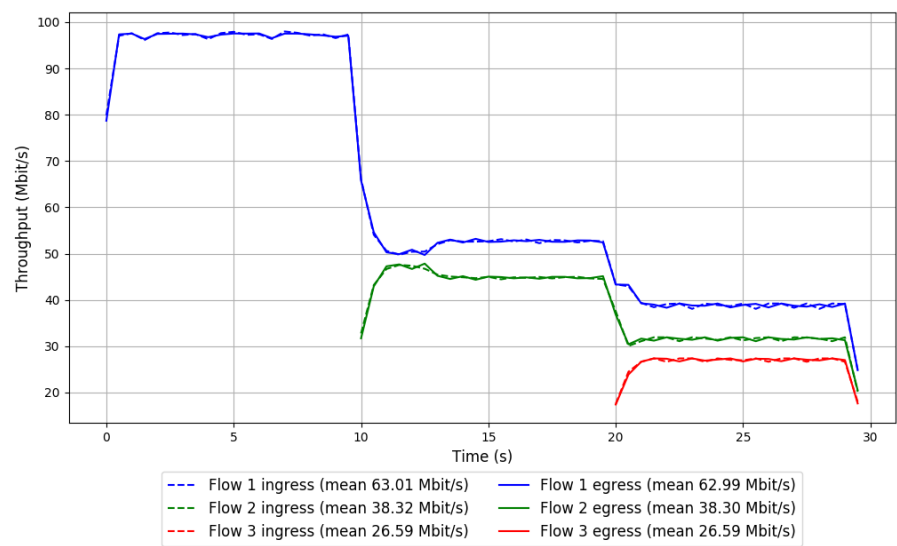
-- Flow 3:

Average throughput: 26.59 Mbit/s

95th percentile per-packet one-way delay: 11.596 ms

Loss rate: 0.14%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 08:39:40

End at: 2018-01-02 08:40:10

Local clock offset: -0.101 ms

Remote clock offset: 0.674 ms

Below is generated by plot.py at 2018-01-02 13:16:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 13.539 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 13.038 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 50.41 Mbit/s

95th percentile per-packet one-way delay: 14.103 ms

Loss rate: 0.07%

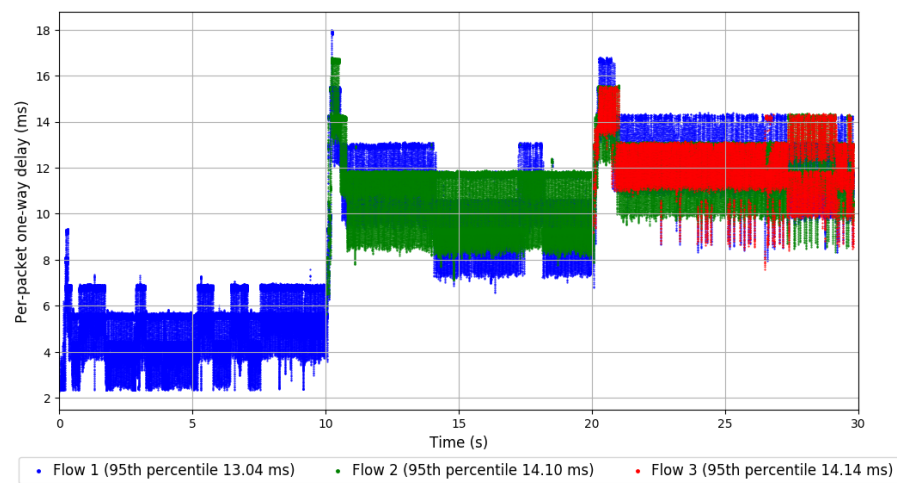
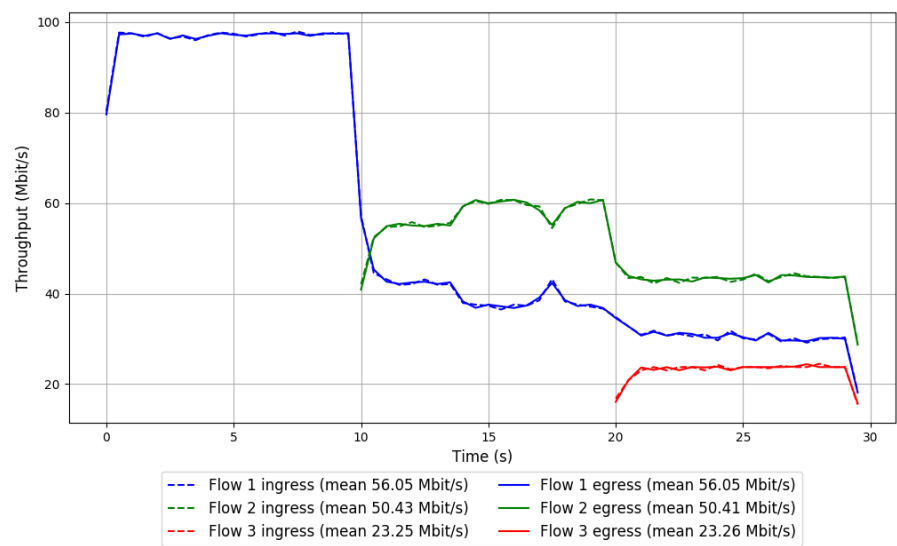
-- Flow 3:

Average throughput: 23.26 Mbit/s

95th percentile per-packet one-way delay: 14.138 ms

Loss rate: 0.10%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 08:56:37

End at: 2018-01-02 08:57:07

Local clock offset: -0.146 ms

Remote clock offset: 0.717 ms

Below is generated by plot.py at 2018-01-02 13:16:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 15.477 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 14.271 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 38.97 Mbit/s

95th percentile per-packet one-way delay: 14.768 ms

Loss rate: 0.05%

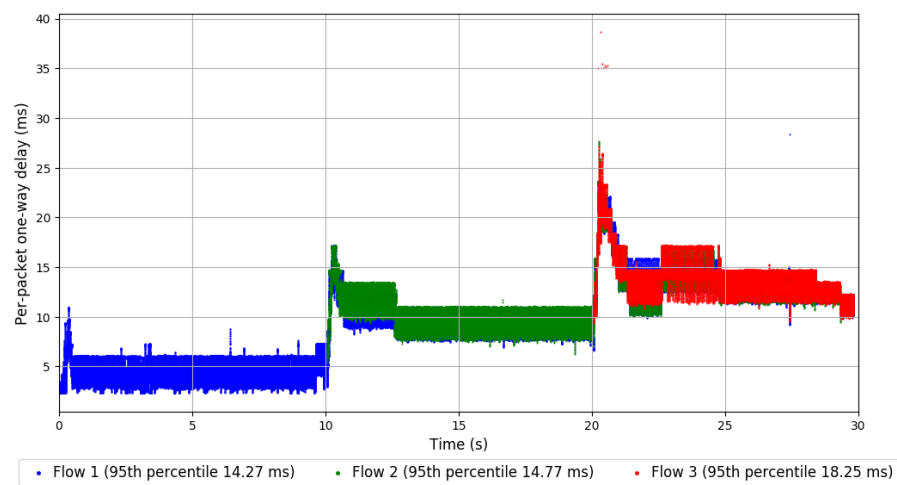
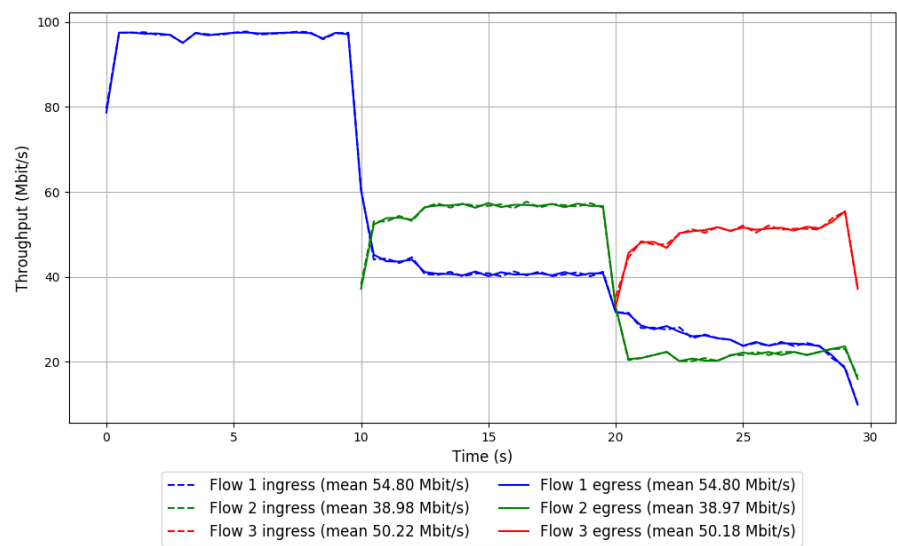
-- Flow 3:

Average throughput: 50.18 Mbit/s

95th percentile per-packet one-way delay: 18.245 ms

Loss rate: 0.12%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 09:13:37

End at: 2018-01-02 09:14:07

Local clock offset: -0.194 ms

Remote clock offset: 0.703 ms

Below is generated by plot.py at 2018-01-02 13:16:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 12.935 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 12.250 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 44.79 Mbit/s

95th percentile per-packet one-way delay: 13.055 ms

Loss rate: 0.05%

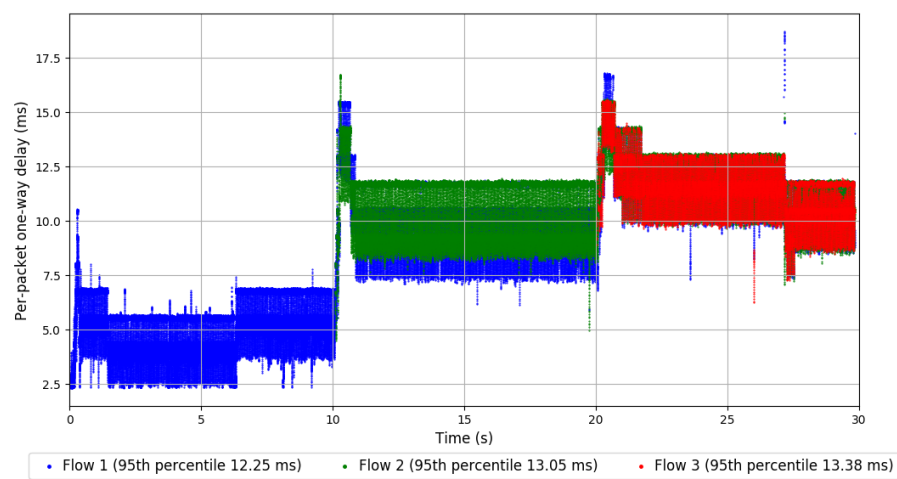
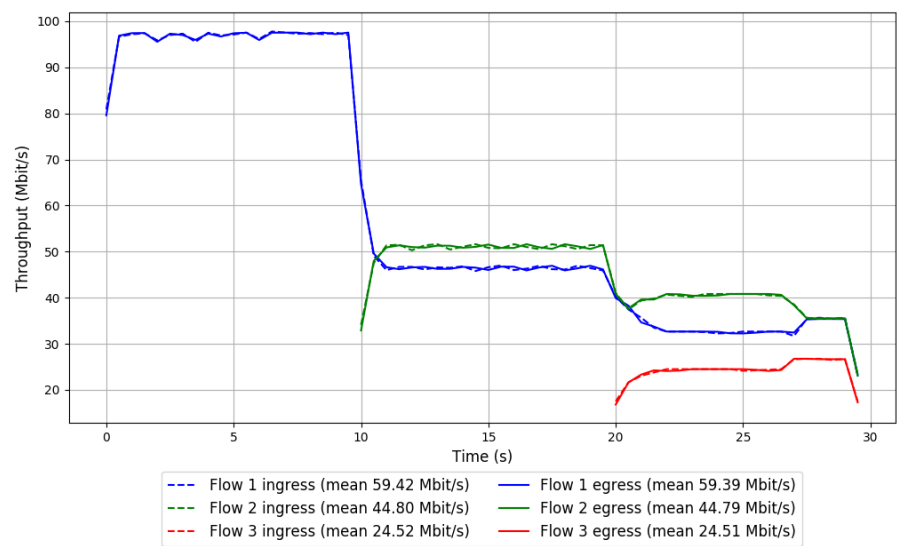
-- Flow 3:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 13.378 ms

Loss rate: 0.15%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 09:30:34

End at: 2018-01-02 09:31:04

Local clock offset: -0.27 ms

Remote clock offset: 0.634 ms

Below is generated by plot.py at 2018-01-02 13:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.10 Mbit/s

95th percentile per-packet one-way delay: 11.559 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 11.411 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 26.62 Mbit/s

95th percentile per-packet one-way delay: 11.479 ms

Loss rate: 0.03%

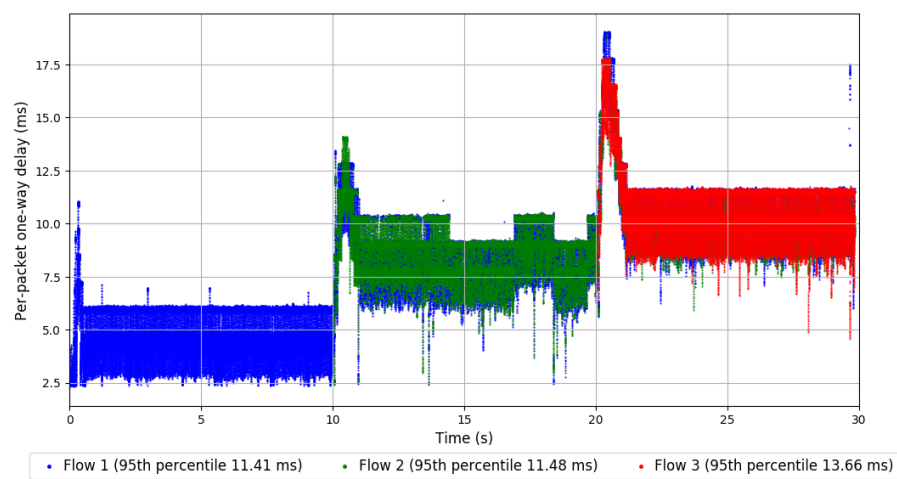
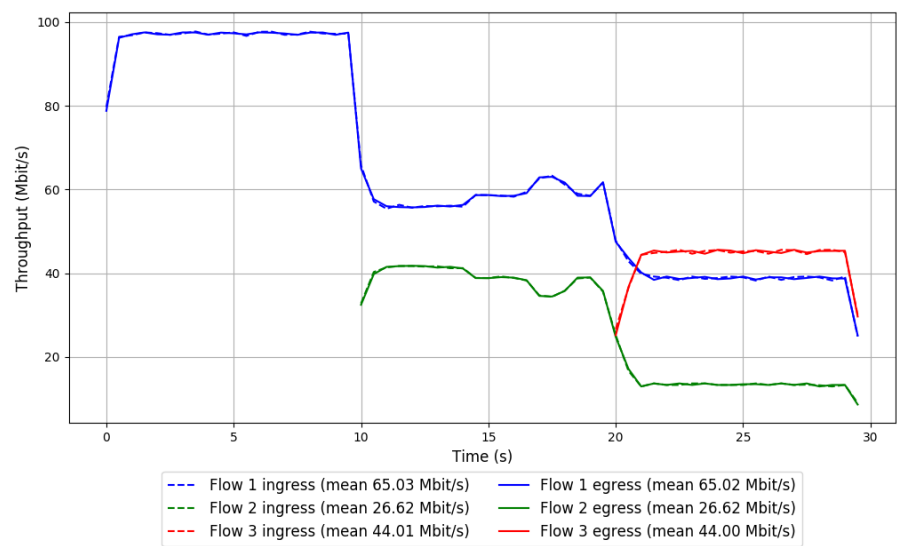
-- Flow 3:

Average throughput: 44.00 Mbit/s

95th percentile per-packet one-way delay: 13.660 ms

Loss rate: 0.14%

Run 8: Report of Indigo — Data Link

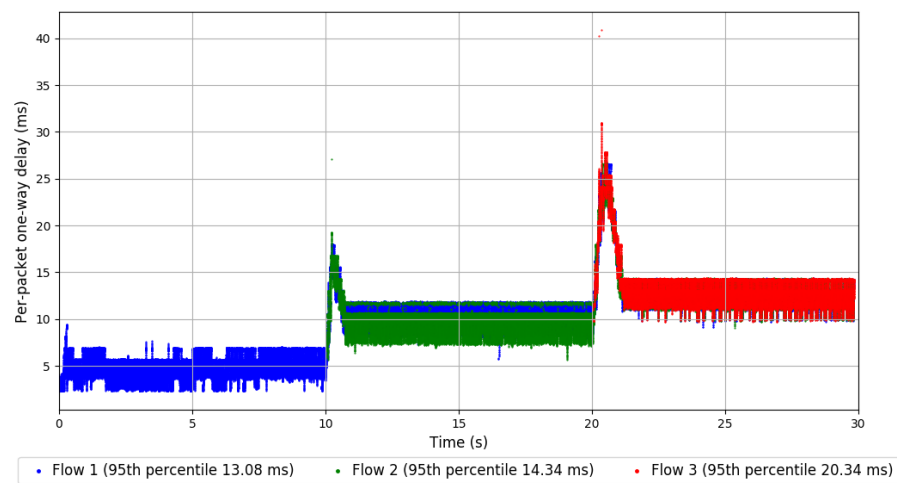
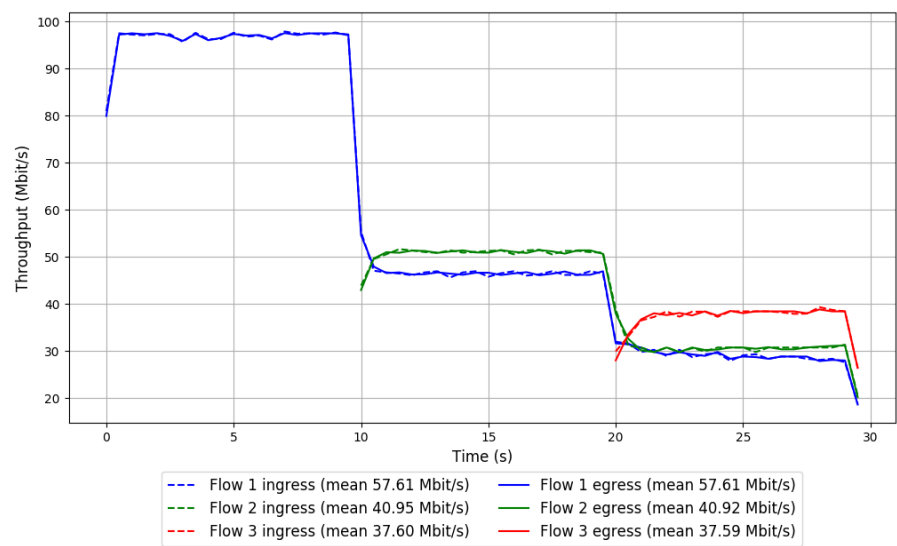


Run 9: Statistics of Indigo

Start at: 2018-01-02 09:47:31
End at: 2018-01-02 09:48:01
Local clock offset: -0.302 ms
Remote clock offset: 0.724 ms

Below is generated by plot.py at 2018-01-02 13:16:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 14.213 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 57.61 Mbit/s
95th percentile per-packet one-way delay: 13.080 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 14.339 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 20.339 ms
Loss rate: 0.16%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 10:04:28

End at: 2018-01-02 10:04:58

Local clock offset: -0.352 ms

Remote clock offset: 0.744 ms

Below is generated by plot.py at 2018-01-02 13:16:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 11.809 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 58.68 Mbit/s

95th percentile per-packet one-way delay: 11.683 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 45.17 Mbit/s

95th percentile per-packet one-way delay: 12.943 ms

Loss rate: 0.05%

-- Flow 3:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 11.855 ms

Loss rate: 0.14%

Run 10: Report of Indigo — Data Link

