

Pantheon Report

Generated at 2018-01-26 16:57:57 (UTC).

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

Repeated the test of 15 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).

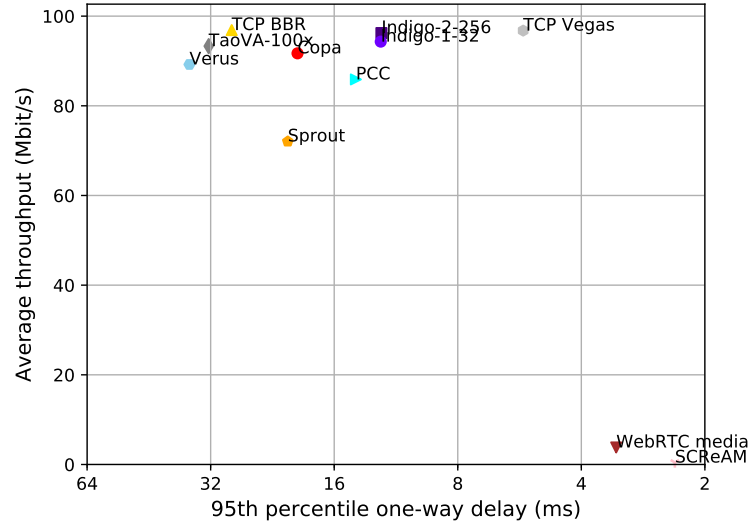
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

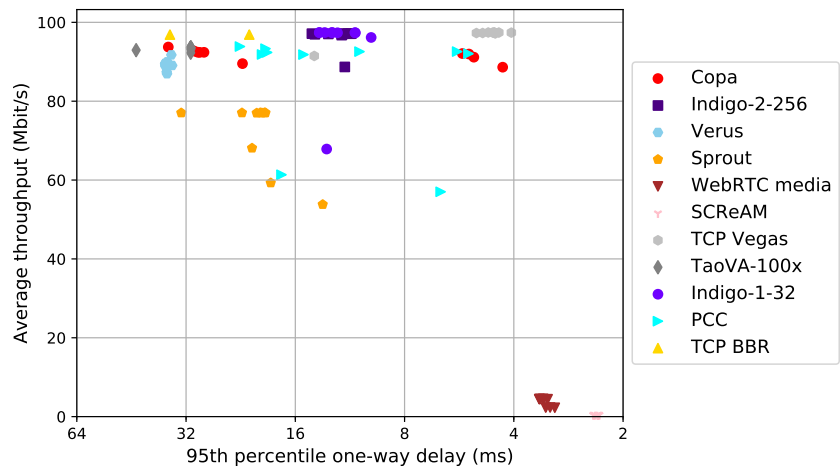
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
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



[illegible]

Run 1: Statistics of TCP BBR

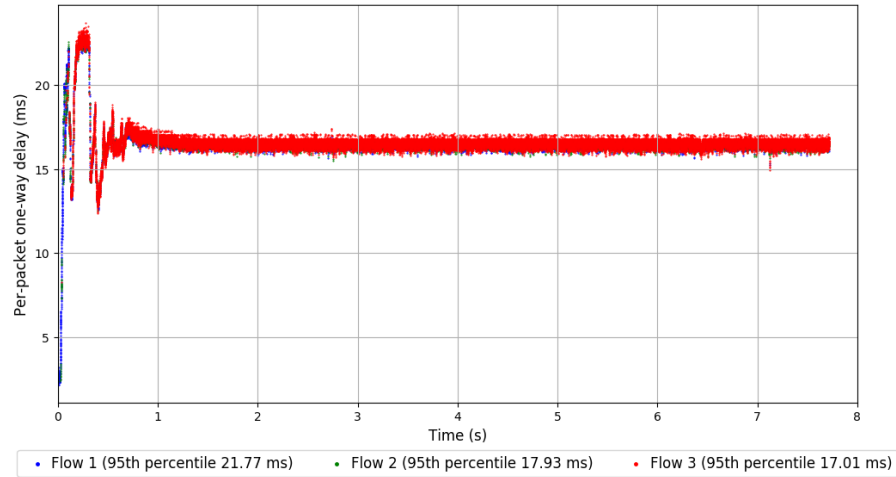
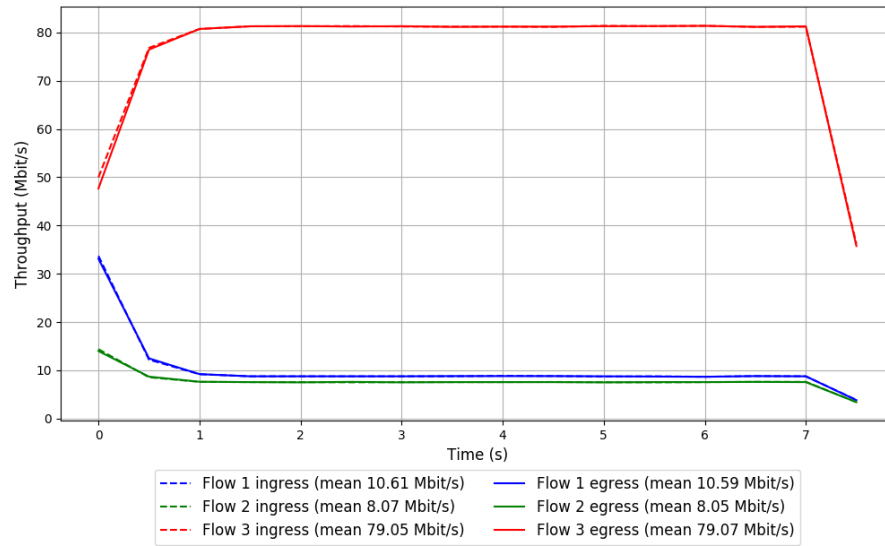
Start at: 2018-01-26 10:39:31

End at: 2018-01-26 10:40:01

Local clock offset: -0.107 ms

Remote clock offset: 0.221 ms

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

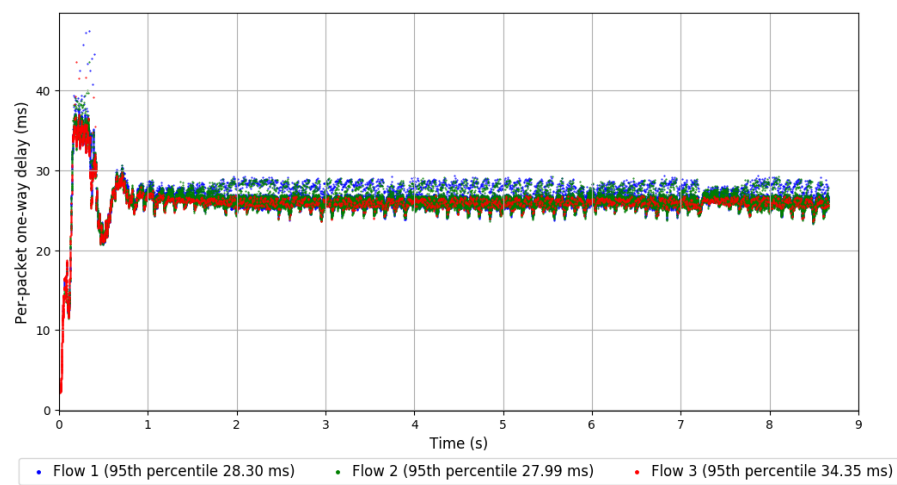
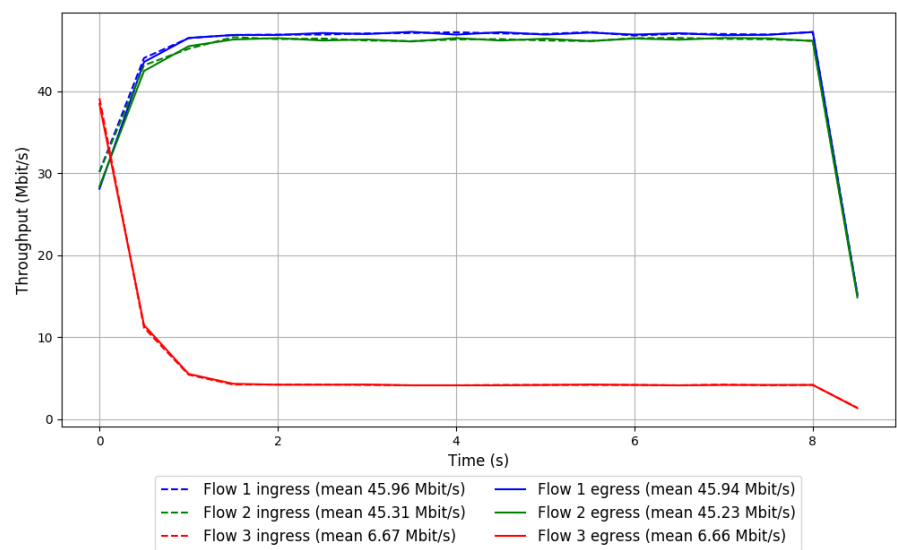
Start at: 2018-01-26 10:57:33

End at: 2018-01-26 10:58:03

Local clock offset: -0.119 ms

Remote clock offset: 0.397 ms

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

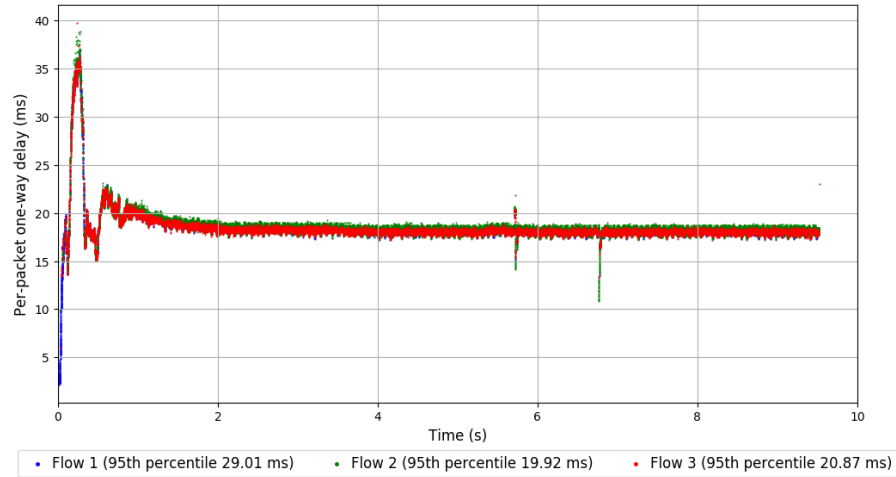
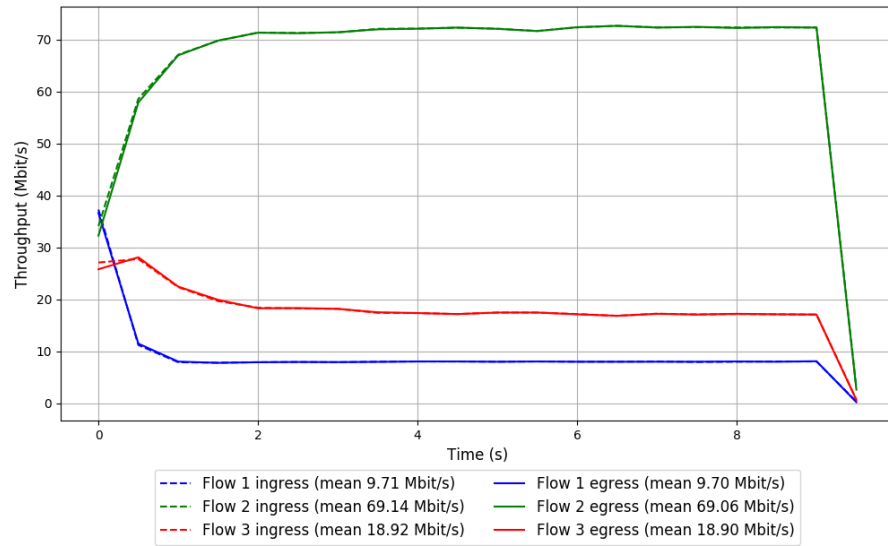
Start at: 2018-01-26 11:15:37

End at: 2018-01-26 11:16:07

Local clock offset: -0.103 ms

Remote clock offset: 0.62 ms

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

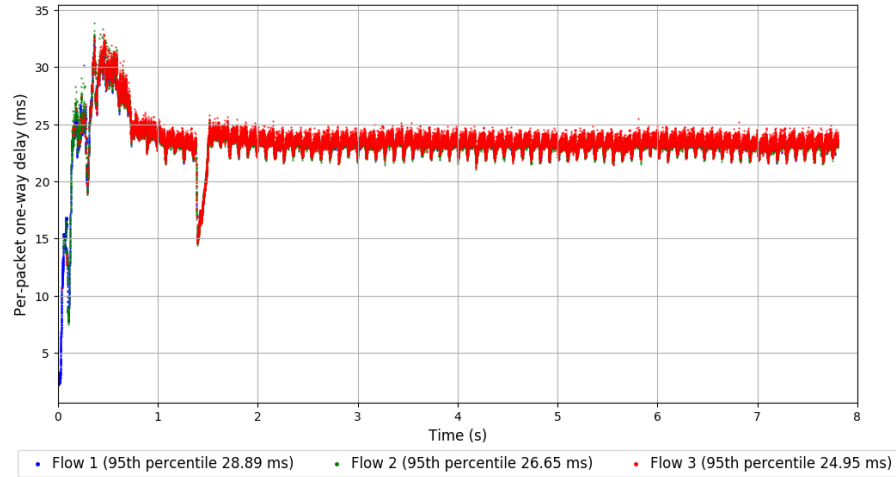
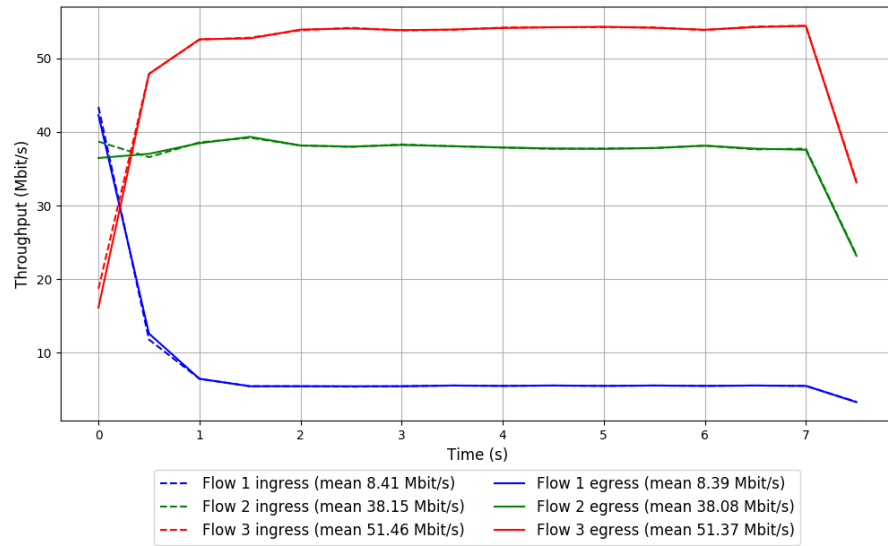
Start at: 2018-01-26 11:33:41

End at: 2018-01-26 11:34:11

Local clock offset: -0.159 ms

Remote clock offset: 0.729 ms

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

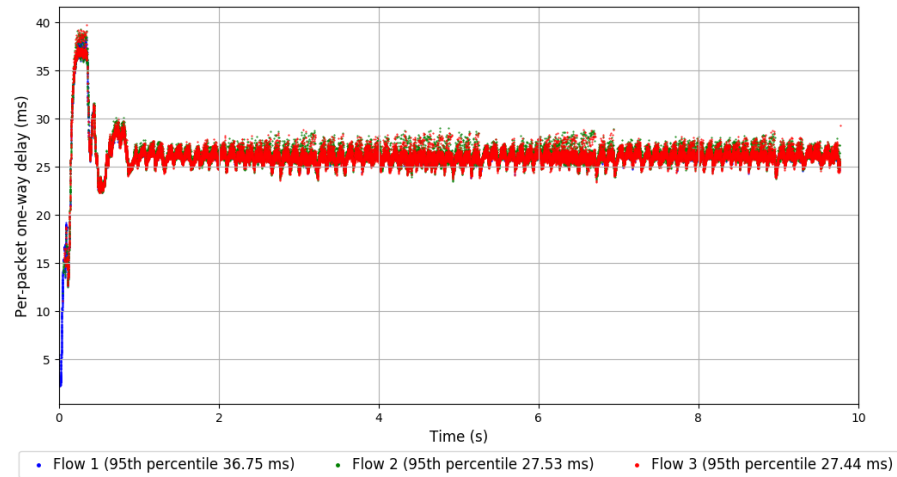
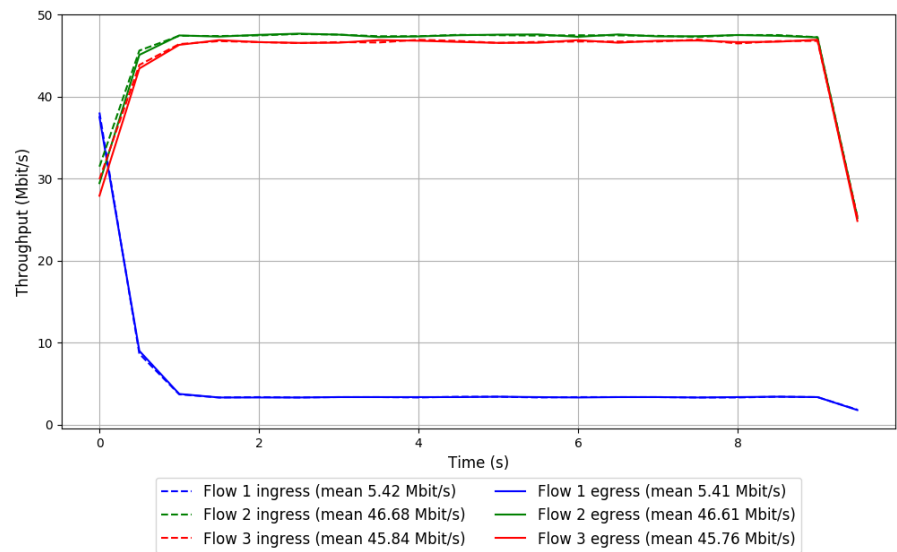
Start at: 2018-01-26 11:51:45

End at: 2018-01-26 11:52:15

Local clock offset: -0.109 ms

Remote clock offset: 0.774 ms

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

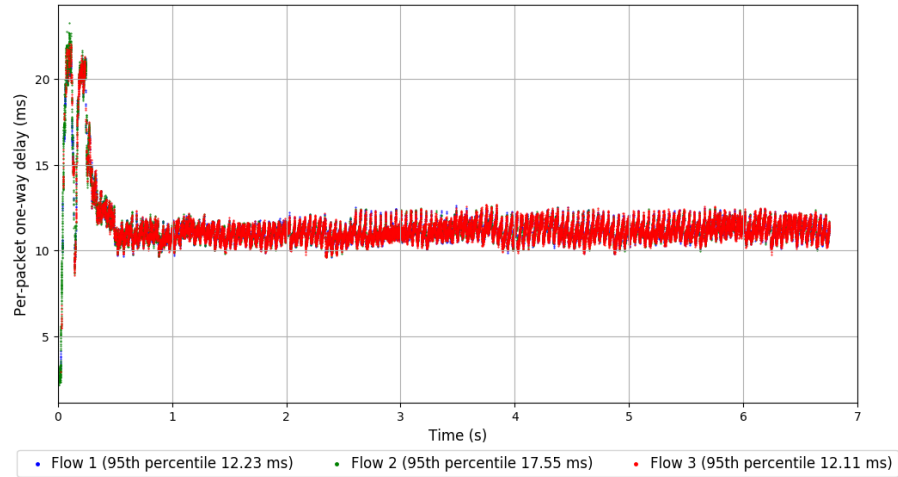
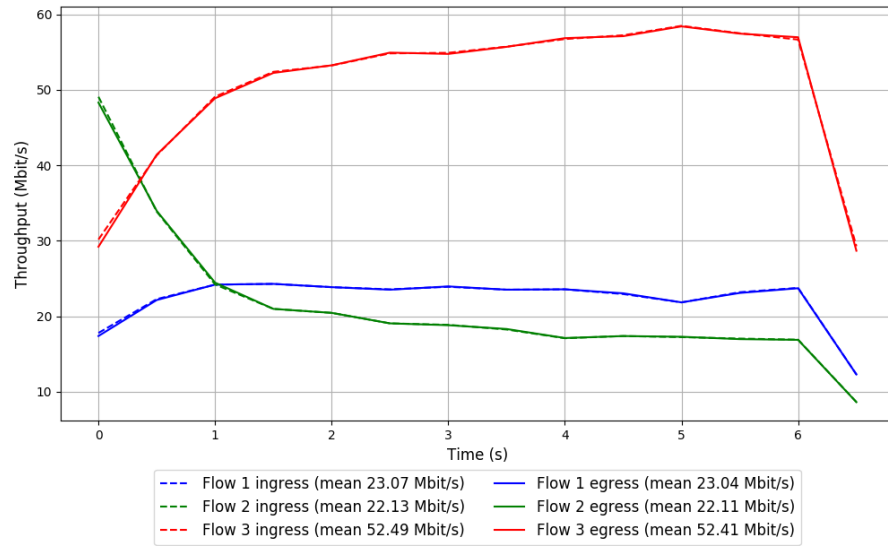
Start at: 2018-01-26 12:09:49

End at: 2018-01-26 12:10:19

Local clock offset: -0.074 ms

Remote clock offset: 0.778 ms

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

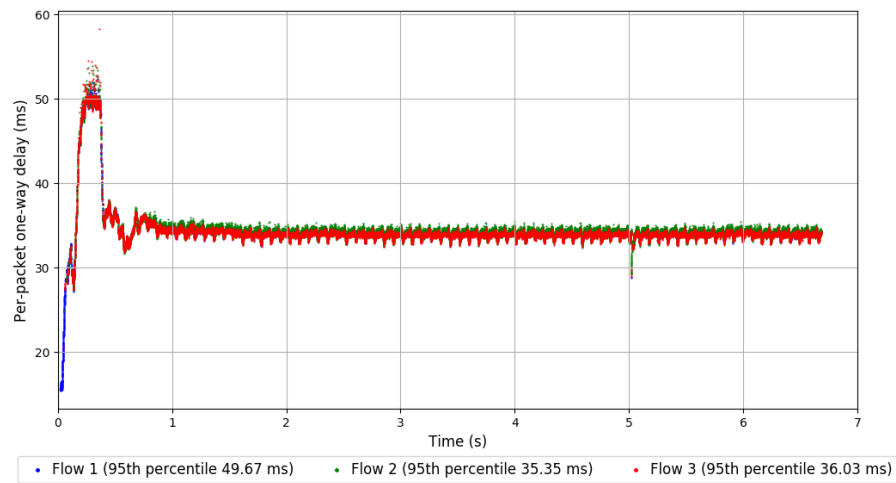
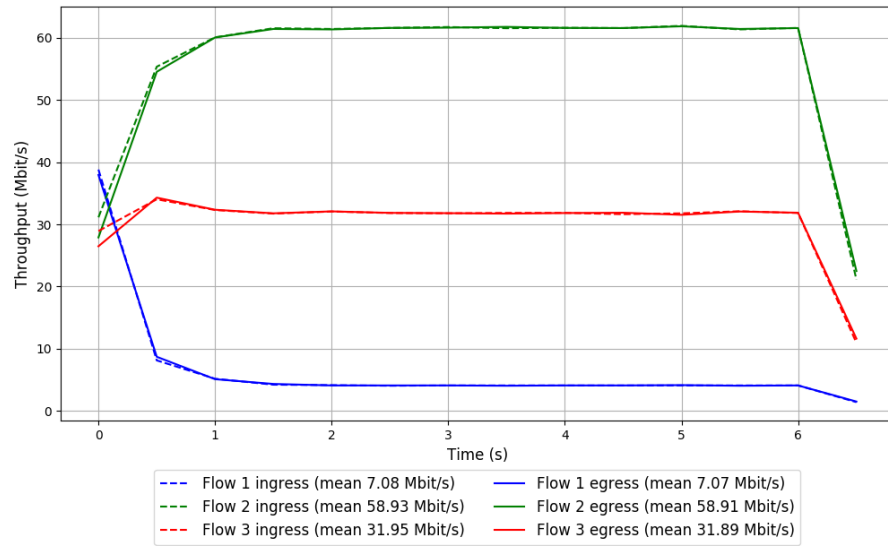
Start at: 2018-01-26 12:27:52

End at: 2018-01-26 12:28:22

Local clock offset: -0.101 ms

Remote clock offset: -12.612 ms

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 12:45:56

End at: 2018-01-26 12:46:26

Local clock offset: -0.034 ms

Remote clock offset: 0.433 ms

Below is generated by plot.py at 2018-01-26 16:41:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.89 Mbit/s

95th percentile per-packet one-way delay: 21.425 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 45.69 Mbit/s

95th percentile per-packet one-way delay: 21.160 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 71.52 Mbit/s

95th percentile per-packet one-way delay: 21.577 ms

Loss rate: 0.10%

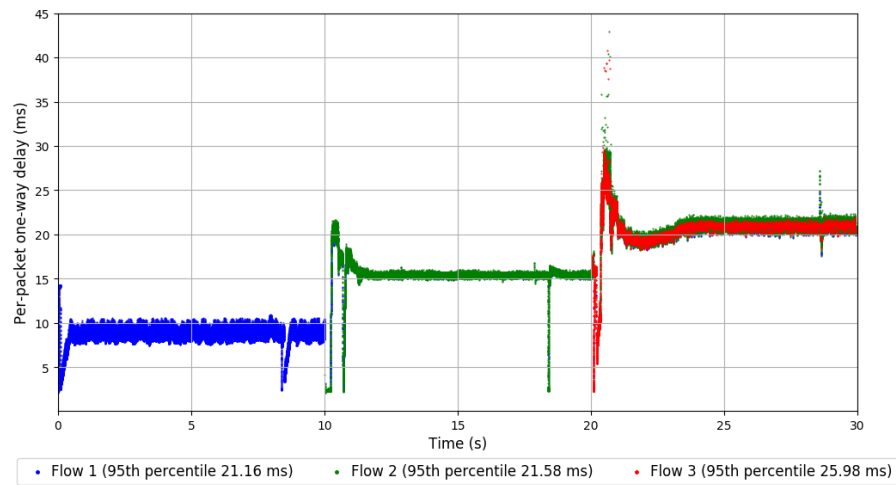
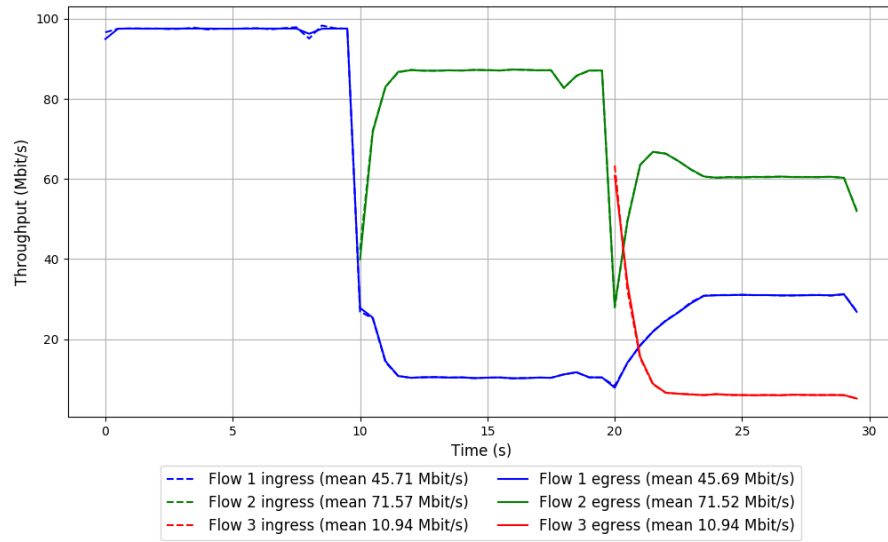
-- Flow 3:

Average throughput: 10.94 Mbit/s

95th percentile per-packet one-way delay: 25.978 ms

Loss rate: 0.13%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

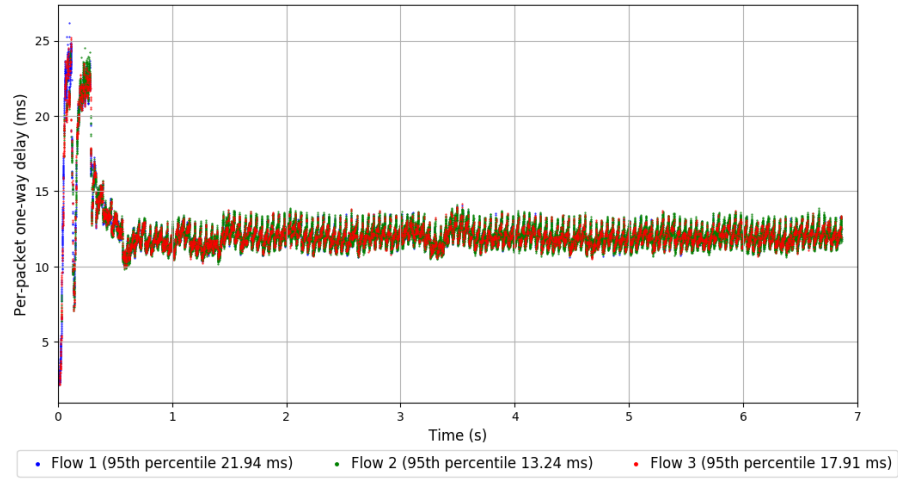
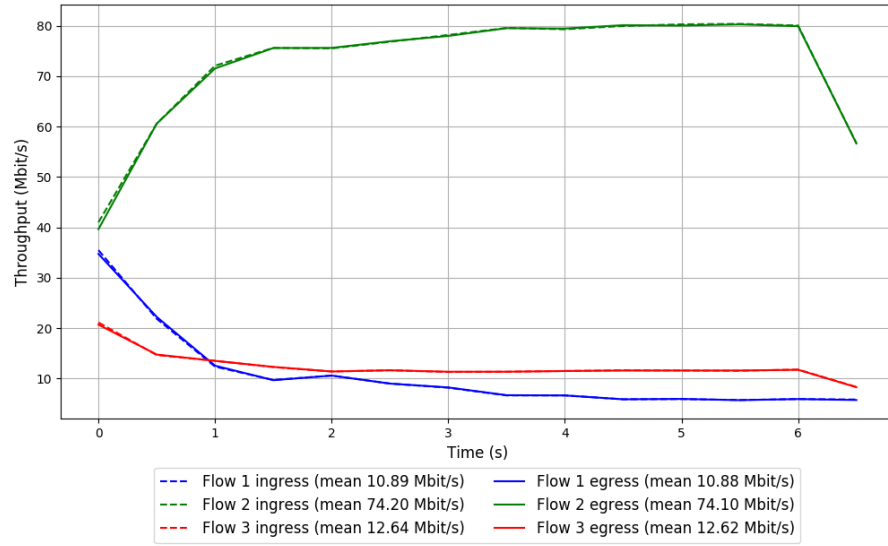
Start at: 2018-01-26 13:03:59

End at: 2018-01-26 13:04:29

Local clock offset: 0.039 ms

Remote clock offset: 0.238 ms

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 13:22:01

End at: 2018-01-26 13:22:31

Local clock offset: 0.129 ms

Remote clock offset: 0.1 ms

Below is generated by plot.py at 2018-01-26 16:41:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.89 Mbit/s

95th percentile per-packet one-way delay: 35.446 ms

Loss rate: 0.23%

-- Flow 1:

Average throughput: 45.85 Mbit/s

95th percentile per-packet one-way delay: 34.742 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 59.07 Mbit/s

95th percentile per-packet one-way delay: 35.634 ms

Loss rate: 0.36%

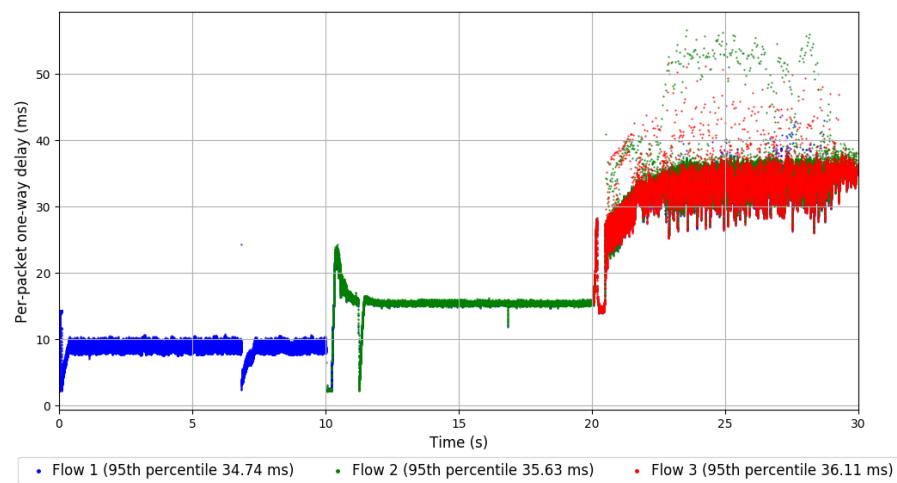
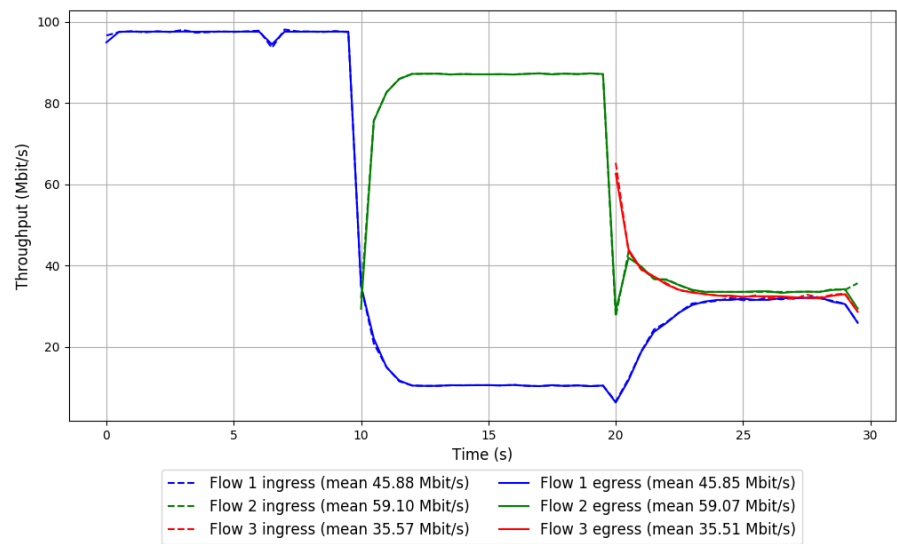
-- Flow 3:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 36.110 ms

Loss rate: 0.37%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 10:36:06

End at: 2018-01-26 10:36:36

Local clock offset: -0.168 ms

Remote clock offset: 0.222 ms

Run 1: Report of TCP Cubic — Data Link

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Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 10:54:08

End at: 2018-01-26 10:54:38

Local clock offset: -0.179 ms

Remote clock offset: 0.308 ms

Run 2: Report of TCP Cubic — Data Link

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Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 11:12:13

End at: 2018-01-26 11:12:43

Local clock offset: -0.159 ms

Remote clock offset: 0.564 ms

Run 3: Report of TCP Cubic — Data Link

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Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 11:30:16

End at: 2018-01-26 11:30:46

Local clock offset: -0.096 ms

Remote clock offset: 0.78 ms

Run 4: Report of TCP Cubic — Data Link

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Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 11:48:20

End at: 2018-01-26 11:48:50

Local clock offset: -0.1 ms

Remote clock offset: 0.812 ms

Run 5: Report of TCP Cubic — Data Link

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Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 12:06:24

End at: 2018-01-26 12:06:54

Local clock offset: -0.096 ms

Remote clock offset: 0.79 ms

Run 6: Report of TCP Cubic — Data Link

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Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 12:24:28

End at: 2018-01-26 12:24:58

Local clock offset: -0.139 ms

Remote clock offset: 0.642 ms

Run 7: Report of TCP Cubic — Data Link

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Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 12:42:32

End at: 2018-01-26 12:43:02

Local clock offset: 0.008 ms

Remote clock offset: -16.069 ms

Run 8: Report of TCP Cubic — Data Link

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Figure is missing

Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 13:00:35

End at: 2018-01-26 13:01:05

Local clock offset: 0.074 ms

Remote clock offset: 0.262 ms

Run 9: Report of TCP Cubic — Data Link

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Figure is missing

Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 13:18:36

End at: 2018-01-26 13:19:06

Local clock offset: 0.123 ms

Remote clock offset: 0.054 ms

Run 10: Report of TCP Cubic — Data Link

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Run 1: Statistics of LEDBAT

Start at: 2018-01-26 10:37:13

End at: 2018-01-26 10:37:43

Local clock offset: -0.173 ms

Remote clock offset: 0.209 ms

Run 1: Report of LEDBAT — Data Link

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Figure is missing

Run 2: Statistics of LEDBAT

Start at: 2018-01-26 10:55:15

End at: 2018-01-26 10:55:45

Local clock offset: -0.106 ms

Remote clock offset: 0.364 ms

Run 2: Report of LEDBAT — Data Link

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Figure is missing

Run 3: Statistics of LEDBAT

Start at: 2018-01-26 11:13:20

End at: 2018-01-26 11:13:50

Local clock offset: -0.079 ms

Remote clock offset: 0.575 ms

Run 3: Report of LEDBAT — Data Link

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Figure is missing

Run 4: Statistics of LEDBAT

Start at: 2018-01-26 11:31:23

End at: 2018-01-26 11:31:53

Local clock offset: -0.098 ms

Remote clock offset: 0.792 ms

Run 4: Report of LEDBAT — Data Link

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Figure is missing

Run 5: Statistics of LEDBAT

Start at: 2018-01-26 11:49:27

End at: 2018-01-26 11:49:57

Local clock offset: -0.109 ms

Remote clock offset: 0.739 ms

Run 5: Report of LEDBAT — Data Link

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Figure is missing

Run 6: Statistics of LEDBAT

Start at: 2018-01-26 12:07:31

End at: 2018-01-26 12:08:01

Local clock offset: -0.088 ms

Remote clock offset: 0.788 ms

Run 6: Report of LEDBAT — Data Link

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Run 7: Statistics of LEDBAT

Start at: 2018-01-26 12:25:35

End at: 2018-01-26 12:26:05

Local clock offset: -0.055 ms

Remote clock offset: 0.629 ms

Run 7: Report of LEDBAT — Data Link

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Figure is missing

Run 8: Statistics of LEDBAT

Start at: 2018-01-26 12:43:39

End at: 2018-01-26 12:44:09

Local clock offset: -0.002 ms

Remote clock offset: 0.453 ms

Run 8: Report of LEDBAT — Data Link

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Run 9: Statistics of LEDBAT

Start at: 2018-01-26 13:01:42

End at: 2018-01-26 13:02:12

Local clock offset: -0.005 ms

Remote clock offset: 0.217 ms

Run 9: Report of LEDBAT — Data Link

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Run 10: Statistics of LEDBAT

Start at: 2018-01-26 13:19:43

End at: 2018-01-26 13:20:13

Local clock offset: 0.121 ms

Remote clock offset: 0.032 ms

Run 10: Report of LEDBAT — Data Link

Figure is missing

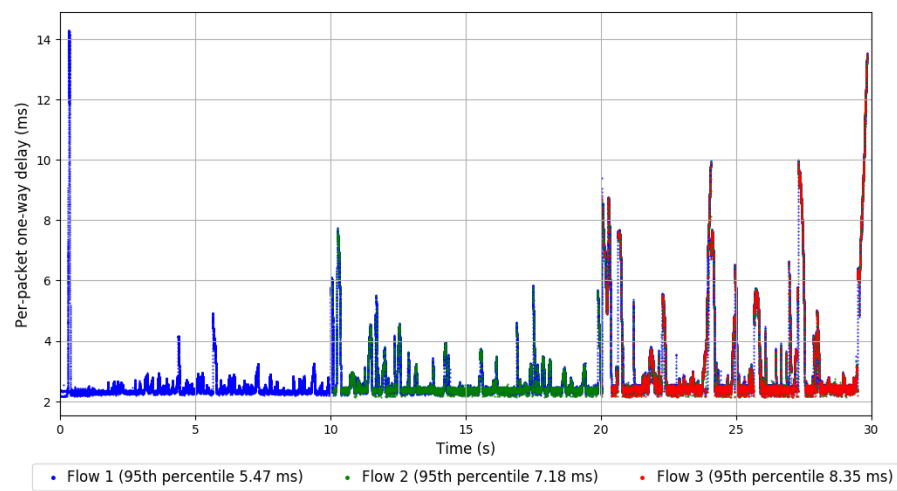
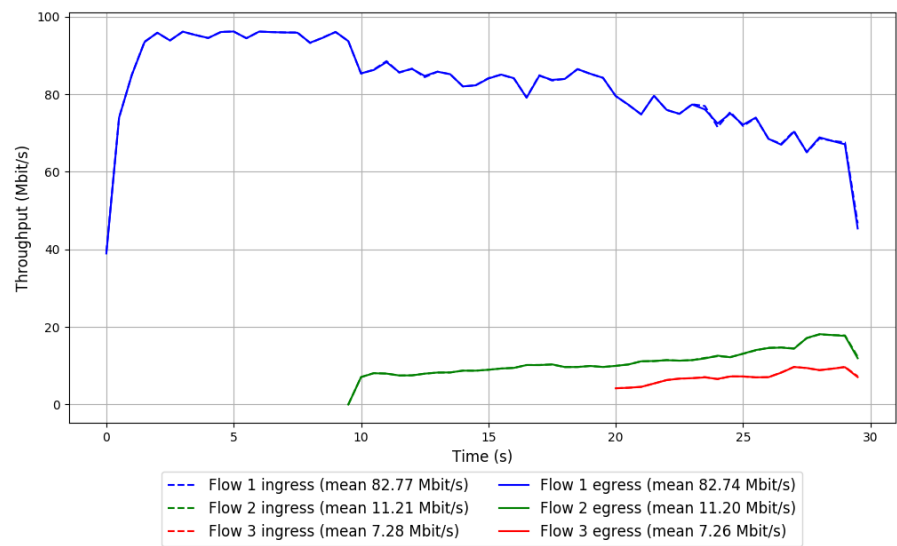
Figure is missing

```
Run 1: Statistics of PCC

Start at: 2018-01-26 10:41:46
End at: 2018-01-26 10:42:16
Local clock offset: -0.104 ms
Remote clock offset: 0.238 ms

# Below is generated by plot.py at 2018-01-26 16:41:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 5.731 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 5.475 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 7.179 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 8.350 ms
Loss rate: 0.24%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-26 10:59:49

End at: 2018-01-26 11:00:19

Local clock offset: -0.107 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-01-26 16:41:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.37 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 75.97 Mbit/s

95th percentile per-packet one-way delay: 18.741 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 17.17 Mbit/s

95th percentile per-packet one-way delay: 20.189 ms

Loss rate: 0.04%

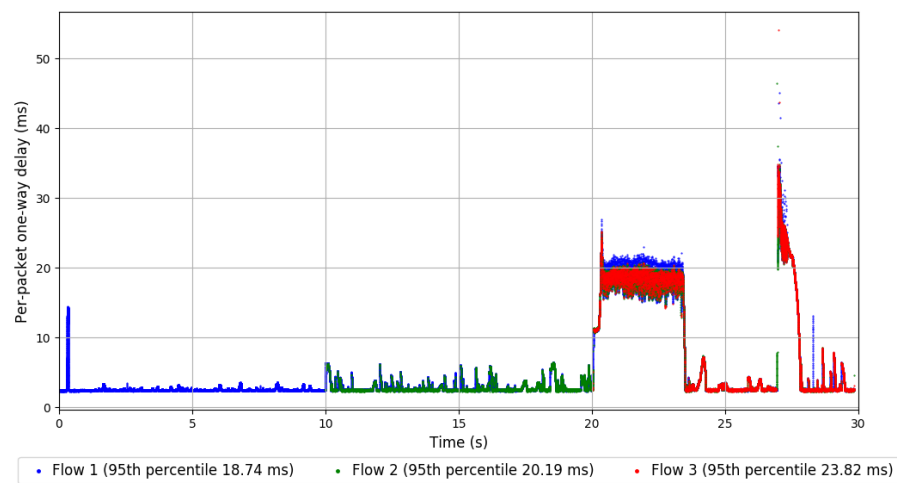
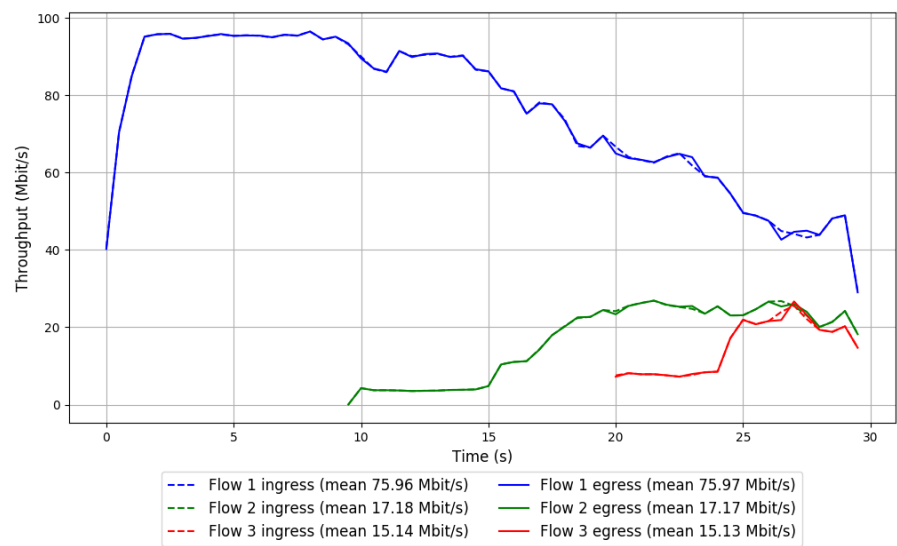
-- Flow 3:

Average throughput: 15.13 Mbit/s

95th percentile per-packet one-way delay: 23.820 ms

Loss rate: 0.06%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 11:17:53

End at: 2018-01-26 11:18:23

Local clock offset: -0.098 ms

Remote clock offset: 0.638 ms

Below is generated by plot.py at 2018-01-26 16:41:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.35 Mbit/s

95th percentile per-packet one-way delay: 17.465 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 13.57 Mbit/s

95th percentile per-packet one-way delay: 17.290 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 66.36 Mbit/s

95th percentile per-packet one-way delay: 17.487 ms

Loss rate: 0.02%

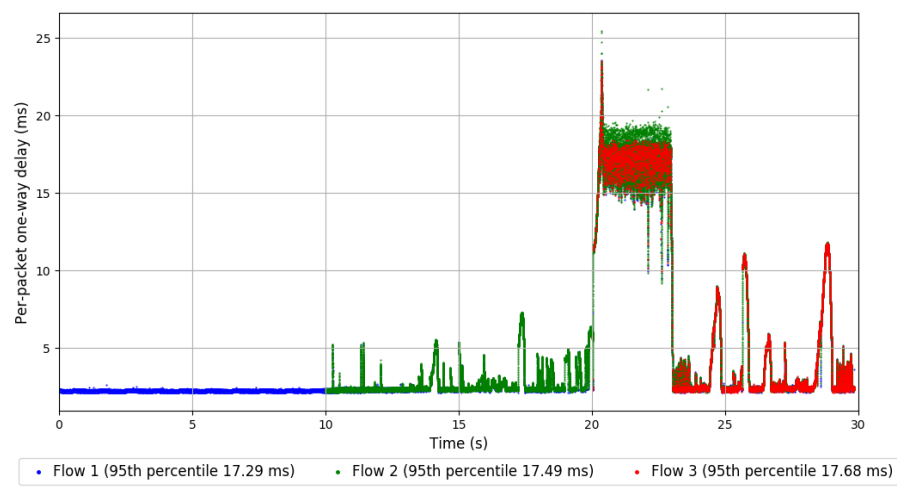
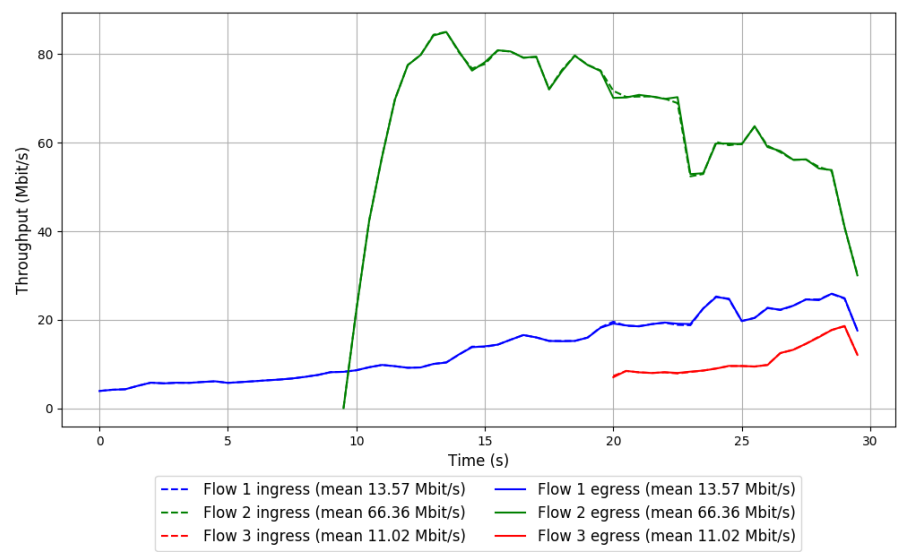
-- Flow 3:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 17.678 ms

Loss rate: 0.07%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 11:35:56

End at: 2018-01-26 11:36:26

Local clock offset: -0.171 ms

Remote clock offset: 0.831 ms

Below is generated by plot.py at 2018-01-26 16:41:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 10.646 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 65.91 Mbit/s

95th percentile per-packet one-way delay: 7.983 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 29.70 Mbit/s

95th percentile per-packet one-way delay: 13.107 ms

Loss rate: 0.02%

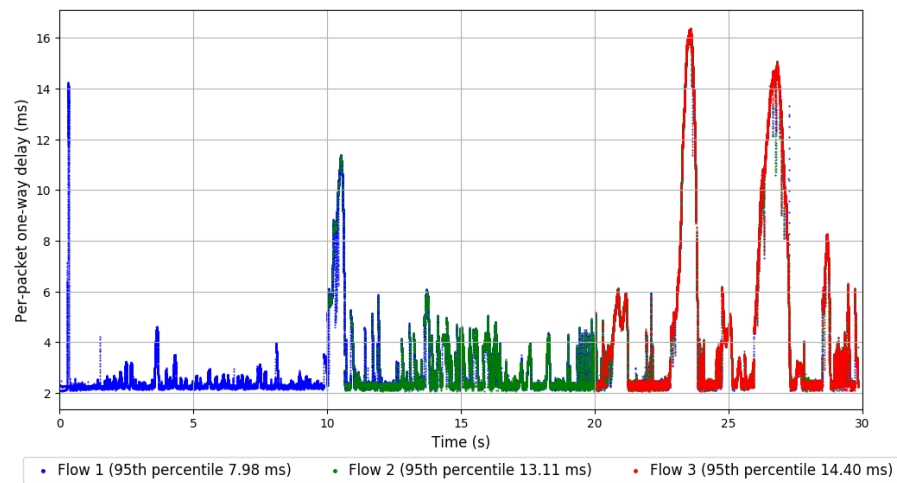
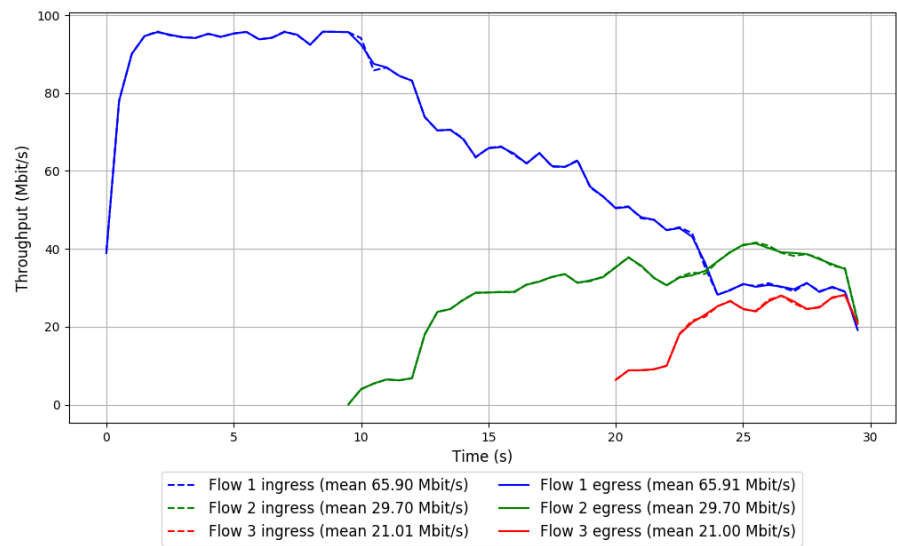
-- Flow 3:

Average throughput: 21.00 Mbit/s

95th percentile per-packet one-way delay: 14.401 ms

Loss rate: 0.07%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 11:54:00

End at: 2018-01-26 11:54:30

Local clock offset: -0.086 ms

Remote clock offset: 0.719 ms

Below is generated by plot.py at 2018-01-26 16:41:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 19.326 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 18.291 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 9.26 Mbit/s

95th percentile per-packet one-way delay: 23.774 ms

Loss rate: 0.11%

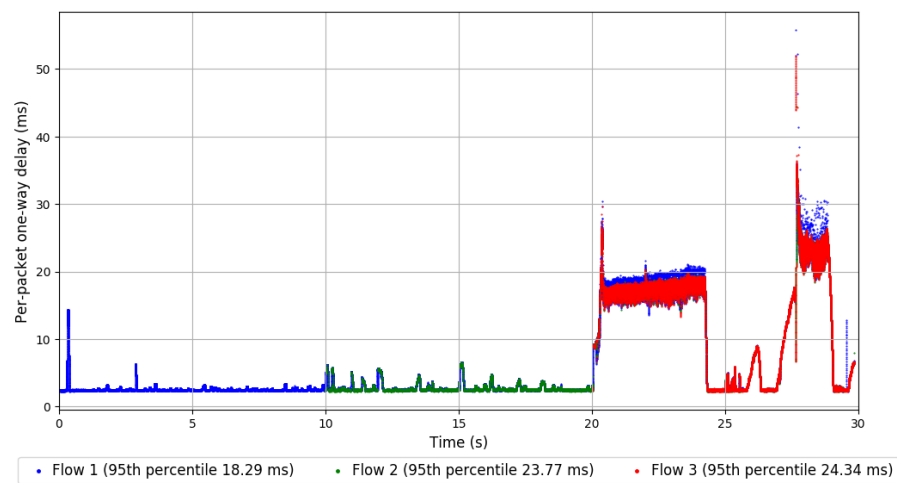
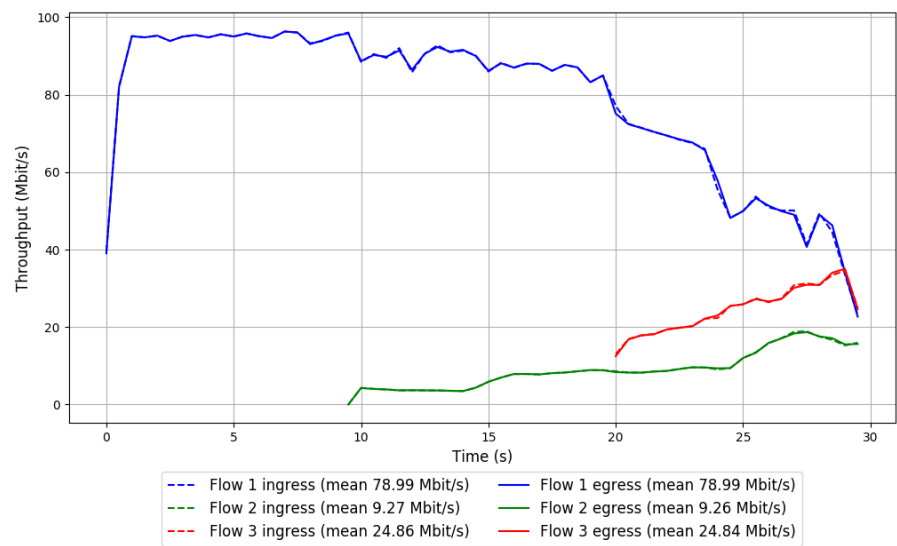
-- Flow 3:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 24.344 ms

Loss rate: 0.13%

Run 5: Report of PCC — Data Link

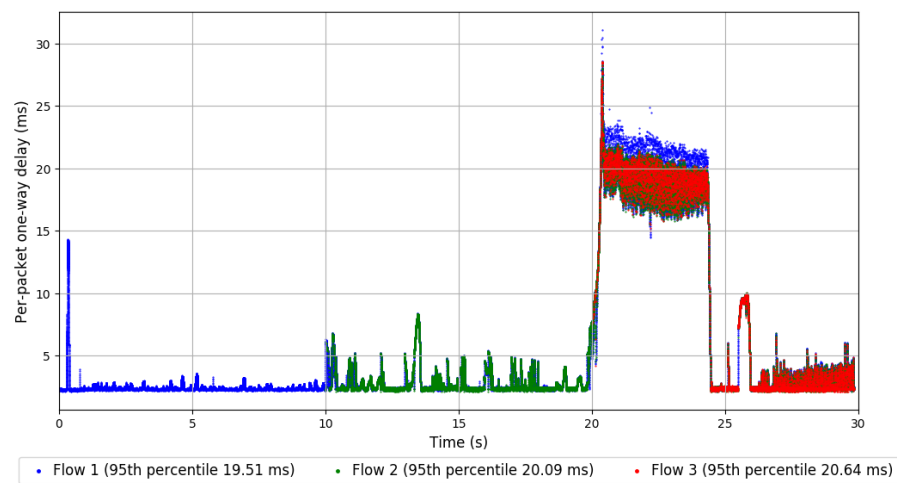
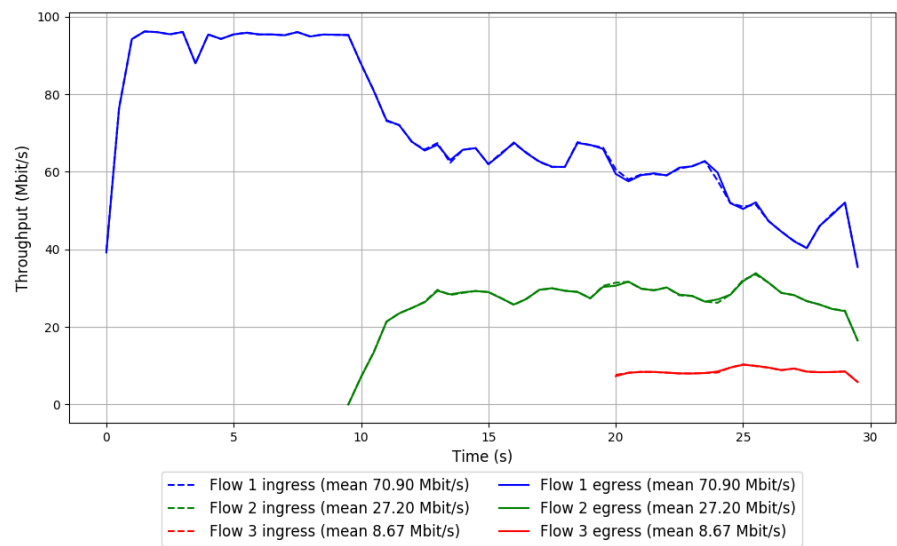


Run 6: Statistics of PCC

Start at: 2018-01-26 12:12:04
End at: 2018-01-26 12:12:34
Local clock offset: -0.074 ms
Remote clock offset: 0.769 ms

Below is generated by plot.py at 2018-01-26 16:42:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 19.760 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 70.90 Mbit/s
95th percentile per-packet one-way delay: 19.513 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 27.20 Mbit/s
95th percentile per-packet one-way delay: 20.089 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 20.643 ms
Loss rate: 0.04%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-26 12:30:07

End at: 2018-01-26 12:30:37

Local clock offset: -0.138 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2018-01-26 16:42:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.87 Mbit/s

95th percentile per-packet one-way delay: 22.733 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 71.72 Mbit/s

95th percentile per-packet one-way delay: 22.379 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 28.99 Mbit/s

95th percentile per-packet one-way delay: 23.180 ms

Loss rate: 0.15%

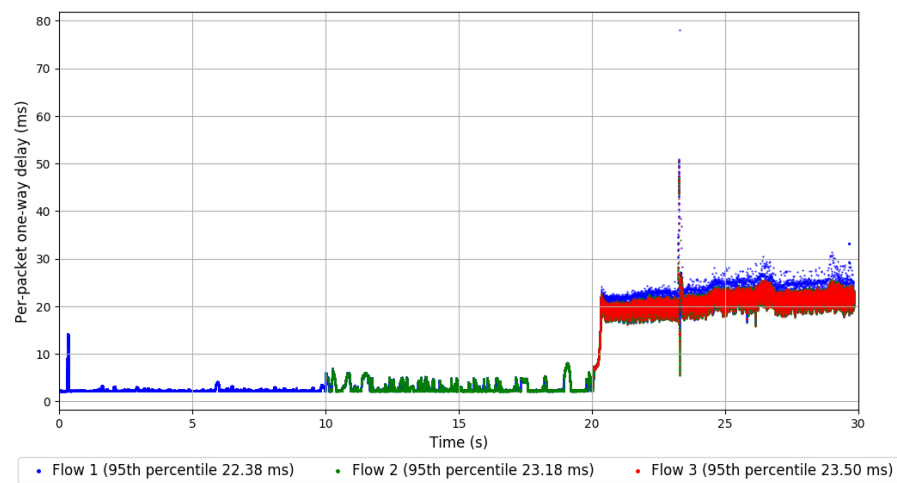
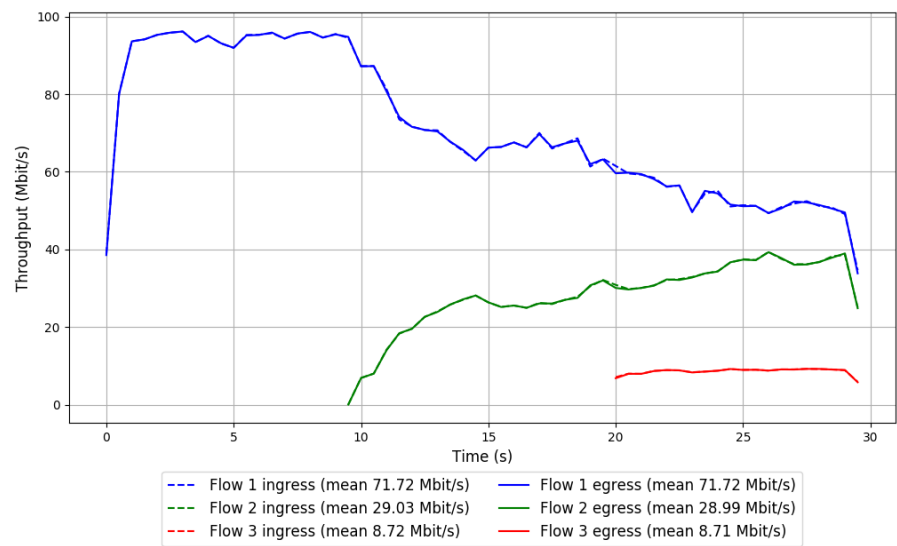
-- Flow 3:

Average throughput: 8.71 Mbit/s

95th percentile per-packet one-way delay: 23.503 ms

Loss rate: 0.25%

Run 7: Report of PCC — Data Link

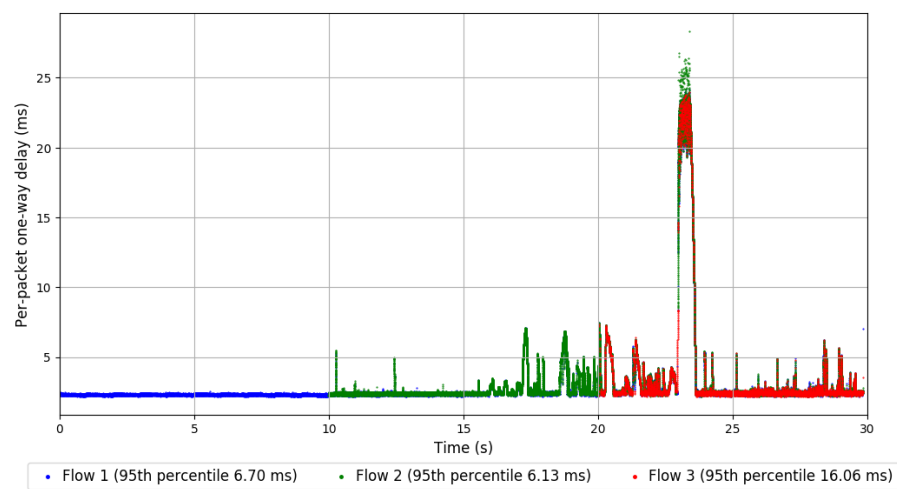
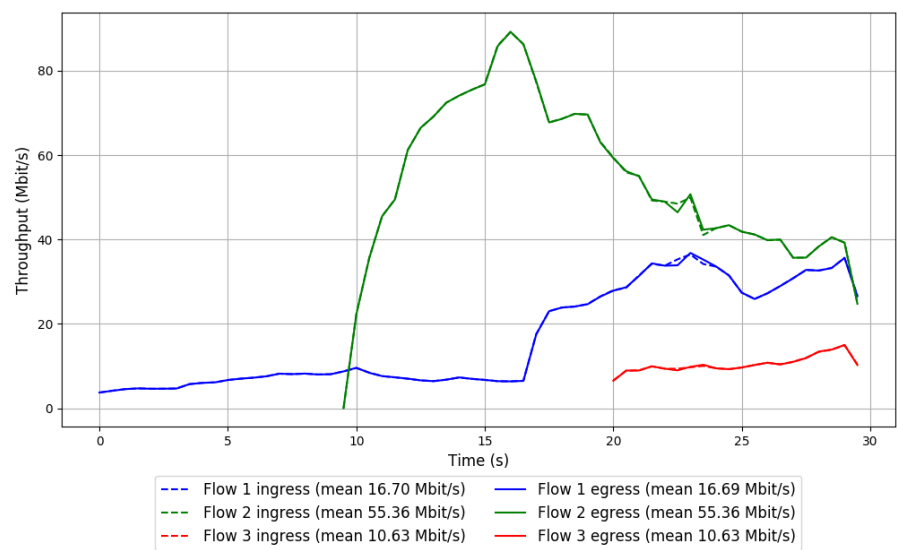


Run 8: Statistics of PCC

Start at: 2018-01-26 12:48:13
End at: 2018-01-26 12:48:43
Local clock offset: 0.028 ms
Remote clock offset: 0.346 ms

Below is generated by plot.py at 2018-01-26 16:42:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.02 Mbit/s
95th percentile per-packet one-way delay: 6.363 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 16.69 Mbit/s
95th percentile per-packet one-way delay: 6.699 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 6.130 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 16.061 ms
Loss rate: 0.07%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 13:06:14

End at: 2018-01-26 13:06:44

Local clock offset: 0.106 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-01-26 16:43:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 5.334 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 76.93 Mbit/s

95th percentile per-packet one-way delay: 5.037 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 5.723 ms

Loss rate: 0.03%

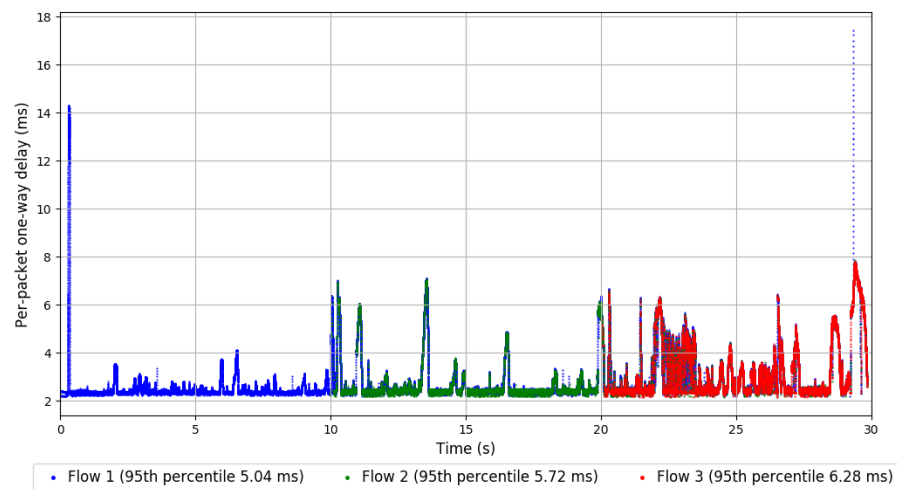
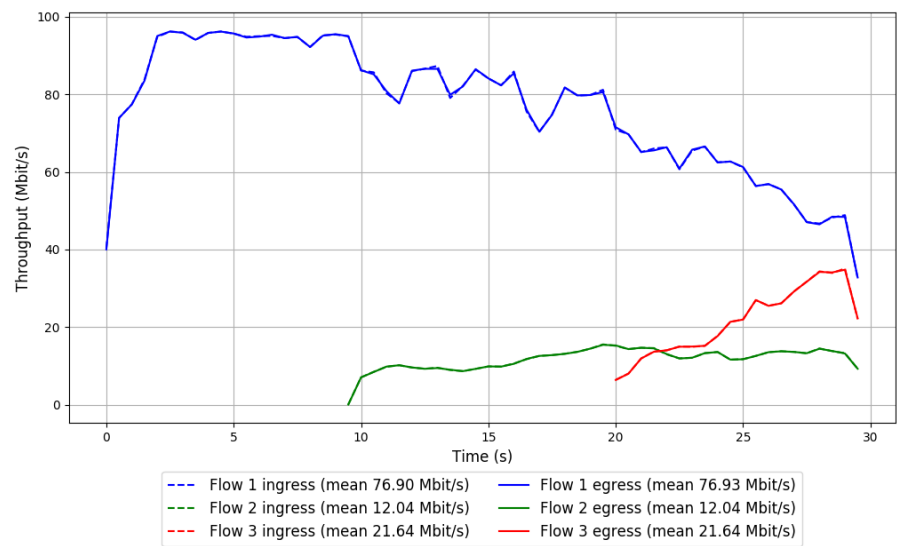
-- Flow 3:

Average throughput: 21.64 Mbit/s

95th percentile per-packet one-way delay: 6.281 ms

Loss rate: 0.07%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-26 13:24:19

End at: 2018-01-26 13:24:49

Local clock offset: 0.153 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.82 Mbit/s

95th percentile per-packet one-way delay: 15.190 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.58 Mbit/s

95th percentile per-packet one-way delay: 15.202 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 15.229 ms

Loss rate: 0.03%

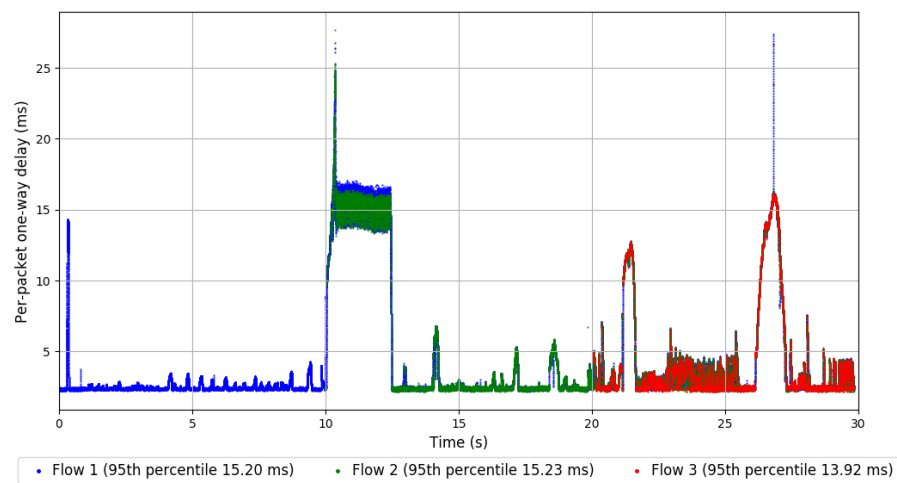
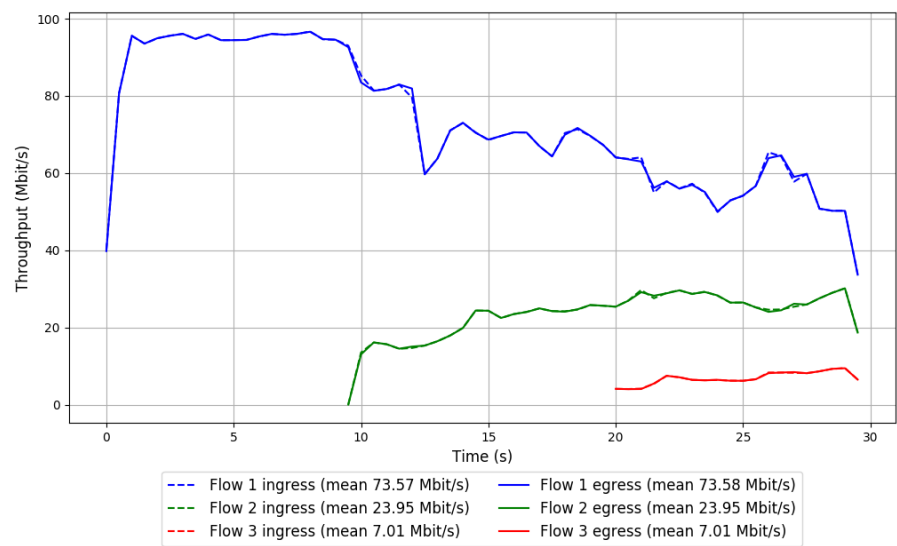
-- Flow 3:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 13.917 ms

Loss rate: 0.05%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

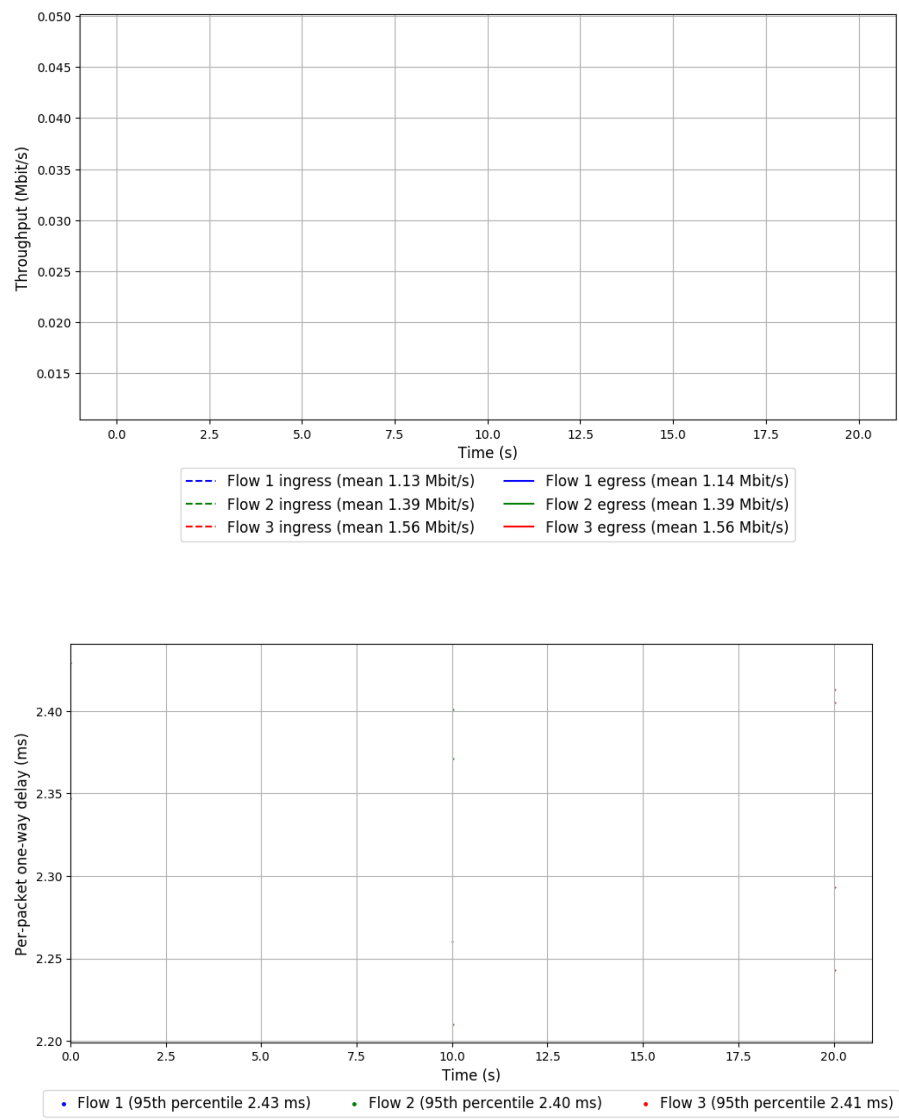
Start at: 2018-01-26 10:49:33

End at: 2018-01-26 10:50:03

Local clock offset: -0.114 ms

Remote clock offset: 0.25 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

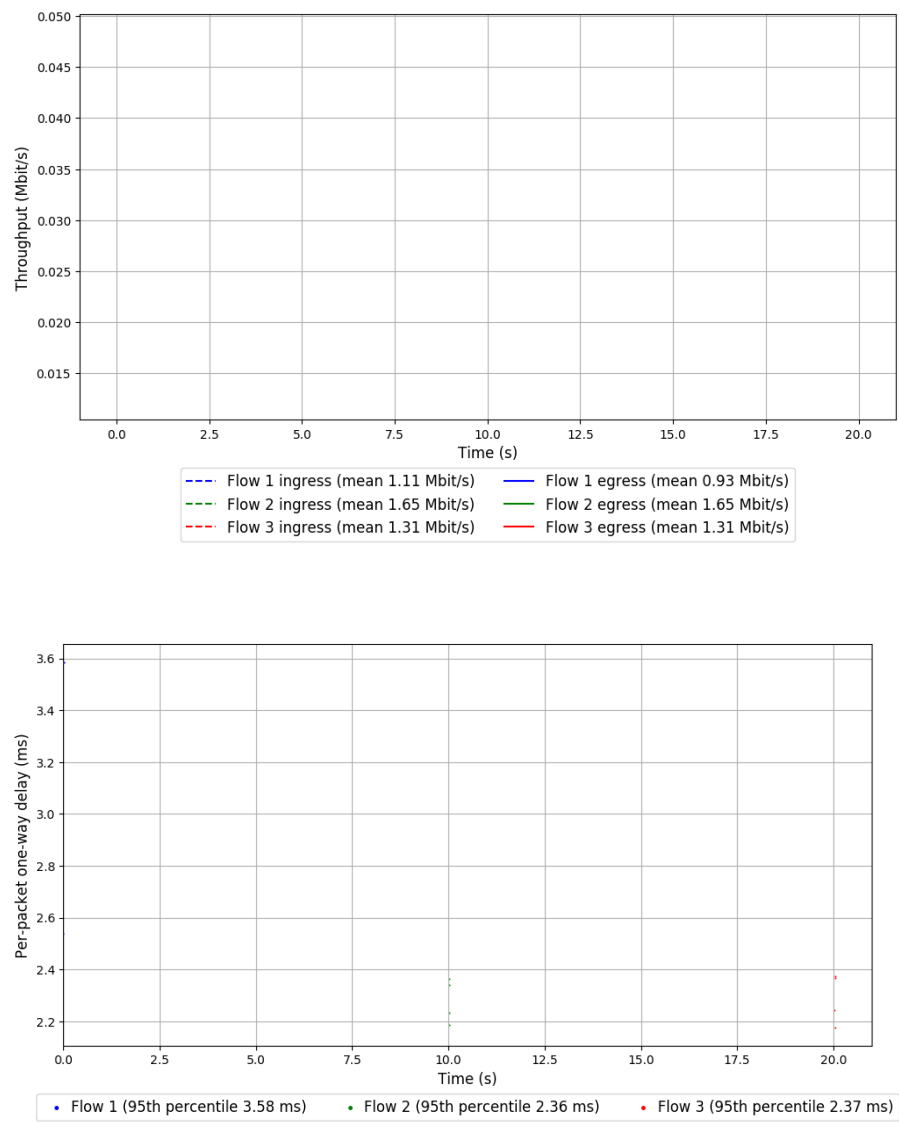
Start at: 2018-01-26 11:07:37

End at: 2018-01-26 11:08:07

Local clock offset: -0.102 ms

Remote clock offset: 0.493 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

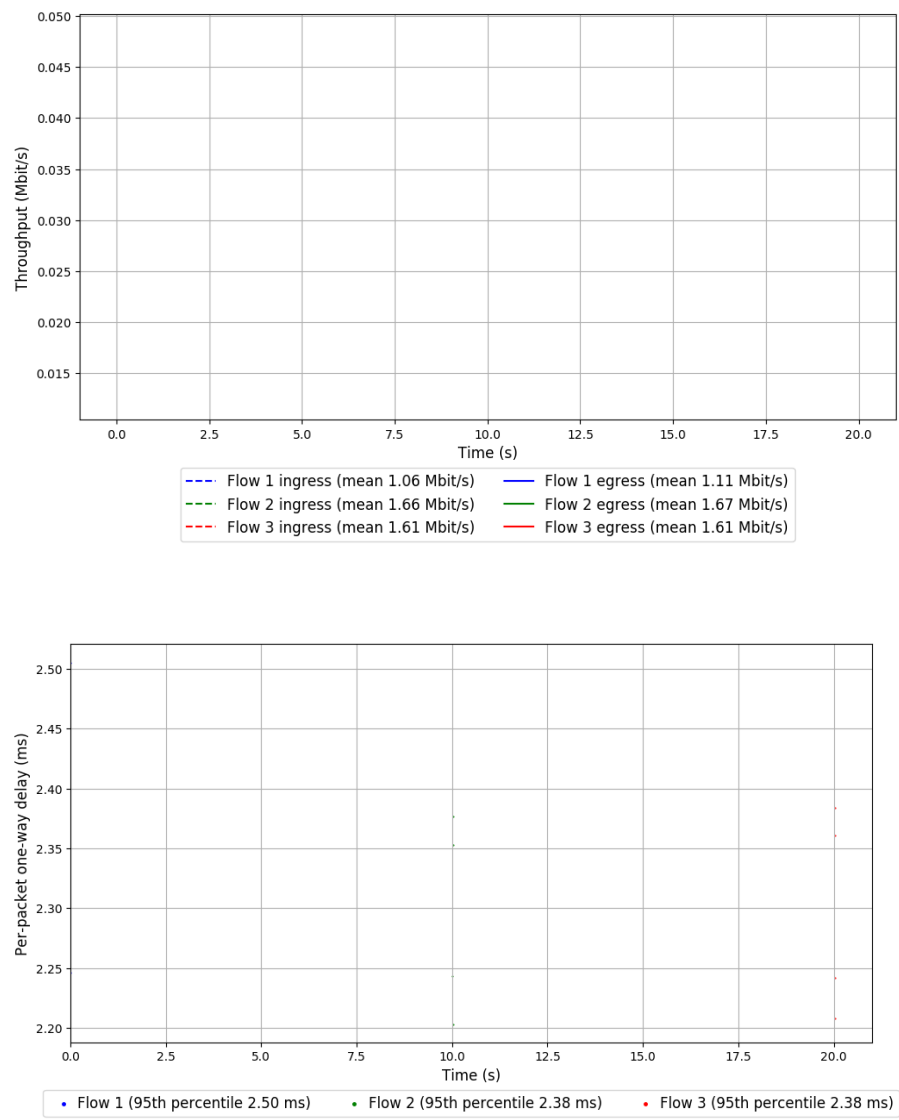
Start at: 2018-01-26 11:25:41

End at: 2018-01-26 11:26:11

Local clock offset: -0.087 ms

Remote clock offset: 0.734 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

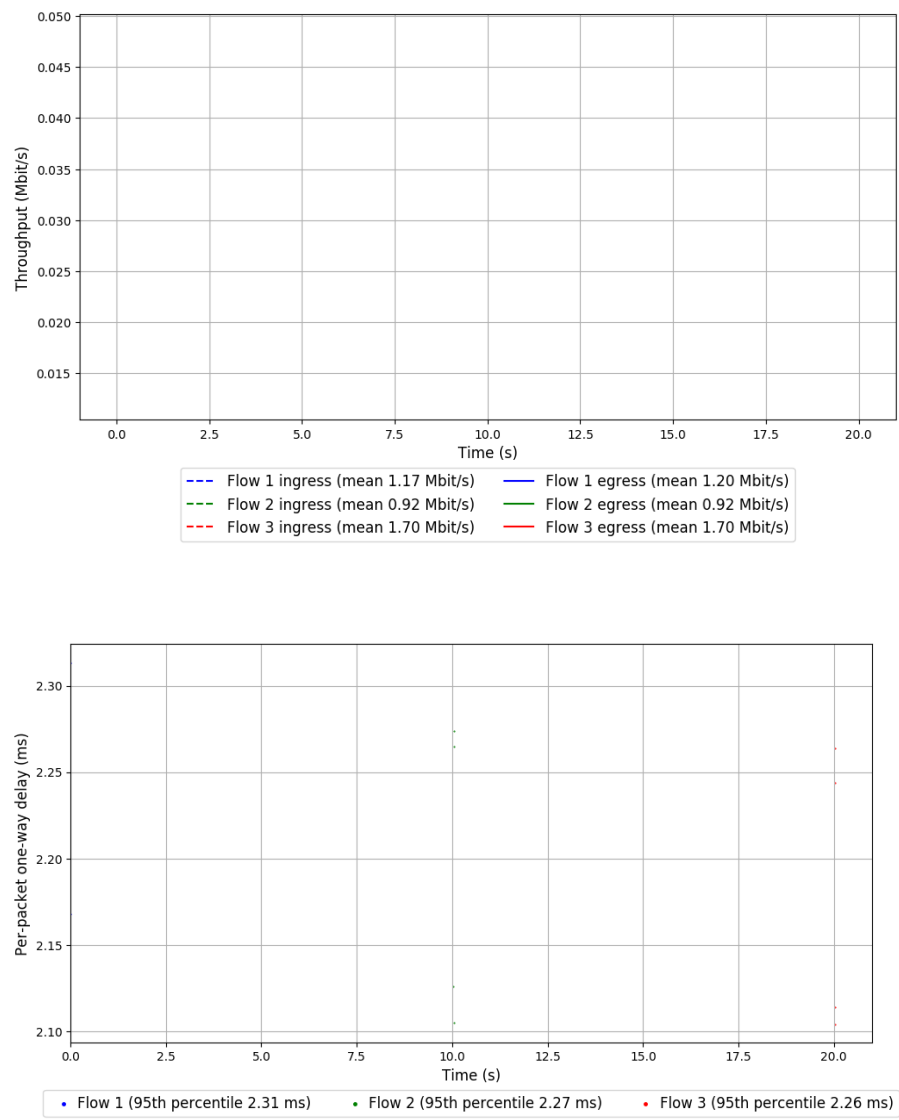
Start at: 2018-01-26 11:43:44

End at: 2018-01-26 11:44:14

Local clock offset: -0.175 ms

Remote clock offset: 0.831 ms

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

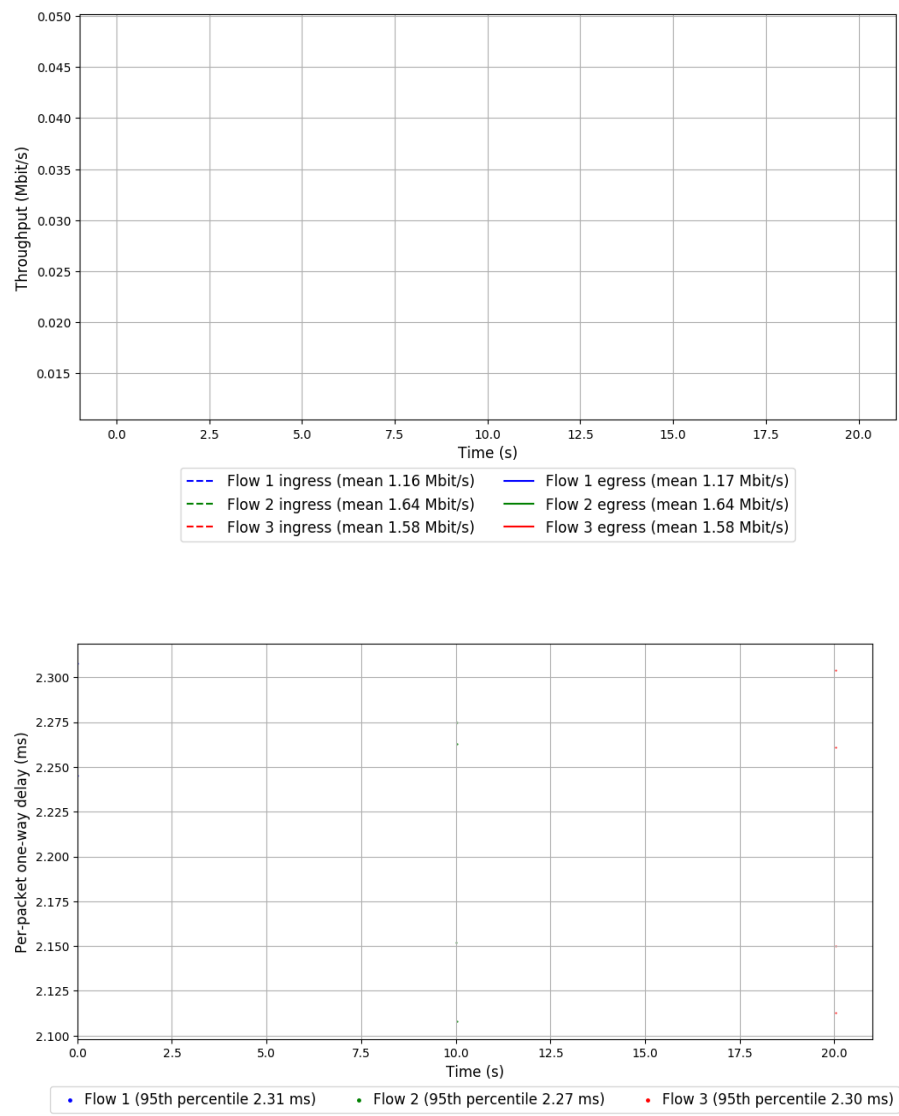
Start at: 2018-01-26 12:01:48

End at: 2018-01-26 12:02:18

Local clock offset: -0.17 ms

Remote clock offset: 0.79 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

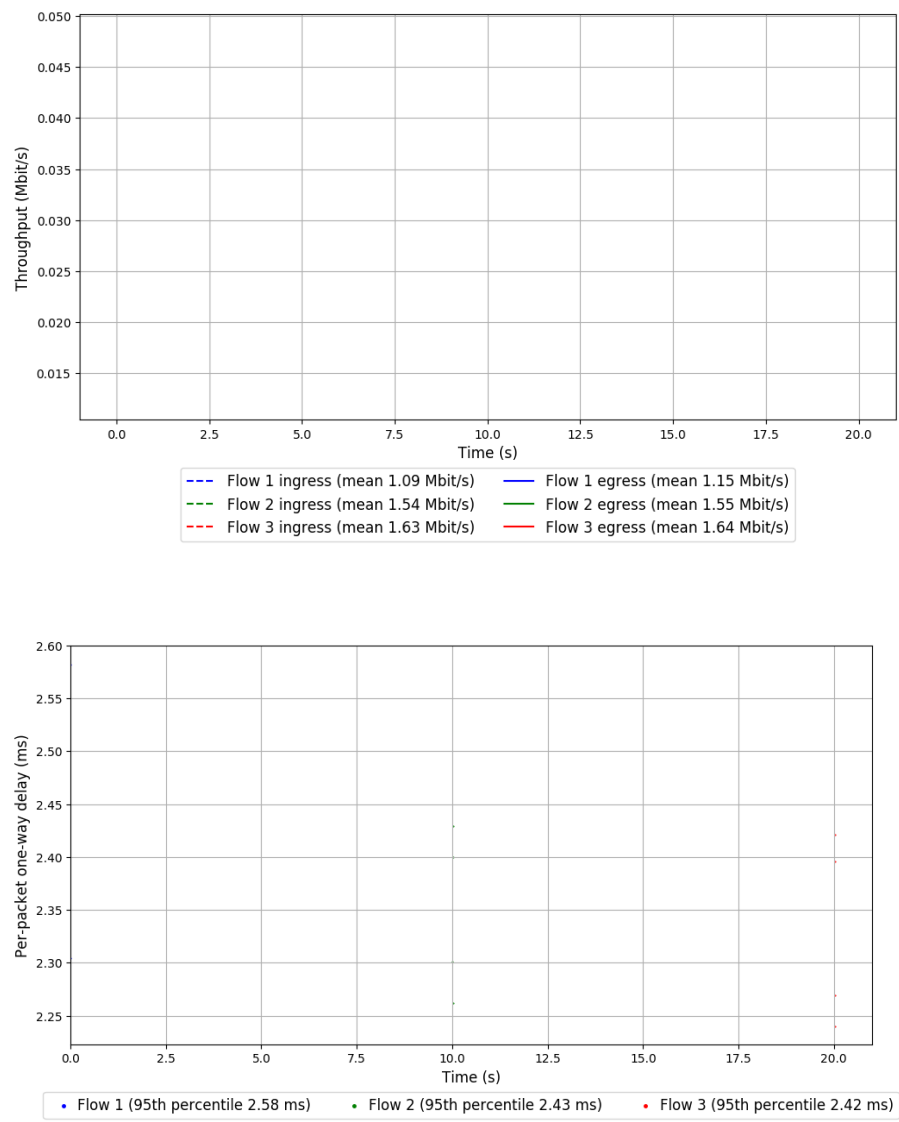
Start at: 2018-01-26 12:19:52

End at: 2018-01-26 12:20:22

Local clock offset: -0.075 ms

Remote clock offset: 0.619 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

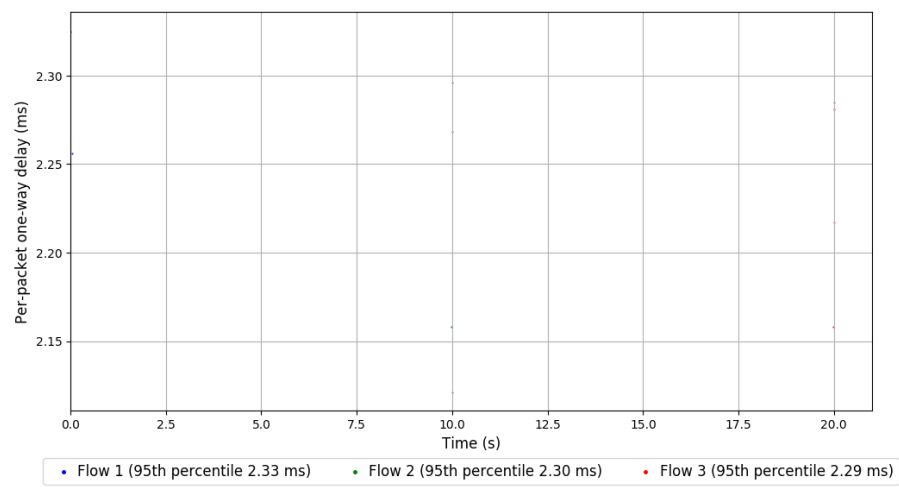
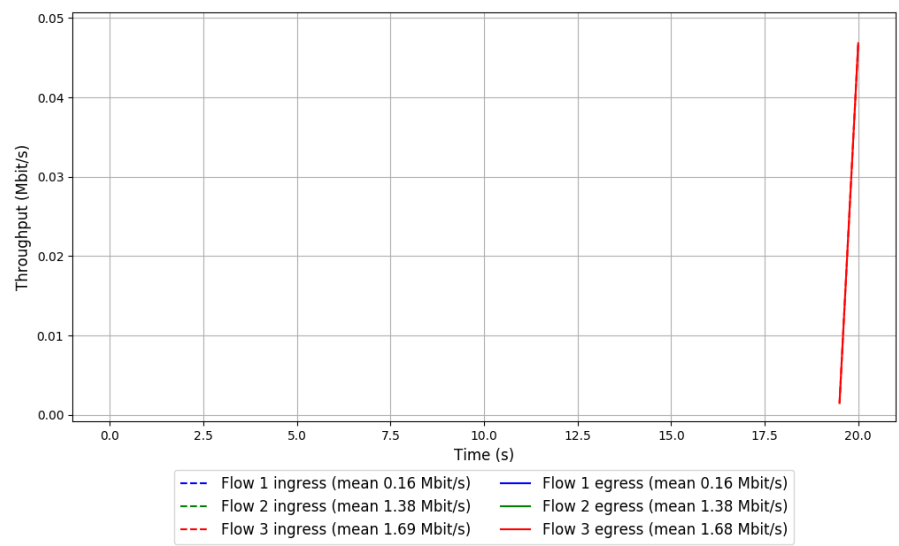
Start at: 2018-01-26 12:37:56

End at: 2018-01-26 12:38:26

Local clock offset: -0.079 ms

Remote clock offset: 0.501 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

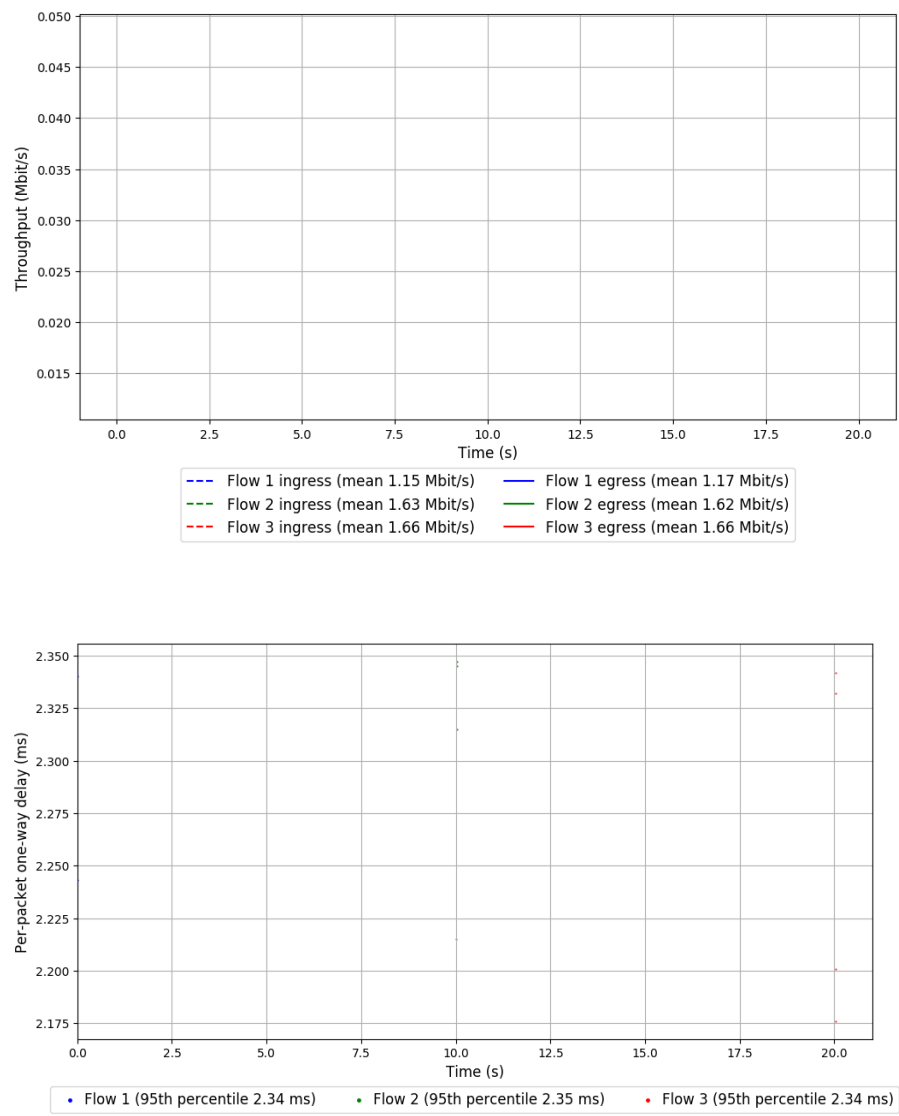
Start at: 2018-01-26 12:55:59

End at: 2018-01-26 12:56:29

Local clock offset: 0.048 ms

Remote clock offset: 0.321 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

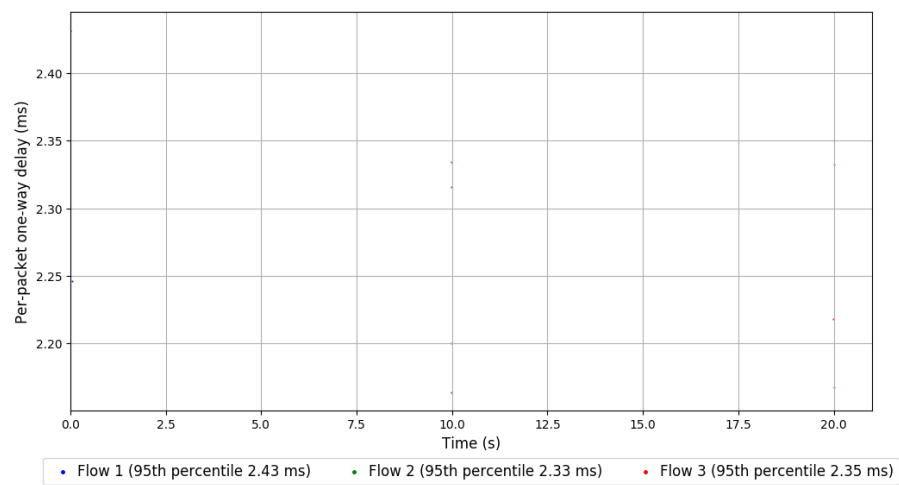
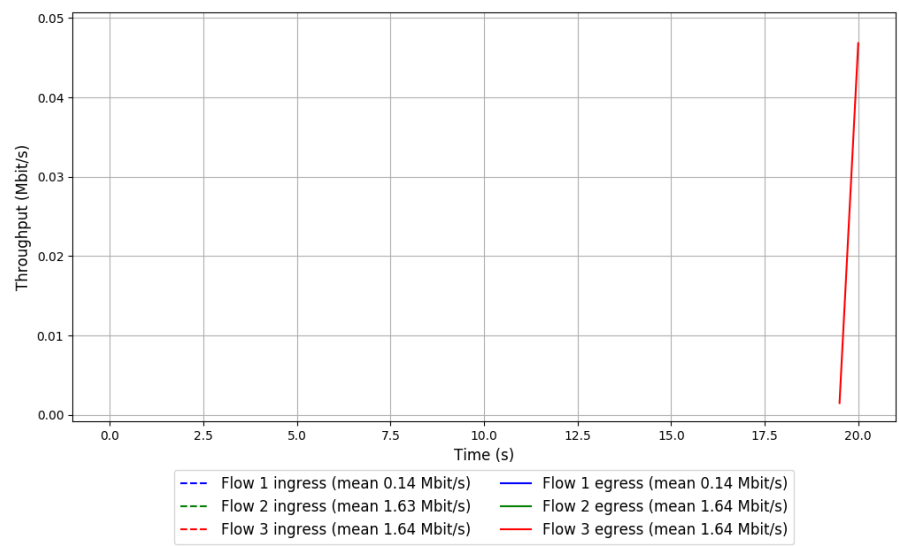
Start at: 2018-01-26 13:14:01

End at: 2018-01-26 13:14:31

Local clock offset: 0.117 ms

Remote clock offset: 0.161 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

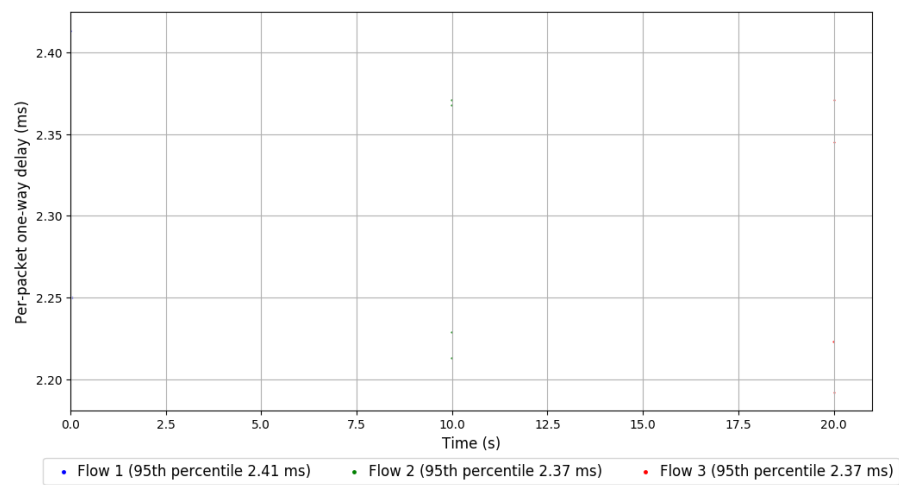
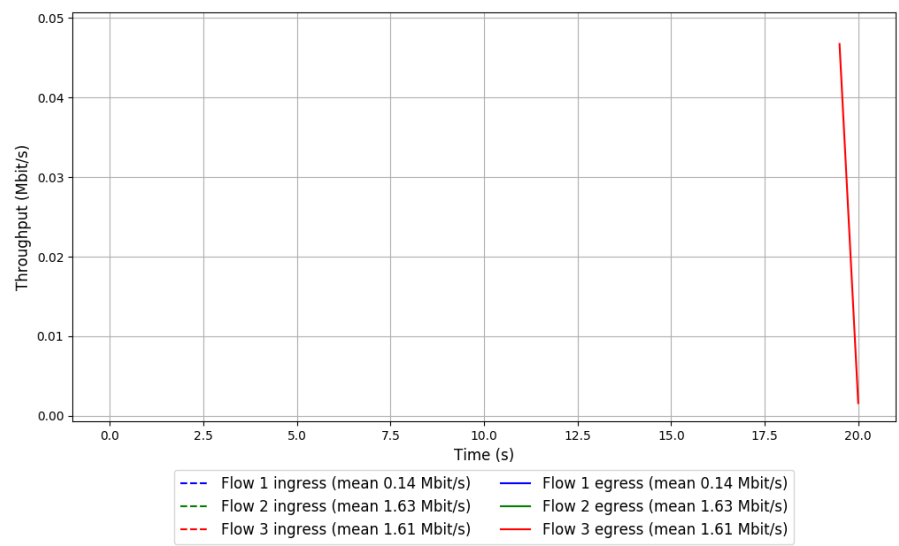
Start at: 2018-01-26 13:32:08

End at: 2018-01-26 13:32:38

Local clock offset: 0.157 ms

Remote clock offset: -0.001 ms

Run 10: Report of QUIC Cubic — Data Link

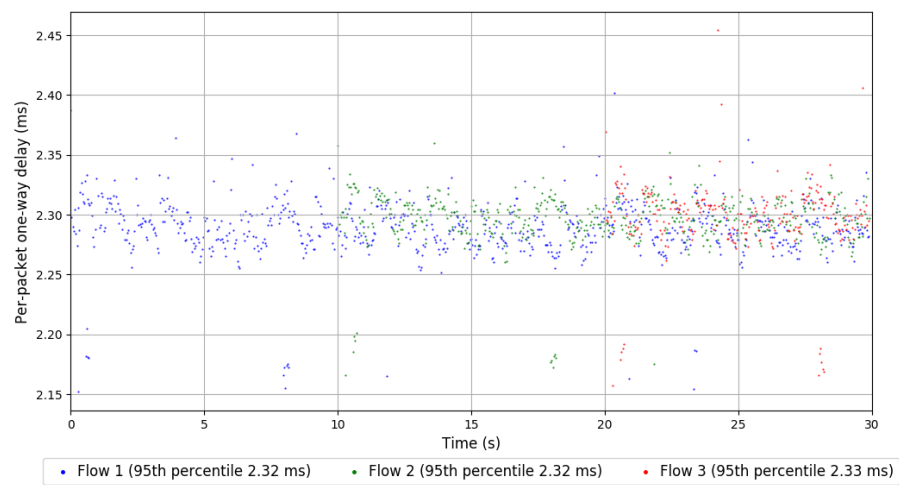
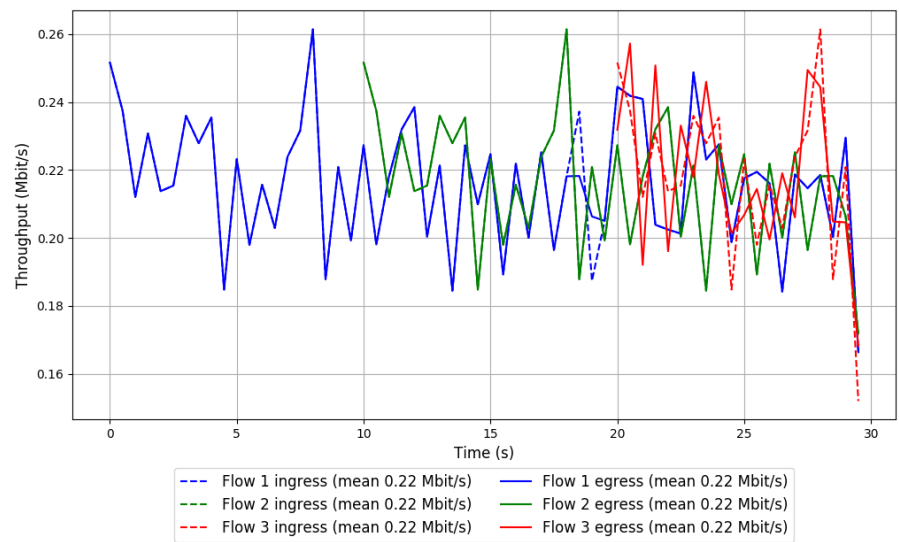


```
Run 1: Statistics of SReAM

Start at: 2018-01-26 10:45:04
End at: 2018-01-26 10:45:34
Local clock offset: -0.109 ms
Remote clock offset: 0.271 ms

# Below is generated by plot.py at 2018-01-26 16:43:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.323 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.320 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.321 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

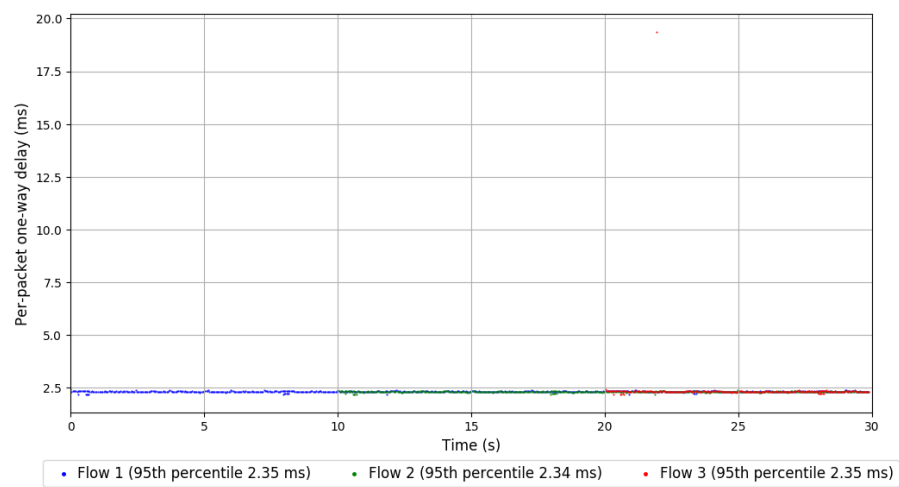
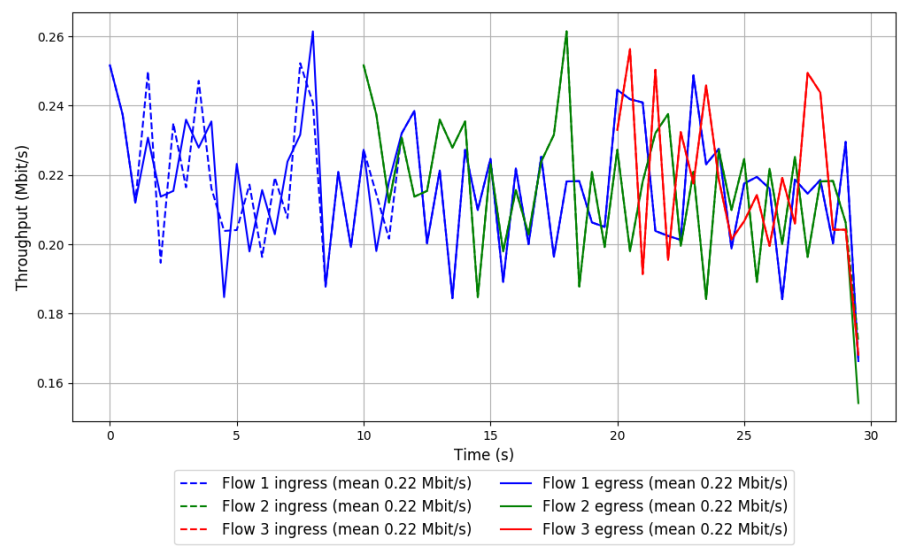


```
Run 2: Statistics of SCReAM

Start at: 2018-01-26 11:03:06
End at: 2018-01-26 11:03:36
Local clock offset: -0.093 ms
Remote clock offset: 0.466 ms

# Below is generated by plot.py at 2018-01-26 16:43:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.349 ms
Loss rate: 0.07%
-- 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: 2.338 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.355 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

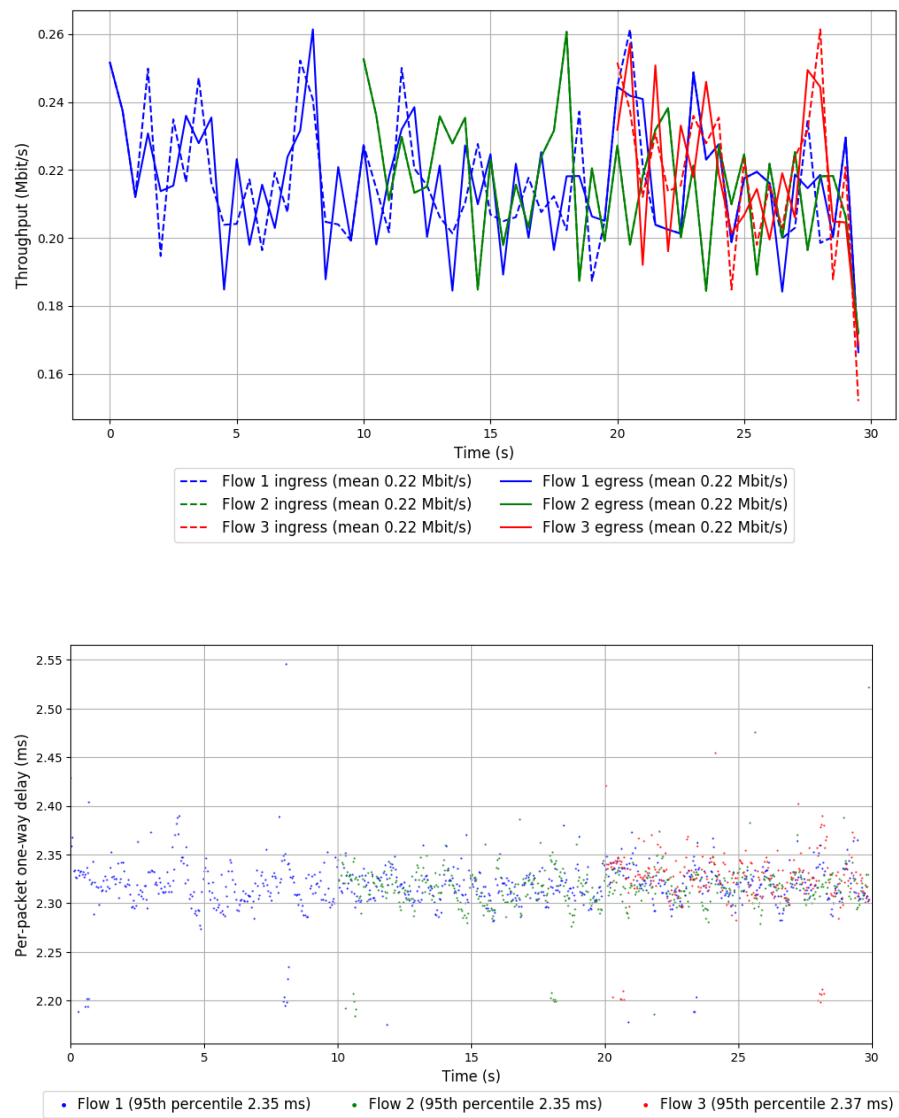


Run 3: Statistics of SReAM

Start at: 2018-01-26 11:21:10
End at: 2018-01-26 11:21:40
Local clock offset: -0.084 ms
Remote clock offset: 0.69 ms

Below is generated by plot.py at 2018-01-26 16:43:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.352 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: 2.345 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 3: Report of SReAM — Data Link

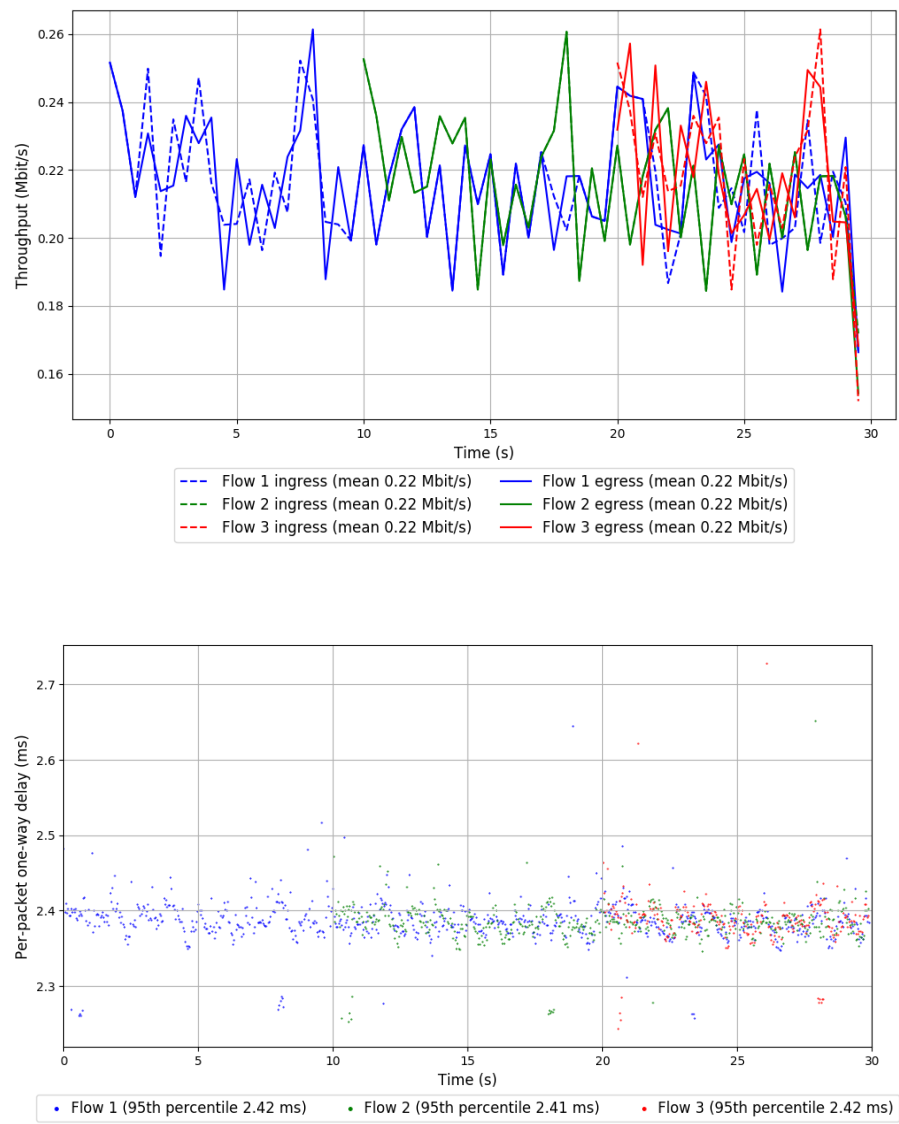


Run 4: Statistics of SReAM

Start at: 2018-01-26 11:39:14
End at: 2018-01-26 11:39:44
Local clock offset: -0.096 ms
Remote clock offset: 0.771 ms

Below is generated by plot.py at 2018-01-26 16:43:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 2.417 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.419 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.412 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.419 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-01-26 11:57:17

End at: 2018-01-26 11:57:47

Local clock offset: -0.169 ms

Remote clock offset: 0.724 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.349 ms

Loss rate: 0.20%

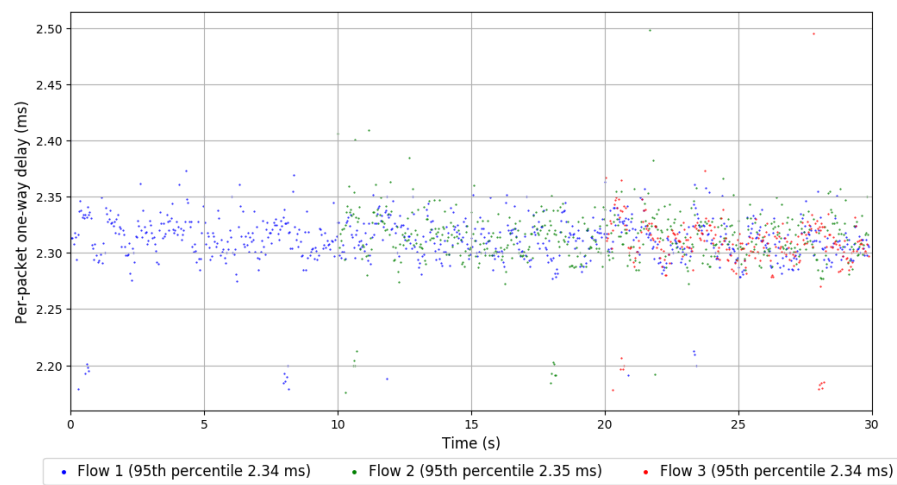
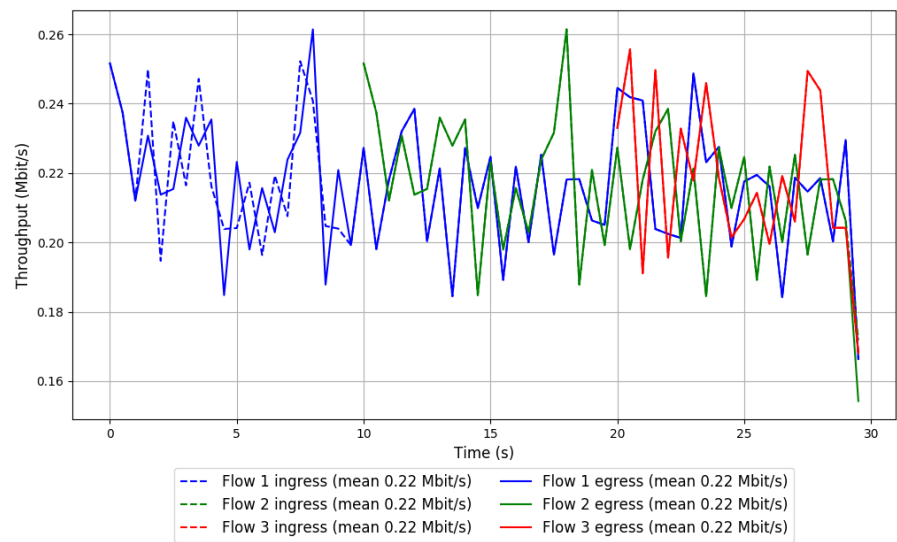
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.339 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-01-26 12:15:22

End at: 2018-01-26 12:15:52

Local clock offset: -0.08 ms

Remote clock offset: 0.735 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.20%

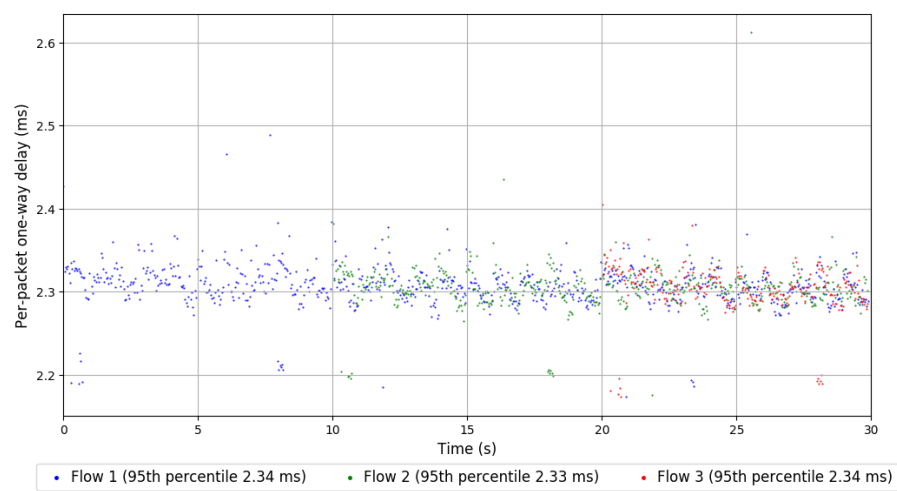
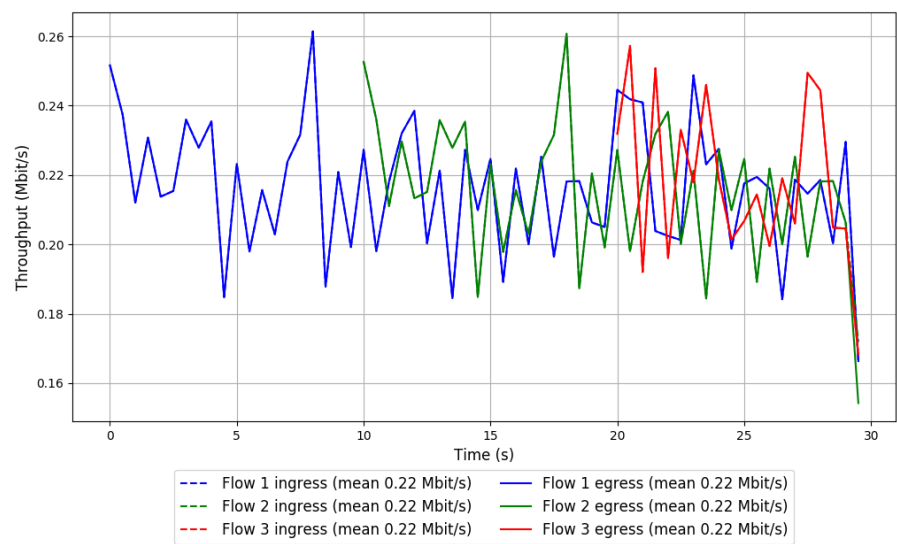
-- Flow 3:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-01-26 12:33:25

End at: 2018-01-26 12:33:55

Local clock offset: -0.015 ms

Remote clock offset: 0.5 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.402 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.391 ms

Loss rate: 0.20%

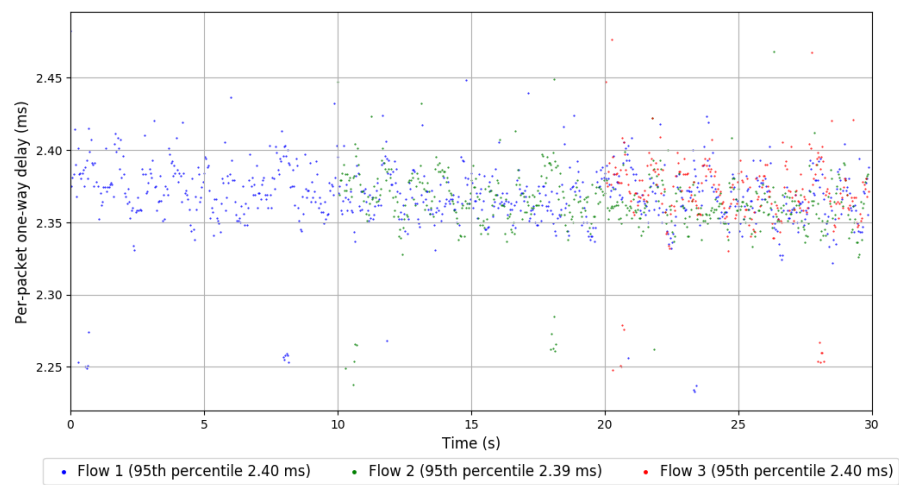
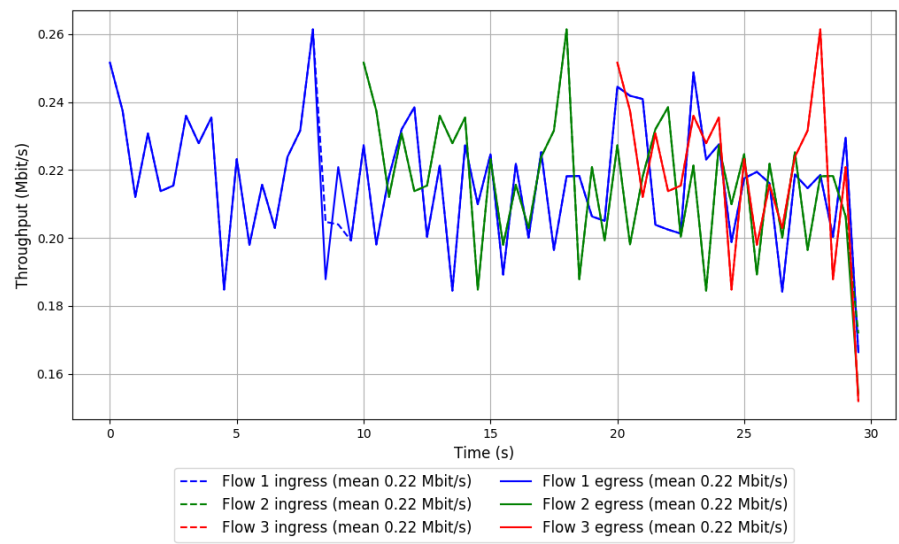
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.402 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-01-26 12:51:30

End at: 2018-01-26 12:52:00

Local clock offset: 0.022 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.391 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

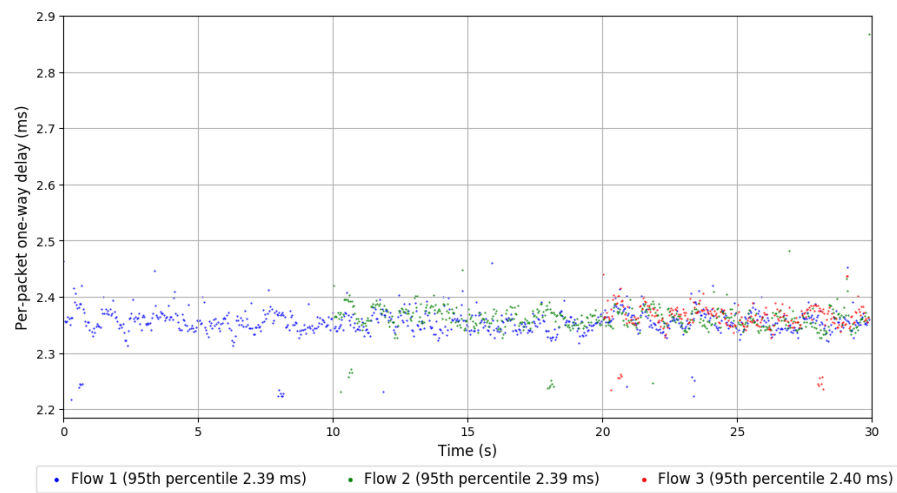
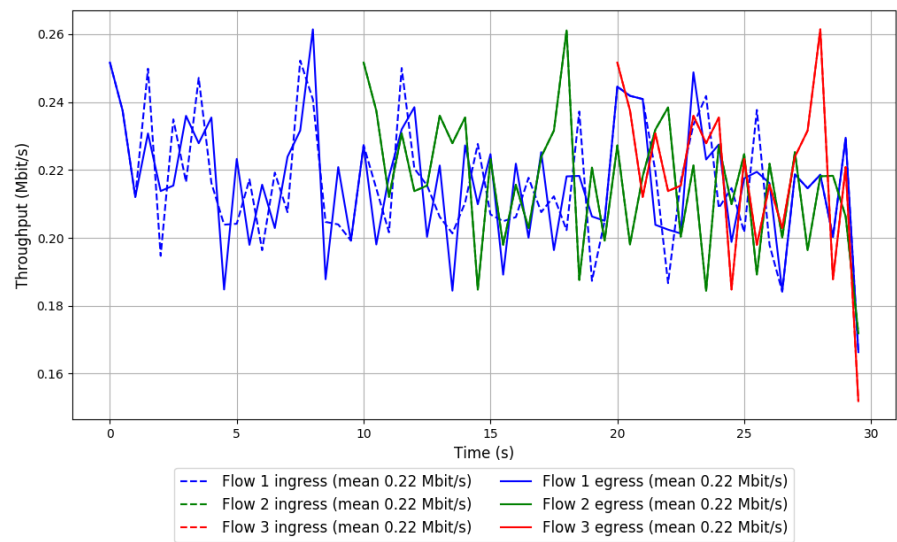
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.396 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-01-26 13:09:31

End at: 2018-01-26 13:10:01

Local clock offset: 0.102 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.416 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.412 ms

Loss rate: 0.00%

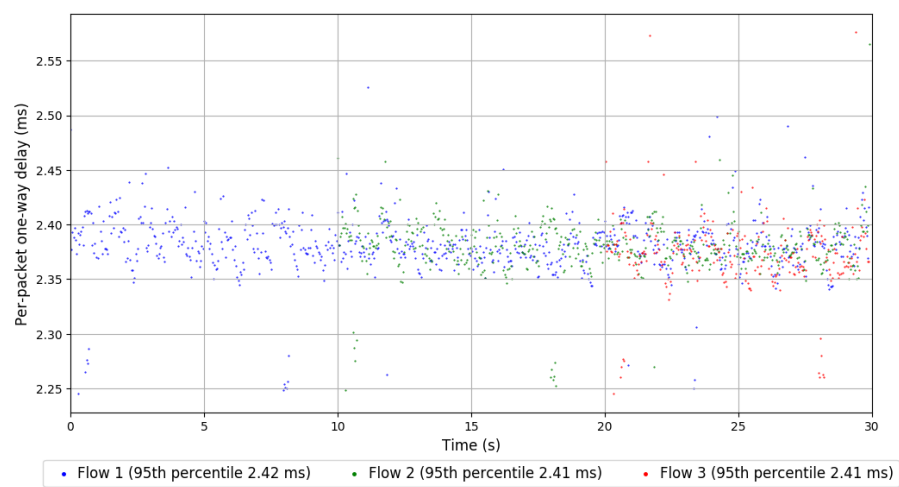
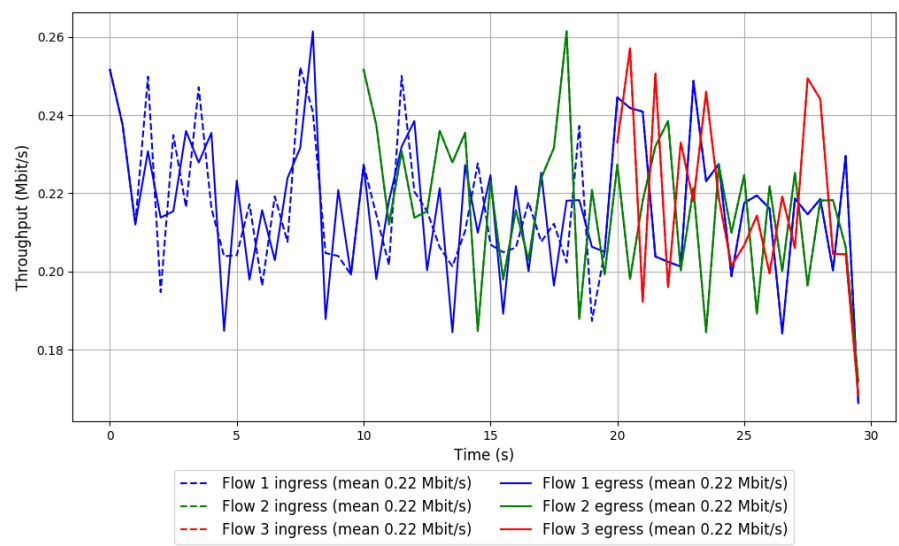
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.410 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-01-26 13:27:37

End at: 2018-01-26 13:28:07

Local clock offset: 0.152 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.340 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.20%

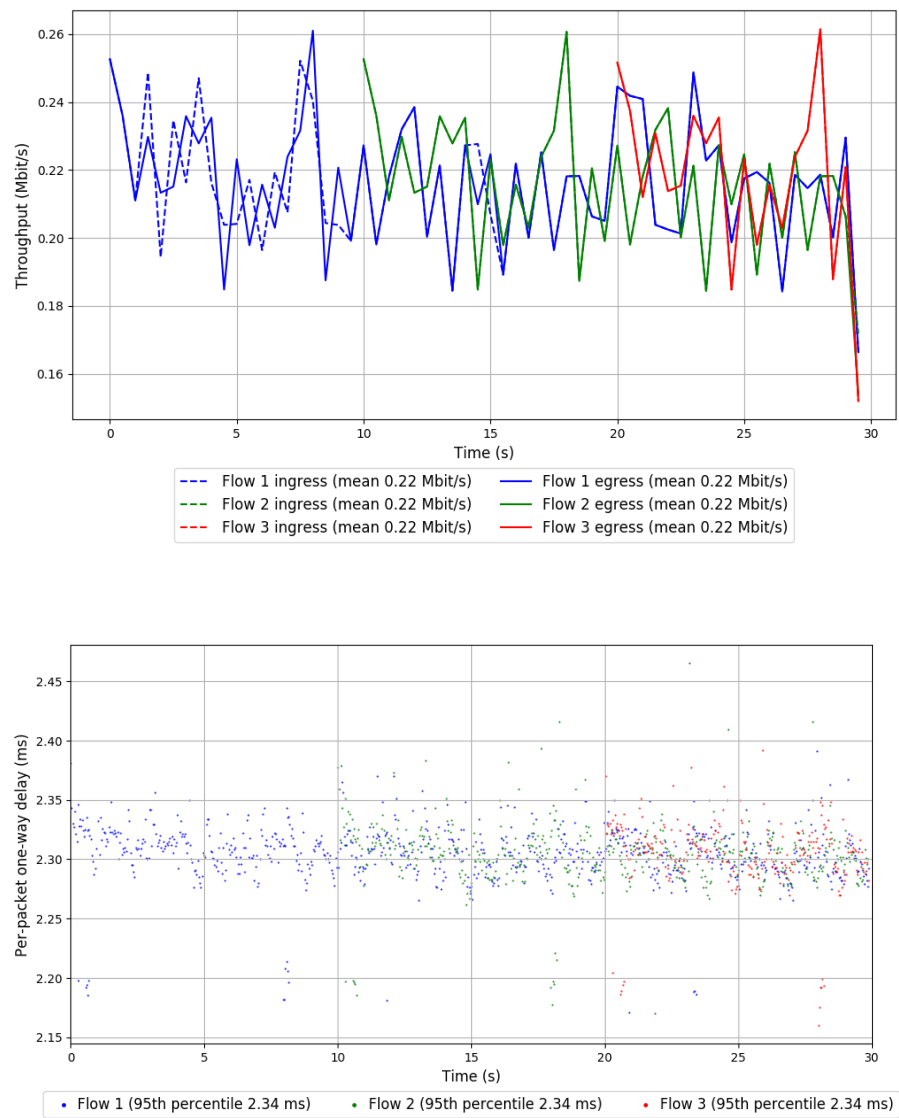
-- Flow 3:

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: 2018-01-26 10:42:53

End at: 2018-01-26 10:43:23

Local clock offset: -0.175 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.49 Mbit/s

95th percentile per-packet one-way delay: 3.323 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 3.252 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.50 Mbit/s

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

Loss rate: 0.00%

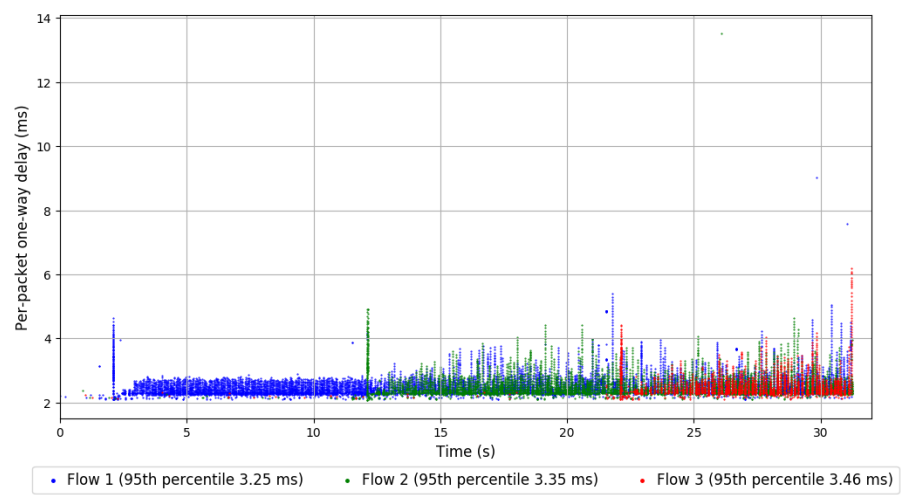
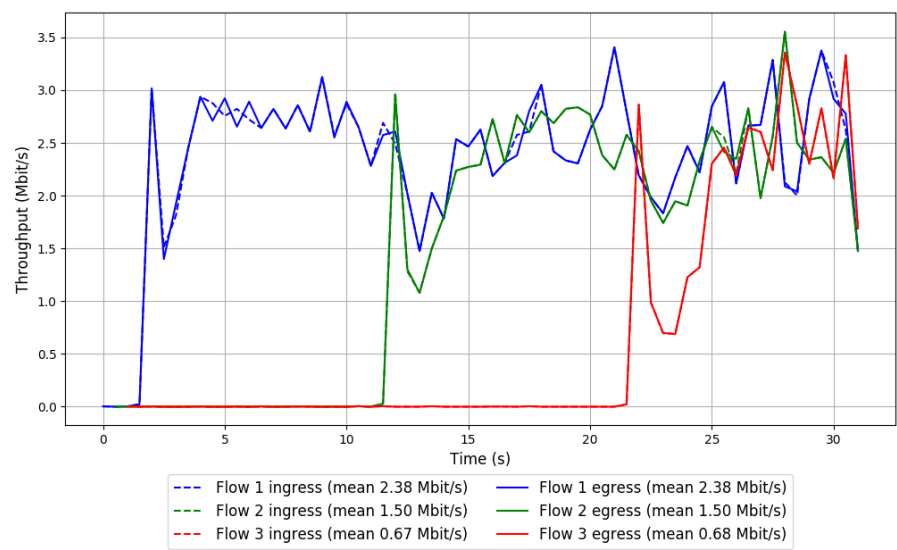
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 3.458 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 11:00:56

End at: 2018-01-26 11:01:26

Local clock offset: -0.09 ms

Remote clock offset: 0.448 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.46 Mbit/s

95th percentile per-packet one-way delay: 3.382 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 3.387 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.49 Mbit/s

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

Loss rate: 0.00%

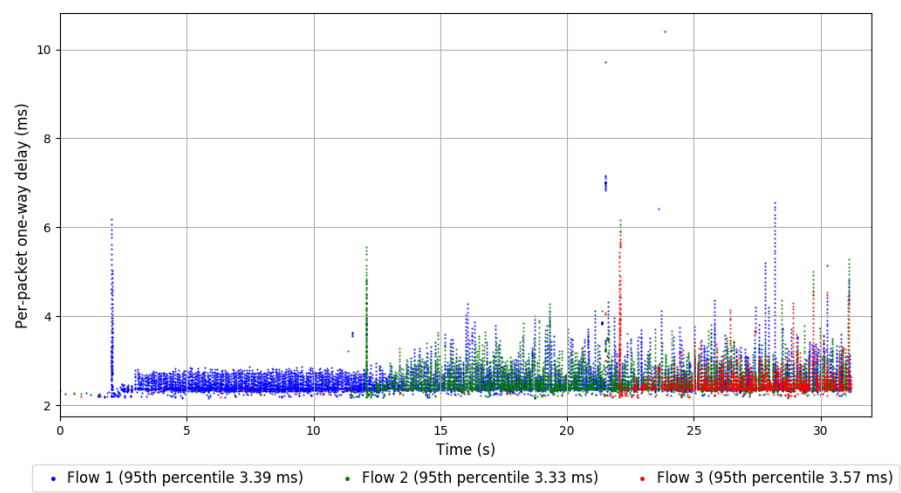
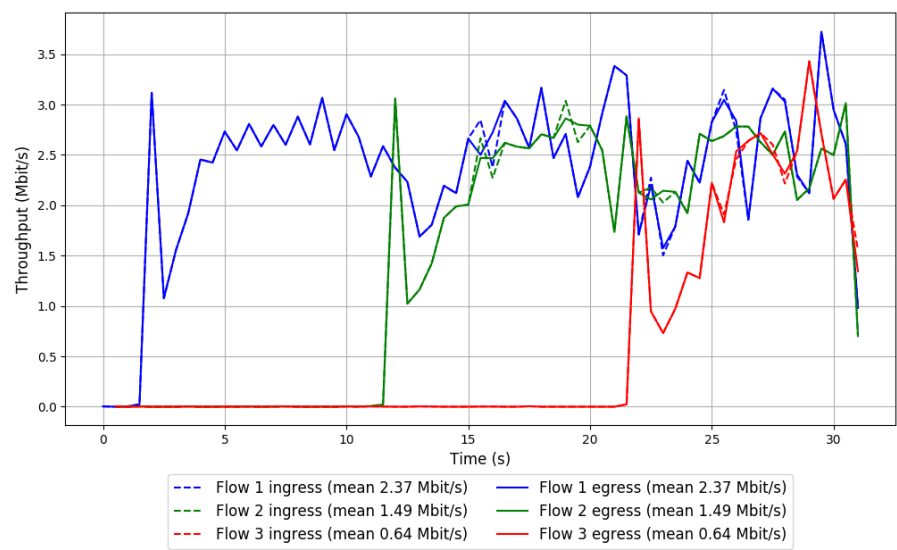
-- Flow 3:

Average throughput: 0.64 Mbit/s

95th percentile per-packet one-way delay: 3.571 ms

Loss rate: 0.54%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 11:18:59

End at: 2018-01-26 11:19:29

Local clock offset: -0.107 ms

Remote clock offset: 0.591 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 3.267 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 5.658 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.58 Mbit/s

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

Loss rate: 0.14%

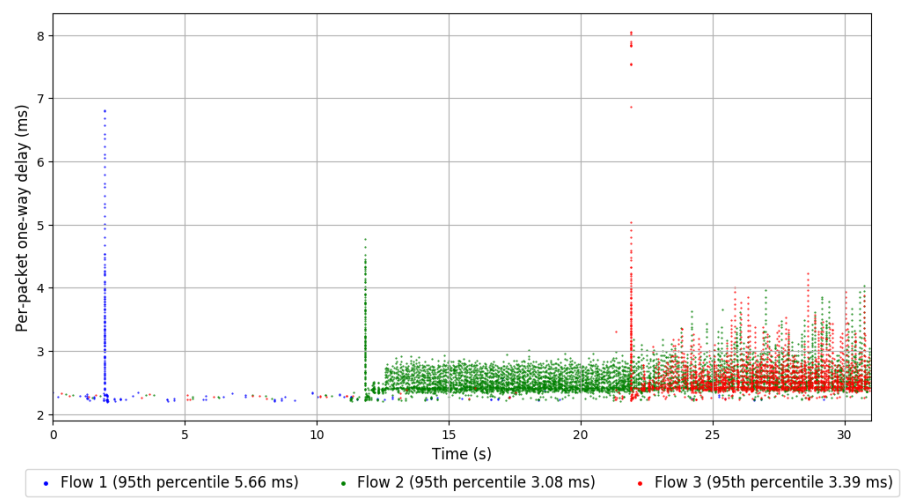
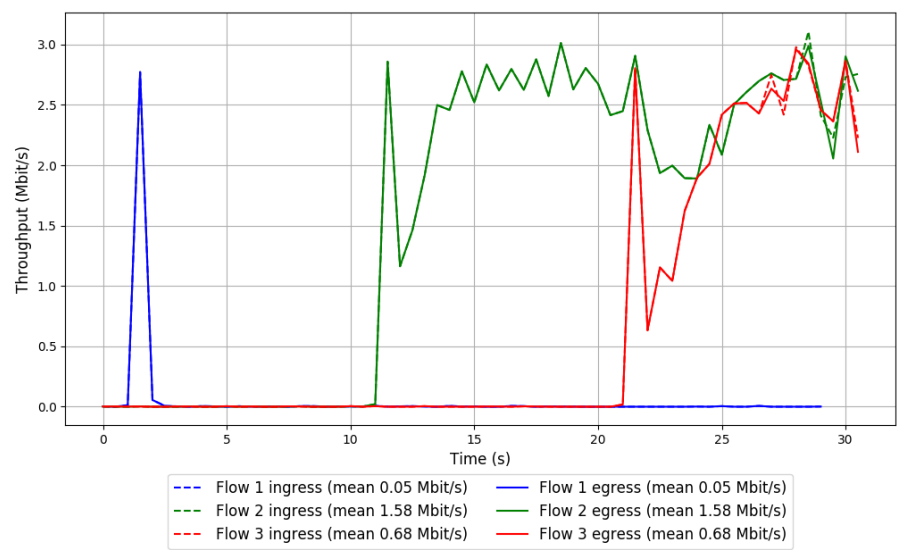
-- Flow 3:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 3.386 ms

Loss rate: 0.27%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 11:37:04

End at: 2018-01-26 11:37:34

Local clock offset: -0.19 ms

Remote clock offset: 0.87 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 3.084 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.585 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.52 Mbit/s

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

Loss rate: 0.02%

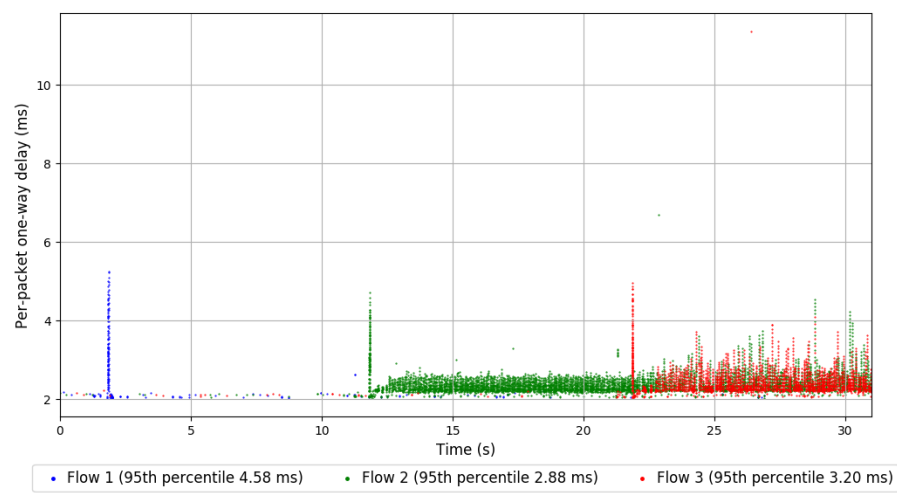
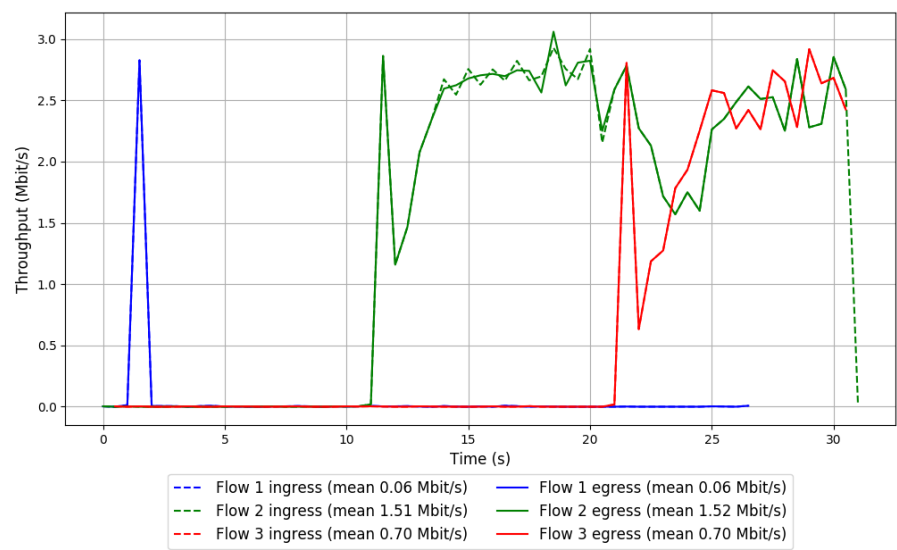
-- Flow 3:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 3.201 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 11:55:07

End at: 2018-01-26 11:55:37

Local clock offset: -0.116 ms

Remote clock offset: 0.78 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

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

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.39 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: 3.297 ms

Loss rate: 0.04%

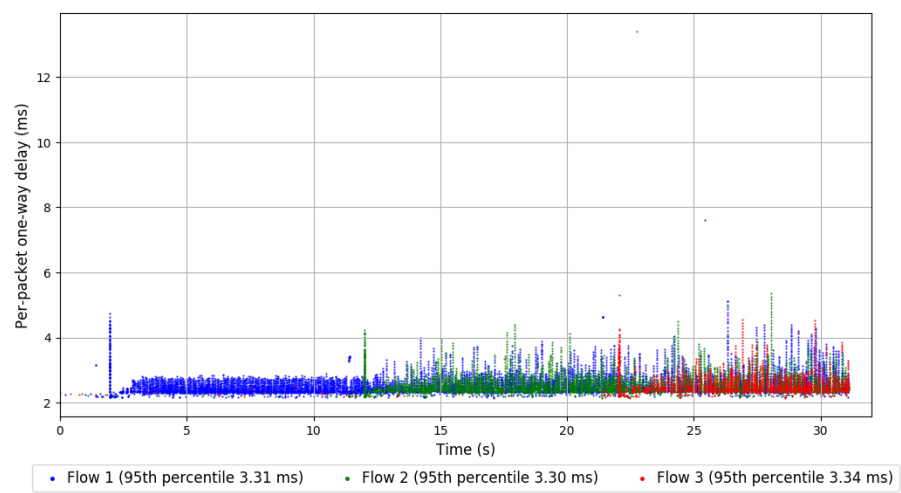
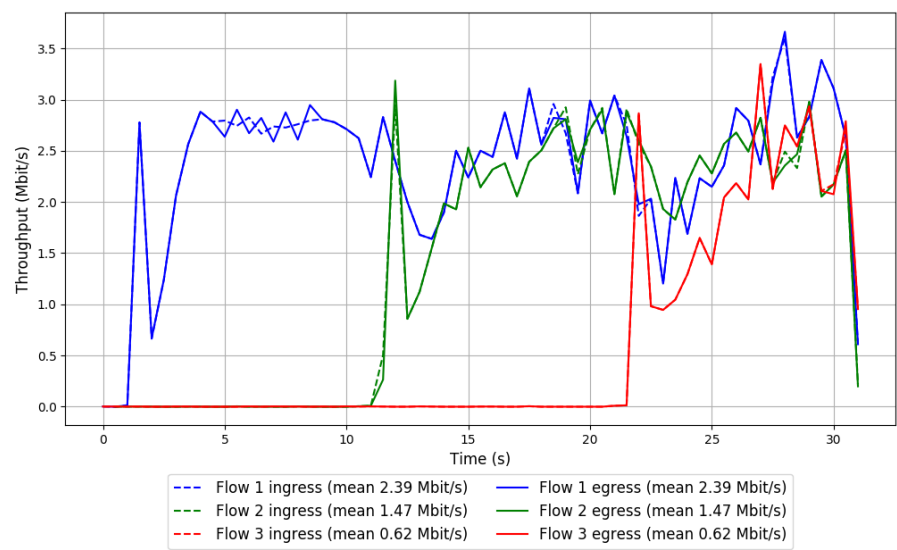
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 3.336 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 12:13:11

End at: 2018-01-26 12:13:41

Local clock offset: -0.059 ms

Remote clock offset: 0.714 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 3.401 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 3.279 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 3.447 ms

Loss rate: 0.00%

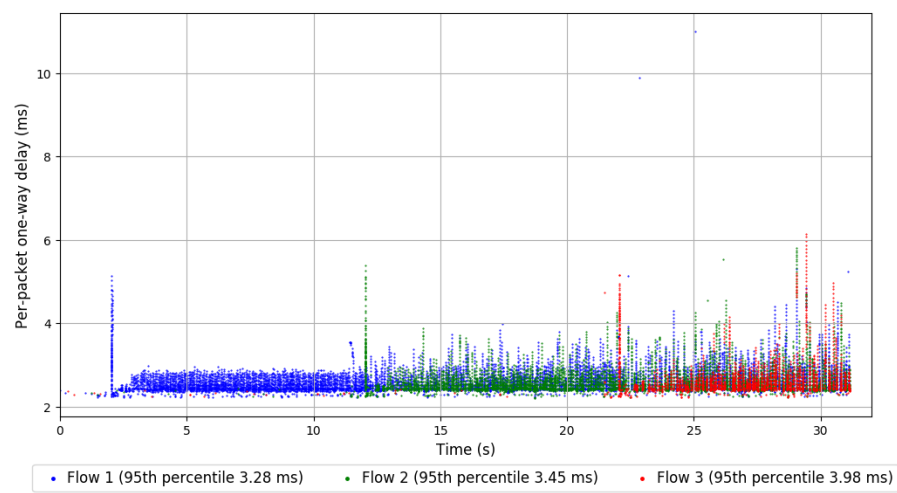
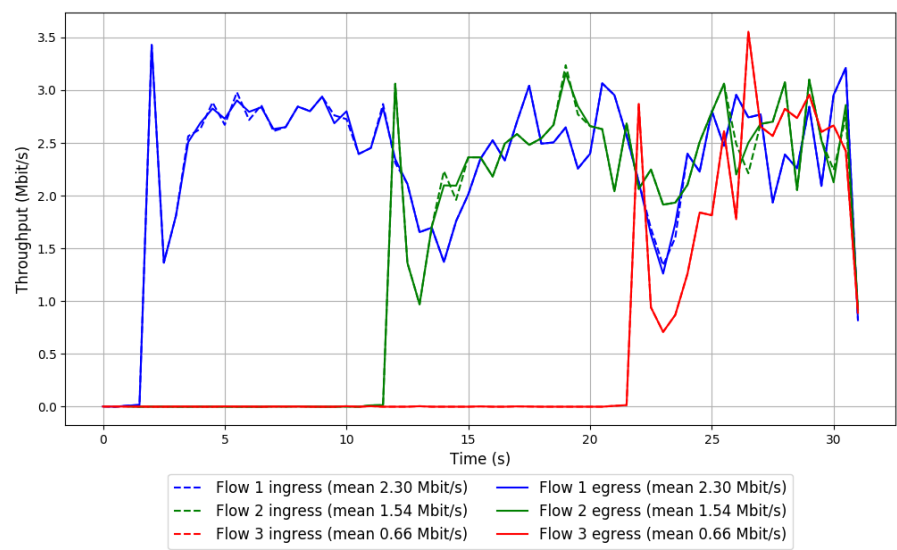
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 3.975 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 12:31:15

End at: 2018-01-26 12:31:45

Local clock offset: -0.046 ms

Remote clock offset: 0.558 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 3.177 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 4.162 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 3.035 ms

Loss rate: 0.00%

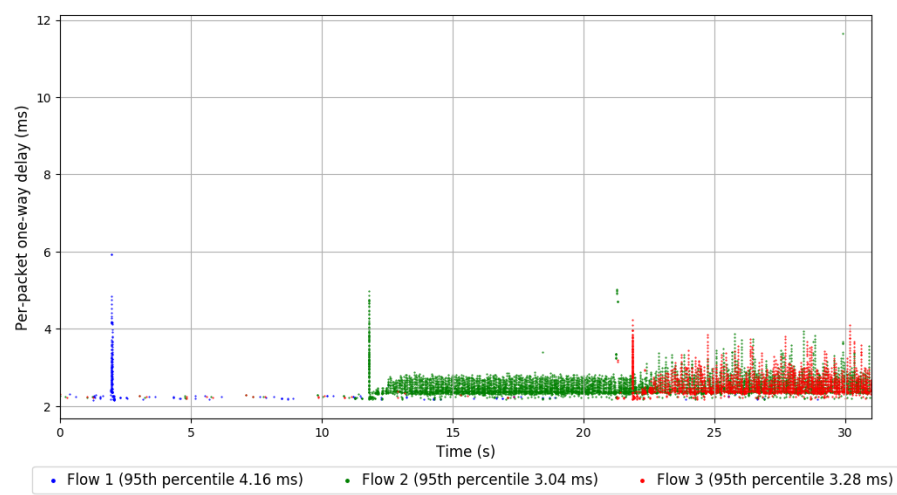
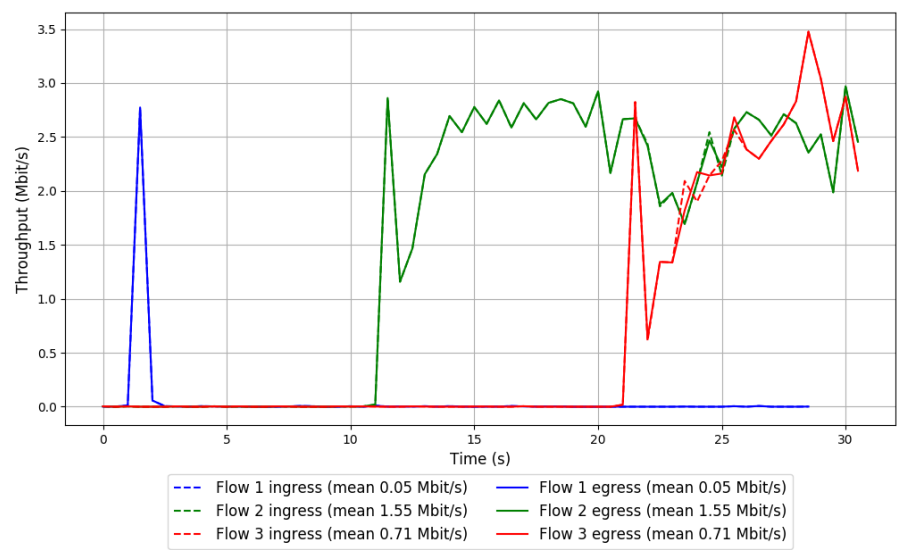
-- Flow 3:

Average throughput: 0.71 Mbit/s

95th percentile per-packet one-way delay: 3.283 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 12:49:19

End at: 2018-01-26 12:49:49

Local clock offset: -0.041 ms

Remote clock offset: 0.407 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.42 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.38 Mbit/s

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

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 3.071 ms

Loss rate: 0.00%

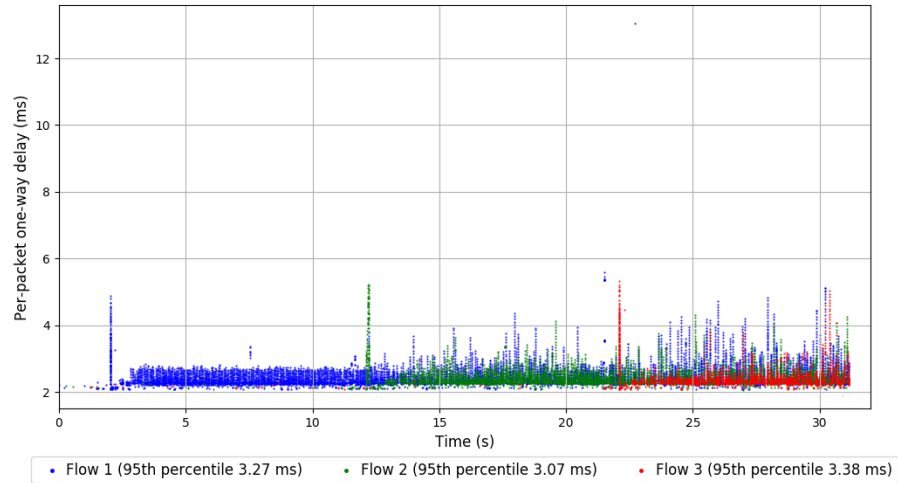
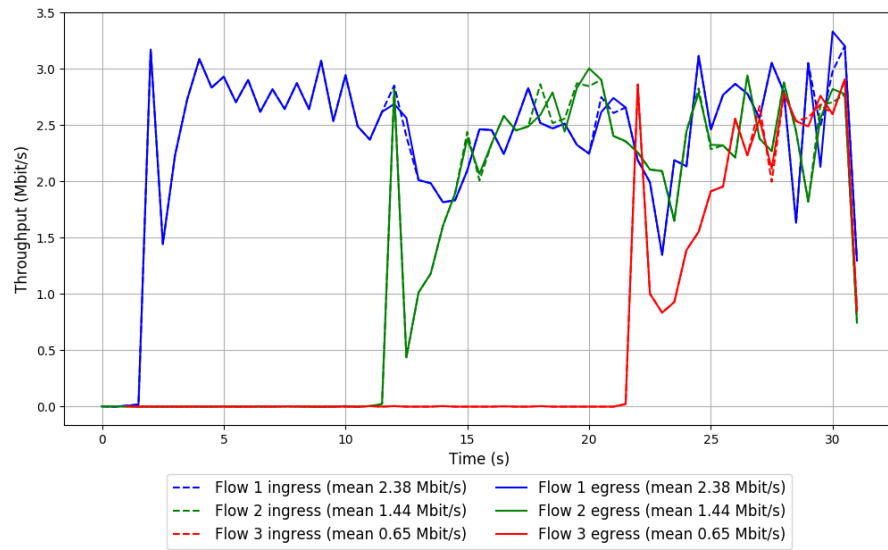
-- Flow 3:

Average throughput: 0.65 Mbit/s

95th percentile per-packet one-way delay: 3.376 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 13:07:22

End at: 2018-01-26 13:07:52

Local clock offset: 0.084 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.40 Mbit/s

95th percentile per-packet one-way delay: 3.316 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 3.355 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 3.289 ms

Loss rate: 0.00%

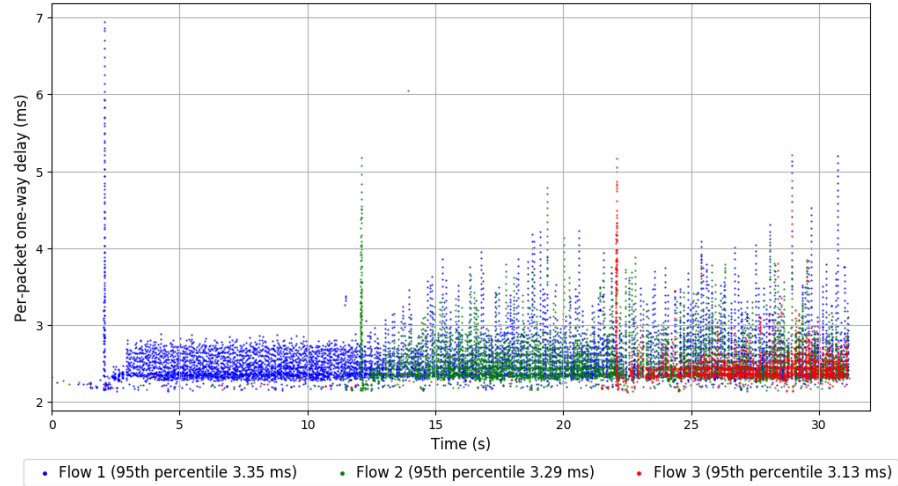
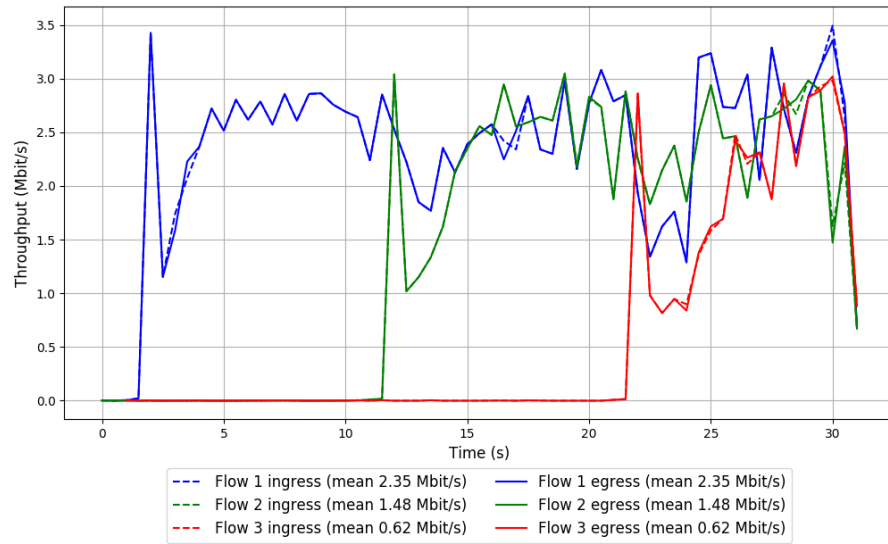
-- Flow 3:

Average throughput: 0.62 Mbit/s

95th percentile per-packet one-way delay: 3.128 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 13:25:26

End at: 2018-01-26 13:25:56

Local clock offset: 0.157 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-01-26 16:43:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 3.405 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 3.298 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.49 Mbit/s

95th percentile per-packet one-way delay: 3.456 ms

Loss rate: 0.00%

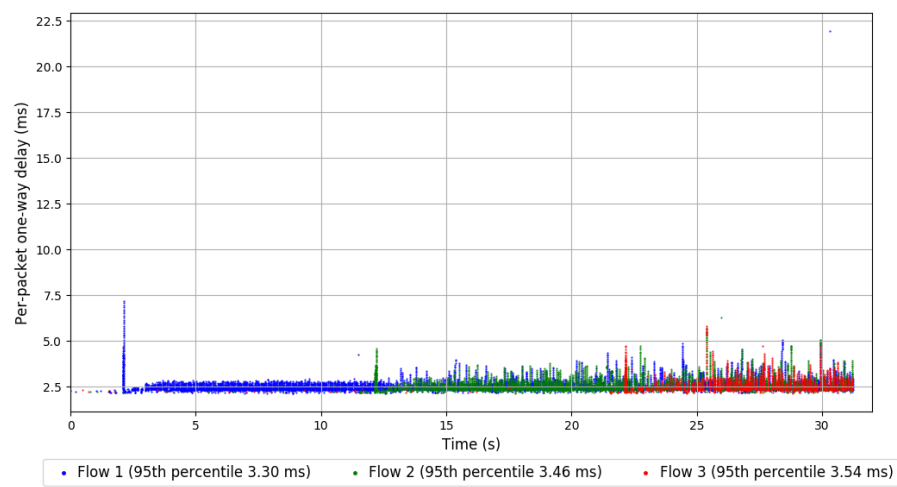
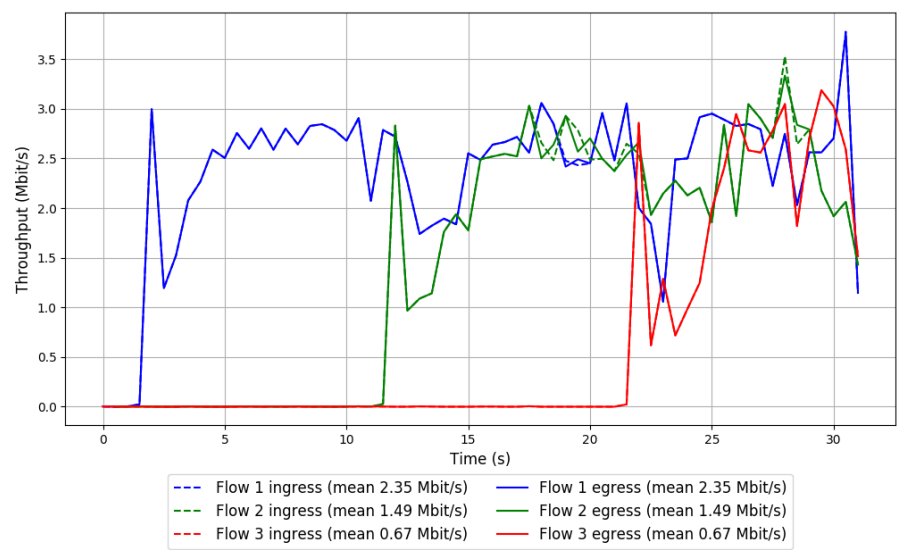
-- Flow 3:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 3.542 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-26 10:43:58

End at: 2018-01-26 10:44:28

Local clock offset: -0.157 ms

Remote clock offset: 0.264 ms

Below is generated by plot.py at 2018-01-26 16:43:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.09 Mbit/s

95th percentile per-packet one-way delay: 19.453 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 44.49 Mbit/s

95th percentile per-packet one-way delay: 17.978 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 36.79 Mbit/s

95th percentile per-packet one-way delay: 19.688 ms

Loss rate: 0.05%

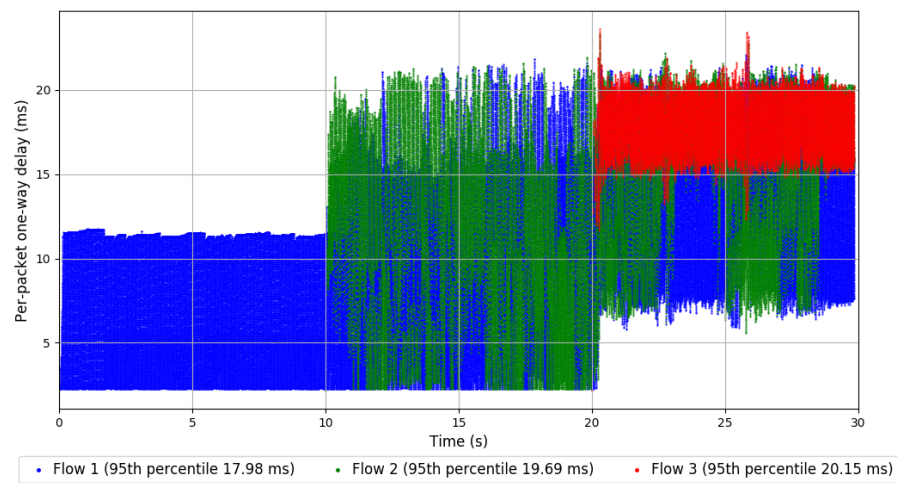
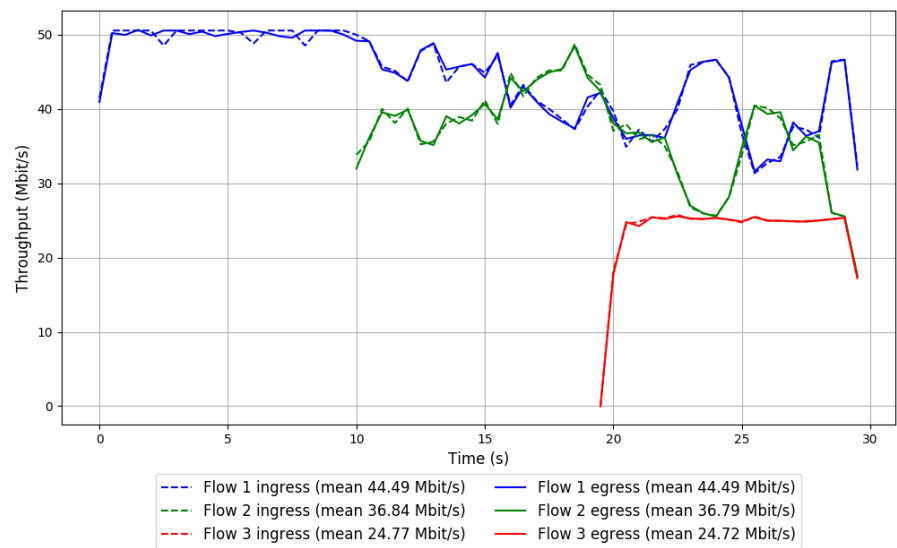
-- Flow 3:

Average throughput: 24.72 Mbit/s

95th percentile per-packet one-way delay: 20.151 ms

Loss rate: 0.21%

Run 1: Report of Sprout — Data Link

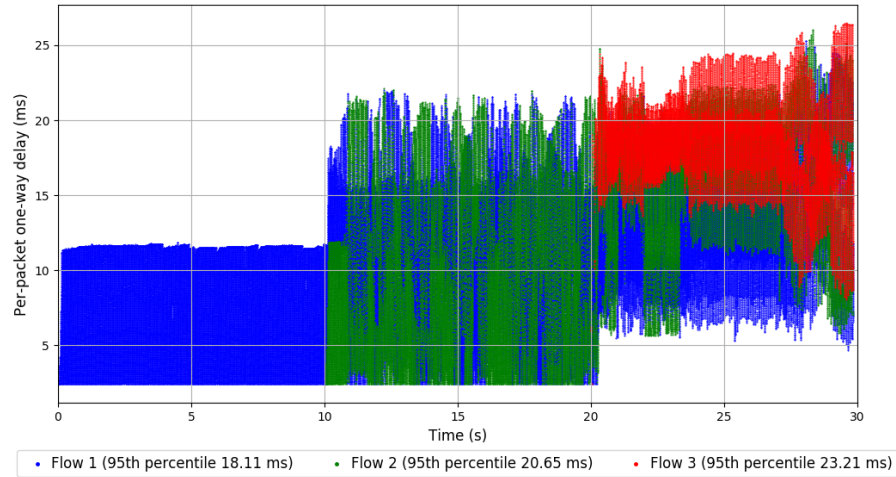
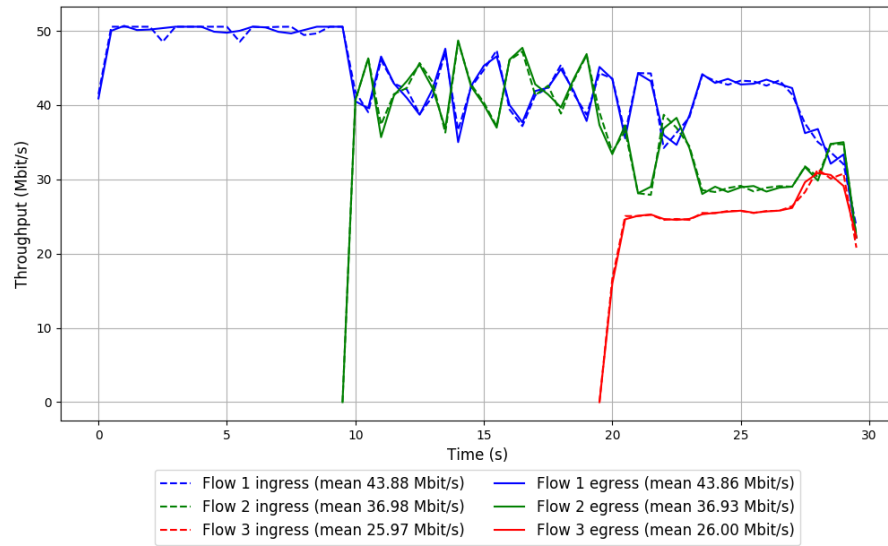


Run 2: Statistics of Sprout

Start at: 2018-01-26 11:02:00
End at: 2018-01-26 11:02:30
Local clock offset: -0.107 ms
Remote clock offset: 0.387 ms

Below is generated by plot.py at 2018-01-26 16:43:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.00 Mbit/s
95th percentile per-packet one-way delay: 20.443 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 43.86 Mbit/s
95th percentile per-packet one-way delay: 18.110 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 36.93 Mbit/s
95th percentile per-packet one-way delay: 20.647 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 26.00 Mbit/s
95th percentile per-packet one-way delay: 23.208 ms
Loss rate: 0.06%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 11:20:03

End at: 2018-01-26 11:20:33

Local clock offset: -0.093 ms

Remote clock offset: 0.665 ms

Below is generated by plot.py at 2018-01-26 16:43:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 22.444 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 40.88 Mbit/s

95th percentile per-packet one-way delay: 22.221 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 38.44 Mbit/s

95th percentile per-packet one-way delay: 21.912 ms

Loss rate: 0.00%

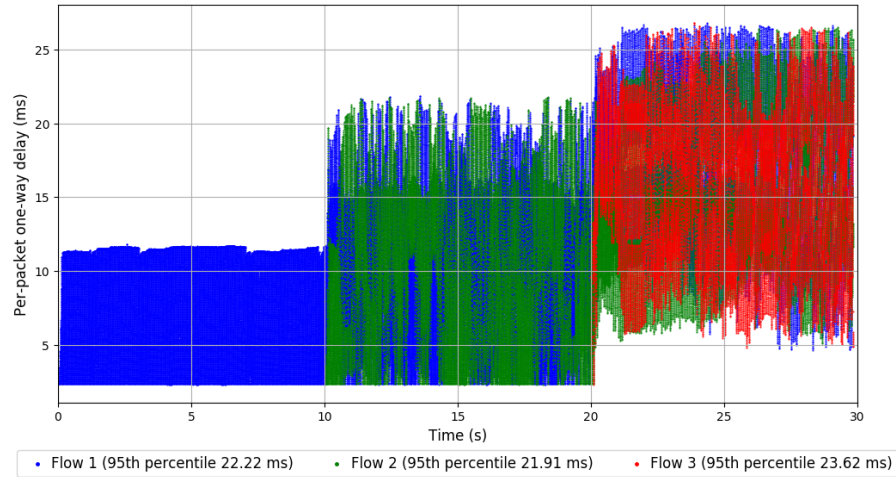
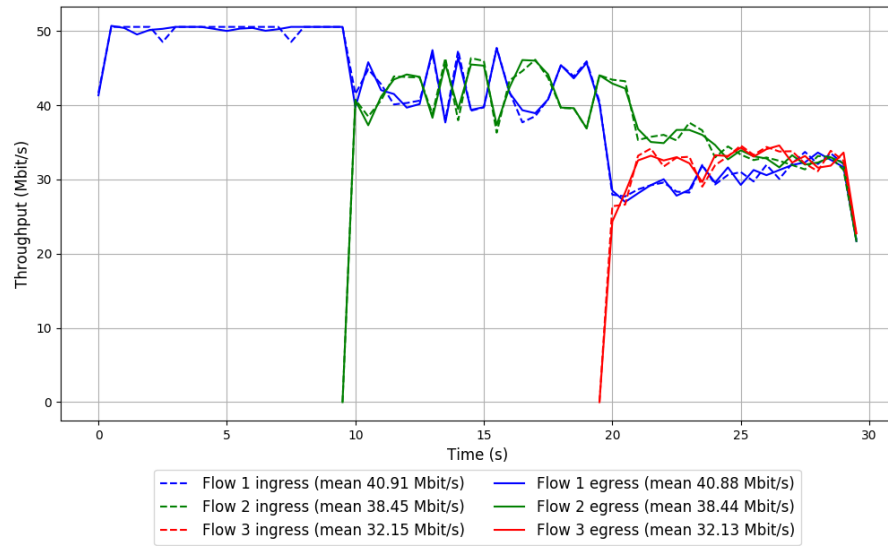
-- Flow 3:

Average throughput: 32.13 Mbit/s

95th percentile per-packet one-way delay: 23.624 ms

Loss rate: 0.11%

Run 3: Report of Sprout — Data Link

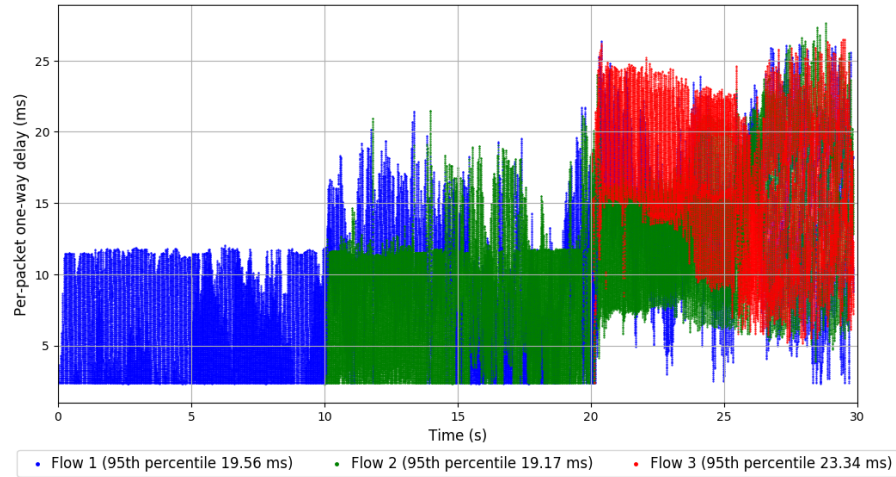
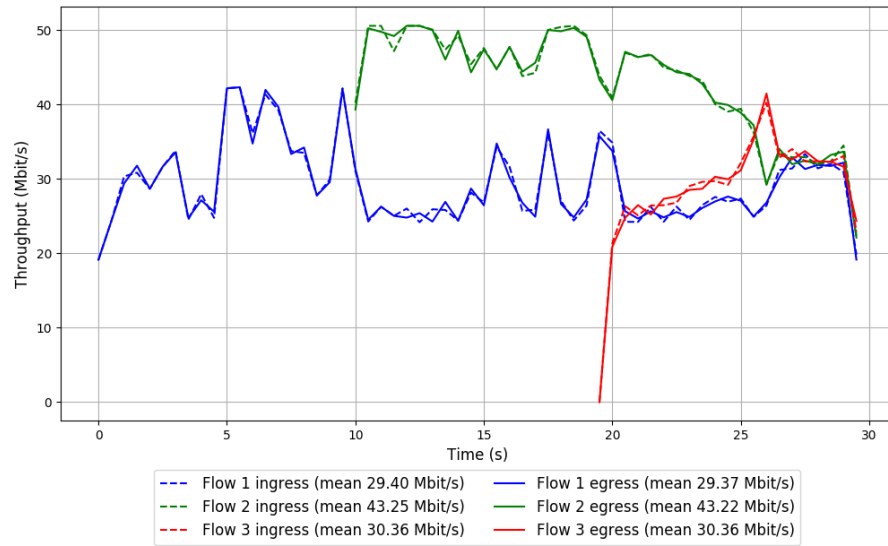


Run 4: Statistics of Sprout

Start at: 2018-01-26 11:38:08
End at: 2018-01-26 11:38:38
Local clock offset: -0.095 ms
Remote clock offset: 0.83 ms

```
# Below is generated by plot.py at 2018-01-26 16:43:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.11 Mbit/s
95th percentile per-packet one-way delay: 21.055 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 19.560 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 43.22 Mbit/s
95th percentile per-packet one-way delay: 19.171 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 23.340 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

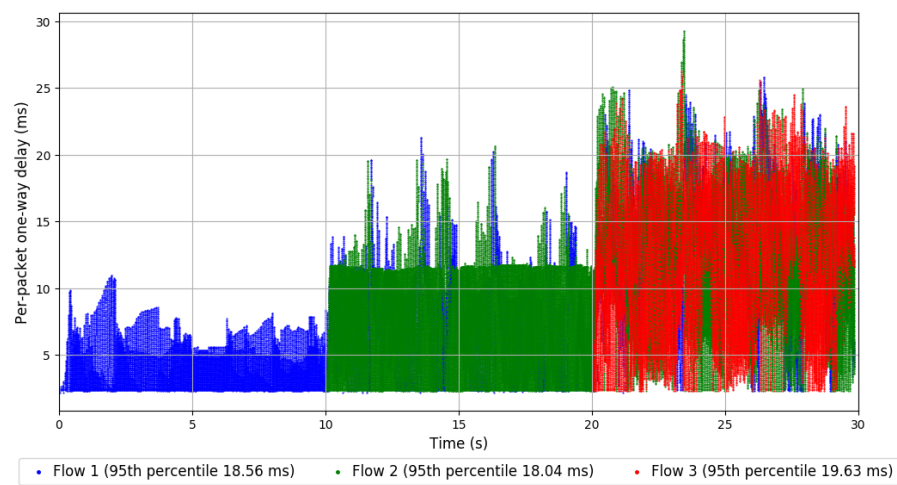
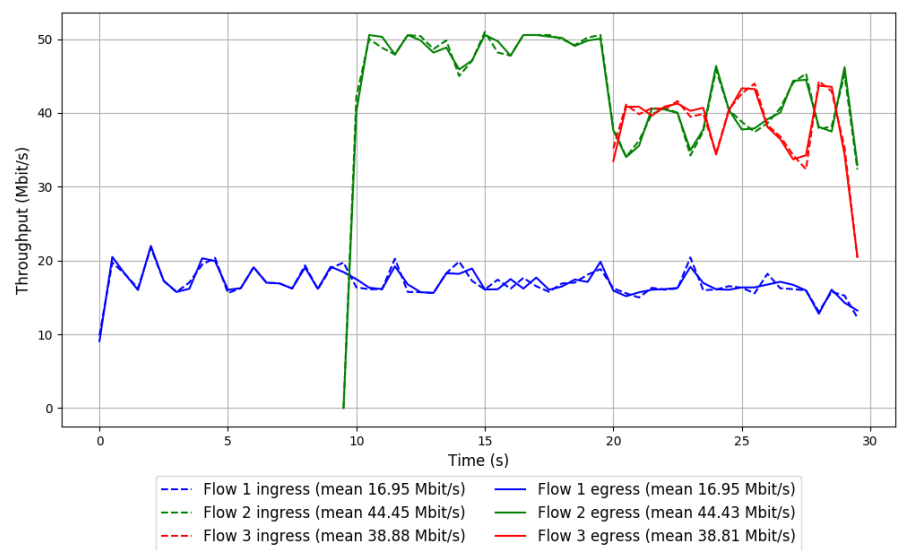


Run 5: Statistics of Sprout

Start at: 2018-01-26 11:56:11
End at: 2018-01-26 11:56:41
Local clock offset: -0.169 ms
Remote clock offset: 0.721 ms

Below is generated by plot.py at 2018-01-26 16:43:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.29 Mbit/s
95th percentile per-packet one-way delay: 18.700 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 16.95 Mbit/s
95th percentile per-packet one-way delay: 18.561 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.43 Mbit/s
95th percentile per-packet one-way delay: 18.043 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.81 Mbit/s
95th percentile per-packet one-way delay: 19.630 ms
Loss rate: 0.11%

Run 5: Report of Sprout — Data Link

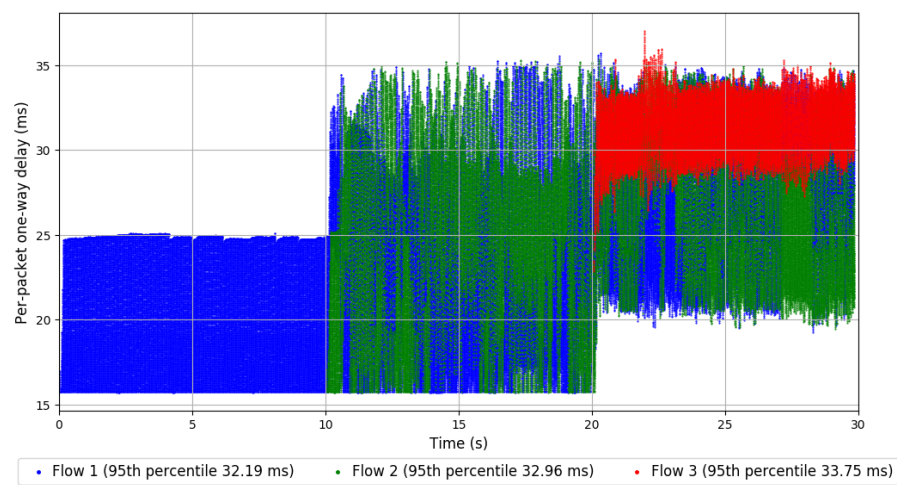
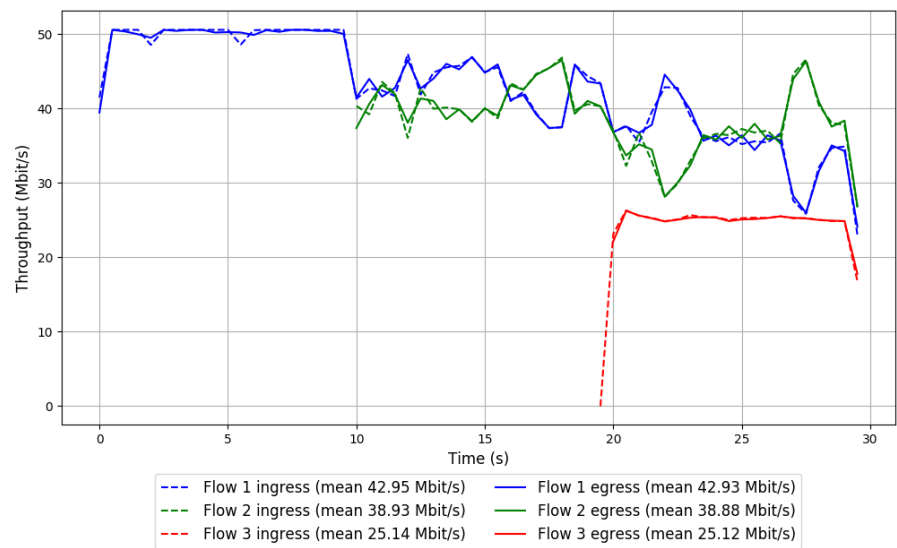


Run 6: Statistics of Sprout

Start at: 2018-01-26 12:14:15
End at: 2018-01-26 12:14:45
Local clock offset: -0.146 ms
Remote clock offset: -12.718 ms

Below is generated by plot.py at 2018-01-26 16:44:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 32.986 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 42.93 Mbit/s
95th percentile per-packet one-way delay: 32.191 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 38.88 Mbit/s
95th percentile per-packet one-way delay: 32.958 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 33.752 ms
Loss rate: 0.20%

Run 6: Report of Sprout — Data Link

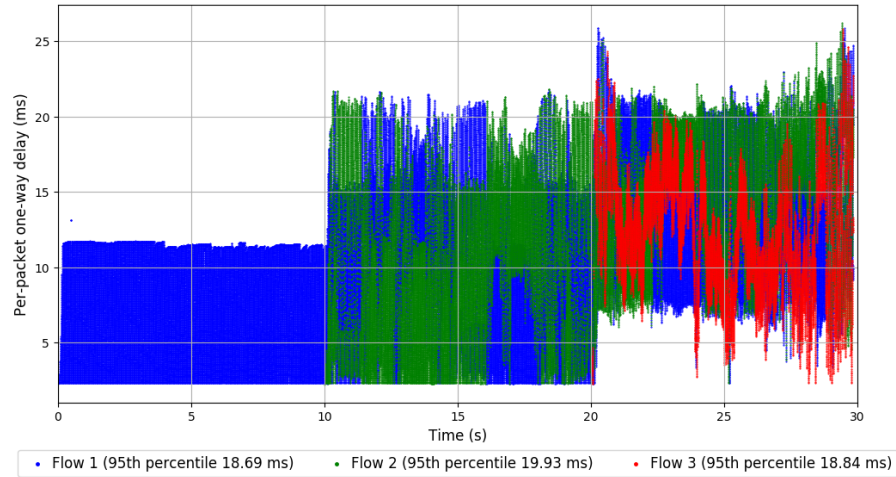
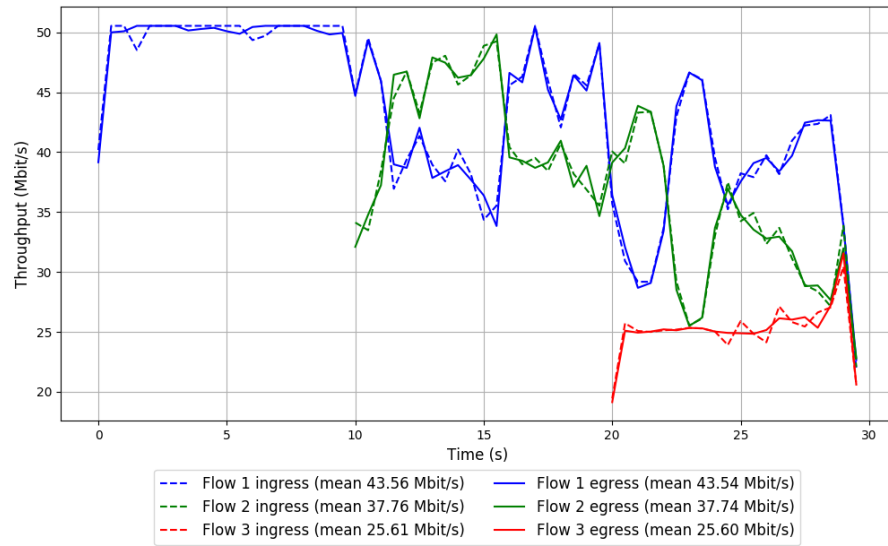


Run 7: Statistics of Sprout

Start at: 2018-01-26 12:32:19
End at: 2018-01-26 12:32:49
Local clock offset: -0.044 ms
Remote clock offset: 0.58 ms

Below is generated by plot.py at 2018-01-26 16:44:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 19.335 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 43.54 Mbit/s
95th percentile per-packet one-way delay: 18.692 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 37.74 Mbit/s
95th percentile per-packet one-way delay: 19.932 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 25.60 Mbit/s
95th percentile per-packet one-way delay: 18.844 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 12:50:23

End at: 2018-01-26 12:50:53

Local clock offset: 0.052 ms

Remote clock offset: 0.323 ms

Below is generated by plot.py at 2018-01-26 16:44:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 19.978 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 42.69 Mbit/s

95th percentile per-packet one-way delay: 19.206 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 39.31 Mbit/s

95th percentile per-packet one-way delay: 19.700 ms

Loss rate: 0.10%

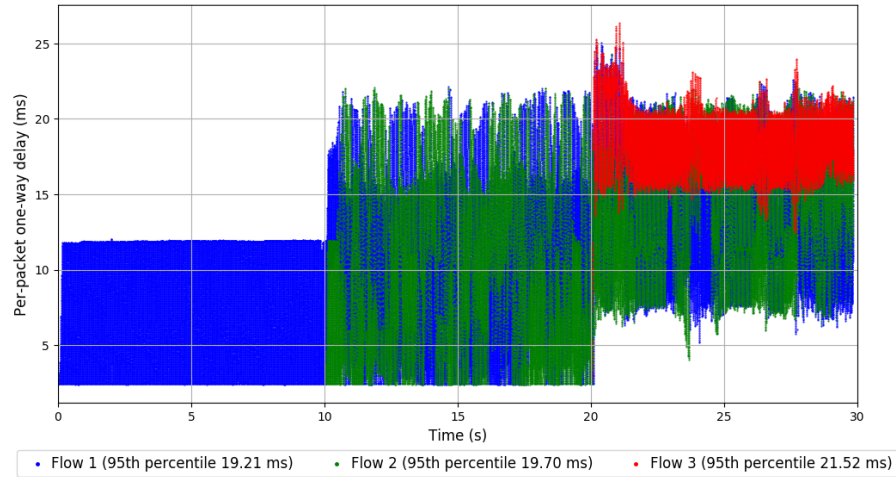
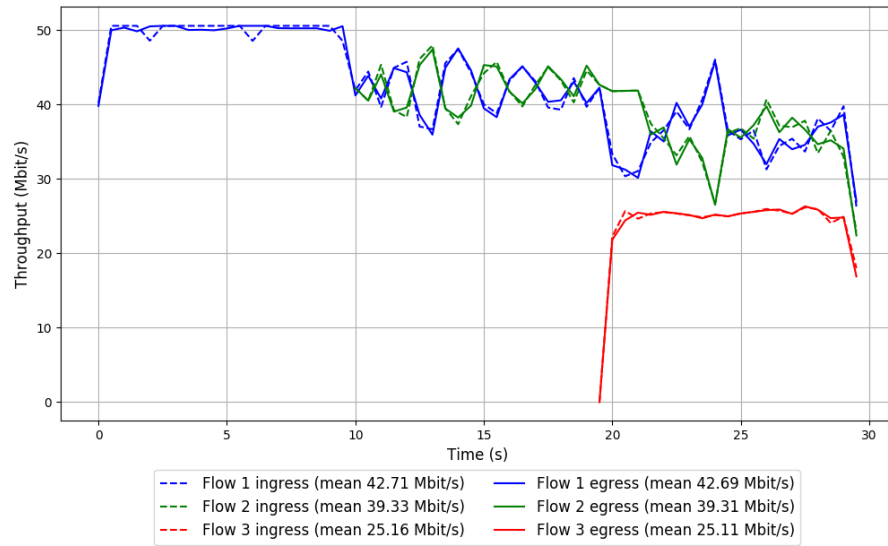
-- Flow 3:

Average throughput: 25.11 Mbit/s

95th percentile per-packet one-way delay: 21.521 ms

Loss rate: 0.31%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 13:08:26

End at: 2018-01-26 13:08:56

Local clock offset: 0.019 ms

Remote clock offset: 0.149 ms

Below is generated by plot.py at 2018-01-26 16:44:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 53.81 Mbit/s

95th percentile per-packet one-way delay: 13.447 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 16.22 Mbit/s

95th percentile per-packet one-way delay: 13.634 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 13.183 ms

Loss rate: 0.00%

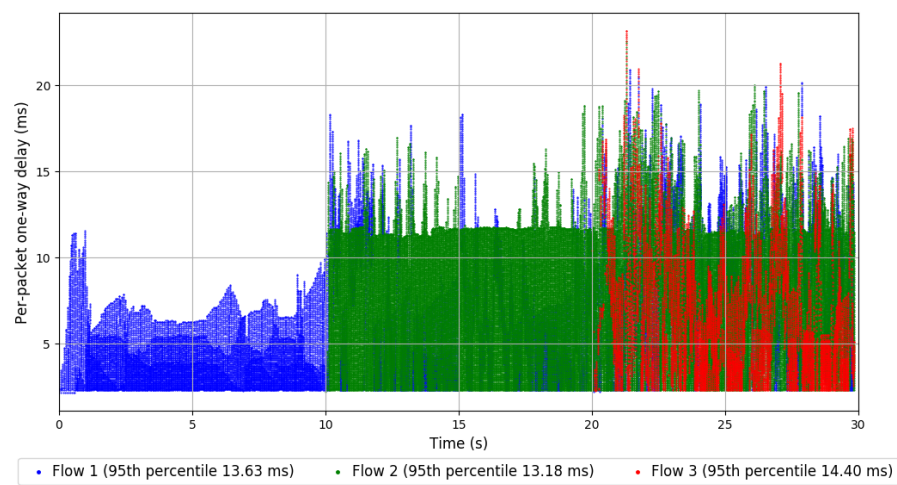
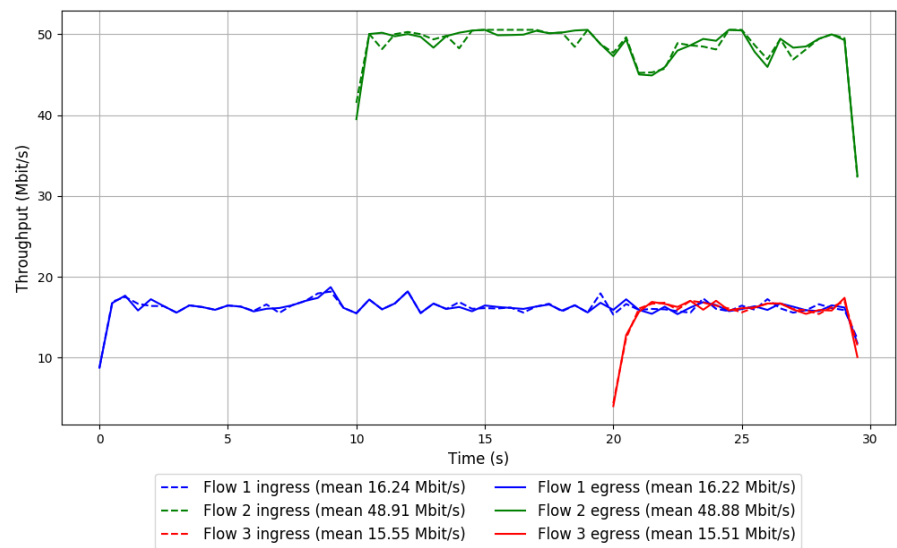
-- Flow 3:

Average throughput: 15.51 Mbit/s

95th percentile per-packet one-way delay: 14.405 ms

Loss rate: 0.48%

Run 9: Report of Sprout — Data Link

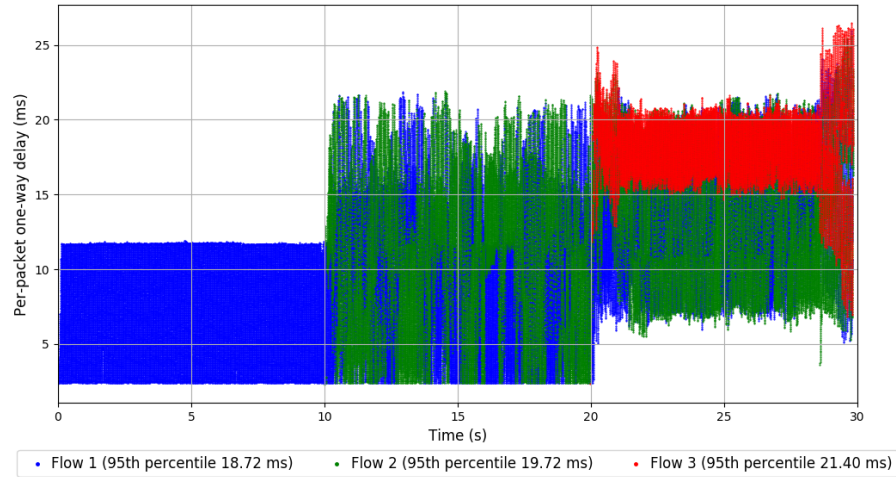
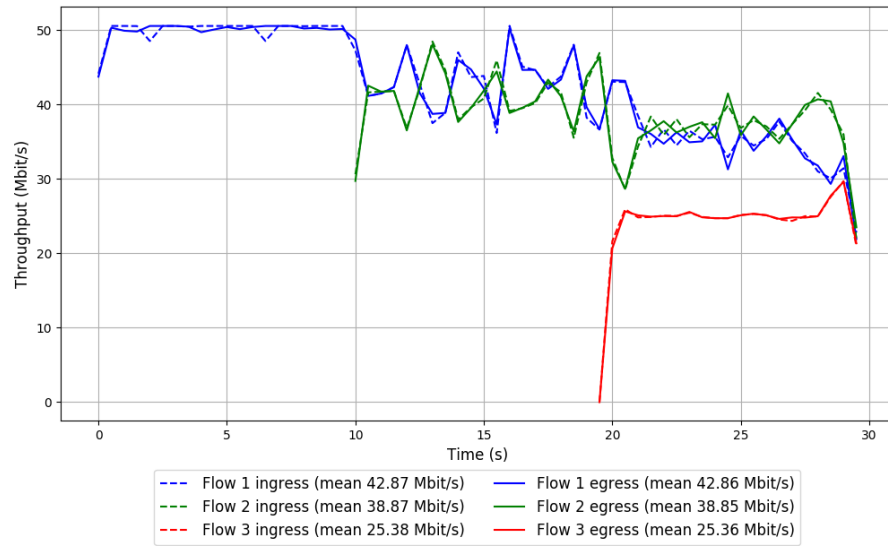


Run 10: Statistics of Sprout

Start at: 2018-01-26 13:26:31
End at: 2018-01-26 13:27:01
Local clock offset: 0.141 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-01-26 16:44:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.02 Mbit/s
95th percentile per-packet one-way delay: 19.786 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 42.86 Mbit/s
95th percentile per-packet one-way delay: 18.722 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.85 Mbit/s
95th percentile per-packet one-way delay: 19.717 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 21.396 ms
Loss rate: 0.04%

Run 10: Report of Sprout — Data Link

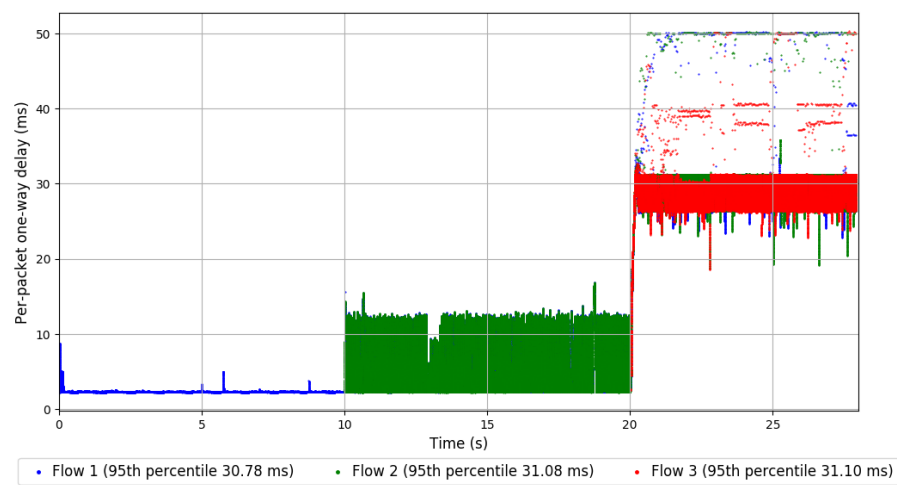
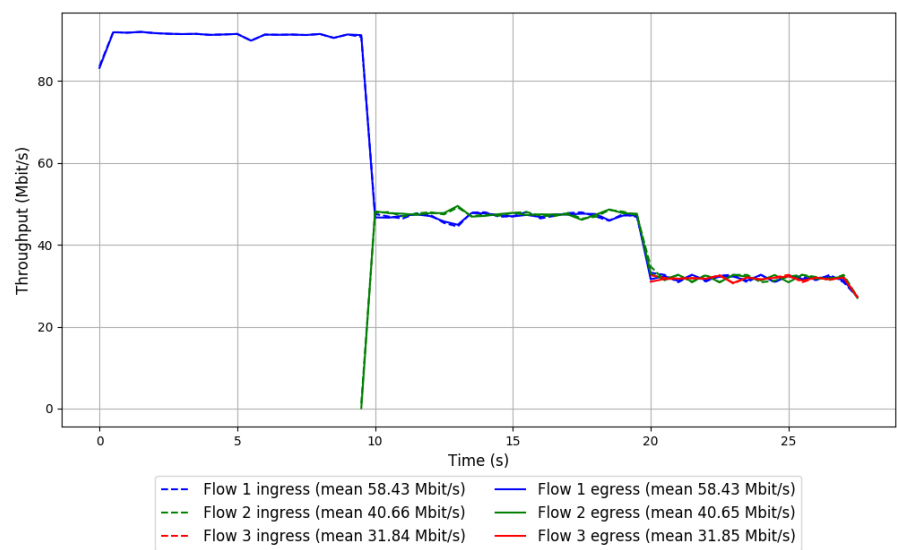


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 10:50:37
End at: 2018-01-26 10:51:07
Local clock offset: -0.176 ms
Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2018-01-26 16:45:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 31.020 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 30.776 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.65 Mbit/s
95th percentile per-packet one-way delay: 31.082 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 31.099 ms
Loss rate: 0.36%
```


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

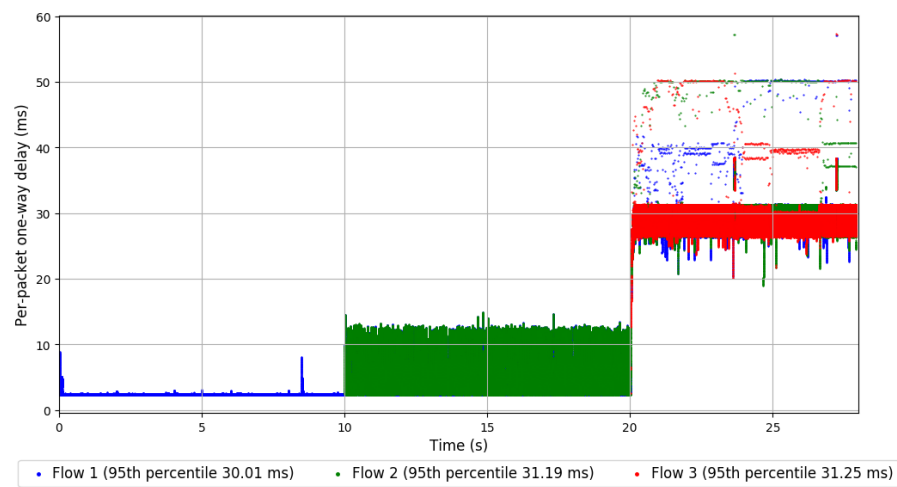
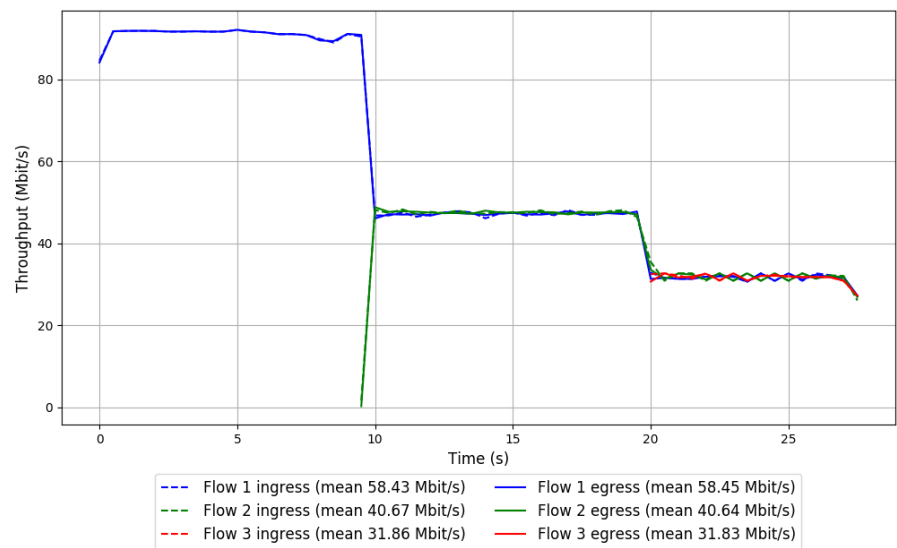


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 11:08:41
End at: 2018-01-26 11:09:11
Local clock offset: -0.095 ms
Remote clock offset: 0.467 ms

# Below is generated by plot.py at 2018-01-26 16:45:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 31.135 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 58.45 Mbit/s
95th percentile per-packet one-way delay: 30.014 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.64 Mbit/s
95th percentile per-packet one-way delay: 31.194 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 31.251 ms
Loss rate: 0.36%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 11:26:45

End at: 2018-01-26 11:27:15

Local clock offset: -0.146 ms

Remote clock offset: 0.743 ms

Below is generated by plot.py at 2018-01-26 16:45:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.20 Mbit/s

95th percentile per-packet one-way delay: 31.038 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 30.601 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 31.002 ms

Loss rate: 0.16%

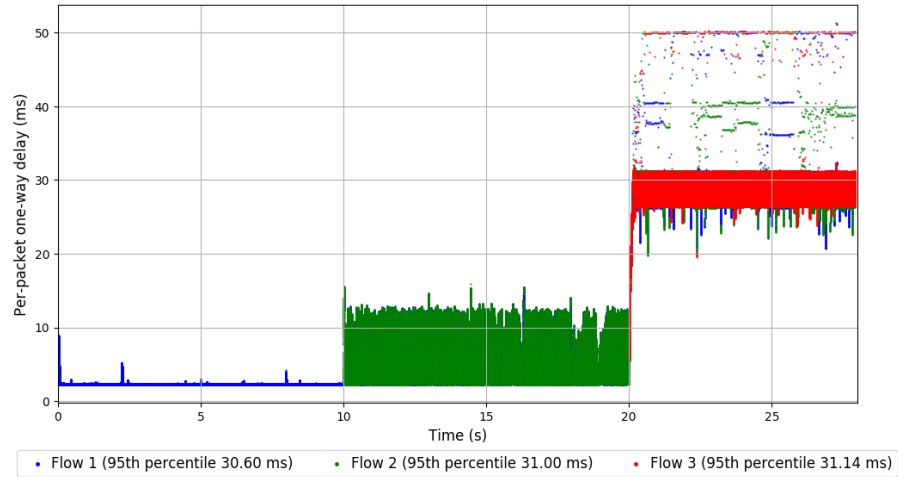
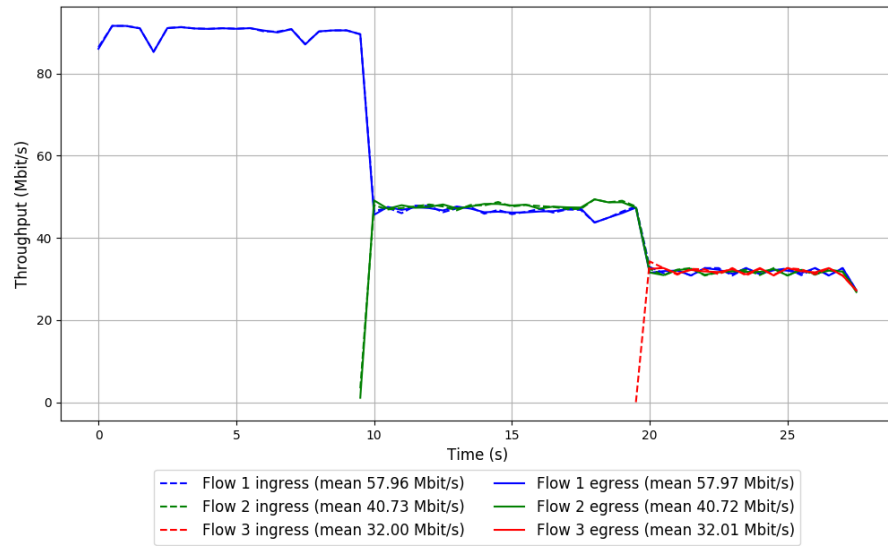
-- Flow 3:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 31.141 ms

Loss rate: 0.36%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 11:44:48

End at: 2018-01-26 11:45:18

Local clock offset: -0.111 ms

Remote clock offset: 0.766 ms

Below is generated by plot.py at 2018-01-26 16:46:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.48 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.48 Mbit/s

95th percentile per-packet one-way delay: 30.259 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 40.43 Mbit/s

95th percentile per-packet one-way delay: 31.148 ms

Loss rate: 0.13%

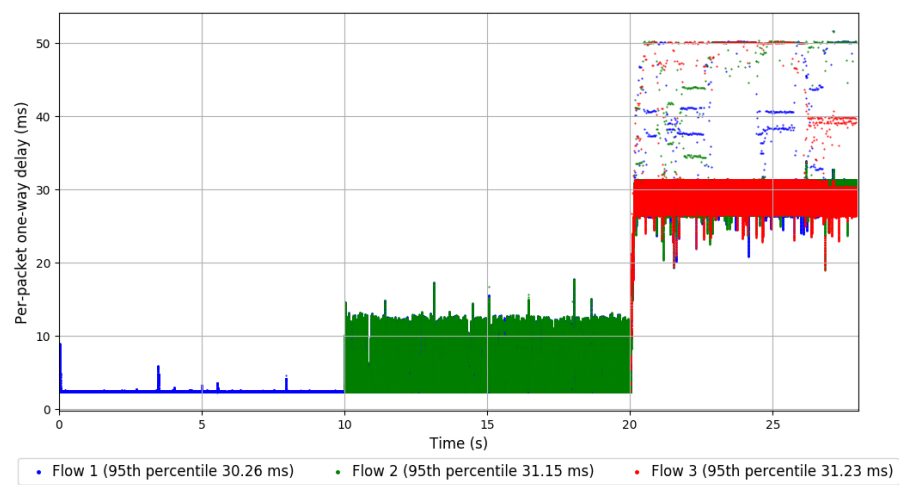
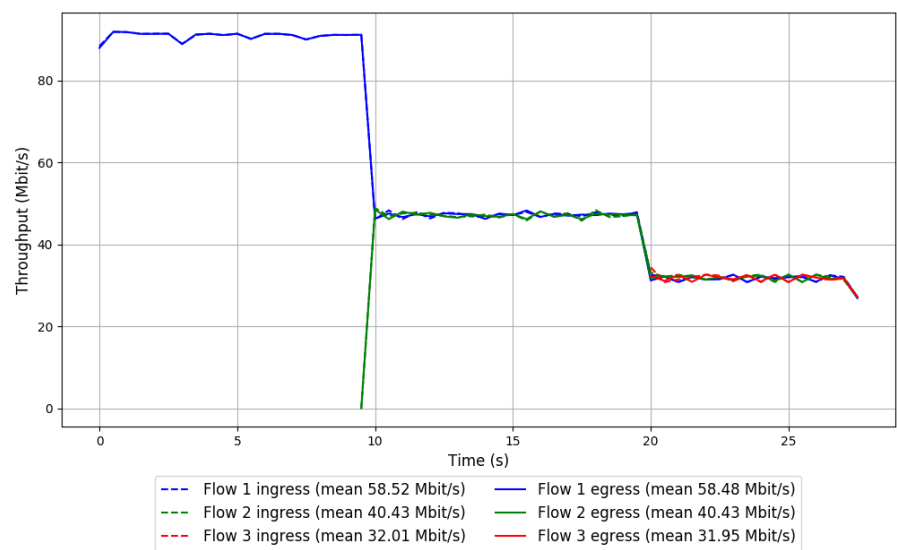
-- Flow 3:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 31.234 ms

Loss rate: 0.36%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 12:02:52

End at: 2018-01-26 12:03:22

Local clock offset: -0.159 ms

Remote clock offset: 0.739 ms

Below is generated by plot.py at 2018-01-26 16:46:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.29 Mbit/s

95th percentile per-packet one-way delay: 31.076 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 57.08 Mbit/s

95th percentile per-packet one-way delay: 30.773 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.83 Mbit/s

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

Loss rate: 0.15%

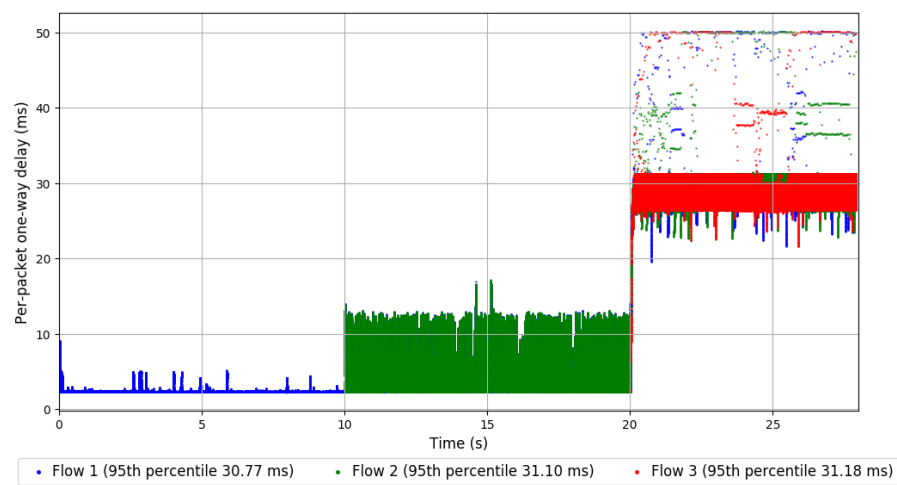
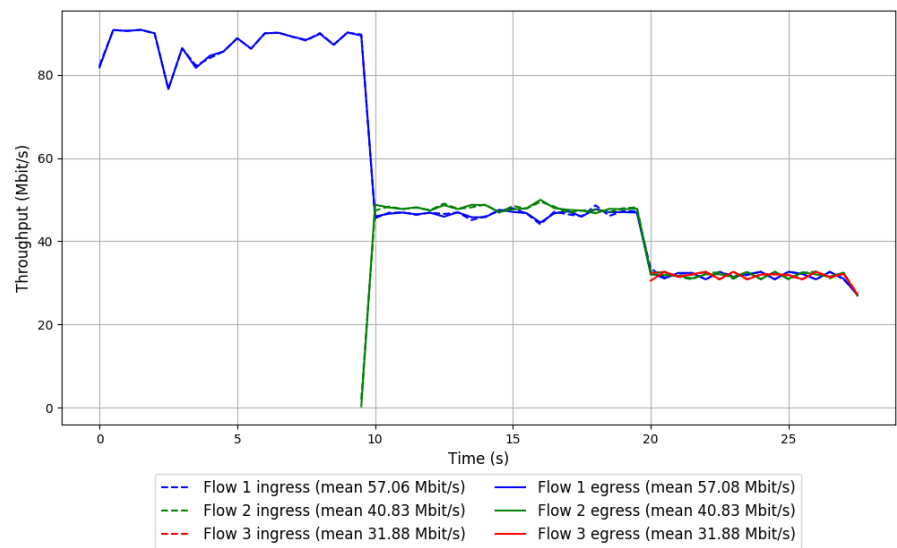
-- Flow 3:

Average throughput: 31.88 Mbit/s

95th percentile per-packet one-way delay: 31.176 ms

Loss rate: 0.36%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 12:20:56

End at: 2018-01-26 12:21:26

Local clock offset: -0.15 ms

Remote clock offset: 0.661 ms

Below is generated by plot.py at 2018-01-26 16:46:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 31.028 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 30.840 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 31.036 ms

Loss rate: 0.13%

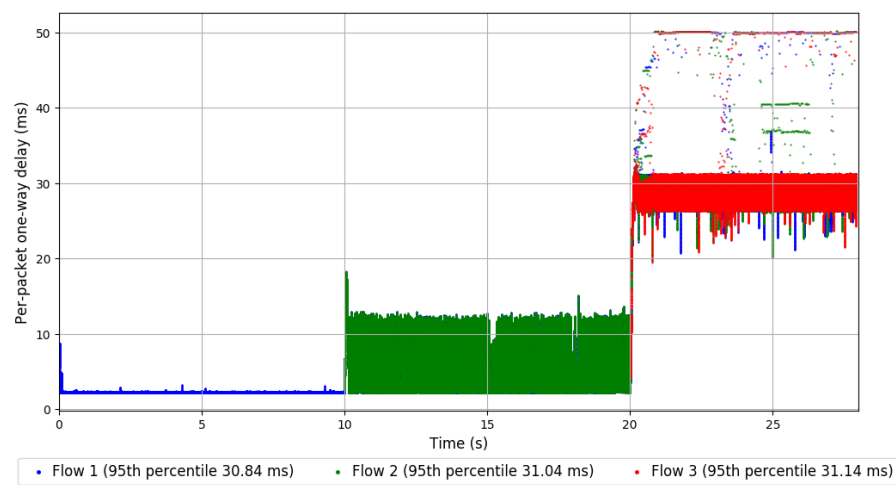
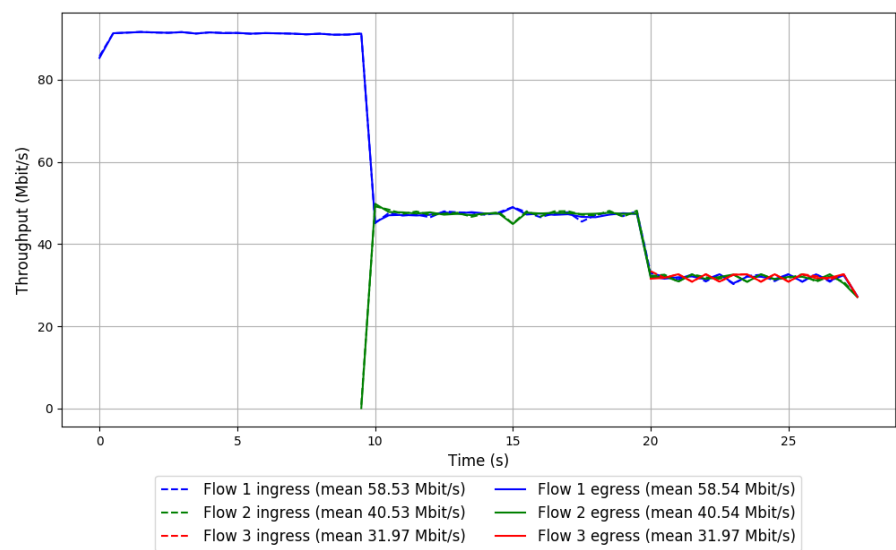
-- Flow 3:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 31.135 ms

Loss rate: 0.38%

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

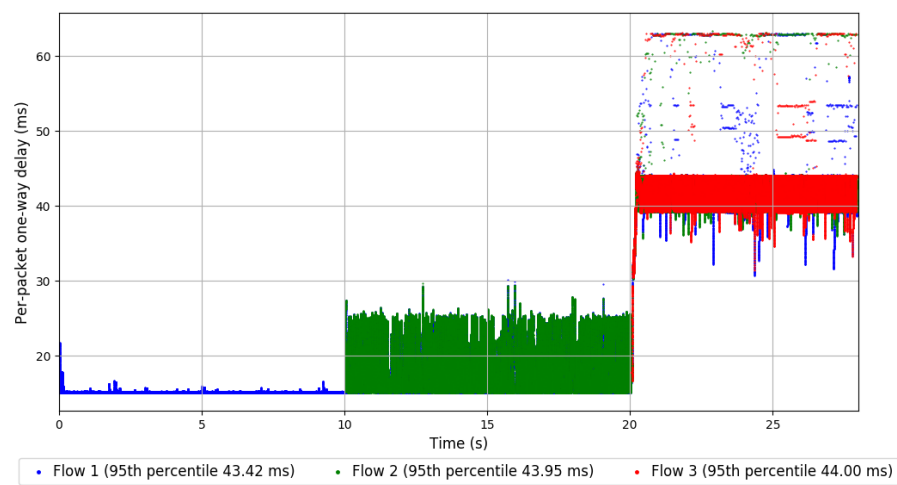
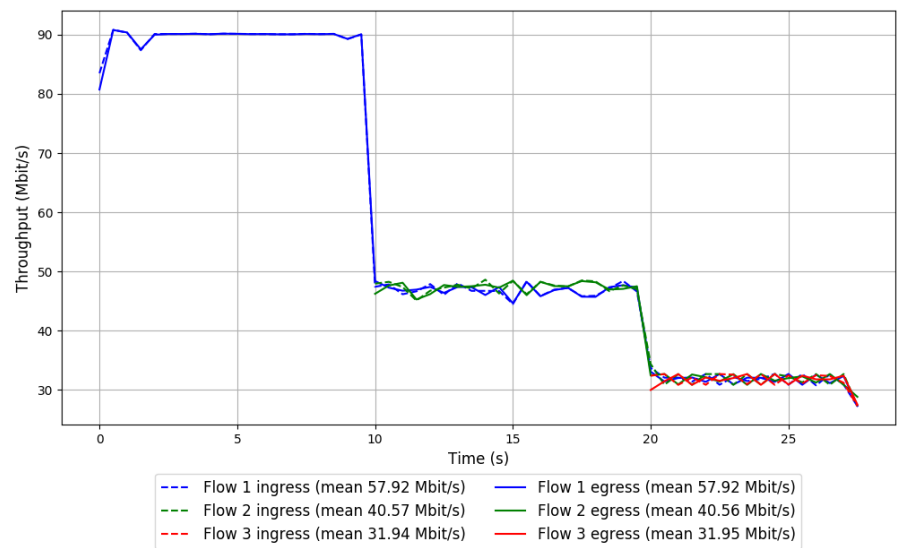


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 12:39:00
End at: 2018-01-26 12:39:30
Local clock offset: 0.006 ms
Remote clock offset: -12.335 ms

Below is generated by plot.py at 2018-01-26 16:46:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.94 Mbit/s
95th percentile per-packet one-way delay: 43.922 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 57.92 Mbit/s
95th percentile per-packet one-way delay: 43.419 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 43.949 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 31.95 Mbit/s
95th percentile per-packet one-way delay: 44.003 ms
Loss rate: 0.36%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 12:57:03

End at: 2018-01-26 12:57:33

Local clock offset: 0.047 ms

Remote clock offset: 0.26 ms

Below is generated by plot.py at 2018-01-26 16:47:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.26 Mbit/s

95th percentile per-packet one-way delay: 31.111 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 58.19 Mbit/s

95th percentile per-packet one-way delay: 30.612 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 40.57 Mbit/s

95th percentile per-packet one-way delay: 31.090 ms

Loss rate: 0.13%

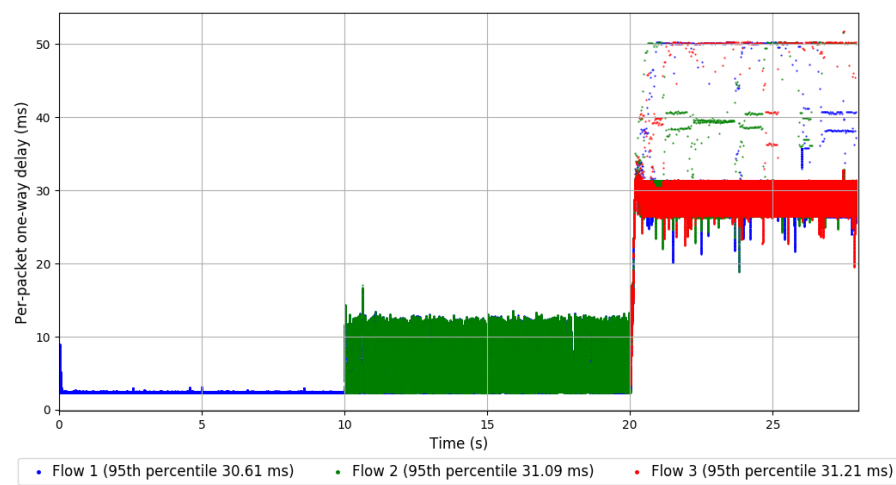
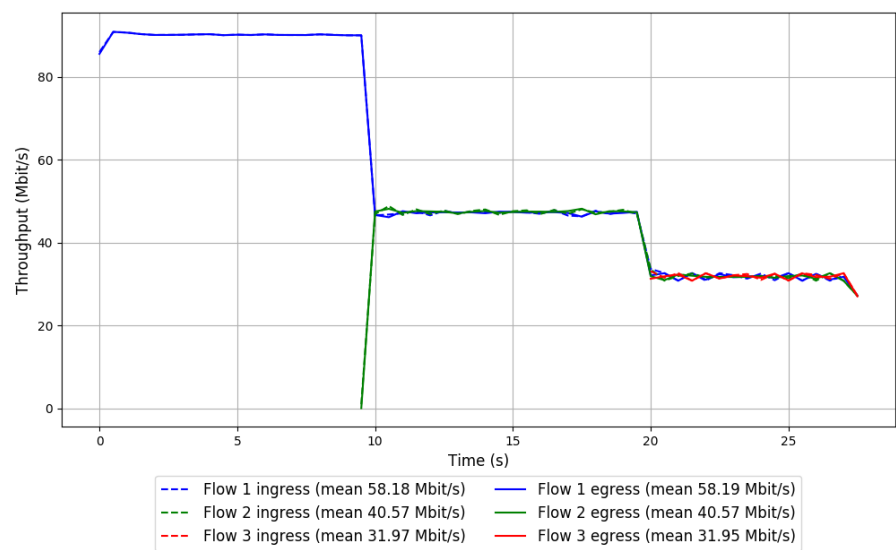
-- Flow 3:

Average throughput: 31.95 Mbit/s

95th percentile per-packet one-way delay: 31.215 ms

Loss rate: 0.40%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 13:15:05

End at: 2018-01-26 13:15:35

Local clock offset: 0.126 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-01-26 16:48:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

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

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 30.952 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 40.54 Mbit/s

95th percentile per-packet one-way delay: 30.663 ms

Loss rate: 0.13%

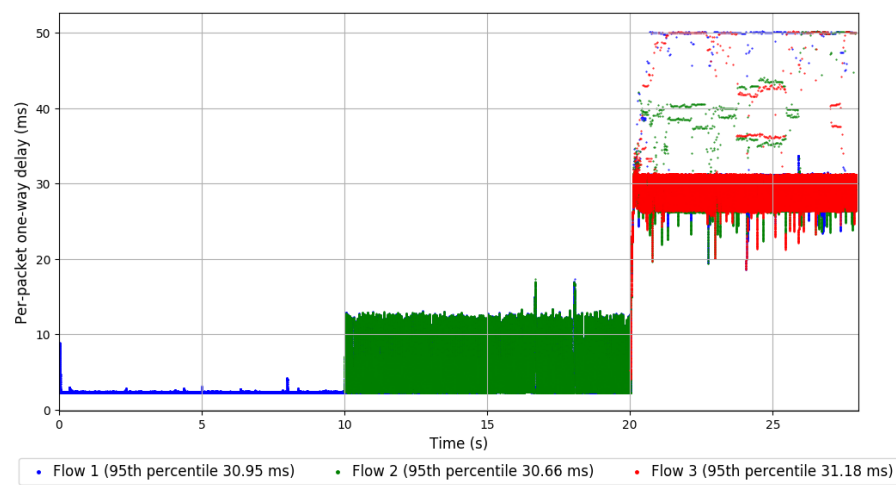
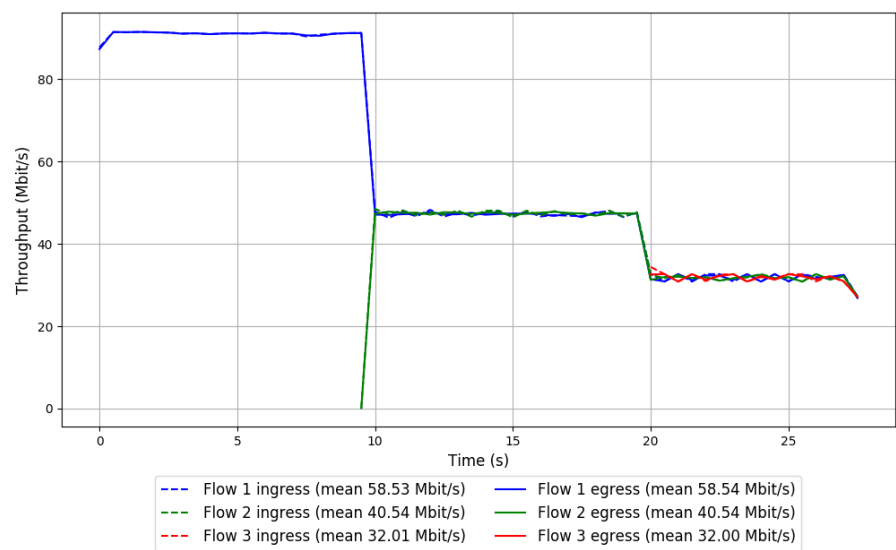
-- Flow 3:

Average throughput: 32.00 Mbit/s

95th percentile per-packet one-way delay: 31.184 ms

Loss rate: 0.36%

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

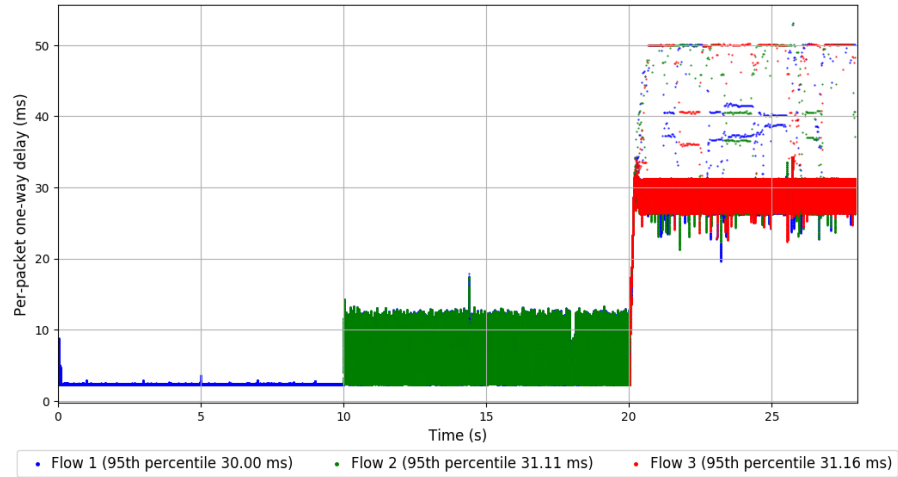
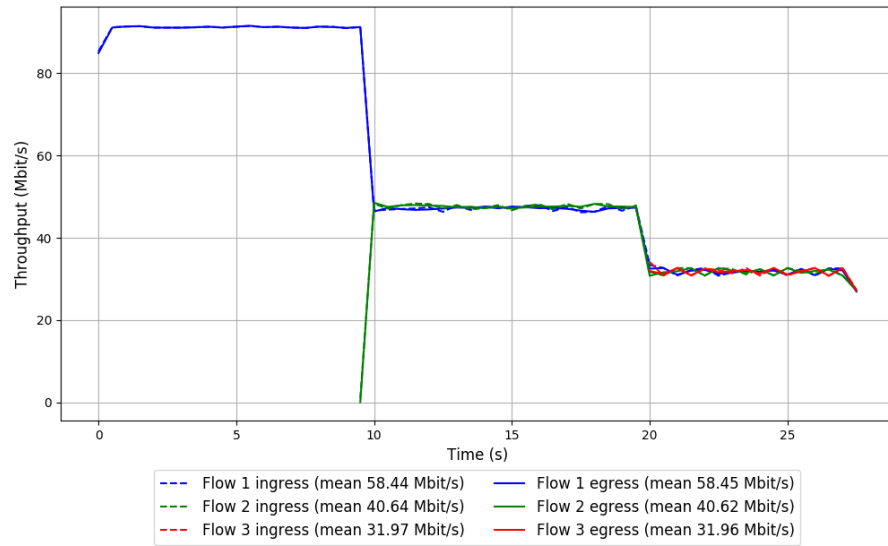


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 13:33:12
End at: 2018-01-26 13:33:42
Local clock offset: 0.161 ms
Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-01-26 16:48:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.58 Mbit/s
95th percentile per-packet one-way delay: 31.063 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.45 Mbit/s
95th percentile per-packet one-way delay: 30.004 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 40.62 Mbit/s
95th percentile per-packet one-way delay: 31.111 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 31.96 Mbit/s
95th percentile per-packet one-way delay: 31.158 ms
Loss rate: 0.36%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 10:34:58

End at: 2018-01-26 10:35:28

Local clock offset: -0.112 ms

Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-01-26 16:48:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 4.574 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 51.38 Mbit/s

95th percentile per-packet one-way delay: 9.143 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 52.04 Mbit/s

95th percentile per-packet one-way delay: 4.111 ms

Loss rate: 0.02%

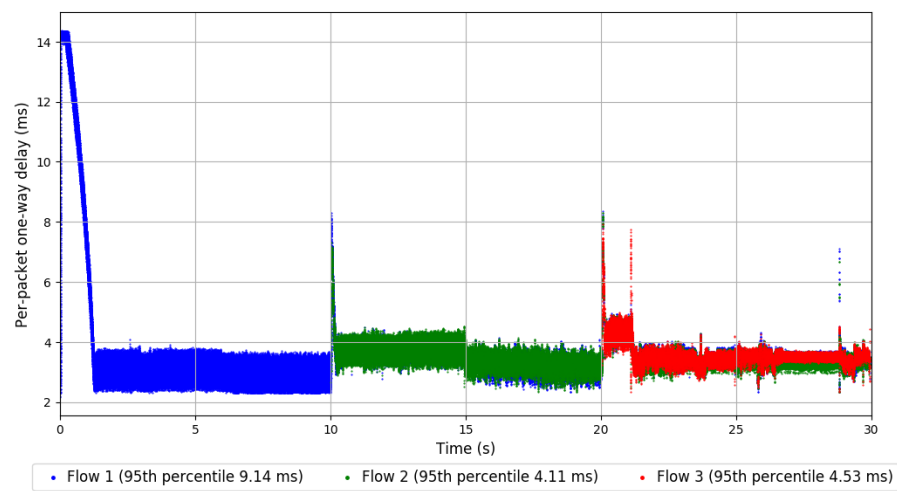
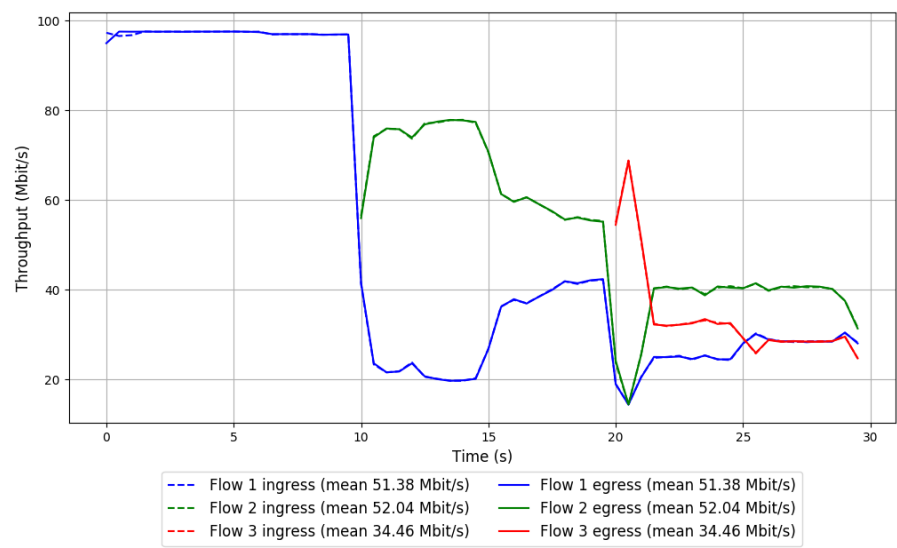
-- Flow 3:

Average throughput: 34.46 Mbit/s

95th percentile per-packet one-way delay: 4.526 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 10:53:00

End at: 2018-01-26 10:53:30

Local clock offset: -0.116 ms

Remote clock offset: 0.339 ms

Below is generated by plot.py at 2018-01-26 16:48:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 4.063 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 49.30 Mbit/s

95th percentile per-packet one-way delay: 3.975 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.88 Mbit/s

95th percentile per-packet one-way delay: 4.039 ms

Loss rate: 0.01%

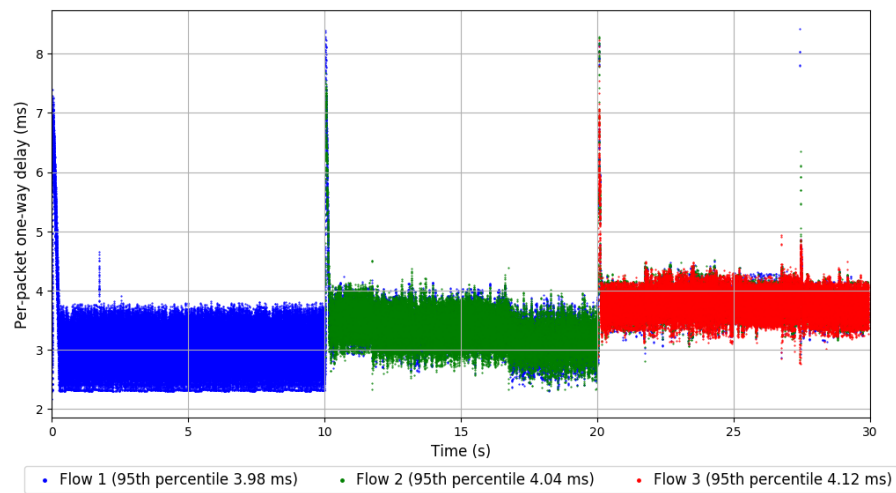
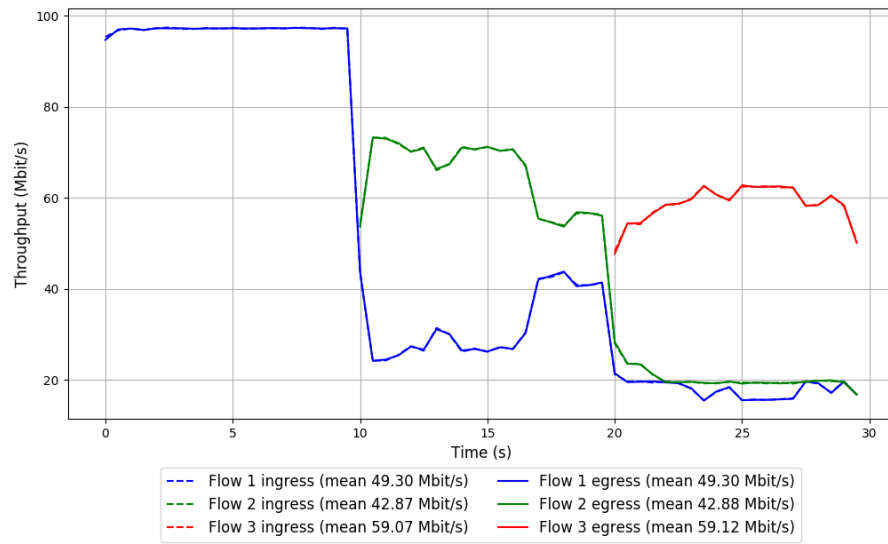
-- Flow 3:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 4.125 ms

Loss rate: 0.06%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 11:11:04

End at: 2018-01-26 11:11:34

Local clock offset: -0.16 ms

Remote clock offset: 0.548 ms

Below is generated by plot.py at 2018-01-26 16:48:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 4.523 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 45.61 Mbit/s

95th percentile per-packet one-way delay: 9.834 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 4.287 ms

Loss rate: 0.02%

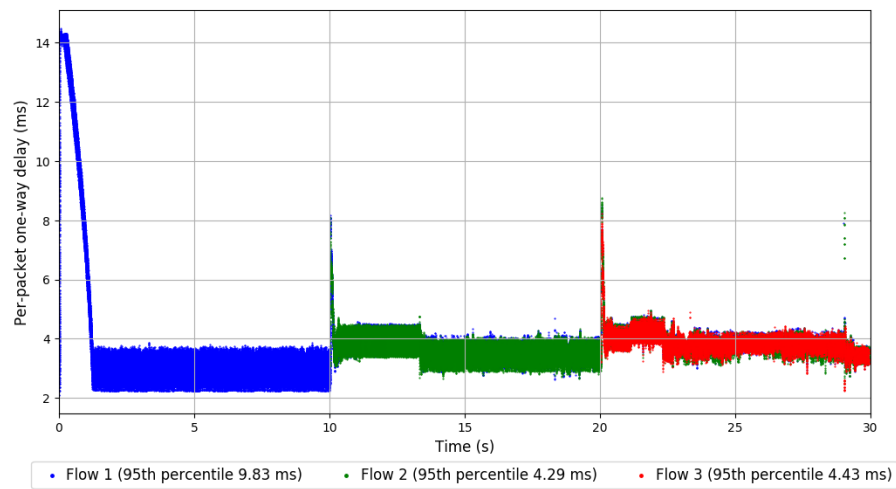
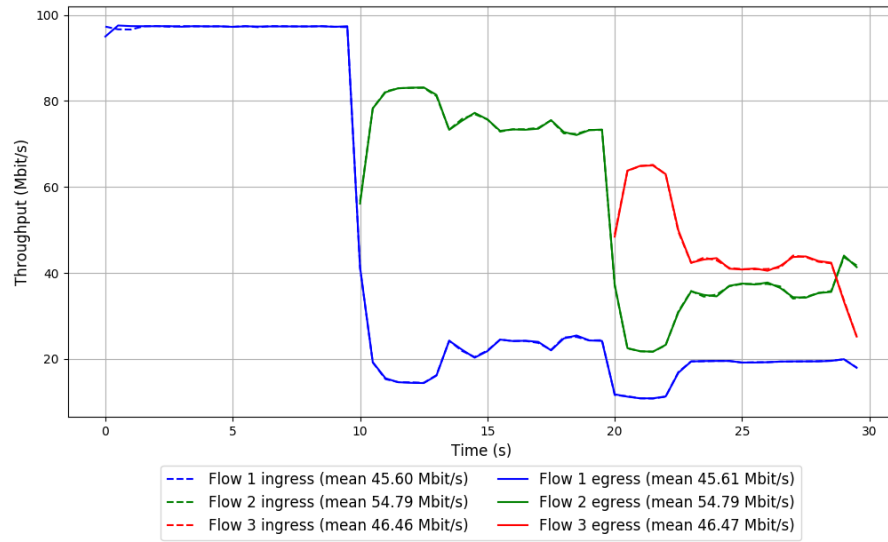
-- Flow 3:

Average throughput: 46.47 Mbit/s

95th percentile per-packet one-way delay: 4.427 ms

Loss rate: 0.04%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 11:29:08

End at: 2018-01-26 11:29:38

Local clock offset: -0.08 ms

Remote clock offset: 0.773 ms

Below is generated by plot.py at 2018-01-26 16:48:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 4.705 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 47.55 Mbit/s

95th percentile per-packet one-way delay: 9.043 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 59.72 Mbit/s

95th percentile per-packet one-way delay: 4.177 ms

Loss rate: 0.02%

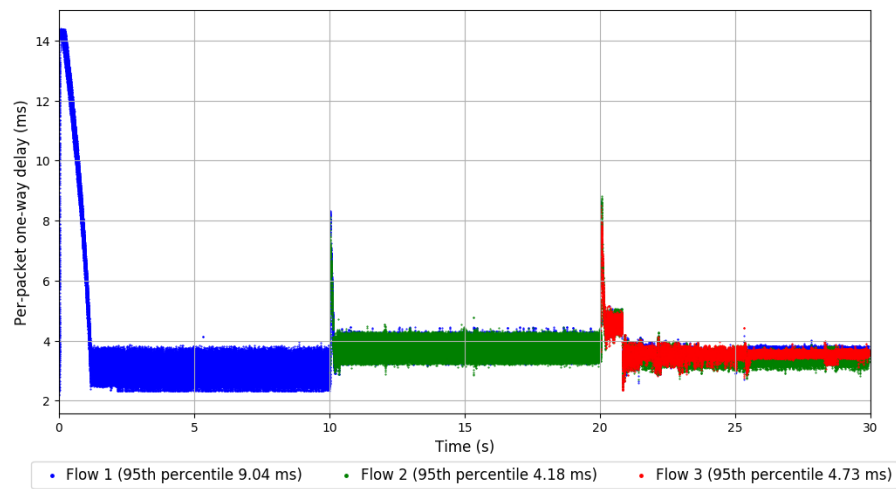
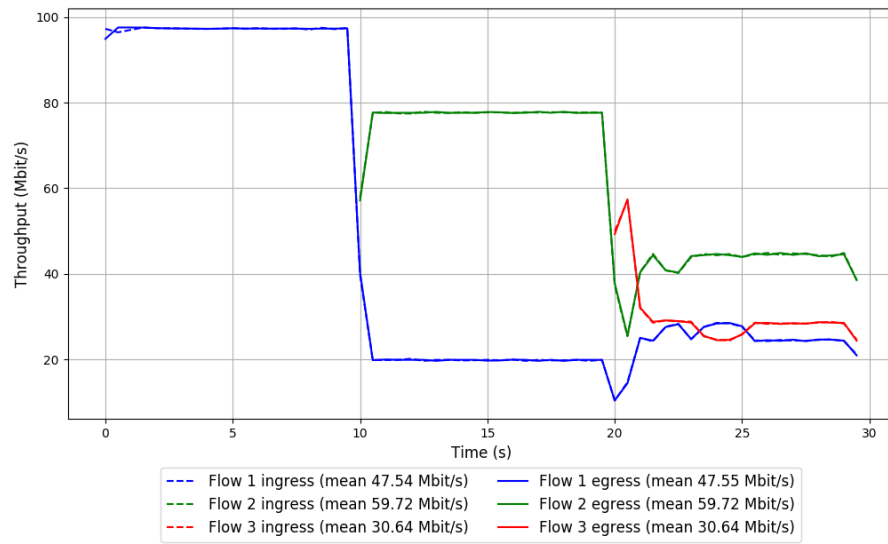
-- Flow 3:

Average throughput: 30.64 Mbit/s

95th percentile per-packet one-way delay: 4.728 ms

Loss rate: 0.06%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 11:47:11

End at: 2018-01-26 11:47:41

Local clock offset: -0.176 ms

Remote clock offset: 0.816 ms

Below is generated by plot.py at 2018-01-26 16:48:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 4.399 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.97 Mbit/s

95th percentile per-packet one-way delay: 8.585 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 49.69 Mbit/s

95th percentile per-packet one-way delay: 4.281 ms

Loss rate: 0.01%

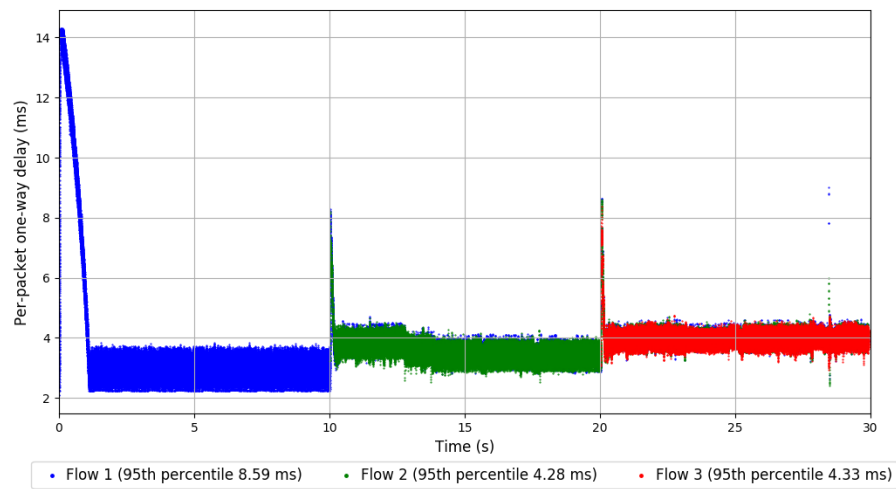
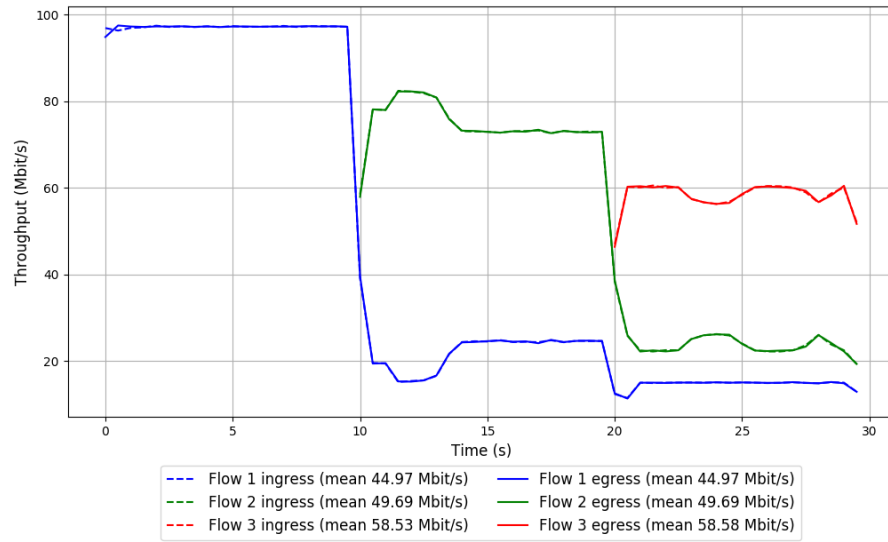
-- Flow 3:

Average throughput: 58.58 Mbit/s

95th percentile per-packet one-way delay: 4.331 ms

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 12:05:16

End at: 2018-01-26 12:05:46

Local clock offset: -0.091 ms

Remote clock offset: 0.793 ms

Below is generated by plot.py at 2018-01-26 16:48:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.18 Mbit/s

95th percentile per-packet one-way delay: 4.500 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 50.46 Mbit/s

95th percentile per-packet one-way delay: 4.297 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 36.57 Mbit/s

95th percentile per-packet one-way delay: 4.389 ms

Loss rate: 0.01%

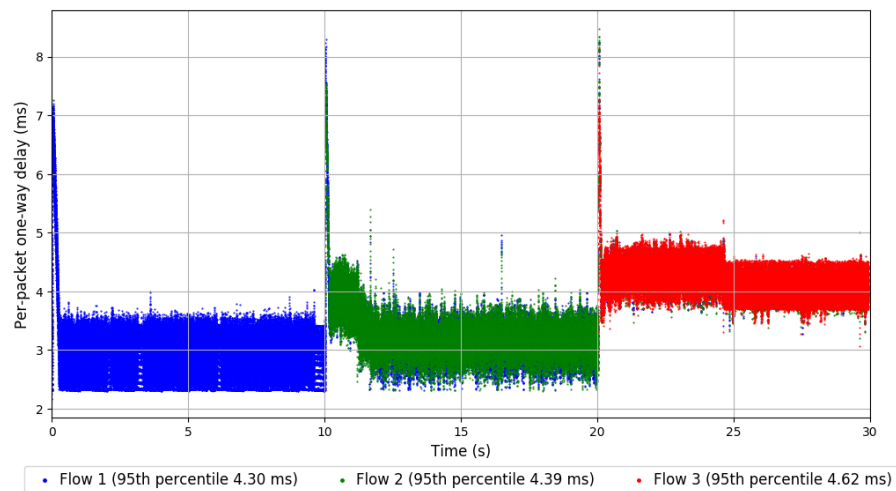
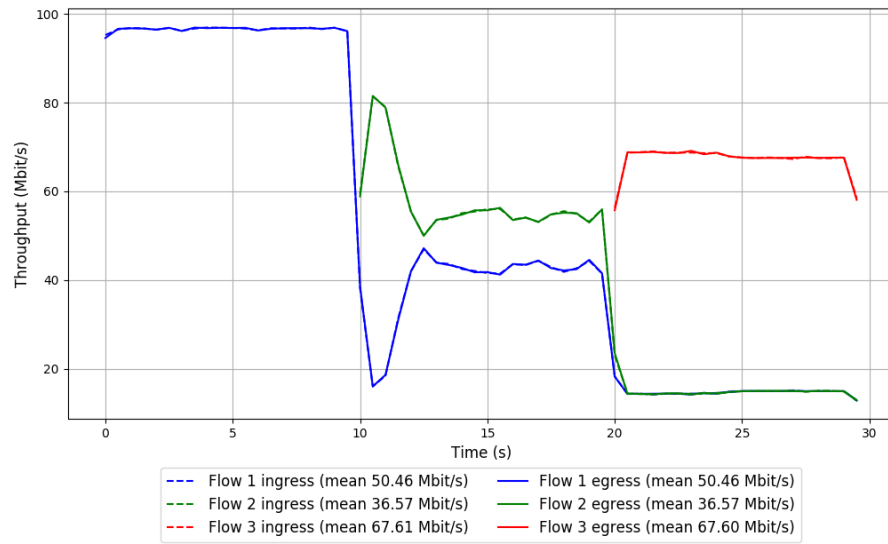
-- Flow 3:

Average throughput: 67.60 Mbit/s

95th percentile per-packet one-way delay: 4.625 ms

Loss rate: 0.06%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 12:23:19

End at: 2018-01-26 12:23:49

Local clock offset: -0.091 ms

Remote clock offset: 0.657 ms

Below is generated by plot.py at 2018-01-26 16:48:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.30 Mbit/s

95th percentile per-packet one-way delay: 4.875 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 58.42 Mbit/s

95th percentile per-packet one-way delay: 10.265 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 3.724 ms

Loss rate: 0.02%

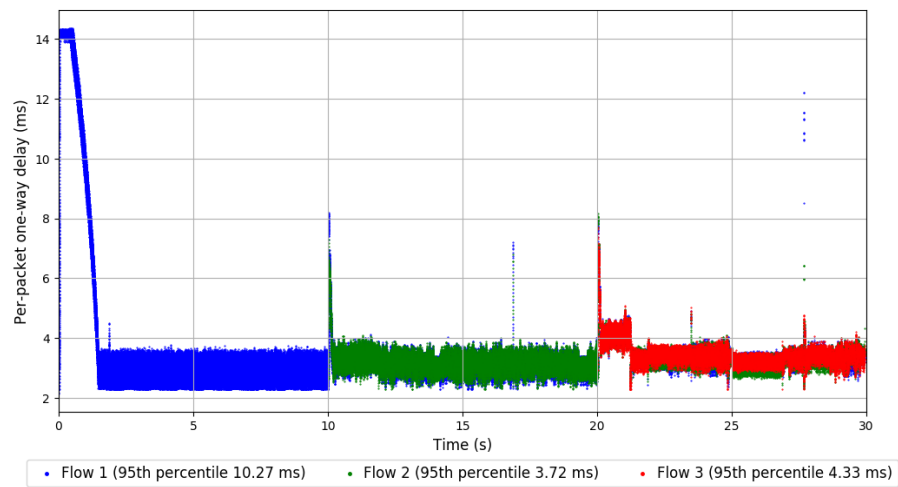
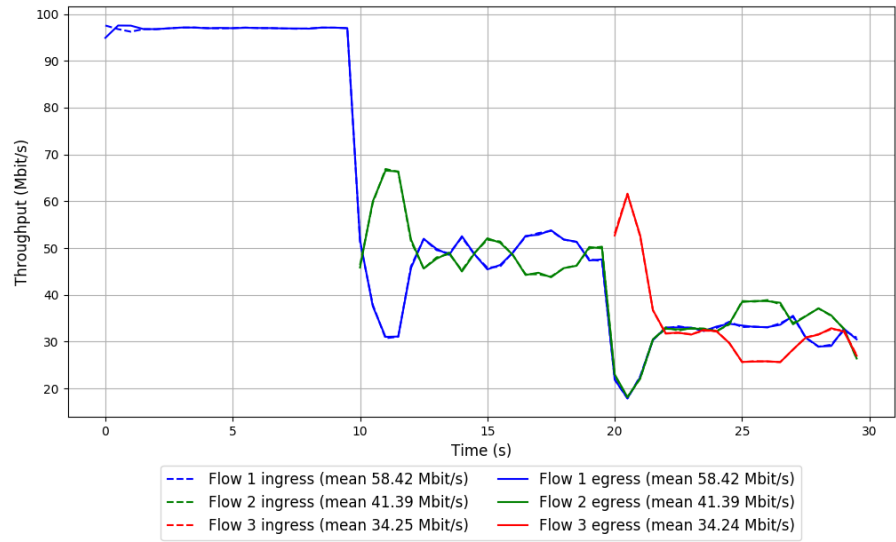
-- Flow 3:

Average throughput: 34.24 Mbit/s

95th percentile per-packet one-way delay: 4.334 ms

Loss rate: 0.06%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 12:41:23

End at: 2018-01-26 12:41:53

Local clock offset: 0.007 ms

Remote clock offset: 0.477 ms

Below is generated by plot.py at 2018-01-26 16:49:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 4.533 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 44.94 Mbit/s

95th percentile per-packet one-way delay: 8.700 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 51.44 Mbit/s

95th percentile per-packet one-way delay: 4.483 ms

Loss rate: 0.02%

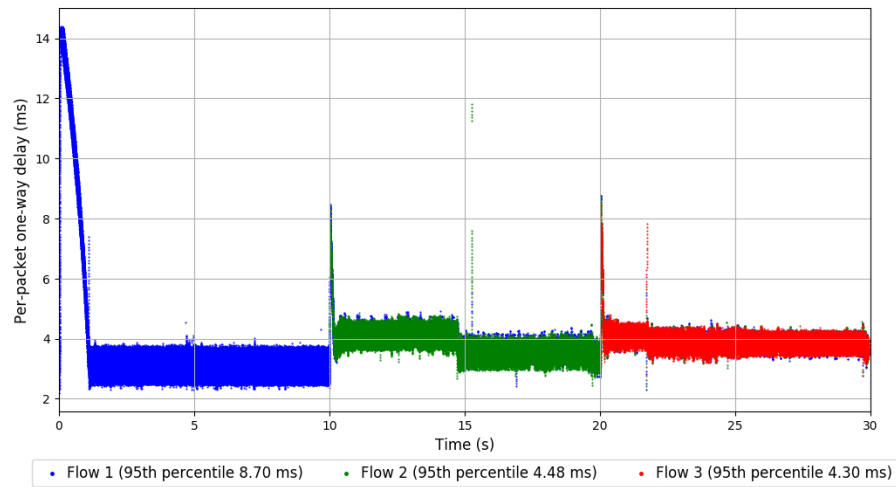
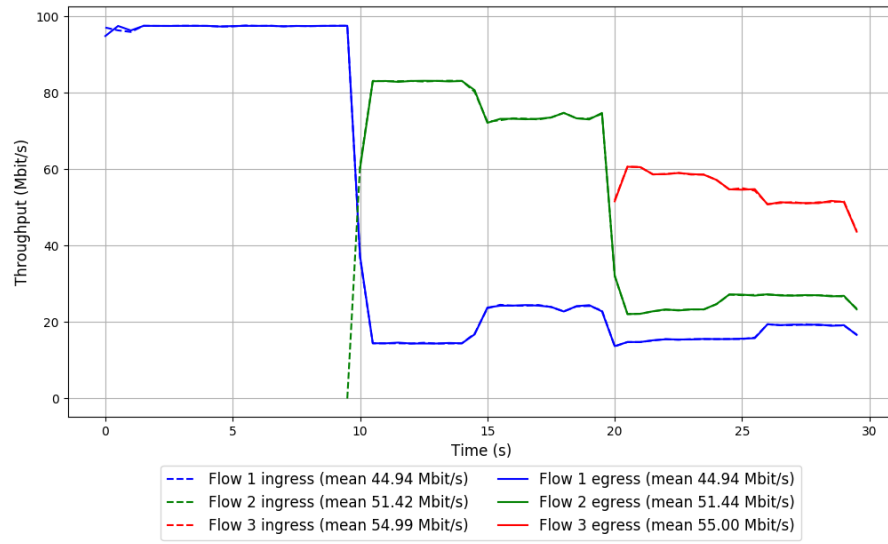
-- Flow 3:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 4.297 ms

Loss rate: 0.05%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 12:59:26

End at: 2018-01-26 12:59:56

Local clock offset: 0.083 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2018-01-26 16:49:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.28 Mbit/s

95th percentile per-packet one-way delay: 5.071 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 4.859 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 51.46 Mbit/s

95th percentile per-packet one-way delay: 5.023 ms

Loss rate: 0.02%

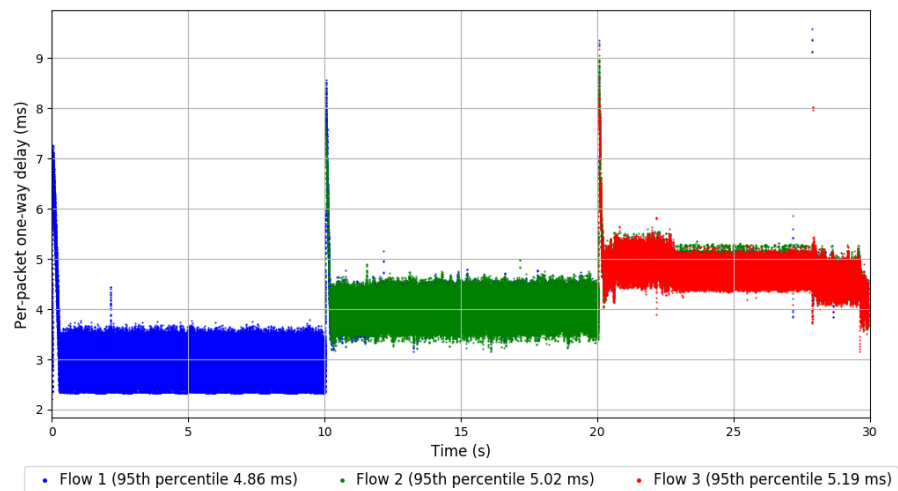
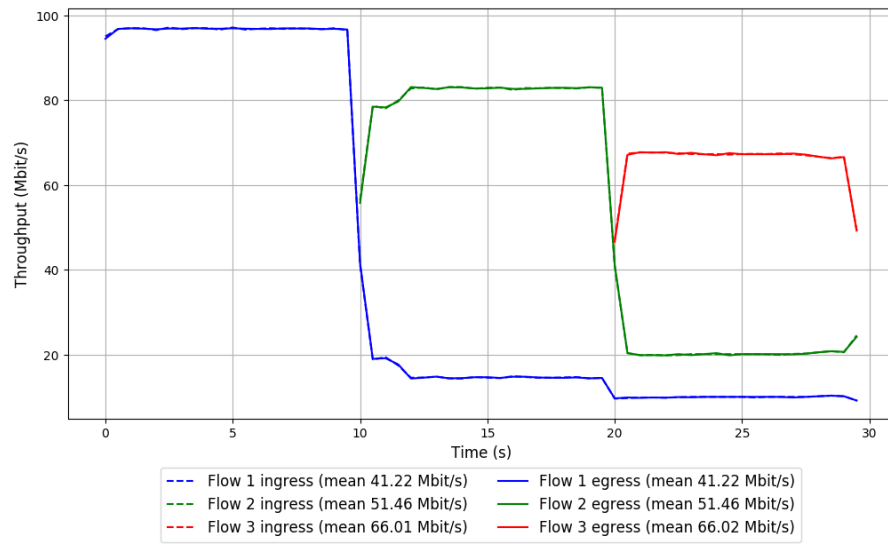
-- Flow 3:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 5.192 ms

Loss rate: 0.05%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 13:17:28

End at: 2018-01-26 13:17:58

Local clock offset: 0.06 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-01-26 16:49:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 14.186 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 14.218 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 86.41 Mbit/s

95th percentile per-packet one-way delay: 13.317 ms

Loss rate: 0.03%

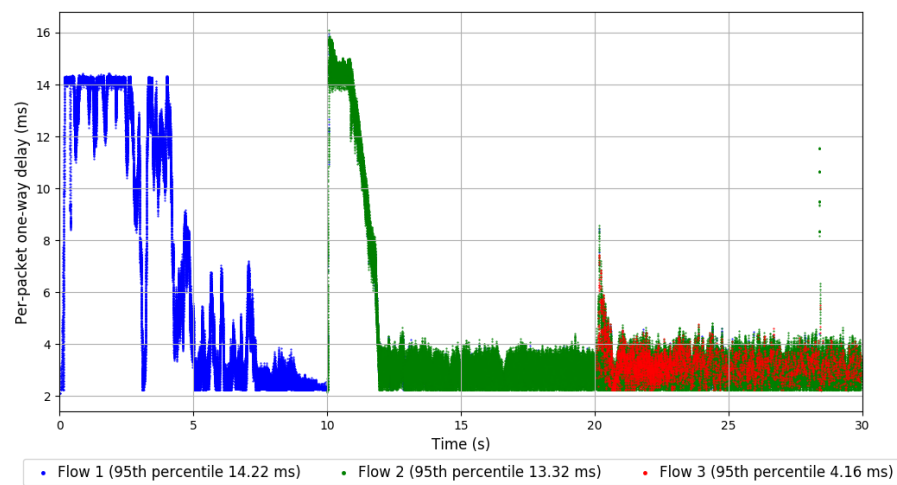
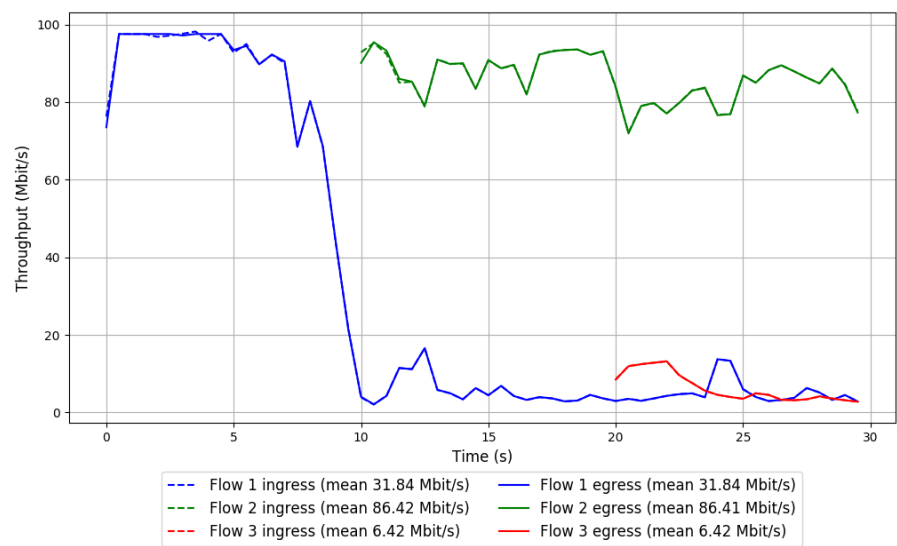
-- Flow 3:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 4.160 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-26 10:38:21

End at: 2018-01-26 10:38:51

Local clock offset: -0.119 ms

Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-01-26 16:49:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.55 Mbit/s

95th percentile per-packet one-way delay: 36.537 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 51.97 Mbit/s

95th percentile per-packet one-way delay: 35.077 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 42.02 Mbit/s

95th percentile per-packet one-way delay: 36.600 ms

Loss rate: 0.13%

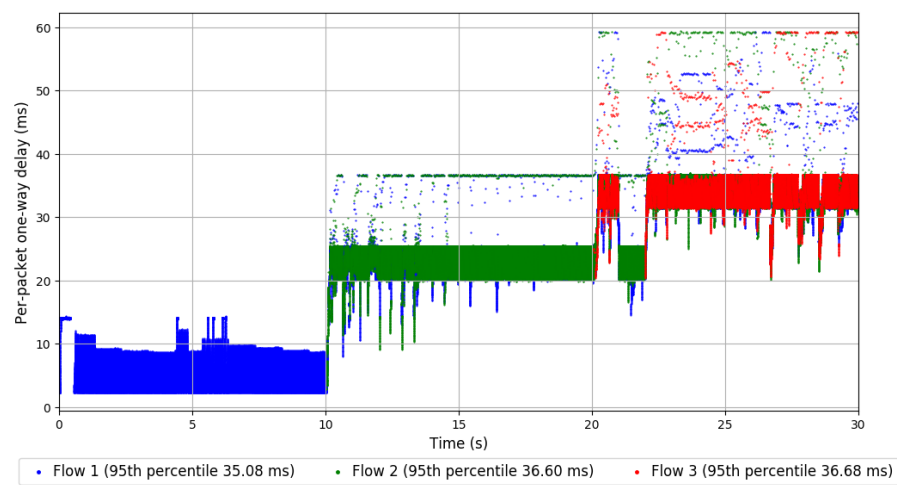
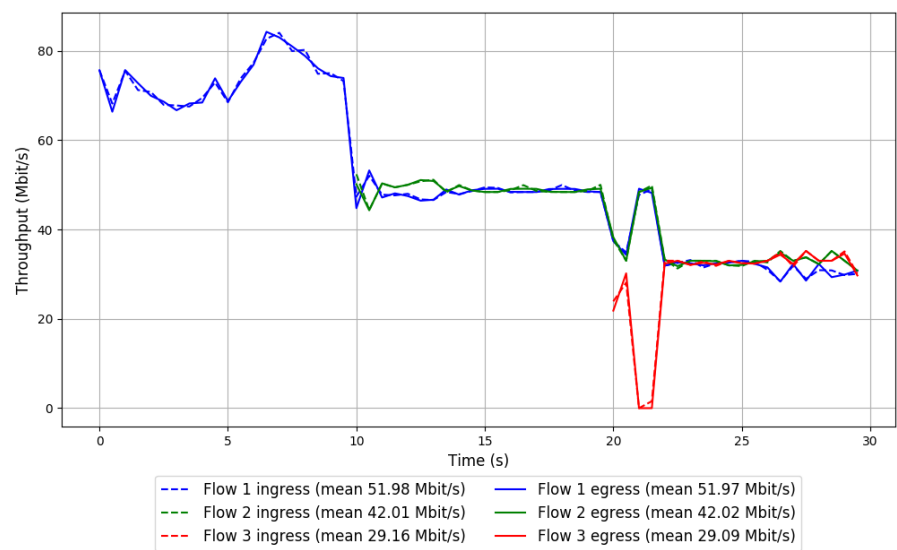
-- Flow 3:

Average throughput: 29.09 Mbit/s

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

Loss rate: 0.54%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 10:56:23

End at: 2018-01-26 10:56:53

Local clock offset: -0.118 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2018-01-26 16:49:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.75 Mbit/s

95th percentile per-packet one-way delay: 35.129 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 52.32 Mbit/s

95th percentile per-packet one-way delay: 34.075 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 42.70 Mbit/s

95th percentile per-packet one-way delay: 35.078 ms

Loss rate: 0.11%

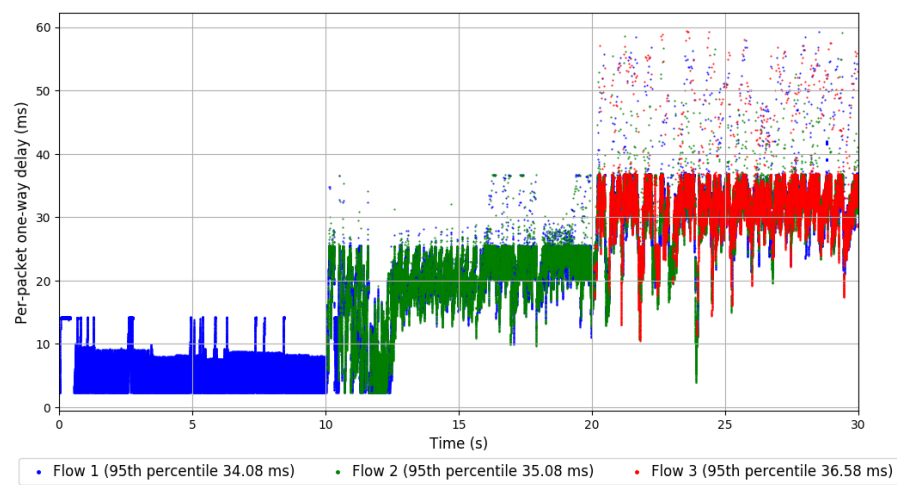
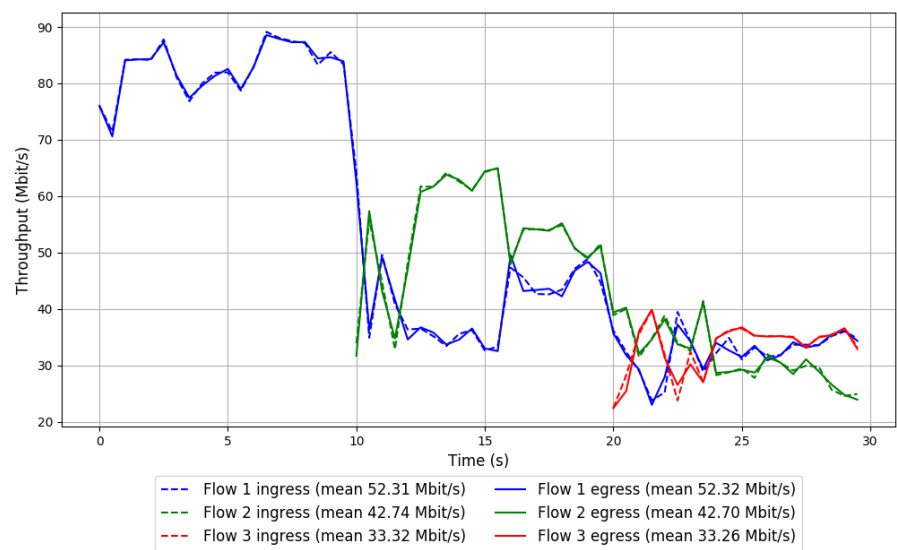
-- Flow 3:

Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 36.582 ms

Loss rate: 0.39%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 11:14:28

End at: 2018-01-26 11:14:58

Local clock offset: -0.151 ms

Remote clock offset: 0.59 ms

Below is generated by plot.py at 2018-01-26 16:49:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.94 Mbit/s

95th percentile per-packet one-way delay: 36.506 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 35.611 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 41.88 Mbit/s

95th percentile per-packet one-way delay: 36.518 ms

Loss rate: 0.11%

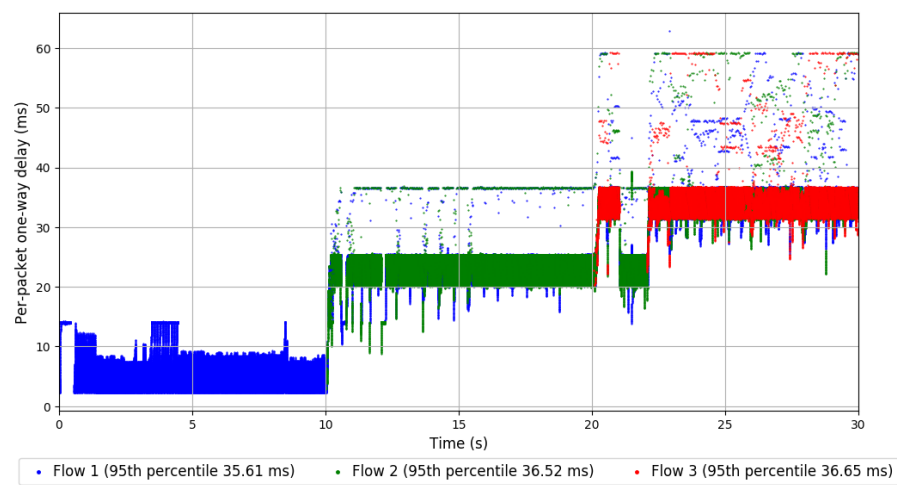
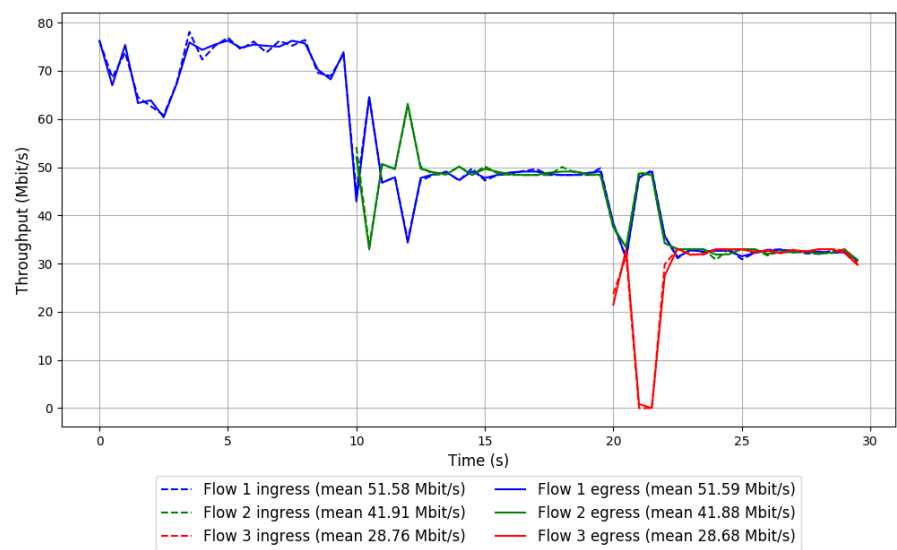
-- Flow 3:

Average throughput: 28.68 Mbit/s

95th percentile per-packet one-way delay: 36.646 ms

Loss rate: 0.53%

Run 3: Report of Verus — Data Link

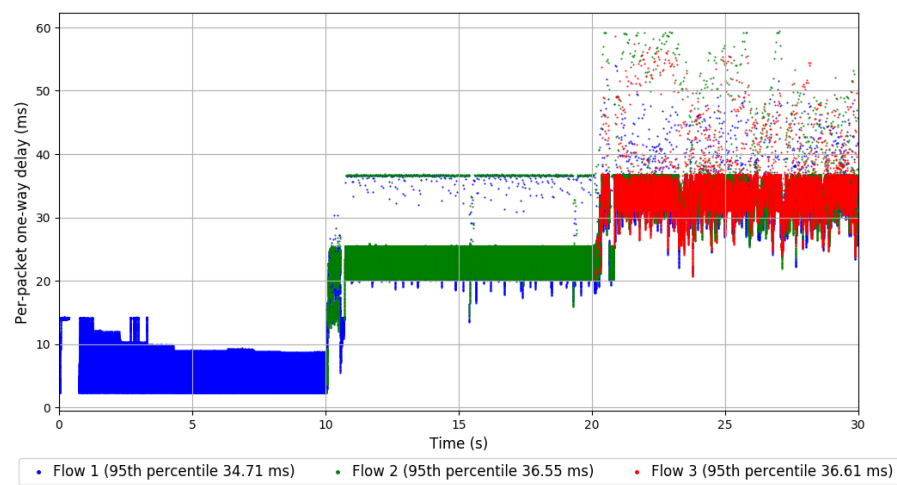
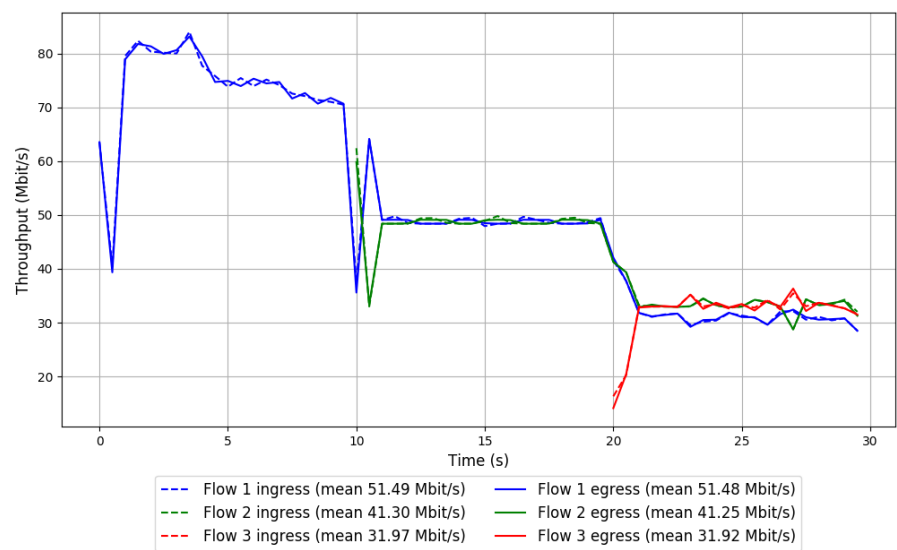


Run 4: Statistics of Verus

Start at: 2018-01-26 11:32:31
End at: 2018-01-26 11:33:01
Local clock offset: -0.105 ms
Remote clock offset: 0.785 ms

Below is generated by plot.py at 2018-01-26 16:49:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 35.992 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 51.48 Mbit/s
95th percentile per-packet one-way delay: 34.706 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 41.25 Mbit/s
95th percentile per-packet one-way delay: 36.552 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 31.92 Mbit/s
95th percentile per-packet one-way delay: 36.614 ms
Loss rate: 0.37%

Run 4: Report of Verus — Data Link

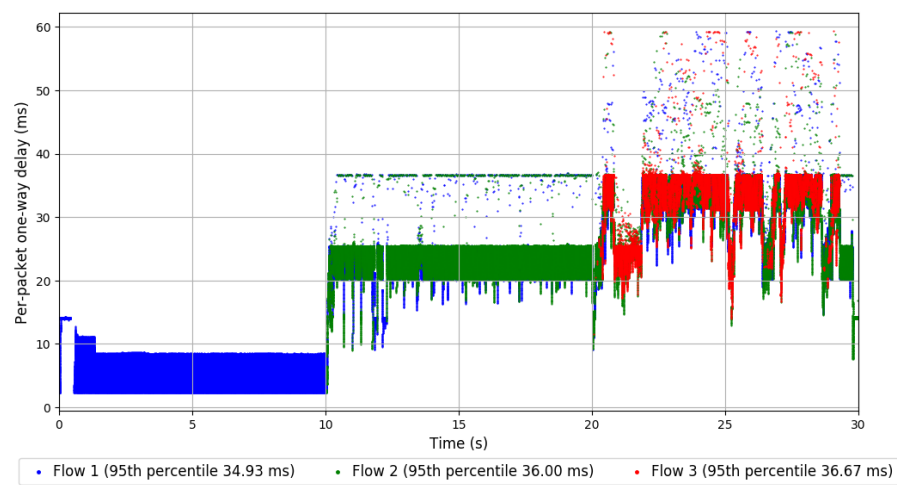
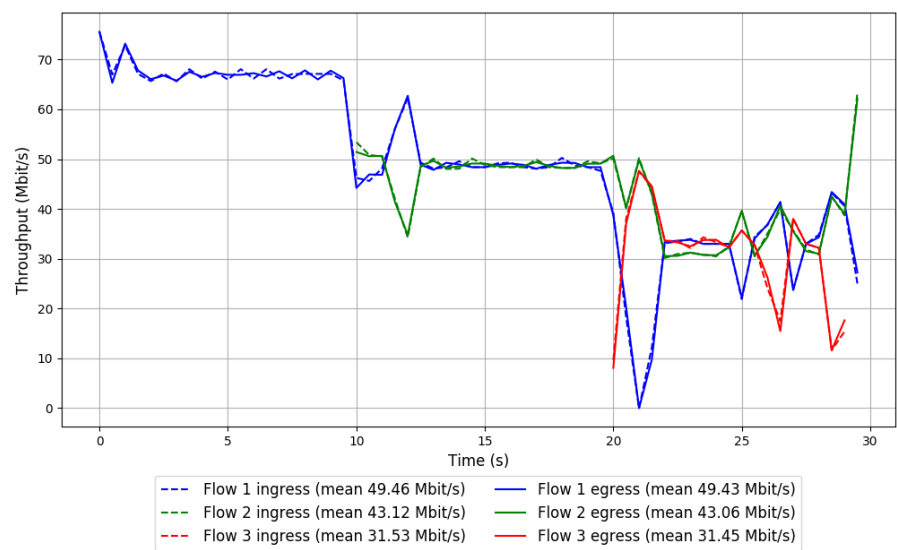


Run 5: Statistics of Verus

Start at: 2018-01-26 11:50:35
End at: 2018-01-26 11:51:05
Local clock offset: -0.102 ms
Remote clock offset: 0.81 ms

Below is generated by plot.py at 2018-01-26 16:50:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.47 Mbit/s
95th percentile per-packet one-way delay: 36.188 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 49.43 Mbit/s
95th percentile per-packet one-way delay: 34.926 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.06 Mbit/s
95th percentile per-packet one-way delay: 35.997 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 36.673 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-26 12:08:39

End at: 2018-01-26 12:09:09

Local clock offset: -0.101 ms

Remote clock offset: 0.782 ms

Below is generated by plot.py at 2018-01-26 16:50:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 36.033 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 52.87 Mbit/s

95th percentile per-packet one-way delay: 34.752 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 41.54 Mbit/s

95th percentile per-packet one-way delay: 36.147 ms

Loss rate: 0.14%

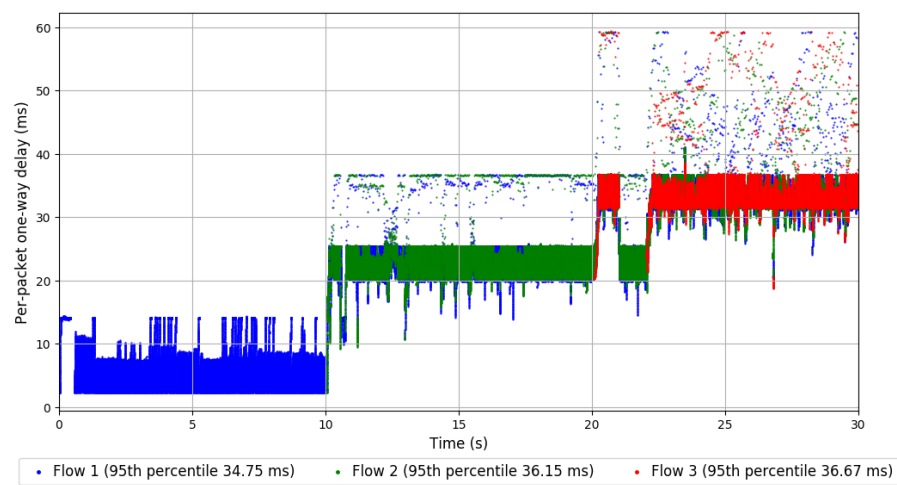
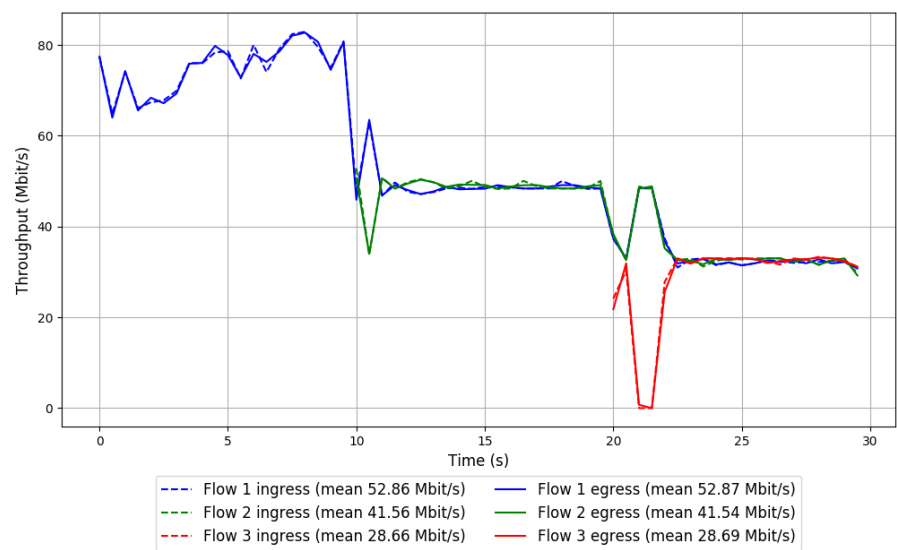
-- Flow 3:

Average throughput: 28.69 Mbit/s

95th percentile per-packet one-way delay: 36.675 ms

Loss rate: 0.42%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-26 12:26:43

End at: 2018-01-26 12:27:13

Local clock offset: -0.075 ms

Remote clock offset: 0.634 ms

Below is generated by plot.py at 2018-01-26 16:50:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.41 Mbit/s

95th percentile per-packet one-way delay: 36.523 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 54.10 Mbit/s

95th percentile per-packet one-way delay: 35.006 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 37.21 Mbit/s

95th percentile per-packet one-way delay: 36.531 ms

Loss rate: 0.15%

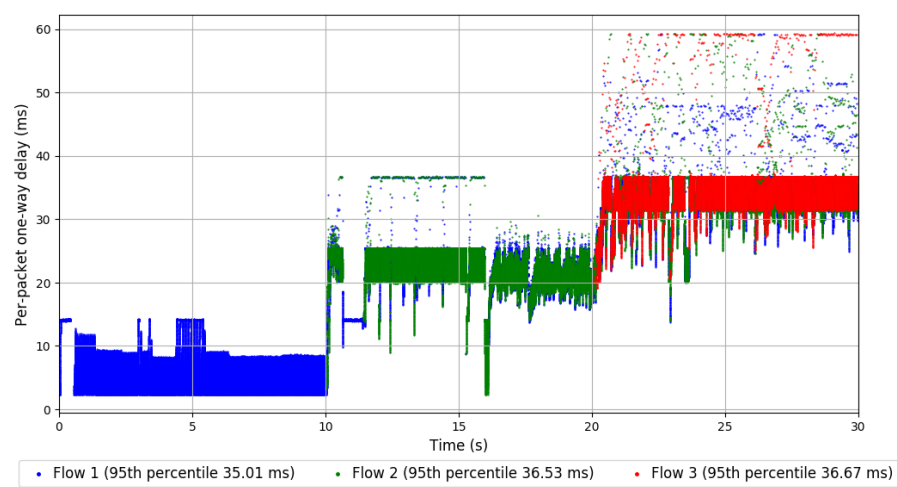
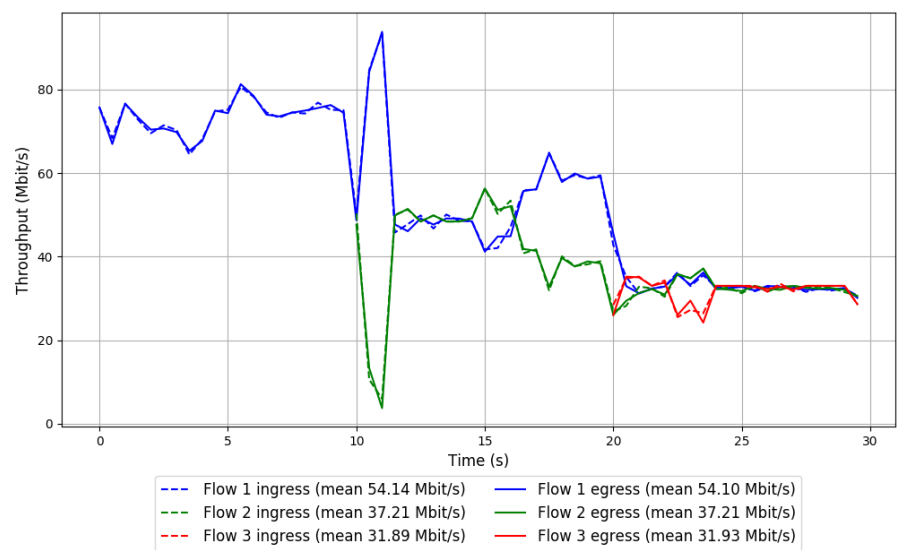
-- Flow 3:

Average throughput: 31.93 Mbit/s

95th percentile per-packet one-way delay: 36.675 ms

Loss rate: 0.35%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 12:44:47

End at: 2018-01-26 12:45:17

Local clock offset: 0.014 ms

Remote clock offset: 0.408 ms

Below is generated by plot.py at 2018-01-26 16:51:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.97 Mbit/s

95th percentile per-packet one-way delay: 36.116 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 51.66 Mbit/s

95th percentile per-packet one-way delay: 34.737 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 36.345 ms

Loss rate: 0.20%

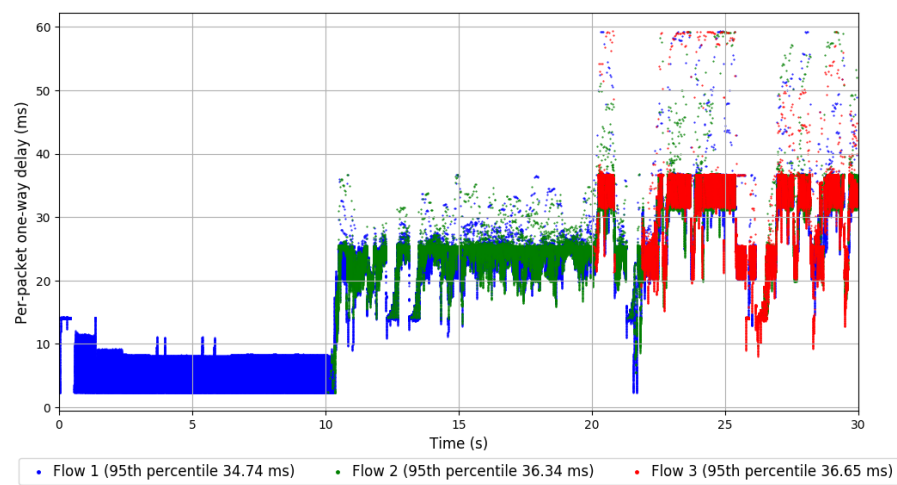
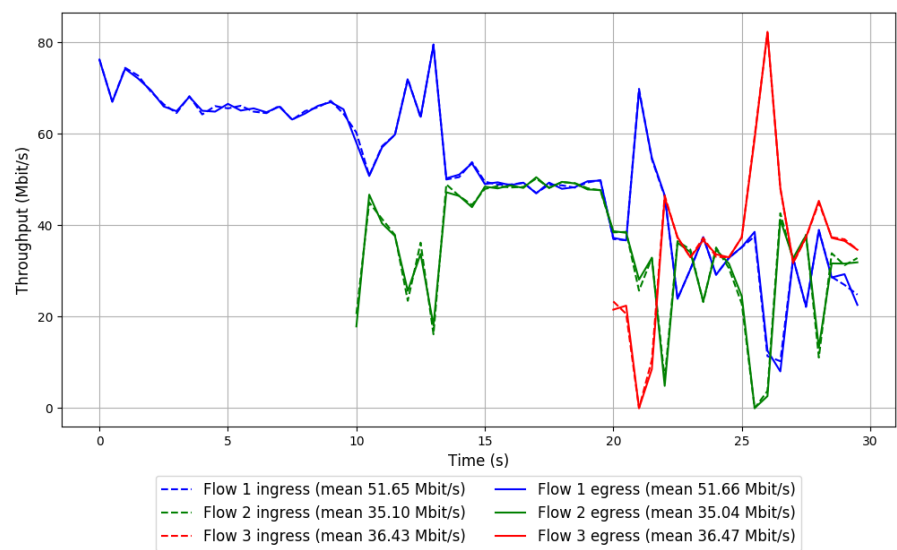
-- Flow 3:

Average throughput: 36.47 Mbit/s

95th percentile per-packet one-way delay: 36.652 ms

Loss rate: 0.31%

Run 8: Report of Verus — Data Link

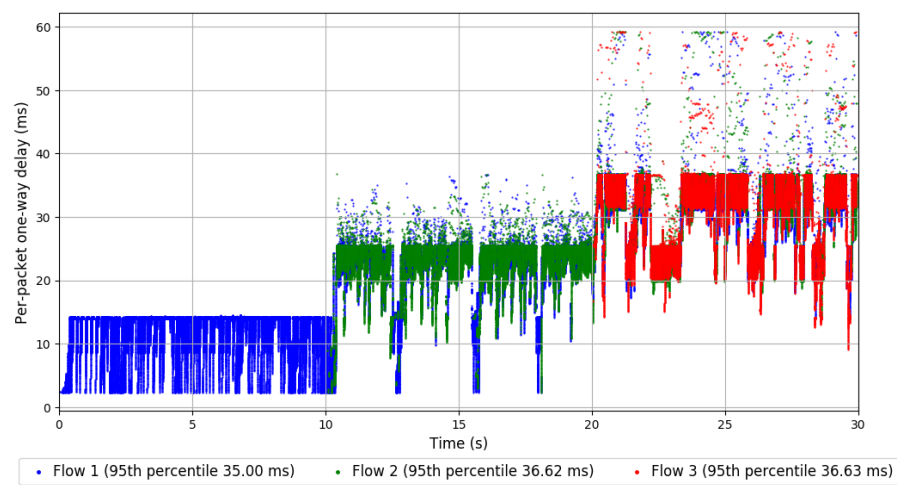
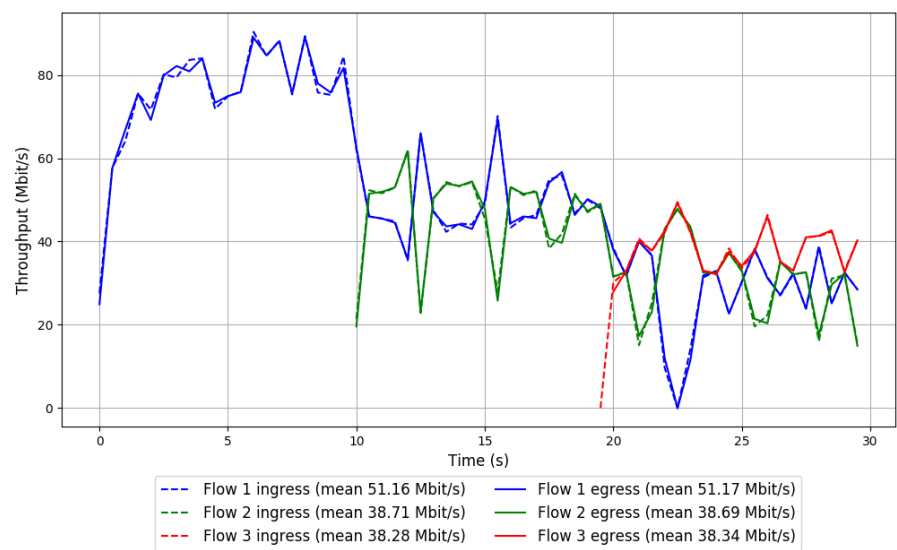


Run 9: Statistics of Verus

Start at: 2018-01-26 13:02:50
End at: 2018-01-26 13:03:20
Local clock offset: 0.064 ms
Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-01-26 16:51:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.58 Mbit/s
95th percentile per-packet one-way delay: 36.501 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 51.17 Mbit/s
95th percentile per-packet one-way delay: 35.004 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 36.624 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 36.632 ms
Loss rate: 0.29%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 13:20:51

End at: 2018-01-26 13:21:21

Local clock offset: 0.076 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-01-26 16:51:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.07 Mbit/s

95th percentile per-packet one-way delay: 34.950 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 33.724 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 39.68 Mbit/s

95th percentile per-packet one-way delay: 34.982 ms

Loss rate: 0.43%

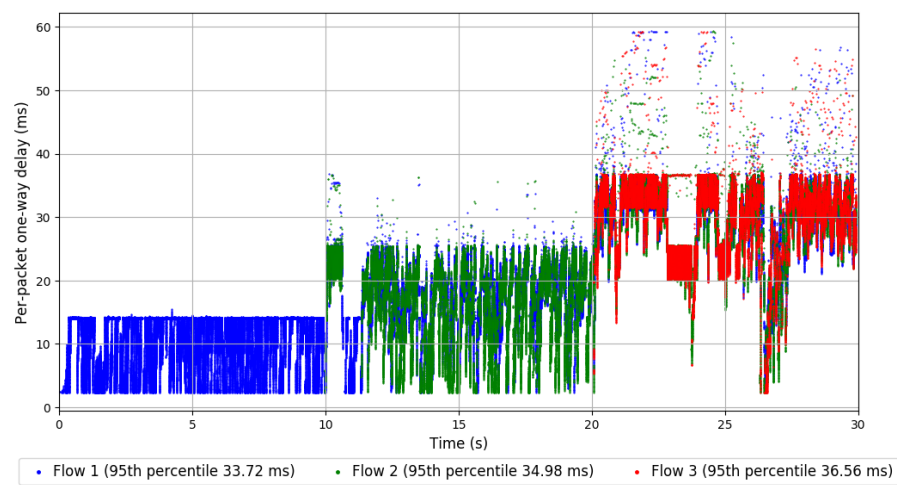
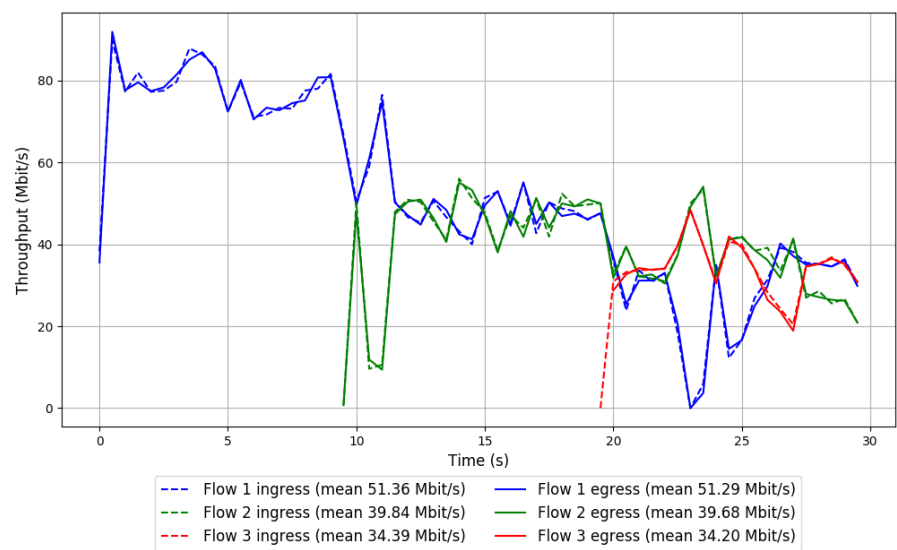
-- Flow 3:

Average throughput: 34.20 Mbit/s

95th percentile per-packet one-way delay: 36.561 ms

Loss rate: 0.93%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-26 10:51:48

End at: 2018-01-26 10:52:18

Local clock offset: -0.107 ms

Remote clock offset: 0.261 ms

Below is generated by plot.py at 2018-01-26 16:52:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 29.363 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 59.01 Mbit/s

95th percentile per-packet one-way delay: 27.841 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 37.79 Mbit/s

95th percentile per-packet one-way delay: 29.284 ms

Loss rate: 0.14%

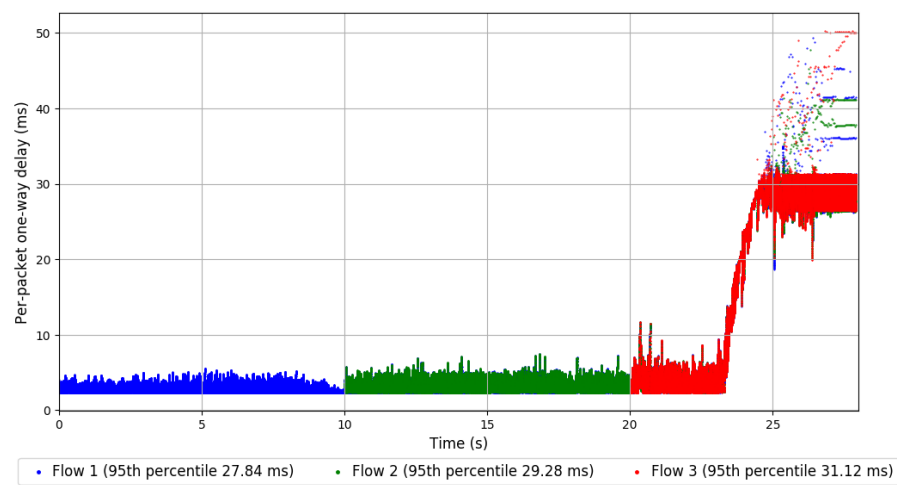
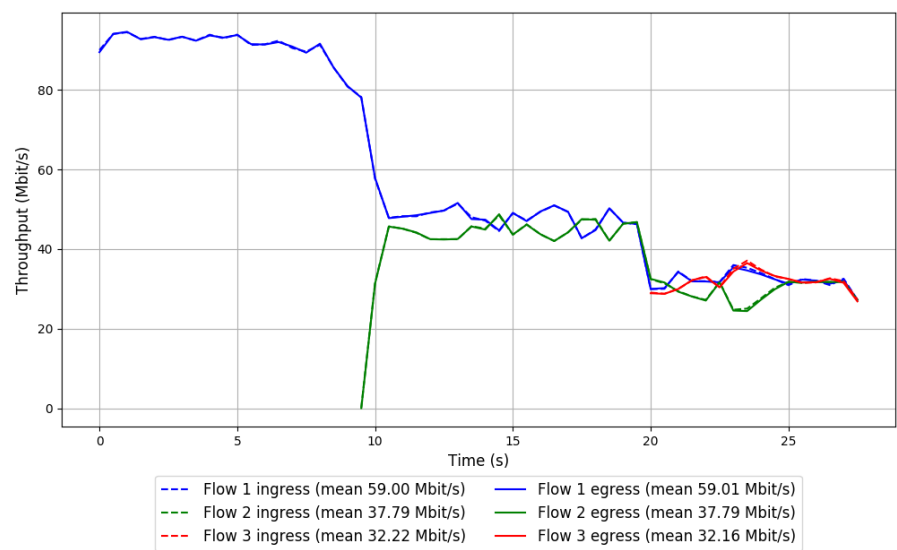
-- Flow 3:

Average throughput: 32.16 Mbit/s

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

Loss rate: 0.53%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-26 11:09:53

End at: 2018-01-26 11:10:23

Local clock offset: -0.138 ms

Remote clock offset: 0.469 ms

Below is generated by plot.py at 2018-01-26 16:52:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 30.421 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 57.99 Mbit/s

95th percentile per-packet one-way delay: 28.731 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 40.21 Mbit/s

95th percentile per-packet one-way delay: 31.062 ms

Loss rate: 0.13%

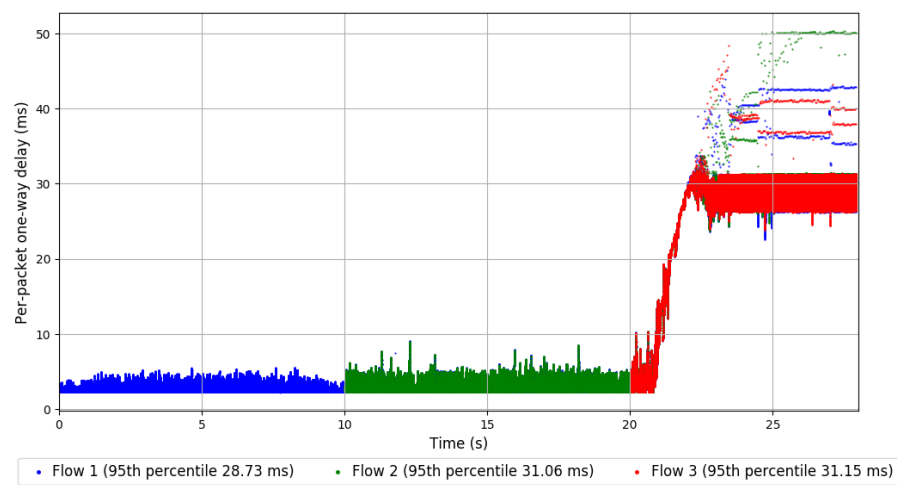
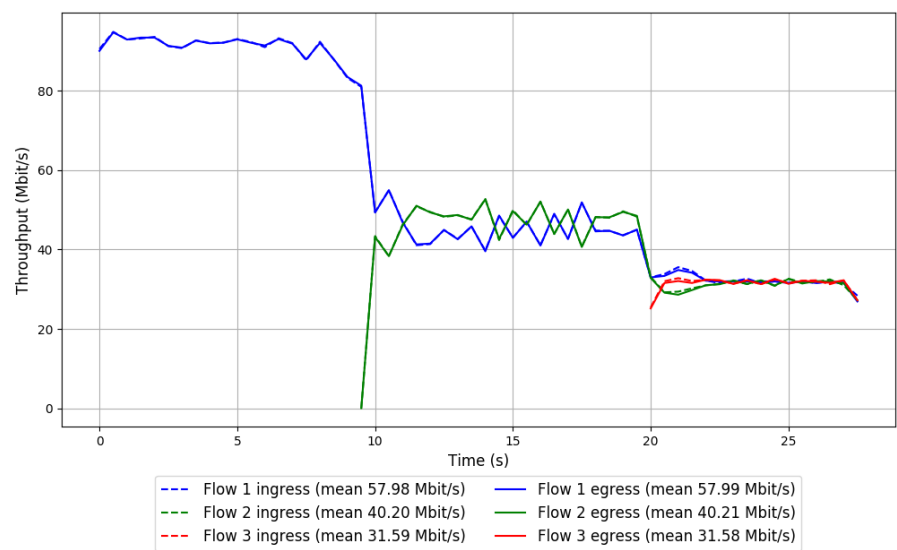
-- Flow 3:

Average throughput: 31.58 Mbit/s

95th percentile per-packet one-way delay: 31.147 ms

Loss rate: 0.37%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 11:27:56

End at: 2018-01-26 11:28:26

Local clock offset: -0.17 ms

Remote clock offset: 0.679 ms

Below is generated by plot.py at 2018-01-26 16:52:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.09 Mbit/s

95th percentile per-packet one-way delay: 5.545 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 58.28 Mbit/s

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

Loss rate: 0.05%

-- Flow 2:

Average throughput: 39.23 Mbit/s

95th percentile per-packet one-way delay: 5.865 ms

Loss rate: 0.11%

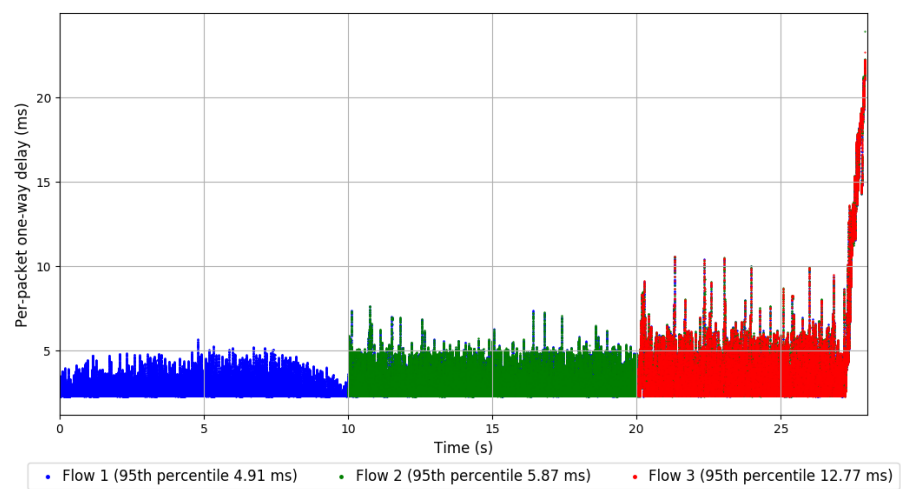
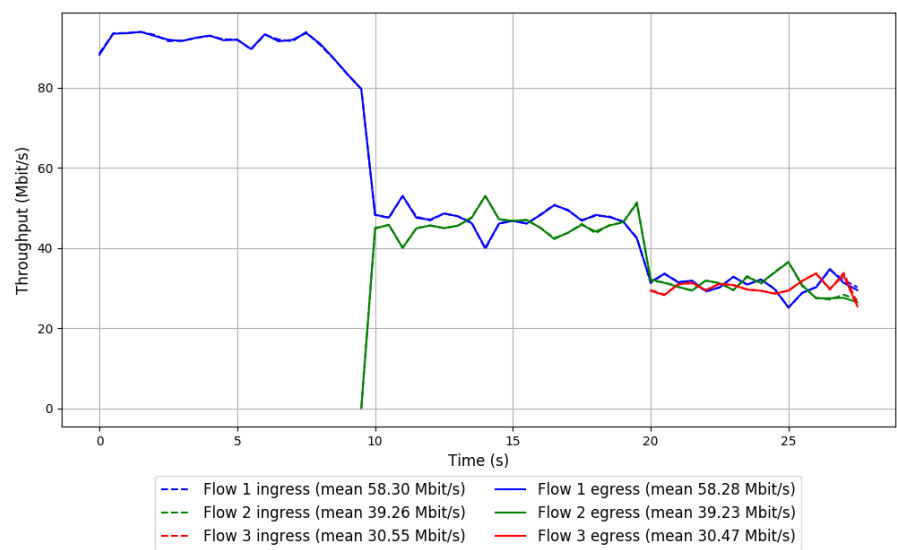
-- Flow 3:

Average throughput: 30.47 Mbit/s

95th percentile per-packet one-way delay: 12.765 ms

Loss rate: 0.31%

Run 3: Report of Copa — Data Link

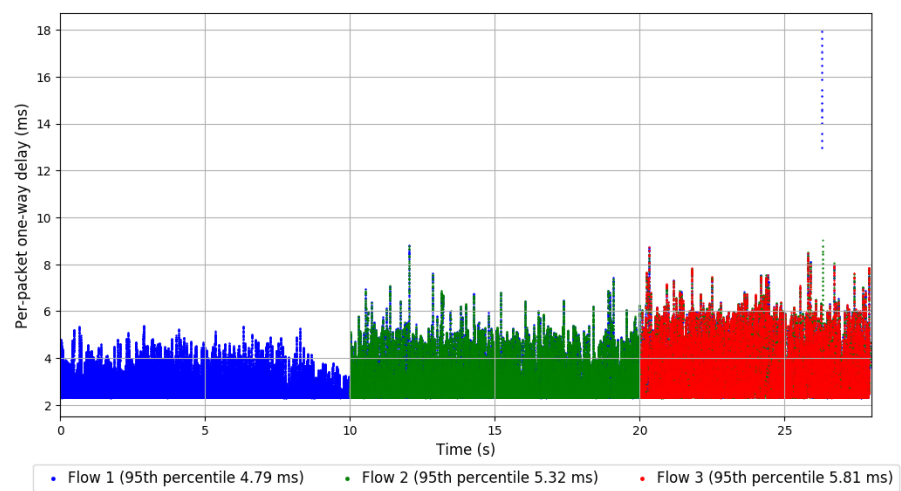
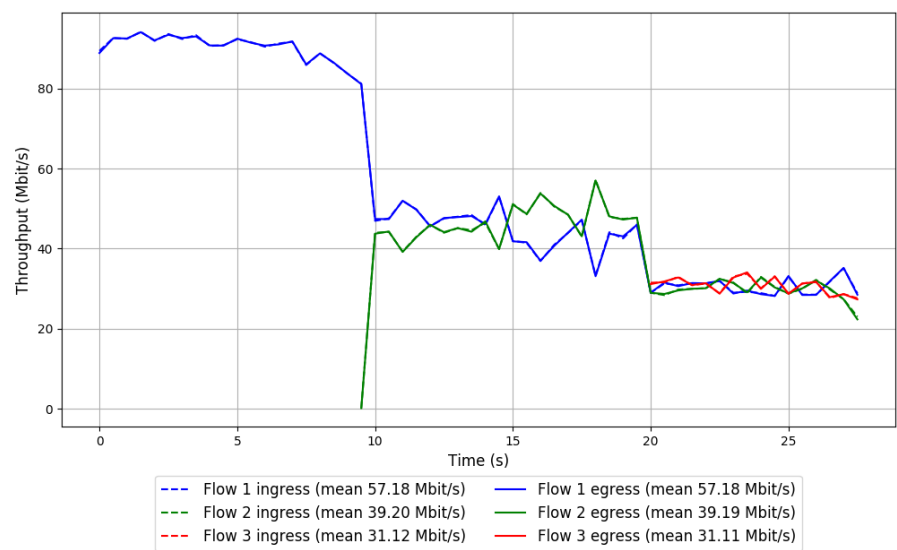


Run 4: Statistics of Copa

Start at: 2018-01-26 11:46:00
End at: 2018-01-26 11:46:30
Local clock offset: -0.106 ms
Remote clock offset: 0.805 ms

```
# Below is generated by plot.py at 2018-01-26 16:53:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.16 Mbit/s
95th percentile per-packet one-way delay: 5.155 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 57.18 Mbit/s
95th percentile per-packet one-way delay: 4.794 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: 5.321 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 31.11 Mbit/s
95th percentile per-packet one-way delay: 5.812 ms
Loss rate: 0.09%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 12:04:04

End at: 2018-01-26 12:04:34

Local clock offset: -0.139 ms

Remote clock offset: 0.728 ms

Below is generated by plot.py at 2018-01-26 16:53:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.43 Mbit/s

95th percentile per-packet one-way delay: 29.743 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.16 Mbit/s

95th percentile per-packet one-way delay: 26.632 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 39.05 Mbit/s

95th percentile per-packet one-way delay: 29.912 ms

Loss rate: 0.18%

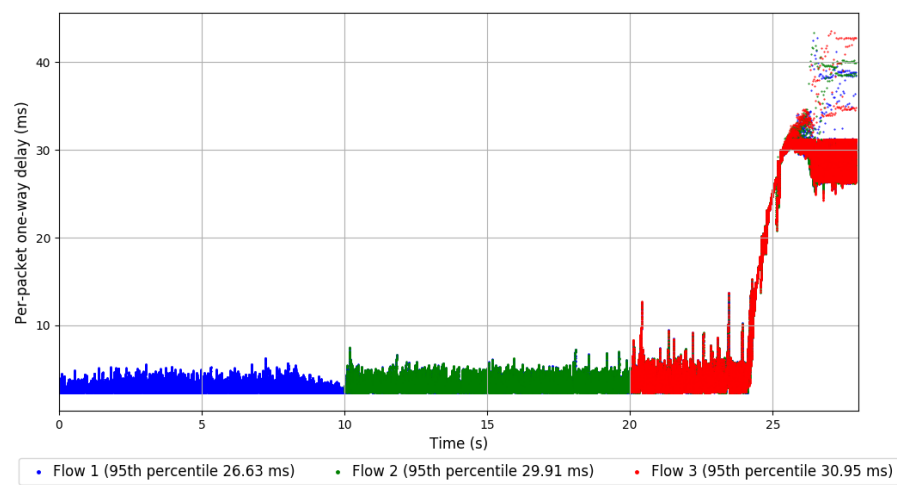
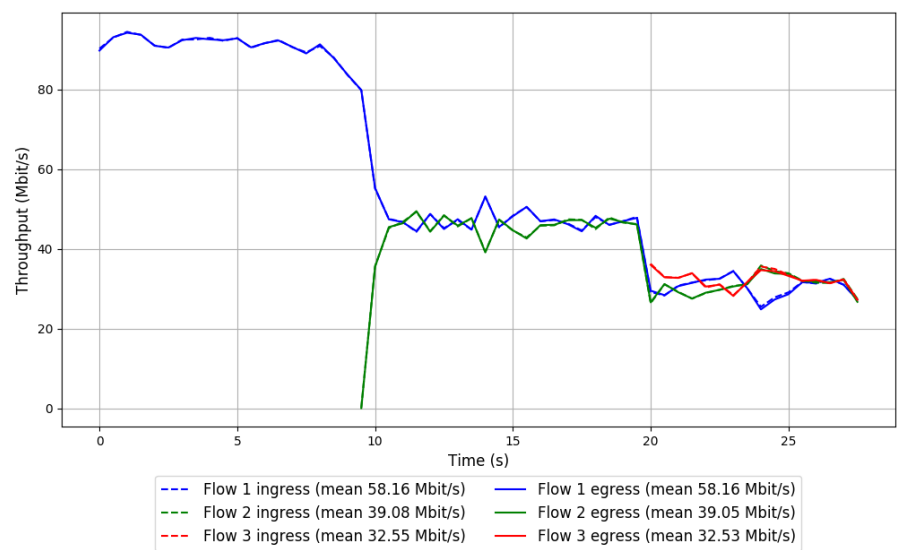
-- Flow 3:

Average throughput: 32.53 Mbit/s

95th percentile per-packet one-way delay: 30.953 ms

Loss rate: 0.36%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 12:22:08

End at: 2018-01-26 12:22:38

Local clock offset: -0.125 ms

Remote clock offset: 0.682 ms

Below is generated by plot.py at 2018-01-26 16:53:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 28.560 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 58.37 Mbit/s

95th percentile per-packet one-way delay: 11.963 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 39.60 Mbit/s

95th percentile per-packet one-way delay: 29.672 ms

Loss rate: 0.13%

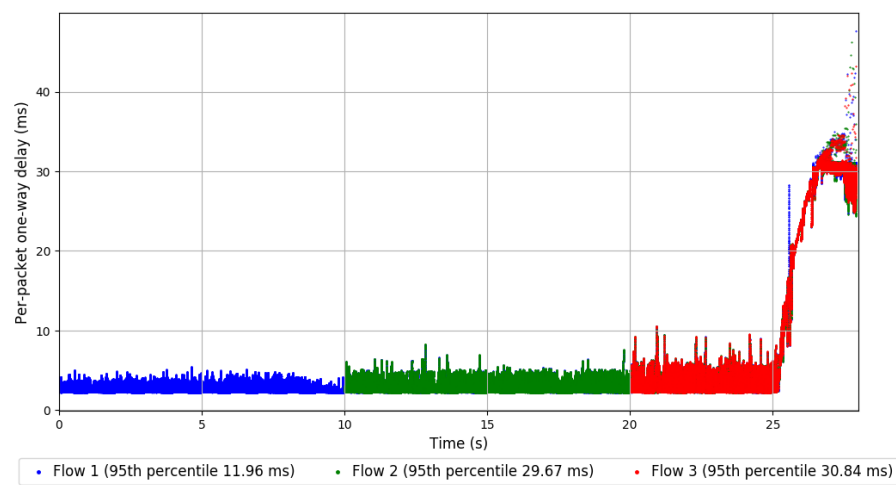
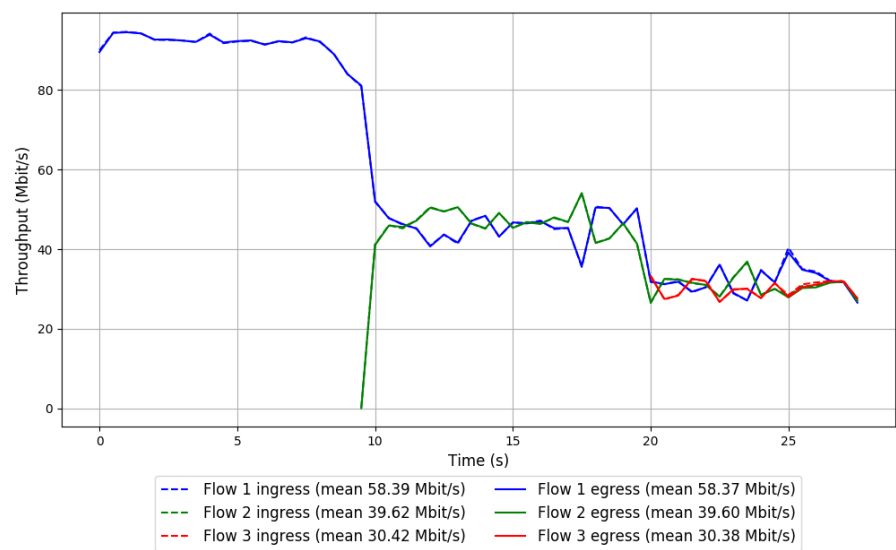
-- Flow 3:

Average throughput: 30.38 Mbit/s

95th percentile per-packet one-way delay: 30.835 ms

Loss rate: 0.40%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 12:40:12

End at: 2018-01-26 12:40:42

Local clock offset: -0.009 ms

Remote clock offset: 0.479 ms

Below is generated by plot.py at 2018-01-26 16:53:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.53 Mbit/s

95th percentile per-packet one-way delay: 22.369 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 70.25 Mbit/s

95th percentile per-packet one-way delay: 21.820 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 11.46 Mbit/s

95th percentile per-packet one-way delay: 21.788 ms

Loss rate: 0.06%

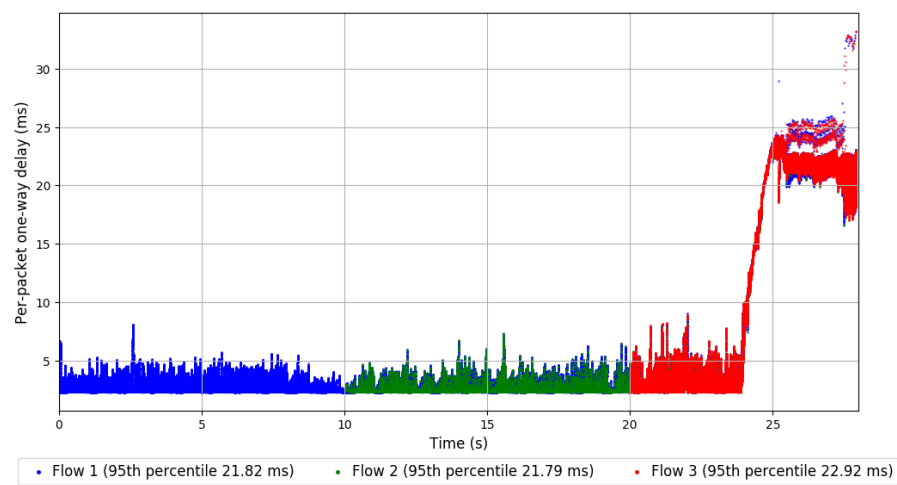
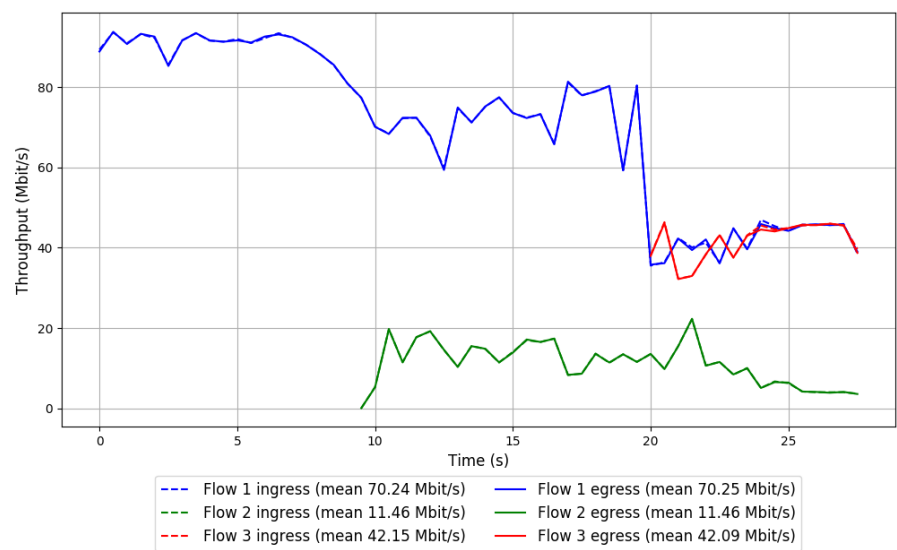
-- Flow 3:

Average throughput: 42.09 Mbit/s

95th percentile per-packet one-way delay: 22.917 ms

Loss rate: 0.41%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 12:58:14

End at: 2018-01-26 12:58:44

Local clock offset: 0.071 ms

Remote clock offset: -4.51 ms

Below is generated by plot.py at 2018-01-26 16:53:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.74 Mbit/s

95th percentile per-packet one-way delay: 35.818 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 61.19 Mbit/s

95th percentile per-packet one-way delay: 35.011 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 37.55 Mbit/s

95th percentile per-packet one-way delay: 35.879 ms

Loss rate: 0.25%

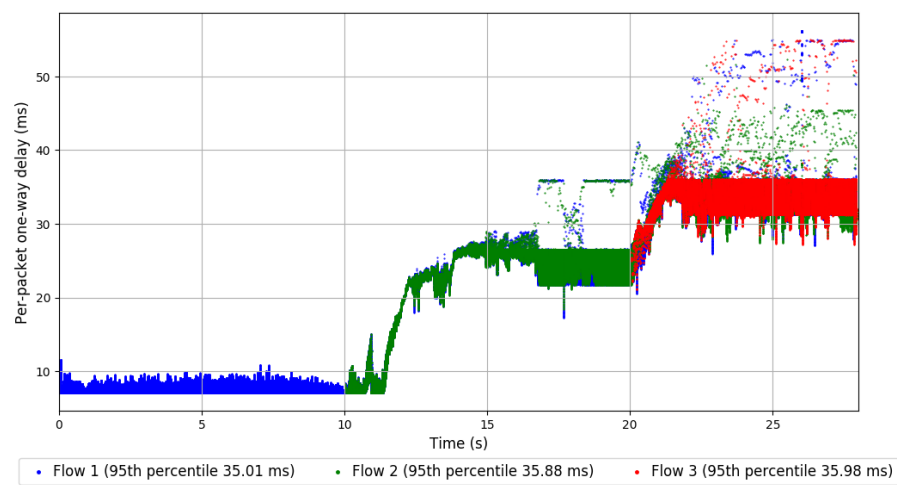
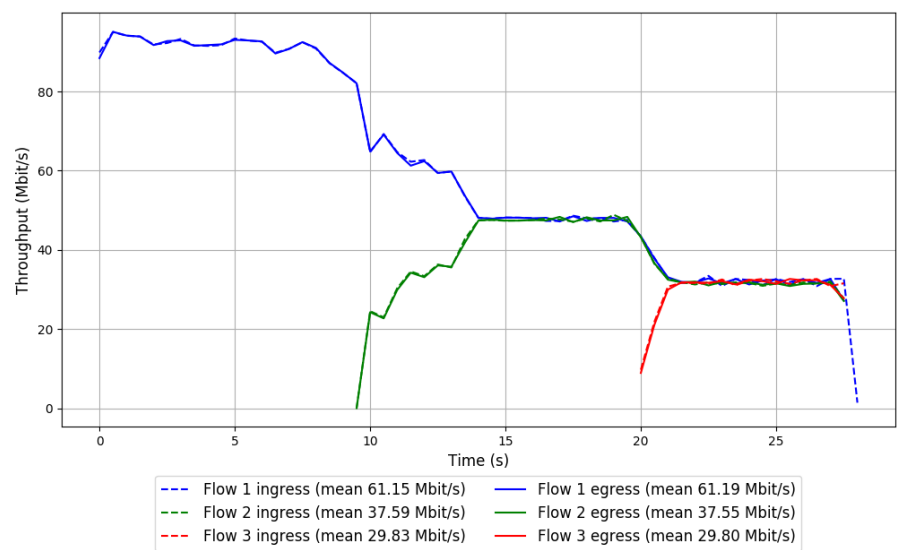
-- Flow 3:

Average throughput: 29.80 Mbit/s

95th percentile per-packet one-way delay: 35.978 ms

Loss rate: 1.18%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 13:16:16

End at: 2018-01-26 13:16:46

Local clock offset: 0.129 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-01-26 16:54:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.62 Mbit/s

95th percentile per-packet one-way delay: 4.293 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 4.073 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 3.299 ms

Loss rate: 0.00%

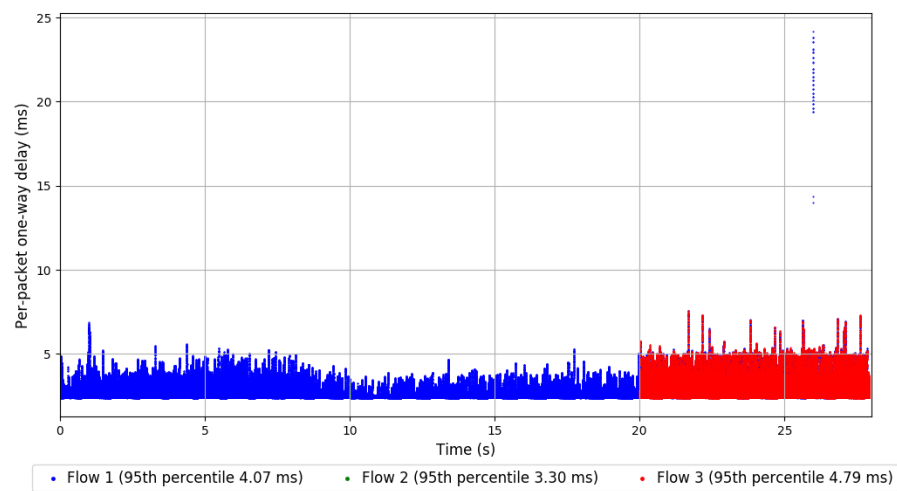
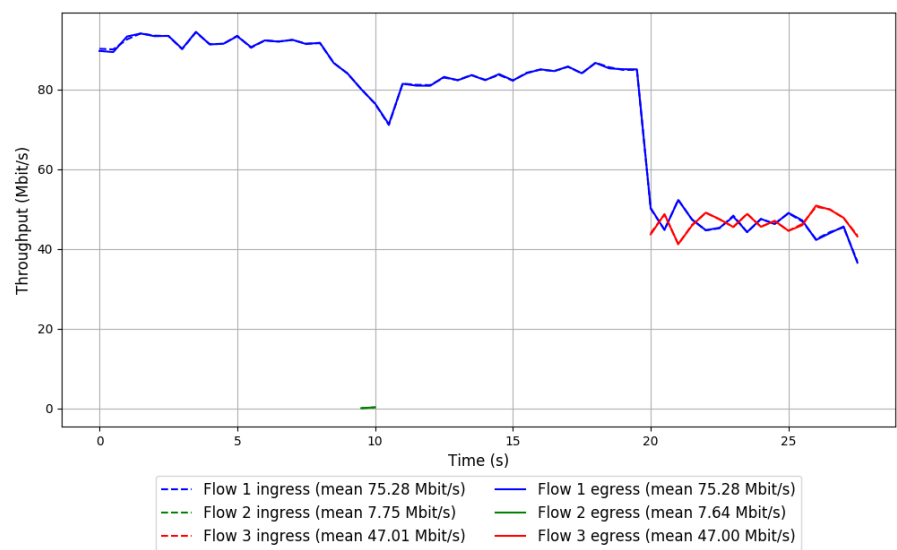
-- Flow 3:

Average throughput: 47.00 Mbit/s

95th percentile per-packet one-way delay: 4.795 ms

Loss rate: 0.08%

Run 9: Report of Copa — Data Link

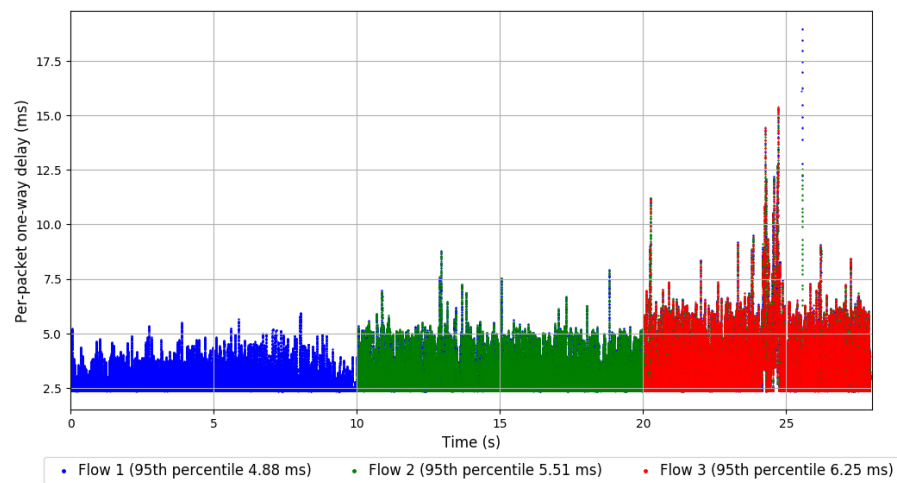
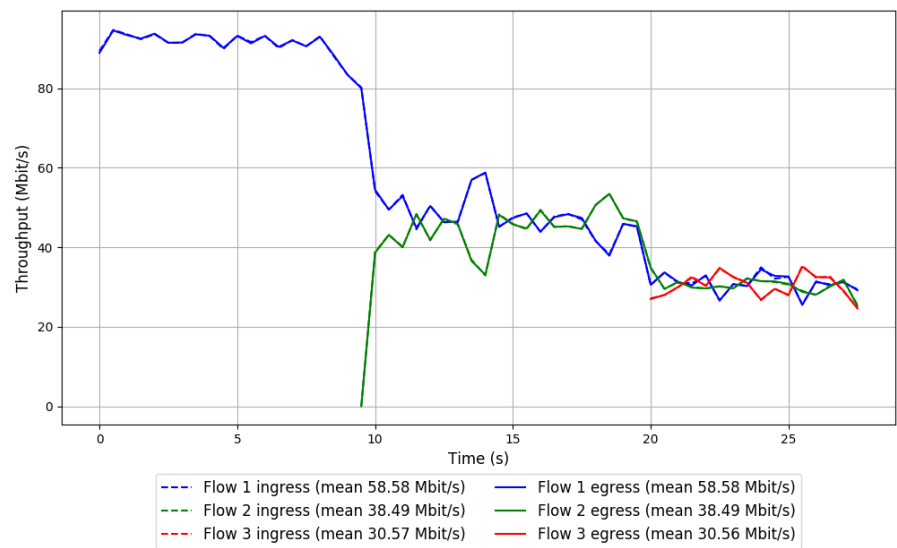


Run 10: Statistics of Copa

Start at: 2018-01-26 13:34:24
End at: 2018-01-26 13:34:54
Local clock offset: 0.154 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-01-26 16:54:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.96 Mbit/s
95th percentile per-packet one-way delay: 5.319 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 58.58 Mbit/s
95th percentile per-packet one-way delay: 4.885 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.49 Mbit/s
95th percentile per-packet one-way delay: 5.514 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 6.246 ms
Loss rate: 0.06%

Run 10: Report of Copa — Data Link



Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 10:48:23

End at: 2018-01-26 10:48:53

Local clock offset: -0.115 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2018-01-26 16:54:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.08 Mbit/s

95th percentile per-packet one-way delay: 11.799 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 63.45 Mbit/s

95th percentile per-packet one-way delay: 11.646 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 31.82 Mbit/s

95th percentile per-packet one-way delay: 12.381 ms

Loss rate: 0.02%

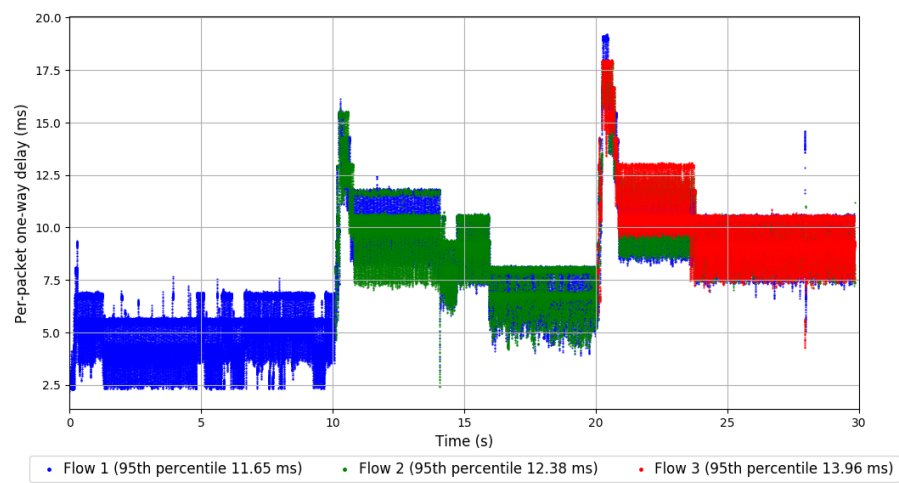
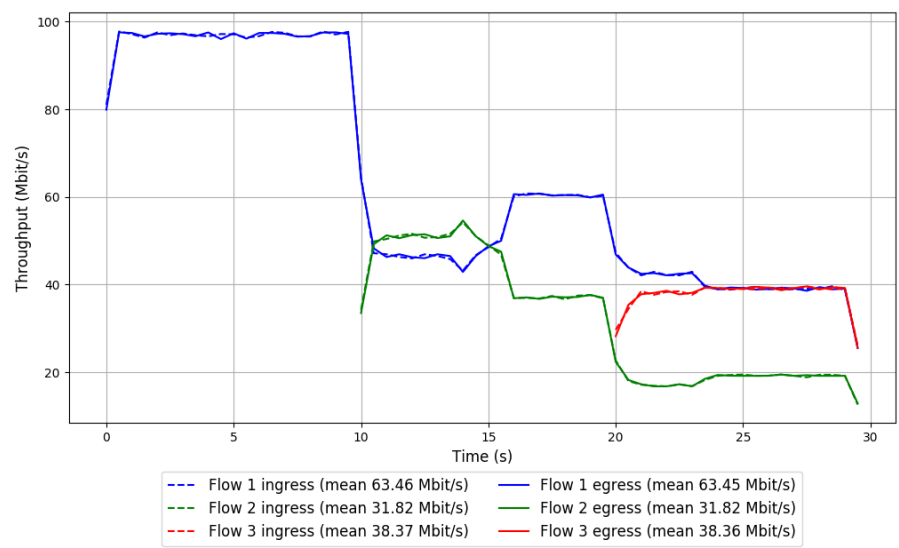
-- Flow 3:

Average throughput: 38.36 Mbit/s

95th percentile per-packet one-way delay: 13.955 ms

Loss rate: 0.13%

Run 1: Report of Indigo-2-256 — Data Link



Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 11:06:27

End at: 2018-01-26 11:06:57

Local clock offset: -0.106 ms

Remote clock offset: 0.509 ms

Below is generated by plot.py at 2018-01-26 16:54:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.97 Mbit/s

95th percentile per-packet one-way delay: 14.133 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 57.23 Mbit/s

95th percentile per-packet one-way delay: 12.949 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 37.70 Mbit/s

95th percentile per-packet one-way delay: 14.120 ms

Loss rate: 0.05%

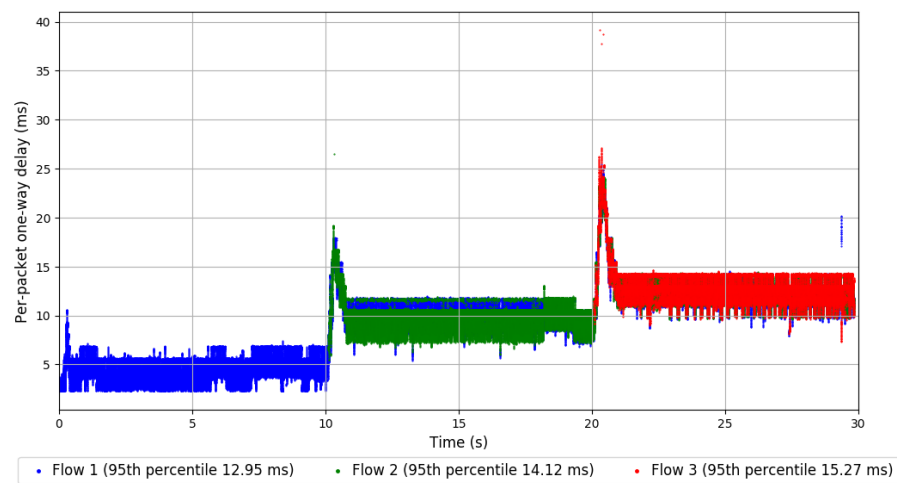
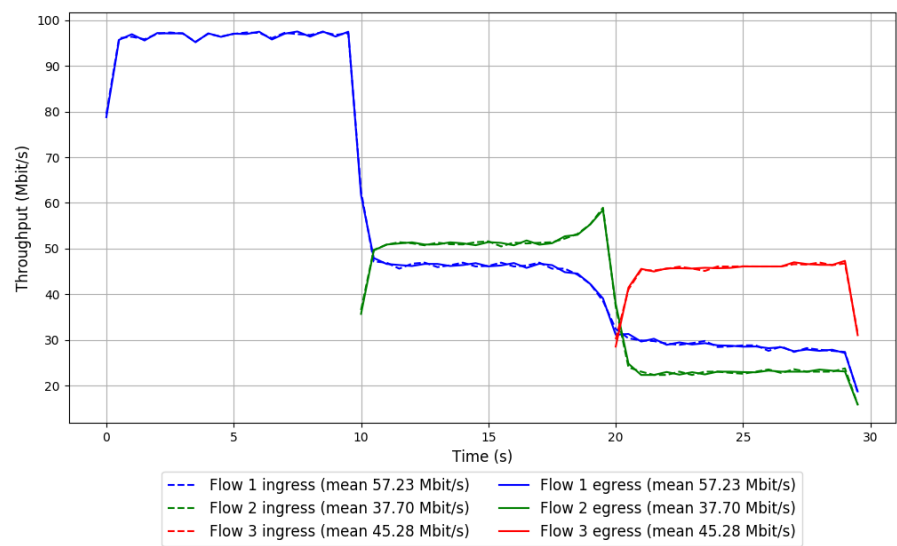
-- Flow 3:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 15.266 ms

Loss rate: 0.14%

Run 2: Report of Indigo-2-256 — Data Link



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 11:24:31

End at: 2018-01-26 11:25:01

Local clock offset: -0.084 ms

Remote clock offset: 0.721 ms

Below is generated by plot.py at 2018-01-26 16:54:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.06 Mbit/s

95th percentile per-packet one-way delay: 12.975 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 12.461 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 41.74 Mbit/s

95th percentile per-packet one-way delay: 13.090 ms

Loss rate: 0.06%

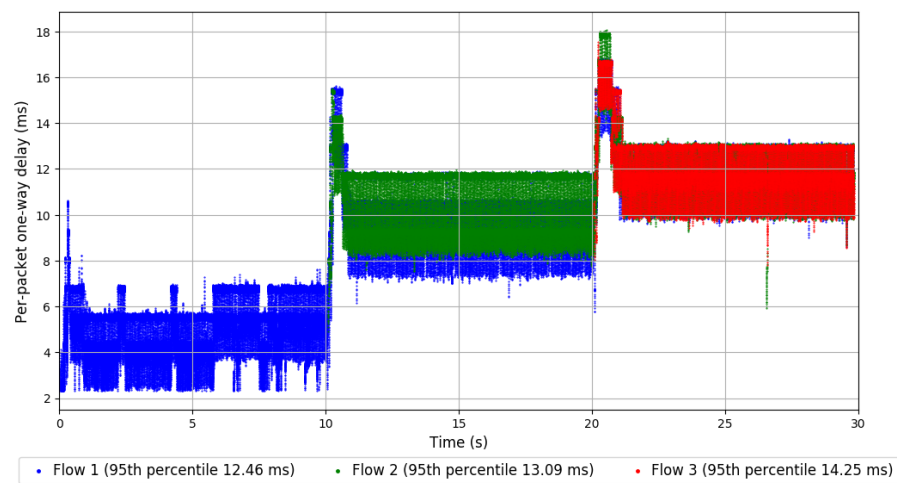
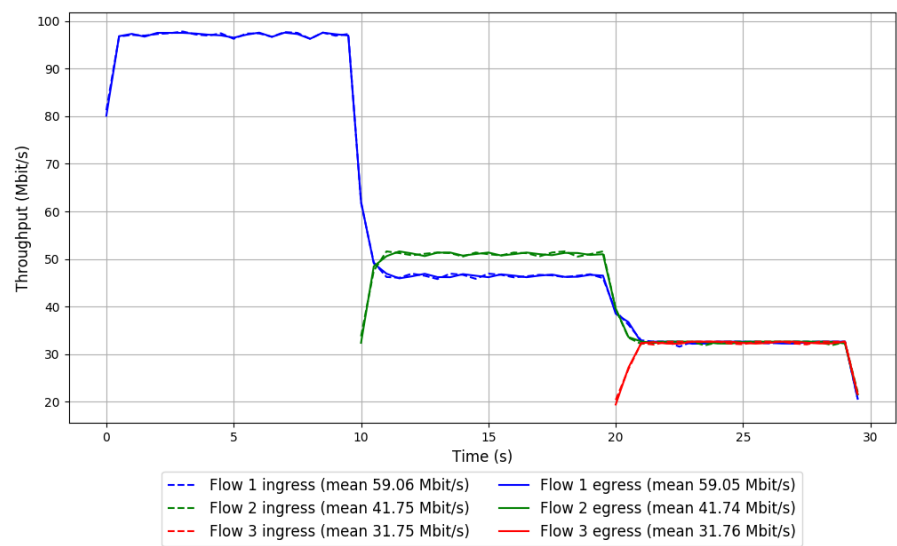
-- Flow 3:

Average throughput: 31.76 Mbit/s

95th percentile per-packet one-way delay: 14.254 ms

Loss rate: 0.10%

Run 3: Report of Indigo-2-256 — Data Link

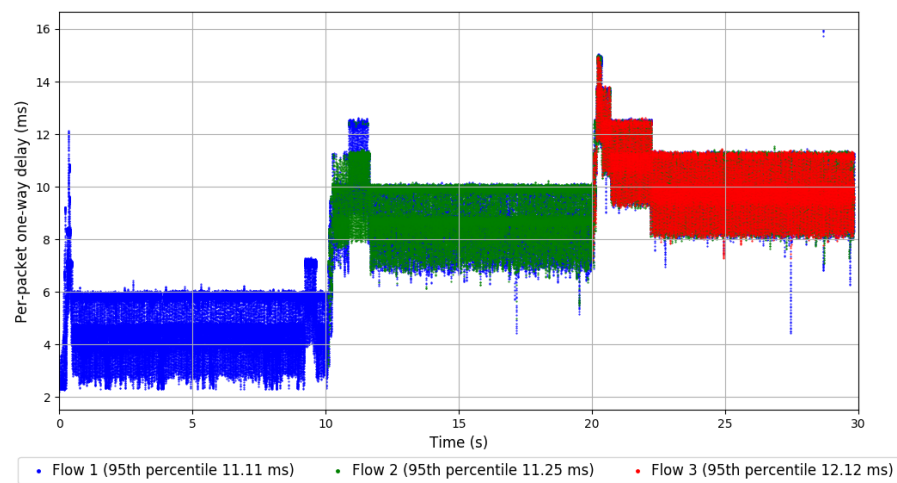
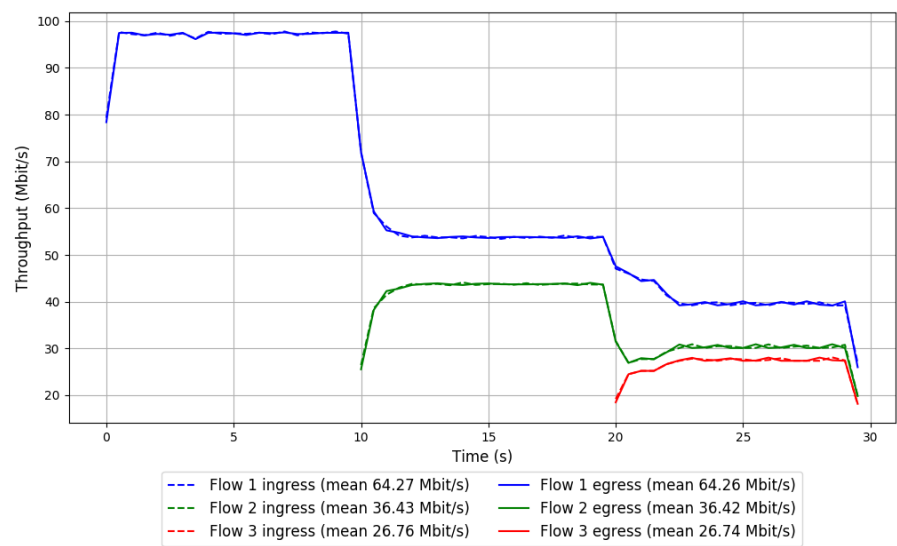


Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 11:42:34
End at: 2018-01-26 11:43:04
Local clock offset: -0.116 ms
Remote clock offset: 0.845 ms

Below is generated by plot.py at 2018-01-26 16:54:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 11.213 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 64.26 Mbit/s
95th percentile per-packet one-way delay: 11.114 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 36.42 Mbit/s
95th percentile per-packet one-way delay: 11.247 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 26.74 Mbit/s
95th percentile per-packet one-way delay: 12.121 ms
Loss rate: 0.11%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 12:00:38

End at: 2018-01-26 12:01:08

Local clock offset: -0.183 ms

Remote clock offset: 0.778 ms

Below is generated by plot.py at 2018-01-26 16:54:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.14 Mbit/s

95th percentile per-packet one-way delay: 11.456 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 11.202 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 11.811 ms

Loss rate: 0.05%

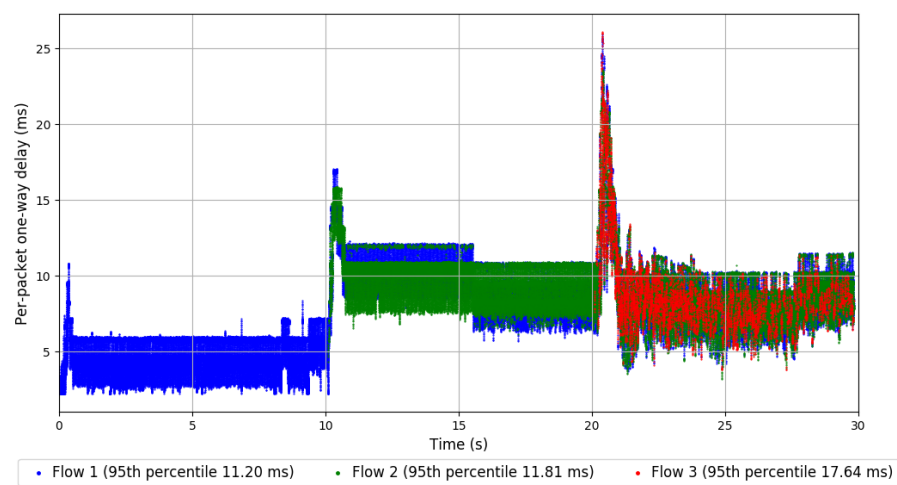
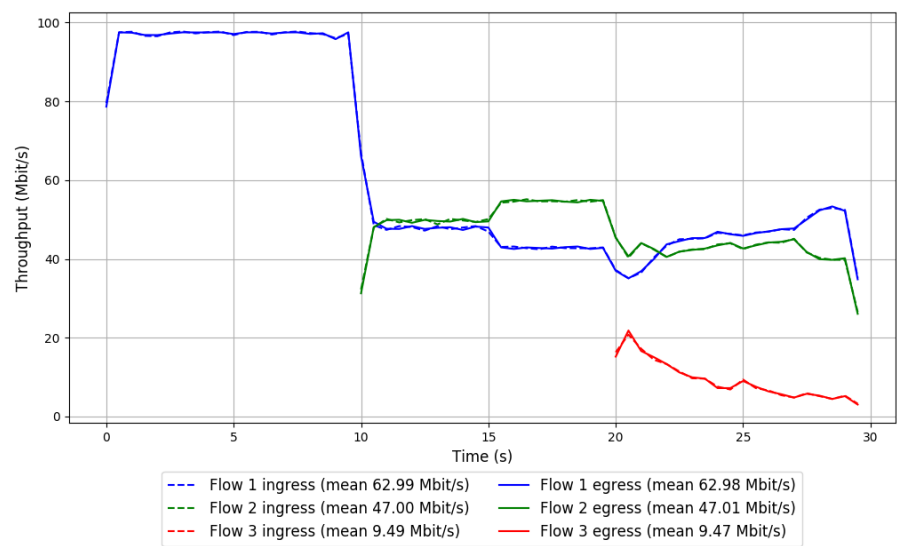
-- Flow 3:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 17.636 ms

Loss rate: 0.18%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 12:18:43

End at: 2018-01-26 12:19:13

Local clock offset: -0.065 ms

Remote clock offset: 0.698 ms

Below is generated by plot.py at 2018-01-26 16:54:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 88.69 Mbit/s

95th percentile per-packet one-way delay: 11.688 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 48.77 Mbit/s

95th percentile per-packet one-way delay: 10.591 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 39.82 Mbit/s

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

Loss rate: 0.01%

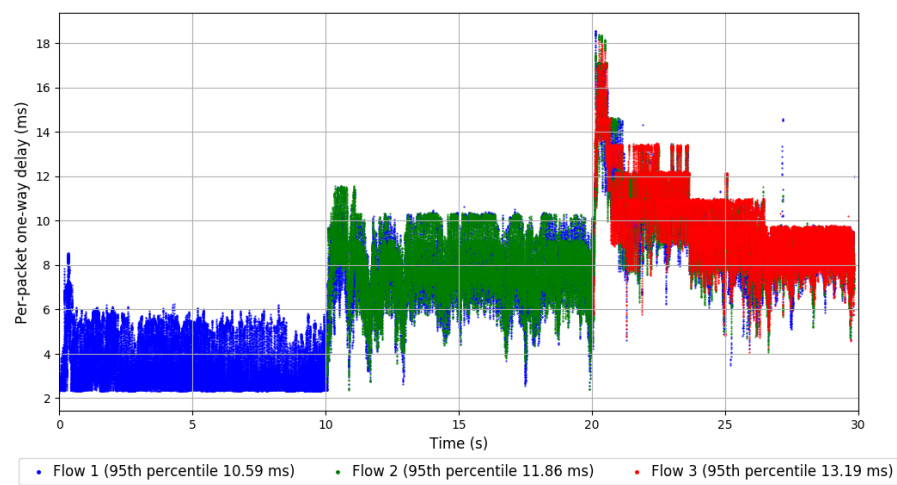
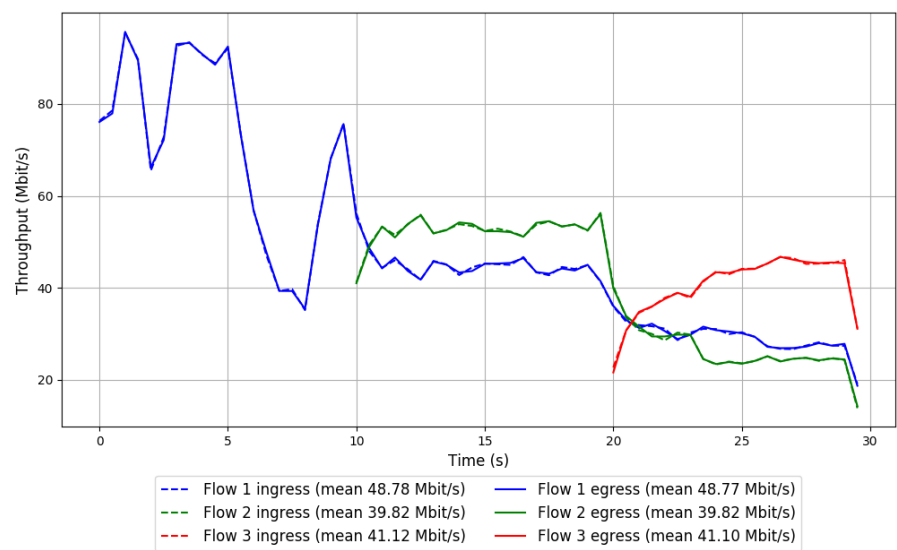
-- Flow 3:

Average throughput: 41.10 Mbit/s

95th percentile per-packet one-way delay: 13.191 ms

Loss rate: 0.13%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 12:36:46

End at: 2018-01-26 12:37:16

Local clock offset: -0.065 ms

Remote clock offset: 0.526 ms

Below is generated by plot.py at 2018-01-26 16:55:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.13 Mbit/s

95th percentile per-packet one-way delay: 14.402 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 13.282 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 47.68 Mbit/s

95th percentile per-packet one-way delay: 14.477 ms

Loss rate: 0.06%

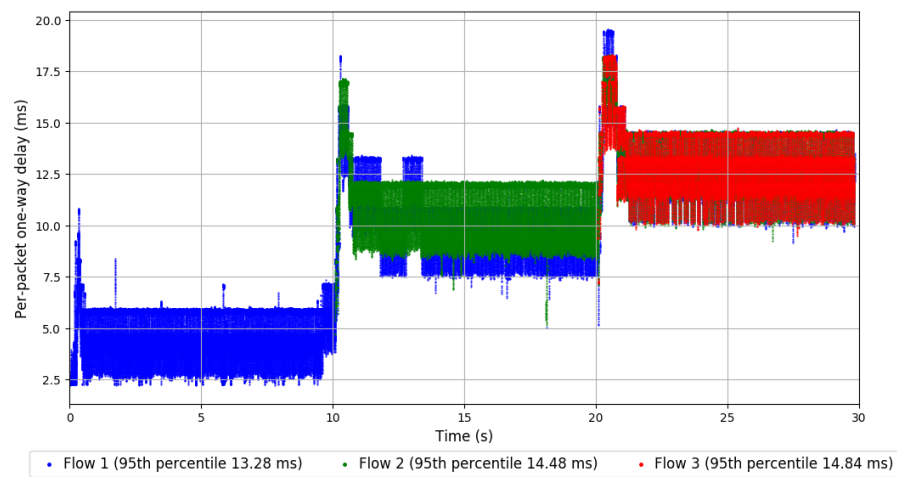
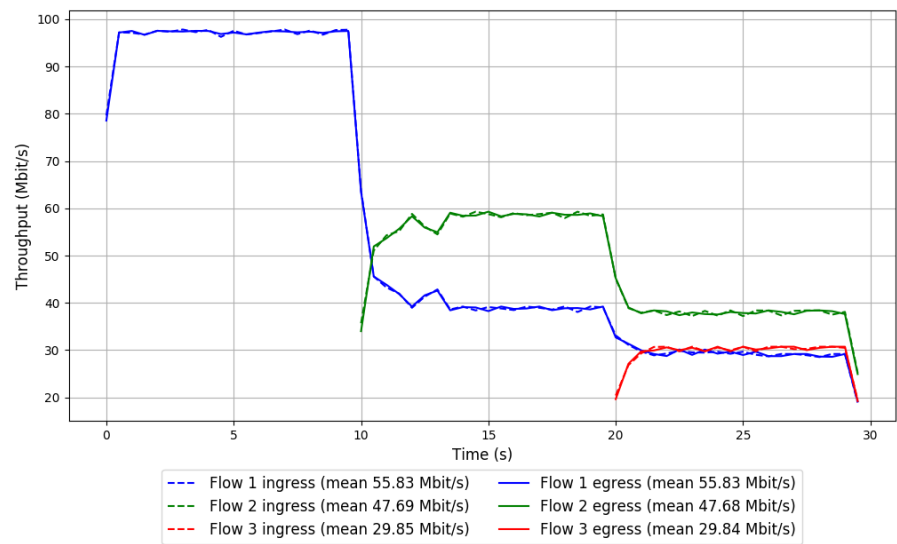
-- Flow 3:

Average throughput: 29.84 Mbit/s

95th percentile per-packet one-way delay: 14.840 ms

Loss rate: 0.16%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 12:54:49

End at: 2018-01-26 12:55:19

Local clock offset: 0.036 ms

Remote clock offset: 0.327 ms

Below is generated by plot.py at 2018-01-26 16:55:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.12 Mbit/s

95th percentile per-packet one-way delay: 11.929 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 63.01 Mbit/s

95th percentile per-packet one-way delay: 11.166 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 38.38 Mbit/s

95th percentile per-packet one-way delay: 12.239 ms

Loss rate: 0.05%

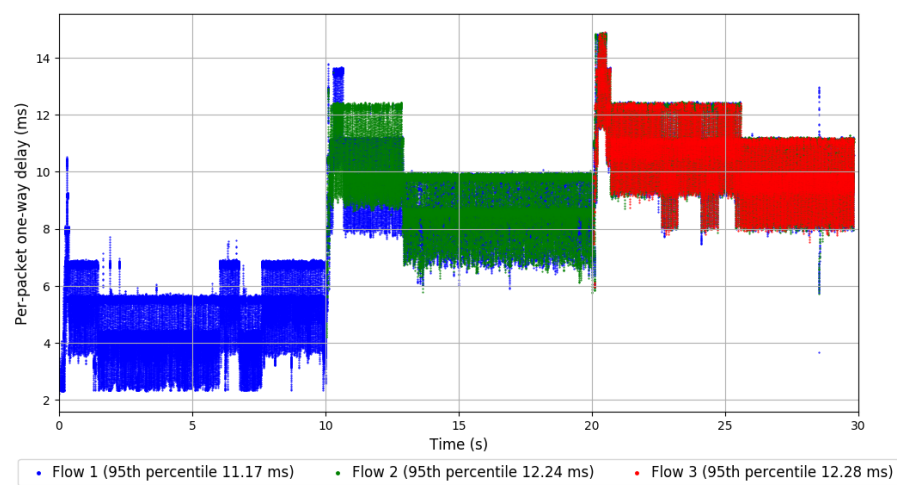
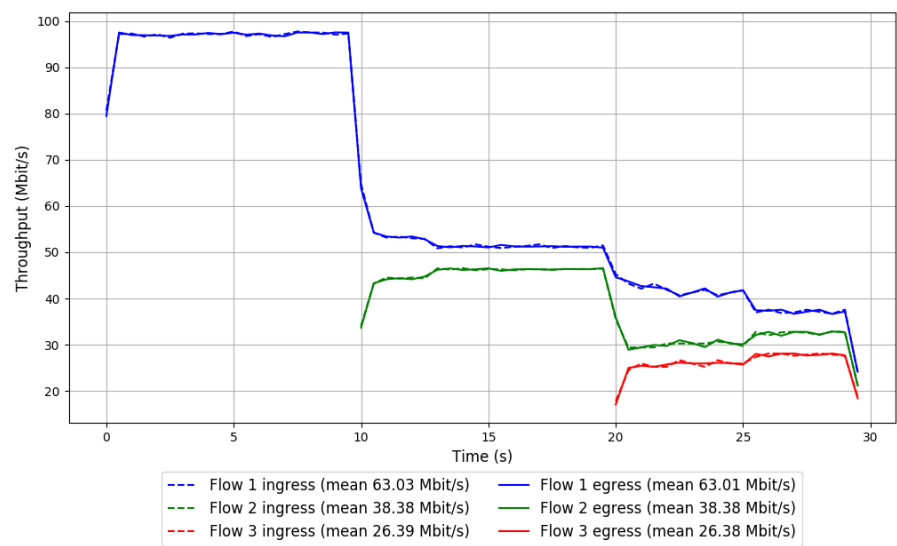
-- Flow 3:

Average throughput: 26.38 Mbit/s

95th percentile per-packet one-way delay: 12.281 ms

Loss rate: 0.14%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 13:12:51

End at: 2018-01-26 13:13:21

Local clock offset: 0.129 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-01-26 16:55:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 11.922 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 58.88 Mbit/s

95th percentile per-packet one-way delay: 10.846 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 39.39 Mbit/s

95th percentile per-packet one-way delay: 12.029 ms

Loss rate: 0.04%

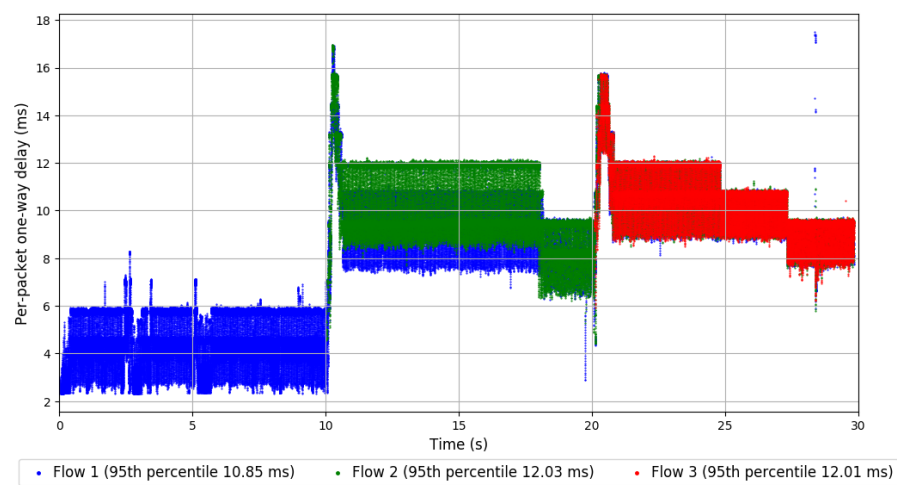
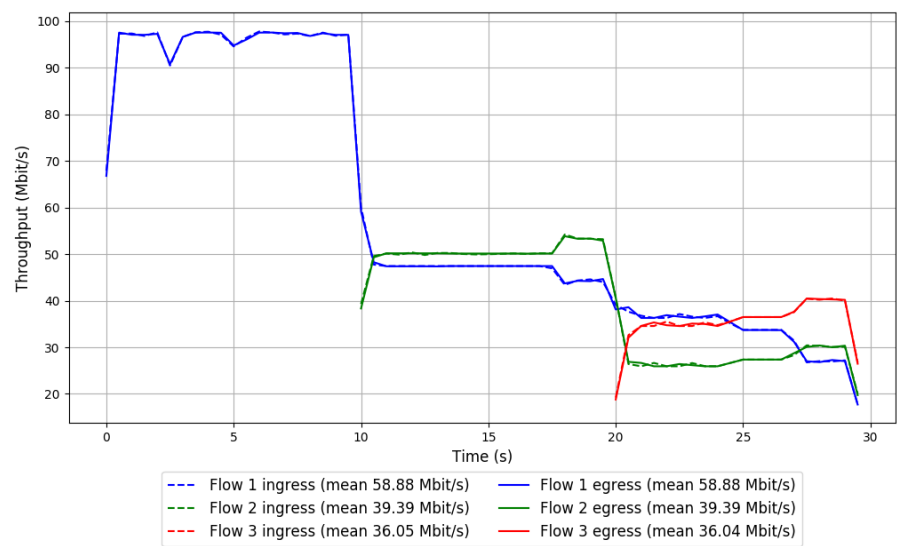
-- Flow 3:

Average throughput: 36.04 Mbit/s

95th percentile per-packet one-way delay: 12.013 ms

Loss rate: 0.14%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 13:30:58

End at: 2018-01-26 13:31:28

Local clock offset: 0.156 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-01-26 16:56:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.11 Mbit/s

95th percentile per-packet one-way delay: 11.251 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 11.199 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 33.26 Mbit/s

95th percentile per-packet one-way delay: 11.374 ms

Loss rate: 0.06%

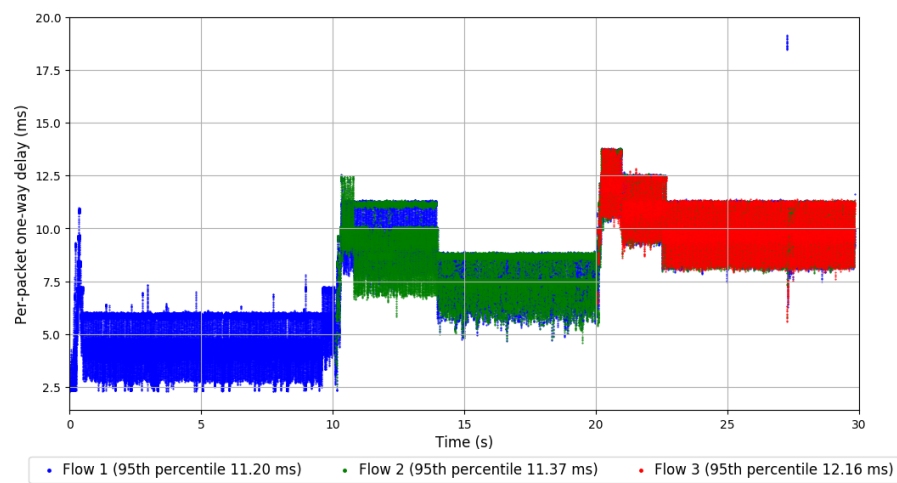
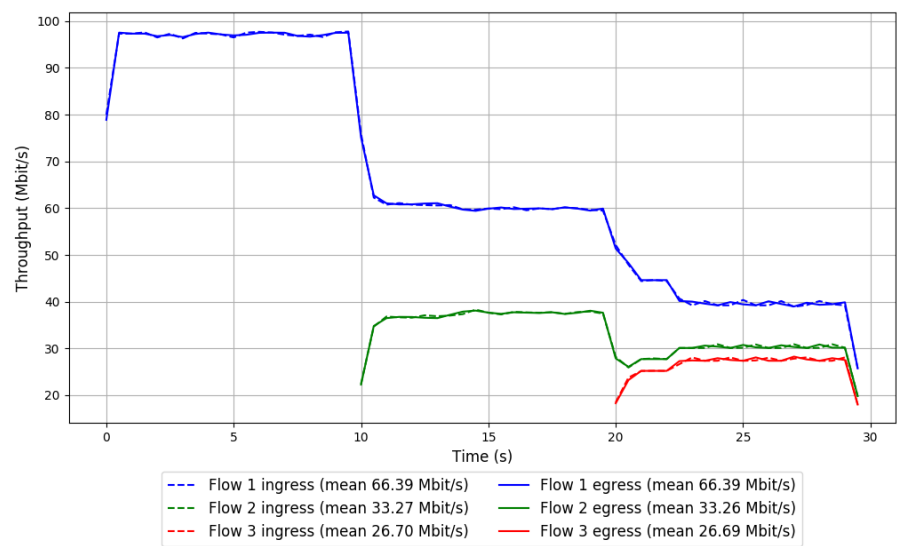
-- Flow 3:

Average throughput: 26.69 Mbit/s

95th percentile per-packet one-way delay: 12.162 ms

Loss rate: 0.14%

Run 10: Report of Indigo-2-256 — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 10:40:36

End at: 2018-01-26 10:41:06

Local clock offset: -0.181 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2018-01-26 16:56:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 13.746 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 10.903 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 13.718 ms

Loss rate: 0.05%

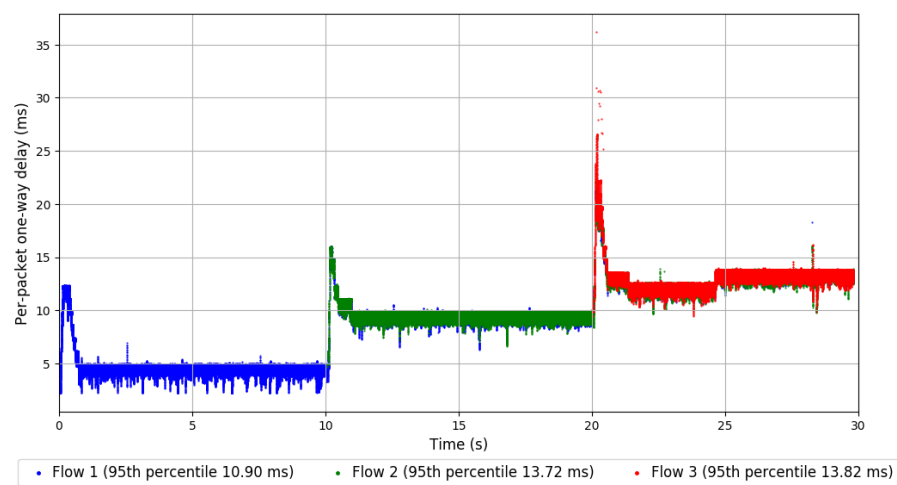
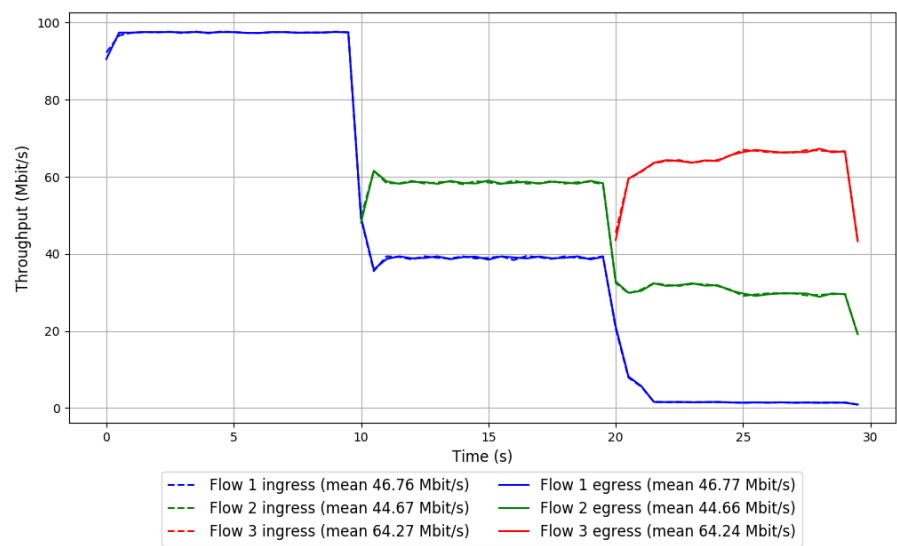
-- Flow 3:

Average throughput: 64.24 Mbit/s

95th percentile per-packet one-way delay: 13.824 ms

Loss rate: 0.16%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 10:58:39

End at: 2018-01-26 10:59:09

Local clock offset: -0.106 ms

Remote clock offset: 0.41 ms

Below is generated by plot.py at 2018-01-26 16:56:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 12.677 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 10.931 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.62 Mbit/s

95th percentile per-packet one-way delay: 12.660 ms

Loss rate: 0.04%

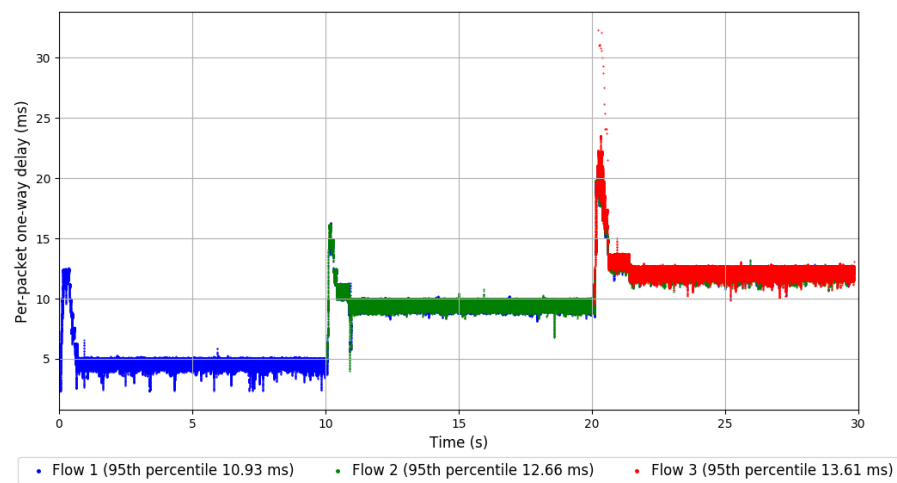
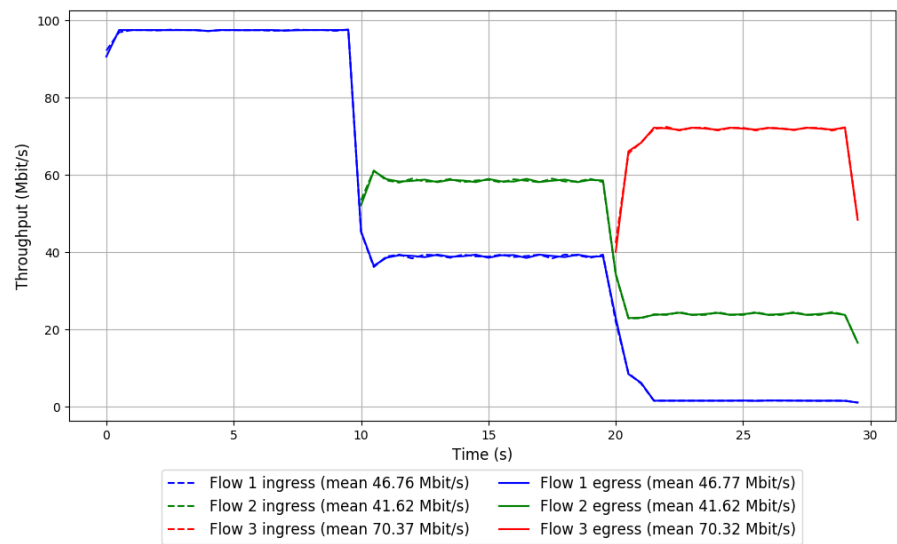
-- Flow 3:

Average throughput: 70.32 Mbit/s

95th percentile per-packet one-way delay: 13.606 ms

Loss rate: 0.14%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 11:16:43

End at: 2018-01-26 11:17:13

Local clock offset: -0.118 ms

Remote clock offset: 0.621 ms

Below is generated by plot.py at 2018-01-26 16:56:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.34 Mbit/s

95th percentile per-packet one-way delay: 10.929 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 48.19 Mbit/s

95th percentile per-packet one-way delay: 9.721 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 37.13 Mbit/s

95th percentile per-packet one-way delay: 10.765 ms

Loss rate: 0.03%

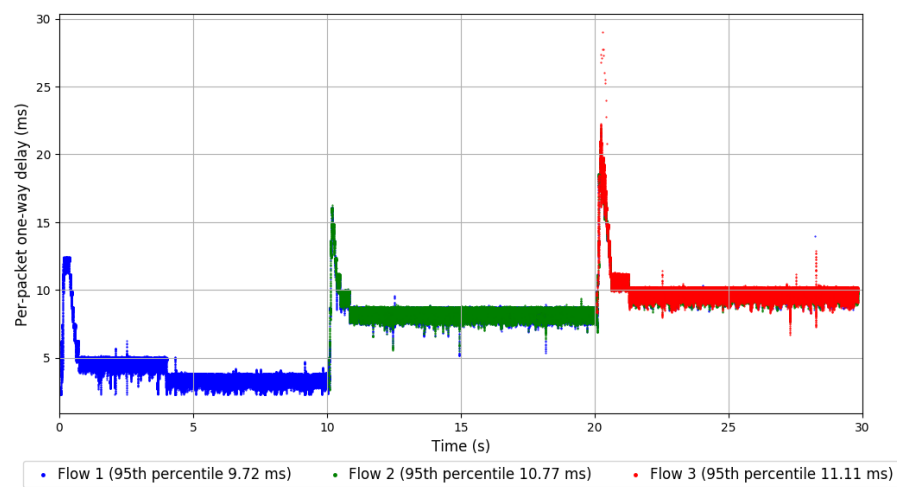
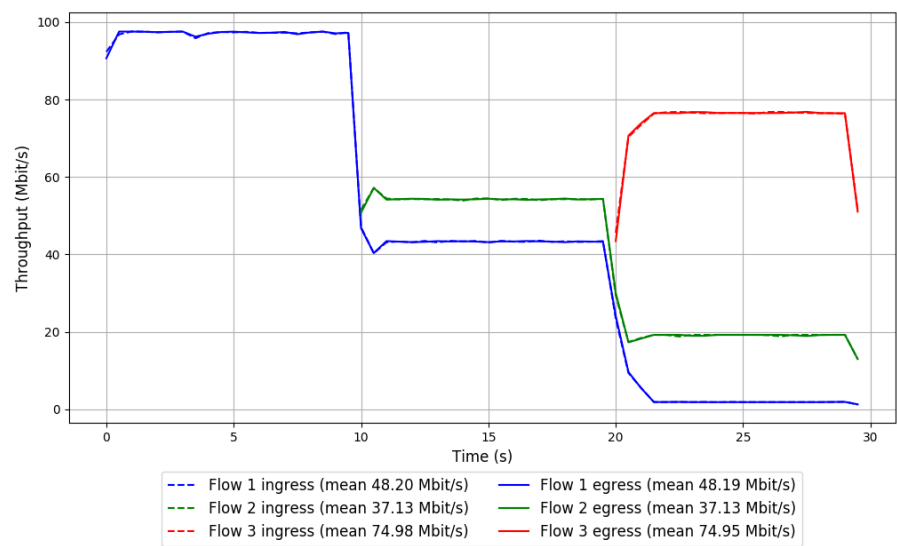
-- Flow 3:

Average throughput: 74.95 Mbit/s

95th percentile per-packet one-way delay: 11.114 ms

Loss rate: 0.12%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 11:34:46

End at: 2018-01-26 11:35:16

Local clock offset: -0.102 ms

Remote clock offset: 0.84 ms

Below is generated by plot.py at 2018-01-26 16:56:20

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 13.281 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 46.81 Mbit/s

95th percentile per-packet one-way delay: 11.023 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.43 Mbit/s

95th percentile per-packet one-way delay: 13.316 ms

Loss rate: 0.05%

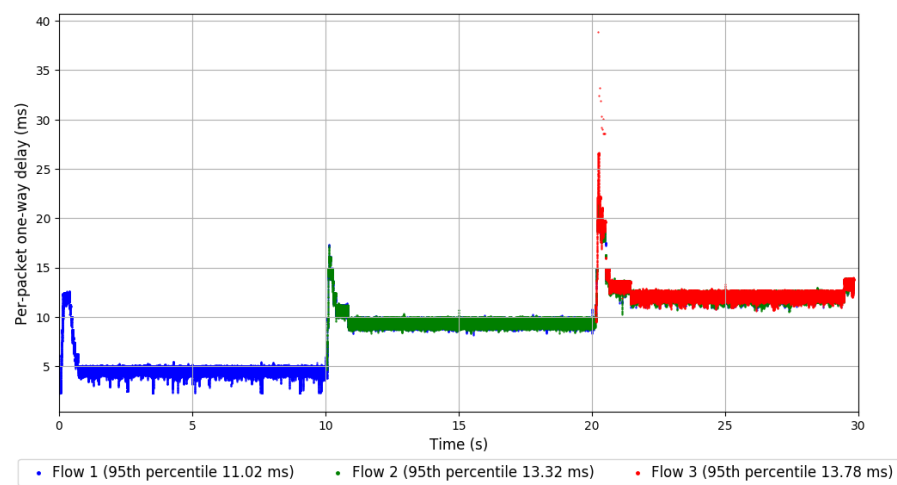
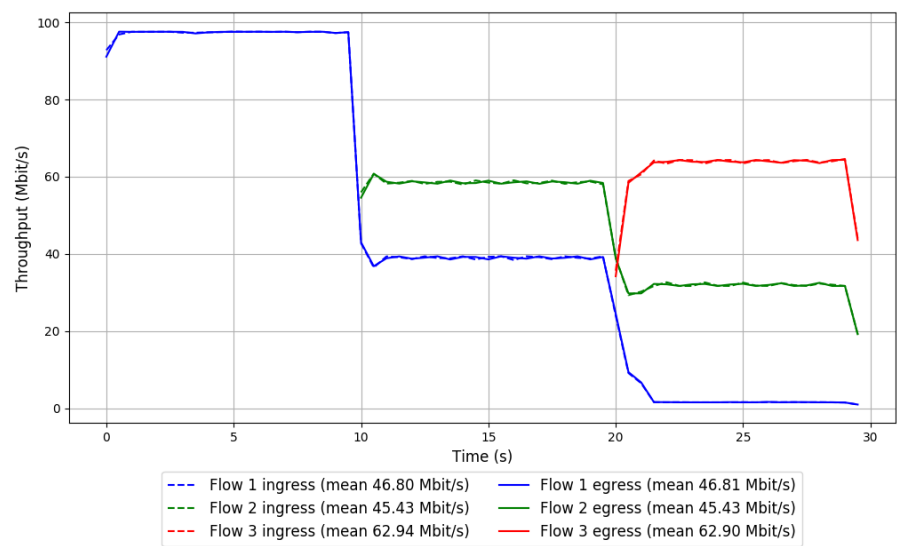
-- Flow 3:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 13.784 ms

Loss rate: 0.17%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 11:52:50

End at: 2018-01-26 11:53:20

Local clock offset: -0.165 ms

Remote clock offset: 0.792 ms

Below is generated by plot.py at 2018-01-26 16:56:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 10.963 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 51.07 Mbit/s

95th percentile per-packet one-way delay: 9.925 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 63.93 Mbit/s

95th percentile per-packet one-way delay: 10.960 ms

Loss rate: 0.04%

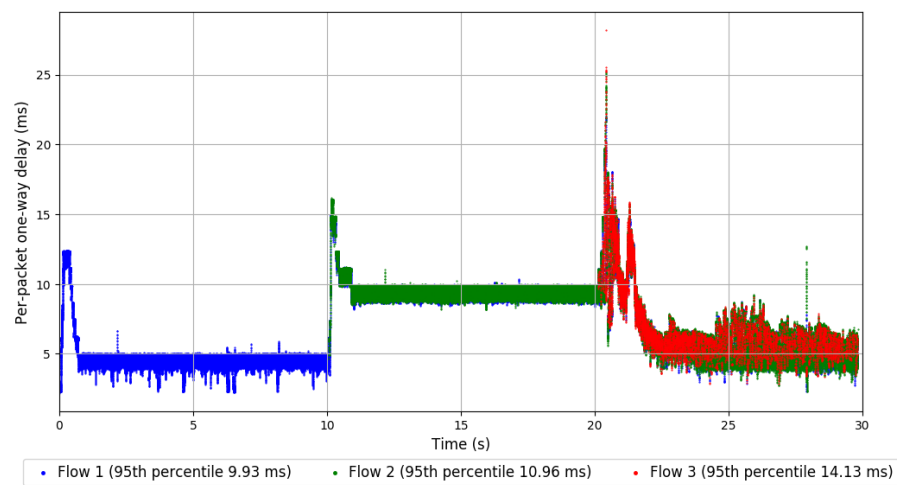
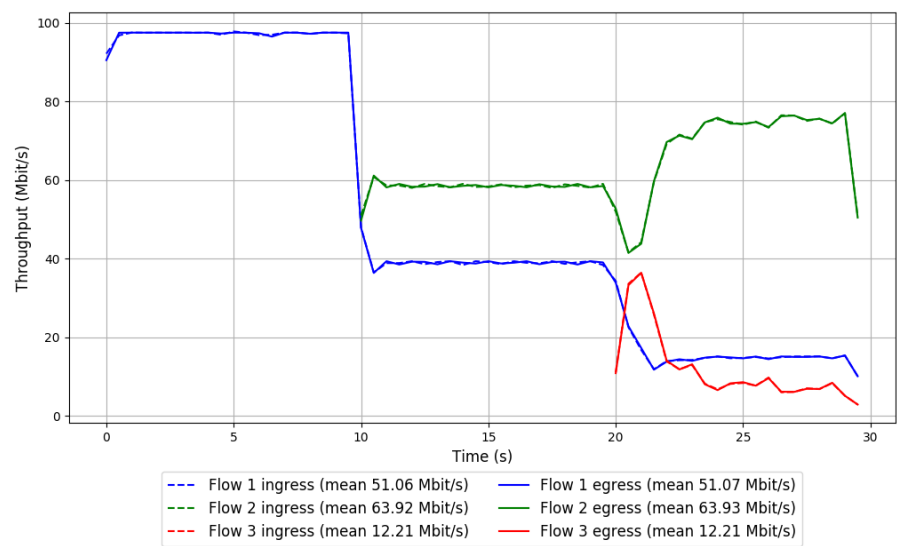
-- Flow 3:

Average throughput: 12.21 Mbit/s

95th percentile per-packet one-way delay: 14.131 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 12:10:54

End at: 2018-01-26 12:11:24

Local clock offset: -0.072 ms

Remote clock offset: 0.756 ms

Below is generated by plot.py at 2018-01-26 16:57:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 96.16 Mbit/s

95th percentile per-packet one-way delay: 9.889 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 9.215 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 11.742 ms

Loss rate: 0.02%

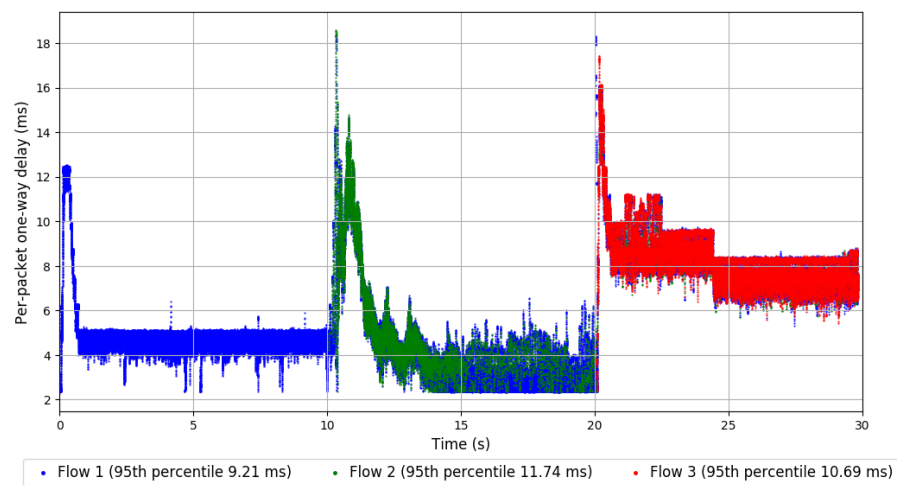
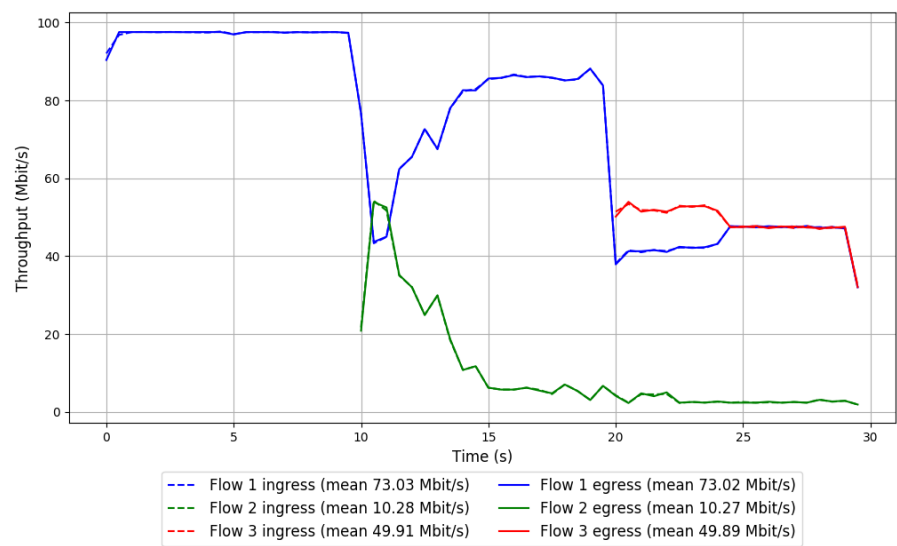
-- Flow 3:

Average throughput: 49.89 Mbit/s

95th percentile per-packet one-way delay: 10.690 ms

Loss rate: 0.09%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 12:28:57

End at: 2018-01-26 12:29:27

Local clock offset: -0.052 ms

Remote clock offset: 0.624 ms

Below is generated by plot.py at 2018-01-26 16:57:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 13.732 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 46.85 Mbit/s

95th percentile per-packet one-way delay: 9.964 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 47.01 Mbit/s

95th percentile per-packet one-way delay: 13.805 ms

Loss rate: 0.05%

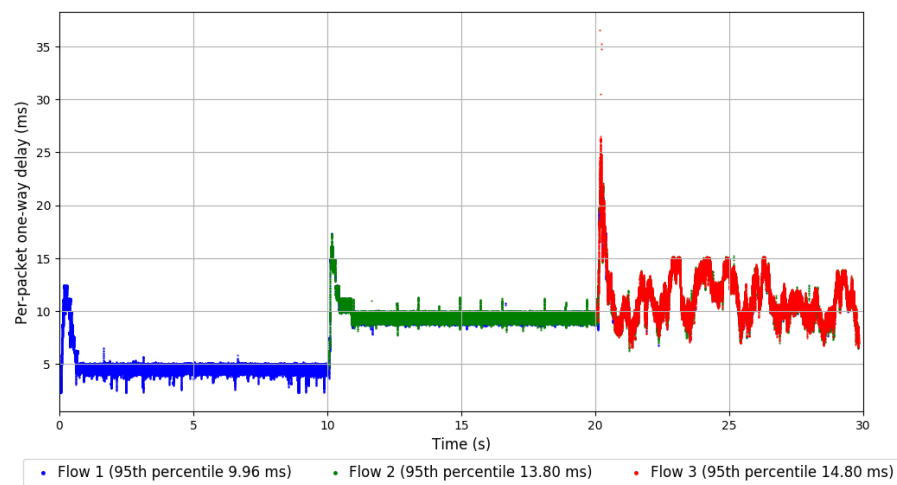
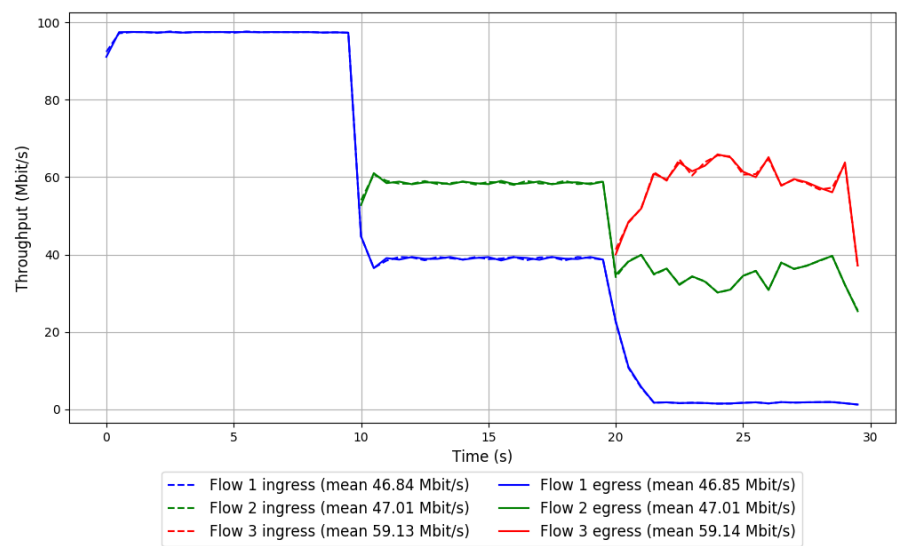
-- Flow 3:

Average throughput: 59.14 Mbit/s

95th percentile per-packet one-way delay: 14.801 ms

Loss rate: 0.10%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 12:47:05

End at: 2018-01-26 12:47:35

Local clock offset: 0.018 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-01-26 16:57:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.86 Mbit/s

95th percentile per-packet one-way delay: 13.114 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 6.217 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 57.67 Mbit/s

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

Loss rate: 0.02%

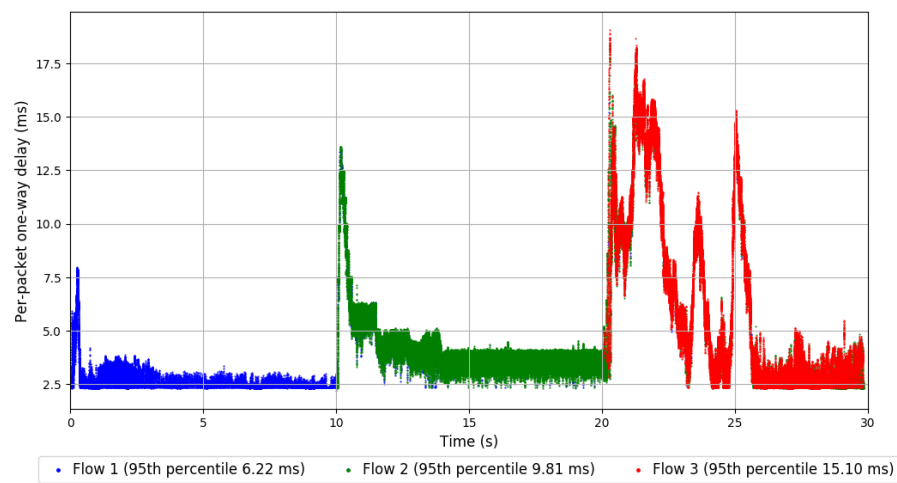
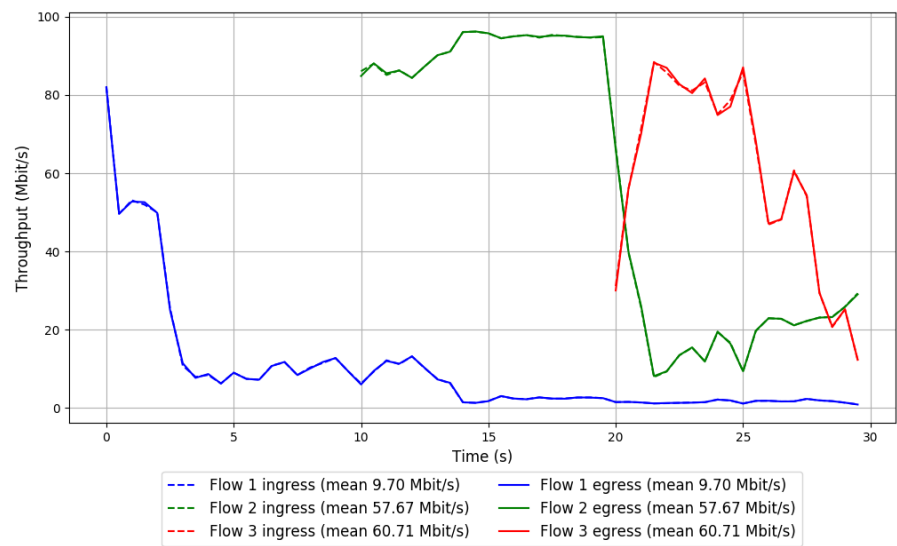
-- Flow 3:

Average throughput: 60.71 Mbit/s

95th percentile per-packet one-way delay: 15.104 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 13:05:04

End at: 2018-01-26 13:05:34

Local clock offset: 0.098 ms

Remote clock offset: 0.247 ms

Below is generated by plot.py at 2018-01-26 16:57:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 12.242 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 46.82 Mbit/s

95th percentile per-packet one-way delay: 10.980 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.02 Mbit/s

95th percentile per-packet one-way delay: 12.314 ms

Loss rate: 0.04%

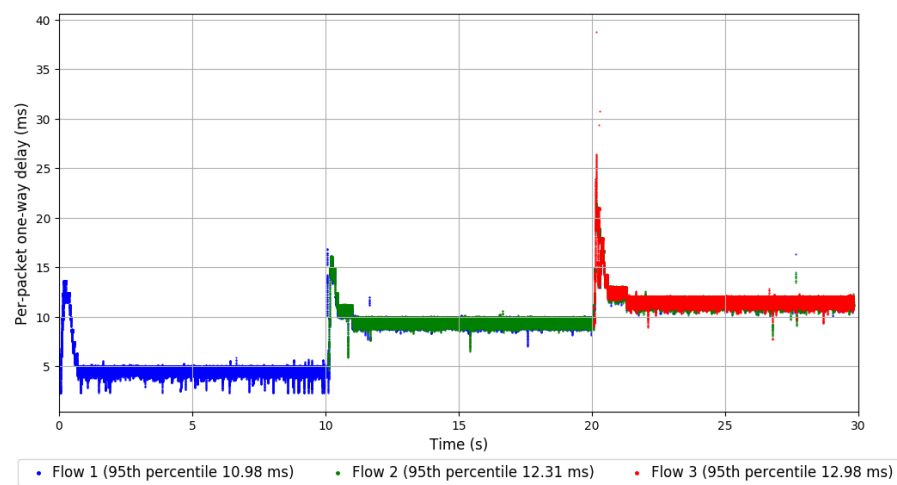
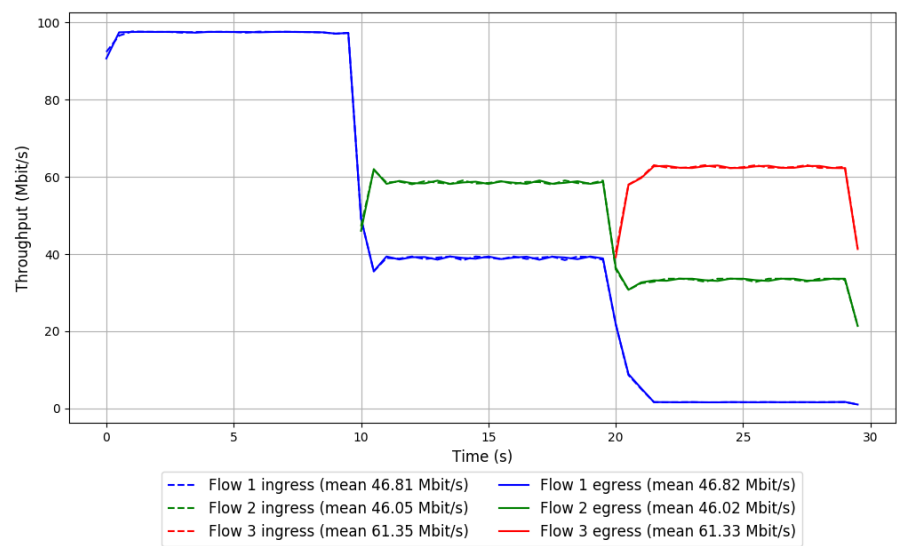
-- Flow 3:

Average throughput: 61.33 Mbit/s

95th percentile per-packet one-way delay: 12.976 ms

Loss rate: 0.15%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 13:23:09

End at: 2018-01-26 13:23:39

Local clock offset: 0.149 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-01-26 16:57:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 12.668 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 10.999 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.47 Mbit/s

95th percentile per-packet one-way delay: 12.733 ms

Loss rate: 0.04%

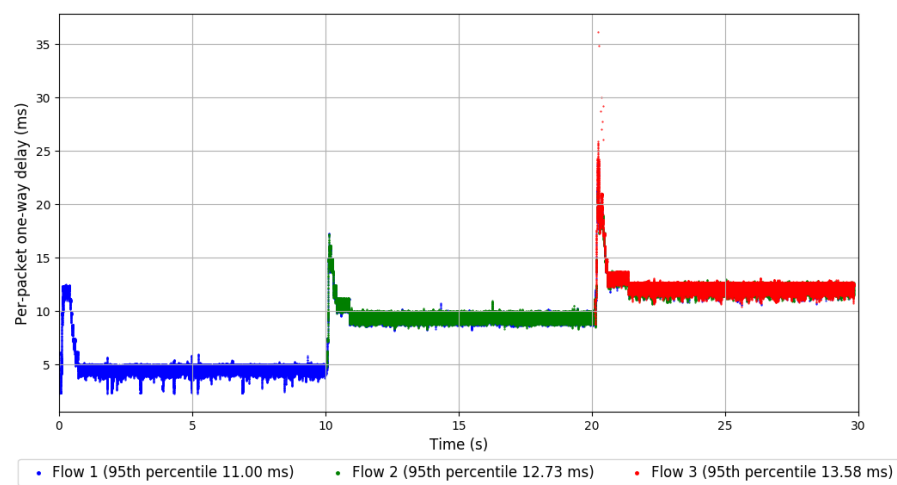
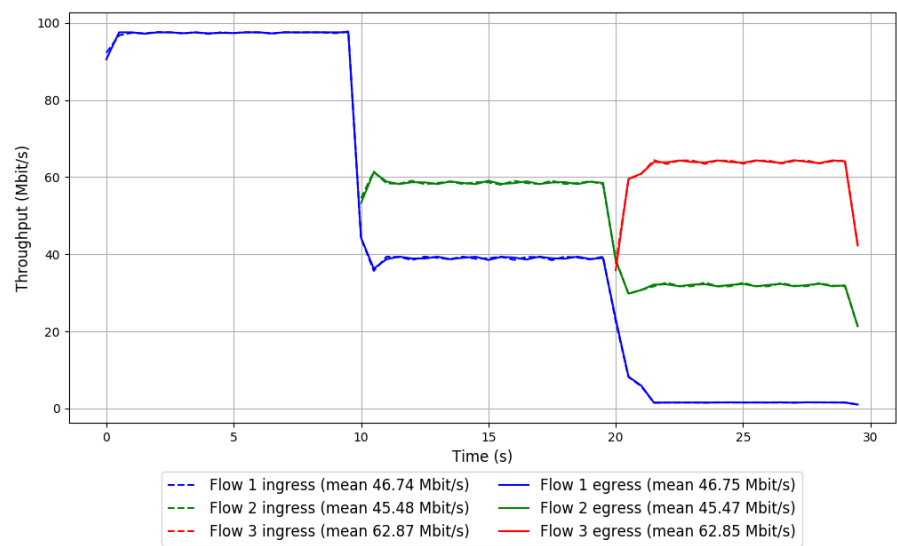
-- Flow 3:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 13.579 ms

Loss rate: 0.16%

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



Run 1: Statistics of Indigo-1-128

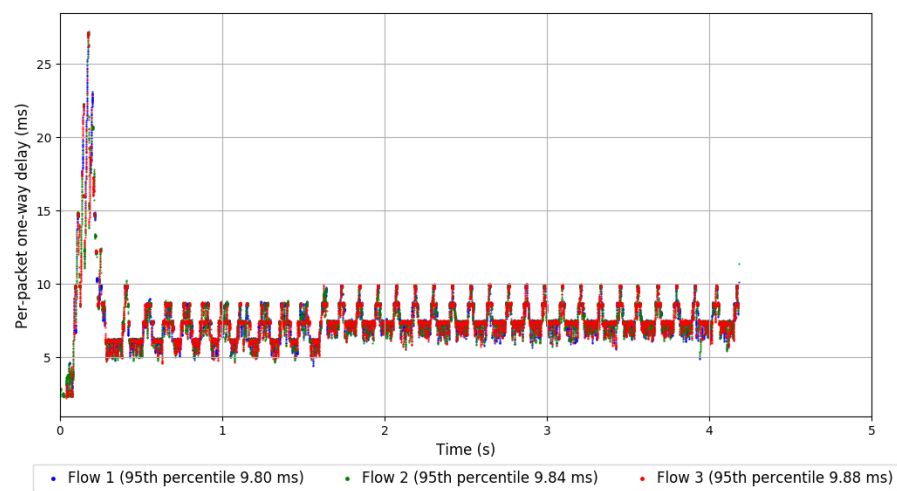
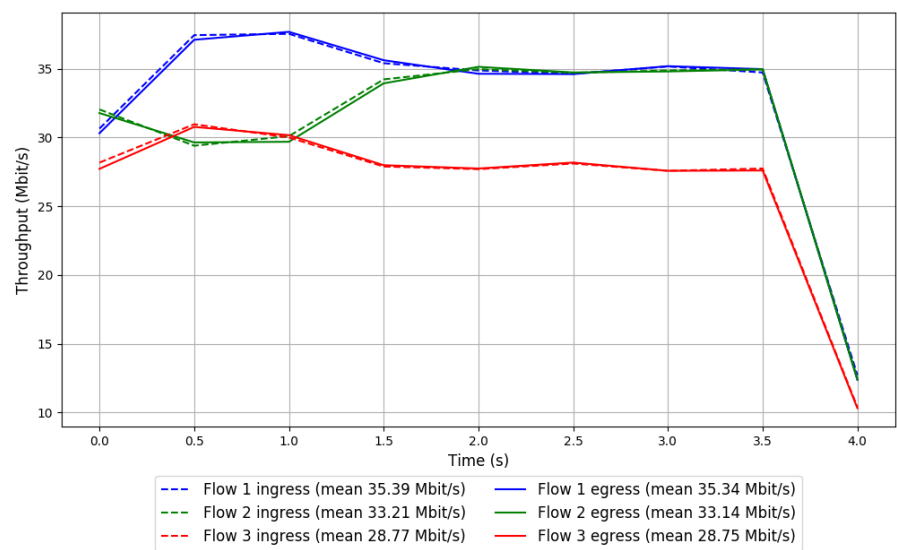
Start at: 2018-01-26 10:47:18

End at: 2018-01-26 10:47:48

Local clock offset: -0.1 ms

Remote clock offset: 0.287 ms

Run 1: Report of Indigo-1-128 — Data Link



Run 2: Statistics of Indigo-1-128

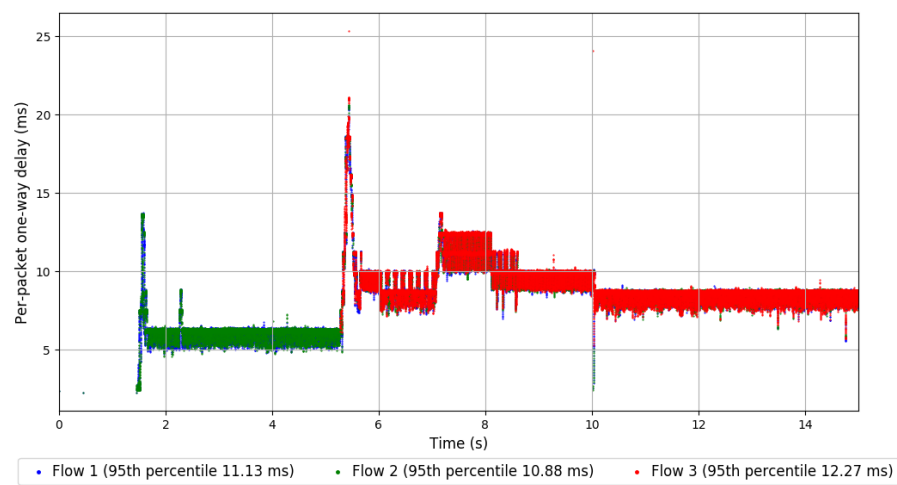
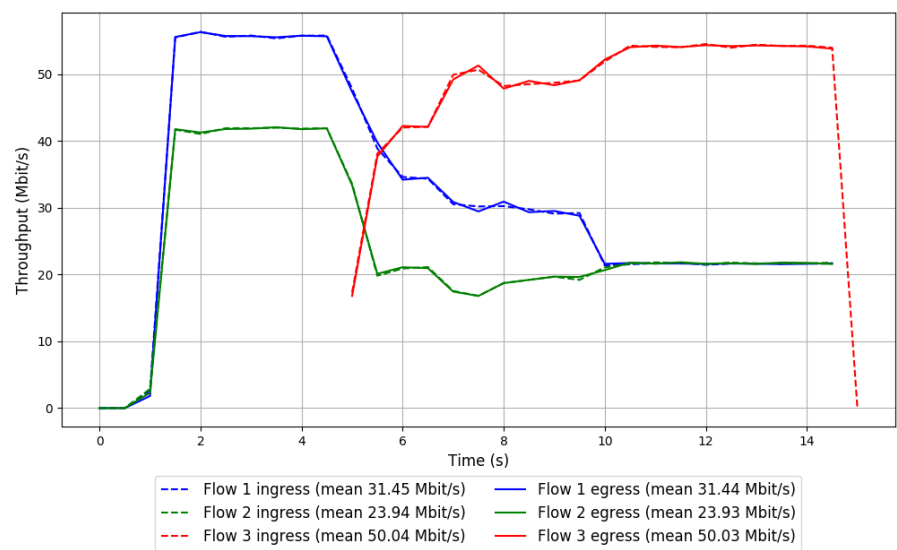
Start at: 2018-01-26 11:05:20

End at: 2018-01-26 11:05:50

Local clock offset: -0.096 ms

Remote clock offset: 0.426 ms

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

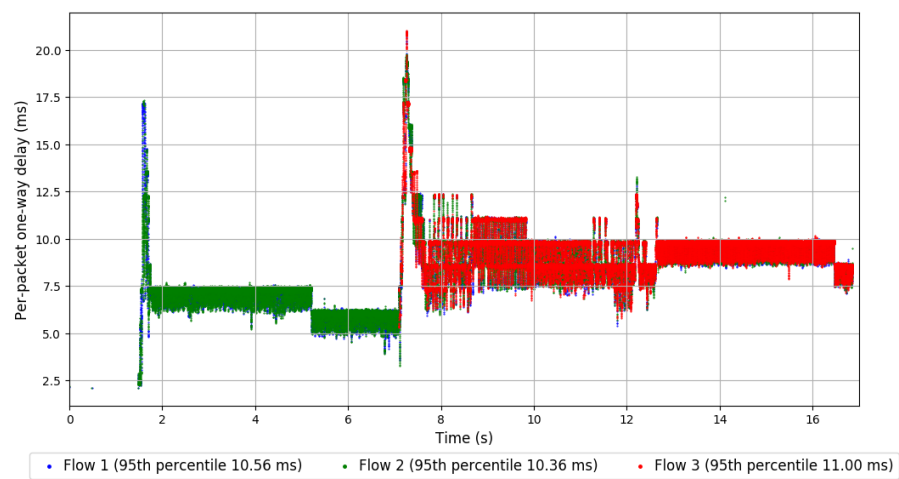
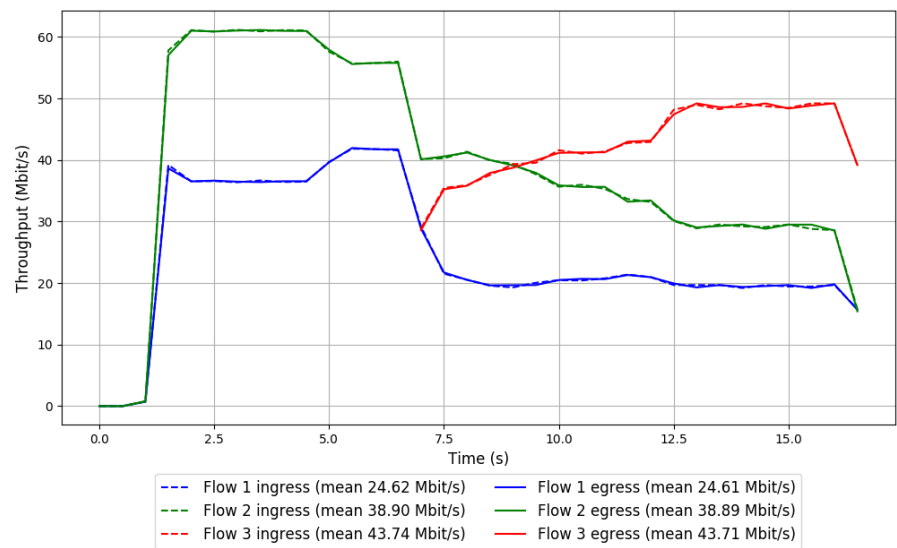
Start at: 2018-01-26 11:23:24

End at: 2018-01-26 11:23:54

Local clock offset: -0.157 ms

Remote clock offset: 0.707 ms

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

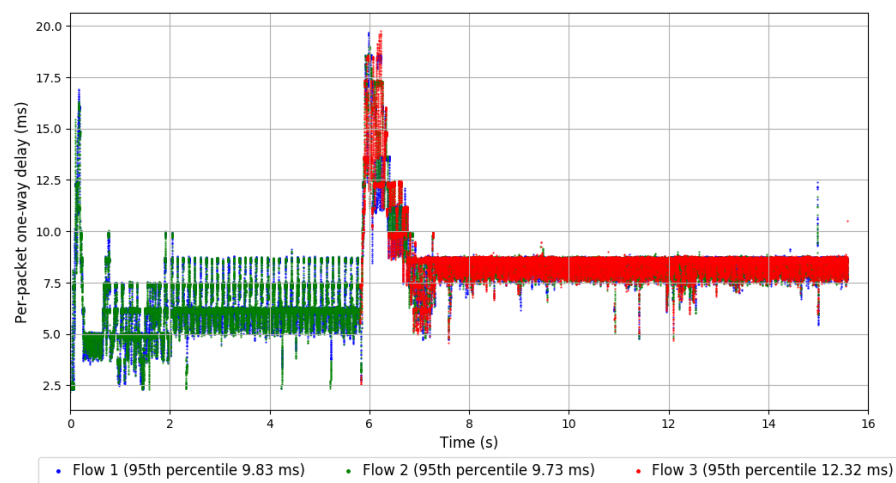
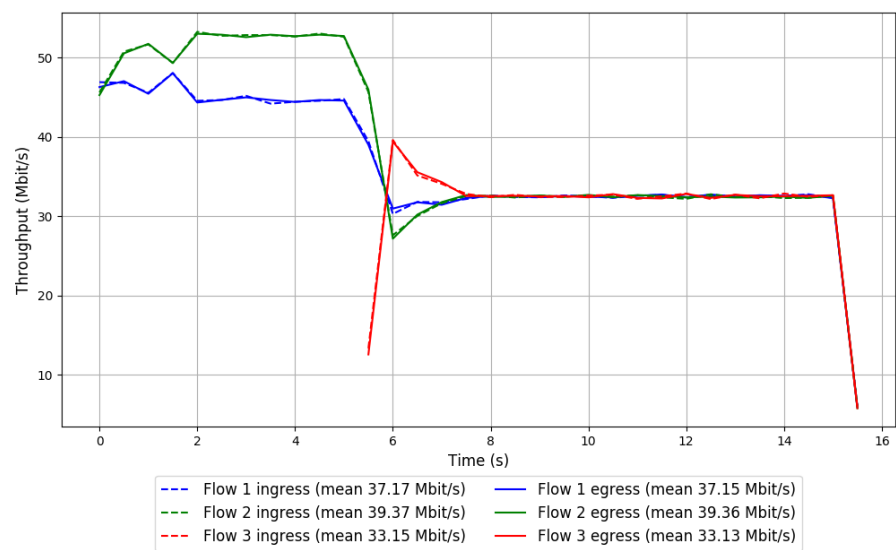
Start at: 2018-01-26 11:41:27

End at: 2018-01-26 11:41:57

Local clock offset: -0.109 ms

Remote clock offset: 0.832 ms

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

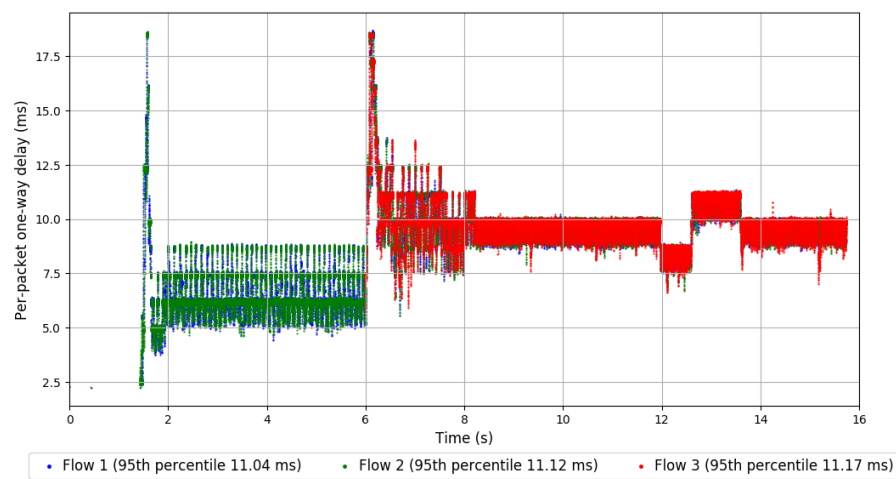
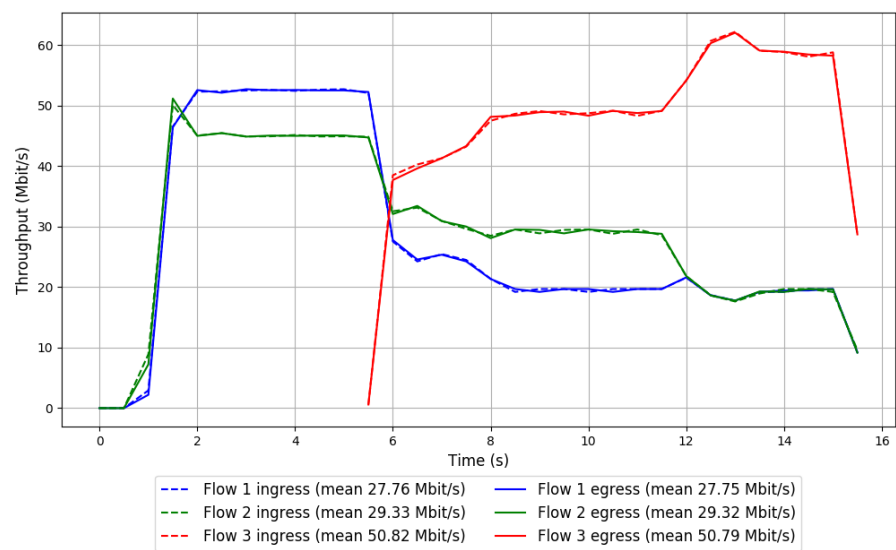
Start at: 2018-01-26 11:59:31

End at: 2018-01-26 12:00:01

Local clock offset: -0.097 ms

Remote clock offset: 0.73 ms

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

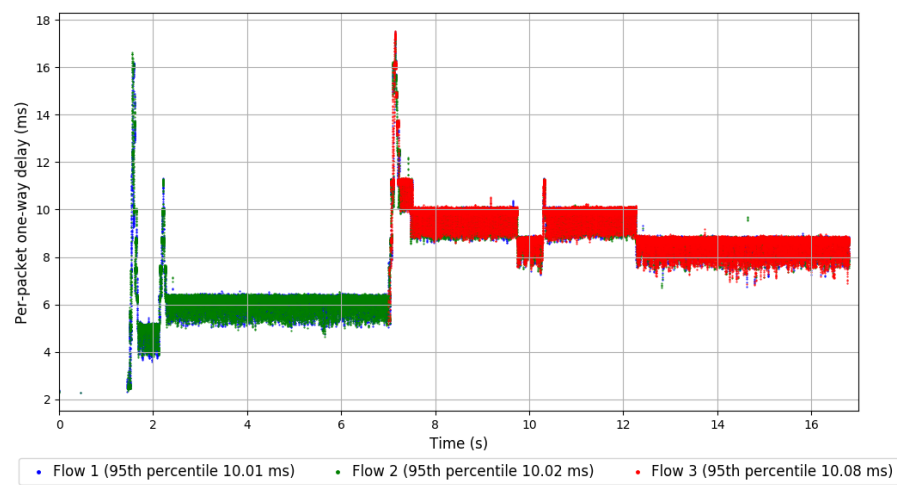
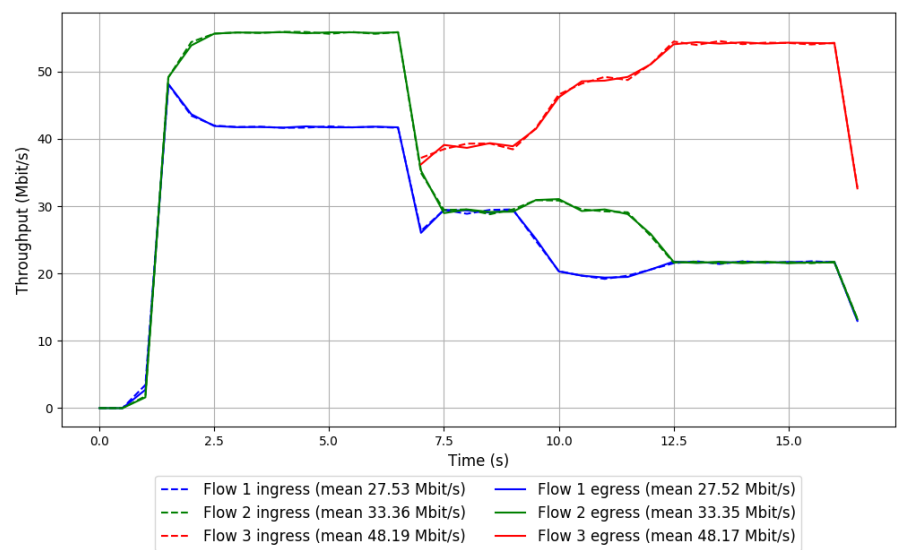
Start at: 2018-01-26 12:17:36

End at: 2018-01-26 12:18:06

Local clock offset: -0.068 ms

Remote clock offset: 0.606 ms

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

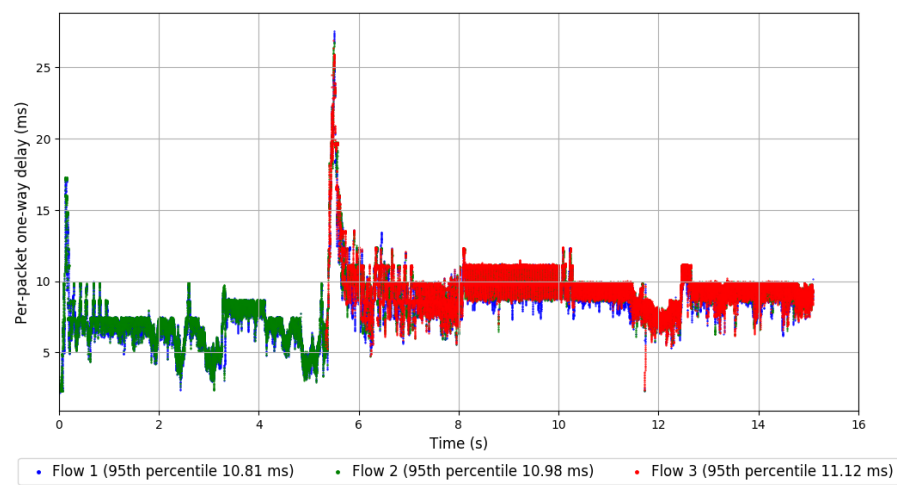
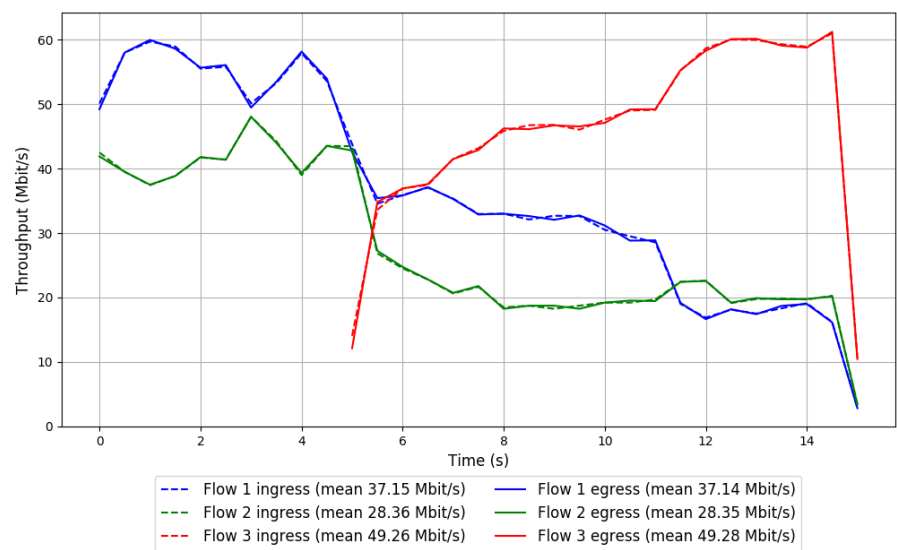
Start at: 2018-01-26 12:35:39

End at: 2018-01-26 12:36:09

Local clock offset: -0.021 ms

Remote clock offset: 0.54 ms

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

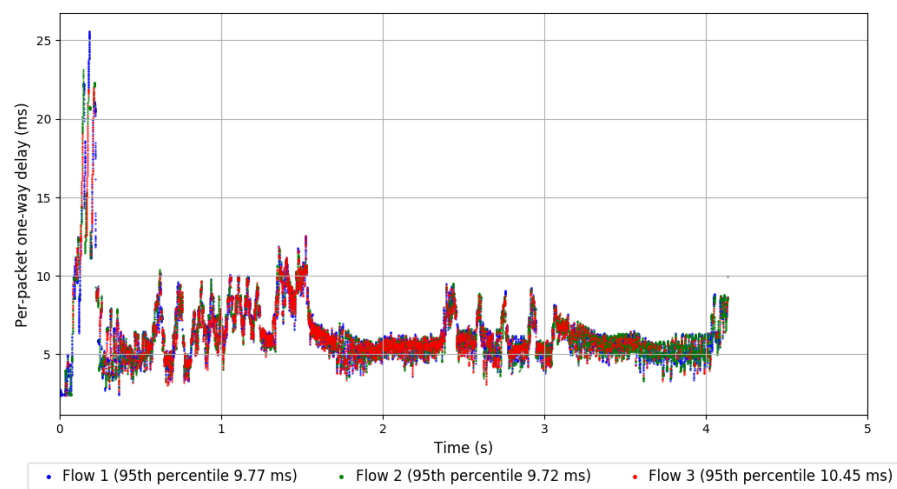
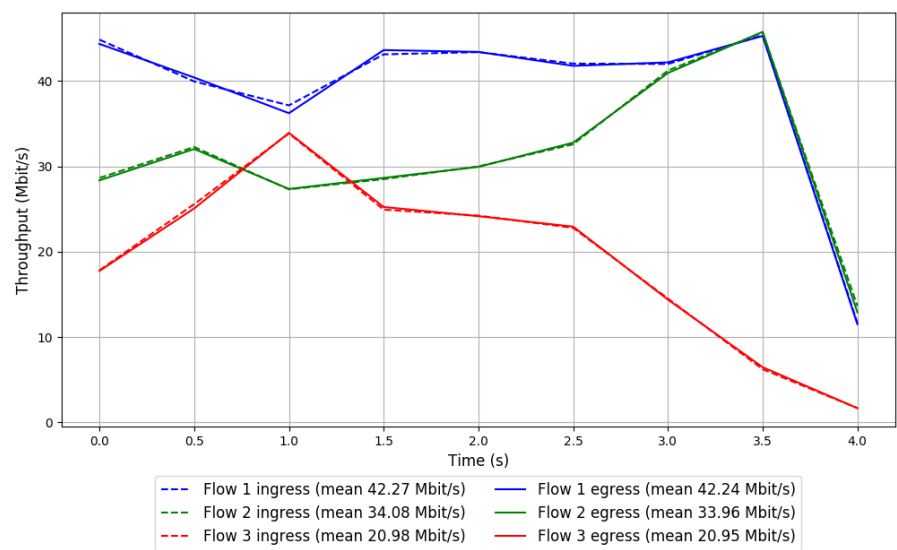
Start at: 2018-01-26 12:53:44

End at: 2018-01-26 12:54:14

Local clock offset: 0.044 ms

Remote clock offset: 0.277 ms

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

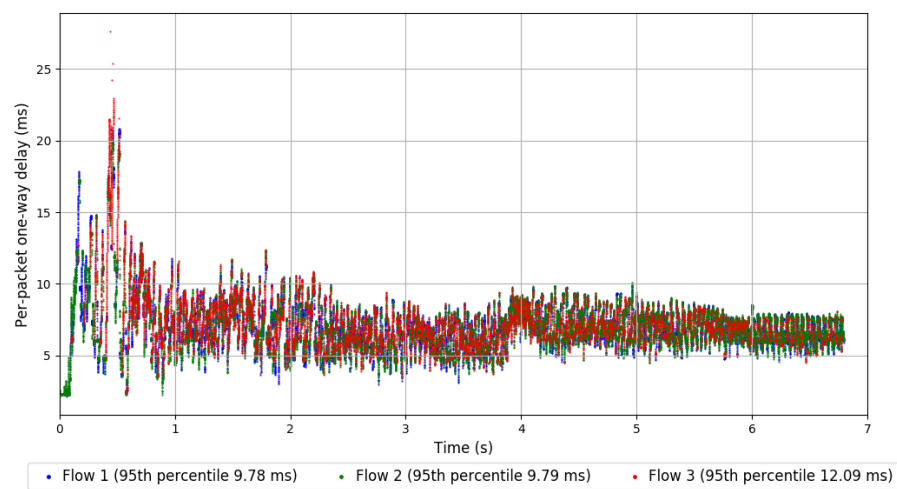
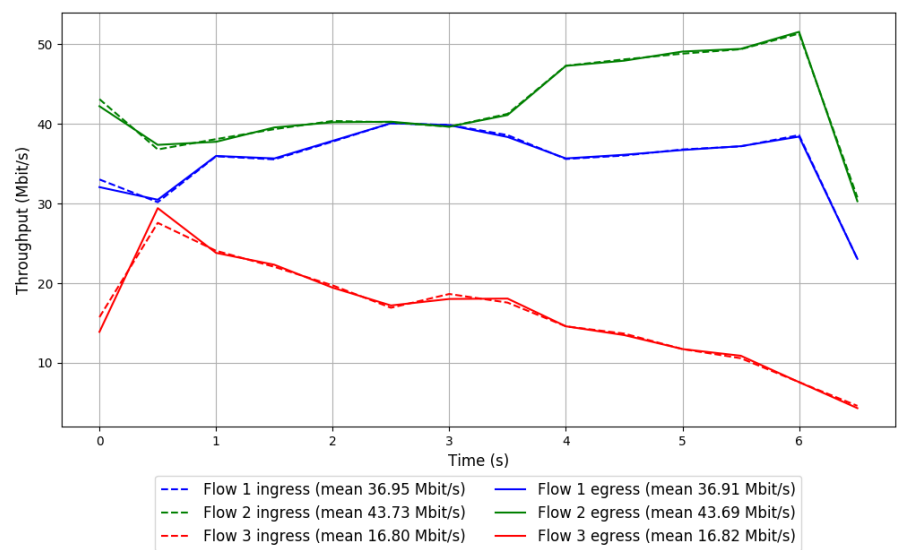
Start at: 2018-01-26 13:11:46

End at: 2018-01-26 13:12:16

Local clock offset: 0.082 ms

Remote clock offset: 0.222 ms

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 13:29:51

End at: 2018-01-26 13:30:21

Local clock offset: 0.089 ms

Remote clock offset: 0.022 ms

Run 10: Report of Indigo-1-128 — Data Link

