

Pantheon Report

Generated at 2018-02-03 05:22:19 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

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

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

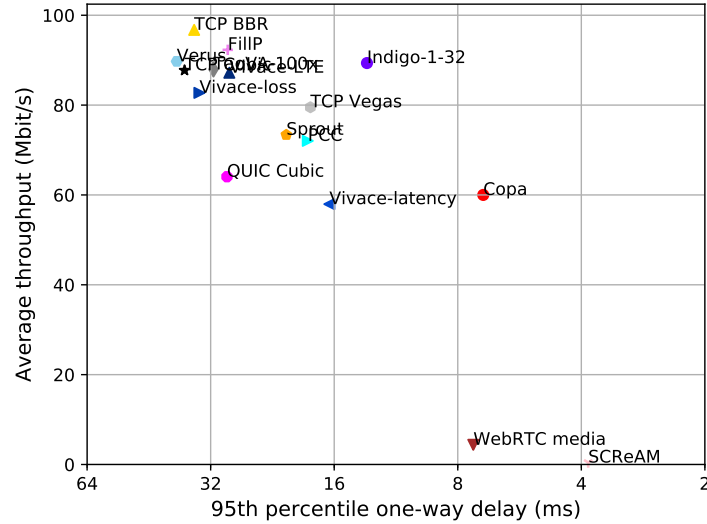
Tested BBR with qdisc of Fair Queuing (*fq*), and other schemes with the default Linux qdisc (*pfifo_fast*).

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

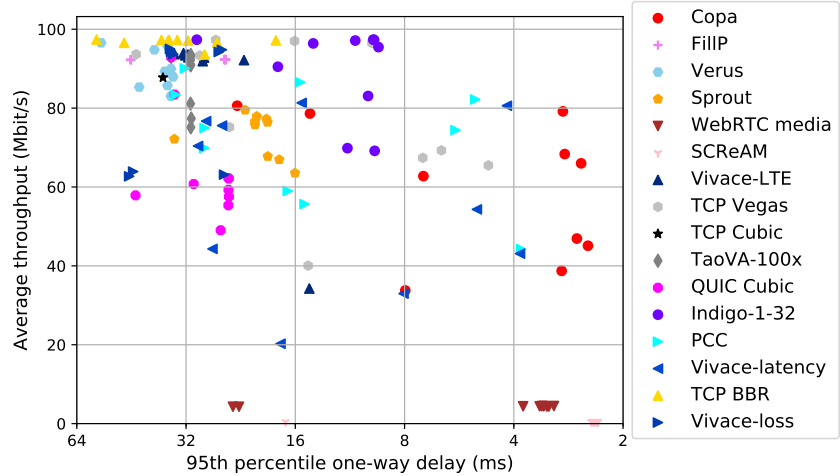
Git summary:

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

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



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



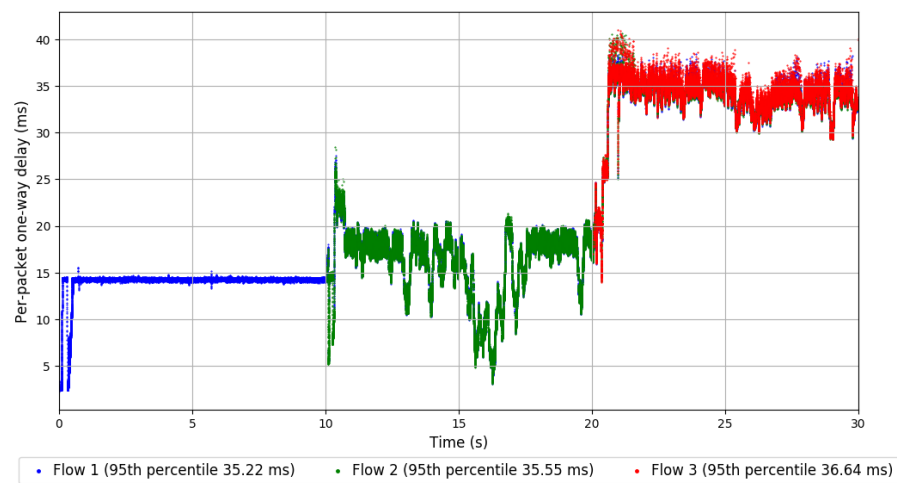
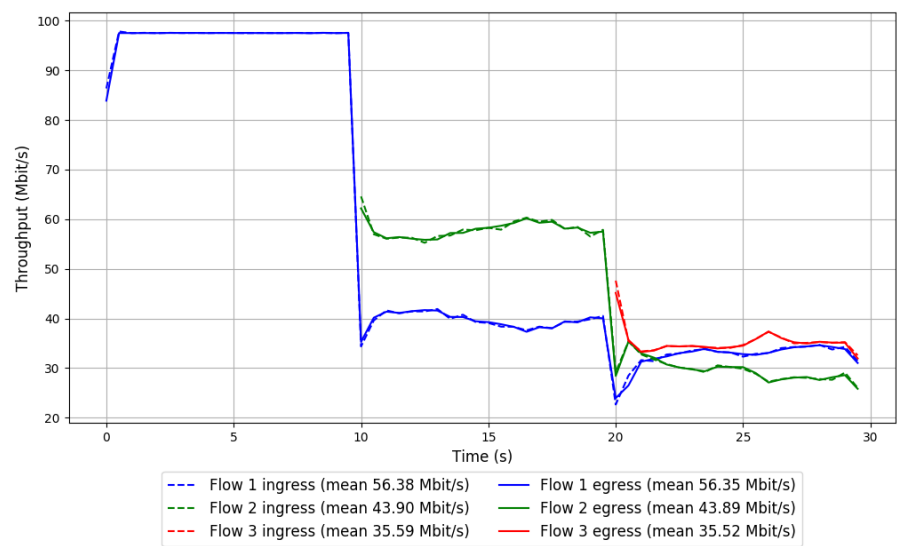
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	53.91	46.04	36.93	33.64	35.11	35.47	0.08	0.13	0.33
TCP Cubic	1	37.95	55.35	39.23	35.72	36.98	38.10	0.11	0.39	1.51
LEDBAT	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC	10	48.14	31.32	9.33	18.31	19.20	17.55	0.02	0.05	0.05
QUIC Cubic	10	11.04	59.53	42.35	11.58	29.19	29.34	0.01	0.10	0.30
SCReAM	10	0.22	0.22	0.22	3.85	3.84	3.86	0.00	0.00	0.00
WebRTC media	10	2.33	1.46	0.62	7.31	7.33	7.39	0.00	0.03	0.08
Sprout	10	40.28	35.00	29.87	19.93	21.08	22.36	0.04	0.05	0.17
TaoVA-100x	10	52.05	38.10	31.86	31.09	31.50	31.60	0.08	0.14	0.32
TCP Vegas	10	38.22	40.98	42.33	19.39	16.36	16.66	0.04	0.02	0.04
Verus	10	56.46	34.14	32.21	37.17	39.08	39.90	0.08	0.16	0.36
Copa	10	29.08	33.69	25.63	6.87	6.94	7.23	0.02	0.02	0.04
FillP	10	55.88	39.34	31.04	28.25	29.26	29.97	0.12	2.25	5.46
Indigo-1-32	10	40.31	46.51	54.99	12.50	13.47	13.85	0.01	0.03	0.11
Vivace-latency	10	35.92	21.39	23.74	13.15	15.27	18.48	0.03	0.04	0.12
Vivace-loss	8	42.23	43.02	37.93	33.62	34.14	34.55	0.31	1.24	2.90
Vivace-LTE	10	57.52	29.39	30.92	26.71	28.97	30.24	0.03	0.07	0.22

```
Run 1: Statistics of TCP BBR

Start at: 2018-02-02 22:06:35
End at: 2018-02-02 22:07:05
Local clock offset: 0.22 ms
Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2018-02-03 05:00:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.28 Mbit/s
95th percentile per-packet one-way delay: 35.672 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 35.215 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 43.89 Mbit/s
95th percentile per-packet one-way delay: 35.552 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 35.52 Mbit/s
95th percentile per-packet one-way delay: 36.640 ms
Loss rate: 0.44%
```


Run 1: Report of TCP BBR — Data Link

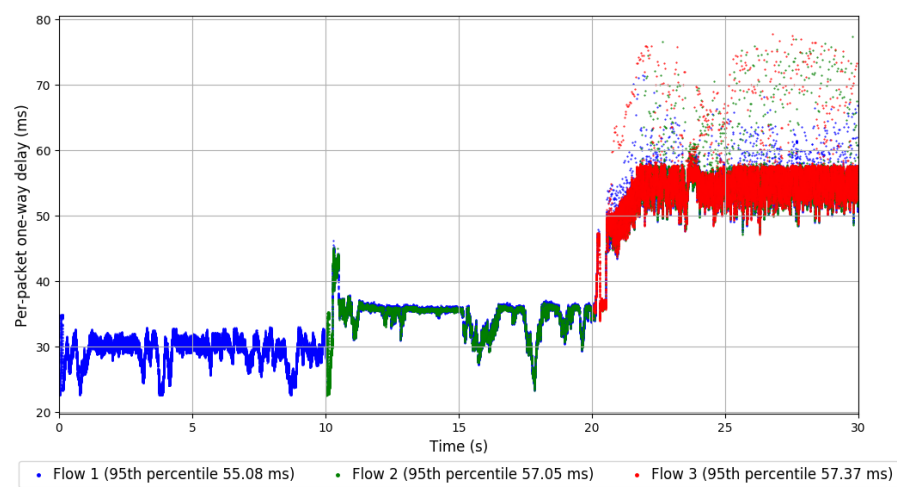
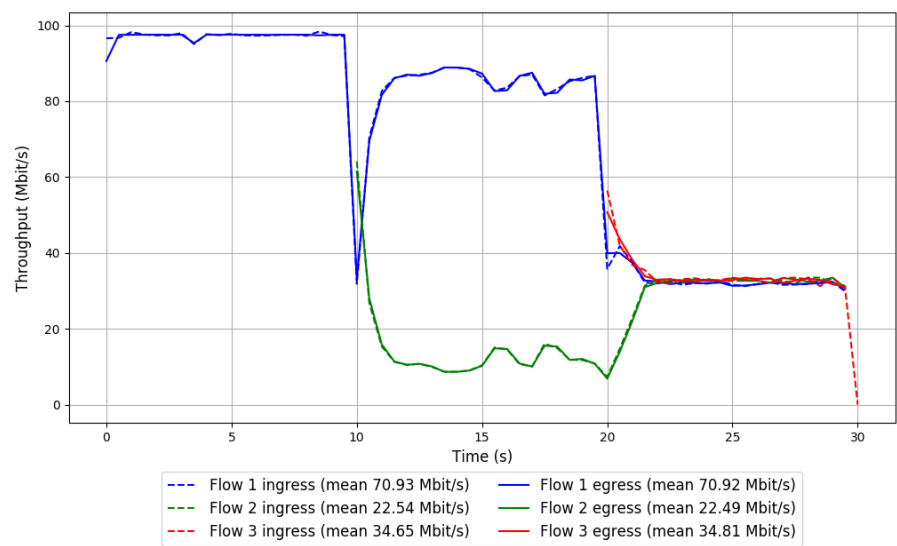


Run 2: Statistics of TCP BBR

Start at: 2018-02-02 22:26:58
End at: 2018-02-02 22:27:28
Local clock offset: 0.232 ms
Remote clock offset: -20.019 ms

Below is generated by plot.py at 2018-02-03 05:00:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.40 Mbit/s
95th percentile per-packet one-way delay: 56.473 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 70.92 Mbit/s
95th percentile per-packet one-way delay: 55.082 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 22.49 Mbit/s
95th percentile per-packet one-way delay: 57.052 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 57.374 ms
Loss rate: 0.55%

Run 2: Report of TCP BBR — Data Link

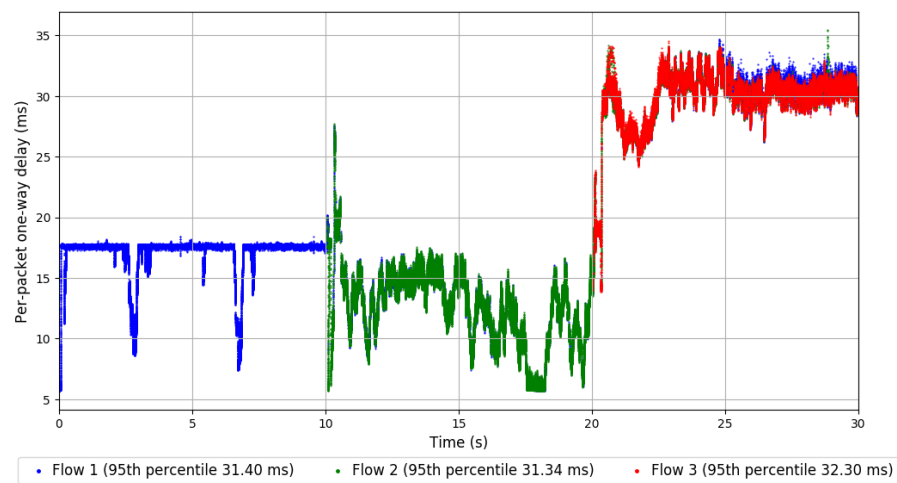
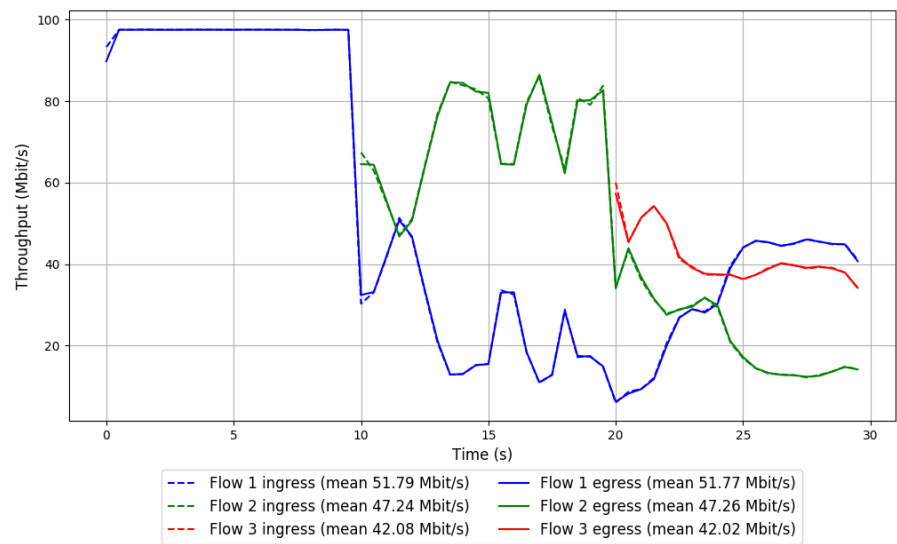


Run 3: Statistics of TCP BBR

Start at: 2018-02-02 22:47:14
End at: 2018-02-02 22:47:44
Local clock offset: 0.252 ms
Remote clock offset: -3.141 ms

Below is generated by plot.py at 2018-02-03 05:00:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 31.601 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 51.77 Mbit/s
95th percentile per-packet one-way delay: 31.401 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 31.339 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 32.299 ms
Loss rate: 0.27%

Run 3: Report of TCP BBR — Data Link

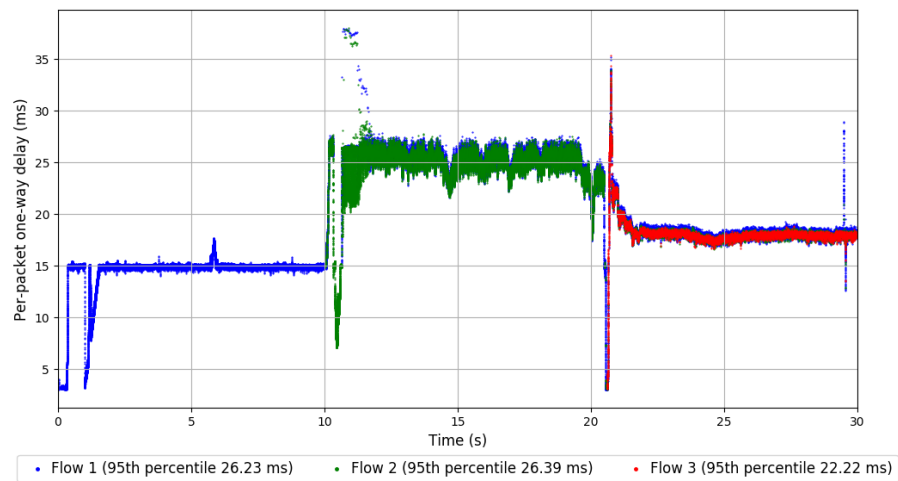
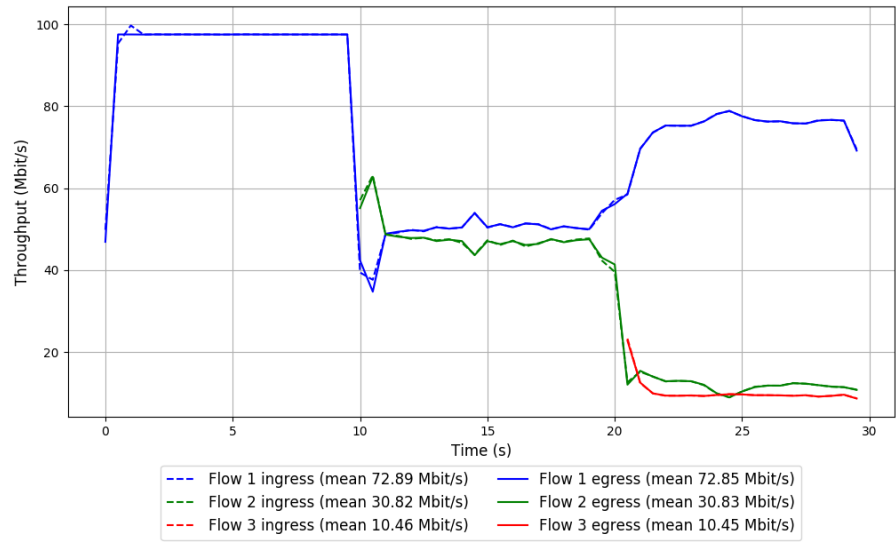


Run 4: Statistics of TCP BBR

Start at: 2018-02-02 23:07:34
End at: 2018-02-02 23:08:04
Local clock offset: 0.3 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-02-03 05:00:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.62 Mbit/s
95th percentile per-packet one-way delay: 26.283 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 26.231 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 26.386 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 22.224 ms
Loss rate: 0.20%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-02 23:27:58

End at: 2018-02-02 23:28:28

Local clock offset: 0.212 ms

Remote clock offset: 0.78 ms

Below is generated by plot.py at 2018-02-03 05:00:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.16 Mbit/s

95th percentile per-packet one-way delay: 35.858 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 46.84 Mbit/s

95th percentile per-packet one-way delay: 35.351 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 58.78 Mbit/s

95th percentile per-packet one-way delay: 35.971 ms

Loss rate: 0.10%

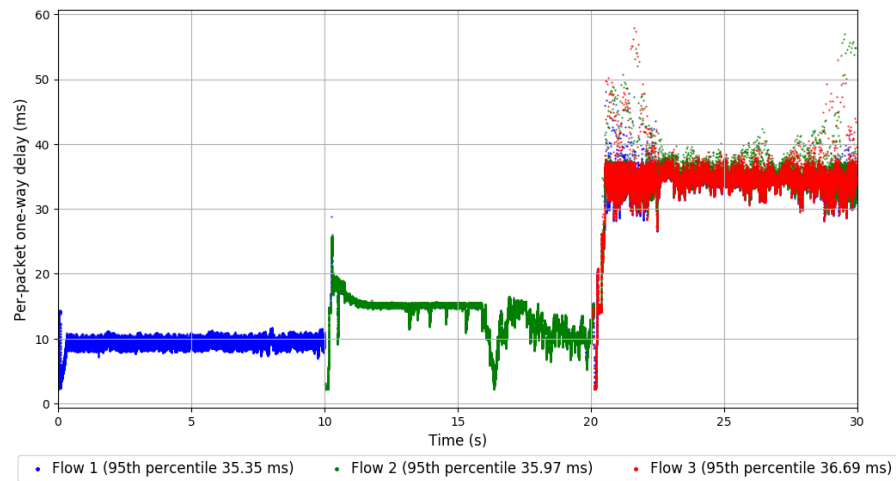
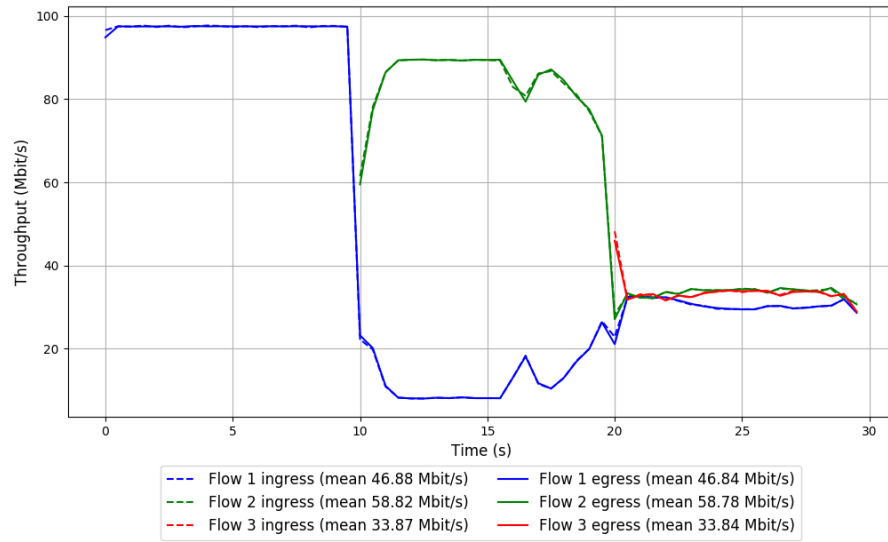
-- Flow 3:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 36.687 ms

Loss rate: 0.32%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-02 23:48:25

End at: 2018-02-02 23:48:55

Local clock offset: 0.261 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-02-03 05:00:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 37.407 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 48.07 Mbit/s

95th percentile per-packet one-way delay: 37.169 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 56.83 Mbit/s

95th percentile per-packet one-way delay: 37.278 ms

Loss rate: 0.15%

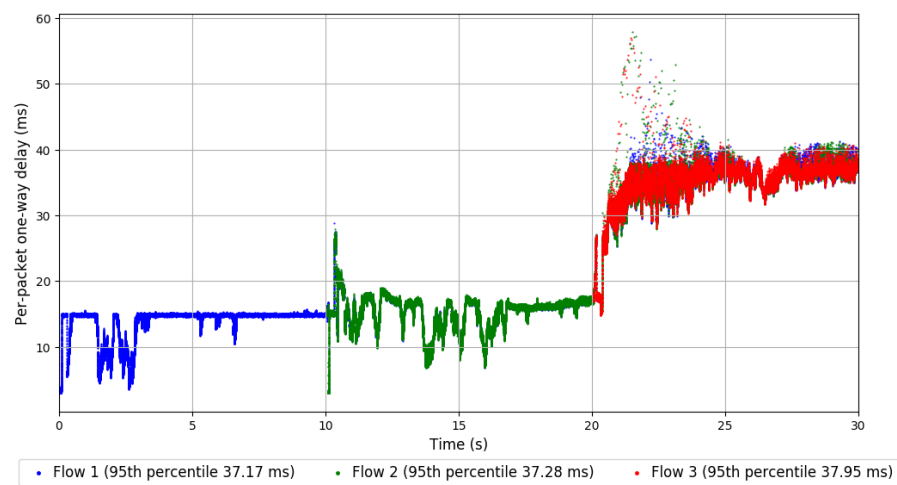
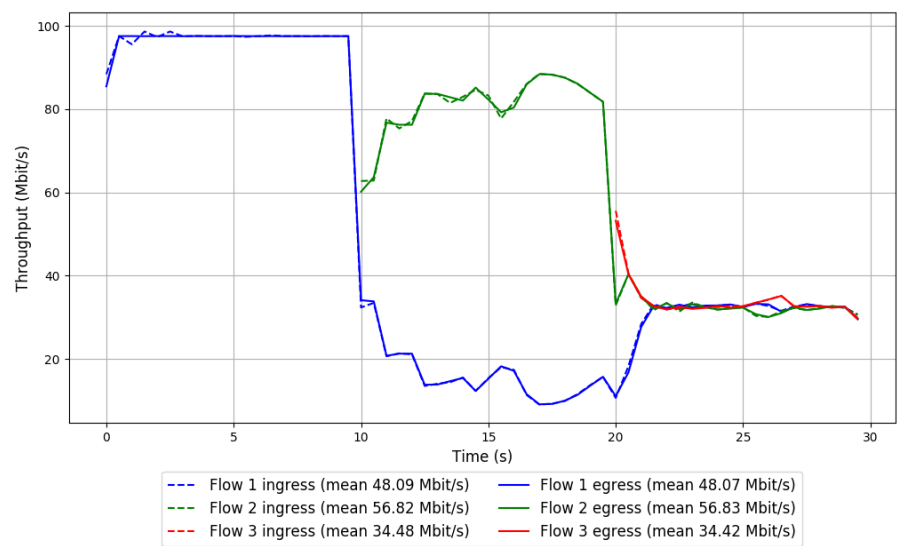
-- Flow 3:

Average throughput: 34.42 Mbit/s

95th percentile per-packet one-way delay: 37.955 ms

Loss rate: 0.40%

Run 6: Report of TCP BBR — Data Link

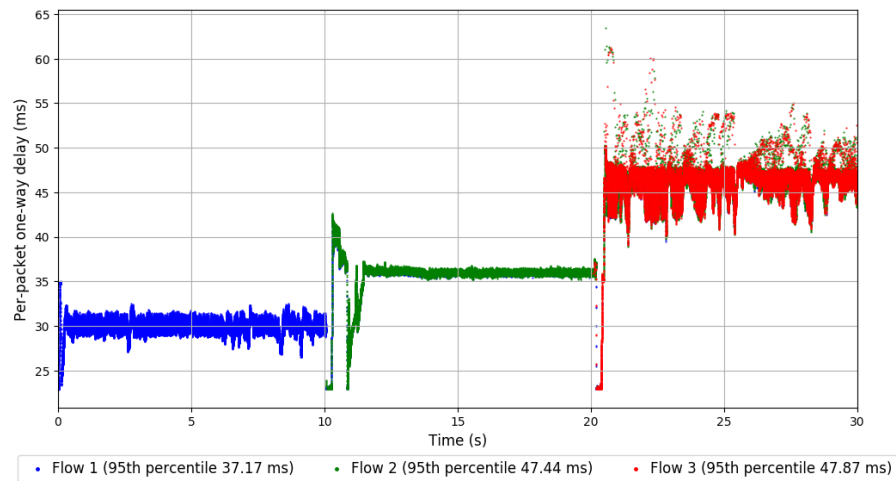
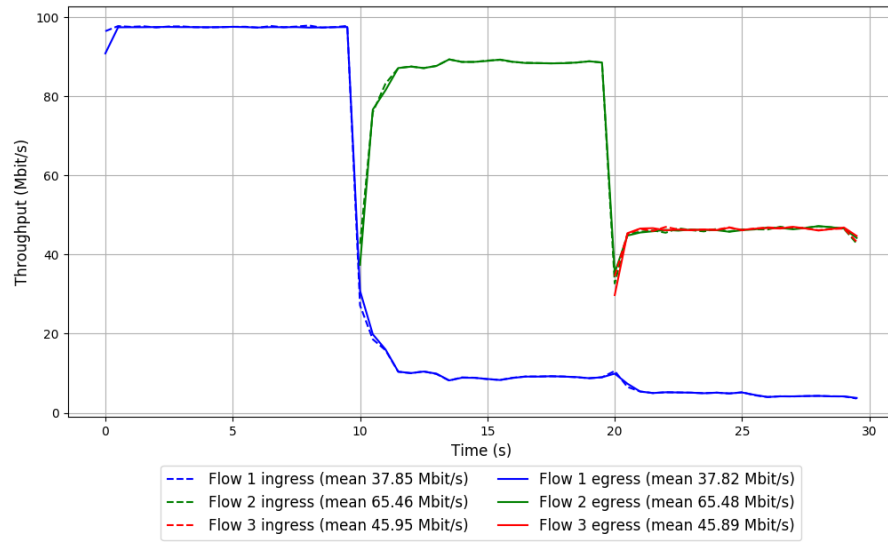


Run 7: Statistics of TCP BBR

Start at: 2018-02-03 00:08:43
End at: 2018-02-03 00:09:13
Local clock offset: 0.202 ms
Remote clock offset: -19.392 ms

Below is generated by plot.py at 2018-02-03 05:00:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 47.394 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 37.82 Mbit/s
95th percentile per-packet one-way delay: 37.174 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 65.48 Mbit/s
95th percentile per-packet one-way delay: 47.439 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 45.89 Mbit/s
95th percentile per-packet one-way delay: 47.865 ms
Loss rate: 0.38%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-03 00:29:01

End at: 2018-02-03 00:29:31

Local clock offset: 0.135 ms

Remote clock offset: 1.622 ms

Below is generated by plot.py at 2018-02-03 05:00:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.59 Mbit/s

95th percentile per-packet one-way delay: 28.433 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 28.169 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 24.33 Mbit/s

95th percentile per-packet one-way delay: 28.661 ms

Loss rate: 0.27%

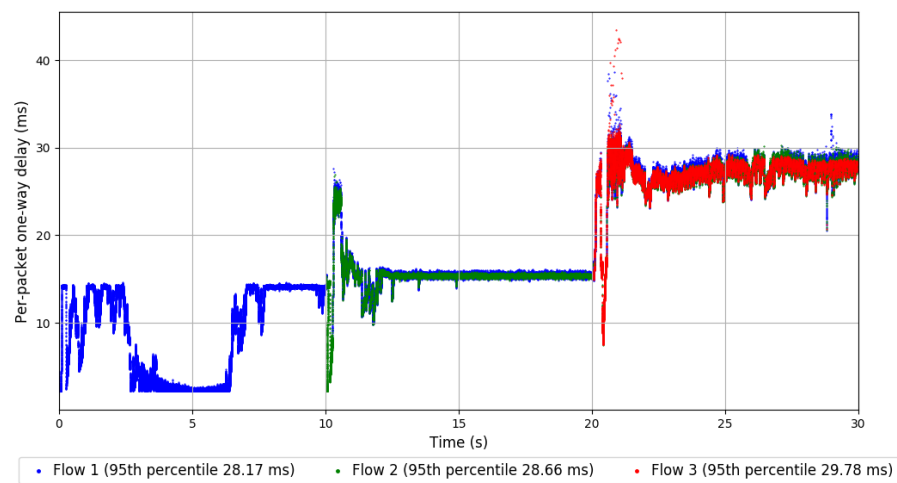
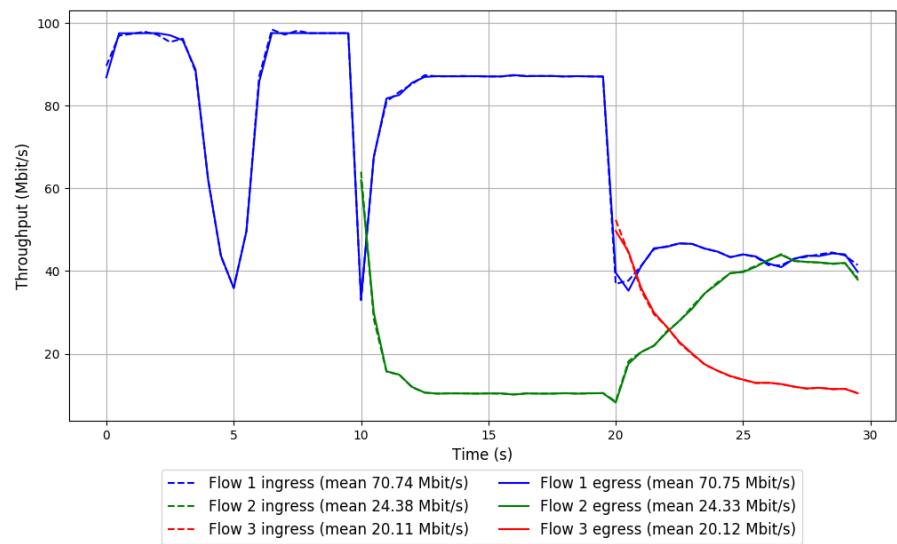
-- Flow 3:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 29.782 ms

Loss rate: 0.17%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-03 00:49:30

End at: 2018-02-03 00:50:00

Local clock offset: 0.207 ms

Remote clock offset: 1.431 ms

Below is generated by plot.py at 2018-02-03 05:01:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.17 Mbit/s

95th percentile per-packet one-way delay: 18.097 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 17.070 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 51.84 Mbit/s

95th percentile per-packet one-way delay: 17.918 ms

Loss rate: 0.03%

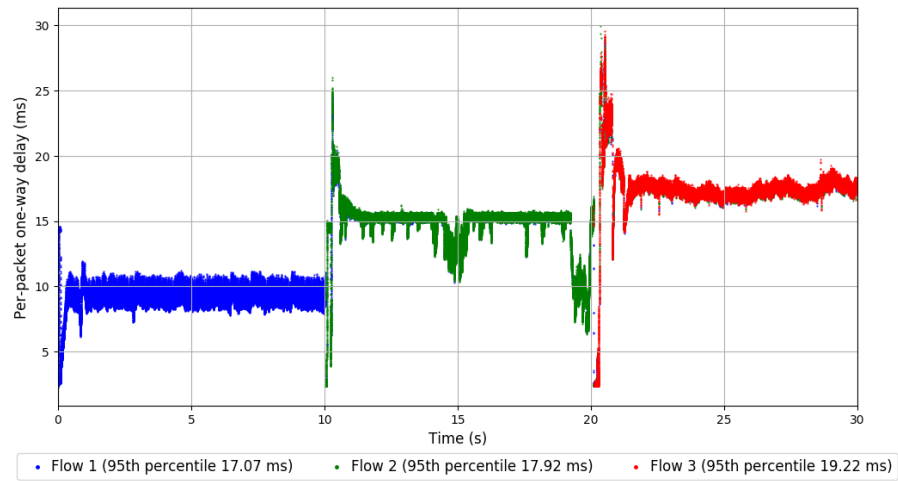
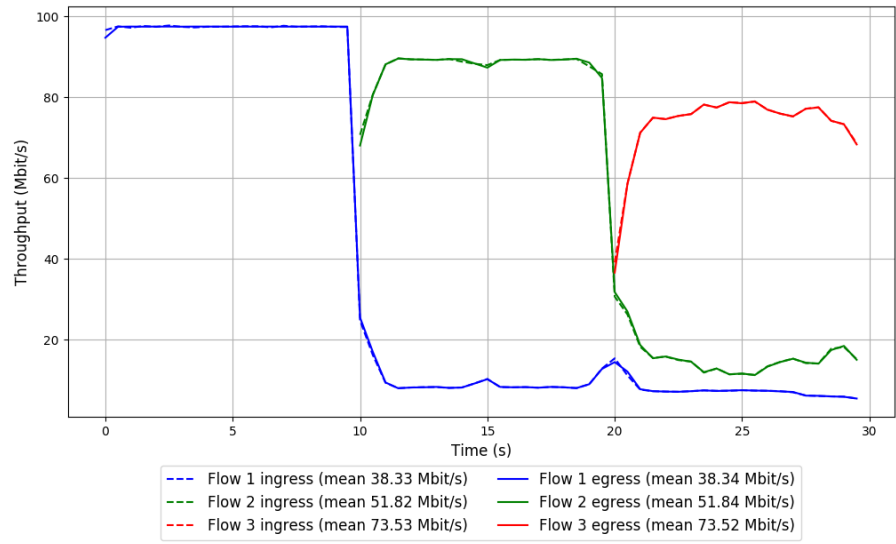
-- Flow 3:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 19.222 ms

Loss rate: 0.20%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-03 01:09:54

End at: 2018-02-03 01:10:24

Local clock offset: 0.16 ms

Remote clock offset: 1.139 ms

Below is generated by plot.py at 2018-02-03 05:01:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 33.824 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 45.43 Mbit/s

95th percentile per-packet one-way delay: 33.502 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 58.65 Mbit/s

95th percentile per-packet one-way delay: 33.474 ms

Loss rate: 0.07%

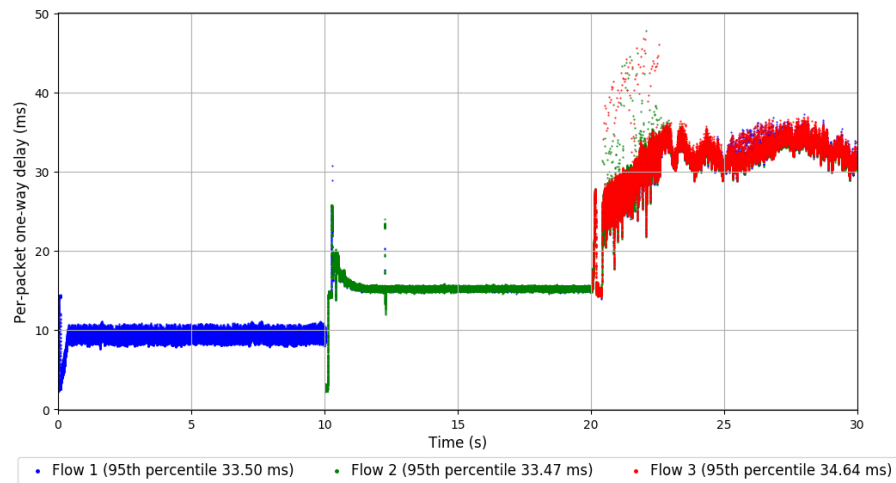
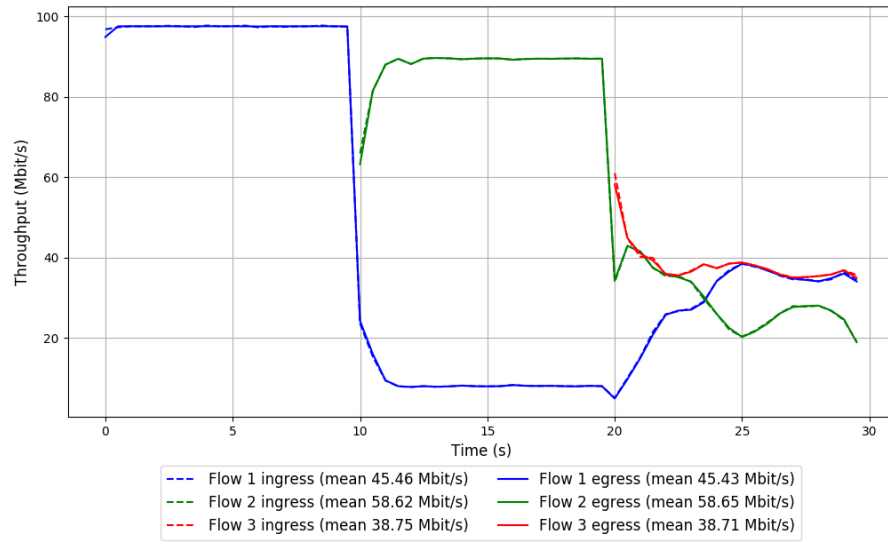
-- Flow 3:

Average throughput: 38.71 Mbit/s

95th percentile per-packet one-way delay: 34.636 ms

Loss rate: 0.40%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-02 22:07:43

End at: 2018-02-02 22:08:13

Local clock offset: 0.2 ms

Remote clock offset: 0.244 ms

Run 1: Report of TCP Cubic — Data Link

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Run 2: Statistics of TCP Cubic

Start at: 2018-02-02 22:28:06

End at: 2018-02-02 22:28:36

Local clock offset: 0.243 ms

Remote clock offset: 0.256 ms

Run 2: Report of TCP Cubic — Data Link

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Run 3: Statistics of TCP Cubic

Start at: 2018-02-02 22:48:22

End at: 2018-02-02 22:48:52

Local clock offset: 0.267 ms

Remote clock offset: -7.632 ms

Run 3: Report of TCP Cubic — Data Link

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Run 4: Statistics of TCP Cubic

Start at: 2018-02-02 23:08:42

End at: 2018-02-02 23:09:12

Local clock offset: 0.281 ms

Remote clock offset: -7.965 ms

Run 4: Report of TCP Cubic — Data Link

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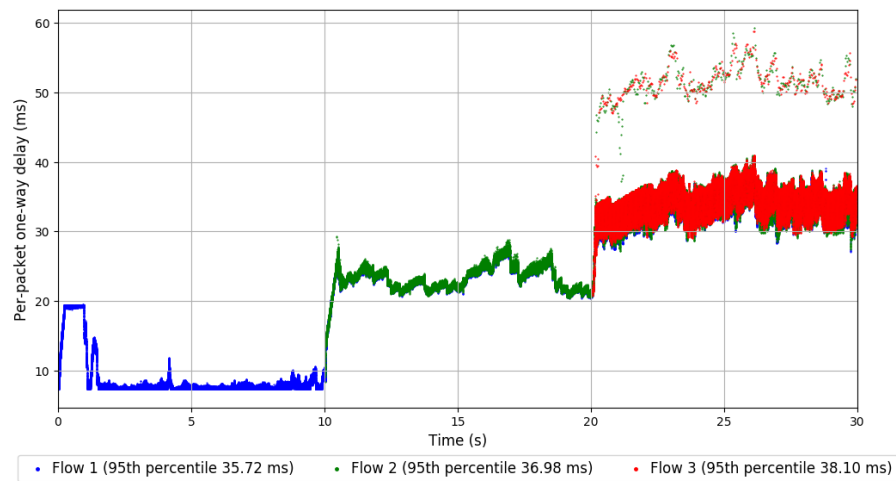
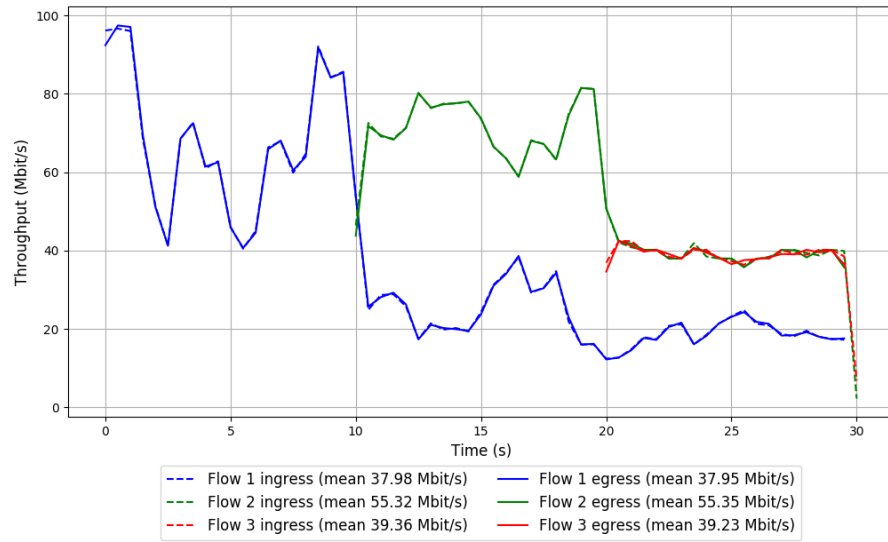
Figure is missing

Run 5: Statistics of TCP Cubic

Start at: 2018-02-02 23:29:06
End at: 2018-02-02 23:29:36
Local clock offset: 0.213 ms
Remote clock offset: -4.288 ms

Below is generated by plot.py at 2018-02-03 05:01:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.74 Mbit/s
95th percentile per-packet one-way delay: 37.047 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 37.95 Mbit/s
95th percentile per-packet one-way delay: 35.723 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 36.983 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 39.23 Mbit/s
95th percentile per-packet one-way delay: 38.101 ms
Loss rate: 1.51%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-02 23:49:33

End at: 2018-02-02 23:50:03

Local clock offset: 0.271 ms

Remote clock offset: -19.038 ms

Run 6: Report of TCP Cubic — Data Link

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Run 7: Statistics of TCP Cubic

Start at: 2018-02-03 00:09:51

End at: 2018-02-03 00:10:21

Local clock offset: 0.244 ms

Remote clock offset: -18.916 ms

Run 7: Report of TCP Cubic — Data Link

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Run 8: Statistics of TCP Cubic

Start at: 2018-02-03 00:30:09

End at: 2018-02-03 00:30:39

Local clock offset: 0.192 ms

Remote clock offset: 1.524 ms

Run 8: Report of TCP Cubic — Data Link

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Run 9: Statistics of TCP Cubic

Start at: 2018-02-03 00:50:38

End at: 2018-02-03 00:51:08

Local clock offset: 0.227 ms

Remote clock offset: 1.465 ms

Run 9: Report of TCP Cubic — Data Link

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Run 10: Statistics of TCP Cubic

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

End at: 2018-02-03 01:11:32

Local clock offset: 0.1 ms

Remote clock offset: 1.067 ms

Run 10: Report of TCP Cubic — Data Link

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Run 1: Statistics of LEDBAT

Start at: 2018-02-02 22:12:23

End at: 2018-02-02 22:12:53

Local clock offset: 0.185 ms

Remote clock offset: -19.948 ms

Run 1: Report of LEDBAT — Data Link

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Run 2: Statistics of LEDBAT

Start at: 2018-02-02 22:32:41

End at: 2018-02-02 22:33:11

Local clock offset: 0.185 ms

Remote clock offset: 0.296 ms

Run 2: Report of LEDBAT — Data Link

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Run 3: Statistics of LEDBAT

Start at: 2018-02-02 22:52:56

End at: 2018-02-02 22:53:26

Local clock offset: 0.297 ms

Remote clock offset: 0.233 ms

Run 3: Report of LEDBAT — Data Link

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Run 4: Statistics of LEDBAT

Start at: 2018-02-02 23:13:20

End at: 2018-02-02 23:13:50

Local clock offset: 0.302 ms

Remote clock offset: -4.113 ms

Run 4: Report of LEDBAT — Data Link

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Run 5: Statistics of LEDBAT

Start at: 2018-02-02 23:33:45

End at: 2018-02-02 23:34:15

Local clock offset: 0.276 ms

Remote clock offset: 0.757 ms

Run 5: Report of LEDBAT — Data Link

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Run 6: Statistics of LEDBAT

Start at: 2018-02-02 23:54:08

End at: 2018-02-02 23:54:38

Local clock offset: 0.244 ms

Remote clock offset: 1.04 ms

Run 6: Report of LEDBAT — Data Link

Figure is missing

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Run 7: Statistics of LEDBAT

Start at: 2018-02-03 00:14:26

End at: 2018-02-03 00:14:56

Local clock offset: 0.209 ms

Remote clock offset: 1.316 ms

Run 7: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of LEDBAT

Start at: 2018-02-03 00:34:44

End at: 2018-02-03 00:35:14

Local clock offset: 0.193 ms

Remote clock offset: 1.655 ms

Run 8: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of LEDBAT

Start at: 2018-02-03 00:55:15

End at: 2018-02-03 00:55:45

Local clock offset: 0.202 ms

Remote clock offset: 1.271 ms

Run 9: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of LEDBAT

Start at: 2018-02-03 01:15:40

End at: 2018-02-03 01:16:10

Local clock offset: 0.098 ms

Remote clock offset: -0.537 ms

Run 10: Report of LEDBAT — Data Link

Figure is missing

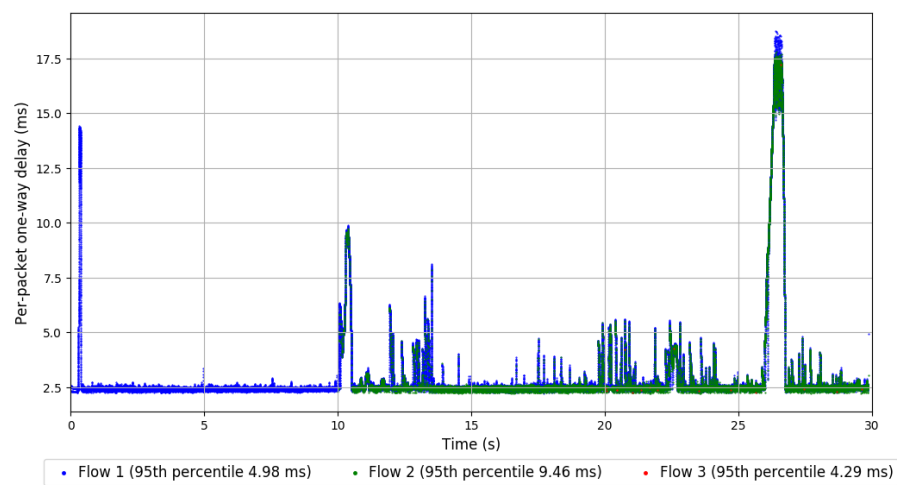
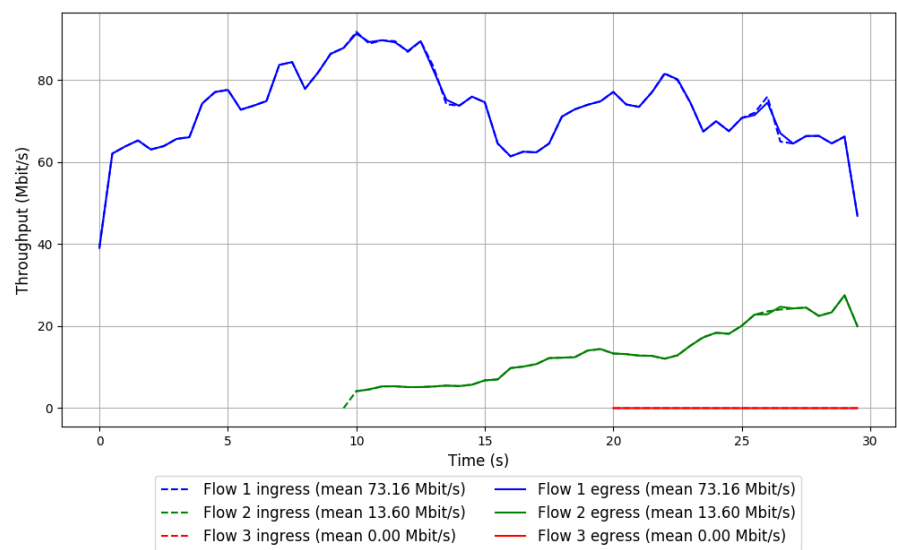
Figure is missing

```
Run 1: Statistics of PCC

Start at: 2018-02-02 22:13:31
End at: 2018-02-02 22:14:01
Local clock offset: 0.215 ms
Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2018-02-03 05:01:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.20 Mbit/s
95th percentile per-packet one-way delay: 5.111 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 73.16 Mbit/s
95th percentile per-packet one-way delay: 4.983 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 9.461 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 4.286 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-02 22:33:48

End at: 2018-02-02 22:34:18

Local clock offset: 0.203 ms

Remote clock offset: 0.238 ms

Below is generated by plot.py at 2018-02-03 05:01:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.67 Mbit/s

95th percentile per-packet one-way delay: 15.086 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 14.667 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 76.47 Mbit/s

95th percentile per-packet one-way delay: 15.085 ms

Loss rate: 0.02%

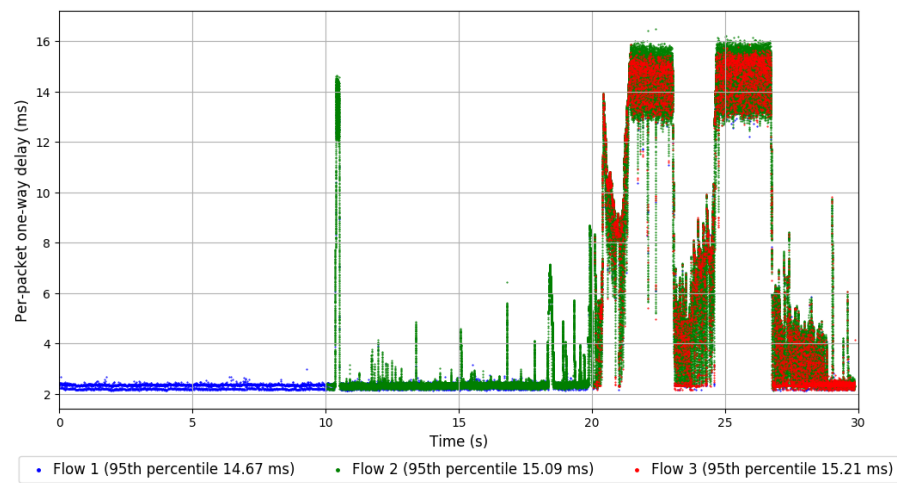
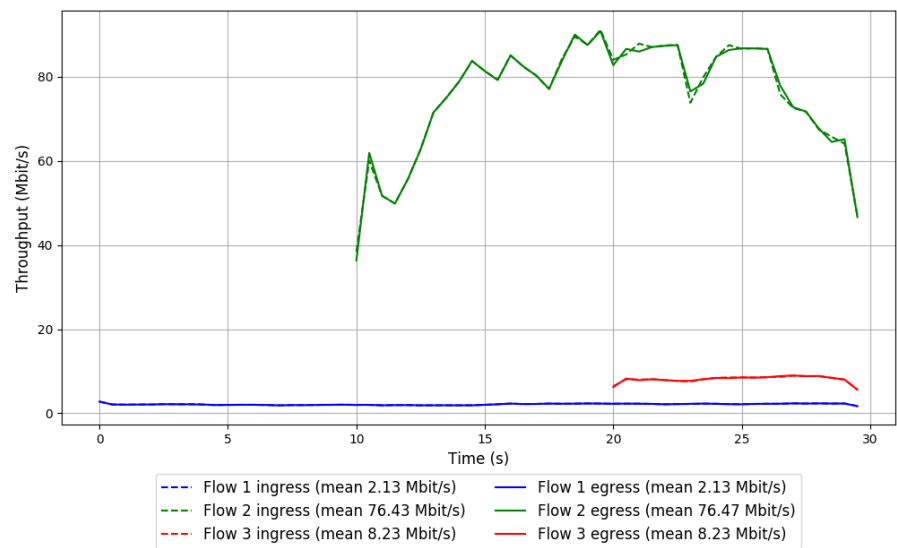
-- Flow 3:

Average throughput: 8.23 Mbit/s

95th percentile per-packet one-way delay: 15.215 ms

Loss rate: 0.03%

Run 2: Report of PCC — Data Link

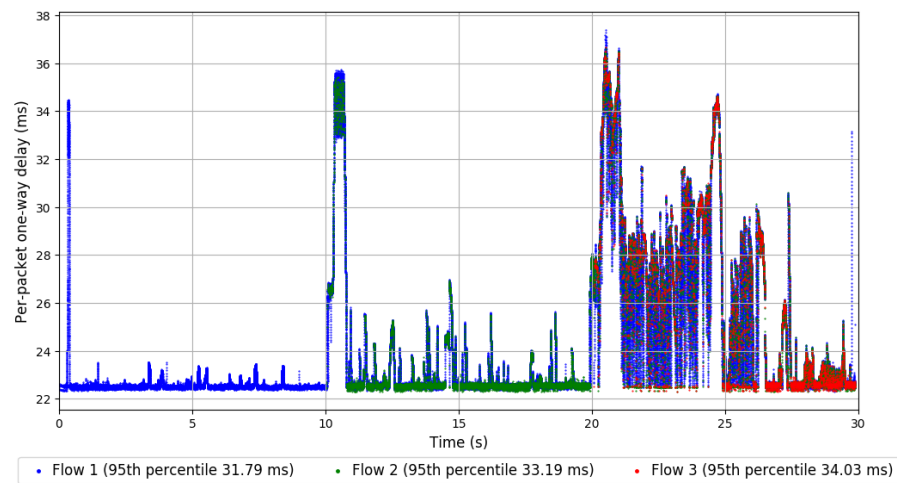
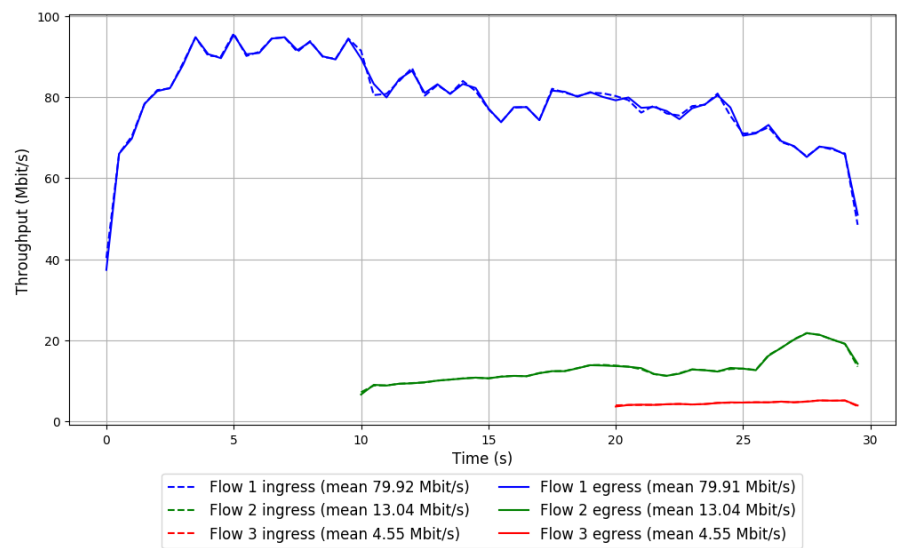


Run 3: Statistics of PCC

Start at: 2018-02-02 22:54:04
End at: 2018-02-02 22:54:34
Local clock offset: 0.298 ms
Remote clock offset: -19.941 ms

Below is generated by plot.py at 2018-02-03 05:01:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 32.237 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.91 Mbit/s
95th percentile per-packet one-way delay: 31.785 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 33.185 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 34.027 ms
Loss rate: 0.06%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-02 23:14:28

End at: 2018-02-02 23:14:58

Local clock offset: 0.292 ms

Remote clock offset: 0.443 ms

Below is generated by plot.py at 2018-02-03 05:01:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 5.789 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 69.27 Mbit/s

95th percentile per-packet one-way delay: 5.688 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 2.74 Mbit/s

95th percentile per-packet one-way delay: 6.301 ms

Loss rate: 0.02%

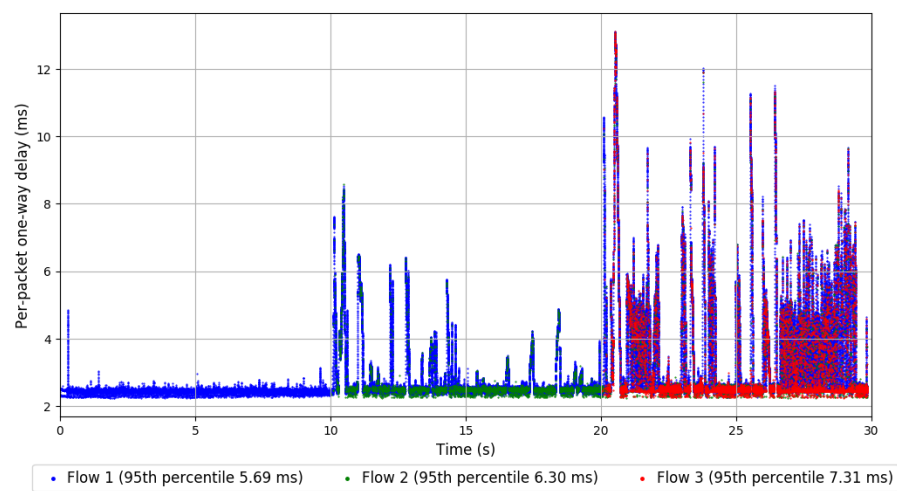
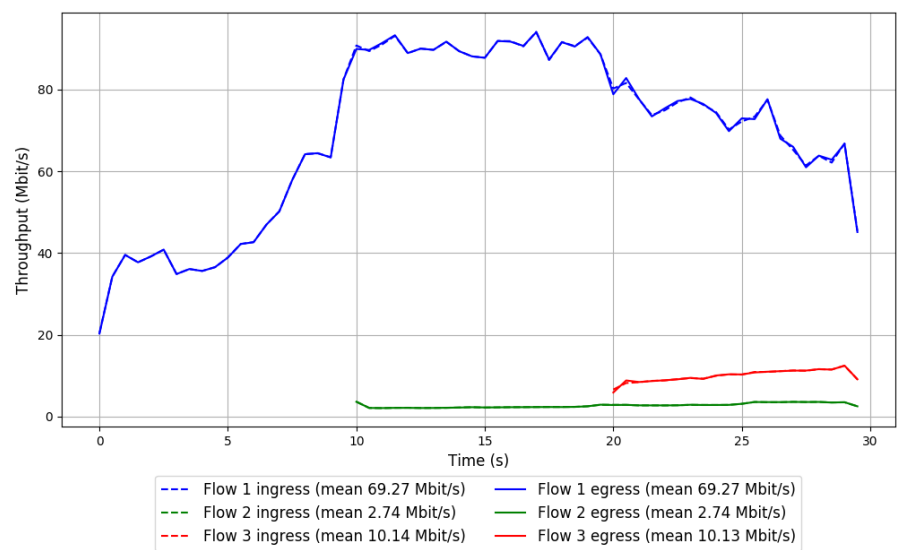
-- Flow 3:

Average throughput: 10.13 Mbit/s

95th percentile per-packet one-way delay: 7.312 ms

Loss rate: 0.04%

Run 4: Report of PCC — Data Link

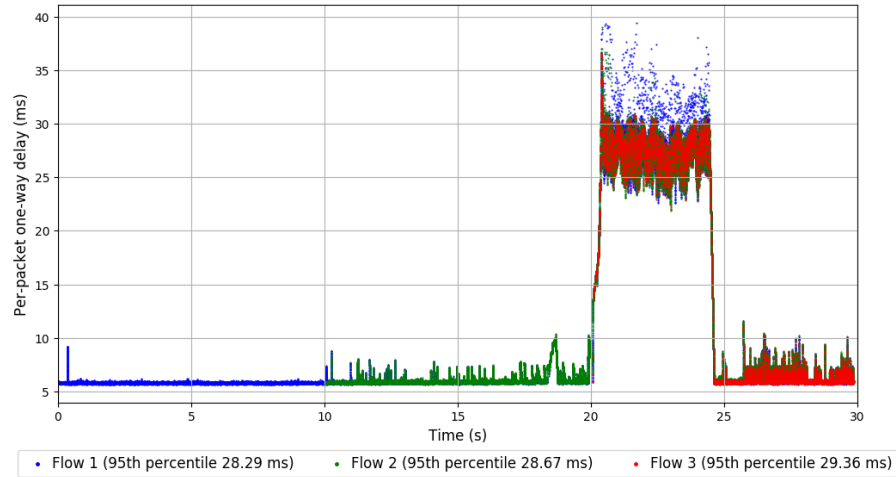
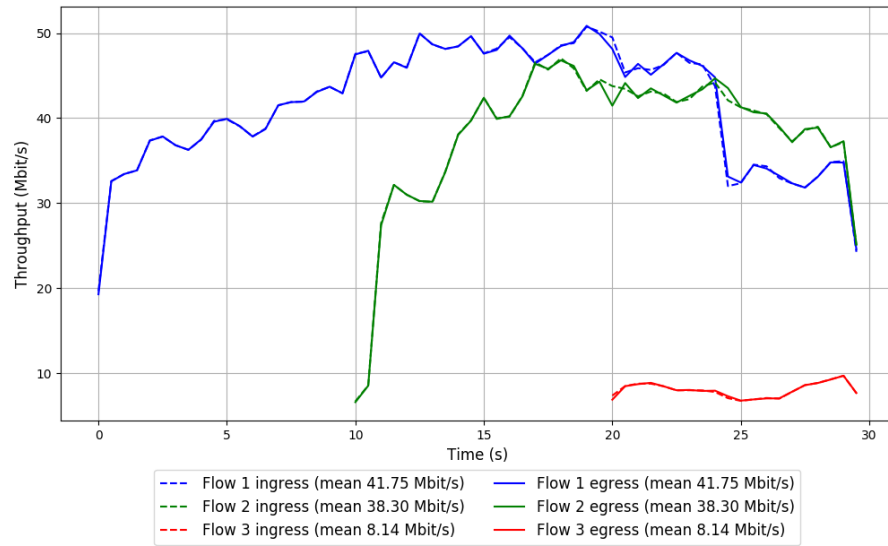


Run 5: Statistics of PCC

Start at: 2018-02-02 23:34:53
End at: 2018-02-02 23:35:23
Local clock offset: 0.225 ms
Remote clock offset: -2.728 ms

Below is generated by plot.py at 2018-02-03 05:01:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.90 Mbit/s
95th percentile per-packet one-way delay: 28.542 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 41.75 Mbit/s
95th percentile per-packet one-way delay: 28.286 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.30 Mbit/s
95th percentile per-packet one-way delay: 28.666 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 29.365 ms
Loss rate: 0.06%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-02 23:55:15

End at: 2018-02-02 23:55:45

Local clock offset: 0.167 ms

Remote clock offset: 1.062 ms

Below is generated by plot.py at 2018-02-03 05:01:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 44.25 Mbit/s

95th percentile per-packet one-way delay: 3.819 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 17.59 Mbit/s

95th percentile per-packet one-way delay: 3.850 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 31.02 Mbit/s

95th percentile per-packet one-way delay: 3.588 ms

Loss rate: 0.09%

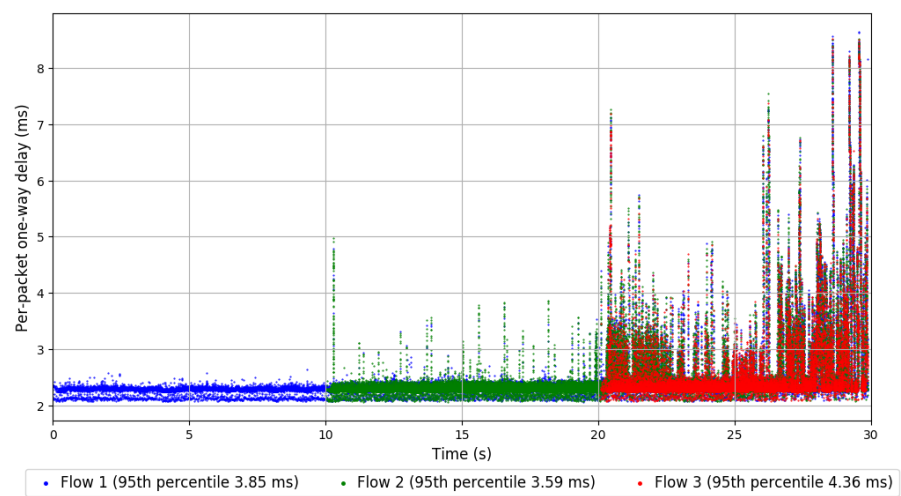
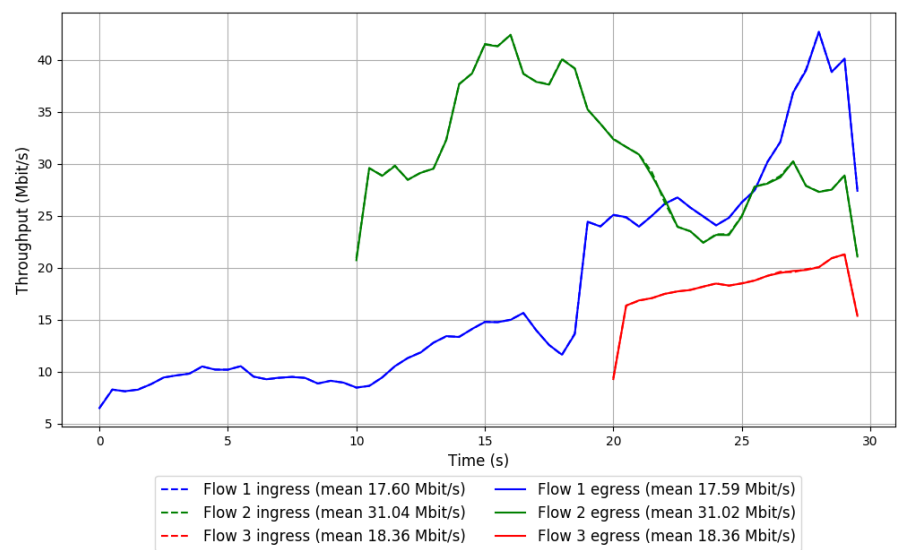
-- Flow 3:

Average throughput: 18.36 Mbit/s

95th percentile per-packet one-way delay: 4.361 ms

Loss rate: 0.05%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-03 00:15:34

End at: 2018-02-03 00:16:04

Local clock offset: 0.197 ms

Remote clock offset: 1.361 ms

Below is generated by plot.py at 2018-02-03 05:02:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 28.448 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 45.41 Mbit/s

95th percentile per-packet one-way delay: 27.721 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 35.20 Mbit/s

95th percentile per-packet one-way delay: 28.795 ms

Loss rate: 0.03%

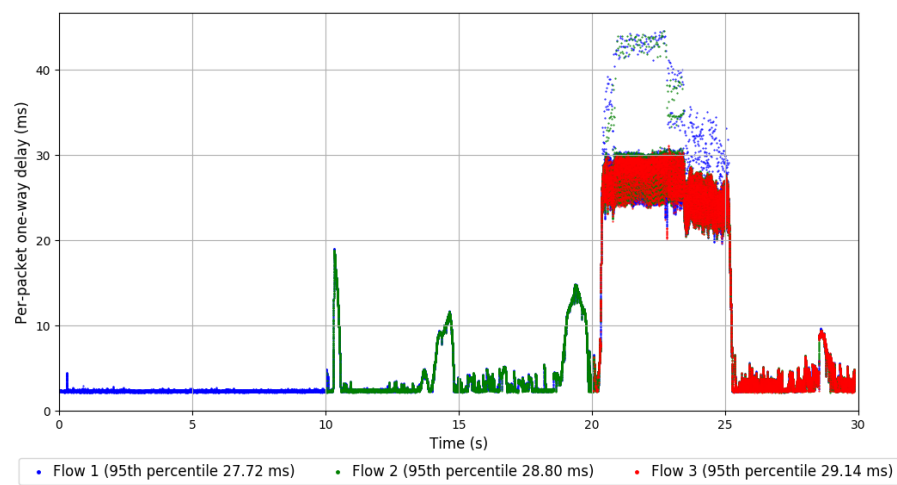
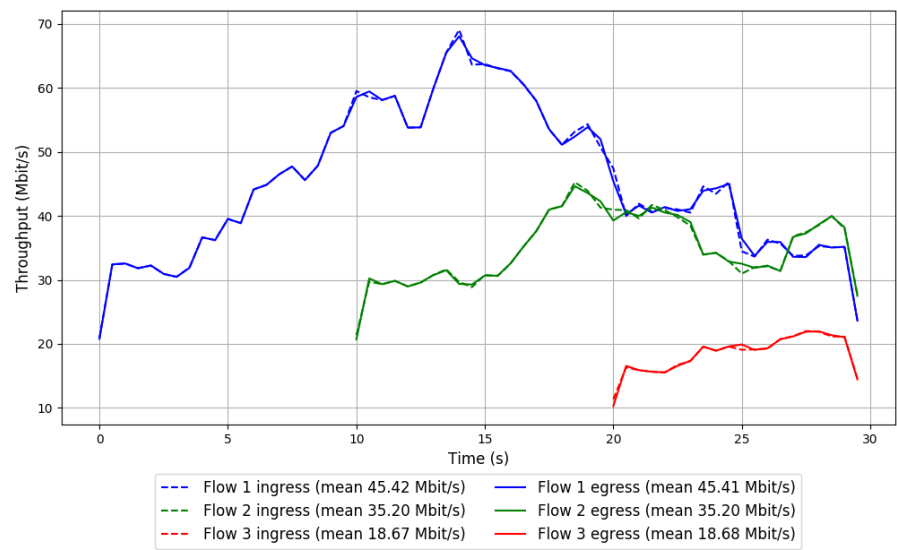
-- Flow 3:

Average throughput: 18.68 Mbit/s

95th percentile per-packet one-way delay: 29.142 ms

Loss rate: 0.06%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-03 00:35:52

End at: 2018-02-03 00:36:22

Local clock offset: 0.189 ms

Remote clock offset: 1.662 ms

Below is generated by plot.py at 2018-02-03 05:02:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.57 Mbit/s

95th percentile per-packet one-way delay: 15.520 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 68.93 Mbit/s

95th percentile per-packet one-way delay: 15.547 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 24.22 Mbit/s

95th percentile per-packet one-way delay: 15.574 ms

Loss rate: 0.15%

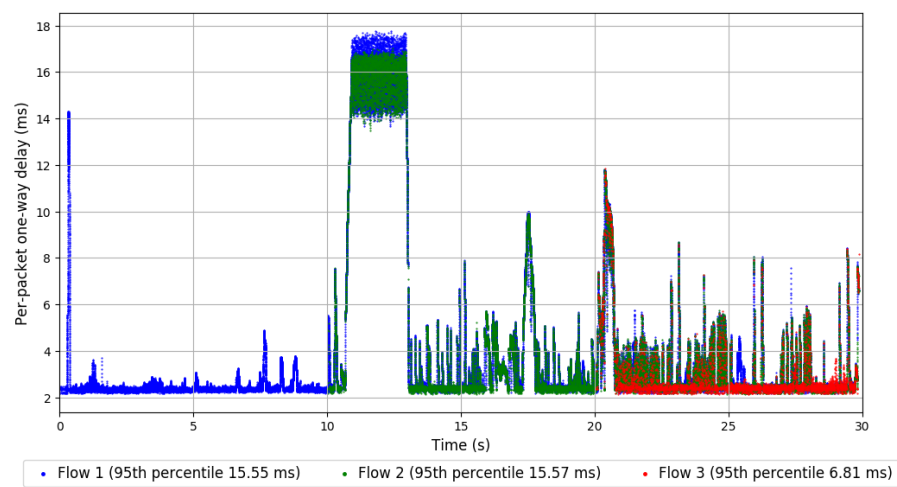
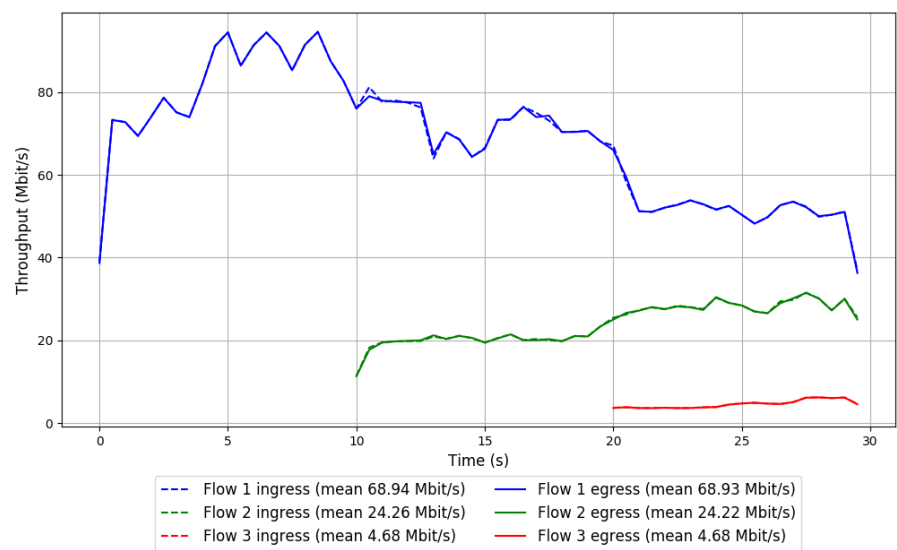
-- Flow 3:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 6.807 ms

Loss rate: 0.08%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-03 00:56:23

End at: 2018-02-03 00:56:53

Local clock offset: 0.202 ms

Remote clock offset: 1.316 ms

Below is generated by plot.py at 2018-02-03 05:02:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 58.98 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 5.62 Mbit/s

95th percentile per-packet one-way delay: 16.379 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 71.00 Mbit/s

95th percentile per-packet one-way delay: 16.770 ms

Loss rate: 0.04%

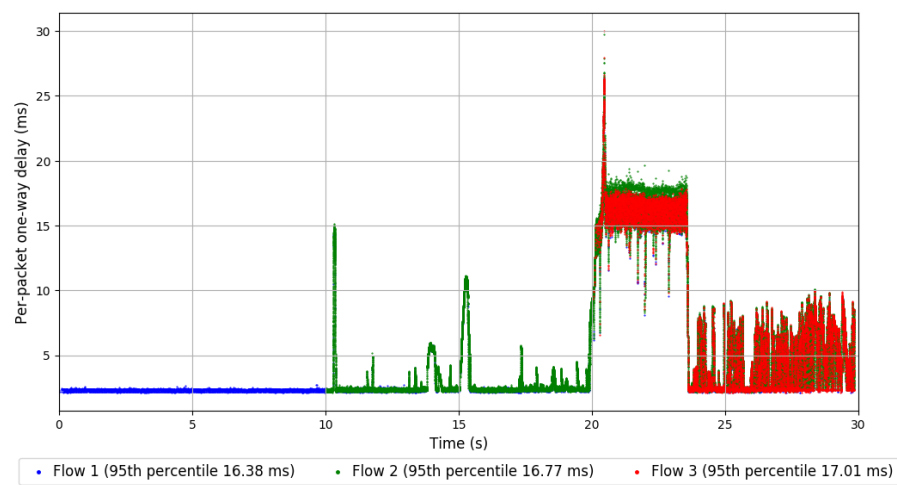
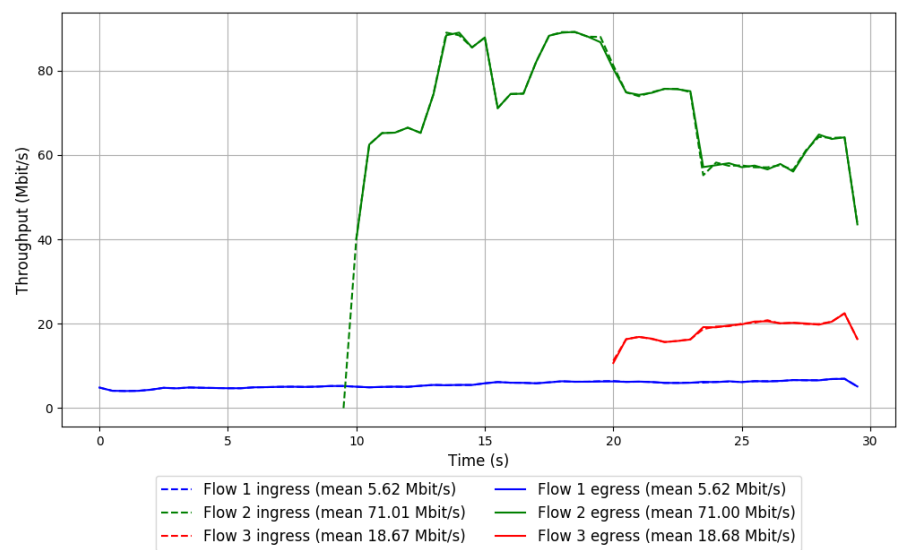
-- Flow 3:

Average throughput: 18.68 Mbit/s

95th percentile per-packet one-way delay: 17.010 ms

Loss rate: 0.07%

Run 9: Report of PCC — Data Link

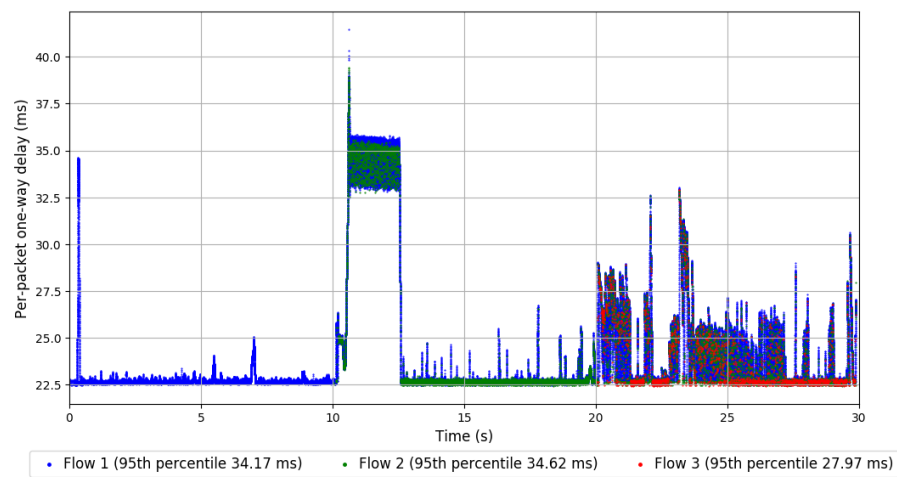
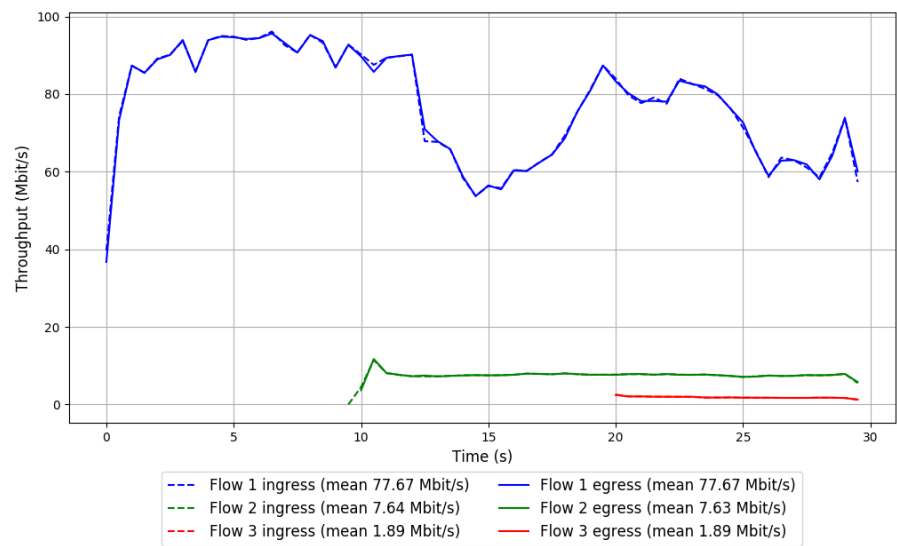


Run 10: Statistics of PCC

Start at: 2018-02-03 01:16:48
End at: 2018-02-03 01:17:18
Local clock offset: 0.186 ms
Remote clock offset: -19.237 ms

Below is generated by plot.py at 2018-02-03 05:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.36 Mbit/s
95th percentile per-packet one-way delay: 34.194 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 77.67 Mbit/s
95th percentile per-packet one-way delay: 34.170 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 34.615 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 27.968 ms
Loss rate: 0.06%

Run 10: Report of PCC — Data Link

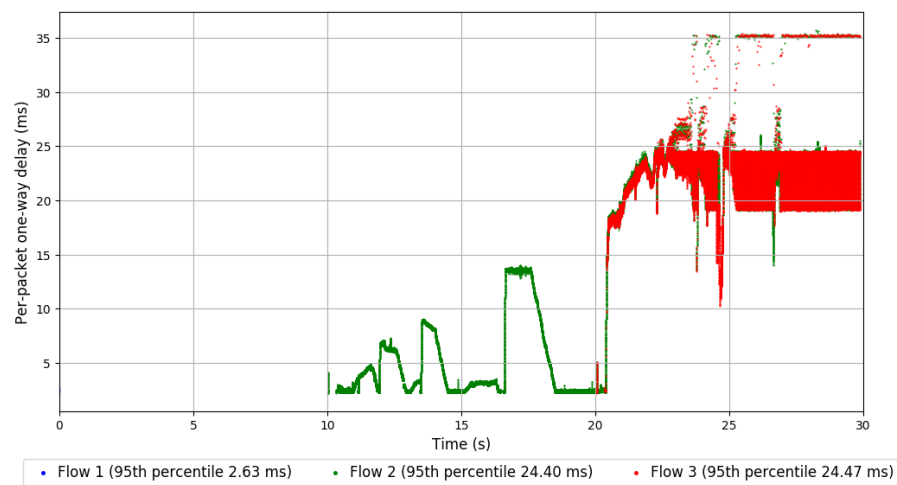
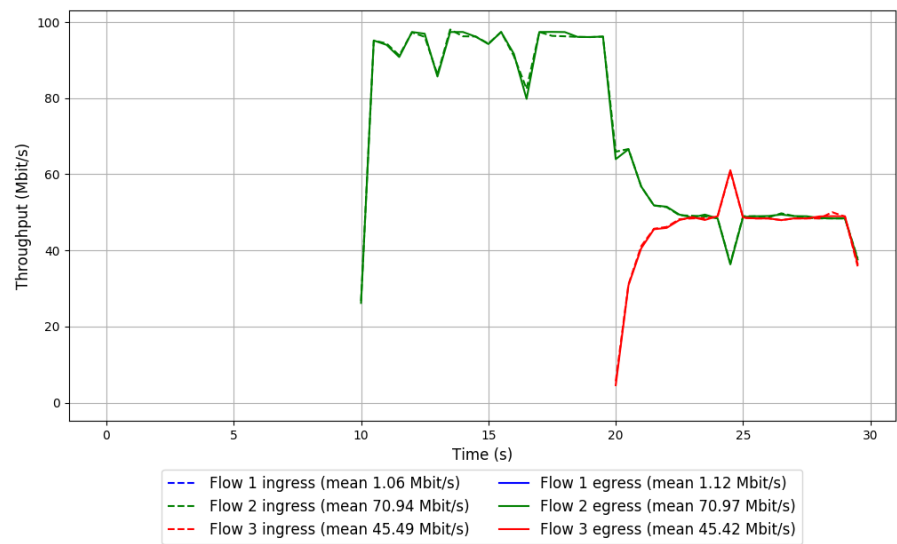


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-02 22:19:07
End at: 2018-02-02 22:19:37
Local clock offset: 0.225 ms
Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-02-03 05:02:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.18 Mbit/s
95th percentile per-packet one-way delay: 24.429 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 2.635 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.97 Mbit/s
95th percentile per-packet one-way delay: 24.400 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 45.42 Mbit/s
95th percentile per-packet one-way delay: 24.469 ms
Loss rate: 0.22%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-02 22:39:25

End at: 2018-02-02 22:39:55

Local clock offset: 0.251 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-02-03 05:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 24.423 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 1.10 Mbit/s

95th percentile per-packet one-way delay: 2.437 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 70.90 Mbit/s

95th percentile per-packet one-way delay: 24.388 ms

Loss rate: 0.11%

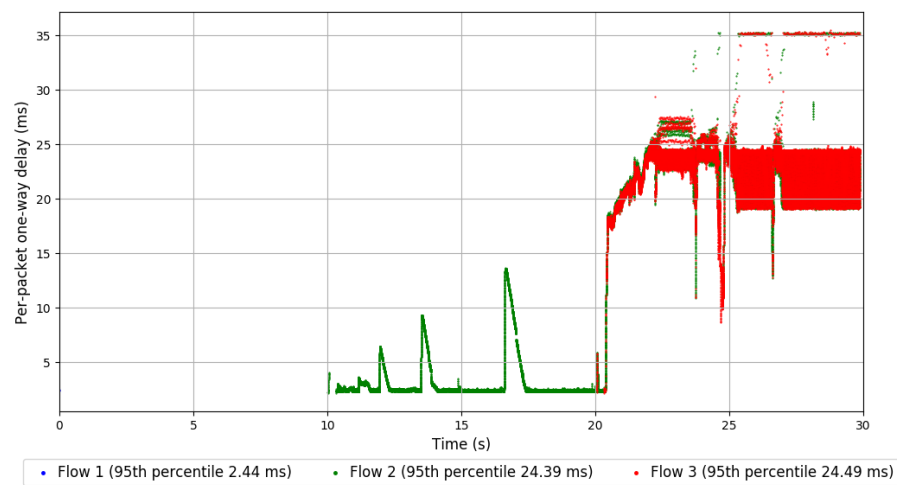
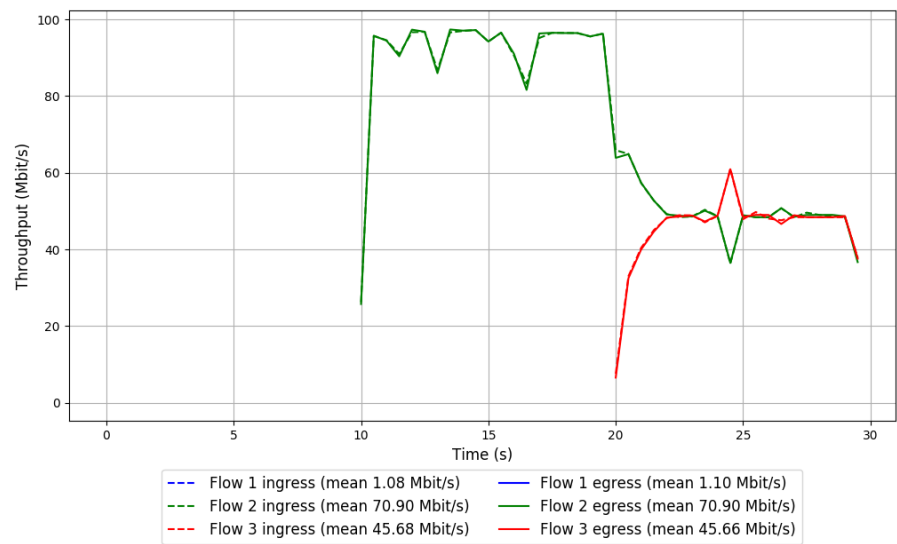
-- Flow 3:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 24.489 ms

Loss rate: 0.24%

Run 2: Report of QUIC Cubic — Data Link

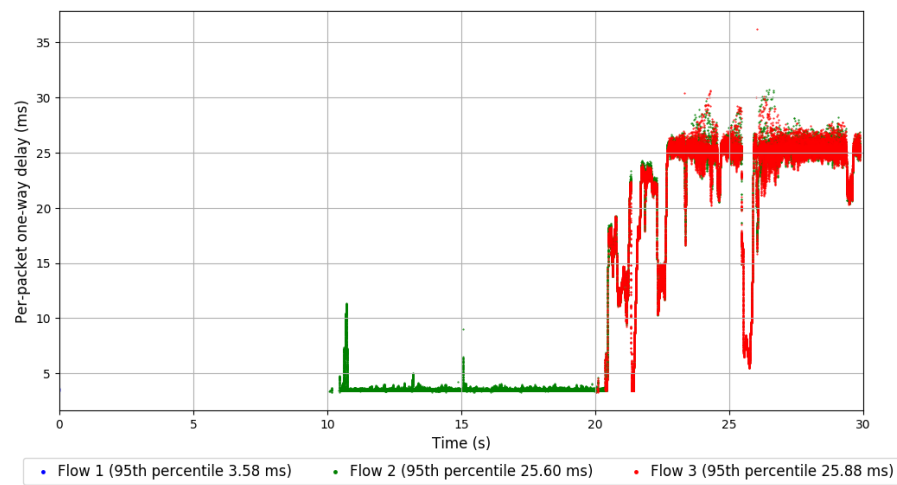
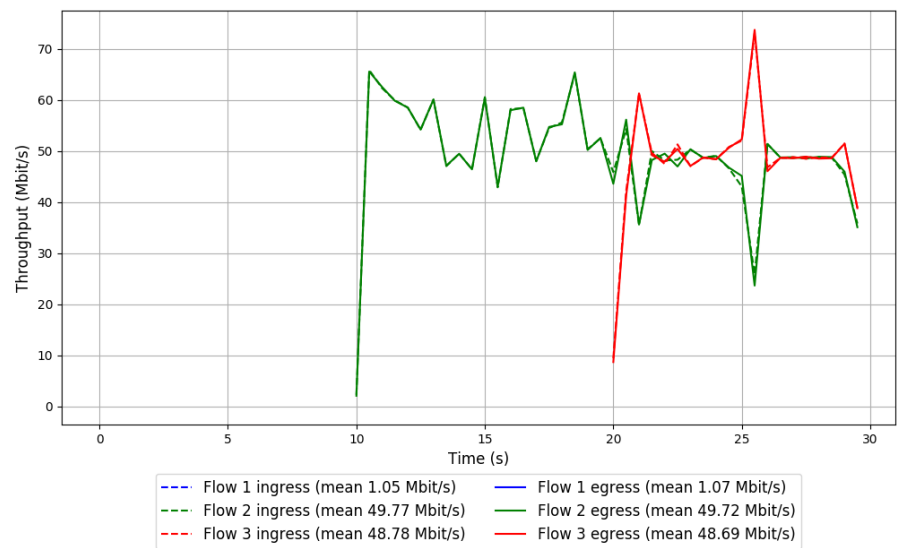


Run 3: Statistics of QUIC Cubic

Start at: 2018-02-02 22:59:40
End at: 2018-02-02 23:00:10
Local clock offset: 0.22 ms
Remote clock offset: -0.973 ms

Below is generated by plot.py at 2018-02-03 05:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.04 Mbit/s
95th percentile per-packet one-way delay: 25.695 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 3.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.72 Mbit/s
95th percentile per-packet one-way delay: 25.601 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 25.879 ms
Loss rate: 0.27%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

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

End at: 2018-02-02 23:20:34

Local clock offset: 0.287 ms

Remote clock offset: 0.628 ms

Below is generated by plot.py at 2018-02-03 05:02:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.30 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 1.11 Mbit/s

95th percentile per-packet one-way delay: 2.562 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.92 Mbit/s

95th percentile per-packet one-way delay: 24.425 ms

Loss rate: 0.08%

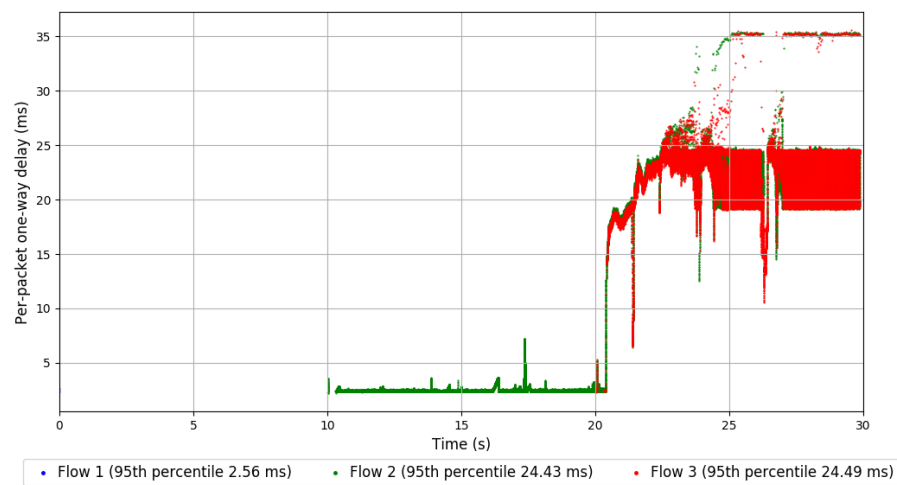
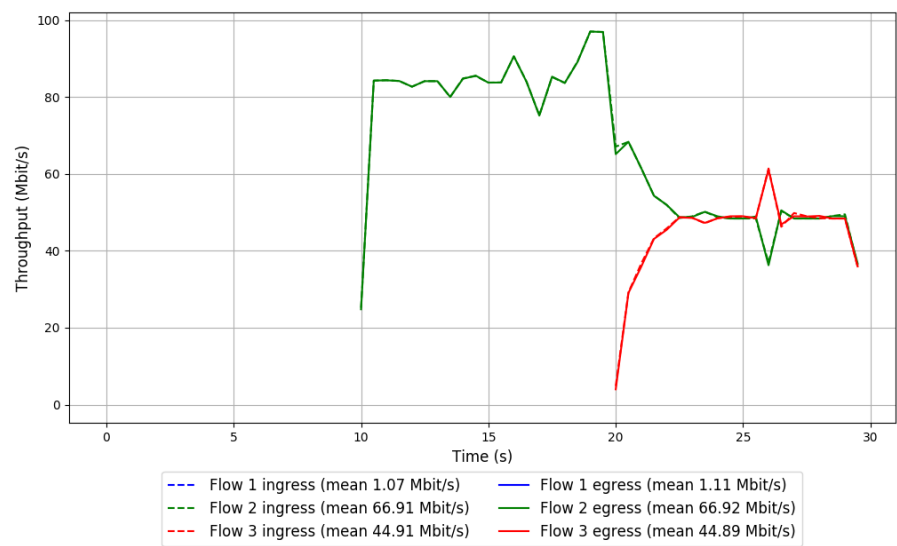
-- Flow 3:

Average throughput: 44.89 Mbit/s

95th percentile per-packet one-way delay: 24.488 ms

Loss rate: 0.22%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-02 23:40:31

End at: 2018-02-02 23:41:01

Local clock offset: 0.214 ms

Remote clock offset: 0.908 ms

Below is generated by plot.py at 2018-02-03 05:03:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 24.384 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 2.505 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 63.50 Mbit/s

95th percentile per-packet one-way delay: 24.352 ms

Loss rate: 0.09%

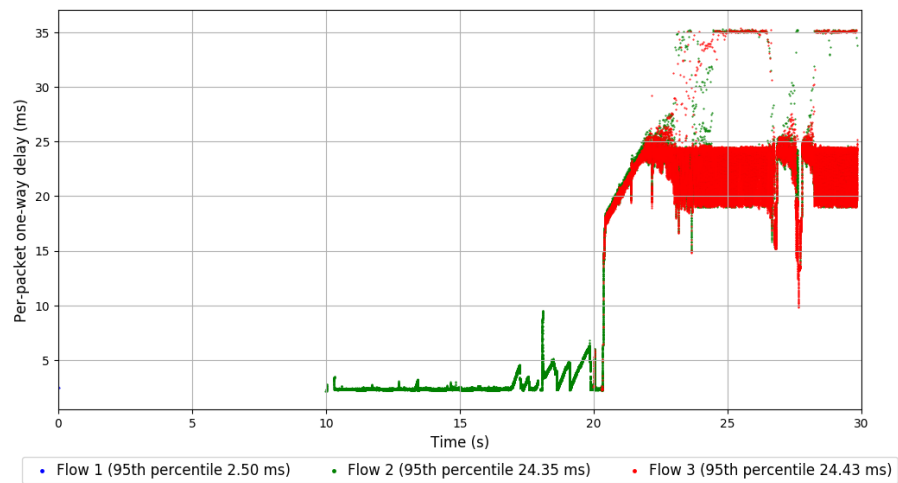
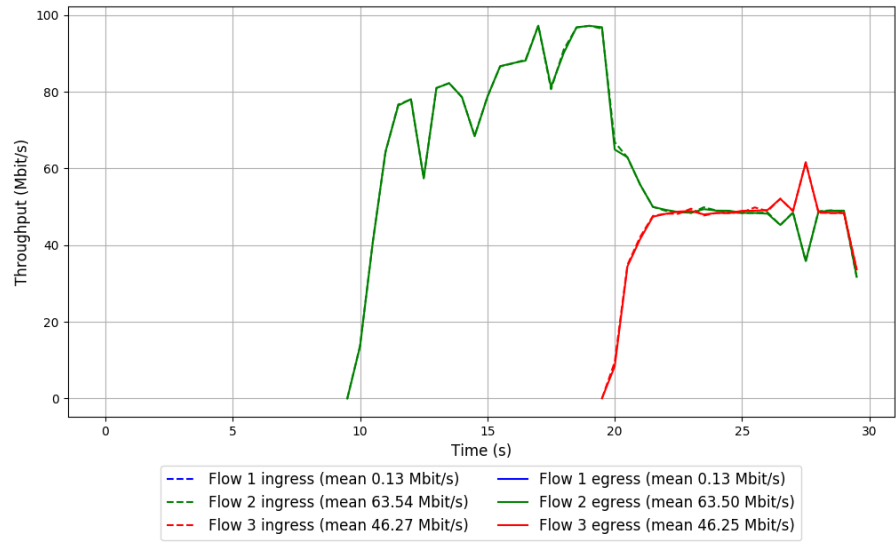
-- Flow 3:

Average throughput: 46.25 Mbit/s

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

Loss rate: 0.24%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-03 00:00:51

End at: 2018-02-03 00:01:21

Local clock offset: 0.244 ms

Remote clock offset: 1.101 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.87 Mbit/s

95th percentile per-packet one-way delay: 35.180 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 56.48 Mbit/s

95th percentile per-packet one-way delay: 35.065 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.00 Mbit/s

95th percentile per-packet one-way delay: 35.230 ms

Loss rate: 0.14%

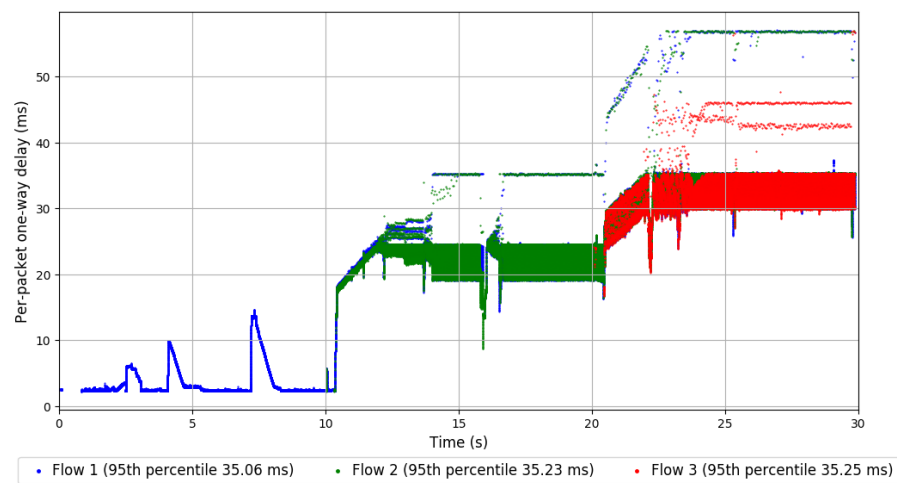
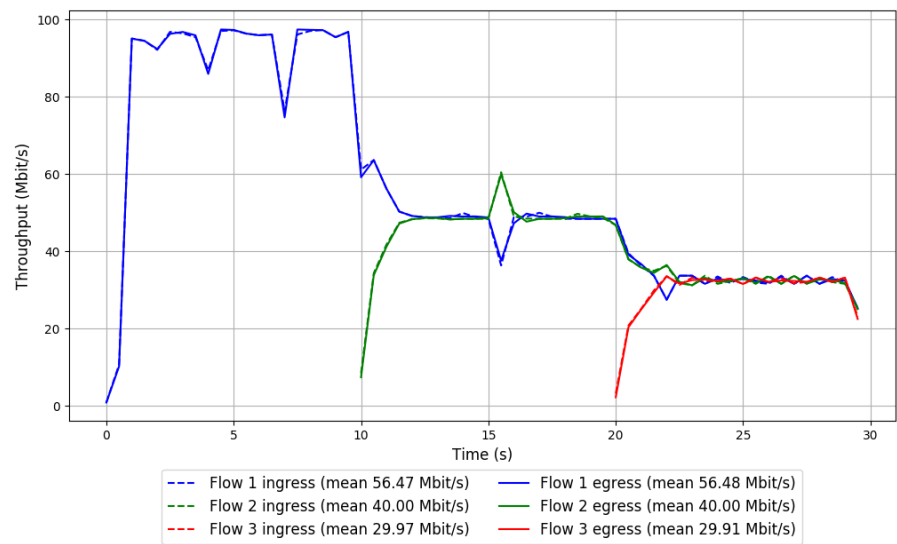
-- Flow 3:

Average throughput: 29.91 Mbit/s

95th percentile per-packet one-way delay: 35.246 ms

Loss rate: 0.46%

Run 6: Report of QUIC Cubic — Data Link

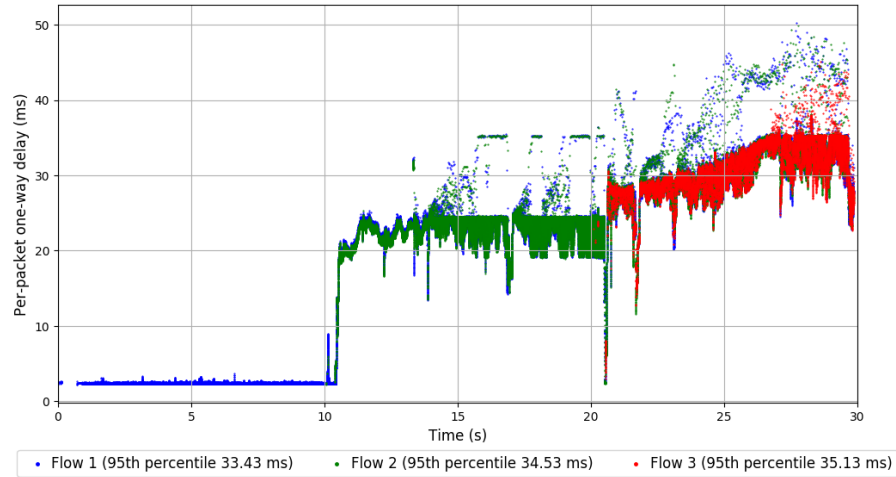
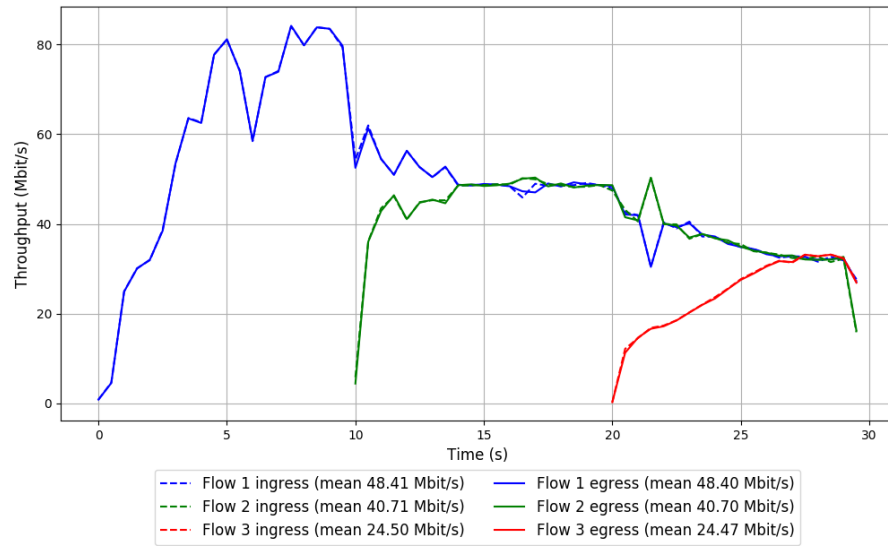


Run 7: Statistics of QUIC Cubic

Start at: 2018-02-03 00:21:10
End at: 2018-02-03 00:21:40
Local clock offset: 0.179 ms
Remote clock offset: 1.444 ms

Below is generated by plot.py at 2018-02-03 05:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.44 Mbit/s
95th percentile per-packet one-way delay: 34.417 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 33.431 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 40.70 Mbit/s
95th percentile per-packet one-way delay: 34.530 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 35.126 ms
Loss rate: 0.52%

Run 7: Report of QUIC Cubic — Data Link

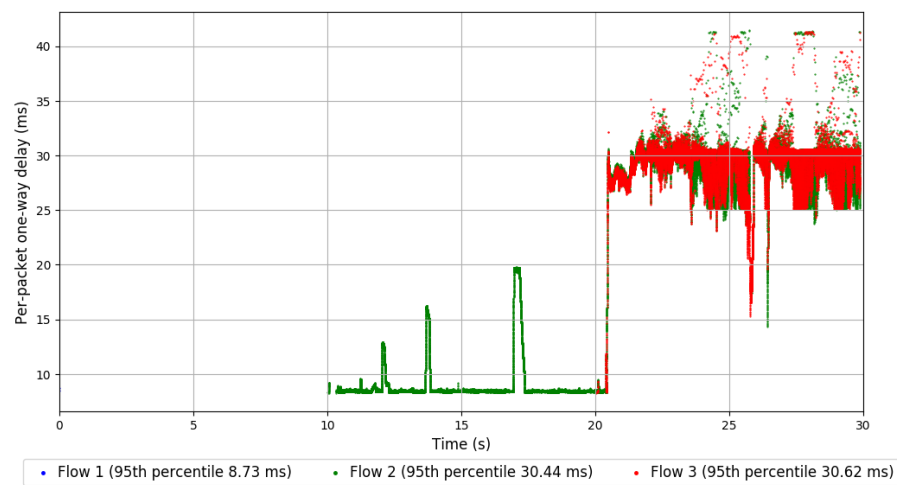
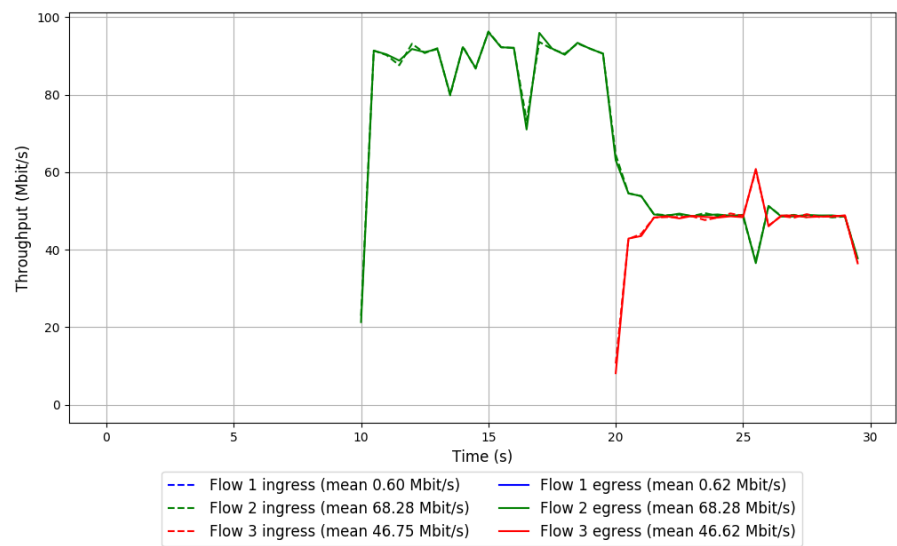


Run 8: Statistics of QUIC Cubic

Start at: 2018-02-03 00:41:30
End at: 2018-02-03 00:42:00
Local clock offset: 0.22 ms
Remote clock offset: -4.355 ms

Below is generated by plot.py at 2018-02-03 05:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.75 Mbit/s
95th percentile per-packet one-way delay: 30.491 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 8.727 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.28 Mbit/s
95th percentile per-packet one-way delay: 30.442 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 46.62 Mbit/s
95th percentile per-packet one-way delay: 30.617 ms
Loss rate: 0.34%

Run 8: Report of QUIC Cubic — Data Link

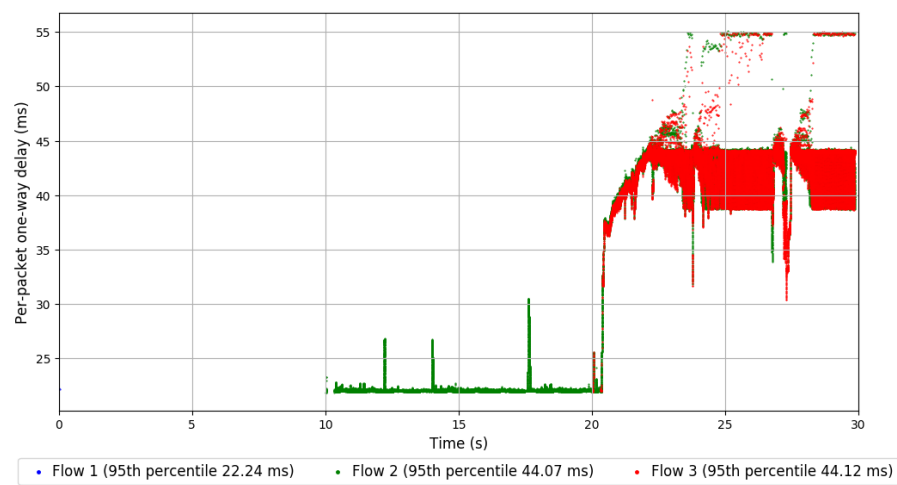
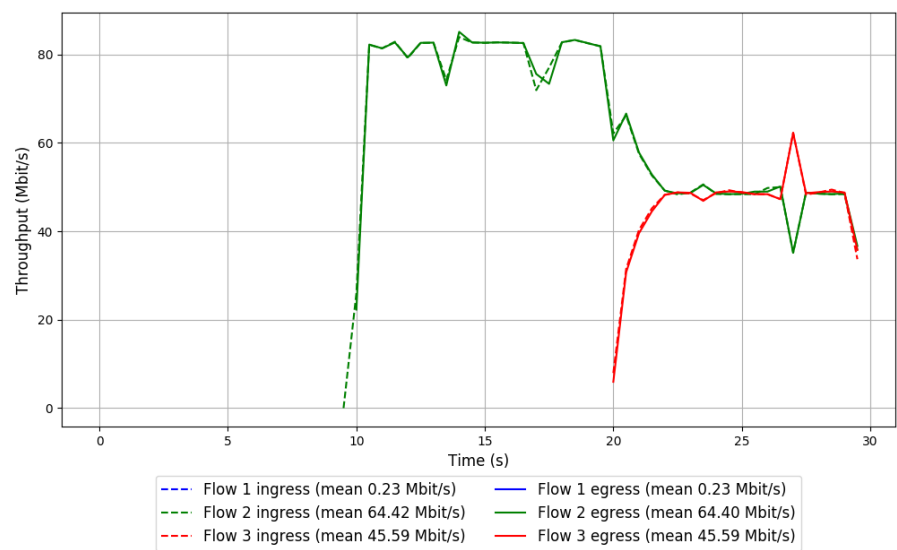


Run 9: Statistics of QUIC Cubic

Start at: 2018-02-03 01:02:01
End at: 2018-02-03 01:02:31
Local clock offset: 0.202 ms
Remote clock offset: -18.424 ms

Below is generated by plot.py at 2018-02-03 05:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 44.089 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 22.241 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.40 Mbit/s
95th percentile per-packet one-way delay: 44.069 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 45.59 Mbit/s
95th percentile per-packet one-way delay: 44.122 ms
Loss rate: 0.24%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-03 01:22:27

End at: 2018-02-03 01:22:57

Local clock offset: 0.145 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.36 Mbit/s

95th percentile per-packet one-way delay: 24.464 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 2.634 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.94 Mbit/s

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

Loss rate: 0.11%

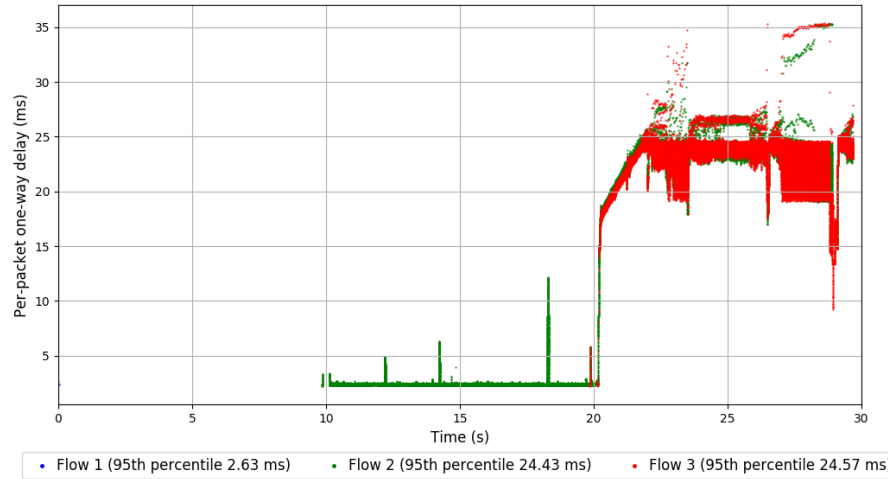
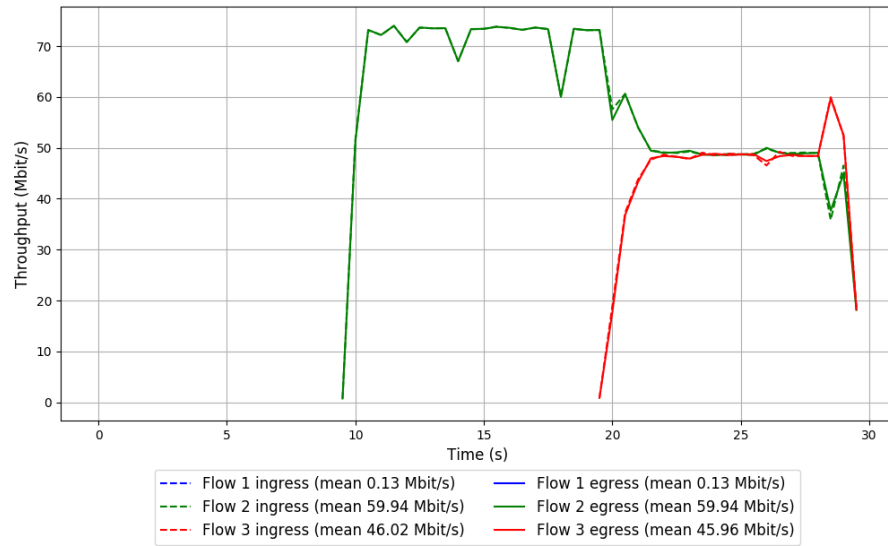
-- Flow 3:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 24.565 ms

Loss rate: 0.29%

Run 10: Report of QUIC Cubic — Data Link

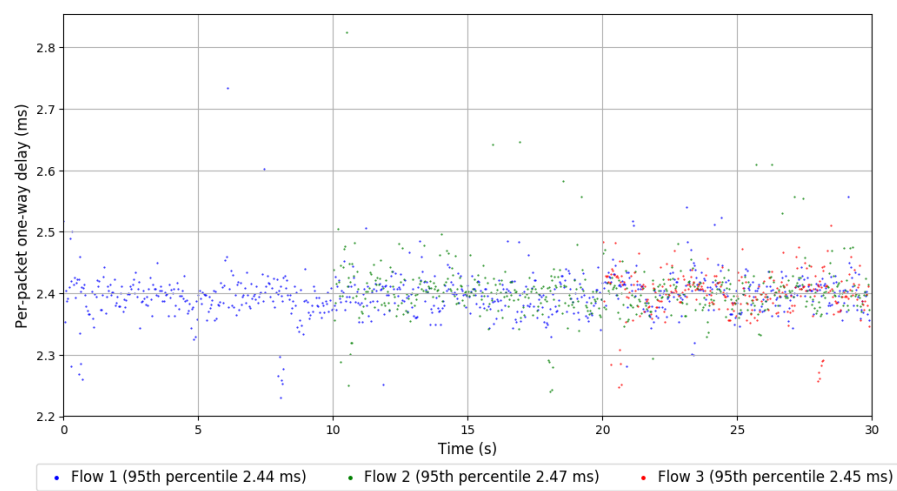
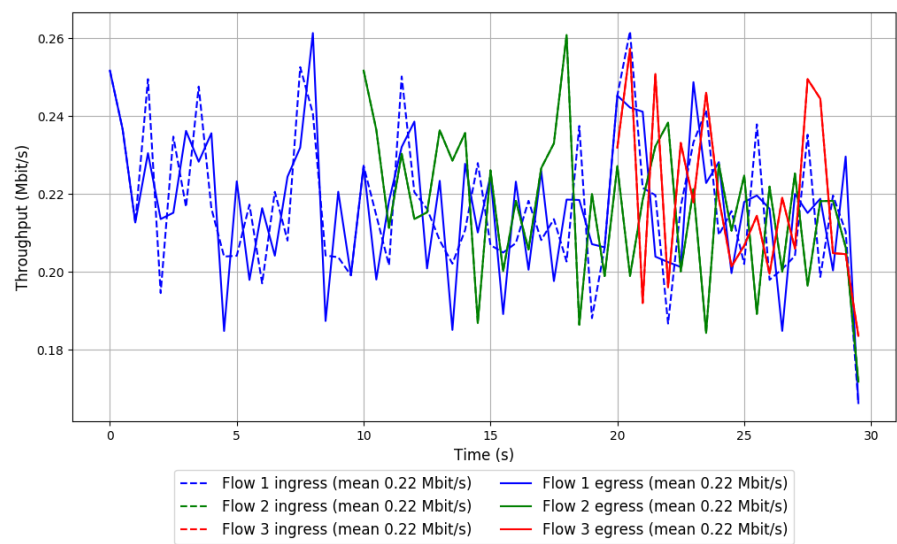


```
Run 1: Statistics of SReAM

Start at: 2018-02-02 22:18:03
End at: 2018-02-02 22:18:33
Local clock offset: 0.205 ms
Remote clock offset: 0.228 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.442 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

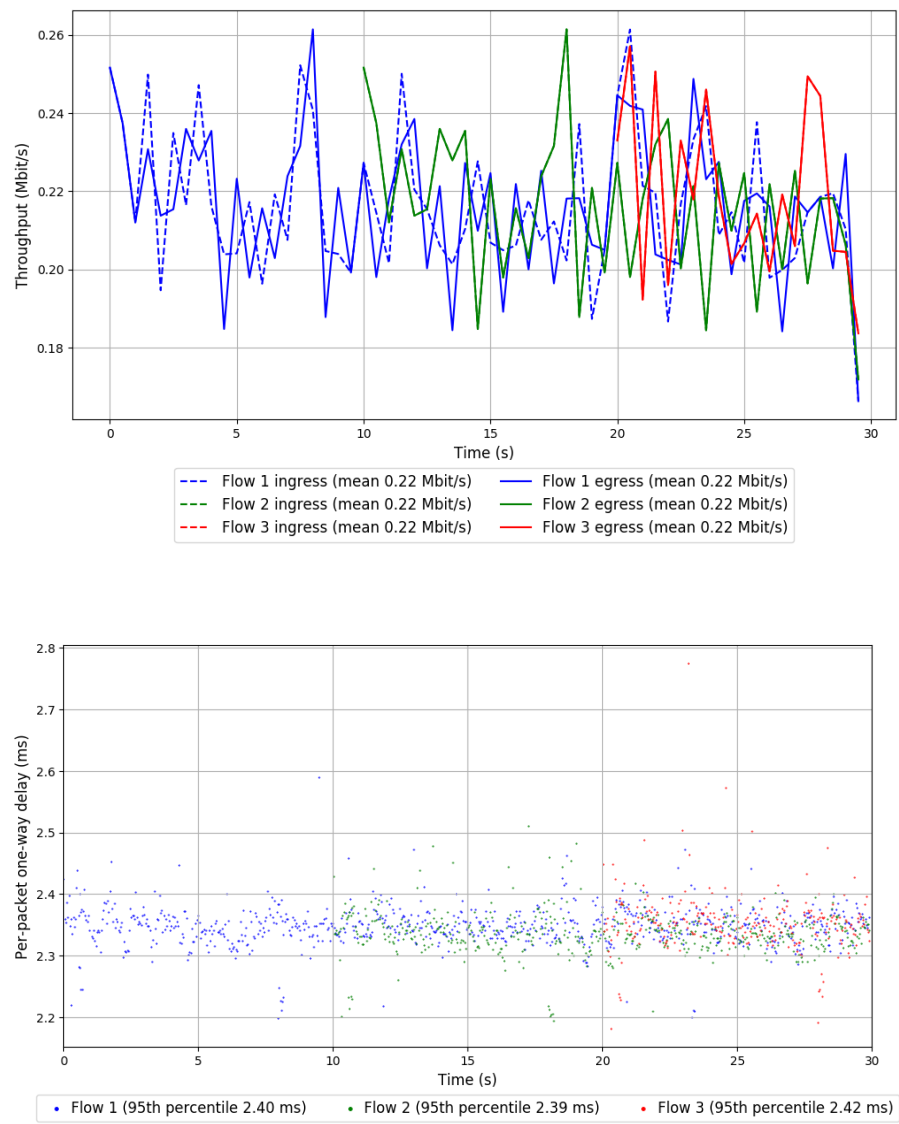


```
Run 2: Statistics of SReAM

Start at: 2018-02-02 22:38:21
End at: 2018-02-02 22:38:51
Local clock offset: 0.264 ms
Remote clock offset: 0.278 ms

# Below is generated by plot.py at 2018-02-03 05:04:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.396 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.387 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.415 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2018-02-02 22:58:36

End at: 2018-02-02 22:59:06

Local clock offset: 0.257 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.417 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.431 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.414 ms

Loss rate: 0.00%

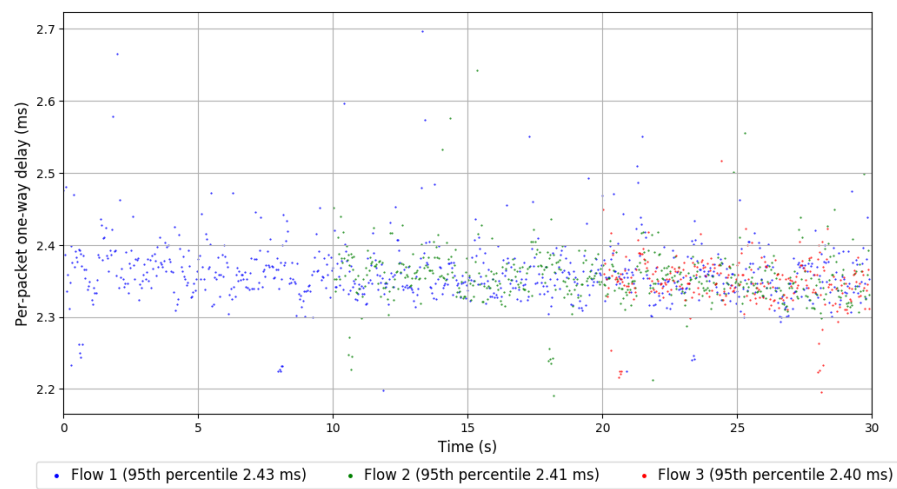
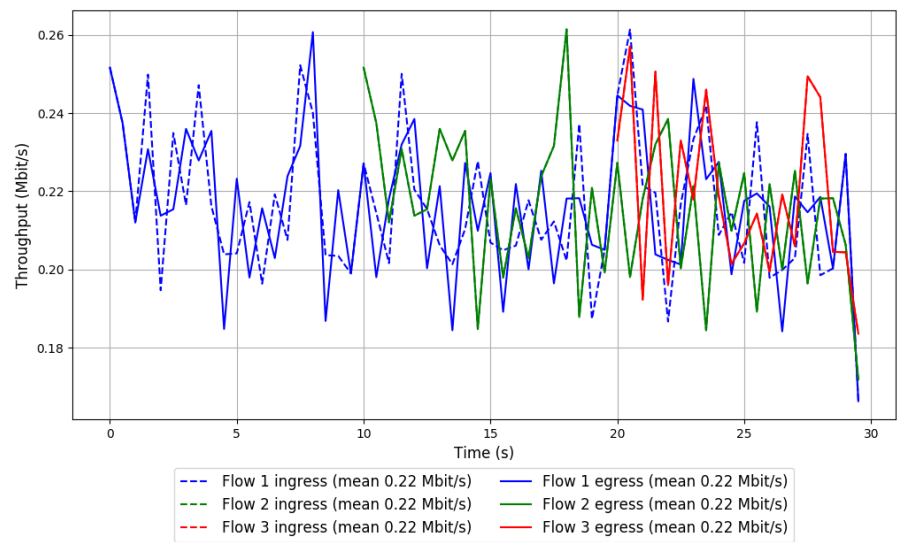
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.395 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2018-02-02 23:19:00

End at: 2018-02-02 23:19:30

Local clock offset: 0.236 ms

Remote clock offset: 0.617 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.365 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.353 ms

Loss rate: 0.00%

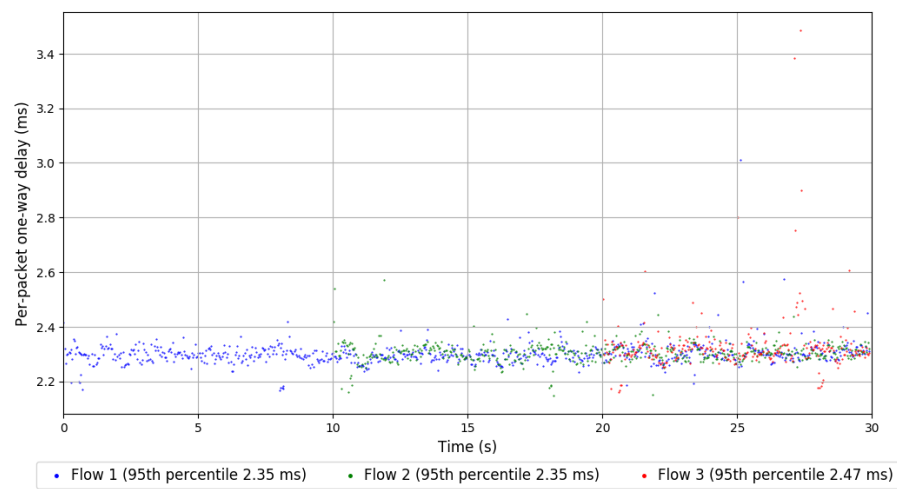
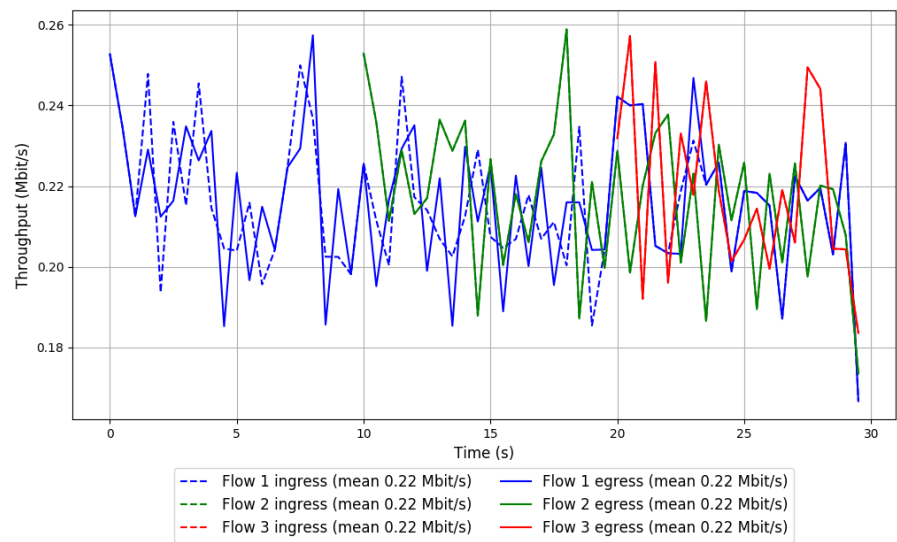
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.467 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-02-02 23:39:27

End at: 2018-02-02 23:39:57

Local clock offset: 0.21 ms

Remote clock offset: 0.837 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.425 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.429 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.394 ms

Loss rate: 0.00%

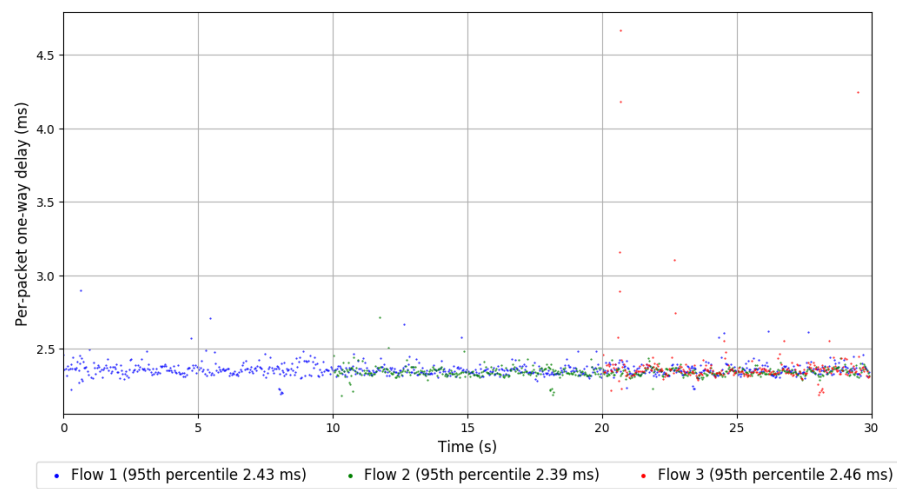
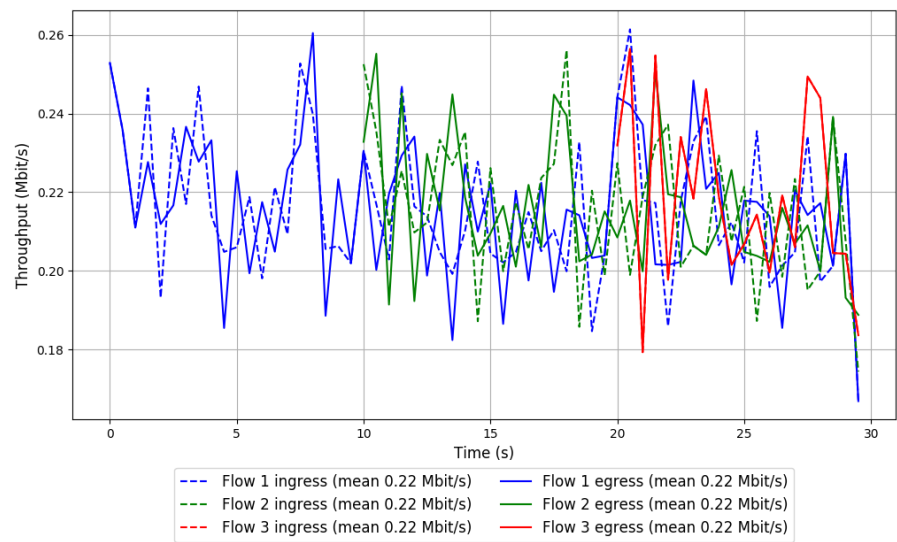
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.460 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-02-02 23:59:47

End at: 2018-02-03 00:00:17

Local clock offset: 0.173 ms

Remote clock offset: 1.108 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.354 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.00%

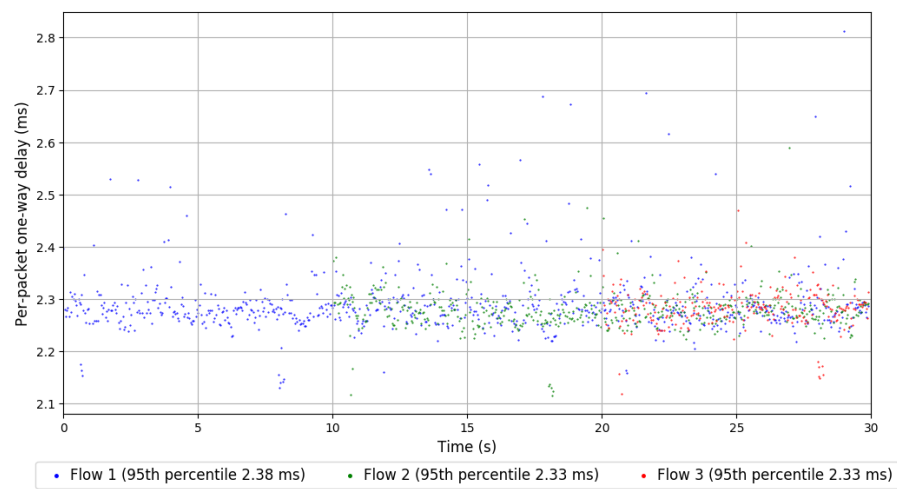
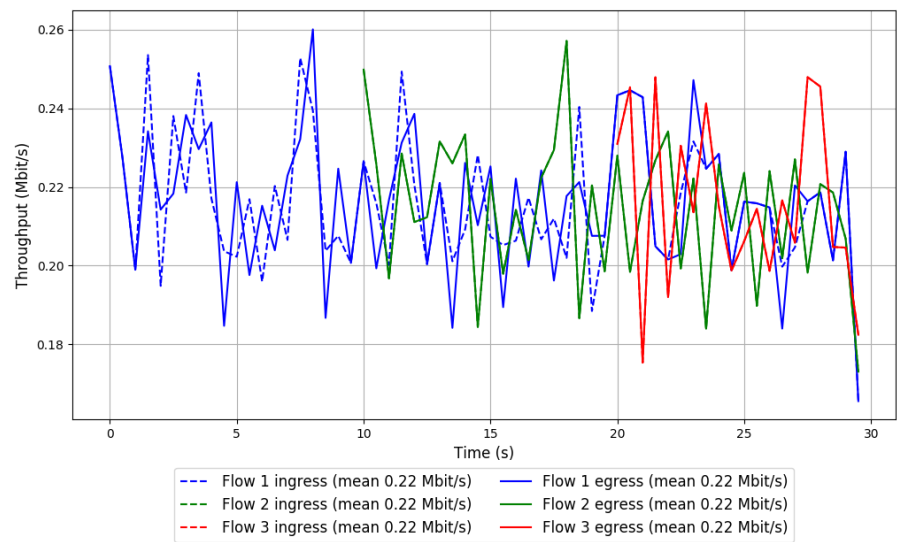
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

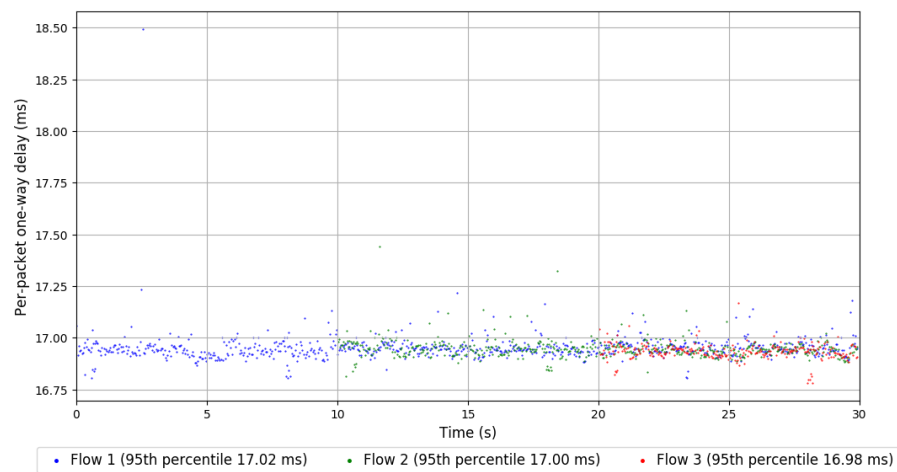
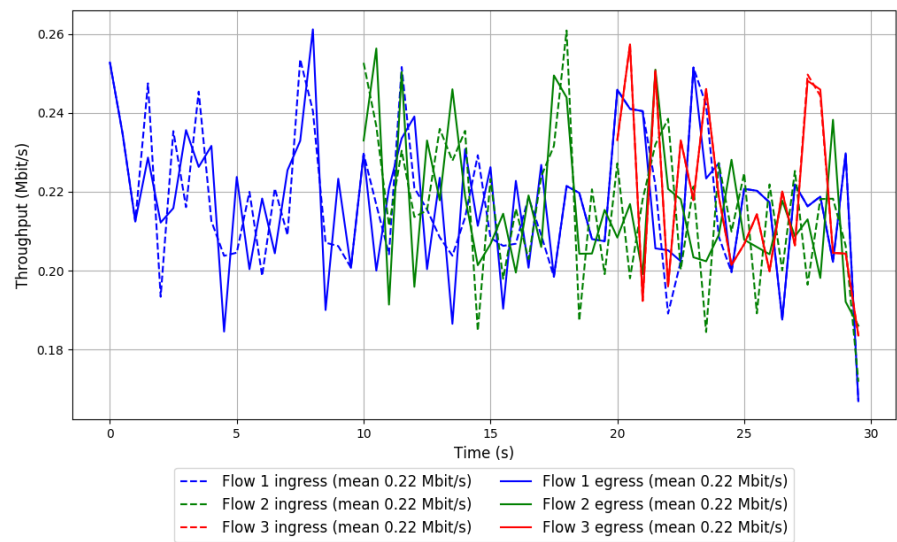


Run 7: Statistics of SReAM

Start at: 2018-02-03 00:20:06
End at: 2018-02-03 00:20:36
Local clock offset: 0.208 ms
Remote clock offset: -13.128 ms

Below is generated by plot.py at 2018-02-03 05:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 17.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.020 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.001 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 16.983 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-02-03 00:40:26

End at: 2018-02-03 00:40:56

Local clock offset: 0.145 ms

Remote clock offset: 1.715 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.344 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.332 ms

Loss rate: 0.00%

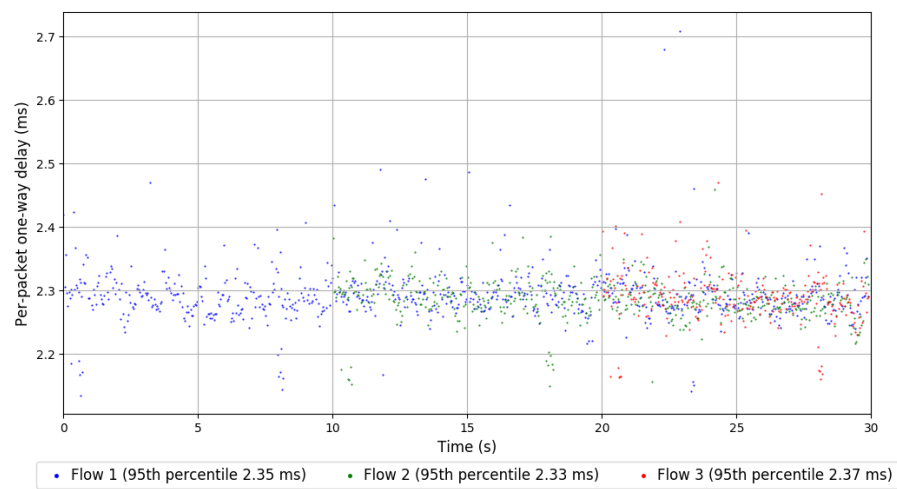
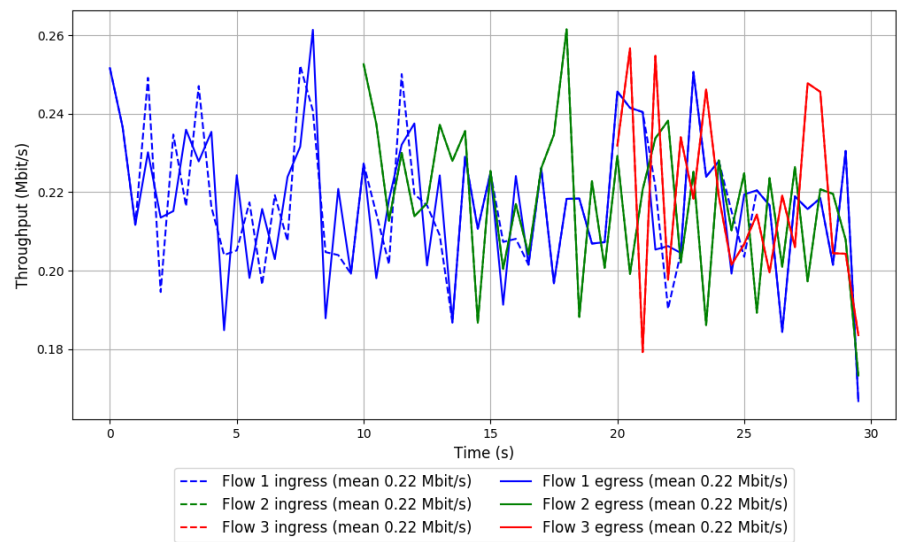
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.366 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-02-03 01:00:57

End at: 2018-02-03 01:01:27

Local clock offset: 0.193 ms

Remote clock offset: 1.262 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.378 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: 2.378 ms

Loss rate: 0.00%

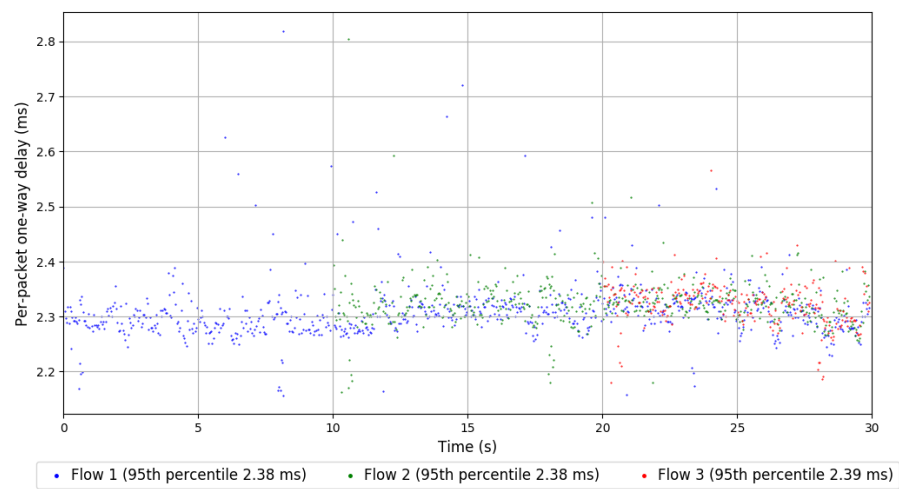
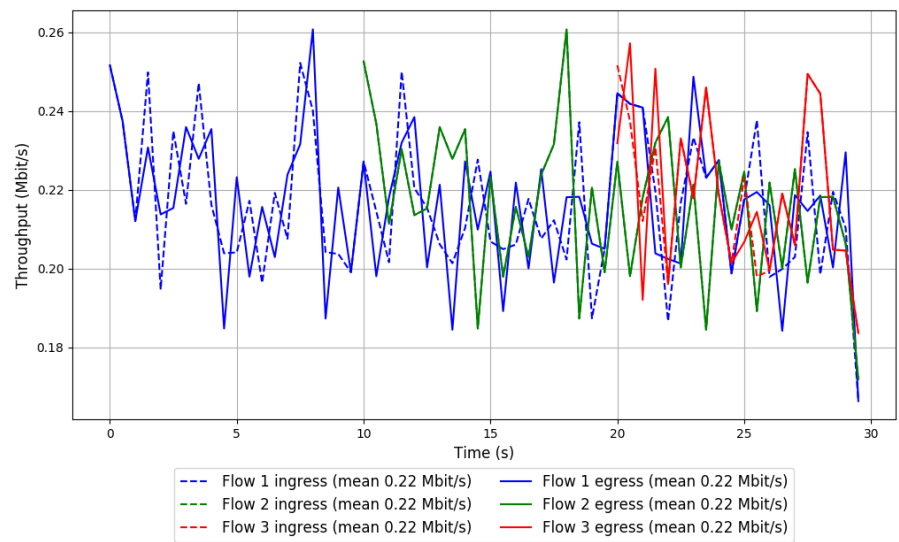
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.389 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-03 01:21:23

End at: 2018-02-03 01:21:53

Local clock offset: 0.096 ms

Remote clock offset: 1.008 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 2.345 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.347 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.344 ms

Loss rate: 0.00%

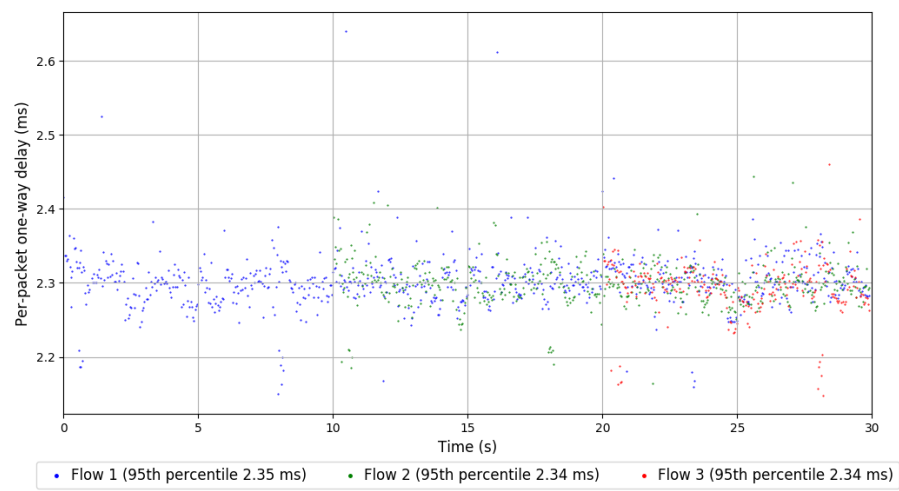
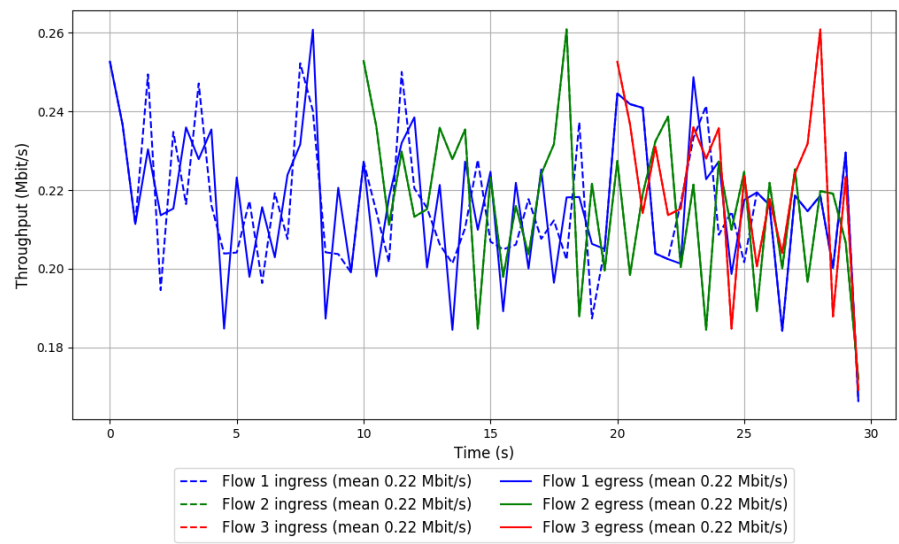
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-02-02 22:23:37

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

Local clock offset: 0.191 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 3.102 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 3.078 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 3.127 ms

Loss rate: 0.00%

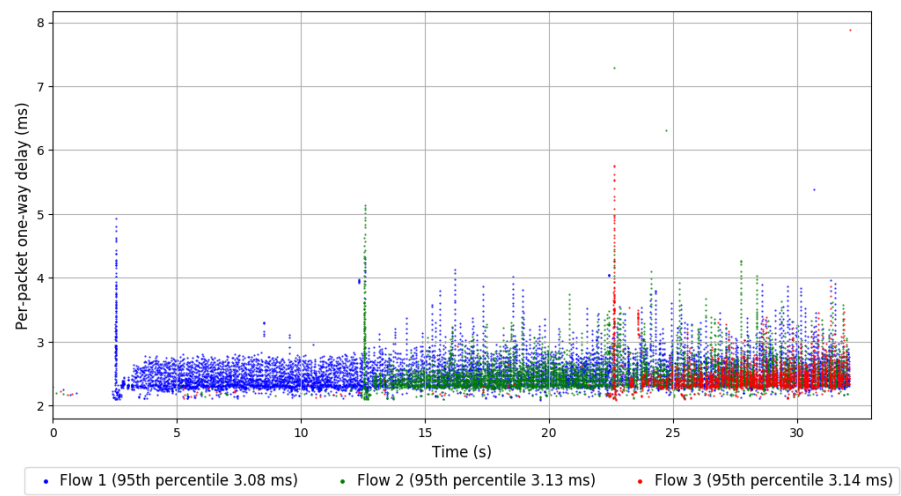
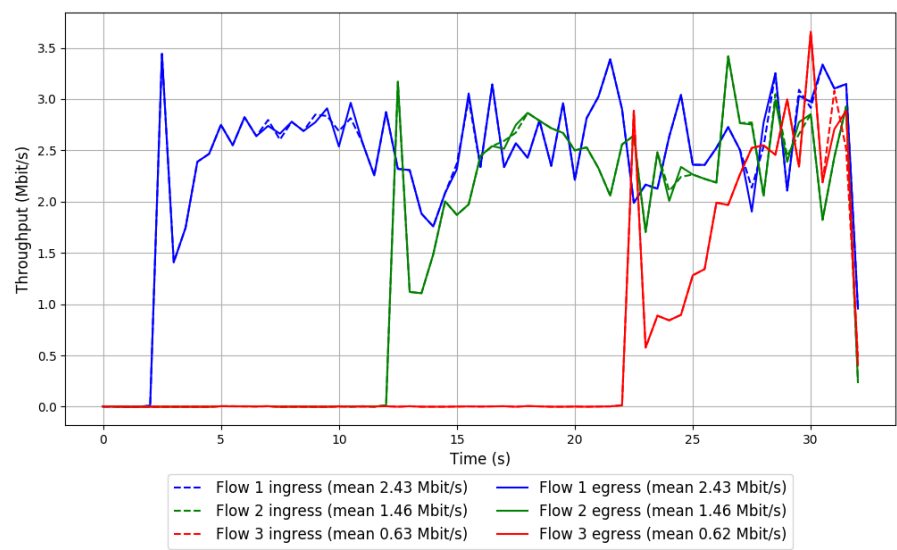
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 3.139 ms

Loss rate: 0.19%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-02 22:43:54

End at: 2018-02-02 22:44:24

Local clock offset: 0.194 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 3.203 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 2.27 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 3.260 ms

Loss rate: 0.32%

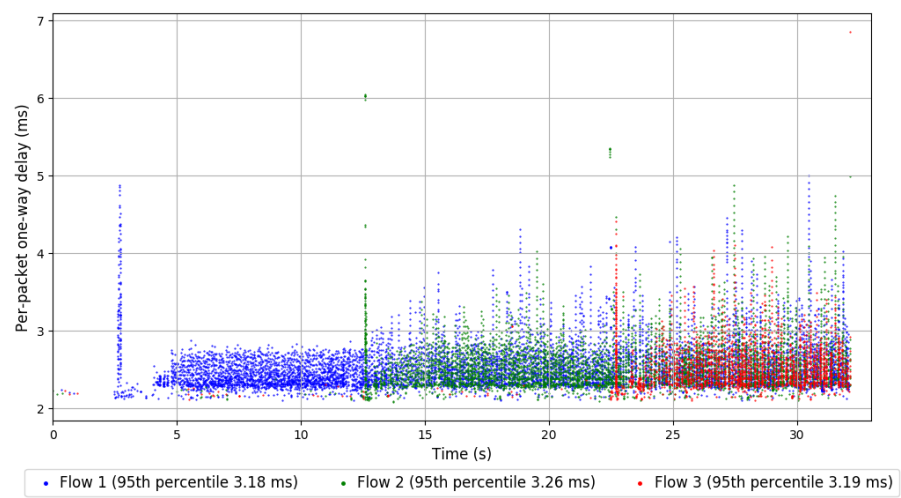
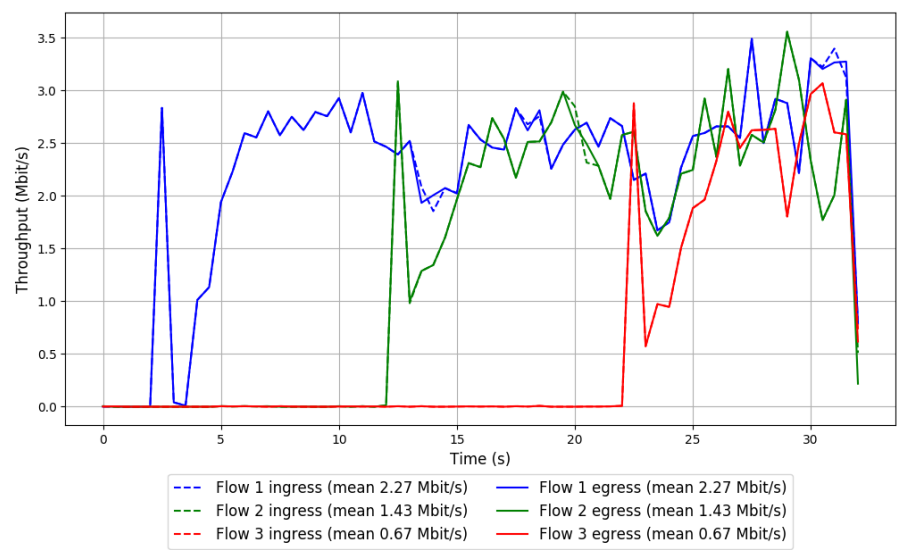
-- Flow 3:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 3.188 ms

Loss rate: 0.28%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-02 23:04:12

End at: 2018-02-02 23:04:42

Local clock offset: 0.276 ms

Remote clock offset: 0.293 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 3.243 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 3.135 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 3.444 ms

Loss rate: 0.00%

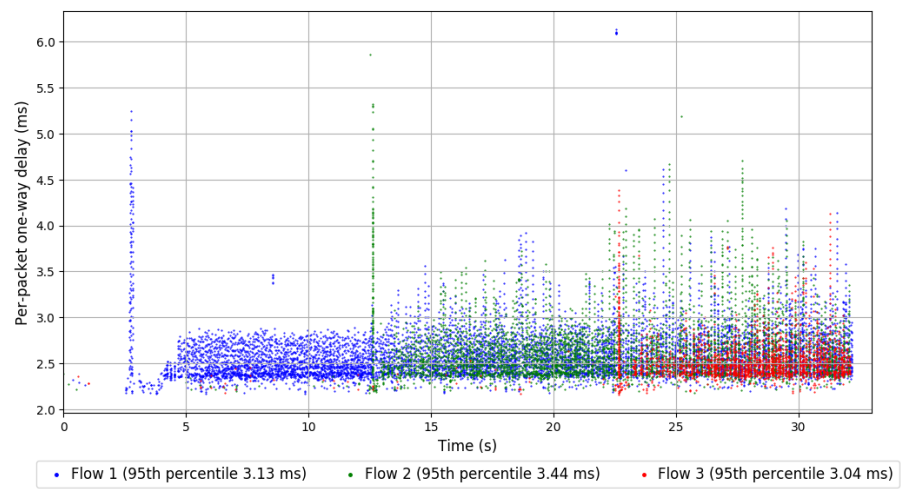
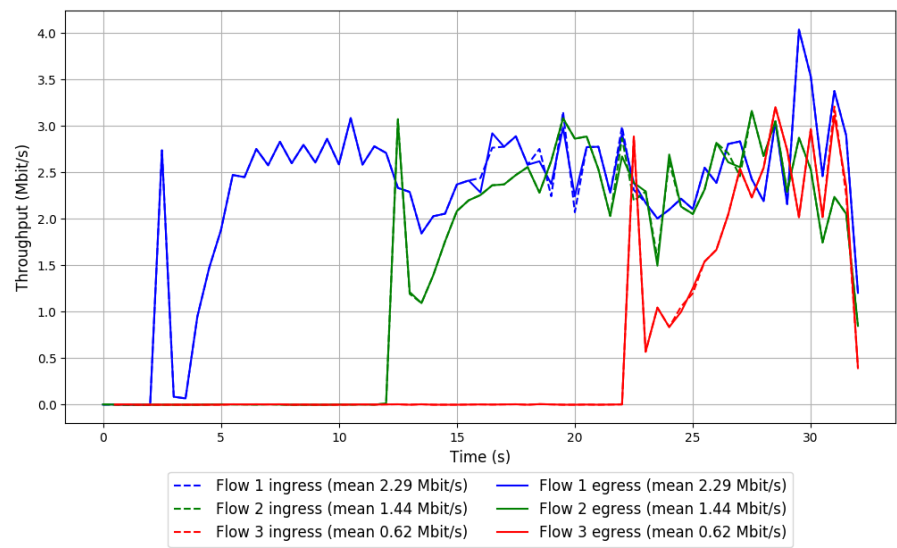
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 3.044 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-02 23:24:36

End at: 2018-02-02 23:25:06

Local clock offset: 0.284 ms

Remote clock offset: 0.655 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 3.349 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 3.327 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 3.302 ms

Loss rate: 0.00%

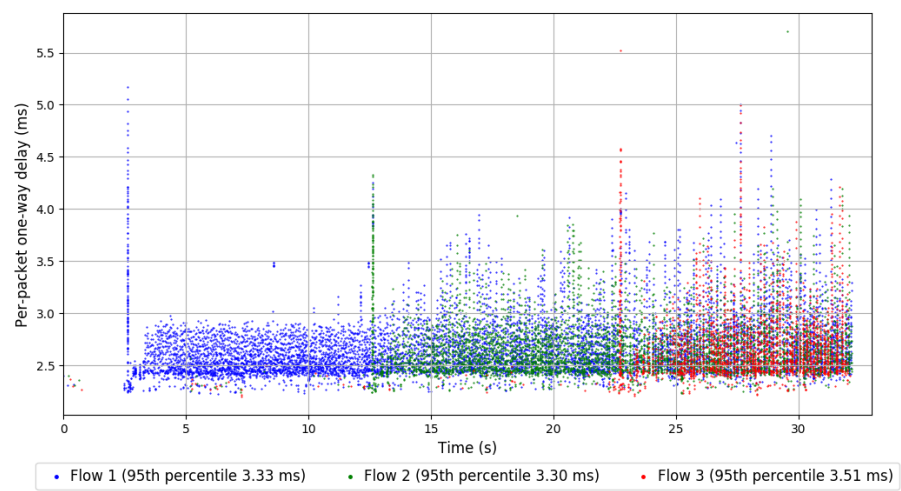
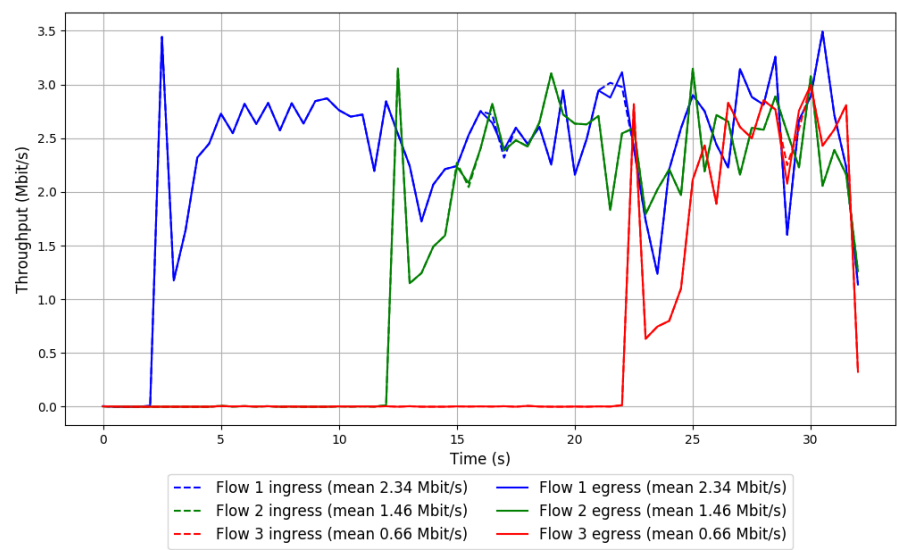
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 3.511 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

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

End at: 2018-02-02 23:45:32

Local clock offset: 0.262 ms

Remote clock offset: 0.976 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 3.317 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 3.356 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 3.284 ms

Loss rate: 0.00%

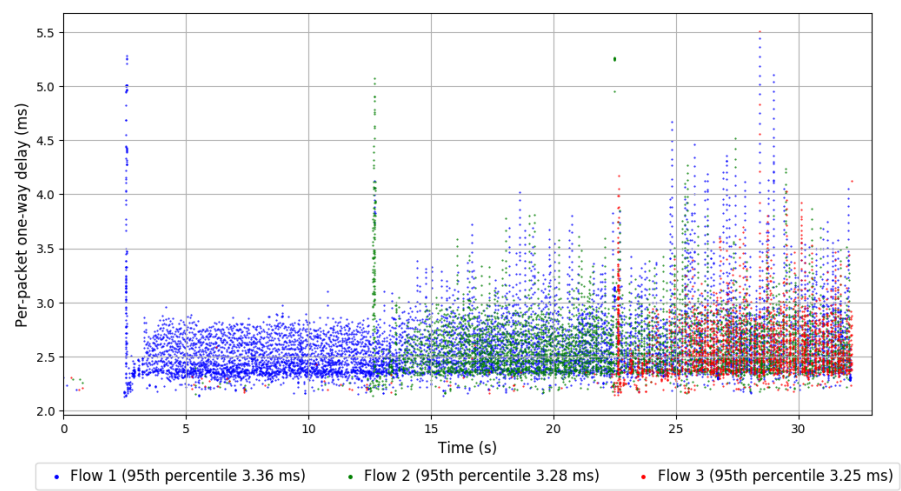
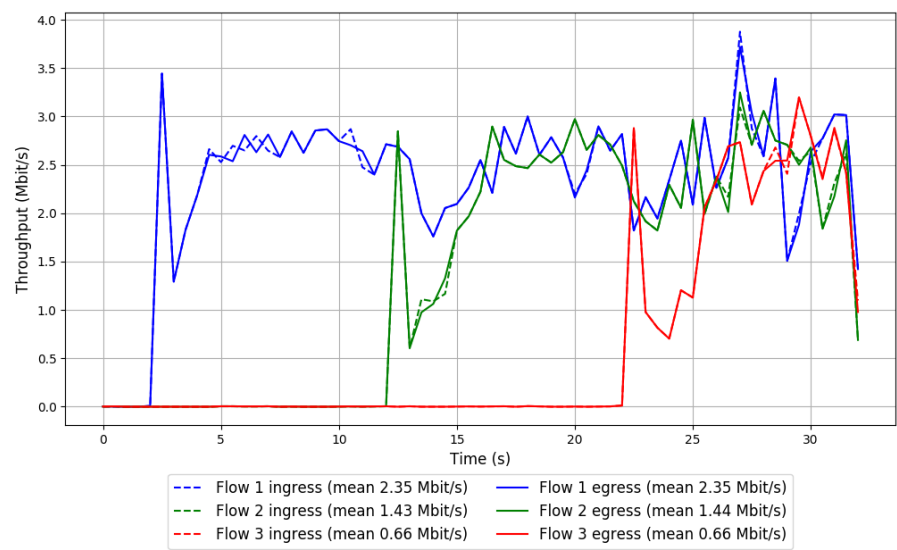
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 3.251 ms

Loss rate: 0.28%

Run 5: Report of WebRTC media — Data Link

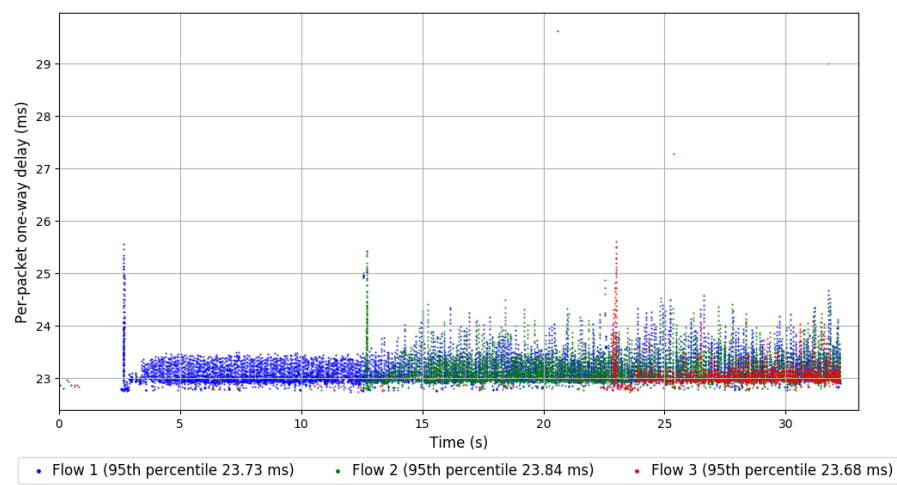
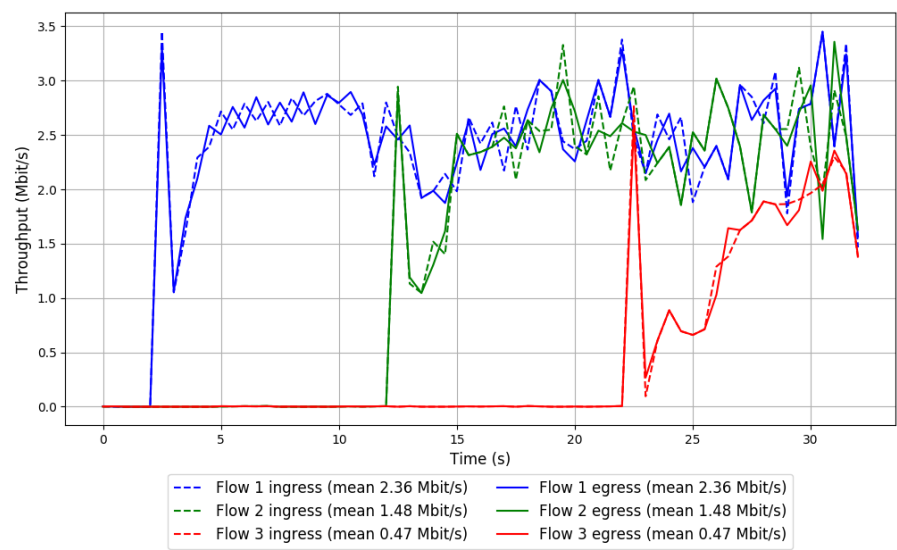


Run 6: Statistics of WebRTC media

Start at: 2018-02-03 00:05:22
End at: 2018-02-03 00:05:52
Local clock offset: 0.218 ms
Remote clock offset: -19.414 ms

Below is generated by plot.py at 2018-02-03 05:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 23.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 23.733 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 23.835 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 23.682 ms
Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-03 00:25:42

End at: 2018-02-03 00:26:12

Local clock offset: 0.181 ms

Remote clock offset: 1.47 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 3.395 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 3.406 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 3.320 ms

Loss rate: 0.00%

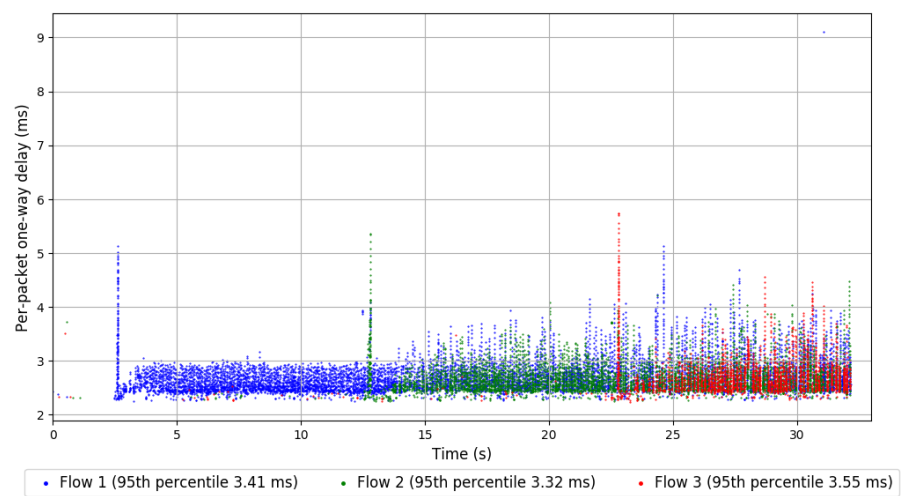
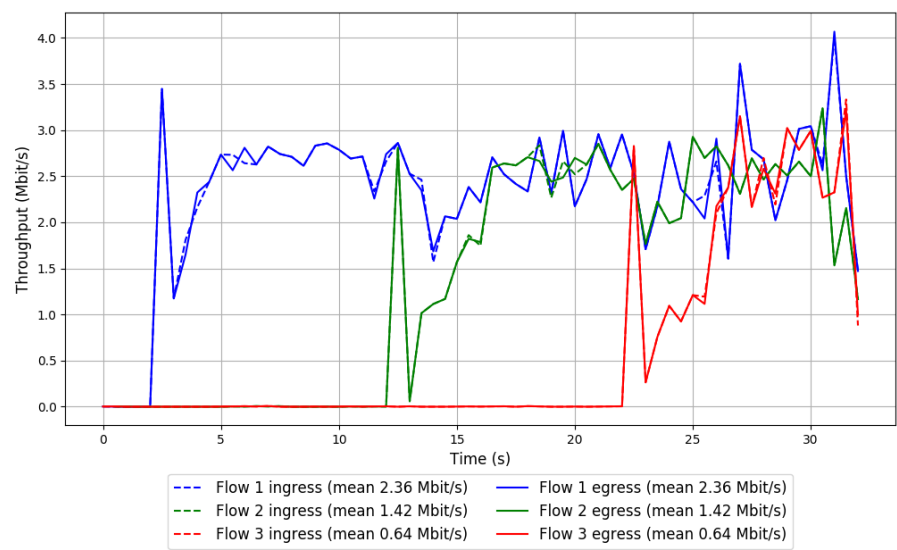
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 3.552 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

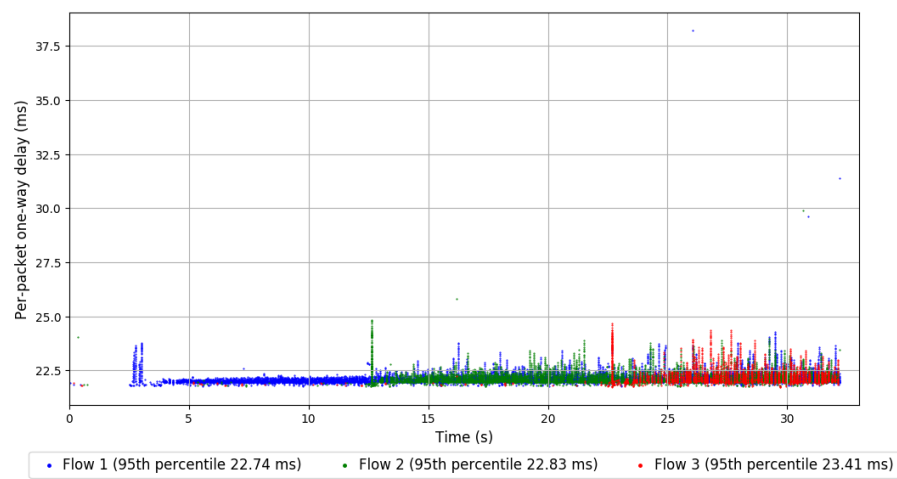
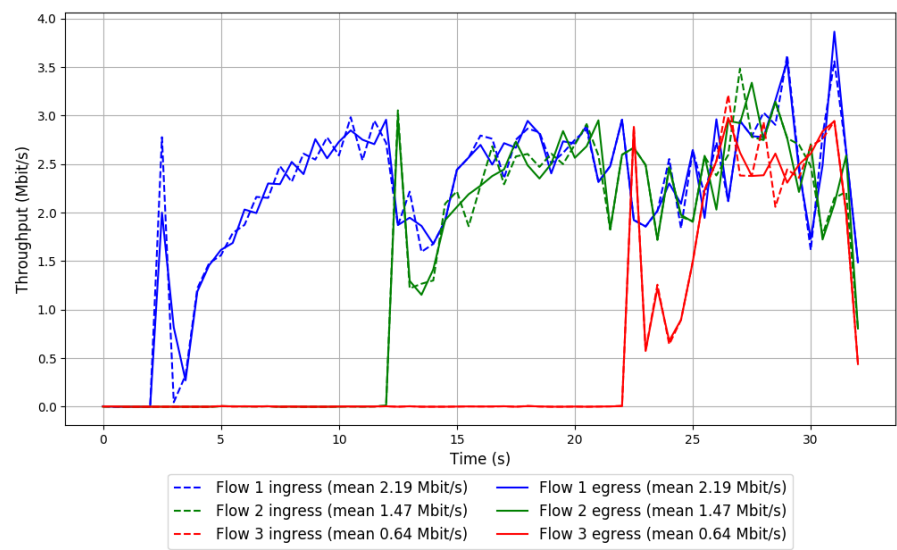


Run 8: Statistics of WebRTC media

Start at: 2018-02-03 00:46:09
End at: 2018-02-03 00:46:39
Local clock offset: 0.136 ms
Remote clock offset: -18.119 ms

Below is generated by plot.py at 2018-02-03 05:04:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 22.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 22.740 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 22.834 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 23.406 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-03 01:06:32

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

Local clock offset: 0.118 ms

Remote clock offset: 1.149 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 3.306 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 3.307 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 3.229 ms

Loss rate: 0.00%

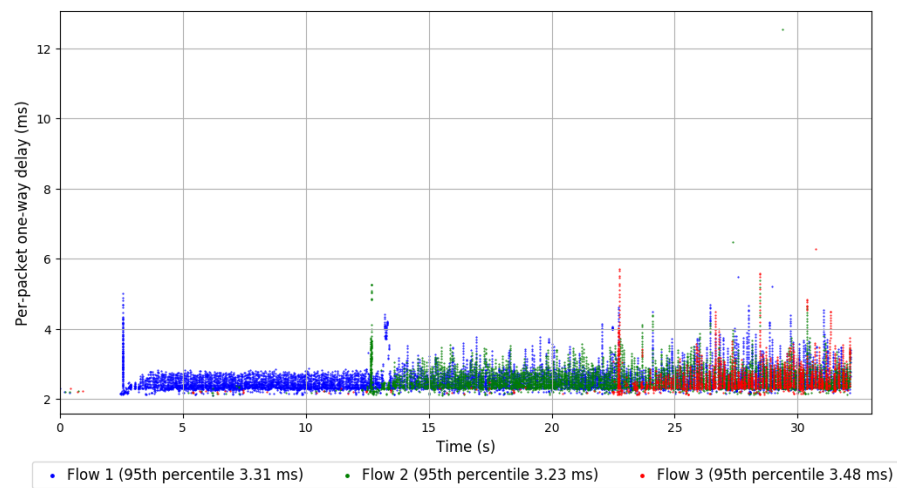
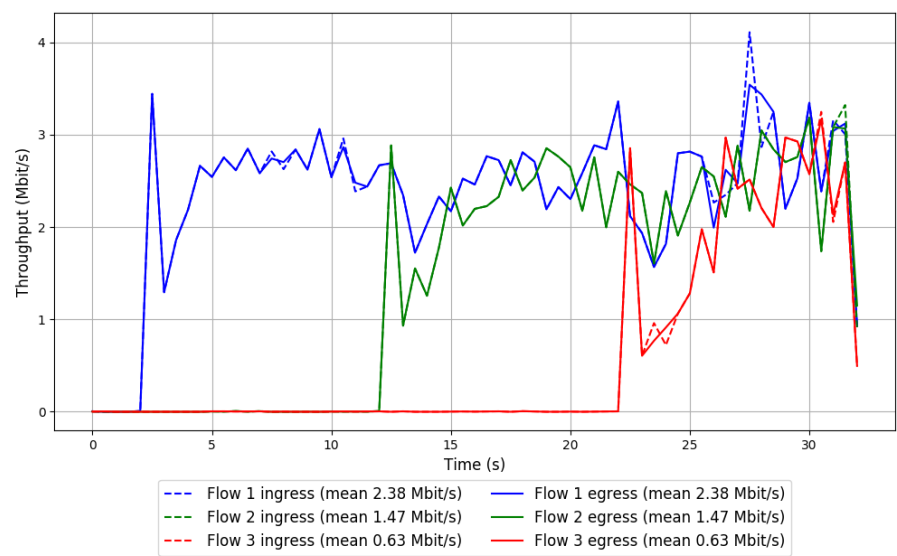
-- Flow 3:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 3.476 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-03 01:27:00

End at: 2018-02-03 01:27:30

Local clock offset: 0.092 ms

Remote clock offset: 0.423 ms

Below is generated by plot.py at 2018-02-03 05:04:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 3.770 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 3.844 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.51 Mbit/s

95th percentile per-packet one-way delay: 3.704 ms

Loss rate: 0.00%

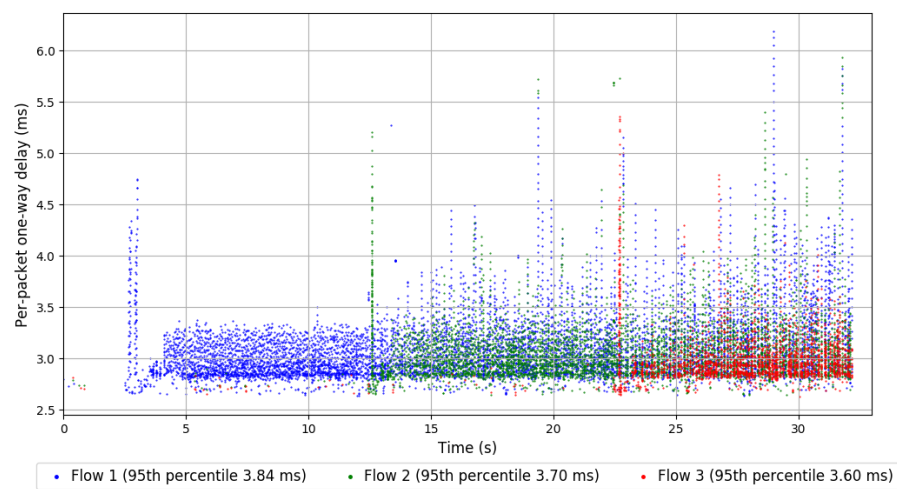
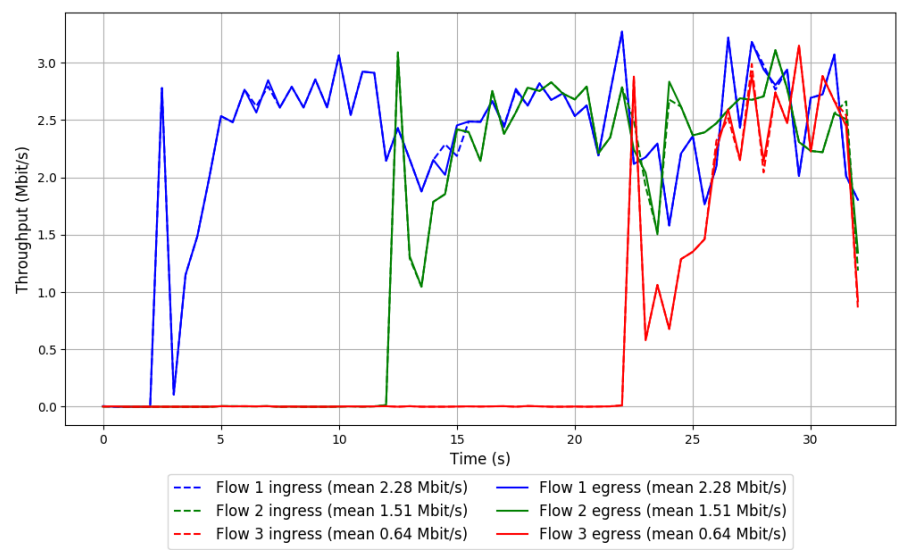
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 3.604 ms

Loss rate: 0.05%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-02 22:20:14

End at: 2018-02-02 22:20:44

Local clock offset: 0.215 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-02-03 05:04:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.43 Mbit/s

95th percentile per-packet one-way delay: 19.082 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 44.69 Mbit/s

95th percentile per-packet one-way delay: 16.285 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 33.19 Mbit/s

95th percentile per-packet one-way delay: 19.063 ms

Loss rate: 0.01%

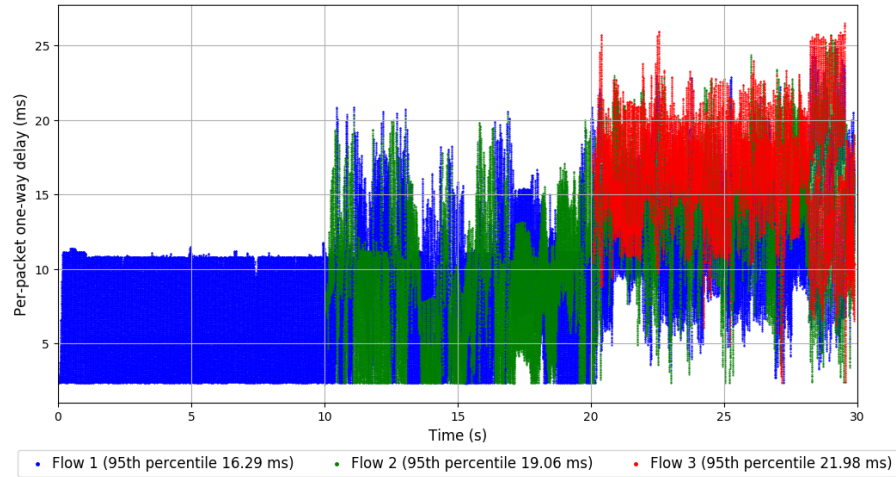
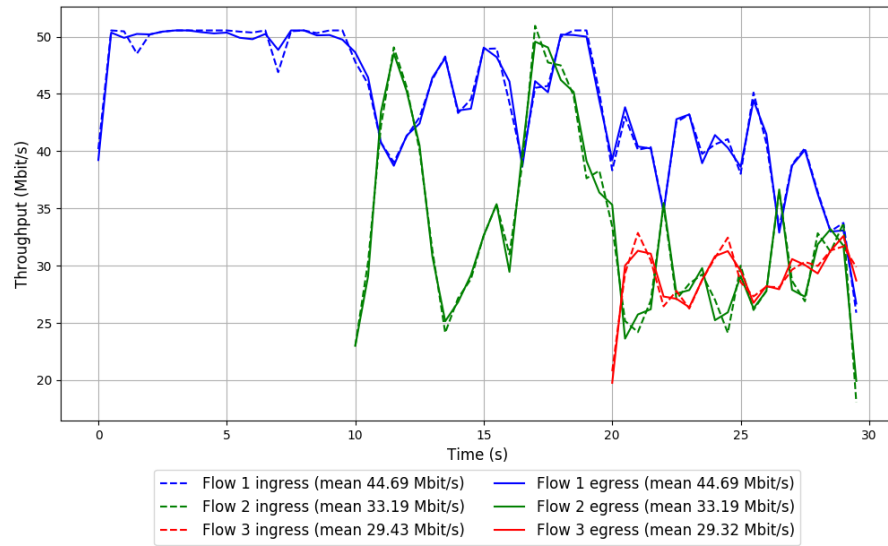
-- Flow 3:

Average throughput: 29.32 Mbit/s

95th percentile per-packet one-way delay: 21.976 ms

Loss rate: 0.35%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-02 22:40:32

End at: 2018-02-02 22:41:02

Local clock offset: 0.295 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2018-02-03 05:04:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.59 Mbit/s

95th percentile per-packet one-way delay: 20.676 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 42.28 Mbit/s

95th percentile per-packet one-way delay: 19.560 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 36.92 Mbit/s

95th percentile per-packet one-way delay: 20.807 ms

Loss rate: 0.10%

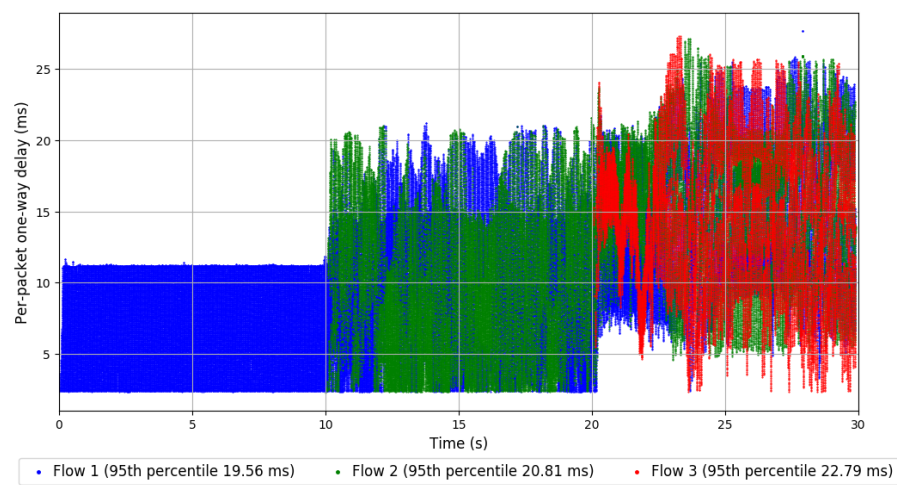
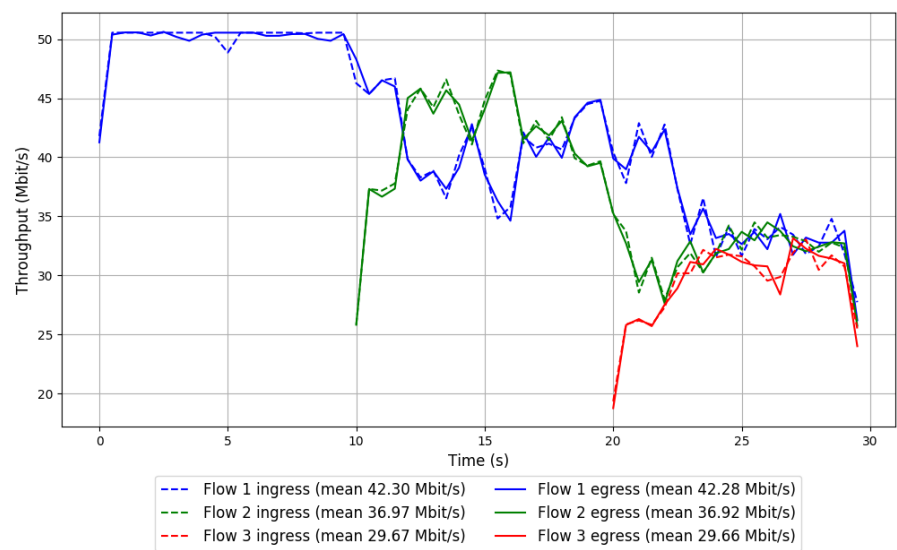
-- Flow 3:

Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 22.788 ms

Loss rate: 0.30%

Run 2: Report of Sprout — Data Link

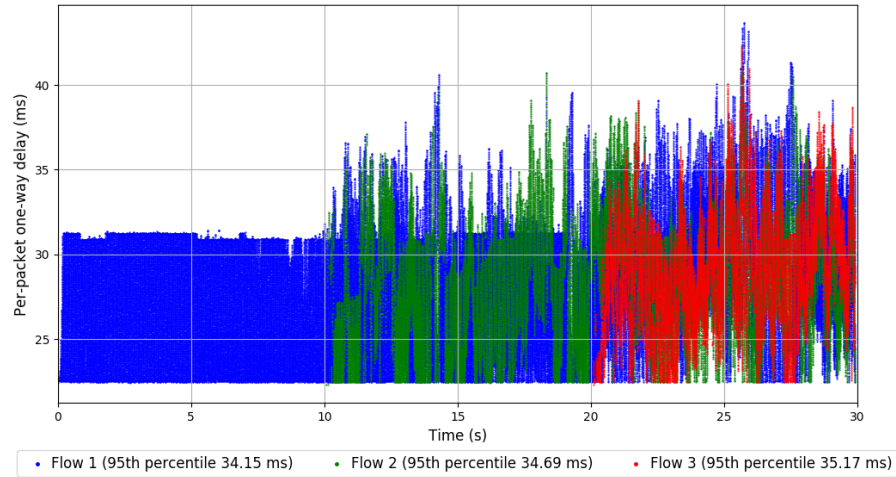
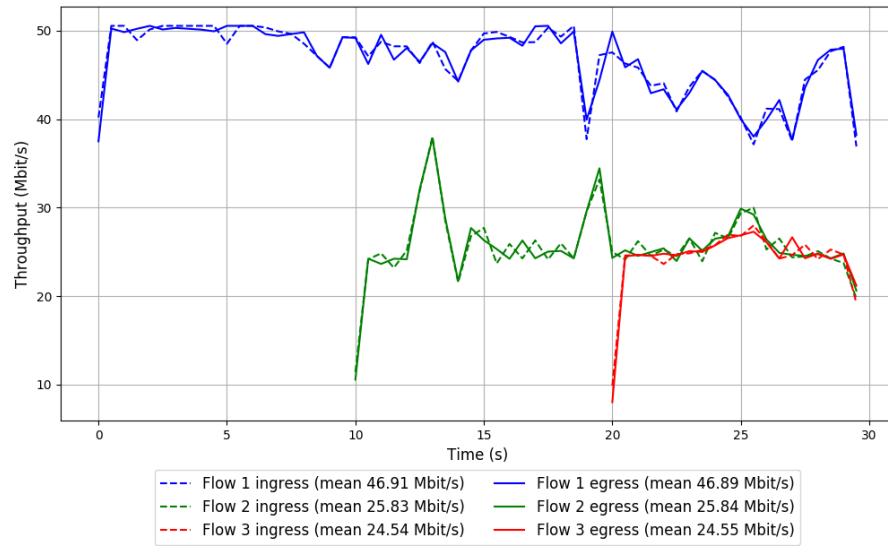


Run 3: Statistics of Sprout

Start at: 2018-02-02 23:00:47
End at: 2018-02-02 23:01:17
Local clock offset: 0.238 ms
Remote clock offset: -19.903 ms

Below is generated by plot.py at 2018-02-03 05:04:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.15 Mbit/s
95th percentile per-packet one-way delay: 34.461 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 46.89 Mbit/s
95th percentile per-packet one-way delay: 34.153 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 25.84 Mbit/s
95th percentile per-packet one-way delay: 34.692 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 35.171 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

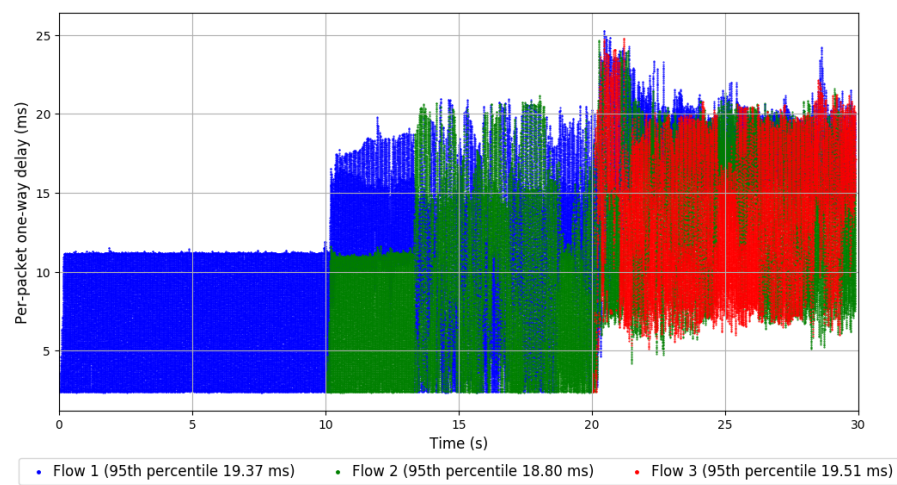
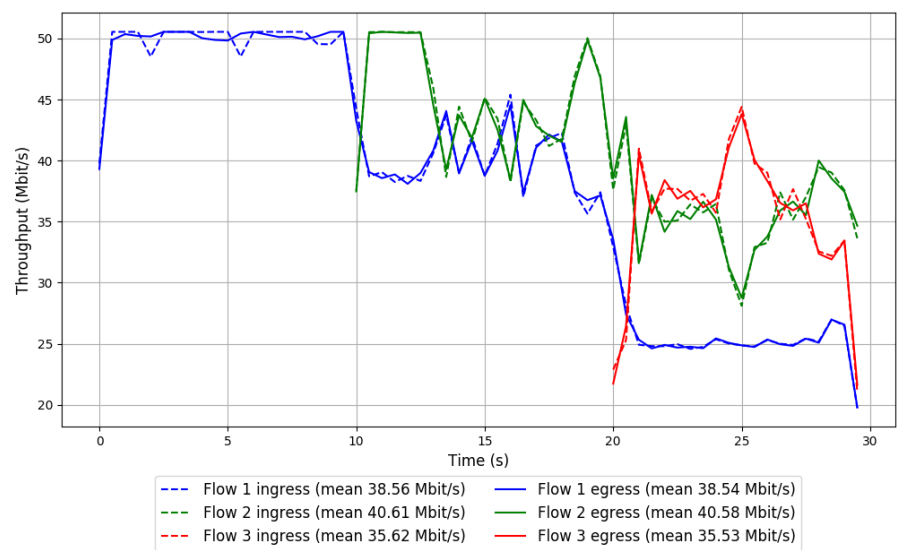


Run 4: Statistics of Sprout

Start at: 2018-02-02 23:21:11
End at: 2018-02-02 23:21:41
Local clock offset: 0.308 ms
Remote clock offset: 0.657 ms

```
# Below is generated by plot.py at 2018-02-03 05:05:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.25 Mbit/s
95th percentile per-packet one-way delay: 19.223 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 19.368 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 40.58 Mbit/s
95th percentile per-packet one-way delay: 18.795 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 19.514 ms
Loss rate: 0.10%
```

Run 4: Report of Sprout — Data Link

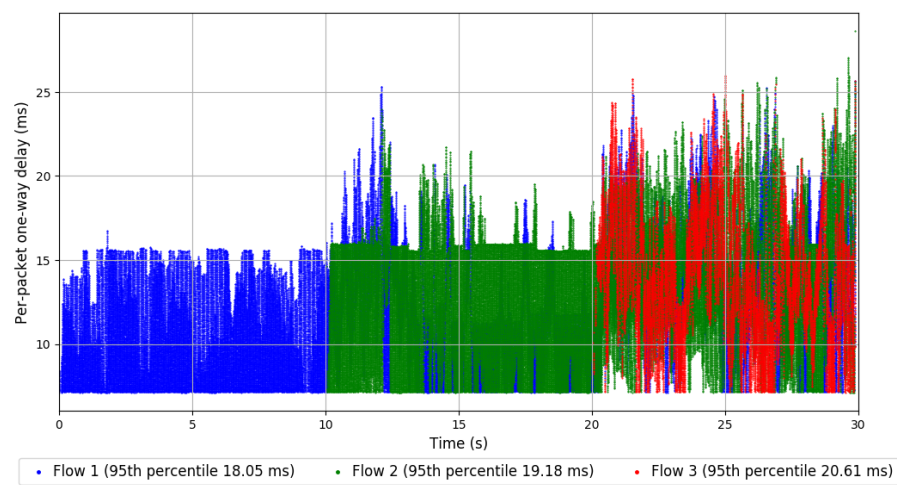
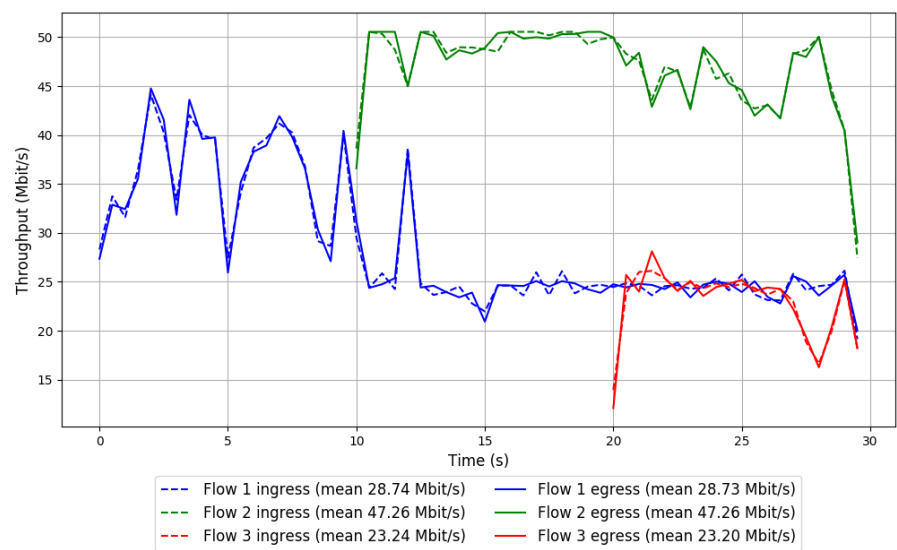


Run 5: Statistics of Sprout

Start at: 2018-02-02 23:41:38
End at: 2018-02-02 23:42:08
Local clock offset: 0.27 ms
Remote clock offset: -3.871 ms

```
# Below is generated by plot.py at 2018-02-03 05:05:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.77 Mbit/s
95th percentile per-packet one-way delay: 19.056 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 28.73 Mbit/s
95th percentile per-packet one-way delay: 18.053 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 19.178 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 23.20 Mbit/s
95th percentile per-packet one-way delay: 20.611 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

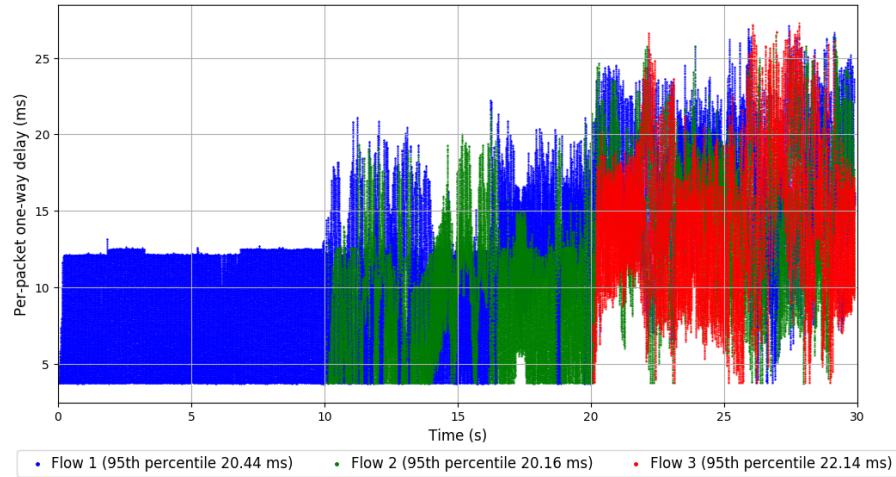
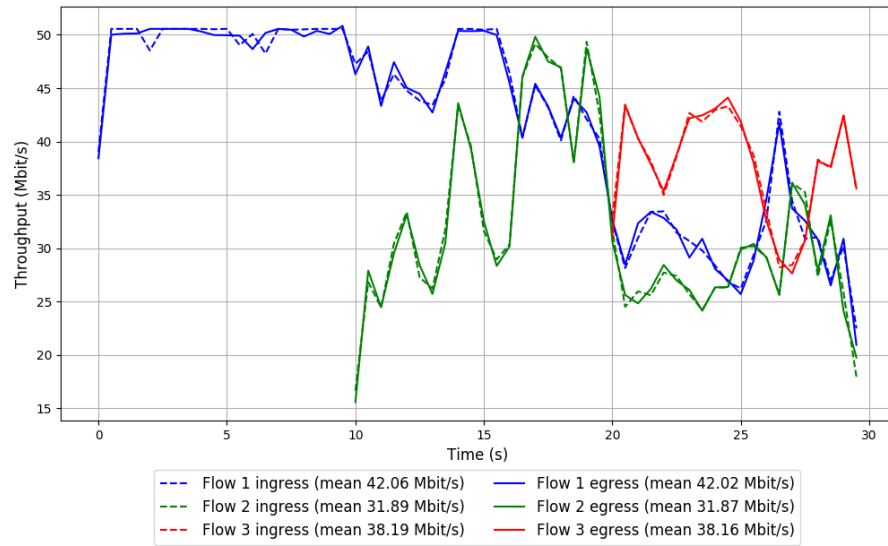


Run 6: Statistics of Sprout

Start at: 2018-02-03 00:01:59
End at: 2018-02-03 00:02:29
Local clock offset: 0.174 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-02-03 05:05:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 20.667 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 42.02 Mbit/s
95th percentile per-packet one-way delay: 20.440 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 20.156 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.16 Mbit/s
95th percentile per-packet one-way delay: 22.137 ms
Loss rate: 0.21%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-03 00:22:18

End at: 2018-02-03 00:22:48

Local clock offset: 0.177 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-02-03 05:05:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 17.717 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 32.57 Mbit/s

95th percentile per-packet one-way delay: 17.245 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 44.29 Mbit/s

95th percentile per-packet one-way delay: 18.293 ms

Loss rate: 0.00%

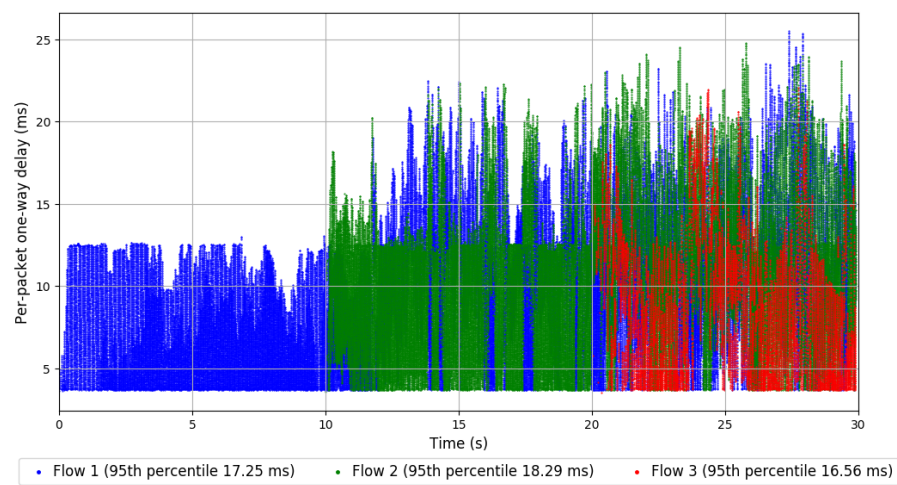
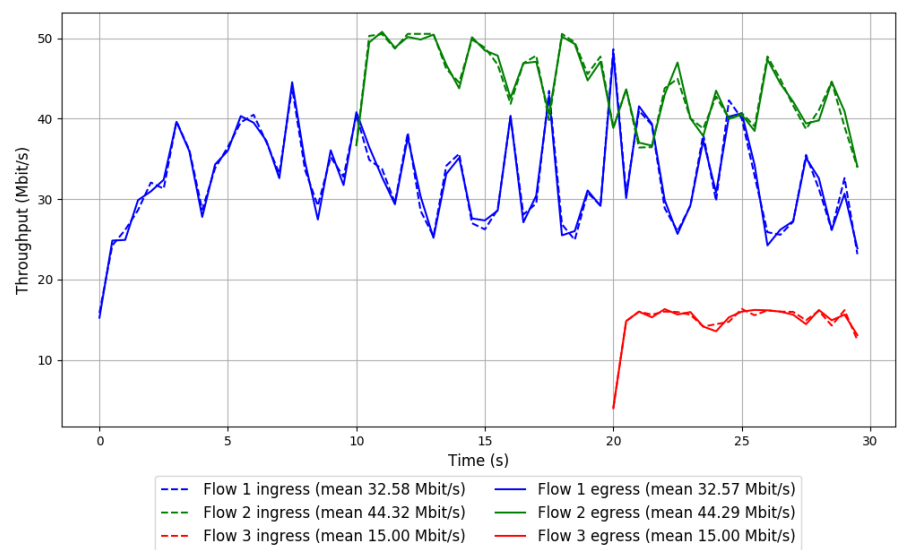
-- Flow 3:

Average throughput: 15.00 Mbit/s

95th percentile per-packet one-way delay: 16.559 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-03 00:42:38

End at: 2018-02-03 00:43:08

Local clock offset: 0.222 ms

Remote clock offset: 1.64 ms

Below is generated by plot.py at 2018-02-03 05:05:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 16.033 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 39.08 Mbit/s

95th percentile per-packet one-way delay: 14.729 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.79 Mbit/s

95th percentile per-packet one-way delay: 18.312 ms

Loss rate: 0.02%

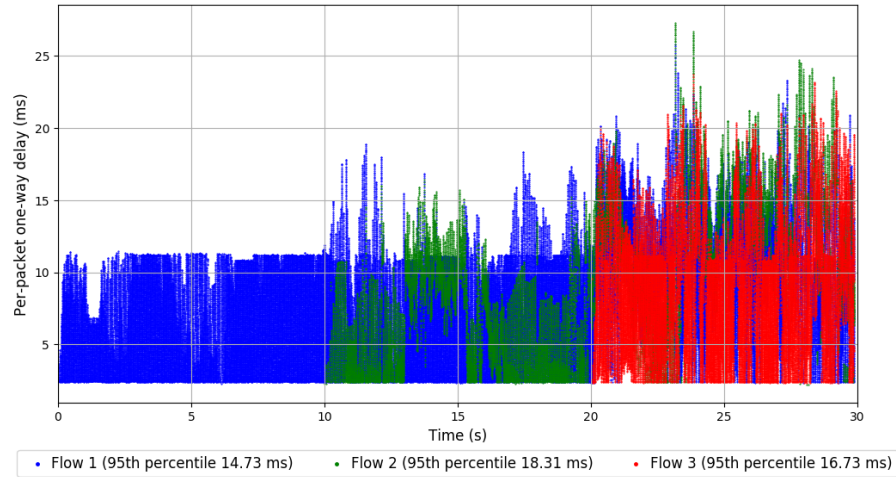
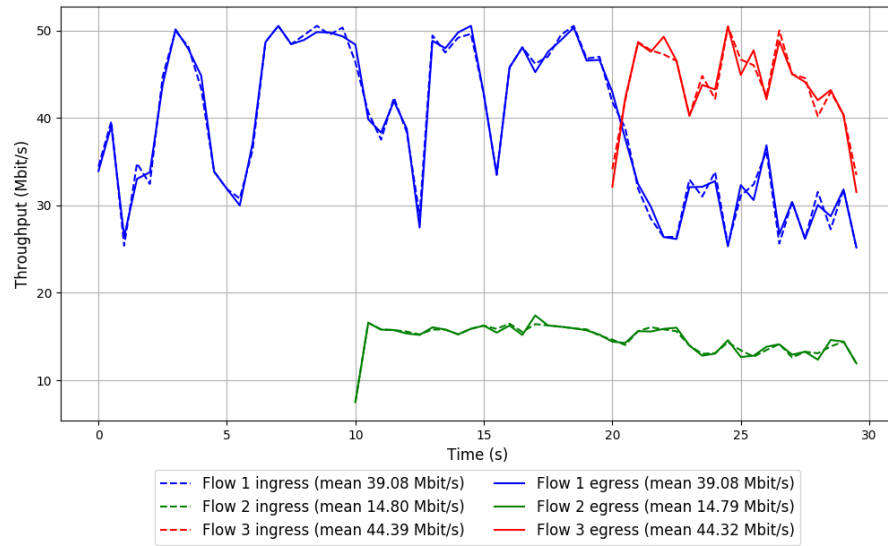
-- Flow 3:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 16.725 ms

Loss rate: 0.22%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

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

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

Local clock offset: 0.201 ms

Remote clock offset: 1.219 ms

Below is generated by plot.py at 2018-02-03 05:05:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.91 Mbit/s

95th percentile per-packet one-way delay: 20.442 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 43.03 Mbit/s

95th percentile per-packet one-way delay: 19.431 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 38.36 Mbit/s

95th percentile per-packet one-way delay: 20.071 ms

Loss rate: 0.07%

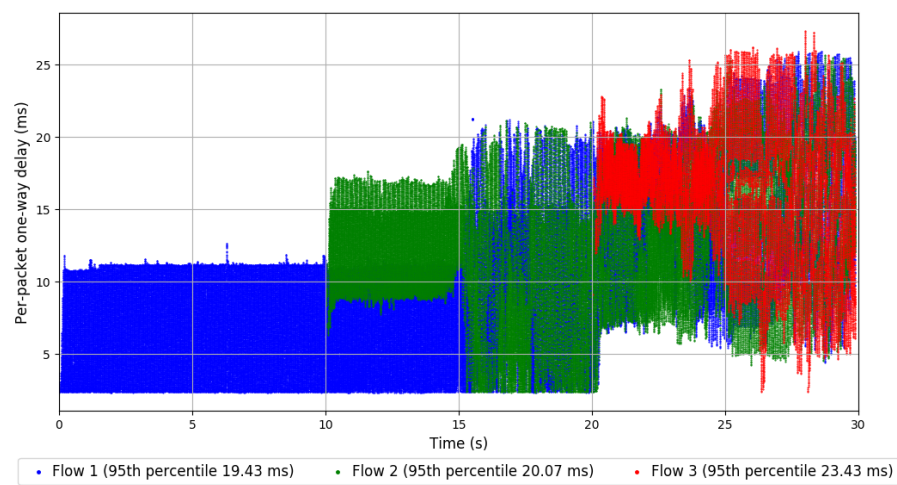
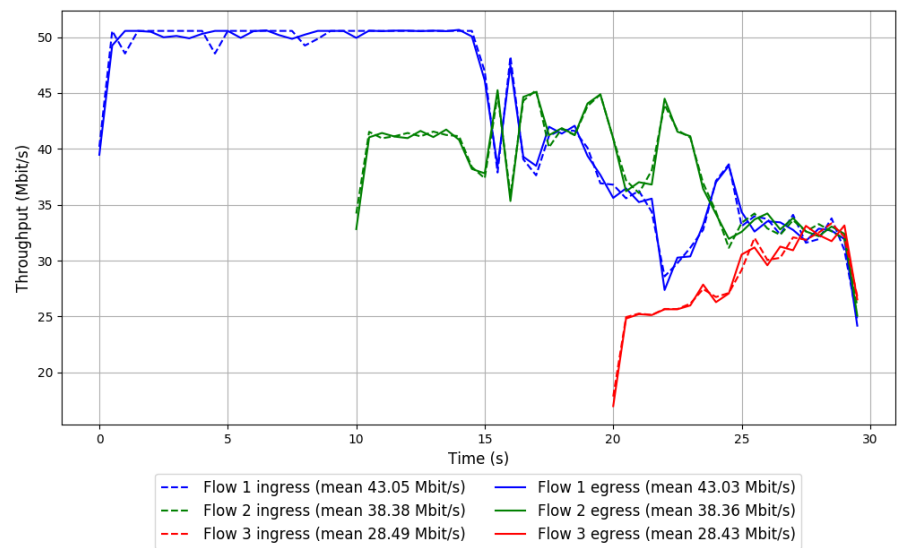
-- Flow 3:

Average throughput: 28.43 Mbit/s

95th percentile per-packet one-way delay: 23.426 ms

Loss rate: 0.23%

Run 9: Report of Sprout — Data Link

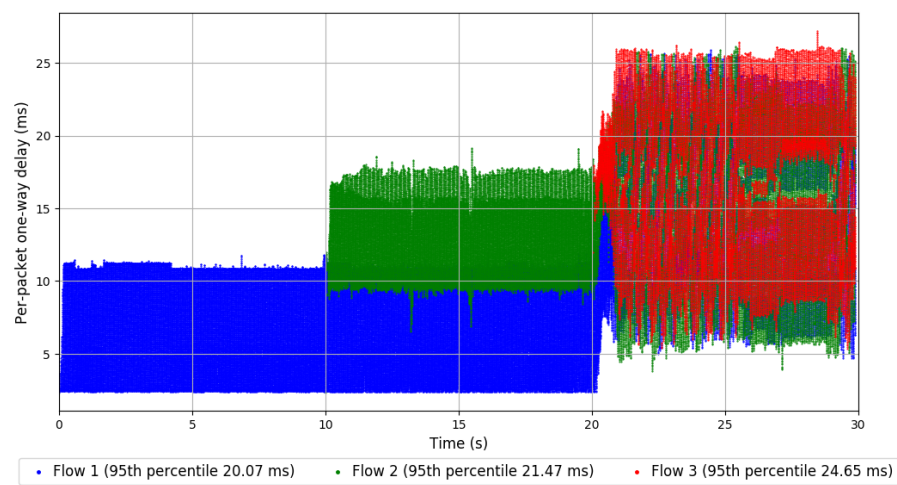
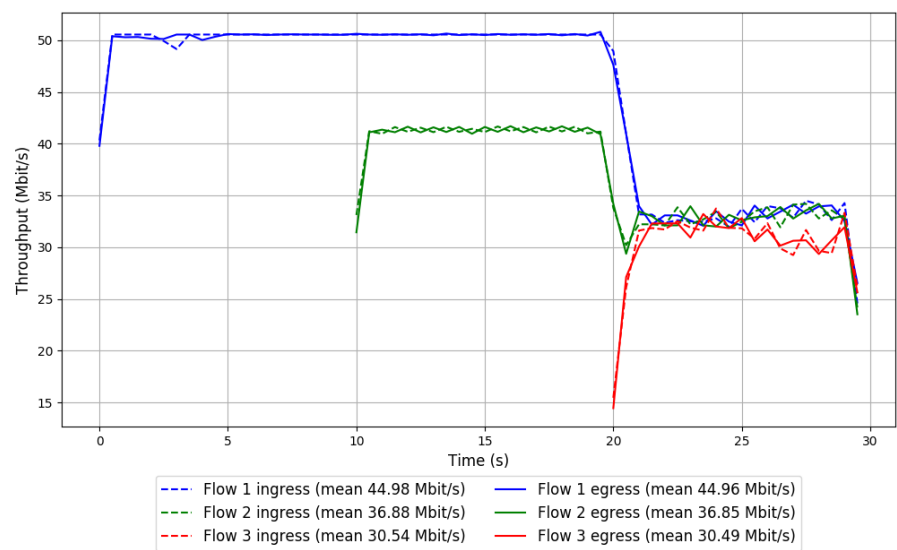


Run 10: Statistics of Sprout

Start at: 2018-02-03 01:23:34
End at: 2018-02-03 01:24:04
Local clock offset: 0.132 ms
Remote clock offset: 0.946 ms

Below is generated by plot.py at 2018-02-03 05:05:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.51 Mbit/s
95th percentile per-packet one-way delay: 21.991 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 44.96 Mbit/s
95th percentile per-packet one-way delay: 20.068 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 21.467 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 30.49 Mbit/s
95th percentile per-packet one-way delay: 24.650 ms
Loss rate: 0.33%

Run 10: Report of Sprout — Data Link

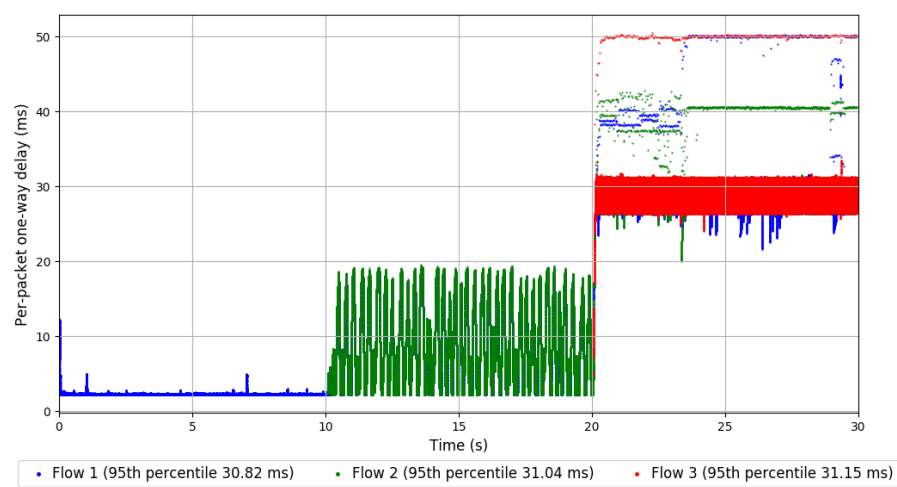
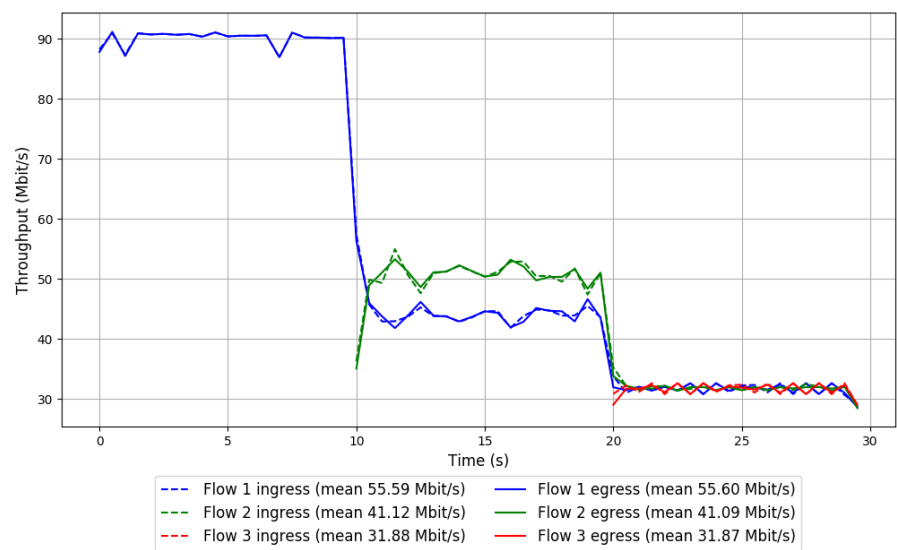


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-02 22:10:02
End at: 2018-02-02 22:10:32
Local clock offset: 0.141 ms
Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2018-02-03 05:07:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 31.057 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 55.60 Mbit/s
95th percentile per-packet one-way delay: 30.816 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 31.042 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 31.87 Mbit/s
95th percentile per-packet one-way delay: 31.147 ms
Loss rate: 0.29%
```


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

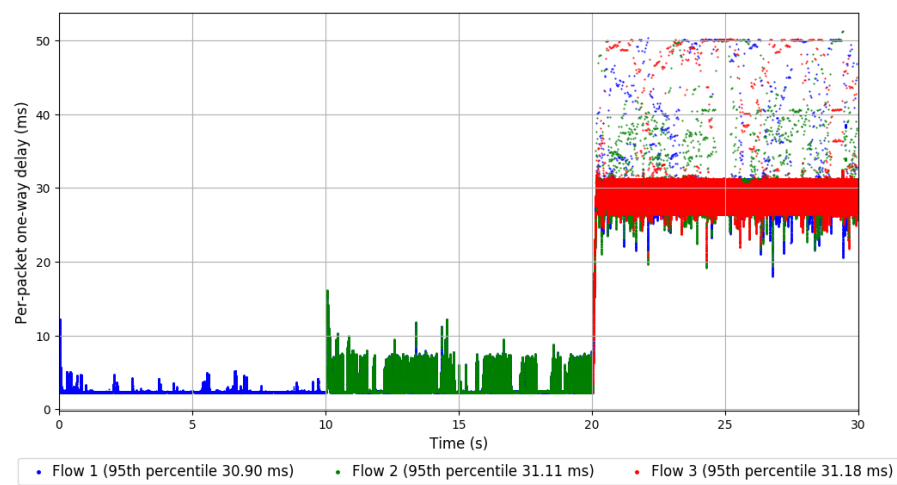
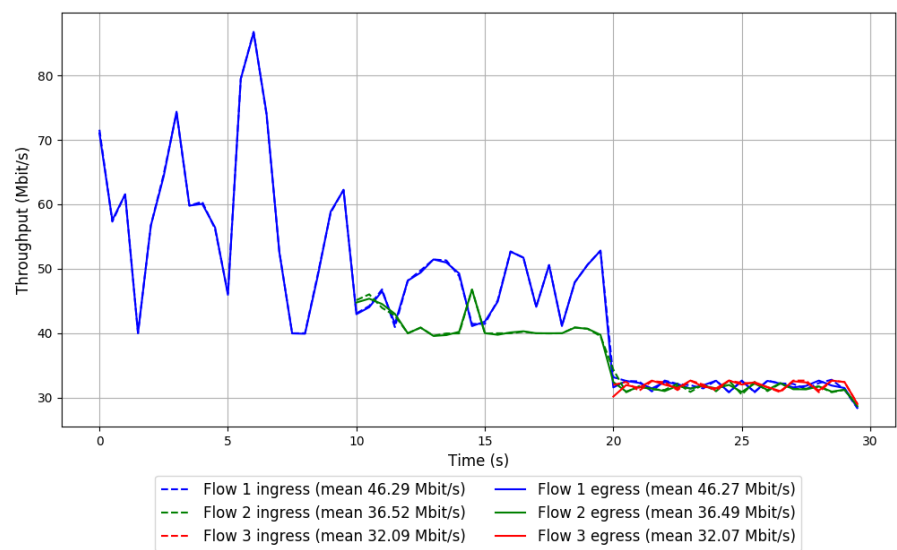


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-02 22:30:20
End at: 2018-02-02 22:30:50
Local clock offset: 0.238 ms
Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2018-02-03 05:07:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.13 Mbit/s
95th percentile per-packet one-way delay: 31.105 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 46.27 Mbit/s
95th percentile per-packet one-way delay: 30.900 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 36.49 Mbit/s
95th percentile per-packet one-way delay: 31.114 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.07 Mbit/s
95th percentile per-packet one-way delay: 31.179 ms
Loss rate: 0.29%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-02 22:50:37

End at: 2018-02-02 22:51:07

Local clock offset: 0.258 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-02-03 05:07:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.22 Mbit/s

95th percentile per-packet one-way delay: 31.081 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 57.68 Mbit/s

95th percentile per-packet one-way delay: 30.954 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 36.01 Mbit/s

95th percentile per-packet one-way delay: 31.075 ms

Loss rate: 0.13%

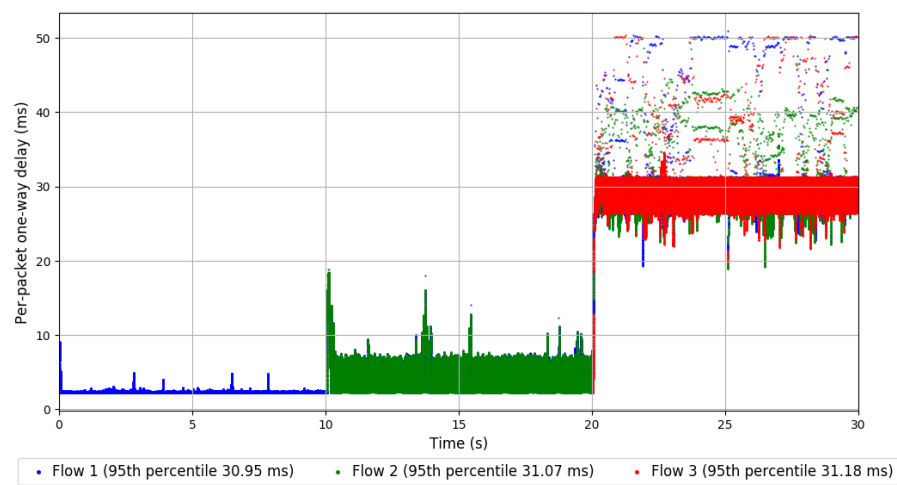
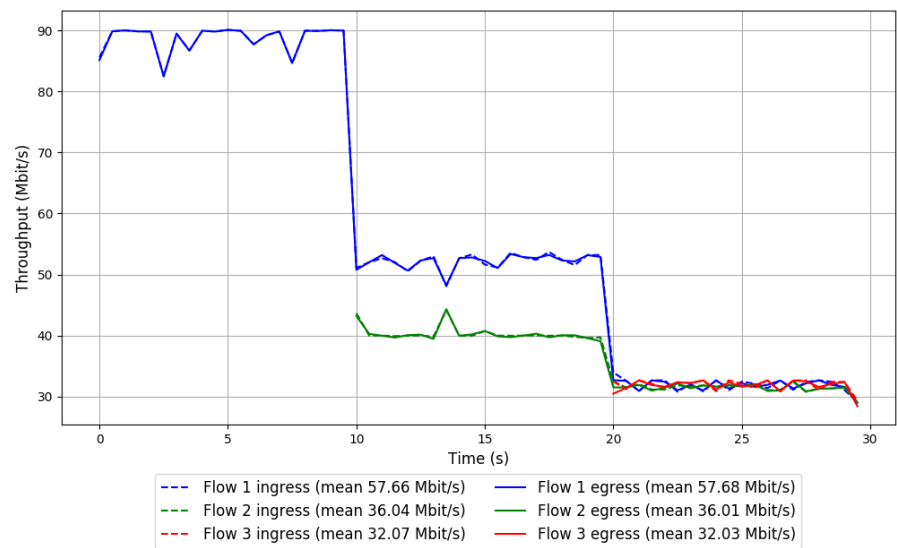
-- Flow 3:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 31.181 ms

Loss rate: 0.42%

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

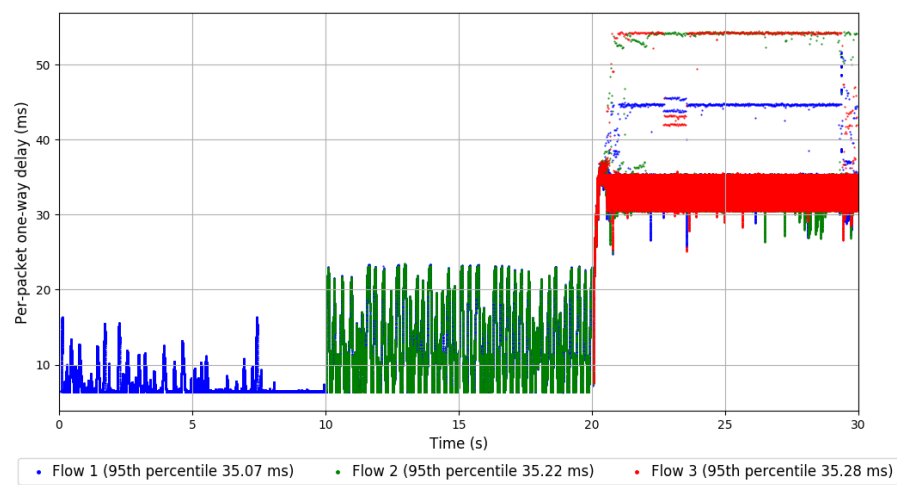
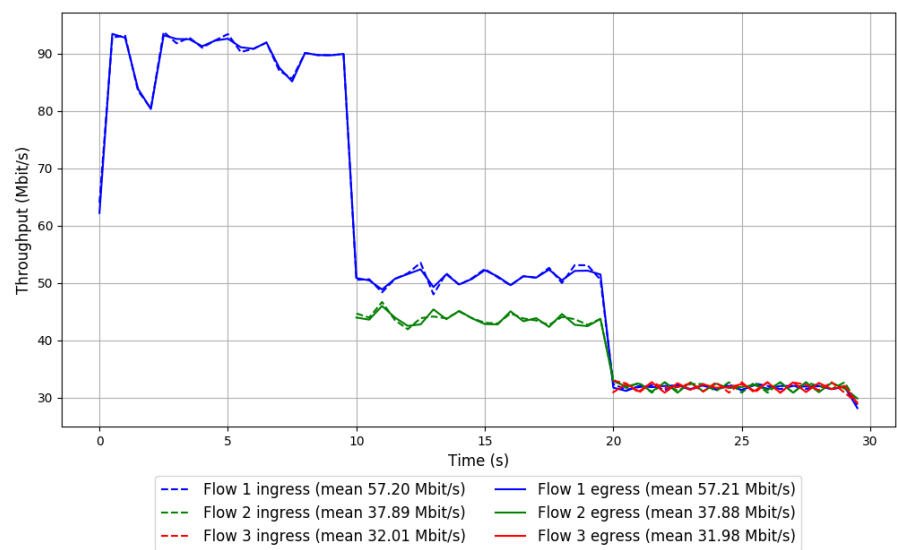


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-02 23:10:59
End at: 2018-02-02 23:11:29
Local clock offset: 0.283 ms
Remote clock offset: -3.622 ms

Below is generated by plot.py at 2018-02-03 05:07:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 35.209 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 35.067 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 35.223 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 35.279 ms
Loss rate: 0.30%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-02 23:31:24

End at: 2018-02-02 23:31:54

Local clock offset: 0.275 ms

Remote clock offset: 0.782 ms

Below is generated by plot.py at 2018-02-03 05:07:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 31.131 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 56.44 Mbit/s

95th percentile per-packet one-way delay: 30.923 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 36.11 Mbit/s

95th percentile per-packet one-way delay: 31.157 ms

Loss rate: 0.15%

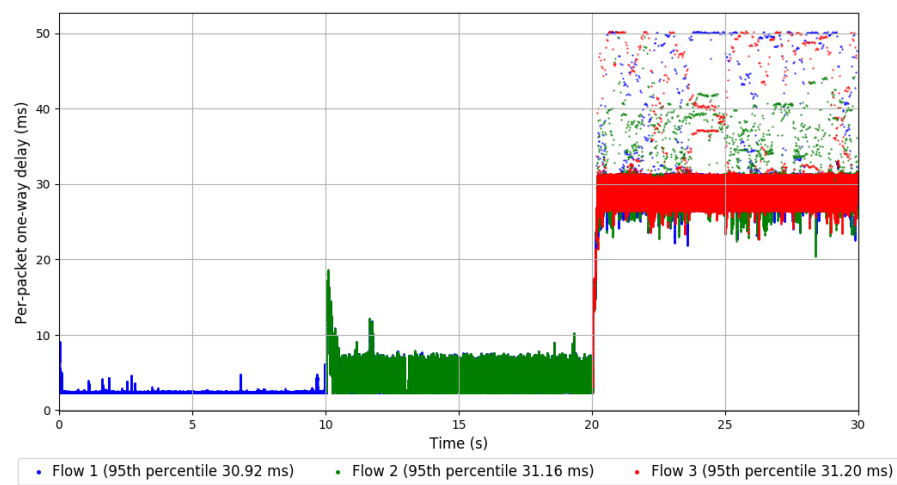
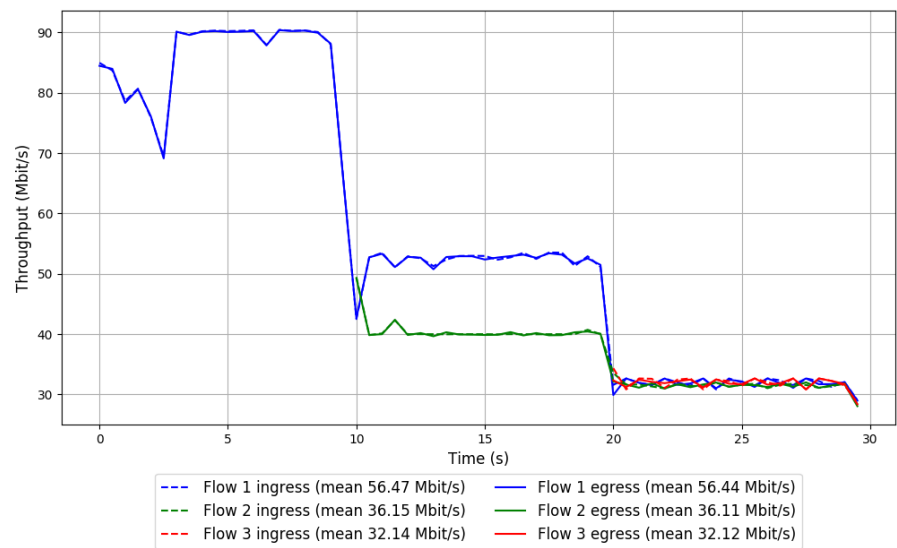
-- Flow 3:

Average throughput: 32.12 Mbit/s

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

Loss rate: 0.29%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-02 23:51:49

End at: 2018-02-02 23:52:19

Local clock offset: 0.183 ms

Remote clock offset: 1.08 ms

Below is generated by plot.py at 2018-02-03 05:07:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.35 Mbit/s

95th percentile per-packet one-way delay: 30.955 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 38.98 Mbit/s

95th percentile per-packet one-way delay: 30.705 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 41.84 Mbit/s

95th percentile per-packet one-way delay: 30.906 ms

Loss rate: 0.11%

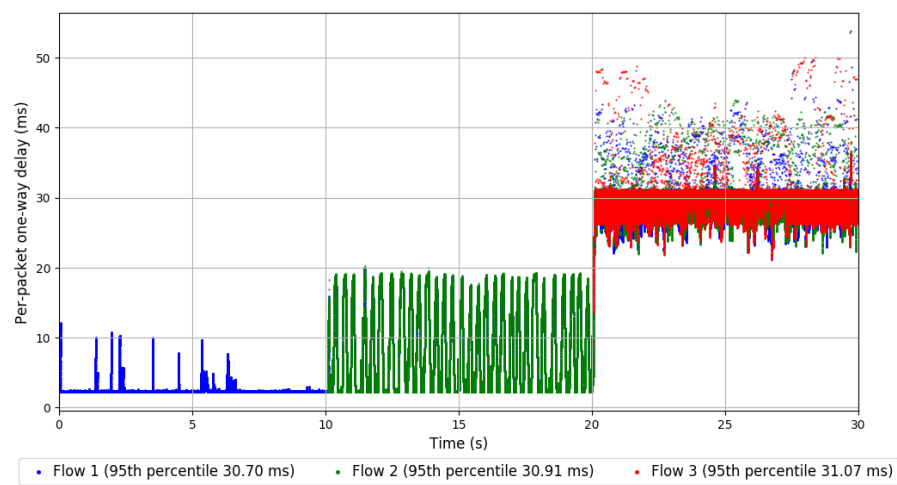
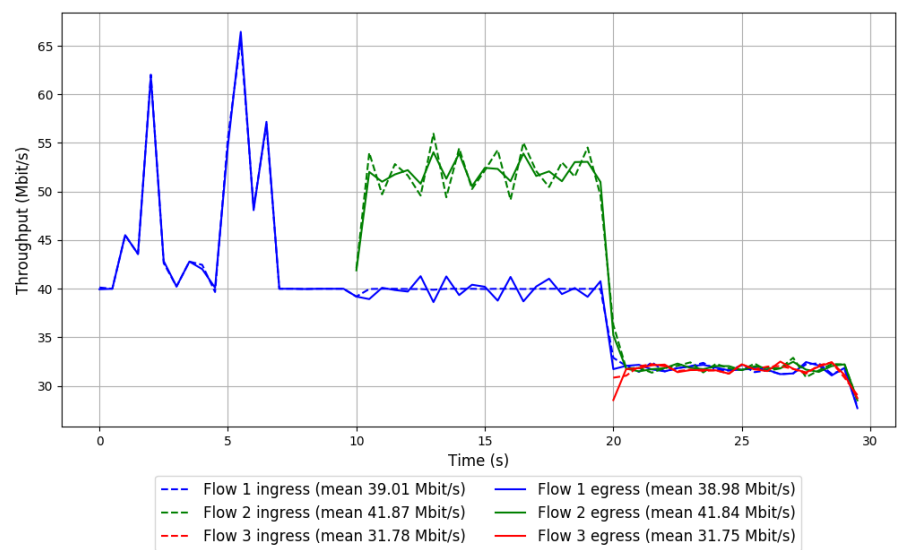
-- Flow 3:

Average throughput: 31.75 Mbit/s

95th percentile per-packet one-way delay: 31.065 ms

Loss rate: 0.29%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-03 00:12:07

End at: 2018-02-03 00:12:37

Local clock offset: 0.143 ms

Remote clock offset: 1.275 ms

Below is generated by plot.py at 2018-02-03 05:07:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.14 Mbit/s

95th percentile per-packet one-way delay: 31.055 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 39.88 Mbit/s

95th percentile per-packet one-way delay: 30.747 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 37.31 Mbit/s

95th percentile per-packet one-way delay: 31.051 ms

Loss rate: 0.19%

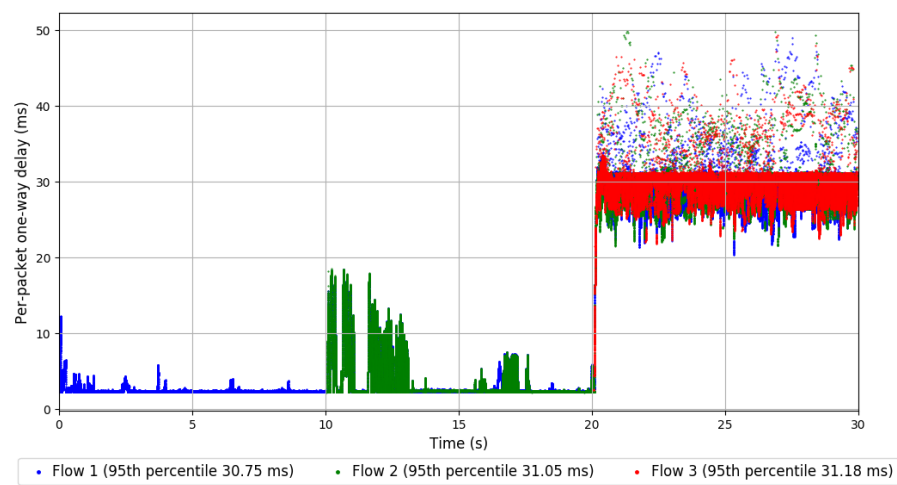
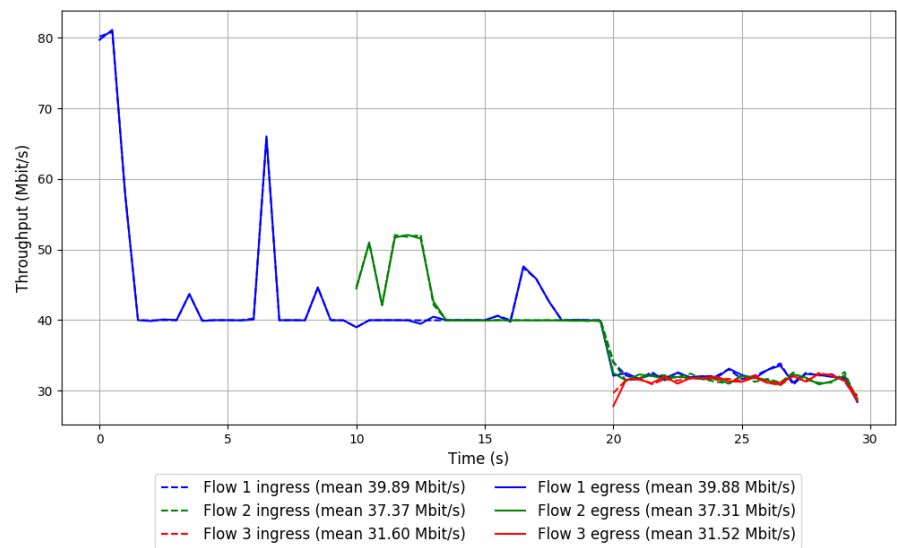
-- Flow 3:

Average throughput: 31.52 Mbit/s

95th percentile per-packet one-way delay: 31.177 ms

Loss rate: 0.40%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-03 00:32:24

End at: 2018-02-03 00:32:54

Local clock offset: 0.192 ms

Remote clock offset: 1.605 ms

Below is generated by plot.py at 2018-02-03 05:08:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.06 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 29.921 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 38.10 Mbit/s

95th percentile per-packet one-way delay: 31.164 ms

Loss rate: 0.18%

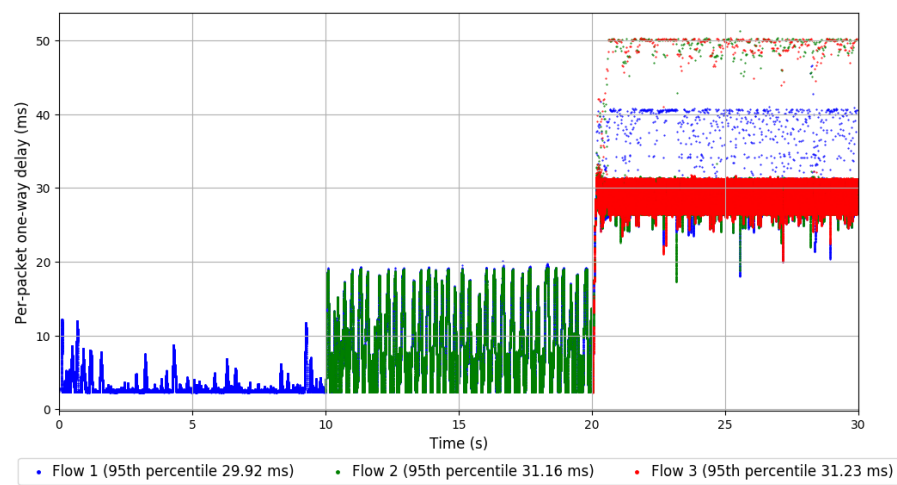
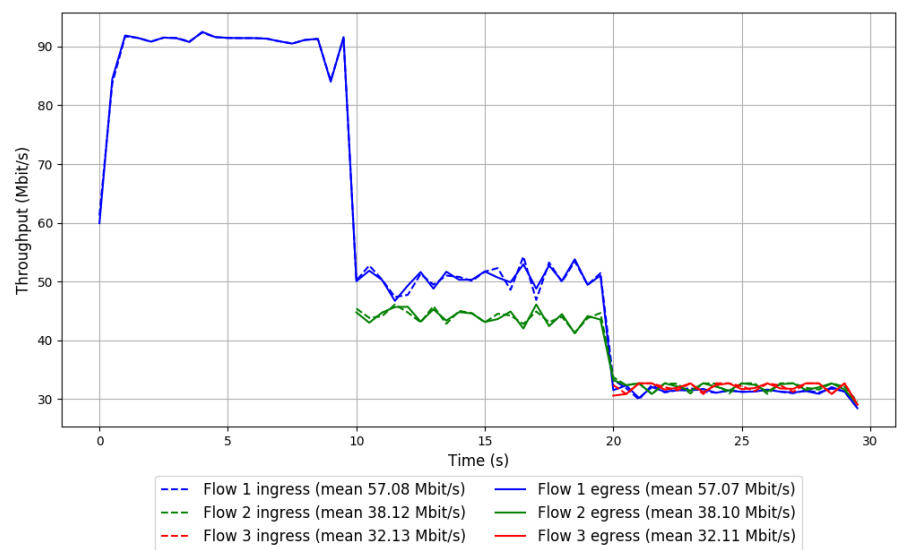
-- Flow 3:

Average throughput: 32.11 Mbit/s

95th percentile per-packet one-way delay: 31.232 ms

Loss rate: 0.29%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-03 00:52:54

End at: 2018-02-03 00:53:24

Local clock offset: 0.202 ms

Remote clock offset: 1.402 ms

Below is generated by plot.py at 2018-02-03 05:09:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.85 Mbit/s

95th percentile per-packet one-way delay: 31.066 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 56.21 Mbit/s

95th percentile per-packet one-way delay: 30.692 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 36.47 Mbit/s

95th percentile per-packet one-way delay: 31.063 ms

Loss rate: 0.12%

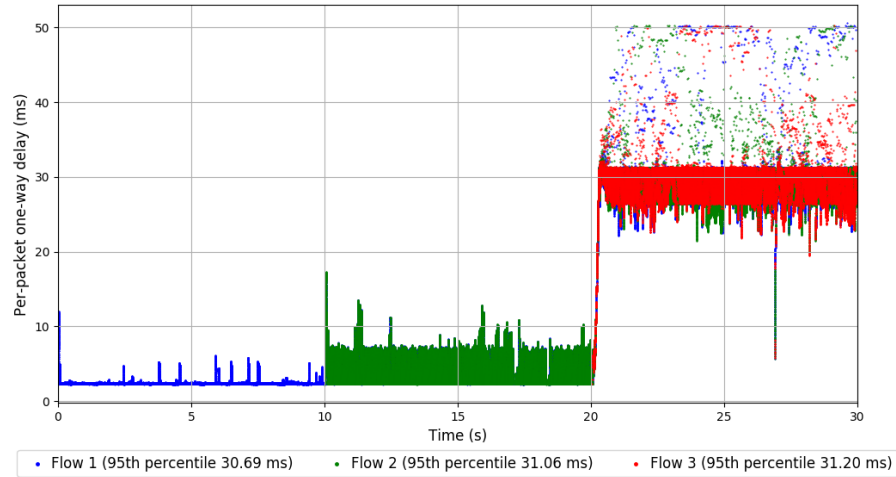
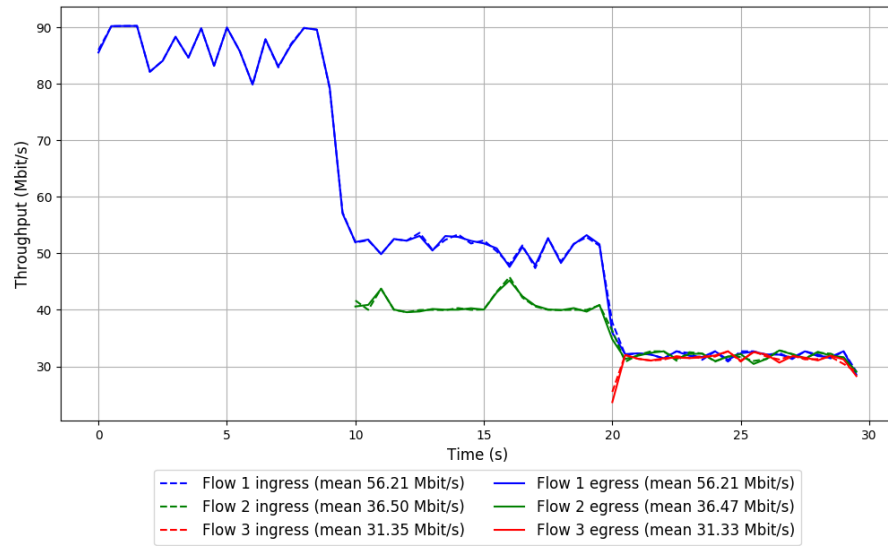
-- Flow 3:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 31.201 ms

Loss rate: 0.30%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-02-03 01:13:19

End at: 2018-02-03 01:13:49

Local clock offset: 0.165 ms

Remote clock offset: 0.975 ms

Below is generated by plot.py at 2018-02-03 05:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 31.230 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 55.19 Mbit/s

95th percentile per-packet one-way delay: 30.172 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.73 Mbit/s

95th percentile per-packet one-way delay: 31.253 ms

Loss rate: 0.13%

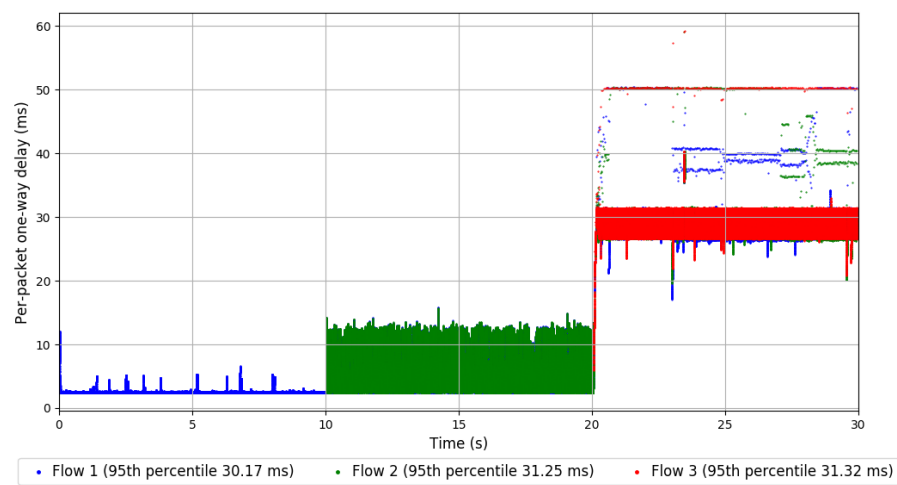
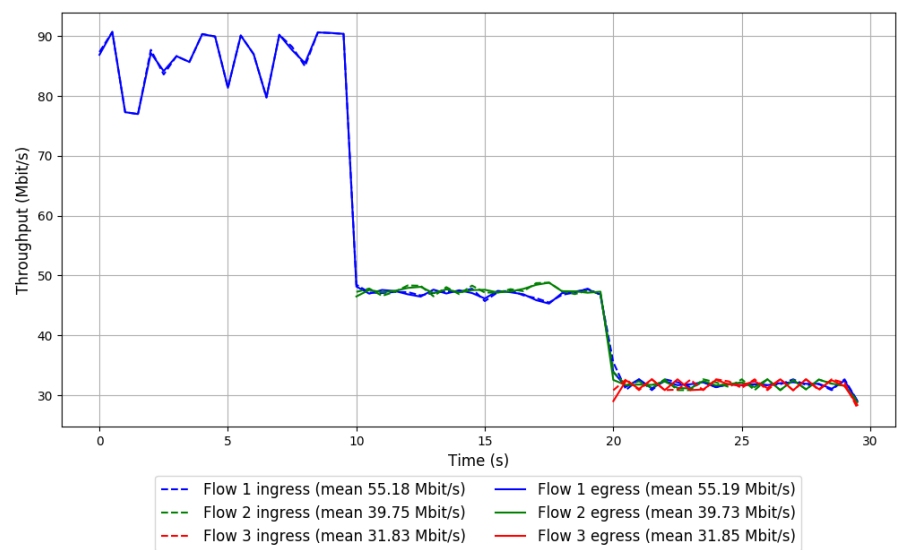
-- Flow 3:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 31.320 ms

Loss rate: 0.29%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-02 22:24:41

End at: 2018-02-02 22:25:11

Local clock offset: 0.137 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2018-02-03 05:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.47 Mbit/s

95th percentile per-packet one-way delay: 4.701 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 25.09 Mbit/s

95th percentile per-packet one-way delay: 11.275 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 34.95 Mbit/s

95th percentile per-packet one-way delay: 4.032 ms

Loss rate: 0.02%

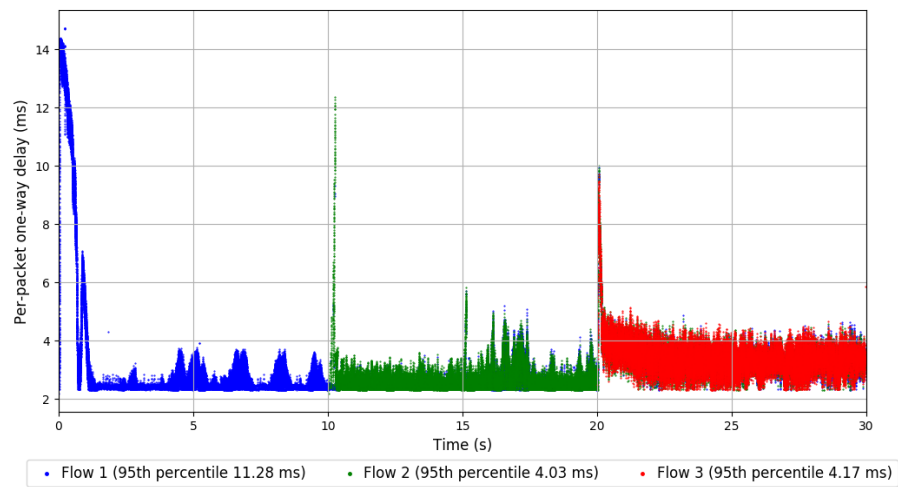
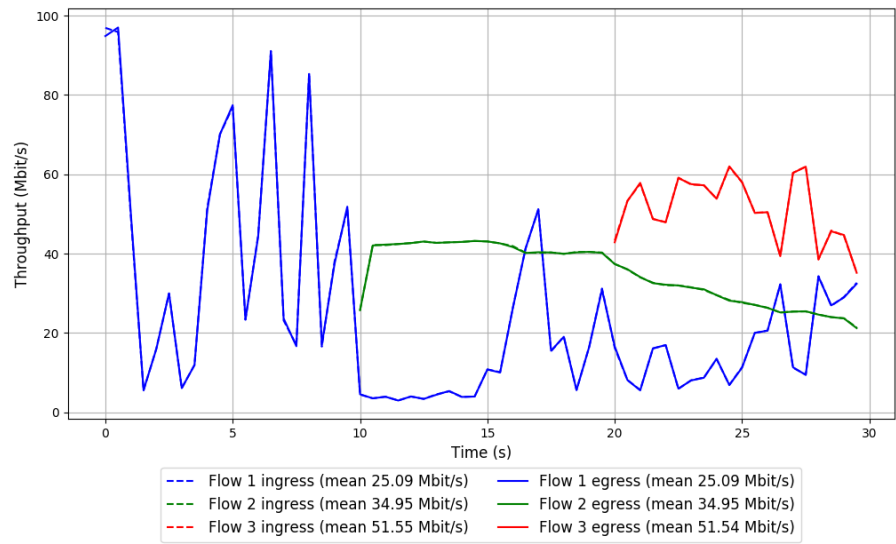
-- Flow 3:

Average throughput: 51.54 Mbit/s

95th percentile per-packet one-way delay: 4.167 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link

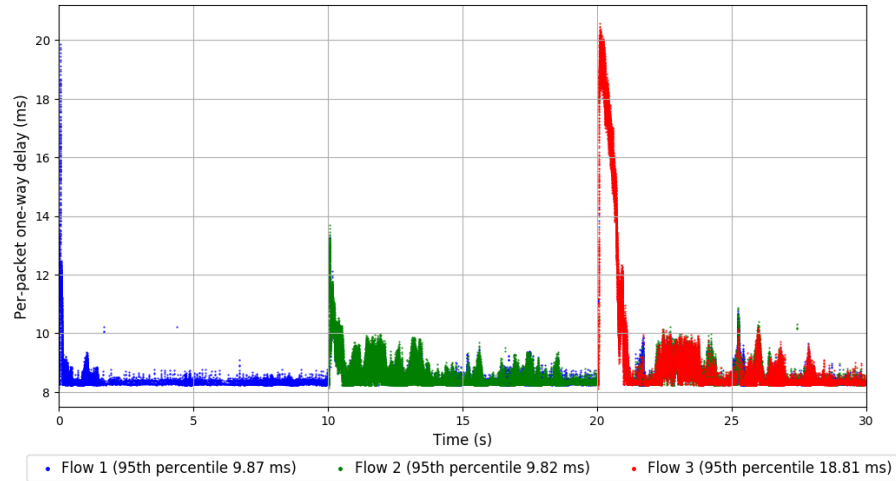
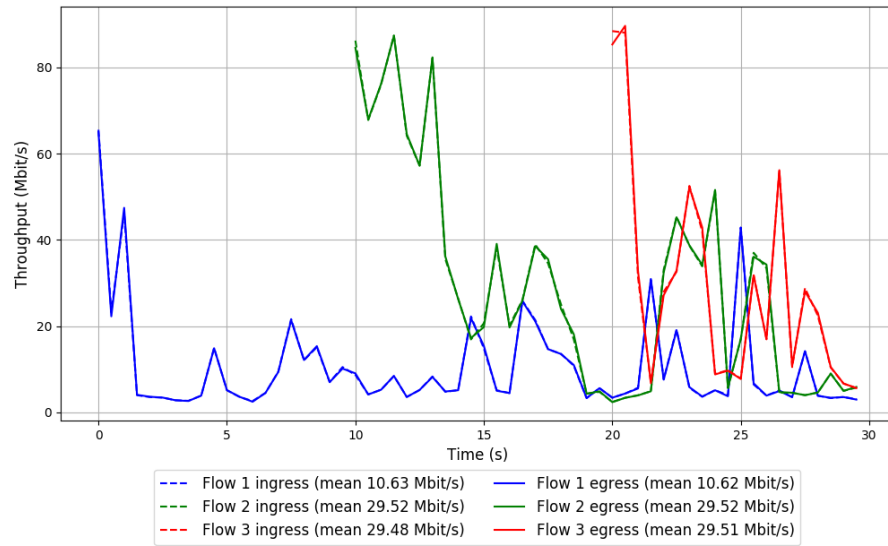


Run 2: Statistics of TCP Vegas

Start at: 2018-02-02 22:44:59
End at: 2018-02-02 22:45:29
Local clock offset: 0.179 ms
Remote clock offset: -5.738 ms

Below is generated by plot.py at 2018-02-03 05:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.06 Mbit/s
95th percentile per-packet one-way delay: 14.748 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 10.62 Mbit/s
95th percentile per-packet one-way delay: 9.871 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 29.52 Mbit/s
95th percentile per-packet one-way delay: 9.822 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 18.813 ms
Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link

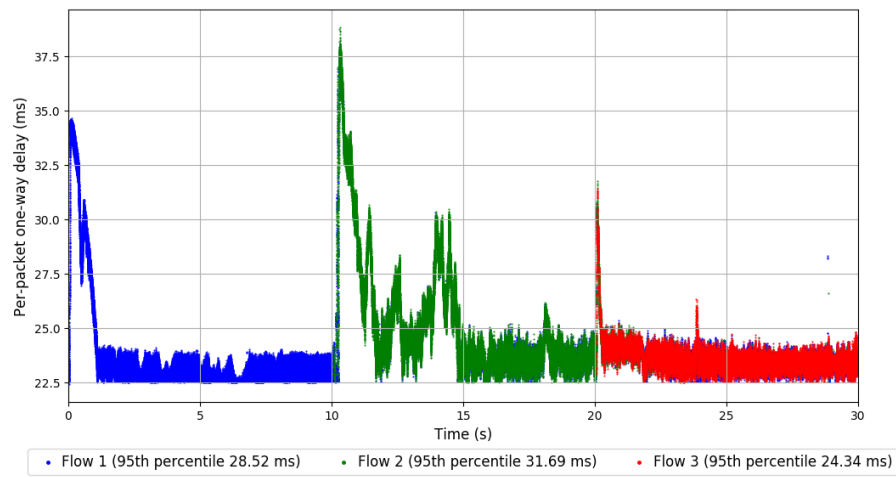
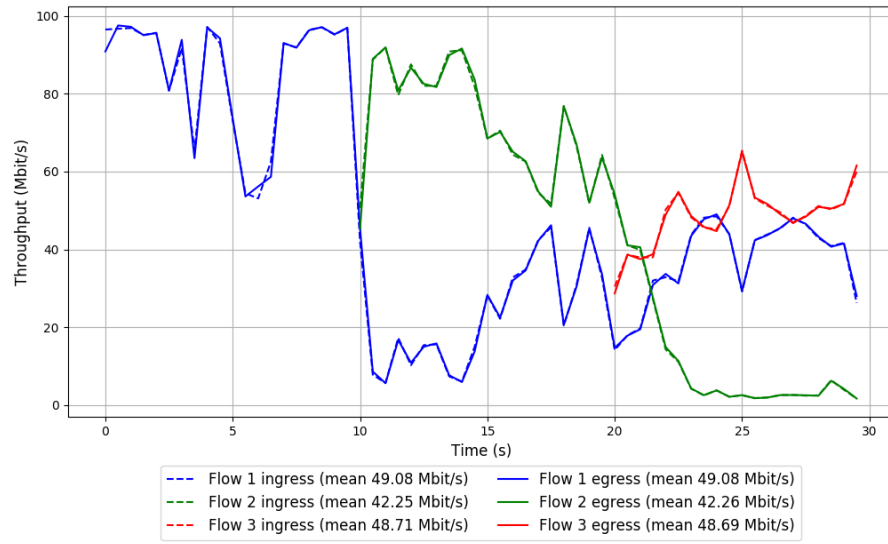


Run 3: Statistics of TCP Vegas

Start at: 2018-02-02 23:05:16
End at: 2018-02-02 23:05:46
Local clock offset: 0.217 ms
Remote clock offset: -19.926 ms

Below is generated by plot.py at 2018-02-03 05:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 29.327 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 49.08 Mbit/s
95th percentile per-packet one-way delay: 28.518 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 42.26 Mbit/s
95th percentile per-packet one-way delay: 31.689 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 24.335 ms
Loss rate: 0.09%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-02 23:25:40

End at: 2018-02-02 23:26:10

Local clock offset: 0.281 ms

Remote clock offset: 0.753 ms

Below is generated by plot.py at 2018-02-03 05:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.51 Mbit/s

95th percentile per-packet one-way delay: 9.839 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 81.09 Mbit/s

95th percentile per-packet one-way delay: 7.794 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 8.10 Mbit/s

95th percentile per-packet one-way delay: 4.988 ms

Loss rate: 0.04%

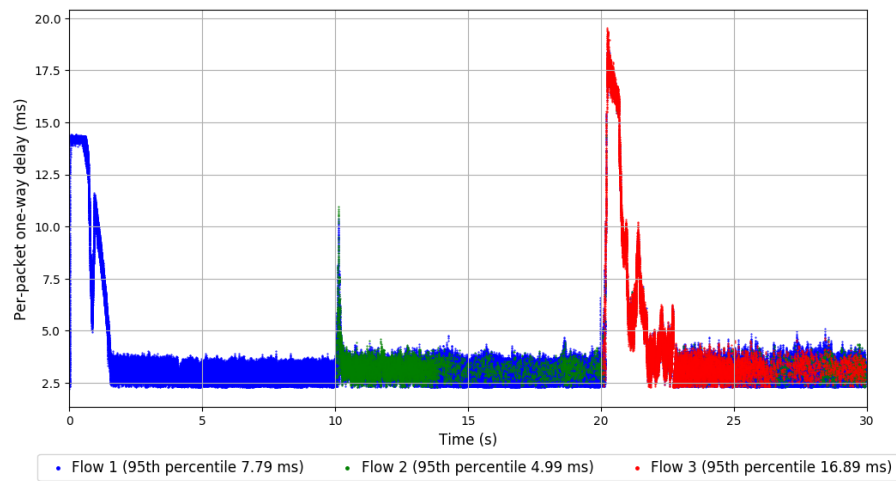
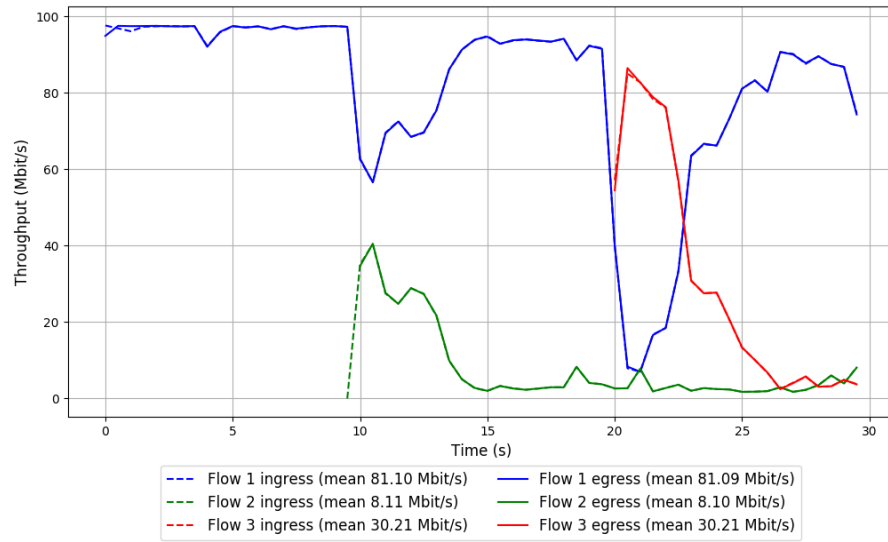
-- Flow 3:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 16.893 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link

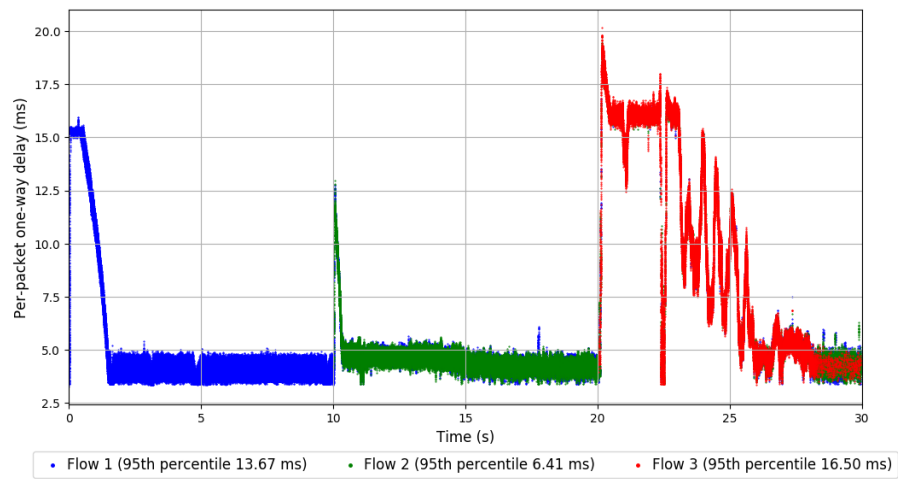
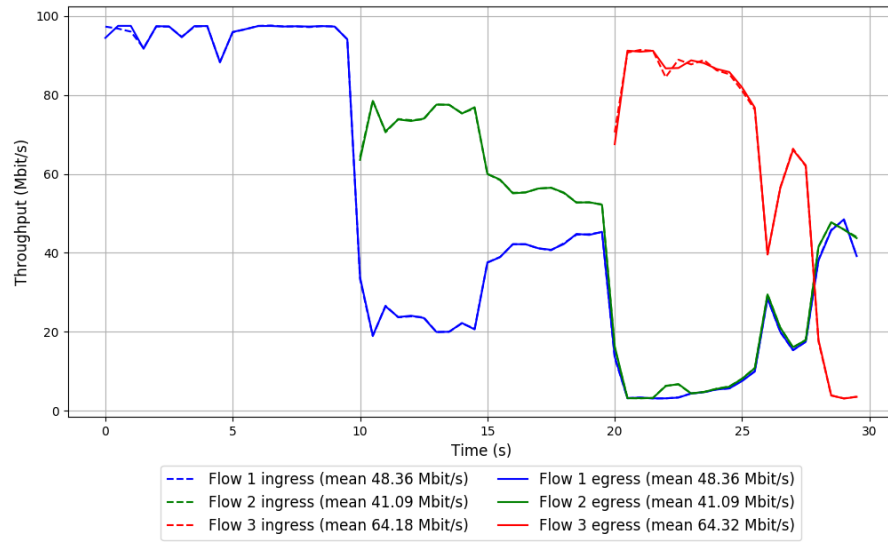


Run 5: Statistics of TCP Vegas

Start at: 2018-02-02 23:46:07
End at: 2018-02-02 23:46:37
Local clock offset: 0.22 ms
Remote clock offset: -0.126 ms

Below is generated by plot.py at 2018-02-03 05:09:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: 16.076 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 48.36 Mbit/s
95th percentile per-packet one-way delay: 13.672 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 41.09 Mbit/s
95th percentile per-packet one-way delay: 6.406 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 16.503 ms
Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-03 00:06:26

End at: 2018-02-03 00:06:56

Local clock offset: 0.216 ms

Remote clock offset: 1.093 ms

Below is generated by plot.py at 2018-02-03 05:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.28 Mbit/s

95th percentile per-packet one-way delay: 6.331 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 12.67 Mbit/s

95th percentile per-packet one-way delay: 14.213 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 79.14 Mbit/s

95th percentile per-packet one-way delay: 5.449 ms

Loss rate: 0.03%

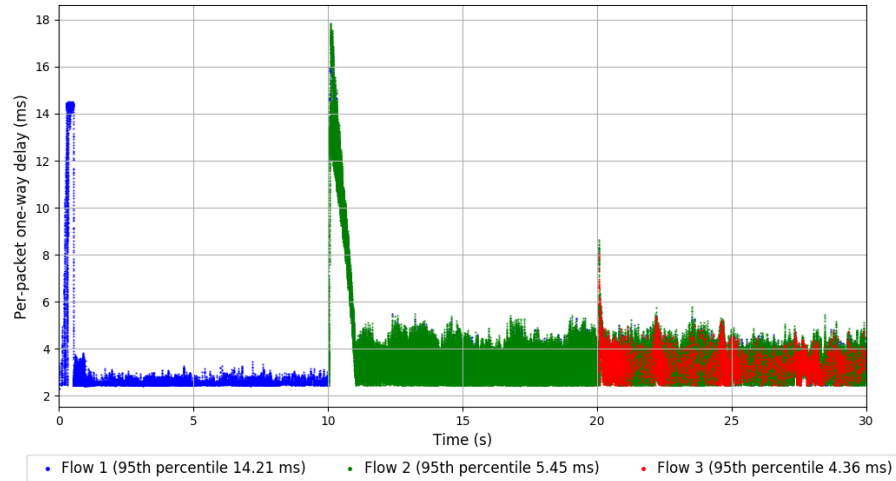
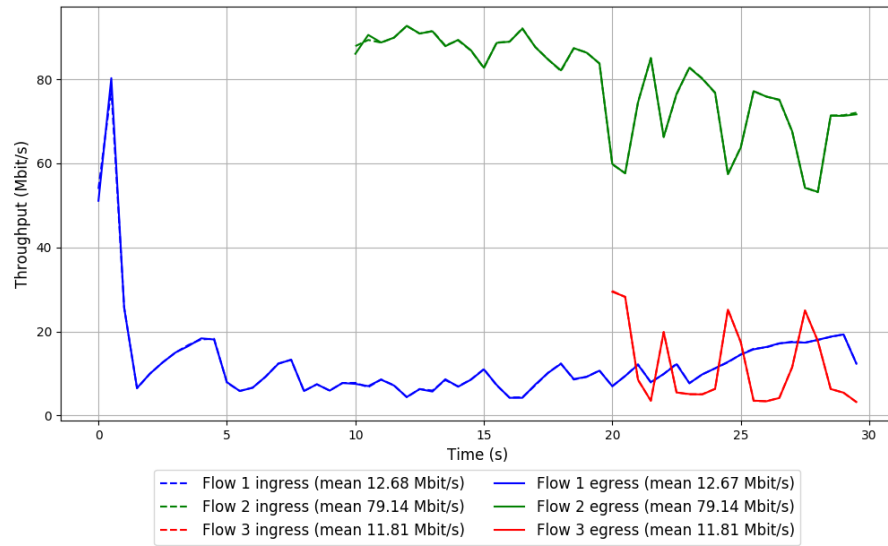
-- Flow 3:

Average throughput: 11.81 Mbit/s

95th percentile per-packet one-way delay: 4.361 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-03 00:26:46

End at: 2018-02-03 00:27:16

Local clock offset: 0.204 ms

Remote clock offset: 1.053 ms

Below is generated by plot.py at 2018-02-03 05:09:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.38 Mbit/s

95th percentile per-packet one-way delay: 7.127 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 11.20 Mbit/s

95th percentile per-packet one-way delay: 10.210 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 6.023 ms

Loss rate: 0.02%

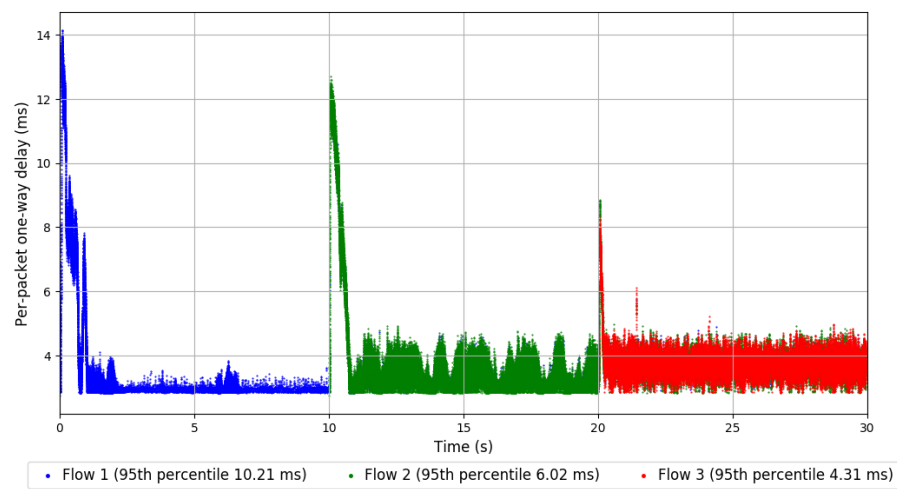
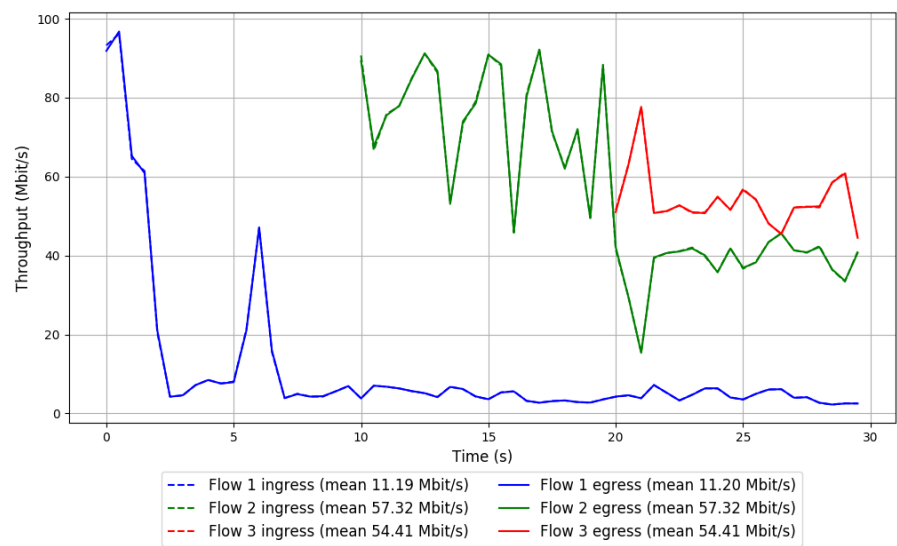
-- Flow 3:

Average throughput: 54.41 Mbit/s

95th percentile per-packet one-way delay: 4.309 ms

Loss rate: 0.05%

Run 7: Report of TCP Vegas — Data Link

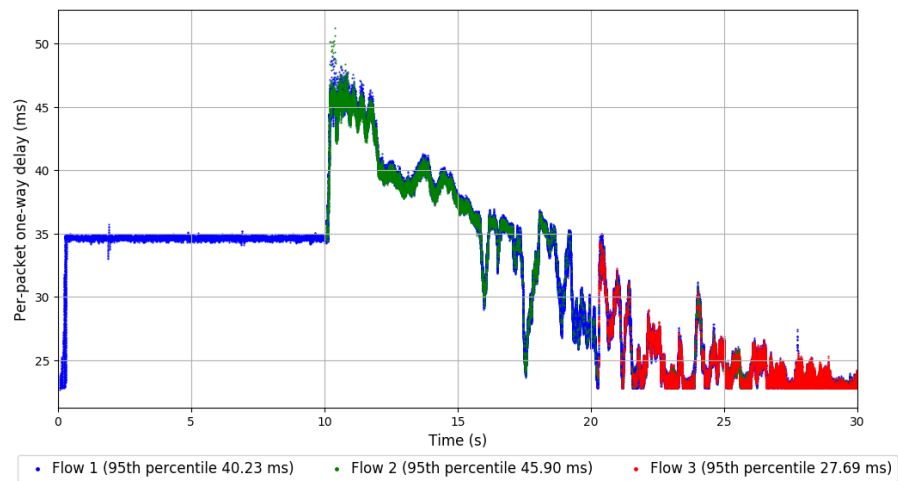
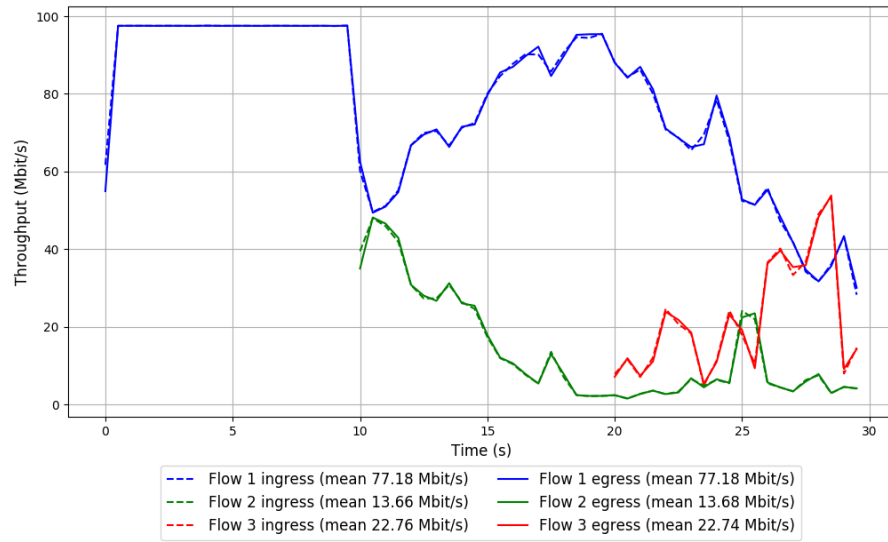


Run 8: Statistics of TCP Vegas

Start at: 2018-02-03 00:47:13
End at: 2018-02-03 00:47:43
Local clock offset: 0.208 ms
Remote clock offset: -18.927 ms

Below is generated by plot.py at 2018-02-03 05:09:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 43.922 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 77.18 Mbit/s
95th percentile per-packet one-way delay: 40.226 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.68 Mbit/s
95th percentile per-packet one-way delay: 45.902 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 22.74 Mbit/s
95th percentile per-packet one-way delay: 27.693 ms
Loss rate: 0.13%

Run 8: Report of TCP Vegas — Data Link

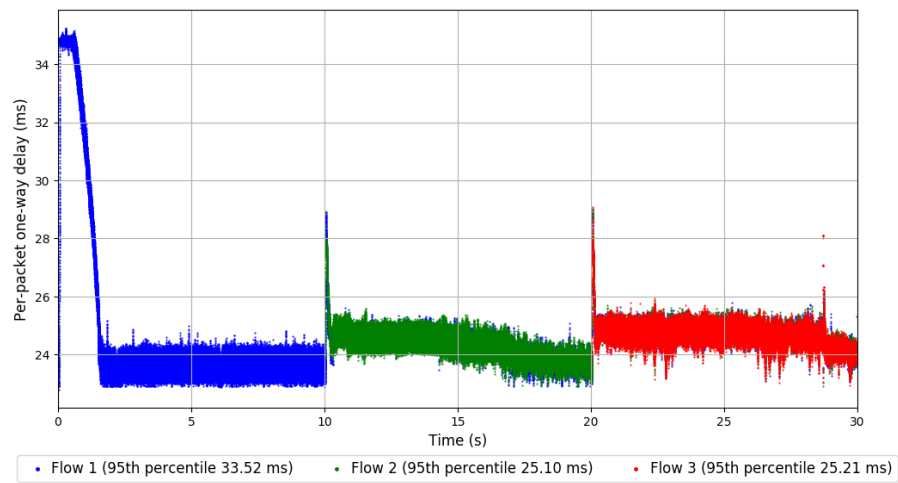
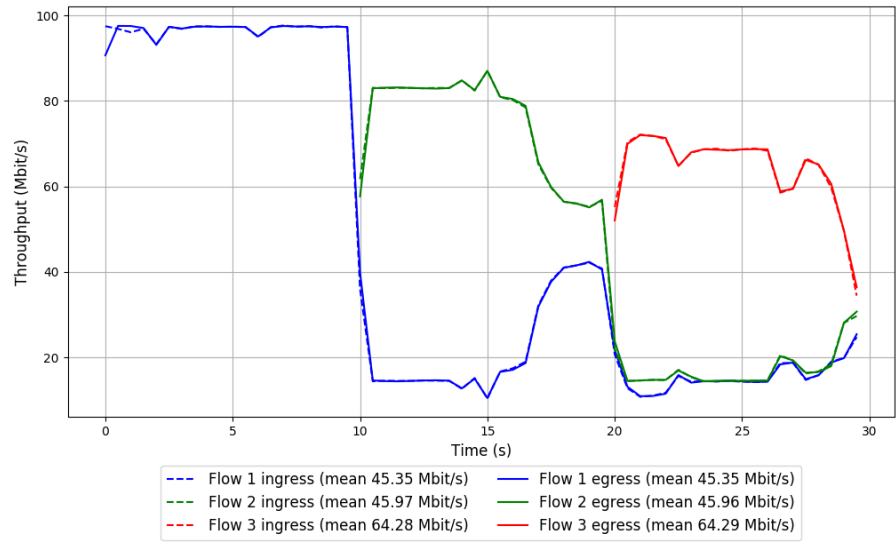


Run 9: Statistics of TCP Vegas

Start at: 2018-02-03 01:07:36
End at: 2018-02-03 01:08:06
Local clock offset: 0.184 ms
Remote clock offset: -19.42 ms

Below is generated by plot.py at 2018-02-03 05:10:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.29 Mbit/s
95th percentile per-packet one-way delay: 26.509 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.35 Mbit/s
95th percentile per-packet one-way delay: 33.525 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 45.96 Mbit/s
95th percentile per-packet one-way delay: 25.099 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 64.29 Mbit/s
95th percentile per-packet one-way delay: 25.206 ms
Loss rate: 0.03%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-03 01:28:04

End at: 2018-02-03 01:28:34

Local clock offset: 0.172 ms

Remote clock offset: -19.5 ms

Below is generated by plot.py at 2018-02-03 05:10:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 24.296 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 21.54 Mbit/s

95th percentile per-packet one-way delay: 24.547 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 57.74 Mbit/s

95th percentile per-packet one-way delay: 24.233 ms

Loss rate: 0.02%

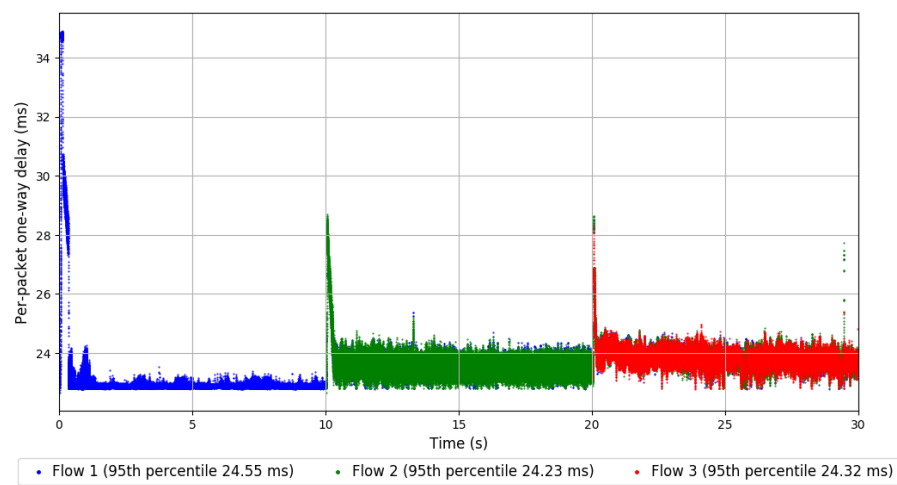
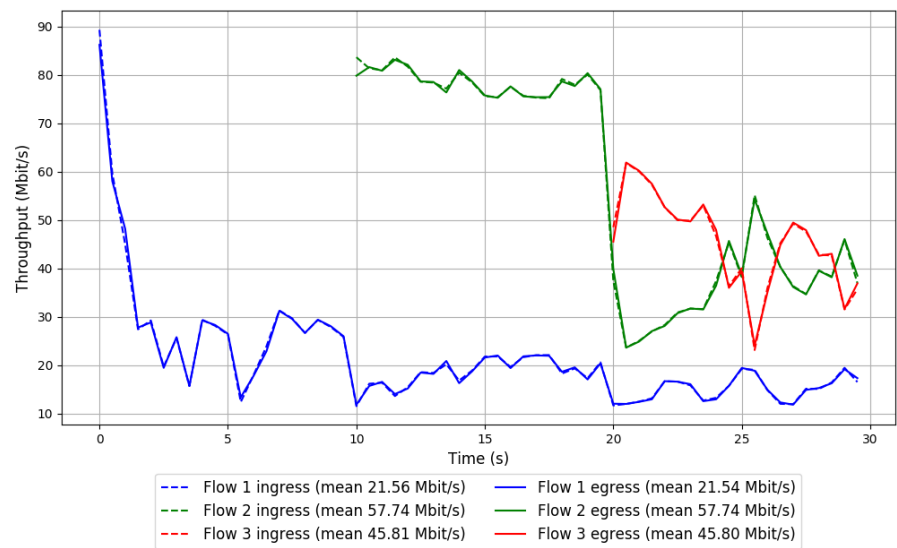
-- Flow 3:

Average throughput: 45.80 Mbit/s

95th percentile per-packet one-way delay: 24.321 ms

Loss rate: 0.05%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-02 22:22:28

End at: 2018-02-02 22:22:58

Local clock offset: 0.199 ms

Remote clock offset: 0.325 ms

Below is generated by plot.py at 2018-02-03 05:10:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 36.021 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 34.461 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 36.535 ms

Loss rate: 0.16%

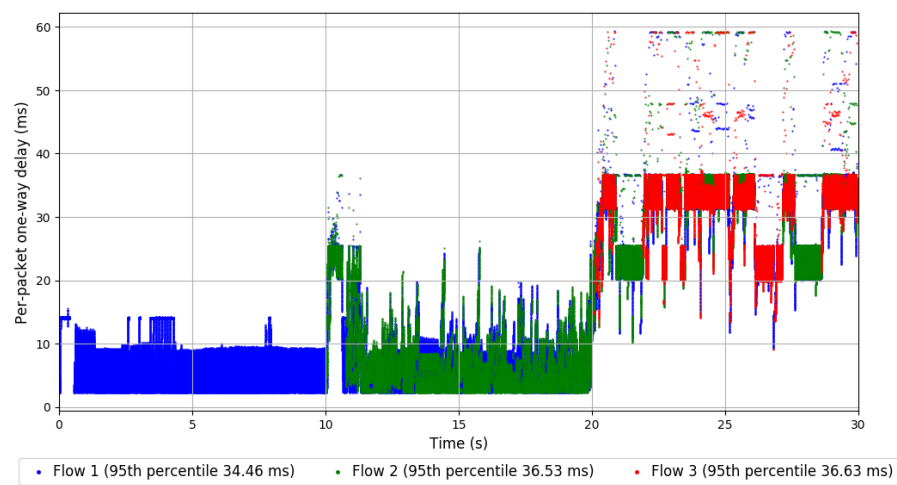
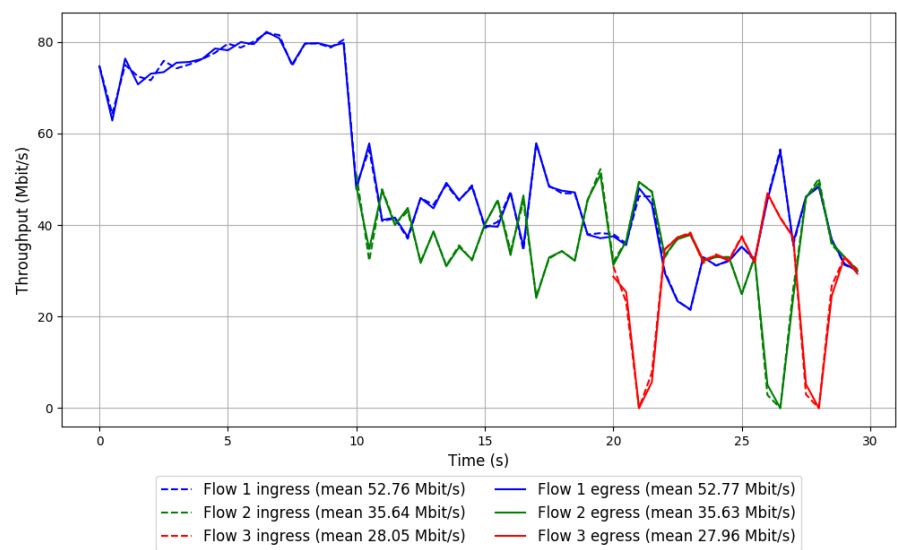
-- Flow 3:

Average throughput: 27.96 Mbit/s

95th percentile per-packet one-way delay: 36.626 ms

Loss rate: 0.56%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-02 22:42:45

End at: 2018-02-02 22:43:15

Local clock offset: 0.265 ms

Remote clock offset: 0.208 ms

Below is generated by plot.py at 2018-02-03 05:10:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 34.717 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 33.028 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 35.496 ms

Loss rate: 0.20%

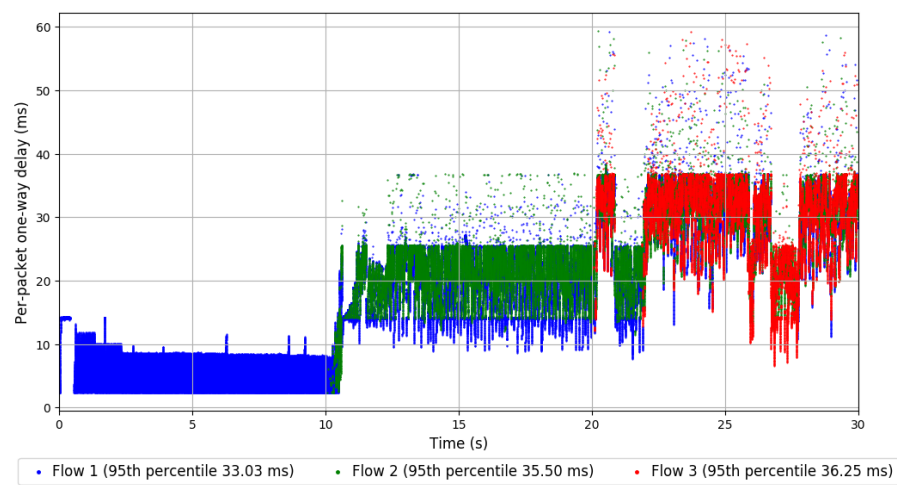
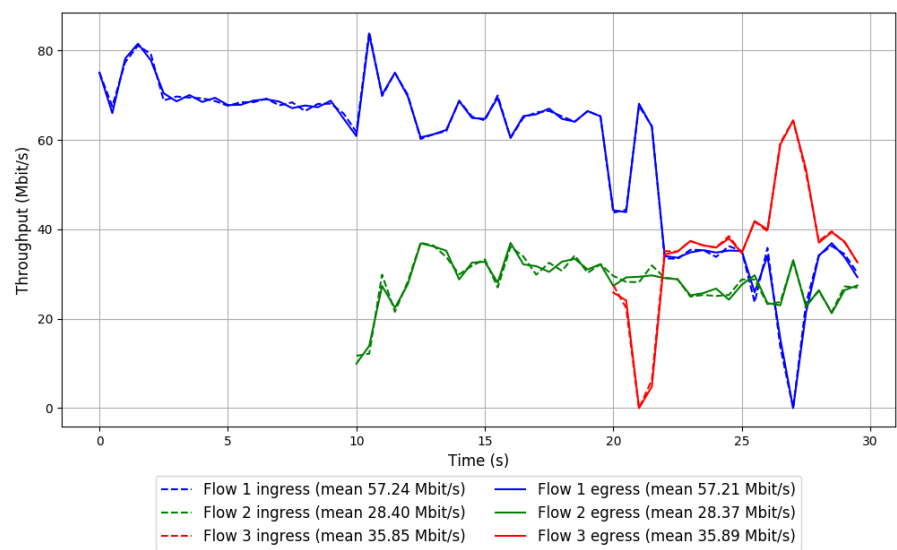
-- Flow 3:

Average throughput: 35.89 Mbit/s

95th percentile per-packet one-way delay: 36.250 ms

Loss rate: 0.31%

Run 2: Report of Verus — Data Link

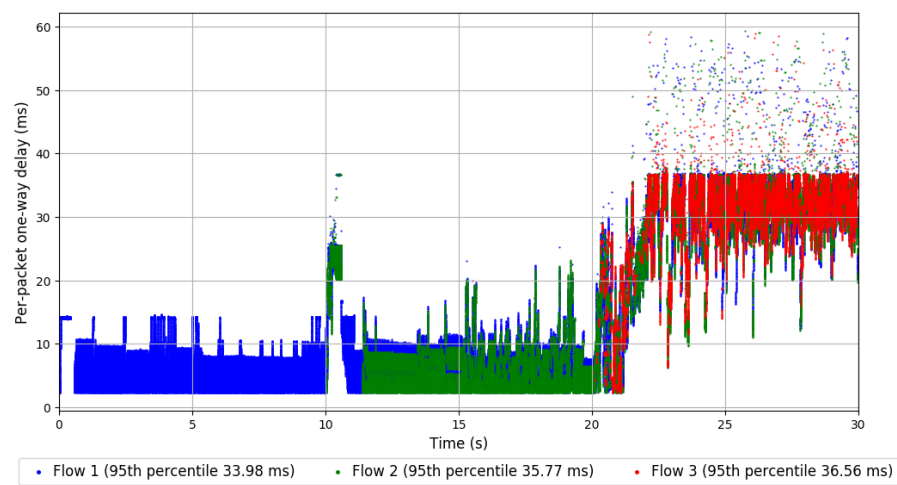
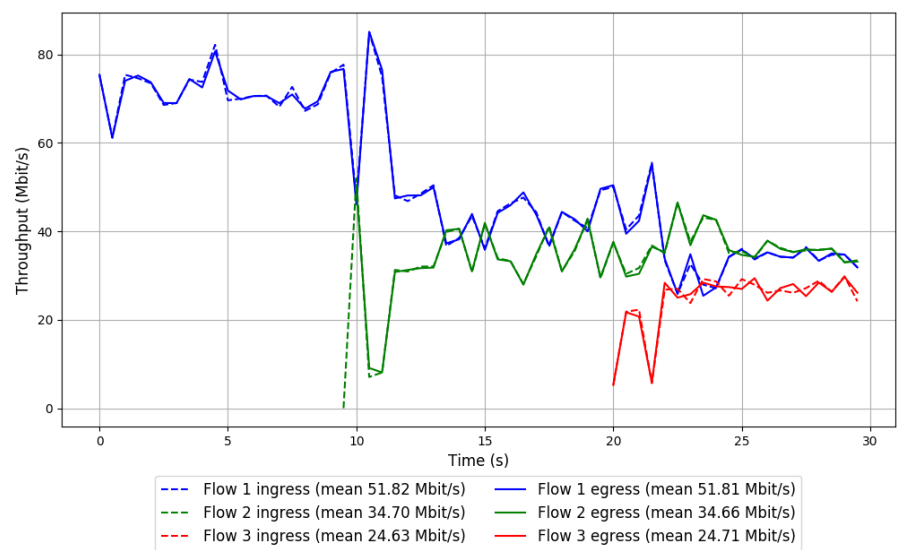


Run 3: Statistics of Verus

Start at: 2018-02-02 23:03:03
End at: 2018-02-02 23:03:33
Local clock offset: 0.293 ms
Remote clock offset: 0.281 ms

Below is generated by plot.py at 2018-02-03 05:10:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 35.259 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 51.81 Mbit/s
95th percentile per-packet one-way delay: 33.985 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 34.66 Mbit/s
95th percentile per-packet one-way delay: 35.775 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 36.565 ms
Loss rate: 0.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-02 23:23:26

End at: 2018-02-02 23:23:56

Local clock offset: 0.282 ms

Remote clock offset: 0.632 ms

Below is generated by plot.py at 2018-02-03 05:10:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.33 Mbit/s

95th percentile per-packet one-way delay: 36.624 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 55.09 Mbit/s

95th percentile per-packet one-way delay: 35.029 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 35.08 Mbit/s

95th percentile per-packet one-way delay: 36.684 ms

Loss rate: 0.16%

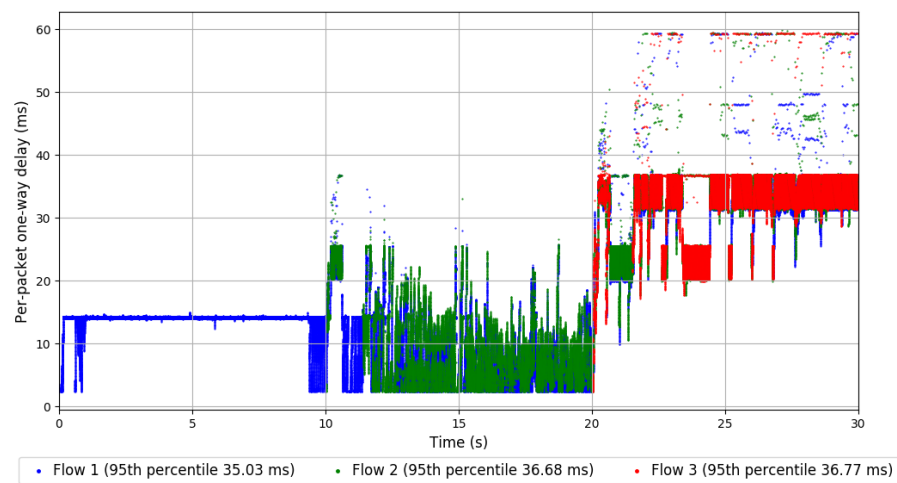
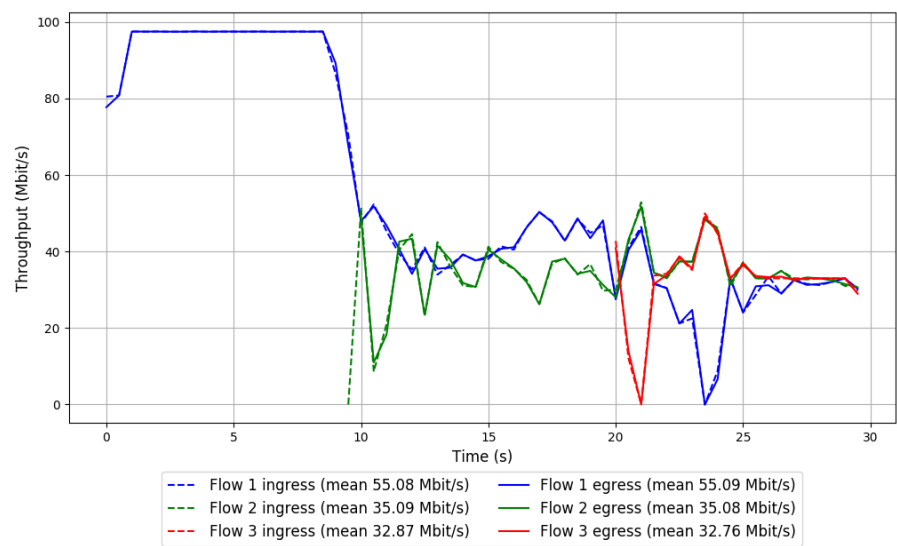
-- Flow 3:

Average throughput: 32.76 Mbit/s

95th percentile per-packet one-way delay: 36.767 ms

Loss rate: 0.44%

Run 4: Report of Verus — Data Link

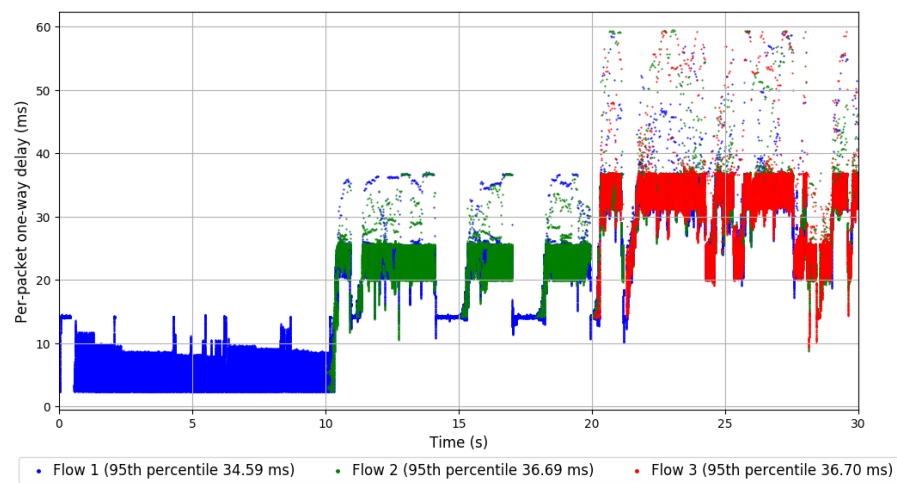
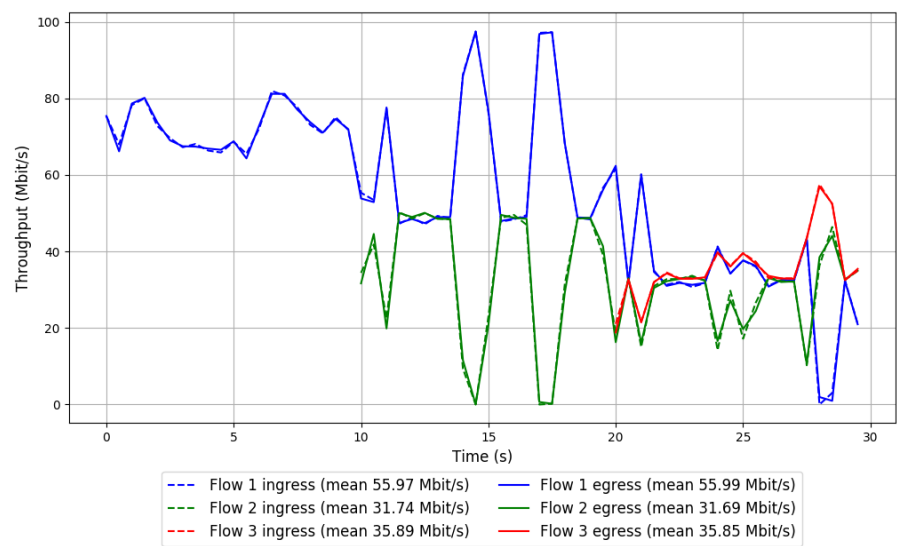


Run 5: Statistics of Verus

Start at: 2018-02-02 23:43:53
End at: 2018-02-02 23:44:23
Local clock offset: 0.266 ms
Remote clock offset: 0.894 ms

Below is generated by plot.py at 2018-02-03 05:10:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.92 Mbit/s
95th percentile per-packet one-way delay: 36.240 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 34.590 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 36.690 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 35.85 Mbit/s
95th percentile per-packet one-way delay: 36.704 ms
Loss rate: 0.32%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-03 00:04:12

End at: 2018-02-03 00:04:42

Local clock offset: 0.236 ms

Remote clock offset: 1.143 ms

Below is generated by plot.py at 2018-02-03 05:11:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.79 Mbit/s

95th percentile per-packet one-way delay: 36.009 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 55.06 Mbit/s

95th percentile per-packet one-way delay: 34.939 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 35.728 ms

Loss rate: 0.13%

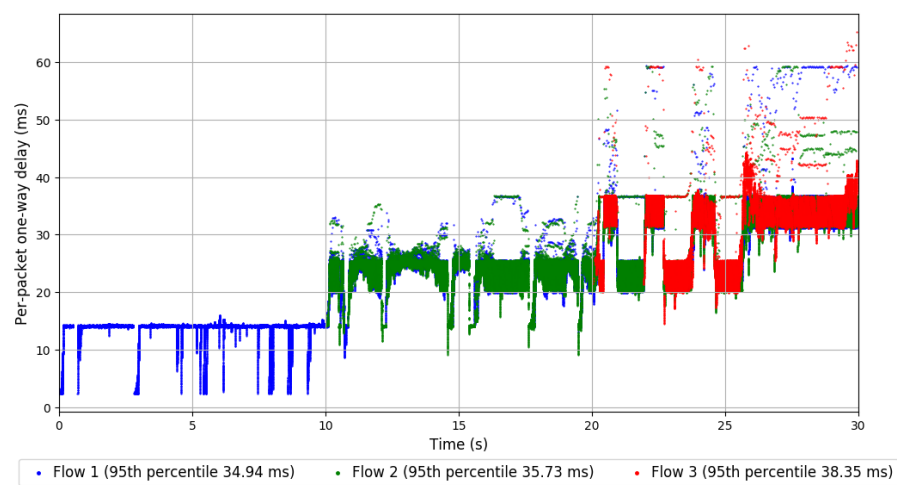
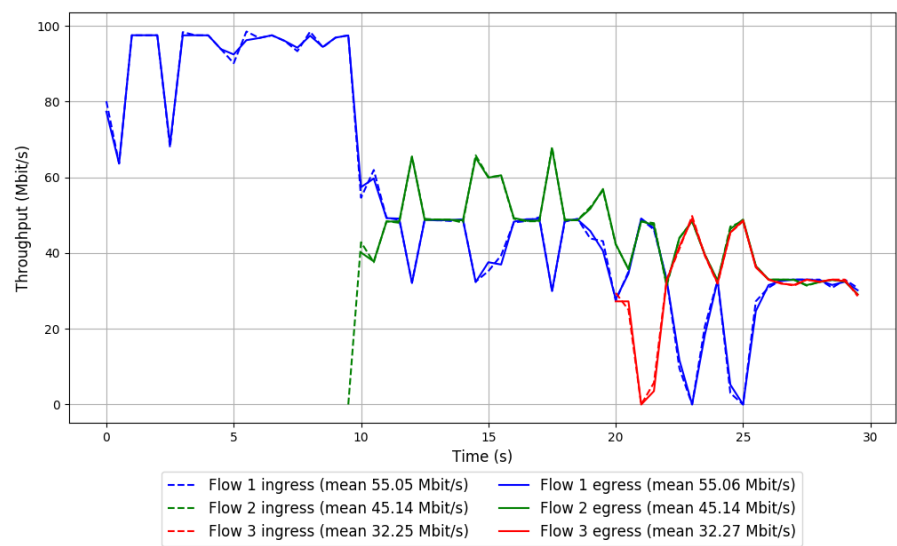
-- Flow 3:

Average throughput: 32.27 Mbit/s

95th percentile per-packet one-way delay: 38.347 ms

Loss rate: 0.35%

Run 6: Report of Verus — Data Link

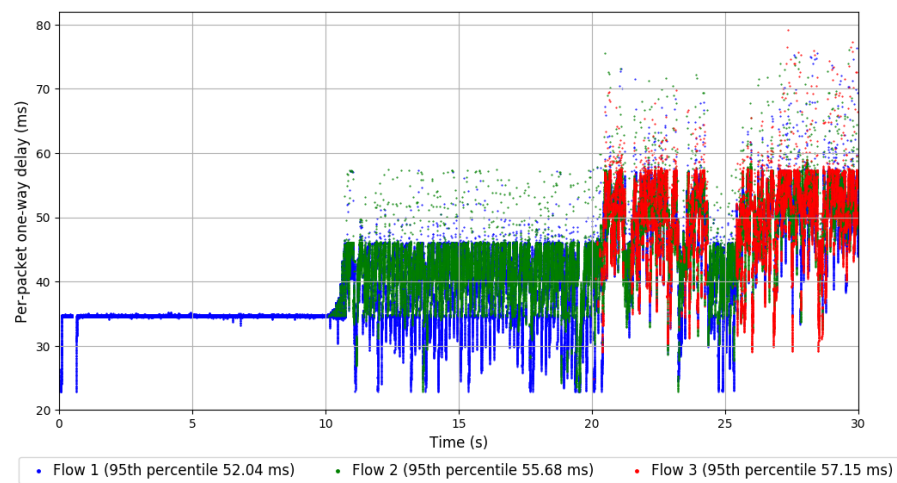
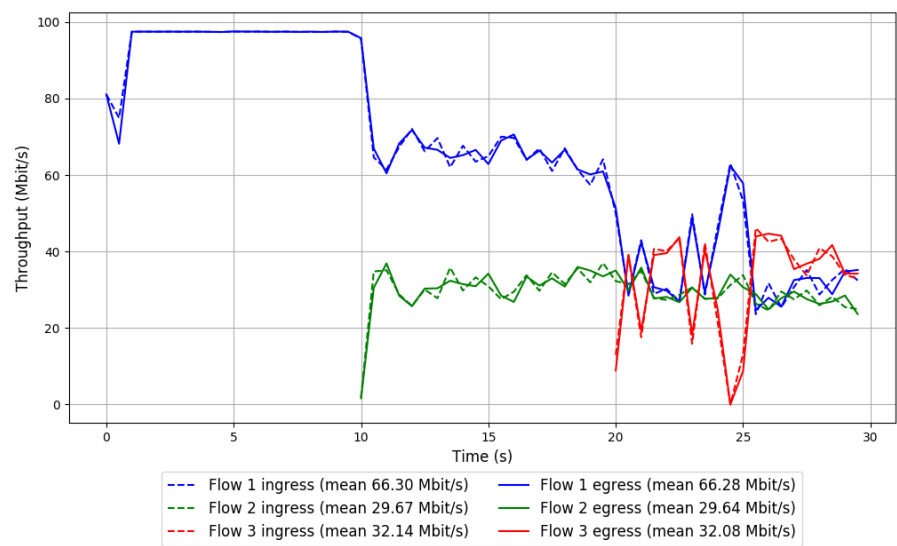


Run 7: Statistics of Verus

Start at: 2018-02-03 00:24:32
End at: 2018-02-03 00:25:02
Local clock offset: 0.118 ms
Remote clock offset: -19.083 ms

Below is generated by plot.py at 2018-02-03 05:11:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 54.855 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 52.036 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 29.64 Mbit/s
95th percentile per-packet one-way delay: 55.678 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 32.08 Mbit/s
95th percentile per-packet one-way delay: 57.151 ms
Loss rate: 0.22%

Run 7: Report of Verus — Data Link

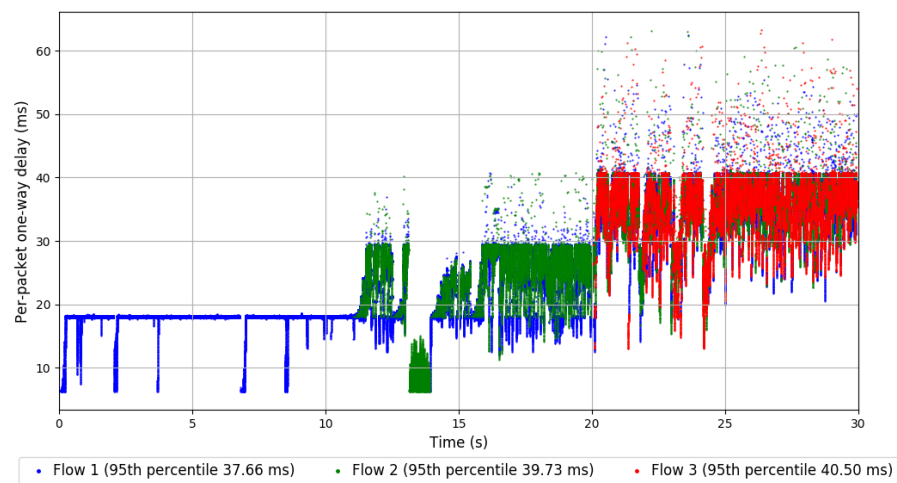
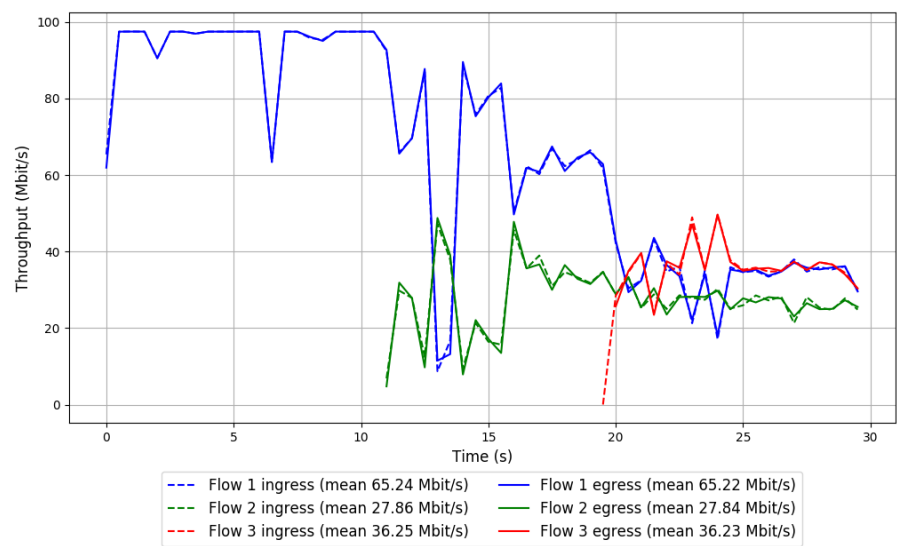


Run 8: Statistics of Verus

Start at: 2018-02-03 00:44:54
End at: 2018-02-03 00:45:24
Local clock offset: 0.143 ms
Remote clock offset: -2.433 ms

Below is generated by plot.py at 2018-02-03 05:11:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 39.119 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 65.22 Mbit/s
95th percentile per-packet one-way delay: 37.662 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 27.84 Mbit/s
95th percentile per-packet one-way delay: 39.729 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 36.23 Mbit/s
95th percentile per-packet one-way delay: 40.502 ms
Loss rate: 0.36%

Run 8: Report of Verus — Data Link

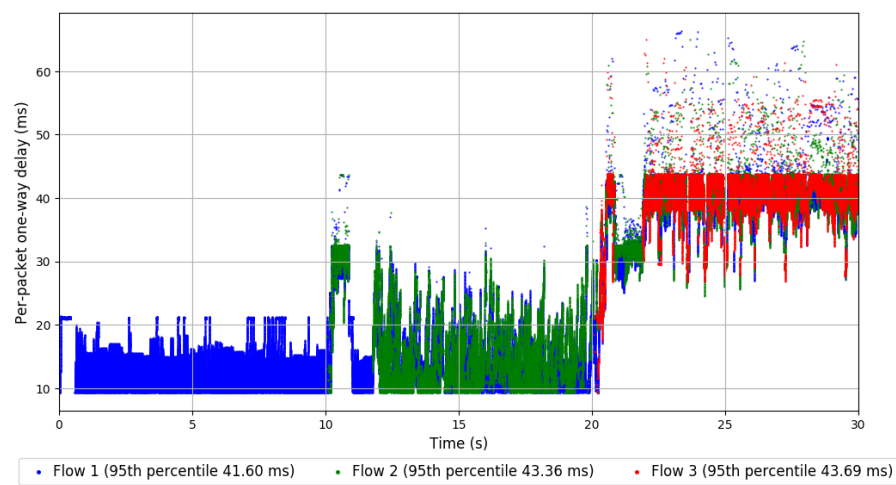
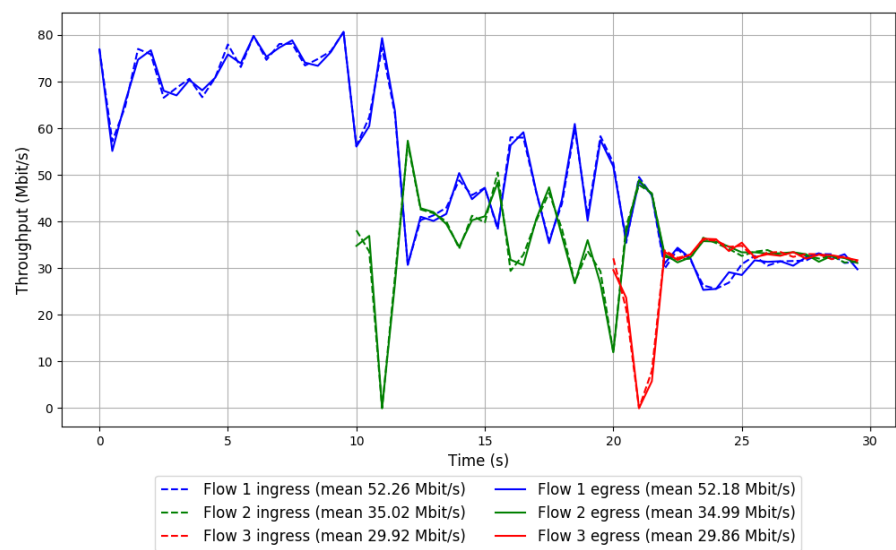


Run 9: Statistics of Verus

Start at: 2018-02-03 01:05:23
End at: 2018-02-03 01:05:53
Local clock offset: 0.19 ms
Remote clock offset: -5.821 ms

Below is generated by plot.py at 2018-02-03 05:11:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.33 Mbit/s
95th percentile per-packet one-way delay: 43.071 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 52.18 Mbit/s
95th percentile per-packet one-way delay: 41.599 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 34.99 Mbit/s
95th percentile per-packet one-way delay: 43.358 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 43.687 ms
Loss rate: 0.47%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-03 01:25:50

End at: 2018-02-03 01:26:20

Local clock offset: 0.144 ms

Remote clock offset: 0.917 ms

Below is generated by plot.py at 2018-02-03 05:11:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.96 Mbit/s

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

Loss rate: 0.14%

-- Flow 1:

Average throughput: 53.03 Mbit/s

95th percentile per-packet one-way delay: 34.398 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 35.088 ms

Loss rate: 0.14%

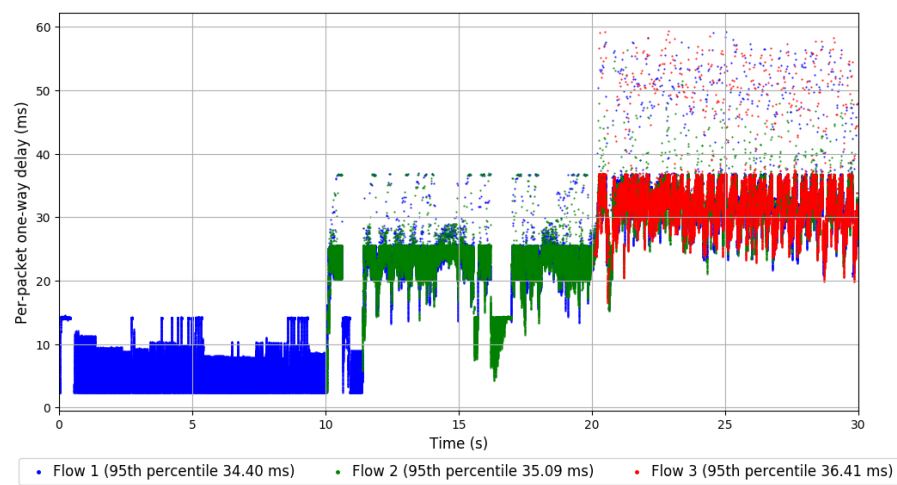
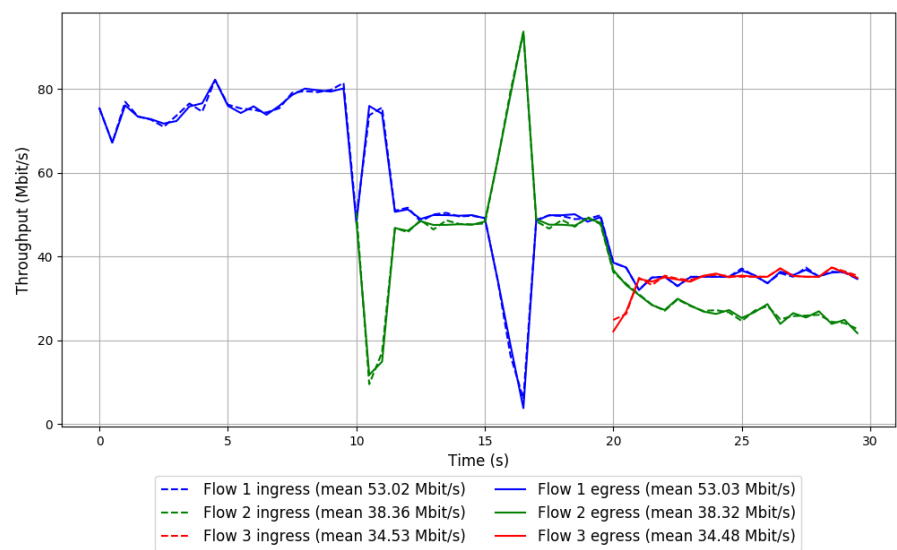
-- Flow 3:

Average throughput: 34.48 Mbit/s

95th percentile per-packet one-way delay: 36.415 ms

Loss rate: 0.44%

Run 10: Report of Verus — Data Link

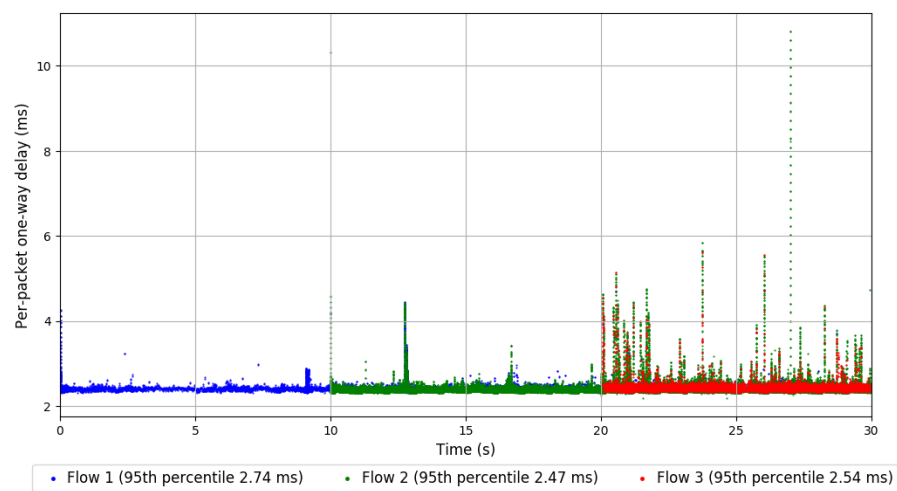
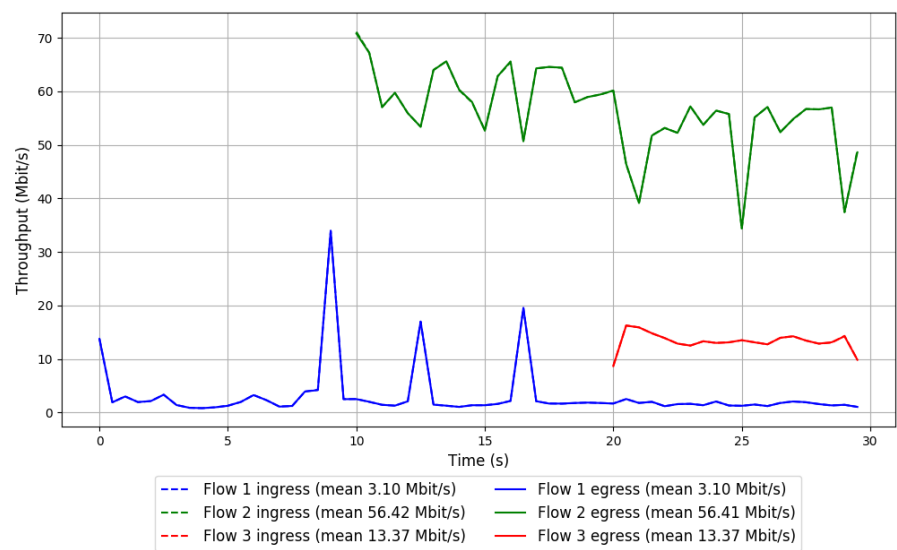


```
Run 1: Statistics of Copa

Start at: 2018-02-02 22:21:20
End at: 2018-02-02 22:21:50
Local clock offset: 0.226 ms
Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2018-02-03 05:11:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.11 Mbit/s
95th percentile per-packet one-way delay: 2.499 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 2.744 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.41 Mbit/s
95th percentile per-packet one-way delay: 2.468 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 13.37 Mbit/s
95th percentile per-packet one-way delay: 2.541 ms
Loss rate: 0.03%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-02 22:41:38

End at: 2018-02-02 22:42:08

Local clock offset: 0.26 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-02-03 05:11:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 38.74 Mbit/s

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

Loss rate: 0.04%

-- Flow 1:

Average throughput: 17.07 Mbit/s

95th percentile per-packet one-way delay: 2.903 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 10.02 Mbit/s

95th percentile per-packet one-way delay: 2.908 ms

Loss rate: 0.00%

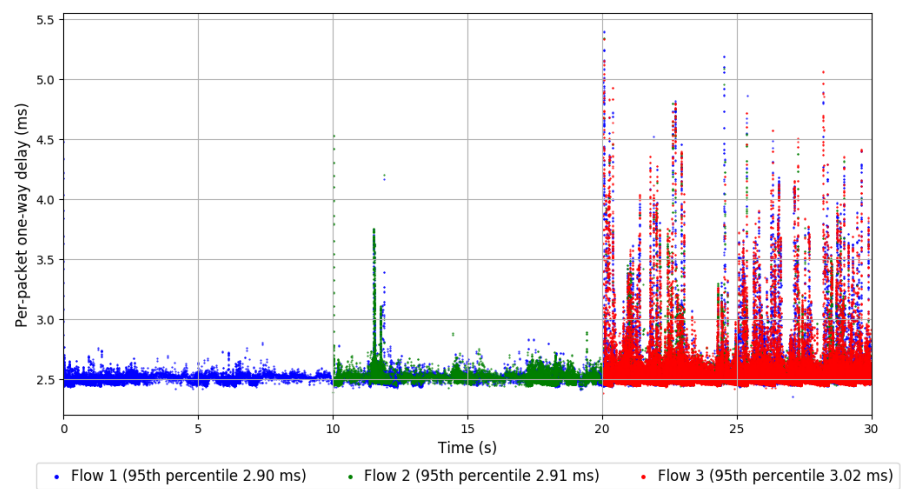
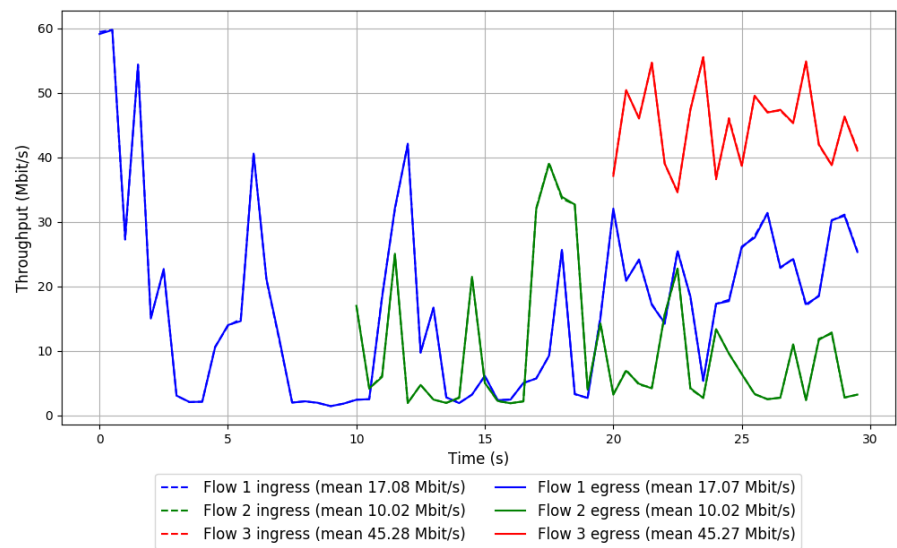
-- Flow 3:

Average throughput: 45.27 Mbit/s

95th percentile per-packet one-way delay: 3.025 ms

Loss rate: 0.05%

Run 2: Report of Copa — Data Link

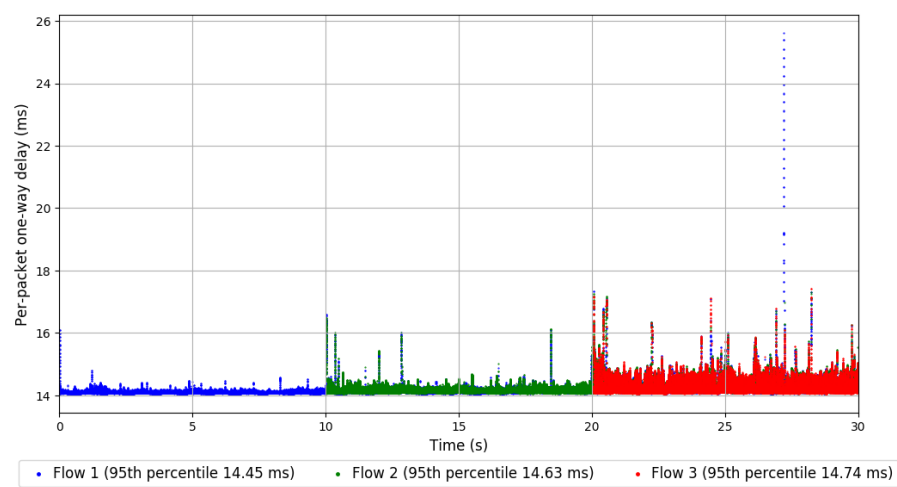
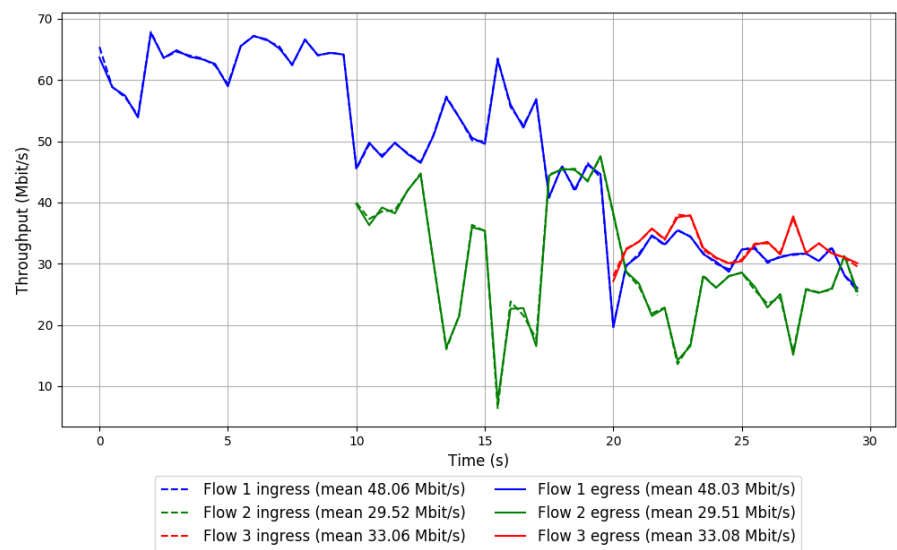


Run 3: Statistics of Copa

Start at: 2018-02-02 23:01:53
End at: 2018-02-02 23:02:23
Local clock offset: 0.325 ms
Remote clock offset: -11.459 ms

Below is generated by plot.py at 2018-02-03 05:13:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.63 Mbit/s
95th percentile per-packet one-way delay: 14.579 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 48.03 Mbit/s
95th percentile per-packet one-way delay: 14.453 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 14.634 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 14.743 ms
Loss rate: 0.05%

Run 3: Report of Copa — Data Link

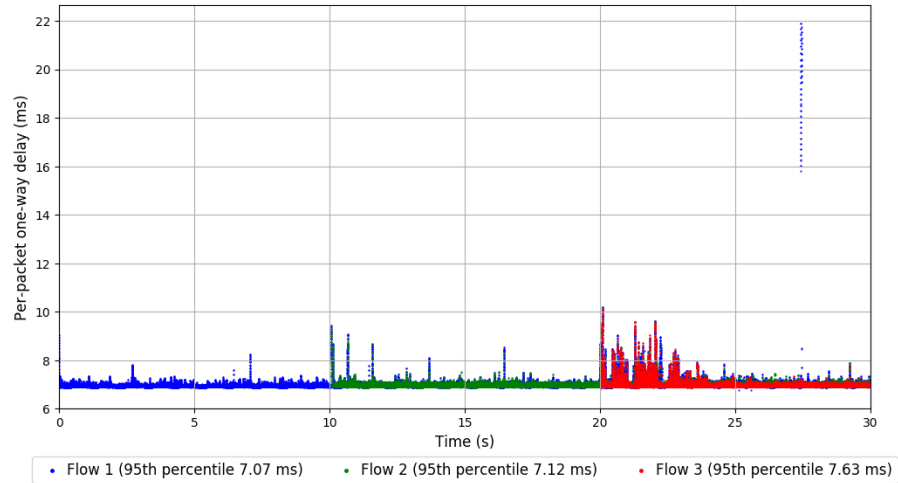
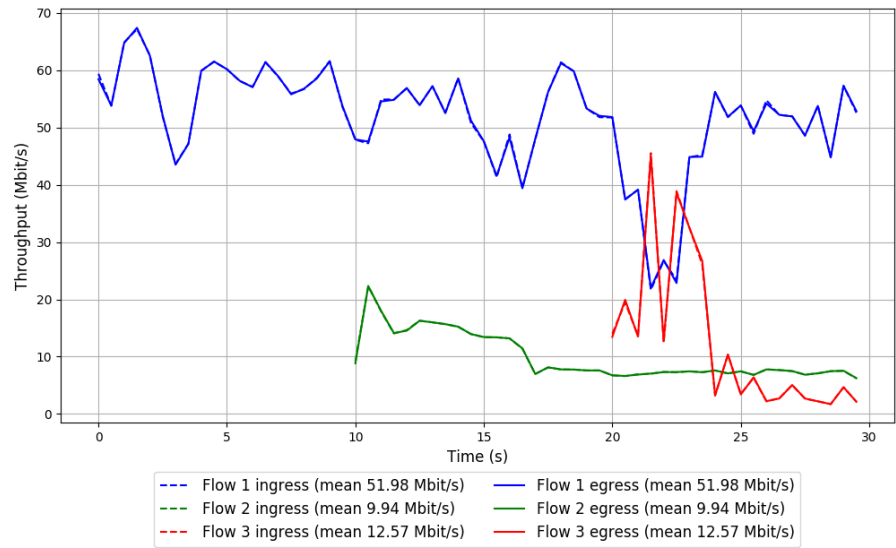


Run 4: Statistics of Copa

Start at: 2018-02-02 23:22:17
End at: 2018-02-02 23:22:47
Local clock offset: 0.26 ms
Remote clock offset: -3.928 ms

Below is generated by plot.py at 2018-02-03 05:13:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 62.75 Mbit/s
95th percentile per-packet one-way delay: 7.099 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 51.98 Mbit/s
95th percentile per-packet one-way delay: 7.074 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 9.94 Mbit/s
95th percentile per-packet one-way delay: 7.124 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 7.630 ms
Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-02 23:42:44

End at: 2018-02-02 23:43:14

Local clock offset: 0.281 ms

Remote clock offset: 0.939 ms

Below is generated by plot.py at 2018-02-03 05:13:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.00 Mbit/s

95th percentile per-packet one-way delay: 2.610 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 34.83 Mbit/s

95th percentile per-packet one-way delay: 2.561 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 44.74 Mbit/s

95th percentile per-packet one-way delay: 2.643 ms

Loss rate: 0.02%

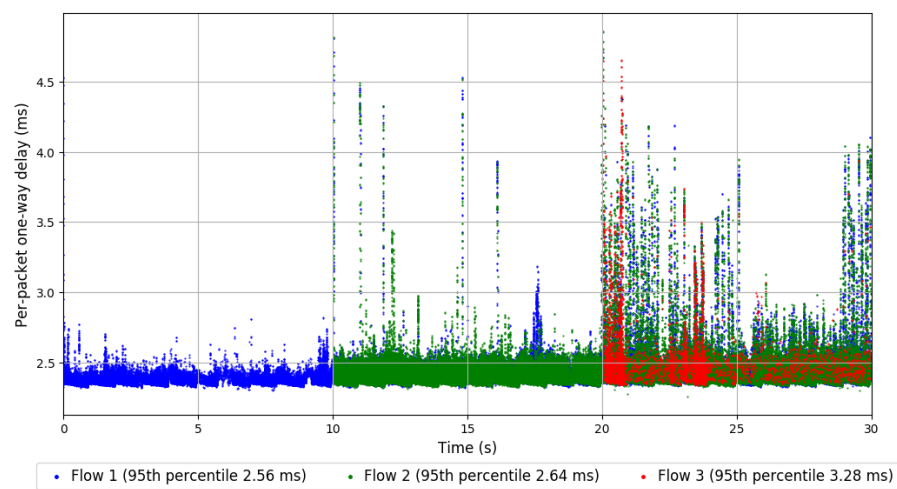
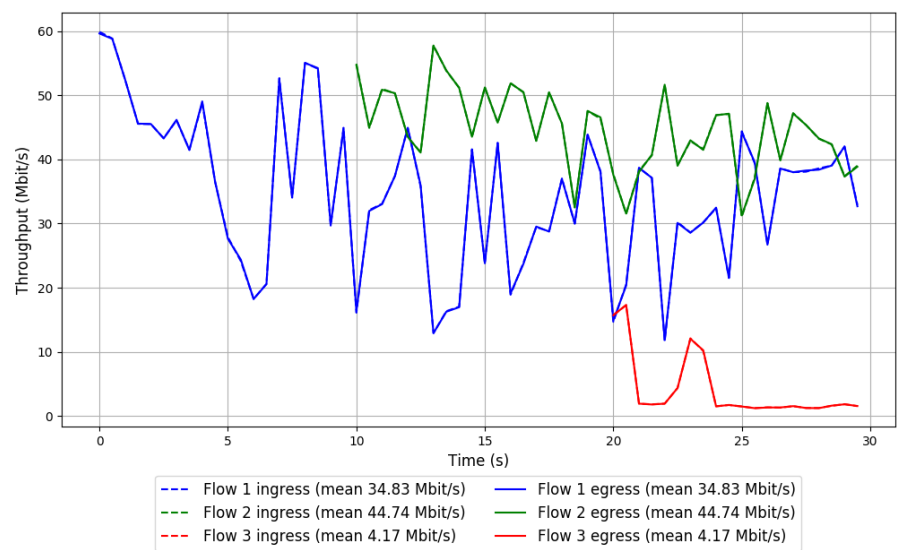
-- Flow 3:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 3.280 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

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

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

Local clock offset: 0.254 ms

Remote clock offset: -4.07 ms

Below is generated by plot.py at 2018-02-03 05:13:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.77 Mbit/s

95th percentile per-packet one-way delay: 7.964 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 10.73 Mbit/s

95th percentile per-packet one-way delay: 7.809 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 7.993 ms

Loss rate: 0.01%

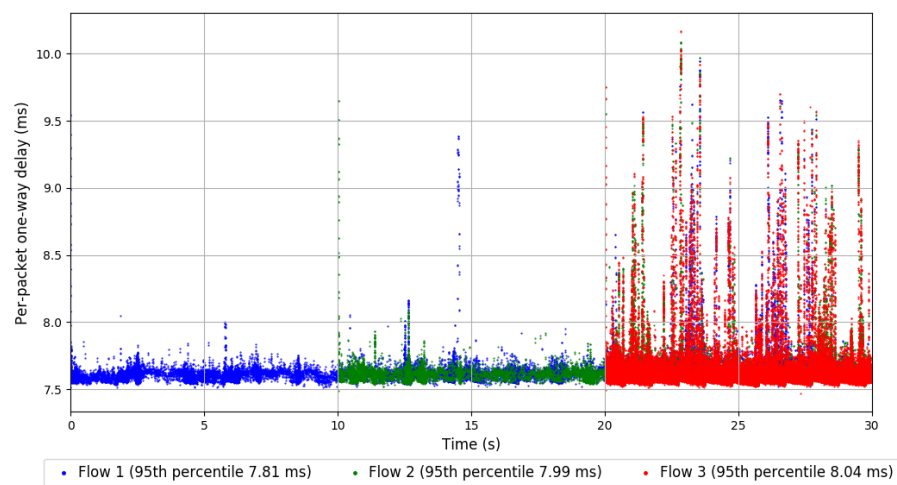
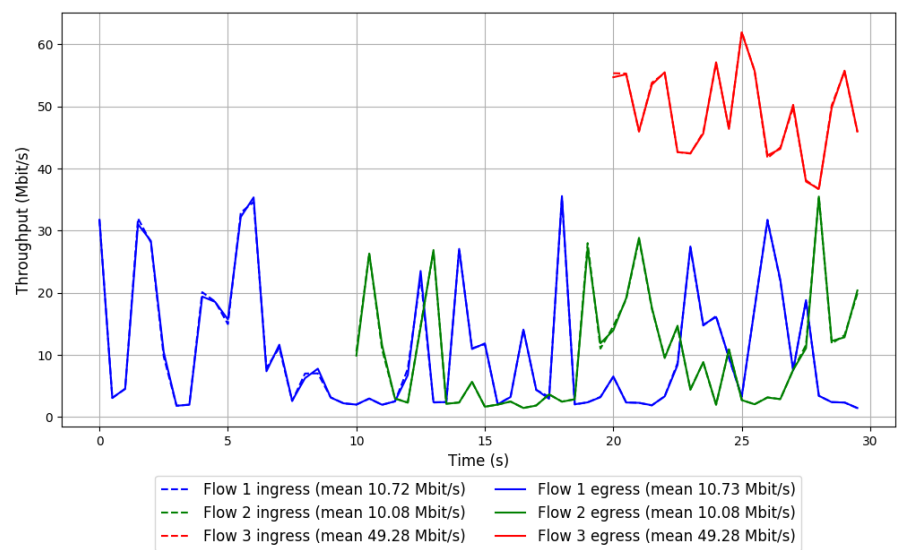
-- Flow 3:

Average throughput: 49.28 Mbit/s

95th percentile per-packet one-way delay: 8.043 ms

Loss rate: 0.06%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-03 00:23:24

End at: 2018-02-03 00:23:54

Local clock offset: 0.194 ms

Remote clock offset: 1.501 ms

Below is generated by plot.py at 2018-02-03 05:13:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.93 Mbit/s

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

Loss rate: 0.03%

-- Flow 1:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 2.531 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.69 Mbit/s

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

Loss rate: 0.02%

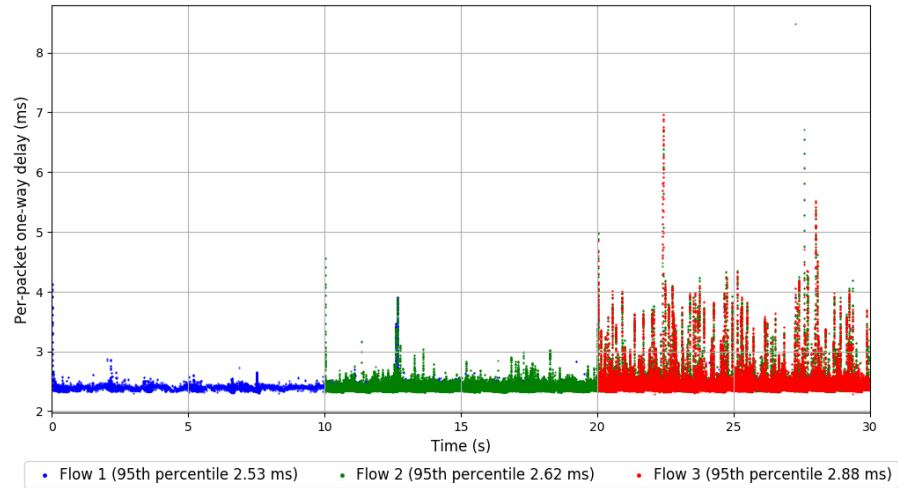
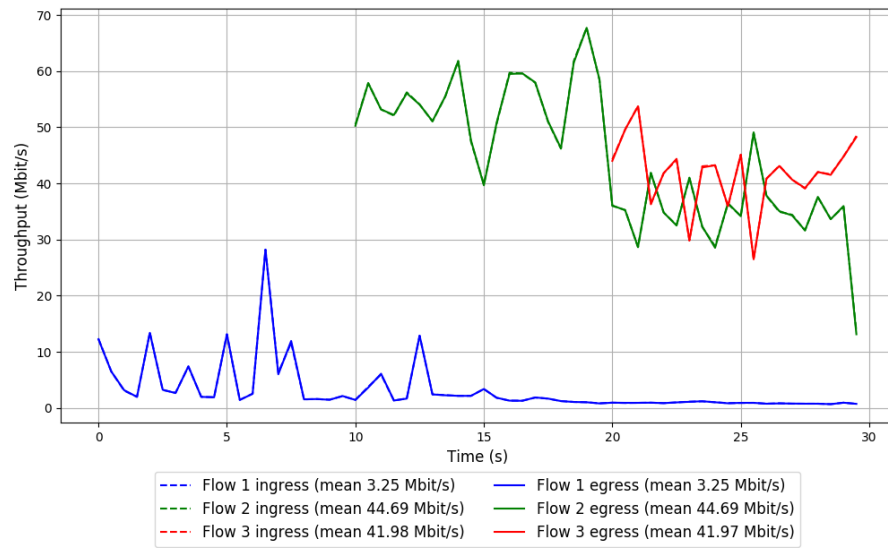
-- Flow 3:

Average throughput: 41.97 Mbit/s

95th percentile per-packet one-way delay: 2.876 ms

Loss rate: 0.05%

Run 7: Report of Copa — Data Link

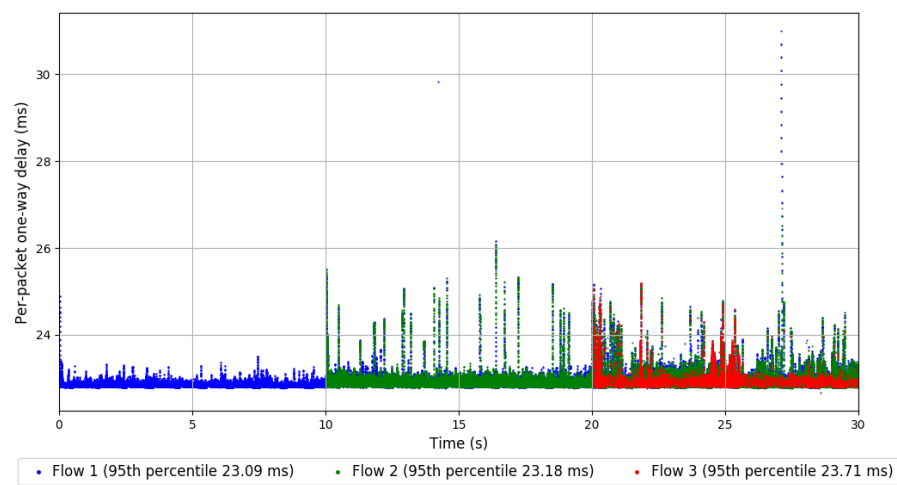
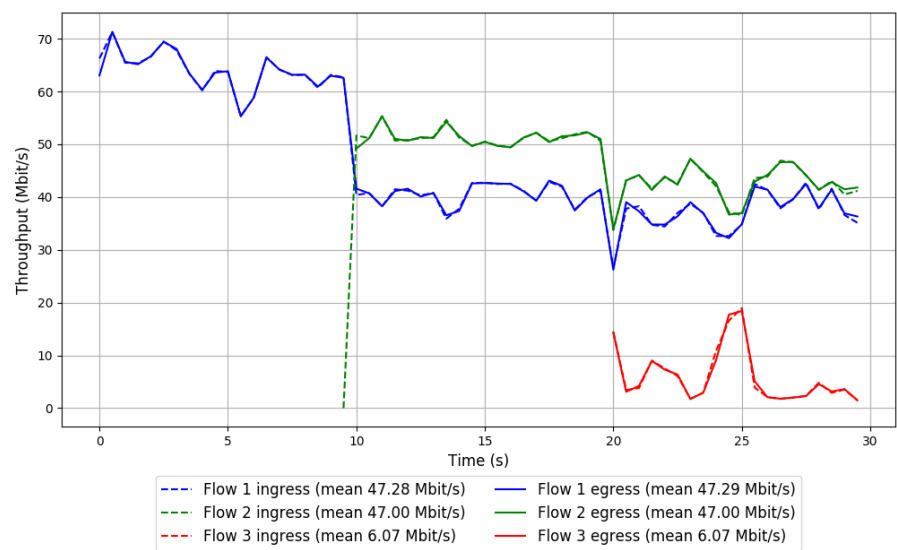


Run 8: Statistics of Copa

Start at: 2018-02-03 00:43:44
End at: 2018-02-03 00:44:14
Local clock offset: 0.198 ms
Remote clock offset: -18.87 ms

Below is generated by plot.py at 2018-02-03 05:13:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.60 Mbit/s
95th percentile per-packet one-way delay: 23.137 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 47.29 Mbit/s
95th percentile per-packet one-way delay: 23.091 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 23.176 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 6.07 Mbit/s
95th percentile per-packet one-way delay: 23.715 ms
Loss rate: 0.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-03 01:04:13

End at: 2018-02-03 01:04:43

Local clock offset: 0.138 ms

Remote clock offset: 1.2 ms

Below is generated by plot.py at 2018-02-03 05:13:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.35 Mbit/s

95th percentile per-packet one-way delay: 2.896 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 28.47 Mbit/s

95th percentile per-packet one-way delay: 2.762 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 43.09 Mbit/s

95th percentile per-packet one-way delay: 2.876 ms

Loss rate: 0.02%

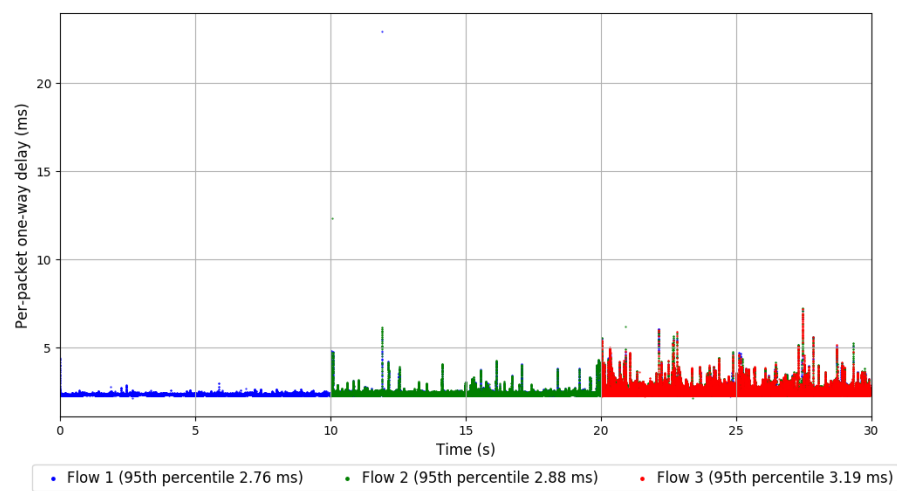
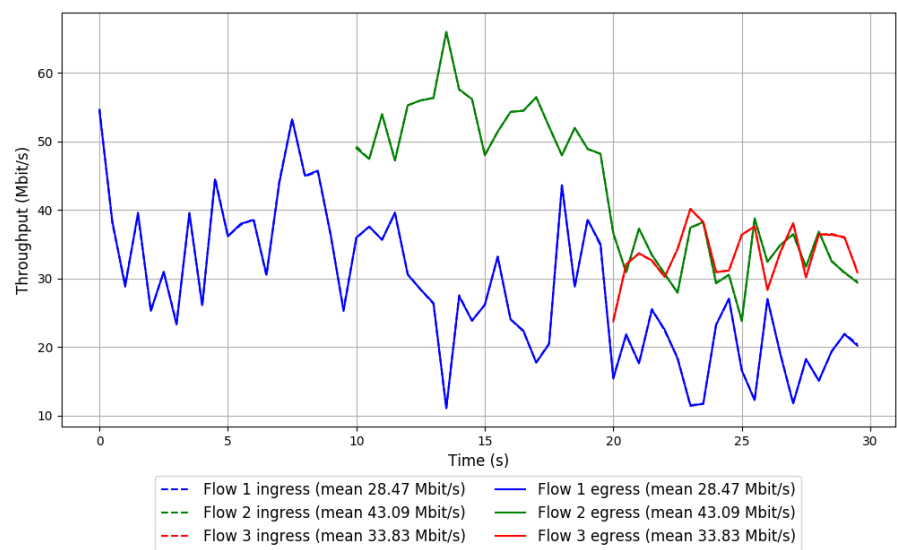
-- Flow 3:

Average throughput: 33.83 Mbit/s

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

Loss rate: 0.05%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-03 01:24:40

End at: 2018-02-03 01:25:10

Local clock offset: 0.138 ms

Remote clock offset: 0.942 ms

Below is generated by plot.py at 2018-02-03 05:13:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.17 Mbit/s

95th percentile per-packet one-way delay: 2.930 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 46.09 Mbit/s

95th percentile per-packet one-way delay: 2.778 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.41 Mbit/s

95th percentile per-packet one-way delay: 2.991 ms

Loss rate: 0.02%

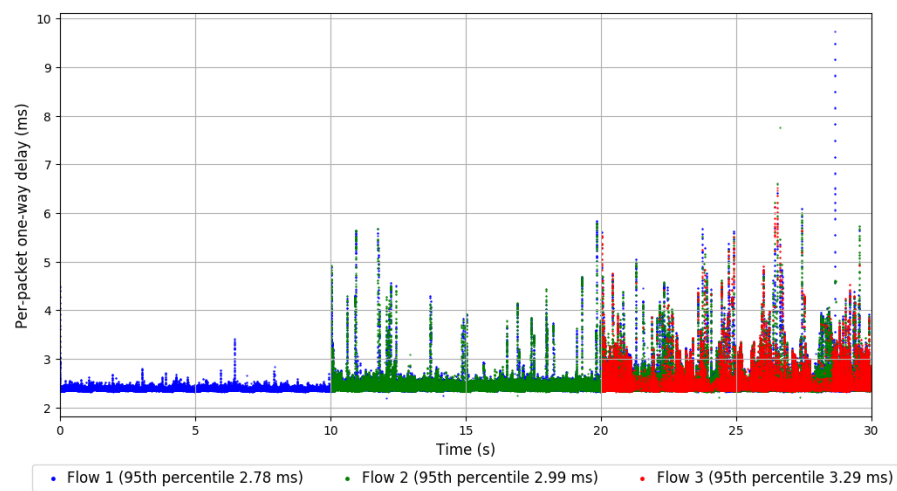
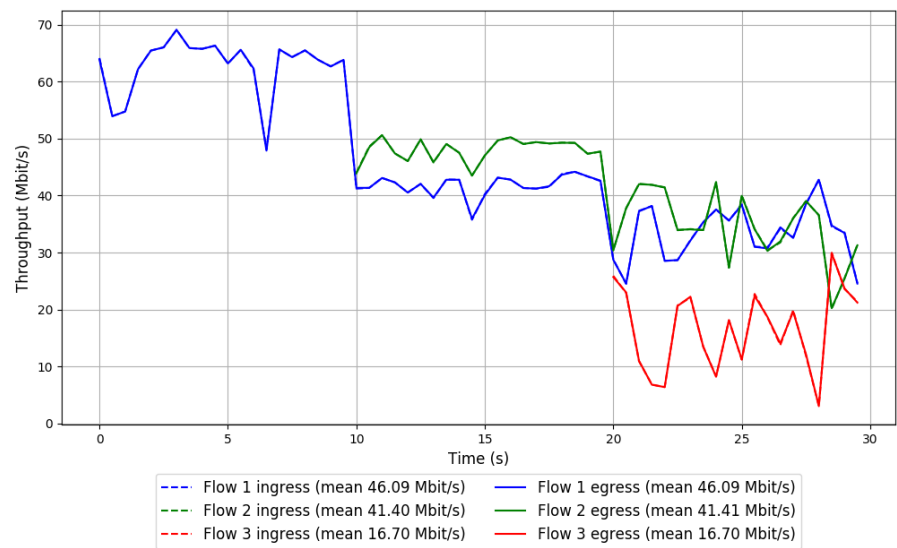
-- Flow 3:

Average throughput: 16.70 Mbit/s

95th percentile per-packet one-way delay: 3.285 ms

Loss rate: 0.06%

Run 10: Report of Copa — Data Link

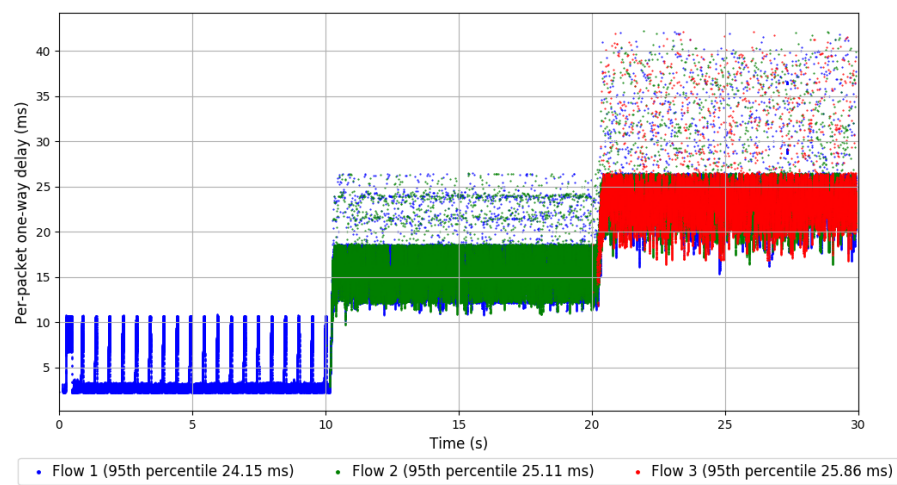
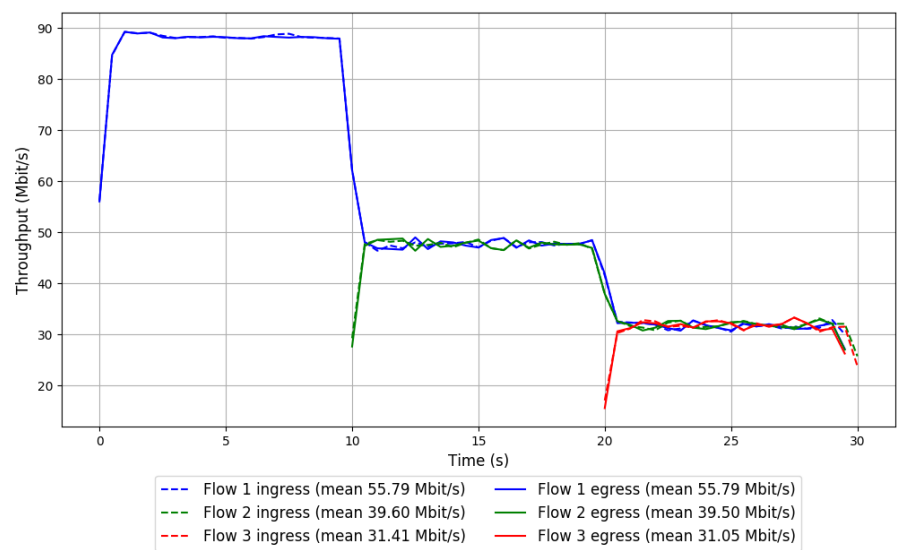


```
Run 1: Statistics of FillP

Start at: 2018-02-02 22:16:54
End at: 2018-02-02 22:17:24
Local clock offset: 0.21 ms
Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2018-02-03 05:14:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.33 Mbit/s
95th percentile per-packet one-way delay: 24.968 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 55.79 Mbit/s
95th percentile per-packet one-way delay: 24.148 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 25.112 ms
Loss rate: 2.01%
-- Flow 3:
Average throughput: 31.05 Mbit/s
95th percentile per-packet one-way delay: 25.861 ms
Loss rate: 4.74%
```


Run 1: Report of FillP — Data Link

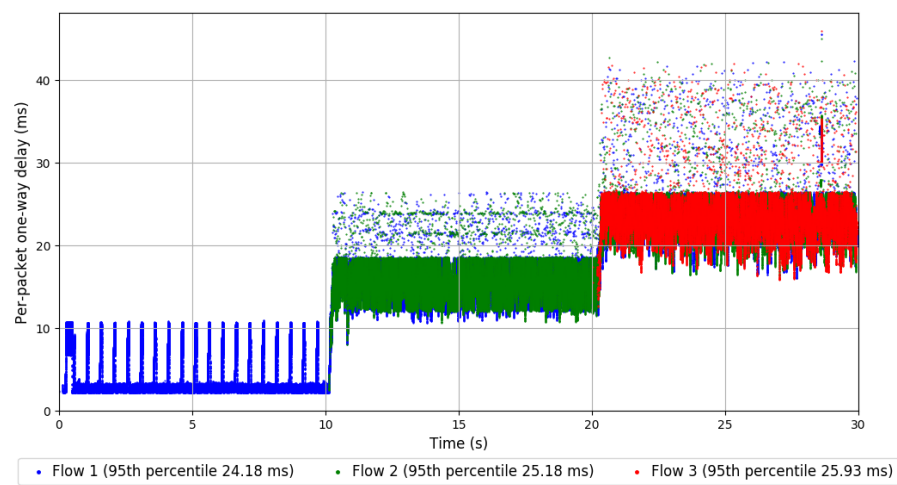
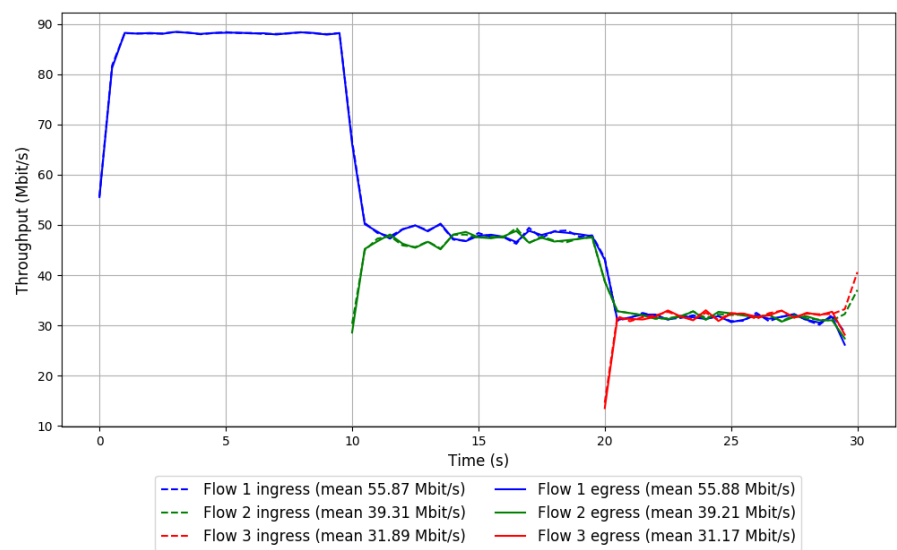


```
Run 2: Statistics of FillP

Start at: 2018-02-02 22:37:11
End at: 2018-02-02 22:37:41
Local clock offset: 0.261 ms
Remote clock offset: 0.263 ms

# Below is generated by plot.py at 2018-02-03 05:15:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 25.015 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 55.88 Mbit/s
95th percentile per-packet one-way delay: 24.176 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 39.21 Mbit/s
95th percentile per-packet one-way delay: 25.176 ms
Loss rate: 2.70%
-- Flow 3:
Average throughput: 31.17 Mbit/s
95th percentile per-packet one-way delay: 25.928 ms
Loss rate: 7.05%
```

Run 2: Report of FillP — Data Link

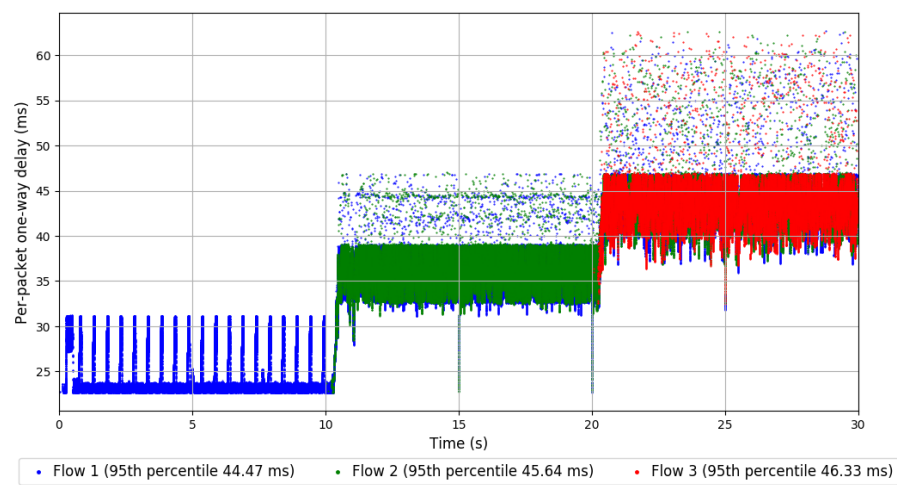
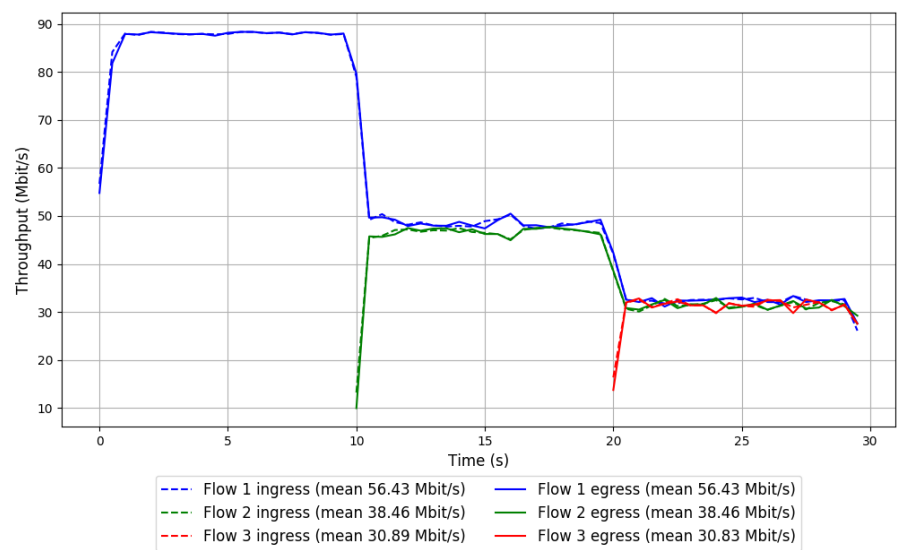


Run 3: Statistics of FillP

Start at: 2018-02-02 22:57:27
End at: 2018-02-02 22:57:57
Local clock offset: 0.282 ms
Remote clock offset: -20.274 ms

Below is generated by plot.py at 2018-02-03 05:15:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 45.399 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 56.43 Mbit/s
95th percentile per-packet one-way delay: 44.468 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.46 Mbit/s
95th percentile per-packet one-way delay: 45.643 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 46.326 ms
Loss rate: 0.39%

Run 3: Report of FillP — Data Link

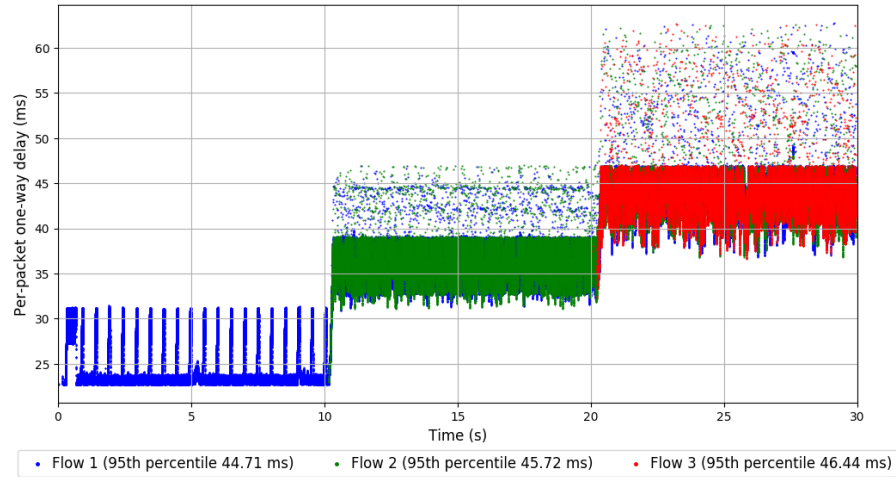
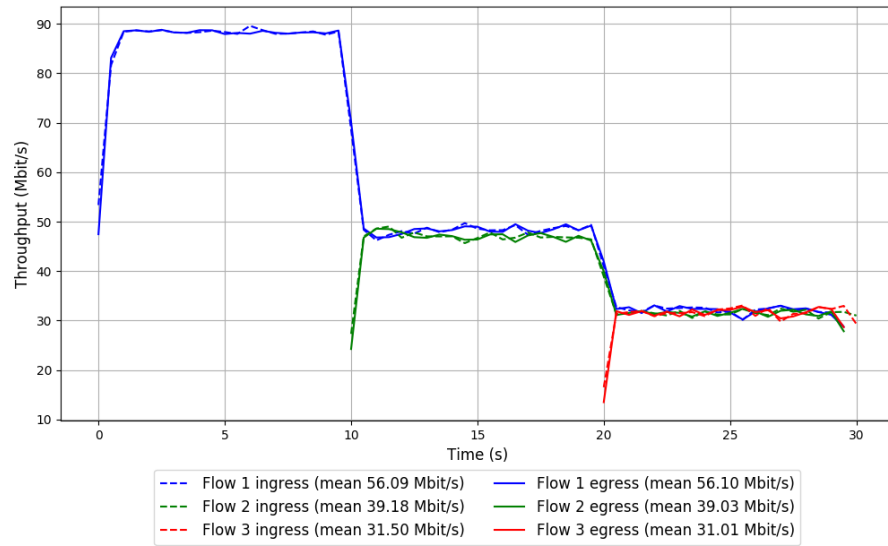


Run 4: Statistics of FillP

Start at: 2018-02-02 23:17:51
End at: 2018-02-02 23:18:21
Local clock offset: 0.234 ms
Remote clock offset: -19.954 ms

Below is generated by plot.py at 2018-02-03 05:15:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.30 Mbit/s
95th percentile per-packet one-way delay: 45.552 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 44.712 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 39.03 Mbit/s
95th percentile per-packet one-way delay: 45.720 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 31.01 Mbit/s
95th percentile per-packet one-way delay: 46.435 ms
Loss rate: 5.56%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-02 23:38:17

End at: 2018-02-02 23:38:47

Local clock offset: 0.263 ms

Remote clock offset: 0.885 ms

Below is generated by plot.py at 2018-02-03 05:15:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 24.879 ms

Loss rate: 1.37%

-- Flow 1:

Average throughput: 55.74 Mbit/s

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

Loss rate: 0.15%

-- Flow 2:

Average throughput: 39.86 Mbit/s

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

Loss rate: 2.08%

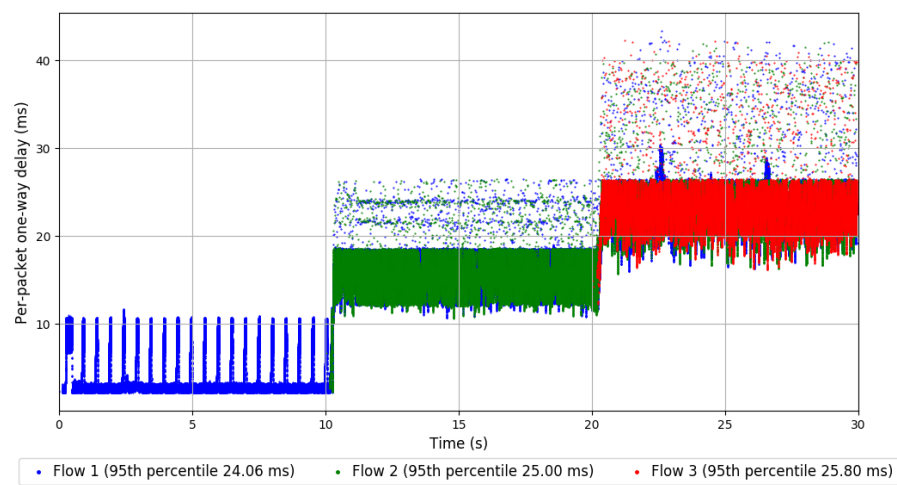
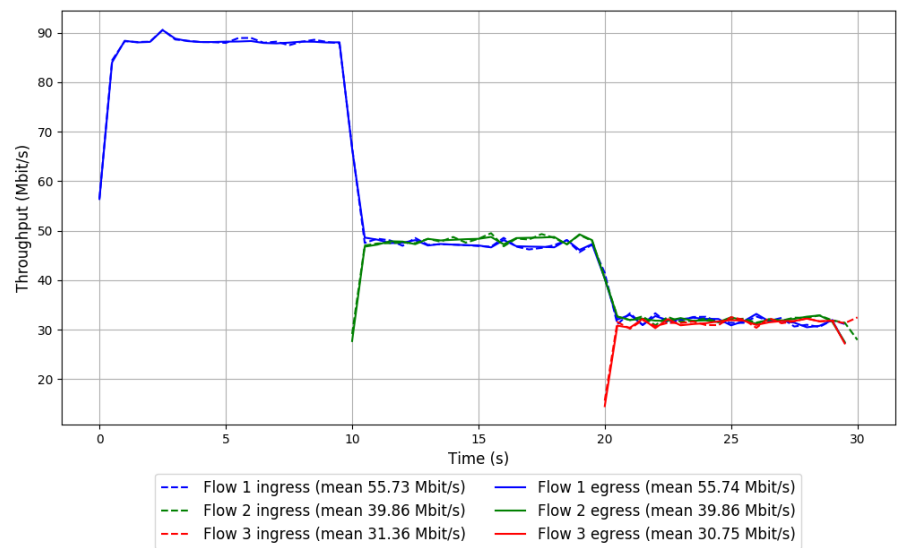
-- Flow 3:

Average throughput: 30.75 Mbit/s

95th percentile per-packet one-way delay: 25.801 ms

Loss rate: 5.89%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-02 23:58:37

End at: 2018-02-02 23:59:07

Local clock offset: 0.186 ms

Remote clock offset: 1.083 ms

Below is generated by plot.py at 2018-02-03 05:16:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 24.907 ms

Loss rate: 1.79%

-- Flow 1:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 24.090 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 39.84 Mbit/s

95th percentile per-packet one-way delay: 25.103 ms

Loss rate: 3.21%

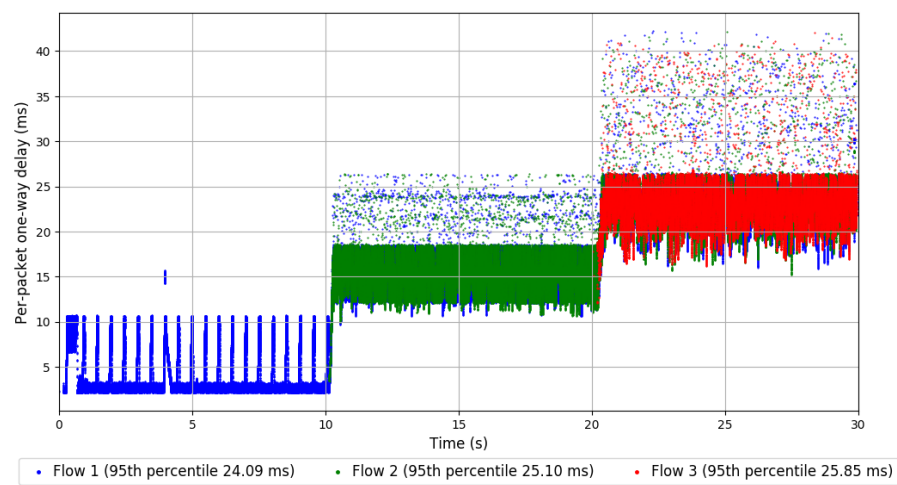
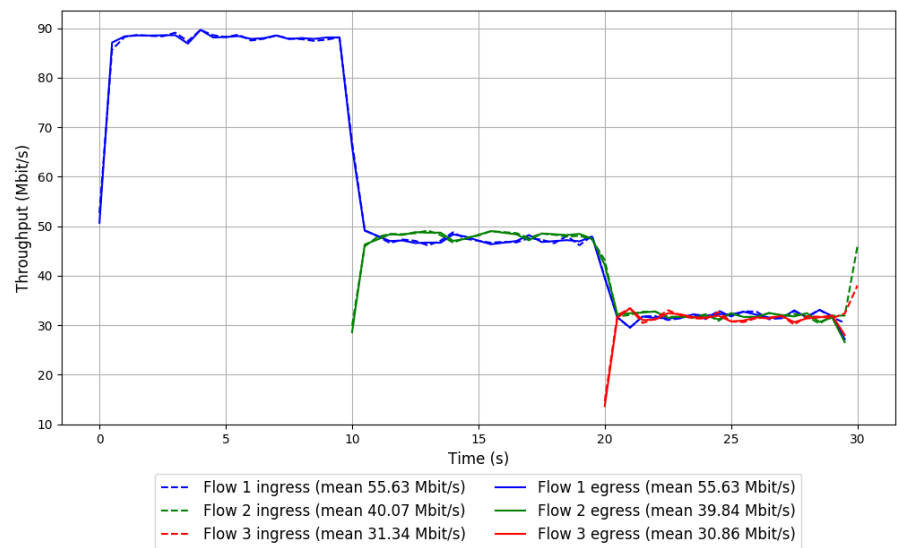
-- Flow 3:

Average throughput: 30.86 Mbit/s

95th percentile per-packet one-way delay: 25.846 ms

Loss rate: 6.64%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-03 00:18:56

End at: 2018-02-03 00:19:26

Local clock offset: 0.194 ms

Remote clock offset: 1.322 ms

Below is generated by plot.py at 2018-02-03 05:16:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.30 Mbit/s

95th percentile per-packet one-way delay: 25.097 ms

Loss rate: 3.53%

-- Flow 1:

Average throughput: 56.17 Mbit/s

95th percentile per-packet one-way delay: 24.218 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 38.79 Mbit/s

95th percentile per-packet one-way delay: 25.317 ms

Loss rate: 5.57%

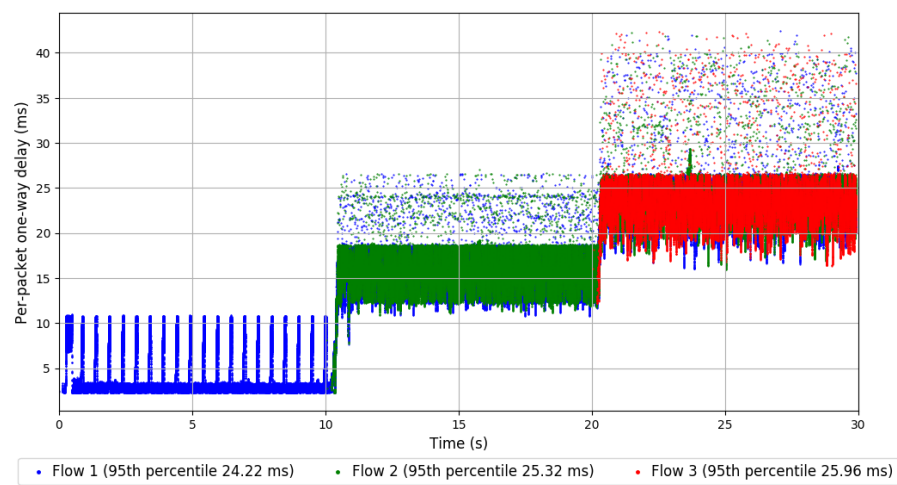
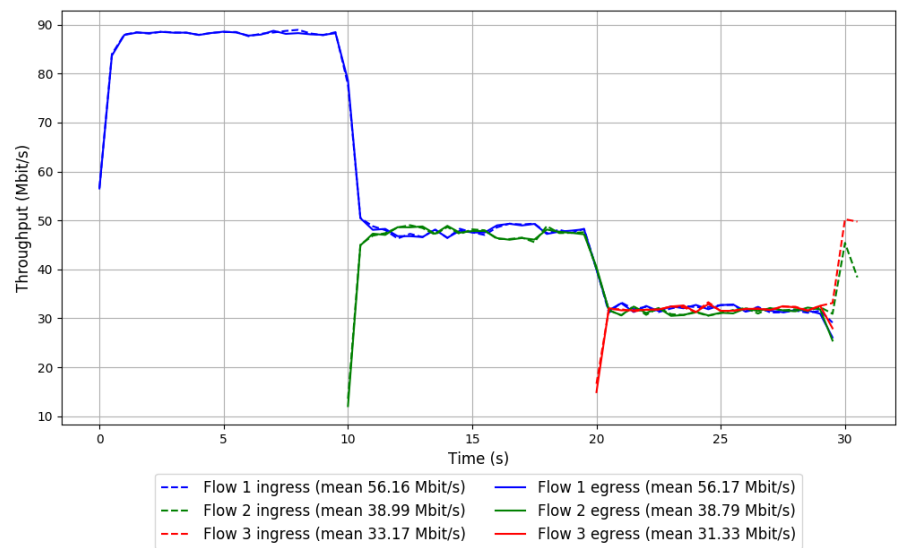
-- Flow 3:

Average throughput: 31.33 Mbit/s

95th percentile per-packet one-way delay: 25.957 ms

Loss rate: 14.71%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-03 00:39:17

End at: 2018-02-03 00:39:47

Local clock offset: 0.185 ms

Remote clock offset: 1.72 ms

Below is generated by plot.py at 2018-02-03 05:16:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.26 Mbit/s

95th percentile per-packet one-way delay: 24.965 ms

Loss rate: 0.59%

-- Flow 1:

Average throughput: 55.92 Mbit/s

95th percentile per-packet one-way delay: 24.082 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 39.46 Mbit/s

95th percentile per-packet one-way delay: 25.144 ms

Loss rate: 1.22%

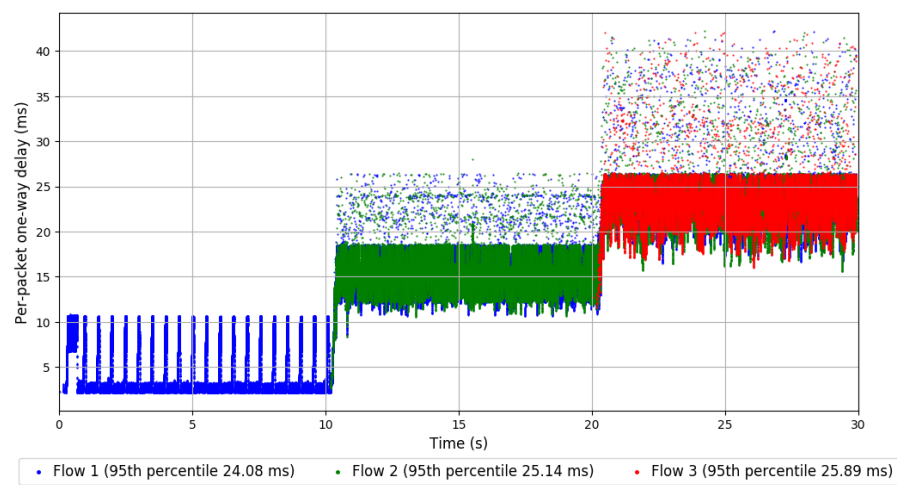
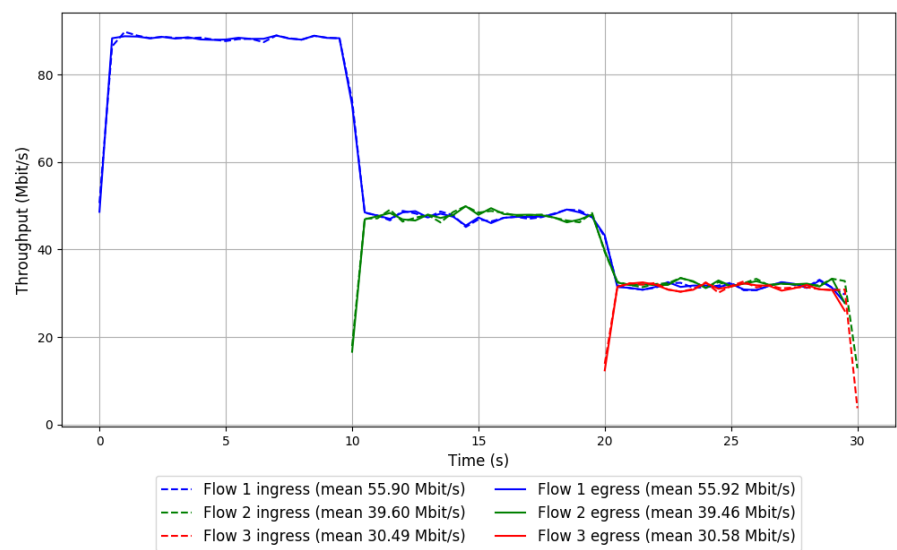
-- Flow 3:

Average throughput: 30.58 Mbit/s

95th percentile per-packet one-way delay: 25.891 ms

Loss rate: 1.61%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-03 00:59:47

End at: 2018-02-03 01:00:17

Local clock offset: 0.231 ms

Remote clock offset: 1.265 ms

Below is generated by plot.py at 2018-02-03 05:17:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.34 Mbit/s

95th percentile per-packet one-way delay: 25.068 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 55.57 Mbit/s

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

Loss rate: 0.13%

-- Flow 2:

Average throughput: 39.77 Mbit/s

95th percentile per-packet one-way delay: 25.225 ms

Loss rate: 0.49%

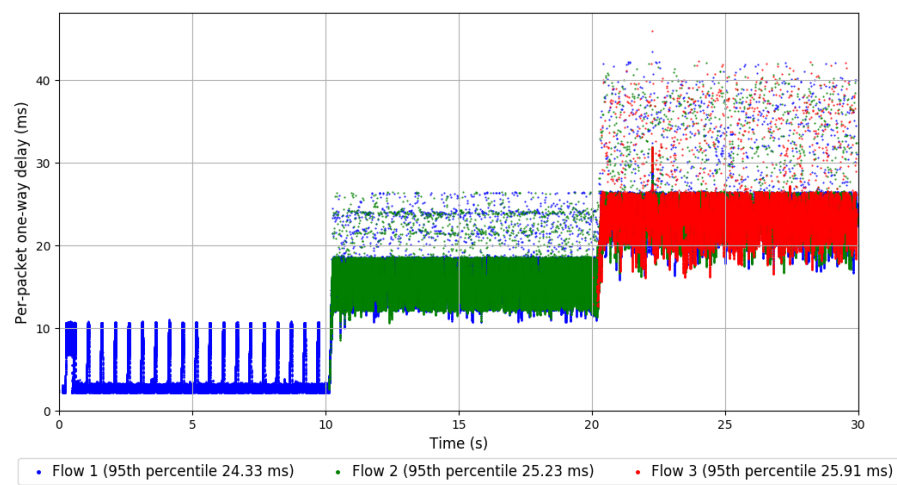
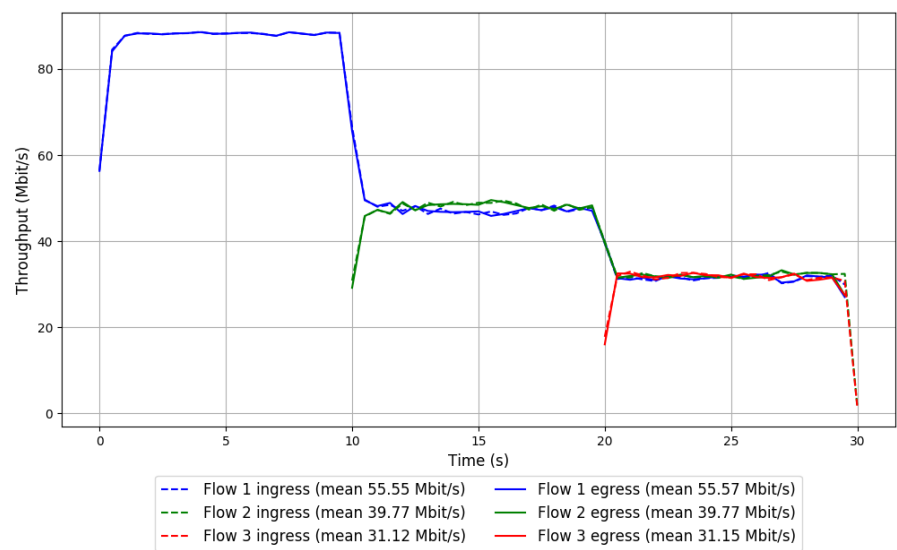
-- Flow 3:

Average throughput: 31.15 Mbit/s

95th percentile per-packet one-way delay: 25.905 ms

Loss rate: 1.04%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-03 01:20:14

End at: 2018-02-03 01:20:44

Local clock offset: 0.111 ms

Remote clock offset: 1.033 ms

Below is generated by plot.py at 2018-02-03 05:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 24.911 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 55.58 Mbit/s

95th percentile per-packet one-way delay: 24.183 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 25.124 ms

Loss rate: 2.70%

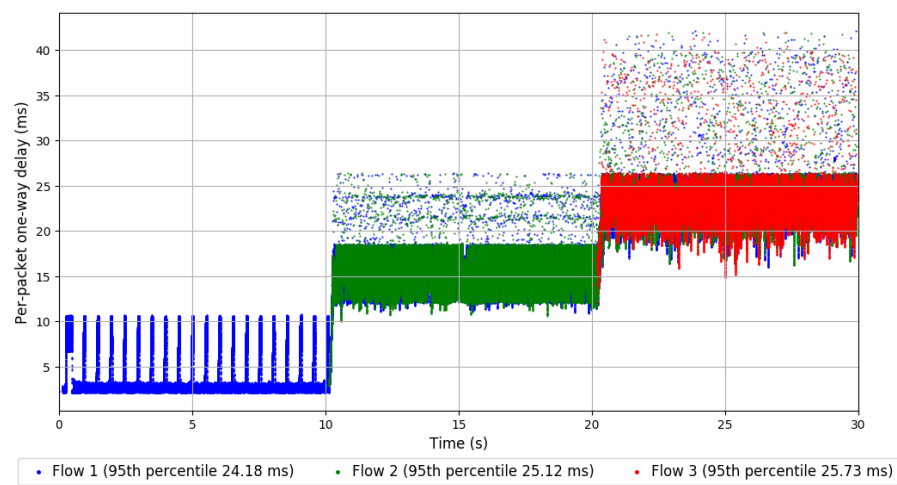
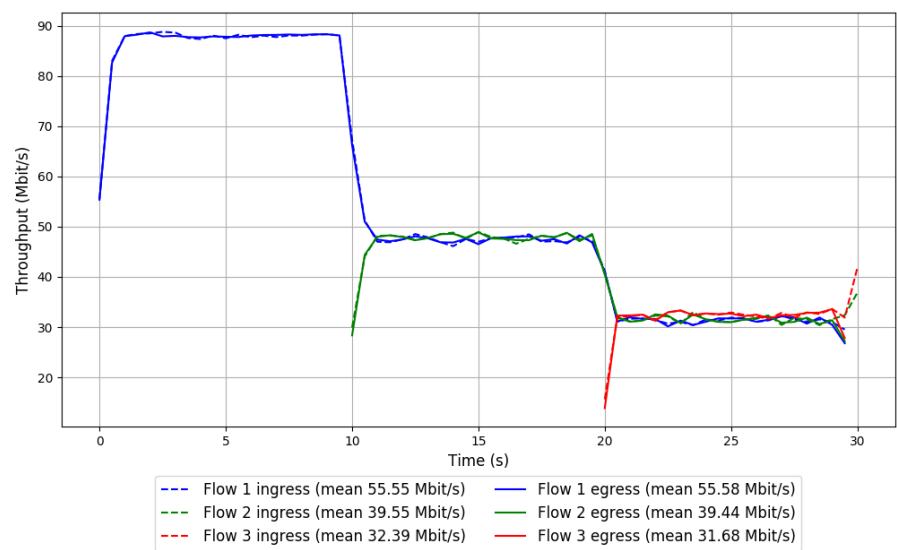
-- Flow 3:

Average throughput: 31.68 Mbit/s

95th percentile per-packet one-way delay: 25.729 ms

Loss rate: 6.99%

Run 10: Report of FillP — Data Link

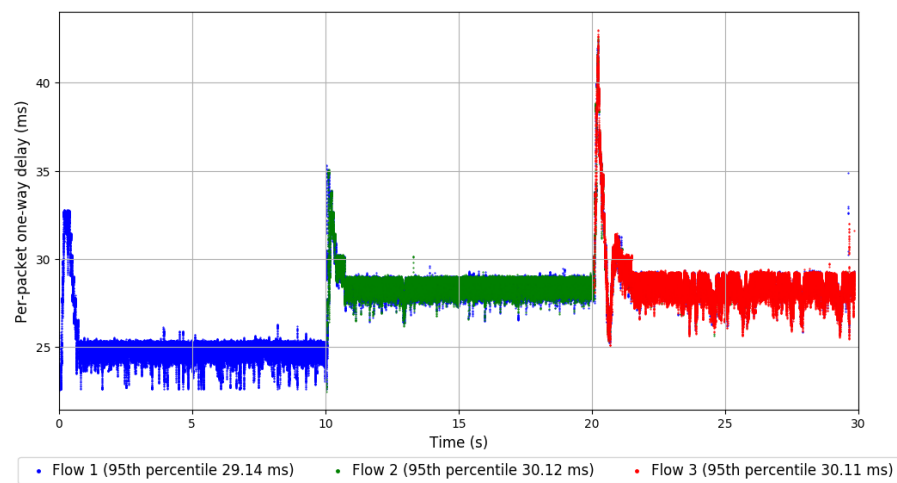
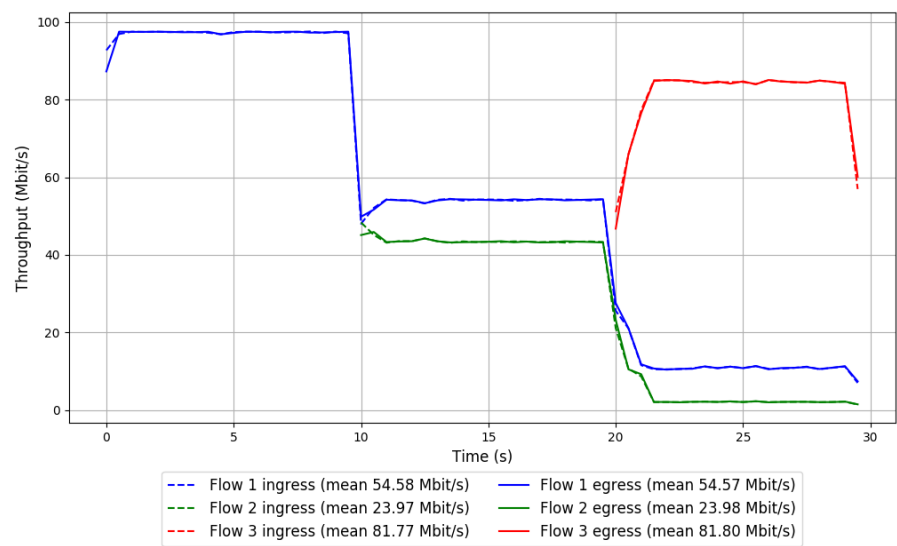


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-02 22:11:13
End at: 2018-02-02 22:11:43
Local clock offset: 0.141 ms
Remote clock offset: -20.109 ms

# Below is generated by plot.py at 2018-02-03 05:17:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 29.899 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 54.57 Mbit/s
95th percentile per-packet one-way delay: 29.145 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 23.98 Mbit/s
95th percentile per-packet one-way delay: 30.118 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 81.80 Mbit/s
95th percentile per-packet one-way delay: 30.112 ms
Loss rate: 0.12%
```

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



Run 2: Statistics of Indigo-1-32

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

End at: 2018-02-02 22:32:01

Local clock offset: 0.175 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-02-03 05:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.36 Mbit/s

95th percentile per-packet one-way delay: 9.760 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 9.369 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 24.04 Mbit/s

95th percentile per-packet one-way delay: 10.310 ms

Loss rate: 0.01%

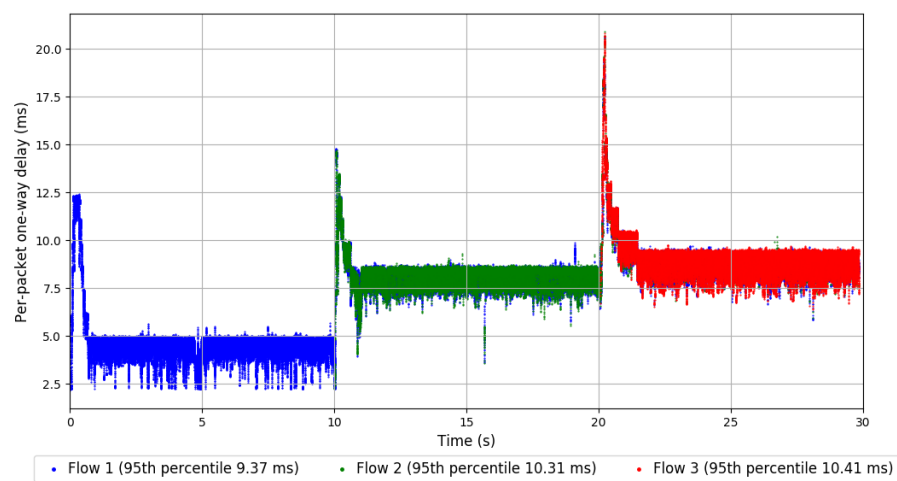
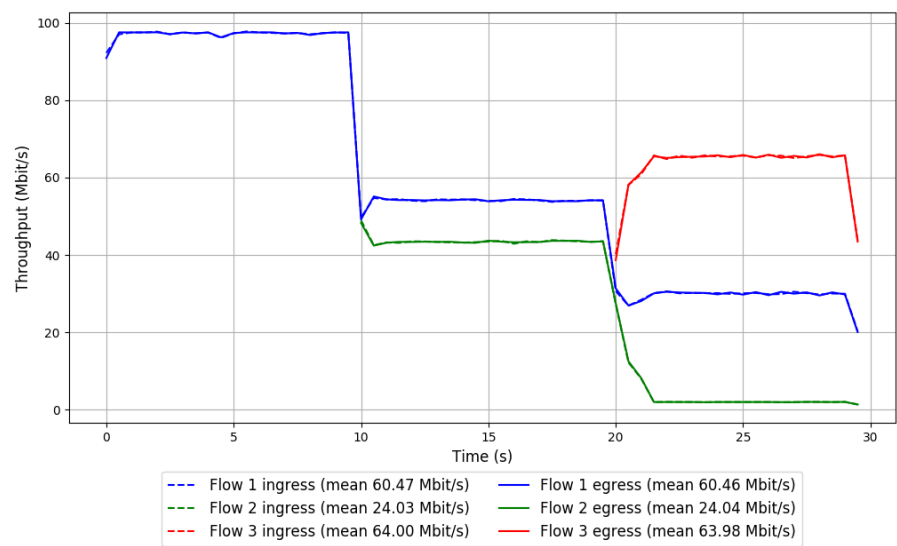
-- Flow 3:

Average throughput: 63.98 Mbit/s

95th percentile per-packet one-way delay: 10.413 ms

Loss rate: 0.12%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-02 22:51:49

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

Local clock offset: 0.232 ms

Remote clock offset: 0.236 ms

Below is generated by plot.py at 2018-02-03 05:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.16 Mbit/s

95th percentile per-packet one-way delay: 9.671 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.28 Mbit/s

95th percentile per-packet one-way delay: 8.090 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.84 Mbit/s

95th percentile per-packet one-way delay: 9.466 ms

Loss rate: 0.03%

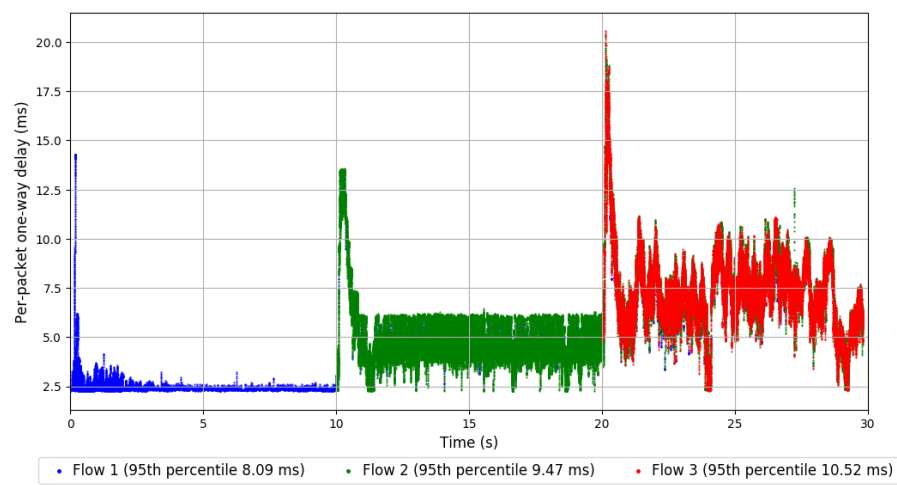
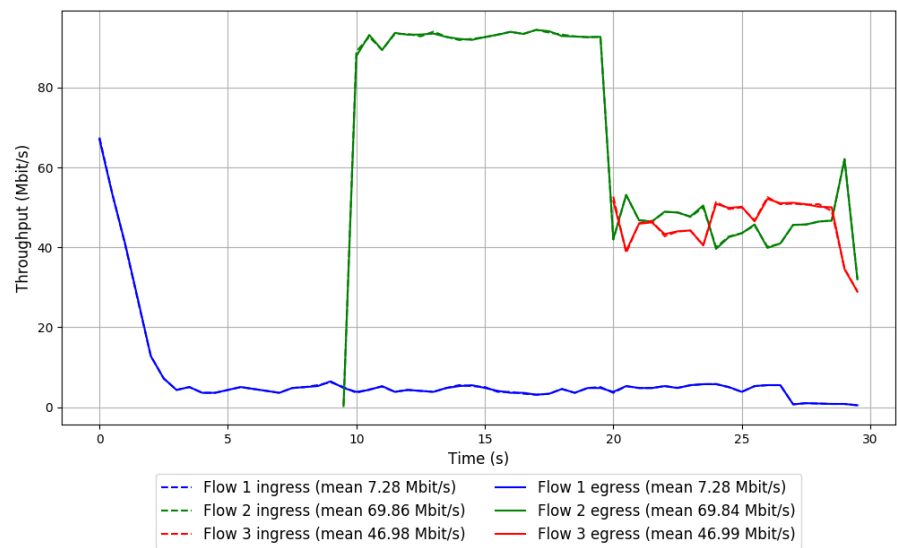
-- Flow 3:

Average throughput: 46.99 Mbit/s

95th percentile per-packet one-way delay: 10.520 ms

Loss rate: 0.07%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-02 23:12:10

End at: 2018-02-02 23:12:40

Local clock offset: 0.212 ms

Remote clock offset: 0.446 ms

Below is generated by plot.py at 2018-02-03 05:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 10.939 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 45.81 Mbit/s

95th percentile per-packet one-way delay: 10.137 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 11.067 ms

Loss rate: 0.05%

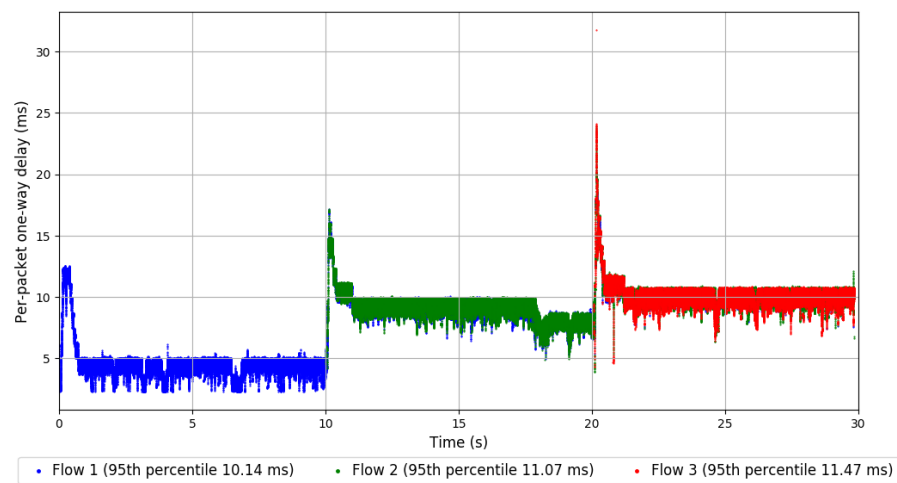
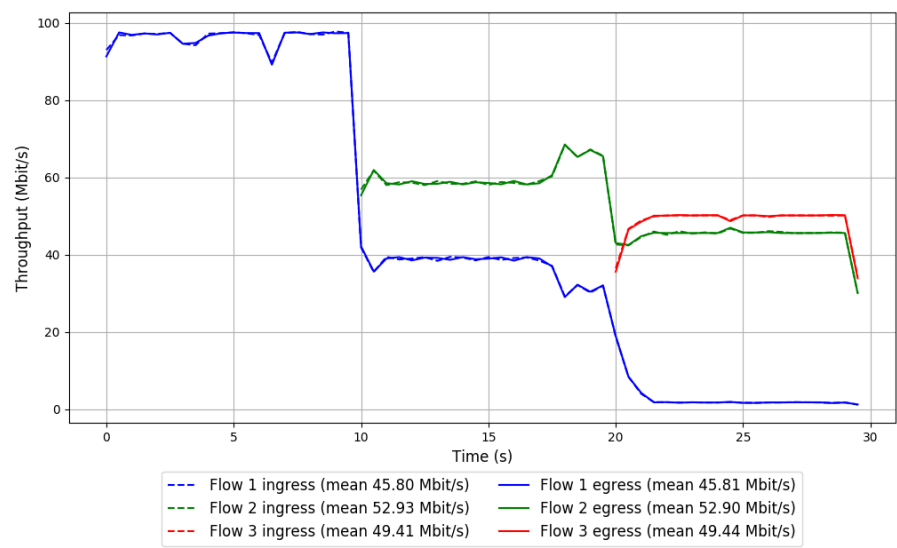
-- Flow 3:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 11.468 ms

Loss rate: 0.13%

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

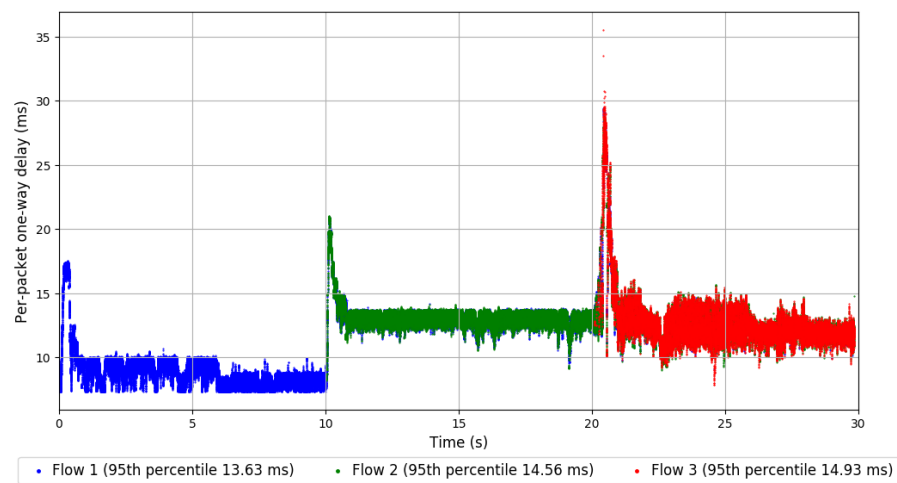
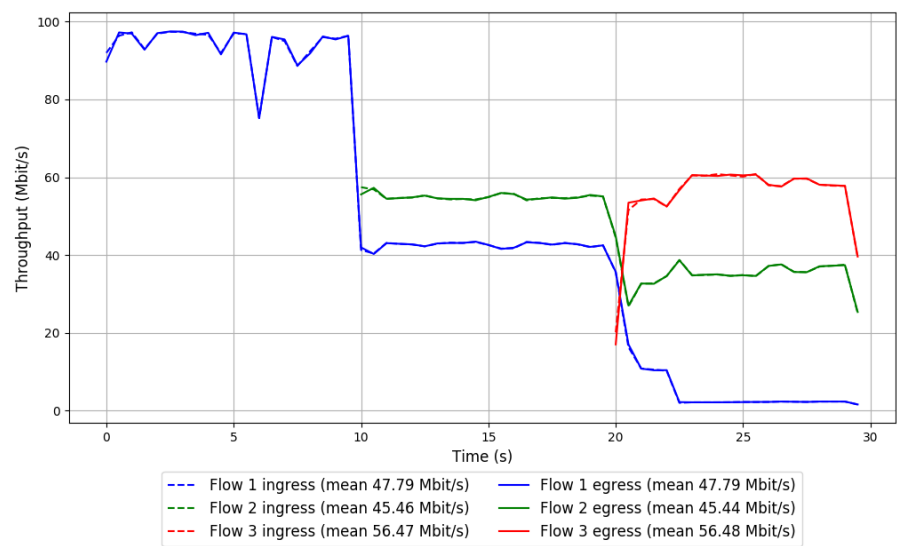


Run 5: Statistics of Indigo-1-32

Start at: 2018-02-02 23:32:35
End at: 2018-02-02 23:33:05
Local clock offset: 0.177 ms
Remote clock offset: -4.279 ms

Below is generated by plot.py at 2018-02-03 05:17:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 14.283 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 47.79 Mbit/s
95th percentile per-packet one-way delay: 13.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 14.560 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 14.931 ms
Loss rate: 0.10%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-02 23:53:00

End at: 2018-02-02 23:53:30

Local clock offset: 0.251 ms

Remote clock offset: 1.0 ms

Below is generated by plot.py at 2018-02-03 05:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 11.495 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 4.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.26 Mbit/s

95th percentile per-packet one-way delay: 11.355 ms

Loss rate: 0.02%

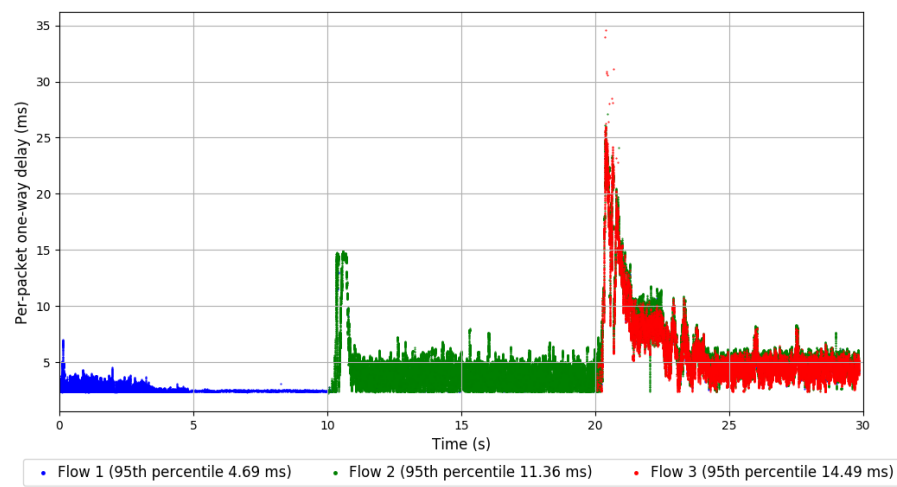
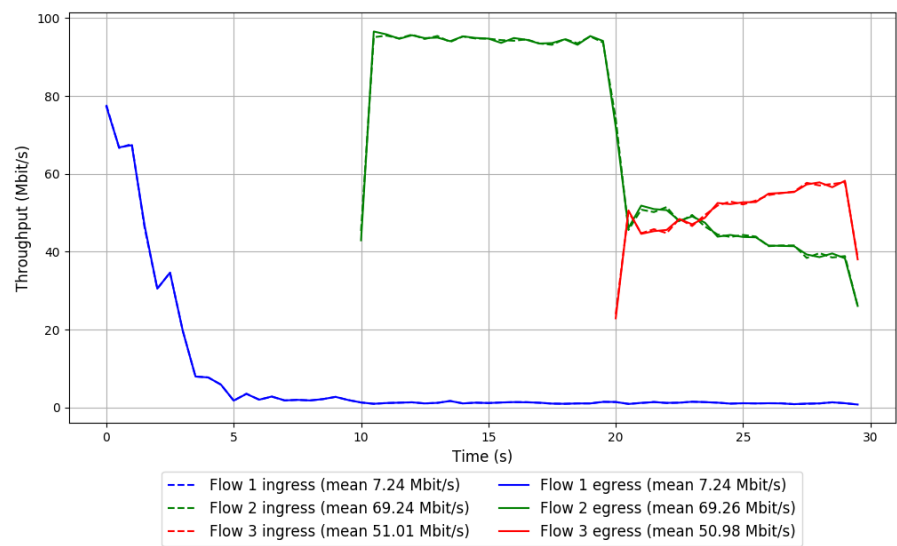
-- Flow 3:

Average throughput: 50.98 Mbit/s

95th percentile per-packet one-way delay: 14.486 ms

Loss rate: 0.10%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-03 00:13:17

End at: 2018-02-03 00:13:47

Local clock offset: 0.156 ms

Remote clock offset: 1.299 ms

Below is generated by plot.py at 2018-02-03 05:17:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 83.08 Mbit/s

95th percentile per-packet one-way delay: 10.083 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 22.10 Mbit/s

95th percentile per-packet one-way delay: 14.159 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 66.18 Mbit/s

95th percentile per-packet one-way delay: 9.694 ms

Loss rate: 0.04%

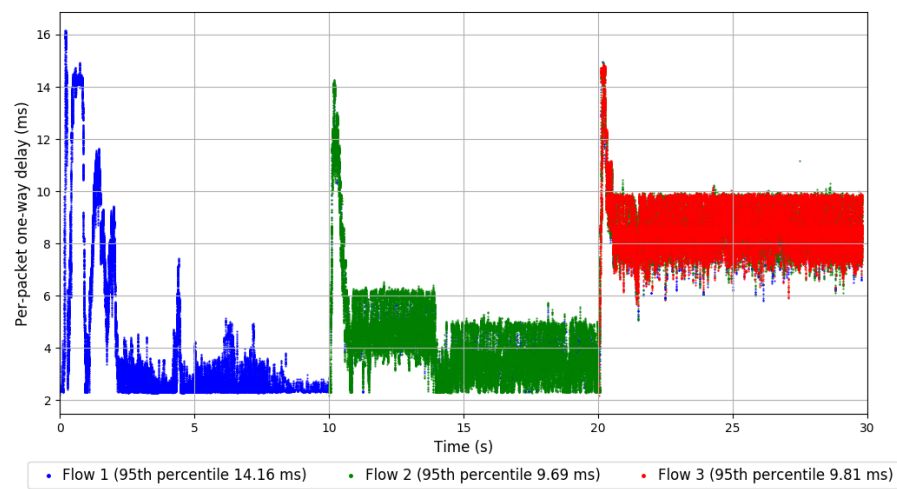
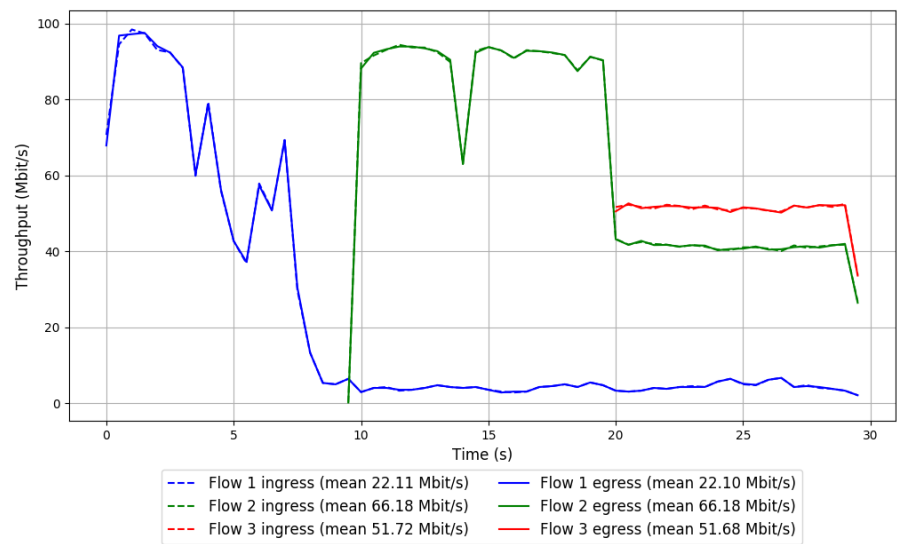
-- Flow 3:

Average throughput: 51.68 Mbit/s

95th percentile per-packet one-way delay: 9.806 ms

Loss rate: 0.12%

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

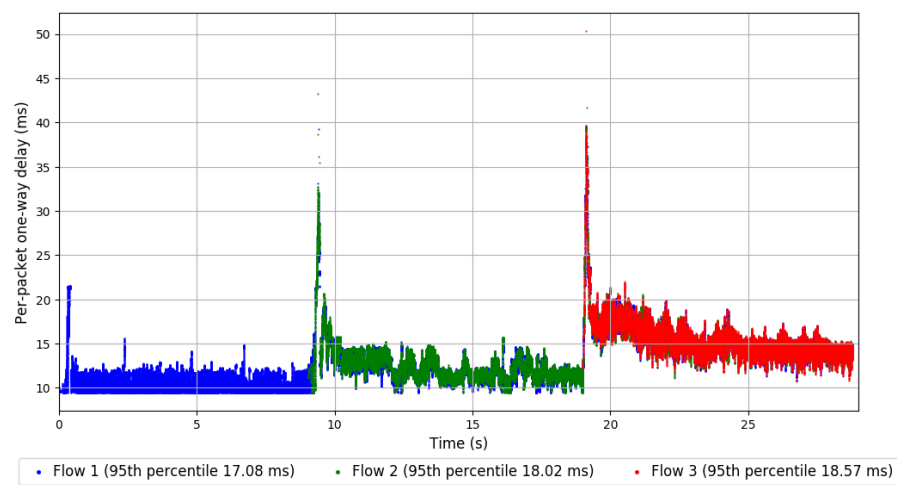
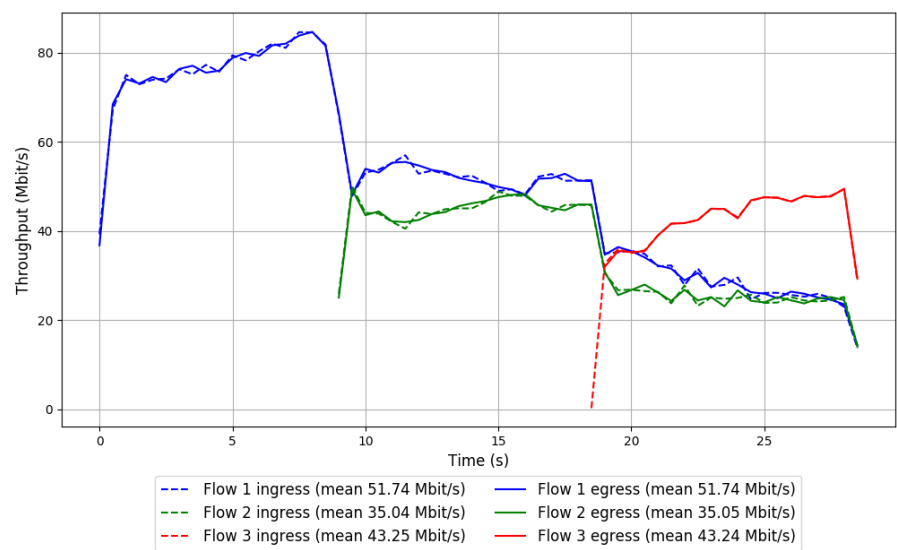


Run 8: Statistics of Indigo-1-32

Start at: 2018-02-03 00:33:35
End at: 2018-02-03 00:34:05
Local clock offset: 0.19 ms
Remote clock offset: -5.507 ms

Below is generated by plot.py at 2018-02-03 05:18:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.49 Mbit/s
95th percentile per-packet one-way delay: 17.872 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 51.74 Mbit/s
95th percentile per-packet one-way delay: 17.083 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.05 Mbit/s
95th percentile per-packet one-way delay: 18.015 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 43.24 Mbit/s
95th percentile per-packet one-way delay: 18.571 ms
Loss rate: 0.10%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-03 00:54:06

End at: 2018-02-03 00:54:36

Local clock offset: 0.144 ms

Remote clock offset: 1.305 ms

Below is generated by plot.py at 2018-02-03 05:18:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 9.439 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 54.99 Mbit/s

95th percentile per-packet one-way delay: 9.257 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.27 Mbit/s

95th percentile per-packet one-way delay: 9.605 ms

Loss rate: 0.05%

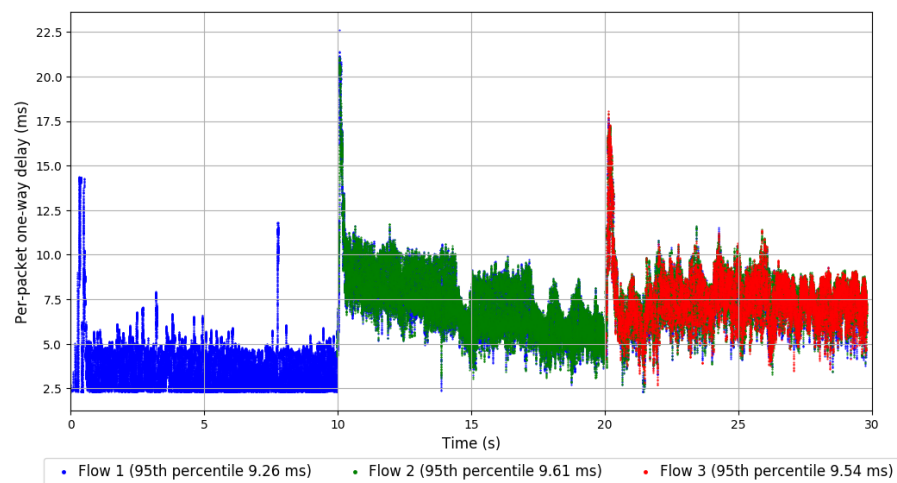
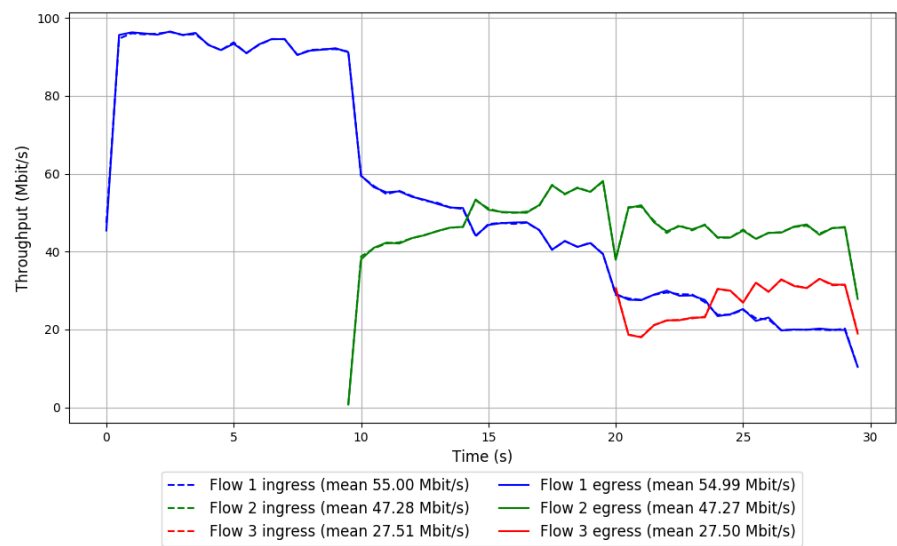
-- Flow 3:

Average throughput: 27.50 Mbit/s

95th percentile per-packet one-way delay: 9.543 ms

Loss rate: 0.11%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-03 01:14:30

End at: 2018-02-03 01:15:00

Local clock offset: 0.19 ms

Remote clock offset: 1.079 ms

Below is generated by plot.py at 2018-02-03 05:19:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 9.704 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 51.13 Mbit/s

95th percentile per-packet one-way delay: 9.422 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.12 Mbit/s

95th percentile per-packet one-way delay: 10.481 ms

Loss rate: 0.01%

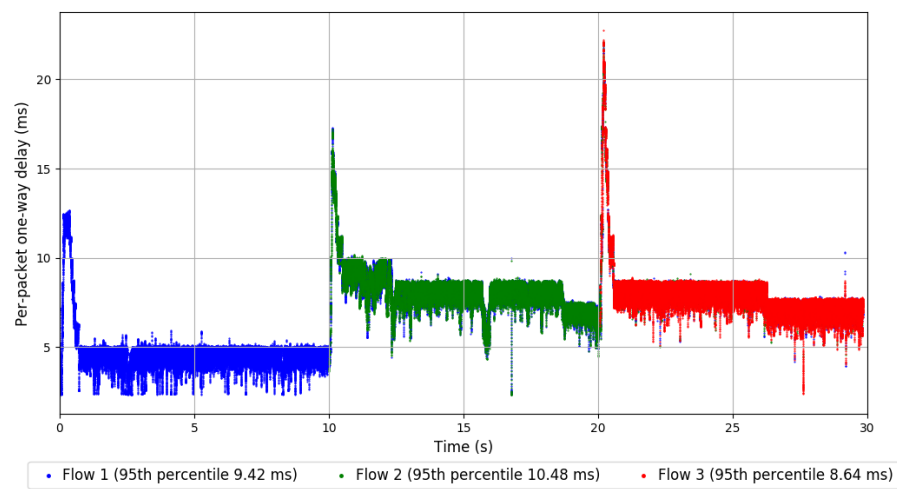
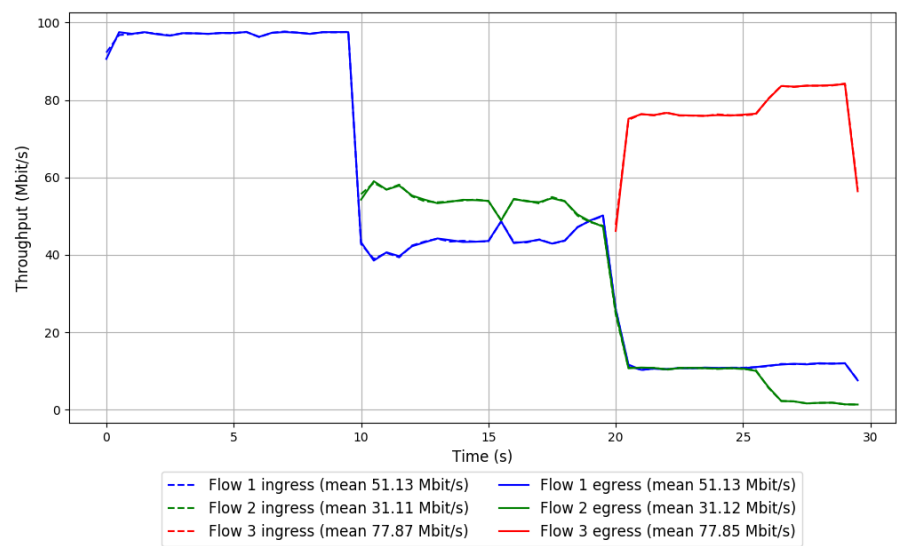
-- Flow 3:

Average throughput: 77.85 Mbit/s

95th percentile per-packet one-way delay: 8.645 ms

Loss rate: 0.11%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-02 22:14:37

End at: 2018-02-02 22:15:07

Local clock offset: 0.227 ms

Remote clock offset: 0.18 ms

Below is generated by plot.py at 2018-02-03 05:19:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 43.10 Mbit/s

95th percentile per-packet one-way delay: 3.846 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 2.782 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.13 Mbit/s

95th percentile per-packet one-way delay: 4.014 ms

Loss rate: 0.04%

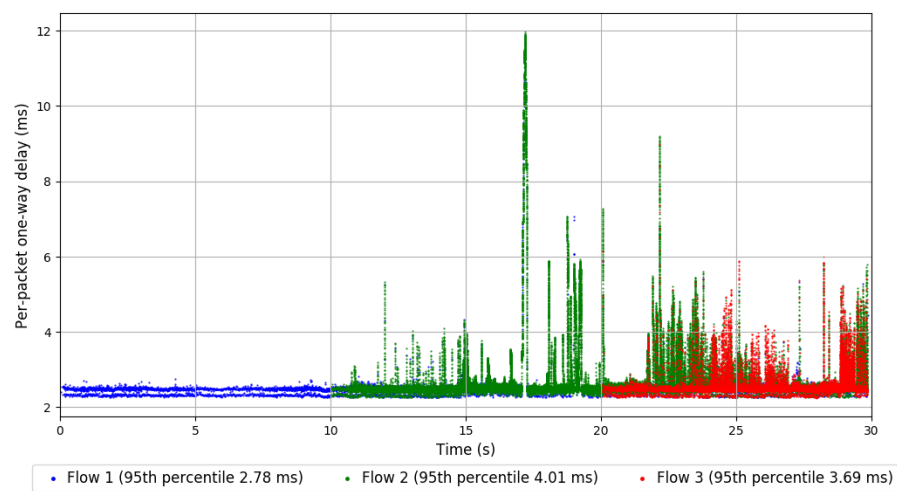
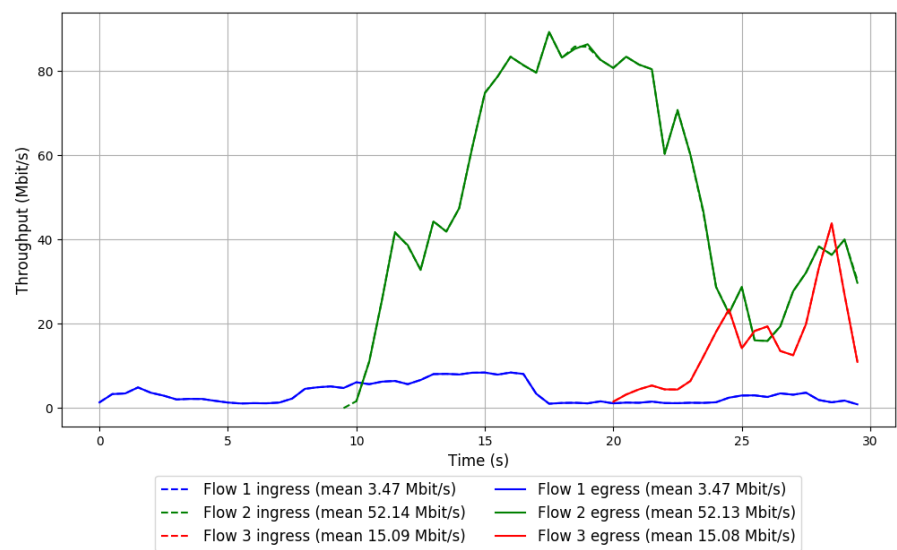
-- Flow 3:

Average throughput: 15.08 Mbit/s

95th percentile per-packet one-way delay: 3.692 ms

Loss rate: 0.08%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-02 22:34:54

End at: 2018-02-02 22:35:24

Local clock offset: 0.27 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-02-03 05:19:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 54.32 Mbit/s

95th percentile per-packet one-way delay: 5.057 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 21.91 Mbit/s

95th percentile per-packet one-way delay: 3.757 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 36.60 Mbit/s

95th percentile per-packet one-way delay: 4.898 ms

Loss rate: 0.04%

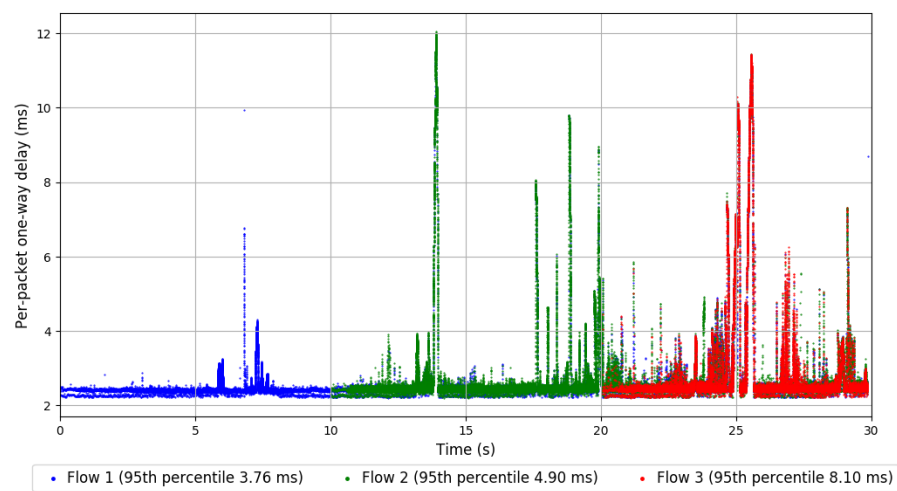
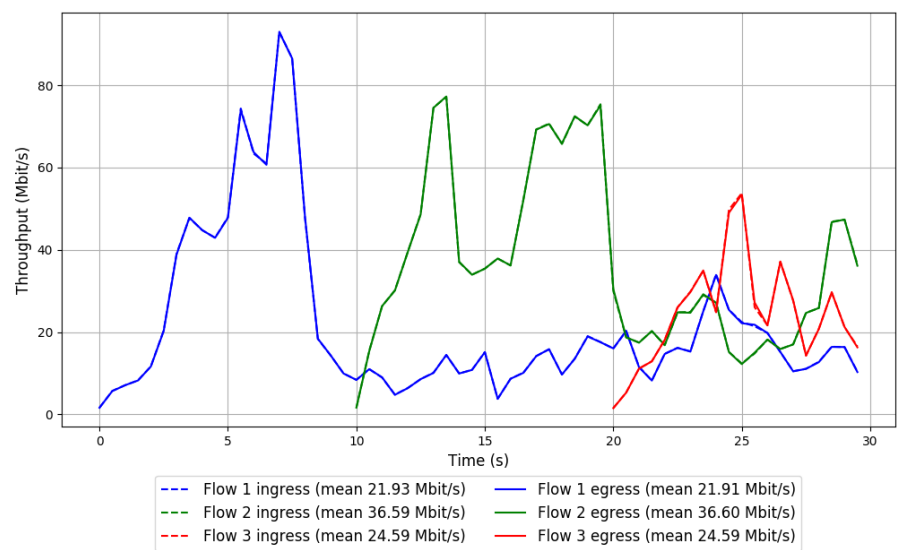
-- Flow 3:

Average throughput: 24.59 Mbit/s

95th percentile per-packet one-way delay: 8.095 ms

Loss rate: 0.07%

Run 2: Report of Vivace-latency — Data Link

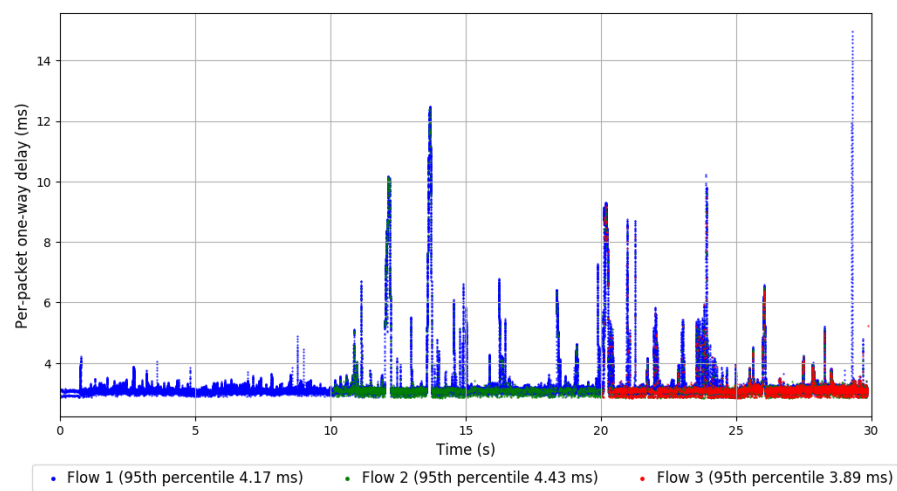
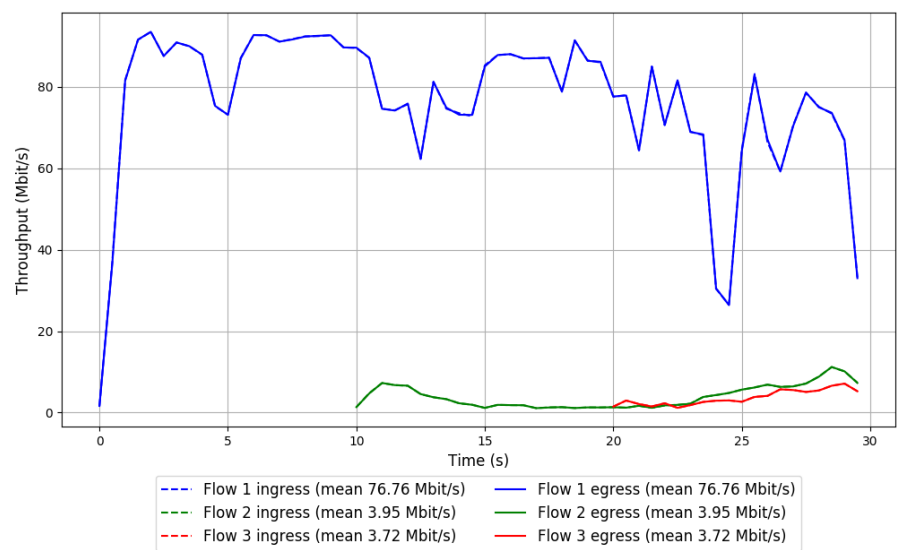


Run 3: Statistics of Vivace-latency

Start at: 2018-02-02 22:55:11
End at: 2018-02-02 22:55:41
Local clock offset: 0.296 ms
Remote clock offset: -0.487 ms

Below is generated by plot.py at 2018-02-03 05:19:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.61 Mbit/s
95th percentile per-packet one-way delay: 4.180 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 4.173 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 4.426 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 3.887 ms
Loss rate: 0.06%

Run 3: Report of Vivace-latency — Data Link

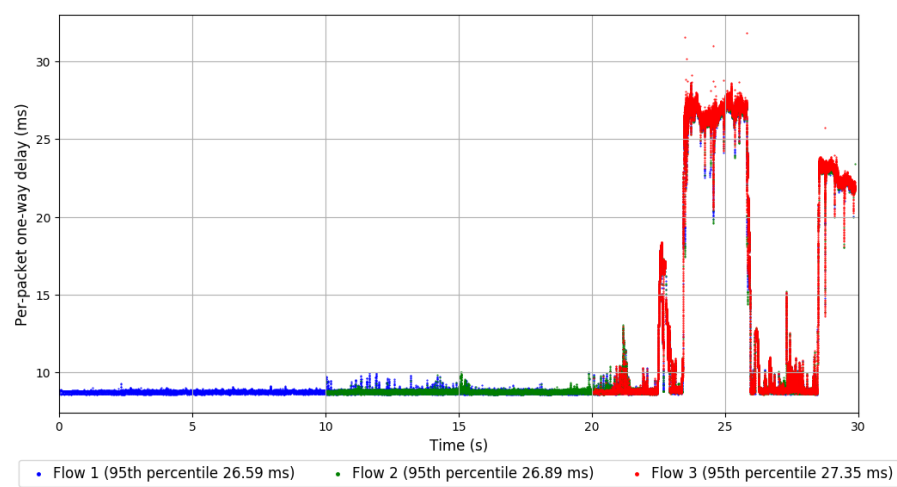
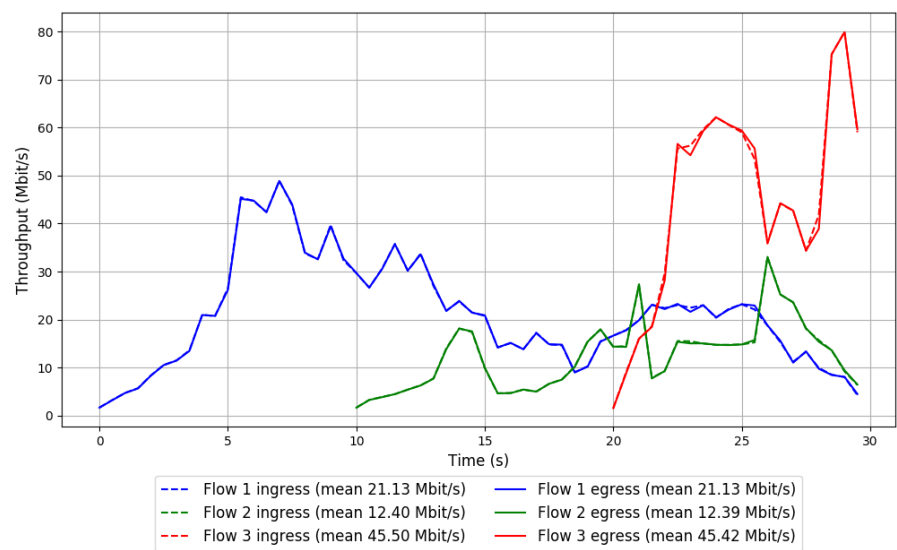


Run 4: Statistics of Vivace-latency

Start at: 2018-02-02 23:15:34
End at: 2018-02-02 23:16:04
Local clock offset: 0.281 ms
Remote clock offset: -5.907 ms

Below is generated by plot.py at 2018-02-03 05:19:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.30 Mbit/s
95th percentile per-packet one-way delay: 27.070 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 21.13 Mbit/s
95th percentile per-packet one-way delay: 26.586 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 26.894 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 45.42 Mbit/s
95th percentile per-packet one-way delay: 27.353 ms
Loss rate: 0.34%

Run 4: Report of Vivace-latency — Data Link

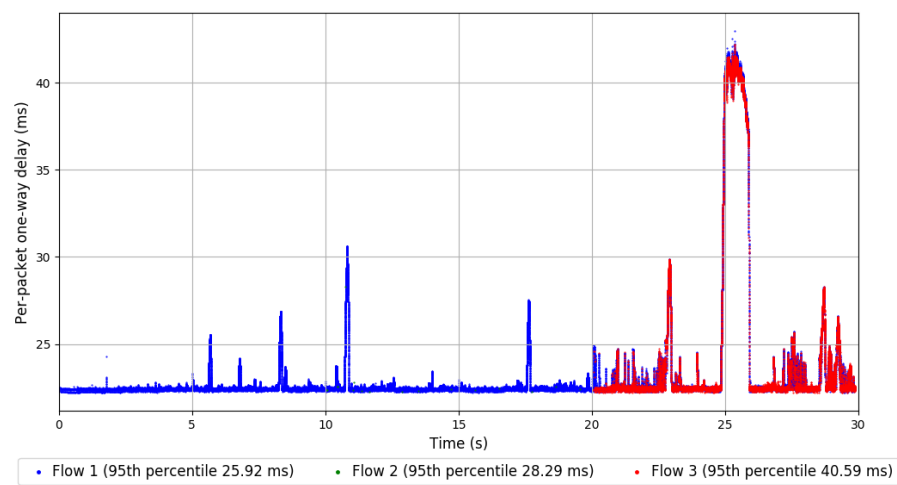
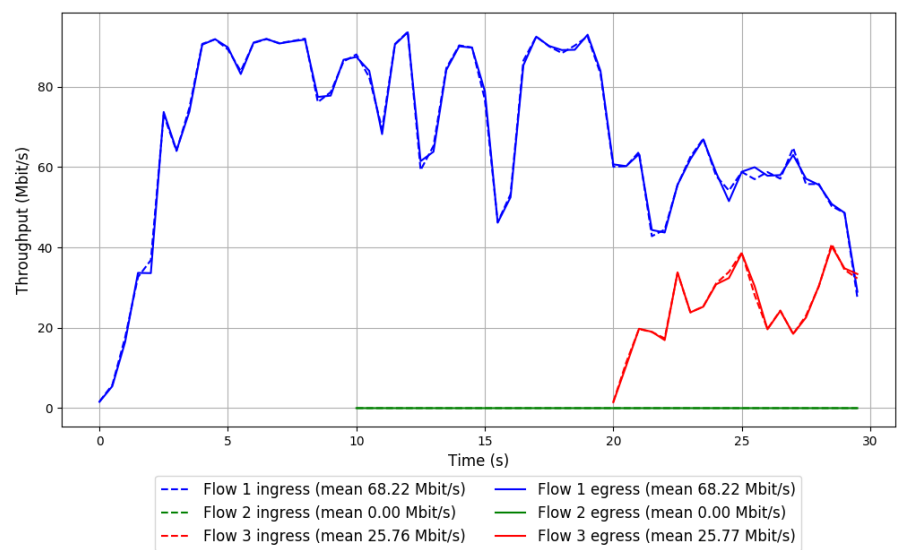


Run 5: Statistics of Vivace-latency

Start at: 2018-02-02 23:35:59
End at: 2018-02-02 23:36:29
Local clock offset: 0.297 ms
Remote clock offset: -19.206 ms

Below is generated by plot.py at 2018-02-03 05:19:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.70 Mbit/s
95th percentile per-packet one-way delay: 28.176 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 68.22 Mbit/s
95th percentile per-packet one-way delay: 25.920 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 28.292 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.77 Mbit/s
95th percentile per-packet one-way delay: 40.591 ms
Loss rate: 0.09%

Run 5: Report of Vivace-latency — Data Link

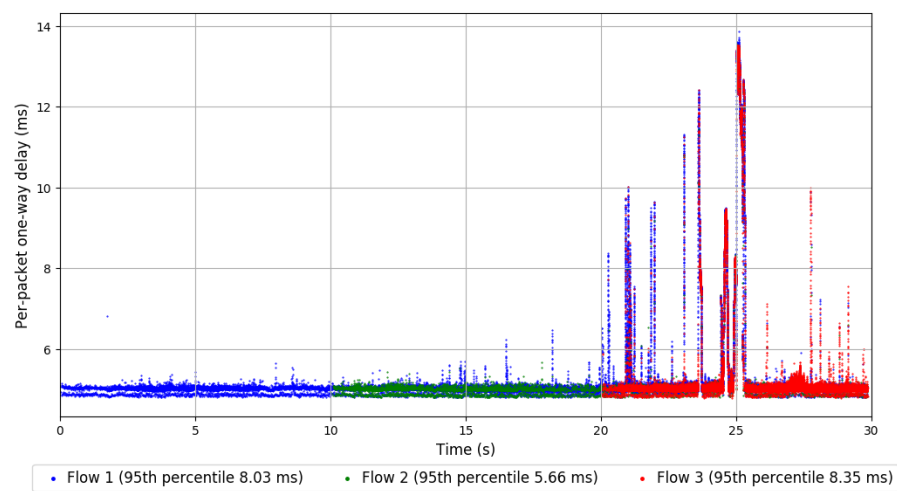
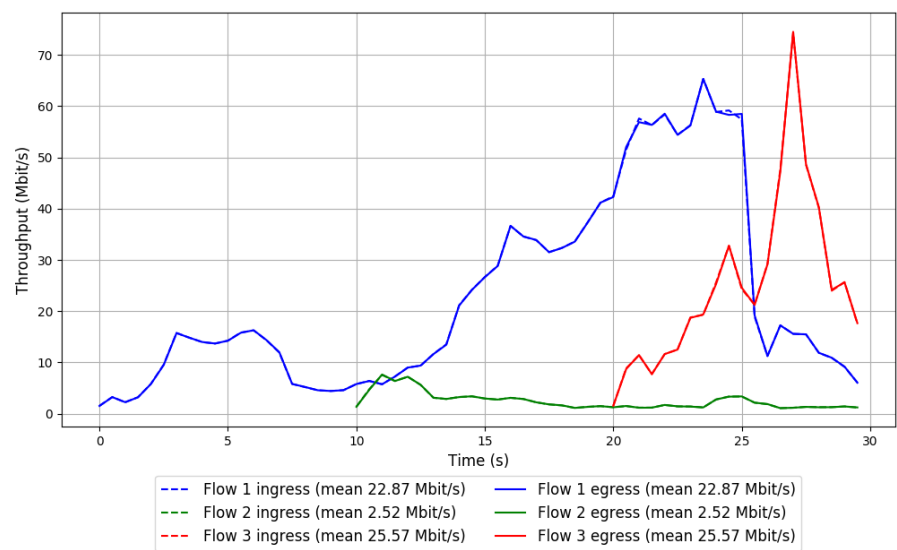


Run 6: Statistics of Vivace-latency

Start at: 2018-02-02 23:56:21
End at: 2018-02-02 23:56:51
Local clock offset: 0.246 ms
Remote clock offset: -1.597 ms

Below is generated by plot.py at 2018-02-03 05:19:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 8.054 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 22.87 Mbit/s
95th percentile per-packet one-way delay: 8.031 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 5.657 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.57 Mbit/s
95th percentile per-packet one-way delay: 8.349 ms
Loss rate: 0.03%

Run 6: Report of Vivace-latency — Data Link

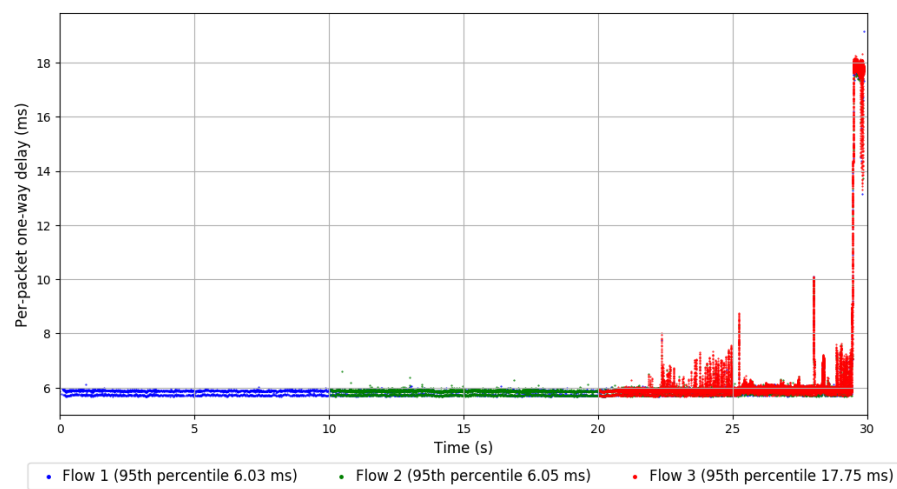
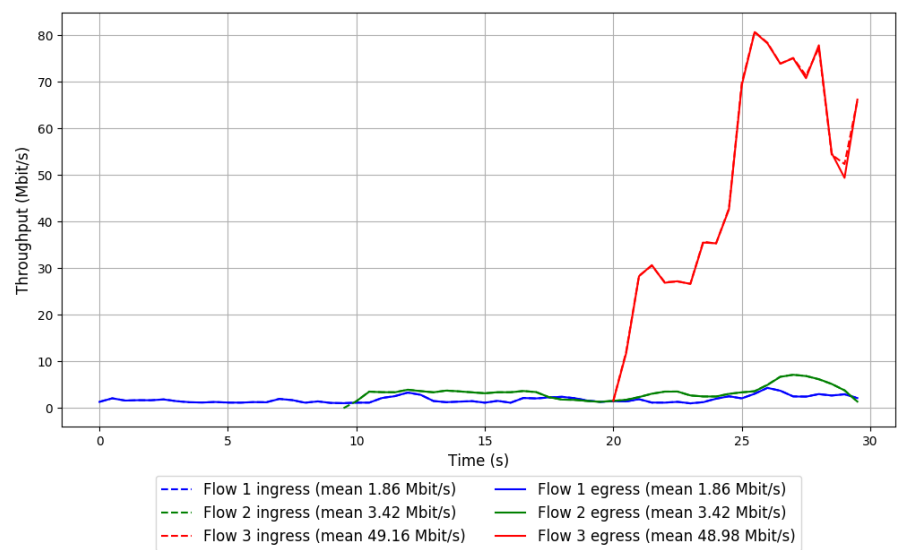


Run 7: Statistics of Vivace-latency

Start at: 2018-02-03 00:16:41
End at: 2018-02-03 00:17:11
Local clock offset: 0.219 ms
Remote clock offset: -2.137 ms

Below is generated by plot.py at 2018-02-03 05:19:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 17.578 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 6.032 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 6.054 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 48.98 Mbit/s
95th percentile per-packet one-way delay: 17.752 ms
Loss rate: 0.40%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-03 00:36:59

End at: 2018-02-03 00:37:29

Local clock offset: 0.172 ms

Remote clock offset: 1.295 ms

Below is generated by plot.py at 2018-02-03 05:19:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 29.651 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 39.74 Mbit/s

95th percentile per-packet one-way delay: 14.155 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.67 Mbit/s

95th percentile per-packet one-way delay: 29.926 ms

Loss rate: 0.03%

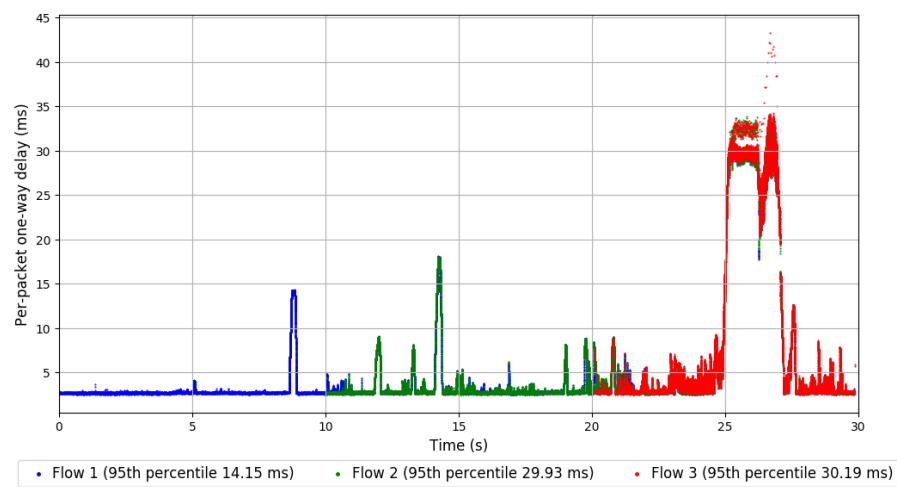
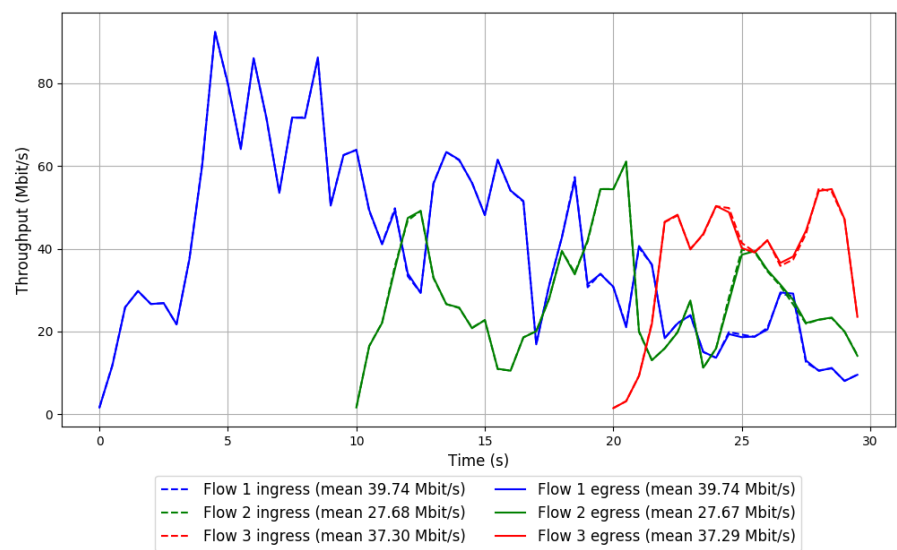
-- Flow 3:

Average throughput: 37.29 Mbit/s

95th percentile per-packet one-way delay: 30.191 ms

Loss rate: 0.04%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-03 00:57:29

End at: 2018-02-03 00:57:59

Local clock offset: 0.205 ms

Remote clock offset: 1.32 ms

Below is generated by plot.py at 2018-02-03 05:19:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 15.374 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 15.274 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 40.53 Mbit/s

95th percentile per-packet one-way delay: 16.243 ms

Loss rate: 0.02%

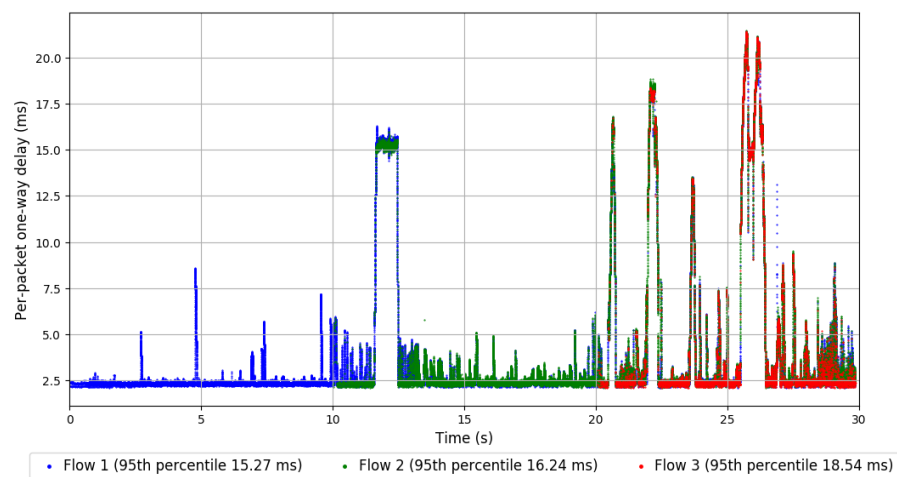
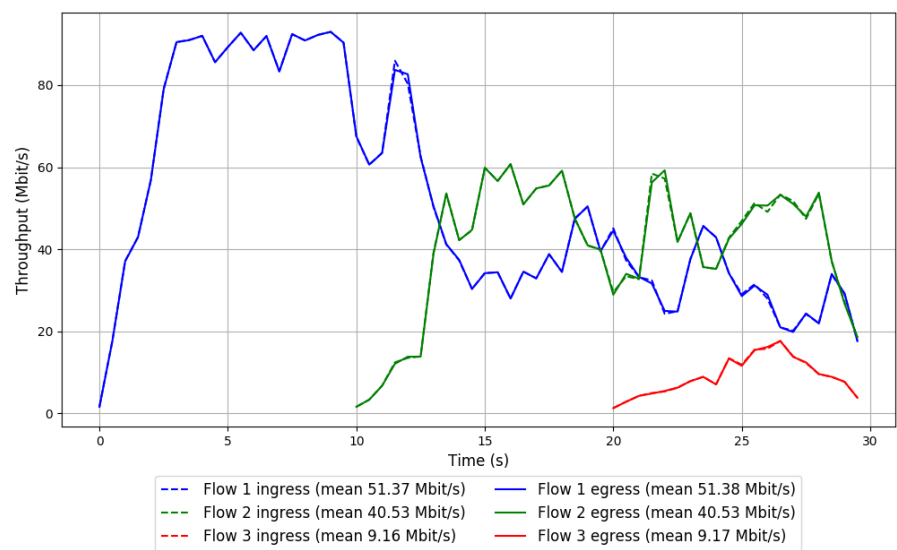
-- Flow 3:

Average throughput: 9.17 Mbit/s

95th percentile per-packet one-way delay: 18.542 ms

Loss rate: 0.01%

Run 9: Report of Vivace-latency — Data Link

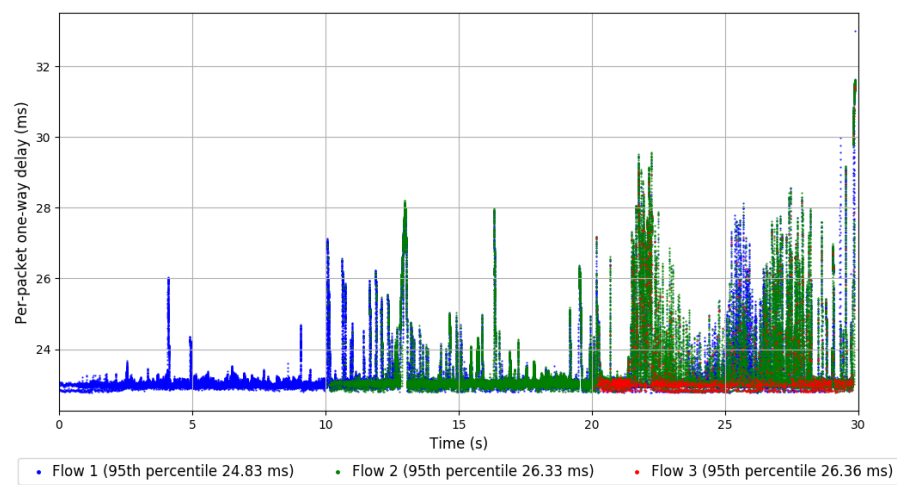
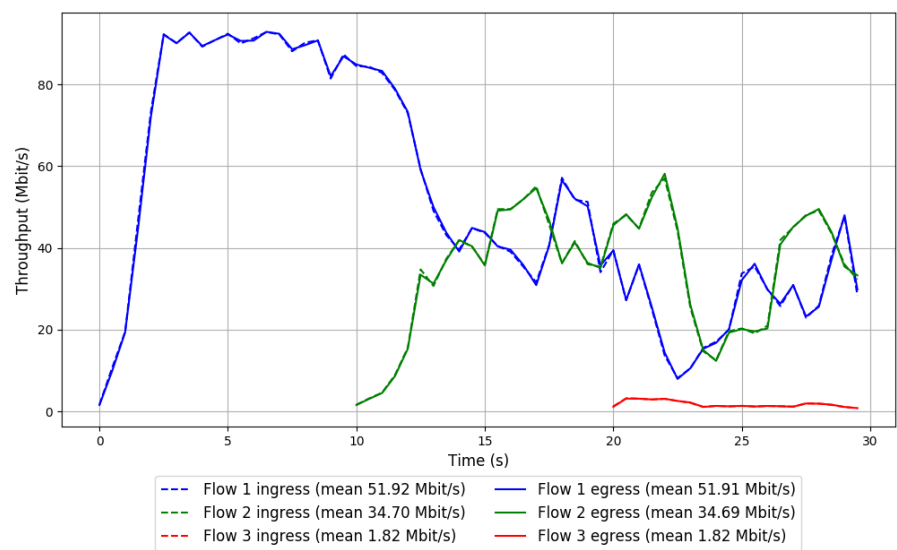


Run 10: Statistics of Vivace-latency

Start at: 2018-02-03 01:17:55
End at: 2018-02-03 01:18:25
Local clock offset: 0.184 ms
Remote clock offset: -19.58 ms

Below is generated by plot.py at 2018-02-03 05:19:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.57 Mbit/s
95th percentile per-packet one-way delay: 25.467 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 51.91 Mbit/s
95th percentile per-packet one-way delay: 24.828 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 34.69 Mbit/s
95th percentile per-packet one-way delay: 26.331 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 26.364 ms
Loss rate: 0.07%

Run 10: Report of Vivace-latency — Data Link

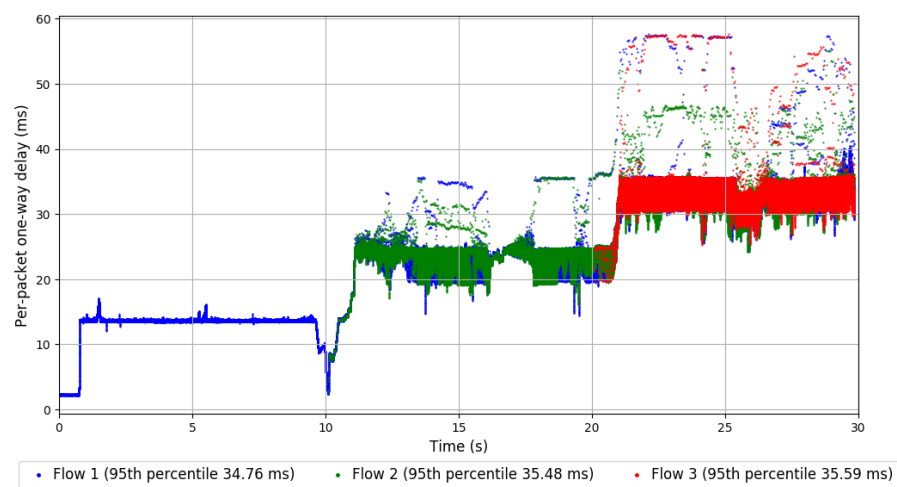
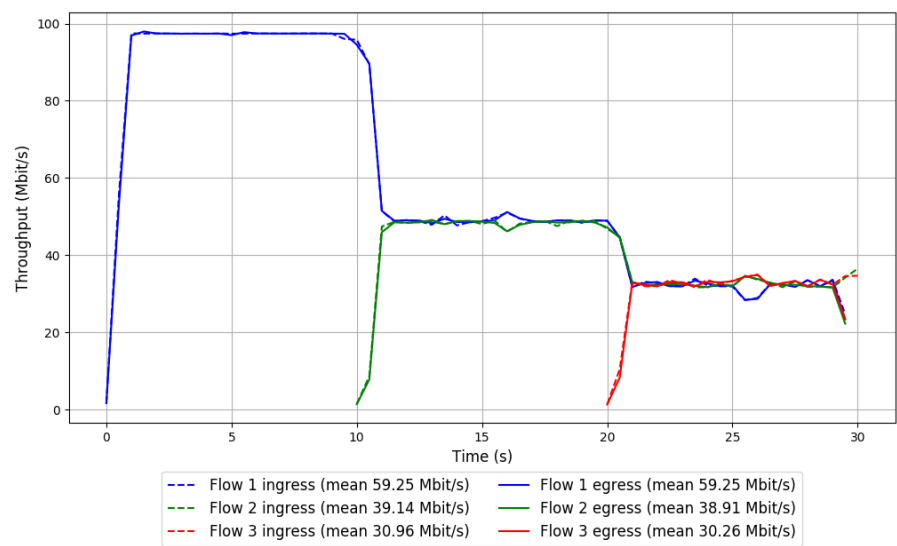


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-02 22:08:51
End at: 2018-02-02 22:09:21
Local clock offset: 0.149 ms
Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2018-02-03 05:20:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.02 Mbit/s
95th percentile per-packet one-way delay: 35.437 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 34.762 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 35.485 ms
Loss rate: 3.19%
-- Flow 3:
Average throughput: 30.26 Mbit/s
95th percentile per-packet one-way delay: 35.589 ms
Loss rate: 7.49%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-02 22:29:13

End at: 2018-02-02 22:29:43

Local clock offset: 0.253 ms

Remote clock offset: 0.317 ms

Run 2: Report of Vivace-loss — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Vivace-loss

Start at: 2018-02-02 22:49:29

End at: 2018-02-02 22:49:59

Local clock offset: 0.242 ms

Remote clock offset: 0.243 ms

Run 3: Report of Vivace-loss — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Vivace-loss

Start at: 2018-02-02 23:09:49

End at: 2018-02-02 23:10:19

Local clock offset: 0.312 ms

Remote clock offset: 0.433 ms

Below is generated by plot.py at 2018-02-03 05:20:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.23 Mbit/s

95th percentile per-packet one-way delay: 26.004 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 75.10 Mbit/s

95th percentile per-packet one-way delay: 25.510 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 26.179 ms

Loss rate: 0.10%

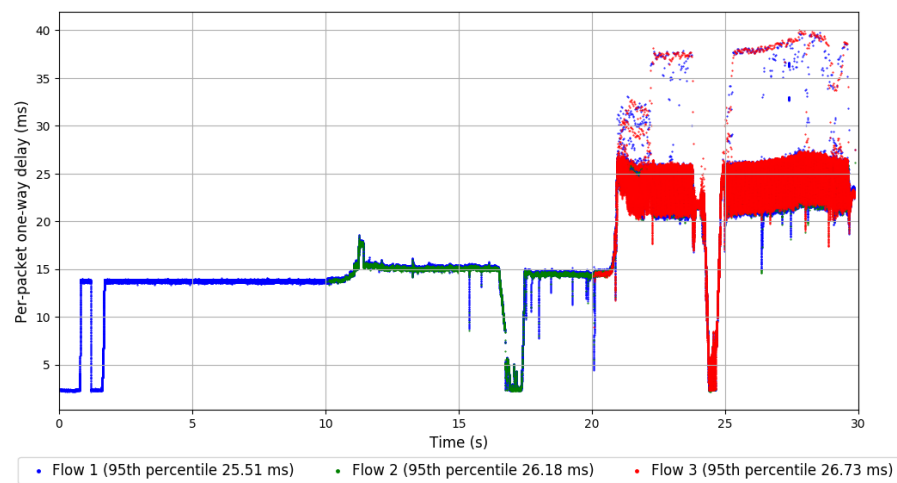
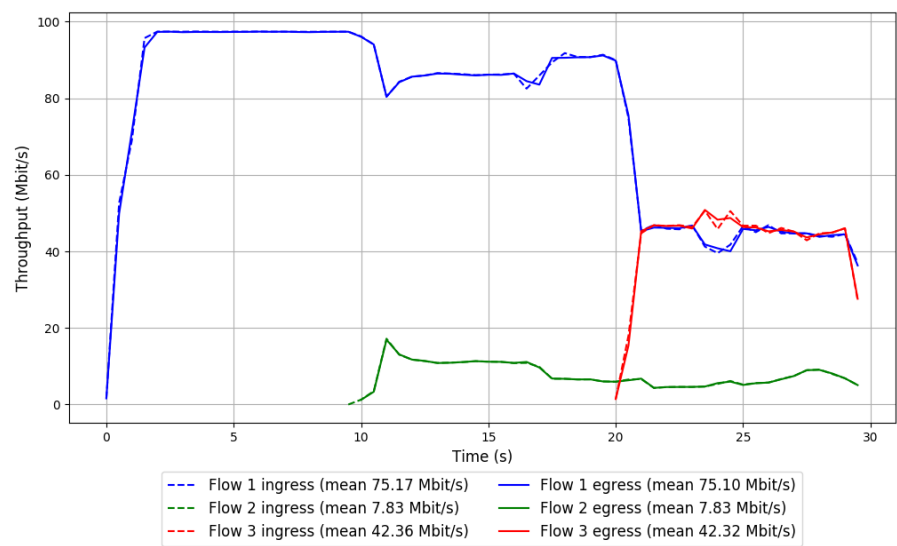
-- Flow 3:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 26.735 ms

Loss rate: 0.21%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-02 23:30:14

End at: 2018-02-02 23:30:44

Local clock offset: 0.218 ms

Remote clock offset: 0.79 ms

Below is generated by plot.py at 2018-02-03 05:20:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.79 Mbit/s

95th percentile per-packet one-way delay: 25.491 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 79.59 Mbit/s

95th percentile per-packet one-way delay: 25.191 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 25.551 ms

Loss rate: 0.24%

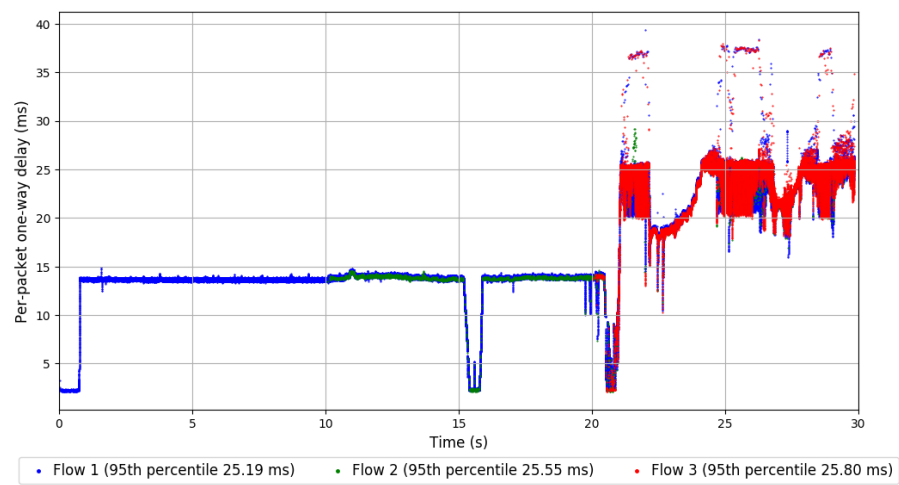
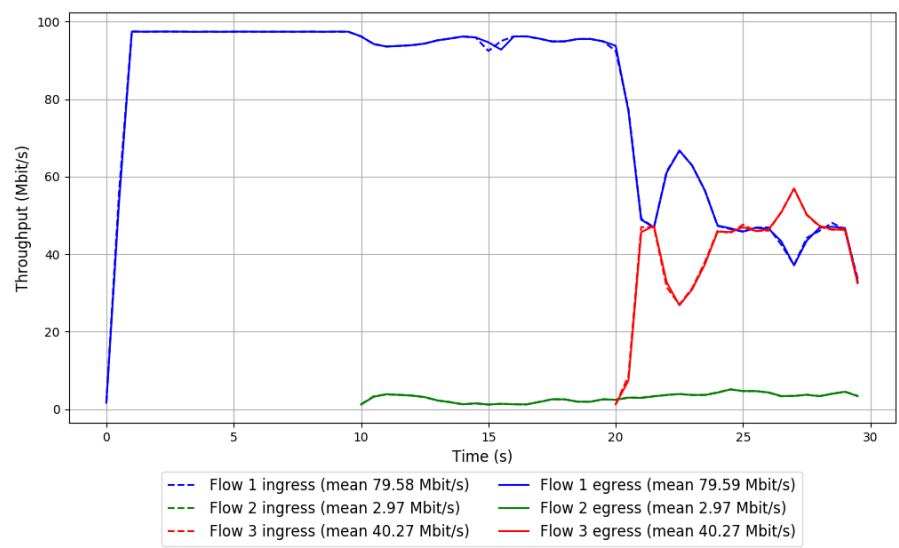
-- Flow 3:

Average throughput: 40.27 Mbit/s

95th percentile per-packet one-way delay: 25.803 ms

Loss rate: 0.28%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-02 23:50:40

End at: 2018-02-02 23:51:10

Local clock offset: 0.203 ms

Remote clock offset: 0.977 ms

Below is generated by plot.py at 2018-02-03 05:20:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 34.688 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 32.773 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 44.44 Mbit/s

95th percentile per-packet one-way delay: 35.117 ms

Loss rate: 0.12%

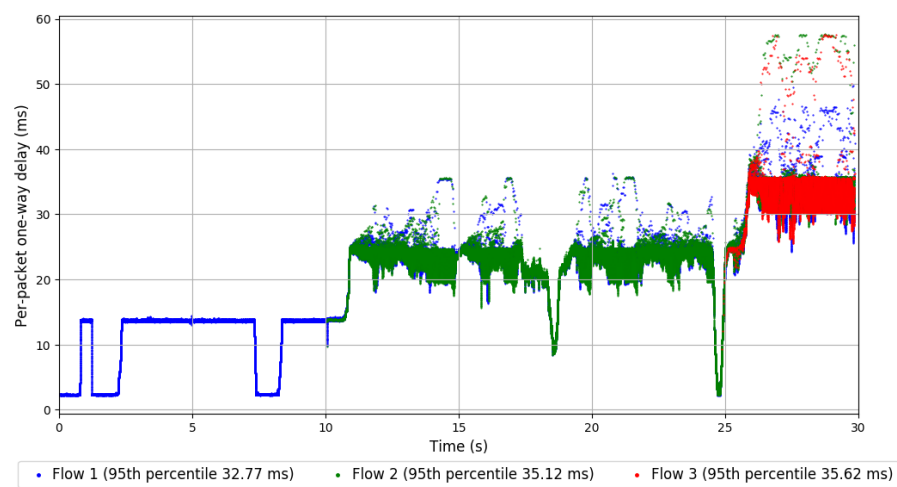
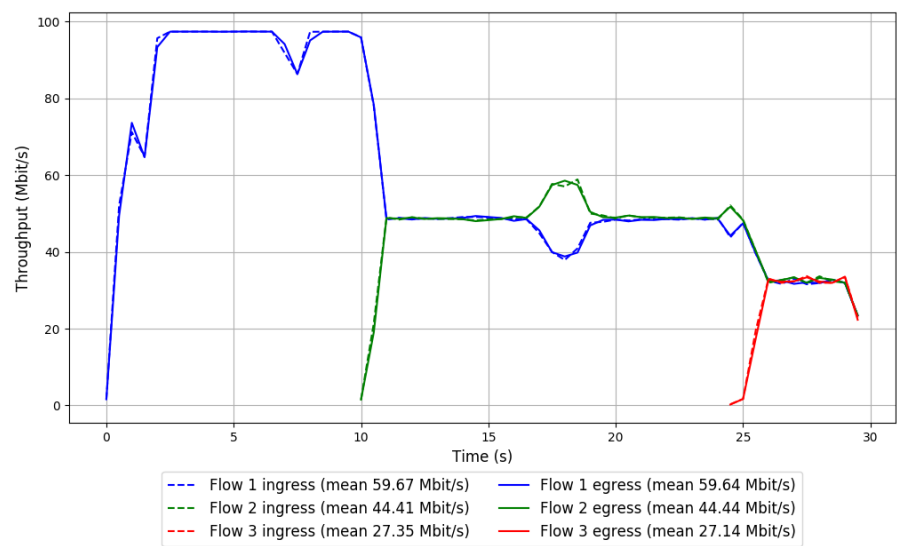
-- Flow 3:

Average throughput: 27.14 Mbit/s

95th percentile per-packet one-way delay: 35.621 ms

Loss rate: 0.97%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-03 00:10:58

End at: 2018-02-03 00:11:28

Local clock offset: 0.133 ms

Remote clock offset: 1.297 ms

Below is generated by plot.py at 2018-02-03 05:20:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.13 Mbit/s

95th percentile per-packet one-way delay: 25.141 ms

Loss rate: 5.77%

-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 24.910 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 69.98 Mbit/s

95th percentile per-packet one-way delay: 25.071 ms

Loss rate: 3.50%

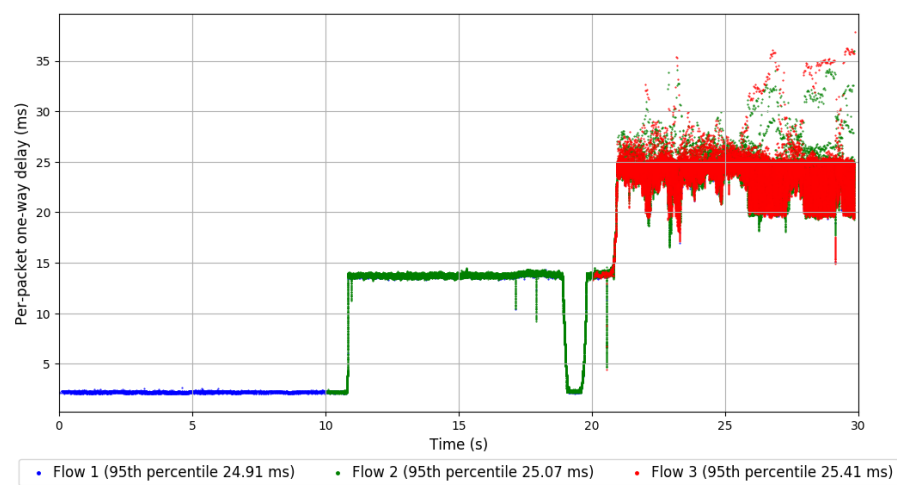
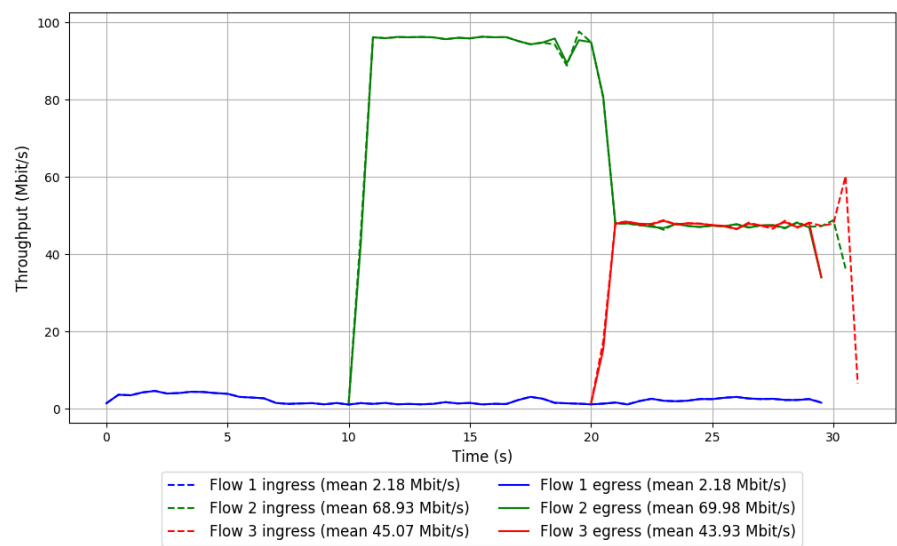
-- Flow 3:

Average throughput: 43.93 Mbit/s

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

Loss rate: 13.11%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-03 00:31:16

End at: 2018-02-03 00:31:46

Local clock offset: 0.104 ms

Remote clock offset: -18.971 ms

Below is generated by plot.py at 2018-02-03 05:20:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 62.70 Mbit/s

95th percentile per-packet one-way delay: 45.911 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 46.928 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 67.81 Mbit/s

95th percentile per-packet one-way delay: 45.581 ms

Loss rate: 0.09%

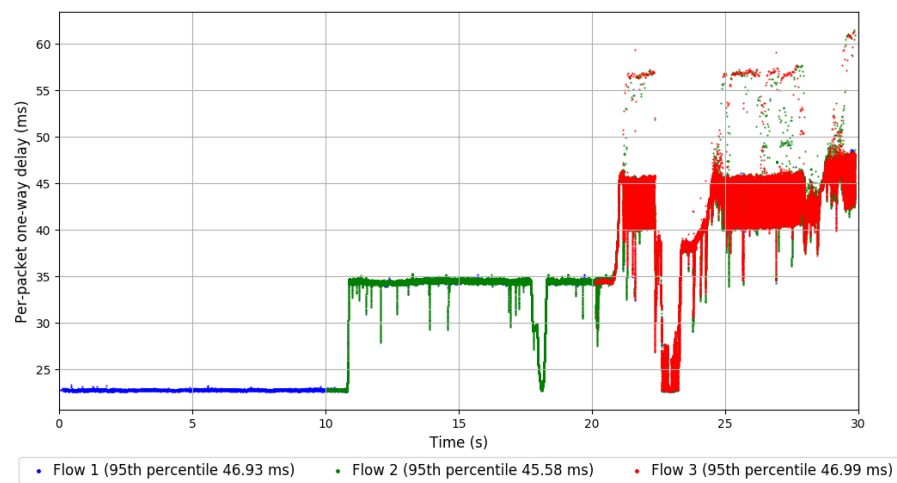
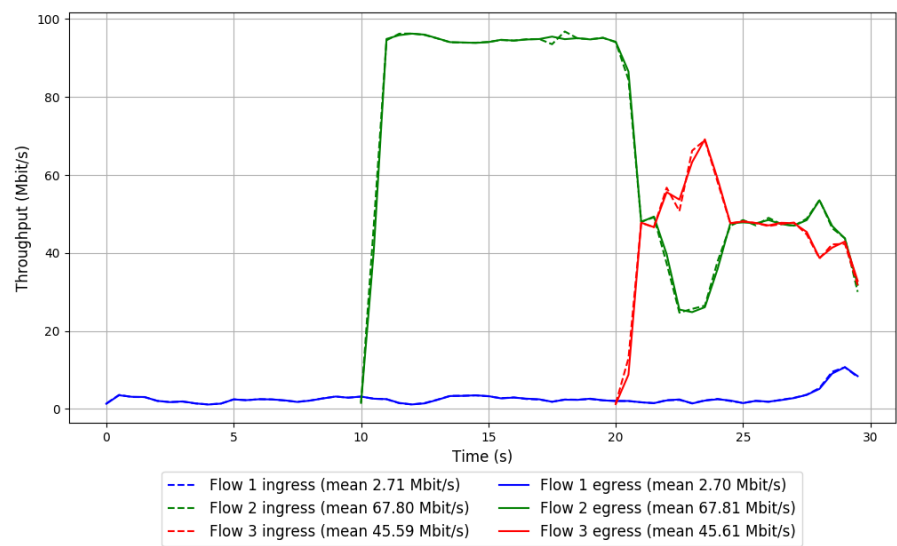
-- Flow 3:

Average throughput: 45.61 Mbit/s

95th percentile per-packet one-way delay: 46.993 ms

Loss rate: 0.26%

Run 8: Report of Vivace-loss — Data Link

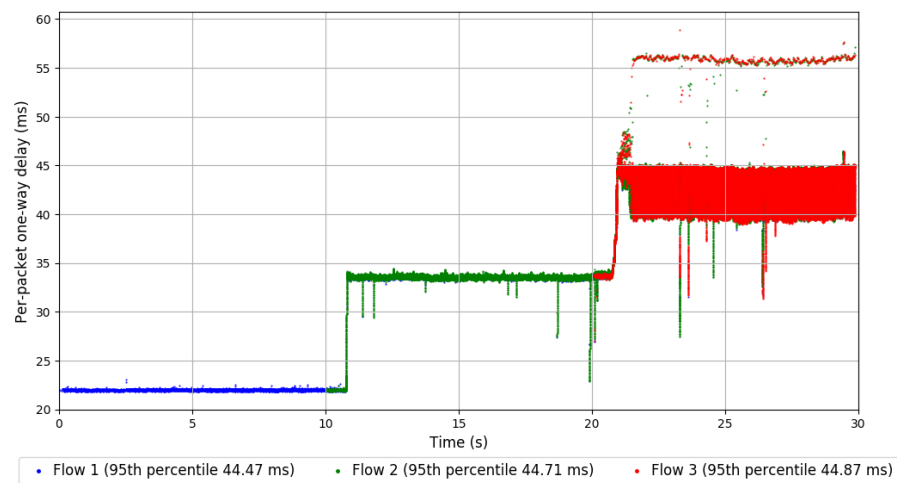
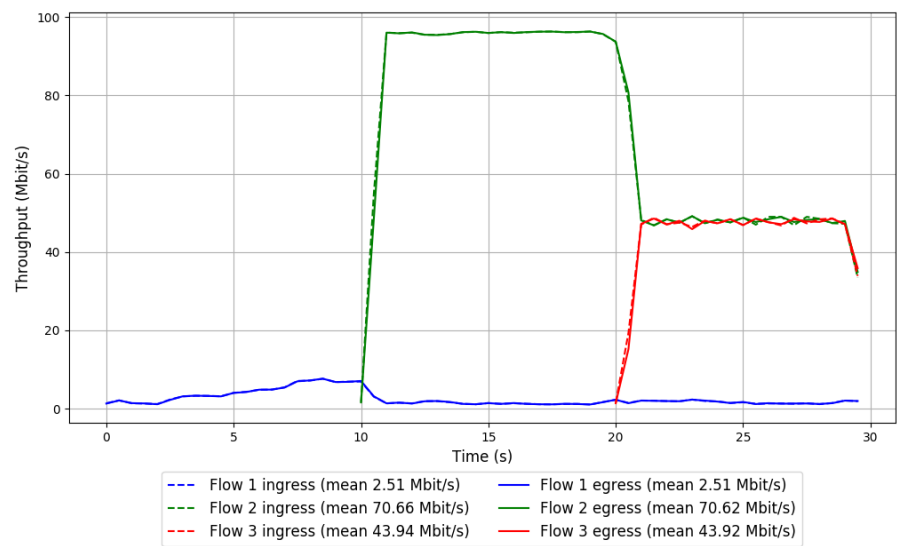


Run 9: Statistics of Vivace-loss

Start at: 2018-02-03 00:51:46
End at: 2018-02-03 00:52:16
Local clock offset: 0.147 ms
Remote clock offset: -18.312 ms

Below is generated by plot.py at 2018-02-03 05:20:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 63.91 Mbit/s
95th percentile per-packet one-way delay: 44.769 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 44.471 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 44.710 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 43.92 Mbit/s
95th percentile per-packet one-way delay: 44.868 ms
Loss rate: 0.32%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-03 01:12:09

End at: 2018-02-03 01:12:39

Local clock offset: 0.145 ms

Remote clock offset: 1.103 ms

Below is generated by plot.py at 2018-02-03 05:21:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 94.32 Mbit/s

95th percentile per-packet one-way delay: 35.203 ms

Loss rate: 1.70%

-- Flow 1:

Average throughput: 56.86 Mbit/s

95th percentile per-packet one-way delay: 34.427 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 35.433 ms

Loss rate: 2.63%

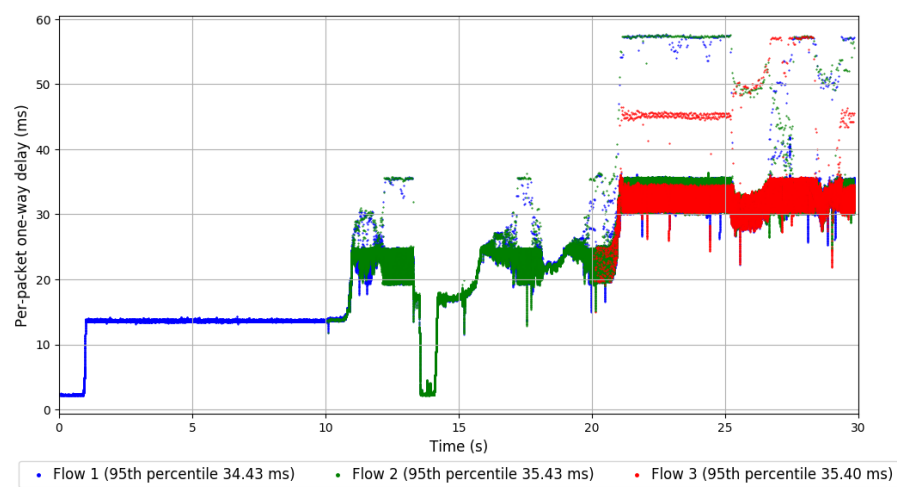
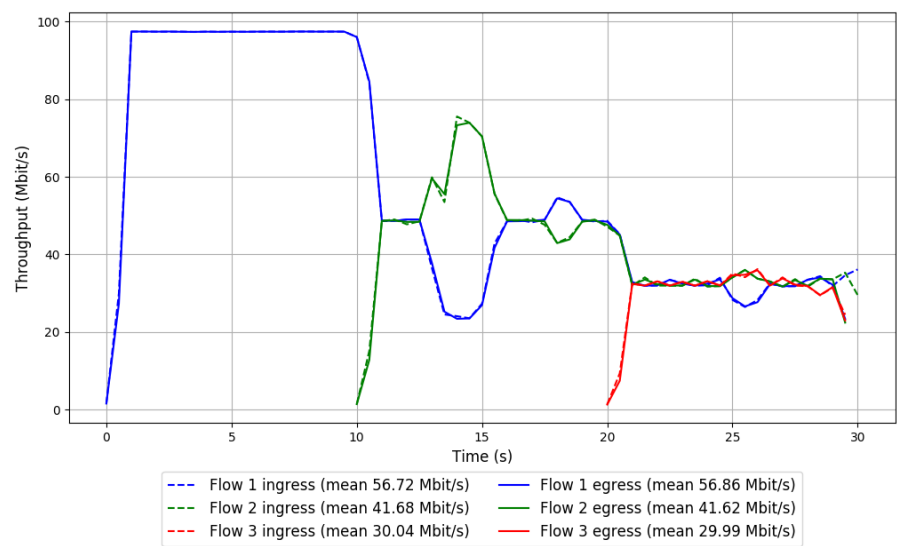
-- Flow 3:

Average throughput: 29.99 Mbit/s

95th percentile per-packet one-way delay: 35.403 ms

Loss rate: 0.57%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-02 22:15:44

End at: 2018-02-02 22:16:14

Local clock offset: 0.216 ms

Remote clock offset: 0.203 ms

Below is generated by plot.py at 2018-02-03 05:21:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.51 Mbit/s

95th percentile per-packet one-way delay: 31.564 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 61.28 Mbit/s

95th percentile per-packet one-way delay: 29.892 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 35.19 Mbit/s

95th percentile per-packet one-way delay: 32.273 ms

Loss rate: 0.09%

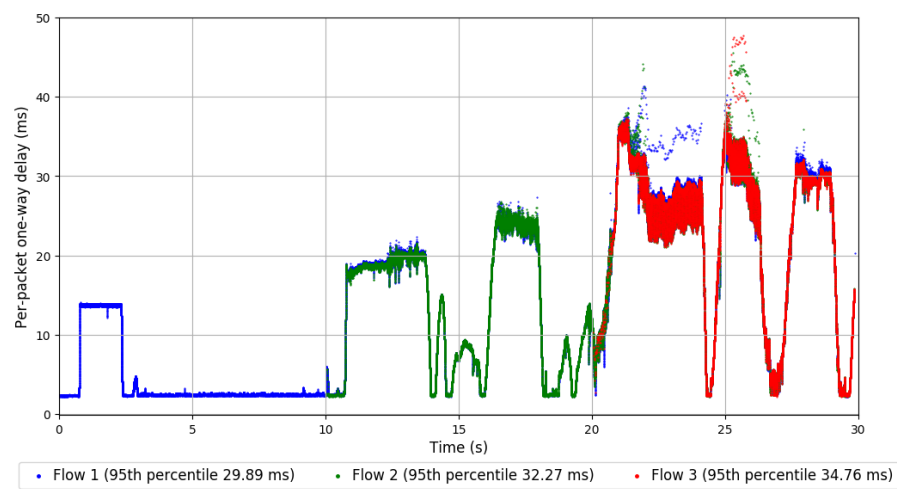
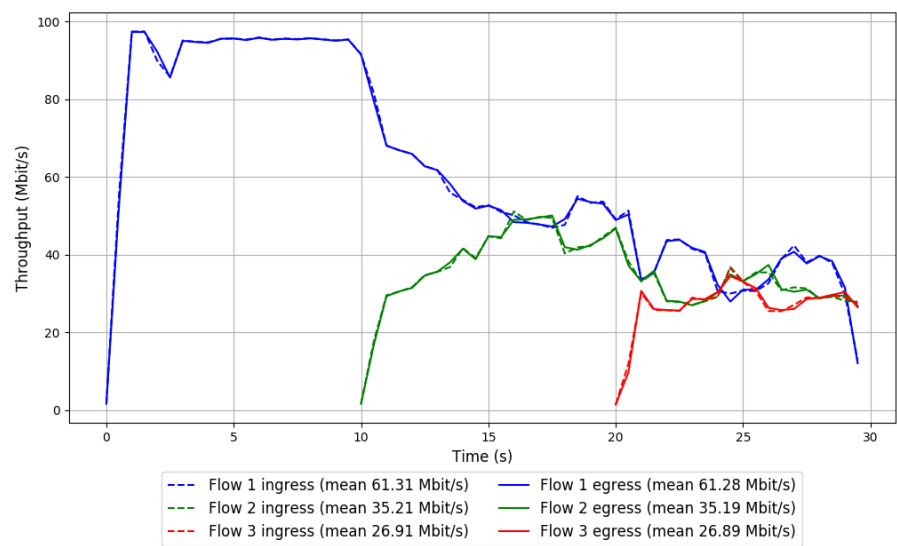
-- Flow 3:

Average throughput: 26.89 Mbit/s

95th percentile per-packet one-way delay: 34.762 ms

Loss rate: 0.22%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

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

End at: 2018-02-02 22:36:31

Local clock offset: 0.226 ms

Remote clock offset: 0.233 ms

Below is generated by plot.py at 2018-02-03 05:21:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.88 Mbit/s

95th percentile per-packet one-way delay: 31.539 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 58.81 Mbit/s

95th percentile per-packet one-way delay: 28.630 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 39.27 Mbit/s

95th percentile per-packet one-way delay: 32.337 ms

Loss rate: 0.02%

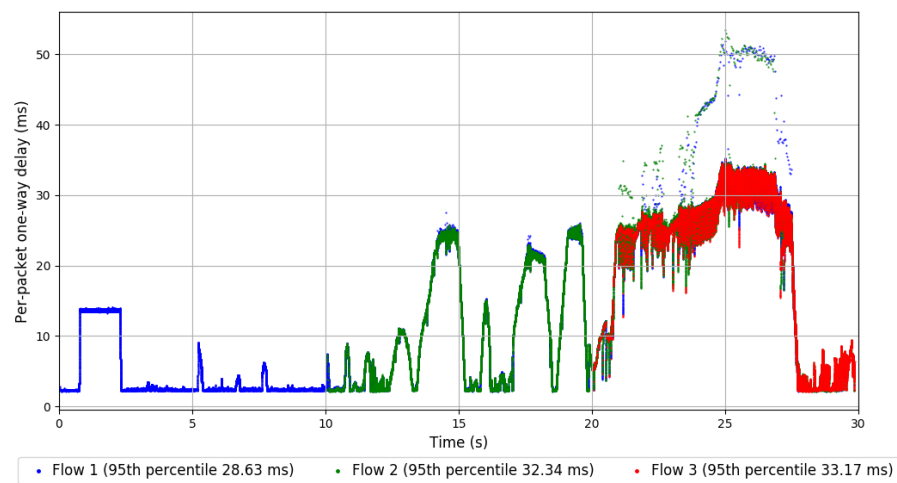
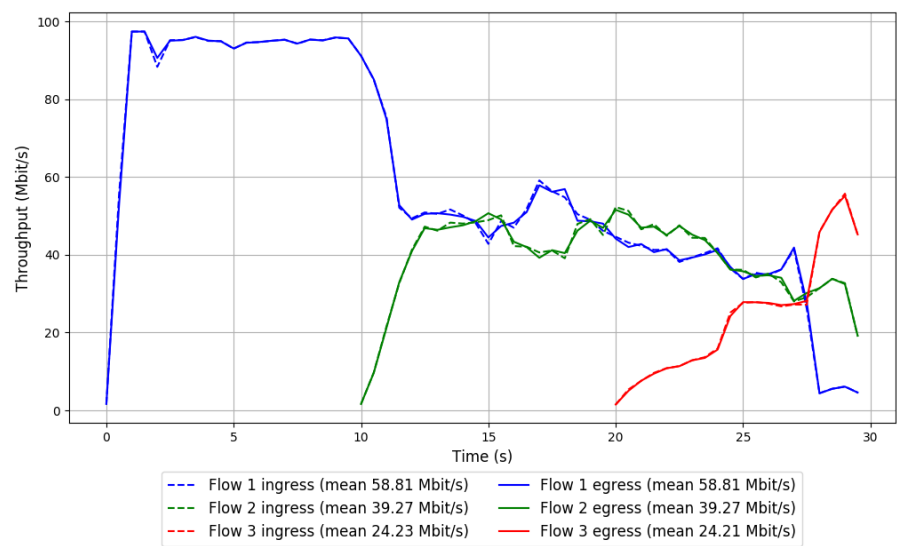
-- Flow 3:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 33.175 ms

Loss rate: 0.15%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-02 22:56:21

End at: 2018-02-02 22:56:51

Local clock offset: 0.314 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-02-03 05:21:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 14.637 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 8.851 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 11.701 ms

Loss rate: 0.03%

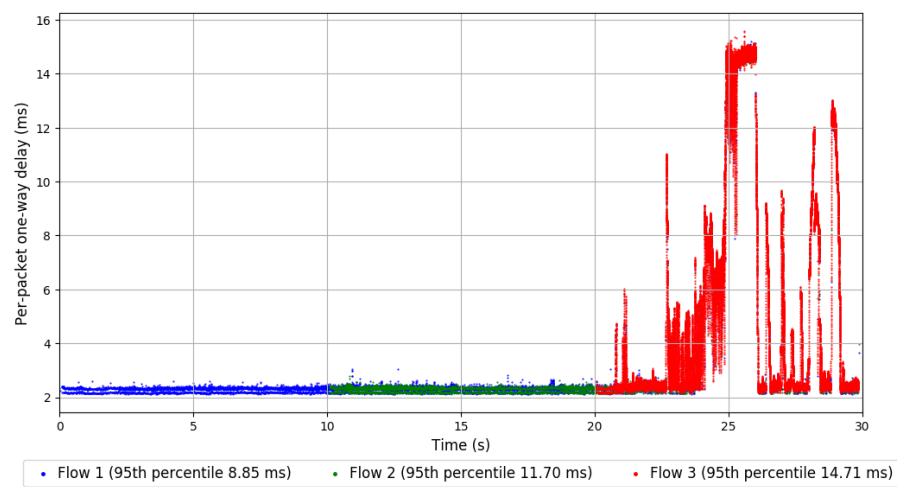
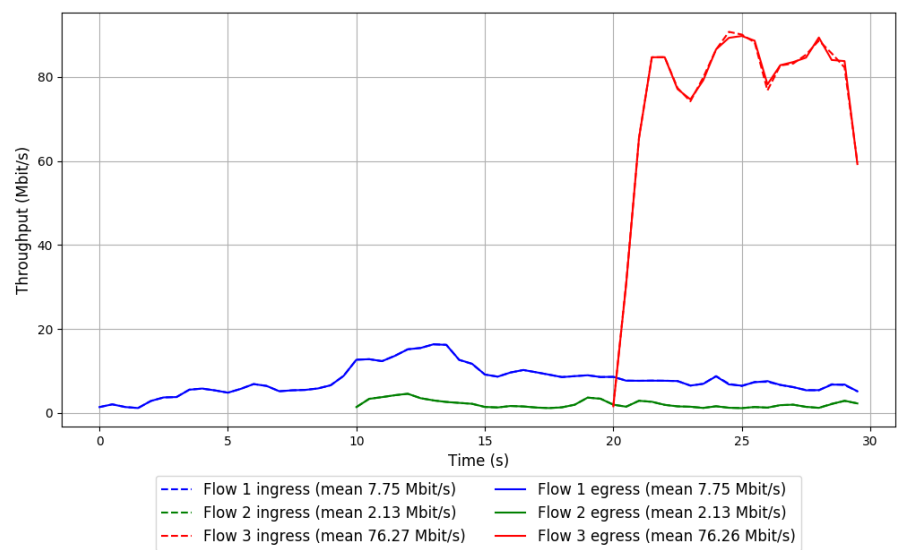
-- Flow 3:

Average throughput: 76.26 Mbit/s

95th percentile per-packet one-way delay: 14.705 ms

Loss rate: 0.05%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-02 23:16:41

End at: 2018-02-02 23:17:11

Local clock offset: 0.298 ms

Remote clock offset: 0.578 ms

Below is generated by plot.py at 2018-02-03 05:21:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 22.160 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 75.31 Mbit/s

95th percentile per-packet one-way delay: 21.997 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 22.469 ms

Loss rate: 0.02%

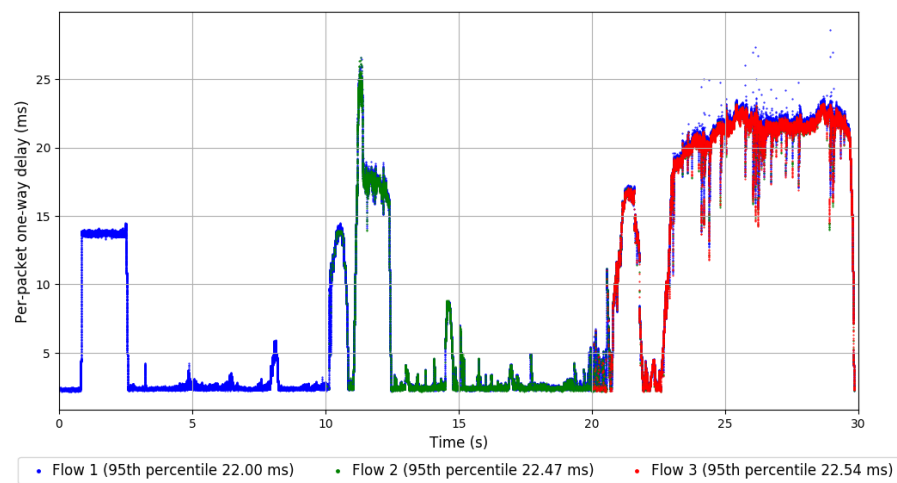
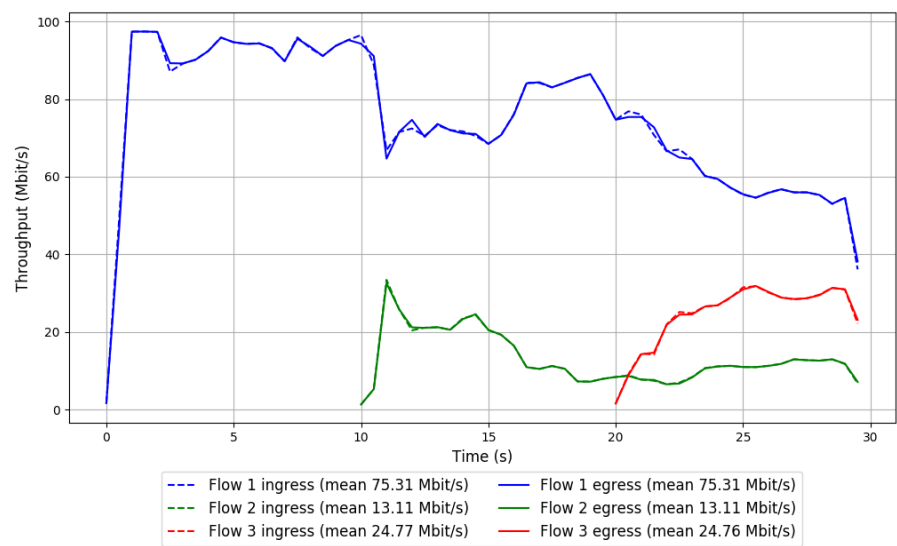
-- Flow 3:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 22.540 ms

Loss rate: 0.06%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-02 23:37:08

End at: 2018-02-02 23:37:38

Local clock offset: 0.219 ms

Remote clock offset: 0.864 ms

Below is generated by plot.py at 2018-02-03 05:22:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.81 Mbit/s

95th percentile per-packet one-way delay: 28.541 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 62.97 Mbit/s

95th percentile per-packet one-way delay: 27.578 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 35.69 Mbit/s

95th percentile per-packet one-way delay: 29.044 ms

Loss rate: 0.12%

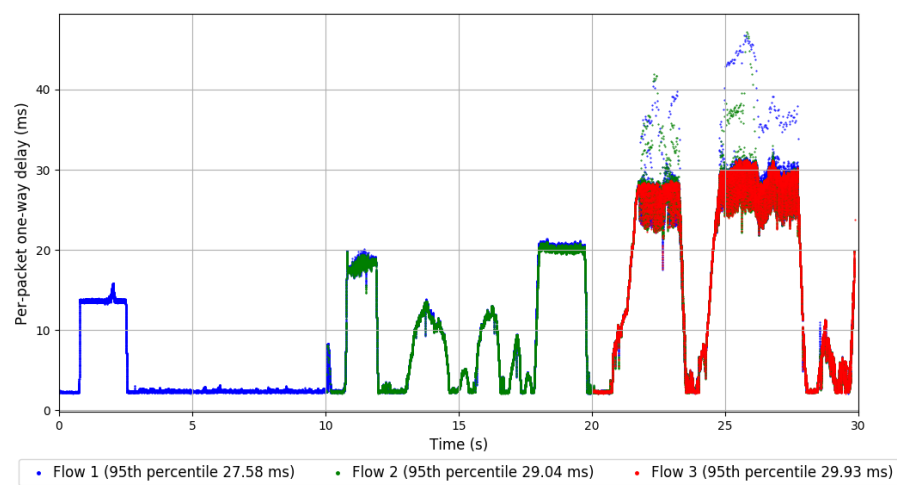
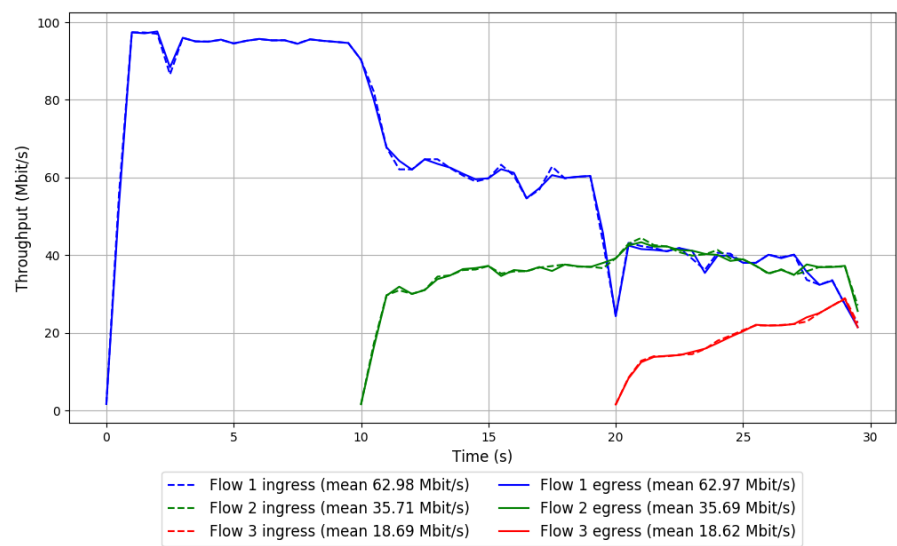
-- Flow 3:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 29.931 ms

Loss rate: 0.40%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-02 23:57:27

End at: 2018-02-02 23:57:57

Local clock offset: 0.2 ms

Remote clock offset: 1.089 ms

Below is generated by plot.py at 2018-02-03 05:22:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.38 Mbit/s

95th percentile per-packet one-way delay: 32.176 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 61.91 Mbit/s

95th percentile per-packet one-way delay: 30.363 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 34.26 Mbit/s

95th percentile per-packet one-way delay: 32.556 ms

Loss rate: 0.02%

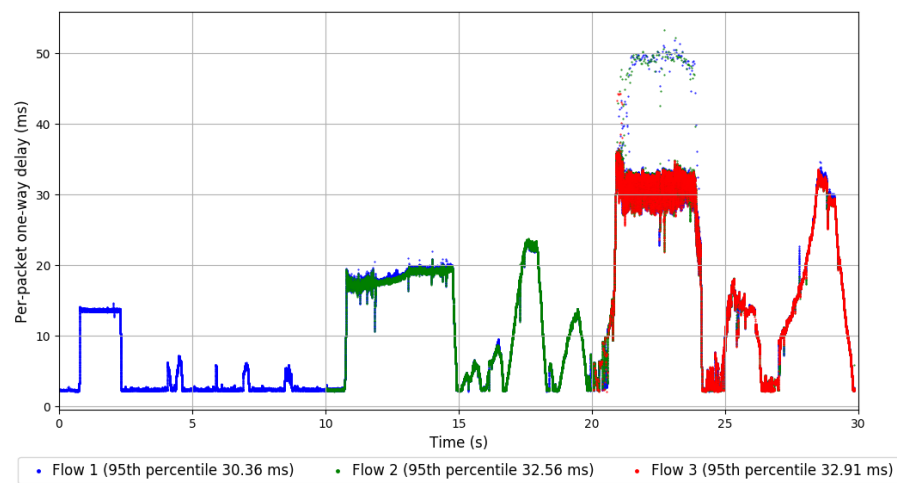
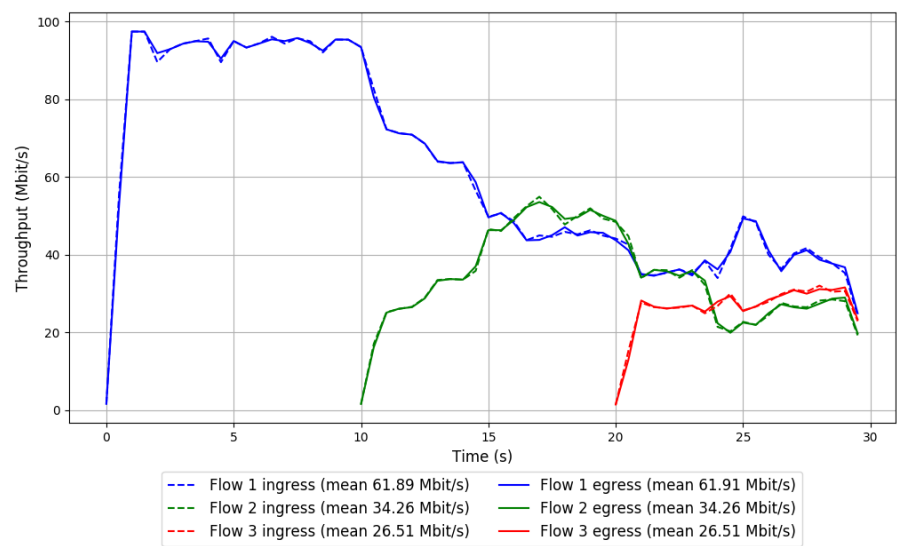
-- Flow 3:

Average throughput: 26.51 Mbit/s

95th percentile per-packet one-way delay: 32.906 ms

Loss rate: 0.07%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-03 00:17:46

End at: 2018-02-03 00:18:16

Local clock offset: 0.196 ms

Remote clock offset: 1.381 ms

Below is generated by plot.py at 2018-02-03 05:22:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 31.821 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 61.57 Mbit/s

95th percentile per-packet one-way delay: 28.825 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 33.61 Mbit/s

95th percentile per-packet one-way delay: 32.335 ms

Loss rate: 0.19%

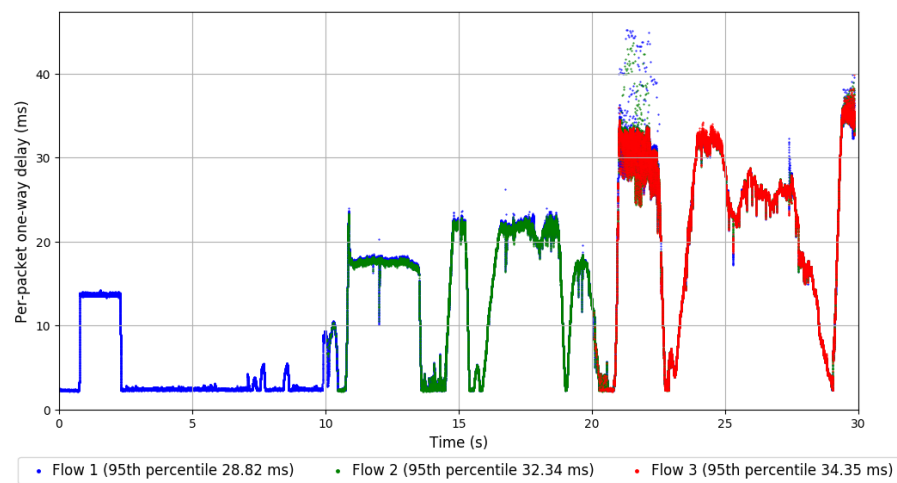
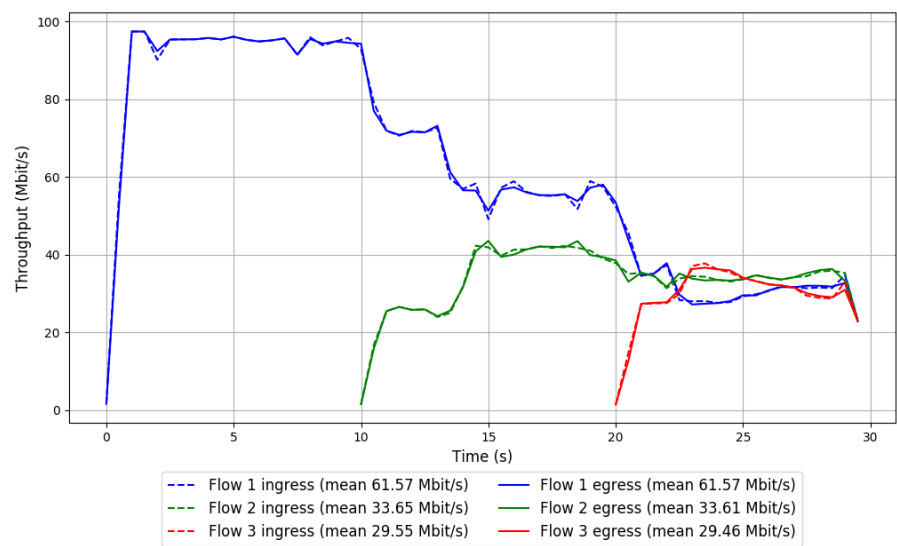
-- Flow 3:

Average throughput: 29.46 Mbit/s

95th percentile per-packet one-way delay: 34.349 ms

Loss rate: 0.45%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-03 00:38:07

End at: 2018-02-03 00:38:37

Local clock offset: 0.218 ms

Remote clock offset: 1.225 ms

Below is generated by plot.py at 2018-02-03 05:22:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 34.431 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 63.56 Mbit/s

95th percentile per-packet one-way delay: 32.524 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 31.18 Mbit/s

95th percentile per-packet one-way delay: 35.077 ms

Loss rate: 0.13%

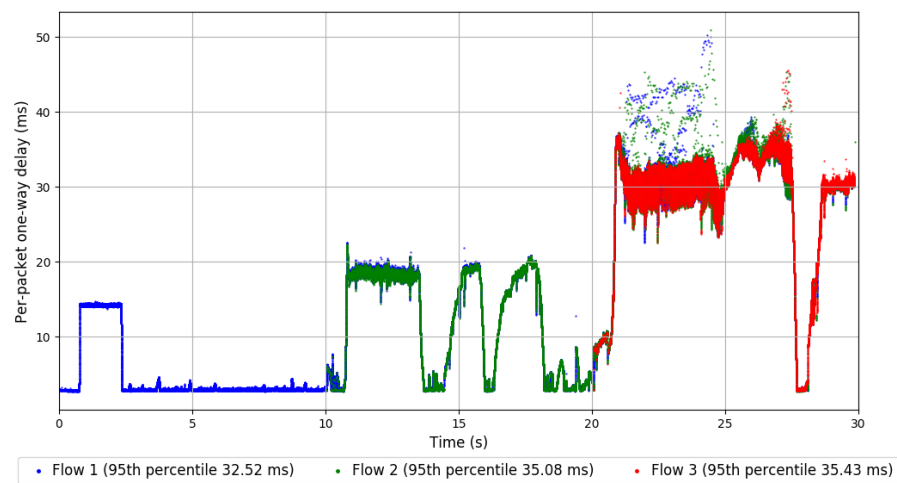
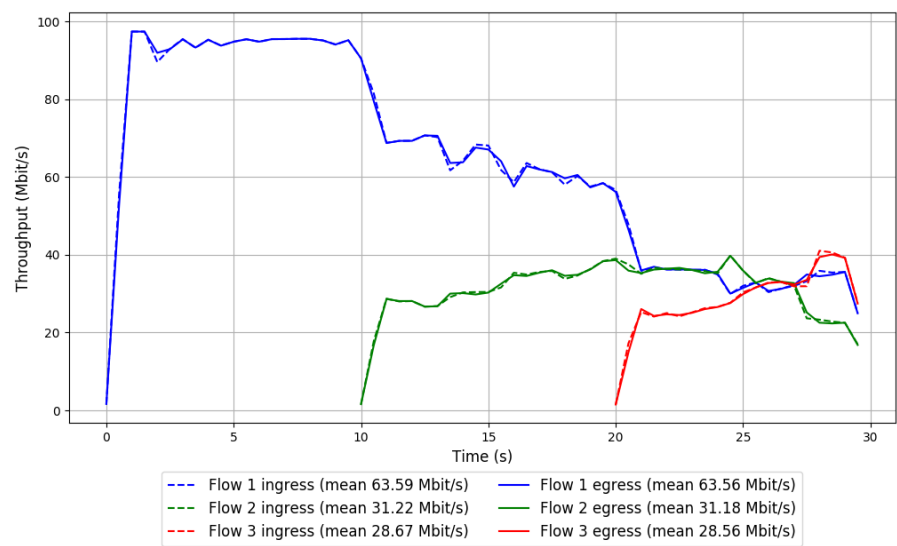
-- Flow 3:

Average throughput: 28.56 Mbit/s

95th percentile per-packet one-way delay: 35.428 ms

Loss rate: 0.45%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-03 00:58:38

End at: 2018-02-03 00:59:08

Local clock offset: 0.192 ms

Remote clock offset: 1.234 ms

Below is generated by plot.py at 2018-02-03 05:22:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.90 Mbit/s

95th percentile per-packet one-way delay: 28.785 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 61.47 Mbit/s

95th percentile per-packet one-way delay: 27.589 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 32.99 Mbit/s

95th percentile per-packet one-way delay: 29.068 ms

Loss rate: 0.09%

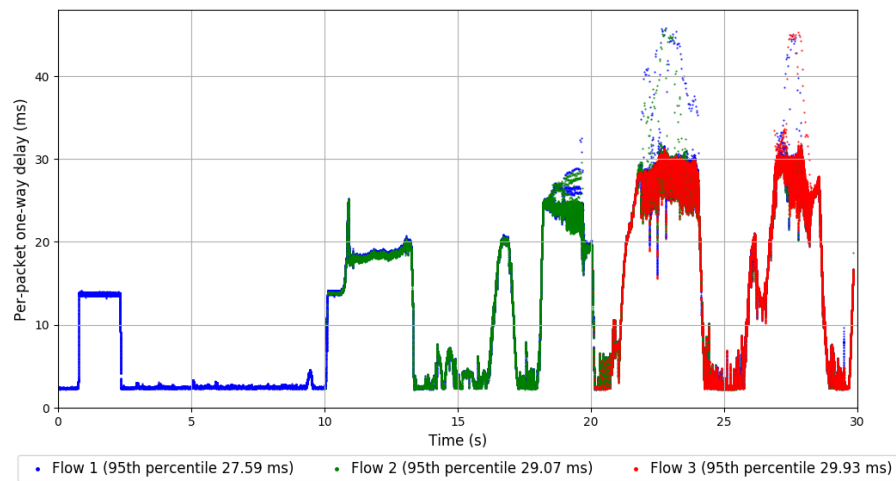
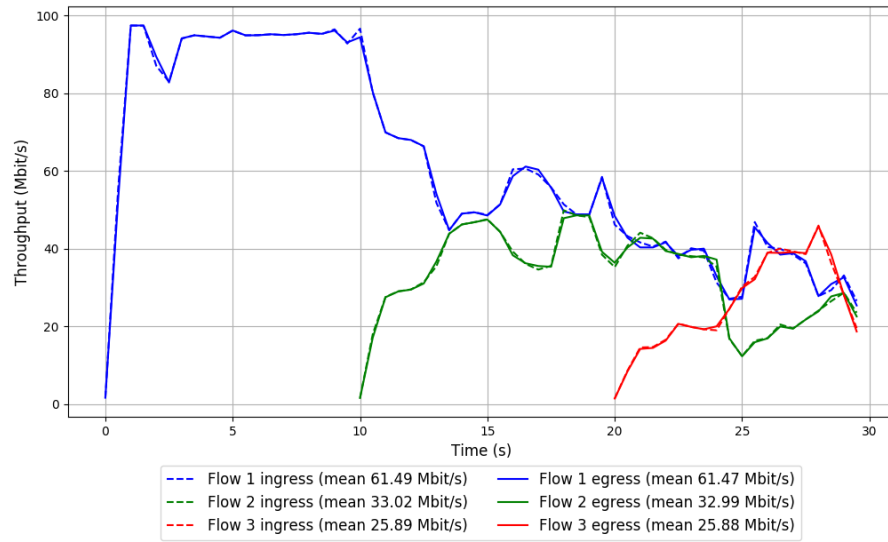
-- Flow 3:

Average throughput: 25.88 Mbit/s

95th percentile per-packet one-way delay: 29.932 ms

Loss rate: 0.21%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-03 01:19:04

End at: 2018-02-03 01:19:34

Local clock offset: 0.09 ms

Remote clock offset: 1.052 ms

Below is generated by plot.py at 2018-02-03 05:22:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.94 Mbit/s

95th percentile per-packet one-way delay: 32.523 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 60.53 Mbit/s

95th percentile per-packet one-way delay: 30.899 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 36.44 Mbit/s

95th percentile per-packet one-way delay: 32.836 ms

Loss rate: 0.04%

-- Flow 3:

Average throughput: 28.02 Mbit/s

95th percentile per-packet one-way delay: 34.633 ms

Loss rate: 0.12%

Run 10: Report of Vivace-LTE — Data Link

