

## Pantheon Report

Generated at 2018-04-17 19:52:09 (UTC).

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

Repeated the test of 16 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*).

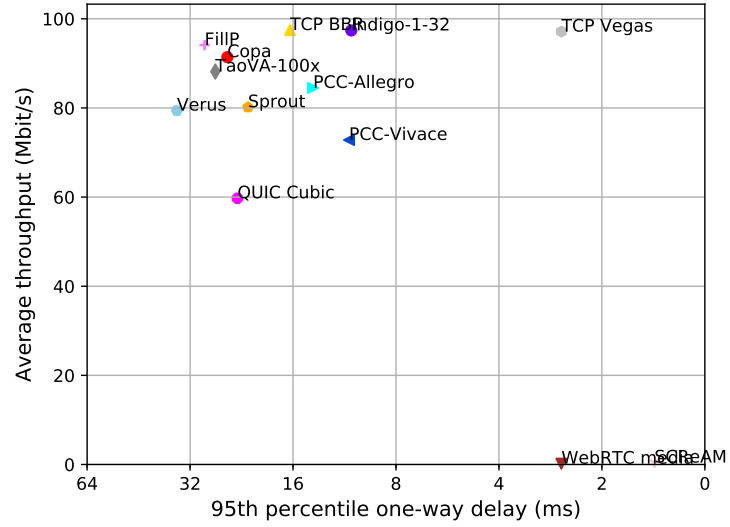
NTP offsets were measured against *gps.ntp.br* and have been applied to correct the timestamps in logs.

Git summary:

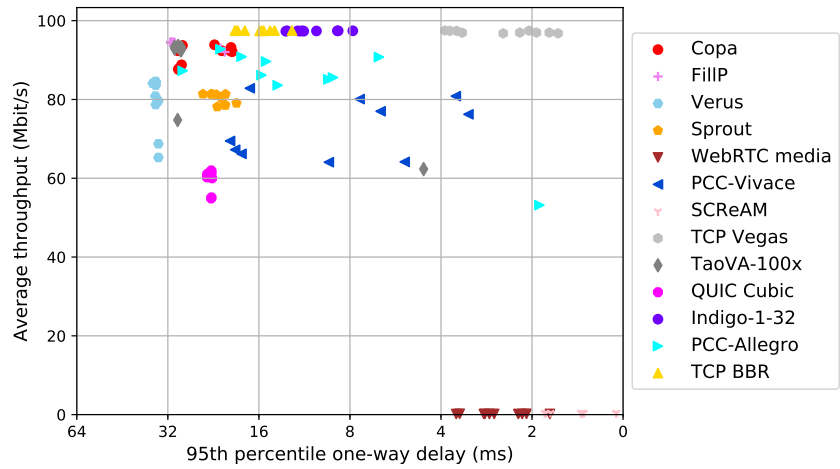
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third\_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

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]

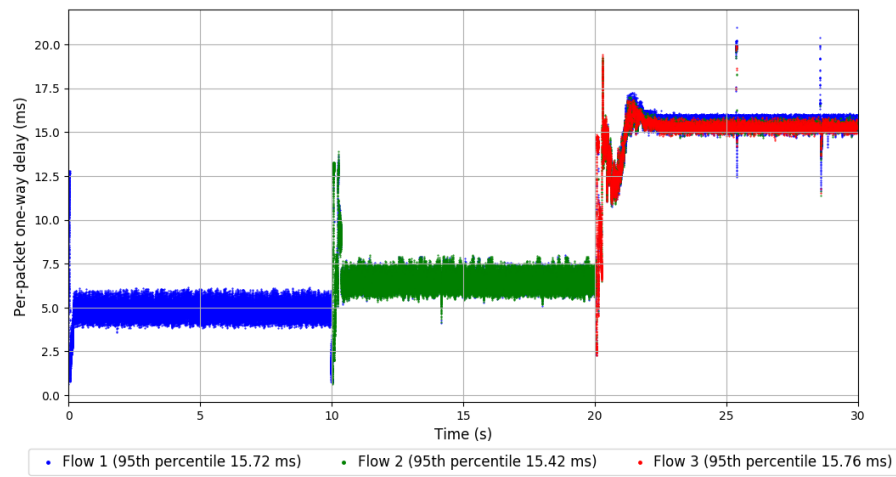
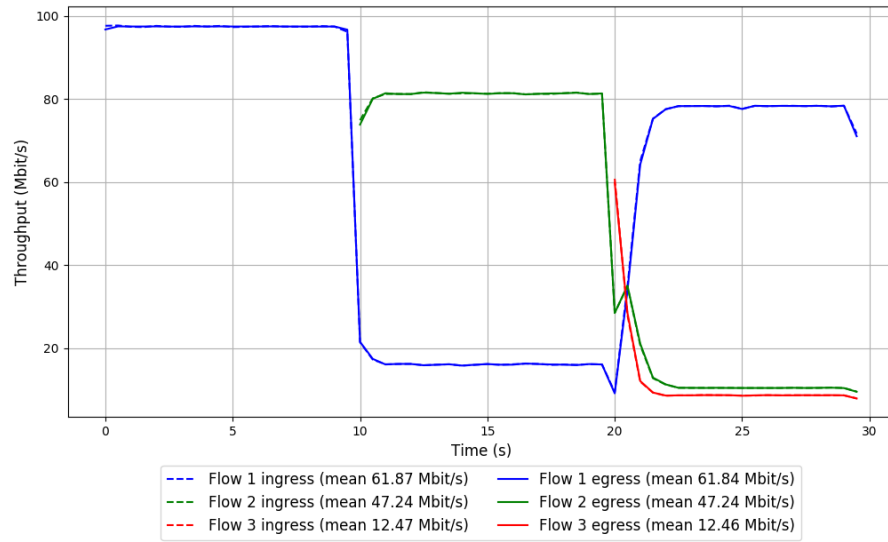


Run 1: Statistics of TCP BBR

Start at: 2018-04-17 13:07:15  
End at: 2018-04-17 13:07:45  
Local clock offset: -5.795 ms  
Remote clock offset: -6.512 ms

# Below is generated by plot.py at 2018-04-17 19:31:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.41 Mbit/s  
95th percentile per-packet one-way delay: 15.691 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 61.84 Mbit/s  
95th percentile per-packet one-way delay: 15.724 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 47.24 Mbit/s  
95th percentile per-packet one-way delay: 15.421 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 12.46 Mbit/s  
95th percentile per-packet one-way delay: 15.756 ms  
Loss rate: 0.12%

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

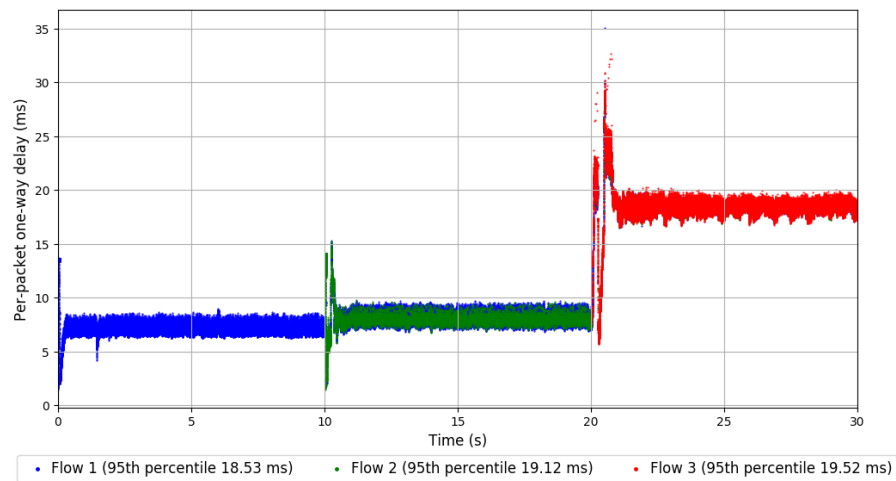
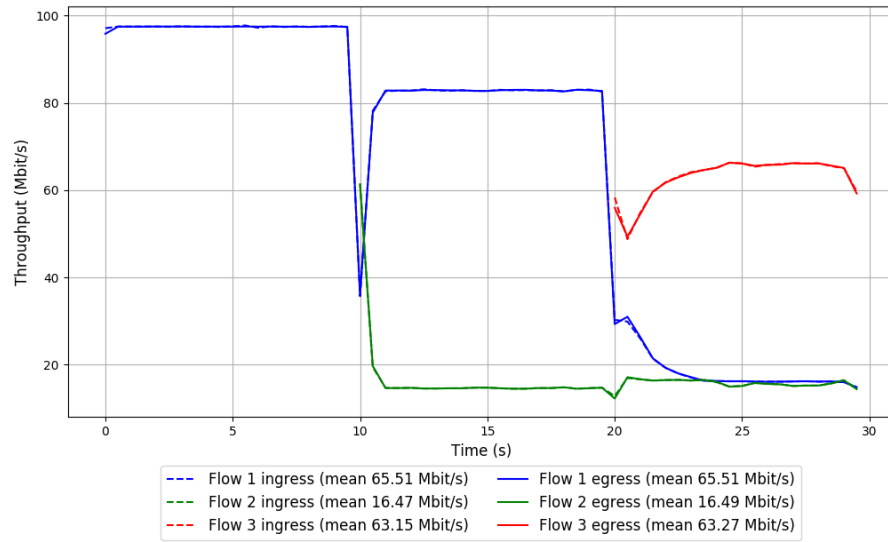


Run 2: Statistics of TCP BBR

Start at: 2018-04-17 13:26:20  
End at: 2018-04-17 13:26:50  
Local clock offset: -4.826 ms  
Remote clock offset: -6.184 ms

# Below is generated by plot.py at 2018-04-17 19:31:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 19.089 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 65.51 Mbit/s  
95th percentile per-packet one-way delay: 18.527 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 16.49 Mbit/s  
95th percentile per-packet one-way delay: 19.116 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 63.27 Mbit/s  
95th percentile per-packet one-way delay: 19.523 ms  
Loss rate: 0.22%

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

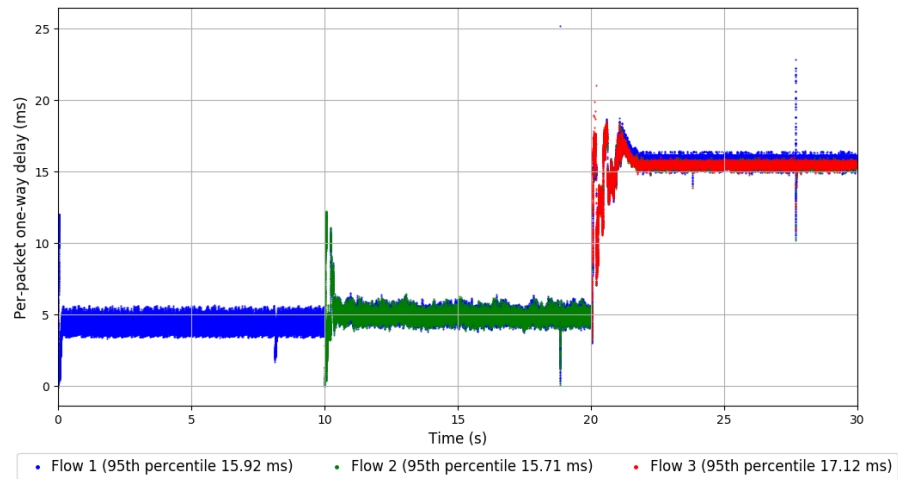
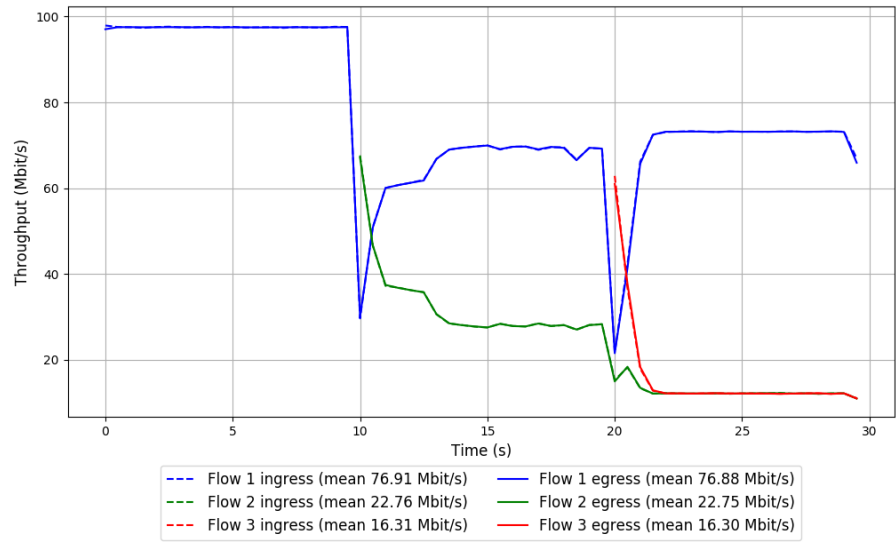


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 13:45:30  
End at: 2018-04-17 13:46:00  
Local clock offset: -6.231 ms  
Remote clock offset: -6.373 ms

# Below is generated by plot.py at 2018-04-17 19:31:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 15.918 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 76.88 Mbit/s  
95th percentile per-packet one-way delay: 15.916 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 22.75 Mbit/s  
95th percentile per-packet one-way delay: 15.708 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 16.30 Mbit/s  
95th percentile per-packet one-way delay: 17.116 ms  
Loss rate: 0.13%

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

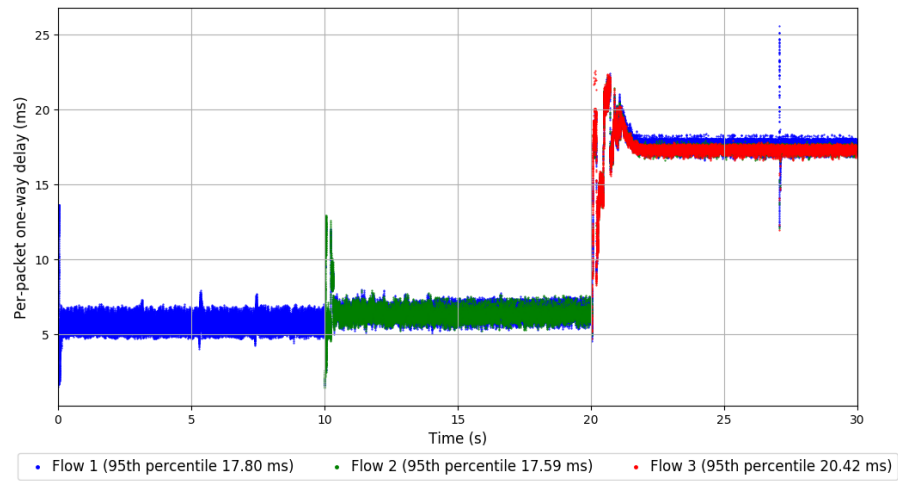
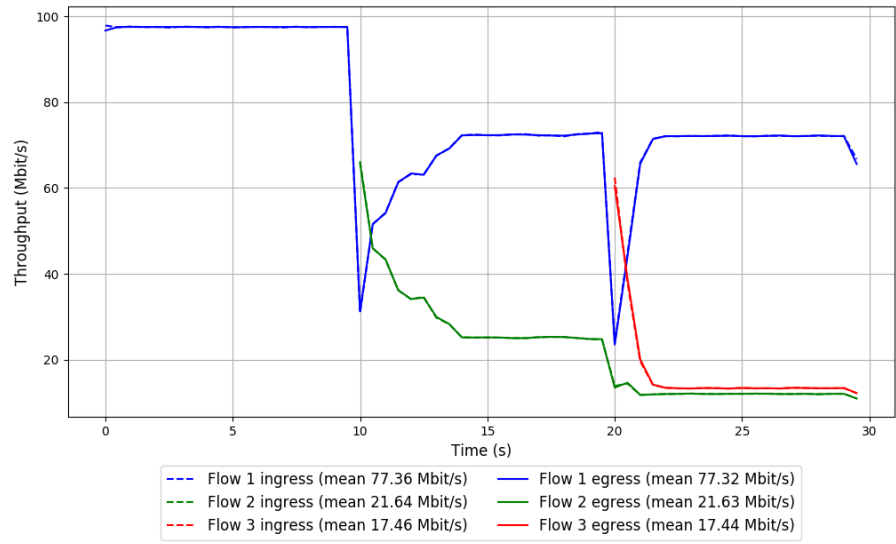


Run 4: Statistics of TCP BBR

Start at: 2018-04-17 14:04:37  
End at: 2018-04-17 14:05:07  
Local clock offset: -4.753 ms  
Remote clock offset: -6.557 ms

# Below is generated by plot.py at 2018-04-17 19:31:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 17.814 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 77.32 Mbit/s  
95th percentile per-packet one-way delay: 17.799 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 21.63 Mbit/s  
95th percentile per-packet one-way delay: 17.593 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 17.44 Mbit/s  
95th percentile per-packet one-way delay: 20.416 ms  
Loss rate: 0.13%

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



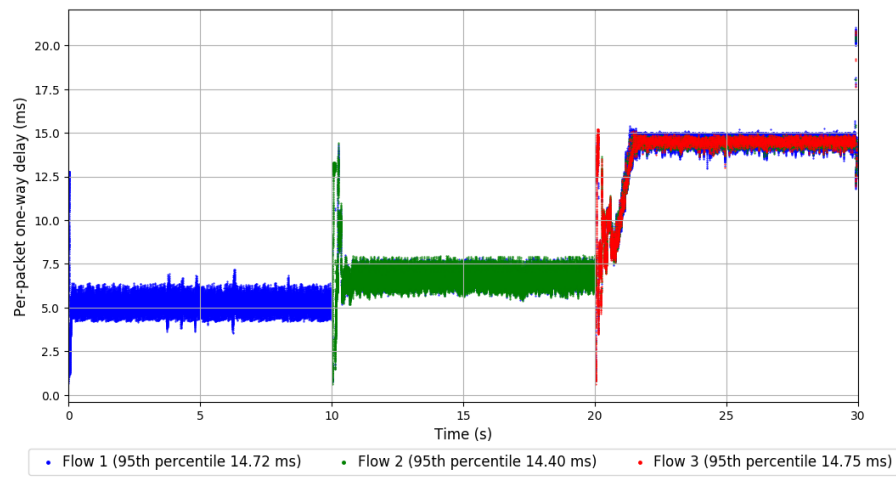
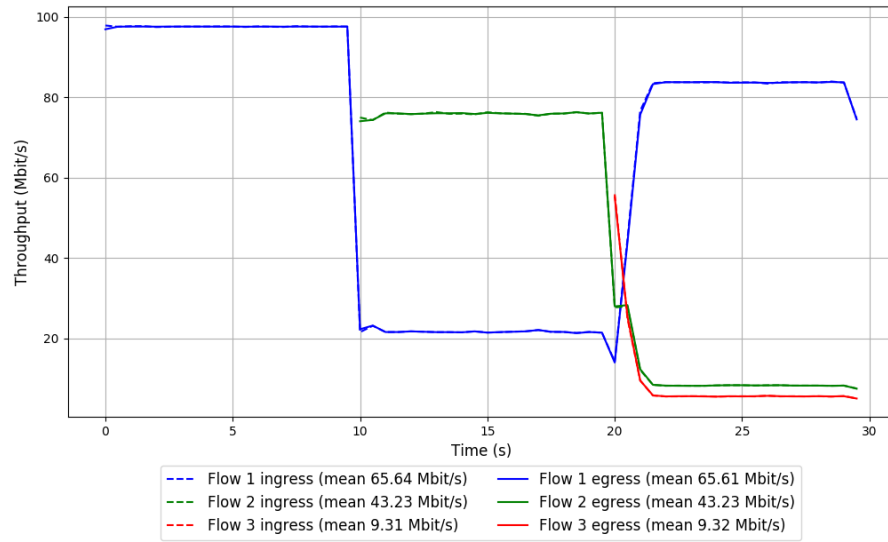


Run 5: Statistics of TCP BBR

Start at: 2018-04-17 14:23:46  
End at: 2018-04-17 14:24:16  
Local clock offset: -5.685 ms  
Remote clock offset: -6.954 ms

# Below is generated by plot.py at 2018-04-17 19:31:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 14.700 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 65.61 Mbit/s  
95th percentile per-packet one-way delay: 14.724 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 43.23 Mbit/s  
95th percentile per-packet one-way delay: 14.399 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 9.32 Mbit/s  
95th percentile per-packet one-way delay: 14.752 ms  
Loss rate: 0.12%

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

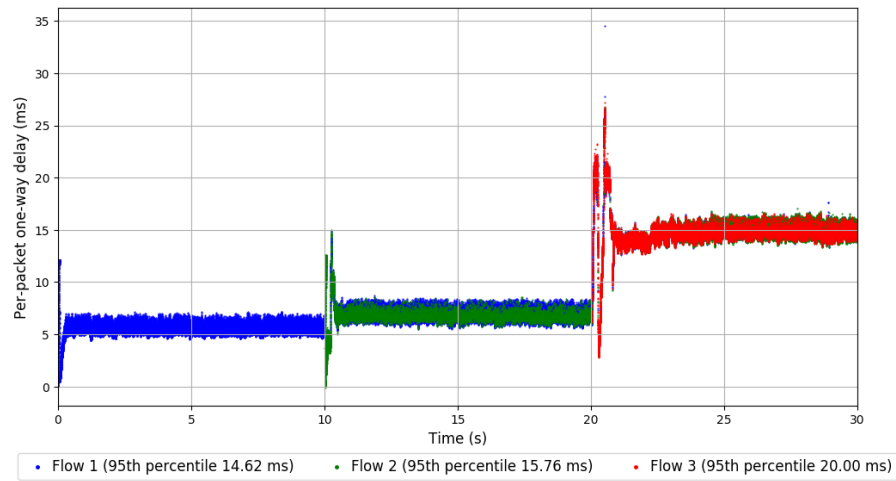
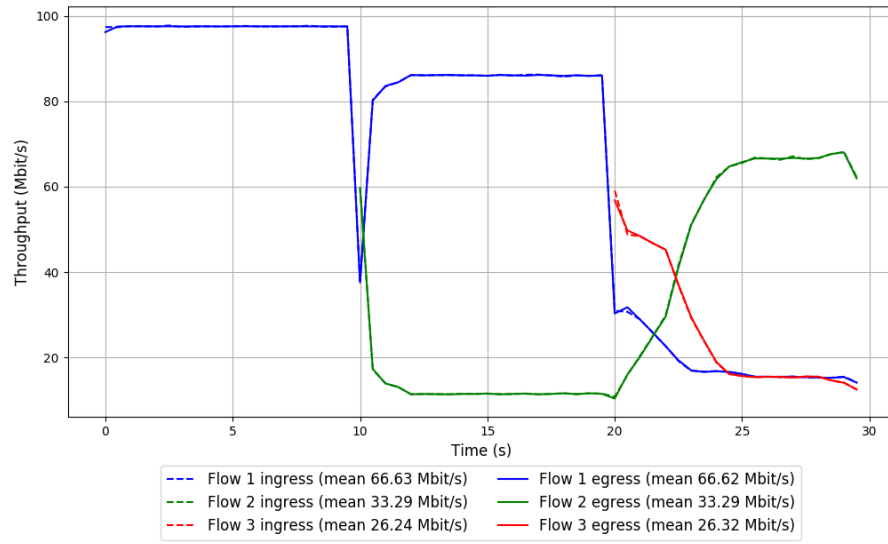


Run 6: Statistics of TCP BBR

Start at: 2018-04-17 14:42:55  
End at: 2018-04-17 14:43:25  
Local clock offset: -6.62 ms  
Remote clock offset: -6.795 ms

# Below is generated by plot.py at 2018-04-17 19:31:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 15.447 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 66.62 Mbit/s  
95th percentile per-packet one-way delay: 14.620 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 33.29 Mbit/s  
95th percentile per-packet one-way delay: 15.764 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 26.32 Mbit/s  
95th percentile per-packet one-way delay: 20.001 ms  
Loss rate: 0.10%

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

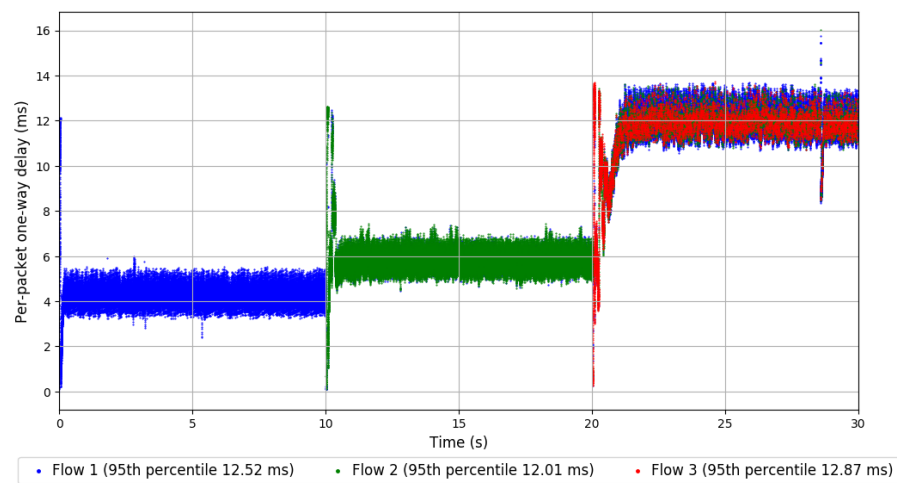
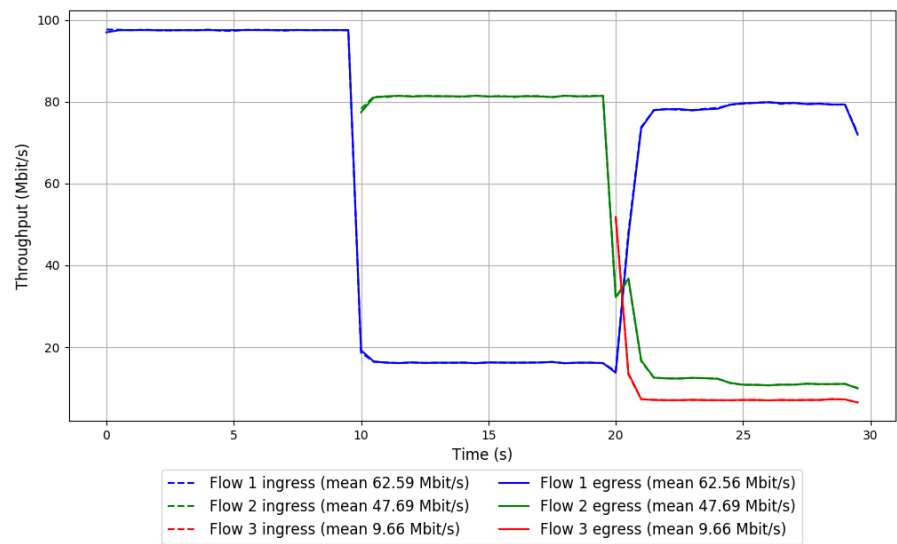


Run 7: Statistics of TCP BBR

Start at: 2018-04-17 15:02:02  
End at: 2018-04-17 15:02:32  
Local clock offset: -6.655 ms  
Remote clock offset: -6.384 ms

# Below is generated by plot.py at 2018-04-17 19:31:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 12.433 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 62.56 Mbit/s  
95th percentile per-packet one-way delay: 12.515 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 47.69 Mbit/s  
95th percentile per-packet one-way delay: 12.006 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 9.66 Mbit/s  
95th percentile per-packet one-way delay: 12.870 ms  
Loss rate: 0.10%

Run 7: Report of TCP BBR — Data Link

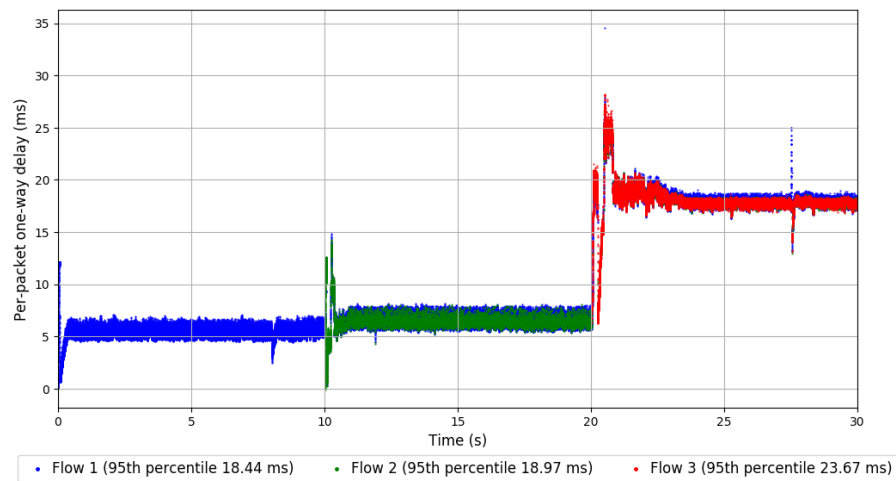
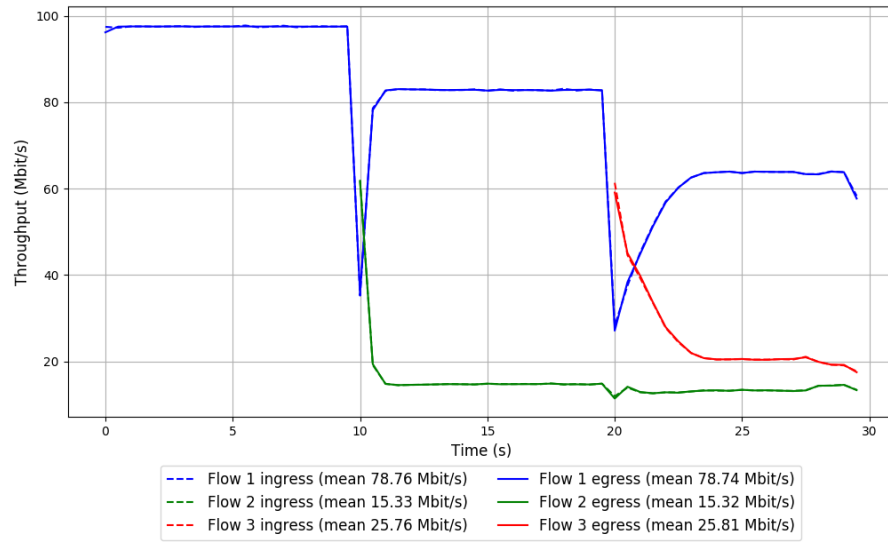


Run 8: Statistics of TCP BBR

Start at: 2018-04-17 15:21:11  
End at: 2018-04-17 15:21:41  
Local clock offset: -6.856 ms  
Remote clock offset: -6.289 ms

# Below is generated by plot.py at 2018-04-17 19:31:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.49 Mbit/s  
95th percentile per-packet one-way delay: 18.797 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 78.74 Mbit/s  
95th percentile per-packet one-way delay: 18.440 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 15.32 Mbit/s  
95th percentile per-packet one-way delay: 18.967 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 25.81 Mbit/s  
95th percentile per-packet one-way delay: 23.667 ms  
Loss rate: 0.15%

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



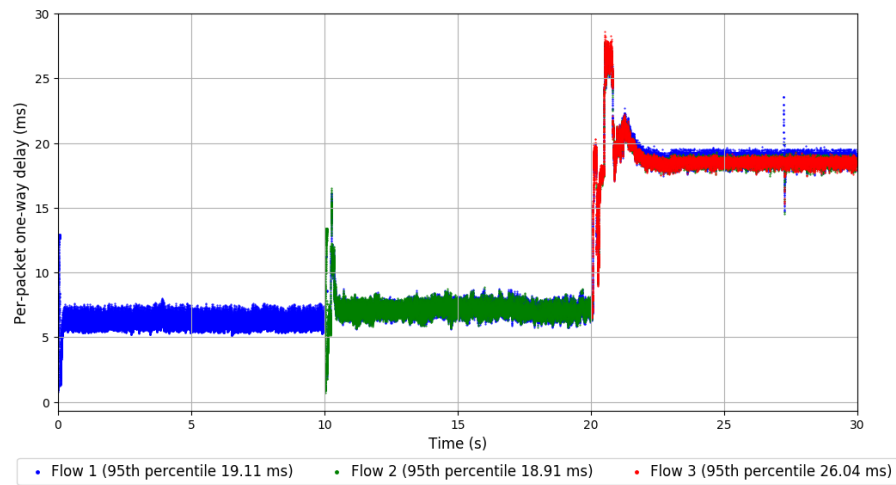
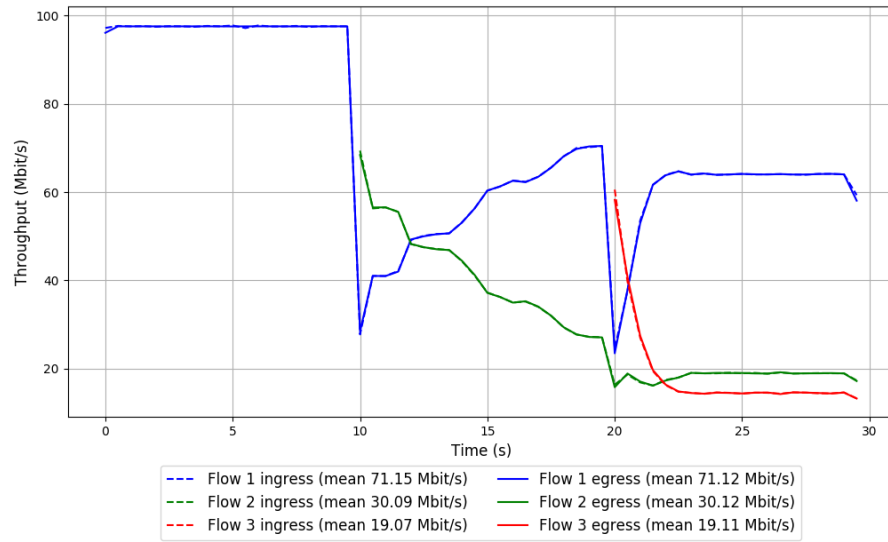


Run 9: Statistics of TCP BBR

Start at: 2018-04-17 15:40:18  
End at: 2018-04-17 15:40:48  
Local clock offset: -6.181 ms  
Remote clock offset: -6.728 ms

# Below is generated by plot.py at 2018-04-17 19:33:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 19.206 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 71.12 Mbit/s  
95th percentile per-packet one-way delay: 19.105 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 30.12 Mbit/s  
95th percentile per-packet one-way delay: 18.911 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 19.11 Mbit/s  
95th percentile per-packet one-way delay: 26.035 ms  
Loss rate: 0.16%

# Run 9: Report of TCP BBR — Data Link

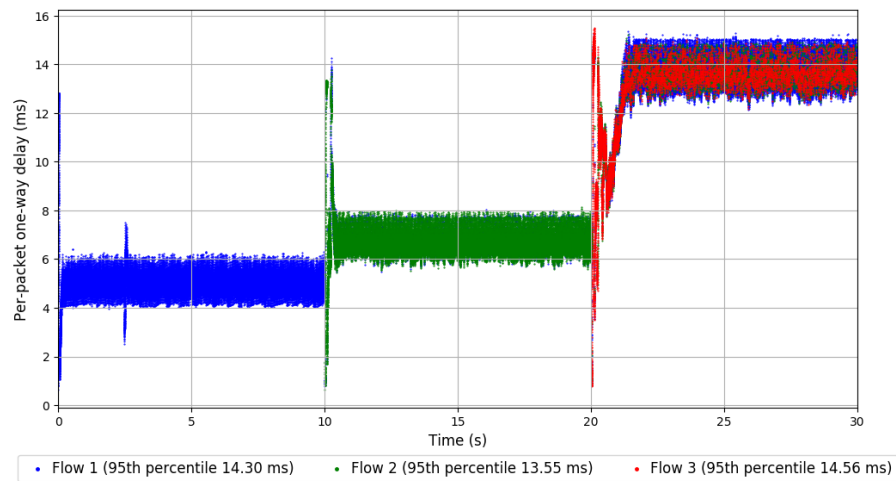
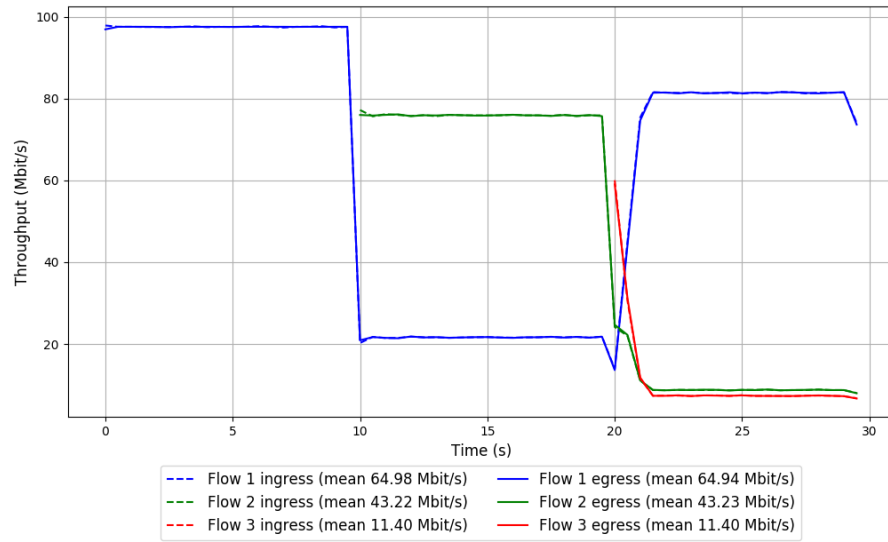


Run 10: Statistics of TCP BBR

Start at: 2018-04-17 15:59:26  
End at: 2018-04-17 15:59:56  
Local clock offset: -6.342 ms  
Remote clock offset: -6.989 ms

# Below is generated by plot.py at 2018-04-17 19:33:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 14.204 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 64.94 Mbit/s  
95th percentile per-packet one-way delay: 14.298 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 43.23 Mbit/s  
95th percentile per-packet one-way delay: 13.553 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 11.40 Mbit/s  
95th percentile per-packet one-way delay: 14.562 ms  
Loss rate: 0.12%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 13:11:47

End at: 2018-04-17 13:12:17

Local clock offset: -6.468 ms

Remote clock offset: -6.439 ms

Run 1: Report of TCP Cubic — Data Link

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Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 13:30:52

End at: 2018-04-17 13:31:22

Local clock offset: -5.594 ms

Remote clock offset: -6.055 ms

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

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Figure is missing



Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 13:50:02

End at: 2018-04-17 13:50:32

Local clock offset: -5.334 ms

Remote clock offset: -6.432 ms

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

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Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 14:09:09

End at: 2018-04-17 14:09:39

Local clock offset: -5.627 ms

Remote clock offset: -6.554 ms

Run 4: Report of TCP Cubic — Data Link

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Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 14:28:18

End at: 2018-04-17 14:28:48

Local clock offset: -5.693 ms

Remote clock offset: -6.934 ms

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

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Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 14:47:27

End at: 2018-04-17 14:47:57

Local clock offset: -5.857 ms

Remote clock offset: -6.695 ms

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

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Figure is missing



Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 15:06:34

End at: 2018-04-17 15:07:04

Local clock offset: -5.982 ms

Remote clock offset: -6.413 ms

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

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Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 15:25:43

End at: 2018-04-17 15:26:13

Local clock offset: -6.953 ms

Remote clock offset: -6.495 ms

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

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Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 15:44:50

End at: 2018-04-17 15:45:20

Local clock offset: -6.993 ms

Remote clock offset: -6.771 ms

Run 9: Report of TCP Cubic — Data Link

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Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 16:03:58

End at: 2018-04-17 16:04:28

Local clock offset: -7.109 ms

Remote clock offset: -7.105 ms

#### Run 10: Report of TCP Cubic — Data Link

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Figure is missing



Run 1: Statistics of LEDBAT

Start at: 2018-04-17 13:17:17

End at: 2018-04-17 13:17:47

Local clock offset: -5.716 ms

Remote clock offset: -6.335 ms

Run 1: Report of LEDBAT — Data Link

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Run 2: Statistics of LEDBAT

Start at: 2018-04-17 13:36:24

End at: 2018-04-17 13:36:54

Local clock offset: -5.458 ms

Remote clock offset: -5.96 ms

Run 2: Report of LEDBAT — Data Link

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Figure is missing

Run 3: Statistics of LEDBAT

Start at: 2018-04-17 13:55:32

End at: 2018-04-17 13:56:02

Local clock offset: -6.173 ms

Remote clock offset: -6.503 ms

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

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Run 4: Statistics of LEDBAT

Start at: 2018-04-17 14:14:40

End at: 2018-04-17 14:15:10

Local clock offset: -5.617 ms

Remote clock offset: -6.809 ms

Run 4: Report of LEDBAT — Data Link

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Run 5: Statistics of LEDBAT

Start at: 2018-04-17 14:33:49

End at: 2018-04-17 14:34:19

Local clock offset: -6.466 ms

Remote clock offset: -6.947 ms

Run 5: Report of LEDBAT — Data Link

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Figure is missing

Run 6: Statistics of LEDBAT

Start at: 2018-04-17 14:52:58

End at: 2018-04-17 14:53:28

Local clock offset: -5.894 ms

Remote clock offset: -6.549 ms

Run 6: Report of LEDBAT — Data Link

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Run 7: Statistics of LEDBAT

Start at: 2018-04-17 15:12:04

End at: 2018-04-17 15:12:34

Local clock offset: -6.089 ms

Remote clock offset: -6.356 ms

Run 7: Report of LEDBAT — Data Link

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Run 8: Statistics of LEDBAT

Start at: 2018-04-17 15:31:13

End at: 2018-04-17 15:31:43

Local clock offset: -5.419 ms

Remote clock offset: -6.565 ms

Run 8: Report of LEDBAT — Data Link

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Run 9: Statistics of LEDBAT

Start at: 2018-04-17 15:50:21

End at: 2018-04-17 15:50:51

Local clock offset: -6.202 ms

Remote clock offset: -6.904 ms

Run 9: Report of LEDBAT — Data Link

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Figure is missing

Run 10: Statistics of LEDBAT

Start at: 2018-04-17 16:09:27

End at: 2018-04-17 16:09:57

Local clock offset: -5.562 ms

Remote clock offset: -7.078 ms

Run 10: Report of LEDBAT — Data Link

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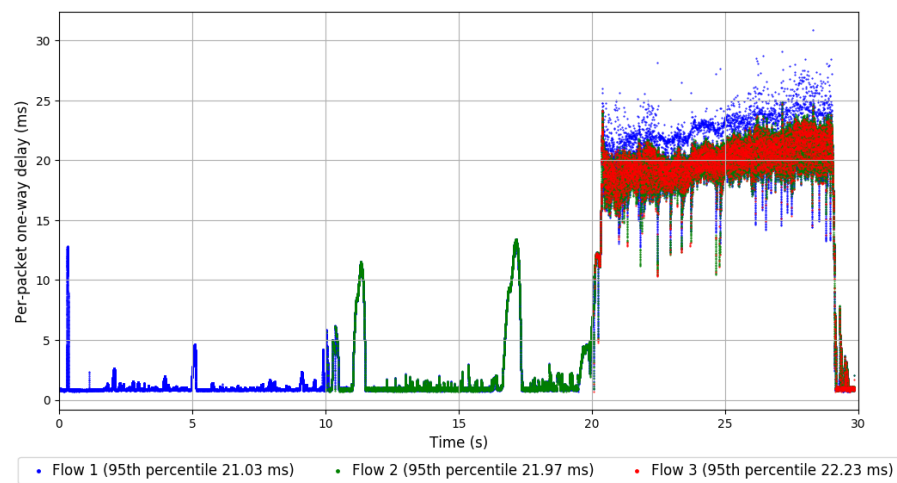
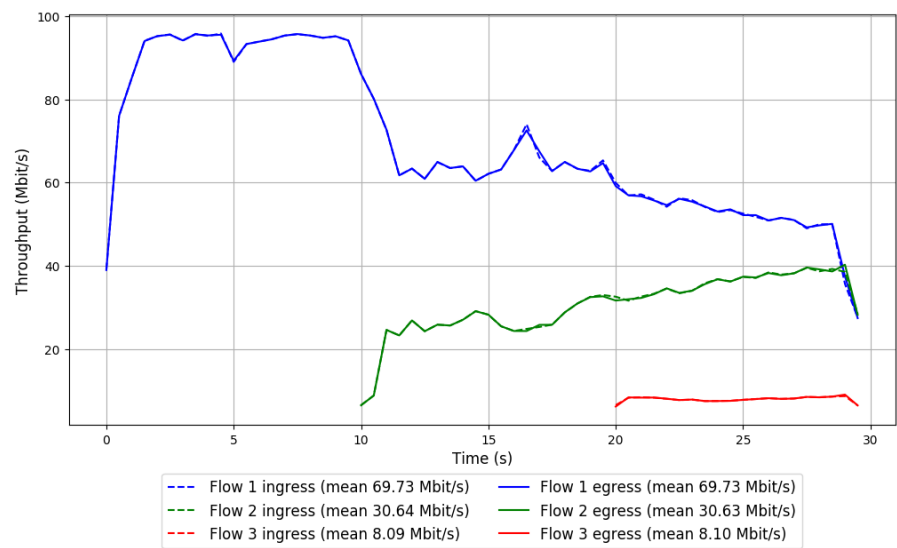
Figure is missing

Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 13:19:34  
End at: 2018-04-17 13:20:04  
Local clock offset: -5.695 ms  
Remote clock offset: -6.305 ms

# Below is generated by plot.py at 2018-04-17 19:33:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.76 Mbit/s  
95th percentile per-packet one-way delay: 21.440 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 69.73 Mbit/s  
95th percentile per-packet one-way delay: 21.032 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 30.63 Mbit/s  
95th percentile per-packet one-way delay: 21.970 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 8.10 Mbit/s  
95th percentile per-packet one-way delay: 22.226 ms  
Loss rate: 0.02%

Run 1: Report of PCC-Allegro — Data Link

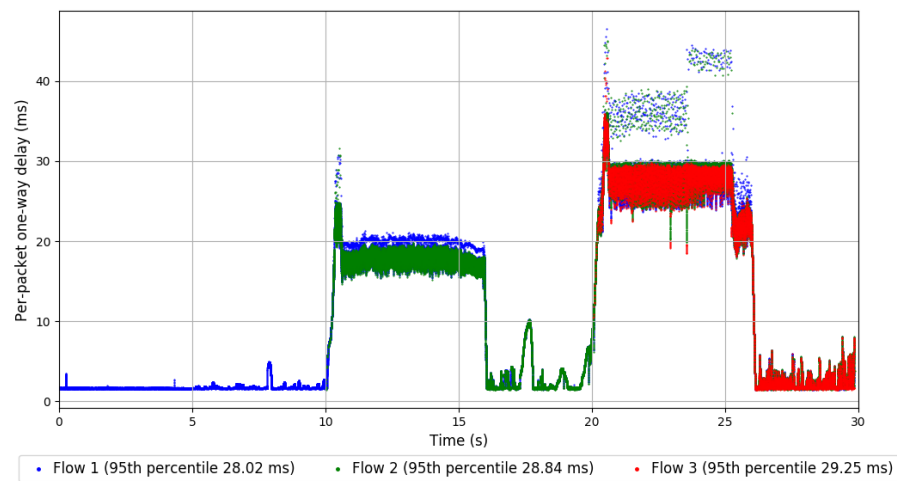
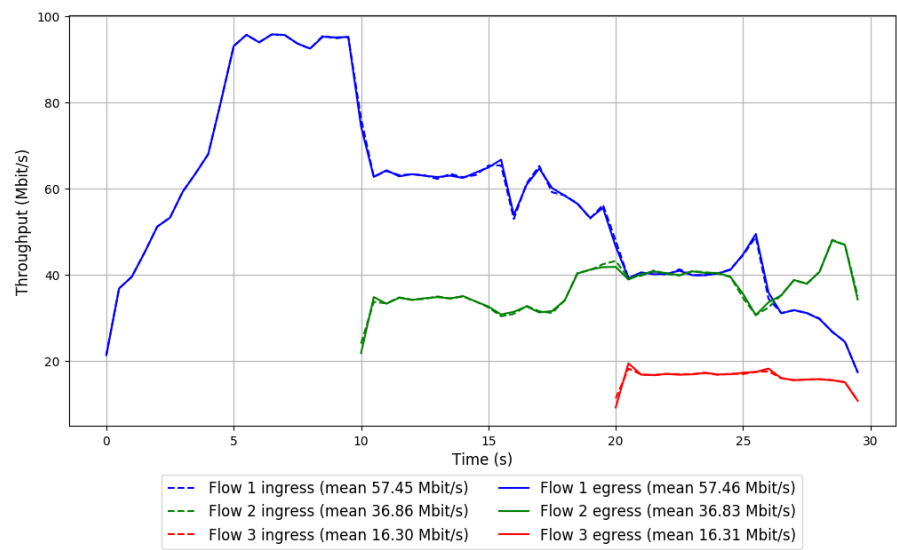


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 13:38:43  
End at: 2018-04-17 13:39:13  
Local clock offset: -4.685 ms  
Remote clock offset: -6.109 ms

# Below is generated by plot.py at 2018-04-17 19:33:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.29 Mbit/s  
95th percentile per-packet one-way delay: 28.582 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 57.46 Mbit/s  
95th percentile per-packet one-way delay: 28.015 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.83 Mbit/s  
95th percentile per-packet one-way delay: 28.844 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 16.31 Mbit/s  
95th percentile per-packet one-way delay: 29.245 ms  
Loss rate: 0.04%

Run 2: Report of PCC-Allegro — Data Link



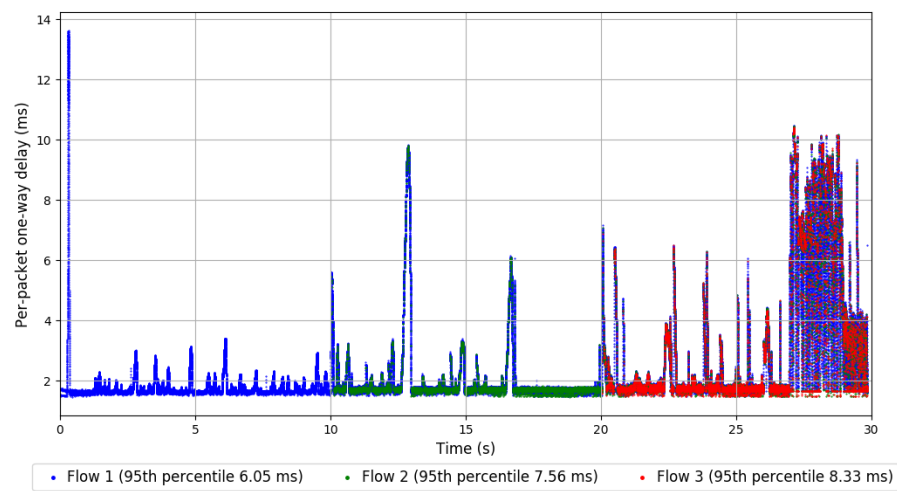
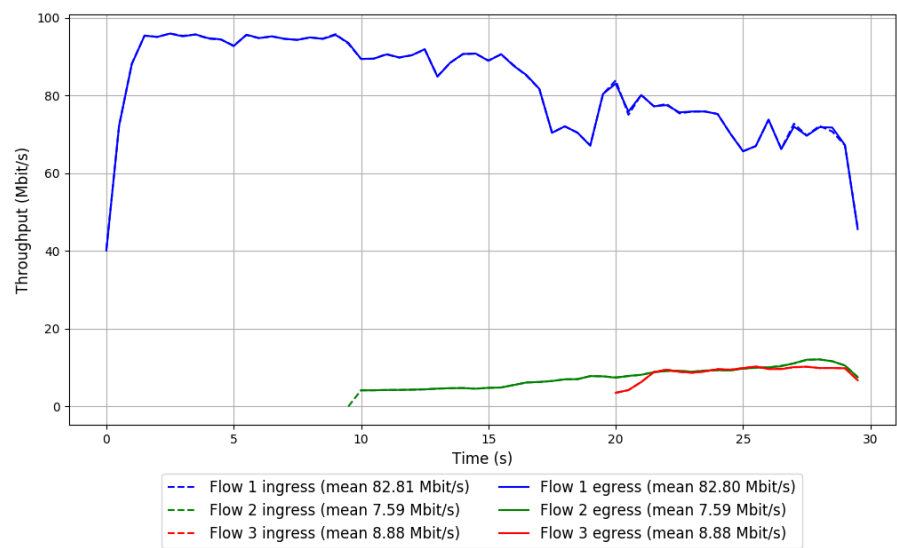


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 13:57:51  
End at: 2018-04-17 13:58:21  
Local clock offset: -4.627 ms  
Remote clock offset: -6.568 ms

# Below is generated by plot.py at 2018-04-17 19:33:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 6.414 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 82.80 Mbit/s  
95th percentile per-packet one-way delay: 6.049 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 7.59 Mbit/s  
95th percentile per-packet one-way delay: 7.556 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 8.88 Mbit/s  
95th percentile per-packet one-way delay: 8.331 ms  
Loss rate: 0.05%

Run 3: Report of PCC-Allegro — Data Link

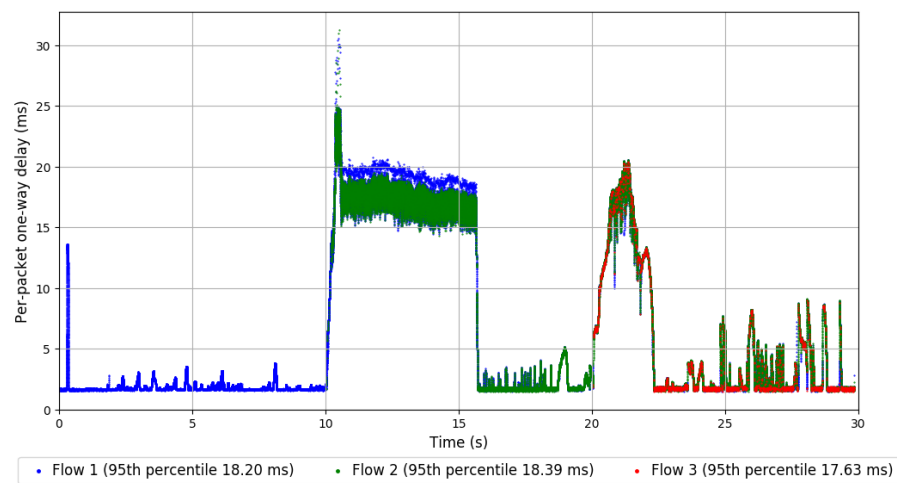
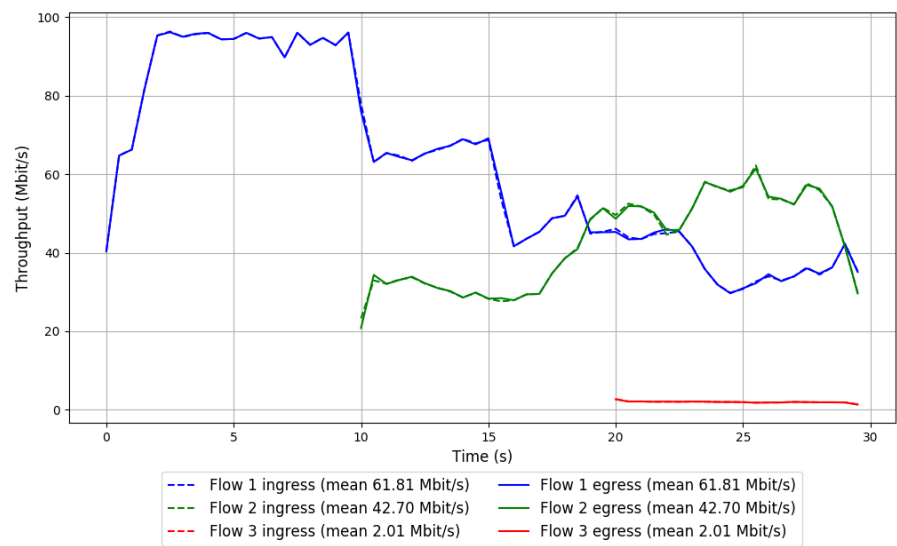


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 14:16:59  
End at: 2018-04-17 14:17:29  
Local clock offset: -4.835 ms  
Remote clock offset: -6.916 ms

# Below is generated by plot.py at 2018-04-17 19:33:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.85 Mbit/s  
95th percentile per-packet one-way delay: 18.255 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 61.81 Mbit/s  
95th percentile per-packet one-way delay: 18.198 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 42.70 Mbit/s  
95th percentile per-packet one-way delay: 18.386 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 17.627 ms  
Loss rate: 0.06%

Run 4: Report of PCC-Allegro — Data Link

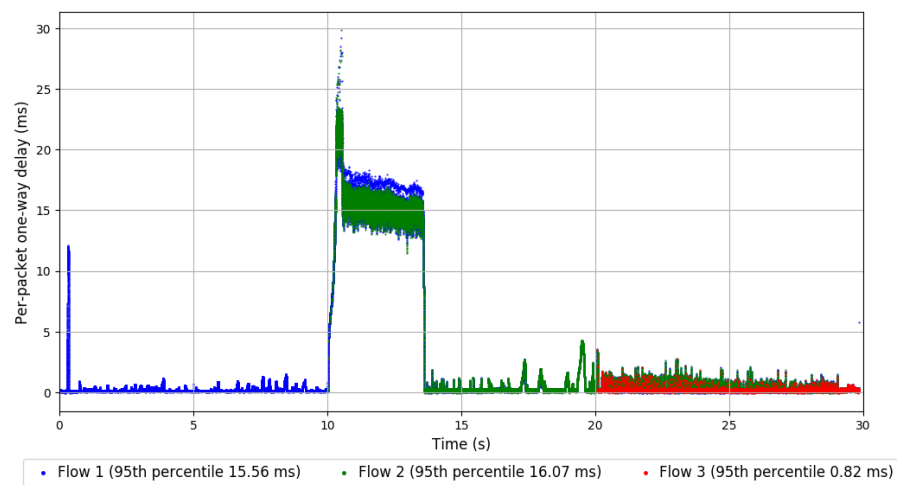
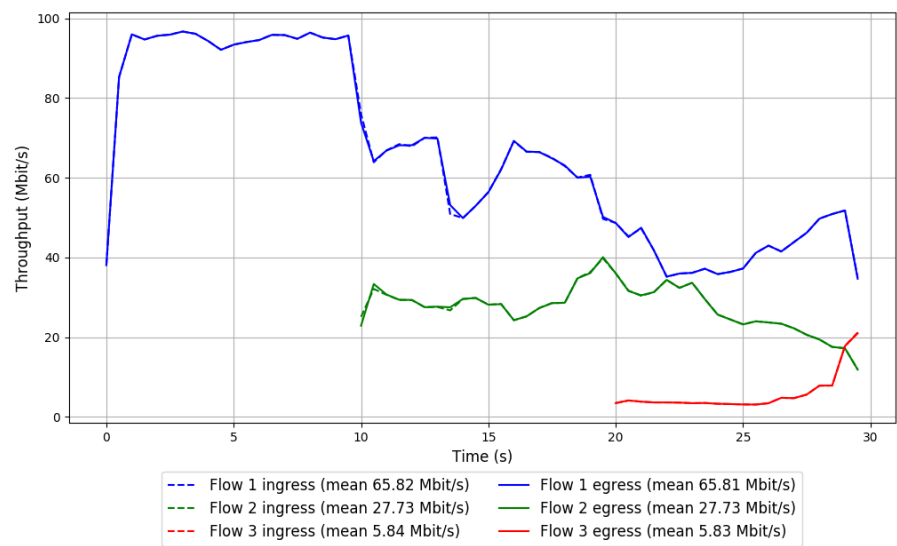


Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 14:36:08  
End at: 2018-04-17 14:36:38  
Local clock offset: -6.48 ms  
Remote clock offset: -6.845 ms

# Below is generated by plot.py at 2018-04-17 19:33:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.16 Mbit/s  
95th percentile per-packet one-way delay: 15.686 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 65.81 Mbit/s  
95th percentile per-packet one-way delay: 15.563 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 27.73 Mbit/s  
95th percentile per-packet one-way delay: 16.071 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 5.83 Mbit/s  
95th percentile per-packet one-way delay: 0.819 ms  
Loss rate: 0.19%

Run 5: Report of PCC-Allegro — Data Link

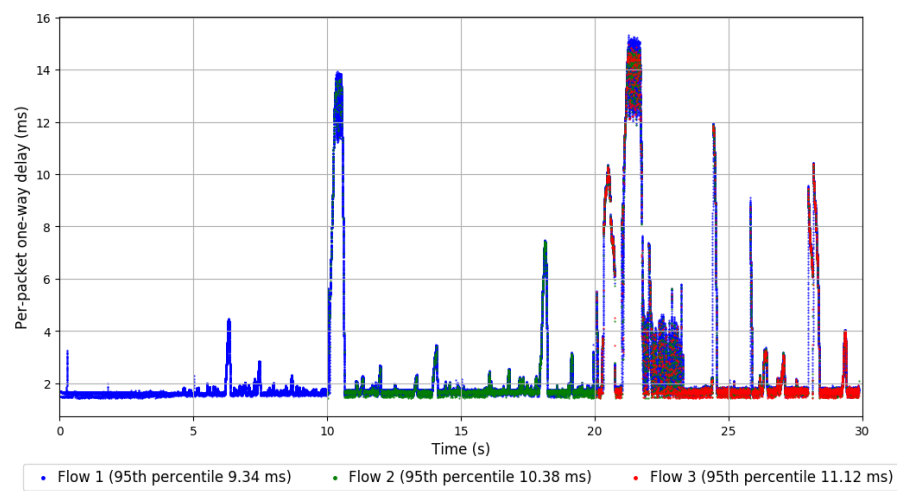
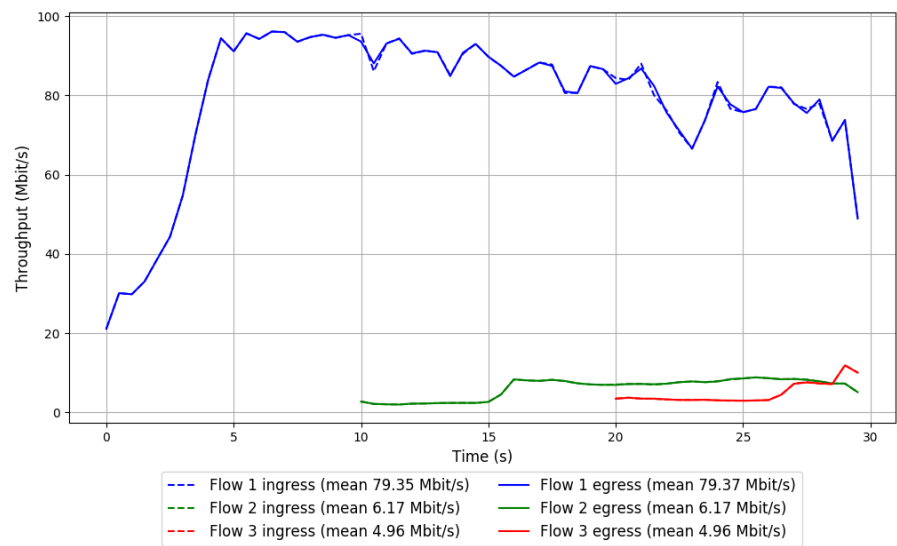


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 14:55:15  
End at: 2018-04-17 14:55:45  
Local clock offset: -5.14 ms  
Remote clock offset: -6.508 ms

# Below is generated by plot.py at 2018-04-17 19:33:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.10 Mbit/s  
95th percentile per-packet one-way delay: 9.434 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 79.37 Mbit/s  
95th percentile per-packet one-way delay: 9.341 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 6.17 Mbit/s  
95th percentile per-packet one-way delay: 10.375 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 4.96 Mbit/s  
95th percentile per-packet one-way delay: 11.124 ms  
Loss rate: 0.10%

Run 6: Report of PCC-Allegro — Data Link



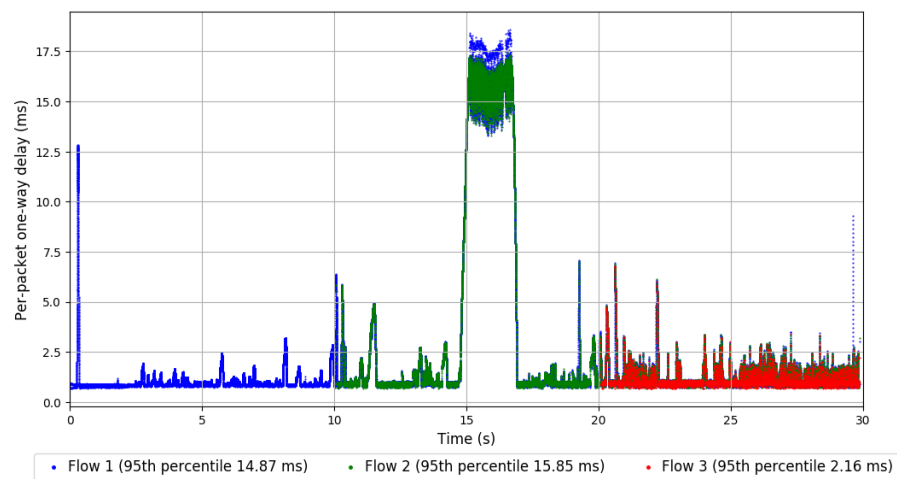
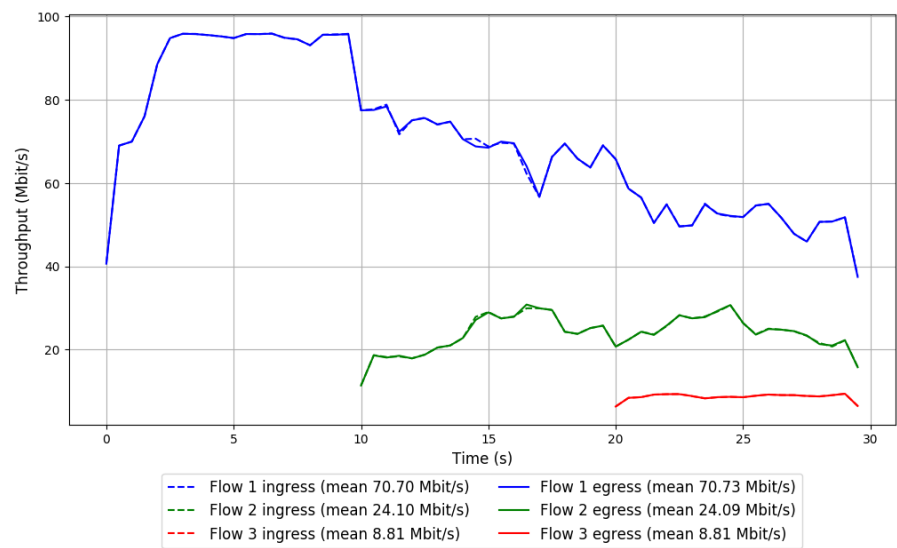


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 15:14:23  
End at: 2018-04-17 15:14:53  
Local clock offset: -6.054 ms  
Remote clock offset: -6.273 ms

# Below is generated by plot.py at 2018-04-17 19:34:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.64 Mbit/s  
95th percentile per-packet one-way delay: 15.146 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 70.73 Mbit/s  
95th percentile per-packet one-way delay: 14.871 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 24.09 Mbit/s  
95th percentile per-packet one-way delay: 15.854 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 8.81 Mbit/s  
95th percentile per-packet one-way delay: 2.156 ms  
Loss rate: 0.01%

Run 7: Report of PCC-Allegro — Data Link

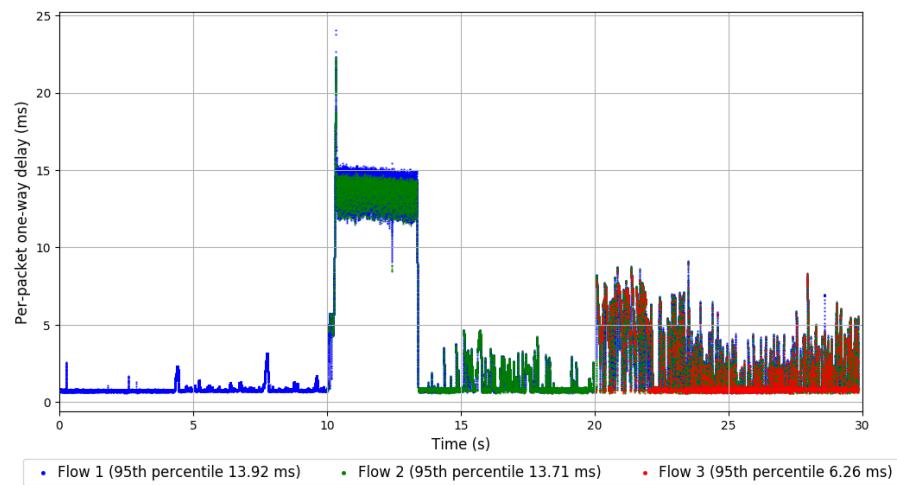
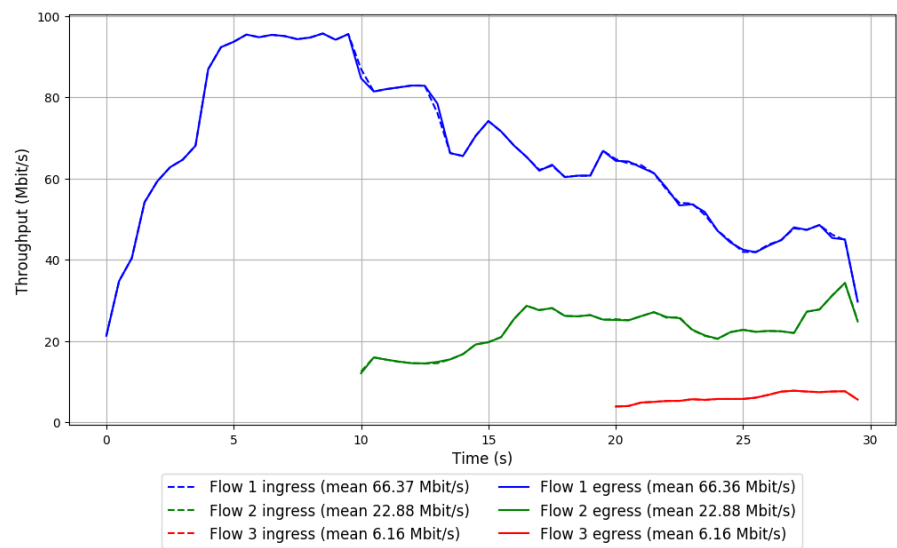


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 15:33:32  
End at: 2018-04-17 15:34:02  
Local clock offset: -6.223 ms  
Remote clock offset: -6.584 ms

# Below is generated by plot.py at 2018-04-17 19:34:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.59 Mbit/s  
95th percentile per-packet one-way delay: 13.863 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 66.36 Mbit/s  
95th percentile per-packet one-way delay: 13.922 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 22.88 Mbit/s  
95th percentile per-packet one-way delay: 13.708 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 6.16 Mbit/s  
95th percentile per-packet one-way delay: 6.256 ms  
Loss rate: 0.06%

Run 8: Report of PCC-Allegro — Data Link

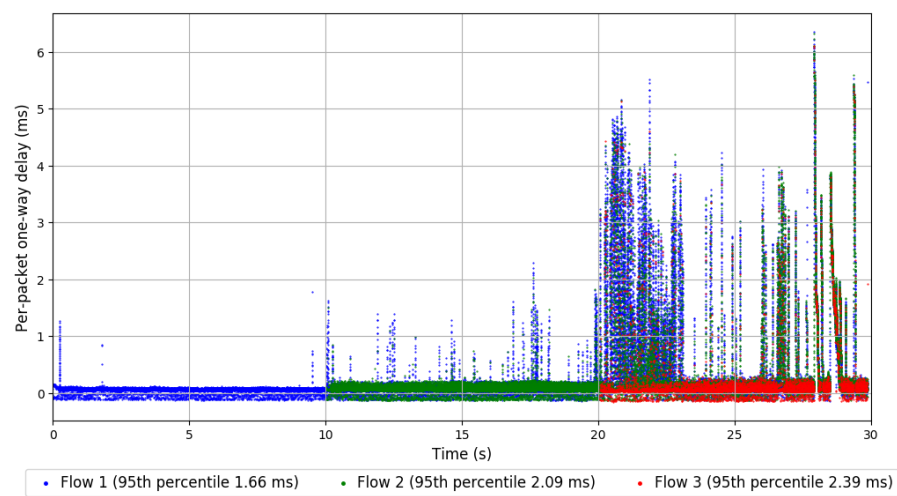
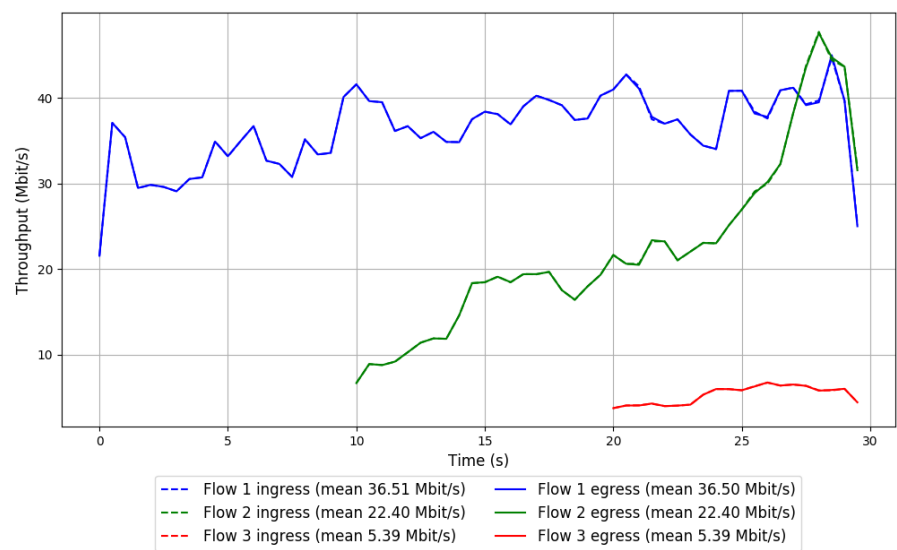


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 15:52:40  
End at: 2018-04-17 15:53:10  
Local clock offset: -7.036 ms  
Remote clock offset: -6.872 ms

# Below is generated by plot.py at 2018-04-17 19:34:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.17 Mbit/s  
95th percentile per-packet one-way delay: 1.837 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 36.50 Mbit/s  
95th percentile per-packet one-way delay: 1.661 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 22.40 Mbit/s  
95th percentile per-packet one-way delay: 2.094 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 5.39 Mbit/s  
95th percentile per-packet one-way delay: 2.391 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Allegro — Data Link

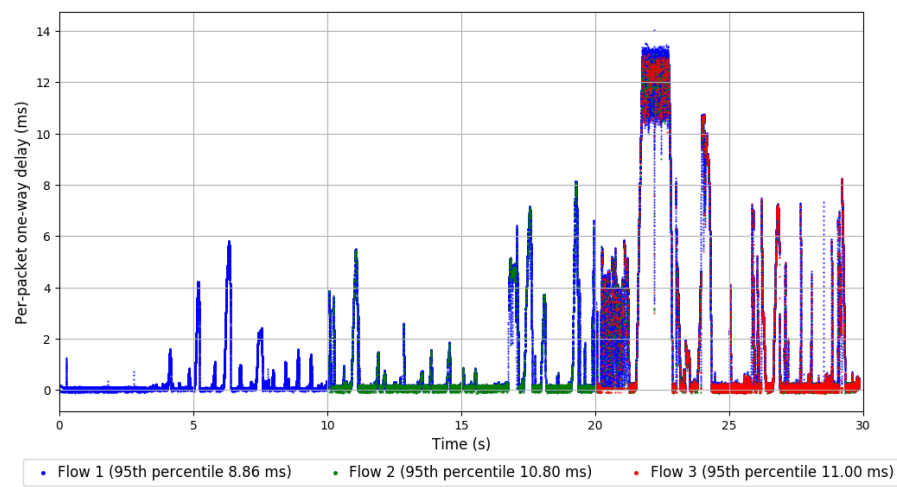
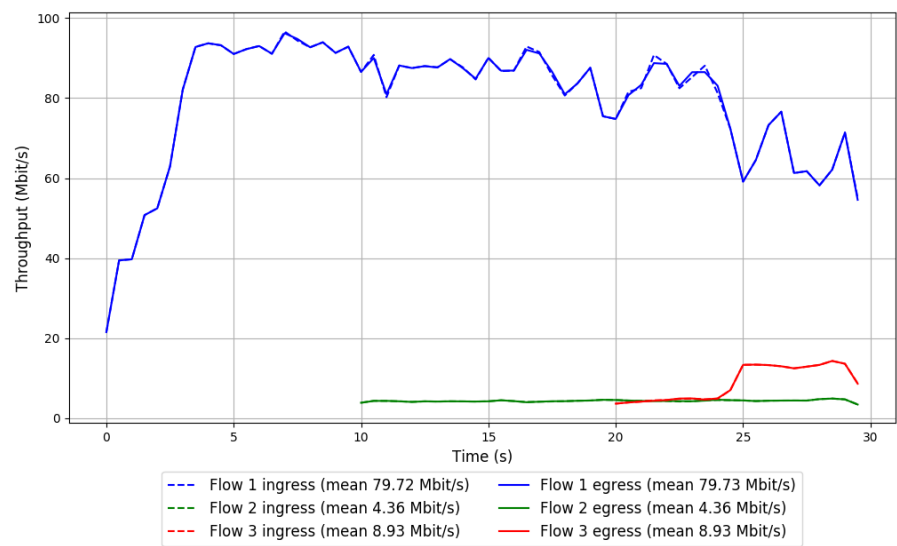


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 16:11:46  
End at: 2018-04-17 16:12:16  
Local clock offset: -7.13 ms  
Remote clock offset: -7.136 ms

# Below is generated by plot.py at 2018-04-17 19:34:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.57 Mbit/s  
95th percentile per-packet one-way delay: 9.101 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 79.73 Mbit/s  
95th percentile per-packet one-way delay: 8.863 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 4.36 Mbit/s  
95th percentile per-packet one-way delay: 10.803 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 8.93 Mbit/s  
95th percentile per-packet one-way delay: 11.003 ms  
Loss rate: 0.04%

Run 10: Report of PCC-Allegro — Data Link



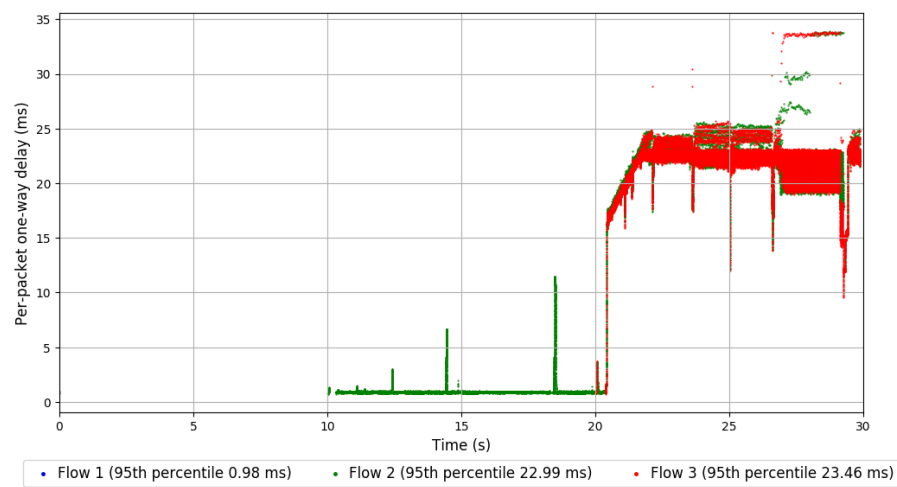
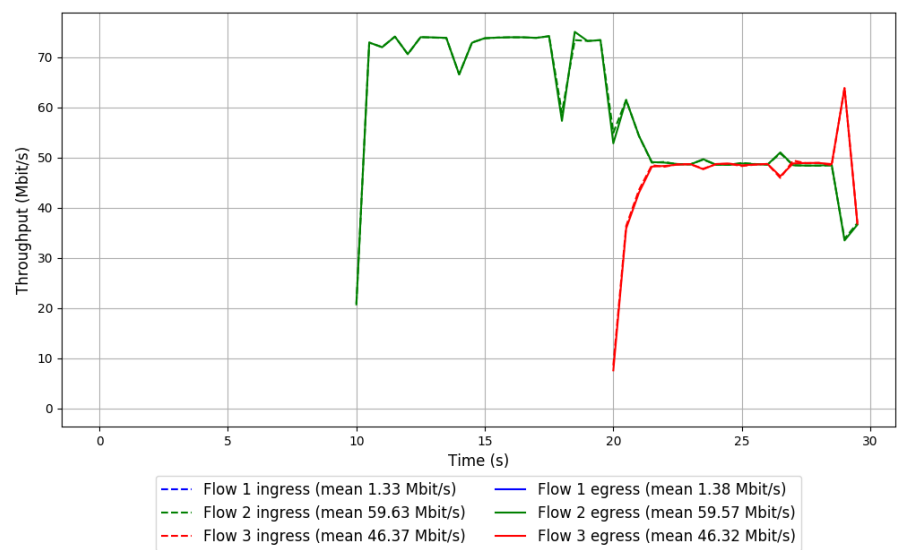


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 13:05:04  
End at: 2018-04-17 13:05:34  
Local clock offset: -5.76 ms  
Remote clock offset: -6.593 ms

# Below is generated by plot.py at 2018-04-17 19:34:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.88 Mbit/s  
95th percentile per-packet one-way delay: 23.014 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 1.38 Mbit/s  
95th percentile per-packet one-way delay: 0.980 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 59.57 Mbit/s  
95th percentile per-packet one-way delay: 22.990 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 46.32 Mbit/s  
95th percentile per-packet one-way delay: 23.456 ms  
Loss rate: 0.25%

Run 1: Report of QUIC Cubic — Data Link

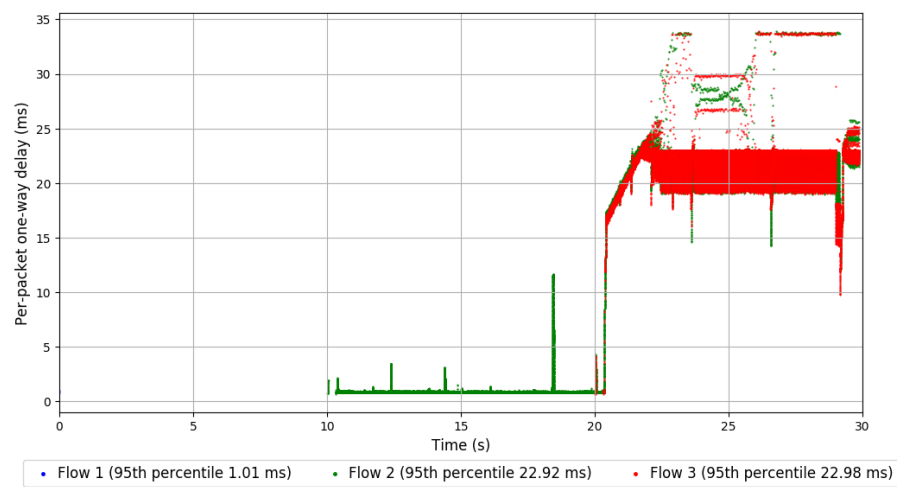
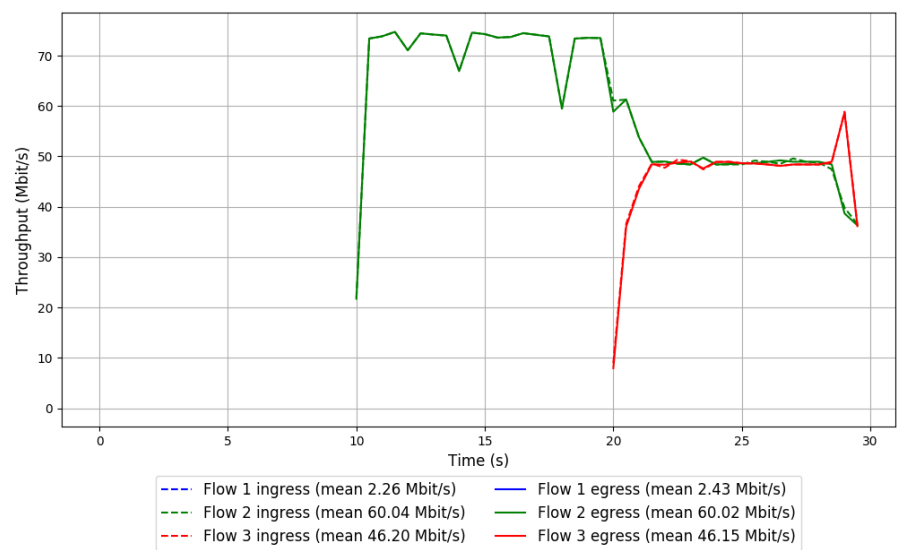


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 13:24:10  
End at: 2018-04-17 13:24:40  
Local clock offset: -5.67 ms  
Remote clock offset: -6.228 ms

# Below is generated by plot.py at 2018-04-17 19:34:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.14 Mbit/s  
95th percentile per-packet one-way delay: 22.952 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 2.43 Mbit/s  
95th percentile per-packet one-way delay: 1.012 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.02 Mbit/s  
95th percentile per-packet one-way delay: 22.924 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 46.15 Mbit/s  
95th percentile per-packet one-way delay: 22.985 ms  
Loss rate: 0.26%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 13:43:19

End at: 2018-04-17 13:43:49

Local clock offset: -4.634 ms

Remote clock offset: -6.37 ms

# Below is generated by plot.py at 2018-04-17 19:34:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 60.51 Mbit/s

95th percentile per-packet one-way delay: 23.744 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 1.878 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 67.27 Mbit/s

95th percentile per-packet one-way delay: 23.703 ms

Loss rate: 0.09%

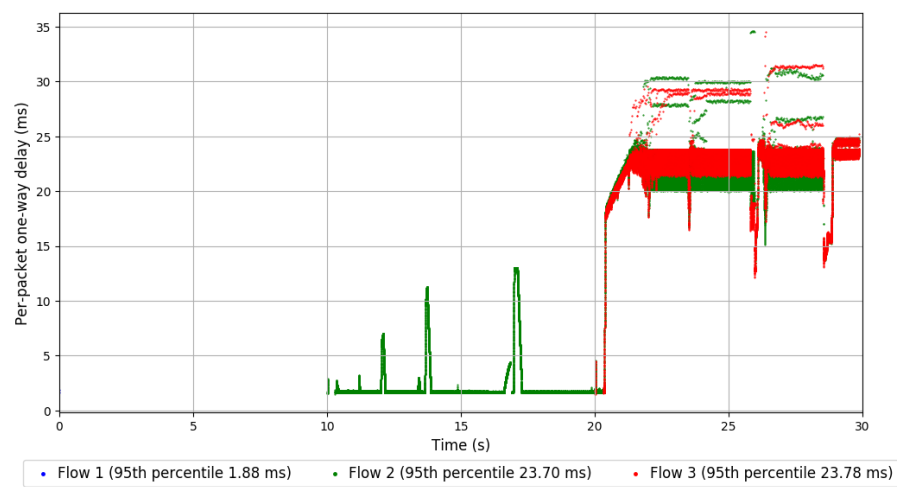
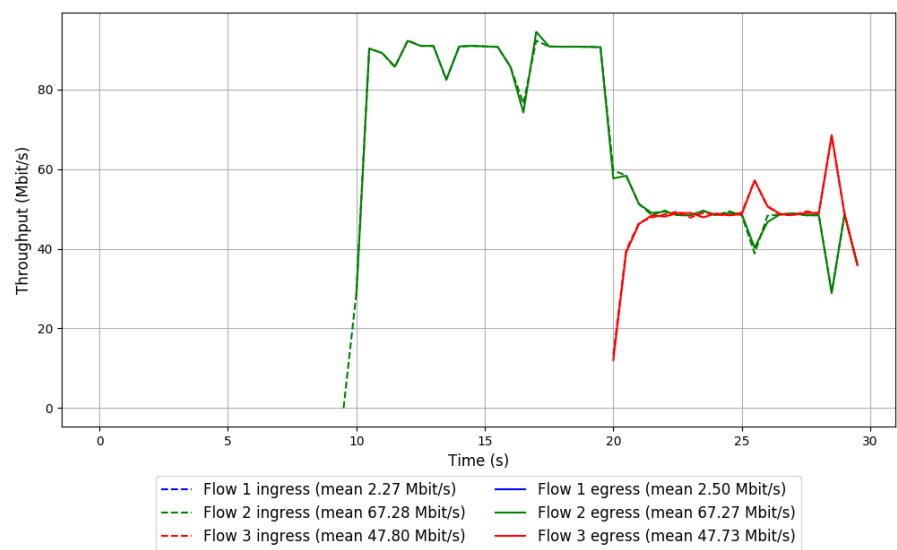
-- Flow 3:

Average throughput: 47.73 Mbit/s

95th percentile per-packet one-way delay: 23.780 ms

Loss rate: 0.24%

Run 3: Report of QUIC Cubic — Data Link

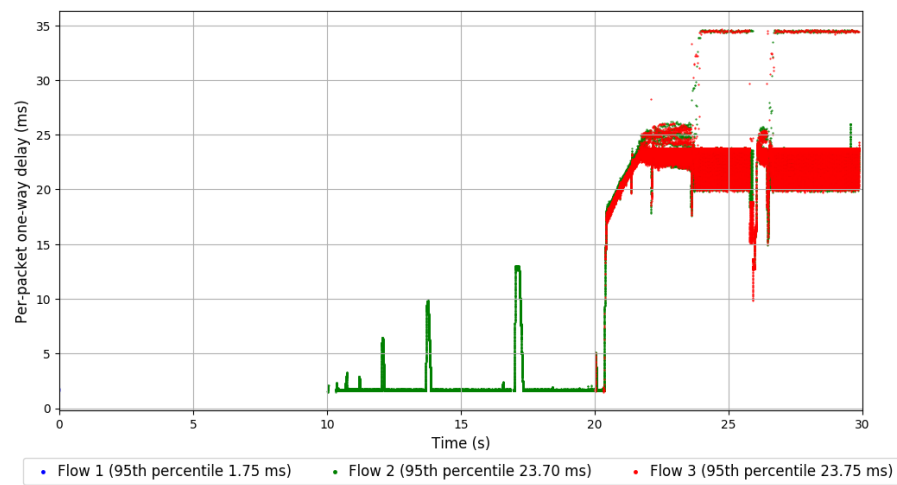
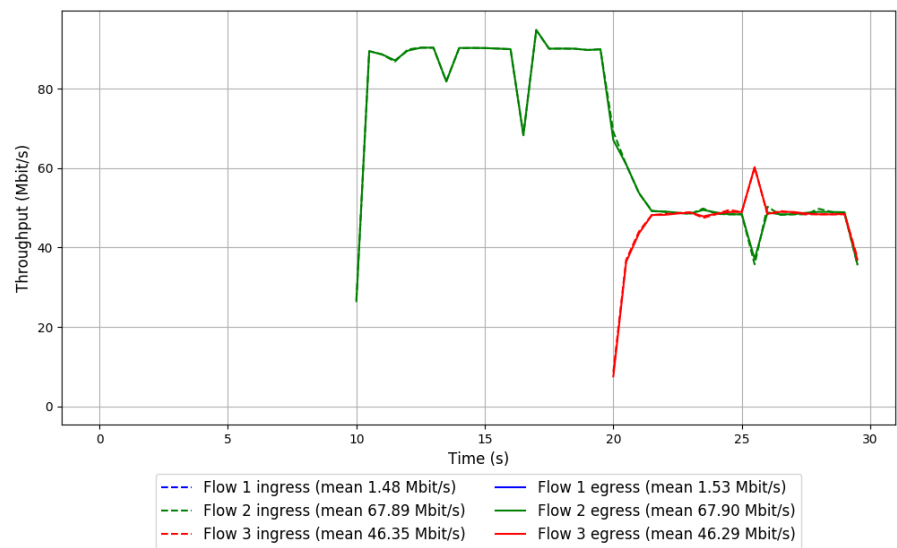


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 14:02:27  
End at: 2018-04-17 14:02:57  
Local clock offset: -4.721 ms  
Remote clock offset: -6.554 ms

# Below is generated by plot.py at 2018-04-17 19:34:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.41 Mbit/s  
95th percentile per-packet one-way delay: 23.725 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 1.53 Mbit/s  
95th percentile per-packet one-way delay: 1.755 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 67.90 Mbit/s  
95th percentile per-packet one-way delay: 23.705 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 46.29 Mbit/s  
95th percentile per-packet one-way delay: 23.749 ms  
Loss rate: 0.28%

Run 4: Report of QUIC Cubic — Data Link



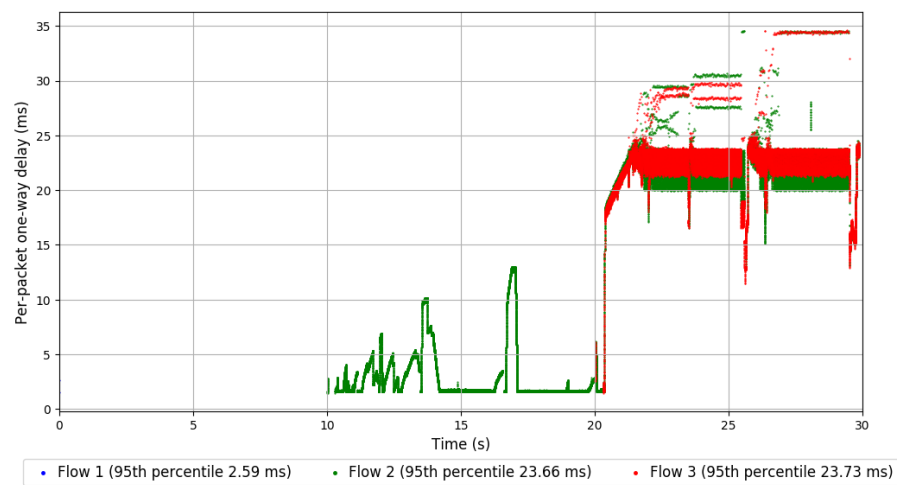
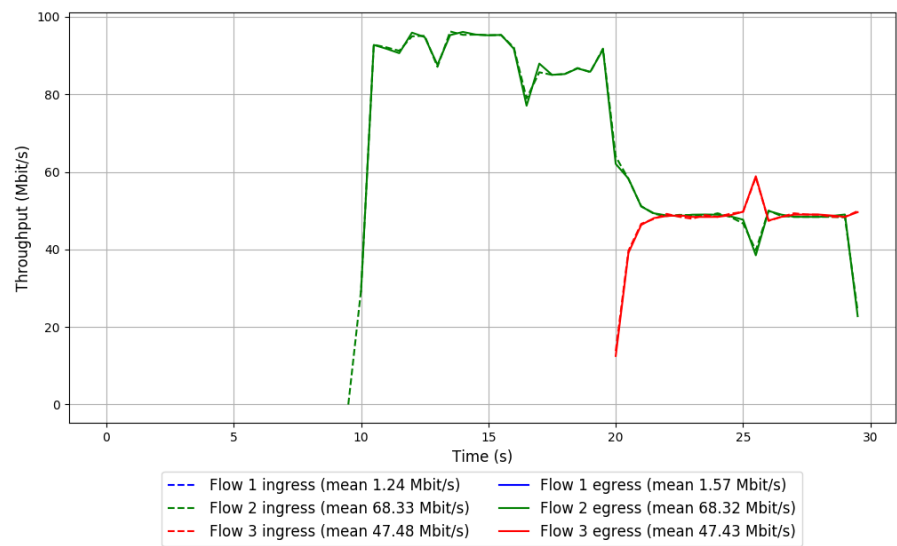


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 14:21:35  
End at: 2018-04-17 14:22:05  
Local clock offset: -4.865 ms  
Remote clock offset: -6.936 ms

# Below is generated by plot.py at 2018-04-17 19:35:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.11 Mbit/s  
95th percentile per-packet one-way delay: 23.696 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 1.57 Mbit/s  
95th percentile per-packet one-way delay: 2.586 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 68.32 Mbit/s  
95th percentile per-packet one-way delay: 23.662 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 47.43 Mbit/s  
95th percentile per-packet one-way delay: 23.727 ms  
Loss rate: 0.26%

Run 5: Report of QUIC Cubic — Data Link

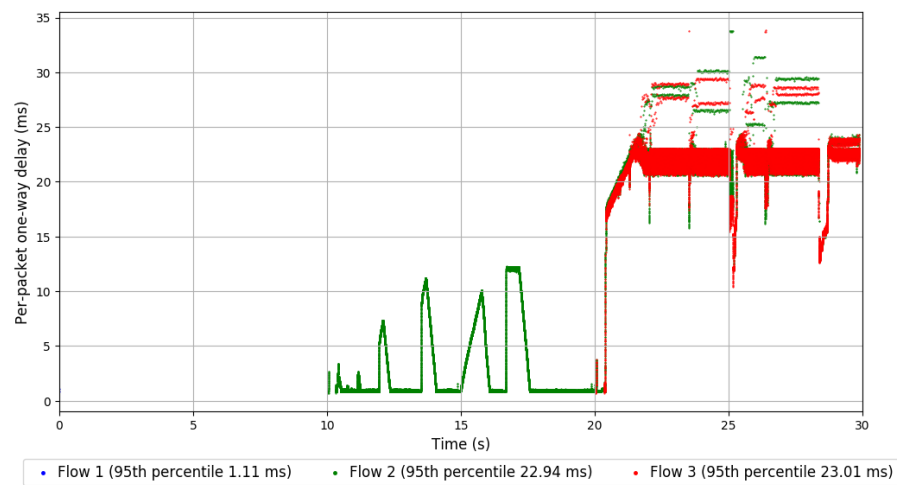
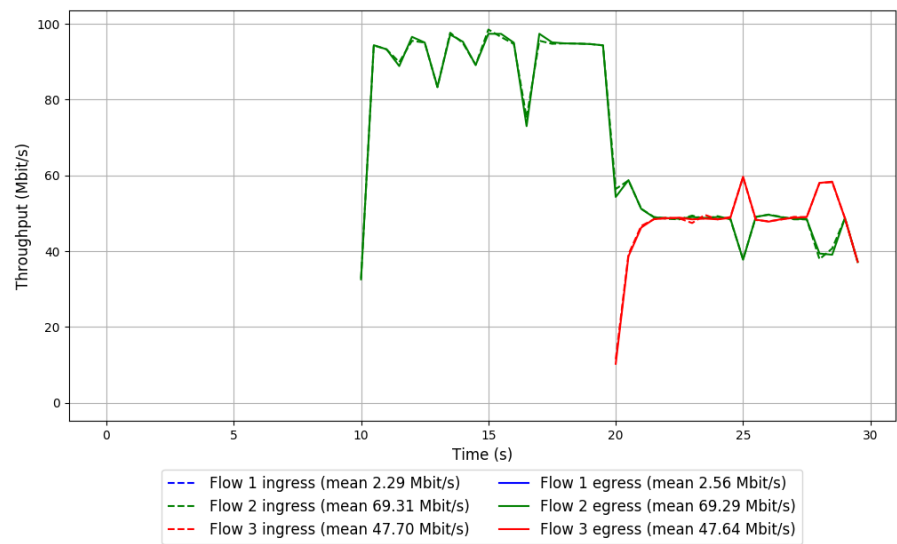


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 14:40:44  
End at: 2018-04-17 14:41:14  
Local clock offset: -5.794 ms  
Remote clock offset: -6.807 ms

# Below is generated by plot.py at 2018-04-17 19:35:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.77 Mbit/s  
95th percentile per-packet one-way delay: 22.972 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 2.56 Mbit/s  
95th percentile per-packet one-way delay: 1.108 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 69.29 Mbit/s  
95th percentile per-packet one-way delay: 22.944 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 47.64 Mbit/s  
95th percentile per-packet one-way delay: 23.013 ms  
Loss rate: 0.24%

Run 6: Report of QUIC Cubic — Data Link

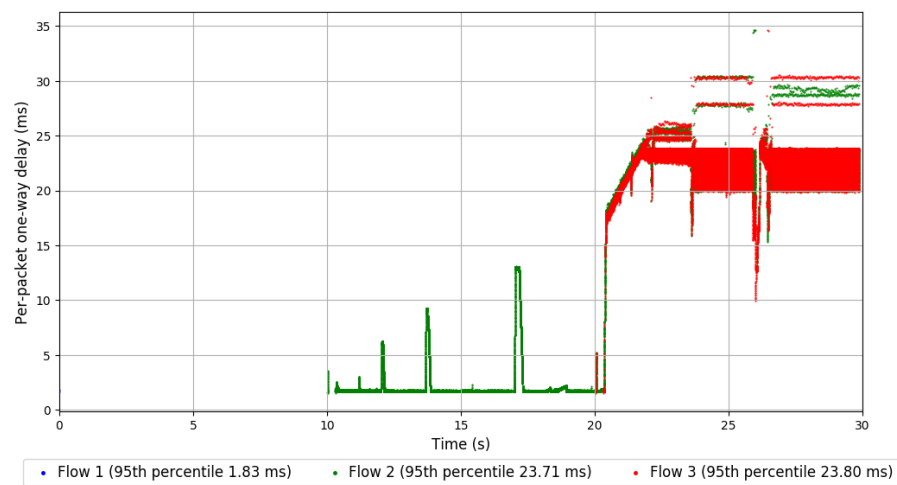
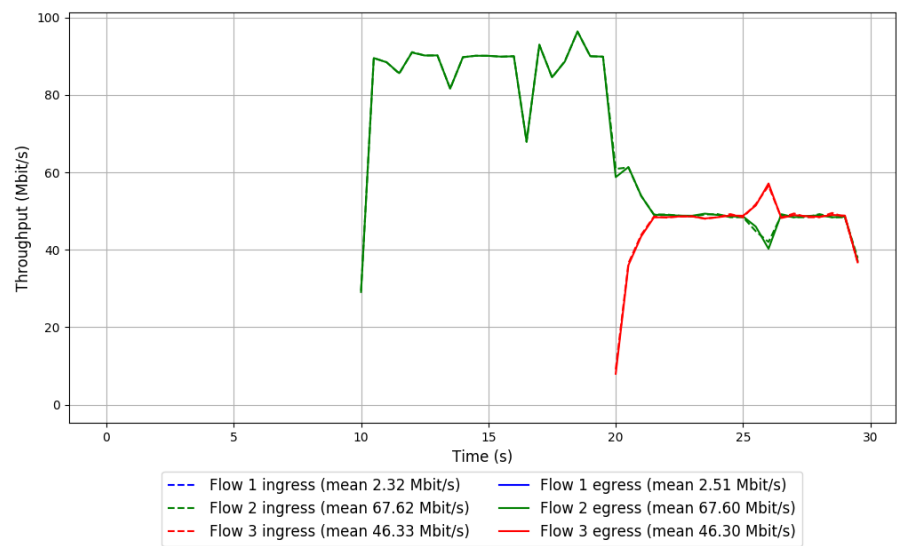


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 14:59:52  
End at: 2018-04-17 15:00:22  
Local clock offset: -5.157 ms  
Remote clock offset: -6.486 ms

# Below is generated by plot.py at 2018-04-17 19:35:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.23 Mbit/s  
95th percentile per-packet one-way delay: 23.751 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 1.833 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 67.60 Mbit/s  
95th percentile per-packet one-way delay: 23.706 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 46.30 Mbit/s  
95th percentile per-packet one-way delay: 23.804 ms  
Loss rate: 0.23%

Run 7: Report of QUIC Cubic — Data Link

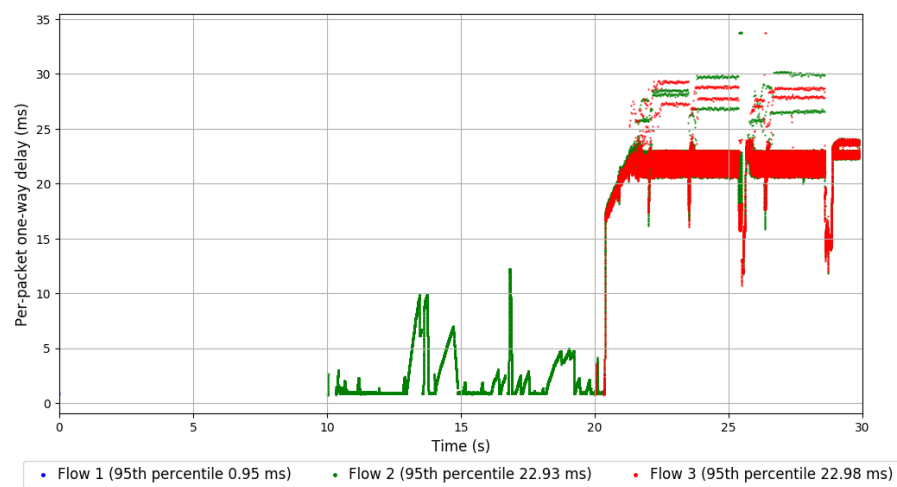
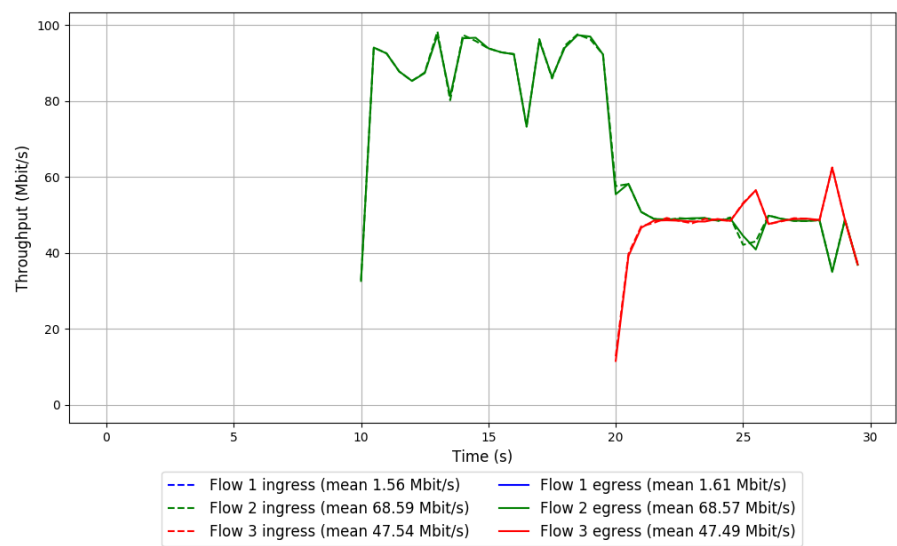


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 15:19:00  
End at: 2018-04-17 15:19:30  
Local clock offset: -6.075 ms  
Remote clock offset: -6.222 ms

# Below is generated by plot.py at 2018-04-17 19:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.25 Mbit/s  
95th percentile per-packet one-way delay: 22.950 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 1.61 Mbit/s  
95th percentile per-packet one-way delay: 0.953 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 68.57 Mbit/s  
95th percentile per-packet one-way delay: 22.928 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 47.49 Mbit/s  
95th percentile per-packet one-way delay: 22.976 ms  
Loss rate: 0.24%

Run 8: Report of QUIC Cubic — Data Link



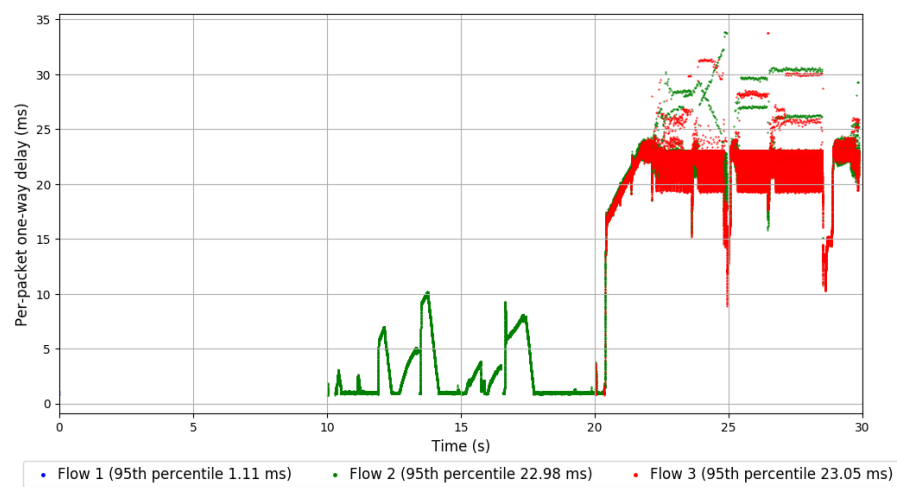
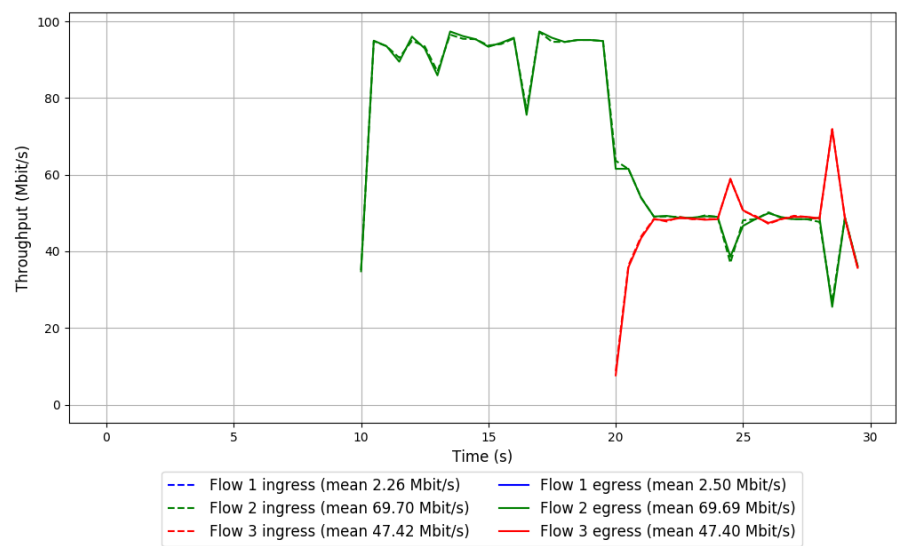


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 15:38:08  
End at: 2018-04-17 15:38:38  
Local clock offset: -6.196 ms  
Remote clock offset: -6.751 ms

# Below is generated by plot.py at 2018-04-17 19:35:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.98 Mbit/s  
95th percentile per-packet one-way delay: 23.003 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 2.50 Mbit/s  
95th percentile per-packet one-way delay: 1.109 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 69.69 Mbit/s  
95th percentile per-packet one-way delay: 22.982 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 47.40 Mbit/s  
95th percentile per-packet one-way delay: 23.052 ms  
Loss rate: 0.23%

Run 9: Report of QUIC Cubic — Data Link

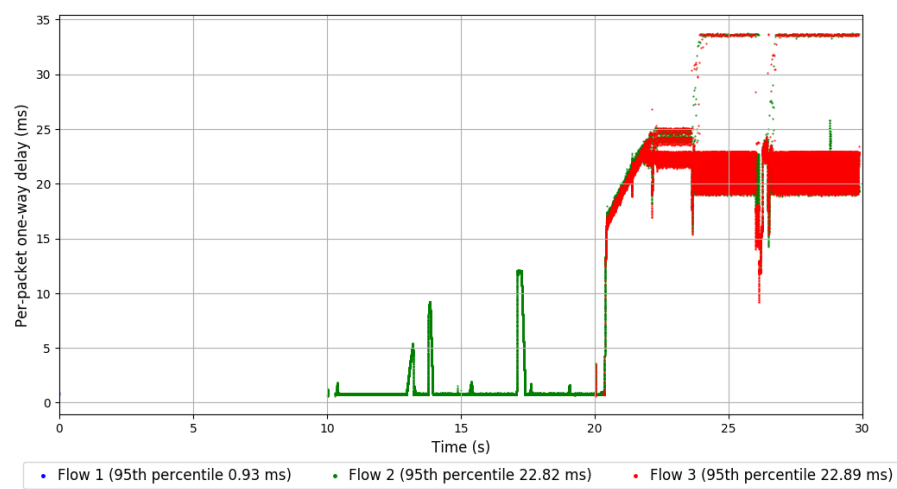
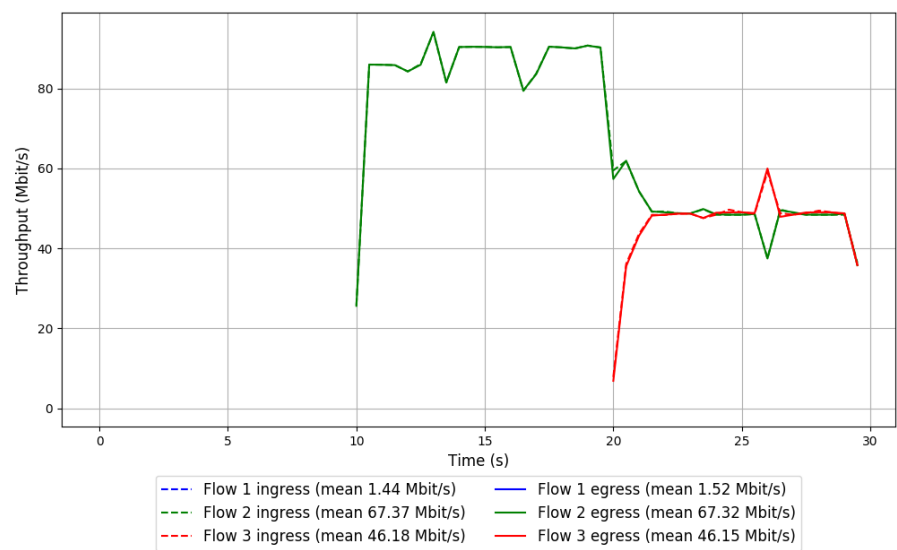


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 15:57:16  
End at: 2018-04-17 15:57:46  
Local clock offset: -6.369 ms  
Remote clock offset: -6.943 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.00 Mbit/s  
95th percentile per-packet one-way delay: 22.856 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 1.52 Mbit/s  
95th percentile per-packet one-way delay: 0.932 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 67.32 Mbit/s  
95th percentile per-packet one-way delay: 22.822 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 46.15 Mbit/s  
95th percentile per-packet one-way delay: 22.892 ms  
Loss rate: 0.24%

Run 10: Report of QUIC Cubic — Data Link

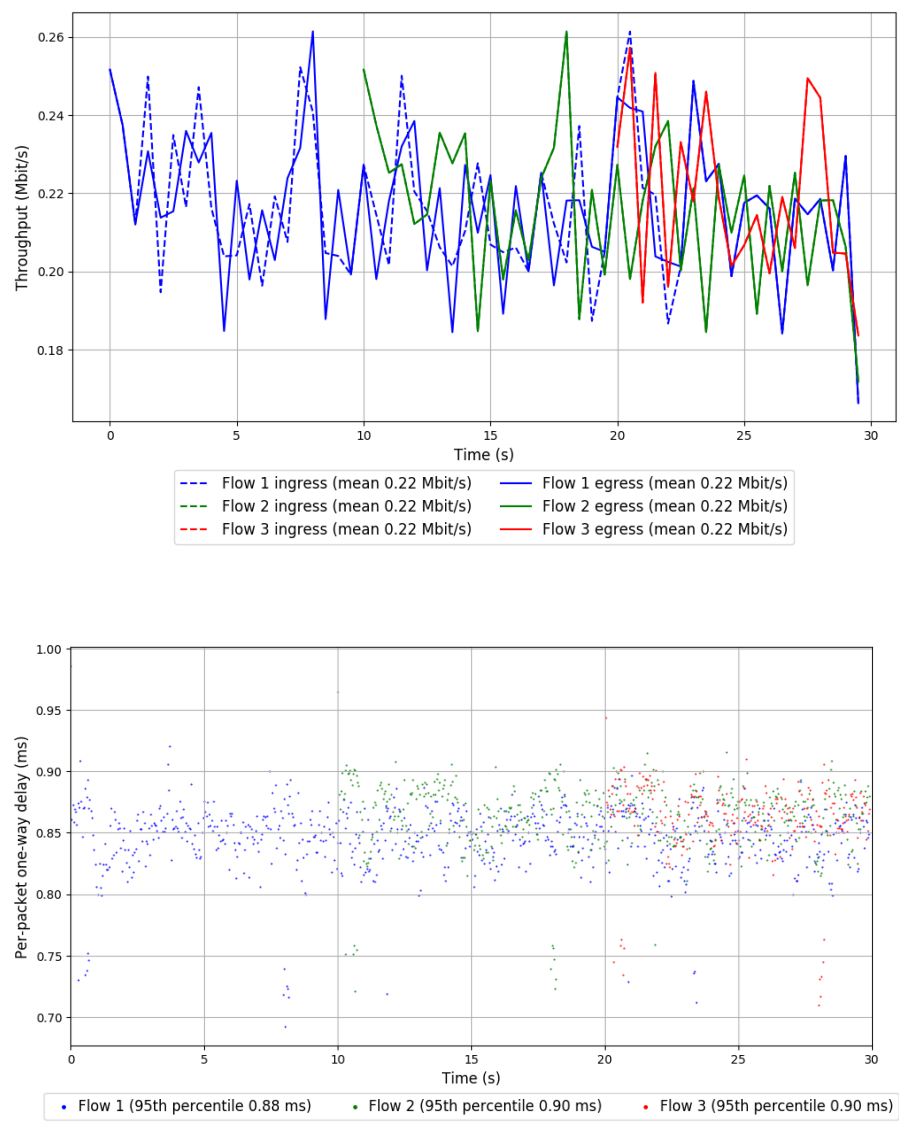


Run 1: Statistics of SReAM

Start at: 2018-04-17 13:14:02  
End at: 2018-04-17 13:14:32  
Local clock offset: -5.718 ms  
Remote clock offset: -6.395 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 0.893 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.876 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.899 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.896 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

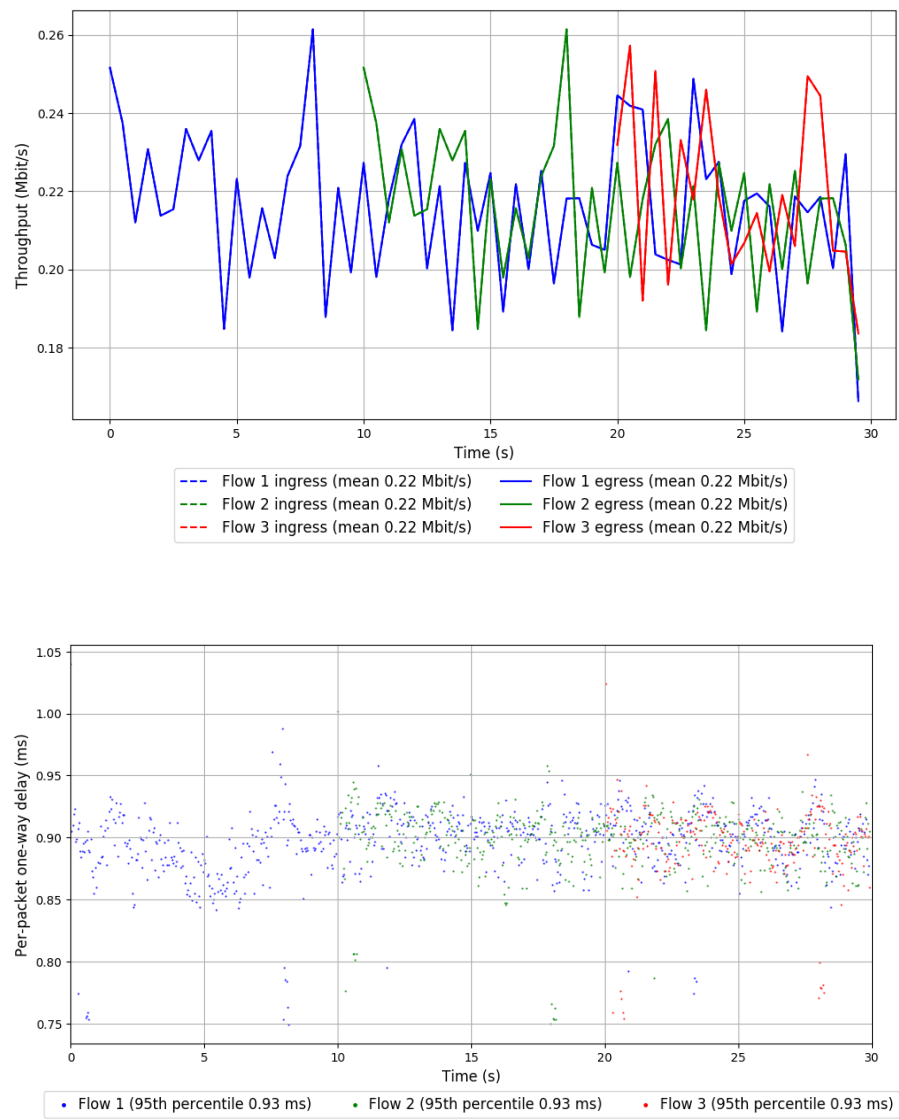


Run 2: Statistics of SReAM

Start at: 2018-04-17 13:33:08  
End at: 2018-04-17 13:33:38  
Local clock offset: -5.465 ms  
Remote clock offset: -6.032 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 0.928 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.929 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.928 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.925 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



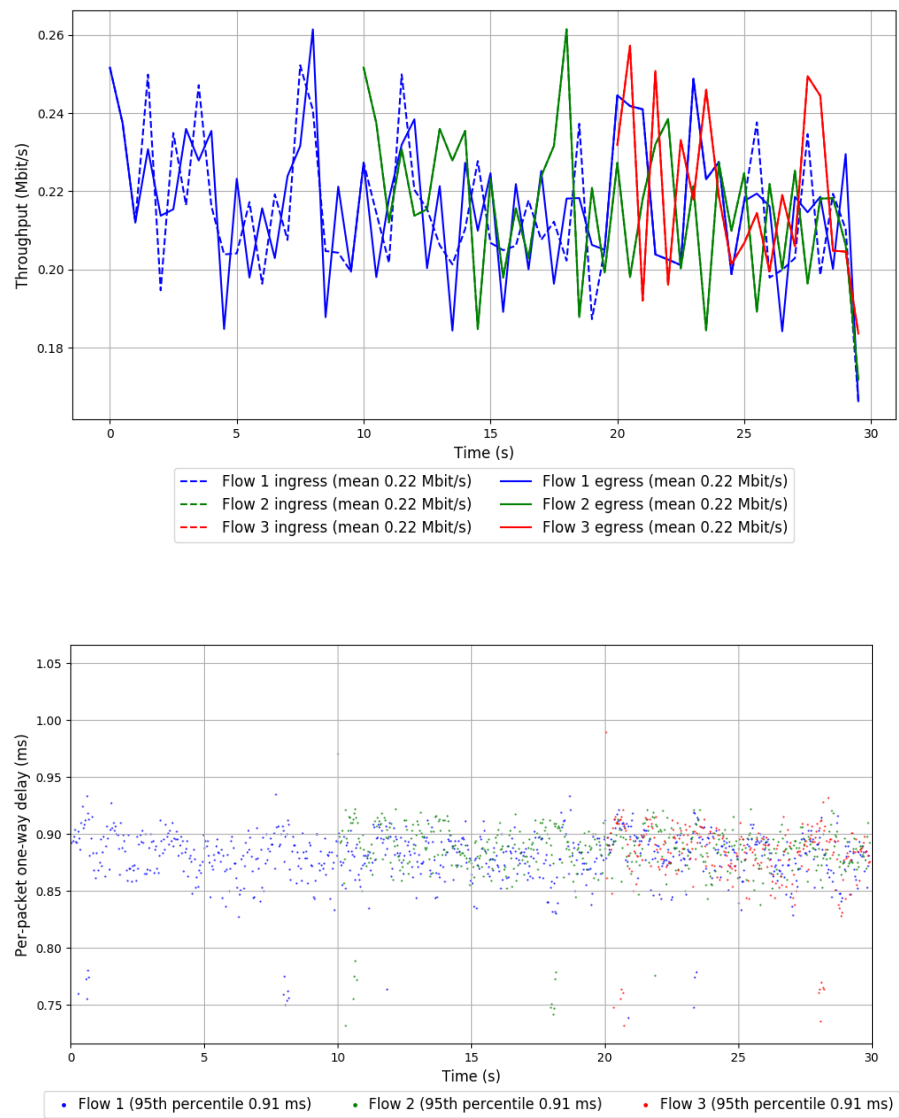


Run 3: Statistics of SReAM

Start at: 2018-04-17 13:52:17  
End at: 2018-04-17 13:52:47  
Local clock offset: -5.325 ms  
Remote clock offset: -6.489 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 0.912 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.910 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.914 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.913 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

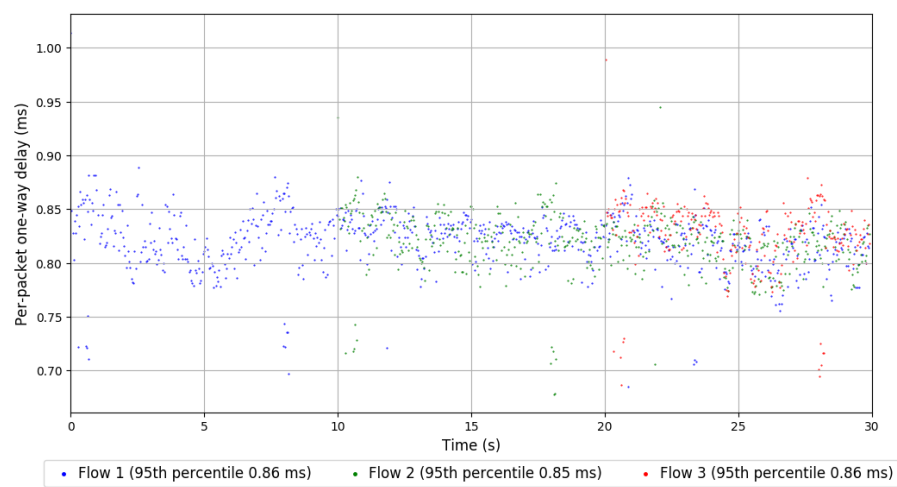
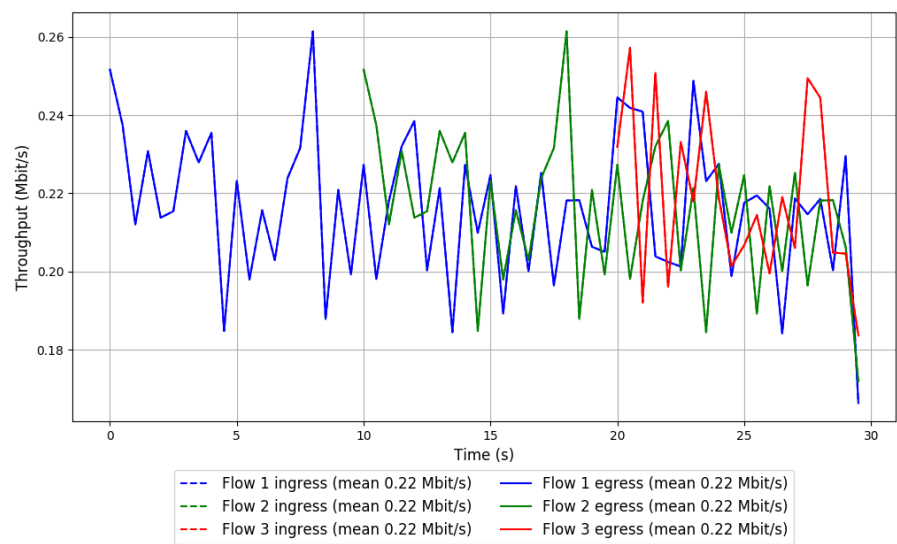


Run 4: Statistics of SReAM

Start at: 2018-04-17 14:11:25  
End at: 2018-04-17 14:11:55  
Local clock offset: -5.59 ms  
Remote clock offset: -6.597 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 0.857 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.858 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.854 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.860 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

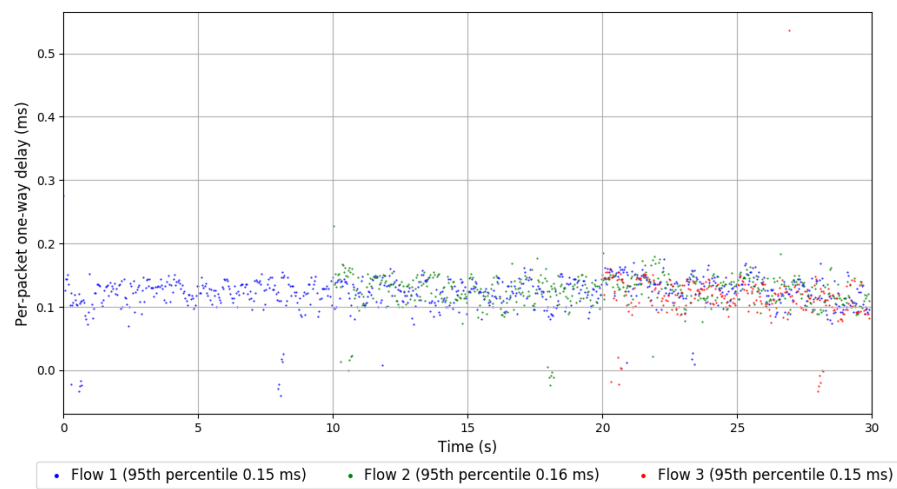
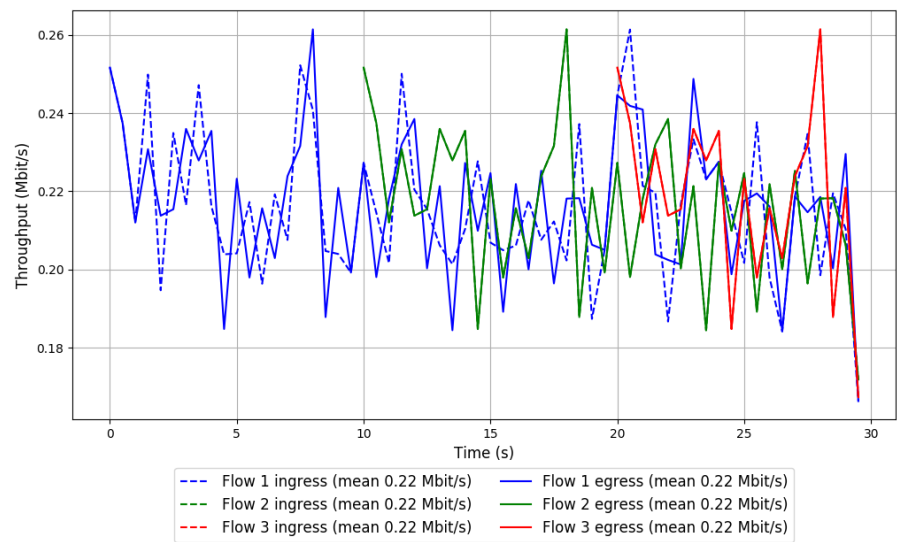


Run 5: Statistics of SReAM

Start at: 2018-04-17 14:30:33  
End at: 2018-04-17 14:31:03  
Local clock offset: -6.377 ms  
Remote clock offset: -6.902 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 0.154 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.154 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.156 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.148 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

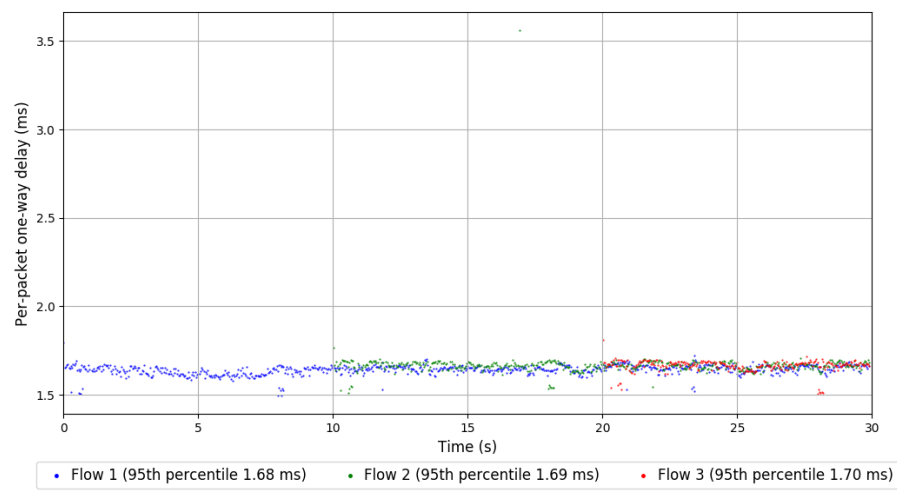
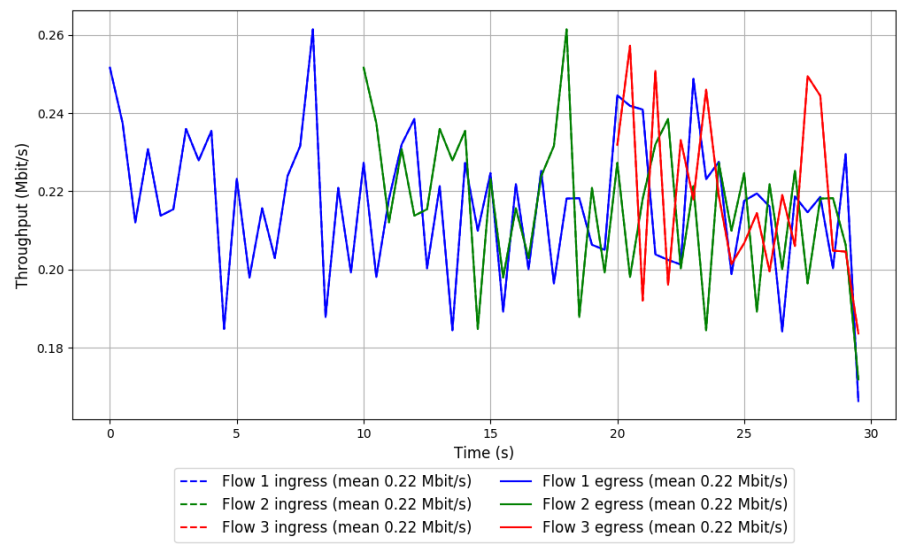


Run 6: Statistics of SReAM

Start at: 2018-04-17 14:49:42  
End at: 2018-04-17 14:50:12  
Local clock offset: -5.101 ms  
Remote clock offset: -6.645 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.692 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.676 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.694 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.697 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



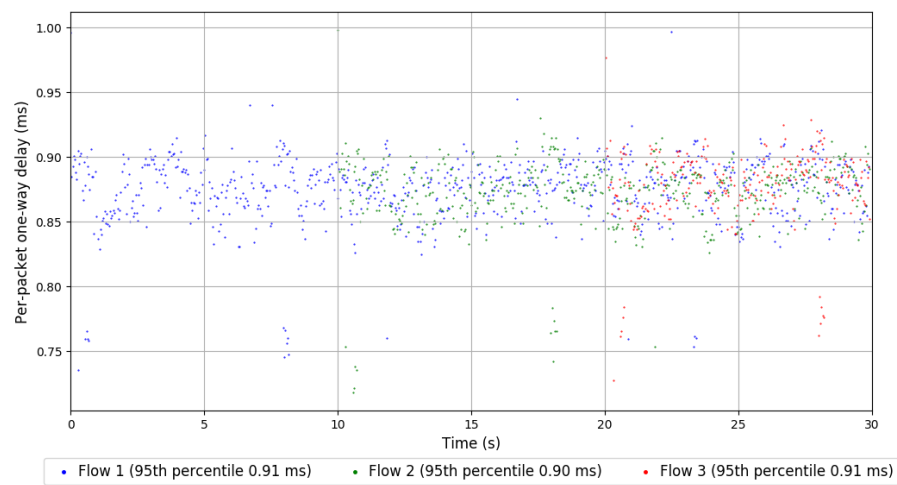
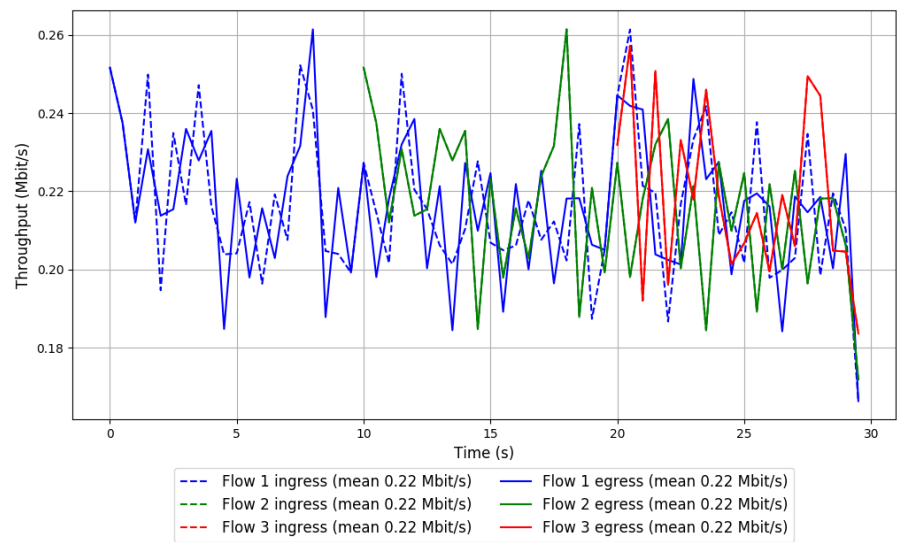


Run 7: Statistics of SReAM

Start at: 2018-04-17 15:08:49  
End at: 2018-04-17 15:09:19  
Local clock offset: -6.062 ms  
Remote clock offset: -6.395 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 0.906 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.906 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.904 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.909 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

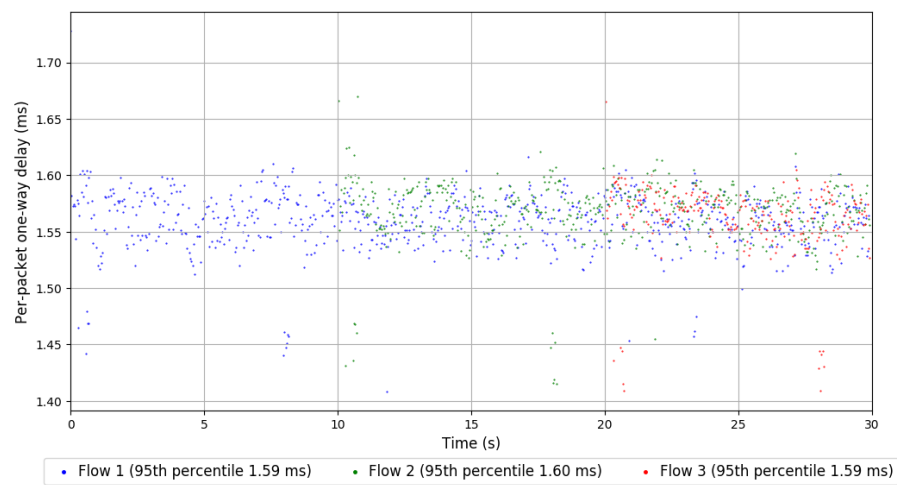
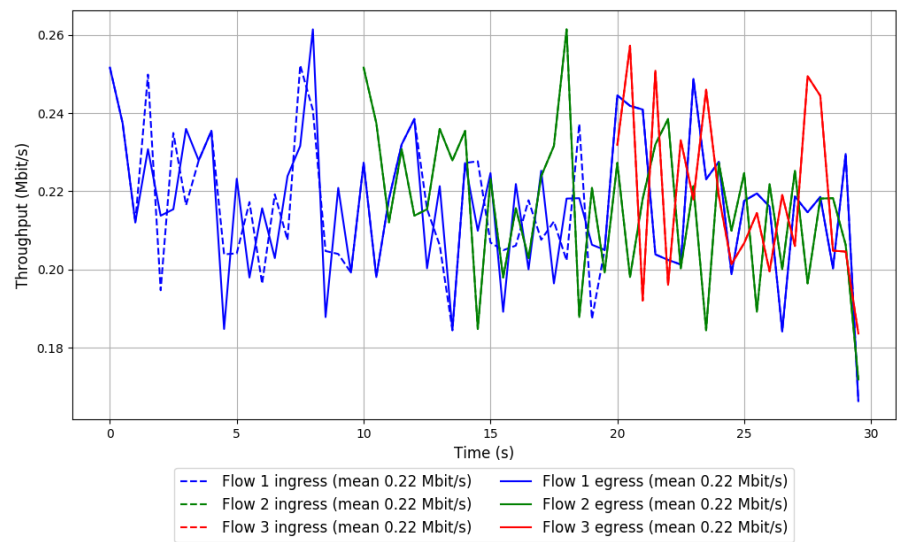


Run 8: Statistics of SReAM

Start at: 2018-04-17 15:27:59  
End at: 2018-04-17 15:28:29  
Local clock offset: -5.392 ms  
Remote clock offset: -6.444 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.595 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.592 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.599 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.593 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

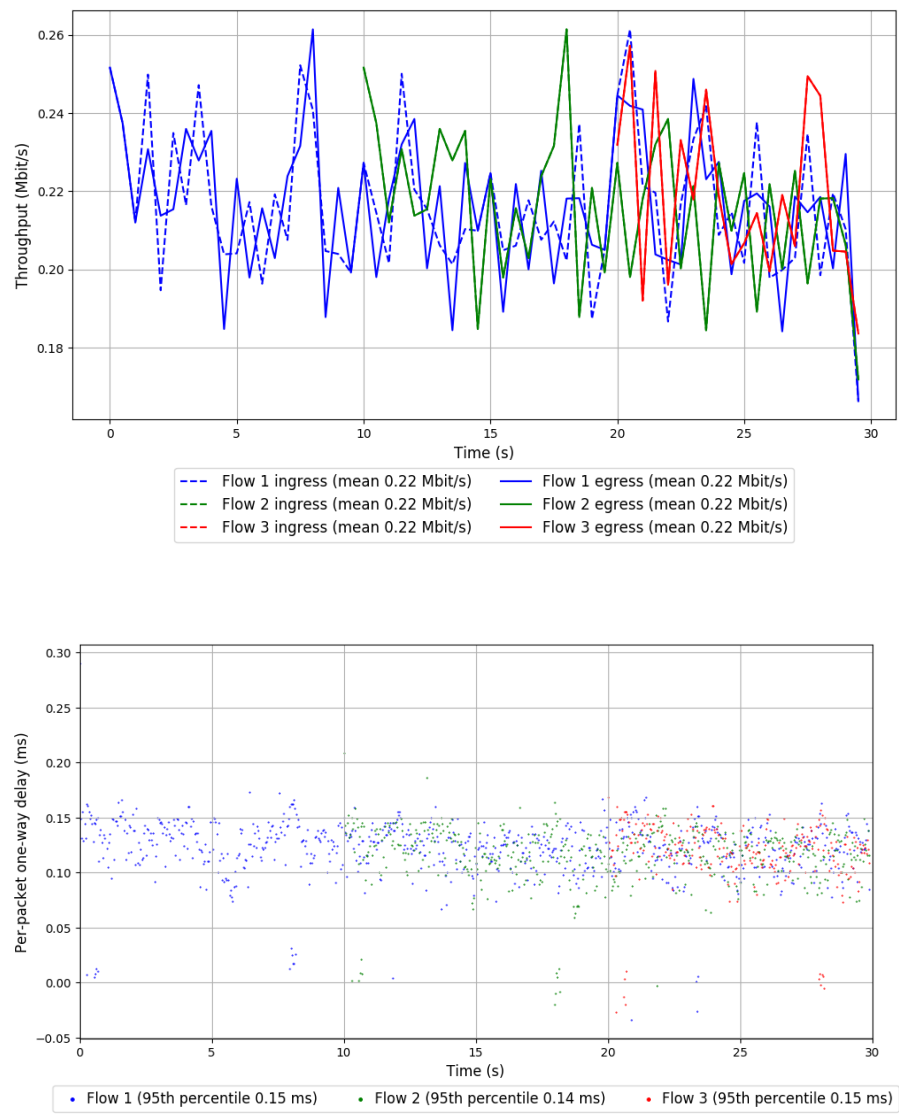


Run 9: Statistics of SReAM

Start at: 2018-04-17 15:47:06  
End at: 2018-04-17 15:47:36  
Local clock offset: -6.965 ms  
Remote clock offset: -6.795 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 0.150 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.153 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.145 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.150 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

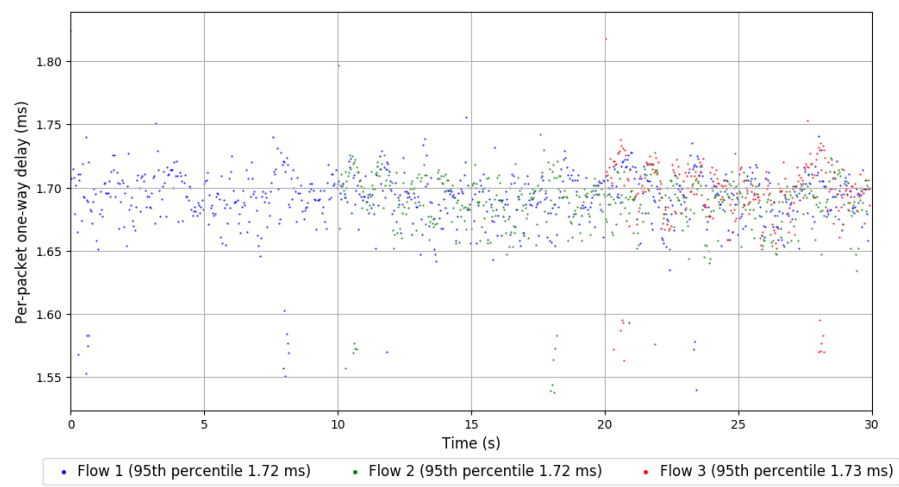
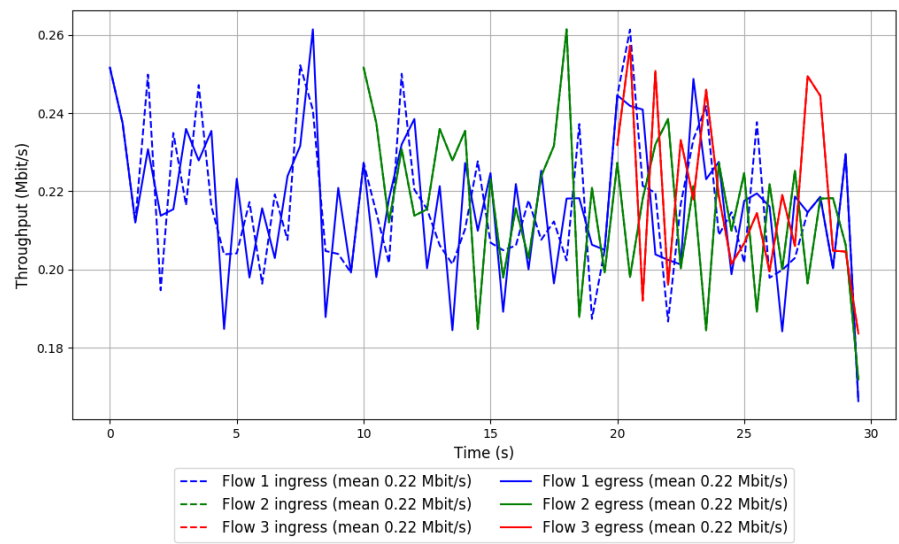


Run 10: Statistics of SReAM

Start at: 2018-04-17 16:06:12  
End at: 2018-04-17 16:06:42  
Local clock offset: -5.56 ms  
Remote clock offset: -7.132 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.721 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.721 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.715 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.727 ms  
Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



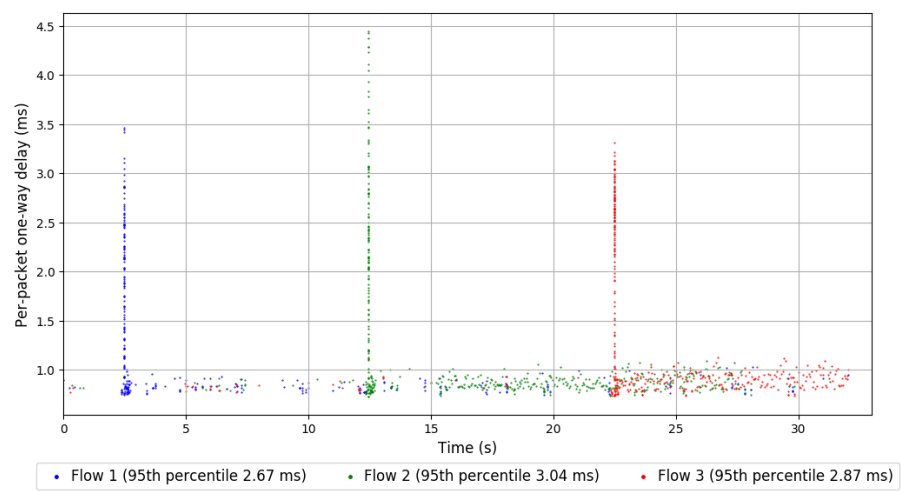
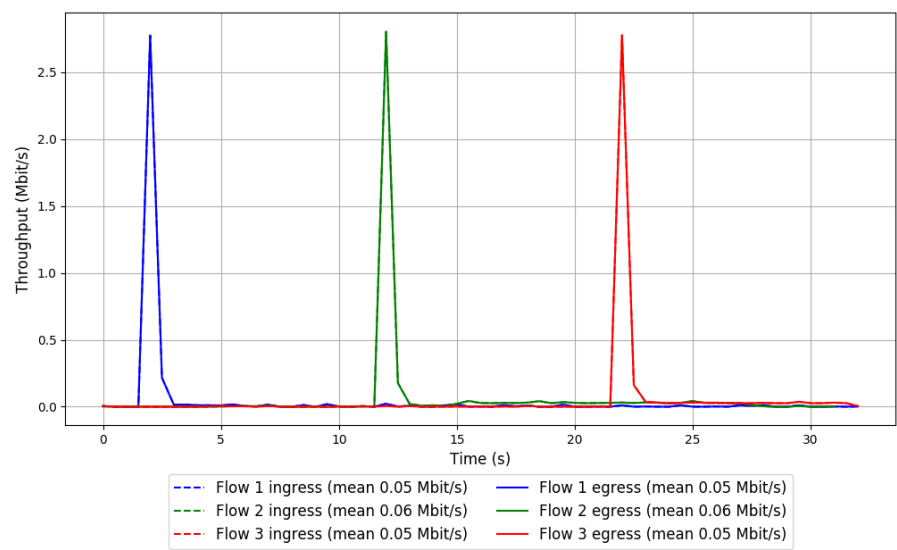


Run 1: Statistics of WebRTC media

Start at: 2018-04-17 13:06:11  
End at: 2018-04-17 13:06:41  
Local clock offset: -5.647 ms  
Remote clock offset: -6.523 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 2.866 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 2.666 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.044 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 2.868 ms  
Loss rate: 0.04%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 13:25:16

End at: 2018-04-17 13:25:46

Local clock offset: -5.586 ms

Remote clock offset: -6.18 ms

# Below is generated by plot.py at 2018-04-17 19:35:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 2.885 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 3.141 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 2.183 ms

Loss rate: 0.00%

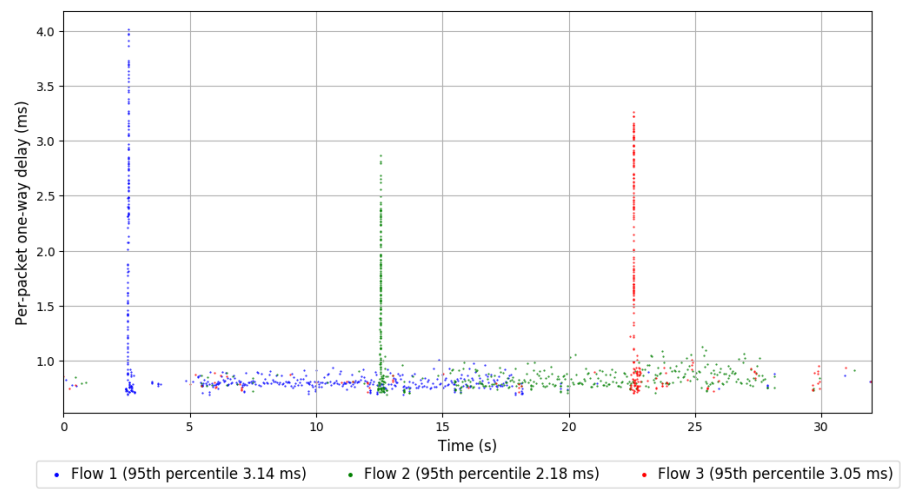
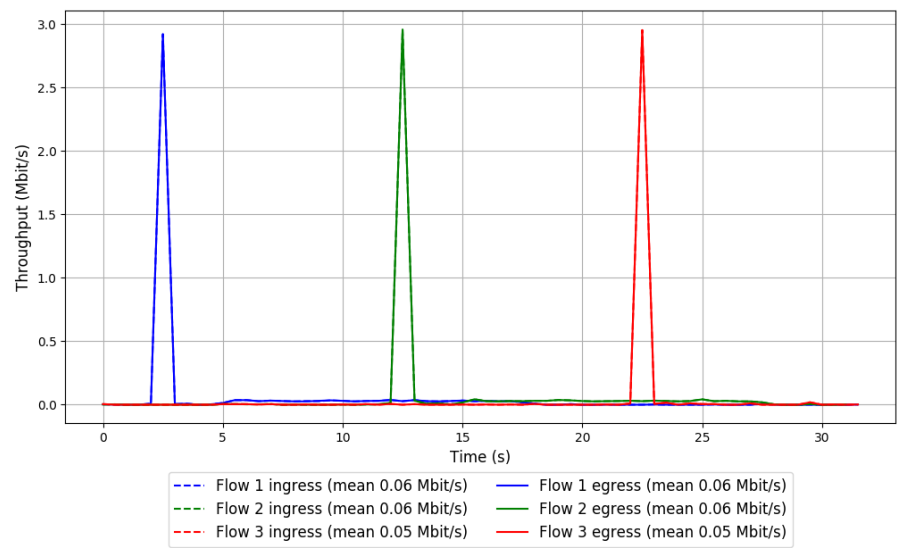
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 3.050 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

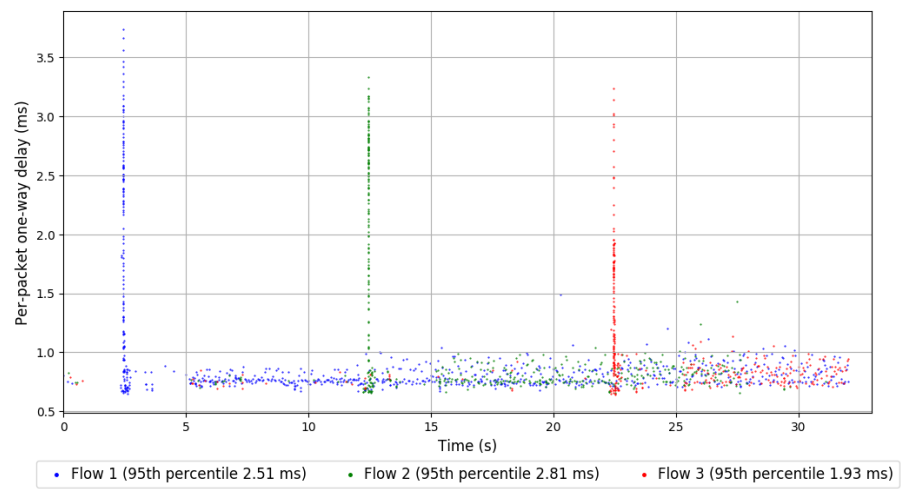
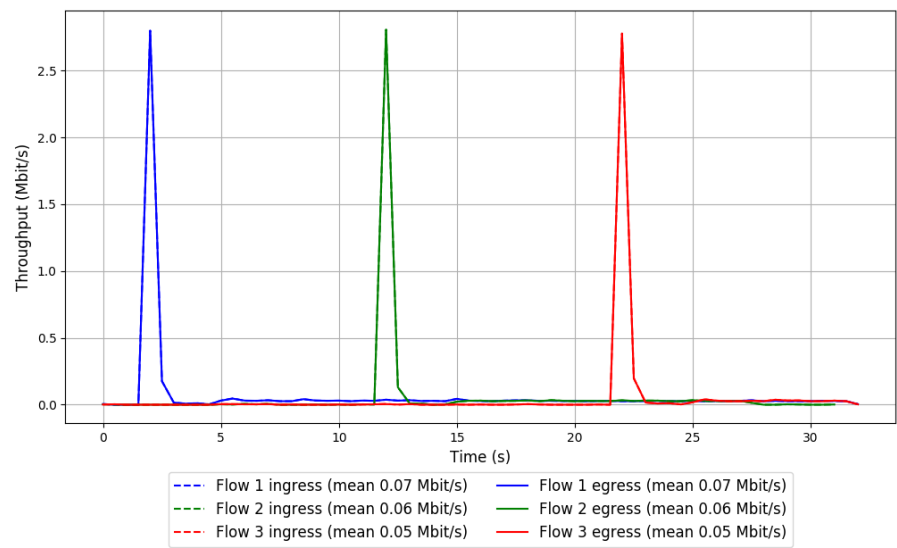


Run 3: Statistics of WebRTC media

Start at: 2018-04-17 13:44:26  
End at: 2018-04-17 13:44:56  
Local clock offset: -5.423 ms  
Remote clock offset: -6.356 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 2.668 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 2.510 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.815 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.928 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

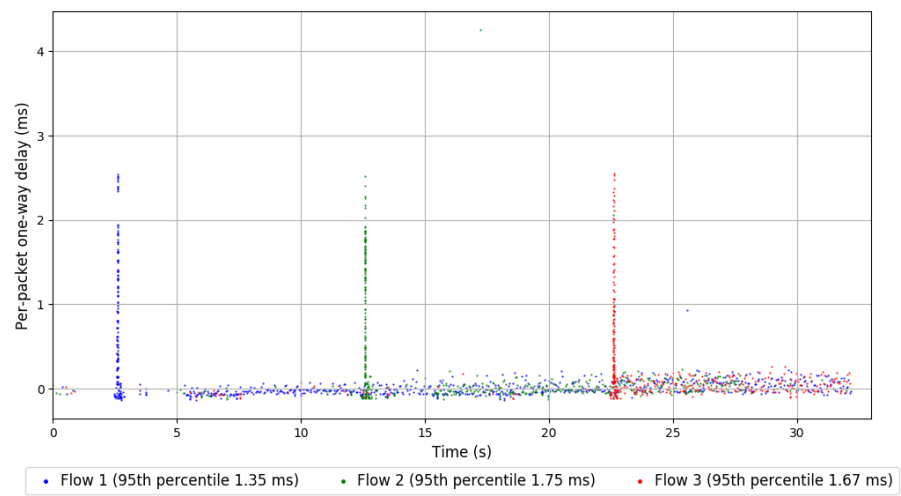
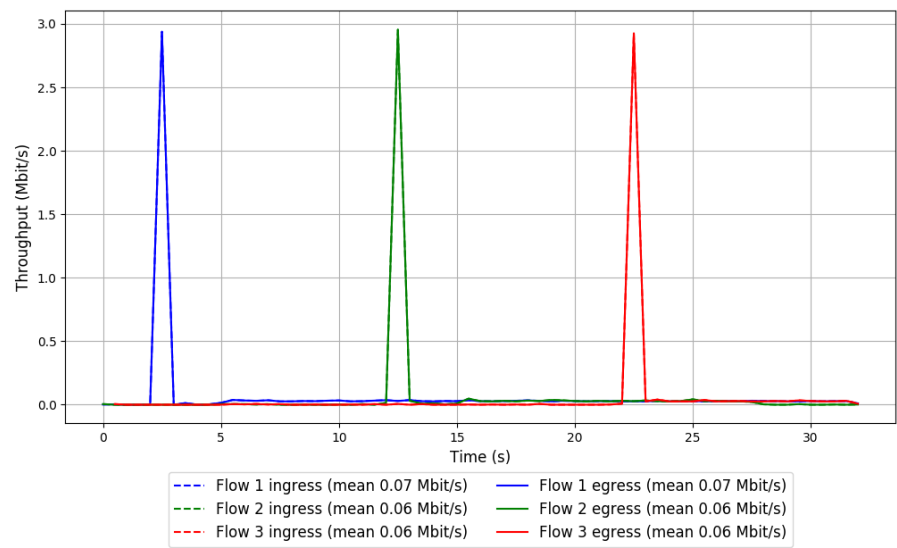


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 14:03:33  
End at: 2018-04-17 14:04:03  
Local clock offset: -6.332 ms  
Remote clock offset: -6.557 ms

```
# Below is generated by plot.py at 2018-04-17 19:35:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 1.608 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 1.353 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 1.745 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 1.671 ms
Loss rate: 0.07%
```

Run 4: Report of WebRTC media — Data Link



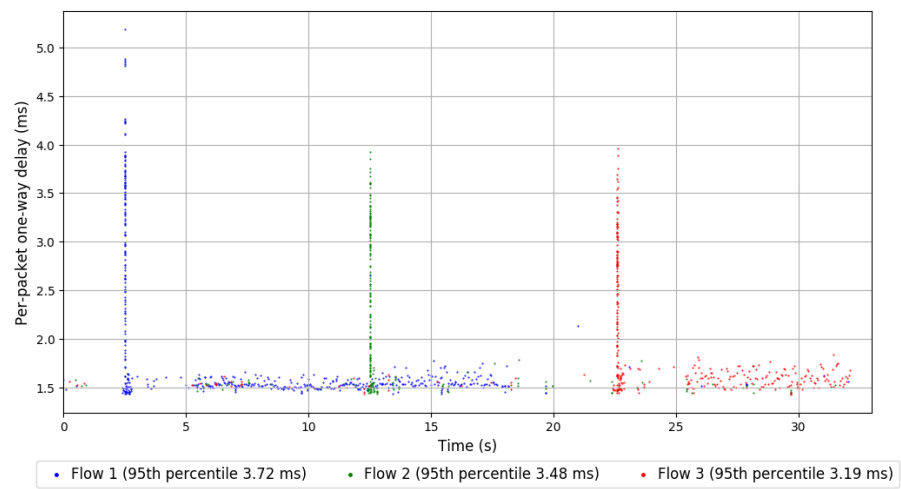
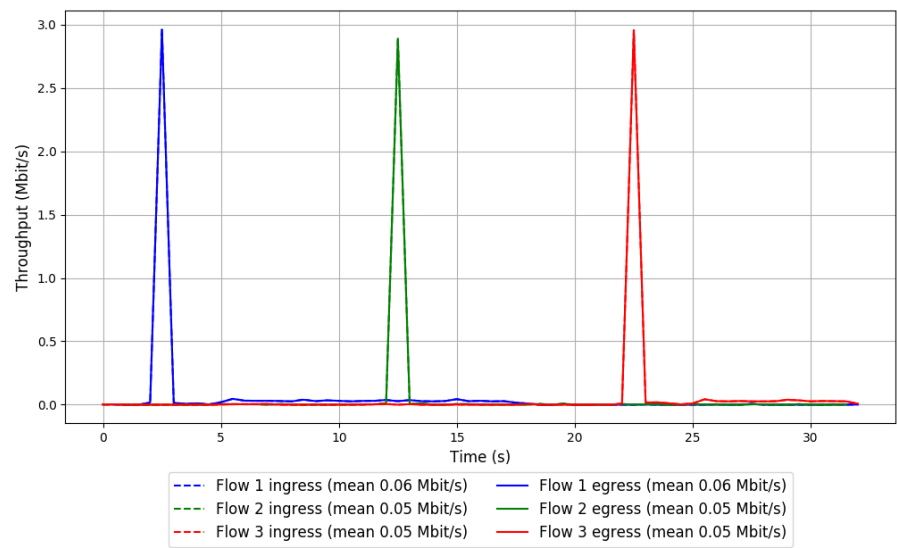


Run 5: Statistics of WebRTC media

Start at: 2018-04-17 14:22:42  
End at: 2018-04-17 14:23:12  
Local clock offset: -4.869 ms  
Remote clock offset: -6.947 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 3.561 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.722 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.481 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.185 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

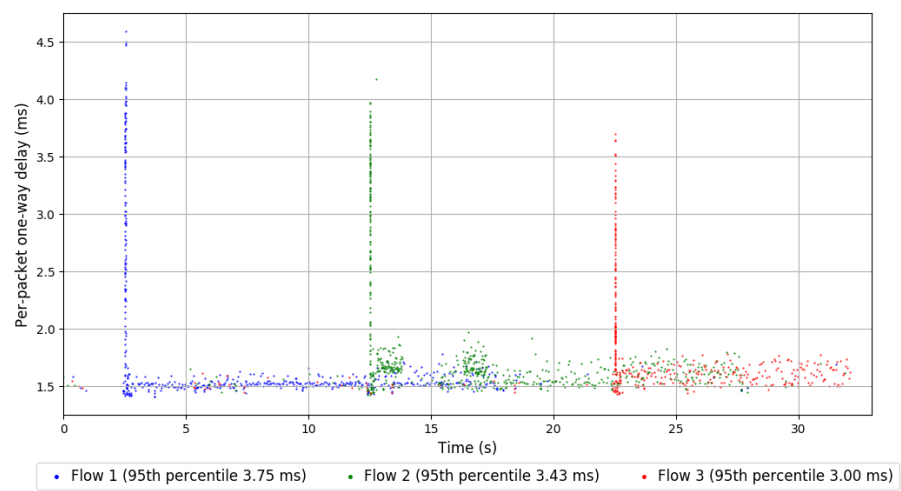
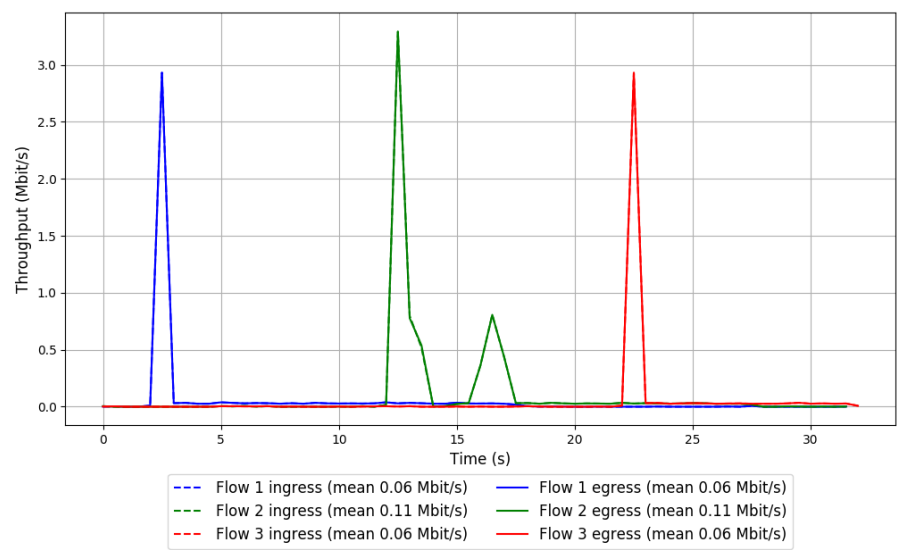


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 14:41:51  
End at: 2018-04-17 14:42:21  
Local clock offset: -5.059 ms  
Remote clock offset: -6.781 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.469 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.746 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 3.433 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.998 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

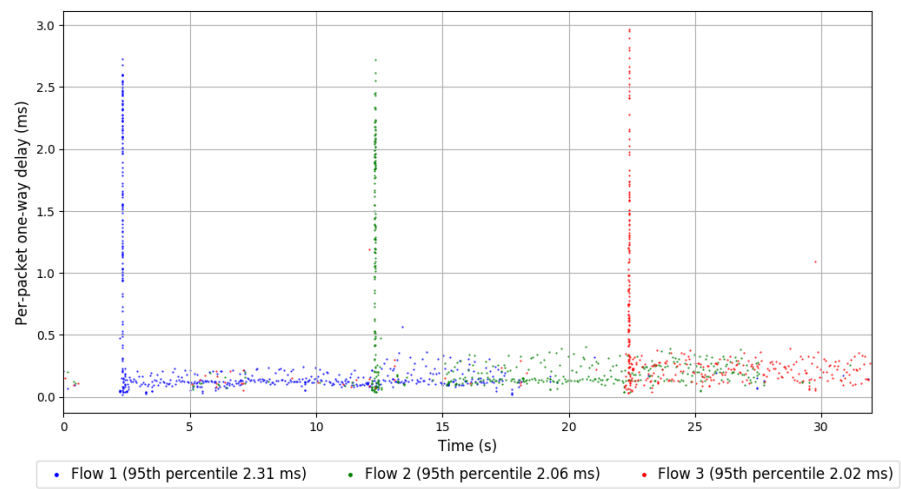
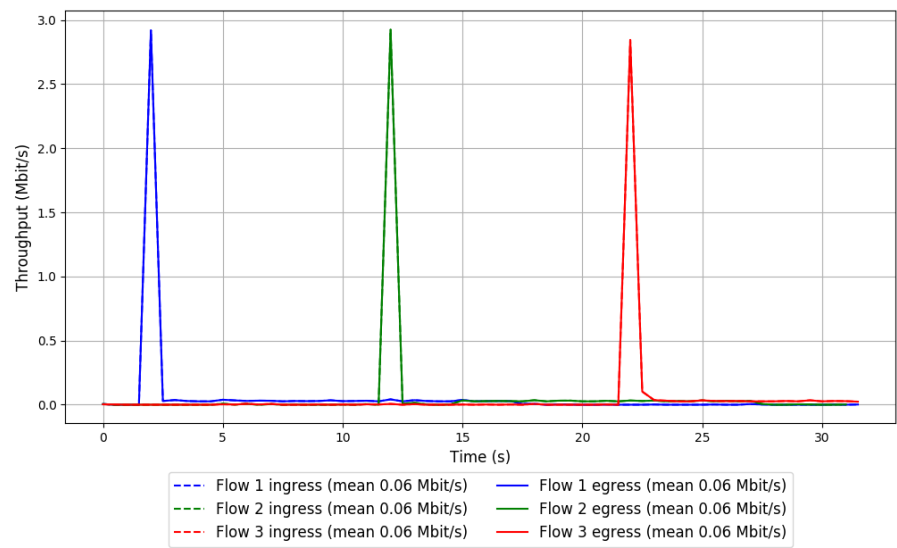


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 15:00:58  
End at: 2018-04-17 15:01:28  
Local clock offset: -6.654 ms  
Remote clock offset: -6.486 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 2.156 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.309 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.056 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.023 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

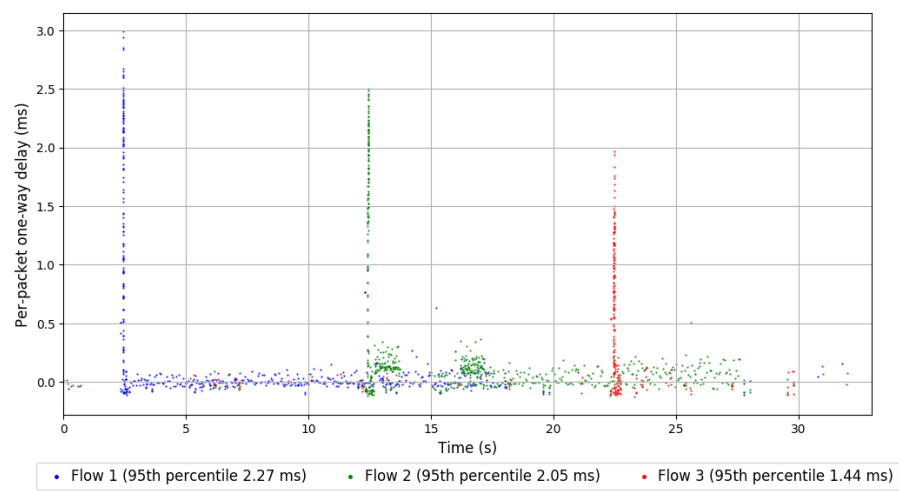
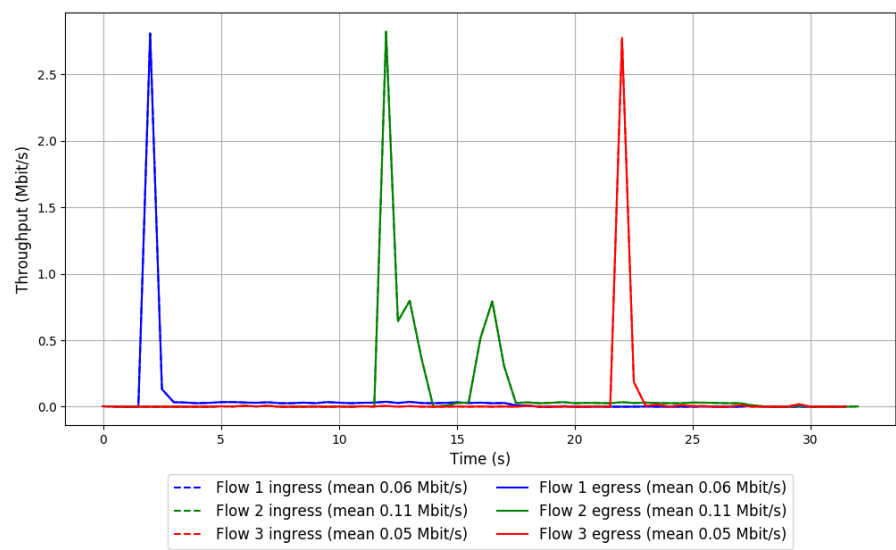


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 15:20:07  
End at: 2018-04-17 15:20:37  
Local clock offset: -6.874 ms  
Remote clock offset: -6.254 ms

```
# Below is generated by plot.py at 2018-04-17 19:35:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.086 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 2.269 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 2.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.438 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link



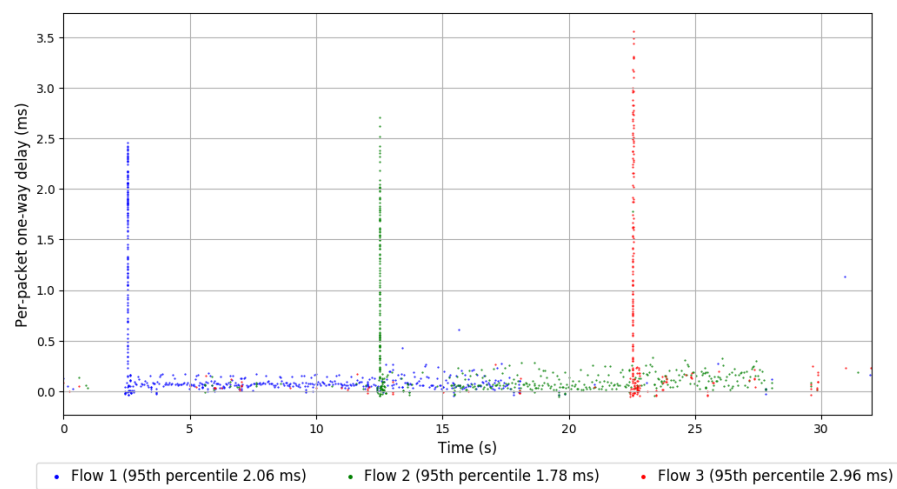
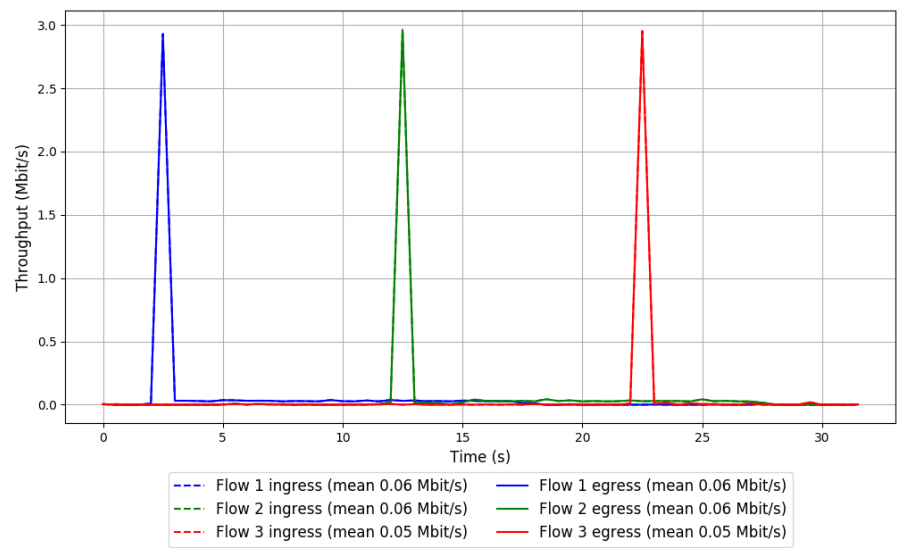


Run 9: Statistics of WebRTC media

Start at: 2018-04-17 15:39:14  
End at: 2018-04-17 15:39:44  
Local clock offset: -6.975 ms  
Remote clock offset: -6.764 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 2.220 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.063 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 1.778 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 2.956 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

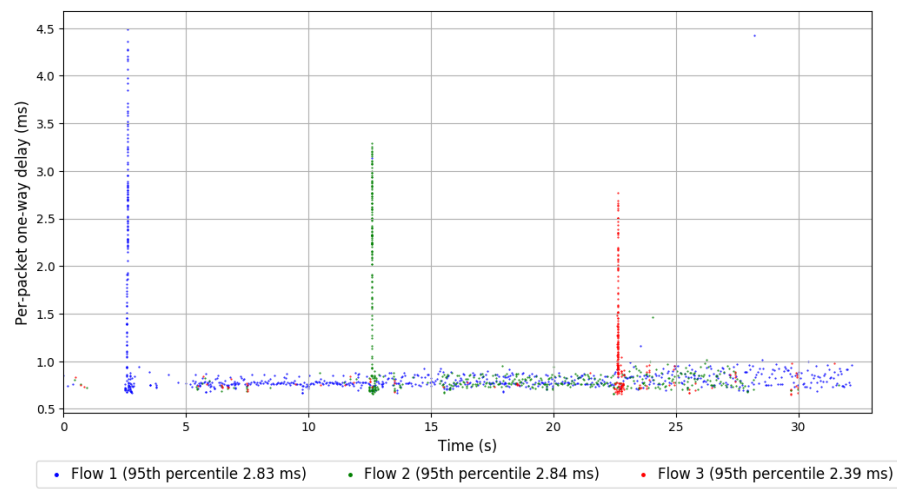
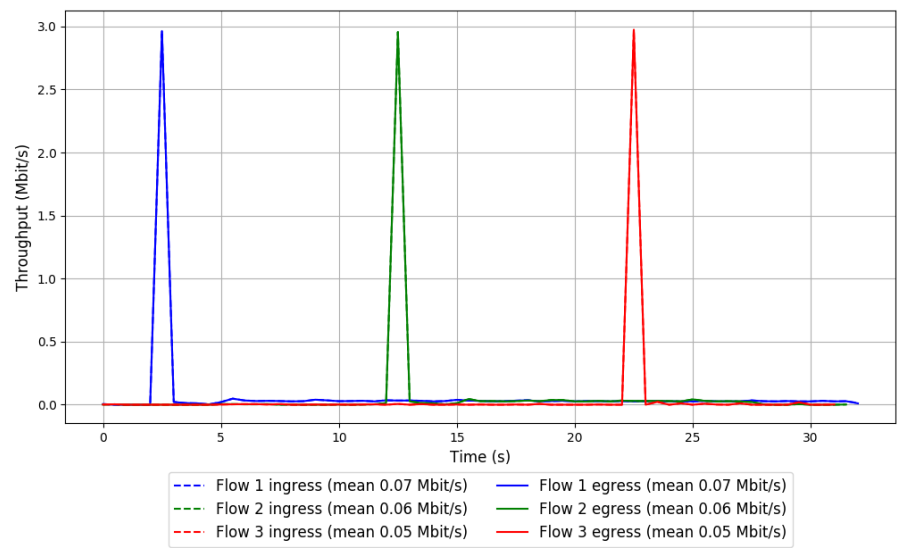


Run 10: Statistics of WebRTC media

Start at: 2018-04-17 15:58:22  
End at: 2018-04-17 15:58:52  
Local clock offset: -6.308 ms  
Remote clock offset: -6.977 ms

# Below is generated by plot.py at 2018-04-17 19:35:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 2.766 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 2.833 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.843 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 2.391 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

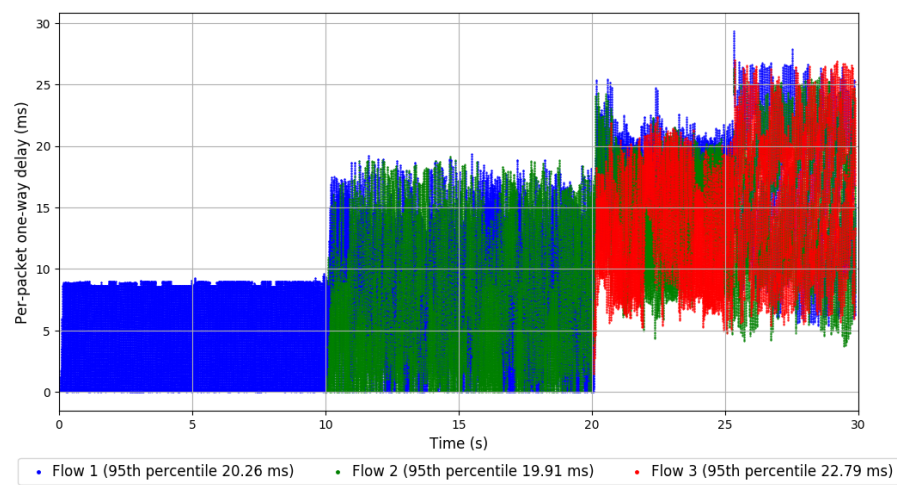
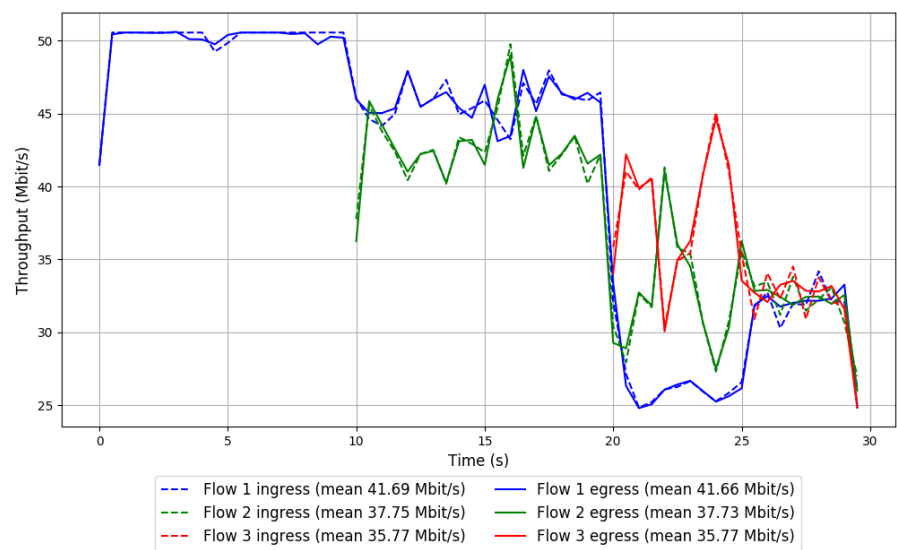


Run 1: Statistics of Sprout

Start at: 2018-04-17 13:08:23  
End at: 2018-04-17 13:08:53  
Local clock offset: -6.542 ms  
Remote clock offset: -6.492 ms

# Below is generated by plot.py at 2018-04-17 19:36:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.51 Mbit/s  
95th percentile per-packet one-way delay: 20.663 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 41.66 Mbit/s  
95th percentile per-packet one-way delay: 20.261 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 37.73 Mbit/s  
95th percentile per-packet one-way delay: 19.913 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 35.77 Mbit/s  
95th percentile per-packet one-way delay: 22.791 ms  
Loss rate: 0.05%

Run 1: Report of Sprout — Data Link

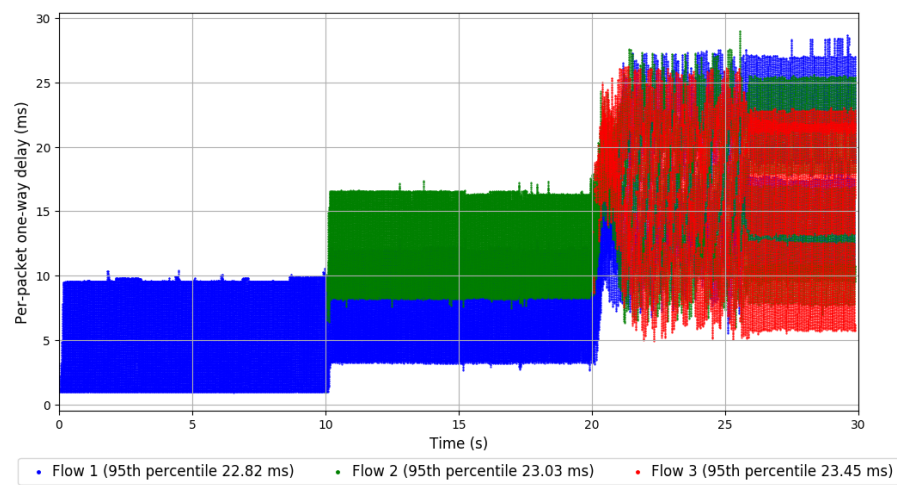
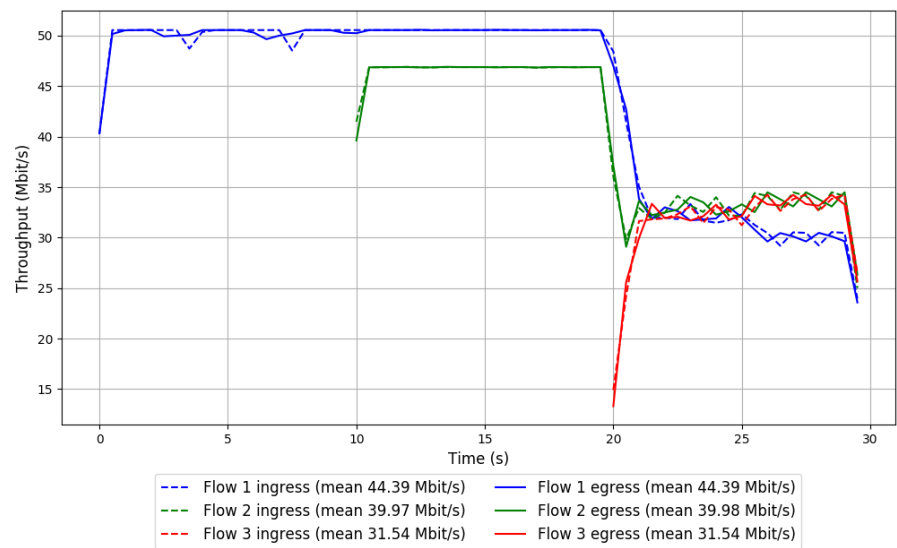


Run 2: Statistics of Sprout

Start at: 2018-04-17 13:27:28  
End at: 2018-04-17 13:27:58  
Local clock offset: -5.532 ms  
Remote clock offset: -6.212 ms

# Below is generated by plot.py at 2018-04-17 19:36:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.37 Mbit/s  
95th percentile per-packet one-way delay: 23.033 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 44.39 Mbit/s  
95th percentile per-packet one-way delay: 22.815 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 39.98 Mbit/s  
95th percentile per-packet one-way delay: 23.029 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 31.54 Mbit/s  
95th percentile per-packet one-way delay: 23.454 ms  
Loss rate: 0.29%

Run 2: Report of Sprout — Data Link



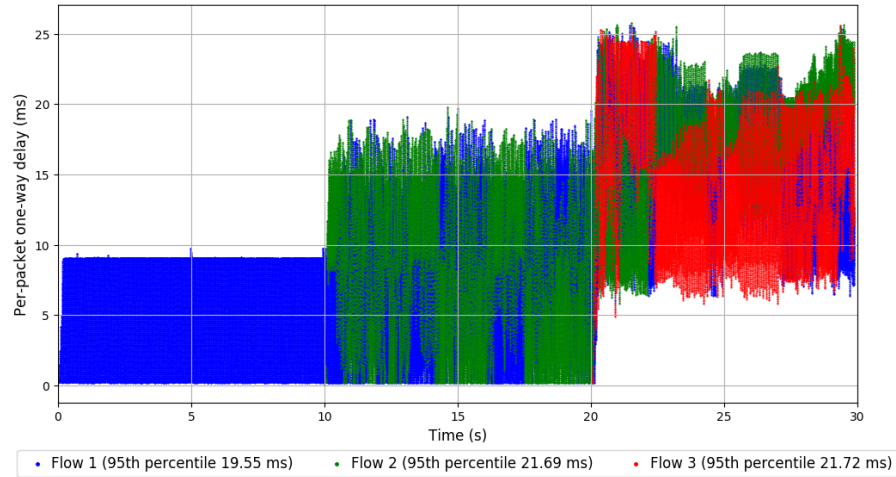
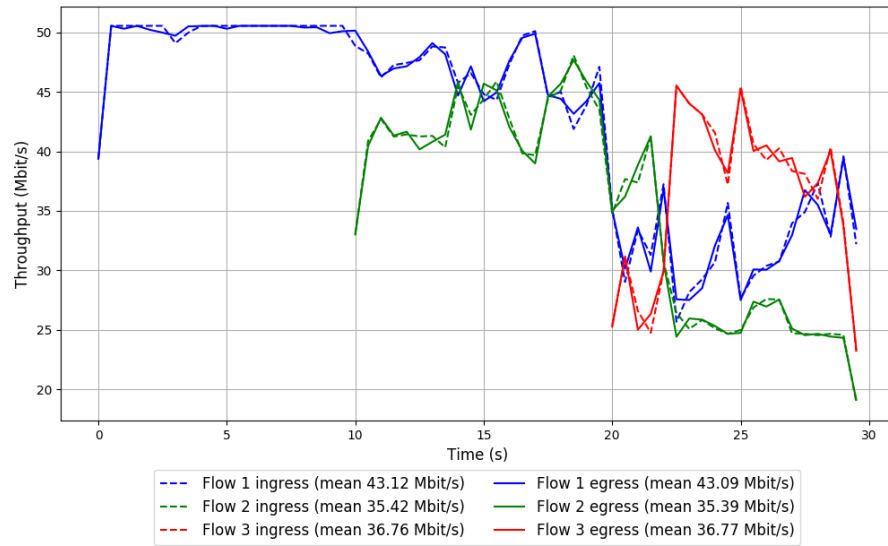


### Run 3: Statistics of Sprout

Start at: 2018-04-17 13:46:38  
End at: 2018-04-17 13:47:08  
Local clock offset: -6.132 ms  
Remote clock offset: -6.477 ms

```
# Below is generated by plot.py at 2018-04-17 19:36:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.72 Mbit/s
95th percentile per-packet one-way delay: 20.732 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 43.09 Mbit/s
95th percentile per-packet one-way delay: 19.547 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 35.39 Mbit/s
95th percentile per-packet one-way delay: 21.692 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 36.77 Mbit/s
95th percentile per-packet one-way delay: 21.716 ms
Loss rate: 0.14%
```

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

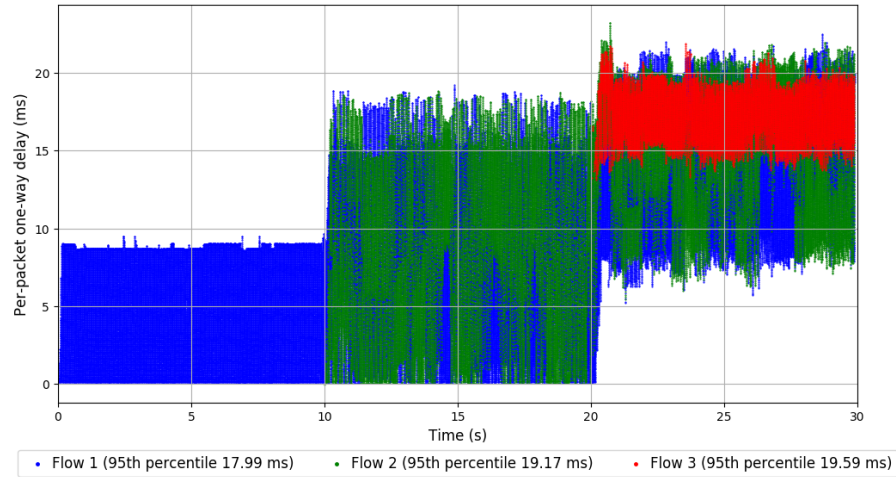
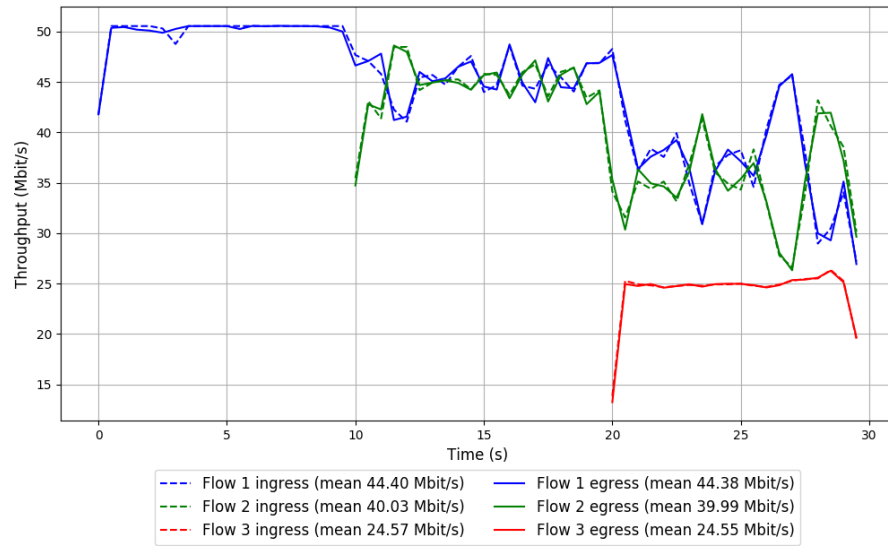


#### Run 4: Statistics of Sprout

Start at: 2018-04-17 14:05:45  
End at: 2018-04-17 14:06:15  
Local clock offset: -6.329 ms  
Remote clock offset: -6.559 ms

```
# Below is generated by plot.py at 2018-04-17 19:36:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.05 Mbit/s
95th percentile per-packet one-way delay: 18.979 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.38 Mbit/s
95th percentile per-packet one-way delay: 17.993 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.99 Mbit/s
95th percentile per-packet one-way delay: 19.171 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 19.594 ms
Loss rate: 0.22%
```

#### Run 4: Report of Sprout — Data Link

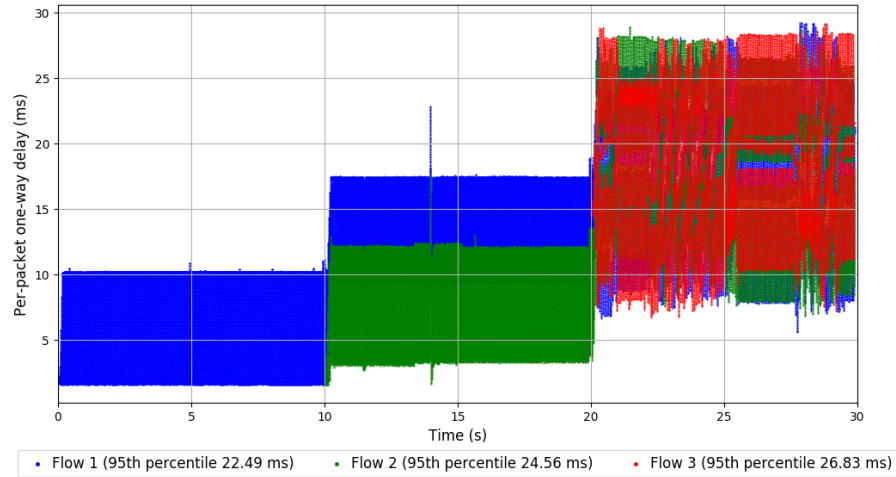
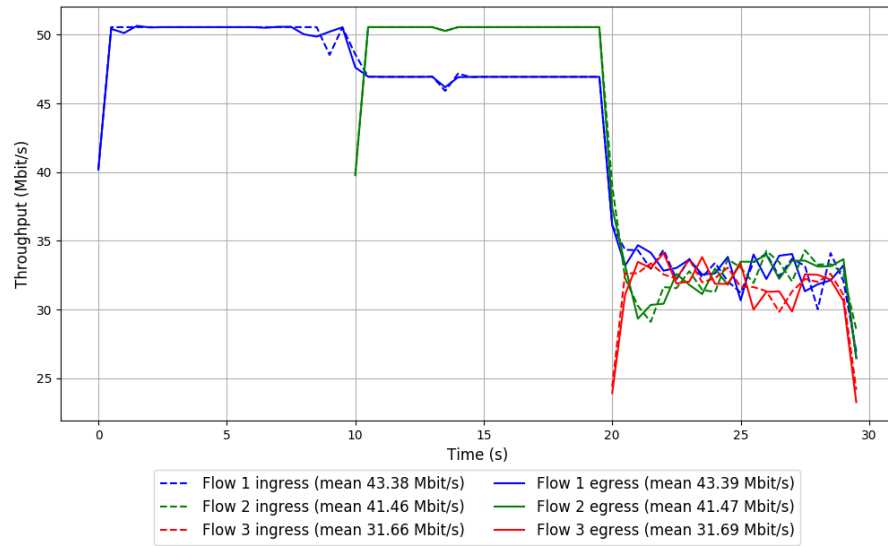


Run 5: Statistics of Sprout

Start at: 2018-04-17 14:24:54  
End at: 2018-04-17 14:25:24  
Local clock offset: -4.869 ms  
Remote clock offset: -6.947 ms

```
# Below is generated by plot.py at 2018-04-17 19:36:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.39 Mbit/s
95th percentile per-packet one-way delay: 24.496 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 43.39 Mbit/s
95th percentile per-packet one-way delay: 22.492 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 24.564 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 26.833 ms
Loss rate: 0.42%
```

## Run 5: Report of Sprout — Data Link

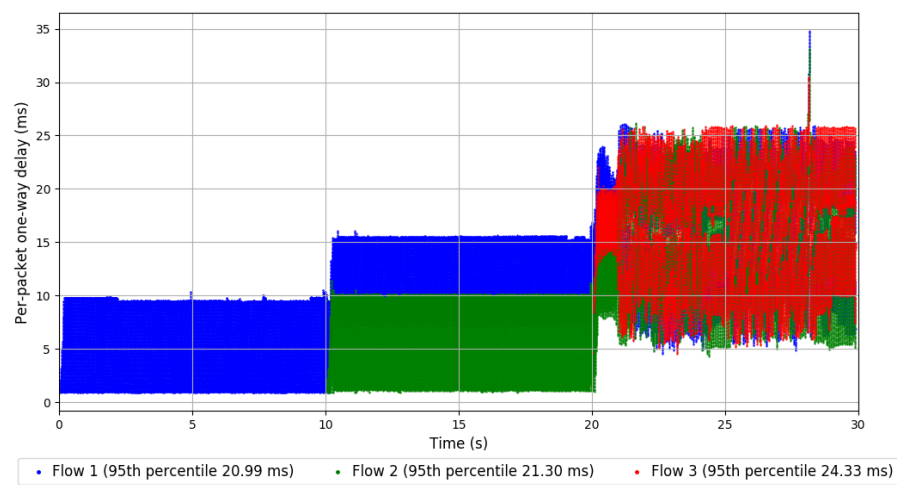
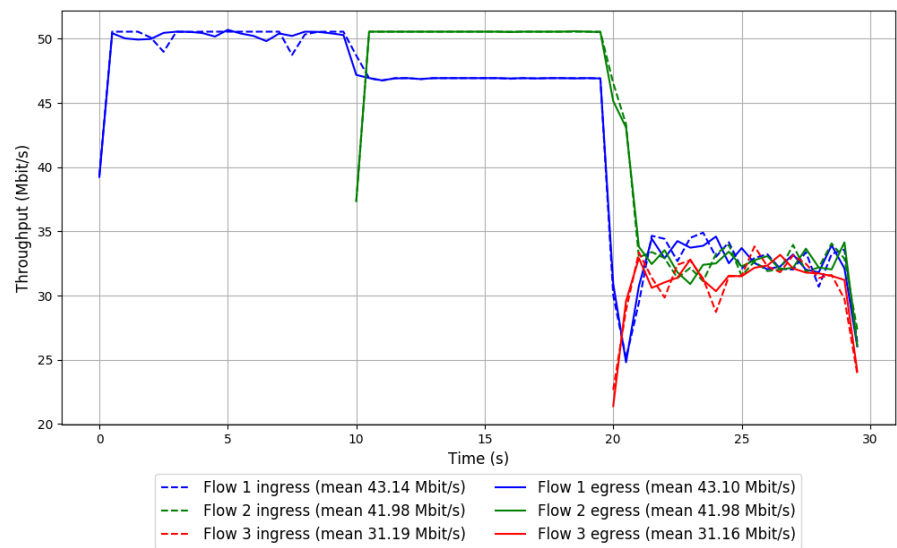


Run 6: Statistics of Sprout

Start at: 2018-04-17 14:44:03  
End at: 2018-04-17 14:44:33  
Local clock offset: -5.832 ms  
Remote clock offset: -6.797 ms

# Below is generated by plot.py at 2018-04-17 19:36:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.26 Mbit/s  
95th percentile per-packet one-way delay: 22.126 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 43.10 Mbit/s  
95th percentile per-packet one-way delay: 20.991 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 41.98 Mbit/s  
95th percentile per-packet one-way delay: 21.302 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.16 Mbit/s  
95th percentile per-packet one-way delay: 24.327 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



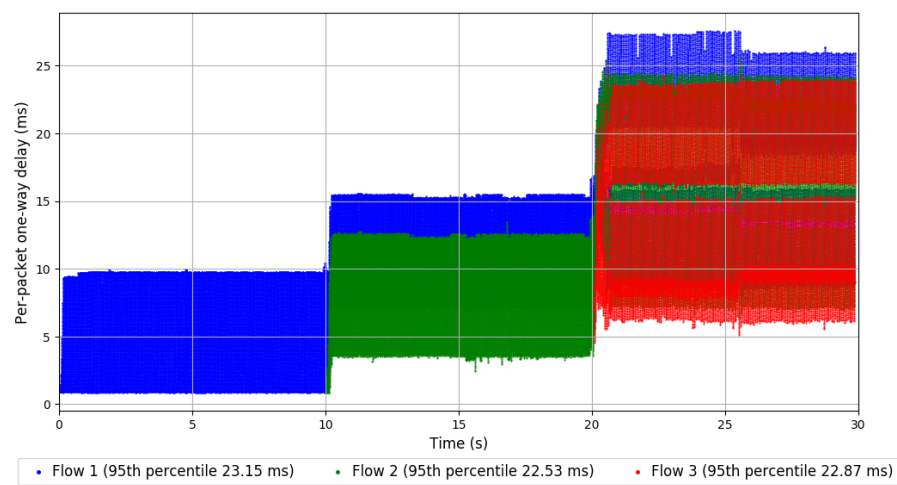
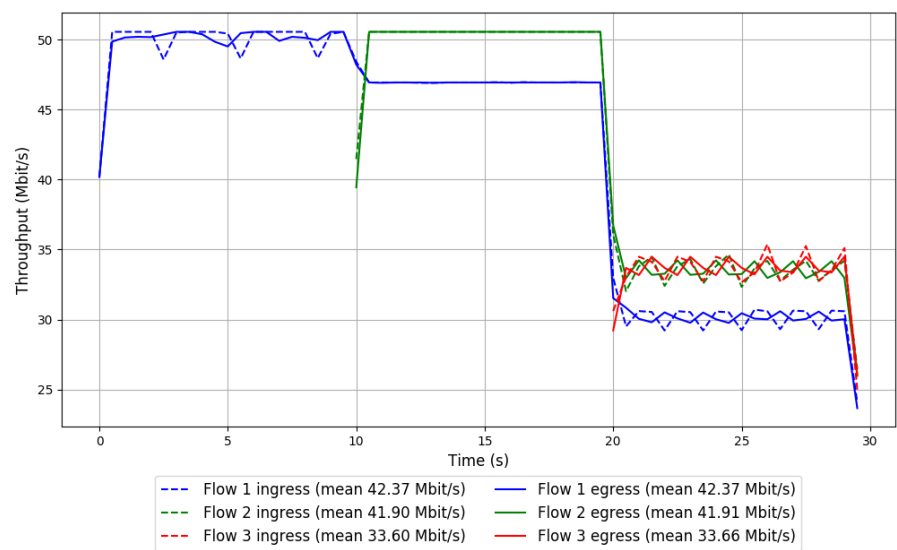


Run 7: Statistics of Sprout

Start at: 2018-04-17 15:03:10  
End at: 2018-04-17 15:03:40  
Local clock offset: -5.944 ms  
Remote clock offset: -6.382 ms

# Below is generated by plot.py at 2018-04-17 19:36:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.34 Mbit/s  
95th percentile per-packet one-way delay: 22.800 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 42.37 Mbit/s  
95th percentile per-packet one-way delay: 23.149 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 41.91 Mbit/s  
95th percentile per-packet one-way delay: 22.528 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 33.66 Mbit/s  
95th percentile per-packet one-way delay: 22.868 ms  
Loss rate: 0.09%

Run 7: Report of Sprout — Data Link

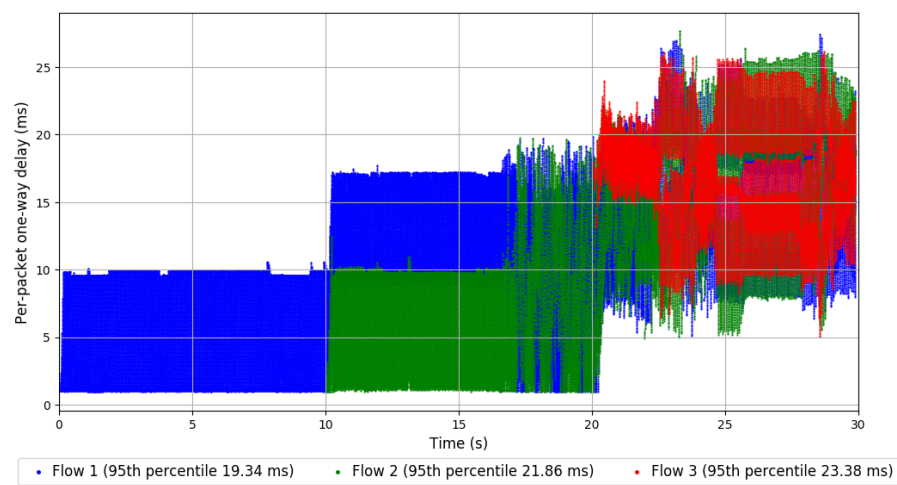
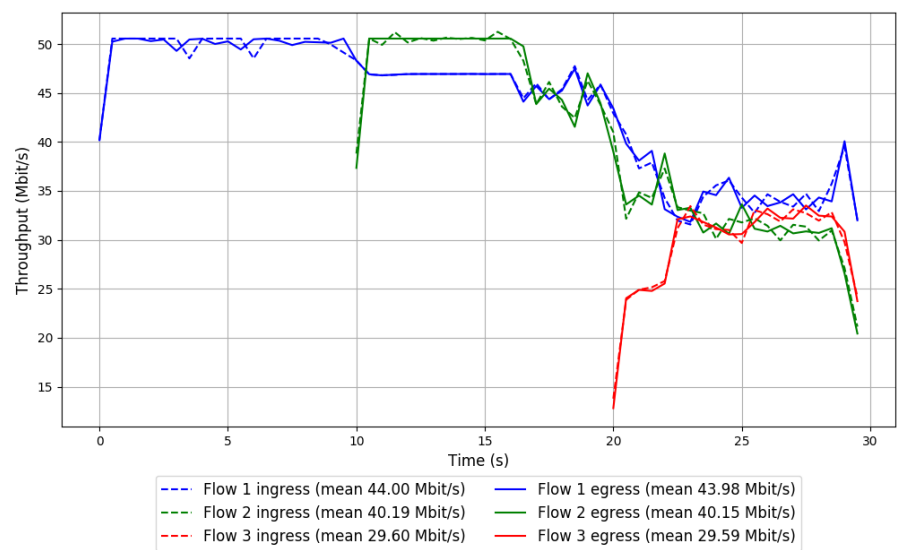


Run 8: Statistics of Sprout

Start at: 2018-04-17 15:22:19  
End at: 2018-04-17 15:22:49  
Local clock offset: -6.052 ms  
Remote clock offset: -6.392 ms

# Below is generated by plot.py at 2018-04-17 19:36:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.43 Mbit/s  
95th percentile per-packet one-way delay: 21.255 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 43.98 Mbit/s  
95th percentile per-packet one-way delay: 19.339 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.15 Mbit/s  
95th percentile per-packet one-way delay: 21.865 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 29.59 Mbit/s  
95th percentile per-packet one-way delay: 23.384 ms  
Loss rate: 0.08%

Run 8: Report of Sprout — Data Link

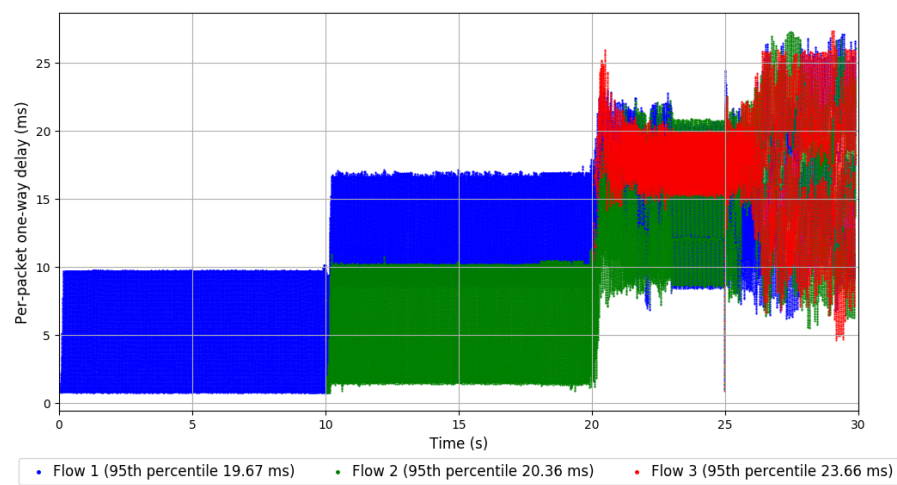
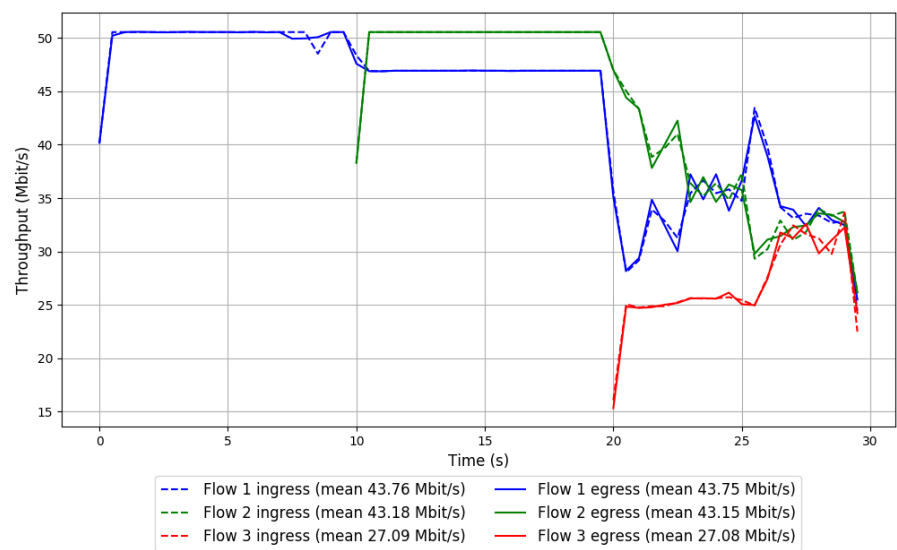


Run 9: Statistics of Sprout

Start at: 2018-04-17 15:41:26  
End at: 2018-04-17 15:41:56  
Local clock offset: -6.273 ms  
Remote clock offset: -6.731 ms

# Below is generated by plot.py at 2018-04-17 19:37:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.35 Mbit/s  
95th percentile per-packet one-way delay: 20.625 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 43.75 Mbit/s  
95th percentile per-packet one-way delay: 19.669 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 43.15 Mbit/s  
95th percentile per-packet one-way delay: 20.365 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 27.08 Mbit/s  
95th percentile per-packet one-way delay: 23.662 ms  
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

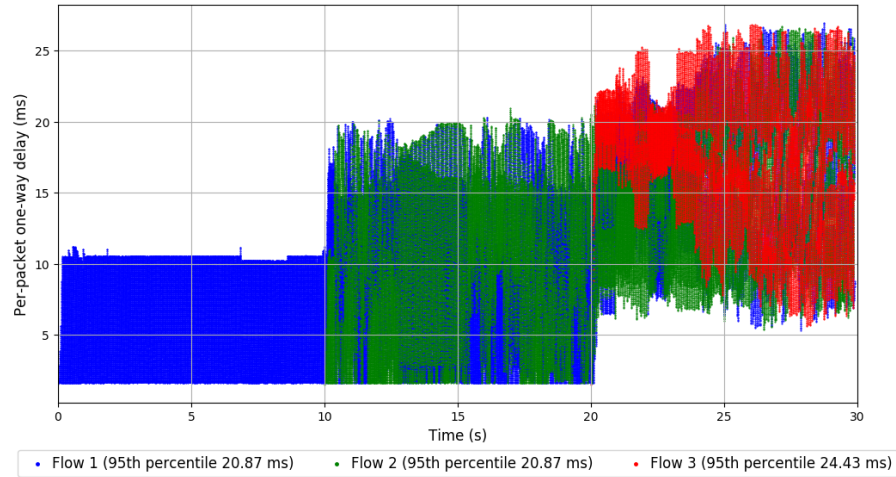
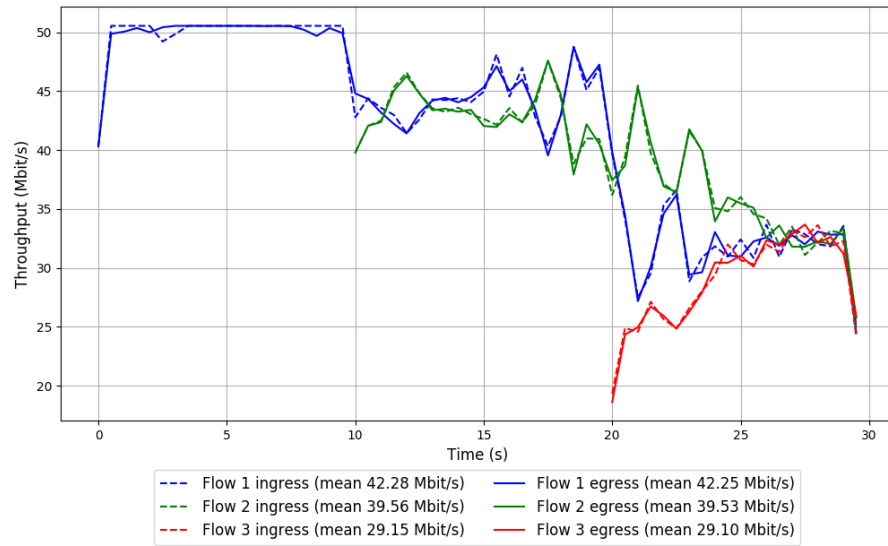


Run 10: Statistics of Sprout

Start at: 2018-04-17 16:00:34  
End at: 2018-04-17 16:01:04  
Local clock offset: -5.54 ms  
Remote clock offset: -6.995 ms

```
# Below is generated by plot.py at 2018-04-17 19:37:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.15 Mbit/s
95th percentile per-packet one-way delay: 21.958 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 42.25 Mbit/s
95th percentile per-packet one-way delay: 20.867 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 20.870 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 29.10 Mbit/s
95th percentile per-packet one-way delay: 24.429 ms
Loss rate: 0.00%
```

## Run 10: Report of Sprout — Data Link



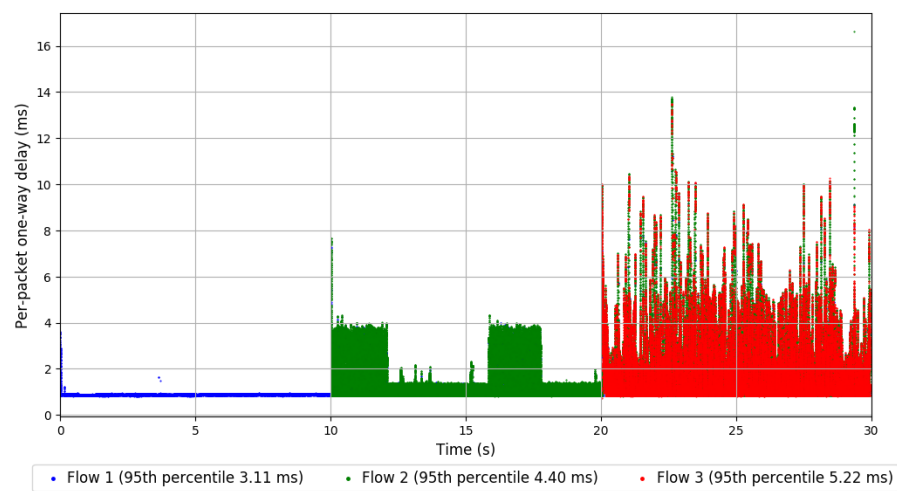
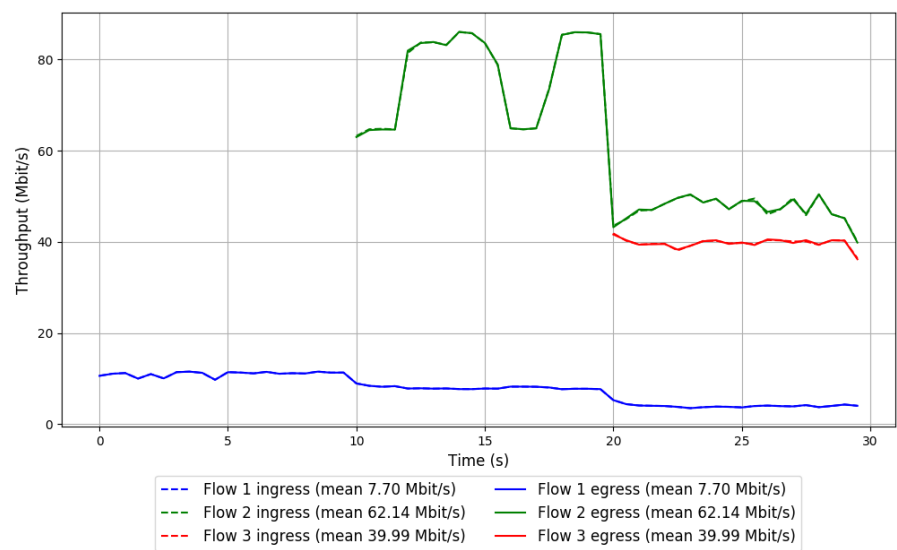


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 13:18:25  
End at: 2018-04-17 13:18:55  
Local clock offset: -5.721 ms  
Remote clock offset: -6.319 ms

# Below is generated by plot.py at 2018-04-17 19:37:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.33 Mbit/s  
95th percentile per-packet one-way delay: 4.565 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 7.70 Mbit/s  
95th percentile per-packet one-way delay: 3.112 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 62.14 Mbit/s  
95th percentile per-packet one-way delay: 4.400 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 39.99 Mbit/s  
95th percentile per-packet one-way delay: 5.216 ms  
Loss rate: 0.04%

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

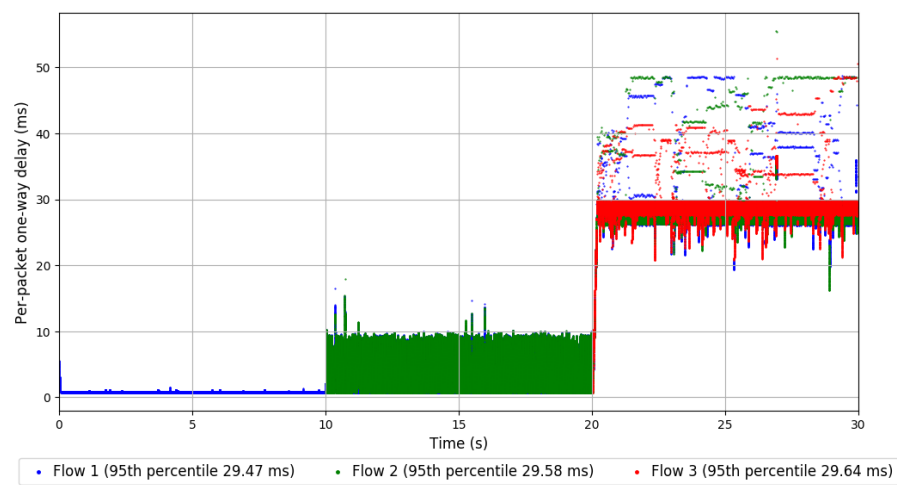
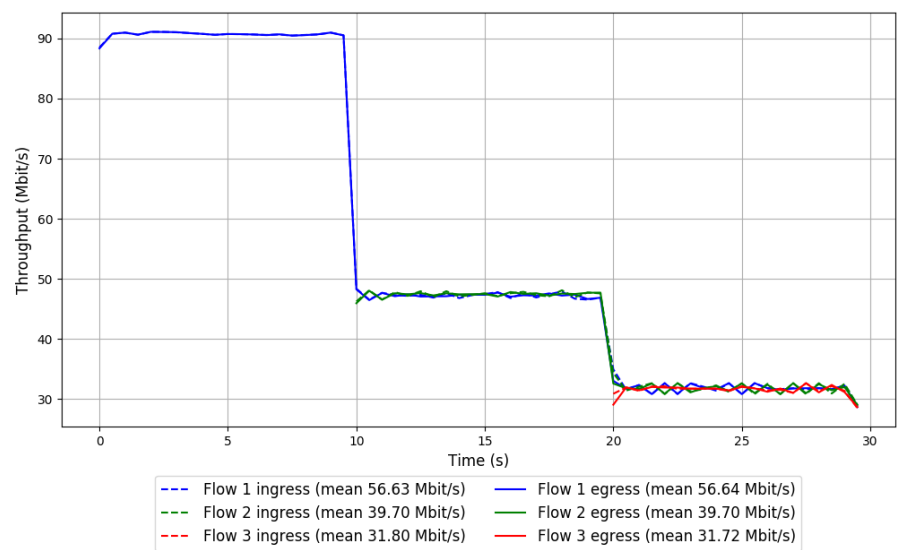


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 13:37:31  
End at: 2018-04-17 13:38:01  
Local clock offset: -5.527 ms  
Remote clock offset: -6.034 ms

# Below is generated by plot.py at 2018-04-17 19:38:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.55 Mbit/s  
95th percentile per-packet one-way delay: 29.567 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 56.64 Mbit/s  
95th percentile per-packet one-way delay: 29.468 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 39.70 Mbit/s  
95th percentile per-packet one-way delay: 29.581 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.72 Mbit/s  
95th percentile per-packet one-way delay: 29.636 ms  
Loss rate: 0.29%

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

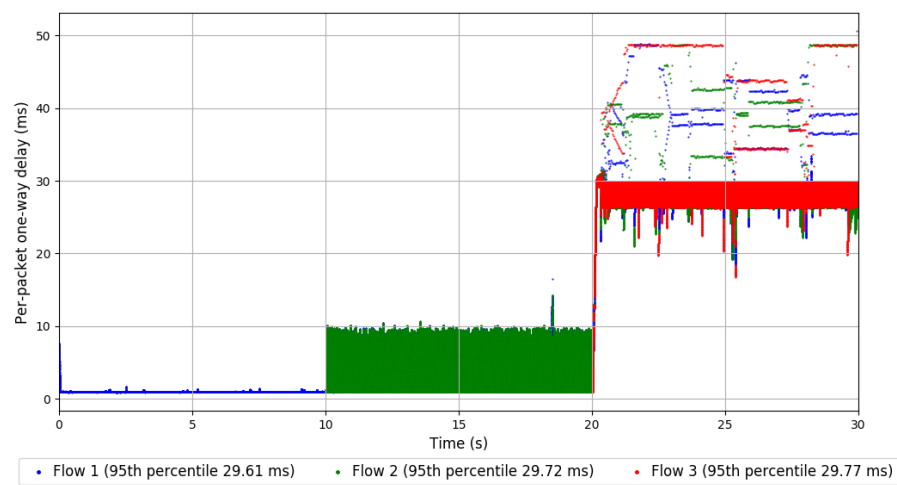
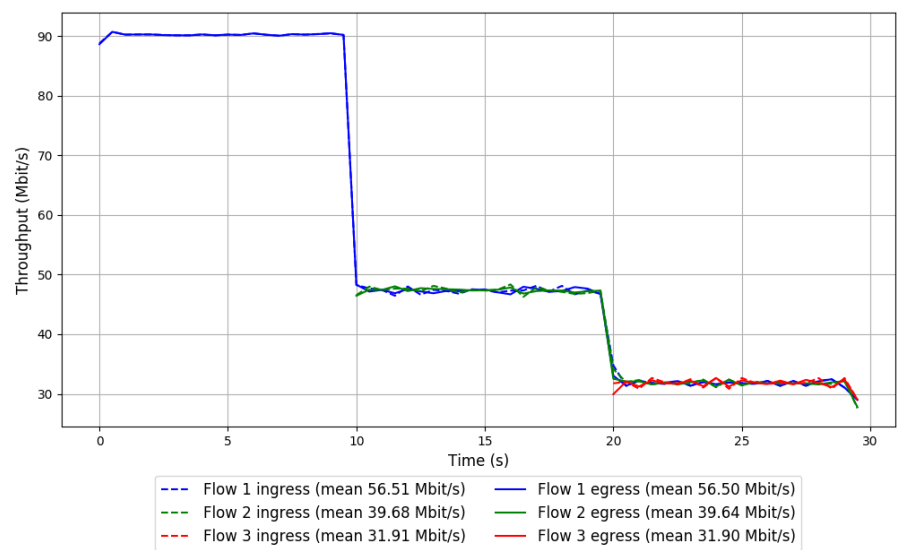


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 13:56:40  
End at: 2018-04-17 13:57:10  
Local clock offset: -5.357 ms  
Remote clock offset: -6.579 ms

# Below is generated by plot.py at 2018-04-17 19:39:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.45 Mbit/s  
95th percentile per-packet one-way delay: 29.709 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 56.50 Mbit/s  
95th percentile per-packet one-way delay: 29.611 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 39.64 Mbit/s  
95th percentile per-packet one-way delay: 29.720 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.90 Mbit/s  
95th percentile per-packet one-way delay: 29.770 ms  
Loss rate: 0.29%

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

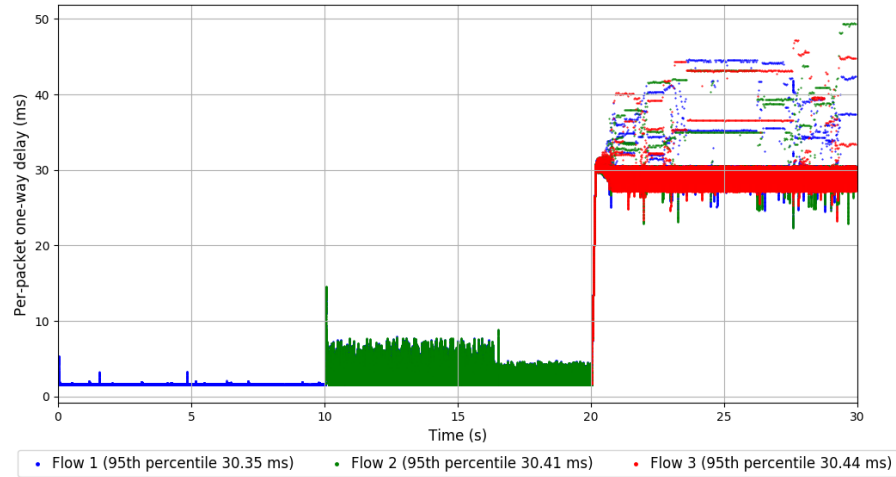
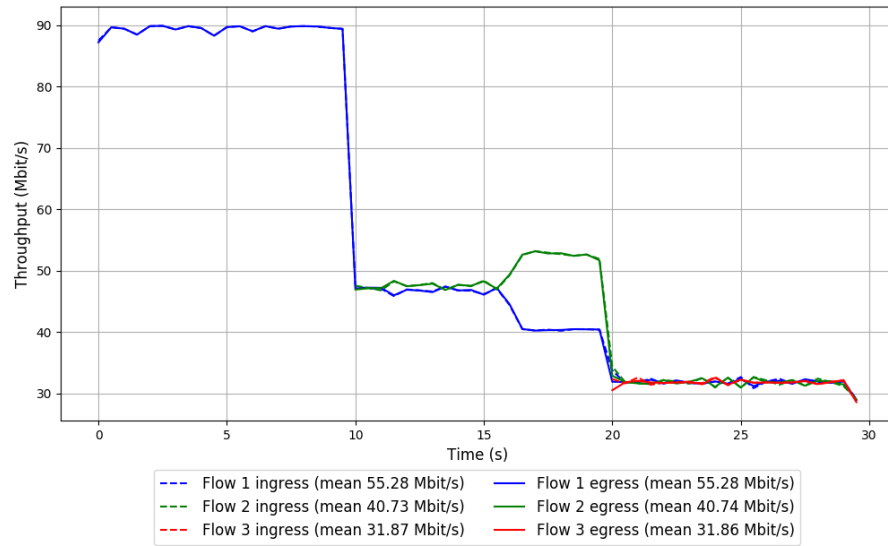


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 14:15:48  
End at: 2018-04-17 14:16:18  
Local clock offset: -4.847 ms  
Remote clock offset: -6.805 ms

# Below is generated by plot.py at 2018-04-17 19:39:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.91 Mbit/s  
95th percentile per-packet one-way delay: 30.394 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 55.28 Mbit/s  
95th percentile per-packet one-way delay: 30.347 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.74 Mbit/s  
95th percentile per-packet one-way delay: 30.411 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 31.86 Mbit/s  
95th percentile per-packet one-way delay: 30.438 ms  
Loss rate: 0.30%

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



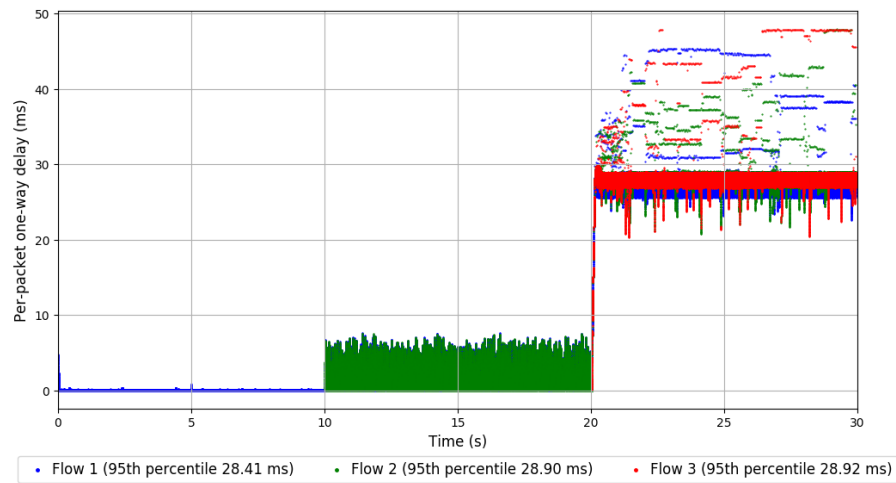
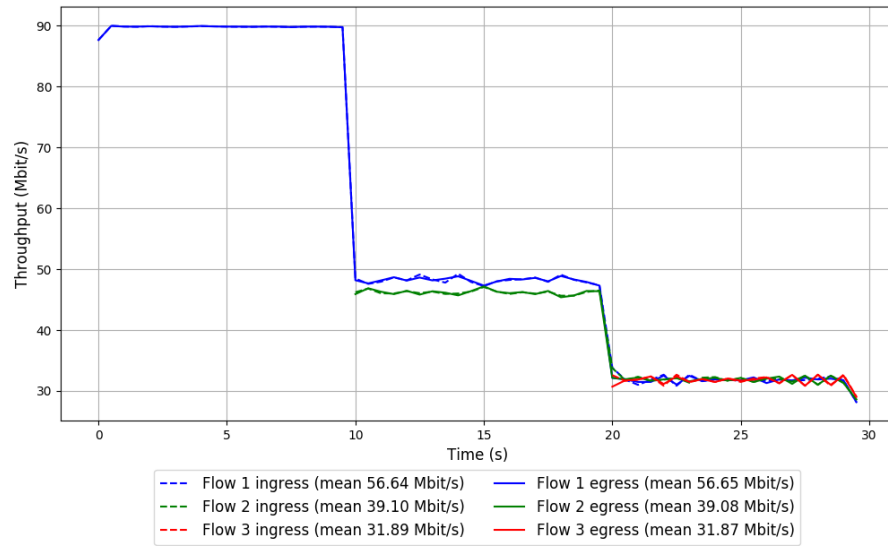


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 14:34:57  
End at: 2018-04-17 14:35:27  
Local clock offset: -6.528 ms  
Remote clock offset: -6.853 ms

# Below is generated by plot.py at 2018-04-17 19:39:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.21 Mbit/s  
95th percentile per-packet one-way delay: 28.871 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 56.65 Mbit/s  
95th percentile per-packet one-way delay: 28.409 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 39.08 Mbit/s  
95th percentile per-packet one-way delay: 28.897 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.87 Mbit/s  
95th percentile per-packet one-way delay: 28.922 ms  
Loss rate: 0.29%

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

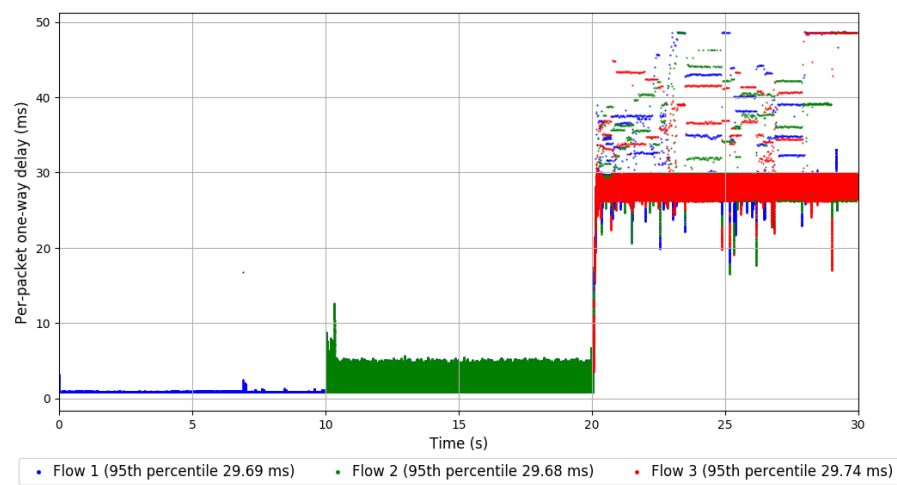
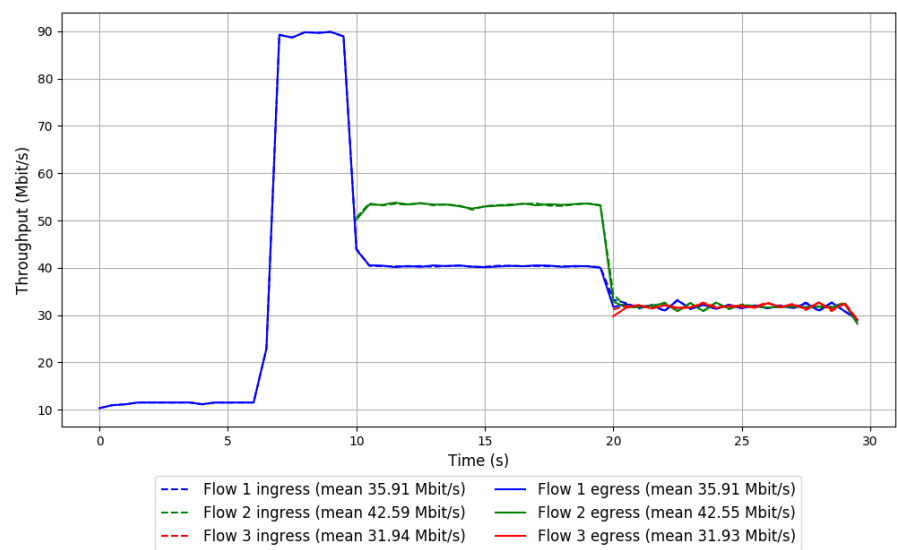


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 14:54:05  
End at: 2018-04-17 14:54:35  
Local clock offset: -5.89 ms  
Remote clock offset: -6.532 ms

# Below is generated by plot.py at 2018-04-17 19:39:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.78 Mbit/s  
95th percentile per-packet one-way delay: 29.699 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 35.91 Mbit/s  
95th percentile per-packet one-way delay: 29.690 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 42.55 Mbit/s  
95th percentile per-packet one-way delay: 29.675 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 31.93 Mbit/s  
95th percentile per-packet one-way delay: 29.741 ms  
Loss rate: 0.29%

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

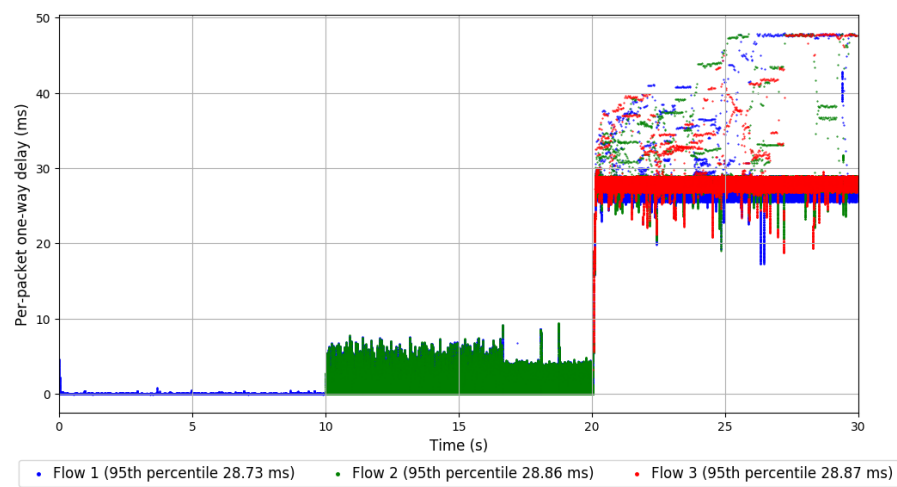
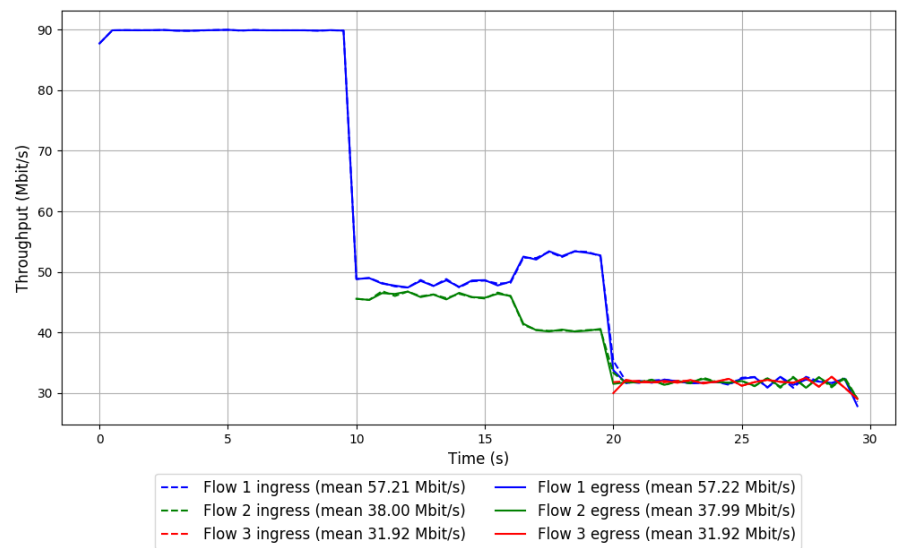


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 15:13:12  
End at: 2018-04-17 15:13:42  
Local clock offset: -6.899 ms  
Remote clock offset: -6.263 ms

# Below is generated by plot.py at 2018-04-17 19:39:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.06 Mbit/s  
95th percentile per-packet one-way delay: 28.827 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 57.22 Mbit/s  
95th percentile per-packet one-way delay: 28.727 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 37.99 Mbit/s  
95th percentile per-packet one-way delay: 28.858 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.92 Mbit/s  
95th percentile per-packet one-way delay: 28.873 ms  
Loss rate: 0.29%

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

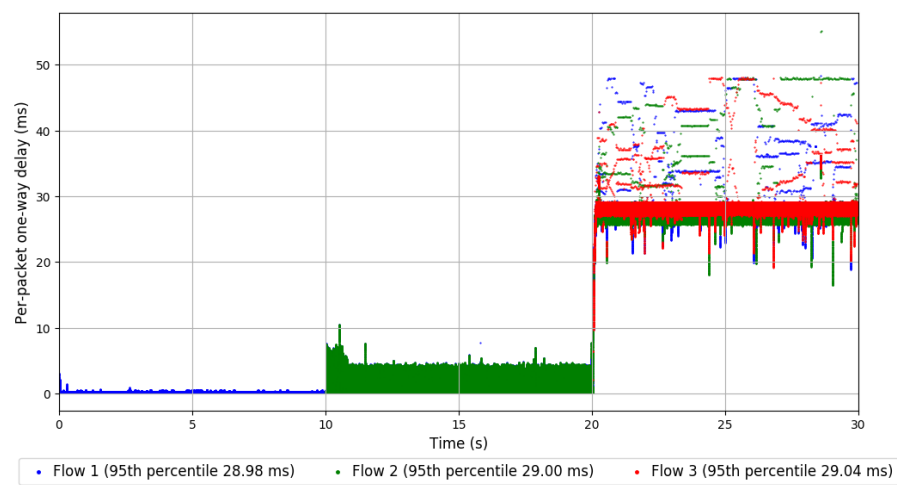
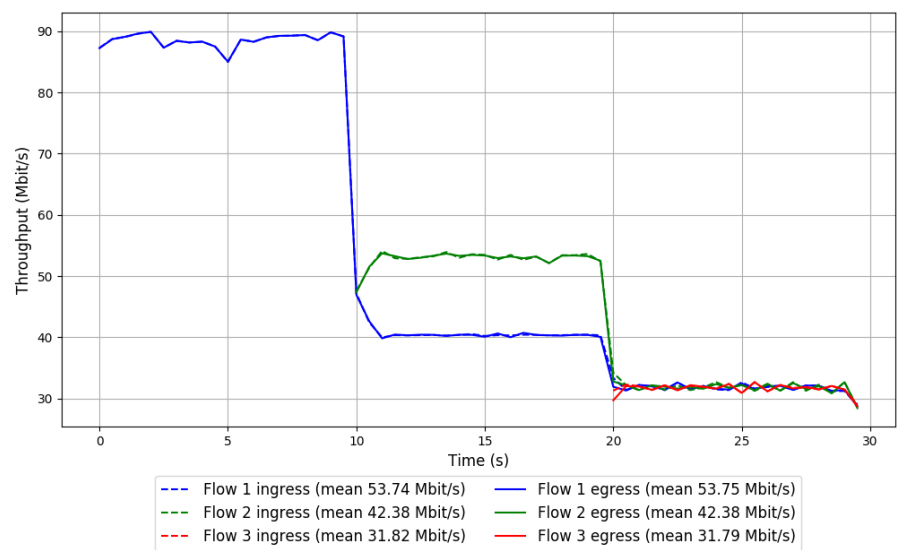


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 15:32:21  
End at: 2018-04-17 15:32:51  
Local clock offset: -6.891 ms  
Remote clock offset: -6.644 ms

# Below is generated by plot.py at 2018-04-17 19:39:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.46 Mbit/s  
95th percentile per-packet one-way delay: 29.008 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 53.75 Mbit/s  
95th percentile per-packet one-way delay: 28.982 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 42.38 Mbit/s  
95th percentile per-packet one-way delay: 29.002 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 31.79 Mbit/s  
95th percentile per-packet one-way delay: 29.041 ms  
Loss rate: 0.34%

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



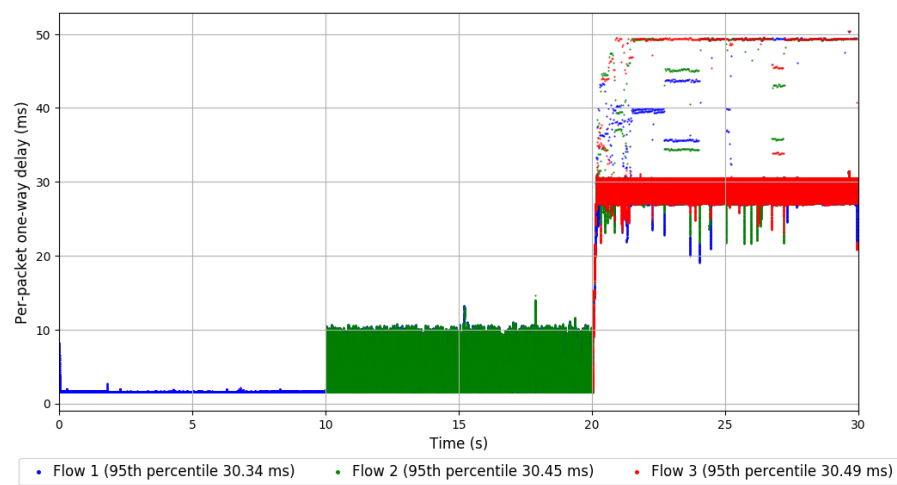
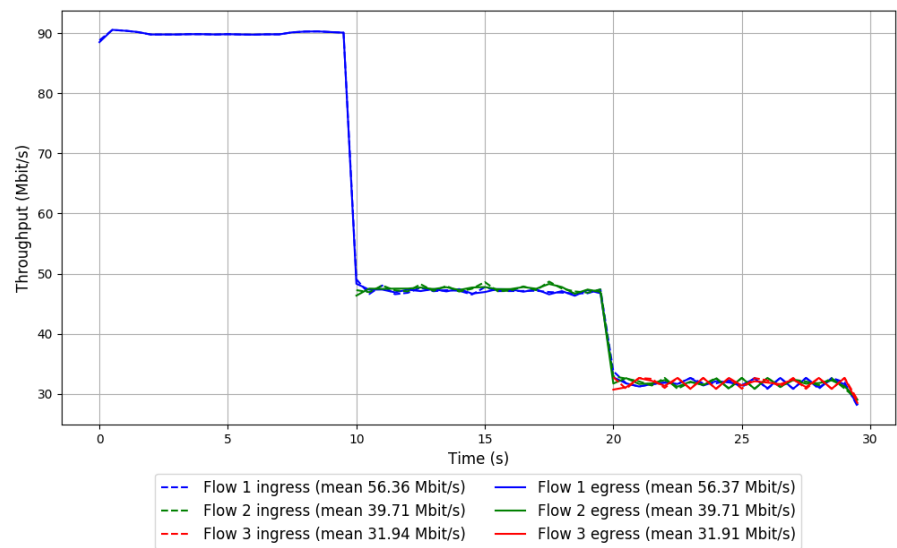


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 15:51:29  
End at: 2018-04-17 15:51:59  
Local clock offset: -5.491 ms  
Remote clock offset: -6.866 ms

# Below is generated by plot.py at 2018-04-17 19:40:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.33 Mbit/s  
95th percentile per-packet one-way delay: 30.429 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 56.37 Mbit/s  
95th percentile per-packet one-way delay: 30.344 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 39.71 Mbit/s  
95th percentile per-packet one-way delay: 30.446 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.91 Mbit/s  
95th percentile per-packet one-way delay: 30.487 ms  
Loss rate: 0.37%

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

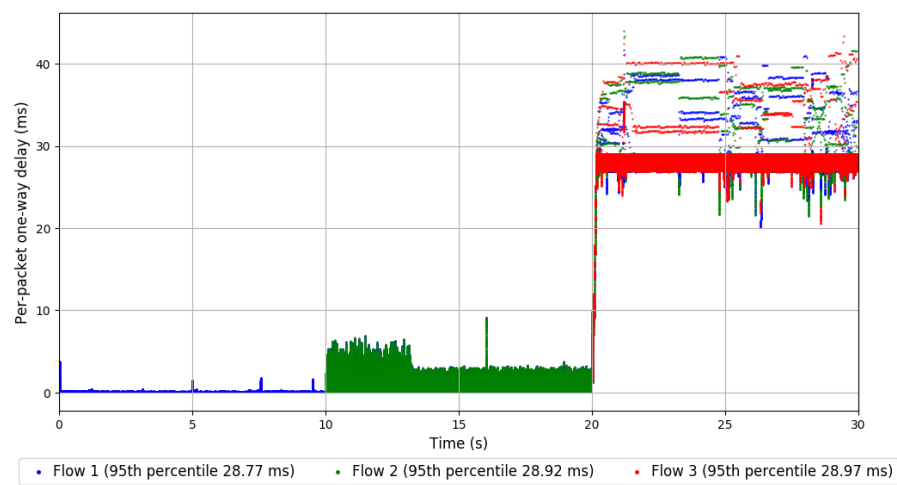
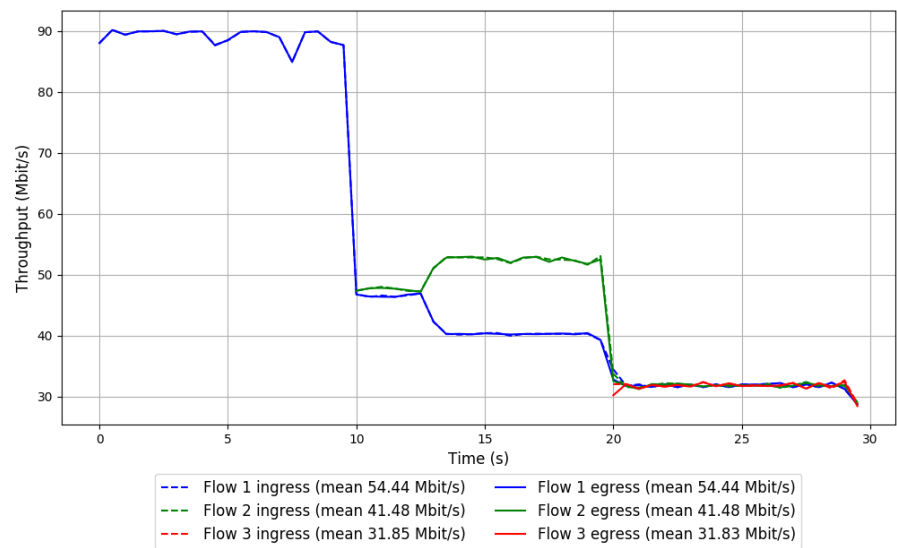


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 16:10:35
End at: 2018-04-17 16:11:05
Local clock offset: -7.105 ms
Remote clock offset: -7.119 ms

# Below is generated by plot.py at 2018-04-17 19:41:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.58 Mbit/s
95th percentile per-packet one-way delay: 28.898 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 54.44 Mbit/s
95th percentile per-packet one-way delay: 28.769 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 41.48 Mbit/s
95th percentile per-packet one-way delay: 28.922 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 31.83 Mbit/s
95th percentile per-packet one-way delay: 28.970 ms
Loss rate: 0.35%
```

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

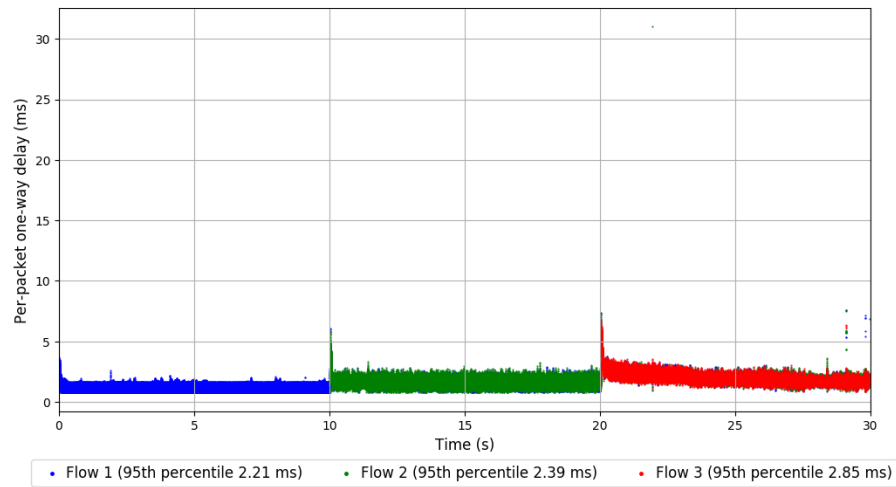
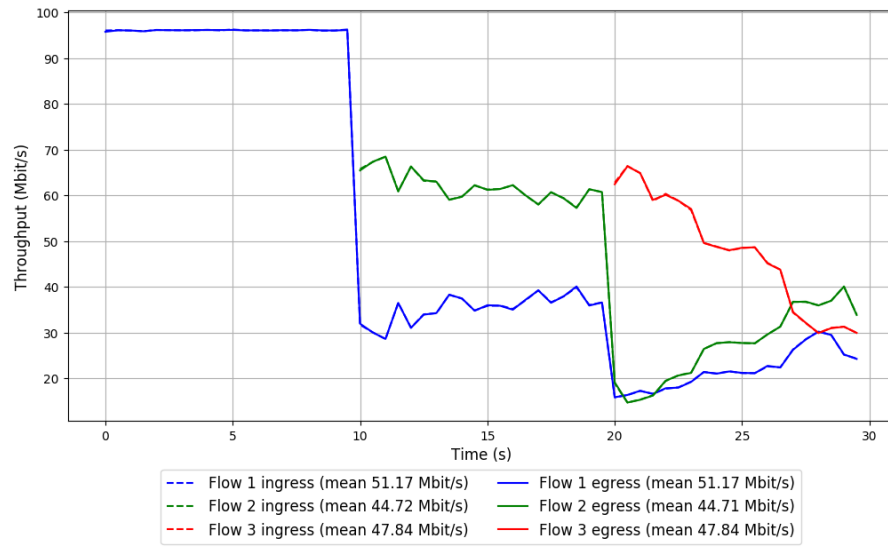


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 13:10:39  
End at: 2018-04-17 13:11:09  
Local clock offset: -5.748 ms  
Remote clock offset: -6.465 ms

# Below is generated by plot.py at 2018-04-17 19:41:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.79 Mbit/s  
95th percentile per-packet one-way delay: 2.491 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 51.17 Mbit/s  
95th percentile per-packet one-way delay: 2.211 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 44.71 Mbit/s  
95th percentile per-packet one-way delay: 2.390 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 47.84 Mbit/s  
95th percentile per-packet one-way delay: 2.854 ms  
Loss rate: 0.02%

# Run 1: Report of TCP Vegas — Data Link

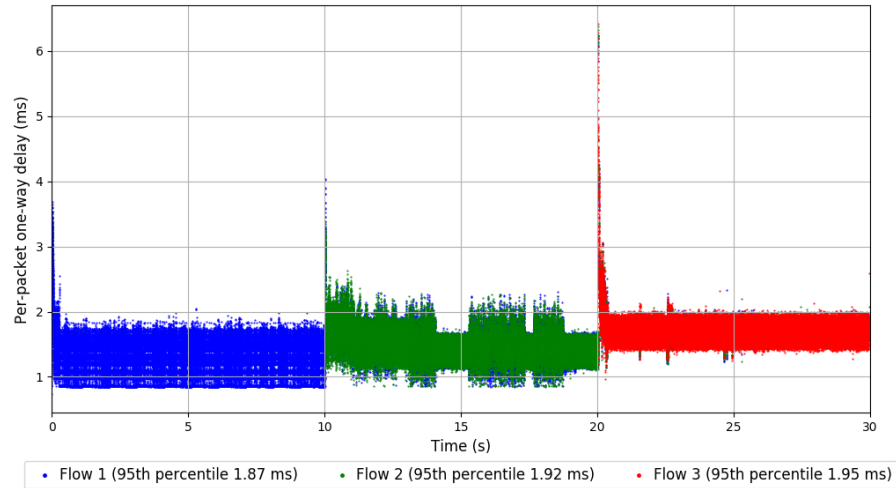
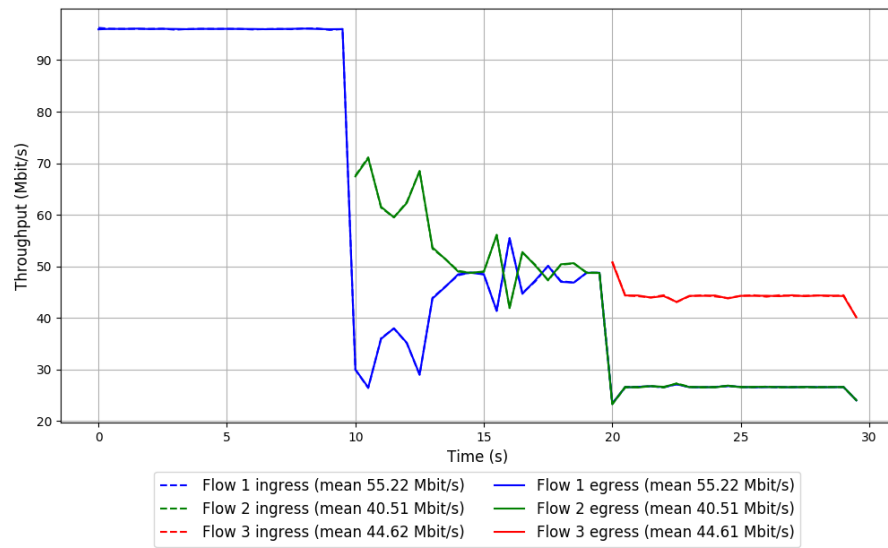


Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 13:29:44  
End at: 2018-04-17 13:30:14  
Local clock offset: -5.55 ms  
Remote clock offset: -6.113 ms

# Below is generated by plot.py at 2018-04-17 19:41:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.98 Mbit/s  
95th percentile per-packet one-way delay: 1.902 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 55.22 Mbit/s  
95th percentile per-packet one-way delay: 1.866 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.51 Mbit/s  
95th percentile per-packet one-way delay: 1.921 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 44.61 Mbit/s  
95th percentile per-packet one-way delay: 1.950 ms  
Loss rate: 0.02%

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



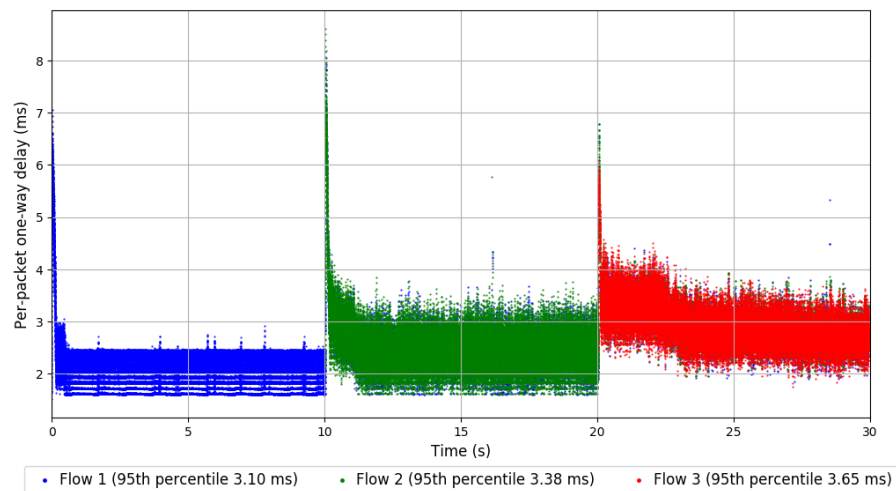
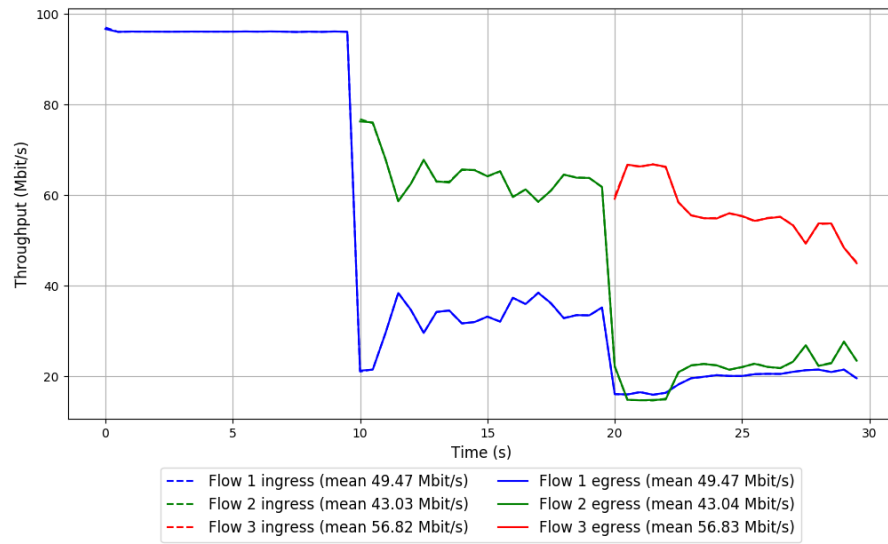


Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 13:48:54  
End at: 2018-04-17 13:49:24  
Local clock offset: -4.622 ms  
Remote clock offset: -6.463 ms

```
# Below is generated by plot.py at 2018-04-17 19:41:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 3.404 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 3.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.04 Mbit/s
95th percentile per-packet one-way delay: 3.378 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 56.83 Mbit/s
95th percentile per-packet one-way delay: 3.649 ms
Loss rate: 0.04%
```

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



Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 14:08:01

End at: 2018-04-17 14:08:31

Local clock offset: -6.298 ms

Remote clock offset: -6.55 ms

# Below is generated by plot.py at 2018-04-17 19:41:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.47 Mbit/s

95th percentile per-packet one-way delay: 2.047 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 1.649 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 32.91 Mbit/s

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

Loss rate: 0.01%

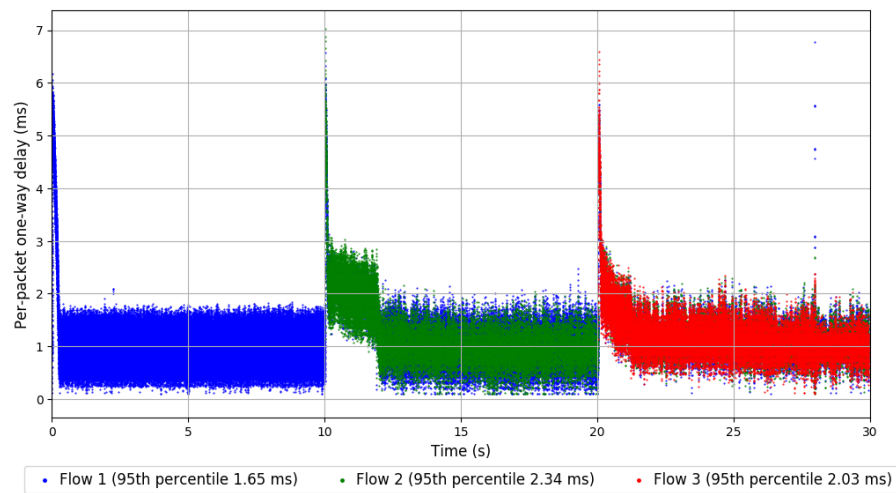
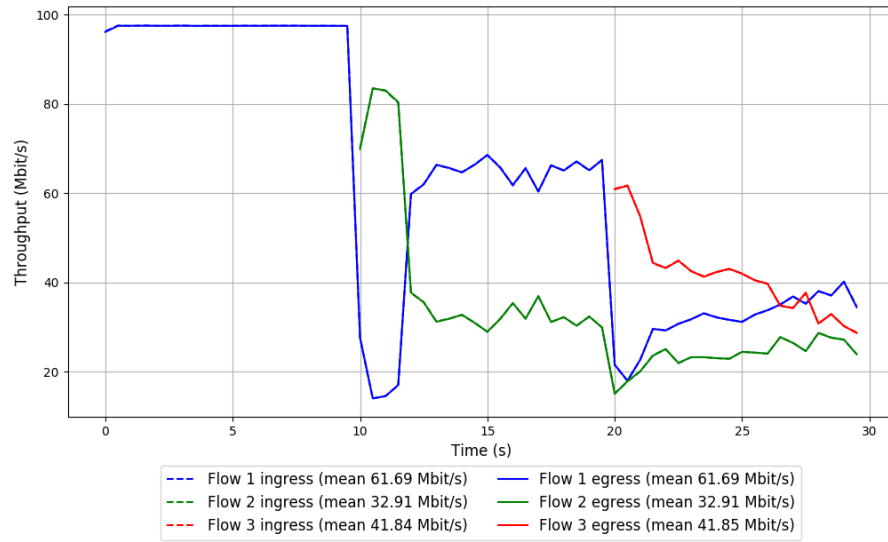
-- Flow 3:

Average throughput: 41.85 Mbit/s

95th percentile per-packet one-way delay: 2.033 ms

Loss rate: 0.02%

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

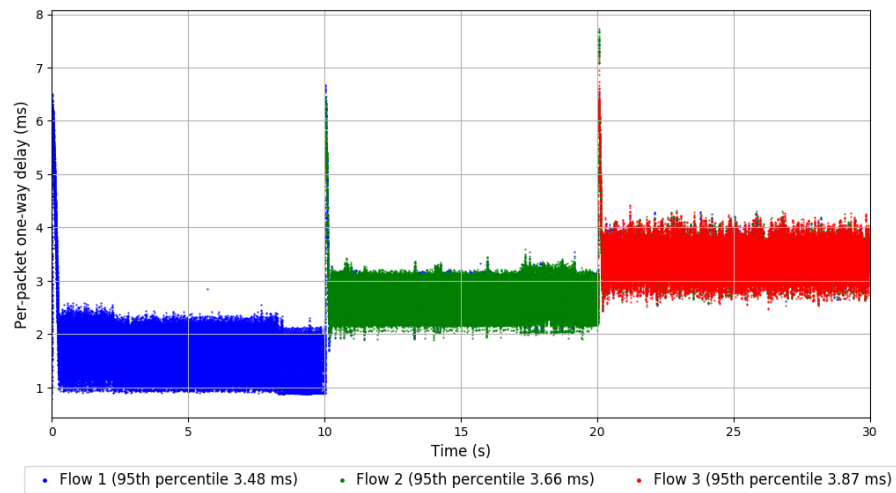
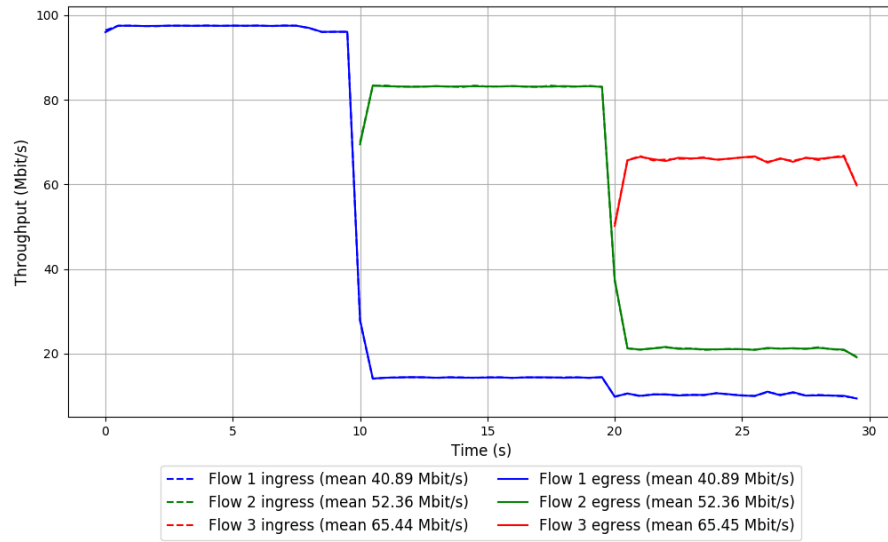


Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 14:27:10  
End at: 2018-04-17 14:27:40  
Local clock offset: -5.581 ms  
Remote clock offset: -6.933 ms

# Below is generated by plot.py at 2018-04-17 19:41:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 3.738 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 40.89 Mbit/s  
95th percentile per-packet one-way delay: 3.485 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 52.36 Mbit/s  
95th percentile per-packet one-way delay: 3.656 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 65.45 Mbit/s  
95th percentile per-packet one-way delay: 3.868 ms  
Loss rate: 0.06%

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

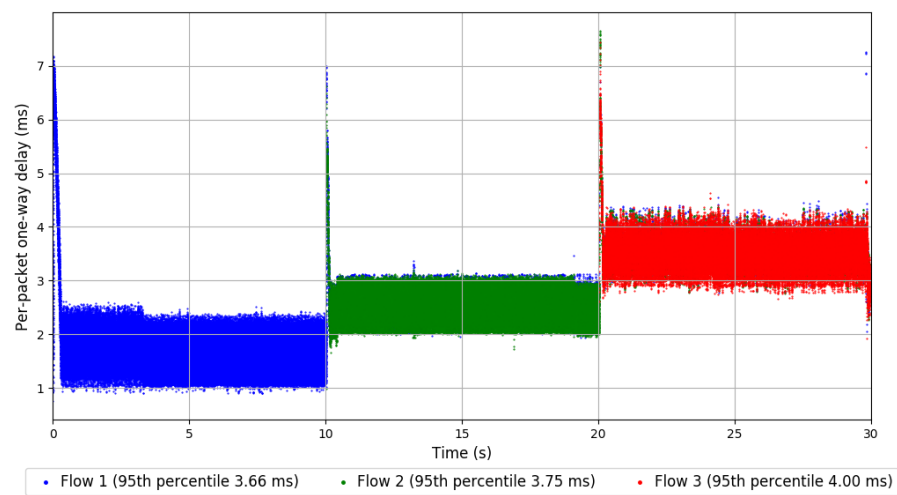
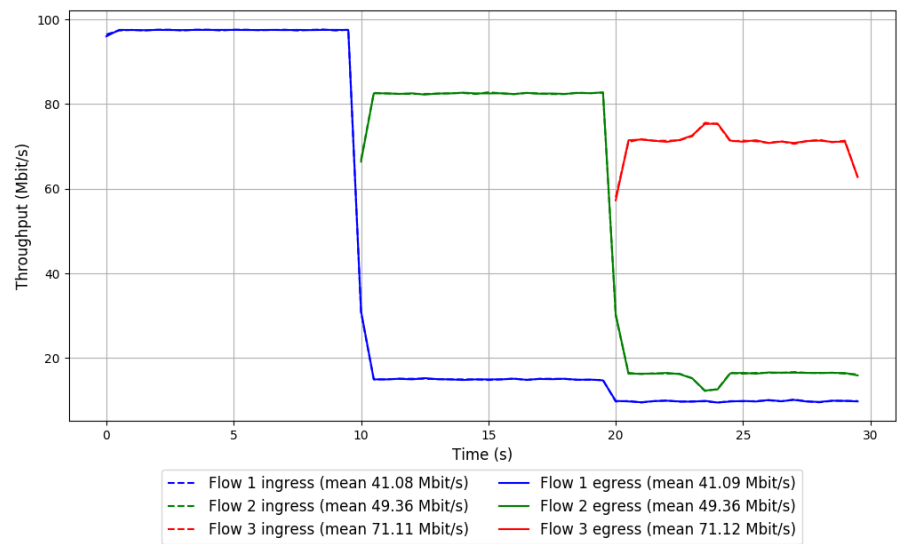


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 14:46:19  
End at: 2018-04-17 14:46:49  
Local clock offset: -5.8 ms  
Remote clock offset: -6.718 ms

# Below is generated by plot.py at 2018-04-17 19:41:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 3.882 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 41.09 Mbit/s  
95th percentile per-packet one-way delay: 3.662 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 49.36 Mbit/s  
95th percentile per-packet one-way delay: 3.752 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 71.12 Mbit/s  
95th percentile per-packet one-way delay: 3.996 ms  
Loss rate: 0.04%

Run 6: Report of TCP Vegas — Data Link



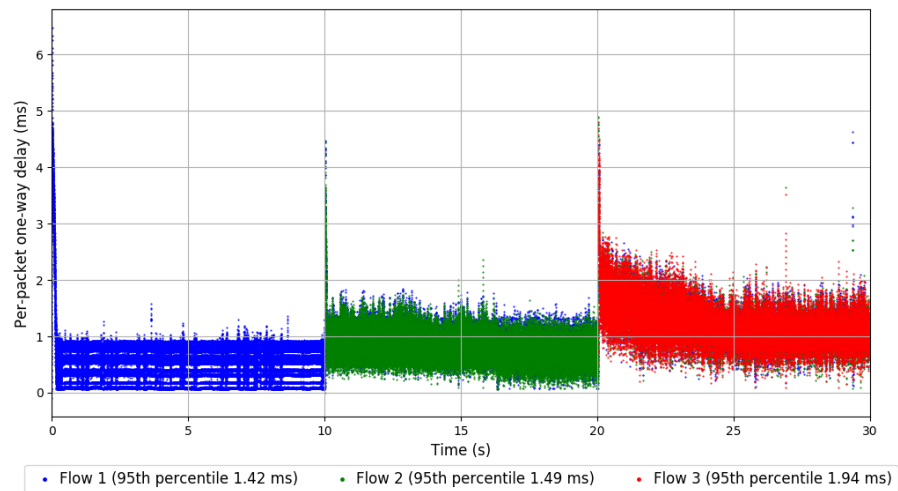
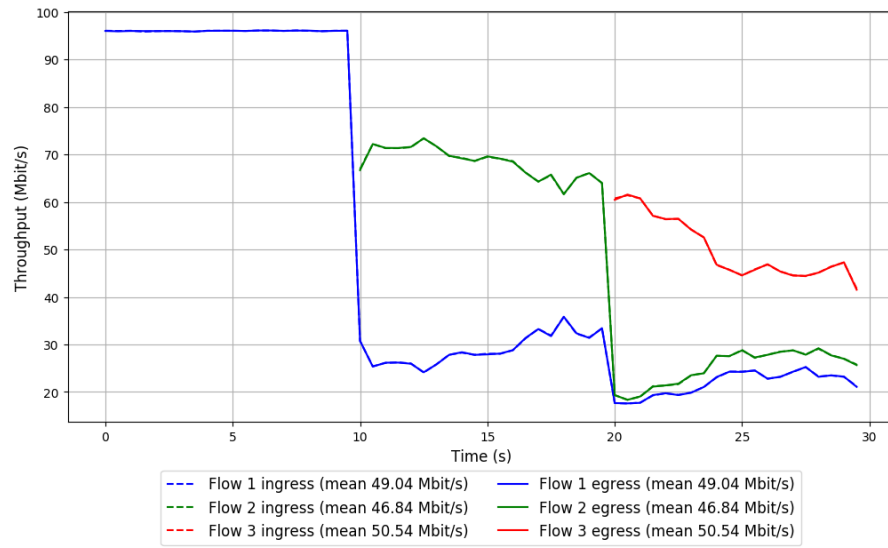


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 15:05:26  
End at: 2018-04-17 15:05:56  
Local clock offset: -6.745 ms  
Remote clock offset: -6.355 ms

# Below is generated by plot.py at 2018-04-17 19:42:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.98 Mbit/s  
95th percentile per-packet one-way delay: 1.621 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 49.04 Mbit/s  
95th percentile per-packet one-way delay: 1.421 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.84 Mbit/s  
95th percentile per-packet one-way delay: 1.487 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 50.54 Mbit/s  
95th percentile per-packet one-way delay: 1.937 ms  
Loss rate: 0.03%

# Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 15:24:35

End at: 2018-04-17 15:25:05

Local clock offset: -6.077 ms

Remote clock offset: -6.41 ms

# Below is generated by plot.py at 2018-04-17 19:42:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.98 Mbit/s

95th percentile per-packet one-way delay: 2.195 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 1.995 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.67 Mbit/s

95th percentile per-packet one-way delay: 2.154 ms

Loss rate: 0.01%

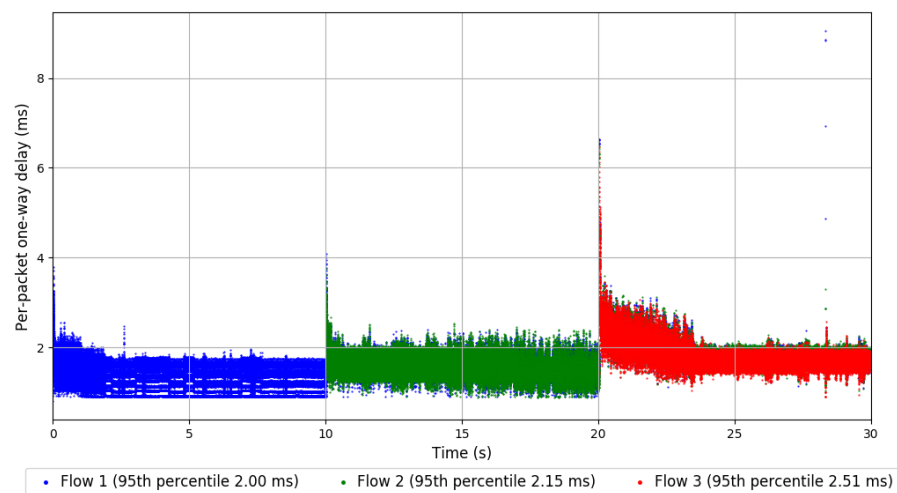
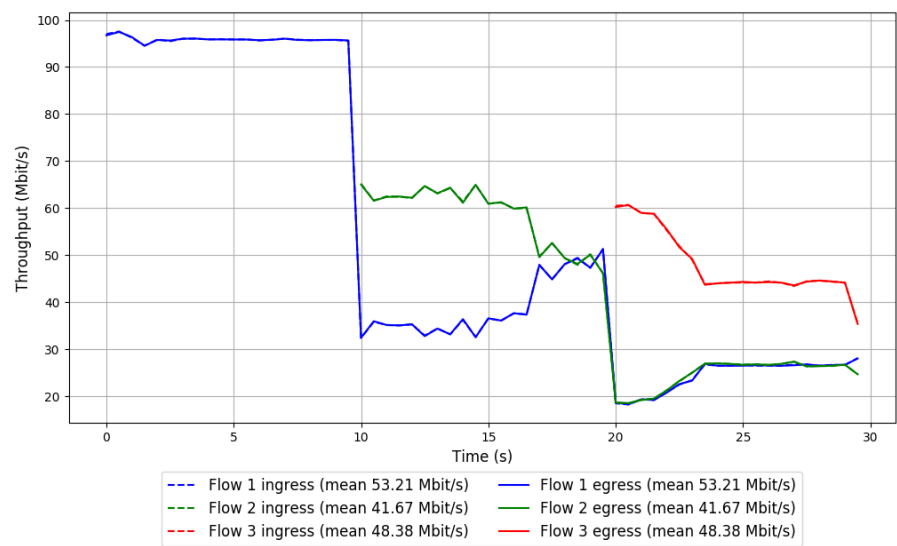
-- Flow 3:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 2.510 ms

Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link

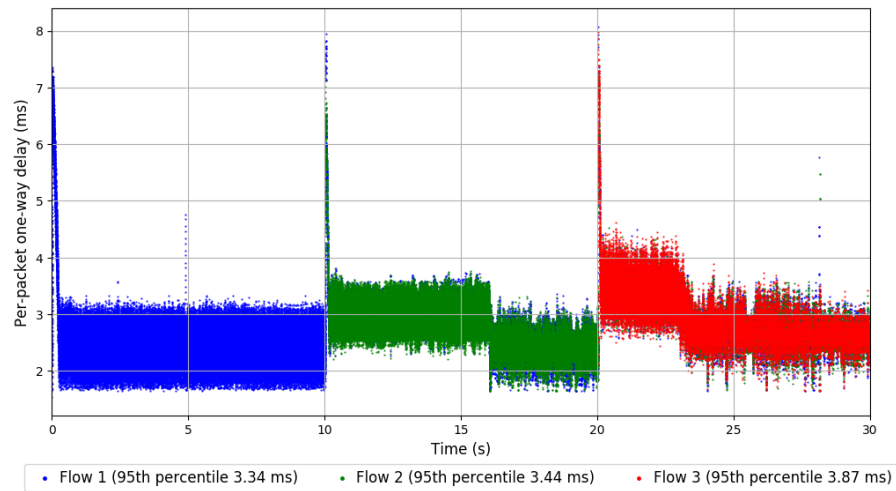
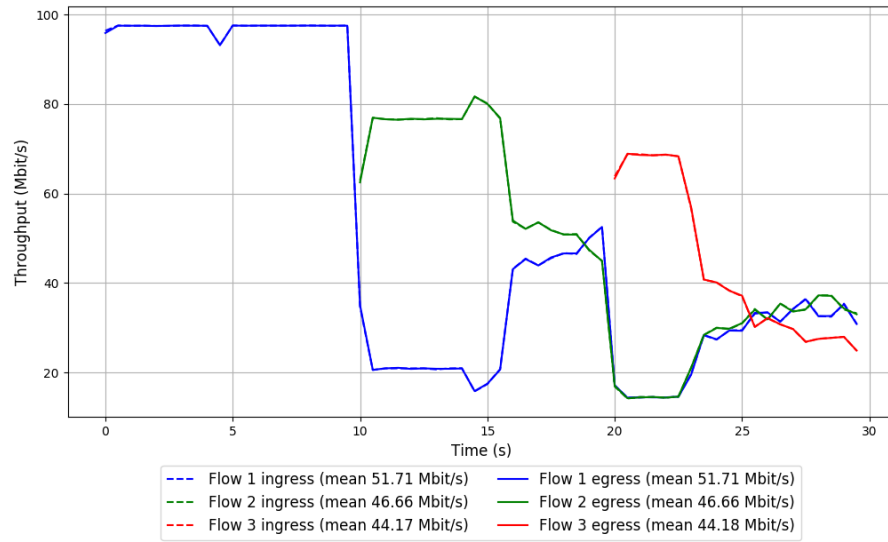


Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 15:43:42  
End at: 2018-04-17 15:44:12  
Local clock offset: -5.469 ms  
Remote clock offset: -6.816 ms

# Below is generated by plot.py at 2018-04-17 19:42:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.41 Mbit/s  
95th percentile per-packet one-way delay: 3.554 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 51.71 Mbit/s  
95th percentile per-packet one-way delay: 3.341 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 46.66 Mbit/s  
95th percentile per-packet one-way delay: 3.442 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 44.18 Mbit/s  
95th percentile per-packet one-way delay: 3.868 ms  
Loss rate: 0.01%

# Run 9: Report of TCP Vegas — Data Link

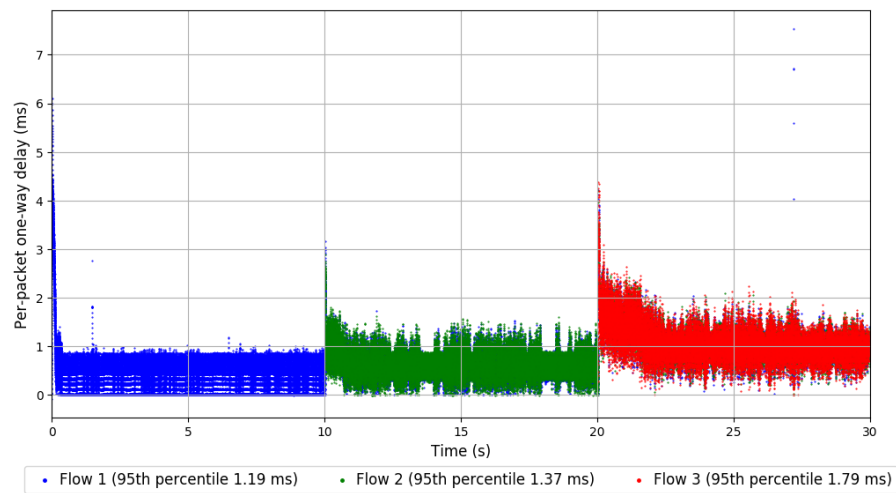
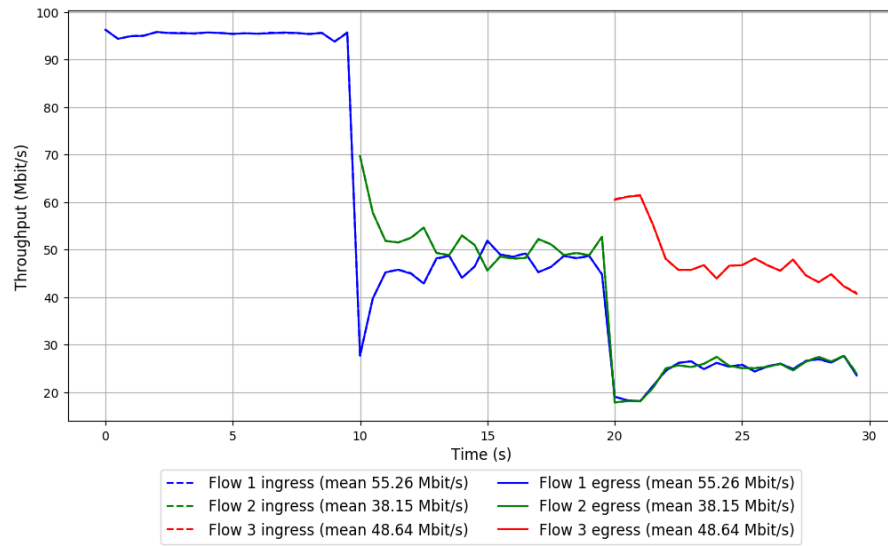


Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 16:02:50  
End at: 2018-04-17 16:03:20  
Local clock offset: -7.136 ms  
Remote clock offset: -7.007 ms

# Below is generated by plot.py at 2018-04-17 19:42:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.78 Mbit/s  
95th percentile per-packet one-way delay: 1.428 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 55.26 Mbit/s  
95th percentile per-packet one-way delay: 1.188 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.15 Mbit/s  
95th percentile per-packet one-way delay: 1.369 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 48.64 Mbit/s  
95th percentile per-packet one-way delay: 1.788 ms  
Loss rate: 0.03%

## Run 10: Report of TCP Vegas — Data Link



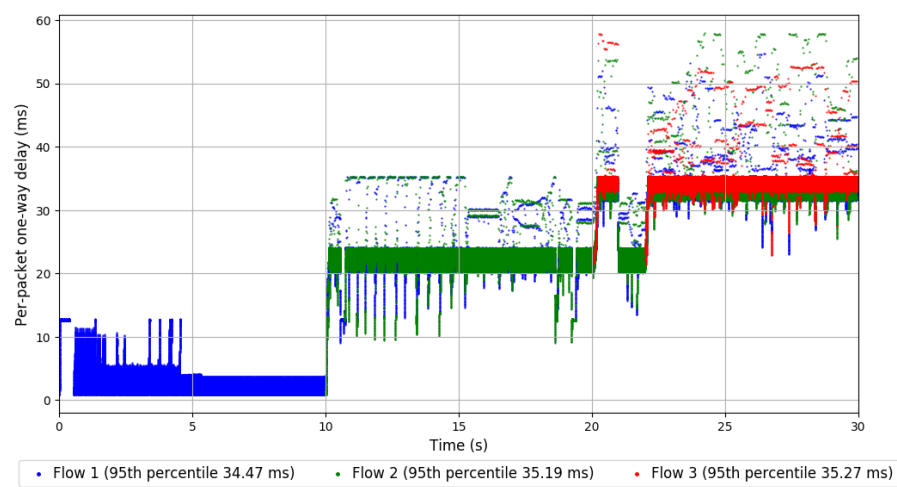
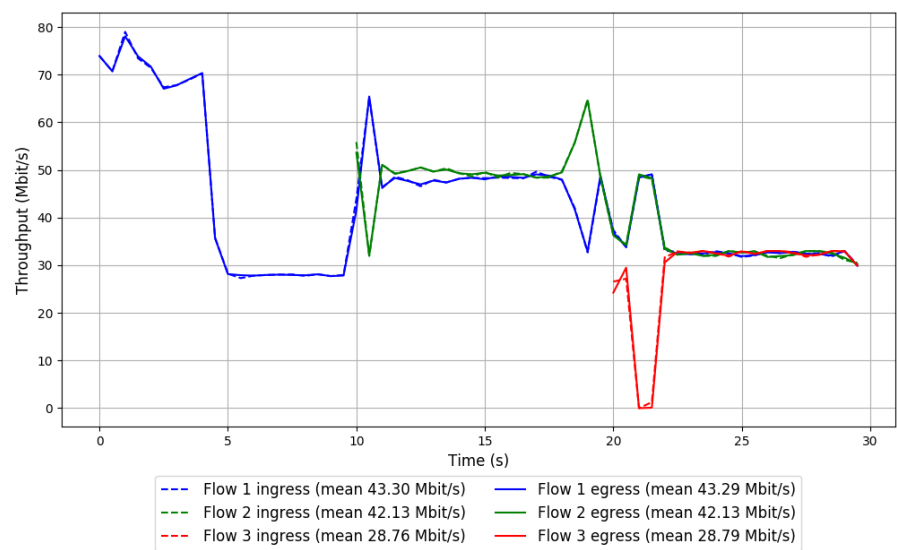


Run 1: Statistics of Verus

Start at: 2018-04-17 13:12:53  
End at: 2018-04-17 13:13:23  
Local clock offset: -5.685 ms  
Remote clock offset: -6.414 ms

# Below is generated by plot.py at 2018-04-17 19:42:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.87 Mbit/s  
95th percentile per-packet one-way delay: 35.188 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 43.29 Mbit/s  
95th percentile per-packet one-way delay: 34.468 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 42.13 Mbit/s  
95th percentile per-packet one-way delay: 35.193 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 28.79 Mbit/s  
95th percentile per-packet one-way delay: 35.275 ms  
Loss rate: 0.39%

Run 1: Report of Verus — Data Link

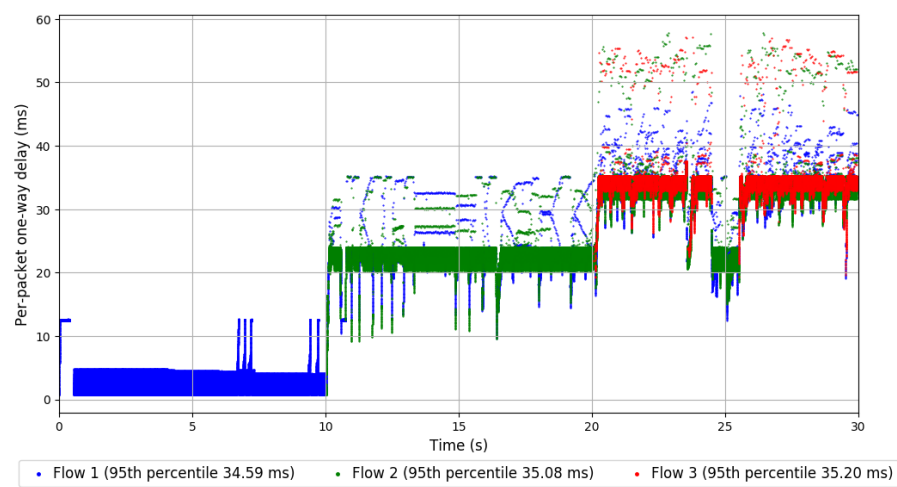
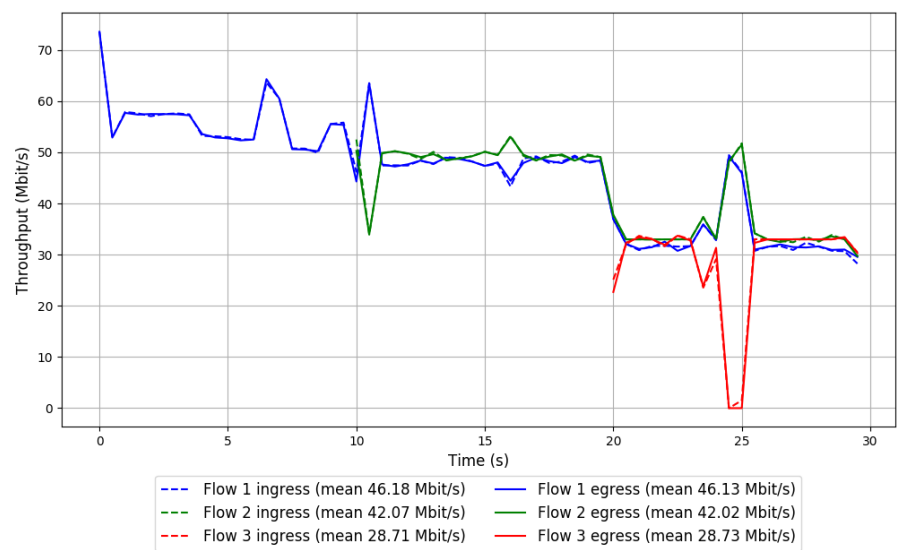


Run 2: Statistics of Verus

Start at: 2018-04-17 13:31:59  
End at: 2018-04-17 13:32:29  
Local clock offset: -5.578 ms  
Remote clock offset: -6.066 ms

# Below is generated by plot.py at 2018-04-17 19:42:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.60 Mbit/s  
95th percentile per-packet one-way delay: 35.097 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 46.13 Mbit/s  
95th percentile per-packet one-way delay: 34.588 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 42.02 Mbit/s  
95th percentile per-packet one-way delay: 35.081 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 28.73 Mbit/s  
95th percentile per-packet one-way delay: 35.200 ms  
Loss rate: 0.39%

Run 2: Report of Verus — Data Link

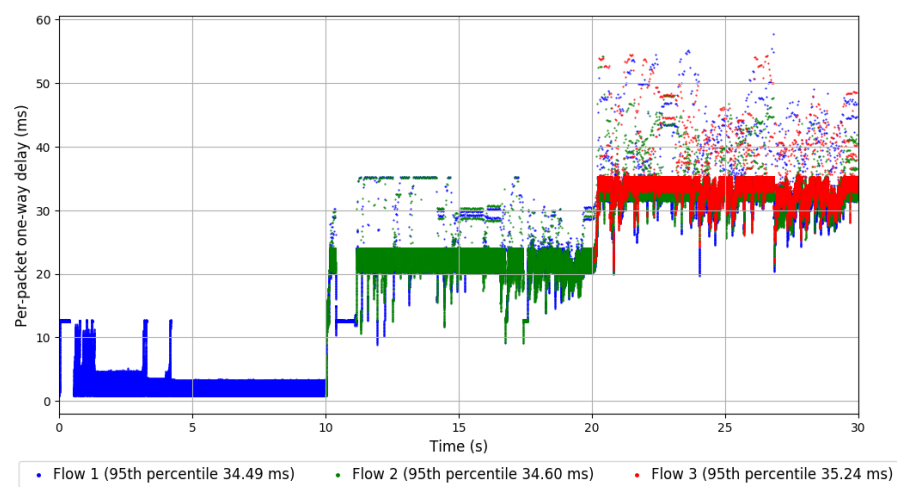
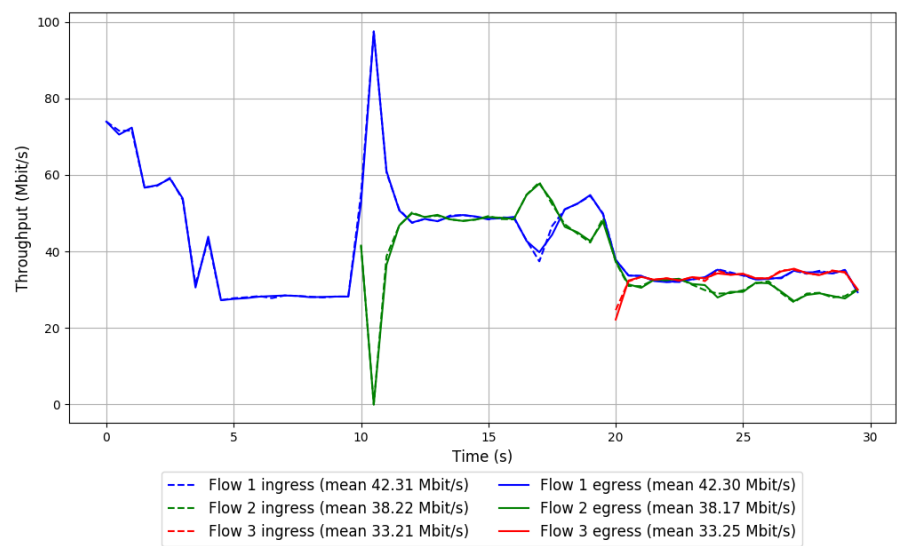


Run 3: Statistics of Verus

Start at: 2018-04-17 13:51:08  
End at: 2018-04-17 13:51:38  
Local clock offset: -5.361 ms  
Remote clock offset: -6.487 ms

# Below is generated by plot.py at 2018-04-17 19:42:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.70 Mbit/s  
95th percentile per-packet one-way delay: 35.093 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 42.30 Mbit/s  
95th percentile per-packet one-way delay: 34.495 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 38.17 Mbit/s  
95th percentile per-packet one-way delay: 34.601 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 33.25 Mbit/s  
95th percentile per-packet one-way delay: 35.241 ms  
Loss rate: 0.34%

Run 3: Report of Verus — Data Link

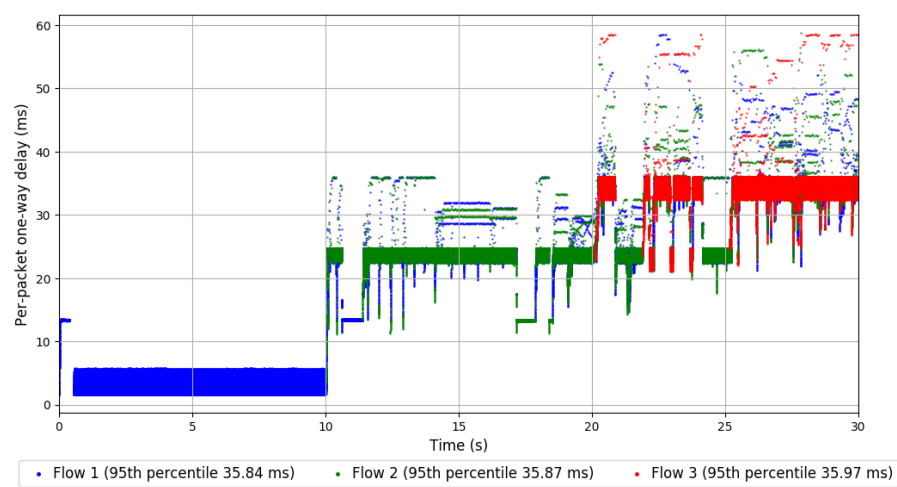
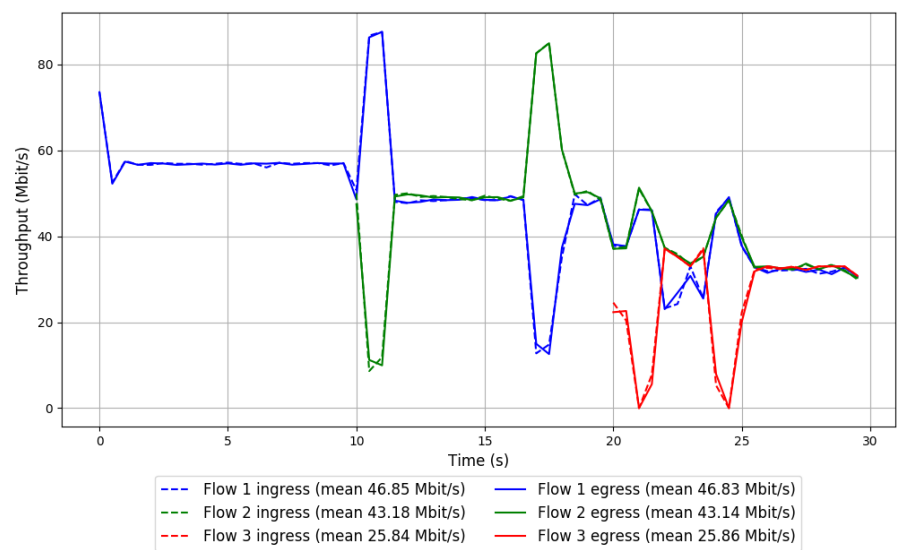


Run 4: Statistics of Verus

Start at: 2018-04-17 14:10:16  
End at: 2018-04-17 14:10:46  
Local clock offset: -4.82 ms  
Remote clock offset: -6.558 ms

# Below is generated by plot.py at 2018-04-17 19:42:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.11 Mbit/s  
95th percentile per-packet one-way delay: 35.898 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 46.83 Mbit/s  
95th percentile per-packet one-way delay: 35.844 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 43.14 Mbit/s  
95th percentile per-packet one-way delay: 35.873 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 25.86 Mbit/s  
95th percentile per-packet one-way delay: 35.970 ms  
Loss rate: 0.44%

Run 4: Report of Verus — Data Link



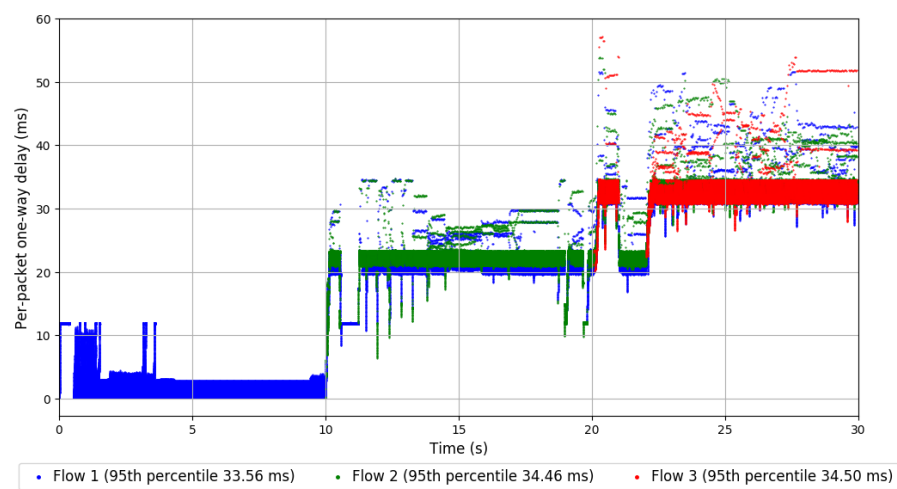
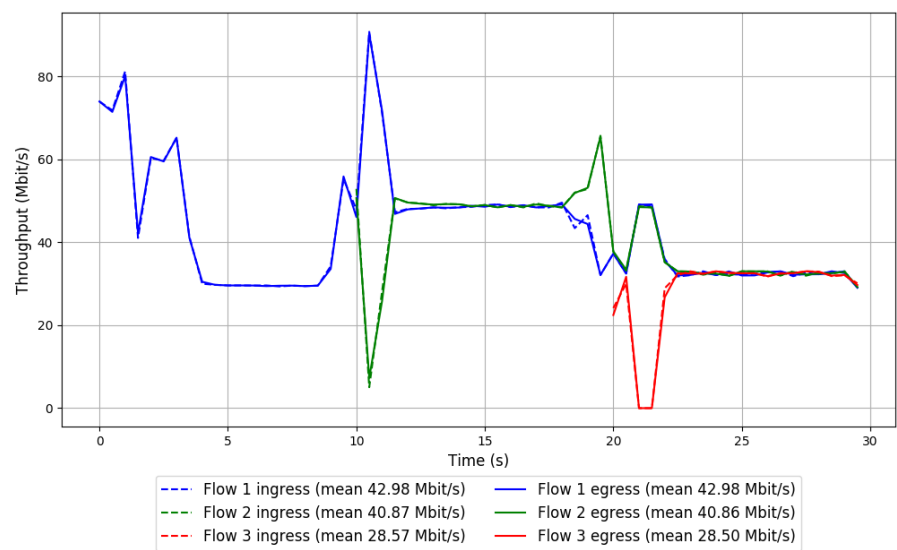


Run 5: Statistics of Verus

Start at: 2018-04-17 14:29:25  
End at: 2018-04-17 14:29:55  
Local clock offset: -6.365 ms  
Remote clock offset: -6.966 ms

# Below is generated by plot.py at 2018-04-17 19:43:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.60 Mbit/s  
95th percentile per-packet one-way delay: 34.390 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 42.98 Mbit/s  
95th percentile per-packet one-way delay: 33.556 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 40.86 Mbit/s  
95th percentile per-packet one-way delay: 34.463 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 28.50 Mbit/s  
95th percentile per-packet one-way delay: 34.498 ms  
Loss rate: 0.45%

Run 5: Report of Verus — Data Link

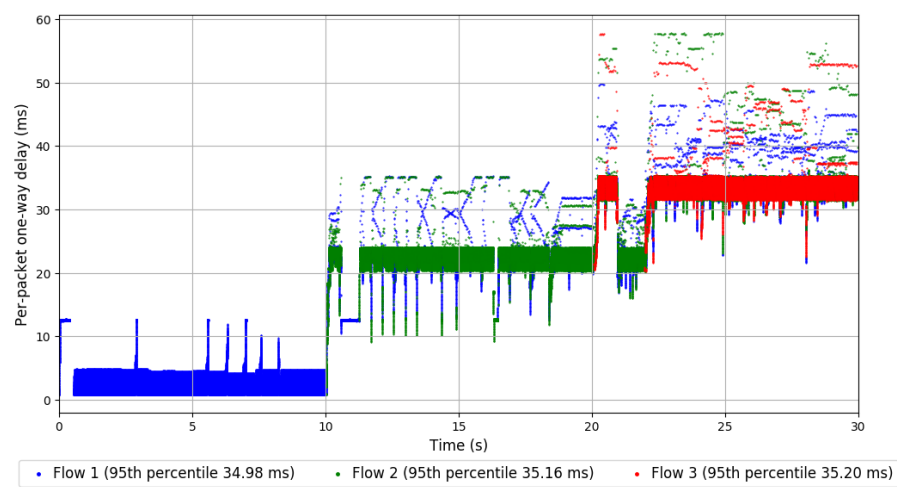
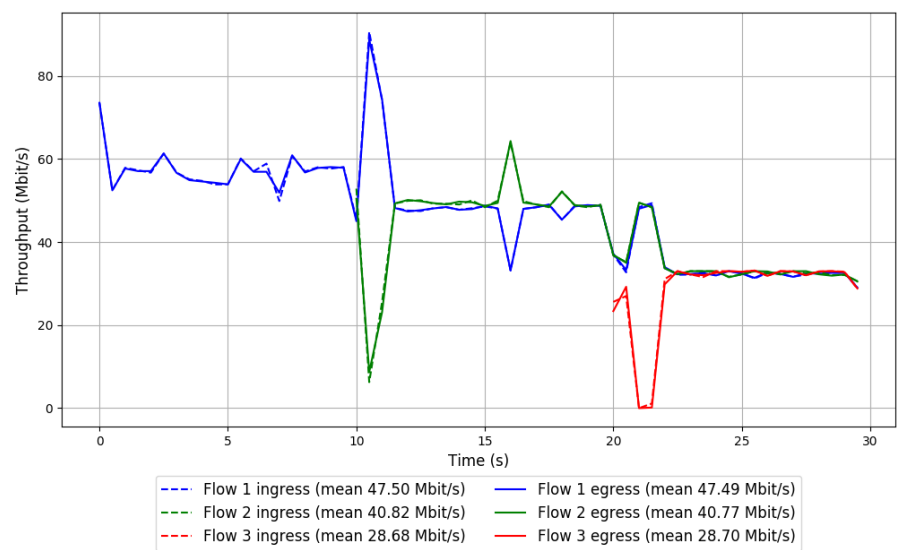


Run 6: Statistics of Verus

Start at: 2018-04-17 14:48:33  
End at: 2018-04-17 14:49:03  
Local clock offset: -5.9 ms  
Remote clock offset: -6.668 ms

# Below is generated by plot.py at 2018-04-17 19:43:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.11 Mbit/s  
95th percentile per-packet one-way delay: 35.119 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 47.49 Mbit/s  
95th percentile per-packet one-way delay: 34.985 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 40.77 Mbit/s  
95th percentile per-packet one-way delay: 35.156 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 28.70 Mbit/s  
95th percentile per-packet one-way delay: 35.199 ms  
Loss rate: 0.39%

Run 6: Report of Verus — Data Link

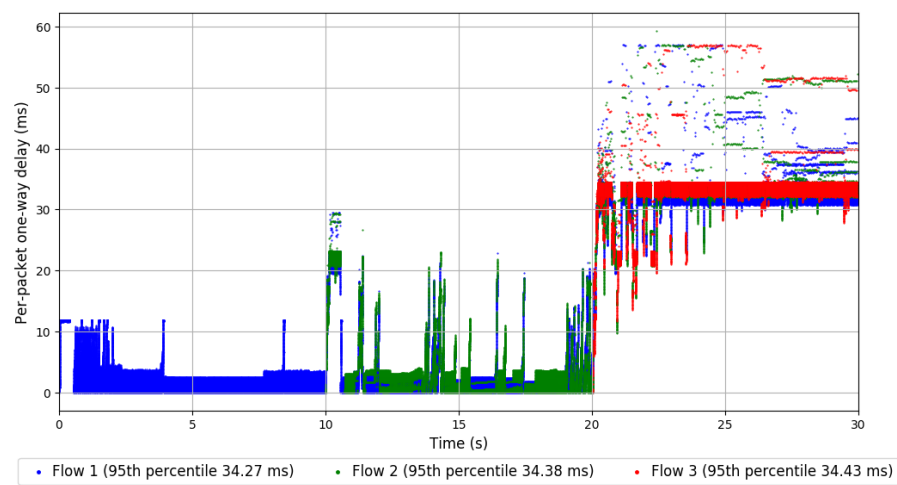
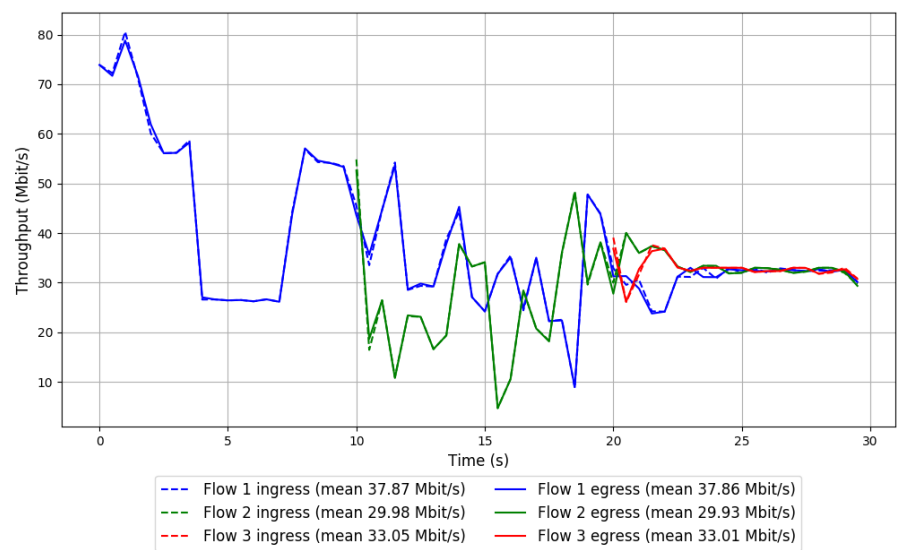


Run 7: Statistics of Verus

Start at: 2018-04-17 15:07:41  
End at: 2018-04-17 15:08:11  
Local clock offset: -6.804 ms  
Remote clock offset: -6.324 ms

# Below is generated by plot.py at 2018-04-17 19:43:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.74 Mbit/s  
95th percentile per-packet one-way delay: 34.381 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 37.86 Mbit/s  
95th percentile per-packet one-way delay: 34.265 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 29.93 Mbit/s  
95th percentile per-packet one-way delay: 34.383 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 33.01 Mbit/s  
95th percentile per-packet one-way delay: 34.429 ms  
Loss rate: 0.35%

Run 7: Report of Verus — Data Link

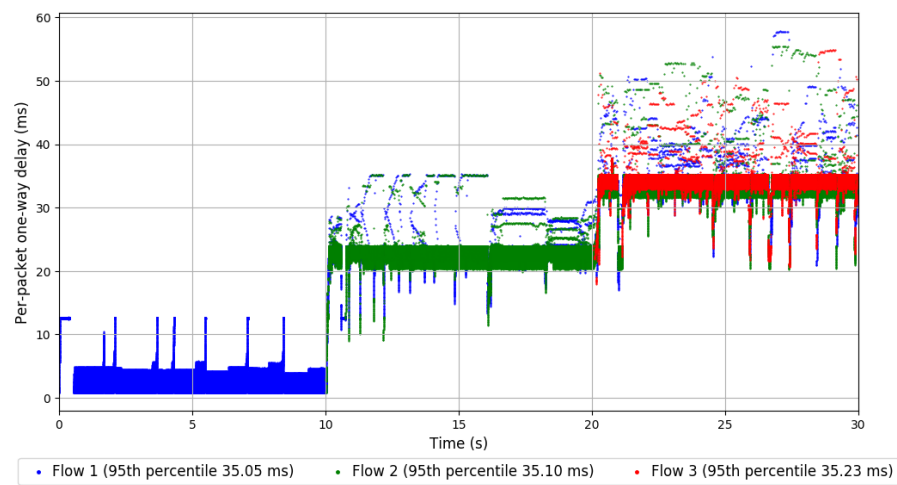
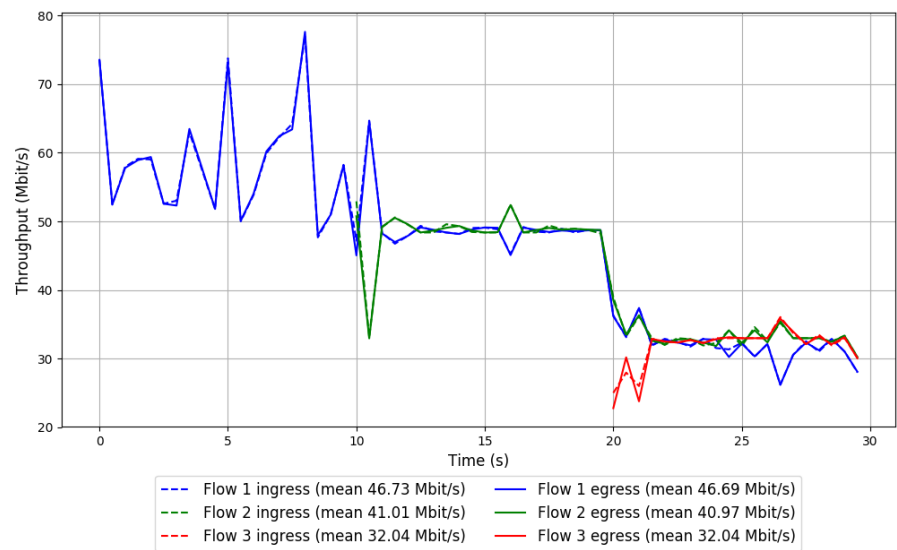


Run 8: Statistics of Verus

Start at: 2018-04-17 15:26:50  
End at: 2018-04-17 15:27:20  
Local clock offset: -6.137 ms  
Remote clock offset: -6.466 ms

# Below is generated by plot.py at 2018-04-17 19:43:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.57 Mbit/s  
95th percentile per-packet one-way delay: 35.136 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 46.69 Mbit/s  
95th percentile per-packet one-way delay: 35.050 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 40.97 Mbit/s  
95th percentile per-packet one-way delay: 35.103 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.04 Mbit/s  
95th percentile per-packet one-way delay: 35.227 ms  
Loss rate: 0.35%

Run 8: Report of Verus — Data Link



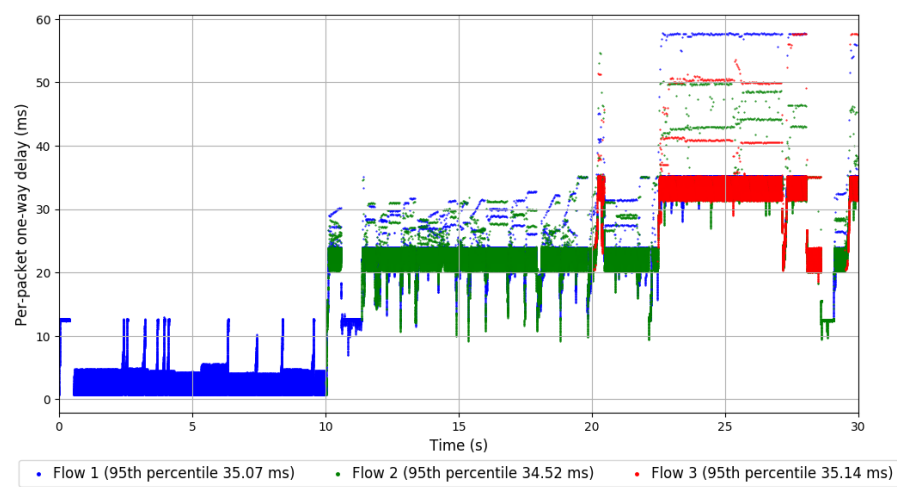
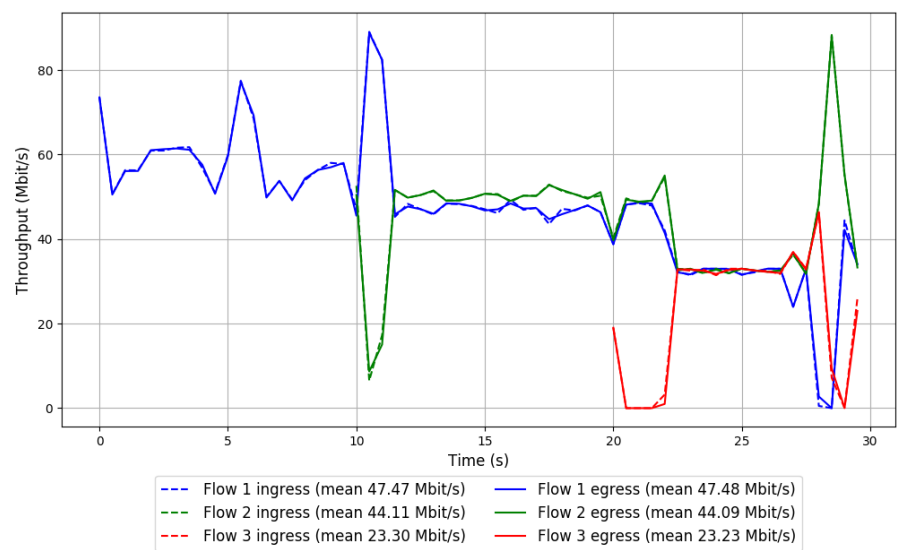


Run 9: Statistics of Verus

Start at: 2018-04-17 15:45:57  
End at: 2018-04-17 15:46:27  
Local clock offset: -6.303 ms  
Remote clock offset: -6.788 ms

# Below is generated by plot.py at 2018-04-17 19:43:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.53 Mbit/s  
95th percentile per-packet one-way delay: 35.063 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 47.48 Mbit/s  
95th percentile per-packet one-way delay: 35.073 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 44.09 Mbit/s  
95th percentile per-packet one-way delay: 34.520 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 23.23 Mbit/s  
95th percentile per-packet one-way delay: 35.136 ms  
Loss rate: 0.64%

Run 9: Report of Verus — Data Link

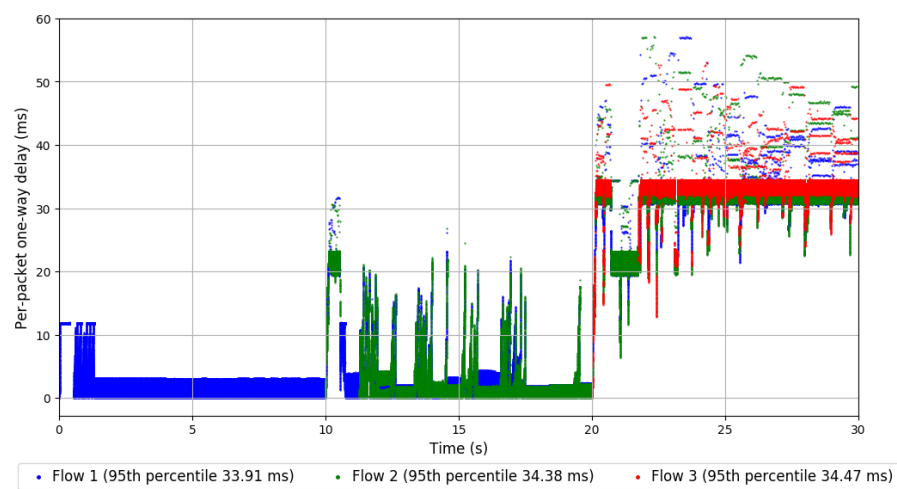
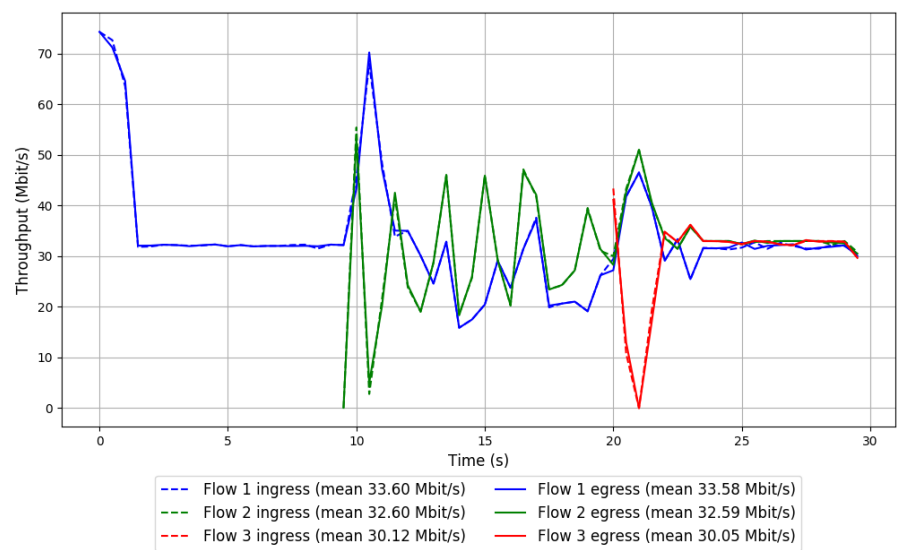


Run 10: Statistics of Verus

Start at: 2018-04-17 16:05:05  
End at: 2018-04-17 16:05:35  
Local clock offset: -7.079 ms  
Remote clock offset: -7.045 ms

# Below is generated by plot.py at 2018-04-17 19:43:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.27 Mbit/s  
95th percentile per-packet one-way delay: 34.382 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 33.58 Mbit/s  
95th percentile per-packet one-way delay: 33.906 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 32.59 Mbit/s  
95th percentile per-packet one-way delay: 34.375 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 30.05 Mbit/s  
95th percentile per-packet one-way delay: 34.465 ms  
Loss rate: 0.37%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 13:21:49

End at: 2018-04-17 13:22:19

Local clock offset: -6.467 ms

Remote clock offset: -6.33 ms

# Below is generated by plot.py at 2018-04-17 19:45:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 19.866 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 60.42 Mbit/s

95th percentile per-packet one-way delay: 19.828 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 19.905 ms

Loss rate: 0.11%

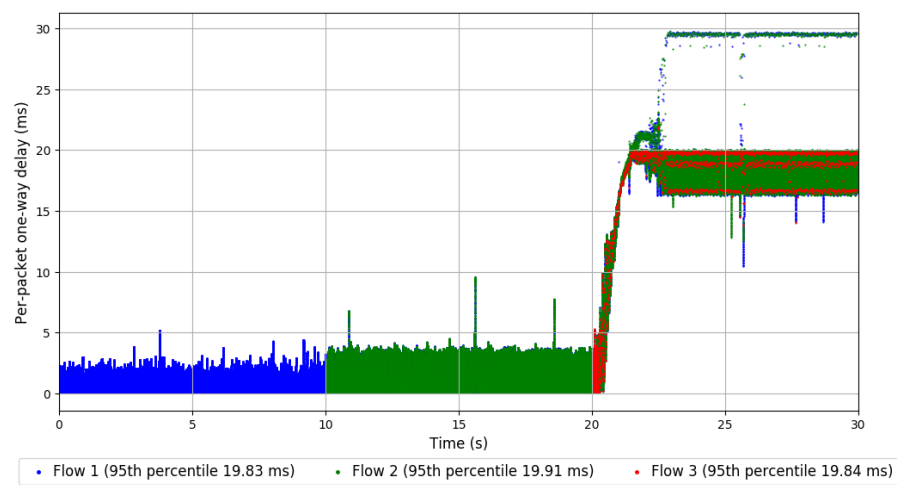
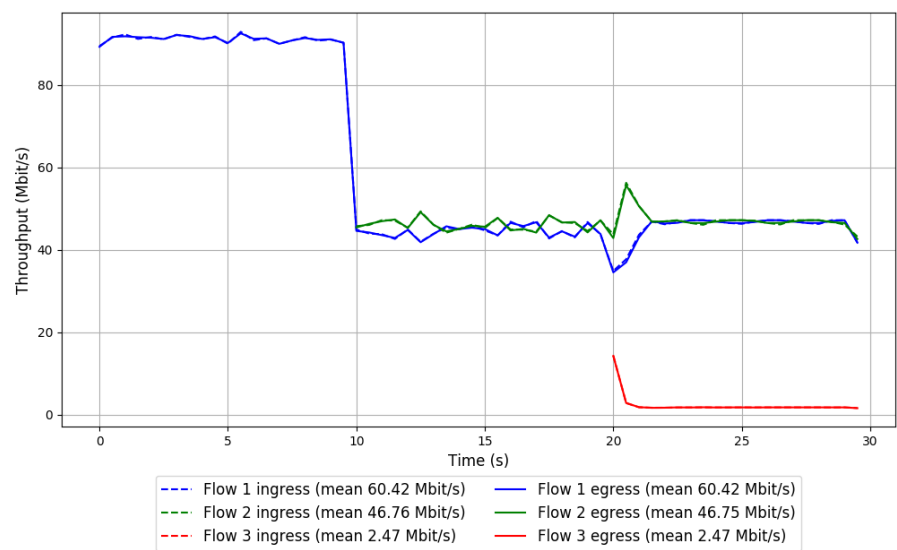
-- Flow 3:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 19.842 ms

Loss rate: 0.16%

Run 1: Report of Copa — Data Link

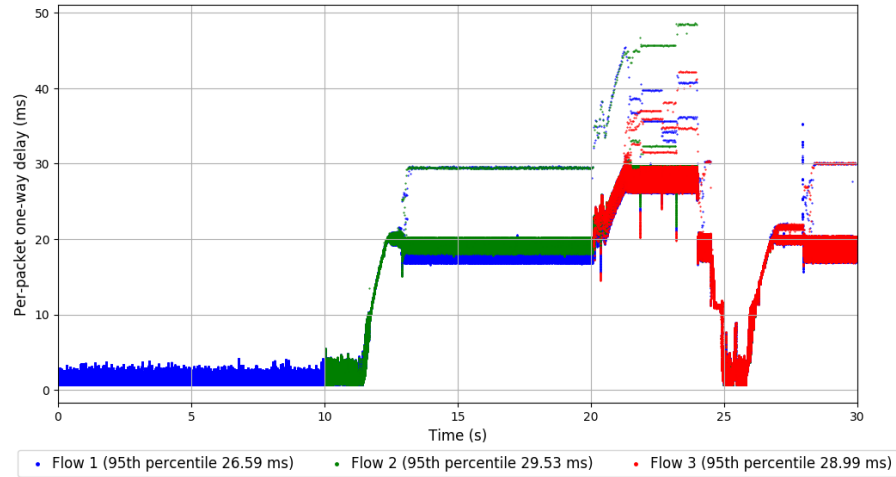
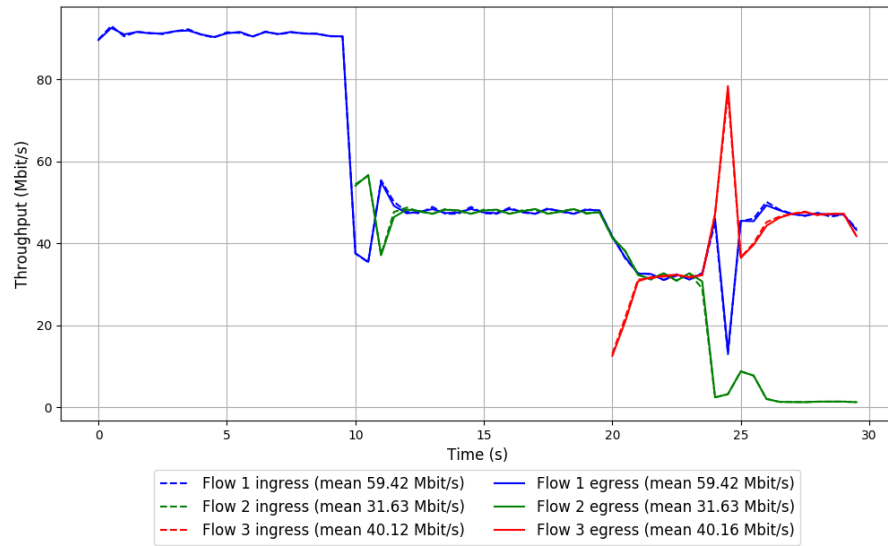


Run 2: Statistics of Copa

Start at: 2018-04-17 13:40:58  
End at: 2018-04-17 13:41:28  
Local clock offset: -5.492 ms  
Remote clock offset: -6.227 ms

# Below is generated by plot.py at 2018-04-17 19:45:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.72 Mbit/s  
95th percentile per-packet one-way delay: 28.626 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 59.42 Mbit/s  
95th percentile per-packet one-way delay: 26.590 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 31.63 Mbit/s  
95th percentile per-packet one-way delay: 29.530 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 40.16 Mbit/s  
95th percentile per-packet one-way delay: 28.991 ms  
Loss rate: 0.23%

## Run 2: Report of Copa — Data Link



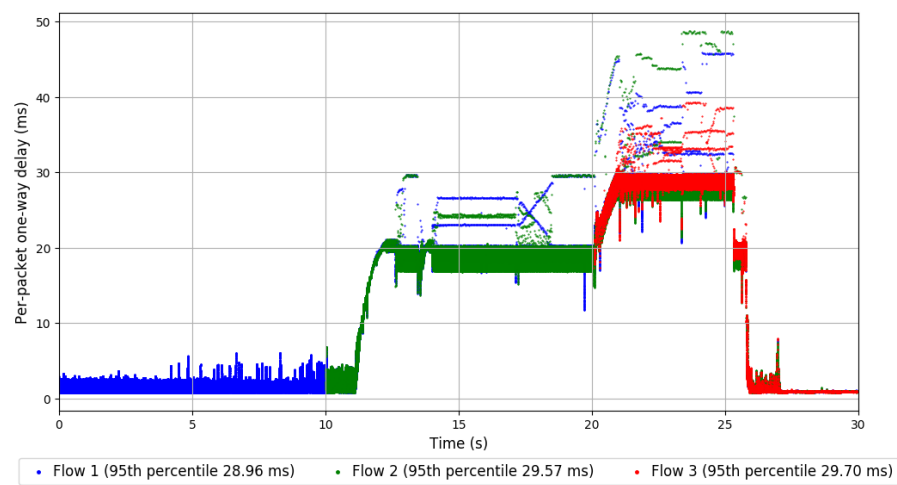
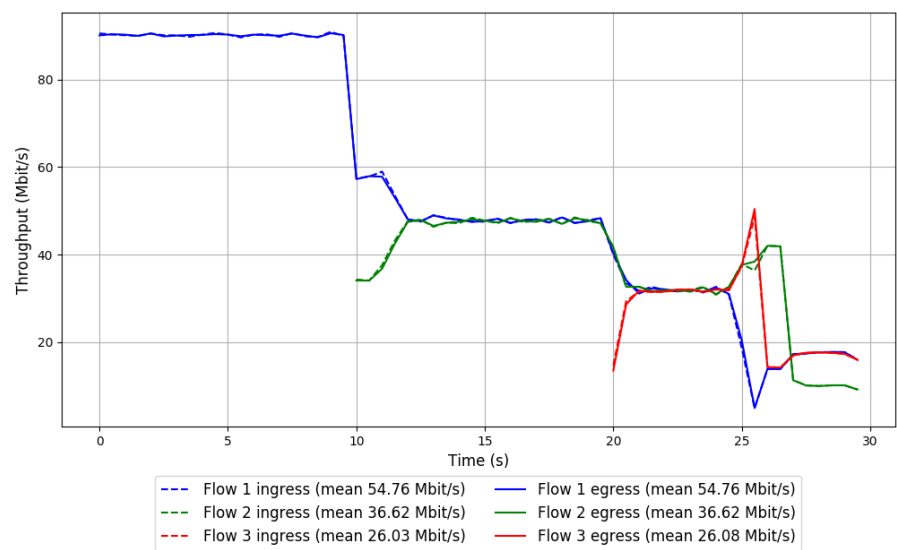


Run 3: Statistics of Copa

Start at: 2018-04-17 14:00:06  
End at: 2018-04-17 14:00:36  
Local clock offset: -5.459 ms  
Remote clock offset: -6.548 ms

# Below is generated by plot.py at 2018-04-17 19:45:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.75 Mbit/s  
95th percentile per-packet one-way delay: 29.521 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 54.76 Mbit/s  
95th percentile per-packet one-way delay: 28.962 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.62 Mbit/s  
95th percentile per-packet one-way delay: 29.568 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 26.08 Mbit/s  
95th percentile per-packet one-way delay: 29.701 ms  
Loss rate: 0.02%

Run 3: Report of Copa — Data Link

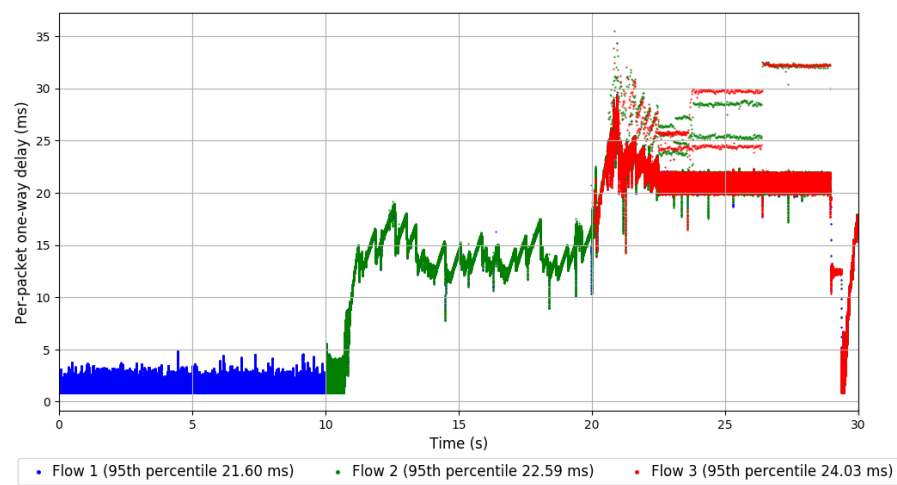
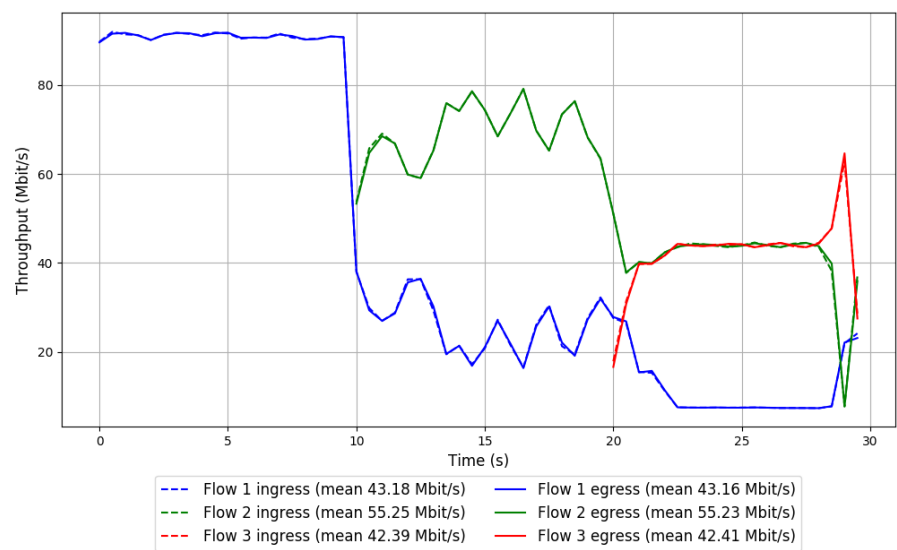


Run 4: Statistics of Copa

Start at: 2018-04-17 14:19:14  
End at: 2018-04-17 14:19:44  
Local clock offset: -5.607 ms  
Remote clock offset: -6.955 ms

# Below is generated by plot.py at 2018-04-17 19:45:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.88 Mbit/s  
95th percentile per-packet one-way delay: 22.429 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 43.16 Mbit/s  
95th percentile per-packet one-way delay: 21.601 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 55.23 Mbit/s  
95th percentile per-packet one-way delay: 22.592 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 42.41 Mbit/s  
95th percentile per-packet one-way delay: 24.033 ms  
Loss rate: 0.15%

Run 4: Report of Copa — Data Link

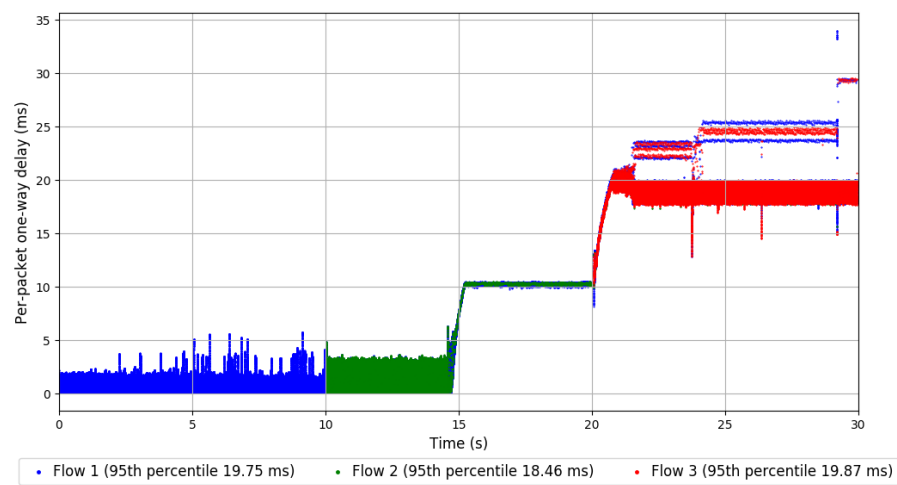
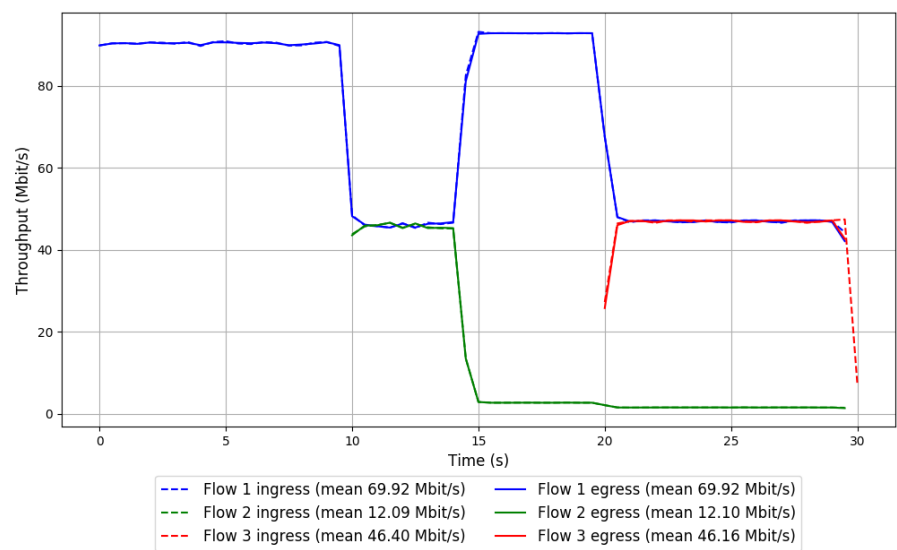


Run 5: Statistics of Copa

Start at: 2018-04-17 14:38:23  
End at: 2018-04-17 14:38:53  
Local clock offset: -6.504 ms  
Remote clock offset: -6.821 ms

# Below is generated by plot.py at 2018-04-17 19:46:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.20 Mbit/s  
95th percentile per-packet one-way delay: 19.776 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 69.92 Mbit/s  
95th percentile per-packet one-way delay: 19.747 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 12.10 Mbit/s  
95th percentile per-packet one-way delay: 18.465 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 46.16 Mbit/s  
95th percentile per-packet one-way delay: 19.868 ms  
Loss rate: 1.47%

Run 5: Report of Copa — Data Link

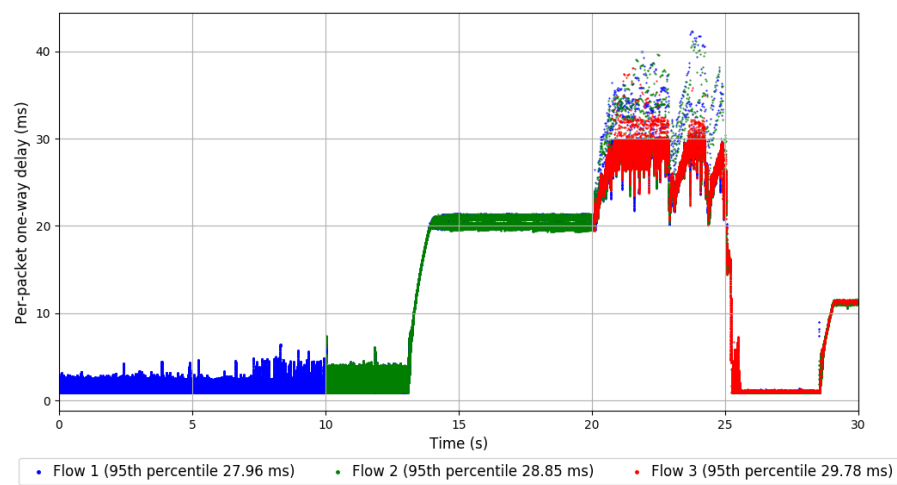
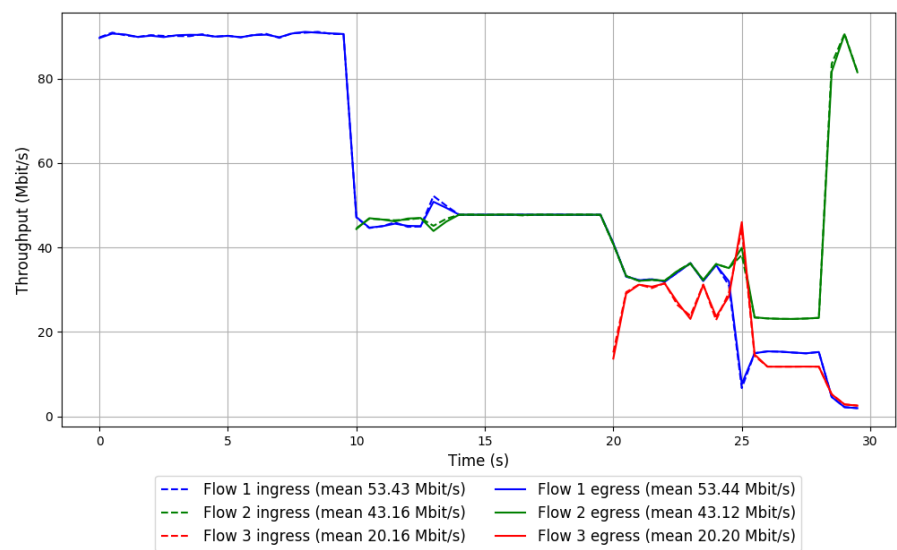


Run 6: Statistics of Copa

Start at: 2018-04-17 14:57:31  
End at: 2018-04-17 14:58:01  
Local clock offset: -5.913 ms  
Remote clock offset: -6.545 ms

# Below is generated by plot.py at 2018-04-17 19:46:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.80 Mbit/s  
95th percentile per-packet one-way delay: 28.833 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 53.44 Mbit/s  
95th percentile per-packet one-way delay: 27.962 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 43.12 Mbit/s  
95th percentile per-packet one-way delay: 28.850 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 20.20 Mbit/s  
95th percentile per-packet one-way delay: 29.779 ms  
Loss rate: 0.02%

Run 6: Report of Copa — Data Link



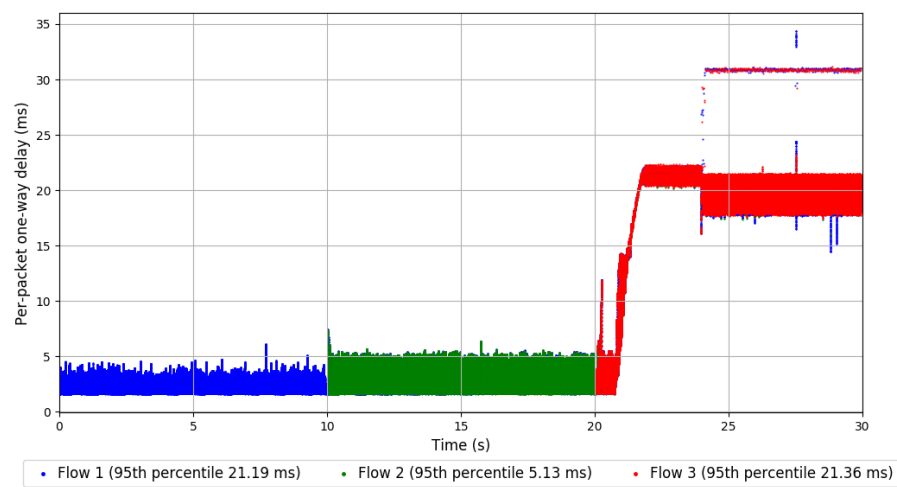
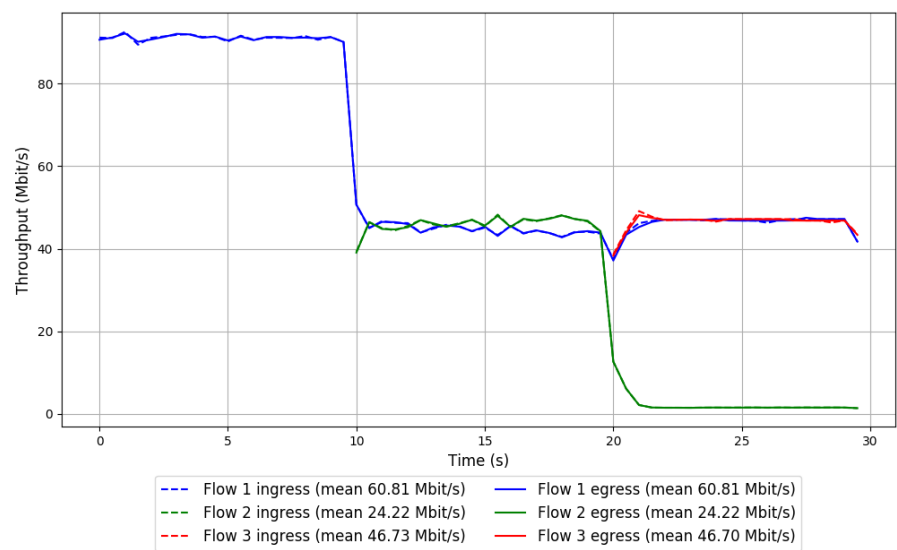


Run 7: Statistics of Copa

Start at: 2018-04-17 15:16:39  
End at: 2018-04-17 15:17:09  
Local clock offset: -5.33 ms  
Remote clock offset: -6.234 ms

# Below is generated by plot.py at 2018-04-17 19:46:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.36 Mbit/s  
95th percentile per-packet one-way delay: 21.231 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 60.81 Mbit/s  
95th percentile per-packet one-way delay: 21.189 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 24.22 Mbit/s  
95th percentile per-packet one-way delay: 5.135 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 46.70 Mbit/s  
95th percentile per-packet one-way delay: 21.360 ms  
Loss rate: 0.21%

Run 7: Report of Copa — Data Link

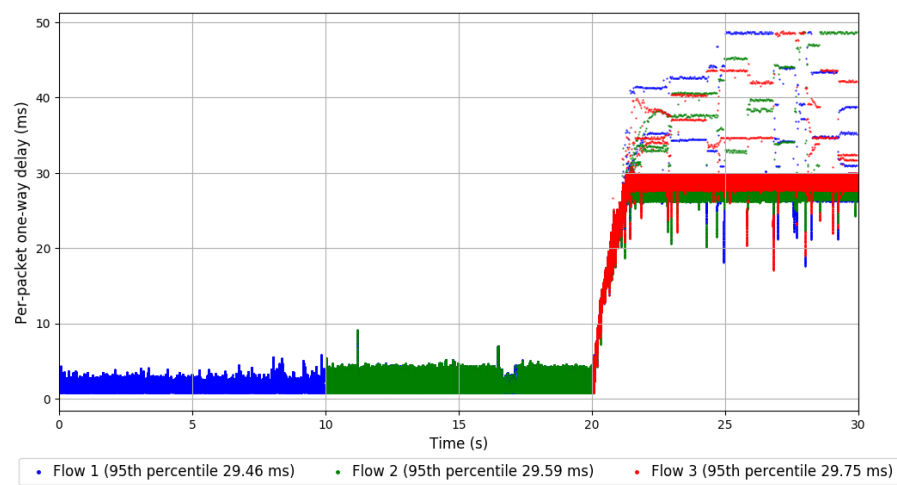
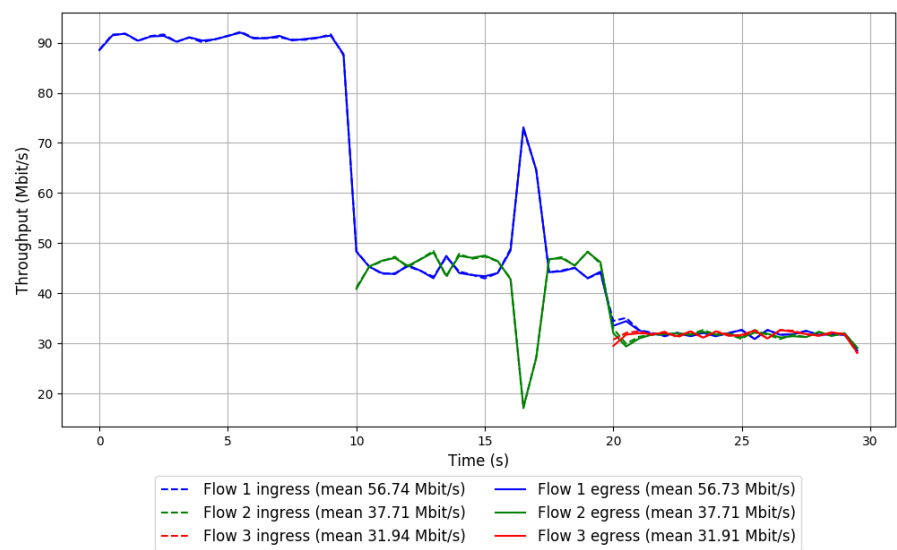


Run 8: Statistics of Copa

Start at: 2018-04-17 15:35:47  
End at: 2018-04-17 15:36:17  
Local clock offset: -6.181 ms  
Remote clock offset: -6.666 ms

# Below is generated by plot.py at 2018-04-17 19:46:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.36 Mbit/s  
95th percentile per-packet one-way delay: 29.658 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 56.73 Mbit/s  
95th percentile per-packet one-way delay: 29.458 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 37.71 Mbit/s  
95th percentile per-packet one-way delay: 29.585 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.91 Mbit/s  
95th percentile per-packet one-way delay: 29.750 ms  
Loss rate: 0.29%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-17 15:54:55

End at: 2018-04-17 15:55:25

Local clock offset: -7.065 ms

Remote clock offset: -6.98 ms

# Below is generated by plot.py at 2018-04-17 19:48:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 19.603 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 69.71 Mbit/s

95th percentile per-packet one-way delay: 19.419 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 8.88 Mbit/s

95th percentile per-packet one-way delay: 16.711 ms

Loss rate: 0.02%

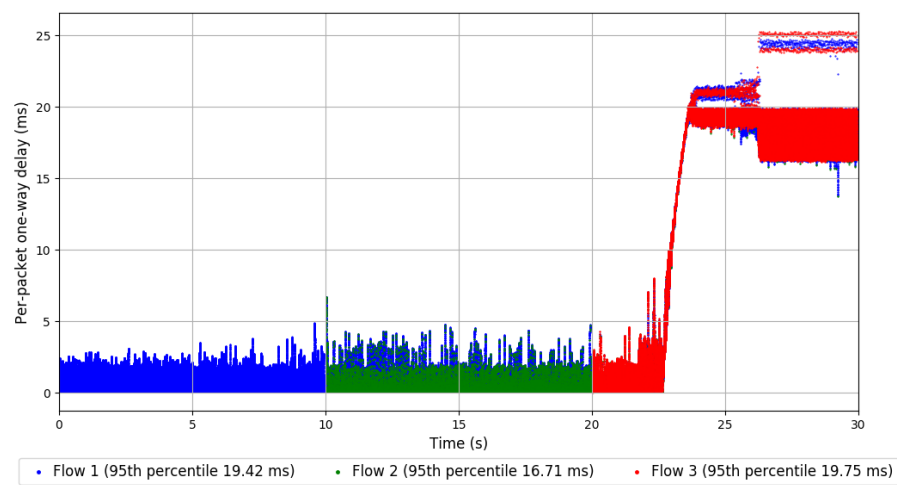
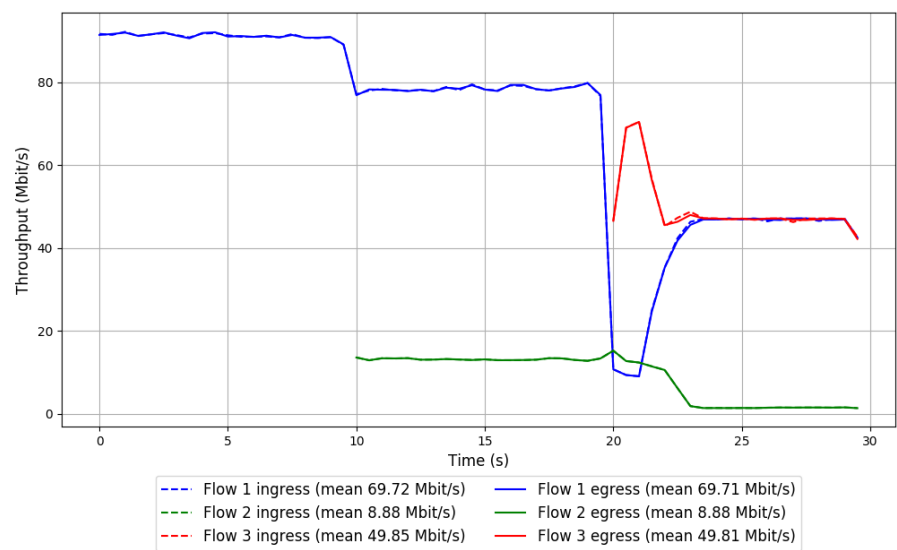
-- Flow 3:

Average throughput: 49.81 Mbit/s

95th percentile per-packet one-way delay: 19.749 ms

Loss rate: 0.24%

Run 9: Report of Copa — Data Link

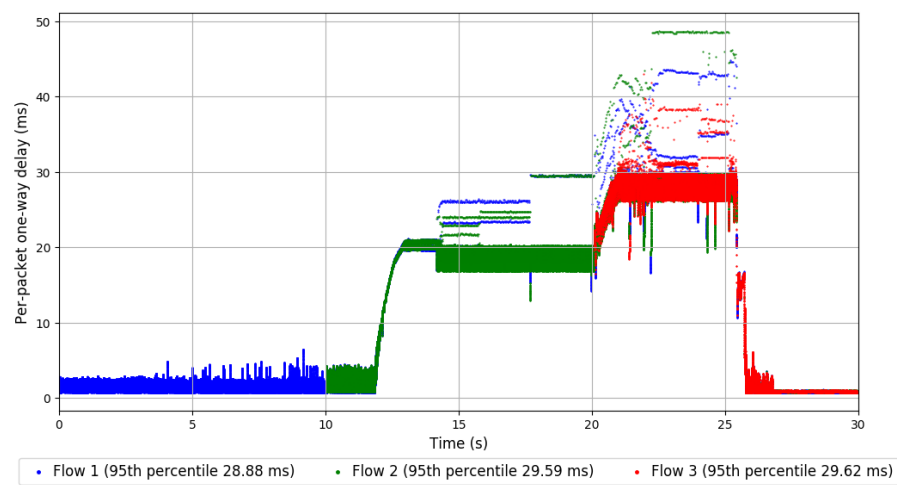
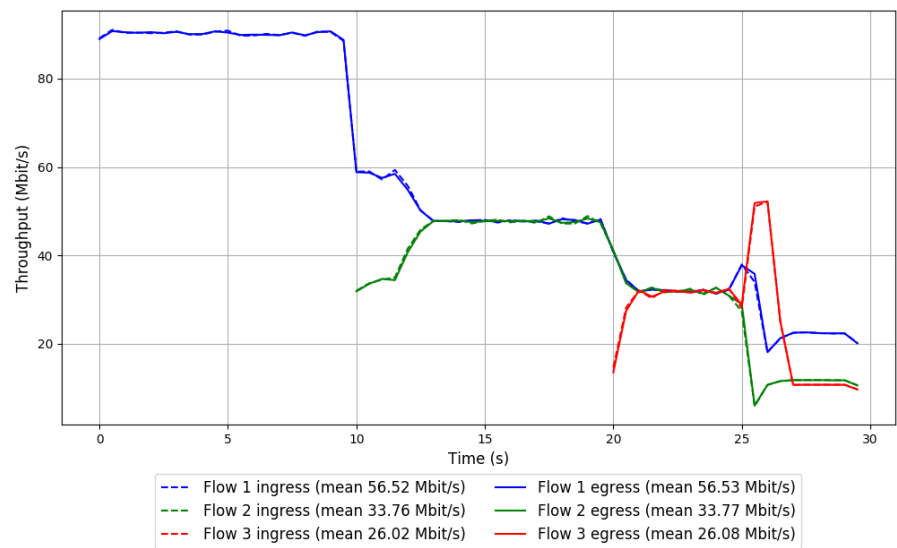


Run 10: Statistics of Copa

Start at: 2018-04-17 16:14:02  
End at: 2018-04-17 16:14:32  
Local clock offset: -6.346 ms  
Remote clock offset: -7.168 ms

# Below is generated by plot.py at 2018-04-17 19:48:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.59 Mbit/s  
95th percentile per-packet one-way delay: 29.482 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 56.53 Mbit/s  
95th percentile per-packet one-way delay: 28.882 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 33.77 Mbit/s  
95th percentile per-packet one-way delay: 29.588 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 26.08 Mbit/s  
95th percentile per-packet one-way delay: 29.623 ms  
Loss rate: 0.02%

Run 10: Report of Copa — Data Link



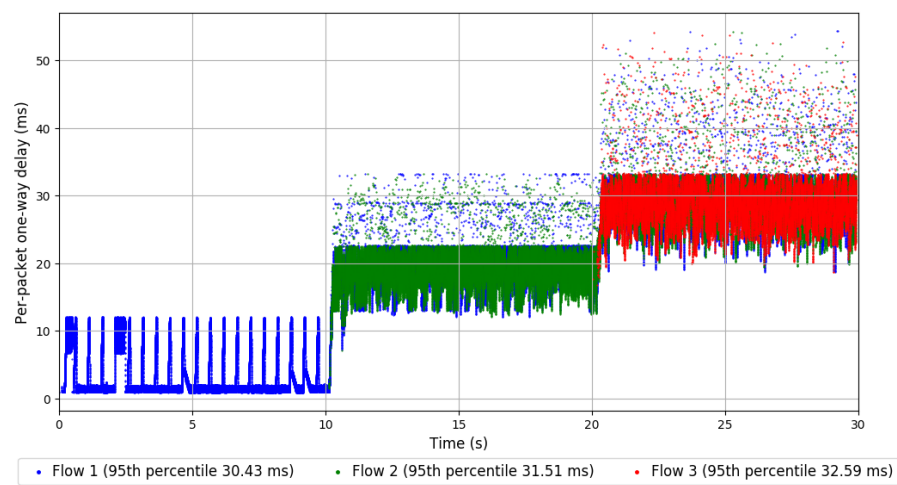
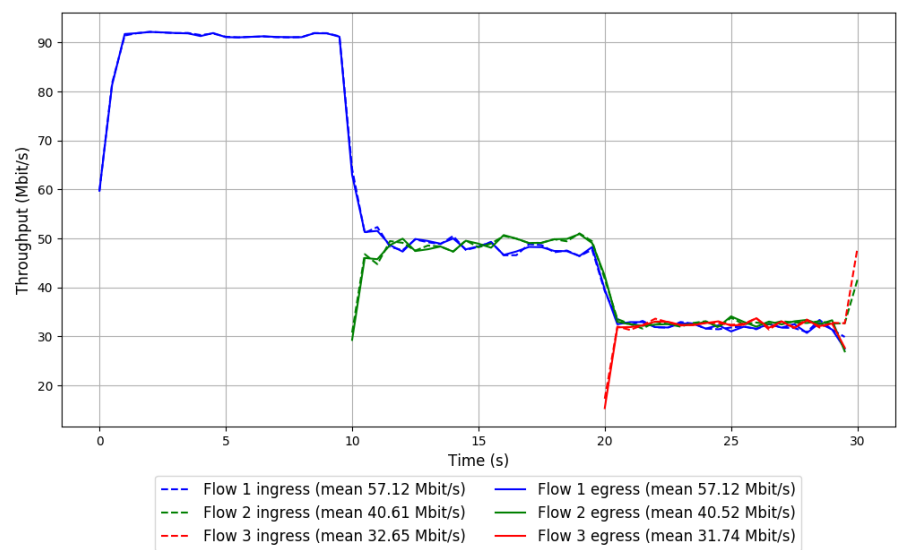


Run 1: Statistics of FillP

Start at: 2018-04-17 13:15:06  
End at: 2018-04-17 13:15:36  
Local clock offset: -5.677 ms  
Remote clock offset: -6.446 ms

# Below is generated by plot.py at 2018-04-17 19:48:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.56 Mbit/s  
95th percentile per-packet one-way delay: 31.371 ms  
Loss rate: 1.87%  
-- Flow 1:  
Average throughput: 57.12 Mbit/s  
95th percentile per-packet one-way delay: 30.428 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 40.52 Mbit/s  
95th percentile per-packet one-way delay: 31.508 ms  
Loss rate: 2.92%  
-- Flow 3:  
Average throughput: 31.74 Mbit/s  
95th percentile per-packet one-way delay: 32.595 ms  
Loss rate: 8.04%

Run 1: Report of FillP — Data Link

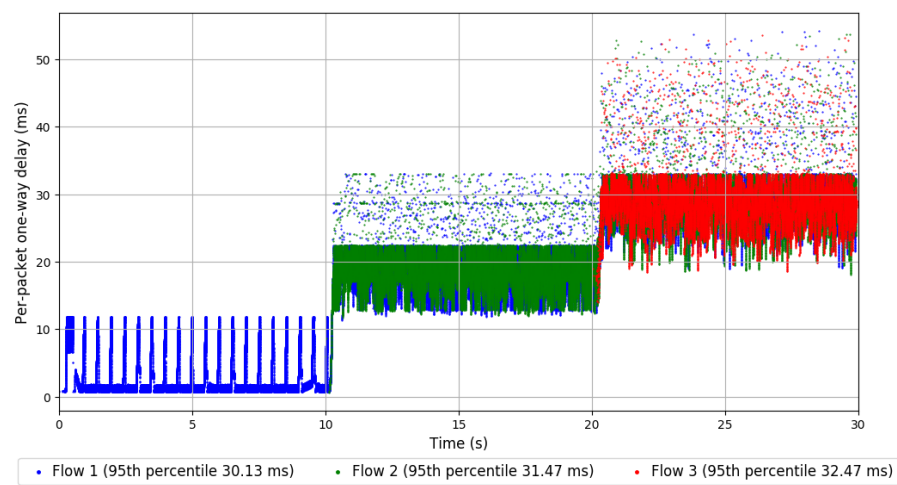
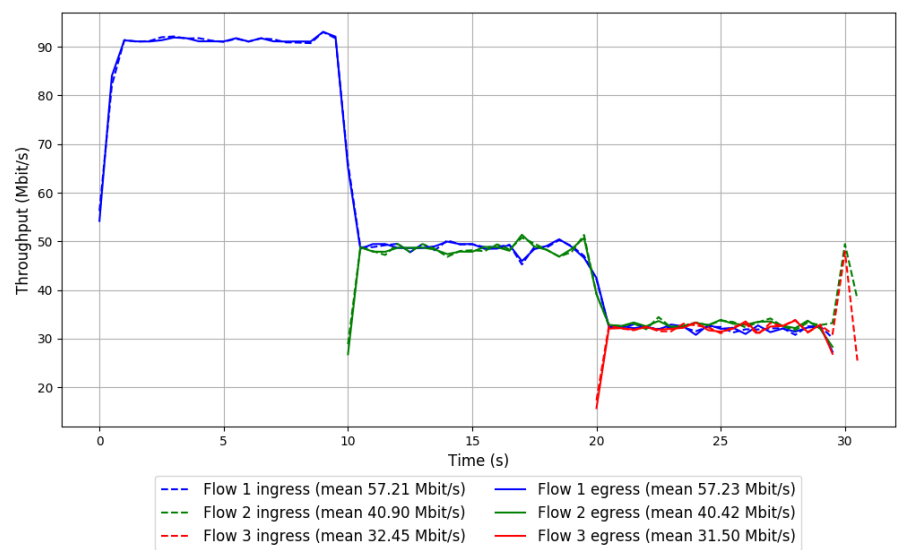


Run 2: Statistics of FillP

Start at: 2018-04-17 13:34:12  
End at: 2018-04-17 13:34:42  
Local clock offset: -5.555 ms  
Remote clock offset: -6.023 ms

# Below is generated by plot.py at 2018-04-17 19:48:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.51 Mbit/s  
95th percentile per-packet one-way delay: 31.248 ms  
Loss rate: 3.06%  
-- Flow 1:  
Average throughput: 57.23 Mbit/s  
95th percentile per-packet one-way delay: 30.127 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 40.42 Mbit/s  
95th percentile per-packet one-way delay: 31.466 ms  
Loss rate: 5.55%  
-- Flow 3:  
Average throughput: 31.50 Mbit/s  
95th percentile per-packet one-way delay: 32.469 ms  
Loss rate: 11.32%

Run 2: Report of FillP — Data Link

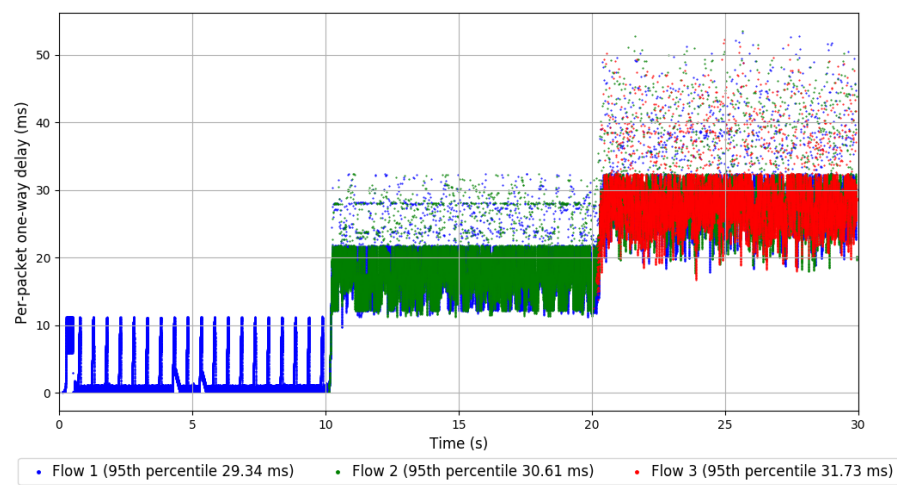
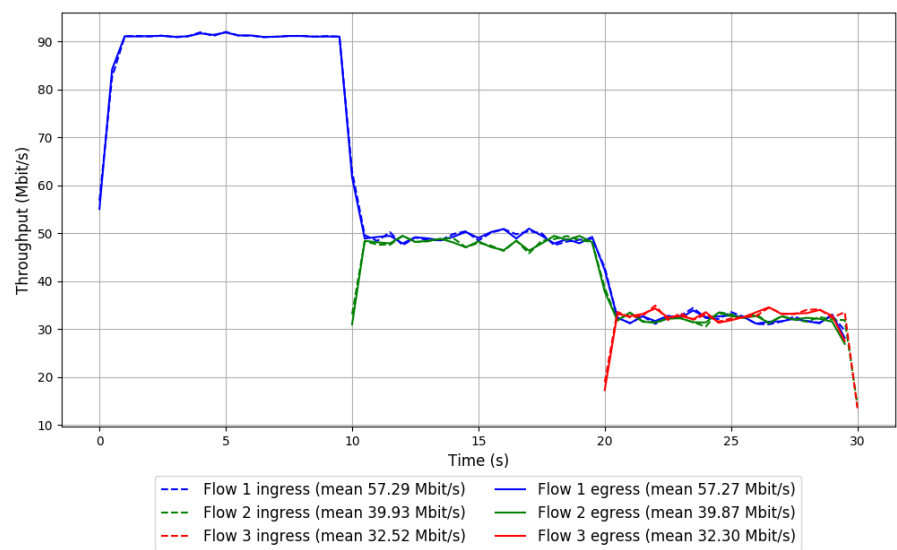


Run 3: Statistics of FillP

Start at: 2018-04-17 13:53:21  
End at: 2018-04-17 13:53:51  
Local clock offset: -6.098 ms  
Remote clock offset: -6.505 ms

# Below is generated by plot.py at 2018-04-17 19:48:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.48 Mbit/s  
95th percentile per-packet one-way delay: 30.401 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 57.27 Mbit/s  
95th percentile per-packet one-way delay: 29.339 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 39.87 Mbit/s  
95th percentile per-packet one-way delay: 30.614 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 32.30 Mbit/s  
95th percentile per-packet one-way delay: 31.734 ms  
Loss rate: 3.21%

Run 3: Report of FillP — Data Link

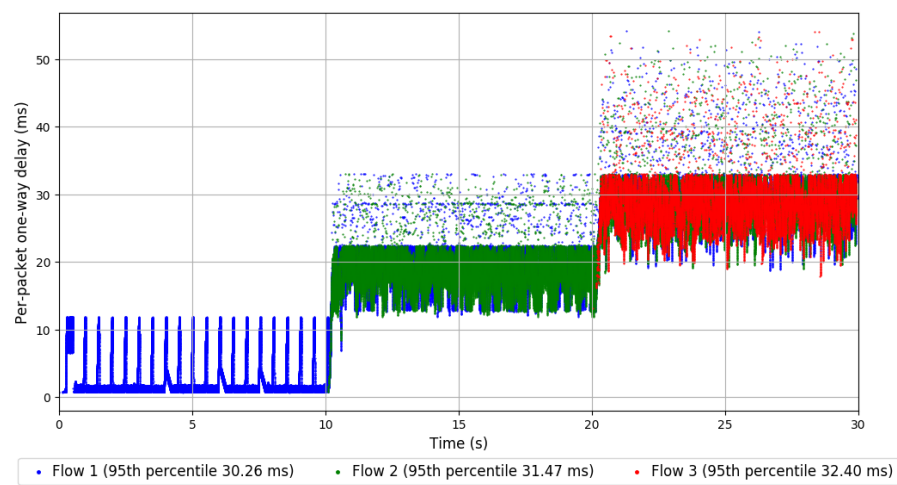
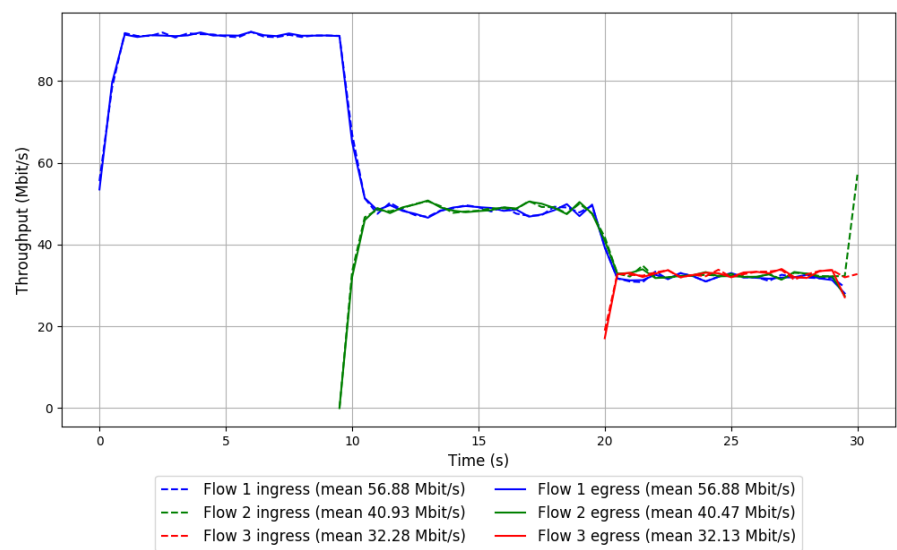


Run 4: Statistics of FillP

Start at: 2018-04-17 14:12:29  
End at: 2018-04-17 14:12:59  
Local clock offset: -5.644 ms  
Remote clock offset: -6.659 ms

# Below is generated by plot.py at 2018-04-17 19:48:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.44 Mbit/s  
95th percentile per-packet one-way delay: 31.233 ms  
Loss rate: 1.86%  
-- Flow 1:  
Average throughput: 56.88 Mbit/s  
95th percentile per-packet one-way delay: 30.262 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 40.47 Mbit/s  
95th percentile per-packet one-way delay: 31.470 ms  
Loss rate: 3.82%  
-- Flow 3:  
Average throughput: 32.13 Mbit/s  
95th percentile per-packet one-way delay: 32.401 ms  
Loss rate: 5.88%

Run 4: Report of FillP — Data Link



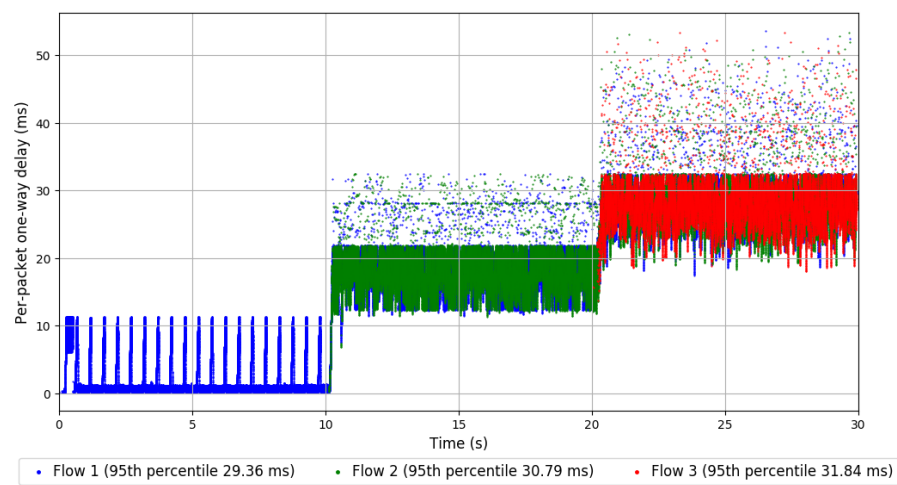
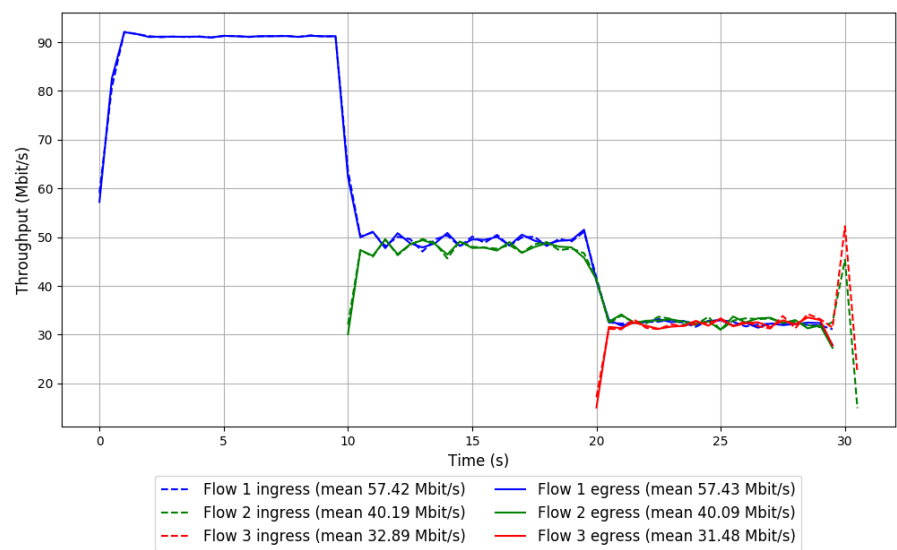


Run 5: Statistics of FillP

Start at: 2018-04-17 14:31:37  
End at: 2018-04-17 14:32:07  
Local clock offset: -6.361 ms  
Remote clock offset: -6.961 ms

# Below is generated by plot.py at 2018-04-17 19:48:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 30.532 ms  
Loss rate: 2.61%  
-- Flow 1:  
Average throughput: 57.43 Mbit/s  
95th percentile per-packet one-way delay: 29.361 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 40.09 Mbit/s  
95th percentile per-packet one-way delay: 30.788 ms  
Loss rate: 4.04%  
-- Flow 3:  
Average throughput: 31.48 Mbit/s  
95th percentile per-packet one-way delay: 31.843 ms  
Loss rate: 11.40%

Run 5: Report of FillP — Data Link

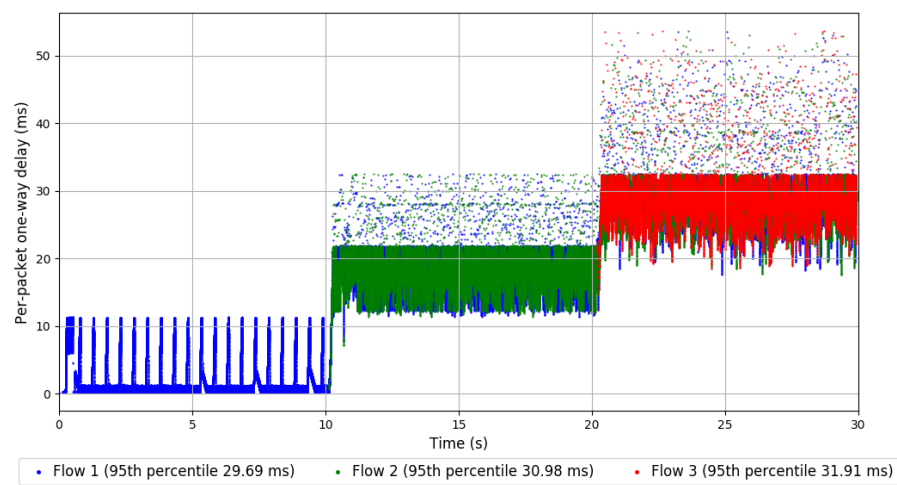
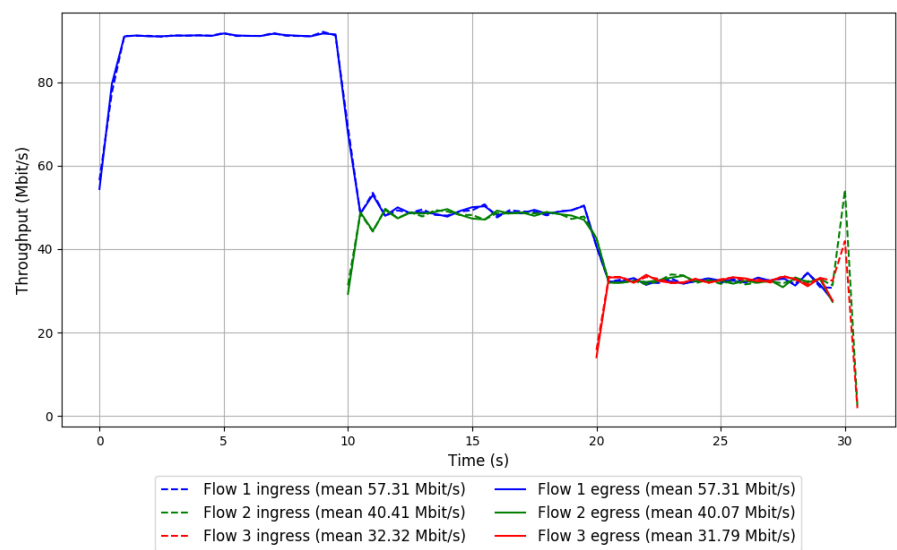


Run 6: Statistics of FillP

Start at: 2018-04-17 14:50:46  
End at: 2018-04-17 14:51:16  
Local clock offset: -6.592 ms  
Remote clock offset: -6.663 ms

# Below is generated by plot.py at 2018-04-17 19:48:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.46 Mbit/s  
95th percentile per-packet one-way delay: 30.750 ms  
Loss rate: 2.04%  
-- Flow 1:  
Average throughput: 57.31 Mbit/s  
95th percentile per-packet one-way delay: 29.687 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 40.07 Mbit/s  
95th percentile per-packet one-way delay: 30.983 ms  
Loss rate: 3.76%  
-- Flow 3:  
Average throughput: 31.79 Mbit/s  
95th percentile per-packet one-way delay: 31.905 ms  
Loss rate: 7.45%

Run 6: Report of FillP — Data Link

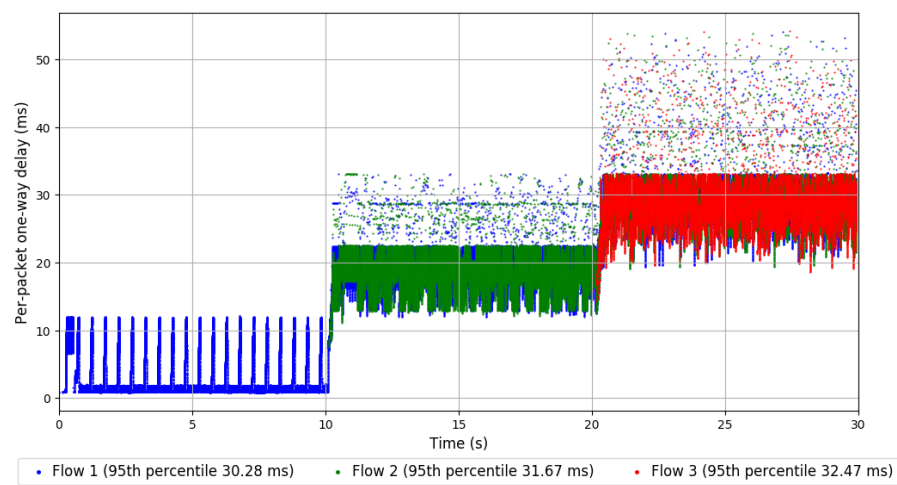
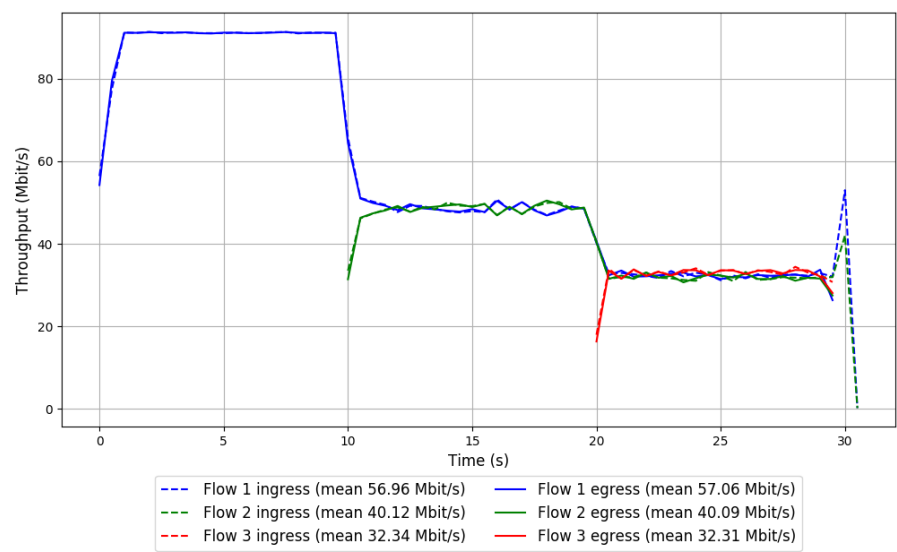


Run 7: Statistics of FillP

Start at: 2018-04-17 15:09:53  
End at: 2018-04-17 15:10:23  
Local clock offset: -6.002 ms  
Remote clock offset: -6.322 ms

# Below is generated by plot.py at 2018-04-17 19:48:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.40 Mbit/s  
95th percentile per-packet one-way delay: 31.339 ms  
Loss rate: 1.97%  
-- Flow 1:  
Average throughput: 57.06 Mbit/s  
95th percentile per-packet one-way delay: 30.282 ms  
Loss rate: 1.73%  
-- Flow 2:  
Average throughput: 40.09 Mbit/s  
95th percentile per-packet one-way delay: 31.674 ms  
Loss rate: 2.96%  
-- Flow 3:  
Average throughput: 32.31 Mbit/s  
95th percentile per-packet one-way delay: 32.470 ms  
Loss rate: 0.71%

Run 7: Report of FillP — Data Link

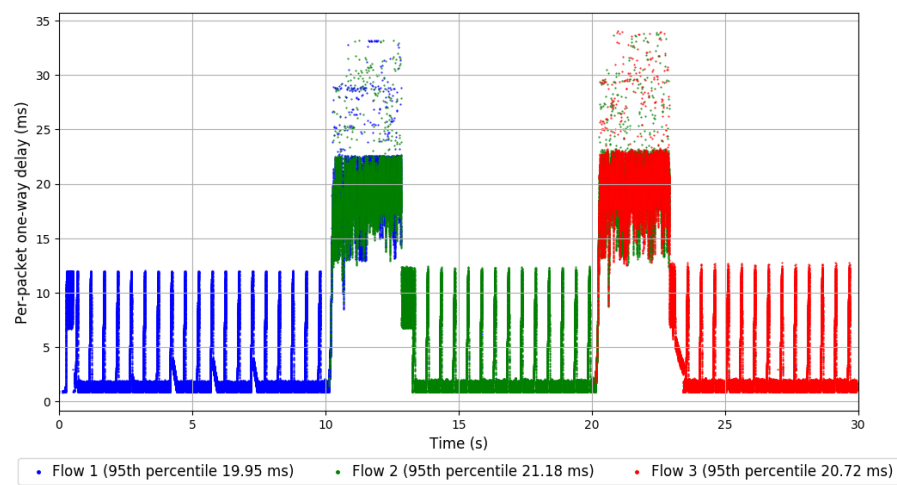
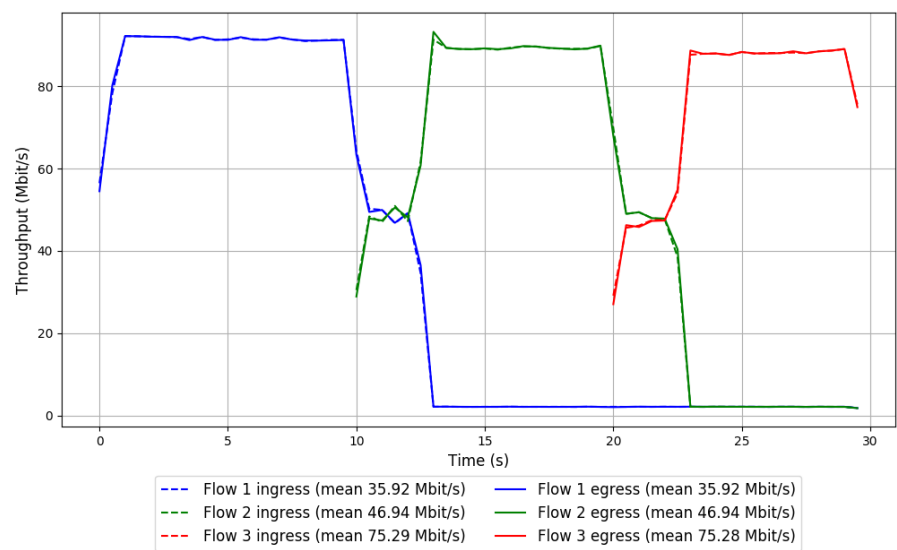


Run 8: Statistics of FillP

Start at: 2018-04-17 15:29:02  
End at: 2018-04-17 15:29:32  
Local clock offset: -6.131 ms  
Remote clock offset: -6.547 ms

# Below is generated by plot.py at 2018-04-17 19:49:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.05 Mbit/s  
95th percentile per-packet one-way delay: 20.726 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 35.92 Mbit/s  
95th percentile per-packet one-way delay: 19.948 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.94 Mbit/s  
95th percentile per-packet one-way delay: 21.176 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 75.28 Mbit/s  
95th percentile per-packet one-way delay: 20.721 ms  
Loss rate: 0.05%

Run 8: Report of FillP — Data Link



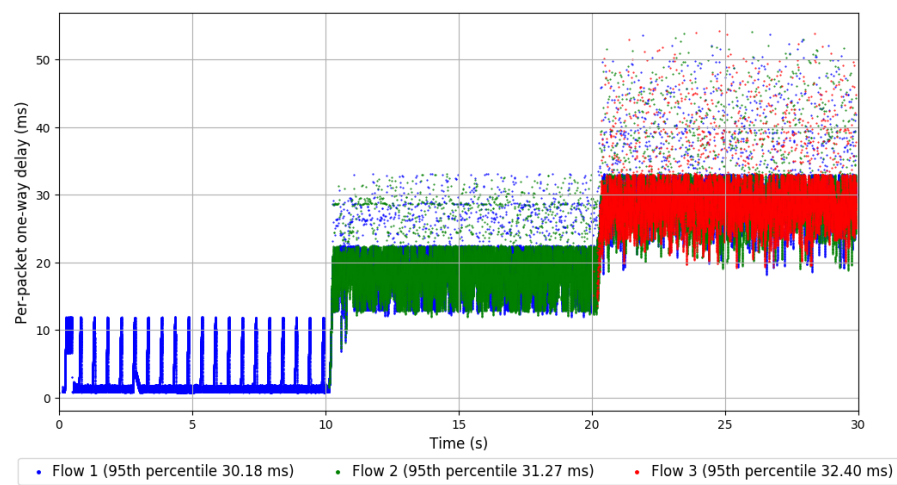
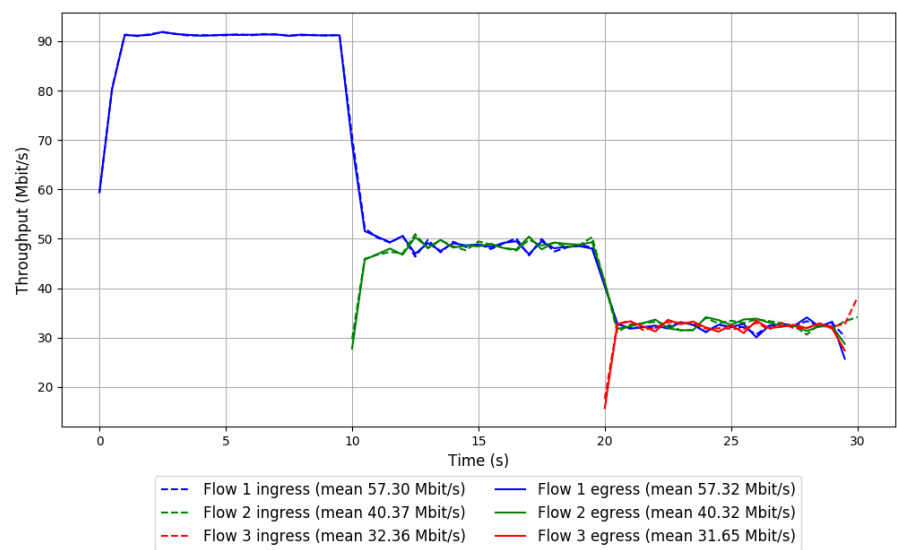


Run 9: Statistics of FillP

Start at: 2018-04-17 15:48:10  
End at: 2018-04-17 15:48:40  
Local clock offset: -6.306 ms  
Remote clock offset: -6.822 ms

# Below is generated by plot.py at 2018-04-17 19:49:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 31.129 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 57.32 Mbit/s  
95th percentile per-packet one-way delay: 30.184 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 40.32 Mbit/s  
95th percentile per-packet one-way delay: 31.268 ms  
Loss rate: 2.44%  
-- Flow 3:  
Average throughput: 31.65 Mbit/s  
95th percentile per-packet one-way delay: 32.395 ms  
Loss rate: 6.74%

Run 9: Report of FillP — Data Link

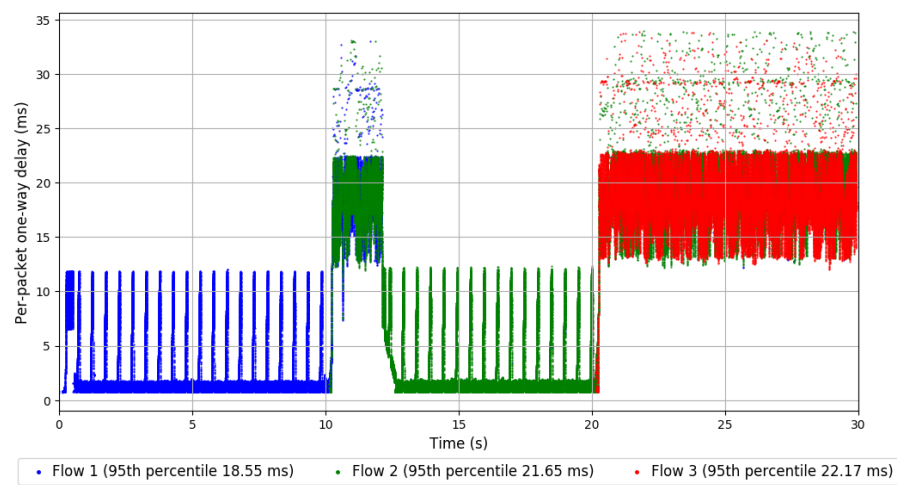
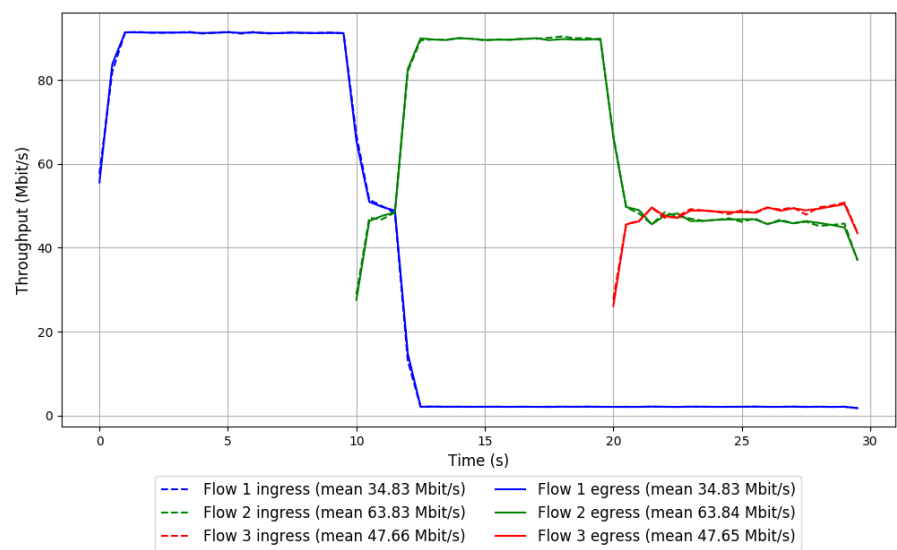


Run 10: Statistics of FillP

Start at: 2018-04-17 16:07:16  
End at: 2018-04-17 16:07:46  
Local clock offset: -6.408 ms  
Remote clock offset: -7.067 ms

# Below is generated by plot.py at 2018-04-17 19:49:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.05 Mbit/s  
95th percentile per-packet one-way delay: 21.437 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 34.83 Mbit/s  
95th percentile per-packet one-way delay: 18.546 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 63.84 Mbit/s  
95th percentile per-packet one-way delay: 21.648 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 47.65 Mbit/s  
95th percentile per-packet one-way delay: 22.174 ms  
Loss rate: 0.24%

Run 10: Report of FillP — Data Link

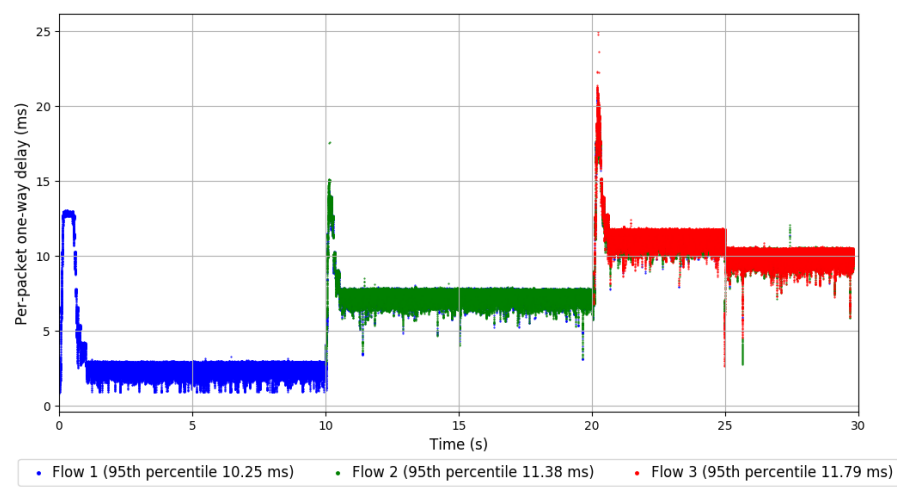
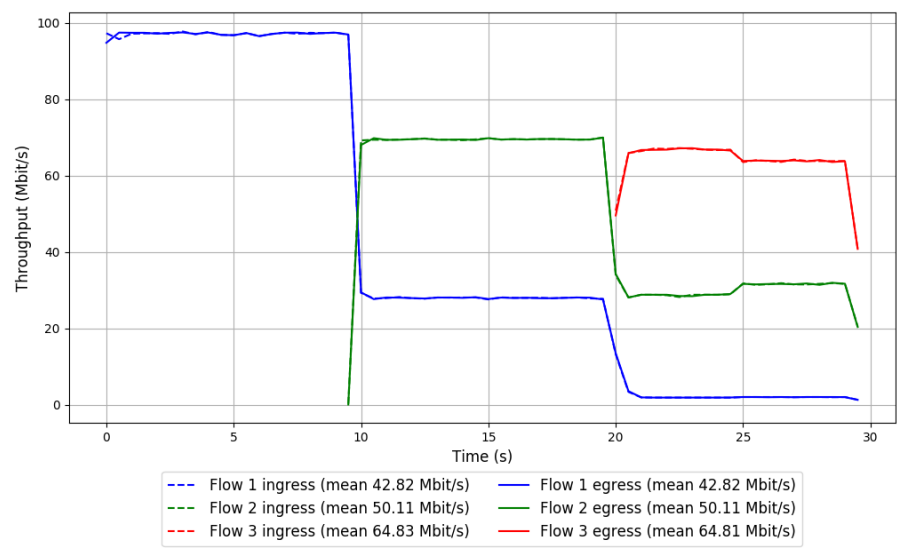


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 13:09:29  
End at: 2018-04-17 13:09:59  
Local clock offset: -5.664 ms  
Remote clock offset: -6.478 ms

# Below is generated by plot.py at 2018-04-17 19:49:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.34 Mbit/s  
95th percentile per-packet one-way delay: 11.682 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 42.82 Mbit/s  
95th percentile per-packet one-way delay: 10.248 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 50.11 Mbit/s  
95th percentile per-packet one-way delay: 11.382 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 64.81 Mbit/s  
95th percentile per-packet one-way delay: 11.787 ms  
Loss rate: 0.11%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 13:28:35

End at: 2018-04-17 13:29:05

Local clock offset: -4.816 ms

Remote clock offset: -6.18 ms

# Below is generated by plot.py at 2018-04-17 19:49:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.31 Mbit/s

95th percentile per-packet one-way delay: 13.032 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 42.68 Mbit/s

95th percentile per-packet one-way delay: 11.415 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 13.163 ms

Loss rate: 0.04%

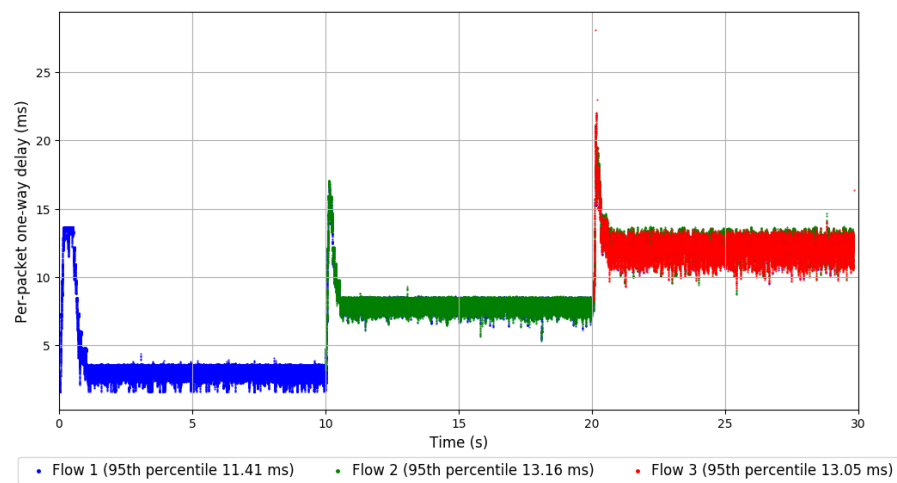
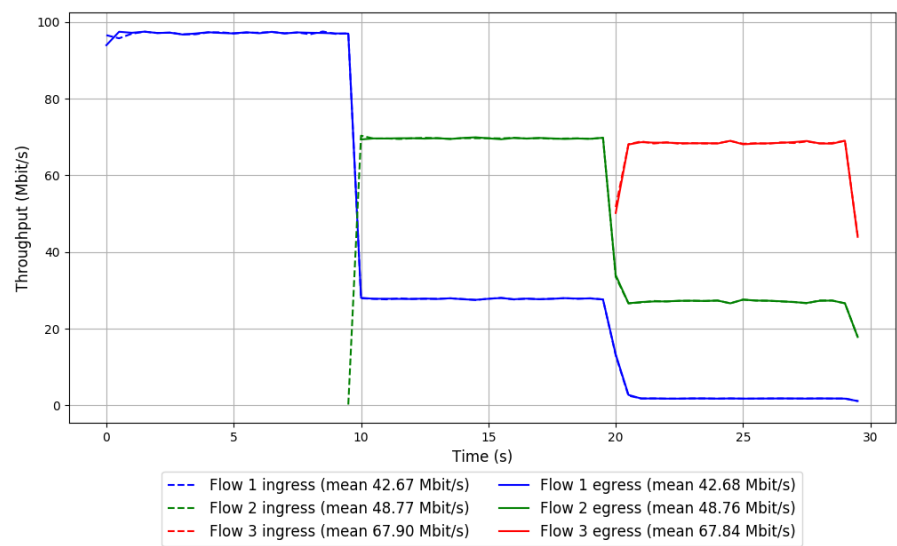
-- Flow 3:

Average throughput: 67.84 Mbit/s

95th percentile per-packet one-way delay: 13.053 ms

Loss rate: 0.14%

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



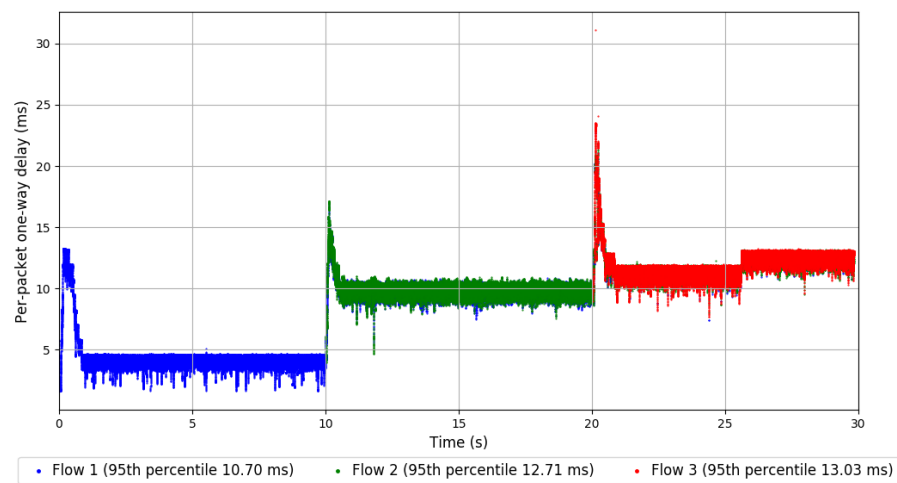
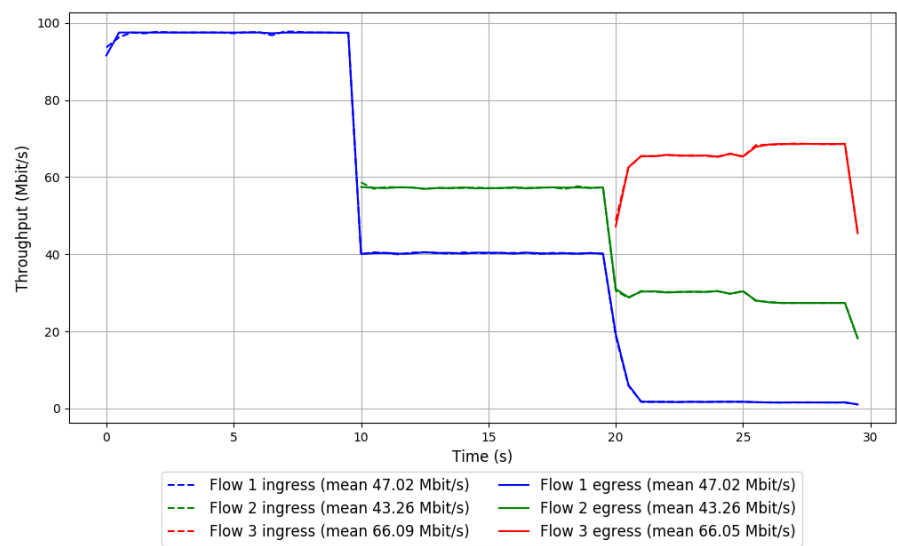


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 13:47:44  
End at: 2018-04-17 13:48:14  
Local clock offset: -4.619 ms  
Remote clock offset: -6.447 ms

# Below is generated by plot.py at 2018-04-17 19:49:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 12.919 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 47.02 Mbit/s  
95th percentile per-packet one-way delay: 10.699 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 43.26 Mbit/s  
95th percentile per-packet one-way delay: 12.710 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 66.05 Mbit/s  
95th percentile per-packet one-way delay: 13.034 ms  
Loss rate: 0.14%

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

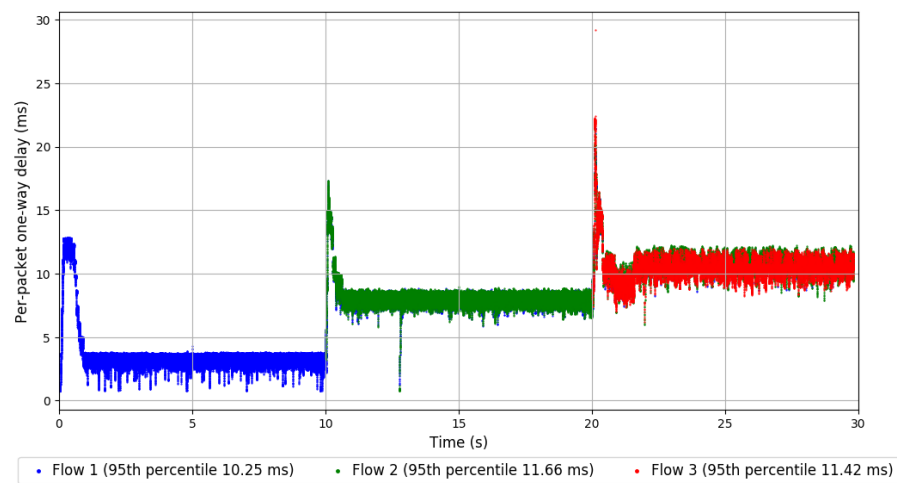
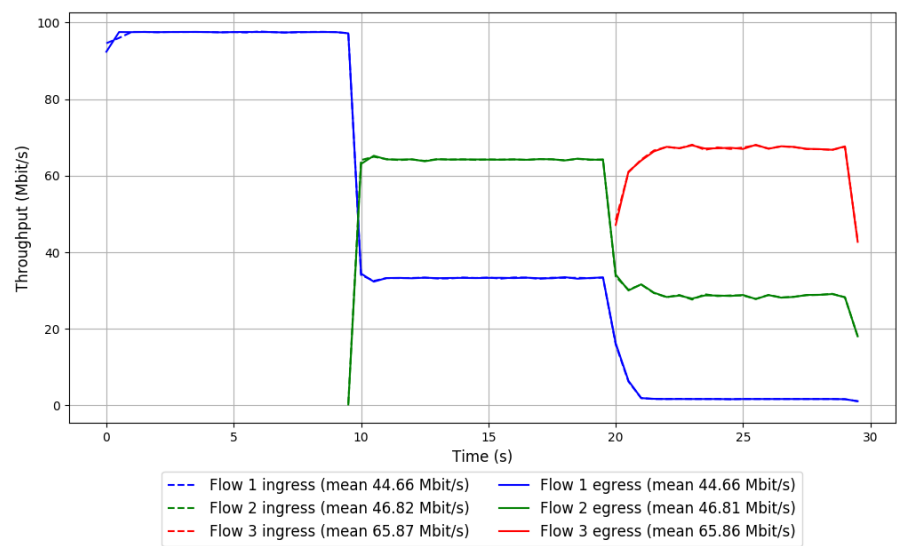


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 14:06:52  
End at: 2018-04-17 14:07:22  
Local clock offset: -5.617 ms  
Remote clock offset: -6.564 ms

# Below is generated by plot.py at 2018-04-17 19:49:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 11.481 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 44.66 Mbit/s  
95th percentile per-packet one-way delay: 10.248 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.81 Mbit/s  
95th percentile per-packet one-way delay: 11.664 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 65.86 Mbit/s  
95th percentile per-packet one-way delay: 11.420 ms  
Loss rate: 0.12%

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

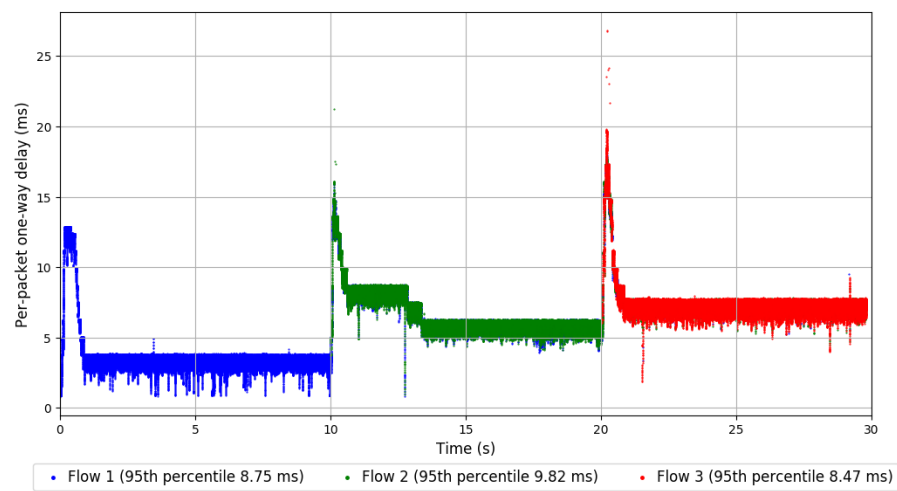
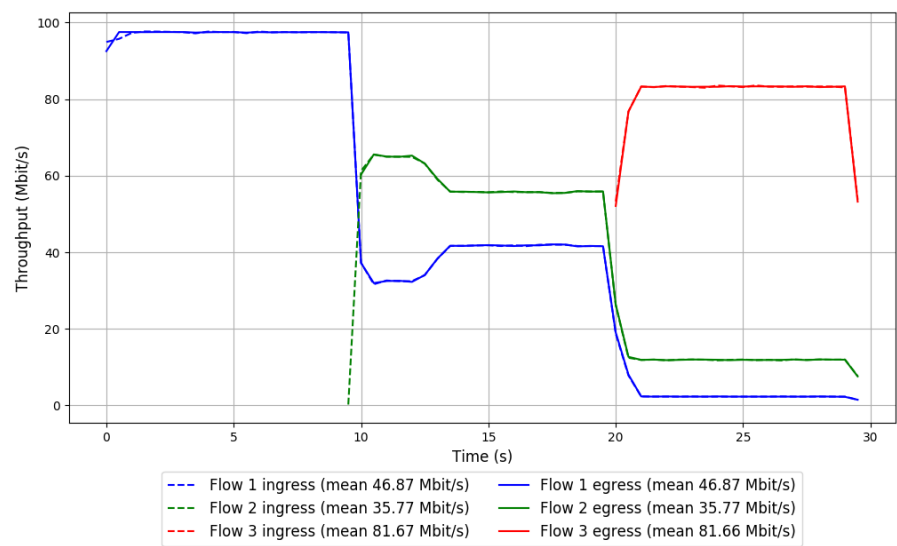


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 14:26:01  
End at: 2018-04-17 14:26:31  
Local clock offset: -5.593 ms  
Remote clock offset: -6.941 ms

# Below is generated by plot.py at 2018-04-17 19:50:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 8.749 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 46.87 Mbit/s  
95th percentile per-packet one-way delay: 8.753 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.77 Mbit/s  
95th percentile per-packet one-way delay: 9.816 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 81.66 Mbit/s  
95th percentile per-packet one-way delay: 8.475 ms  
Loss rate: 0.10%

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

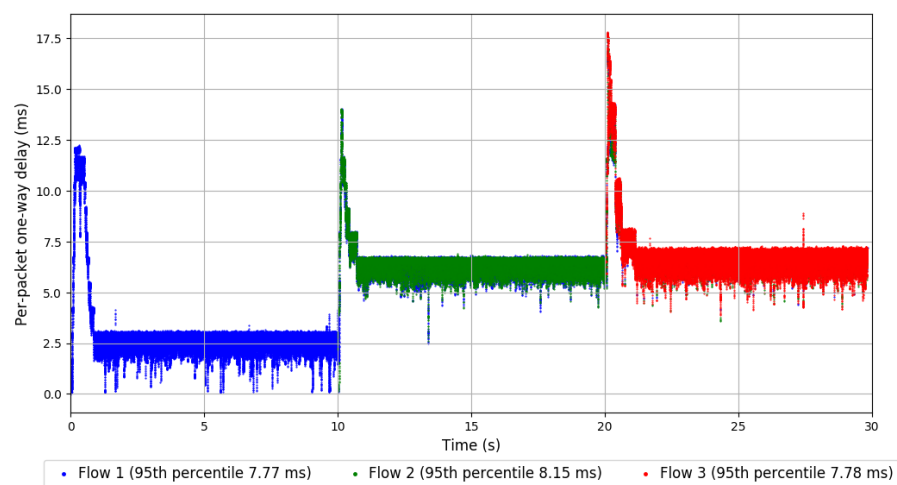
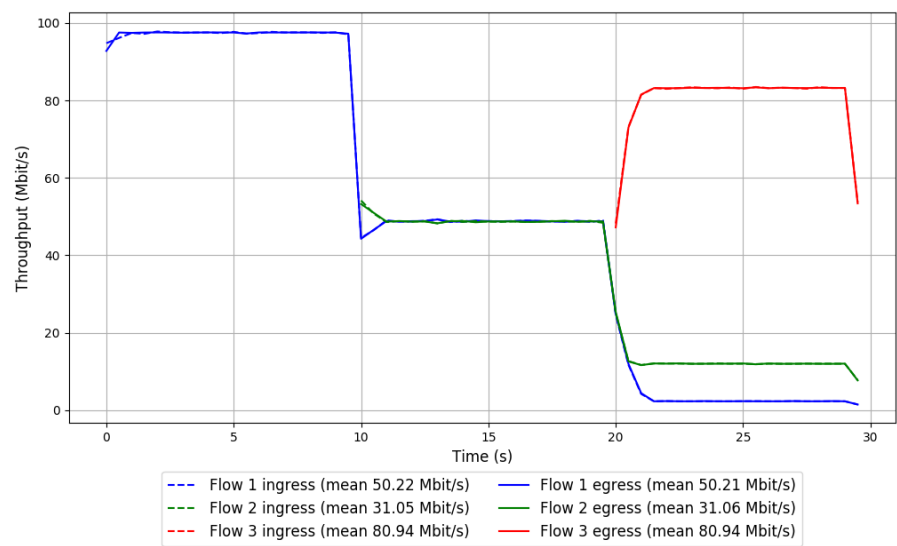


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 14:45:09  
End at: 2018-04-17 14:45:39  
Local clock offset: -6.61 ms  
Remote clock offset: -6.767 ms

# Below is generated by plot.py at 2018-04-17 19:50:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 7.827 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 50.21 Mbit/s  
95th percentile per-packet one-way delay: 7.771 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.06 Mbit/s  
95th percentile per-packet one-way delay: 8.152 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 80.94 Mbit/s  
95th percentile per-packet one-way delay: 7.784 ms  
Loss rate: 0.09%

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



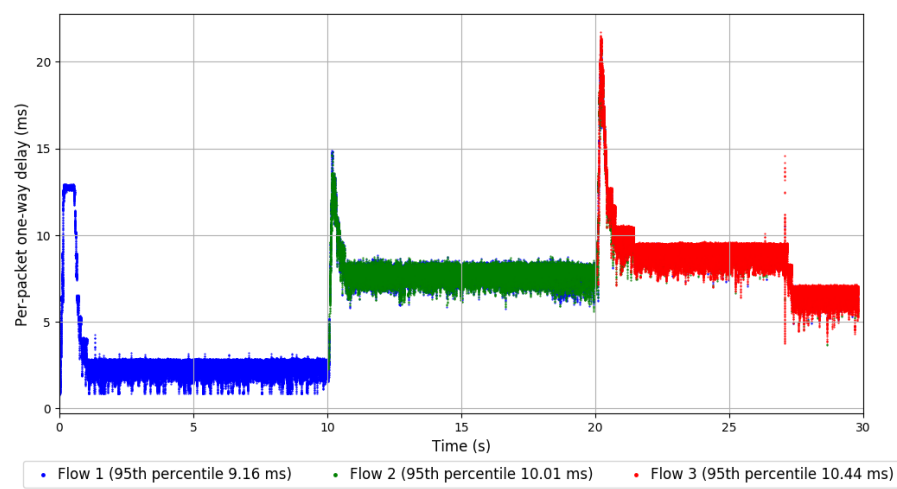
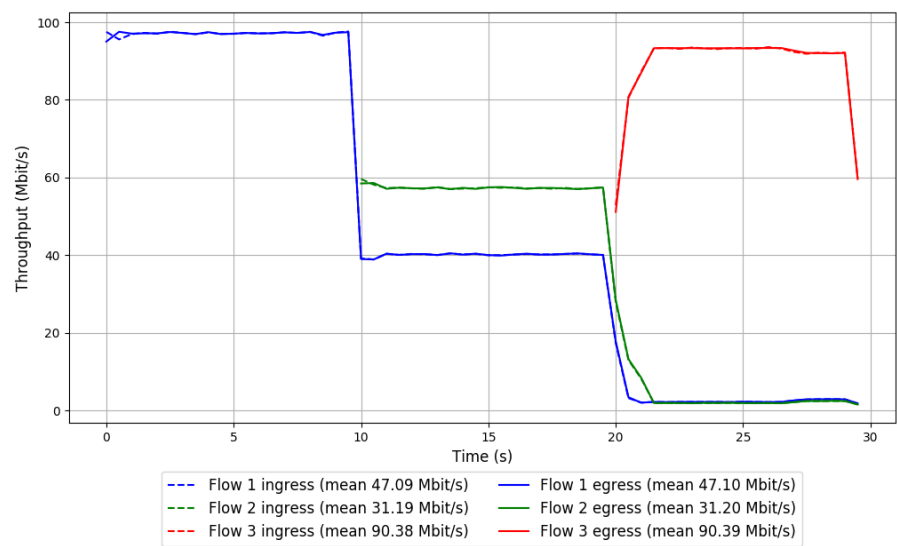


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 15:04:17  
End at: 2018-04-17 15:04:47  
Local clock offset: -5.936 ms  
Remote clock offset: -6.369 ms

# Below is generated by plot.py at 2018-04-17 19:50:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.39 Mbit/s  
95th percentile per-packet one-way delay: 10.321 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 47.10 Mbit/s  
95th percentile per-packet one-way delay: 9.165 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.20 Mbit/s  
95th percentile per-packet one-way delay: 10.010 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 90.39 Mbit/s  
95th percentile per-packet one-way delay: 10.438 ms  
Loss rate: 0.08%

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

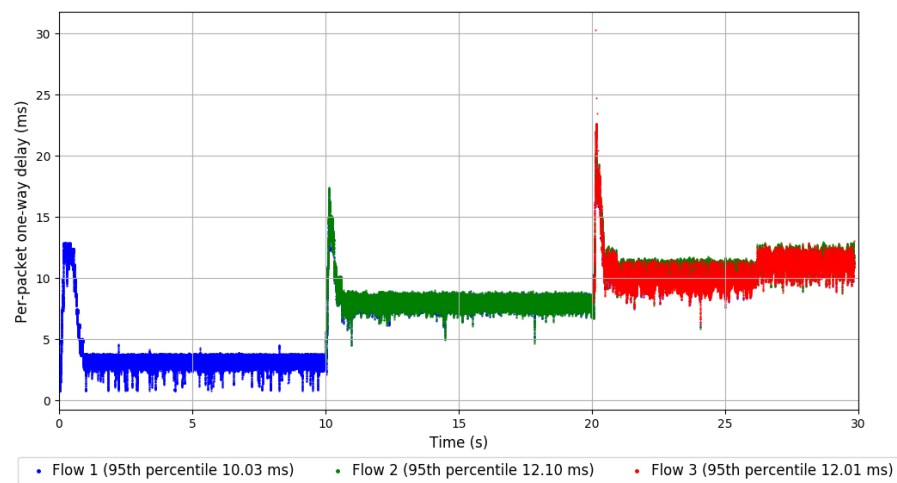
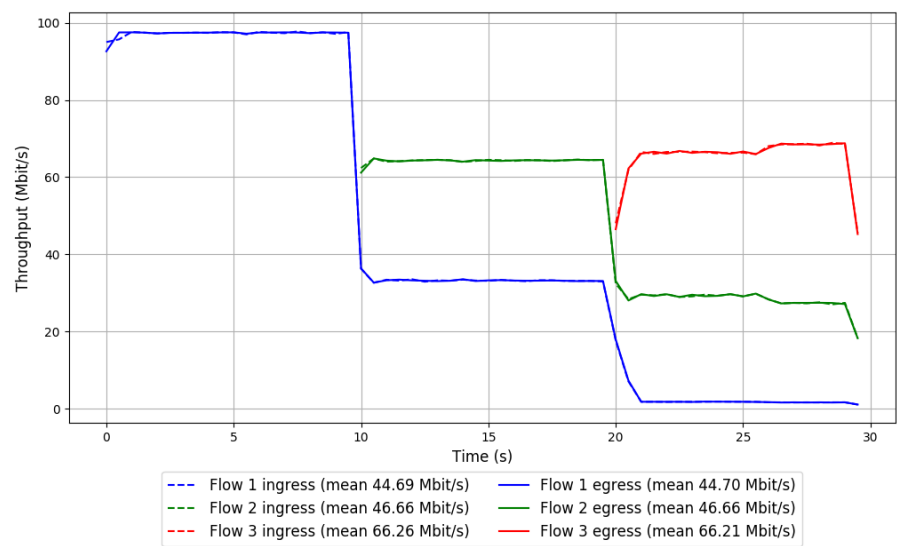


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 15:23:25  
End at: 2018-04-17 15:23:55  
Local clock offset: -6.126 ms  
Remote clock offset: -6.364 ms

# Below is generated by plot.py at 2018-04-17 19:50:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.41 Mbit/s  
95th percentile per-packet one-way delay: 11.899 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 44.70 Mbit/s  
95th percentile per-packet one-way delay: 10.026 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.66 Mbit/s  
95th percentile per-packet one-way delay: 12.100 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 66.21 Mbit/s  
95th percentile per-packet one-way delay: 12.012 ms  
Loss rate: 0.15%

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

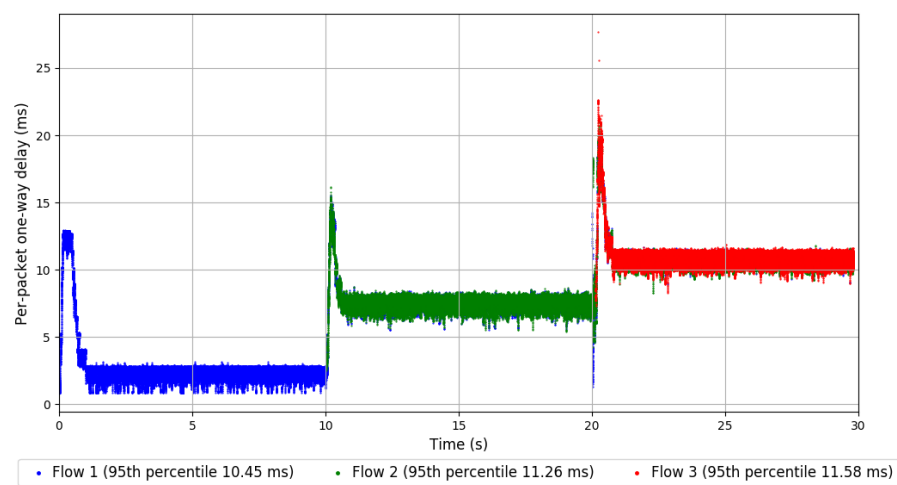
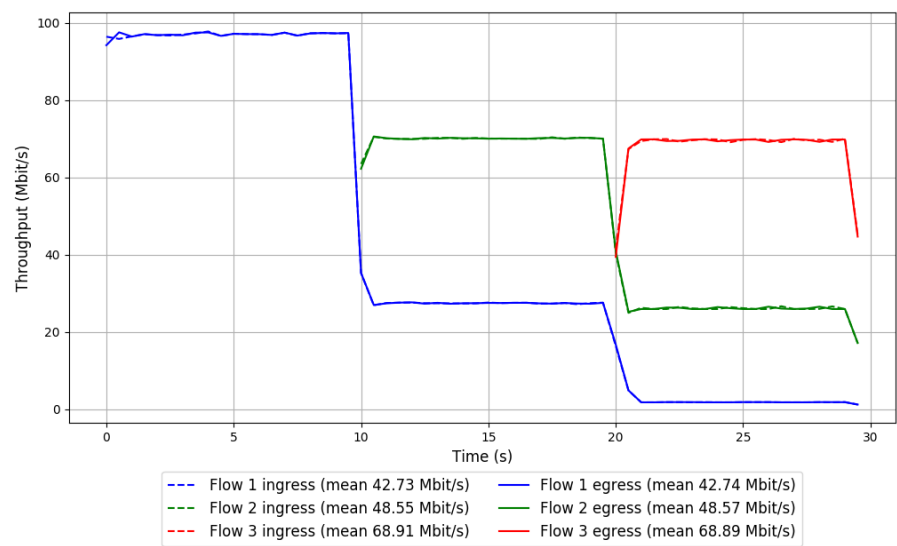


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 15:42:33  
End at: 2018-04-17 15:43:03  
Local clock offset: -6.199 ms  
Remote clock offset: -6.739 ms

# Below is generated by plot.py at 2018-04-17 19:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.33 Mbit/s  
95th percentile per-packet one-way delay: 11.375 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 42.74 Mbit/s  
95th percentile per-packet one-way delay: 10.446 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 48.57 Mbit/s  
95th percentile per-packet one-way delay: 11.264 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 68.89 Mbit/s  
95th percentile per-packet one-way delay: 11.577 ms  
Loss rate: 0.14%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 16:01:41

End at: 2018-04-17 16:02:11

Local clock offset: -7.13 ms

Remote clock offset: -7.0 ms

# Below is generated by plot.py at 2018-04-17 19:51:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.42 Mbit/s

95th percentile per-packet one-way delay: 8.806 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 48.76 Mbit/s

95th percentile per-packet one-way delay: 8.544 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.93 Mbit/s

95th percentile per-packet one-way delay: 9.118 ms

Loss rate: 0.02%

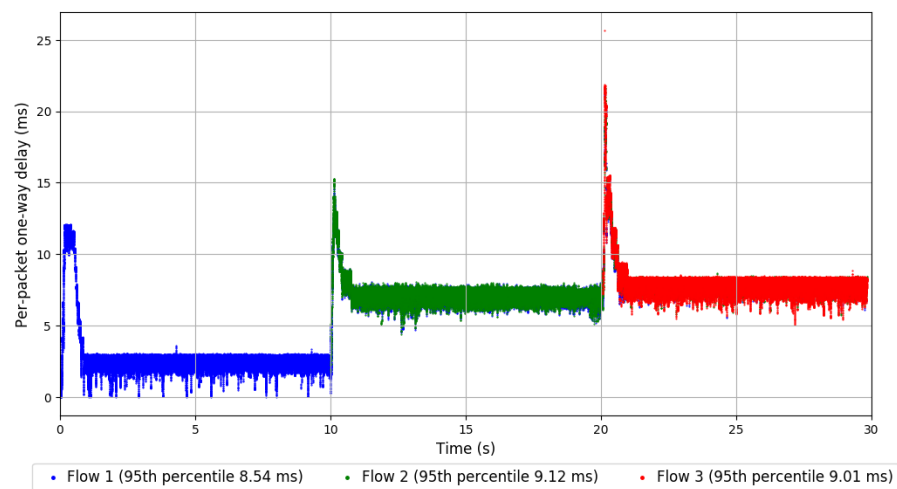
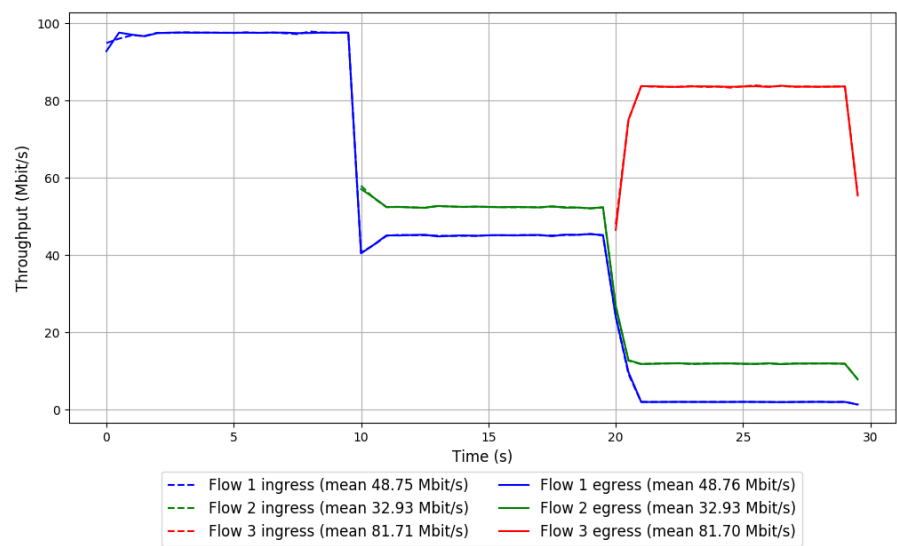
-- Flow 3:

Average throughput: 81.70 Mbit/s

95th percentile per-packet one-way delay: 9.005 ms

Loss rate: 0.10%

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



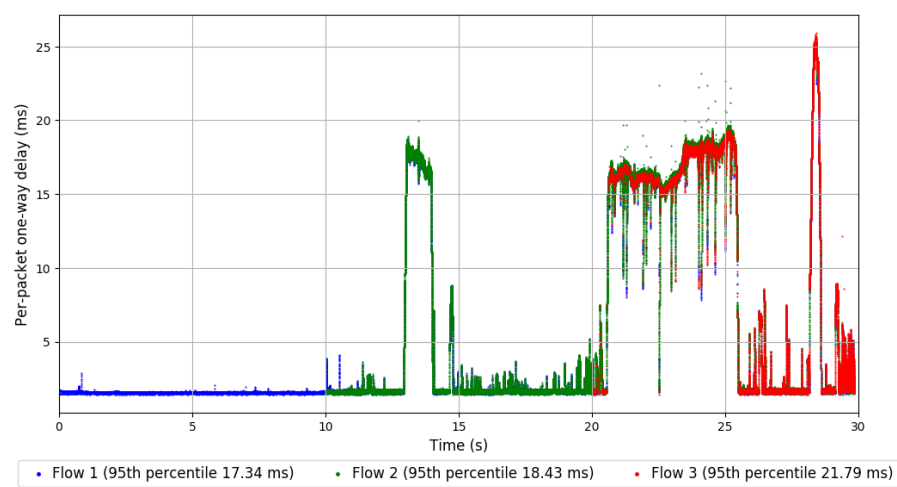
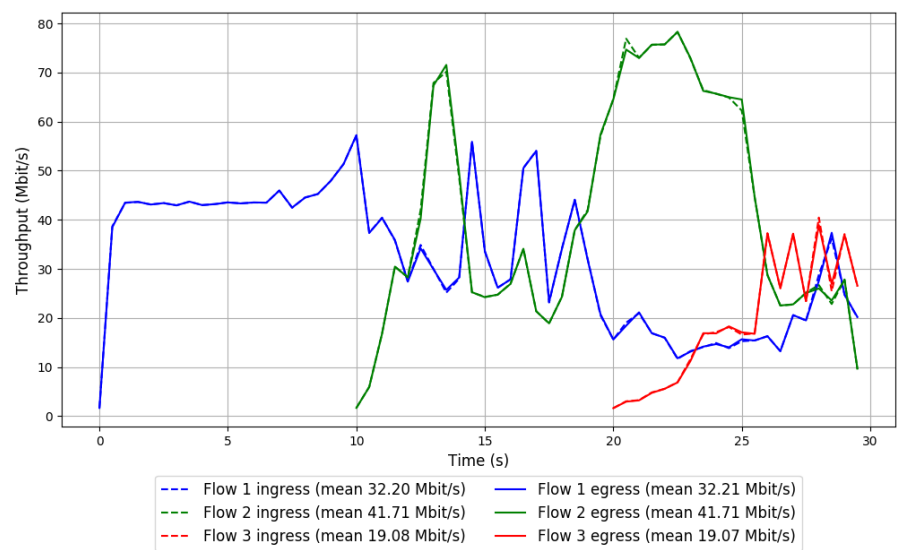


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 13:20:41  
End at: 2018-04-17 13:21:11  
Local clock offset: -4.963 ms  
Remote clock offset: -6.296 ms

# Below is generated by plot.py at 2018-04-17 19:51:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.21 Mbit/s  
95th percentile per-packet one-way delay: 18.267 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 32.21 Mbit/s  
95th percentile per-packet one-way delay: 17.341 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.71 Mbit/s  
95th percentile per-packet one-way delay: 18.432 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 19.07 Mbit/s  
95th percentile per-packet one-way delay: 21.788 ms  
Loss rate: 0.04%

Run 1: Report of PCC-Vivace — Data Link

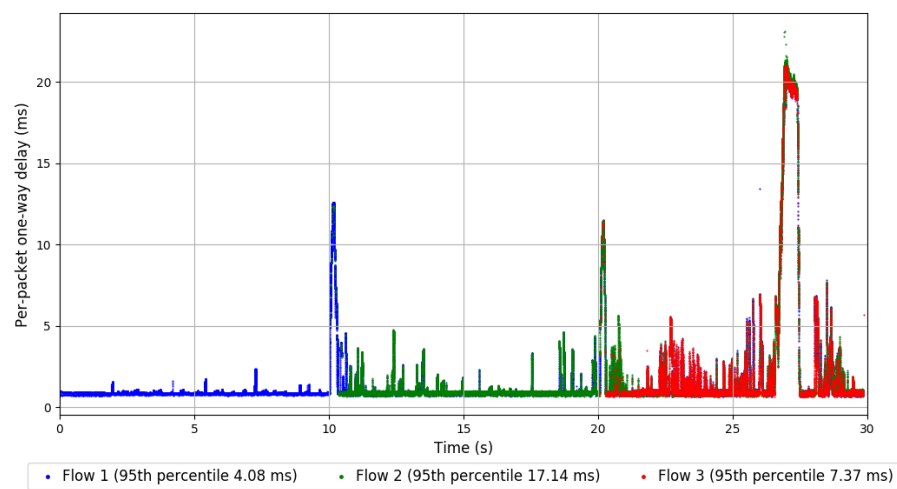
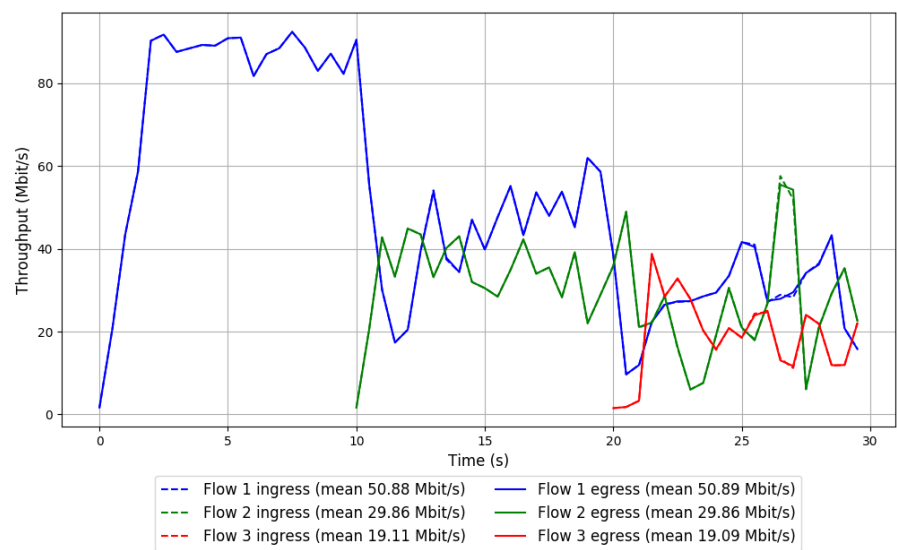


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 13:39:49  
End at: 2018-04-17 13:40:19  
Local clock offset: -5.392 ms  
Remote clock offset: -6.158 ms

# Below is generated by plot.py at 2018-04-17 19:51:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.00 Mbit/s  
95th percentile per-packet one-way delay: 6.335 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 50.89 Mbit/s  
95th percentile per-packet one-way delay: 4.075 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 29.86 Mbit/s  
95th percentile per-packet one-way delay: 17.139 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 19.09 Mbit/s  
95th percentile per-packet one-way delay: 7.373 ms  
Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 13:58:58

End at: 2018-04-17 13:59:28

Local clock offset: -4.662 ms

Remote clock offset: -6.54 ms

# Below is generated by plot.py at 2018-04-17 19:51:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 5.273 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 36.33 Mbit/s

95th percentile per-packet one-way delay: 4.499 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.98 Mbit/s

95th percentile per-packet one-way delay: 6.094 ms

Loss rate: 0.01%

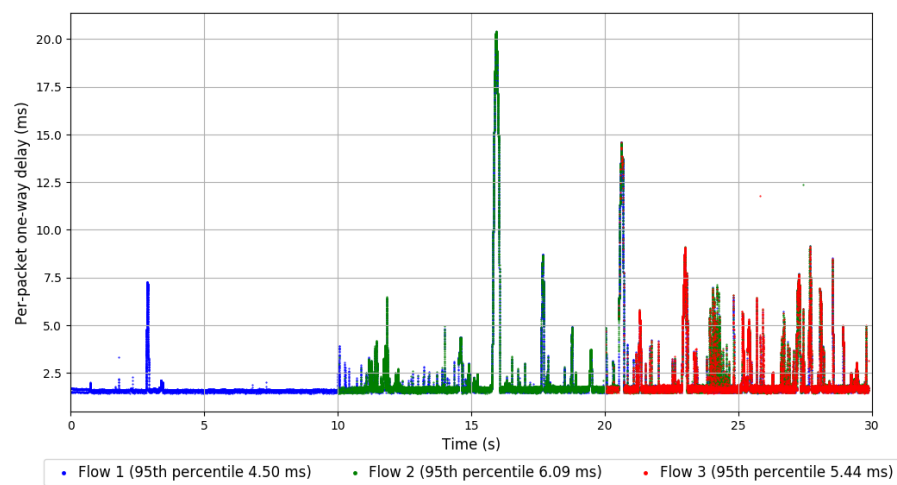
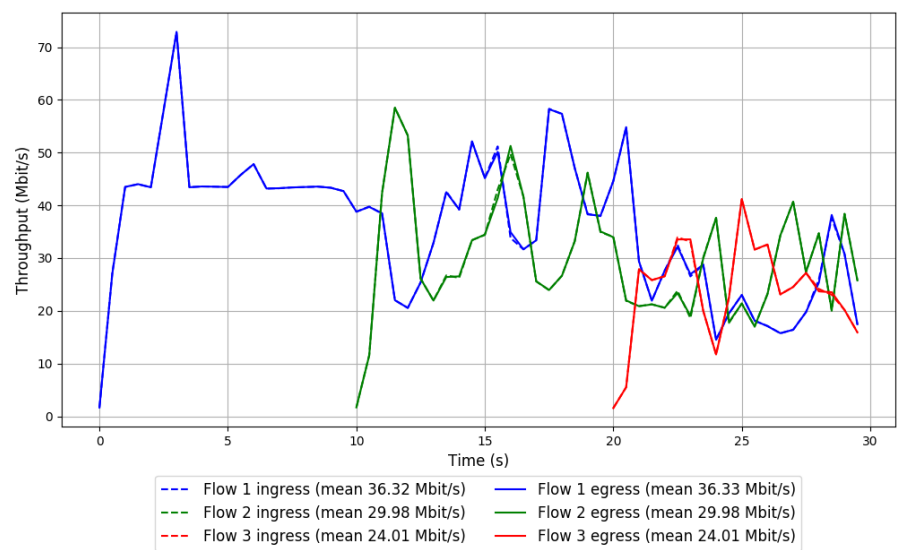
-- Flow 3:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 5.440 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link

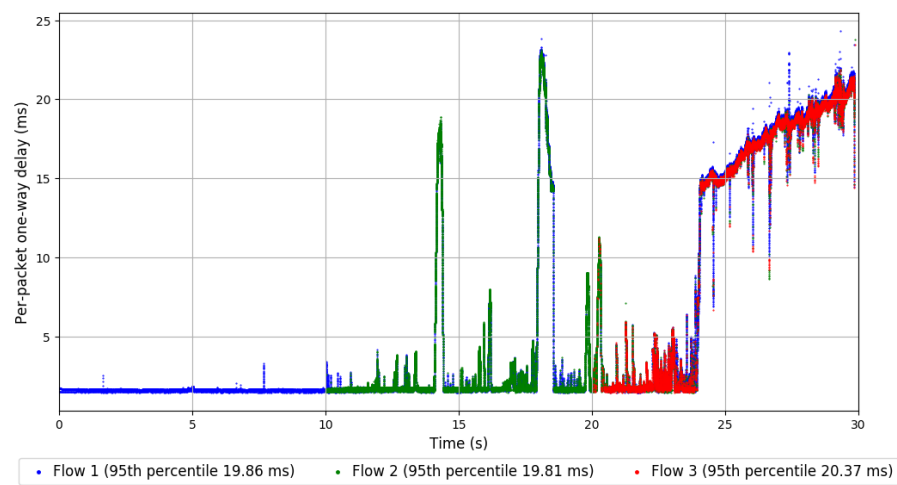
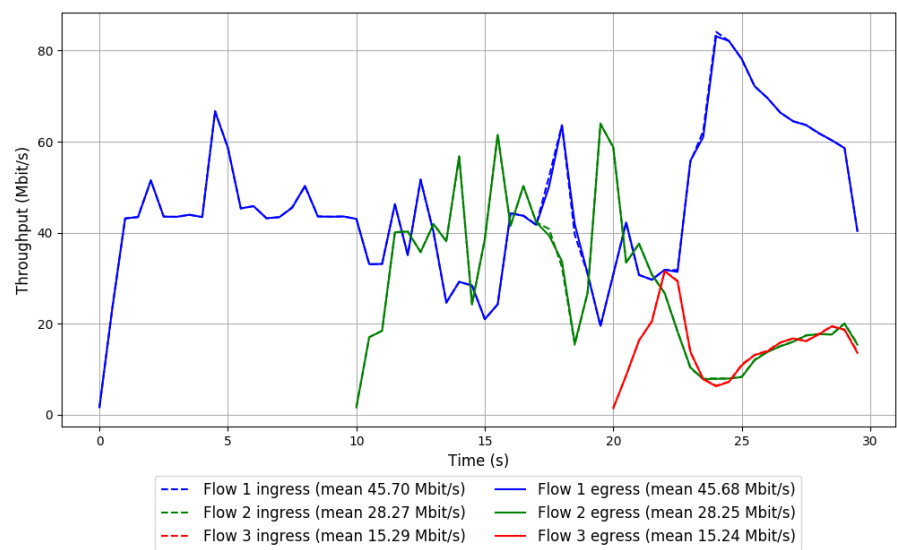


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 14:18:06  
End at: 2018-04-17 14:18:36  
Local clock offset: -4.854 ms  
Remote clock offset: -6.937 ms

# Below is generated by plot.py at 2018-04-17 19:51:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.47 Mbit/s  
95th percentile per-packet one-way delay: 19.929 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 45.68 Mbit/s  
95th percentile per-packet one-way delay: 19.863 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 28.25 Mbit/s  
95th percentile per-packet one-way delay: 19.808 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 15.24 Mbit/s  
95th percentile per-packet one-way delay: 20.373 ms  
Loss rate: 0.33%

Run 4: Report of PCC-Vivace — Data Link



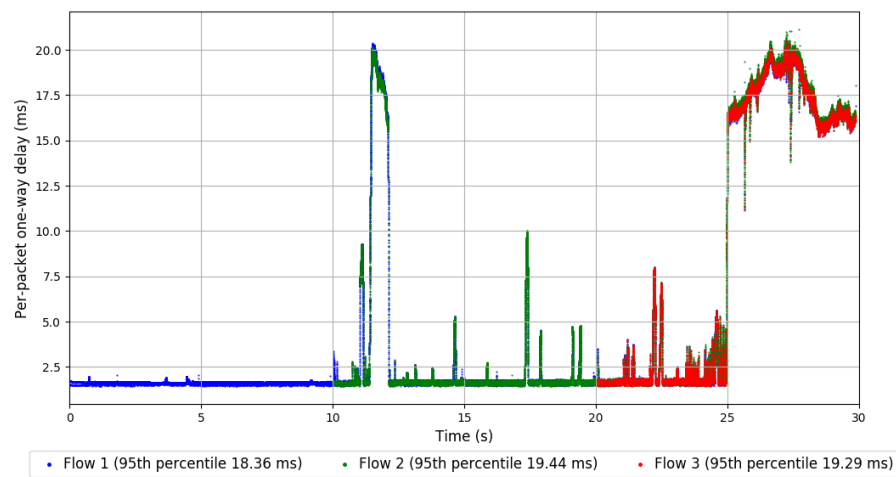
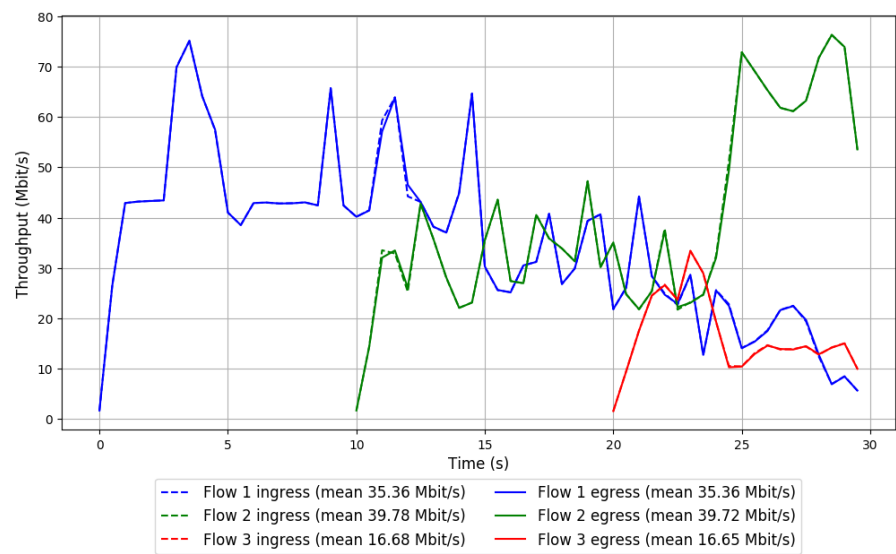


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 14:37:15  
End at: 2018-04-17 14:37:45  
Local clock offset: -4.995 ms  
Remote clock offset: -6.847 ms

# Below is generated by plot.py at 2018-04-17 19:51:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.25 Mbit/s  
95th percentile per-packet one-way delay: 19.169 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 35.36 Mbit/s  
95th percentile per-packet one-way delay: 18.363 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 39.72 Mbit/s  
95th percentile per-packet one-way delay: 19.443 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 16.65 Mbit/s  
95th percentile per-packet one-way delay: 19.292 ms  
Loss rate: 0.16%

Run 5: Report of PCC-Vivace — Data Link

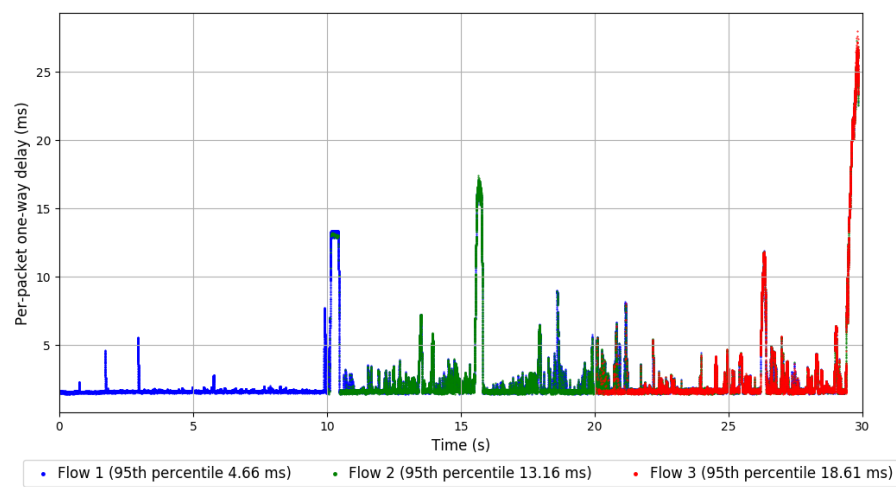
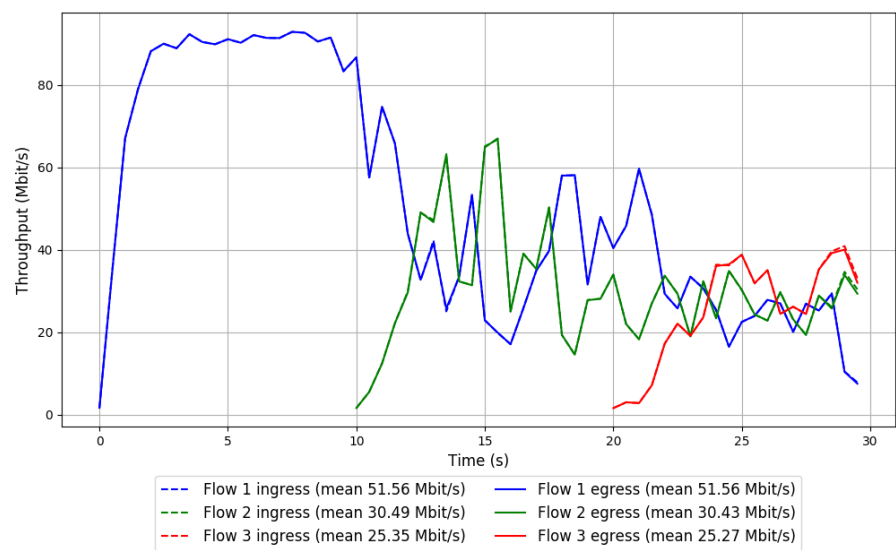


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 14:56:22  
End at: 2018-04-17 14:56:52  
Local clock offset: -5.141 ms  
Remote clock offset: -6.487 ms

# Below is generated by plot.py at 2018-04-17 19:52:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.09 Mbit/s  
95th percentile per-packet one-way delay: 7.430 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 51.56 Mbit/s  
95th percentile per-packet one-way delay: 4.664 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 30.43 Mbit/s  
95th percentile per-packet one-way delay: 13.156 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 25.27 Mbit/s  
95th percentile per-packet one-way delay: 18.612 ms  
Loss rate: 0.51%

Run 6: Report of PCC-Vivace — Data Link

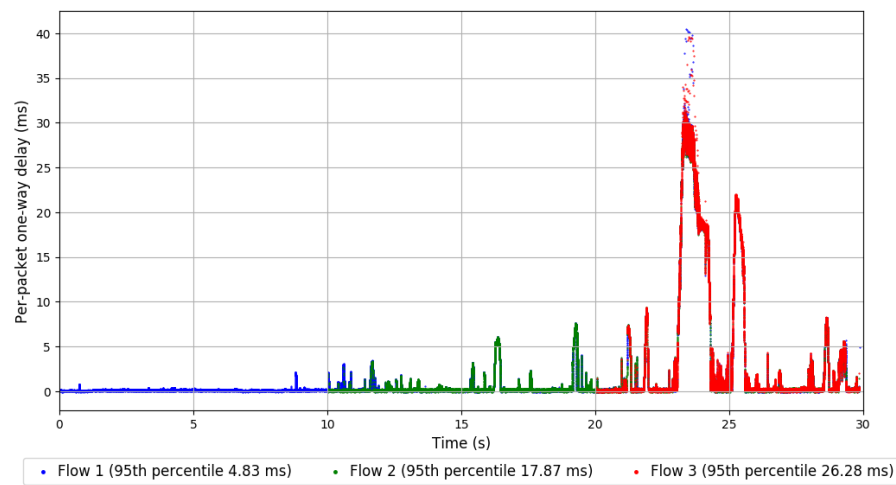
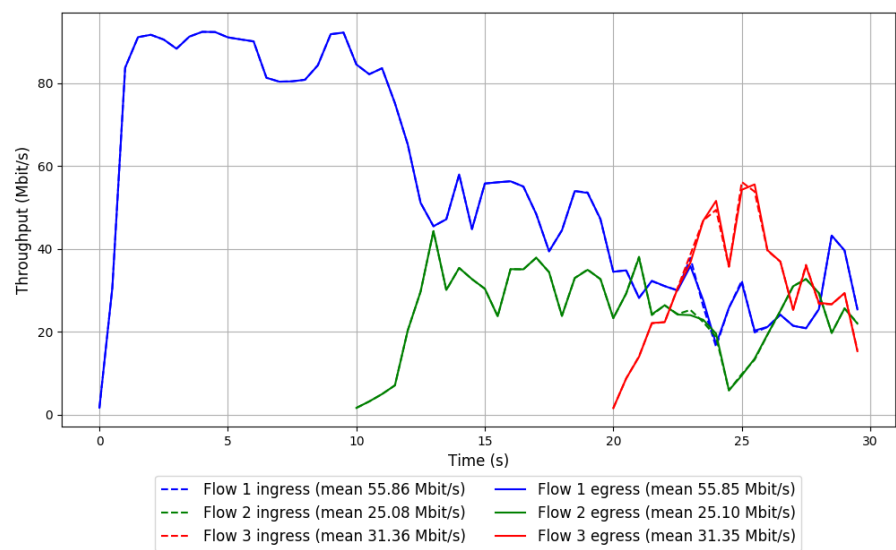


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 15:15:30  
End at: 2018-04-17 15:16:00  
Local clock offset: -6.823 ms  
Remote clock offset: -6.251 ms

# Below is generated by plot.py at 2018-04-17 19:52:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.83 Mbit/s  
95th percentile per-packet one-way delay: 17.151 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 55.85 Mbit/s  
95th percentile per-packet one-way delay: 4.830 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.10 Mbit/s  
95th percentile per-packet one-way delay: 17.873 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 31.35 Mbit/s  
95th percentile per-packet one-way delay: 26.281 ms  
Loss rate: 0.04%

Run 7: Report of PCC-Vivace — Data Link

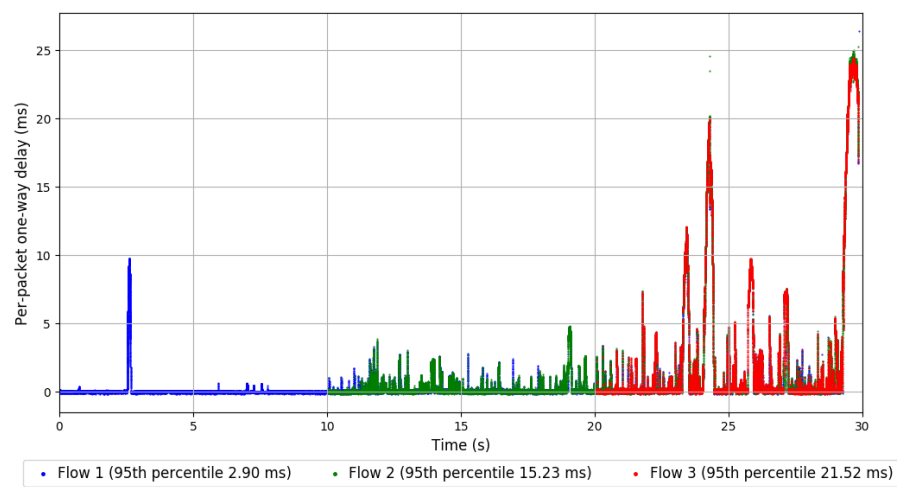
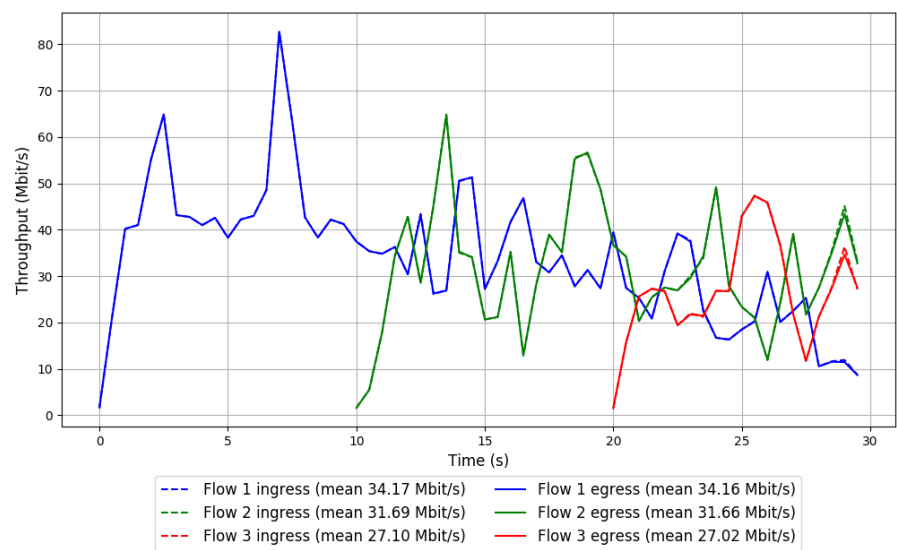


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 15:34:39  
End at: 2018-04-17 15:35:09  
Local clock offset: -6.997 ms  
Remote clock offset: -6.638 ms

```
# Below is generated by plot.py at 2018-04-17 19:52:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.07 Mbit/s
95th percentile per-packet one-way delay: 9.396 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 34.16 Mbit/s
95th percentile per-packet one-way delay: 2.897 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 15.234 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 27.02 Mbit/s
95th percentile per-packet one-way delay: 21.518 ms
Loss rate: 0.29%
```

Run 8: Report of PCC-Vivace — Data Link



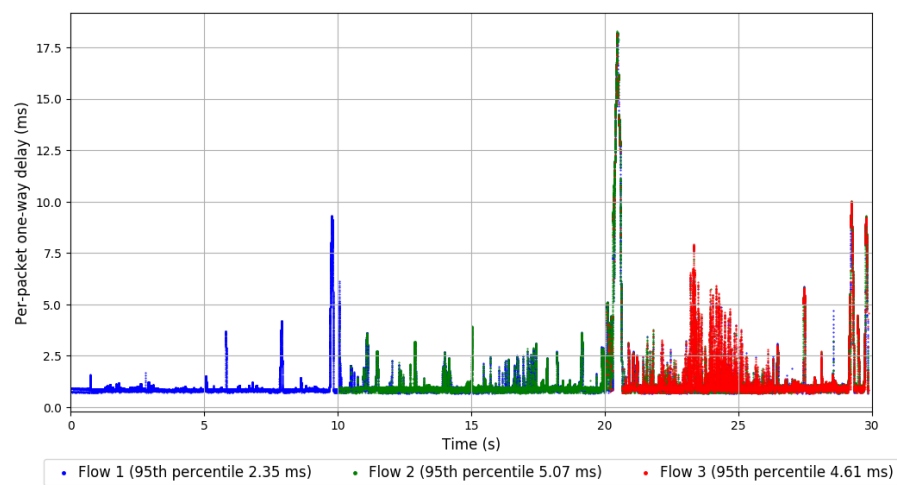
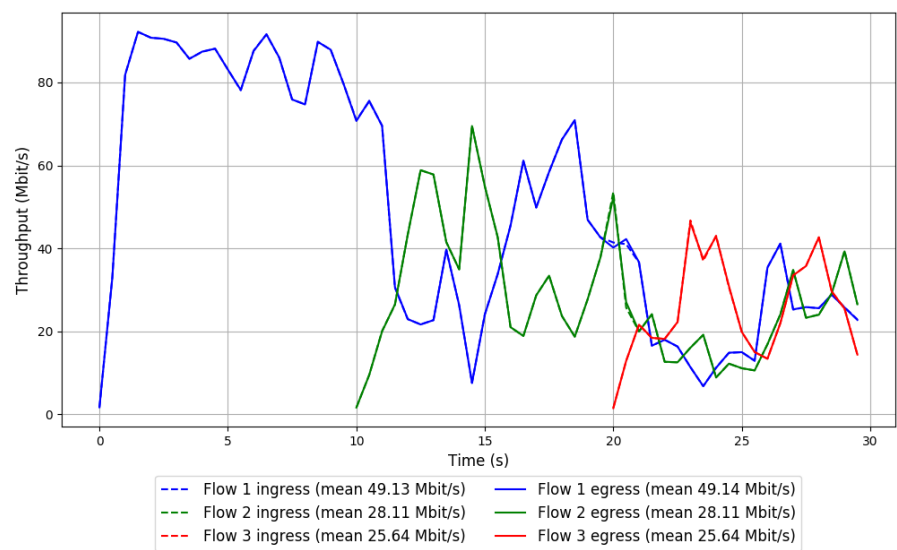


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 15:53:46  
End at: 2018-04-17 15:54:16  
Local clock offset: -6.263 ms  
Remote clock offset: -6.928 ms

# Below is generated by plot.py at 2018-04-17 19:52:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.23 Mbit/s  
95th percentile per-packet one-way delay: 3.246 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 49.14 Mbit/s  
95th percentile per-packet one-way delay: 2.353 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 28.11 Mbit/s  
95th percentile per-packet one-way delay: 5.074 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 25.64 Mbit/s  
95th percentile per-packet one-way delay: 4.614 ms  
Loss rate: 0.01%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 16:12:53

End at: 2018-04-17 16:13:23

Local clock offset: -7.097 ms

Remote clock offset: -7.15 ms

# Below is generated by plot.py at 2018-04-17 19:52:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.84 Mbit/s

95th percentile per-packet one-way delay: 3.573 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 1.674 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 31.99 Mbit/s

95th percentile per-packet one-way delay: 5.604 ms

Loss rate: 0.01%

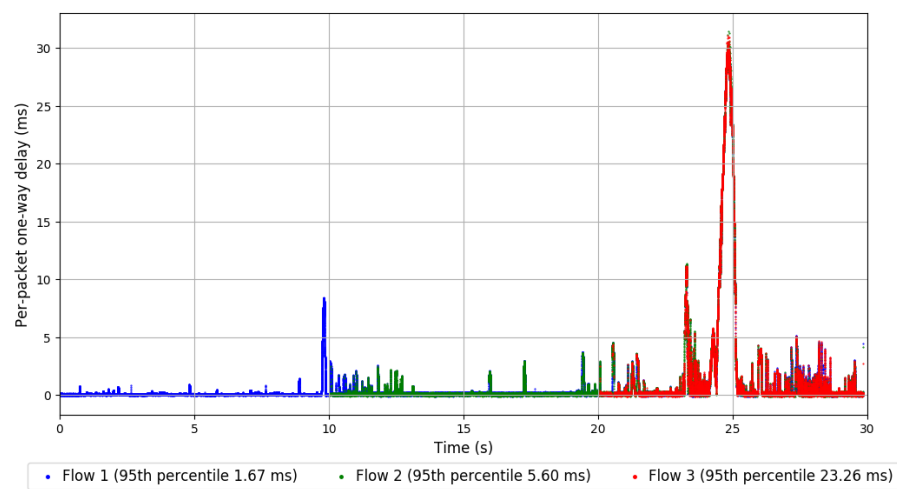
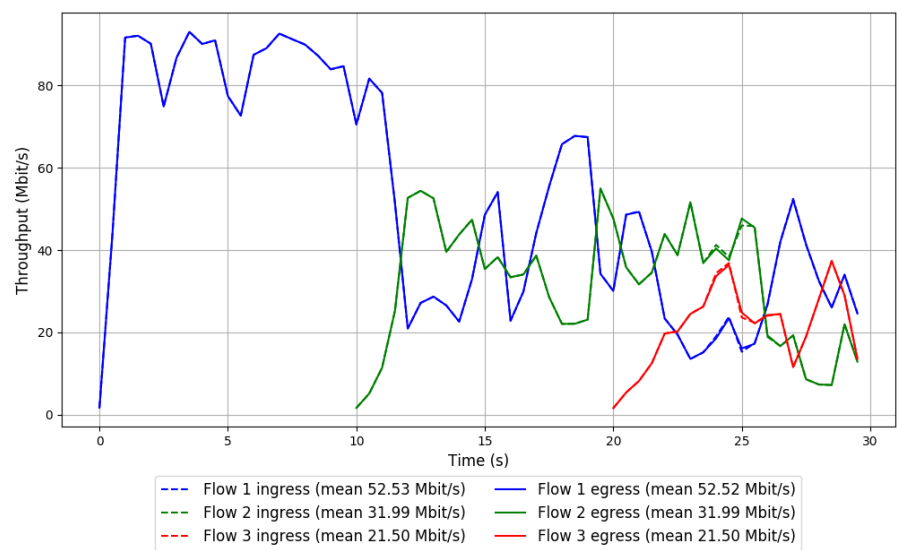
-- Flow 3:

Average throughput: 21.50 Mbit/s

95th percentile per-packet one-way delay: 23.258 ms

Loss rate: 0.03%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 13:16:13  
End at: 2018-04-17 13:16:43  
Local clock offset: -4.949 ms  
Remote clock offset: -6.366 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 13:35:20

End at: 2018-04-17 13:35:50

Local clock offset: -4.744 ms

Remote clock offset: -5.97 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing



Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 13:54:28

End at: 2018-04-17 13:54:58

Local clock offset: -5.413 ms

Remote clock offset: -6.516 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 14:13:36

End at: 2018-04-17 14:14:06

Local clock offset: -5.59 ms

Remote clock offset: -6.72 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 14:32:45

End at: 2018-04-17 14:33:15

Local clock offset: -4.925 ms

Remote clock offset: -6.88 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 14:51:54

End at: 2018-04-17 14:52:24

Local clock offset: -6.669 ms

Remote clock offset: -6.581 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing



Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 15:11:01

End at: 2018-04-17 15:11:31

Local clock offset: -6.025 ms

Remote clock offset: -6.298 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 15:30:09

End at: 2018-04-17 15:30:39

Local clock offset: -6.235 ms

Remote clock offset: -6.541 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 15:49:17

End at: 2018-04-17 15:49:47

Local clock offset: -6.245 ms

Remote clock offset: -6.83 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 16:08:23

End at: 2018-04-17 16:08:53

Local clock offset: -6.384 ms

Remote clock offset: -7.155 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing