

## Pantheon Report

Generated at 2018-04-25 00:12:35 (UTC).

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

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*).

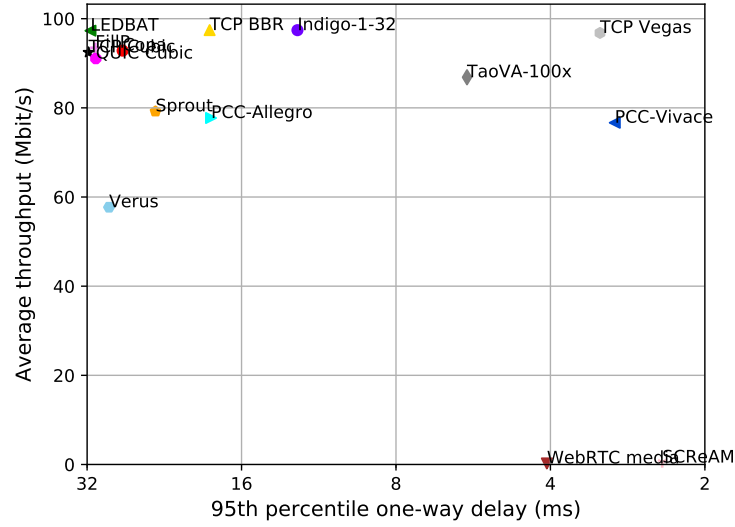
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

Git summary:

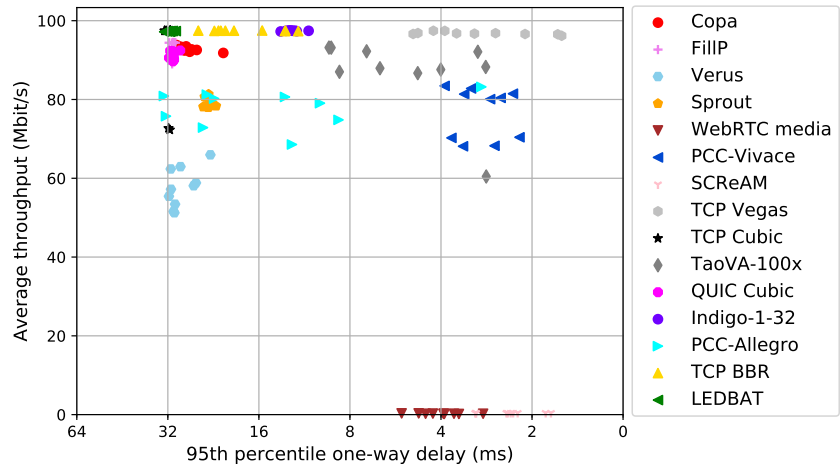
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ 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 AWS Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



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



[illegible]

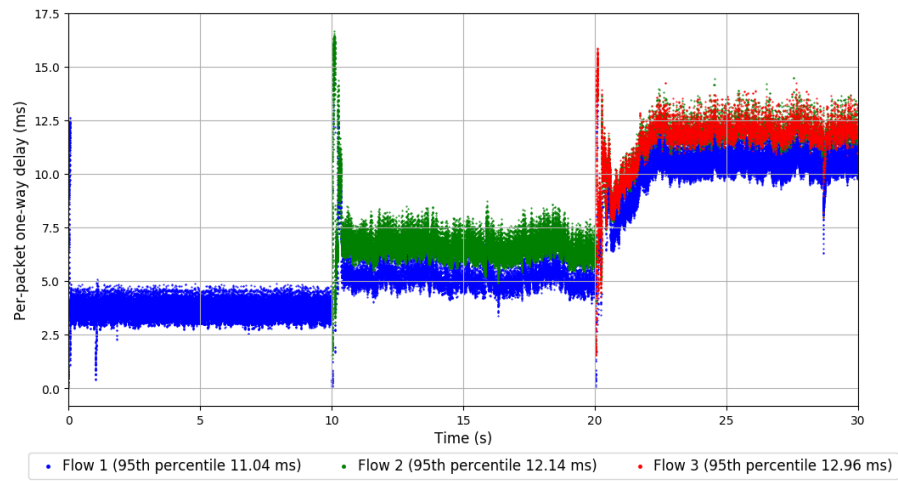
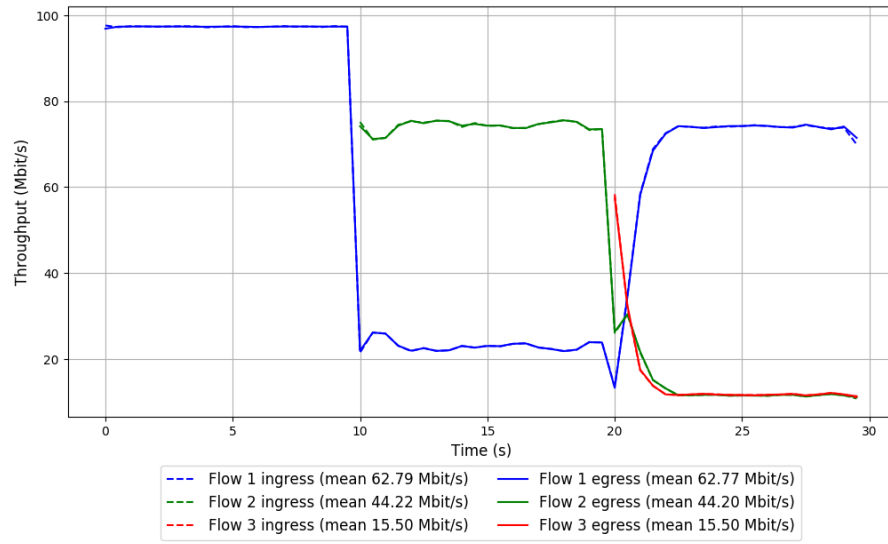


Run 1: Statistics of TCP BBR

Start at: 2018-04-24 20:20:20  
End at: 2018-04-24 20:20:50  
Local clock offset: -4.236 ms  
Remote clock offset: -7.607 ms

# Below is generated by plot.py at 2018-04-24 23:48:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.35 Mbit/s  
95th percentile per-packet one-way delay: 11.861 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.77 Mbit/s  
95th percentile per-packet one-way delay: 11.043 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 44.20 Mbit/s  
95th percentile per-packet one-way delay: 12.142 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.50 Mbit/s  
95th percentile per-packet one-way delay: 12.957 ms  
Loss rate: 0.00%

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

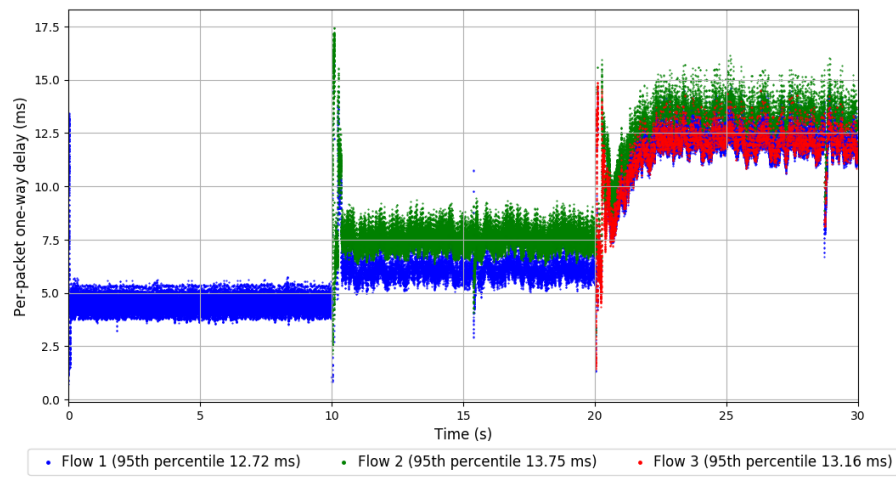
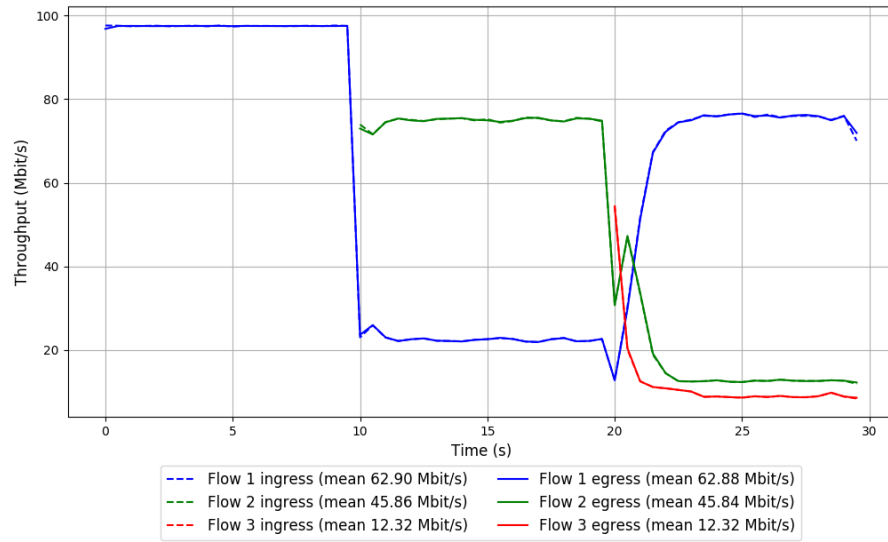


Run 2: Statistics of TCP BBR

Start at: 2018-04-24 20:39:33  
End at: 2018-04-24 20:40:03  
Local clock offset: -4.946 ms  
Remote clock offset: -8.046 ms

# Below is generated by plot.py at 2018-04-24 23:48:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 13.065 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.88 Mbit/s  
95th percentile per-packet one-way delay: 12.725 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 45.84 Mbit/s  
95th percentile per-packet one-way delay: 13.747 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.32 Mbit/s  
95th percentile per-packet one-way delay: 13.156 ms  
Loss rate: 0.00%

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

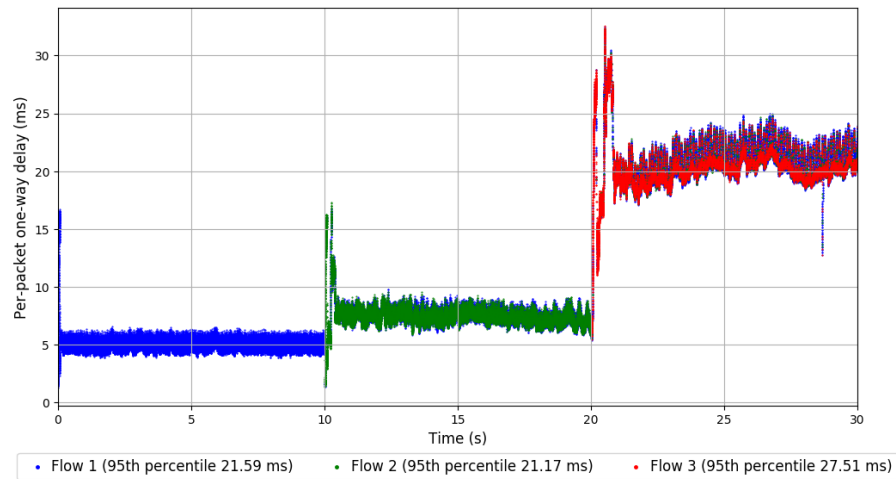
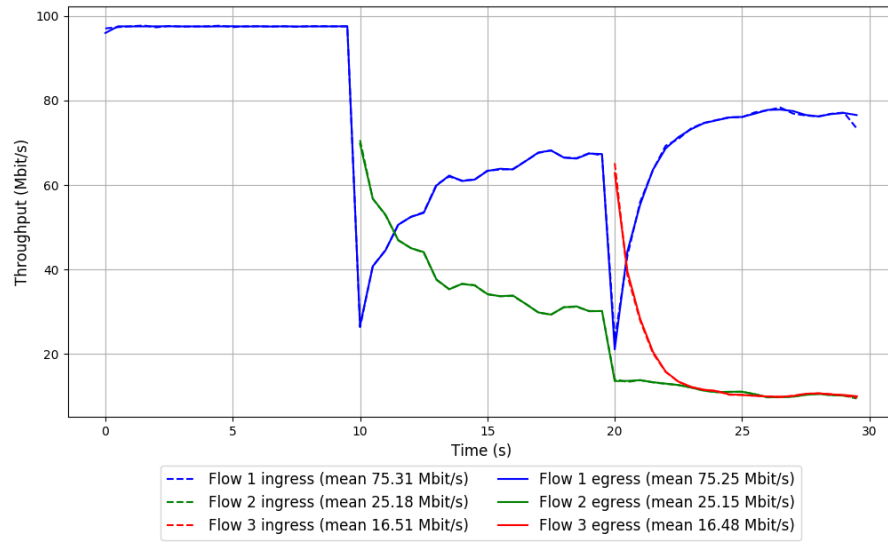


Run 3: Statistics of TCP BBR

Start at: 2018-04-24 20:58:45  
End at: 2018-04-24 20:59:15  
Local clock offset: -4.273 ms  
Remote clock offset: -6.931 ms

# Below is generated by plot.py at 2018-04-24 23:48:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.48 Mbit/s  
95th percentile per-packet one-way delay: 21.765 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 75.25 Mbit/s  
95th percentile per-packet one-way delay: 21.585 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 25.15 Mbit/s  
95th percentile per-packet one-way delay: 21.167 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 16.48 Mbit/s  
95th percentile per-packet one-way delay: 27.512 ms  
Loss rate: 0.01%

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

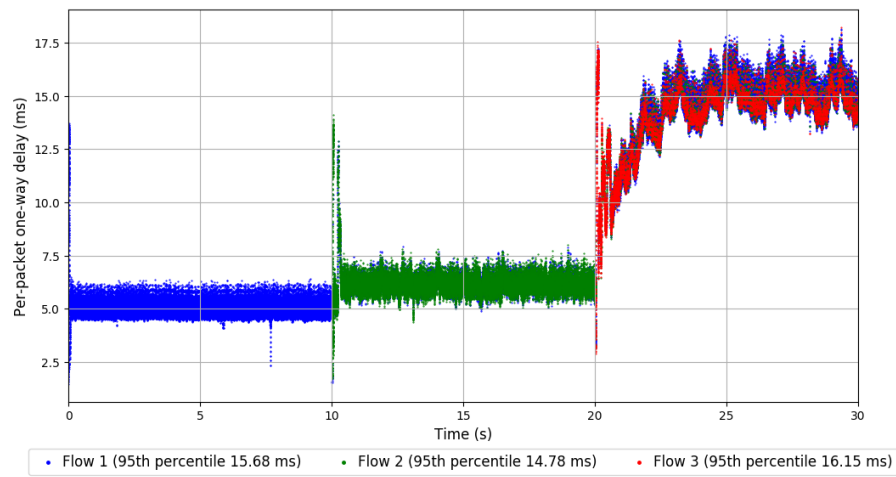
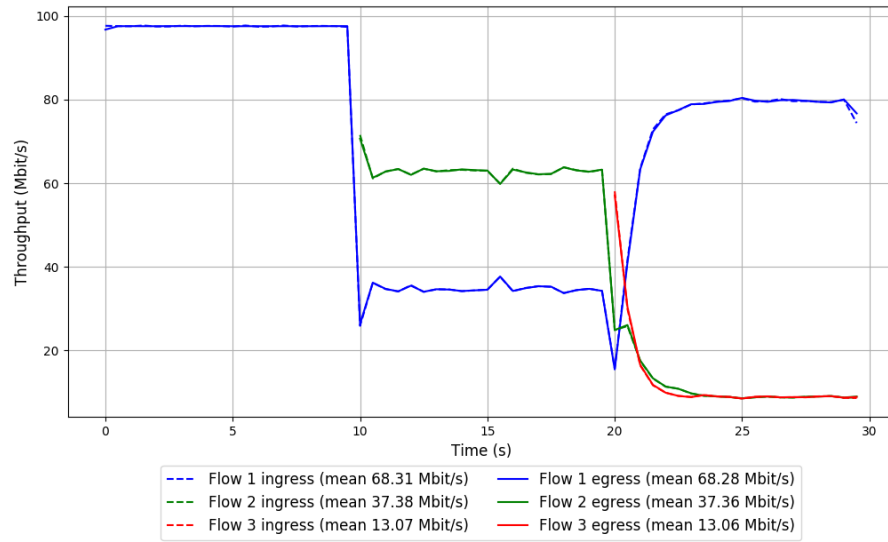


Run 4: Statistics of TCP BBR

Start at: 2018-04-24 21:17:57  
End at: 2018-04-24 21:18:27  
Local clock offset: -5.606 ms  
Remote clock offset: -5.104 ms

# Below is generated by plot.py at 2018-04-24 23:48:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 15.603 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 68.28 Mbit/s  
95th percentile per-packet one-way delay: 15.678 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.36 Mbit/s  
95th percentile per-packet one-way delay: 14.782 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 13.06 Mbit/s  
95th percentile per-packet one-way delay: 16.153 ms  
Loss rate: 0.00%

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



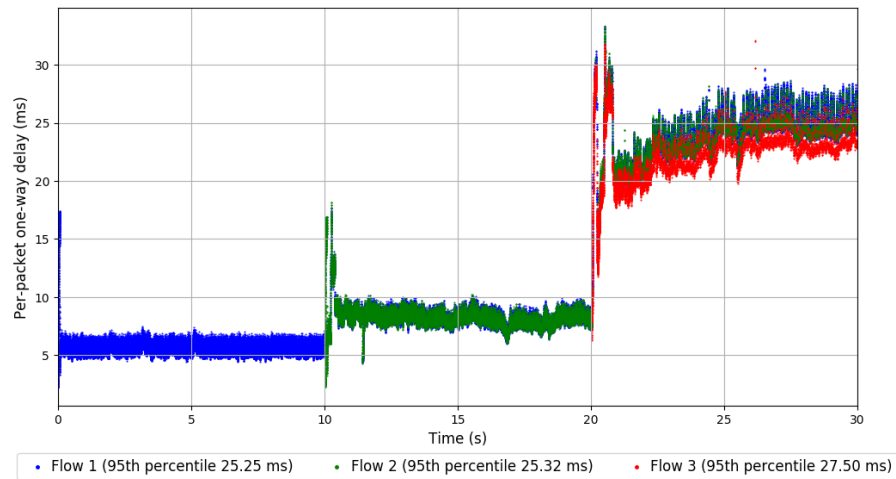
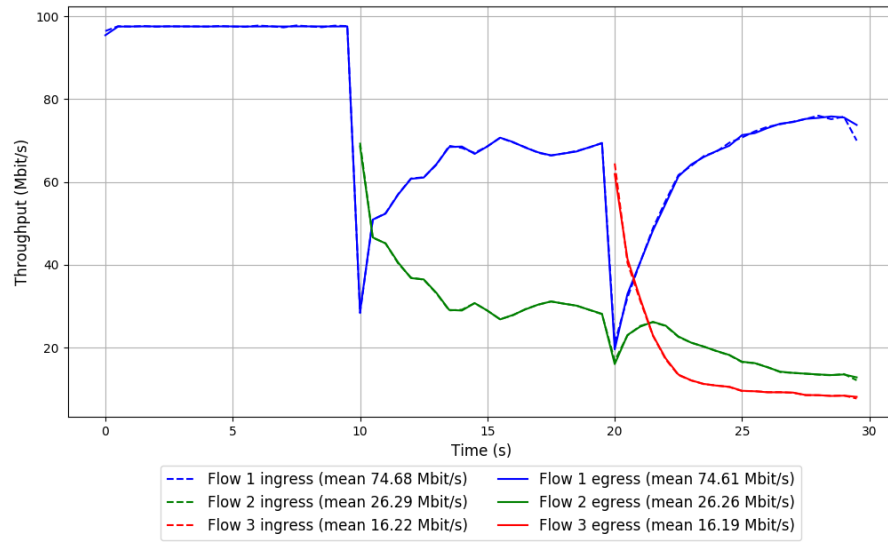


Run 5: Statistics of TCP BBR

Start at: 2018-04-24 21:37:09  
End at: 2018-04-24 21:37:39  
Local clock offset: -4.834 ms  
Remote clock offset: -4.766 ms

# Below is generated by plot.py at 2018-04-24 23:48:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 25.378 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 74.61 Mbit/s  
95th percentile per-packet one-way delay: 25.252 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 26.26 Mbit/s  
95th percentile per-packet one-way delay: 25.325 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 16.19 Mbit/s  
95th percentile per-packet one-way delay: 27.502 ms  
Loss rate: 0.04%

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



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 21:56:18

End at: 2018-04-24 21:56:48

Local clock offset: -5.926 ms

Remote clock offset: -4.48 ms

# Below is generated by plot.py at 2018-04-24 23:48:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.35 Mbit/s

95th percentile per-packet one-way delay: 13.129 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.61 Mbit/s

95th percentile per-packet one-way delay: 12.603 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.60 Mbit/s

95th percentile per-packet one-way delay: 13.801 ms

Loss rate: 0.00%

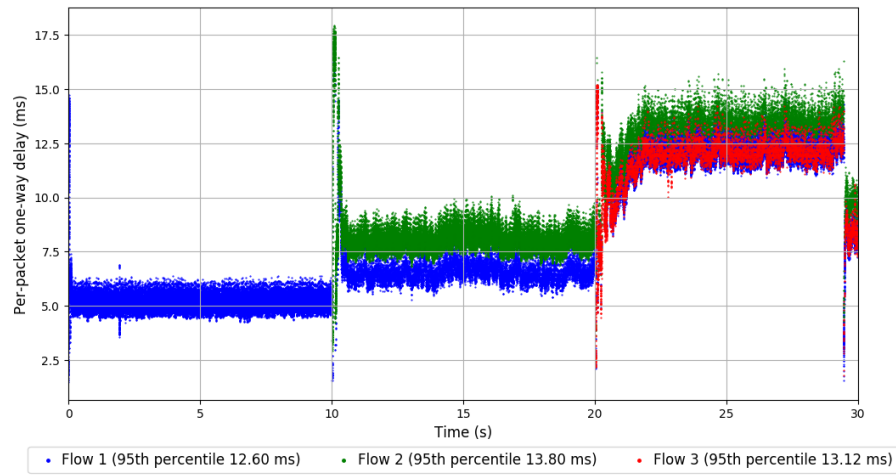
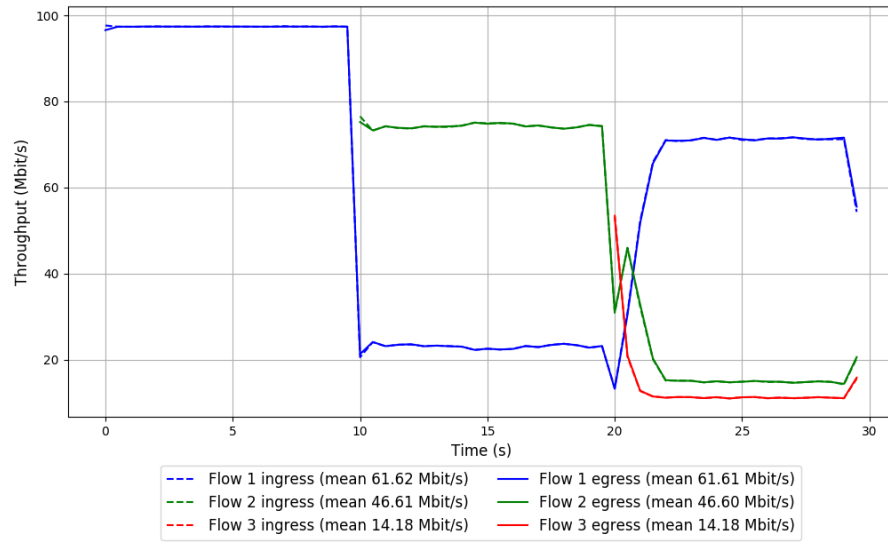
-- Flow 3:

Average throughput: 14.18 Mbit/s

95th percentile per-packet one-way delay: 13.117 ms

Loss rate: 0.00%

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

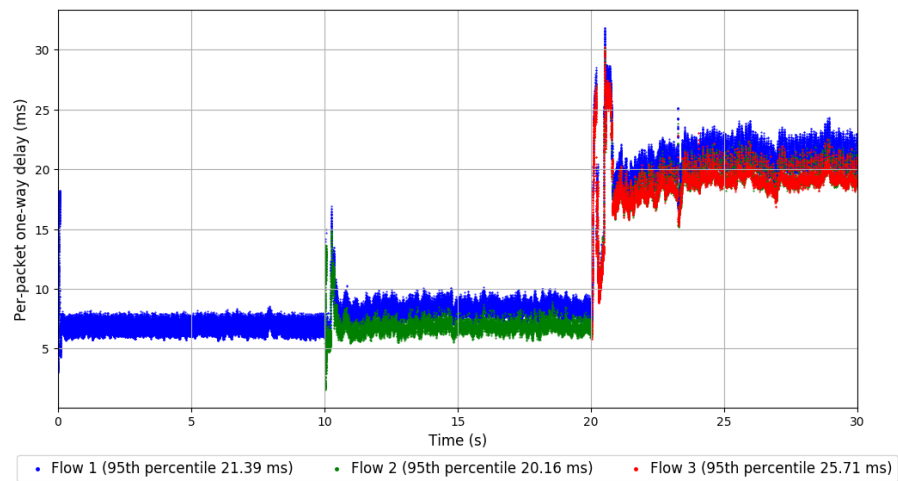
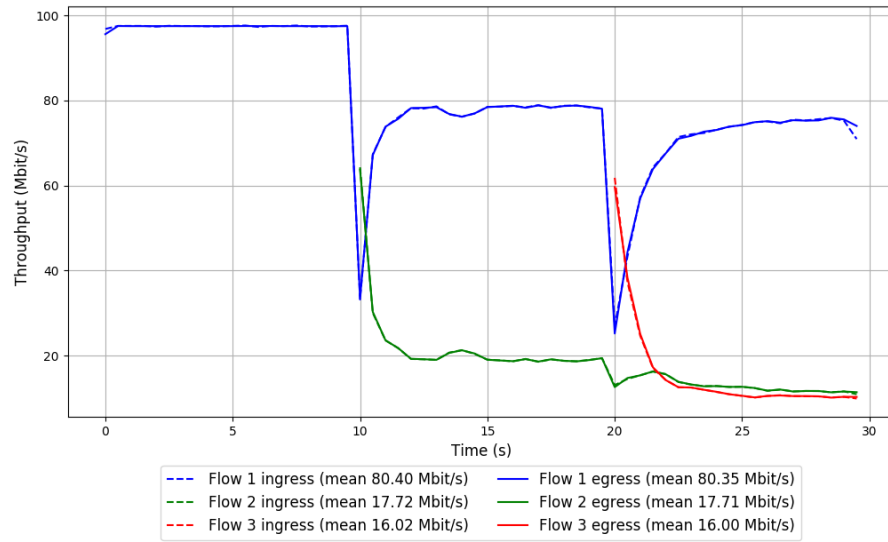


Run 7: Statistics of TCP BBR

Start at: 2018-04-24 22:15:29  
End at: 2018-04-24 22:15:59  
Local clock offset: -6.059 ms  
Remote clock offset: -4.138 ms

# Below is generated by plot.py at 2018-04-24 23:48:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 21.392 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 80.35 Mbit/s  
95th percentile per-packet one-way delay: 21.390 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 17.71 Mbit/s  
95th percentile per-packet one-way delay: 20.159 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 16.00 Mbit/s  
95th percentile per-packet one-way delay: 25.712 ms  
Loss rate: 0.00%

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

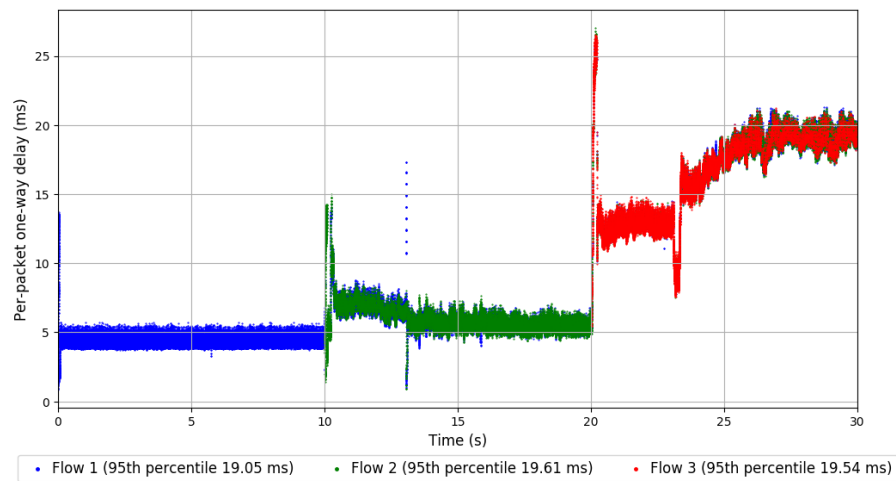
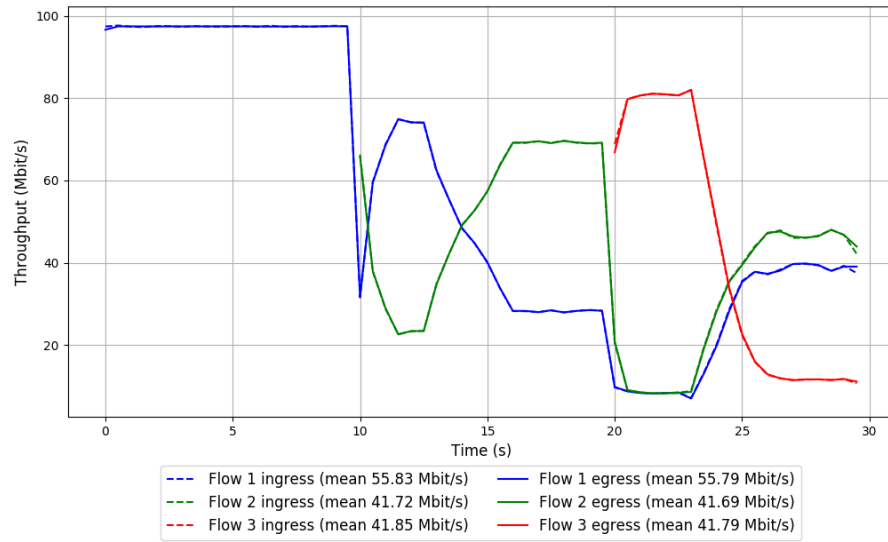


Run 8: Statistics of TCP BBR

Start at: 2018-04-24 22:34:41  
End at: 2018-04-24 22:35:11  
Local clock offset: -5.381 ms  
Remote clock offset: -3.741 ms

# Below is generated by plot.py at 2018-04-24 23:48:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 19.342 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 55.79 Mbit/s  
95th percentile per-packet one-way delay: 19.053 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.69 Mbit/s  
95th percentile per-packet one-way delay: 19.612 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.79 Mbit/s  
95th percentile per-packet one-way delay: 19.543 ms  
Loss rate: 0.00%

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



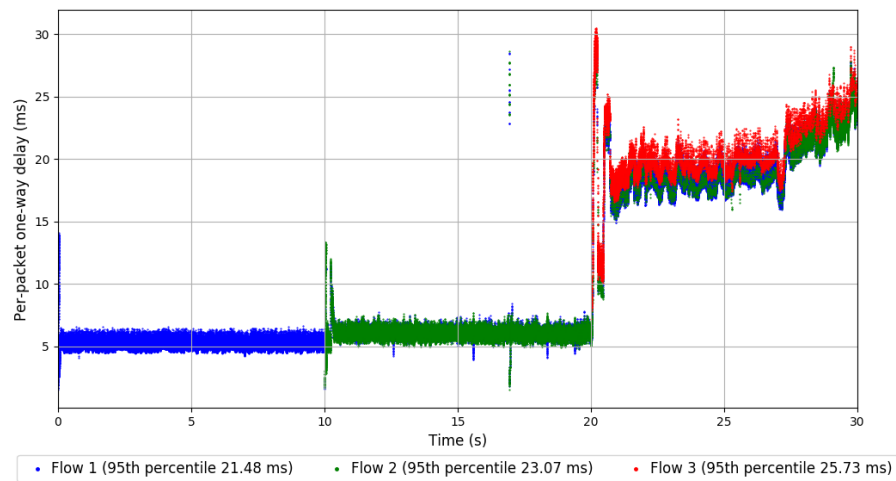
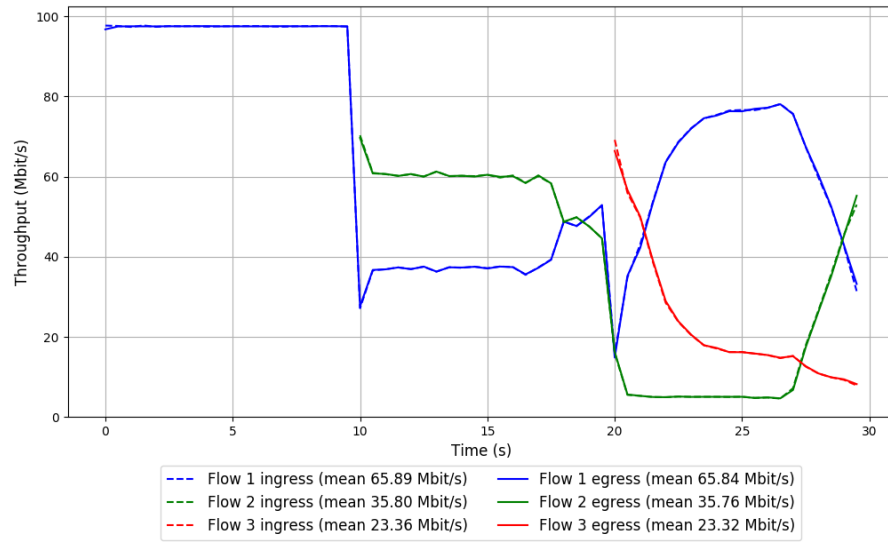


Run 9: Statistics of TCP BBR

Start at: 2018-04-24 22:53:53  
End at: 2018-04-24 22:54:23  
Local clock offset: -5.768 ms  
Remote clock offset: -6.155 ms

# Below is generated by plot.py at 2018-04-24 23:50:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 22.453 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 65.84 Mbit/s  
95th percentile per-packet one-way delay: 21.478 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 35.76 Mbit/s  
95th percentile per-packet one-way delay: 23.071 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.32 Mbit/s  
95th percentile per-packet one-way delay: 25.729 ms  
Loss rate: 0.01%

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

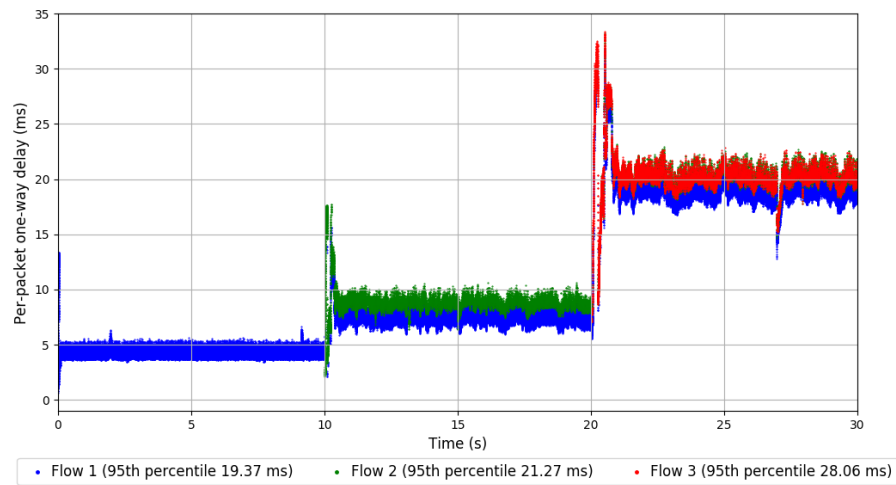
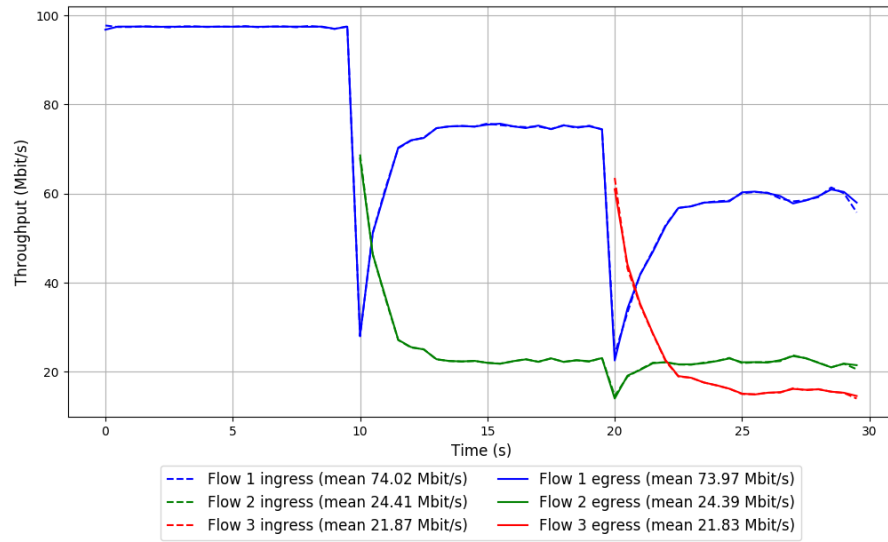


Run 10: Statistics of TCP BBR

Start at: 2018-04-24 23:13:04  
End at: 2018-04-24 23:13:34  
Local clock offset: -4.779 ms  
Remote clock offset: -6.734 ms

# Below is generated by plot.py at 2018-04-24 23:50:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 20.655 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 73.97 Mbit/s  
95th percentile per-packet one-way delay: 19.370 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.39 Mbit/s  
95th percentile per-packet one-way delay: 21.267 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 21.83 Mbit/s  
95th percentile per-packet one-way delay: 28.064 ms  
Loss rate: 0.03%

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

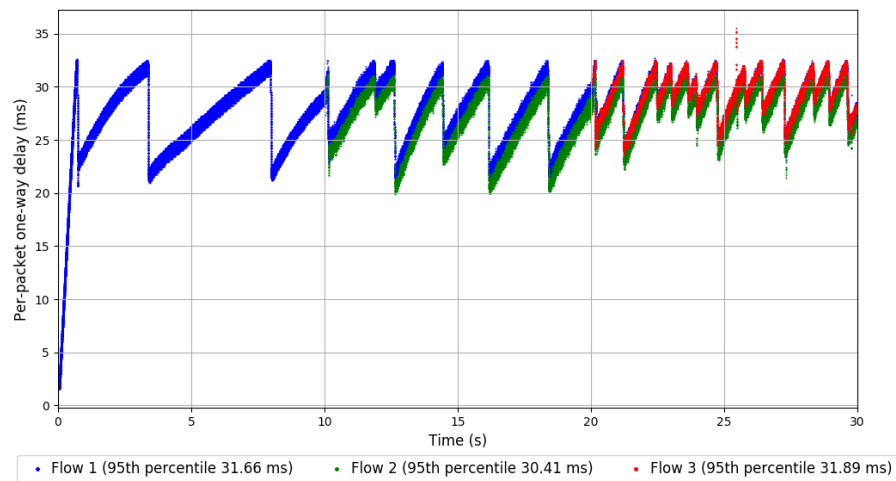
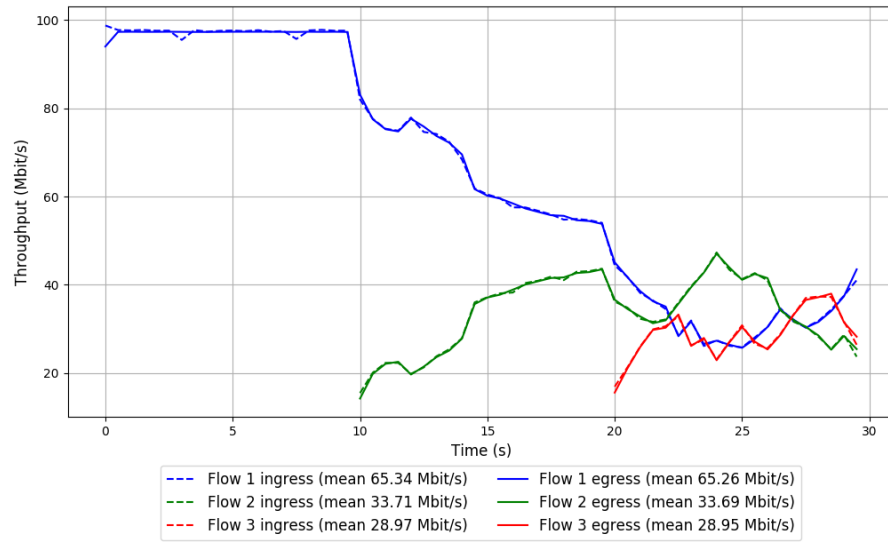


Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 20:23:44  
End at: 2018-04-24 20:24:14  
Local clock offset: -4.259 ms  
Remote clock offset: -7.695 ms

# Below is generated by plot.py at 2018-04-24 23:50:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.28 Mbit/s  
95th percentile per-packet one-way delay: 31.482 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 65.26 Mbit/s  
95th percentile per-packet one-way delay: 31.656 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 33.69 Mbit/s  
95th percentile per-packet one-way delay: 30.408 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 28.95 Mbit/s  
95th percentile per-packet one-way delay: 31.893 ms  
Loss rate: 0.06%

# Run 1: Report of TCP Cubic — Data Link

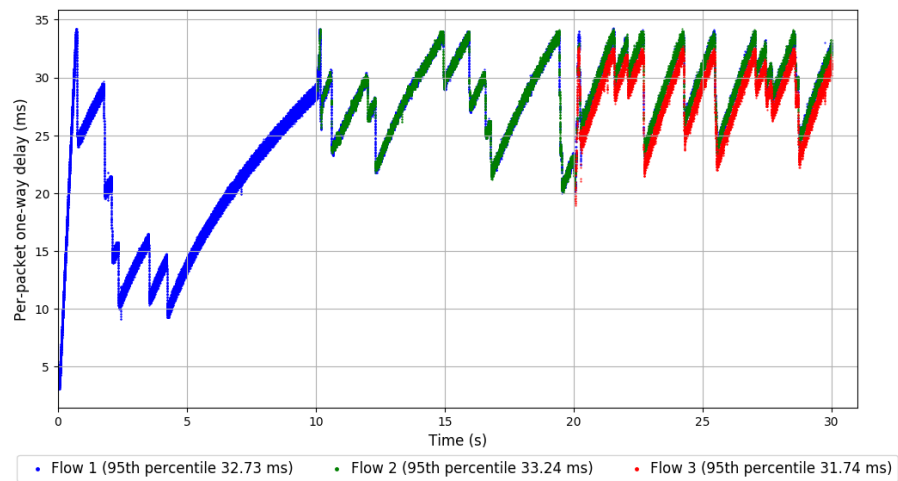
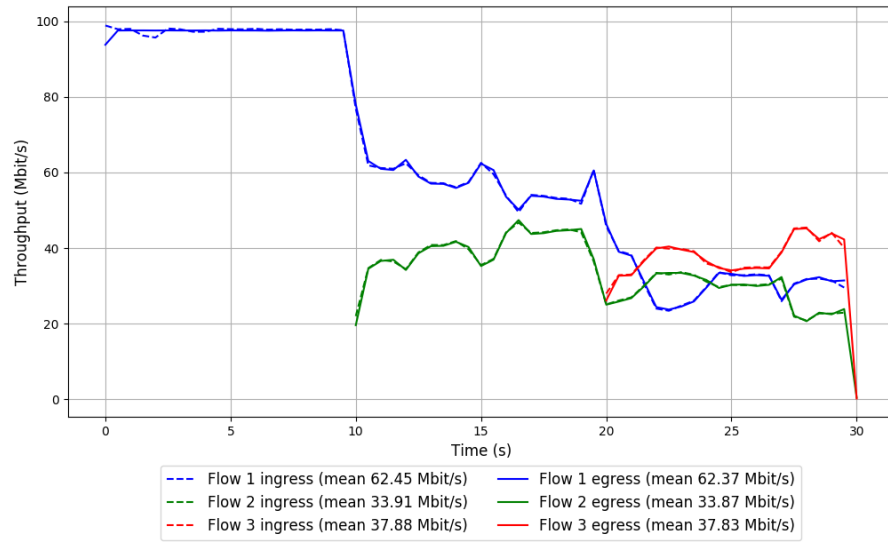


Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 20:42:57  
End at: 2018-04-24 20:43:27  
Local clock offset: -5.706 ms  
Remote clock offset: -8.115 ms

# Below is generated by plot.py at 2018-04-24 23:50:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 32.766 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 62.37 Mbit/s  
95th percentile per-packet one-way delay: 32.726 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 33.87 Mbit/s  
95th percentile per-packet one-way delay: 33.237 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 37.83 Mbit/s  
95th percentile per-packet one-way delay: 31.743 ms  
Loss rate: 0.03%

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



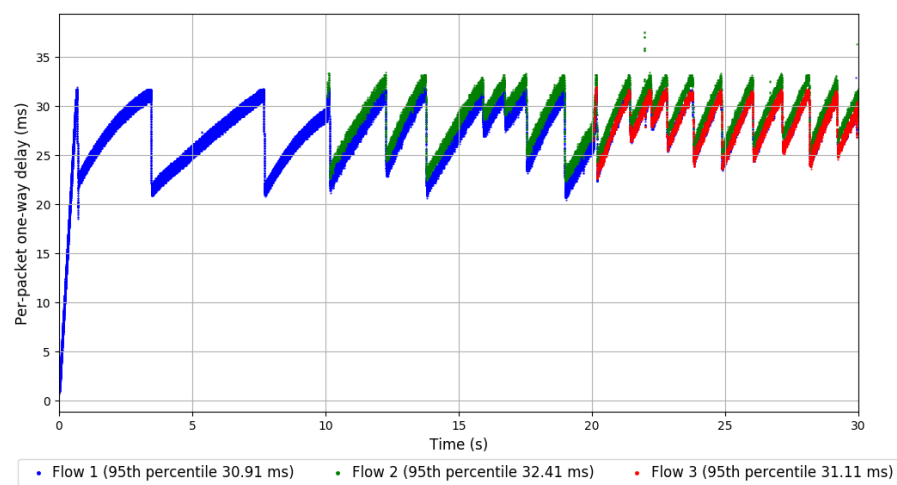
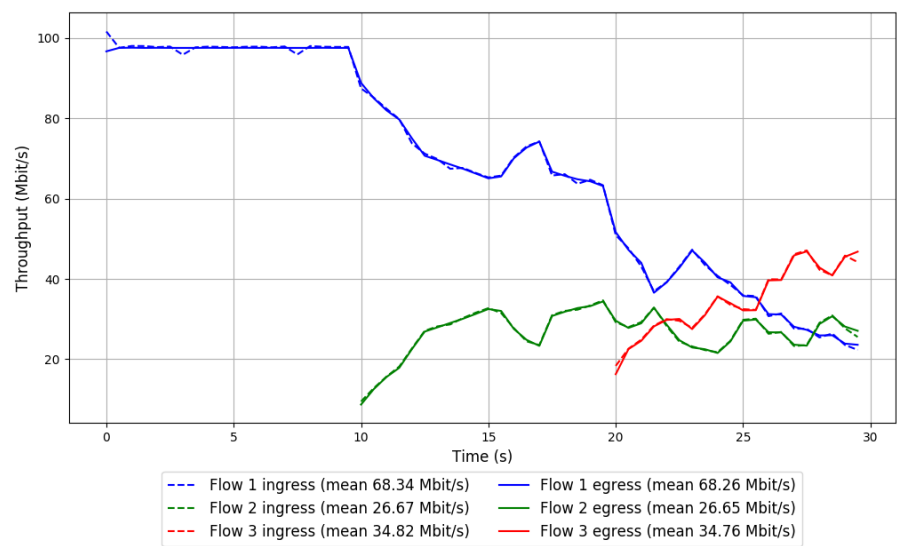


Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 21:02:10  
End at: 2018-04-24 21:02:40  
Local clock offset: -5.037 ms  
Remote clock offset: -6.305 ms

# Below is generated by plot.py at 2018-04-24 23:50:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 31.383 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 68.26 Mbit/s  
95th percentile per-packet one-way delay: 30.909 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 26.65 Mbit/s  
95th percentile per-packet one-way delay: 32.414 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 34.76 Mbit/s  
95th percentile per-packet one-way delay: 31.109 ms  
Loss rate: 0.15%

Run 3: Report of TCP Cubic — Data Link

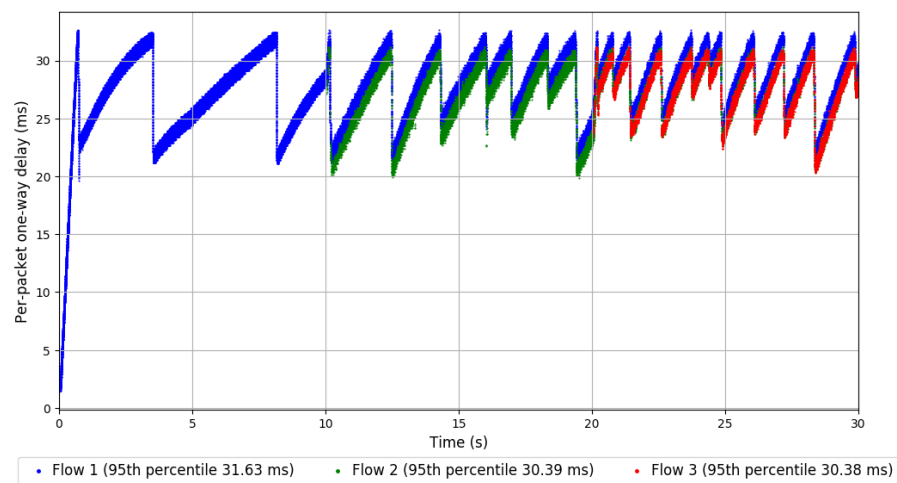
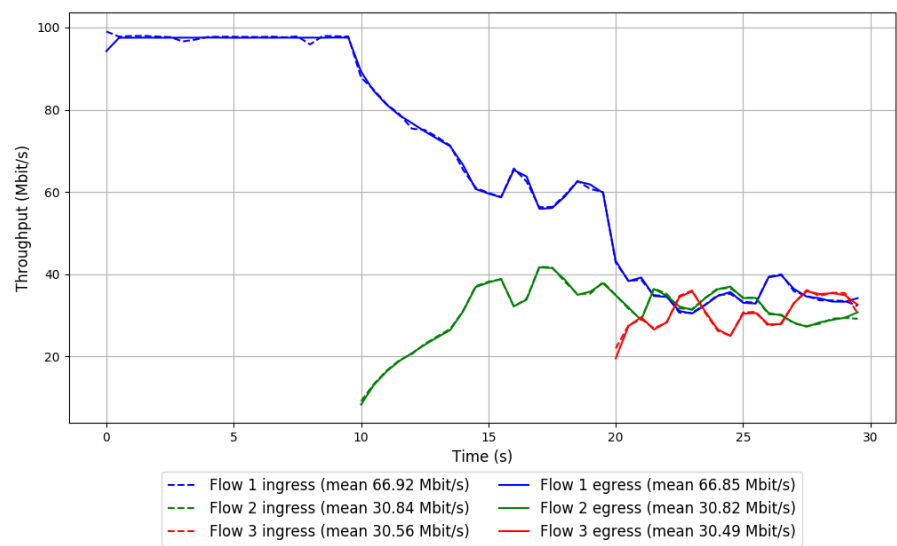


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 21:21:22  
End at: 2018-04-24 21:21:52  
Local clock offset: -4.087 ms  
Remote clock offset: -5.029 ms

# Below is generated by plot.py at 2018-04-24 23:50:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 31.409 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 66.85 Mbit/s  
95th percentile per-packet one-way delay: 31.630 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 30.82 Mbit/s  
95th percentile per-packet one-way delay: 30.389 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 30.49 Mbit/s  
95th percentile per-packet one-way delay: 30.378 ms  
Loss rate: 0.18%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 21:40:33

End at: 2018-04-24 21:41:03

Local clock offset: -5.658 ms

Remote clock offset: -4.77 ms

# Below is generated by plot.py at 2018-04-24 23:50:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.71 Mbit/s

95th percentile per-packet one-way delay: 31.837 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 9.82 Mbit/s

95th percentile per-packet one-way delay: 31.399 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 31.375 ms

Loss rate: 0.02%

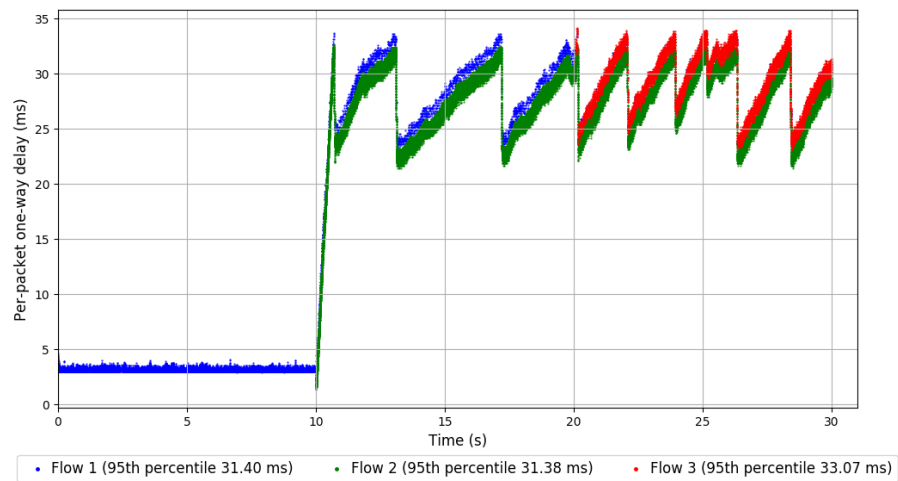
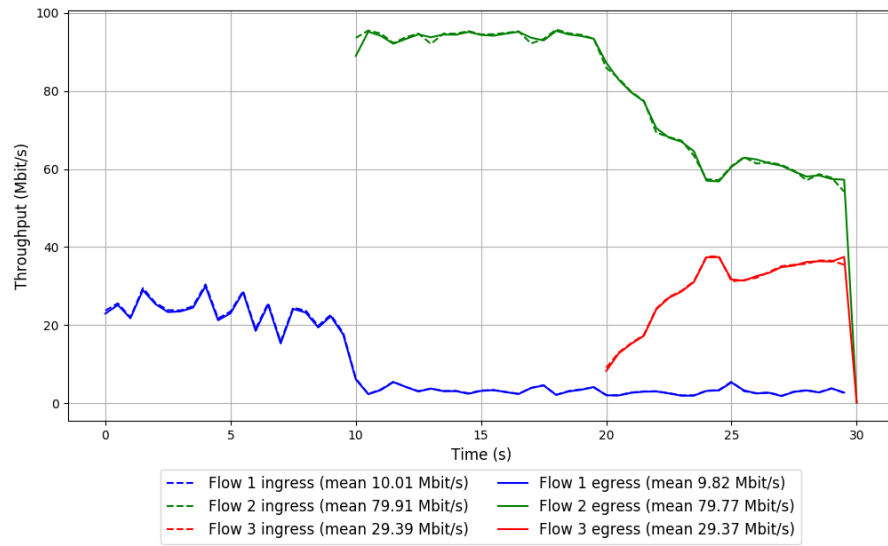
-- Flow 3:

Average throughput: 29.37 Mbit/s

95th percentile per-packet one-way delay: 33.072 ms

Loss rate: 0.06%

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

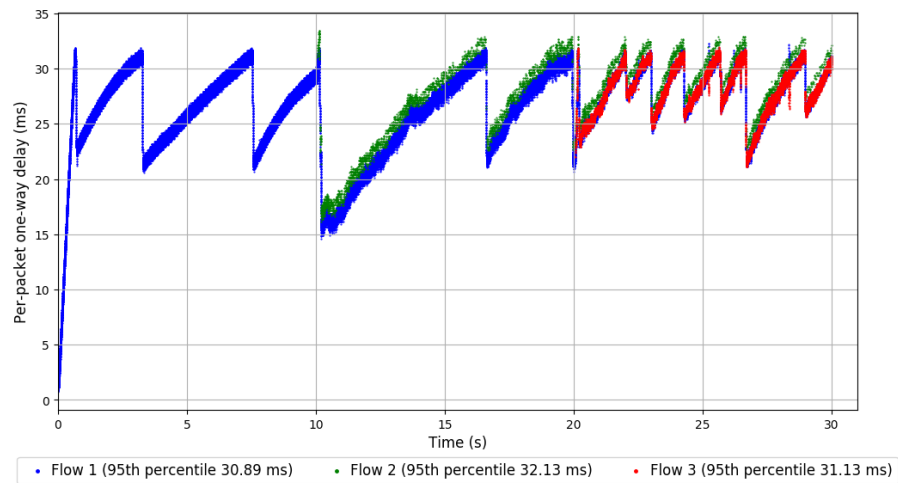
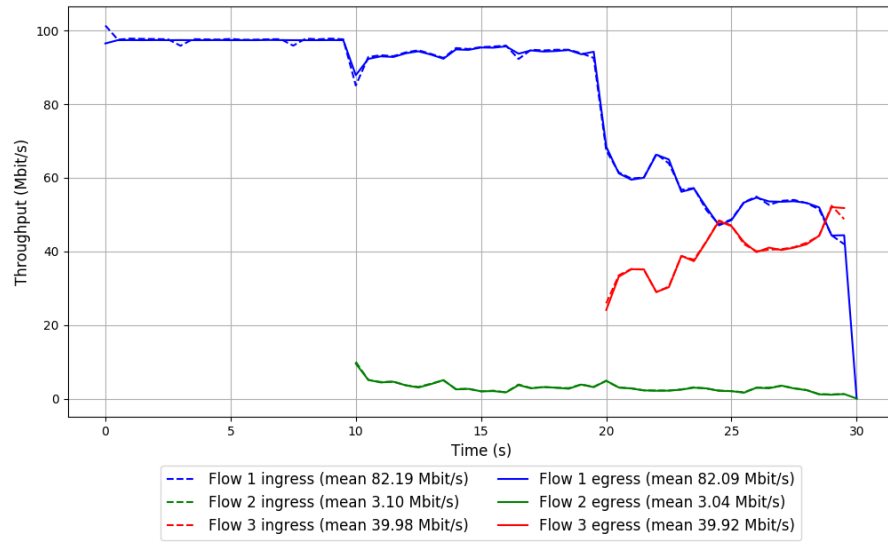


Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 21:59:42  
End at: 2018-04-24 22:00:12  
Local clock offset: -5.171 ms  
Remote clock offset: -4.425 ms

# Below is generated by plot.py at 2018-04-24 23:50:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.37 Mbit/s  
95th percentile per-packet one-way delay: 30.916 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 82.09 Mbit/s  
95th percentile per-packet one-way delay: 30.894 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 3.04 Mbit/s  
95th percentile per-packet one-way delay: 32.127 ms  
Loss rate: 1.94%  
-- Flow 3:  
Average throughput: 39.92 Mbit/s  
95th percentile per-packet one-way delay: 31.129 ms  
Loss rate: 0.05%

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



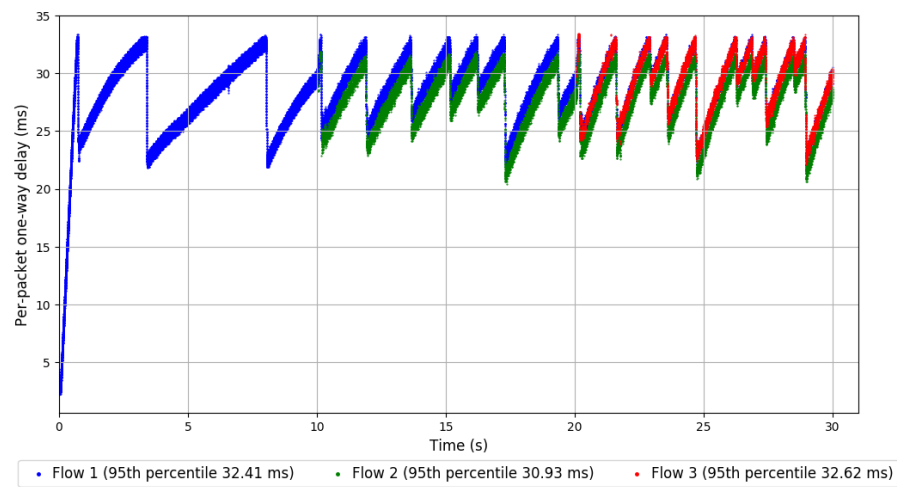
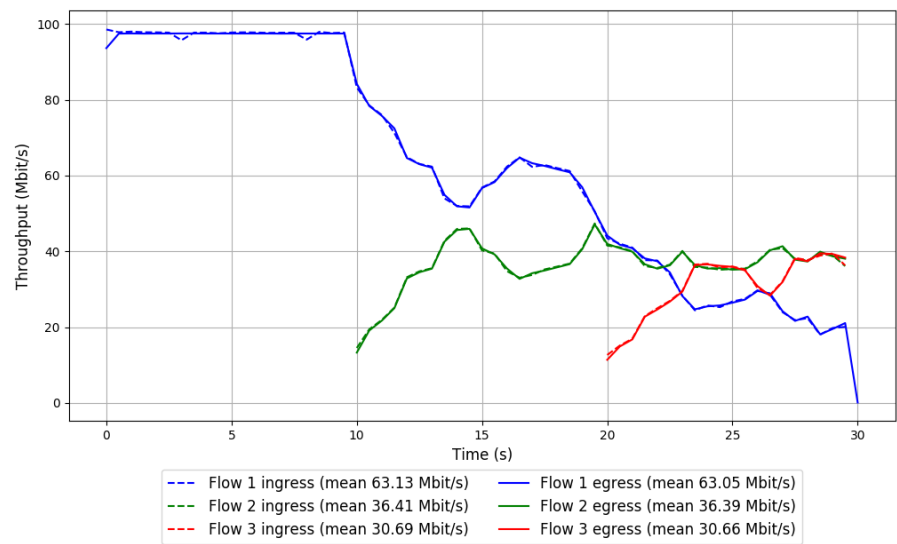


Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 22:18:54  
End at: 2018-04-24 22:19:24  
Local clock offset: -5.243 ms  
Remote clock offset: -4.076 ms

# Below is generated by plot.py at 2018-04-24 23:51:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 32.371 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 63.05 Mbit/s  
95th percentile per-packet one-way delay: 32.411 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 36.39 Mbit/s  
95th percentile per-packet one-way delay: 30.925 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 30.66 Mbit/s  
95th percentile per-packet one-way delay: 32.624 ms  
Loss rate: 0.11%

Run 7: Report of TCP Cubic — Data Link

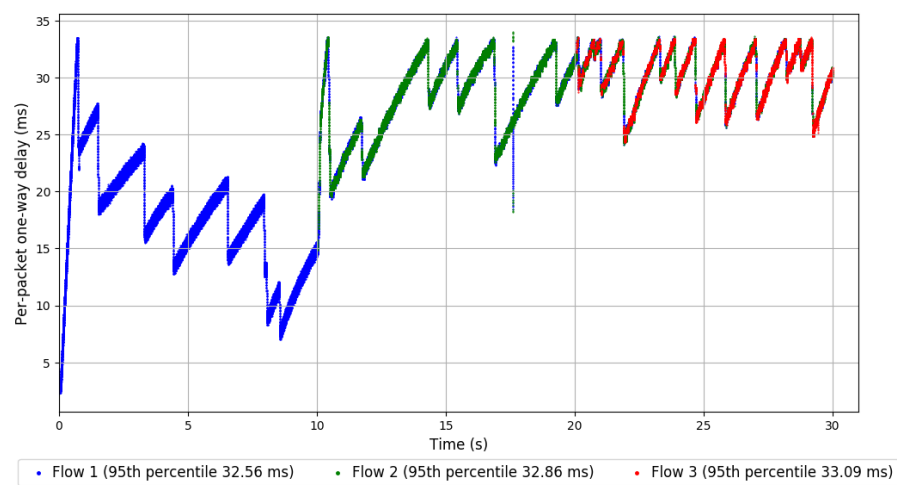
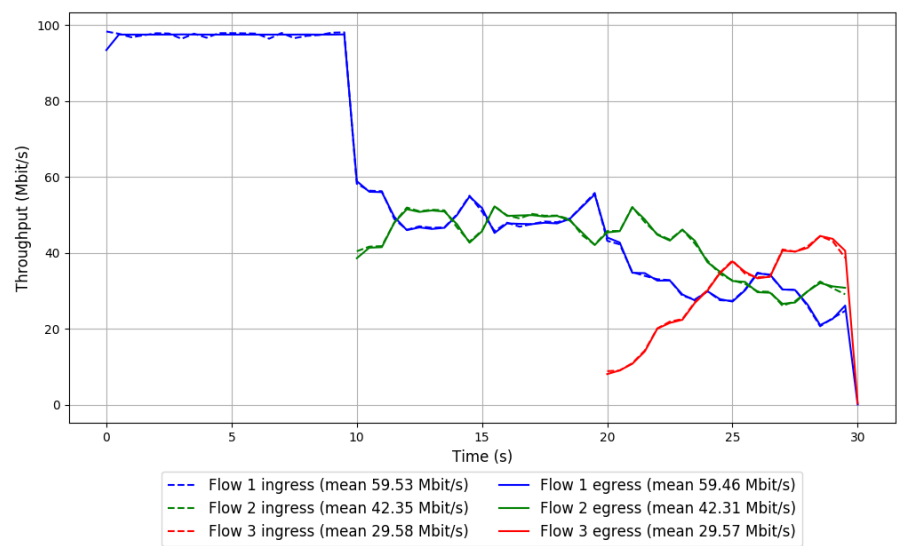


Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 22:38:05  
End at: 2018-04-24 22:38:35  
Local clock offset: -5.379 ms  
Remote clock offset: -4.458 ms

# Below is generated by plot.py at 2018-04-24 23:51:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 32.815 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 59.46 Mbit/s  
95th percentile per-packet one-way delay: 32.559 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 42.31 Mbit/s  
95th percentile per-packet one-way delay: 32.858 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 29.57 Mbit/s  
95th percentile per-packet one-way delay: 33.095 ms  
Loss rate: 0.03%

Run 8: Report of TCP Cubic — Data Link

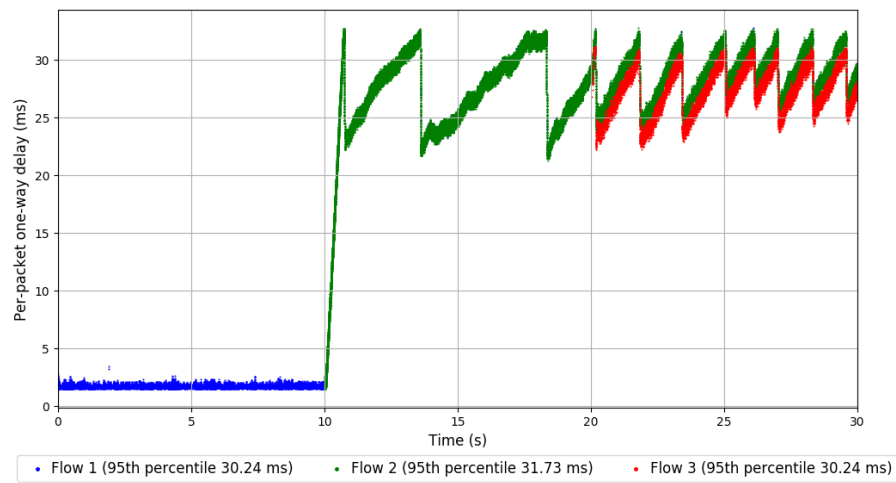
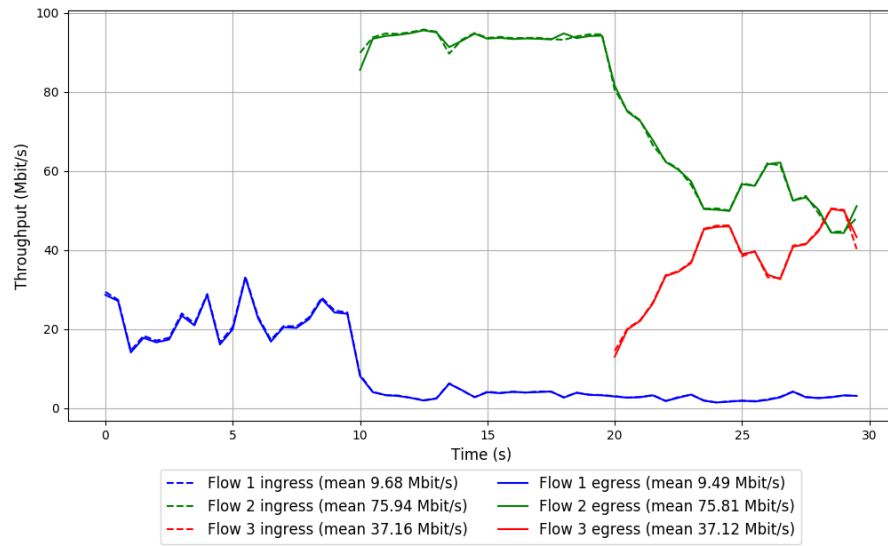


Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 22:57:17  
End at: 2018-04-24 22:57:47  
Local clock offset: -4.207 ms  
Remote clock offset: -6.322 ms

# Below is generated by plot.py at 2018-04-24 23:51:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.31 Mbit/s  
95th percentile per-packet one-way delay: 31.523 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 9.49 Mbit/s  
95th percentile per-packet one-way delay: 30.239 ms  
Loss rate: 1.88%  
-- Flow 2:  
Average throughput: 75.81 Mbit/s  
95th percentile per-packet one-way delay: 31.732 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 37.12 Mbit/s  
95th percentile per-packet one-way delay: 30.241 ms  
Loss rate: 0.09%

# Run 9: Report of TCP Cubic — Data Link

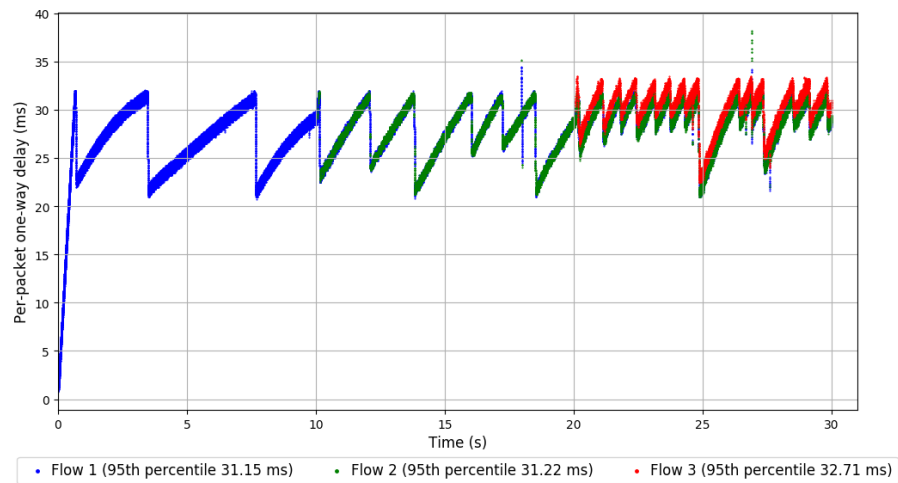
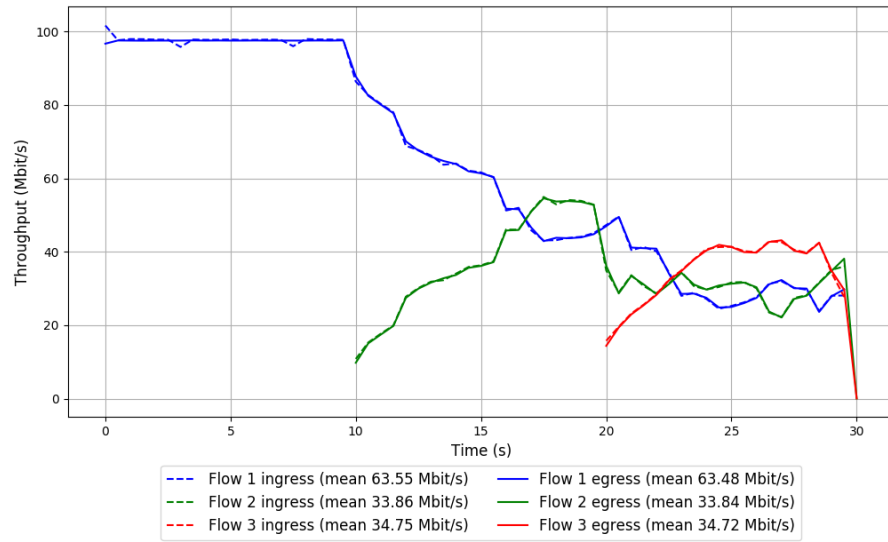


Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 23:16:28  
End at: 2018-04-24 23:16:58  
Local clock offset: -4.807 ms  
Remote clock offset: -6.668 ms

# Below is generated by plot.py at 2018-04-24 23:51:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 31.471 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 63.48 Mbit/s  
95th percentile per-packet one-way delay: 31.149 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 33.84 Mbit/s  
95th percentile per-packet one-way delay: 31.216 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 34.72 Mbit/s  
95th percentile per-packet one-way delay: 32.709 ms  
Loss rate: 0.07%

# Run 10: Report of TCP Cubic — Data Link



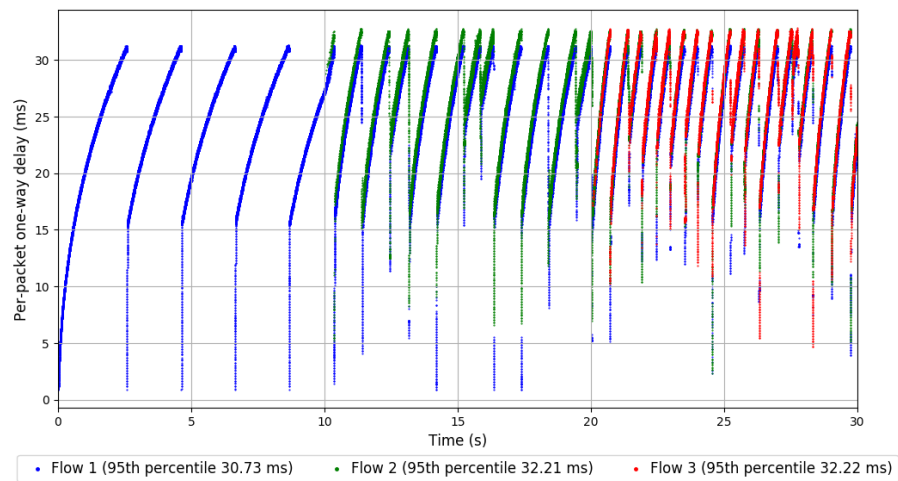
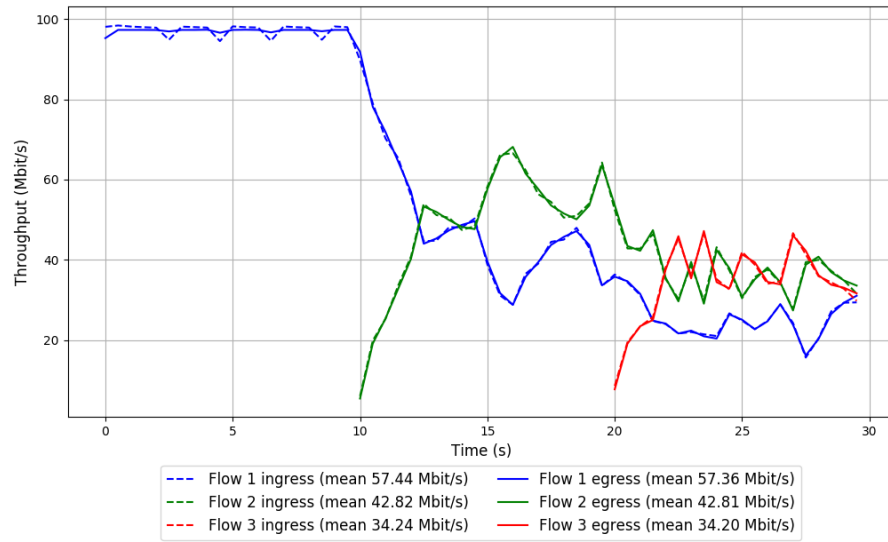


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 20:22:35
End at: 2018-04-24 20:23:05
Local clock offset: -5.067 ms
Remote clock offset: -7.661 ms

# Below is generated by plot.py at 2018-04-24 23:51:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 31.514 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 57.36 Mbit/s
95th percentile per-packet one-way delay: 30.732 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 42.81 Mbit/s
95th percentile per-packet one-way delay: 32.211 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 32.217 ms
Loss rate: 0.06%
```

# Run 1: Report of LEDBAT — Data Link

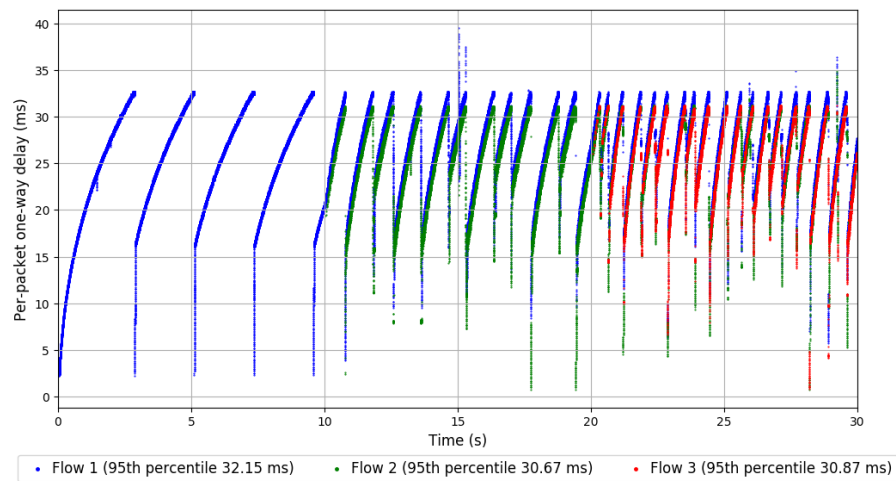
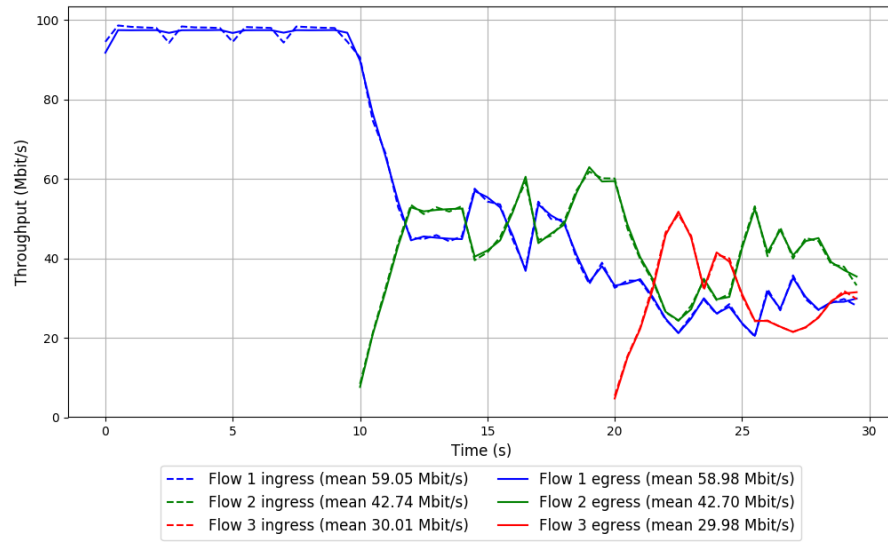


Run 2: Statistics of LEDBAT

Start at: 2018-04-24 20:41:47  
End at: 2018-04-24 20:42:17  
Local clock offset: -4.918 ms  
Remote clock offset: -8.088 ms

# Below is generated by plot.py at 2018-04-24 23:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.32 Mbit/s  
95th percentile per-packet one-way delay: 31.812 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 58.98 Mbit/s  
95th percentile per-packet one-way delay: 32.145 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 42.70 Mbit/s  
95th percentile per-packet one-way delay: 30.672 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 29.98 Mbit/s  
95th percentile per-packet one-way delay: 30.866 ms  
Loss rate: 0.12%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-24 21:01:00

End at: 2018-04-24 21:01:30

Local clock offset: -4.273 ms

Remote clock offset: -6.49 ms

# Below is generated by plot.py at 2018-04-24 23:51:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.29 Mbit/s

95th percentile per-packet one-way delay: 31.341 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 31.350 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 44.22 Mbit/s

95th percentile per-packet one-way delay: 31.369 ms

Loss rate: 0.04%

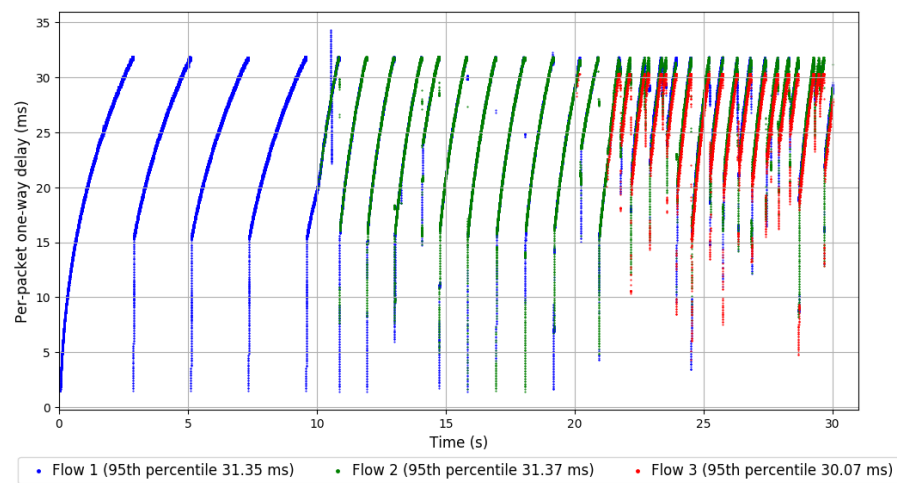
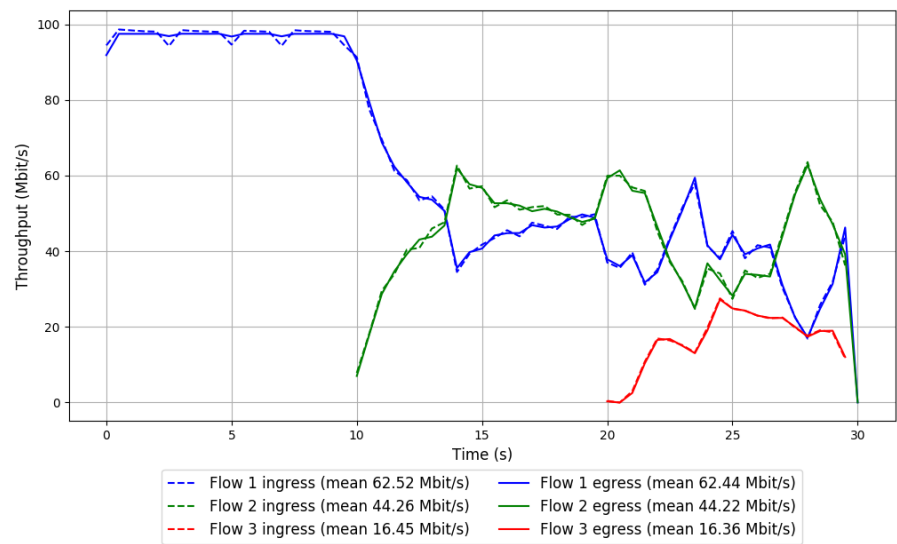
-- Flow 3:

Average throughput: 16.36 Mbit/s

95th percentile per-packet one-way delay: 30.068 ms

Loss rate: 0.53%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-24 21:20:12

End at: 2018-04-24 21:20:42

Local clock offset: -4.796 ms

Remote clock offset: -5.01 ms

# Below is generated by plot.py at 2018-04-24 23:51:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.38 Mbit/s

95th percentile per-packet one-way delay: 31.339 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 61.37 Mbit/s

95th percentile per-packet one-way delay: 30.636 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 38.02 Mbit/s

95th percentile per-packet one-way delay: 32.103 ms

Loss rate: 0.07%

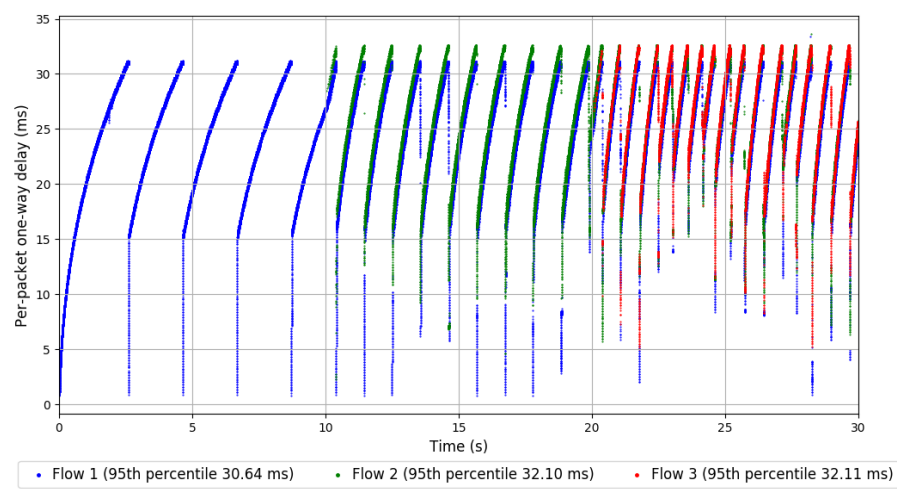
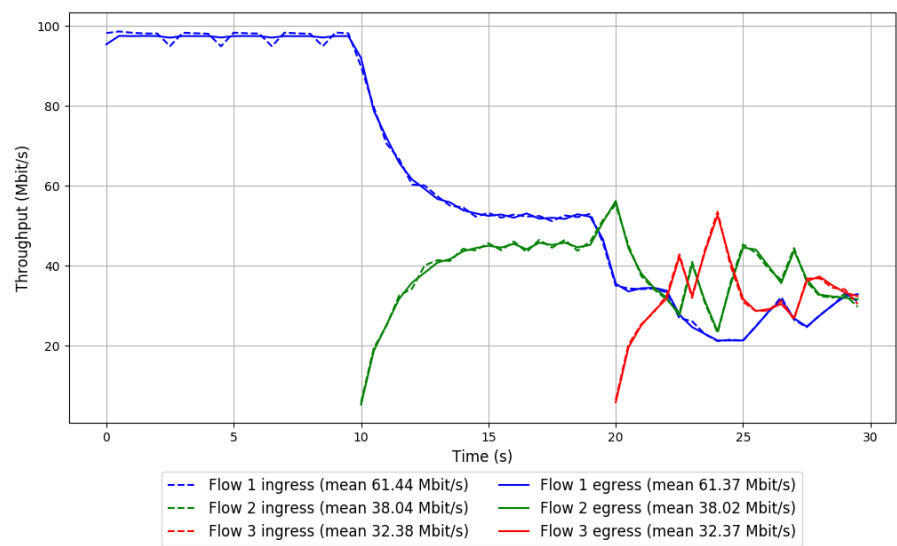
-- Flow 3:

Average throughput: 32.37 Mbit/s

95th percentile per-packet one-way delay: 32.113 ms

Loss rate: 0.05%

Run 4: Report of LEDBAT — Data Link



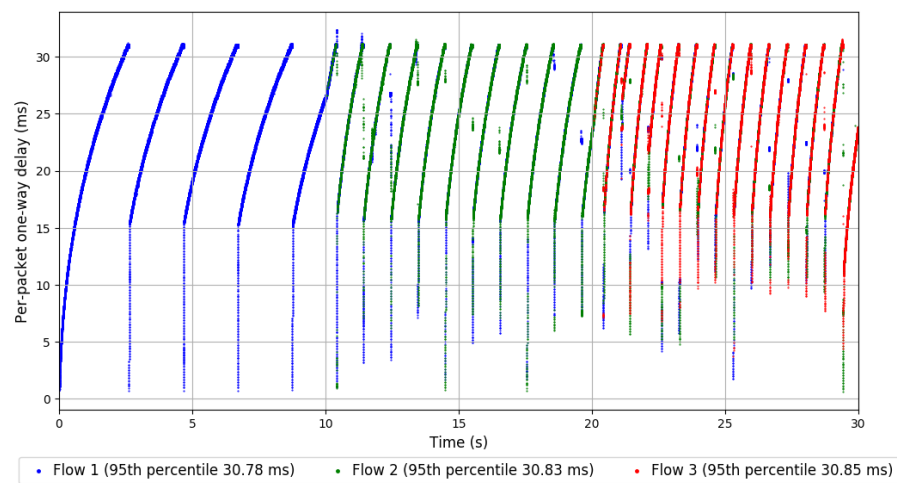
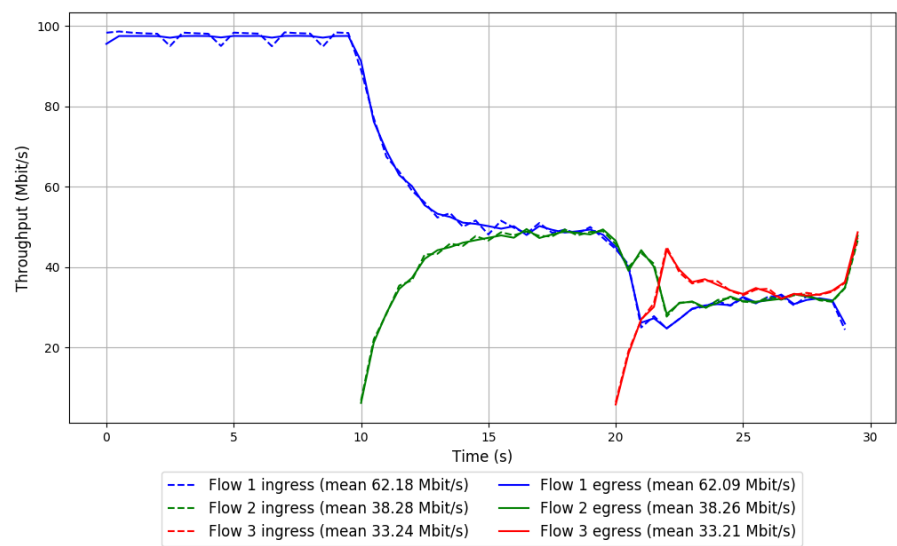


Run 5: Statistics of LEDBAT

Start at: 2018-04-24 21:39:23  
End at: 2018-04-24 21:39:53  
Local clock offset: -4.868 ms  
Remote clock offset: -4.795 ms

# Below is generated by plot.py at 2018-04-24 23:52:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.40 Mbit/s  
95th percentile per-packet one-way delay: 30.810 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 62.09 Mbit/s  
95th percentile per-packet one-way delay: 30.776 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 38.26 Mbit/s  
95th percentile per-packet one-way delay: 30.831 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 33.21 Mbit/s  
95th percentile per-packet one-way delay: 30.853 ms  
Loss rate: 0.09%

Run 5: Report of LEDBAT — Data Link

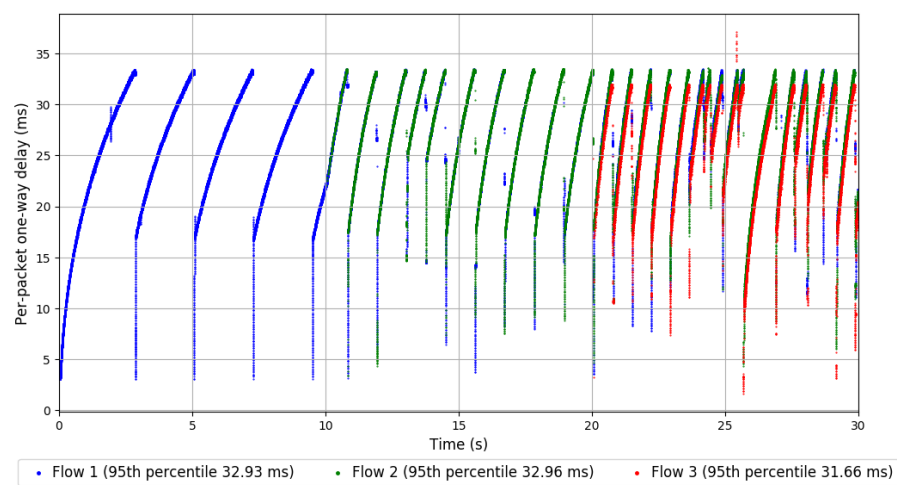
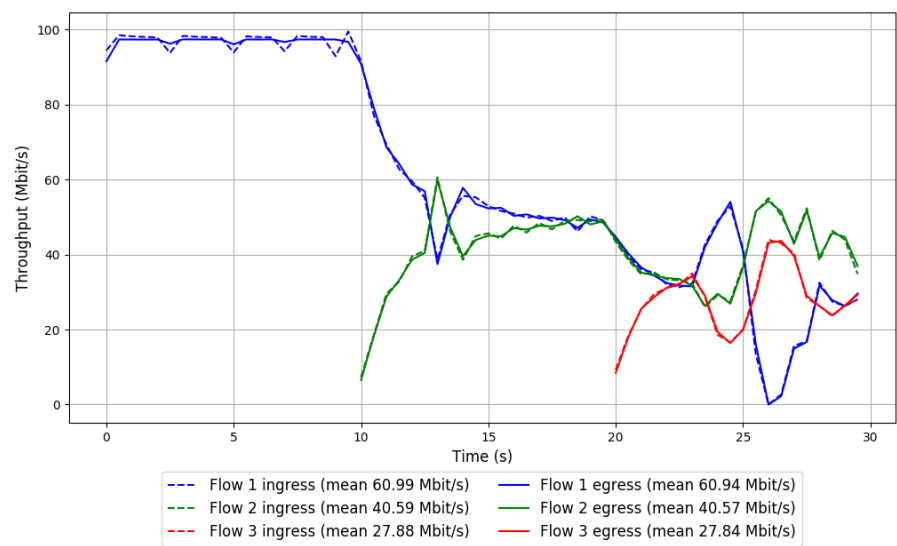


Run 6: Statistics of LEDBAT

Start at: 2018-04-24 21:58:32  
End at: 2018-04-24 21:59:02  
Local clock offset: -5.988 ms  
Remote clock offset: -4.441 ms

# Below is generated by plot.py at 2018-04-24 23:52:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.17 Mbit/s  
95th percentile per-packet one-way delay: 32.921 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 60.94 Mbit/s  
95th percentile per-packet one-way delay: 32.932 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 32.957 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 27.84 Mbit/s  
95th percentile per-packet one-way delay: 31.661 ms  
Loss rate: 0.20%

Run 6: Report of LEDBAT — Data Link

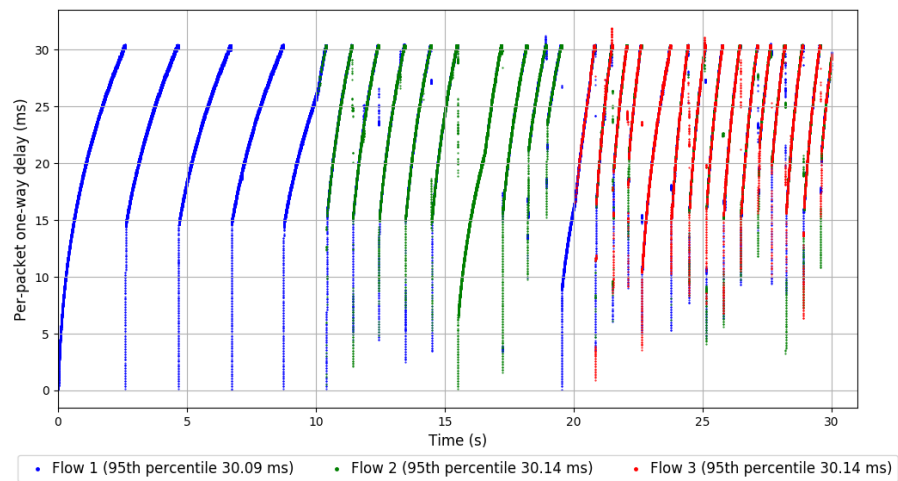
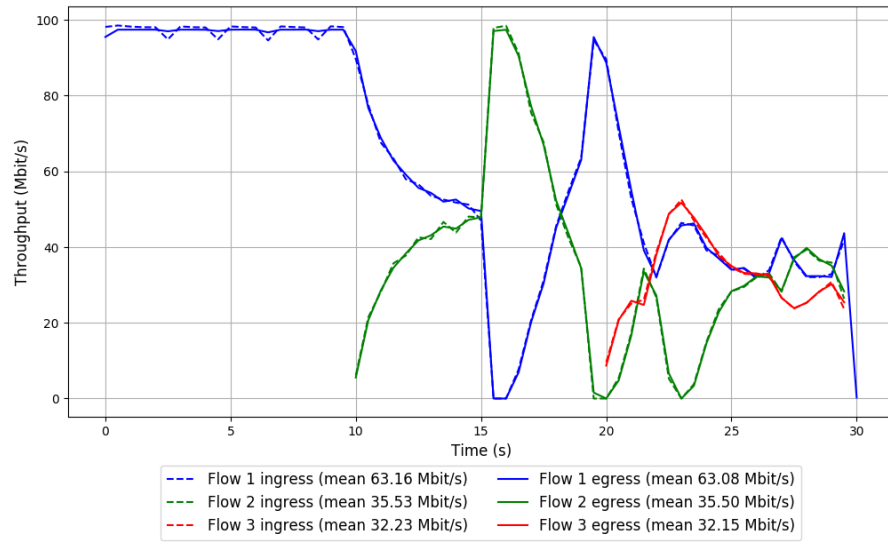


Run 7: Statistics of LEDBAT

Start at: 2018-04-24 22:17:44  
End at: 2018-04-24 22:18:14  
Local clock offset: -4.509 ms  
Remote clock offset: -4.086 ms

# Below is generated by plot.py at 2018-04-24 23:53:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.35 Mbit/s  
95th percentile per-packet one-way delay: 30.121 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 63.08 Mbit/s  
95th percentile per-packet one-way delay: 30.085 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 35.50 Mbit/s  
95th percentile per-packet one-way delay: 30.142 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 32.15 Mbit/s  
95th percentile per-packet one-way delay: 30.145 ms  
Loss rate: 0.12%

## Run 7: Report of LEDBAT — Data Link

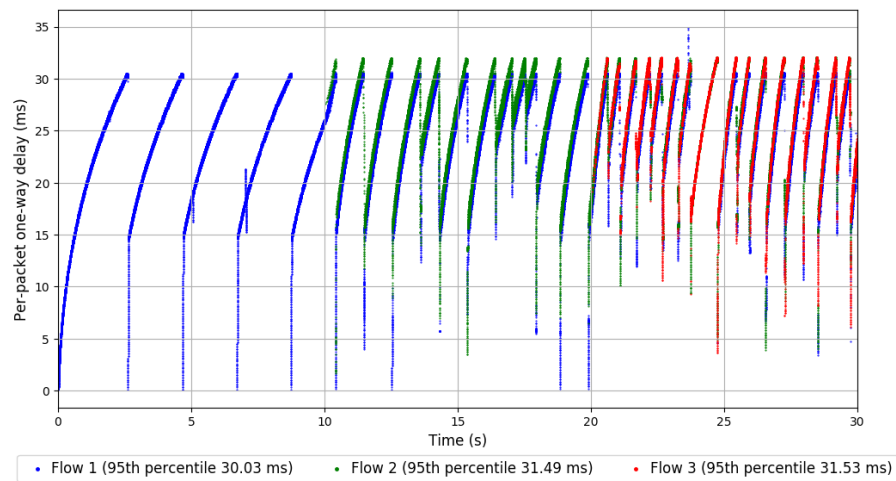
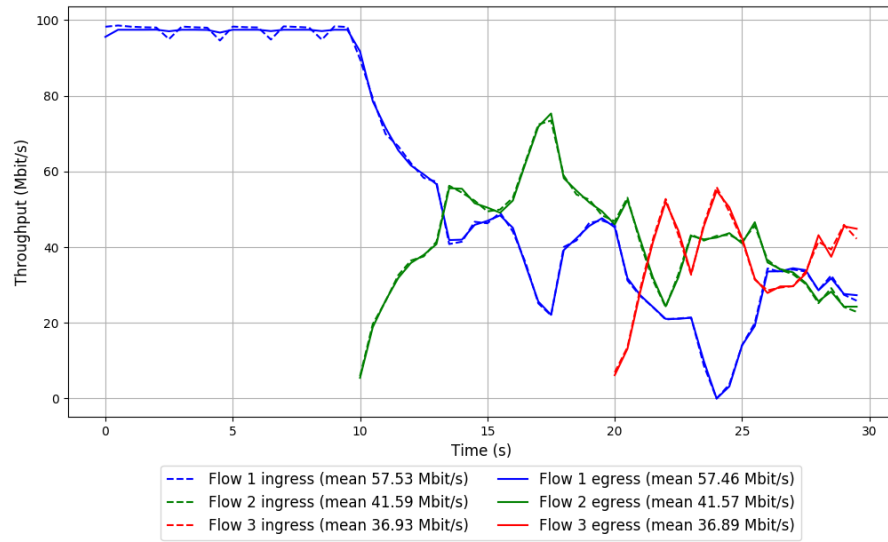


Run 8: Statistics of LEDBAT

Start at: 2018-04-24 22:36:56  
End at: 2018-04-24 22:37:26  
Local clock offset: -4.559 ms  
Remote clock offset: -4.169 ms

# Below is generated by plot.py at 2018-04-24 23:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.35 Mbit/s  
95th percentile per-packet one-way delay: 30.950 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 57.46 Mbit/s  
95th percentile per-packet one-way delay: 30.027 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 41.57 Mbit/s  
95th percentile per-packet one-way delay: 31.488 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 36.89 Mbit/s  
95th percentile per-packet one-way delay: 31.532 ms  
Loss rate: 0.07%

# Run 8: Report of LEDBAT — Data Link



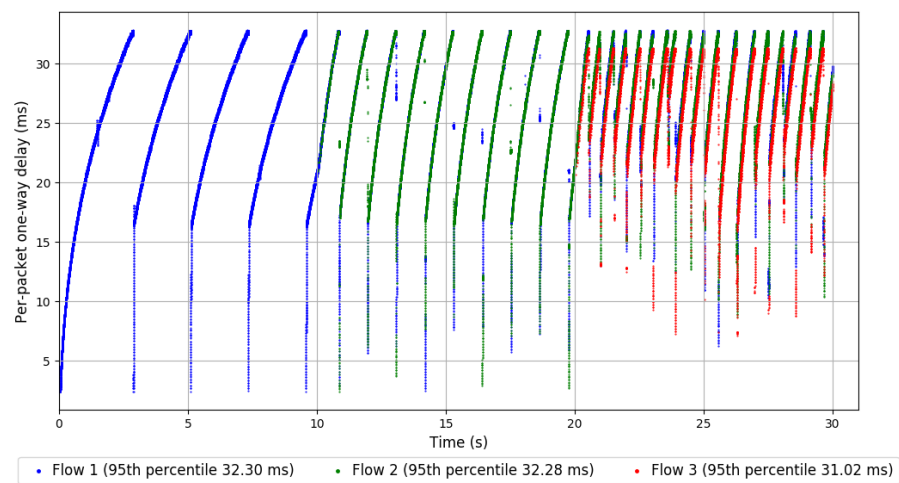
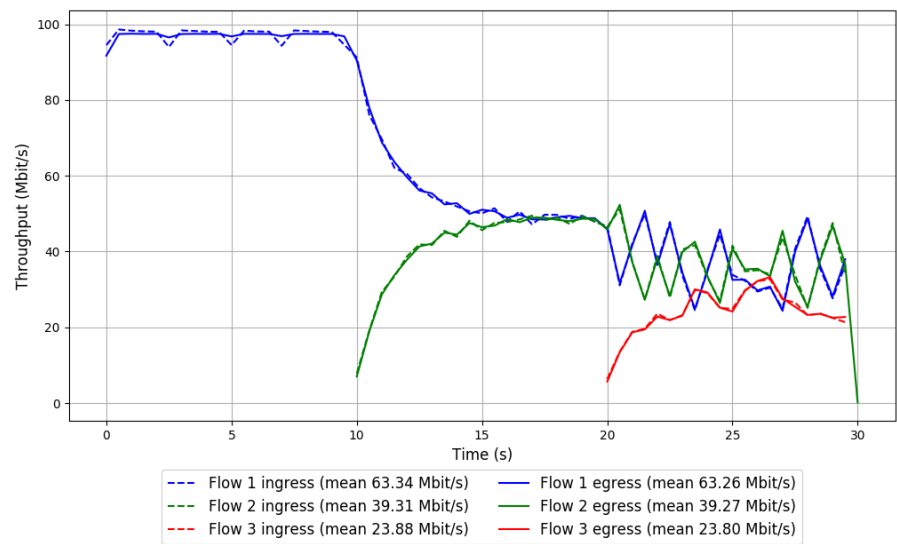


Run 9: Statistics of LEDBAT

Start at: 2018-04-24 22:56:07  
End at: 2018-04-24 22:56:37  
Local clock offset: -5.043 ms  
Remote clock offset: -6.267 ms

# Below is generated by plot.py at 2018-04-24 23:53:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.30 Mbit/s  
95th percentile per-packet one-way delay: 32.270 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 63.26 Mbit/s  
95th percentile per-packet one-way delay: 32.295 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 39.27 Mbit/s  
95th percentile per-packet one-way delay: 32.280 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 23.80 Mbit/s  
95th percentile per-packet one-way delay: 31.021 ms  
Loss rate: 0.26%

Run 9: Report of LEDBAT — Data Link

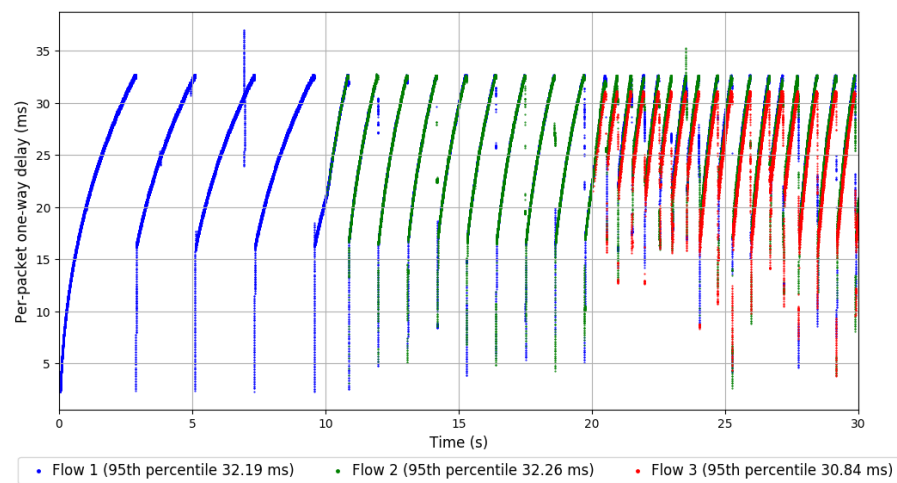
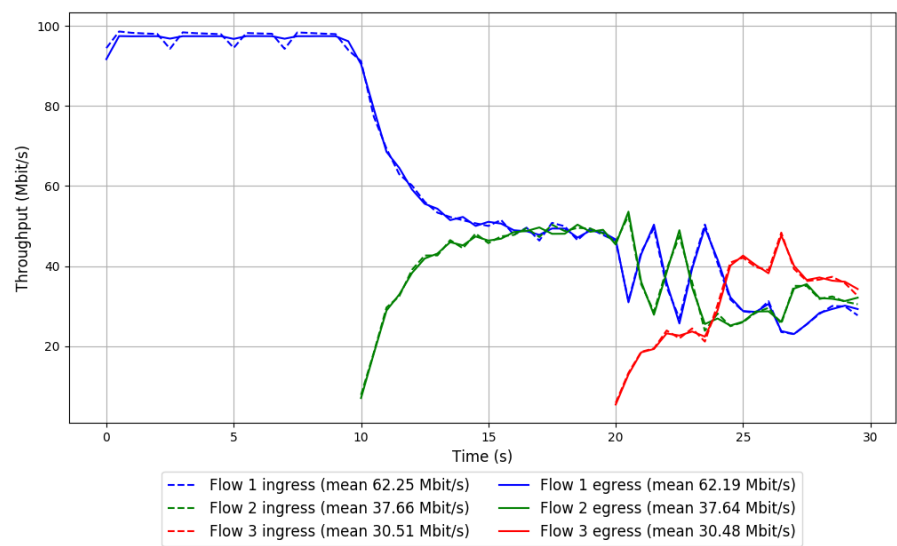


Run 10: Statistics of LEDBAT

Start at: 2018-04-24 23:15:19  
End at: 2018-04-24 23:15:49  
Local clock offset: -4.811 ms  
Remote clock offset: -6.674 ms

# Below is generated by plot.py at 2018-04-24 23:53:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.32 Mbit/s  
95th percentile per-packet one-way delay: 32.172 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 62.19 Mbit/s  
95th percentile per-packet one-way delay: 32.189 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 37.64 Mbit/s  
95th percentile per-packet one-way delay: 32.259 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 30.48 Mbit/s  
95th percentile per-packet one-way delay: 30.841 ms  
Loss rate: 0.10%

Run 10: Report of LEDBAT — Data Link

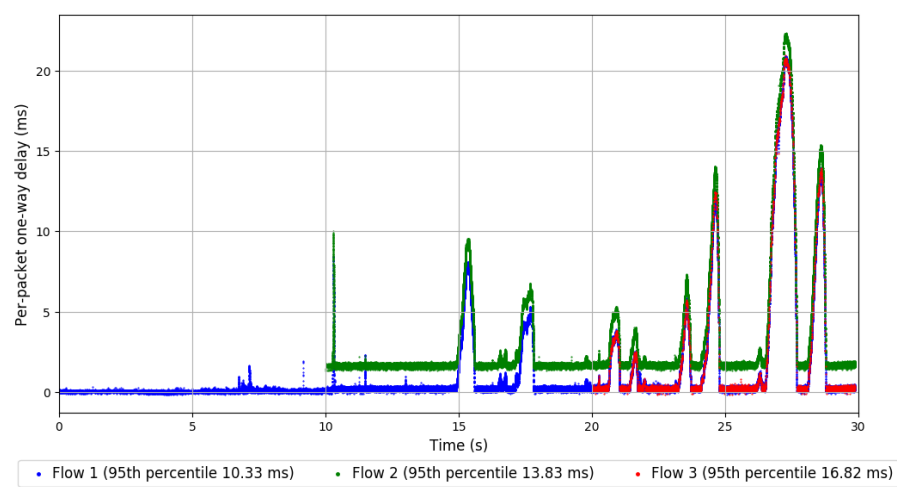
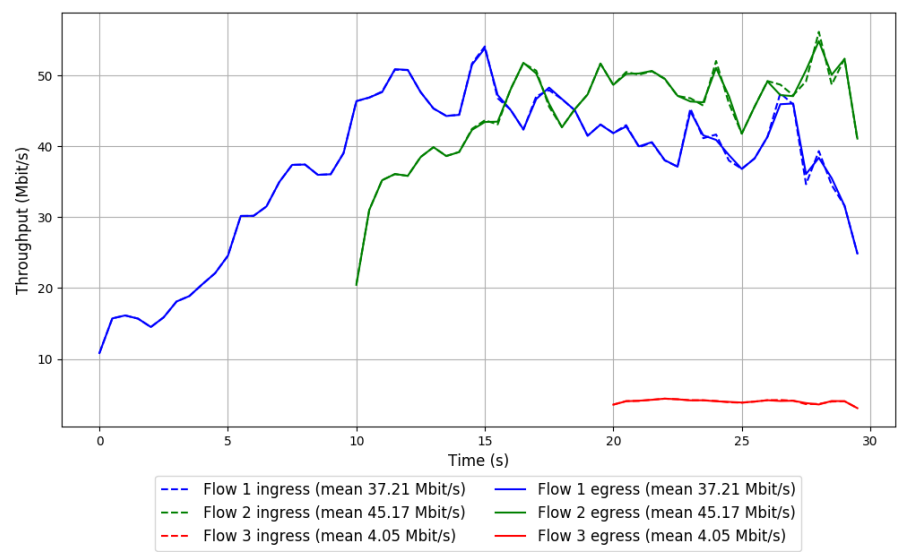


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 20:21:29
End at: 2018-04-24 20:21:59
Local clock offset: -4.24 ms
Remote clock offset: -7.699 ms

# Below is generated by plot.py at 2018-04-24 23:53:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.57 Mbit/s
95th percentile per-packet one-way delay: 12.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 10.328 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.17 Mbit/s
95th percentile per-packet one-way delay: 13.833 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.05 Mbit/s
95th percentile per-packet one-way delay: 16.817 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

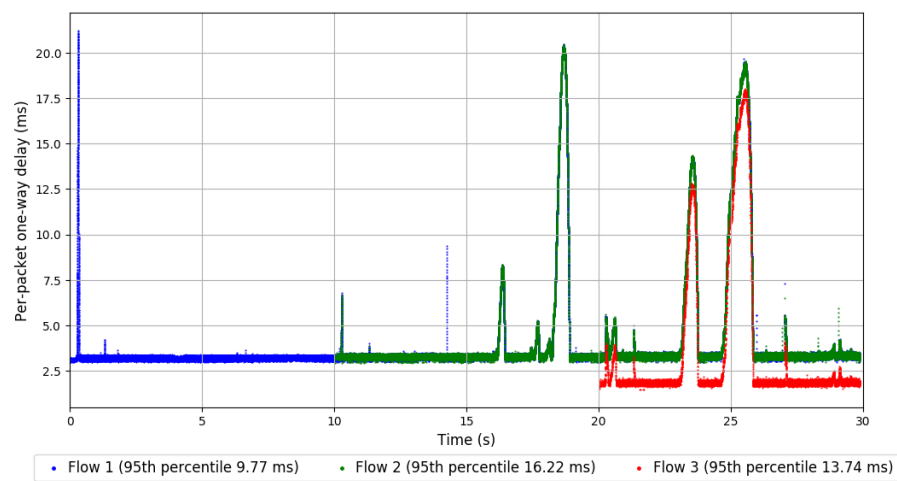
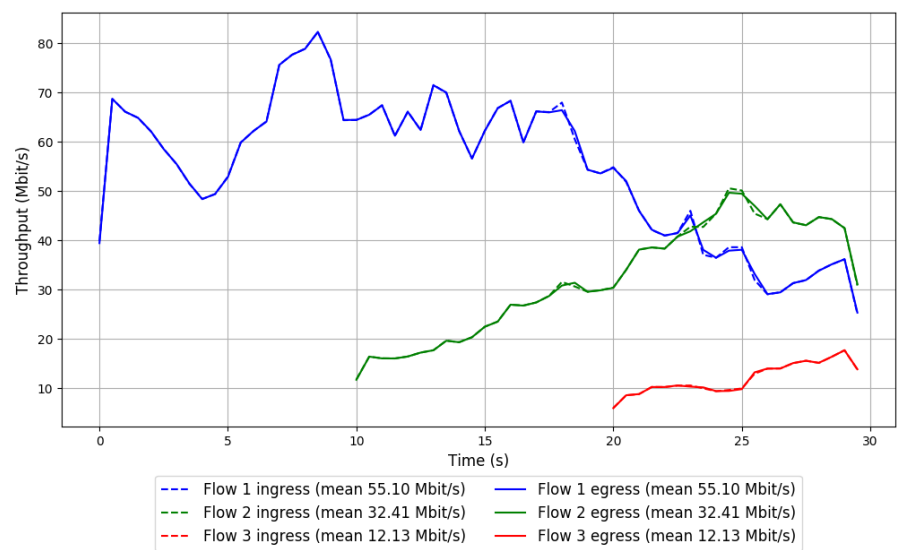


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 20:40:41  
End at: 2018-04-24 20:41:11  
Local clock offset: -5.733 ms  
Remote clock offset: -8.073 ms

# Below is generated by plot.py at 2018-04-24 23:53:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.64 Mbit/s  
95th percentile per-packet one-way delay: 13.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 55.10 Mbit/s  
95th percentile per-packet one-way delay: 9.766 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 32.41 Mbit/s  
95th percentile per-packet one-way delay: 16.220 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 12.13 Mbit/s  
95th percentile per-packet one-way delay: 13.740 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 20:59:53

End at: 2018-04-24 21:00:23

Local clock offset: -5.105 ms

Remote clock offset: -6.69 ms

# Below is generated by plot.py at 2018-04-24 23:53:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 80.23 Mbit/s

95th percentile per-packet one-way delay: 22.495 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 58.23 Mbit/s

95th percentile per-packet one-way delay: 19.529 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.94 Mbit/s

95th percentile per-packet one-way delay: 26.256 ms

Loss rate: 0.00%

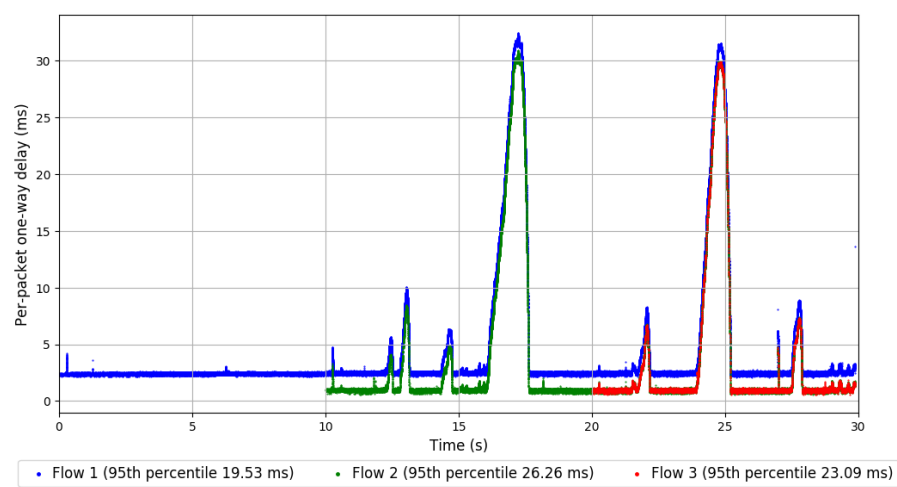
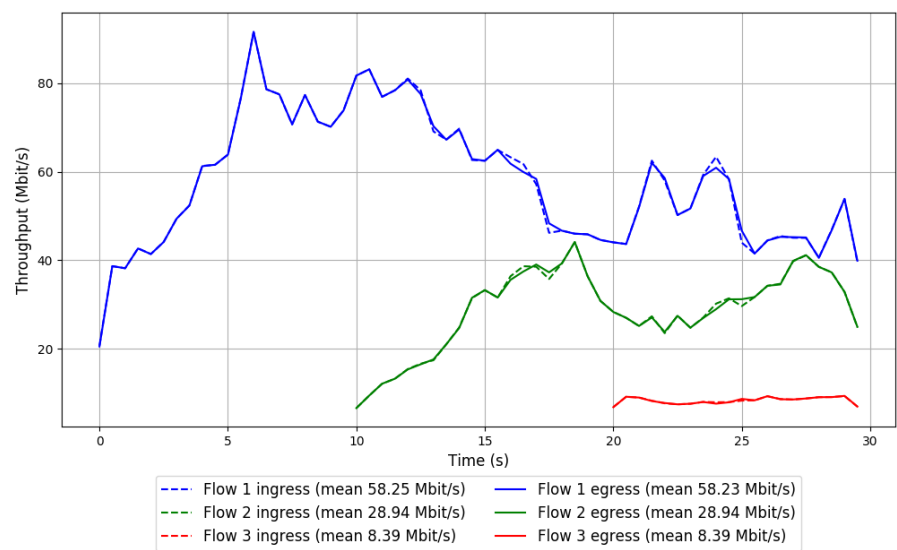
-- Flow 3:

Average throughput: 8.39 Mbit/s

95th percentile per-packet one-way delay: 23.095 ms

Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link

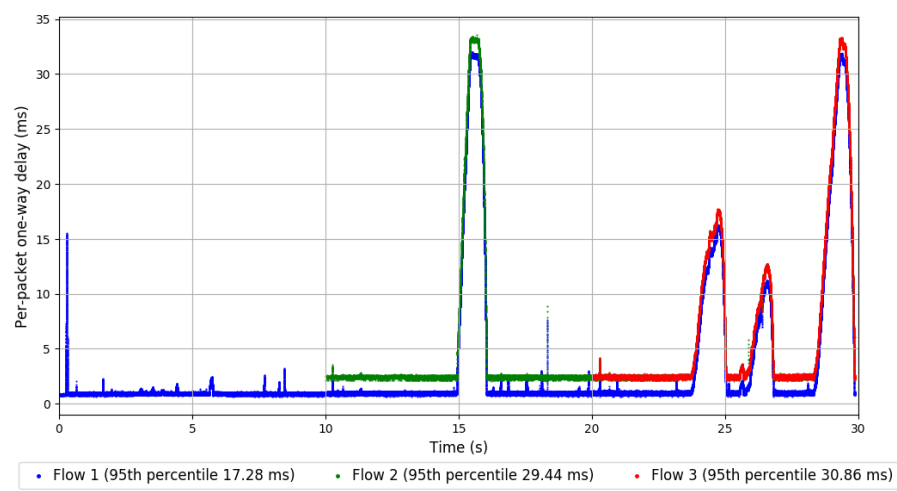
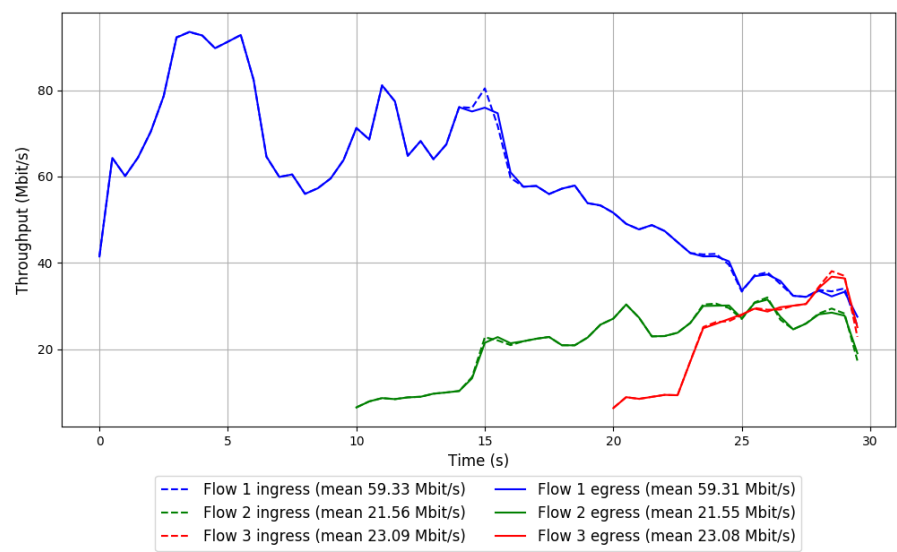


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 21:19:05  
End at: 2018-04-24 21:19:35  
Local clock offset: -4.859 ms  
Remote clock offset: -5.105 ms

# Below is generated by plot.py at 2018-04-24 23:54:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.24 Mbit/s  
95th percentile per-packet one-way delay: 23.778 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 59.31 Mbit/s  
95th percentile per-packet one-way delay: 17.276 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 21.55 Mbit/s  
95th percentile per-packet one-way delay: 29.437 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 23.08 Mbit/s  
95th percentile per-packet one-way delay: 30.856 ms  
Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 21:38:17

End at: 2018-04-24 21:38:47

Local clock offset: -5.635 ms

Remote clock offset: -4.75 ms

# Below is generated by plot.py at 2018-04-24 23:54:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 24.480 ms

Loss rate: 0.21%

-- Flow 1:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 23.864 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 41.39 Mbit/s

95th percentile per-packet one-way delay: 25.909 ms

Loss rate: 0.22%

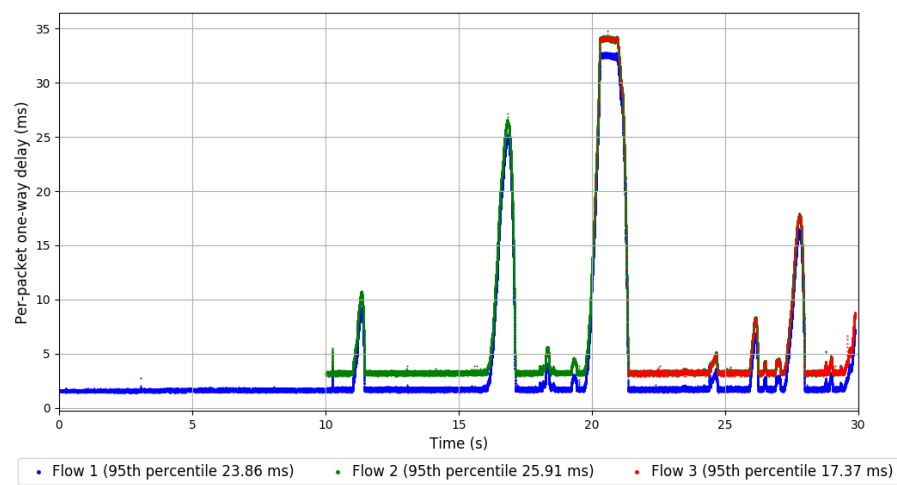
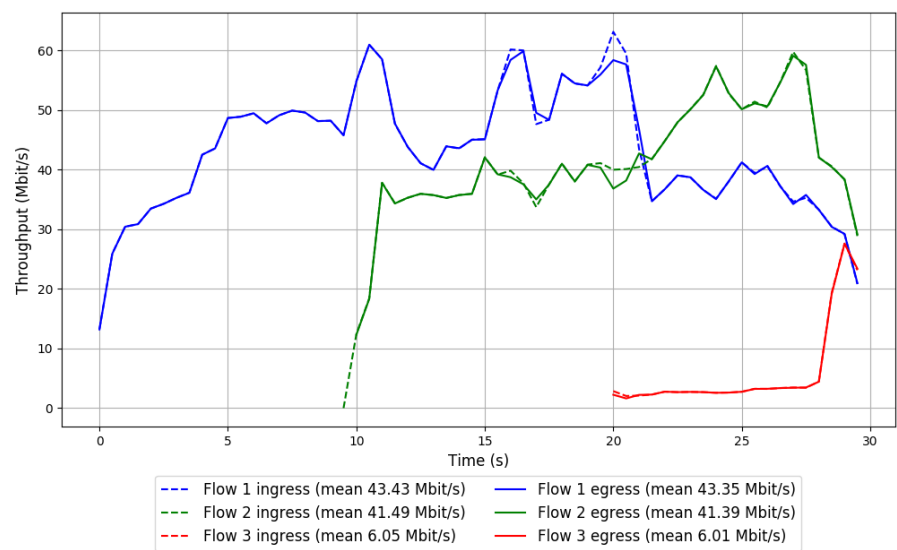
-- Flow 3:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 17.370 ms

Loss rate: 0.73%

Run 5: Report of PCC-Allegro — Data Link

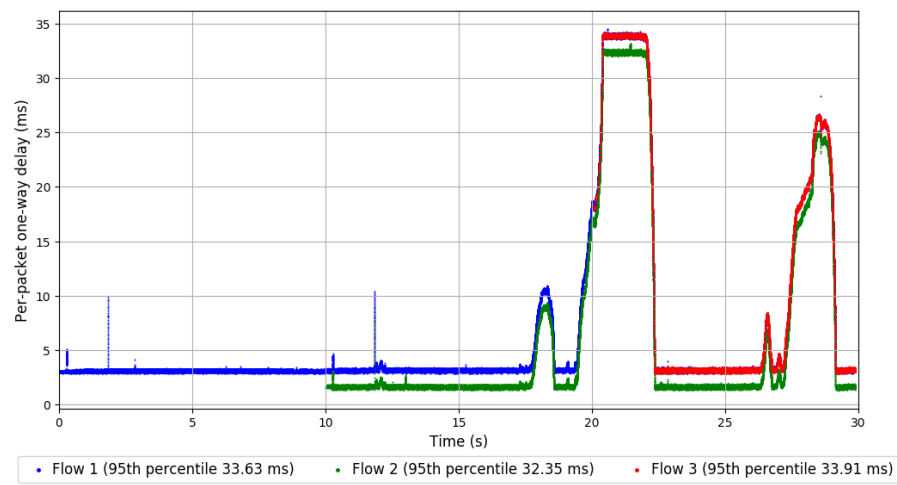
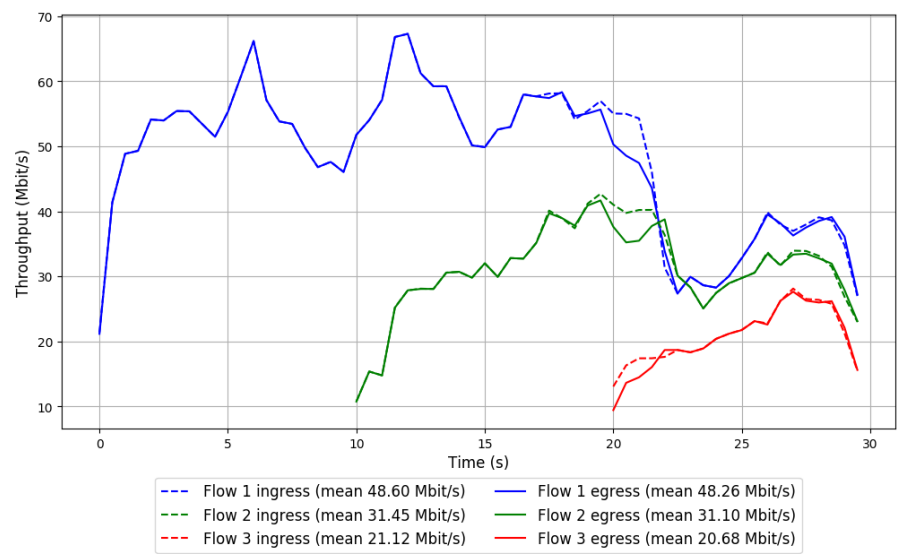


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 21:57:26  
End at: 2018-04-24 21:57:56  
Local clock offset: -5.954 ms  
Remote clock offset: -4.514 ms

# Below is generated by plot.py at 2018-04-24 23:54:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.76 Mbit/s  
95th percentile per-packet one-way delay: 32.455 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 48.26 Mbit/s  
95th percentile per-packet one-way delay: 33.635 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 31.10 Mbit/s  
95th percentile per-packet one-way delay: 32.348 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 20.68 Mbit/s  
95th percentile per-packet one-way delay: 33.915 ms  
Loss rate: 2.26%

Run 6: Report of PCC-Allegro — Data Link



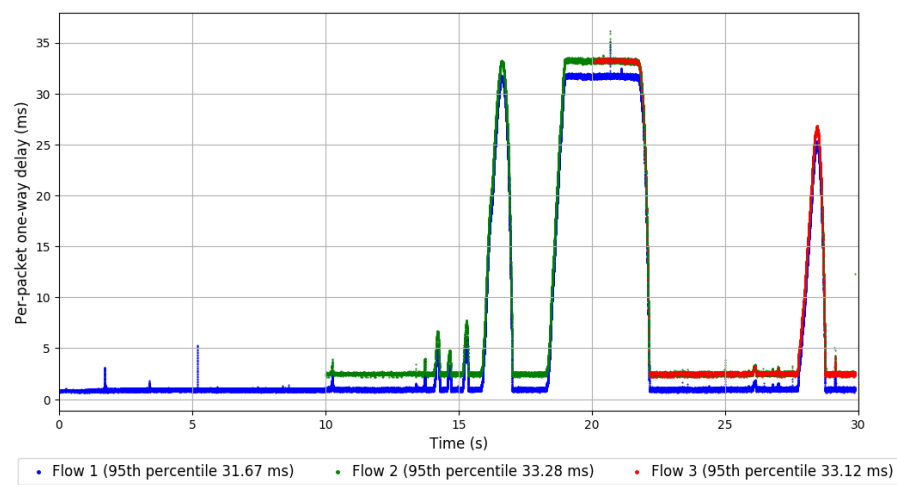
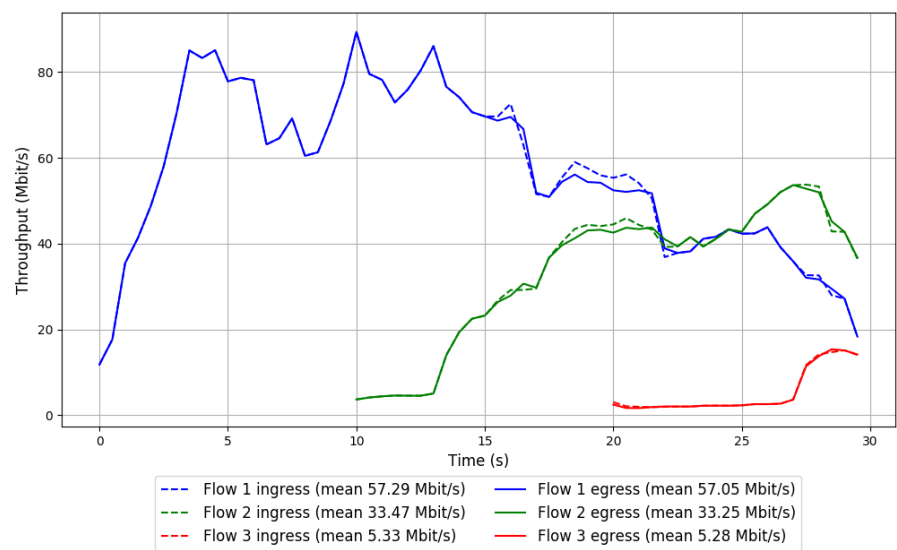


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 22:16:37  
End at: 2018-04-24 22:17:07  
Local clock offset: -5.281 ms  
Remote clock offset: -4.096 ms

# Below is generated by plot.py at 2018-04-24 23:54:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.88 Mbit/s  
95th percentile per-packet one-way delay: 32.980 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 57.05 Mbit/s  
95th percentile per-packet one-way delay: 31.671 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 33.25 Mbit/s  
95th percentile per-packet one-way delay: 33.277 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 5.28 Mbit/s  
95th percentile per-packet one-way delay: 33.118 ms  
Loss rate: 1.11%

Run 7: Report of PCC-Allegro — Data Link

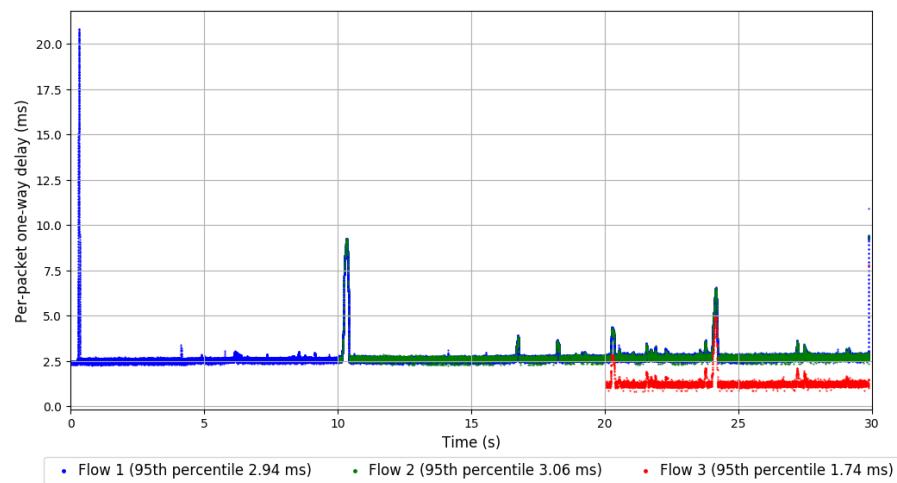
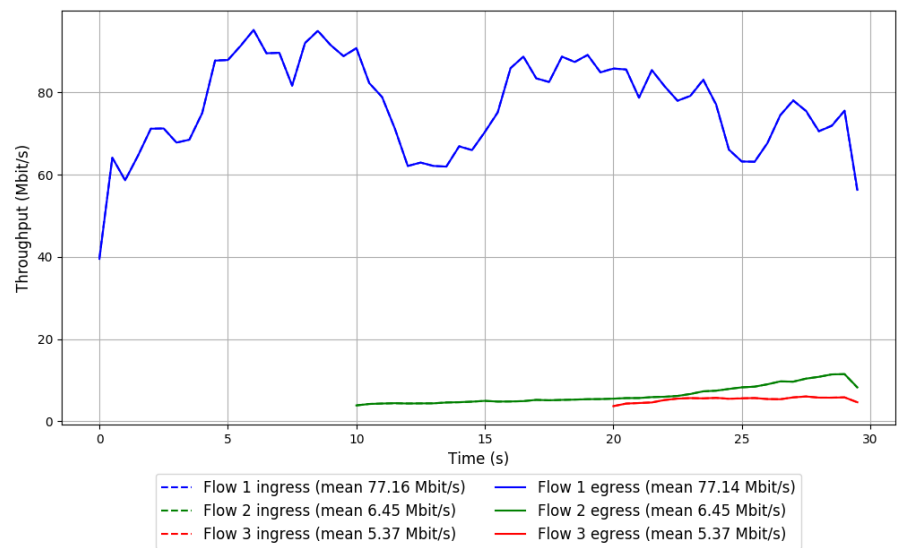


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 22:35:49  
End at: 2018-04-24 22:36:19  
Local clock offset: -5.312 ms  
Remote clock offset: -3.811 ms

# Below is generated by plot.py at 2018-04-24 23:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.20 Mbit/s  
95th percentile per-packet one-way delay: 2.941 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 77.14 Mbit/s  
95th percentile per-packet one-way delay: 2.945 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.45 Mbit/s  
95th percentile per-packet one-way delay: 3.060 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 5.37 Mbit/s  
95th percentile per-packet one-way delay: 1.736 ms  
Loss rate: 0.00%

Run 8: Report of PCC-Allegro — Data Link

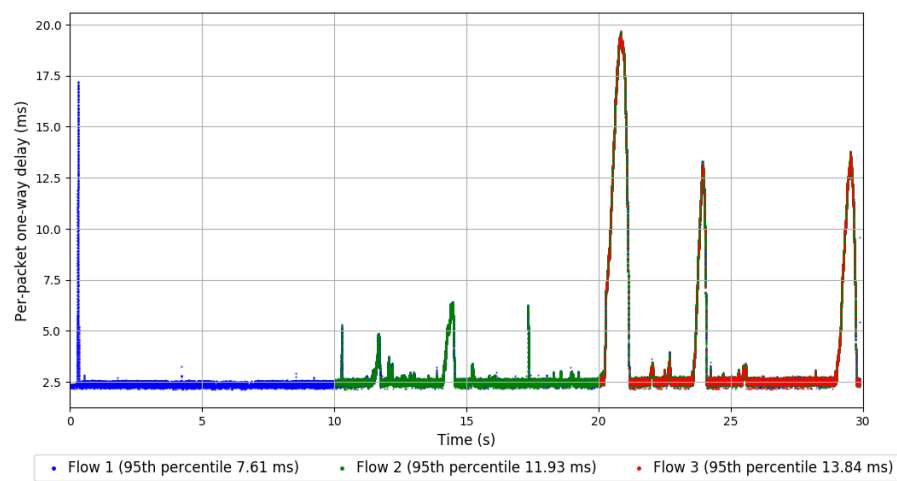
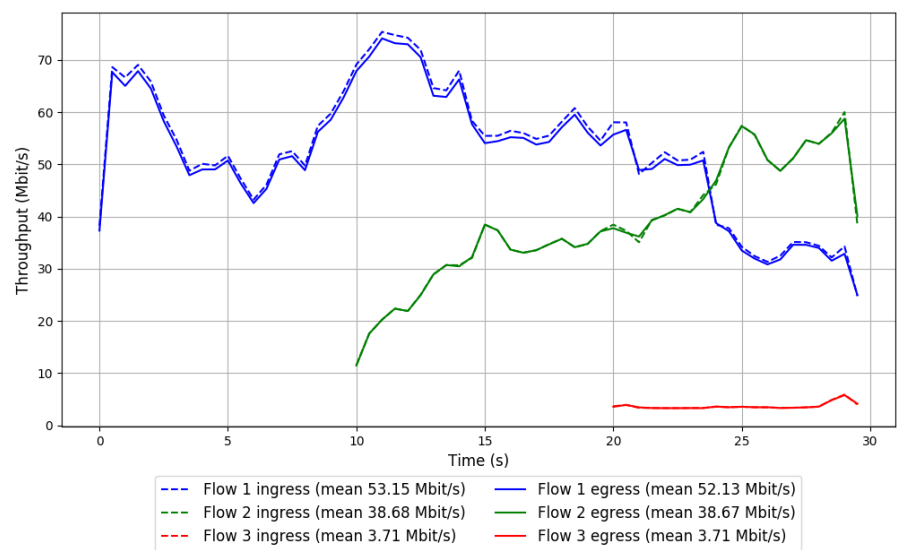


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 22:55:01  
End at: 2018-04-24 22:55:31  
Local clock offset: -4.984 ms  
Remote clock offset: -6.234 ms

# Below is generated by plot.py at 2018-04-24 23:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.06 Mbit/s  
95th percentile per-packet one-way delay: 10.049 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 52.13 Mbit/s  
95th percentile per-packet one-way delay: 7.614 ms  
Loss rate: 1.90%  
-- Flow 2:  
Average throughput: 38.67 Mbit/s  
95th percentile per-packet one-way delay: 11.932 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.71 Mbit/s  
95th percentile per-packet one-way delay: 13.844 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Allegro — Data Link

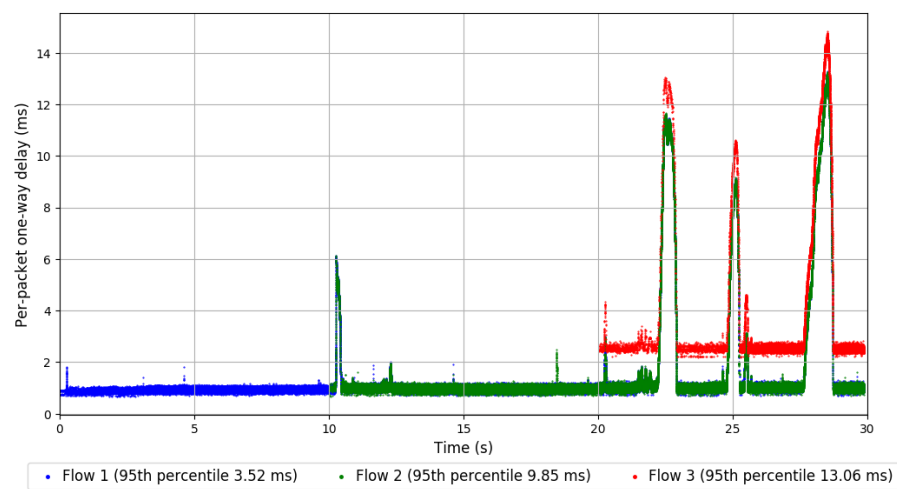
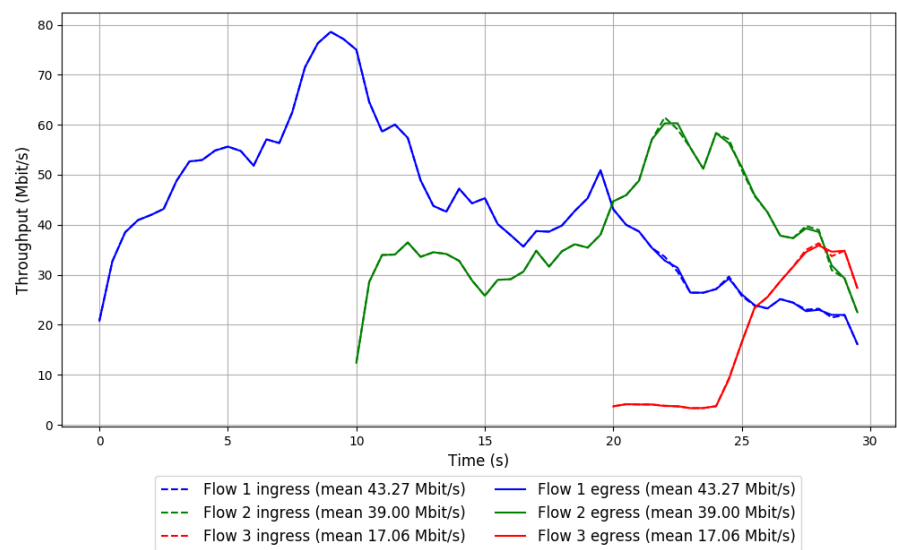


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 23:14:12  
End at: 2018-04-24 23:14:42  
Local clock offset: -4.802 ms  
Remote clock offset: -6.624 ms

# Below is generated by plot.py at 2018-04-24 23:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.82 Mbit/s  
95th percentile per-packet one-way delay: 8.724 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.27 Mbit/s  
95th percentile per-packet one-way delay: 3.523 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.00 Mbit/s  
95th percentile per-packet one-way delay: 9.847 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 17.06 Mbit/s  
95th percentile per-packet one-way delay: 13.065 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Allegro — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 20:15:53

End at: 2018-04-24 20:16:23

Local clock offset: -4.938 ms

Remote clock offset: -7.5 ms

# Below is generated by plot.py at 2018-04-24 23:55:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.22 Mbit/s

95th percentile per-packet one-way delay: 30.863 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 57.11 Mbit/s

95th percentile per-packet one-way delay: 29.620 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 36.78 Mbit/s

95th percentile per-packet one-way delay: 31.382 ms

Loss rate: 0.21%

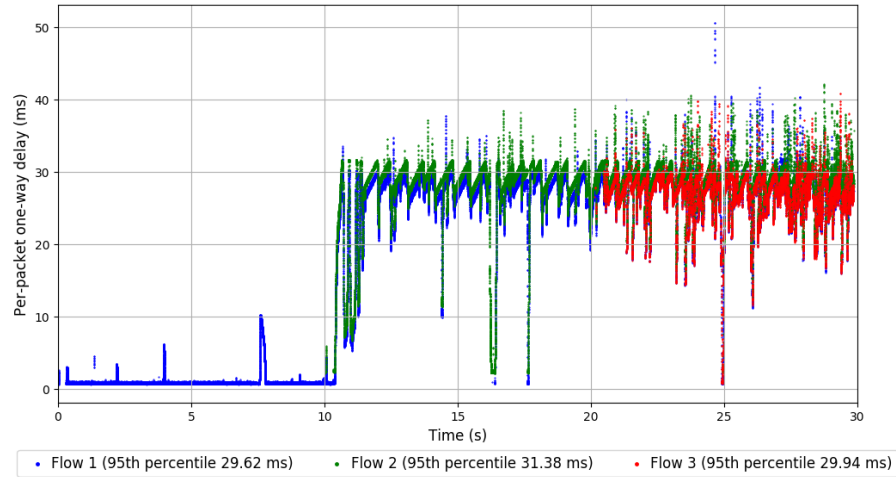
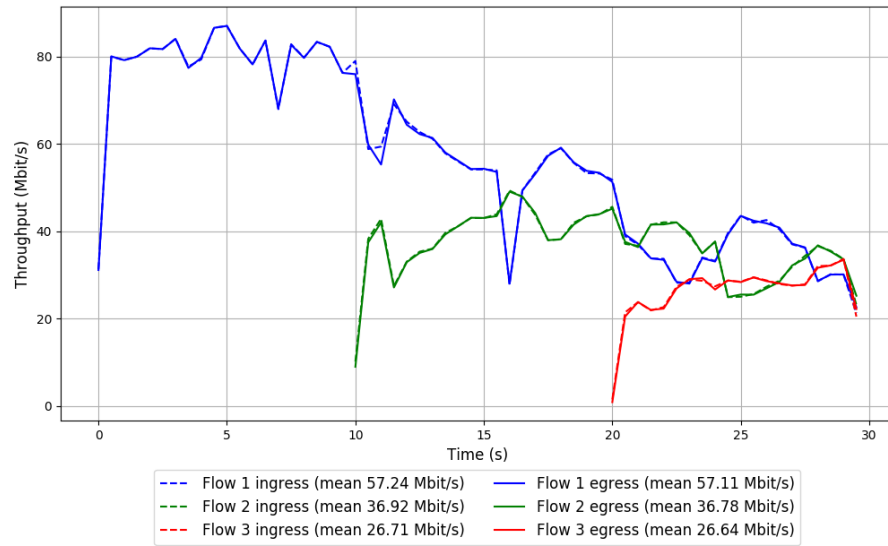
-- Flow 3:

Average throughput: 26.64 Mbit/s

95th percentile per-packet one-way delay: 29.939 ms

Loss rate: 0.24%

# Run 1: Report of QUIC Cubic — Data Link

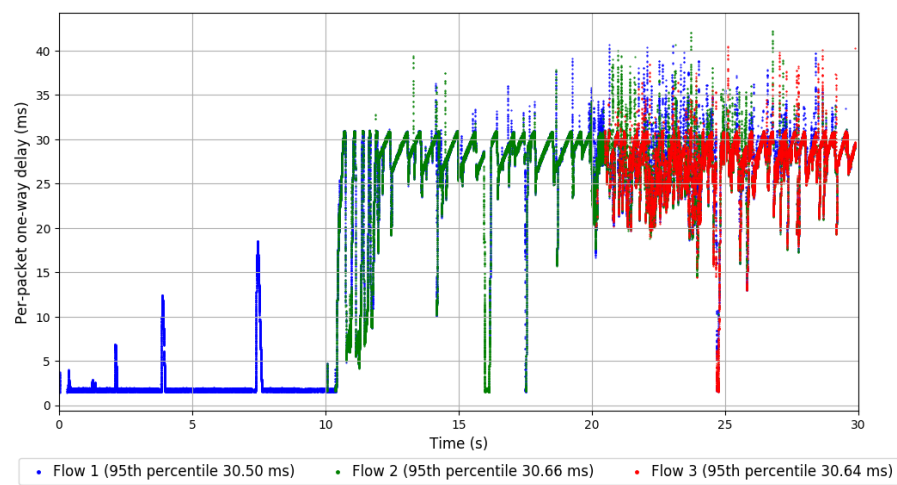
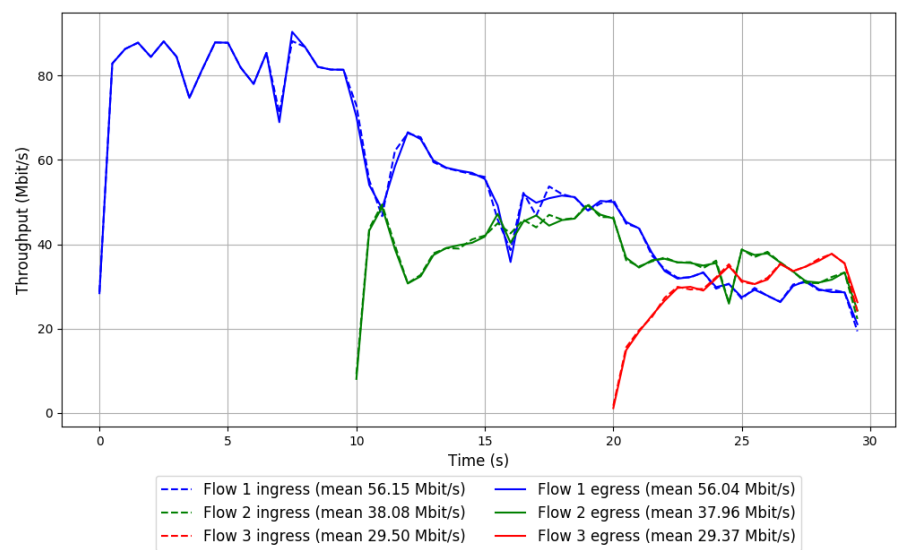


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 20:35:05  
End at: 2018-04-24 20:35:35  
Local clock offset: -4.226 ms  
Remote clock offset: -7.954 ms

# Below is generated by plot.py at 2018-04-24 23:55:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.80 Mbit/s  
95th percentile per-packet one-way delay: 30.590 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 56.04 Mbit/s  
95th percentile per-packet one-way delay: 30.502 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 37.96 Mbit/s  
95th percentile per-packet one-way delay: 30.656 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 29.37 Mbit/s  
95th percentile per-packet one-way delay: 30.643 ms  
Loss rate: 0.21%

Run 2: Report of QUIC Cubic — Data Link

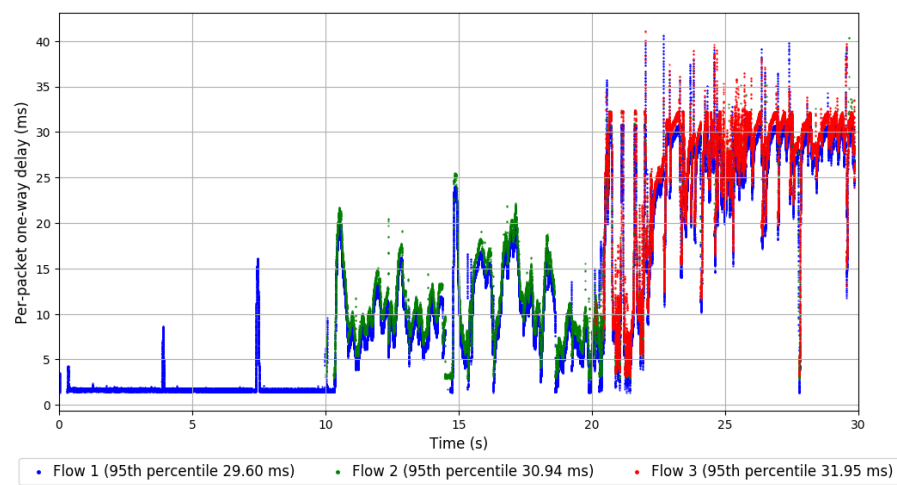
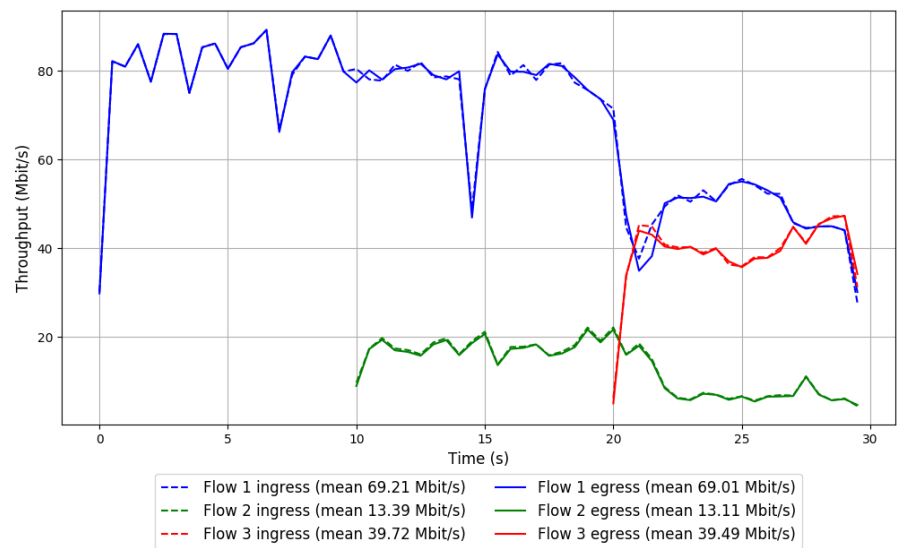


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 20:54:18  
End at: 2018-04-24 20:54:48  
Local clock offset: -5.815 ms  
Remote clock offset: -7.981 ms

# Below is generated by plot.py at 2018-04-24 23:55:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.65 Mbit/s  
95th percentile per-packet one-way delay: 30.702 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 69.01 Mbit/s  
95th percentile per-packet one-way delay: 29.597 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 13.11 Mbit/s  
95th percentile per-packet one-way delay: 30.937 ms  
Loss rate: 1.99%  
-- Flow 3:  
Average throughput: 39.49 Mbit/s  
95th percentile per-packet one-way delay: 31.945 ms  
Loss rate: 0.43%

Run 3: Report of QUIC Cubic — Data Link

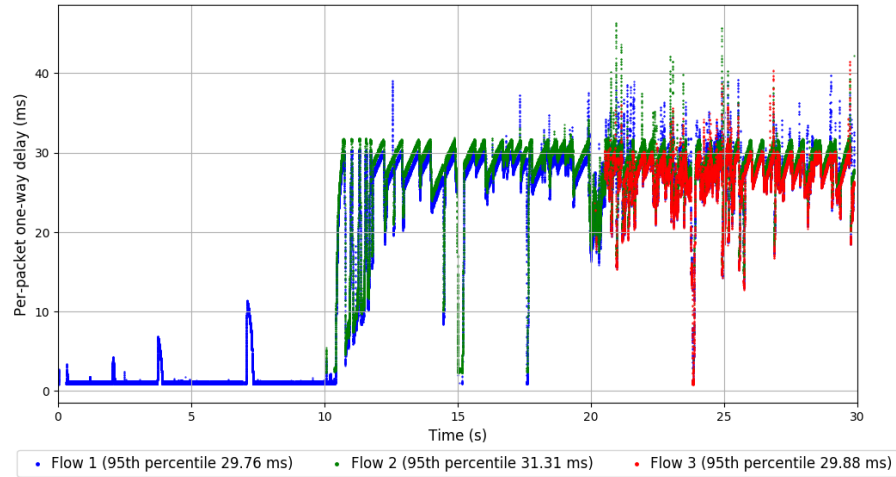
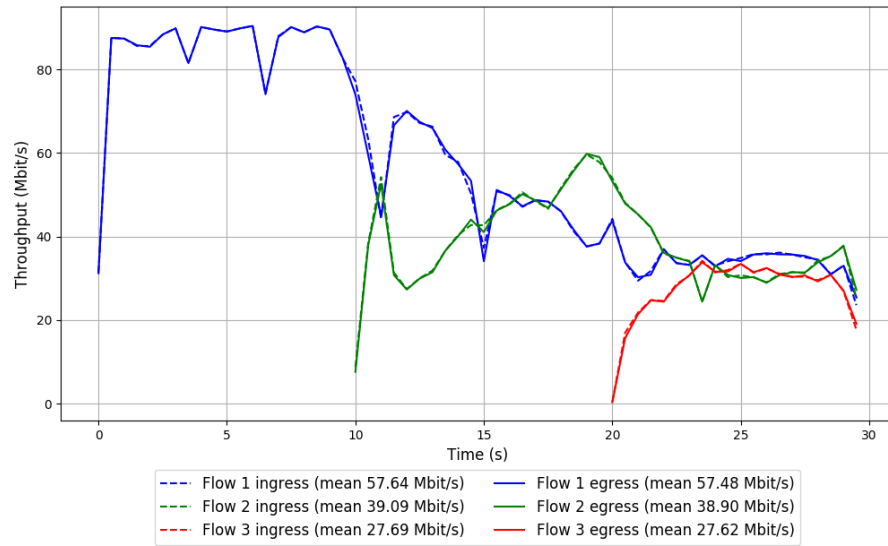


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 21:13:30  
End at: 2018-04-24 21:14:00  
Local clock offset: -4.928 ms  
Remote clock offset: -5.321 ms

# Below is generated by plot.py at 2018-04-24 23:55:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.29 Mbit/s  
95th percentile per-packet one-way delay: 30.886 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 57.48 Mbit/s  
95th percentile per-packet one-way delay: 29.763 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 38.90 Mbit/s  
95th percentile per-packet one-way delay: 31.310 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 27.62 Mbit/s  
95th percentile per-packet one-way delay: 29.881 ms  
Loss rate: 0.22%

#### Run 4: Report of QUIC Cubic — Data Link



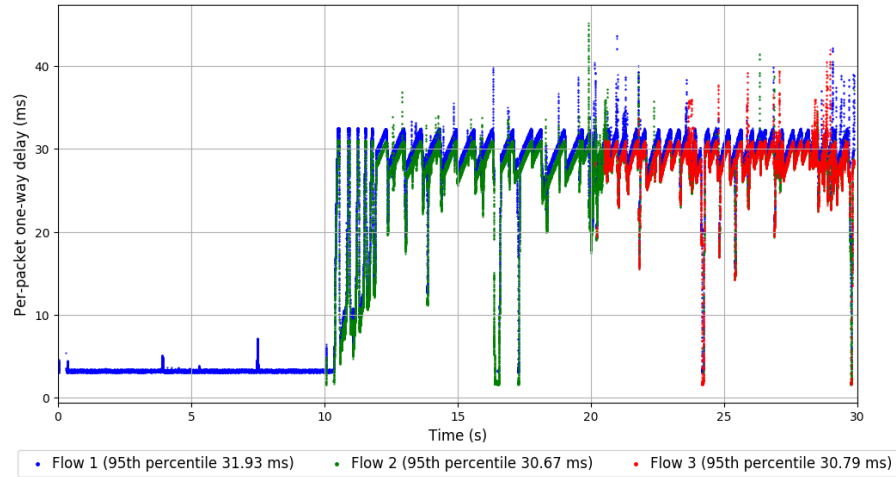
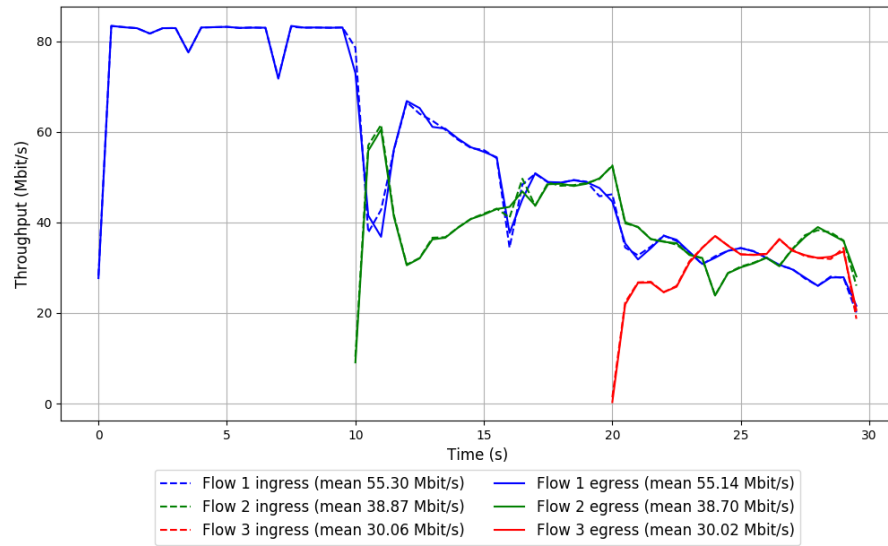


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 21:32:42  
End at: 2018-04-24 21:33:12  
Local clock offset: -5.658 ms  
Remote clock offset: -4.806 ms

# Below is generated by plot.py at 2018-04-24 23:55:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.59 Mbit/s  
95th percentile per-packet one-way delay: 31.718 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 55.14 Mbit/s  
95th percentile per-packet one-way delay: 31.935 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 38.70 Mbit/s  
95th percentile per-packet one-way delay: 30.667 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 30.02 Mbit/s  
95th percentile per-packet one-way delay: 30.789 ms  
Loss rate: 0.14%

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

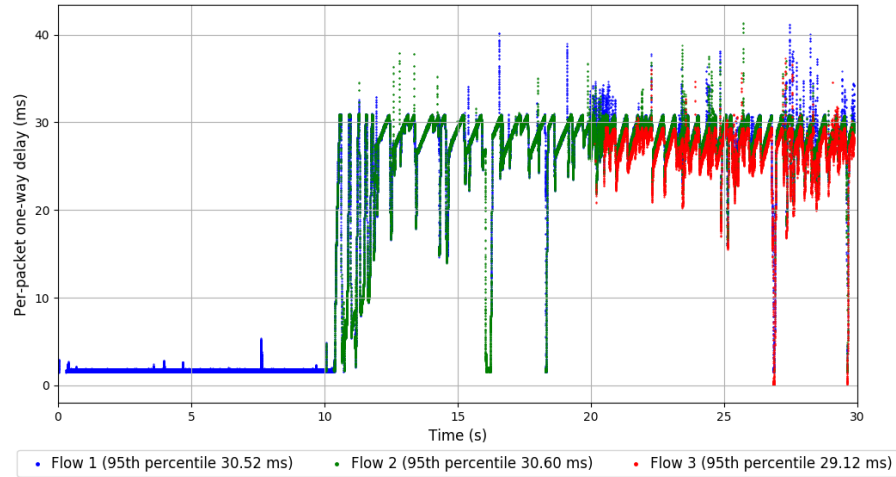
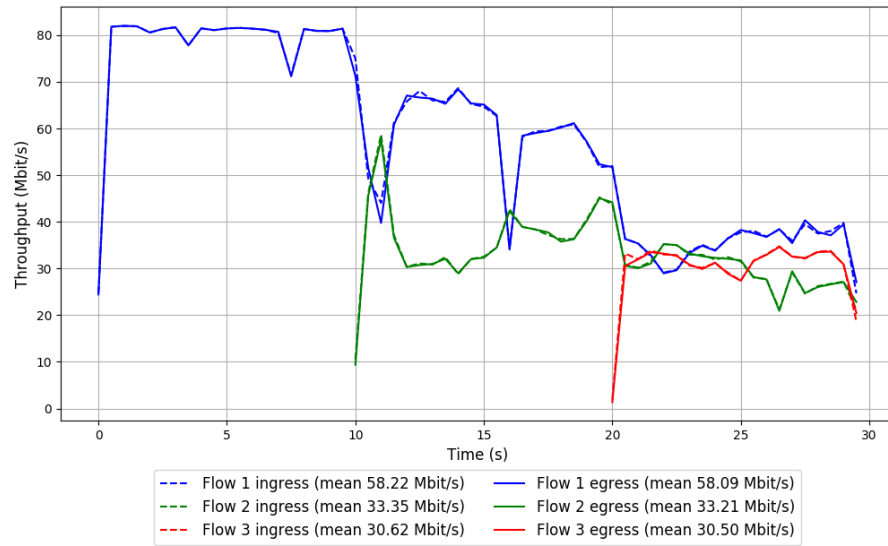


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 21:51:51  
End at: 2018-04-24 21:52:21  
Local clock offset: -4.377 ms  
Remote clock offset: -4.559 ms

# Below is generated by plot.py at 2018-04-24 23:56:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.09 Mbit/s  
95th percentile per-packet one-way delay: 30.522 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 58.09 Mbit/s  
95th percentile per-packet one-way delay: 30.515 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 33.21 Mbit/s  
95th percentile per-packet one-way delay: 30.597 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 30.50 Mbit/s  
95th percentile per-packet one-way delay: 29.120 ms  
Loss rate: 0.41%

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

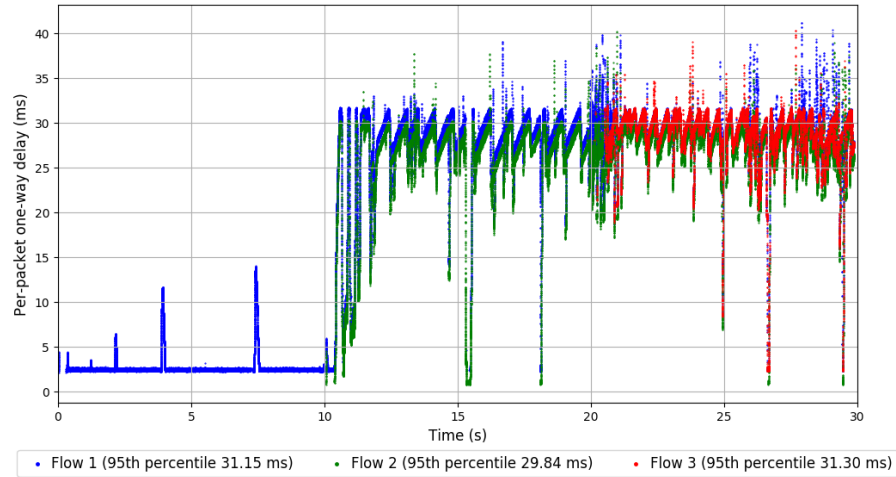
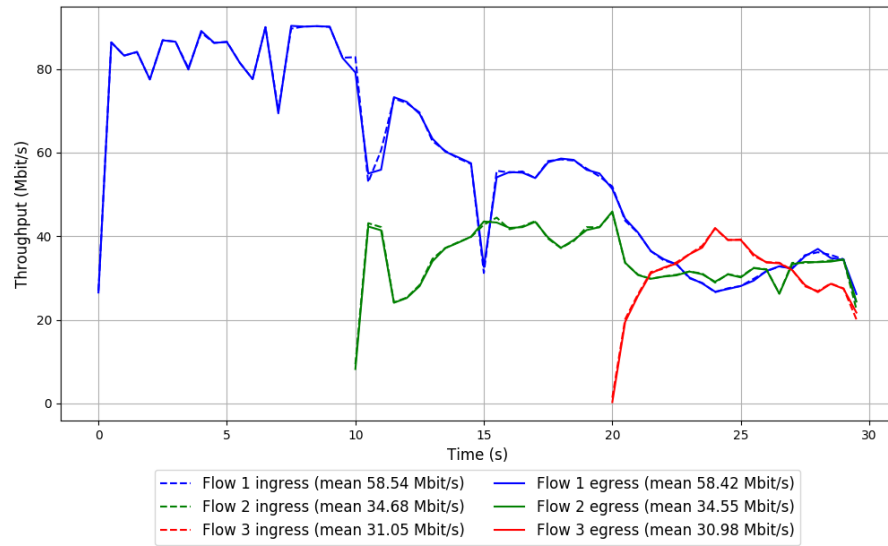


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 22:11:02  
End at: 2018-04-24 22:11:32  
Local clock offset: -5.28 ms  
Remote clock offset: -4.221 ms

# Below is generated by plot.py at 2018-04-24 23:56:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.45 Mbit/s  
95th percentile per-packet one-way delay: 31.103 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 58.42 Mbit/s  
95th percentile per-packet one-way delay: 31.153 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 34.55 Mbit/s  
95th percentile per-packet one-way delay: 29.844 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 30.98 Mbit/s  
95th percentile per-packet one-way delay: 31.297 ms  
Loss rate: 0.21%

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

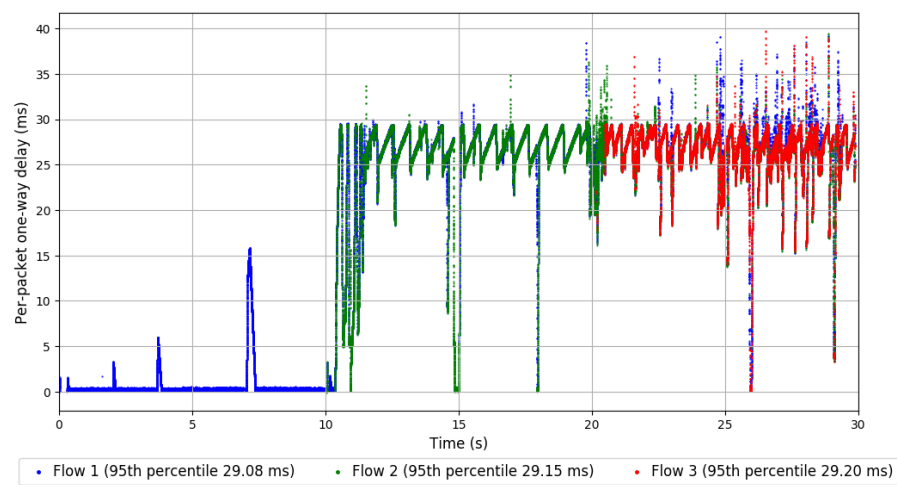
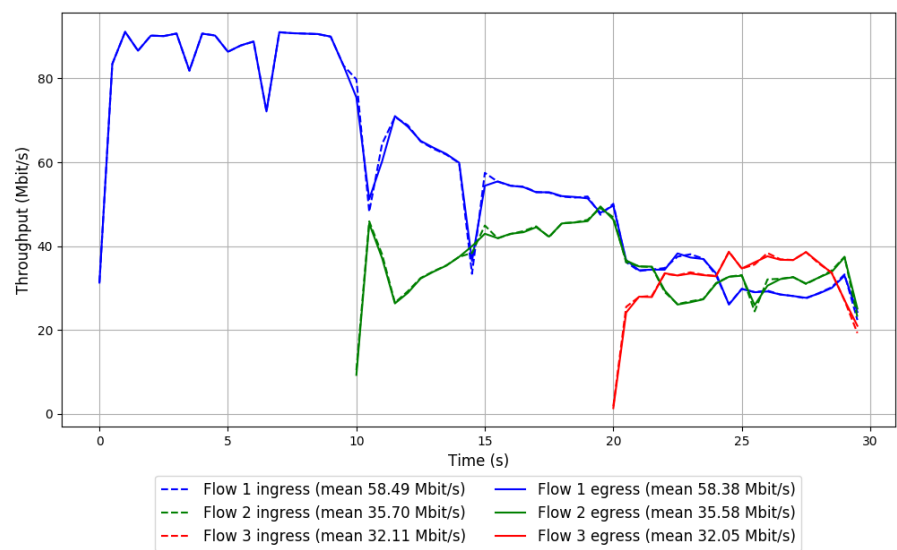


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 22:30:13  
End at: 2018-04-24 22:30:43  
Local clock offset: -4.531 ms  
Remote clock offset: -3.813 ms

# Below is generated by plot.py at 2018-04-24 23:56:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.44 Mbit/s  
95th percentile per-packet one-way delay: 29.123 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 58.38 Mbit/s  
95th percentile per-packet one-way delay: 29.084 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 35.58 Mbit/s  
95th percentile per-packet one-way delay: 29.146 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 32.05 Mbit/s  
95th percentile per-packet one-way delay: 29.204 ms  
Loss rate: 0.14%

Run 8: Report of QUIC Cubic — Data Link



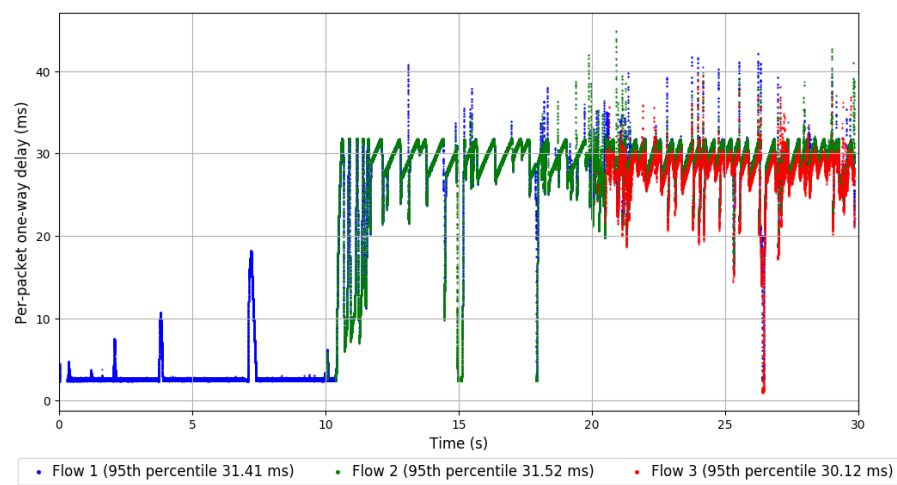
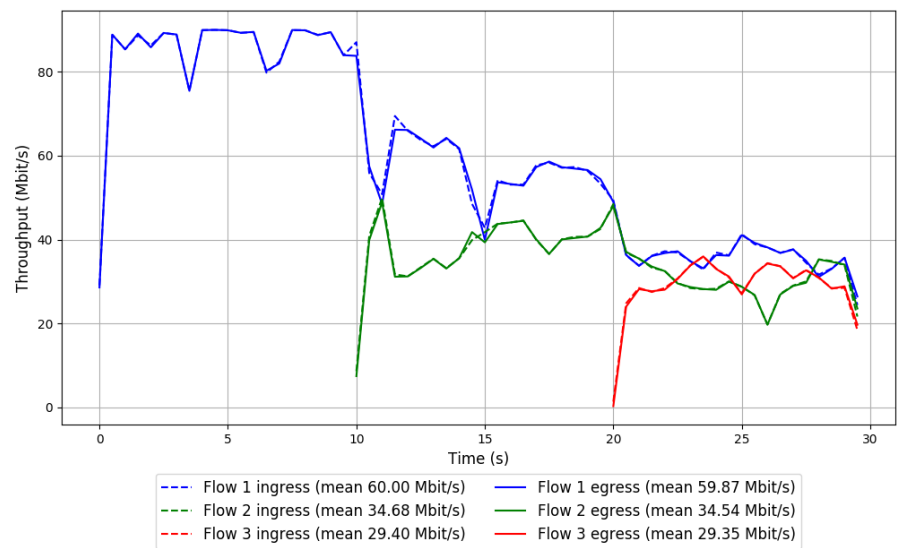


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 22:49:25  
End at: 2018-04-24 22:49:55  
Local clock offset: -5.255 ms  
Remote clock offset: -5.895 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.36 Mbit/s  
95th percentile per-packet one-way delay: 31.441 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 59.87 Mbit/s  
95th percentile per-packet one-way delay: 31.413 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 34.54 Mbit/s  
95th percentile per-packet one-way delay: 31.518 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 29.35 Mbit/s  
95th percentile per-packet one-way delay: 30.121 ms  
Loss rate: 0.22%

Run 9: Report of QUIC Cubic — Data Link

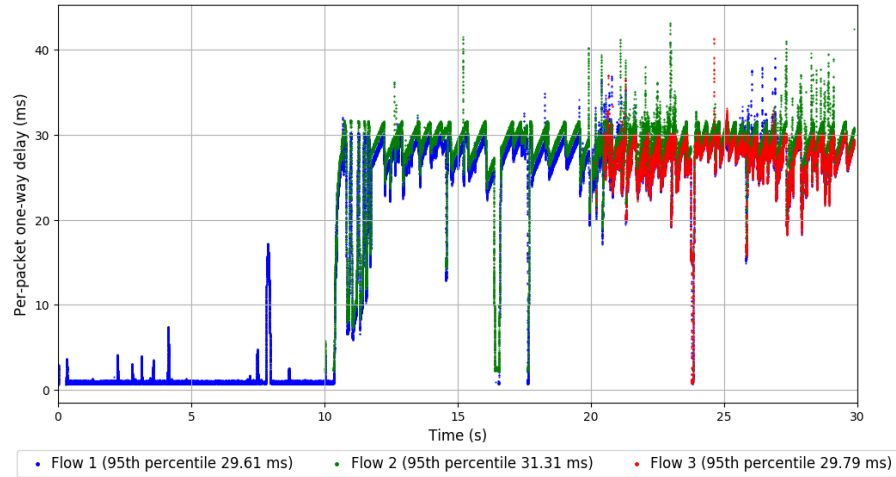
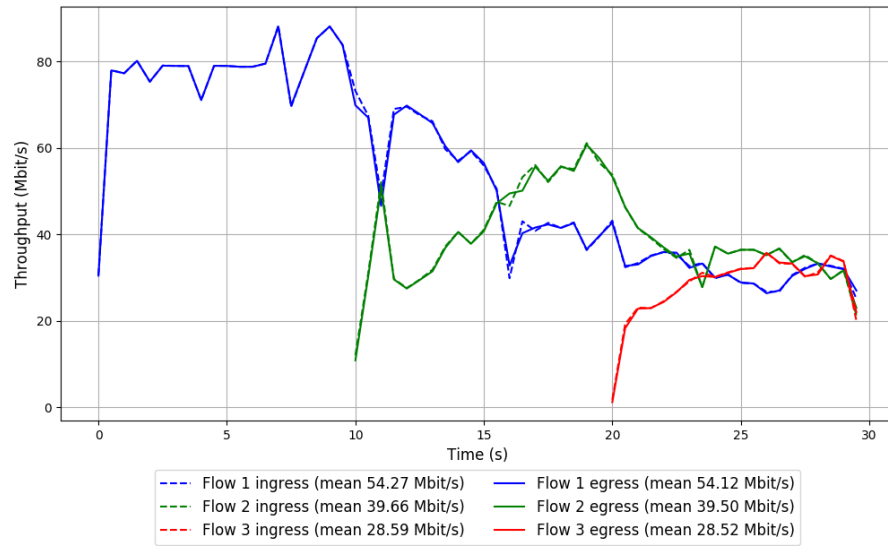


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 23:08:37  
End at: 2018-04-24 23:09:07  
Local clock offset: -4.812 ms  
Remote clock offset: -6.701 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.68 Mbit/s  
95th percentile per-packet one-way delay: 30.775 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 54.12 Mbit/s  
95th percentile per-packet one-way delay: 29.614 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 39.50 Mbit/s  
95th percentile per-packet one-way delay: 31.314 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 28.52 Mbit/s  
95th percentile per-packet one-way delay: 29.794 ms  
Loss rate: 0.20%

# Run 10: Report of QUIC Cubic — Data Link

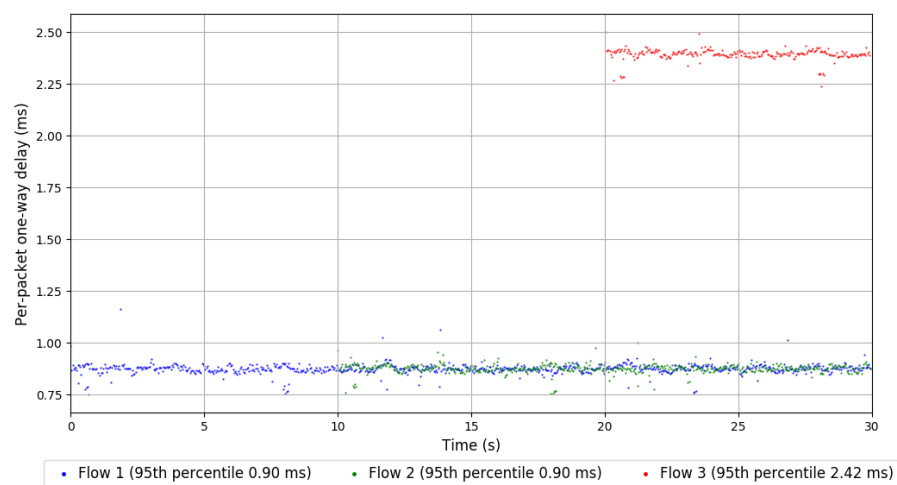
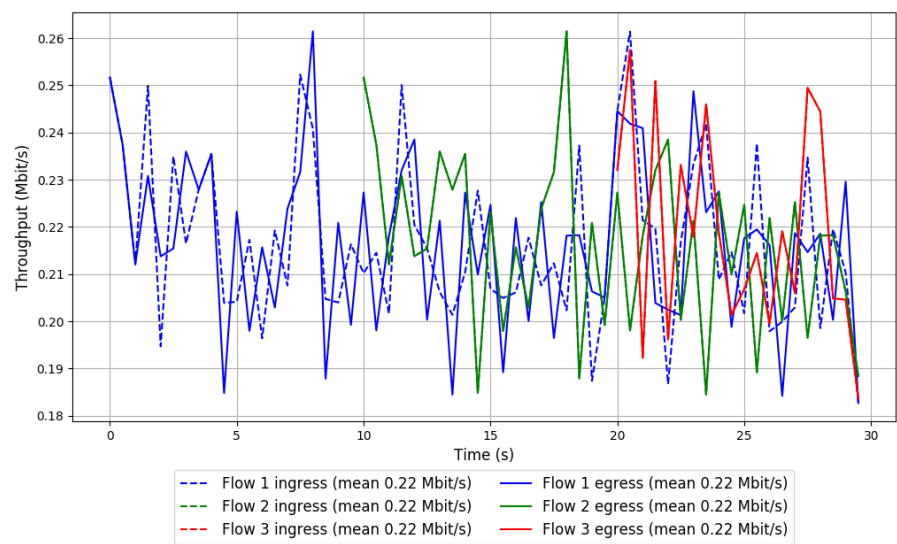


Run 1: Statistics of SReAM

Start at: 2018-04-24 20:19:16  
End at: 2018-04-24 20:19:46  
Local clock offset: -5.051 ms  
Remote clock offset: -7.584 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.406 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.902 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.903 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.423 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

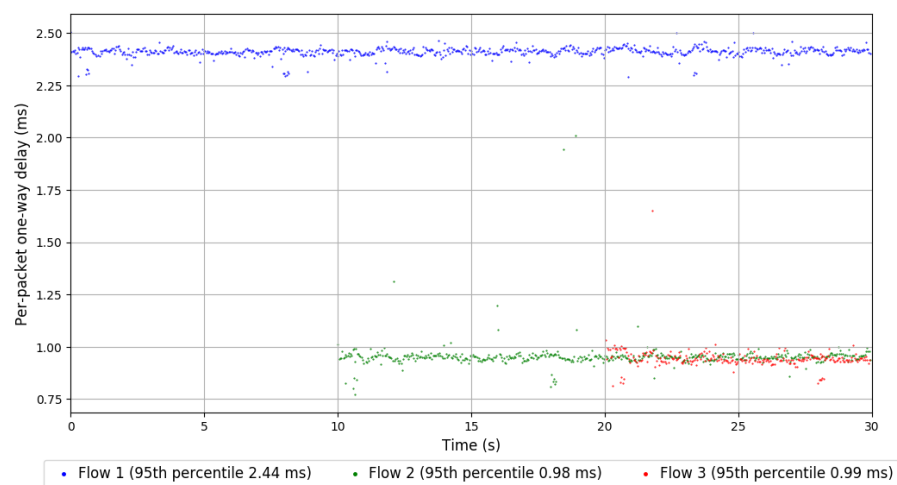
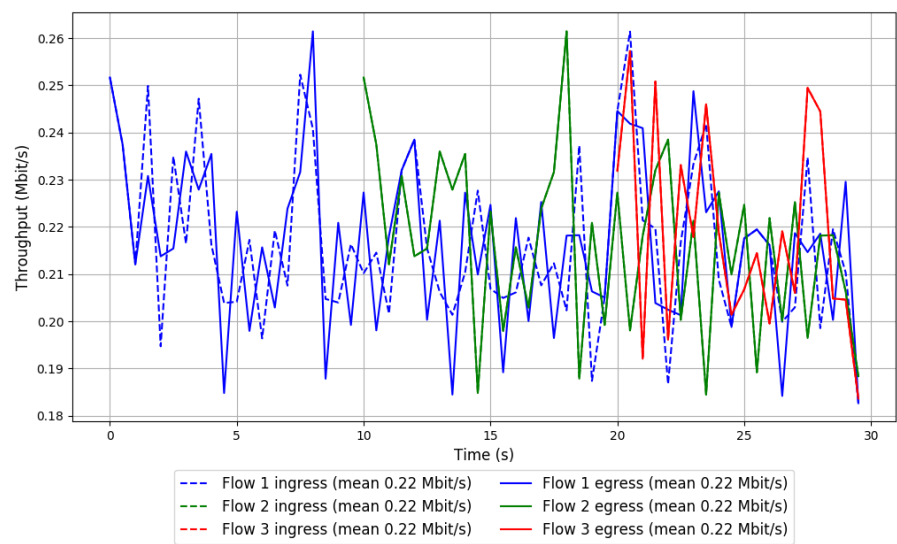


Run 2: Statistics of SReAM

Start at: 2018-04-24 20:38:29  
End at: 2018-04-24 20:38:59  
Local clock offset: -5.029 ms  
Remote clock offset: -8.032 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.430 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.435 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.984 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.994 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



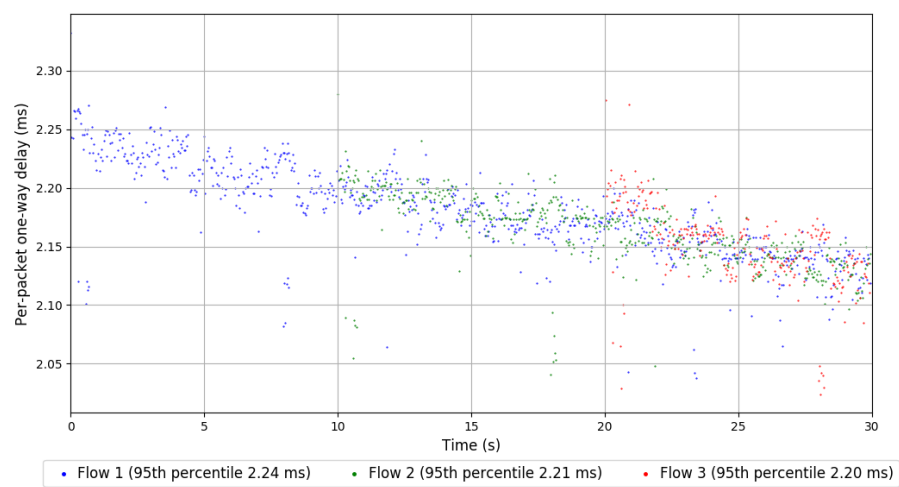
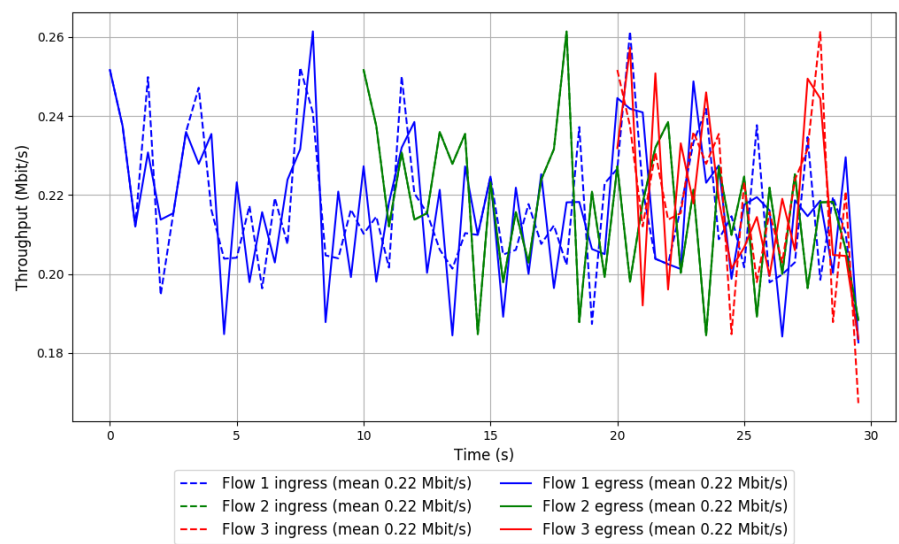


Run 3: Statistics of SReAM

Start at: 2018-04-24 20:57:41  
End at: 2018-04-24 20:58:11  
Local clock offset: -4.984 ms  
Remote clock offset: -7.108 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.231 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.242 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.206 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.201 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

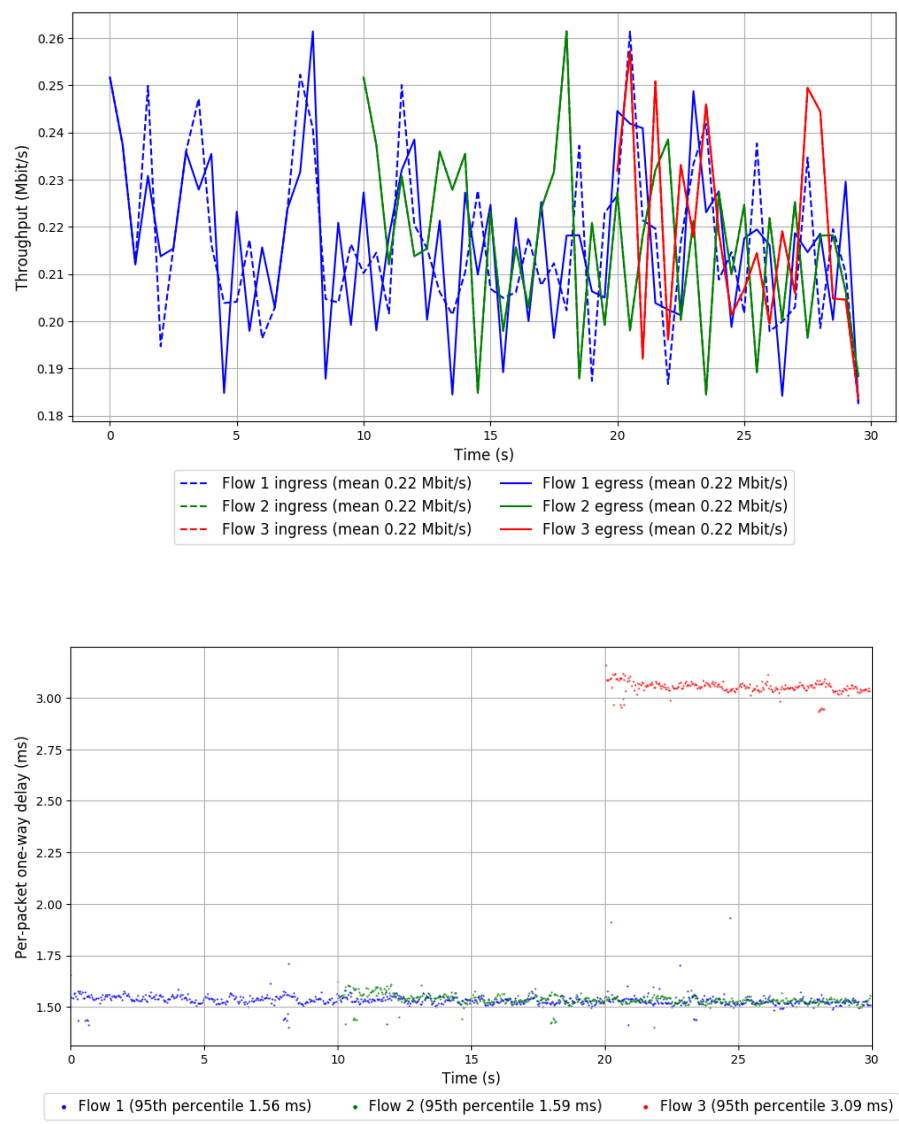


Run 4: Statistics of SReAM

Start at: 2018-04-24 21:16:53  
End at: 2018-04-24 21:17:23  
Local clock offset: -5.665 ms  
Remote clock offset: -5.222 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 3.064 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.565 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.586 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.093 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

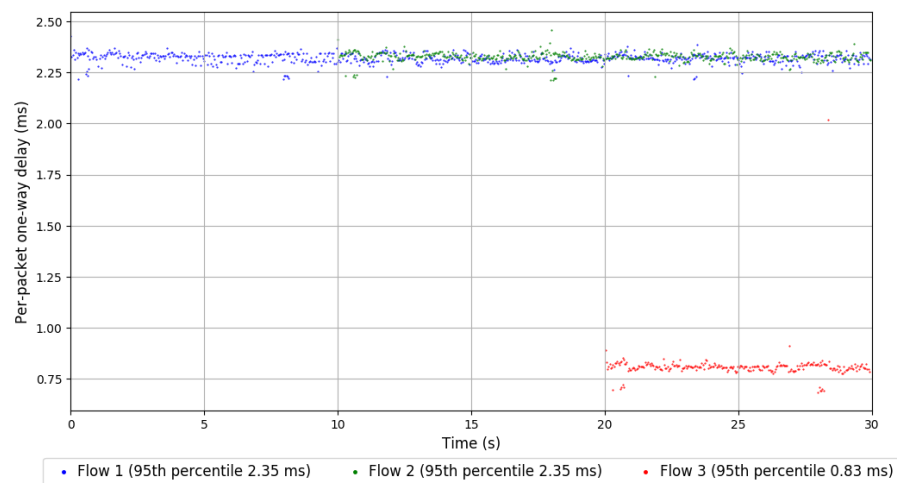
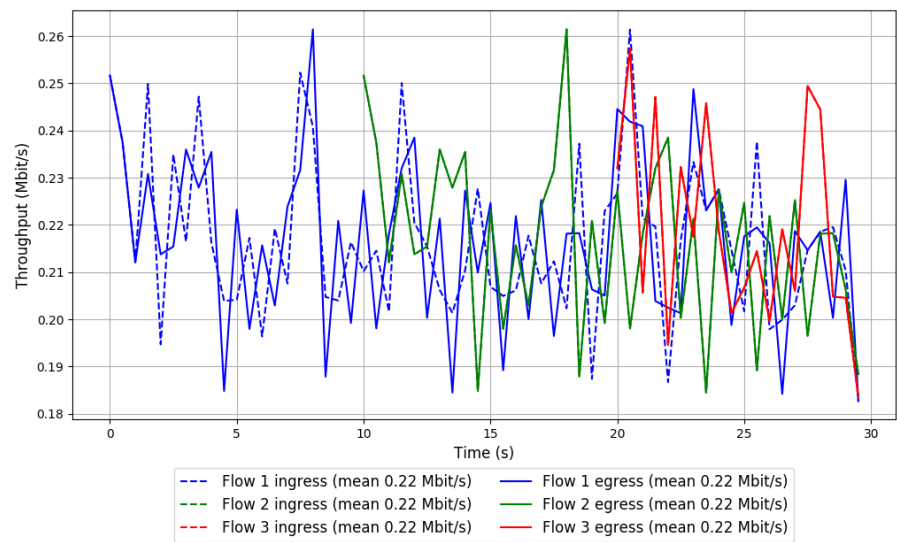


Run 5: Statistics of SReAM

Start at: 2018-04-24 21:36:05  
End at: 2018-04-24 21:36:35  
Local clock offset: -4.838 ms  
Remote clock offset: -4.776 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.353 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.353 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.355 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.835 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

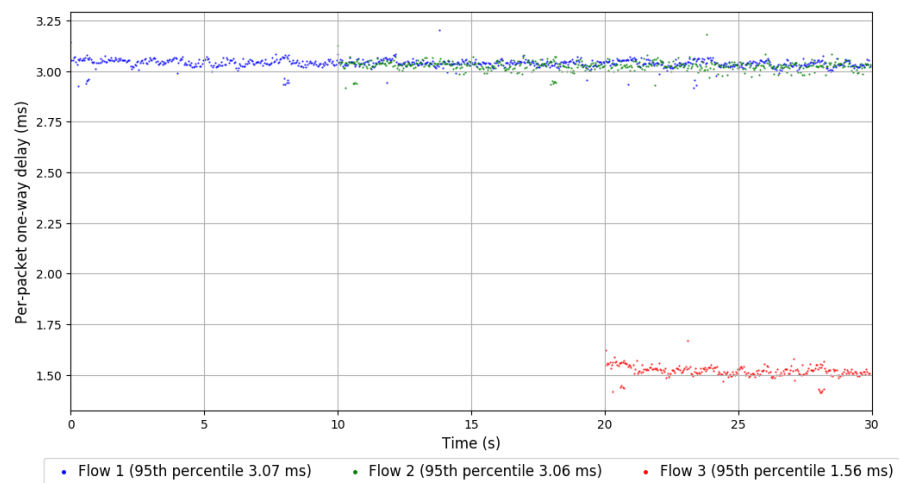
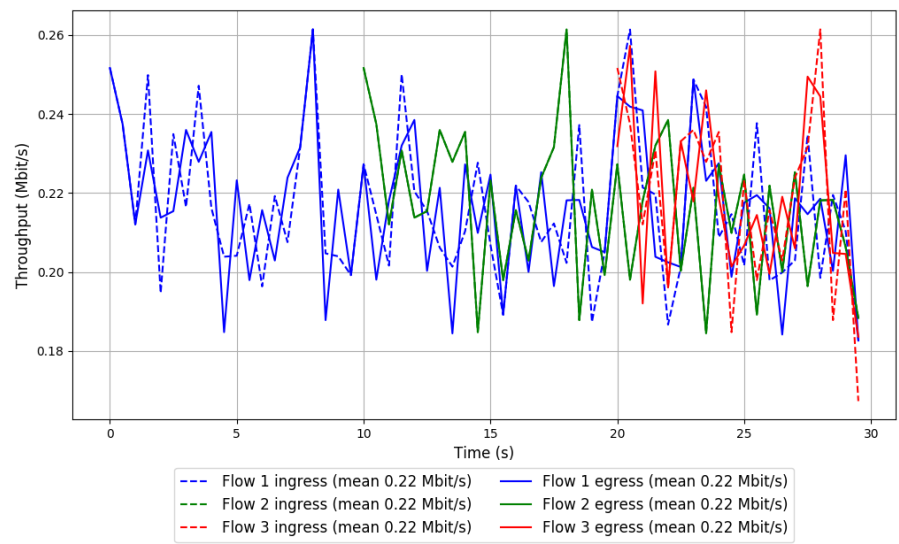


Run 6: Statistics of SReAM

Start at: 2018-04-24 21:55:14  
End at: 2018-04-24 21:55:44  
Local clock offset: -5.899 ms  
Remote clock offset: -4.504 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 3.063 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.066 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.060 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.560 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



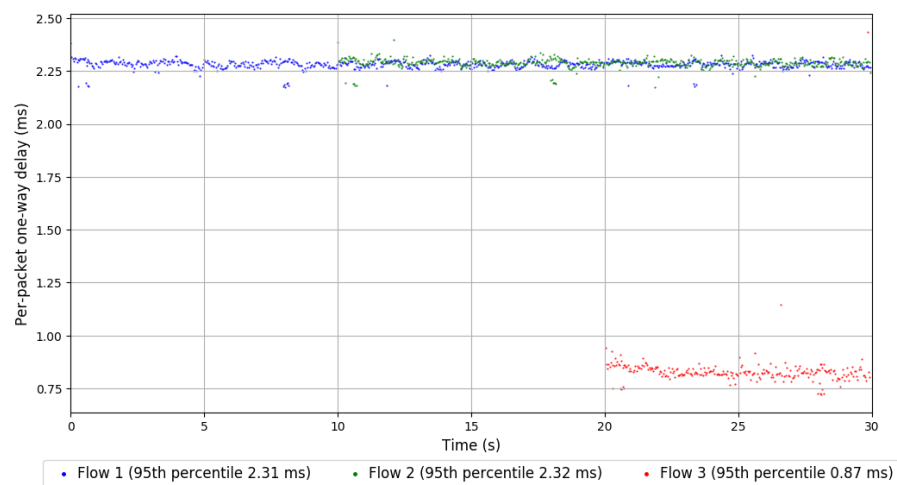
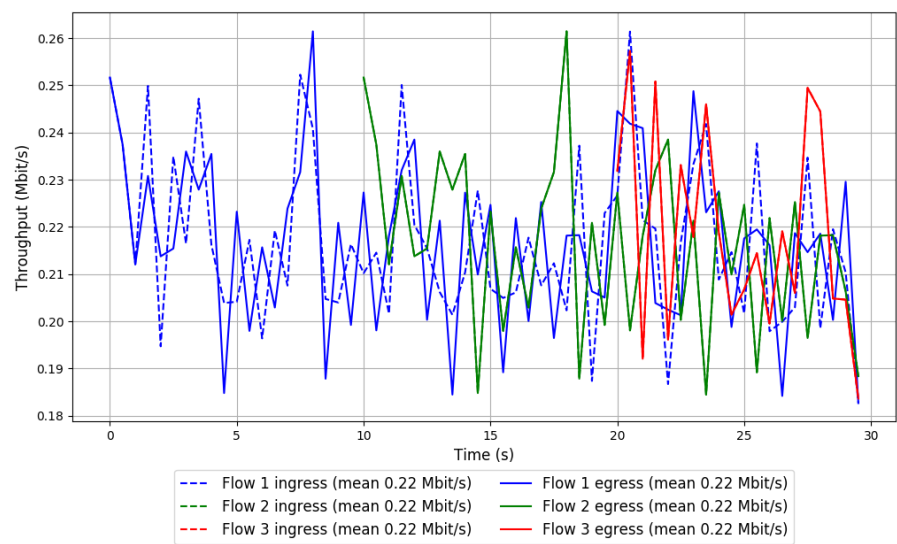


Run 7: Statistics of SReAM

Start at: 2018-04-24 22:14:25  
End at: 2018-04-24 22:14:55  
Local clock offset: -5.265 ms  
Remote clock offset: -4.167 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 2.309 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.306 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.317 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.874 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

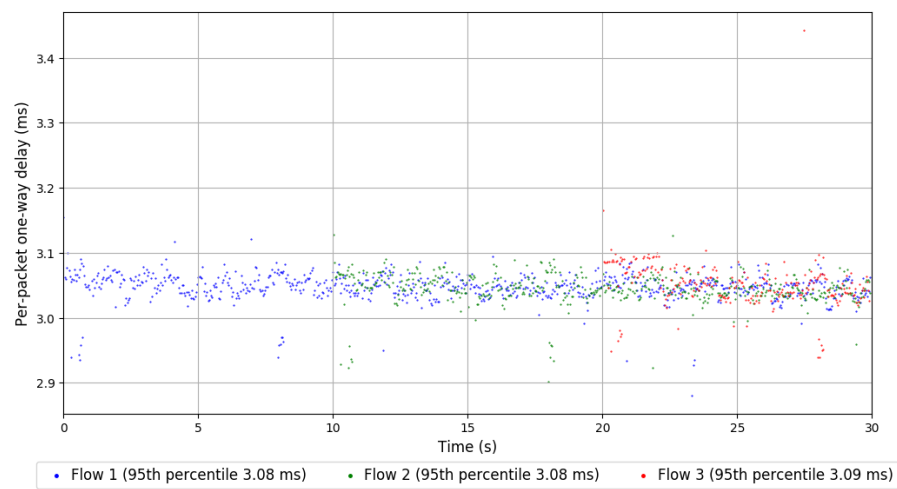
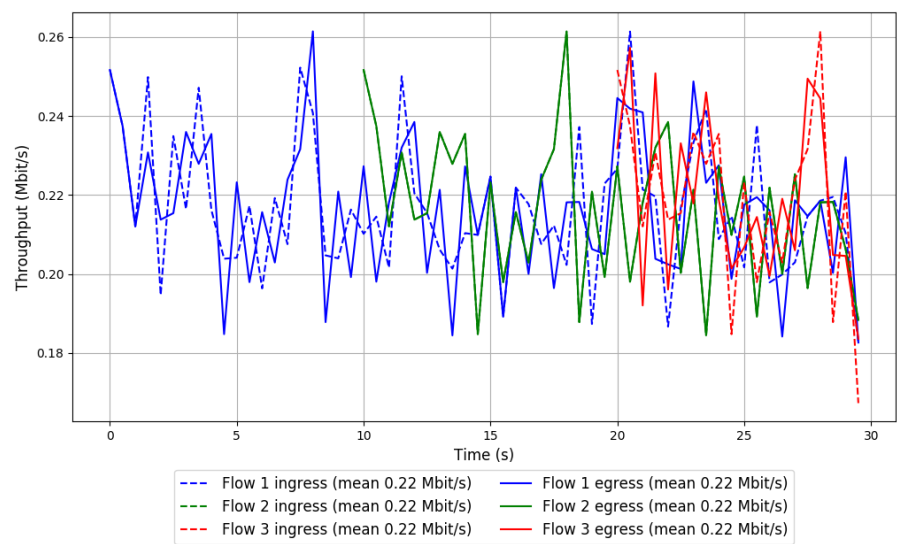


Run 8: Statistics of SReAM

Start at: 2018-04-24 22:33:37  
End at: 2018-04-24 22:34:07  
Local clock offset: -6.032 ms  
Remote clock offset: -3.769 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 3.081 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.076 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.077 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 3.093 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

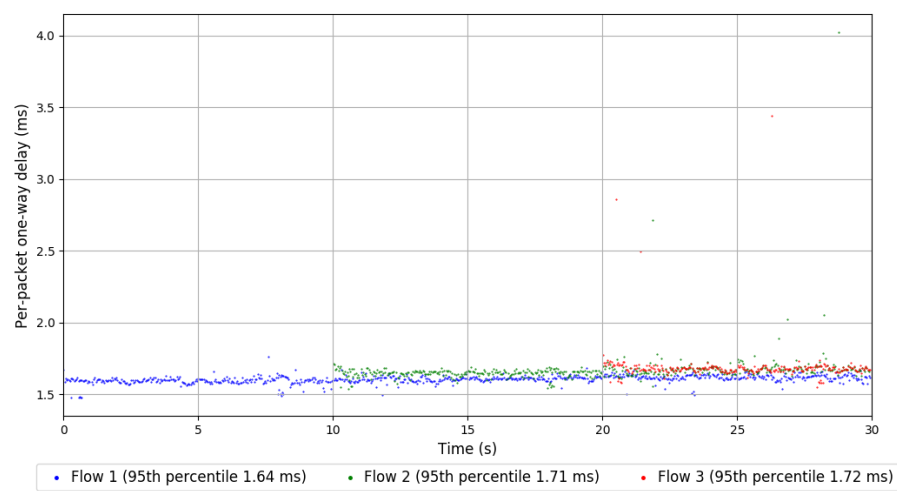
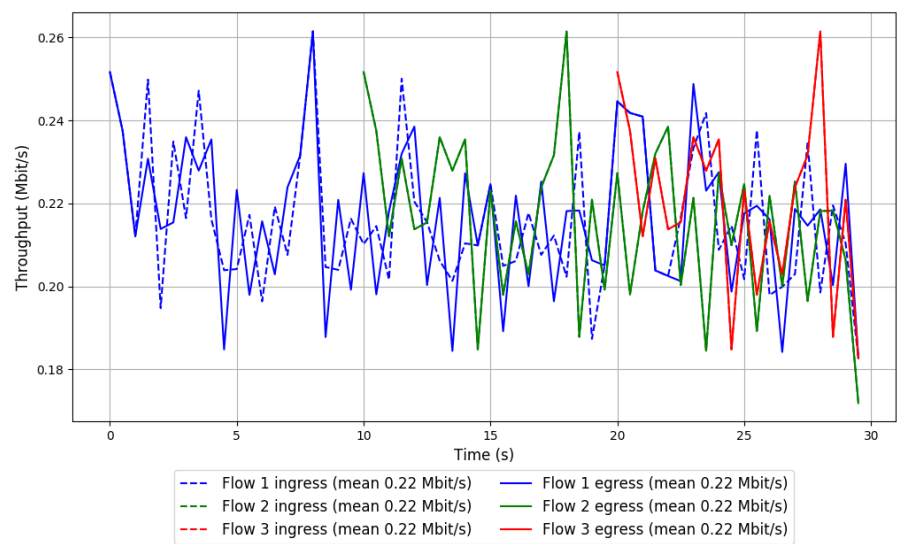


Run 9: Statistics of SReAM

Start at: 2018-04-24 22:52:49  
End at: 2018-04-24 22:53:19  
Local clock offset: -5.881 ms  
Remote clock offset: -6.168 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.700 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.642 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.712 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.718 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

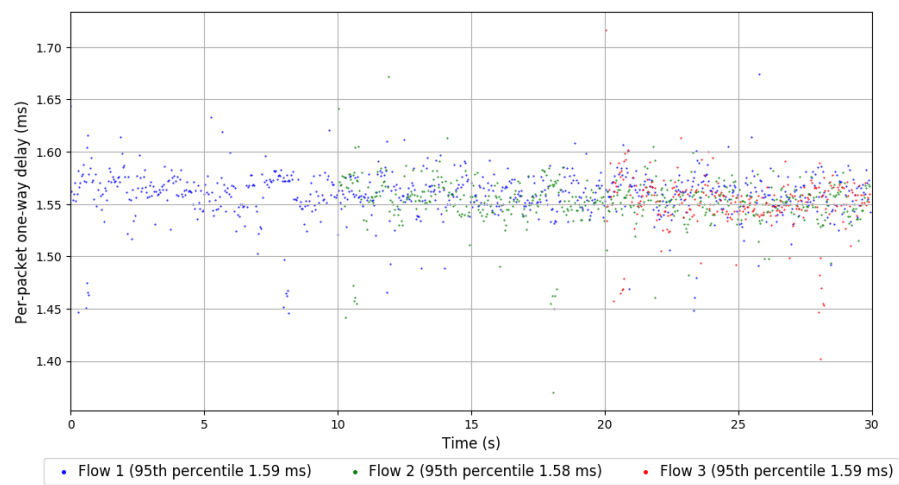
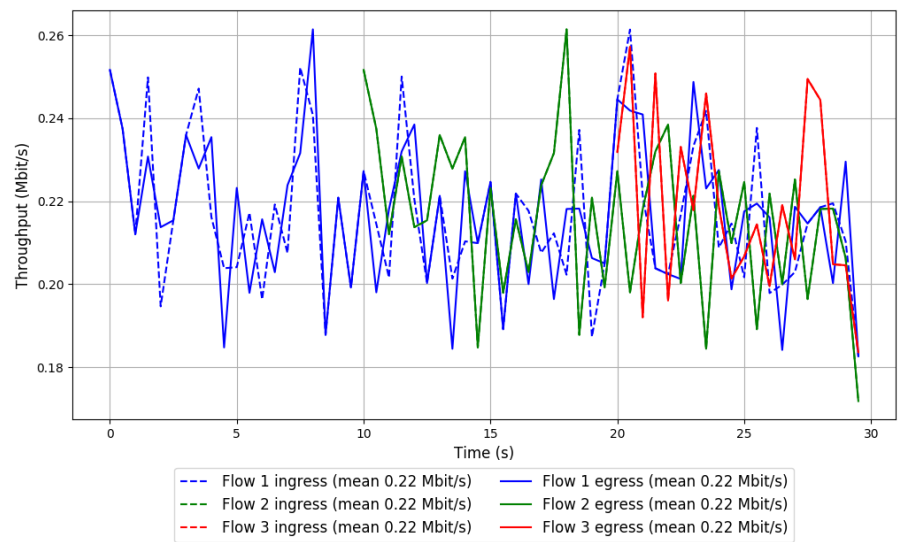


Run 10: Statistics of SReAM

Start at: 2018-04-24 23:12:00  
End at: 2018-04-24 23:12:30  
Local clock offset: -4.068 ms  
Remote clock offset: -6.702 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.584 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.587 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.581 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.589 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link





Run 1: Statistics of WebRTC media

Start at: 2018-04-24 20:25:59

End at: 2018-04-24 20:26:29

Local clock offset: -5.104 ms

Remote clock offset: -7.75 ms

# Below is generated by plot.py at 2018-04-24 23:57:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 4.741 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 4.595 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.11 Mbit/s

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

Loss rate: 0.00%

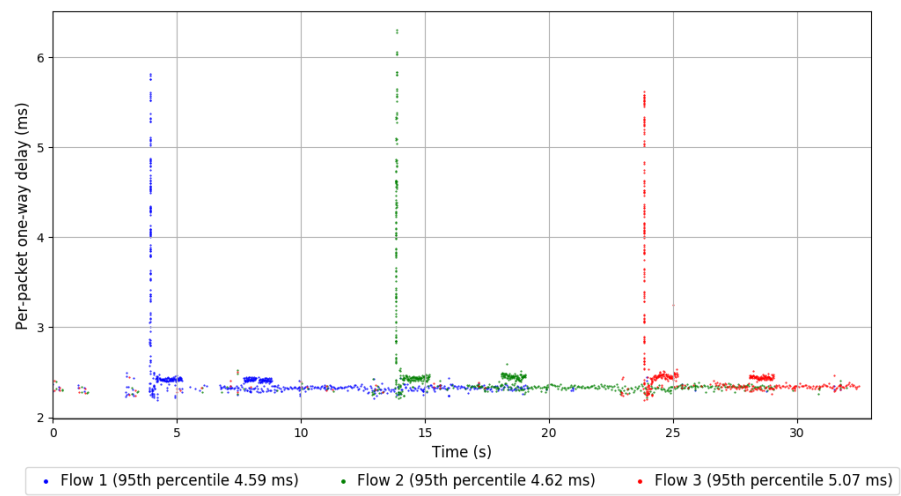
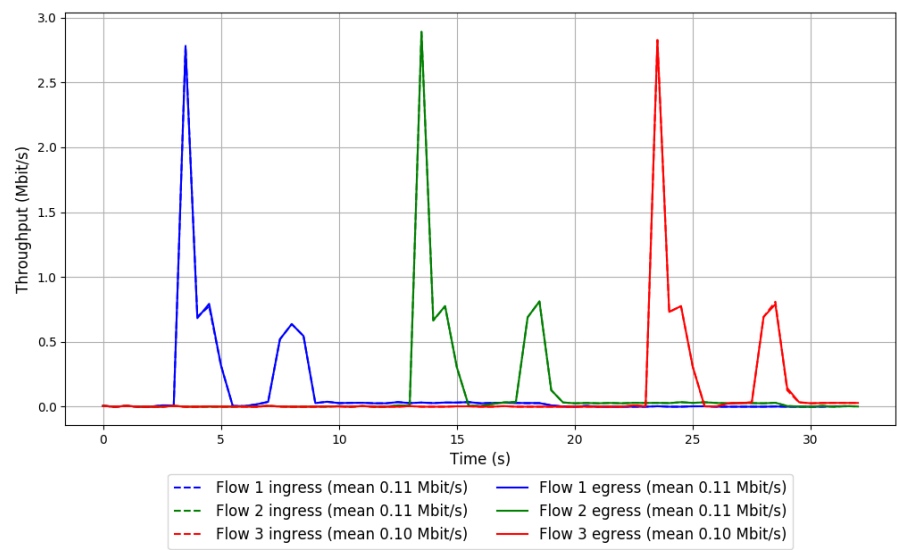
-- Flow 3:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 5.072 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

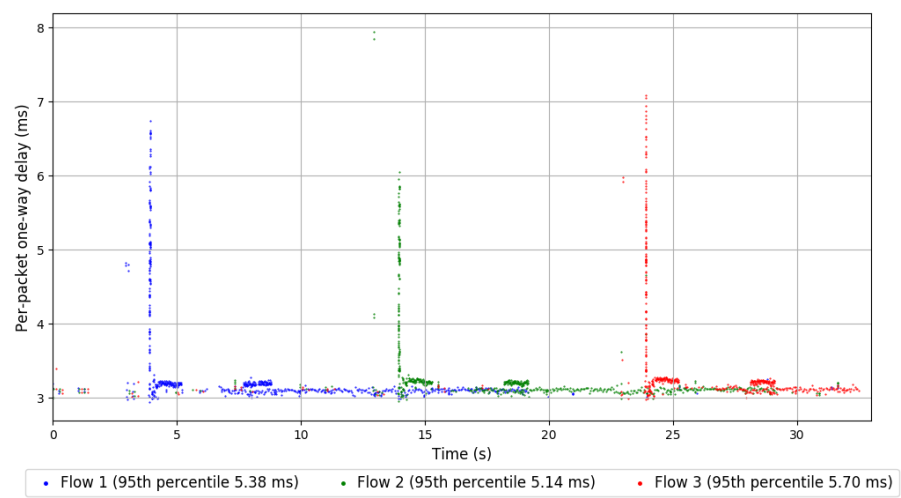
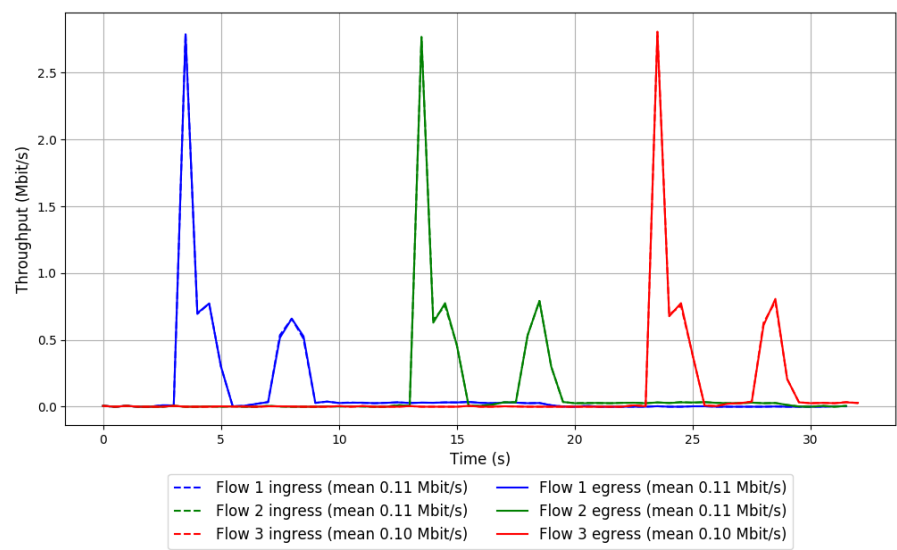


Run 2: Statistics of WebRTC media

Start at: 2018-04-24 20:45:11  
End at: 2018-04-24 20:45:41  
Local clock offset: -5.747 ms  
Remote clock offset: -8.139 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 5.398 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 5.385 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 5.142 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 5.700 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

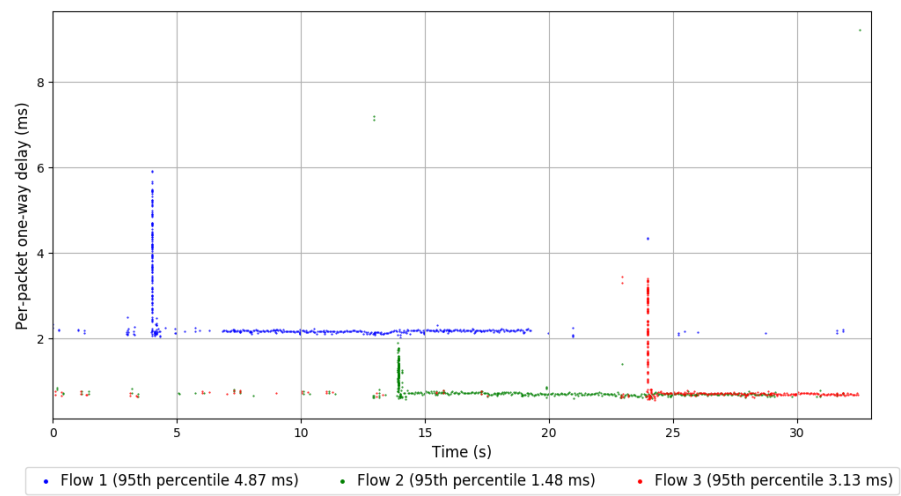
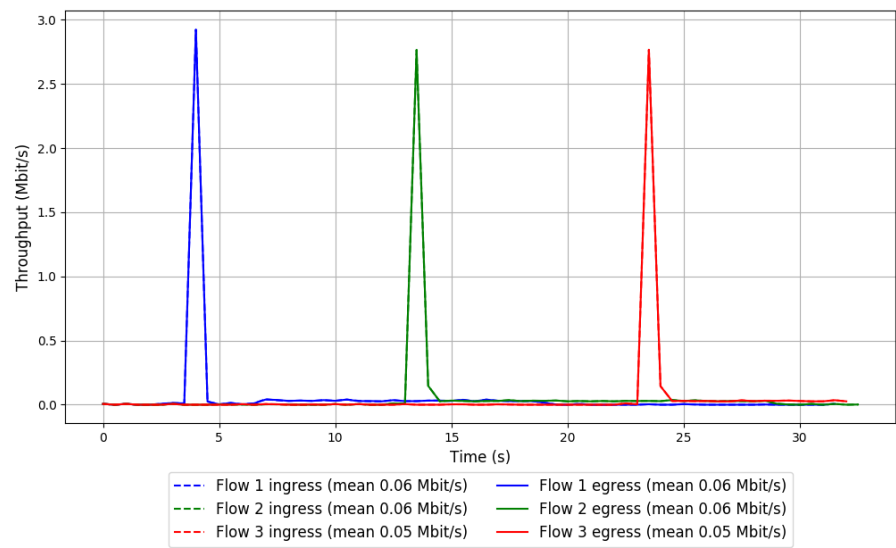


Run 3: Statistics of WebRTC media

Start at: 2018-04-24 21:04:24  
End at: 2018-04-24 21:04:54  
Local clock offset: -5.016 ms  
Remote clock offset: -6.094 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 3.901 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 4.872 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 1.483 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.133 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

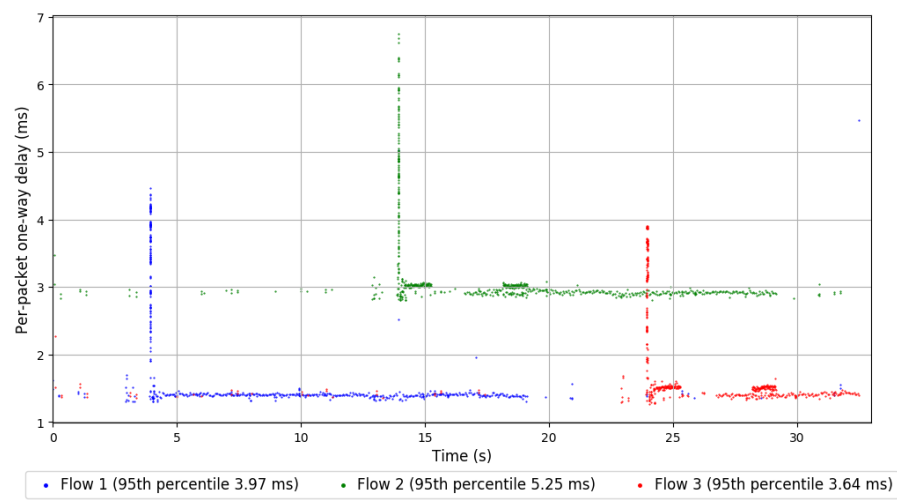
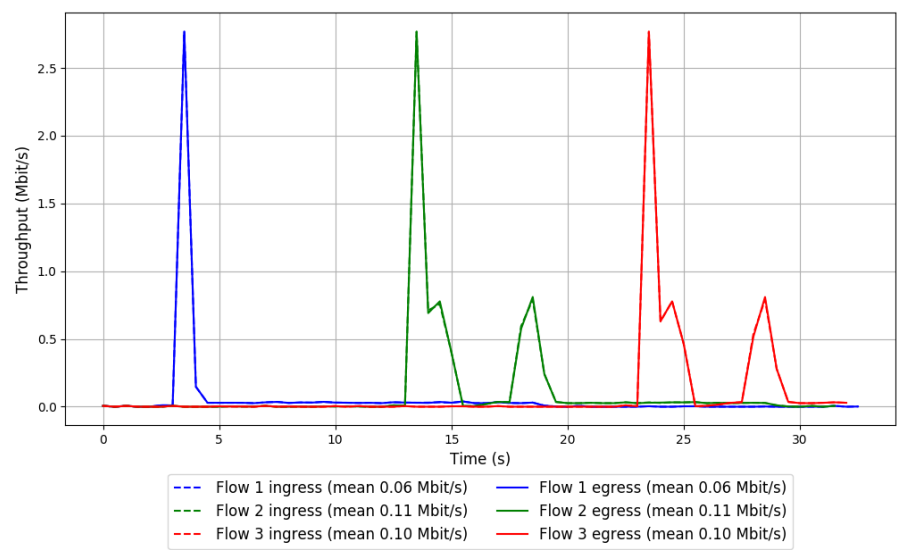


Run 4: Statistics of WebRTC media

Start at: 2018-04-24 21:23:36  
End at: 2018-04-24 21:24:06  
Local clock offset: -5.552 ms  
Remote clock offset: -4.931 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.27 Mbit/s  
95th percentile per-packet one-way delay: 4.255 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.968 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 5.253 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 3.640 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



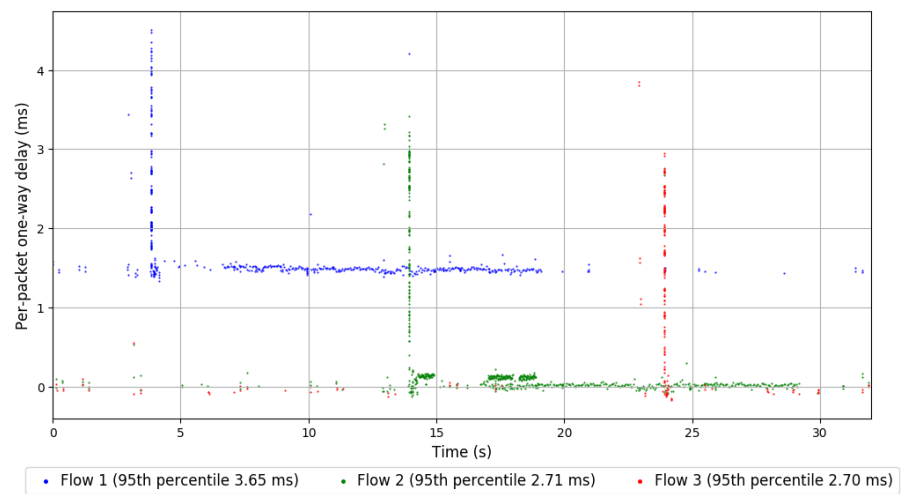
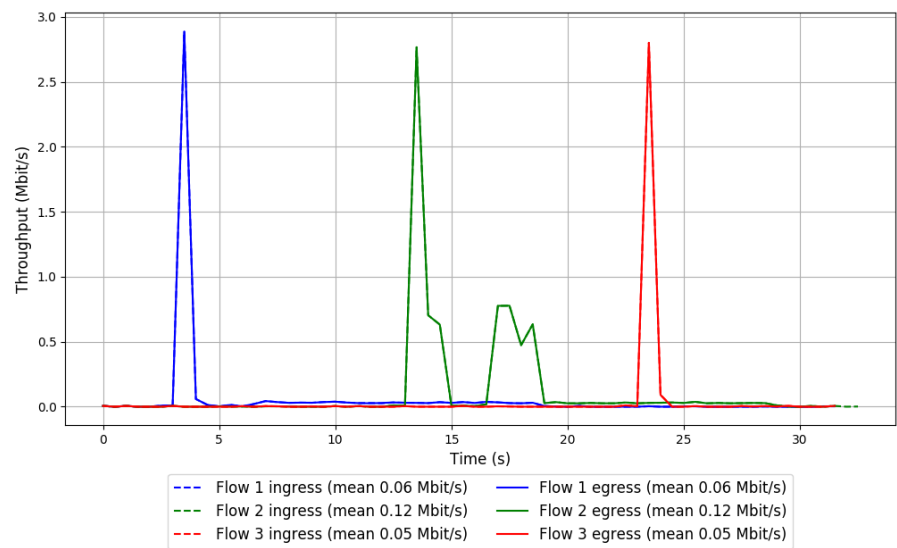


Run 5: Statistics of WebRTC media

Start at: 2018-04-24 21:42:46  
End at: 2018-04-24 21:43:16  
Local clock offset: -4.238 ms  
Remote clock offset: -4.715 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 2.903 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.648 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 2.713 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 2.704 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

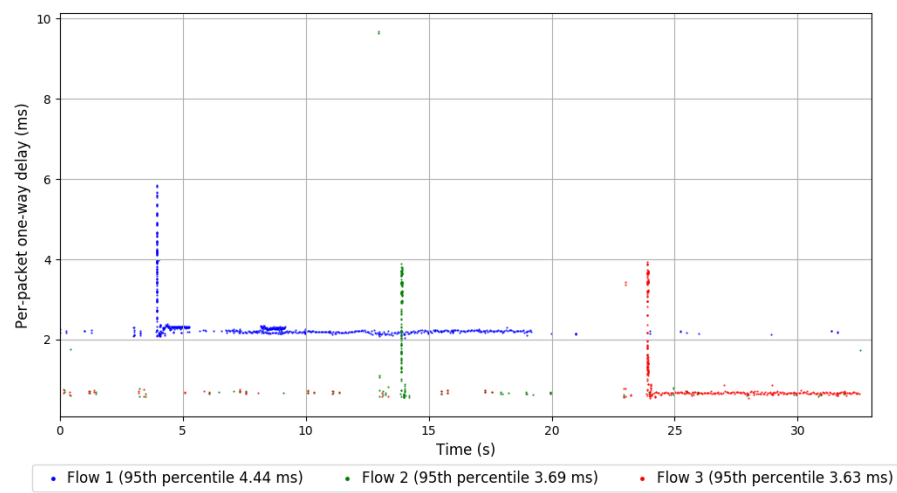
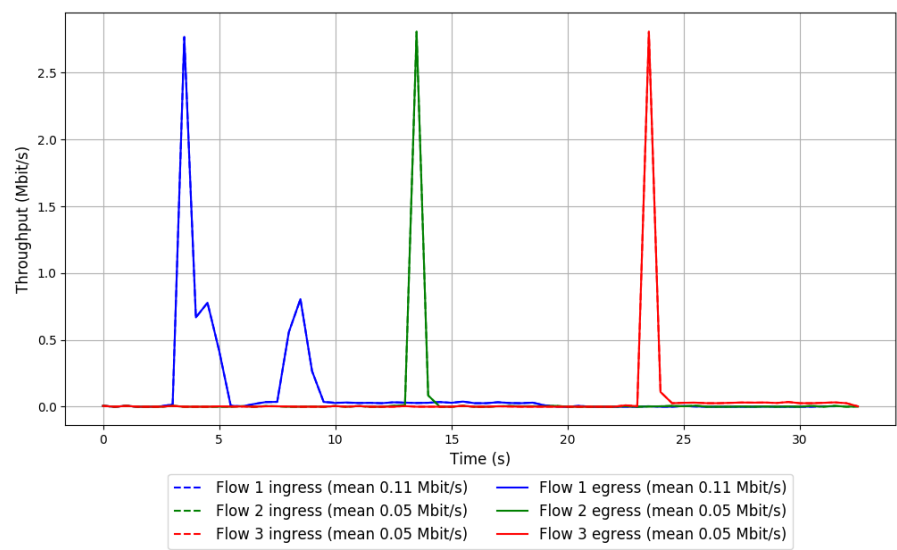


Run 6: Statistics of WebRTC media

Start at: 2018-04-24 22:01:56  
End at: 2018-04-24 22:02:26  
Local clock offset: -5.22 ms  
Remote clock offset: -4.445 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 3.925 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 4.443 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.693 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.635 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

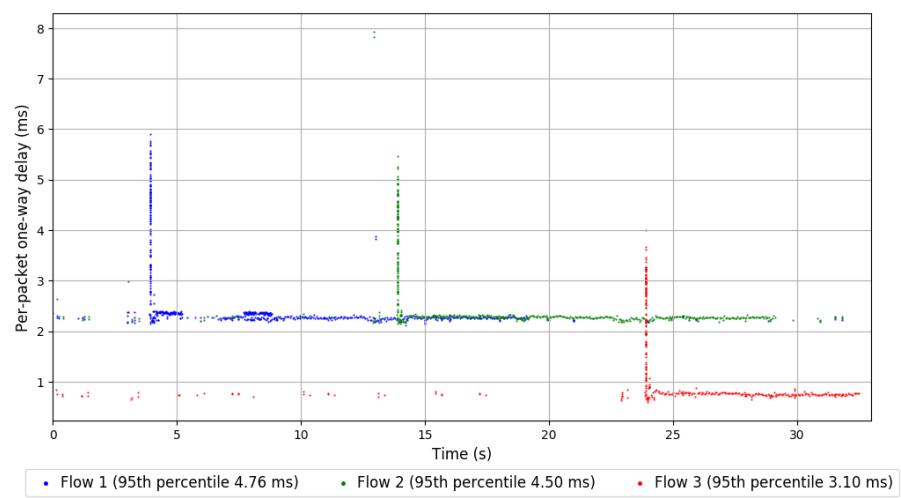
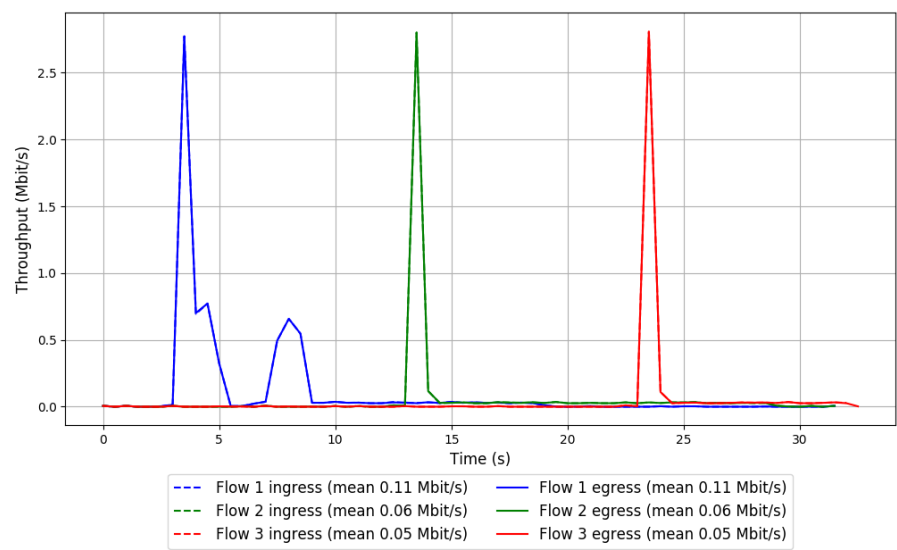


Run 7: Statistics of WebRTC media

Start at: 2018-04-24 22:21:08  
End at: 2018-04-24 22:21:38  
Local clock offset: -5.346 ms  
Remote clock offset: -4.075 ms

```
# Below is generated by plot.py at 2018-04-24 23:57:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 4.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.765 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 4.498 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 3.103 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

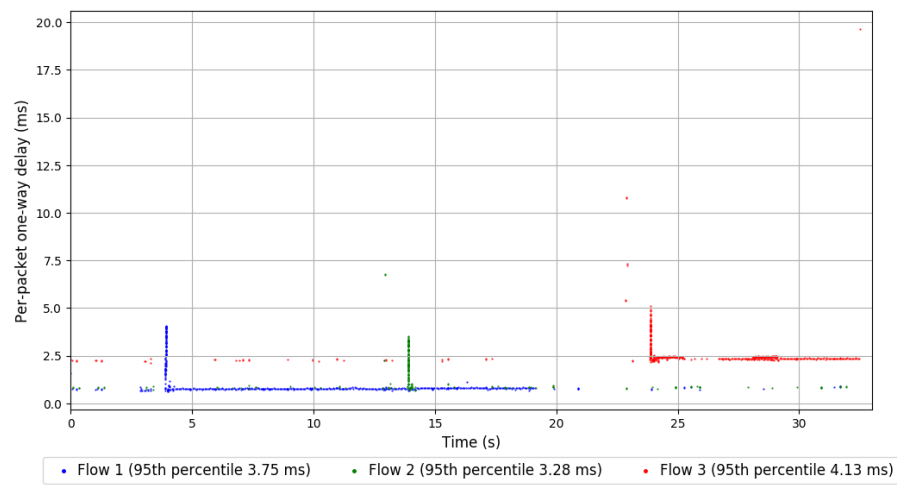
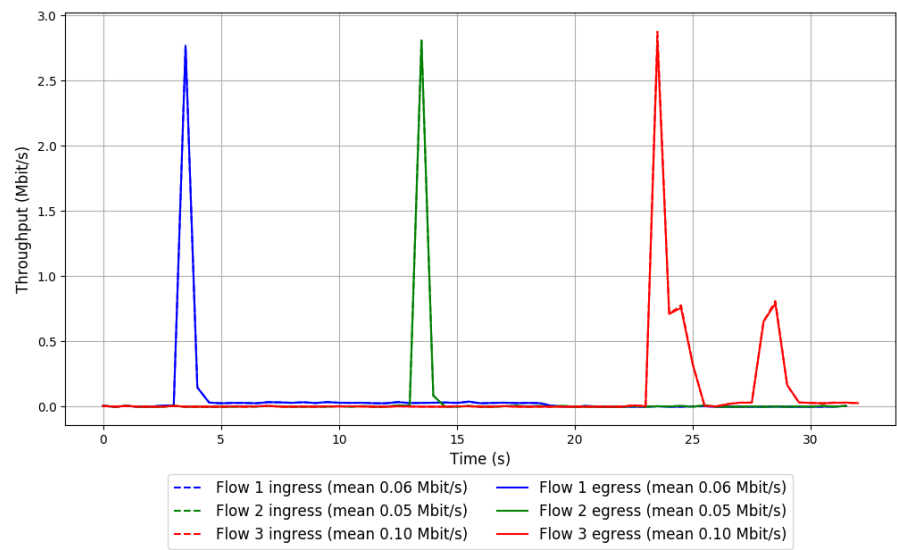


Run 8: Statistics of WebRTC media

Start at: 2018-04-24 22:40:20  
End at: 2018-04-24 22:40:50  
Local clock offset: -5.387 ms  
Remote clock offset: -4.932 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 3.911 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.752 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.282 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 4.128 ms  
Loss rate: 1.61%

Run 8: Report of WebRTC media — Data Link



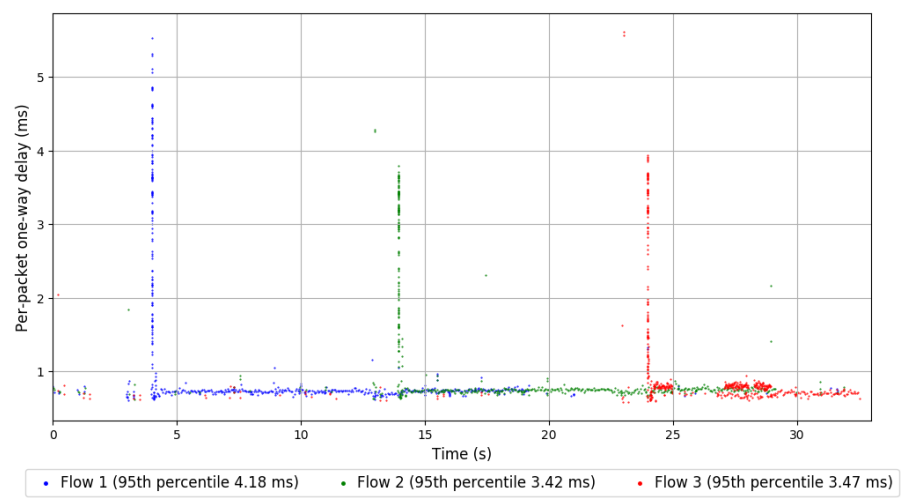
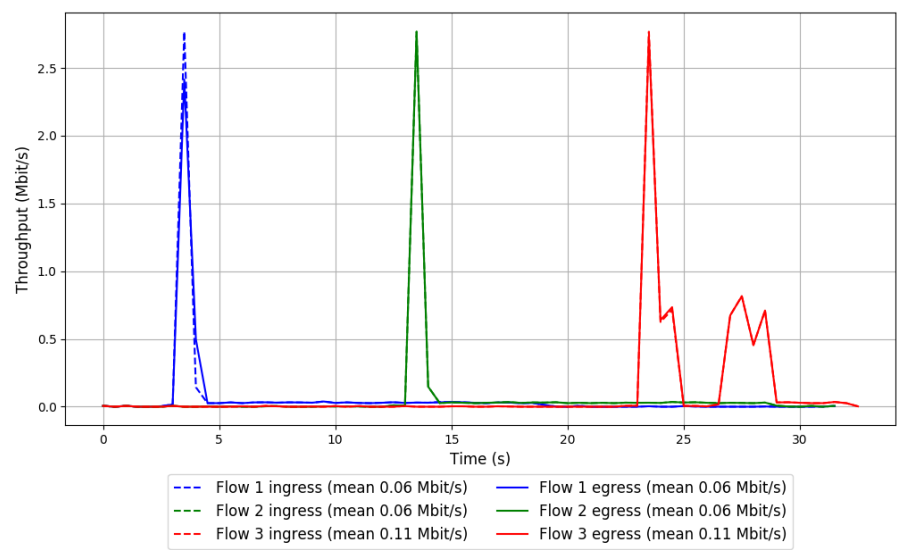


Run 9: Statistics of WebRTC media

Start at: 2018-04-24 22:59:30  
End at: 2018-04-24 23:00:00  
Local clock offset: -4.914 ms  
Remote clock offset: -6.482 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 3.623 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 4.183 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.425 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 3.474 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

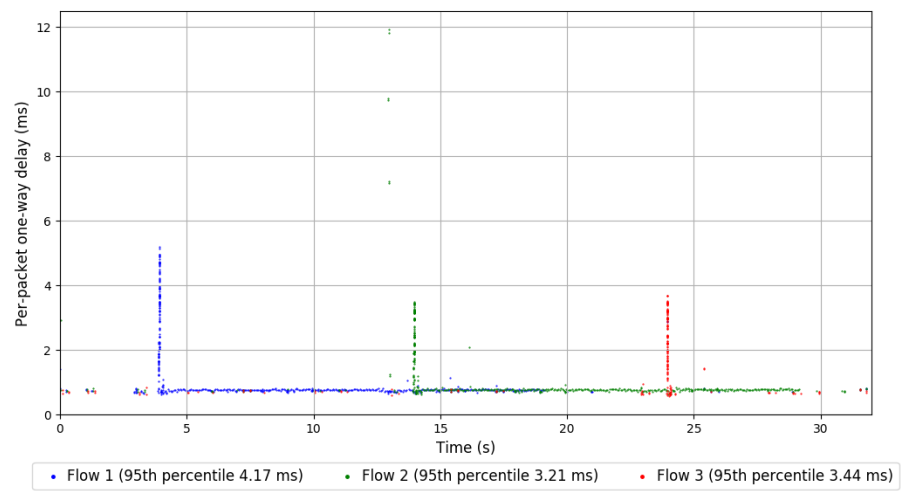
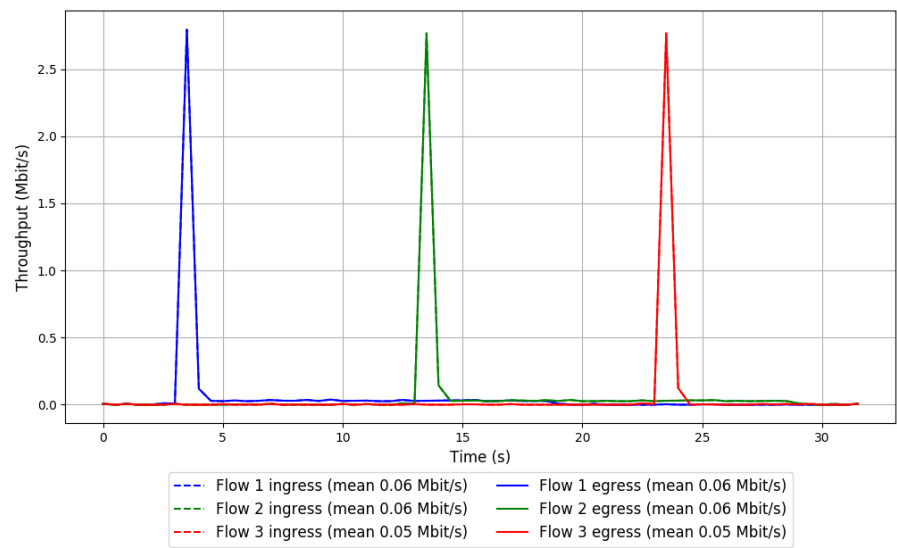


Run 10: Statistics of WebRTC media

Start at: 2018-04-24 23:18:43  
End at: 2018-04-24 23:19:13  
Local clock offset: -4.795 ms  
Remote clock offset: -6.719 ms

# Below is generated by plot.py at 2018-04-24 23:57:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 3.491 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 4.165 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.211 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 3.445 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

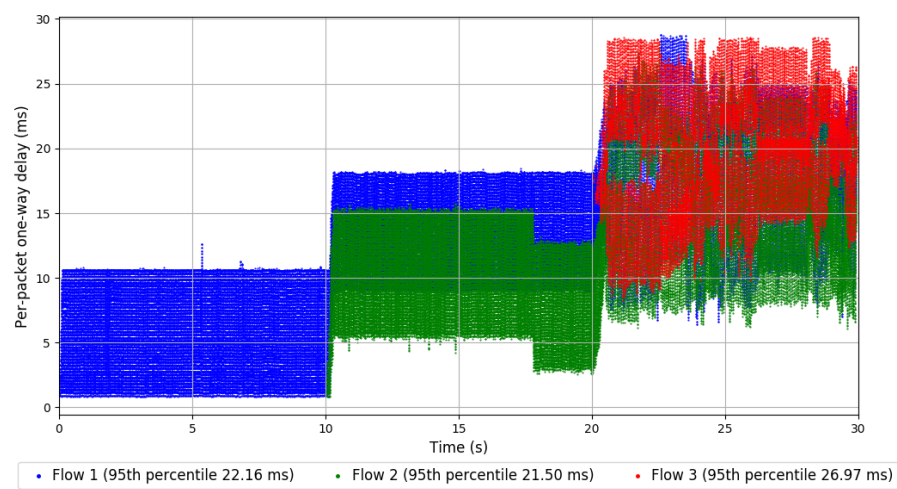
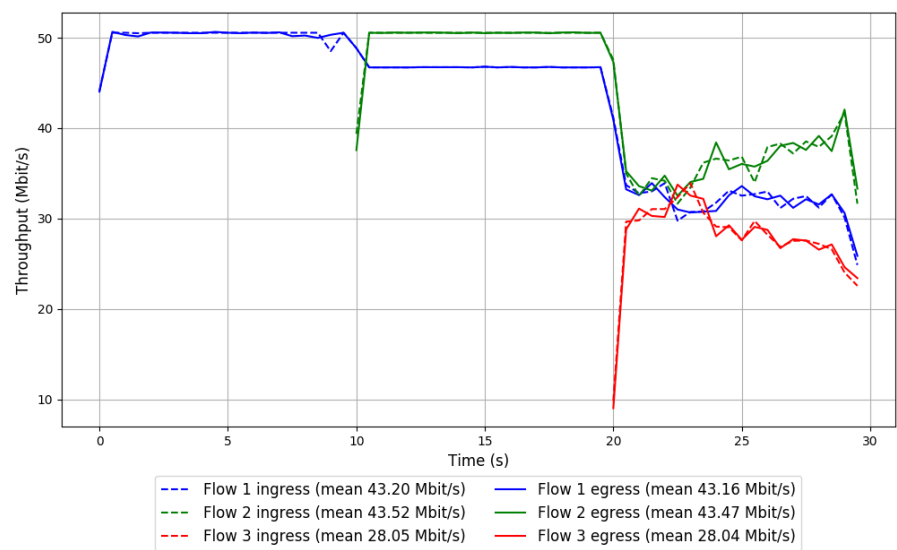


Run 1: Statistics of Sprout

Start at: 2018-04-24 20:24:52  
End at: 2018-04-24 20:25:22  
Local clock offset: -5.041 ms  
Remote clock offset: -7.739 ms

# Below is generated by plot.py at 2018-04-24 23:57:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.34 Mbit/s  
95th percentile per-packet one-way delay: 23.471 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.16 Mbit/s  
95th percentile per-packet one-way delay: 22.159 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 43.47 Mbit/s  
95th percentile per-packet one-way delay: 21.503 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.04 Mbit/s  
95th percentile per-packet one-way delay: 26.974 ms  
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

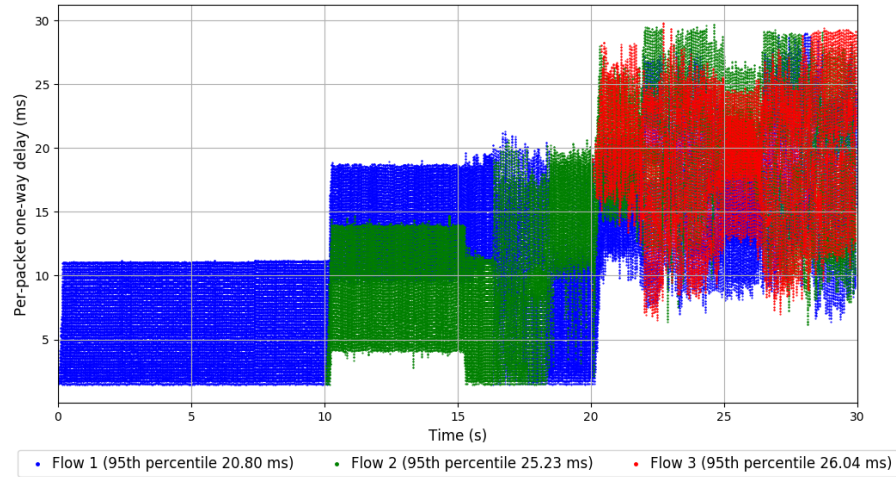
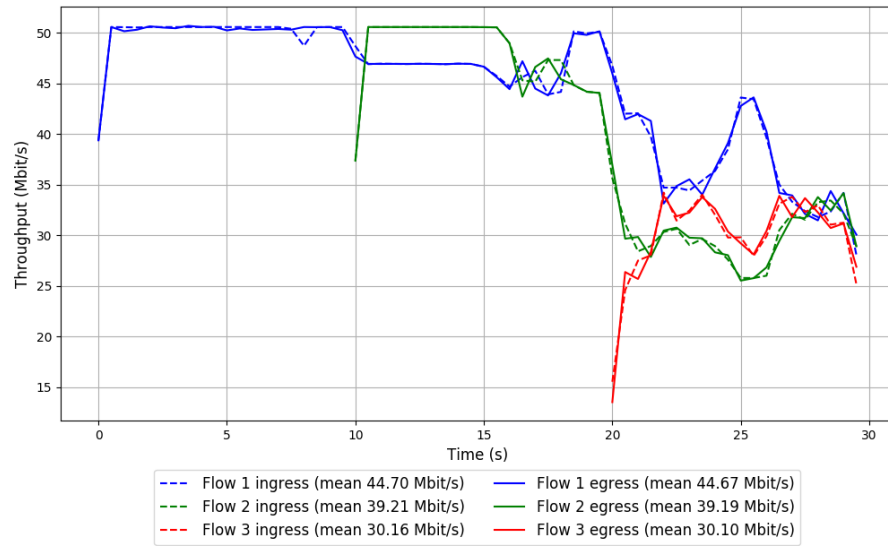


Run 2: Statistics of Sprout

Start at: 2018-04-24 20:44:05  
End at: 2018-04-24 20:44:35  
Local clock offset: -5.674 ms  
Remote clock offset: -8.212 ms

# Below is generated by plot.py at 2018-04-24 23:57:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.67 Mbit/s  
95th percentile per-packet one-way delay: 24.196 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.67 Mbit/s  
95th percentile per-packet one-way delay: 20.797 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.19 Mbit/s  
95th percentile per-packet one-way delay: 25.232 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.10 Mbit/s  
95th percentile per-packet one-way delay: 26.040 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link



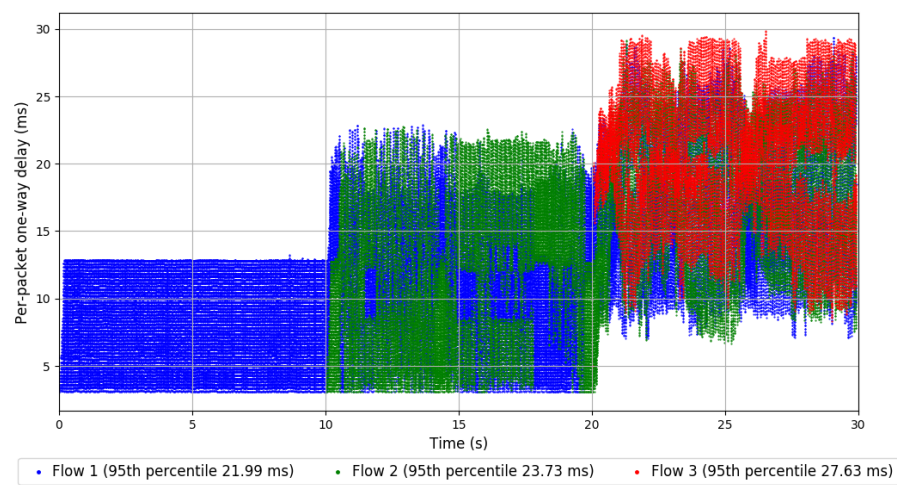
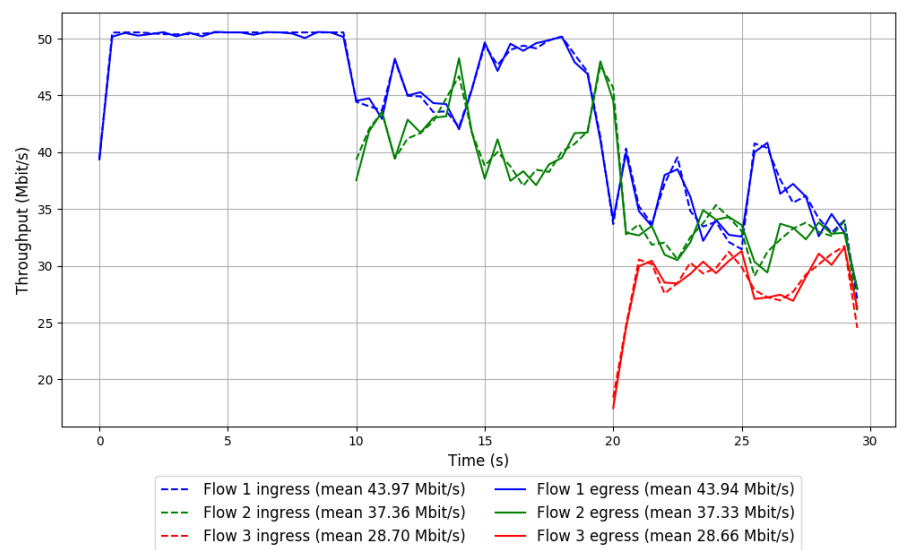


### Run 3: Statistics of Sprout

Start at: 2018-04-24 21:03:18  
End at: 2018-04-24 21:03:48  
Local clock offset: -5.831 ms  
Remote clock offset: -6.128 ms

```
# Below is generated by plot.py at 2018-04-24 23:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.23 Mbit/s
95th percentile per-packet one-way delay: 24.318 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 43.94 Mbit/s
95th percentile per-packet one-way delay: 21.990 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 37.33 Mbit/s
95th percentile per-packet one-way delay: 23.732 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 28.66 Mbit/s
95th percentile per-packet one-way delay: 27.627 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

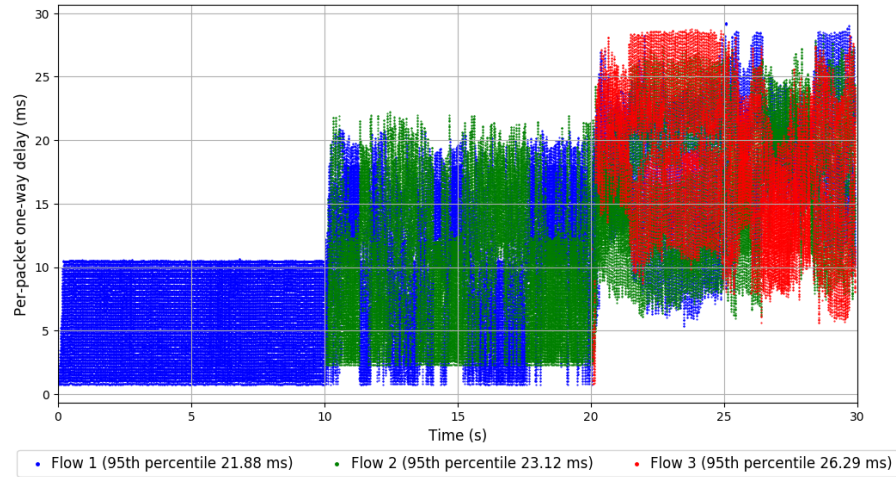
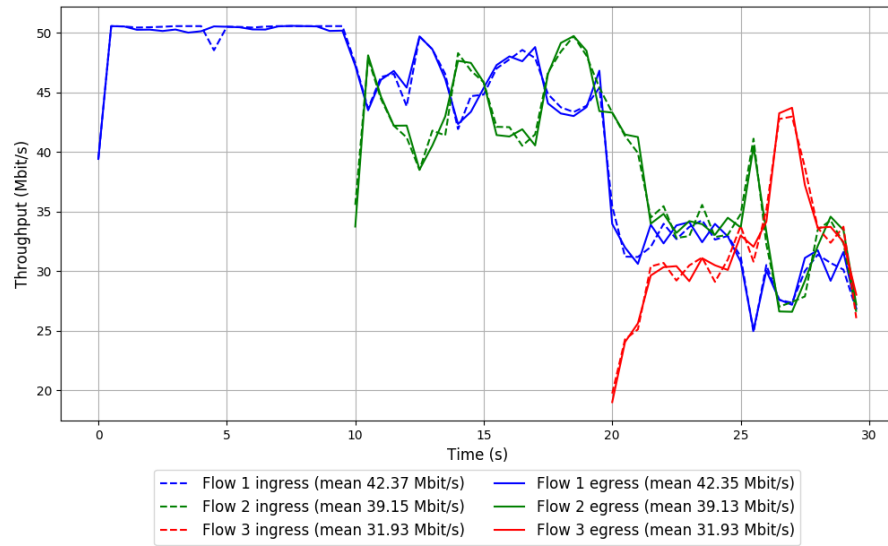


#### Run 4: Statistics of Sprout

Start at: 2018-04-24 21:22:30  
End at: 2018-04-24 21:23:00  
Local clock offset: -4.834 ms  
Remote clock offset: -4.914 ms

```
# Below is generated by plot.py at 2018-04-24 23:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.91 Mbit/s
95th percentile per-packet one-way delay: 23.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.35 Mbit/s
95th percentile per-packet one-way delay: 21.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.13 Mbit/s
95th percentile per-packet one-way delay: 23.120 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 26.292 ms
Loss rate: 0.00%
```

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

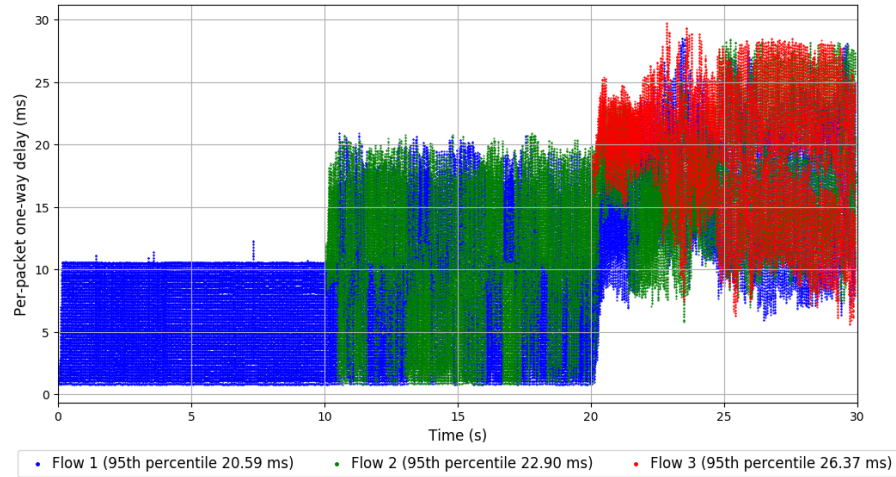
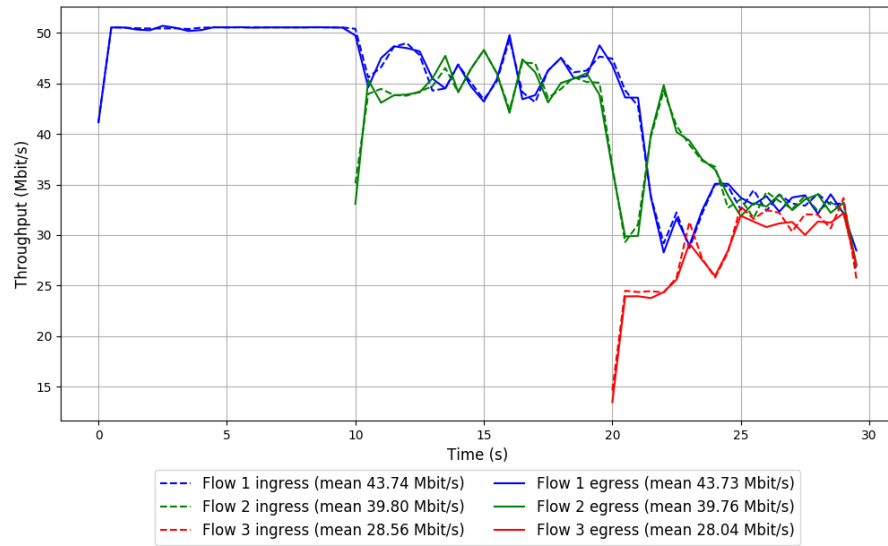


Run 5: Statistics of Sprout

Start at: 2018-04-24 21:41:40  
End at: 2018-04-24 21:42:10  
Local clock offset: -4.978 ms  
Remote clock offset: -4.705 ms

```
# Below is generated by plot.py at 2018-04-24 23:57:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 23.145 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 20.593 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.76 Mbit/s
95th percentile per-packet one-way delay: 22.904 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.04 Mbit/s
95th percentile per-packet one-way delay: 26.367 ms
Loss rate: 1.80%
```

## Run 5: Report of Sprout — Data Link

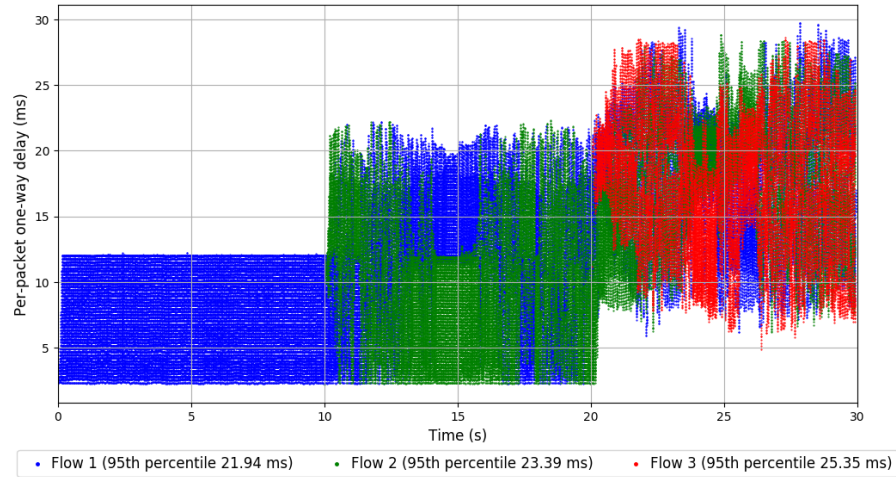
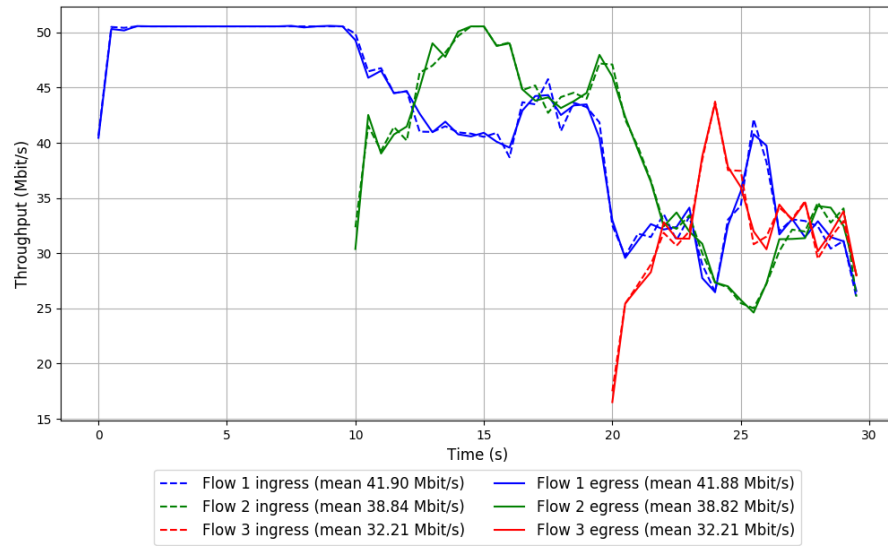


Run 6: Statistics of Sprout

Start at: 2018-04-24 22:00:50  
End at: 2018-04-24 22:01:20  
Local clock offset: -5.218 ms  
Remote clock offset: -4.396 ms

# Below is generated by plot.py at 2018-04-24 23:57:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.34 Mbit/s  
95th percentile per-packet one-way delay: 23.293 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 41.88 Mbit/s  
95th percentile per-packet one-way delay: 21.943 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 38.82 Mbit/s  
95th percentile per-packet one-way delay: 23.395 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 32.21 Mbit/s  
95th percentile per-packet one-way delay: 25.353 ms  
Loss rate: 0.00%

## Run 6: Report of Sprout — Data Link



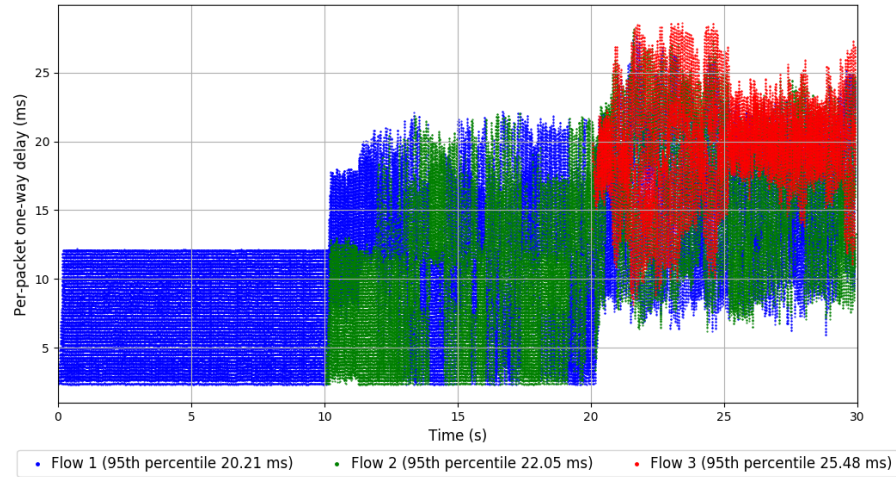
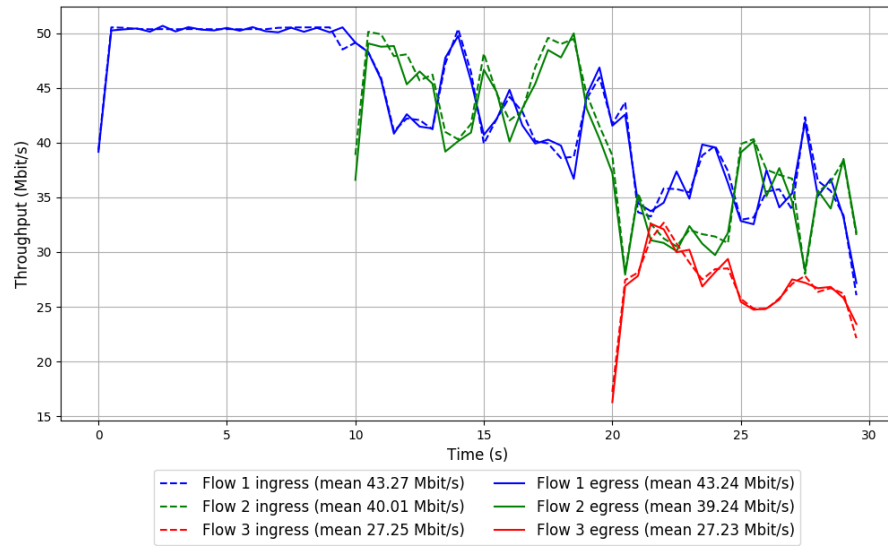


Run 7: Statistics of Sprout

Start at: 2018-04-24 22:20:02  
End at: 2018-04-24 22:20:32  
Local clock offset: -5.348 ms  
Remote clock offset: -4.045 ms

# Below is generated by plot.py at 2018-04-24 23:58:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.33 Mbit/s  
95th percentile per-packet one-way delay: 22.166 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 43.24 Mbit/s  
95th percentile per-packet one-way delay: 20.206 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.24 Mbit/s  
95th percentile per-packet one-way delay: 22.053 ms  
Loss rate: 1.89%  
-- Flow 3:  
Average throughput: 27.23 Mbit/s  
95th percentile per-packet one-way delay: 25.475 ms  
Loss rate: 0.00%

## Run 7: Report of Sprout — Data Link

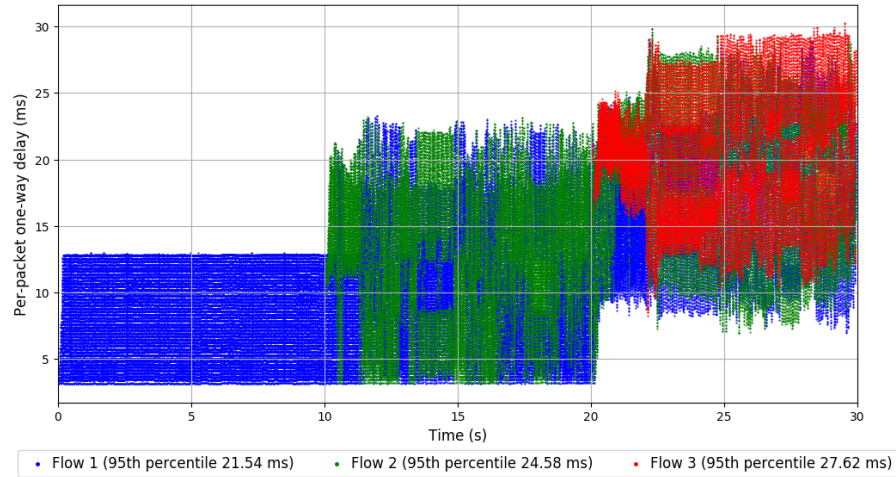
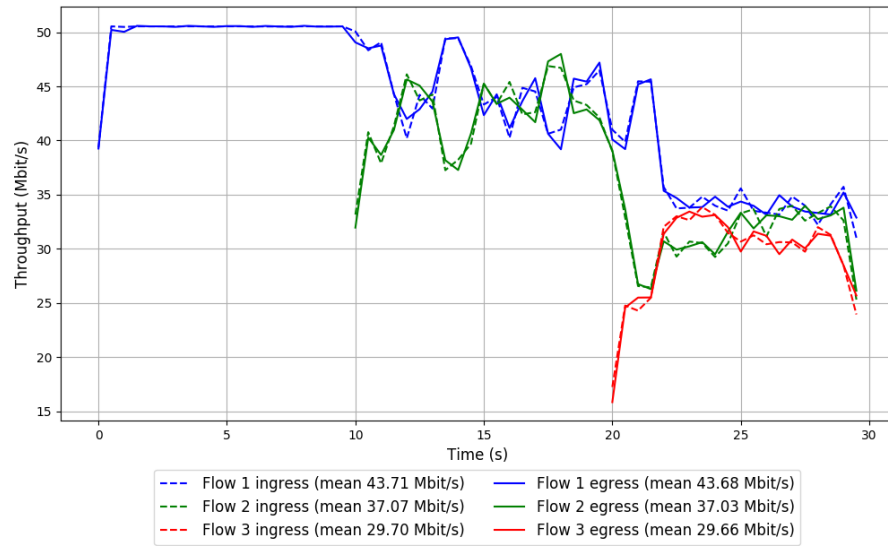


Run 8: Statistics of Sprout

Start at: 2018-04-24 22:39:13  
End at: 2018-04-24 22:39:43  
Local clock offset: -6.113 ms  
Remote clock offset: -4.617 ms

```
# Below is generated by plot.py at 2018-04-24 23:58:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 24.434 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 43.68 Mbit/s
95th percentile per-packet one-way delay: 21.542 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.03 Mbit/s
95th percentile per-packet one-way delay: 24.578 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 29.66 Mbit/s
95th percentile per-packet one-way delay: 27.621 ms
Loss rate: 0.00%
```

## Run 8: Report of Sprout — Data Link

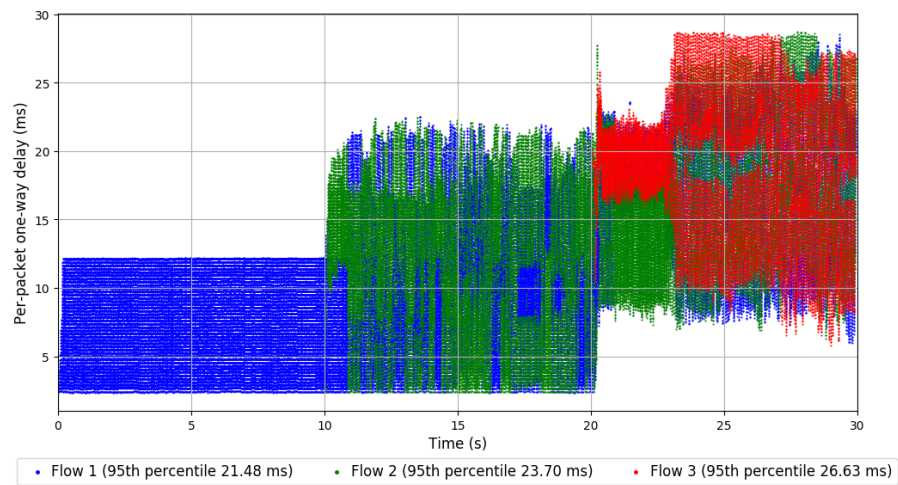
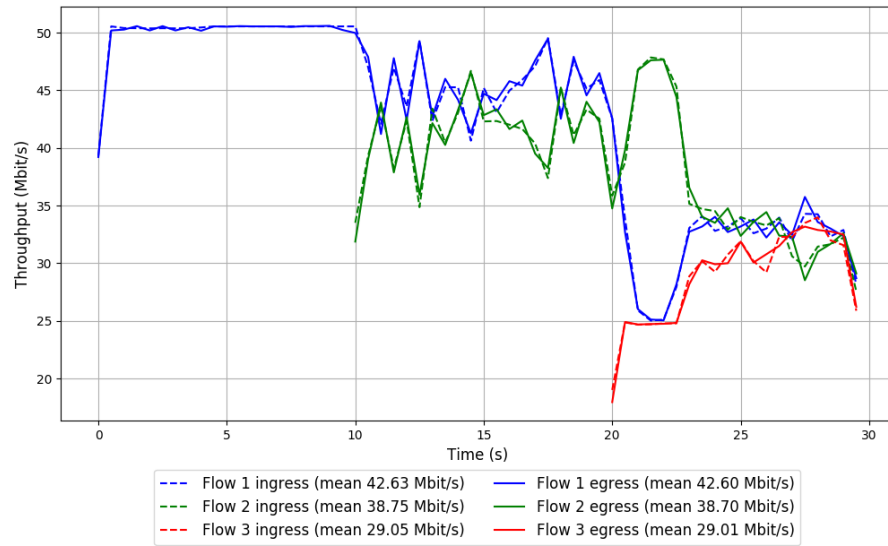


Run 9: Statistics of Sprout

Start at: 2018-04-24 22:58:24  
End at: 2018-04-24 22:58:54  
Local clock offset: -5.002 ms  
Remote clock offset: -6.358 ms

```
# Below is generated by plot.py at 2018-04-24 23:58:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.96 Mbit/s
95th percentile per-packet one-way delay: 23.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 42.60 Mbit/s
95th percentile per-packet one-way delay: 21.479 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.70 Mbit/s
95th percentile per-packet one-way delay: 23.700 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.01 Mbit/s
95th percentile per-packet one-way delay: 26.629 ms
Loss rate: 0.00%
```

## Run 9: Report of Sprout — Data Link

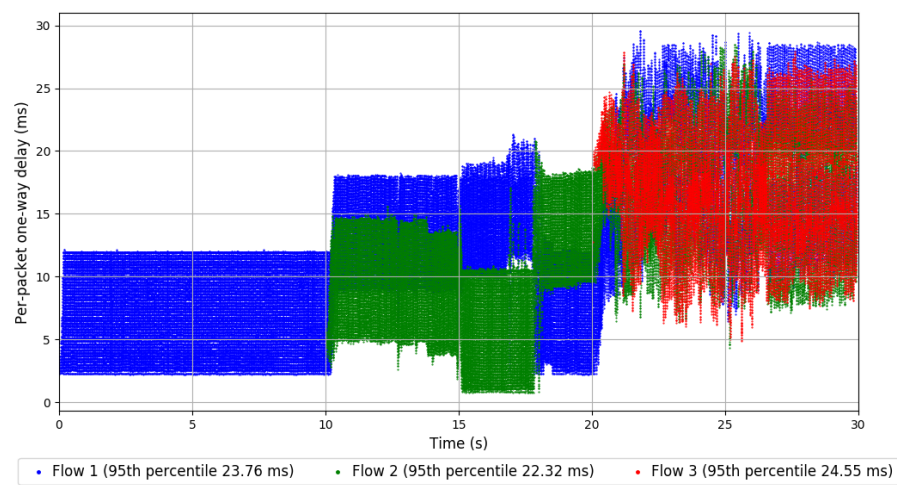
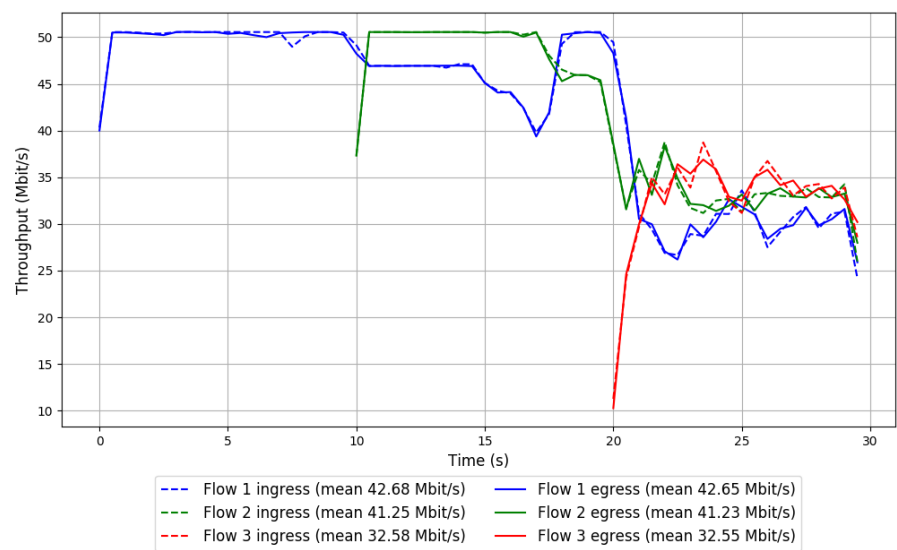


Run 10: Statistics of Sprout

Start at: 2018-04-24 23:17:37  
End at: 2018-04-24 23:18:07  
Local clock offset: -4.746 ms  
Remote clock offset: -6.665 ms

# Below is generated by plot.py at 2018-04-24 23:58:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.82 Mbit/s  
95th percentile per-packet one-way delay: 23.499 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 42.65 Mbit/s  
95th percentile per-packet one-way delay: 23.756 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.23 Mbit/s  
95th percentile per-packet one-way delay: 22.321 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 32.55 Mbit/s  
95th percentile per-packet one-way delay: 24.551 ms  
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



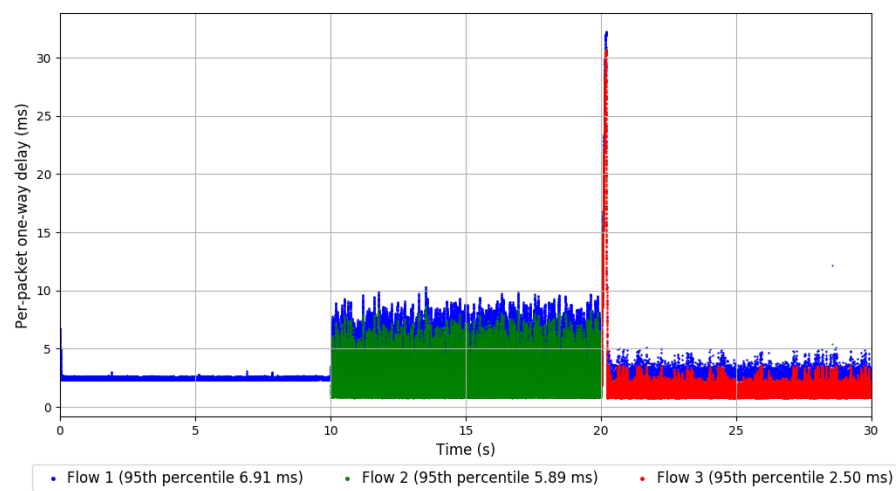
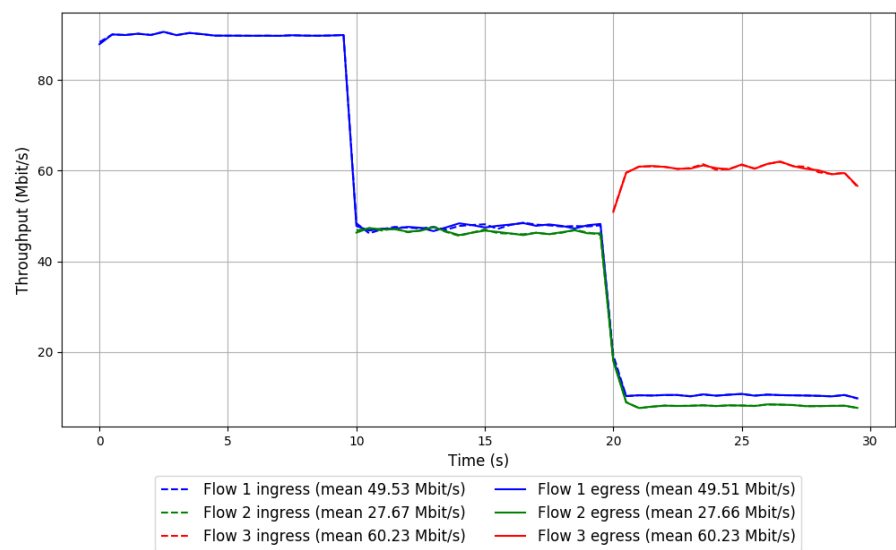


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 20:11:18  
End at: 2018-04-24 20:11:48  
Local clock offset: -4.97 ms  
Remote clock offset: -7.382 ms

# Below is generated by plot.py at 2018-04-24 23:59:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.93 Mbit/s  
95th percentile per-packet one-way delay: 6.365 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 49.51 Mbit/s  
95th percentile per-packet one-way delay: 6.907 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 27.66 Mbit/s  
95th percentile per-packet one-way delay: 5.893 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 60.23 Mbit/s  
95th percentile per-packet one-way delay: 2.501 ms  
Loss rate: 0.00%

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

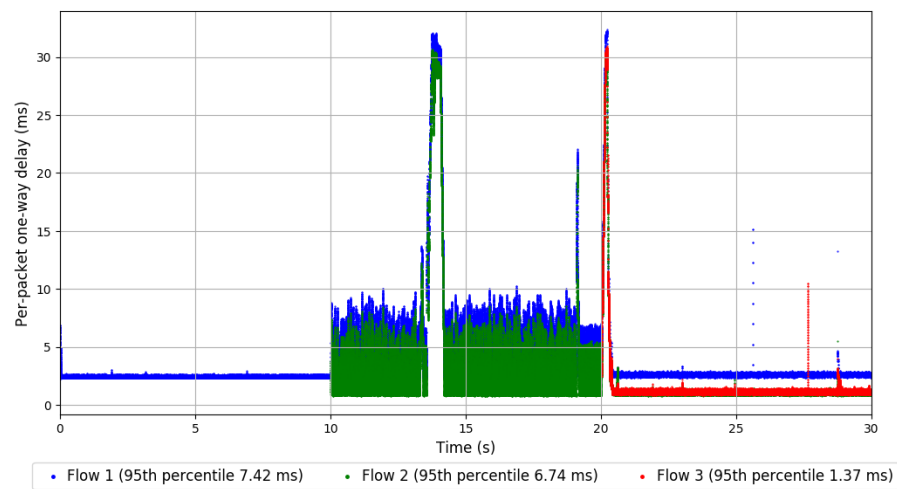
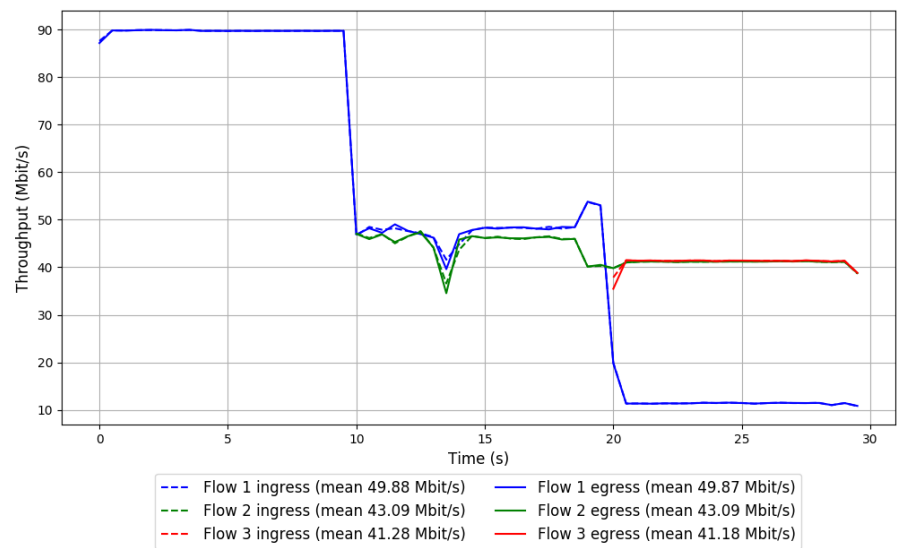


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 20:30:30  
End at: 2018-04-24 20:31:00  
Local clock offset: -5.039 ms  
Remote clock offset: -7.848 ms

# Below is generated by plot.py at 2018-04-24 23:59:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.23 Mbit/s  
95th percentile per-packet one-way delay: 7.047 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 49.87 Mbit/s  
95th percentile per-packet one-way delay: 7.417 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 43.09 Mbit/s  
95th percentile per-packet one-way delay: 6.738 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 41.18 Mbit/s  
95th percentile per-packet one-way delay: 1.374 ms  
Loss rate: 0.28%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 20:49:43

End at: 2018-04-24 20:50:13

Local clock offset: -5.029 ms

Remote clock offset: -8.25 ms

# Below is generated by plot.py at 2018-04-24 23:59:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 9.385 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 47.28 Mbit/s

95th percentile per-packet one-way delay: 9.263 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 44.17 Mbit/s

95th percentile per-packet one-way delay: 10.025 ms

Loss rate: 0.00%

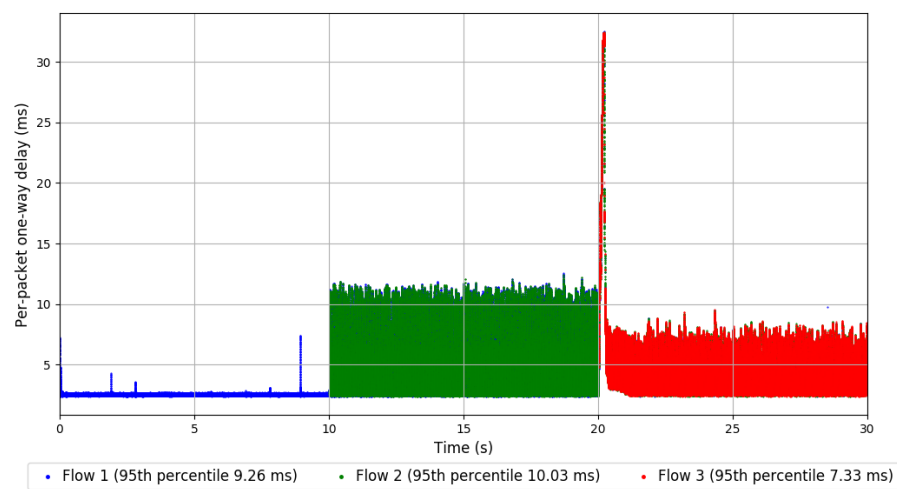
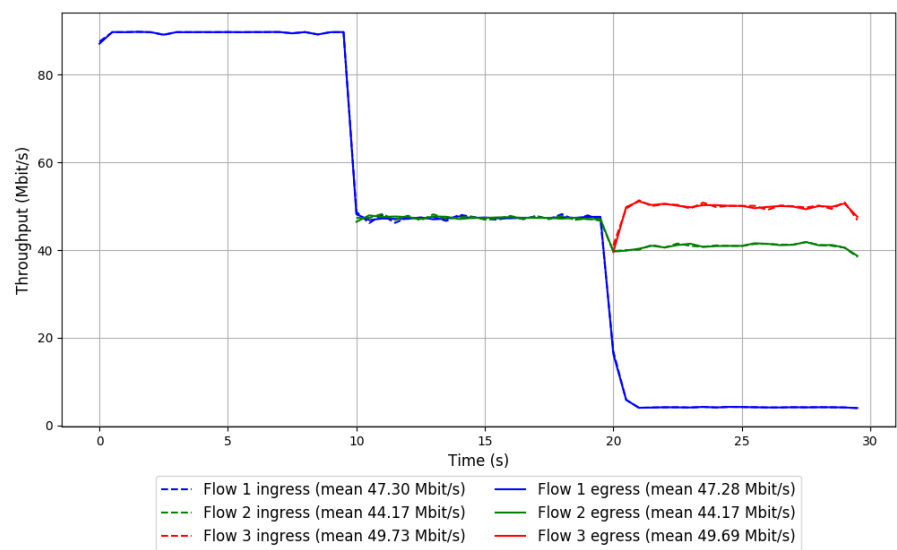
-- Flow 3:

Average throughput: 49.69 Mbit/s

95th percentile per-packet one-way delay: 7.328 ms

Loss rate: 0.08%

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

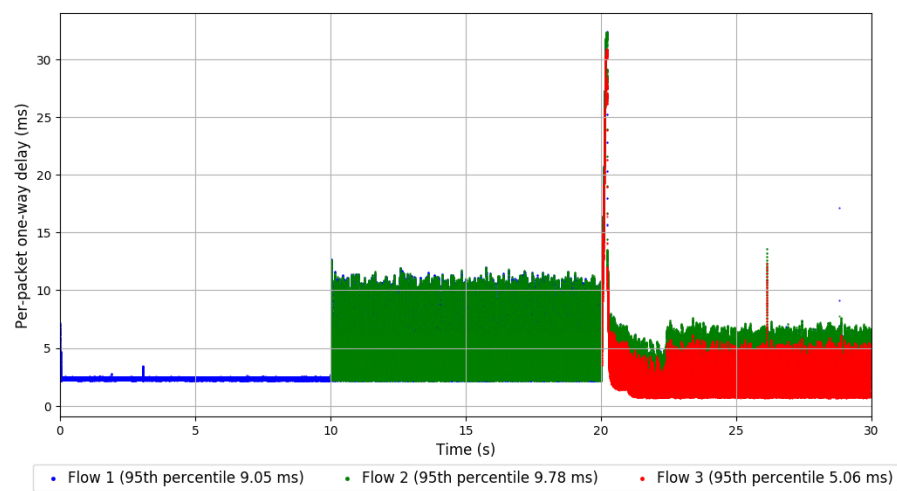
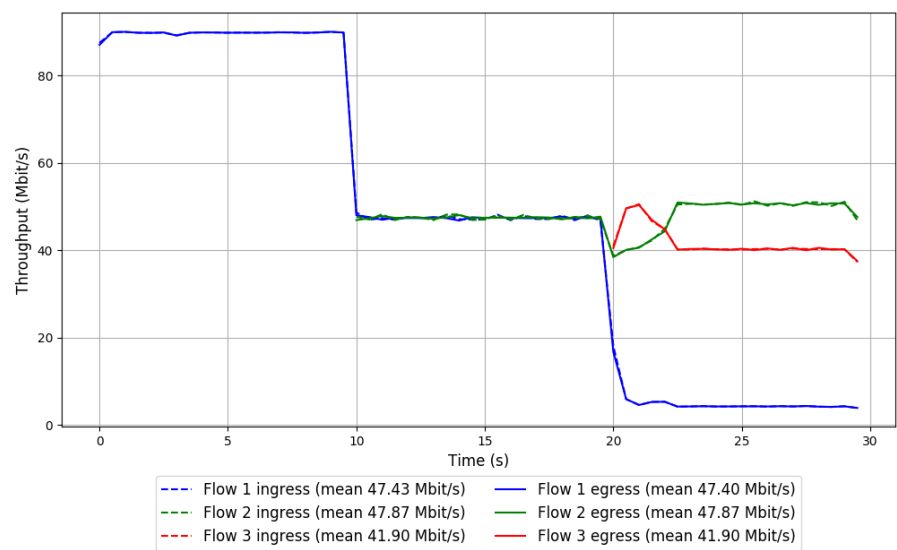


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 21:08:55  
End at: 2018-04-24 21:09:25  
Local clock offset: -4.893 ms  
Remote clock offset: -5.687 ms

# Below is generated by plot.py at 2018-04-24 23:59:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.16 Mbit/s  
95th percentile per-packet one-way delay: 9.225 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 47.40 Mbit/s  
95th percentile per-packet one-way delay: 9.054 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 47.87 Mbit/s  
95th percentile per-packet one-way delay: 9.778 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 41.90 Mbit/s  
95th percentile per-packet one-way delay: 5.057 ms  
Loss rate: 0.02%

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



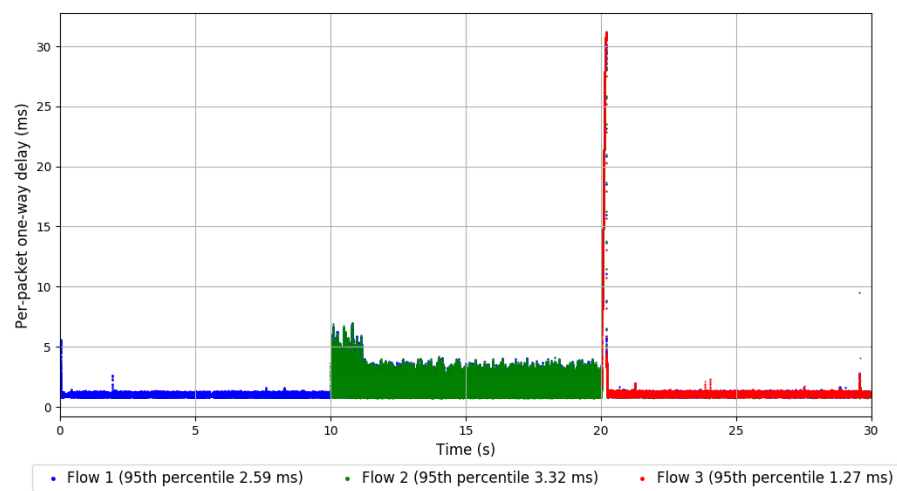
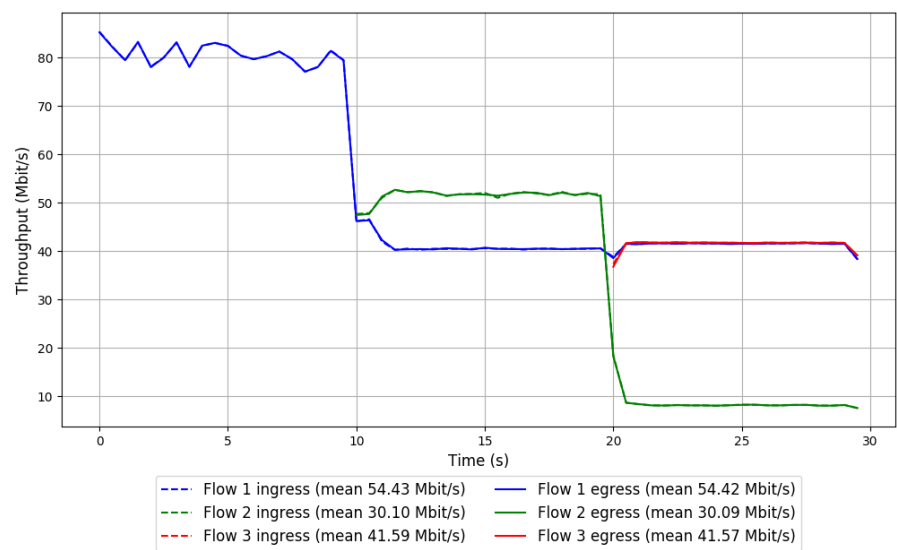


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 21:28:07  
End at: 2018-04-24 21:28:37  
Local clock offset: -4.912 ms  
Remote clock offset: -4.848 ms

# Below is generated by plot.py at 2018-04-25 00:00:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.26 Mbit/s  
95th percentile per-packet one-way delay: 2.845 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 54.42 Mbit/s  
95th percentile per-packet one-way delay: 2.593 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 30.09 Mbit/s  
95th percentile per-packet one-way delay: 3.324 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 41.57 Mbit/s  
95th percentile per-packet one-way delay: 1.270 ms  
Loss rate: 0.06%

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

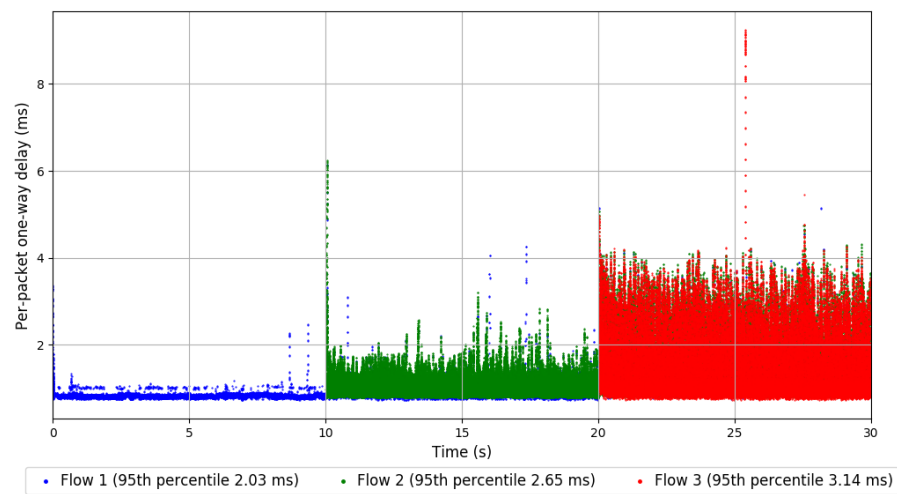
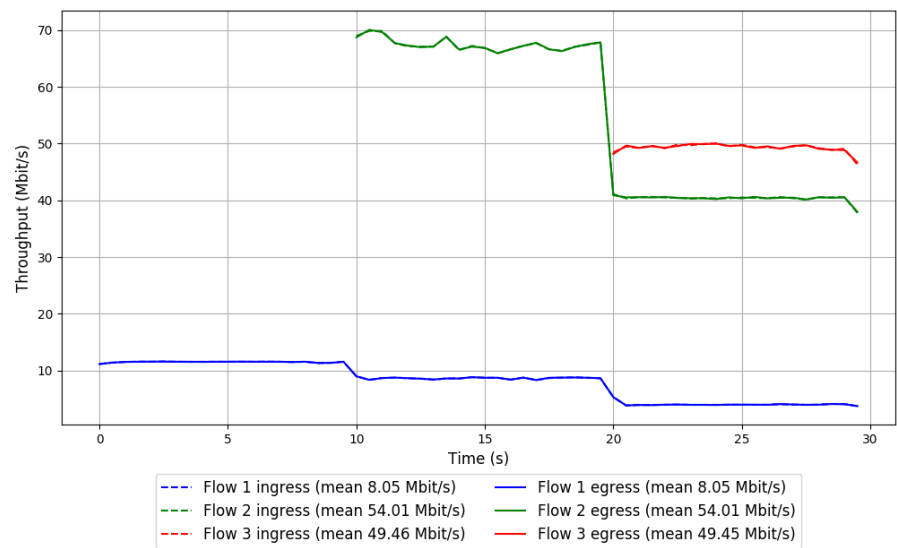


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 21:47:17  
End at: 2018-04-24 21:47:47  
Local clock offset: -5.06 ms  
Remote clock offset: -4.635 ms

# Below is generated by plot.py at 2018-04-25 00:00:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.45 Mbit/s  
95th percentile per-packet one-way delay: 2.834 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 8.05 Mbit/s  
95th percentile per-packet one-way delay: 2.033 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 54.01 Mbit/s  
95th percentile per-packet one-way delay: 2.651 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 49.45 Mbit/s  
95th percentile per-packet one-way delay: 3.140 ms  
Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 22:06:27

End at: 2018-04-24 22:06:57

Local clock offset: -4.511 ms

Remote clock offset: -4.3 ms

# Below is generated by plot.py at 2018-04-25 00:00:44

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.02 Mbit/s

95th percentile per-packet one-way delay: 8.664 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 66.46 Mbit/s

95th percentile per-packet one-way delay: 7.622 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 28.22 Mbit/s

95th percentile per-packet one-way delay: 9.631 ms

Loss rate: 0.09%

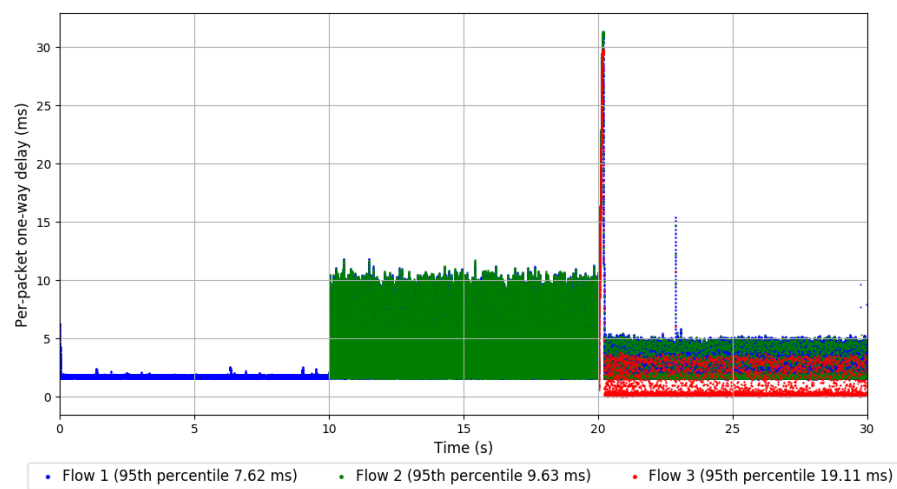
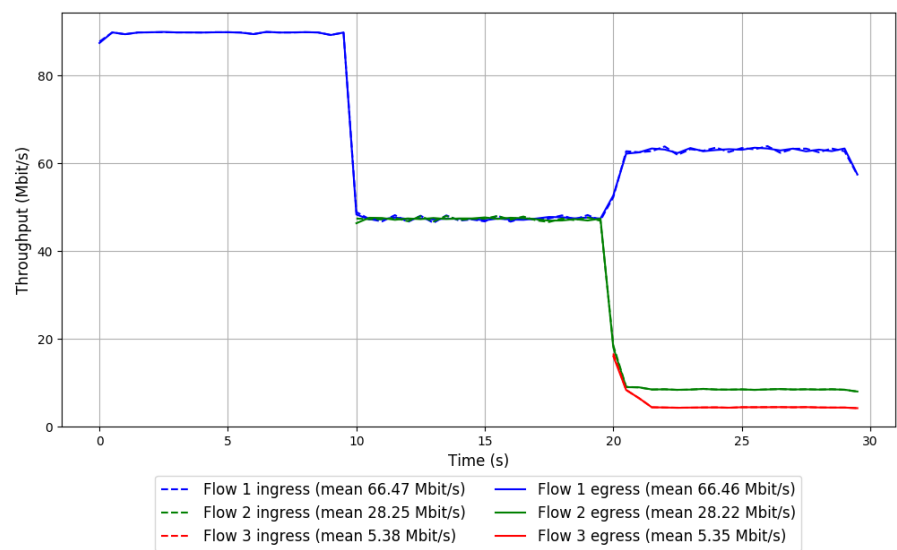
-- Flow 3:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.57%

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

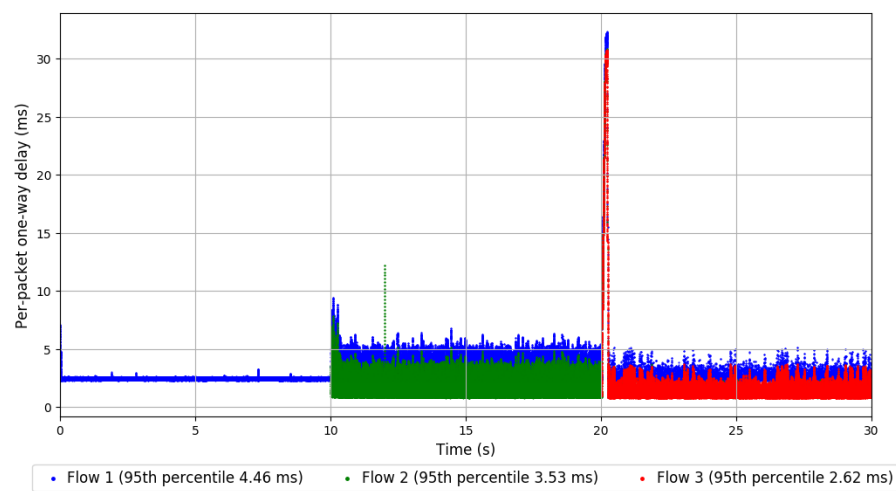
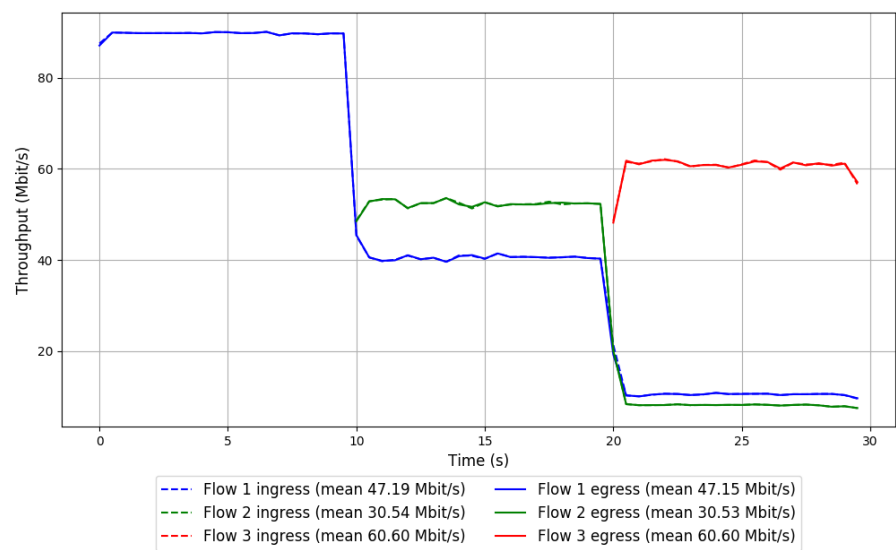


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 22:25:39  
End at: 2018-04-24 22:26:09  
Local clock offset: -5.287 ms  
Remote clock offset: -3.928 ms

# Below is generated by plot.py at 2018-04-25 00:00:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.59 Mbit/s  
95th percentile per-packet one-way delay: 4.006 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 47.15 Mbit/s  
95th percentile per-packet one-way delay: 4.455 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 30.53 Mbit/s  
95th percentile per-packet one-way delay: 3.532 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 60.60 Mbit/s  
95th percentile per-packet one-way delay: 2.624 ms  
Loss rate: 0.00%

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



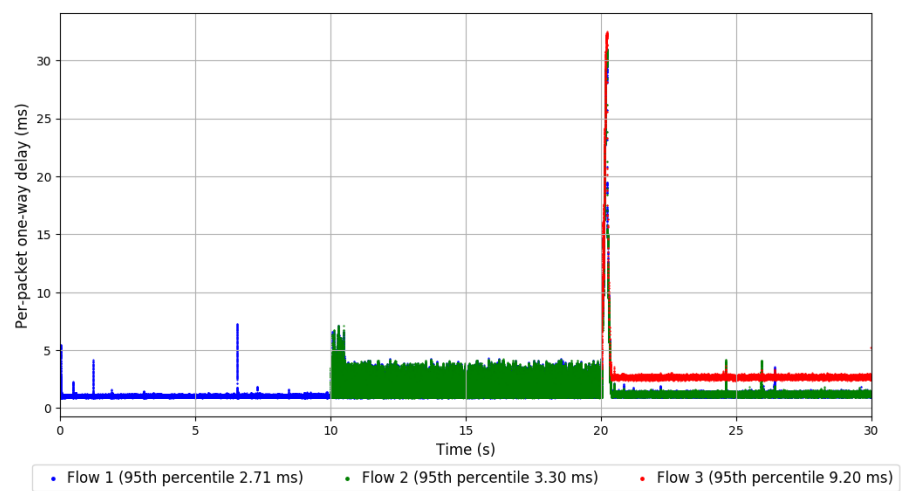
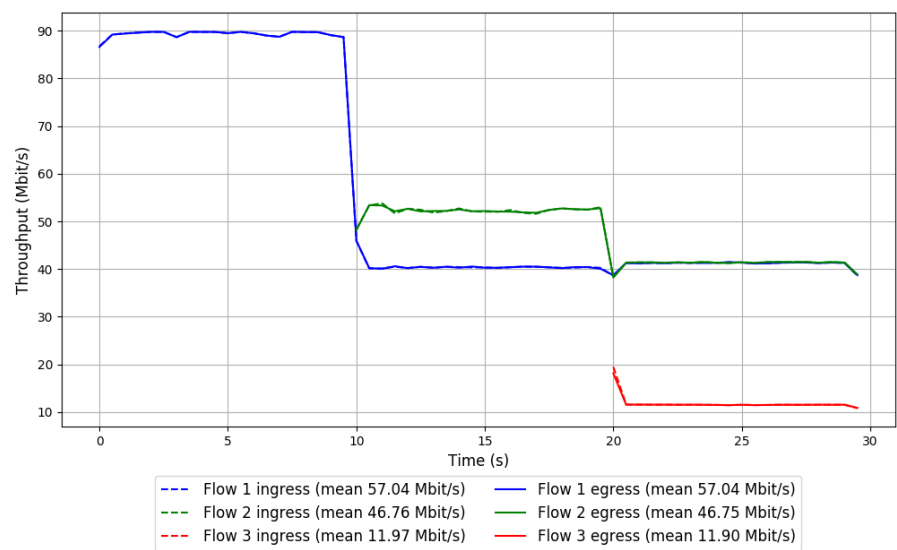


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 22:44:50  
End at: 2018-04-24 22:45:20  
Local clock offset: -5.327 ms  
Remote clock offset: -5.451 ms

# Below is generated by plot.py at 2018-04-25 00:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.11 Mbit/s  
95th percentile per-packet one-way delay: 3.022 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 57.04 Mbit/s  
95th percentile per-packet one-way delay: 2.707 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.75 Mbit/s  
95th percentile per-packet one-way delay: 3.300 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 11.90 Mbit/s  
95th percentile per-packet one-way delay: 9.199 ms  
Loss rate: 0.55%

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

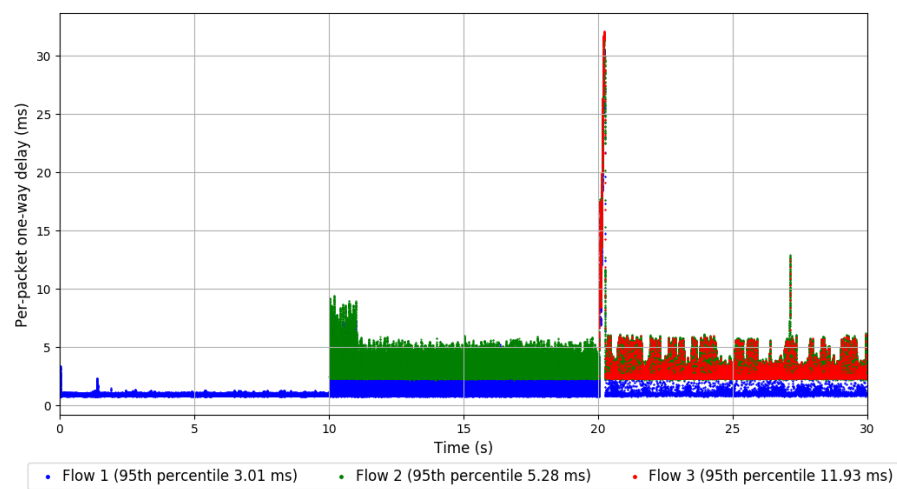
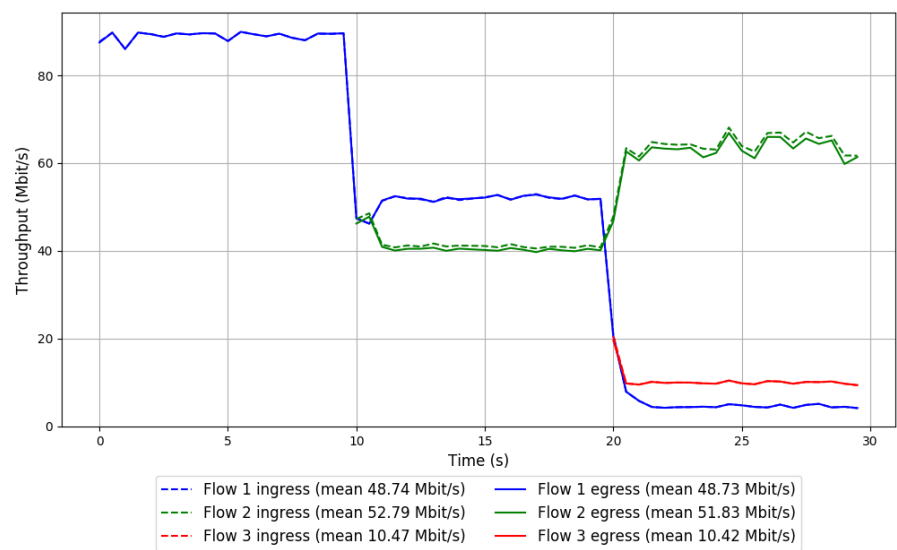


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 23:04:01
End at: 2018-04-24 23:04:31
Local clock offset: -4.94 ms
Remote clock offset: -6.628 ms

# Below is generated by plot.py at 2018-04-25 00:02:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.68 Mbit/s
95th percentile per-packet one-way delay: 4.774 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 3.012 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 51.83 Mbit/s
95th percentile per-packet one-way delay: 5.278 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 10.42 Mbit/s
95th percentile per-packet one-way delay: 11.929 ms
Loss rate: 0.44%
```

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

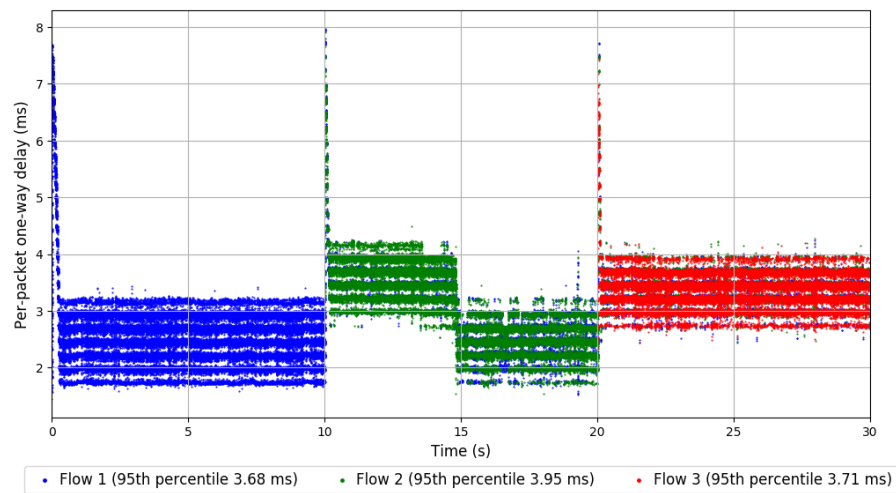
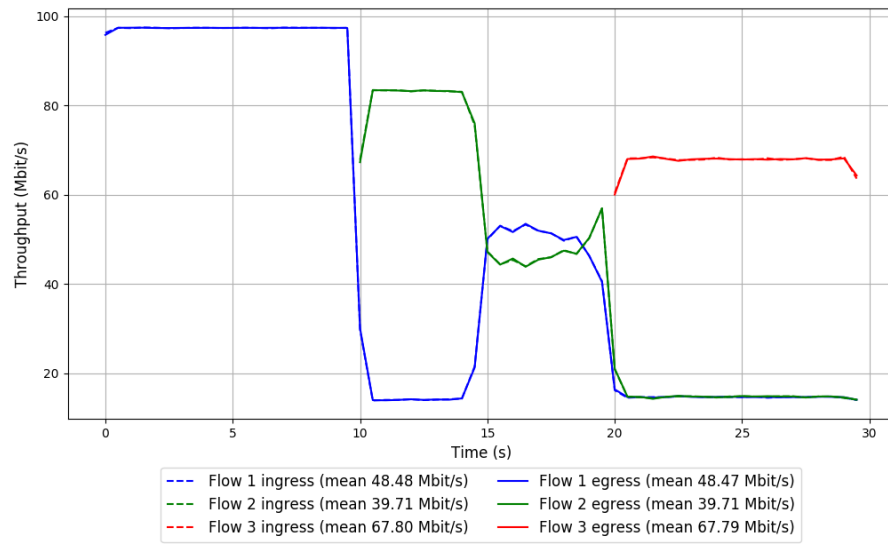


Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 20:14:45  
End at: 2018-04-24 20:15:15  
Local clock offset: -4.203 ms  
Remote clock offset: -7.472 ms

# Below is generated by plot.py at 2018-04-25 00:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 3.886 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 48.47 Mbit/s  
95th percentile per-packet one-way delay: 3.683 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.71 Mbit/s  
95th percentile per-packet one-way delay: 3.948 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 67.79 Mbit/s  
95th percentile per-packet one-way delay: 3.715 ms  
Loss rate: 0.00%

# Run 1: Report of TCP Vegas — Data Link

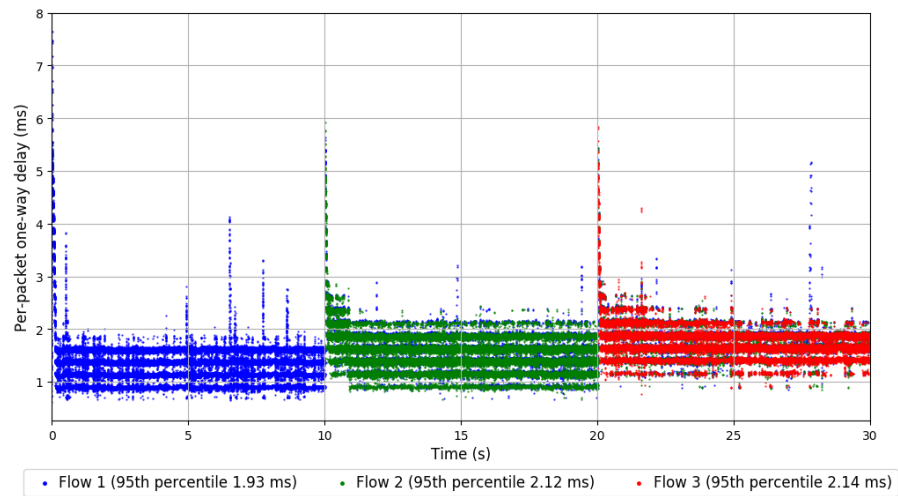
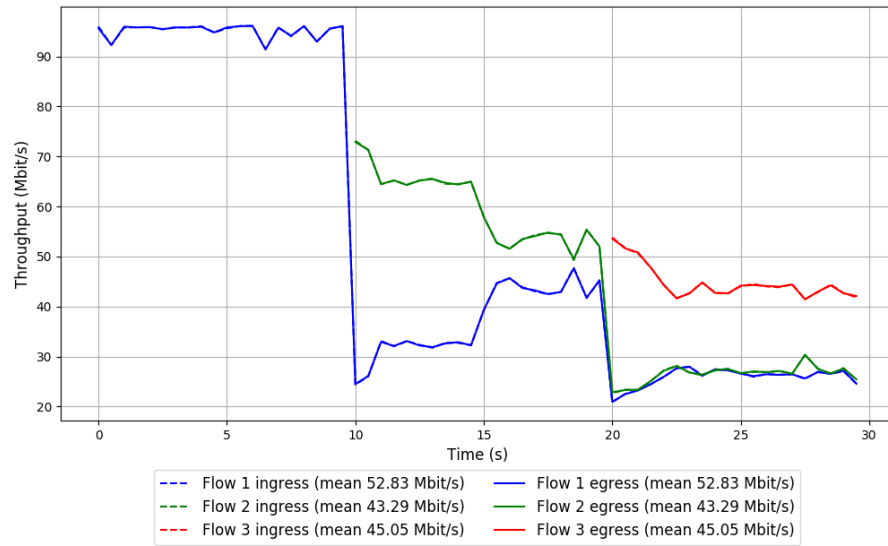


Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 20:33:57  
End at: 2018-04-24 20:34:27  
Local clock offset: -4.949 ms  
Remote clock offset: -7.989 ms

# Below is generated by plot.py at 2018-04-25 00:02:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.62 Mbit/s  
95th percentile per-packet one-way delay: 2.109 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 52.83 Mbit/s  
95th percentile per-packet one-way delay: 1.926 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 43.29 Mbit/s  
95th percentile per-packet one-way delay: 2.122 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 45.05 Mbit/s  
95th percentile per-packet one-way delay: 2.141 ms  
Loss rate: 0.00%

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





Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 20:53:10

End at: 2018-04-24 20:53:40

Local clock offset: -5.04 ms

Remote clock offset: -8.31 ms

# Below is generated by plot.py at 2018-04-25 00:02:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 96.78 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.82 Mbit/s

95th percentile per-packet one-way delay: 2.050 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 44.85 Mbit/s

95th percentile per-packet one-way delay: 2.140 ms

Loss rate: 0.00%

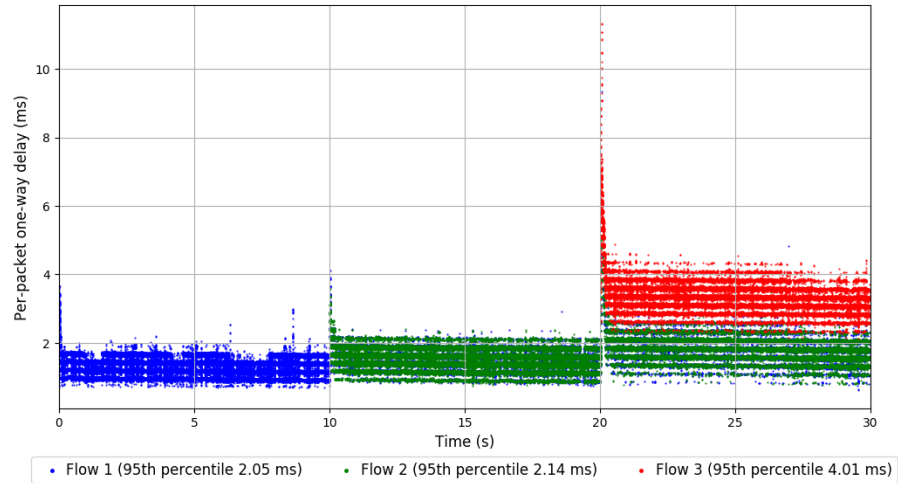
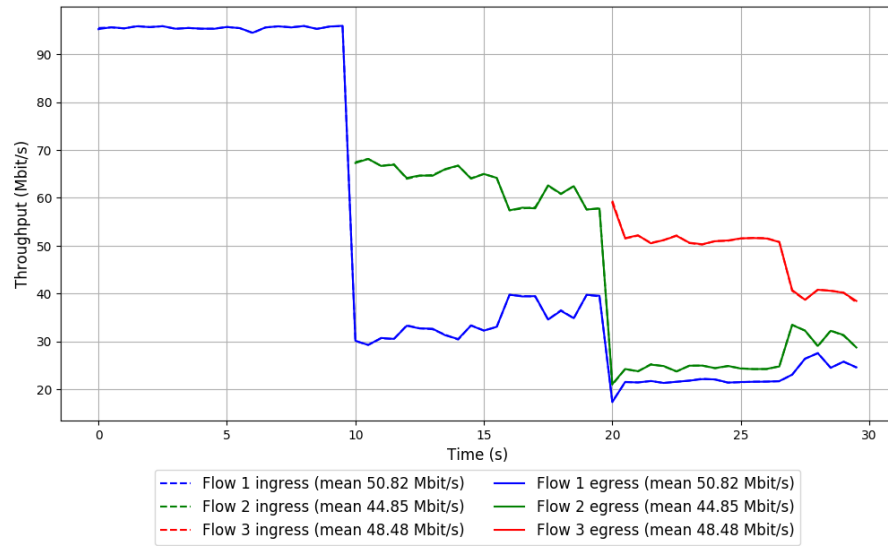
-- Flow 3:

Average throughput: 48.48 Mbit/s

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

Loss rate: 0.00%

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

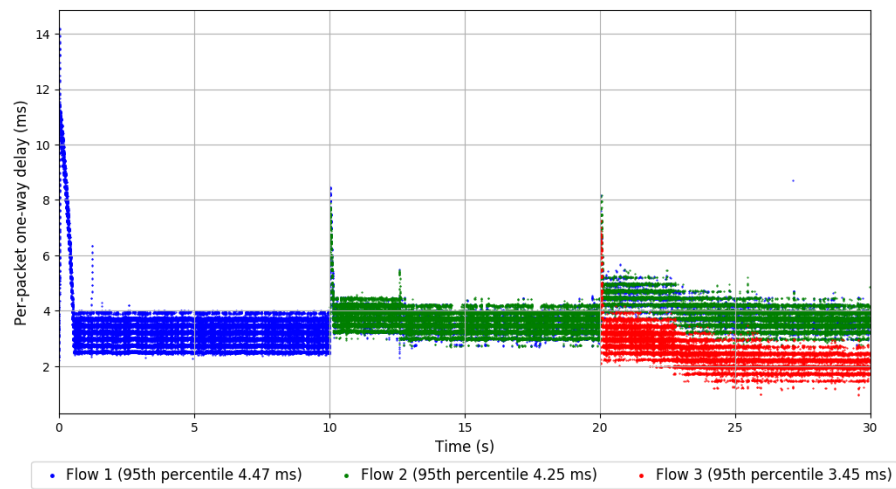
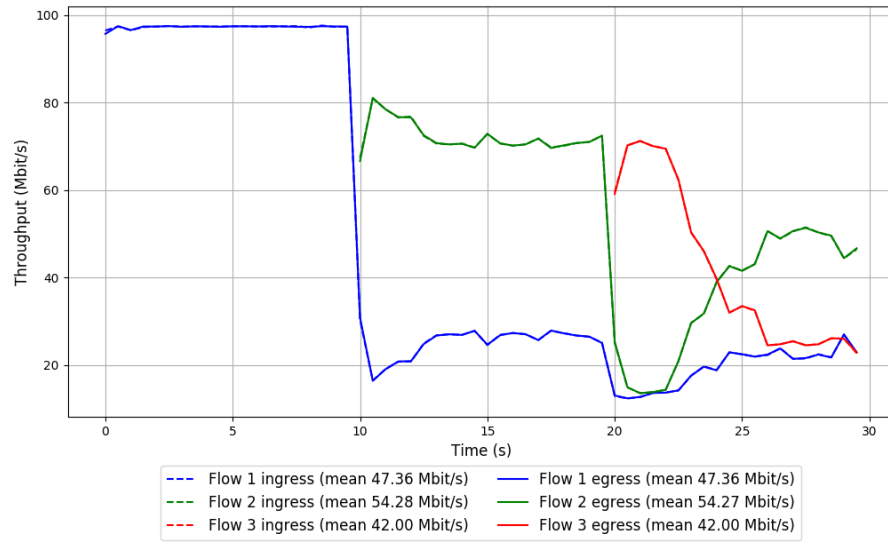


Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 21:12:22  
End at: 2018-04-24 21:12:52  
Local clock offset: -4.879 ms  
Remote clock offset: -5.371 ms

# Below is generated by plot.py at 2018-04-25 00:02:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 4.238 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 47.36 Mbit/s  
95th percentile per-packet one-way delay: 4.466 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 54.27 Mbit/s  
95th percentile per-packet one-way delay: 4.248 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 42.00 Mbit/s  
95th percentile per-packet one-way delay: 3.446 ms  
Loss rate: 0.00%

# Run 4: Report of TCP Vegas — Data Link

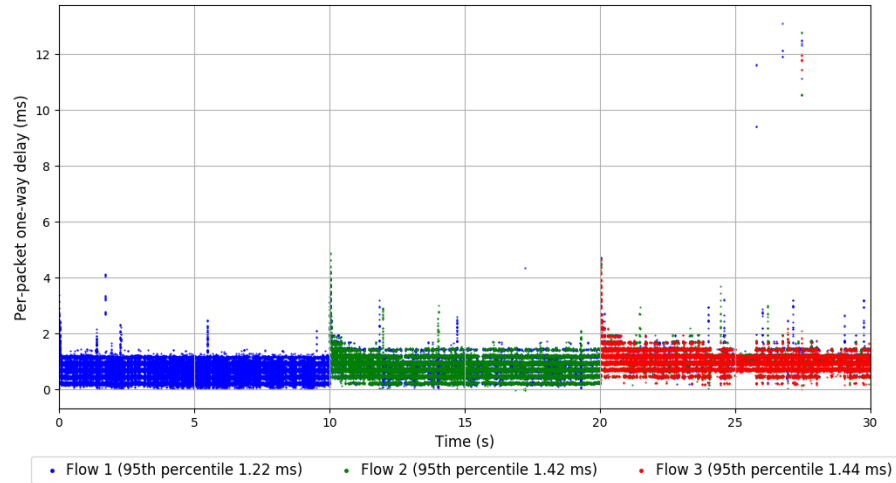
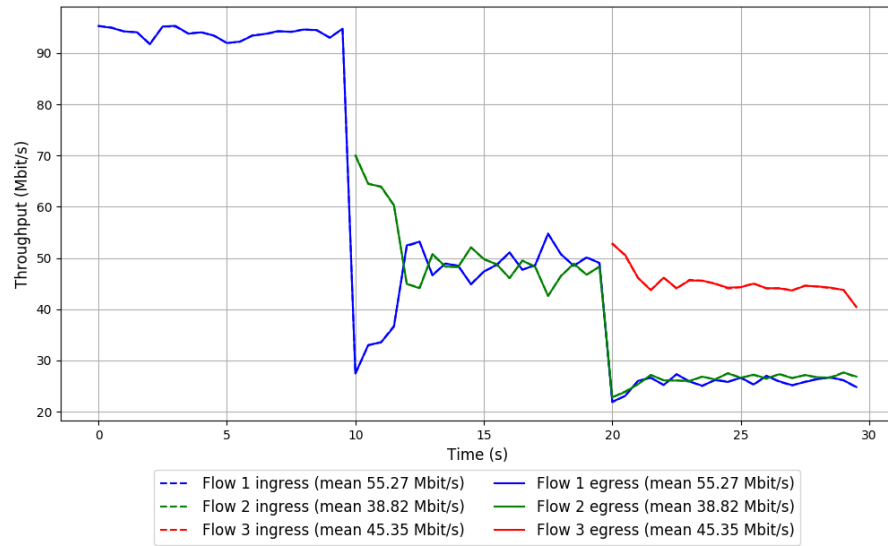


Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 21:31:34  
End at: 2018-04-24 21:32:04  
Local clock offset: -4.072 ms  
Remote clock offset: -4.802 ms

```
# Below is generated by plot.py at 2018-04-25 00:02:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 1.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.27 Mbit/s
95th percentile per-packet one-way delay: 1.217 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.82 Mbit/s
95th percentile per-packet one-way delay: 1.420 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 45.35 Mbit/s
95th percentile per-packet one-way delay: 1.442 ms
Loss rate: 0.00%
```

# Run 5: Report of TCP Vegas — Data Link

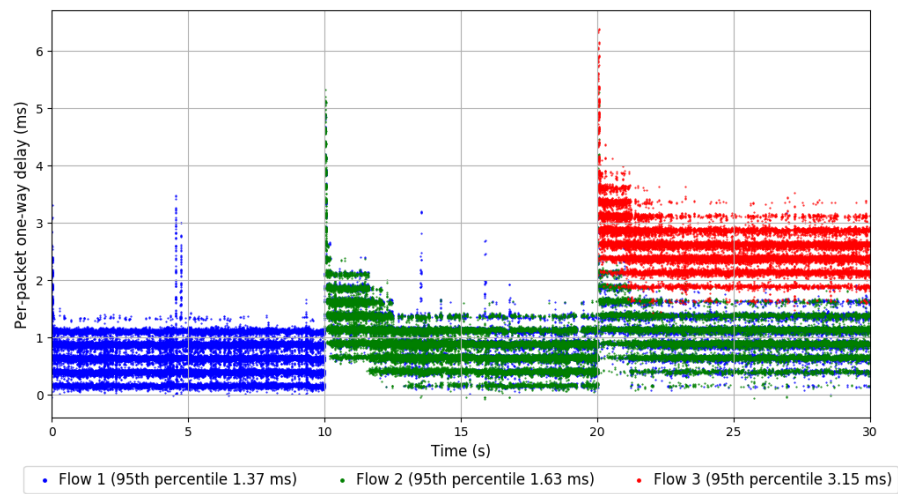
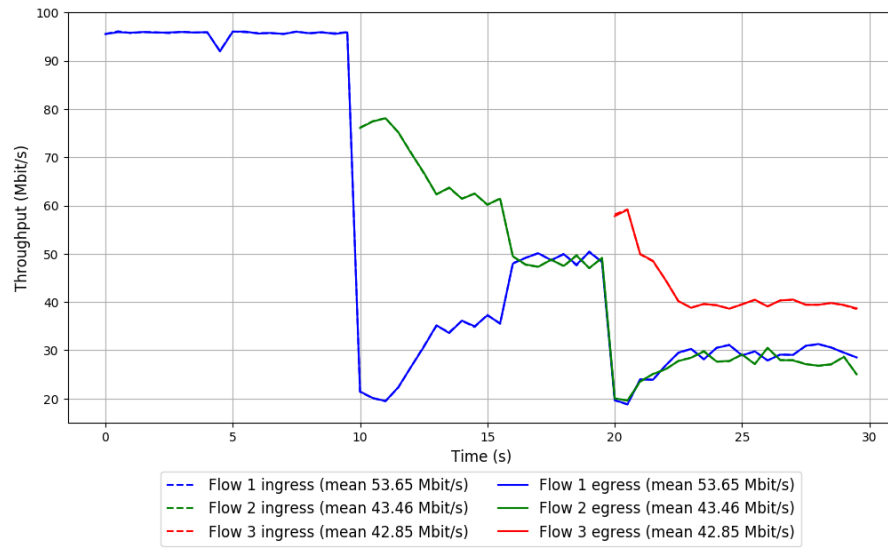


Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 21:50:42  
End at: 2018-04-24 21:51:12  
Local clock offset: -4.363 ms  
Remote clock offset: -4.639 ms

# Below is generated by plot.py at 2018-04-25 00:02:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.83 Mbit/s  
95th percentile per-packet one-way delay: 2.641 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 53.65 Mbit/s  
95th percentile per-packet one-way delay: 1.371 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 43.46 Mbit/s  
95th percentile per-packet one-way delay: 1.634 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 42.85 Mbit/s  
95th percentile per-packet one-way delay: 3.147 ms  
Loss rate: 0.01%

# Run 6: Report of TCP Vegas — Data Link



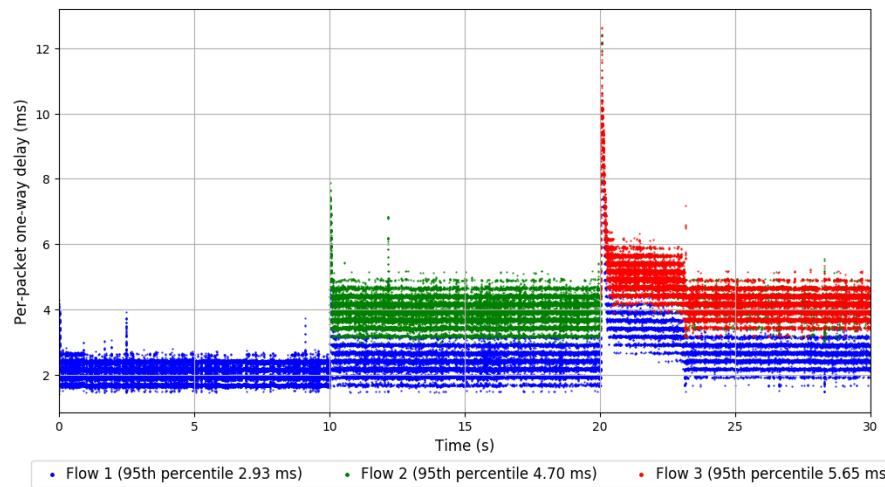
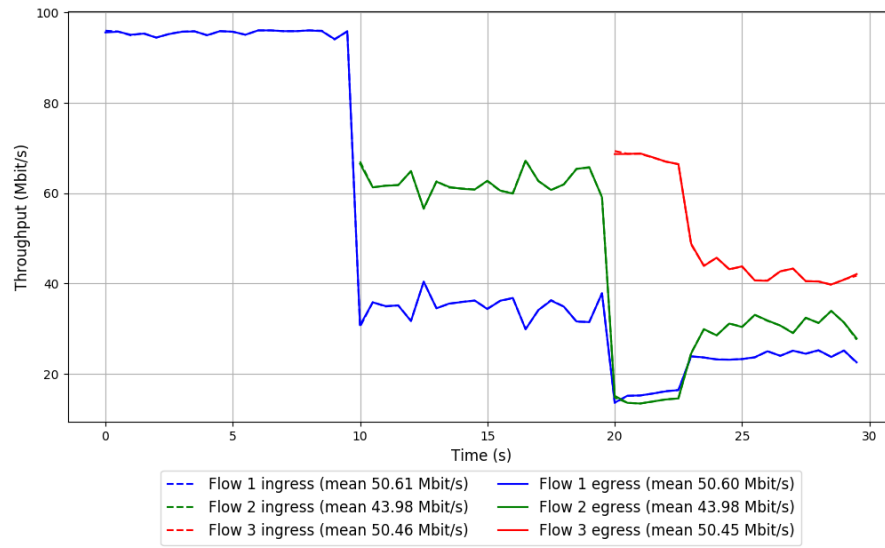


Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 22:09:54  
End at: 2018-04-24 22:10:24  
Local clock offset: -6.058 ms  
Remote clock offset: -4.307 ms

# Below is generated by plot.py at 2018-04-25 00:02:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.63 Mbit/s  
95th percentile per-packet one-way delay: 4.944 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.60 Mbit/s  
95th percentile per-packet one-way delay: 2.931 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 43.98 Mbit/s  
95th percentile per-packet one-way delay: 4.699 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 50.45 Mbit/s  
95th percentile per-packet one-way delay: 5.654 ms  
Loss rate: 0.01%

# Run 7: Report of TCP Vegas — Data Link

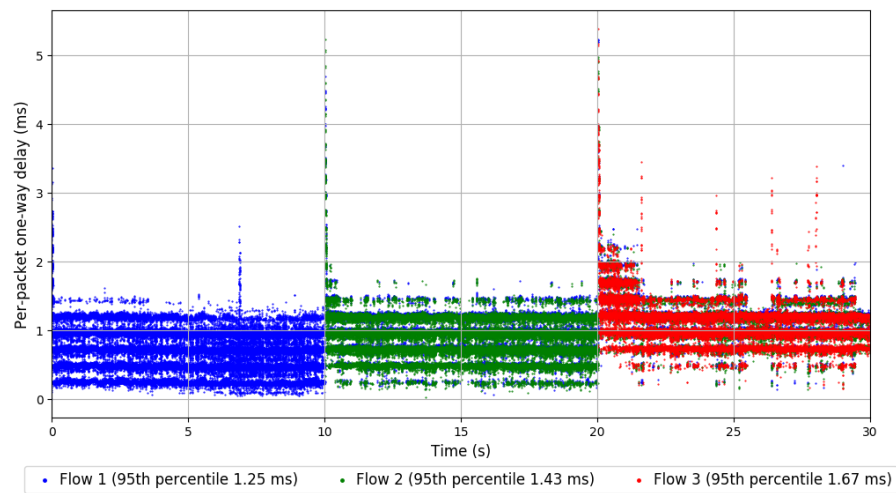
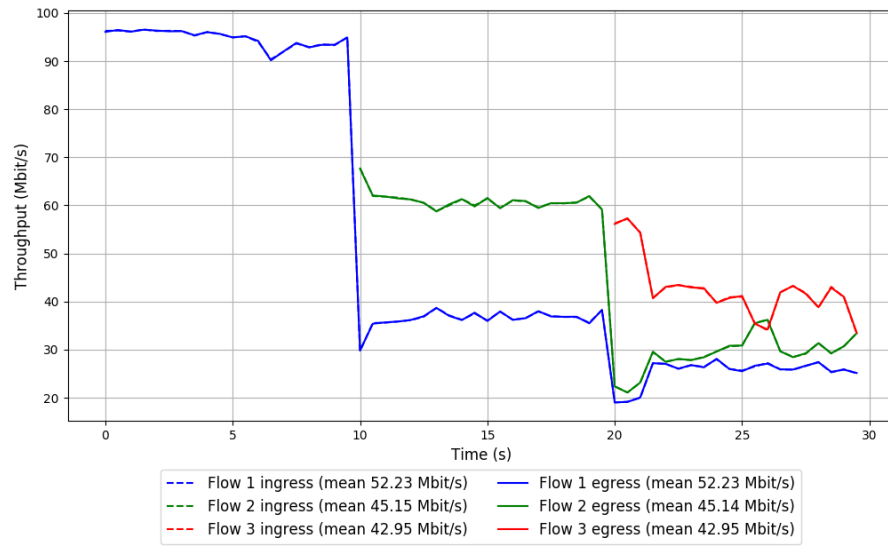


Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 22:29:05  
End at: 2018-04-24 22:29:35  
Local clock offset: -4.536 ms  
Remote clock offset: -3.847 ms

# Below is generated by plot.py at 2018-04-25 00:02:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.55 Mbit/s  
95th percentile per-packet one-way delay: 1.435 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 52.23 Mbit/s  
95th percentile per-packet one-way delay: 1.247 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 45.14 Mbit/s  
95th percentile per-packet one-way delay: 1.431 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 42.95 Mbit/s  
95th percentile per-packet one-way delay: 1.668 ms  
Loss rate: 0.00%

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

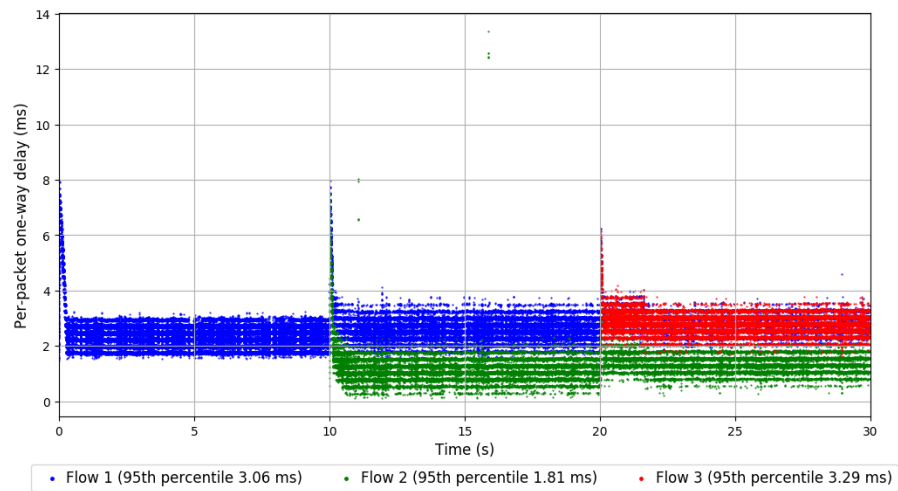
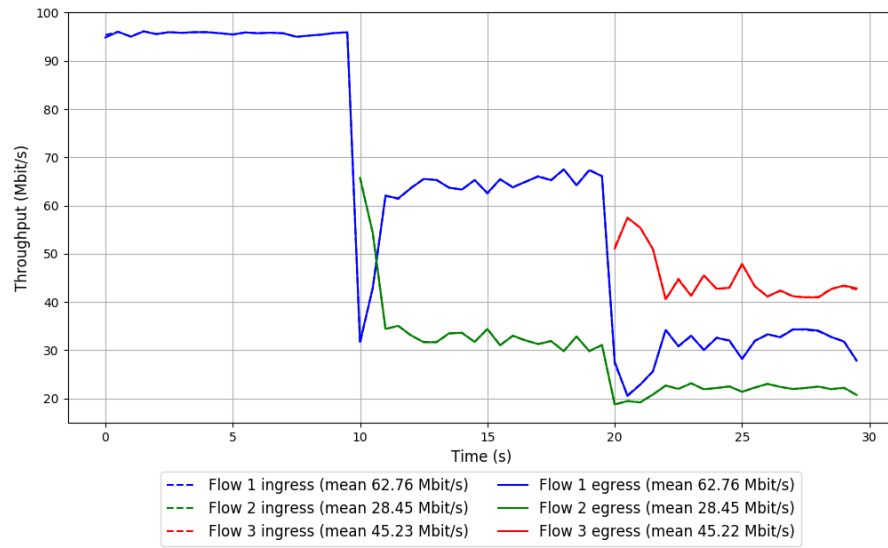


Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 22:48:17  
End at: 2018-04-24 22:48:47  
Local clock offset: -4.46 ms  
Remote clock offset: -5.805 ms

# Below is generated by plot.py at 2018-04-25 00:03:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.72 Mbit/s  
95th percentile per-packet one-way delay: 3.100 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.76 Mbit/s  
95th percentile per-packet one-way delay: 3.065 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 28.45 Mbit/s  
95th percentile per-packet one-way delay: 1.807 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 45.22 Mbit/s  
95th percentile per-packet one-way delay: 3.292 ms  
Loss rate: 0.00%

# Run 9: Report of TCP Vegas — Data Link

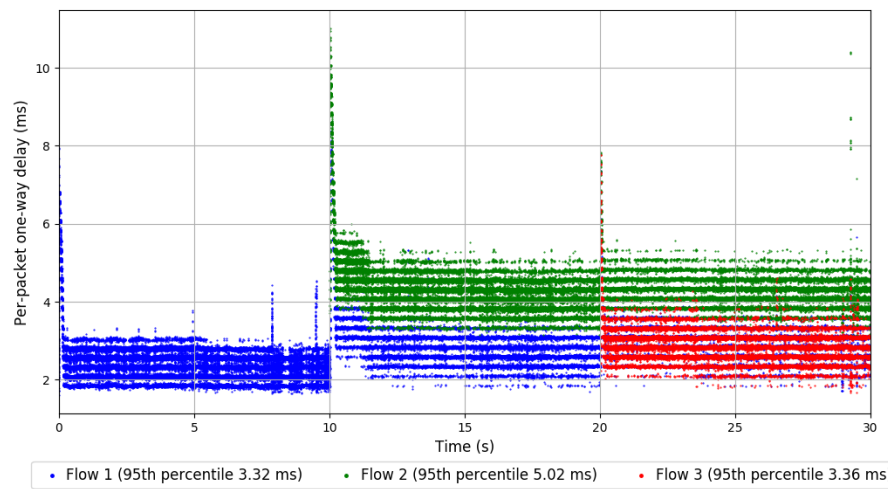
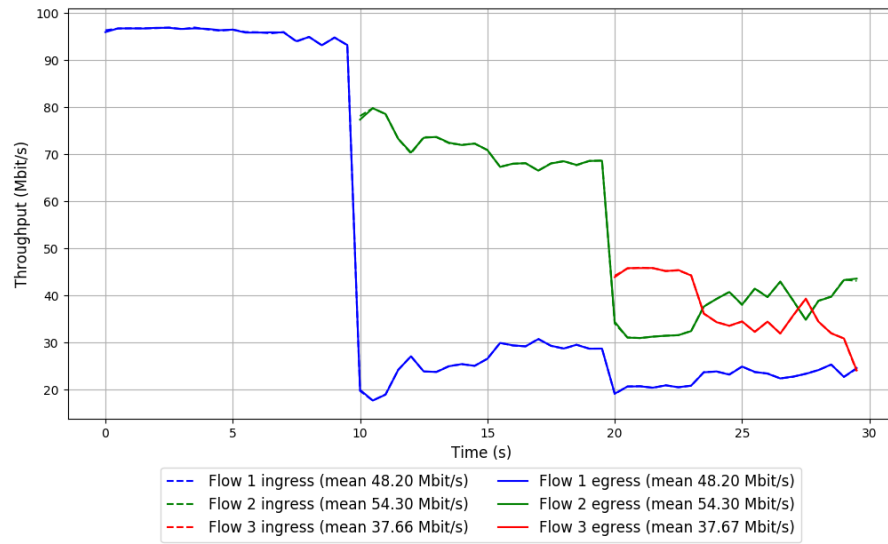


Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 23:07:29  
End at: 2018-04-24 23:07:59  
Local clock offset: -5.65 ms  
Remote clock offset: -6.634 ms

# Below is generated by plot.py at 2018-04-25 00:03:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.87 Mbit/s  
95th percentile per-packet one-way delay: 4.769 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 48.20 Mbit/s  
95th percentile per-packet one-way delay: 3.316 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 54.30 Mbit/s  
95th percentile per-packet one-way delay: 5.022 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 37.67 Mbit/s  
95th percentile per-packet one-way delay: 3.360 ms  
Loss rate: 0.00%

# Run 10: Report of TCP Vegas — Data Link



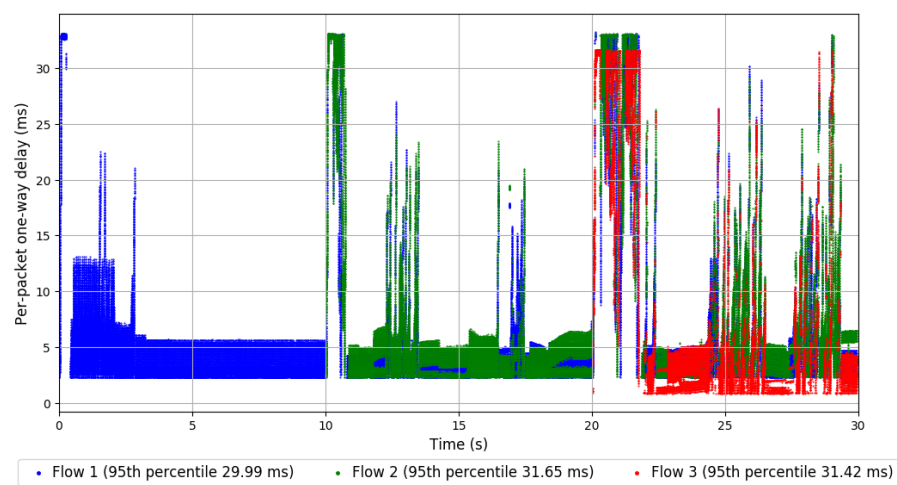
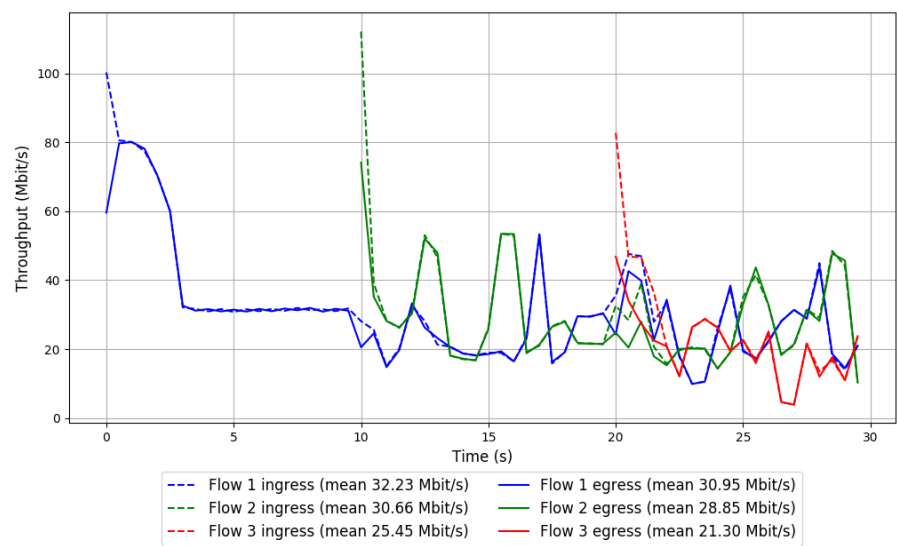


Run 1: Statistics of Verus

Start at: 2018-04-24 20:13:38  
End at: 2018-04-24 20:14:08  
Local clock offset: -4.972 ms  
Remote clock offset: -7.431 ms

# Below is generated by plot.py at 2018-04-25 00:03:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.21 Mbit/s  
95th percentile per-packet one-way delay: 31.248 ms  
Loss rate: 6.32%  
-- Flow 1:  
Average throughput: 30.95 Mbit/s  
95th percentile per-packet one-way delay: 29.989 ms  
Loss rate: 3.98%  
-- Flow 2:  
Average throughput: 28.85 Mbit/s  
95th percentile per-packet one-way delay: 31.654 ms  
Loss rate: 5.88%  
-- Flow 3:  
Average throughput: 21.30 Mbit/s  
95th percentile per-packet one-way delay: 31.416 ms  
Loss rate: 16.31%

Run 1: Report of Verus — Data Link

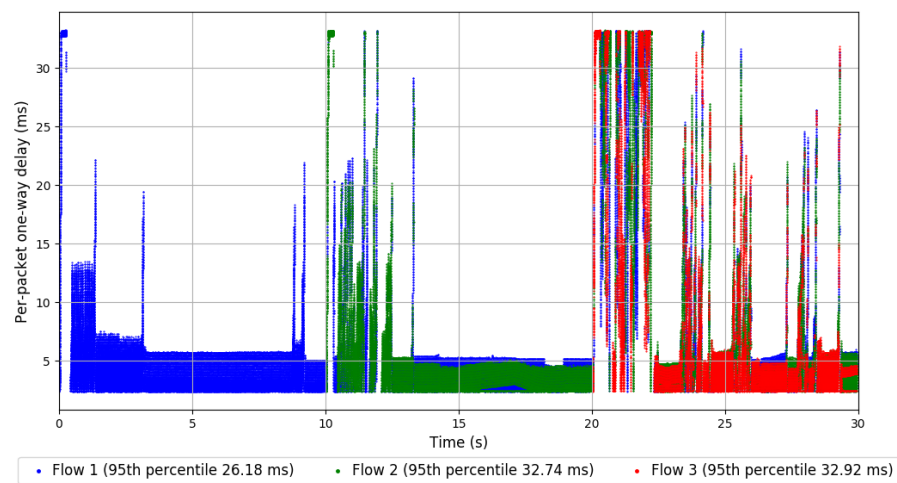
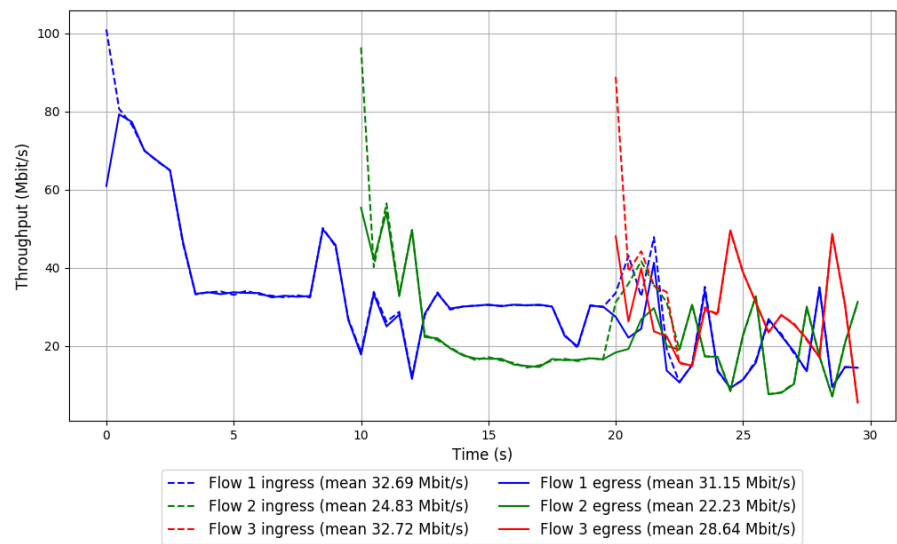


Run 2: Statistics of Verus

Start at: 2018-04-24 20:32:50  
End at: 2018-04-24 20:33:20  
Local clock offset: -5.081 ms  
Remote clock offset: -7.903 ms

# Below is generated by plot.py at 2018-04-25 00:03:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.43 Mbit/s  
95th percentile per-packet one-way delay: 31.740 ms  
Loss rate: 7.68%  
-- Flow 1:  
Average throughput: 31.15 Mbit/s  
95th percentile per-packet one-way delay: 26.179 ms  
Loss rate: 4.69%  
-- Flow 2:  
Average throughput: 22.23 Mbit/s  
95th percentile per-packet one-way delay: 32.738 ms  
Loss rate: 10.46%  
-- Flow 3:  
Average throughput: 28.64 Mbit/s  
95th percentile per-packet one-way delay: 32.922 ms  
Loss rate: 12.43%

Run 2: Report of Verus — Data Link

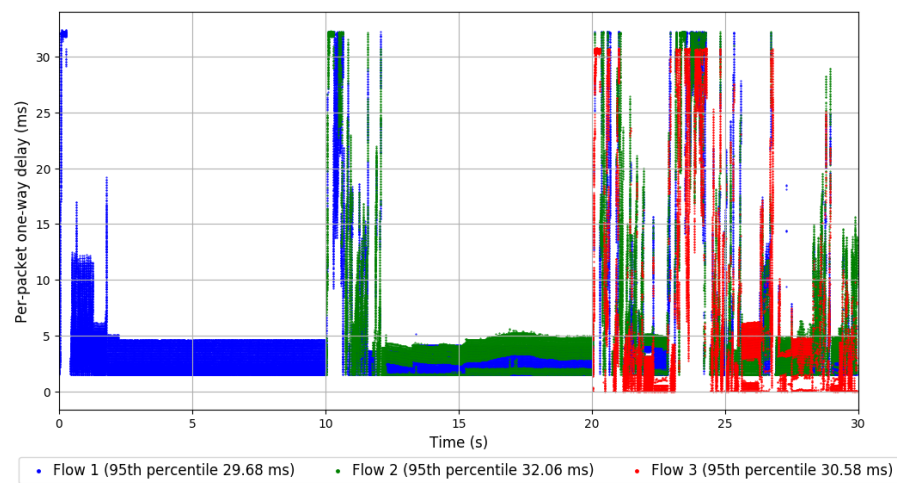
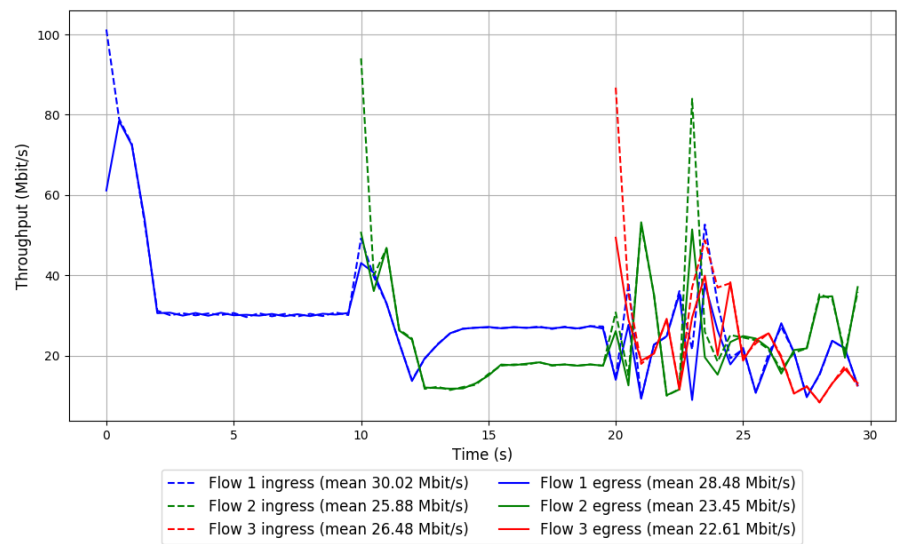


Run 3: Statistics of Verus

Start at: 2018-04-24 20:52:03  
End at: 2018-04-24 20:52:33  
Local clock offset: -4.22 ms  
Remote clock offset: -8.344 ms

# Below is generated by plot.py at 2018-04-25 00:03:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.57 Mbit/s  
95th percentile per-packet one-way delay: 30.649 ms  
Loss rate: 7.94%  
-- Flow 1:  
Average throughput: 28.48 Mbit/s  
95th percentile per-packet one-way delay: 29.682 ms  
Loss rate: 5.16%  
-- Flow 2:  
Average throughput: 23.45 Mbit/s  
95th percentile per-packet one-way delay: 32.064 ms  
Loss rate: 9.39%  
-- Flow 3:  
Average throughput: 22.61 Mbit/s  
95th percentile per-packet one-way delay: 30.584 ms  
Loss rate: 14.62%

Run 3: Report of Verus — Data Link

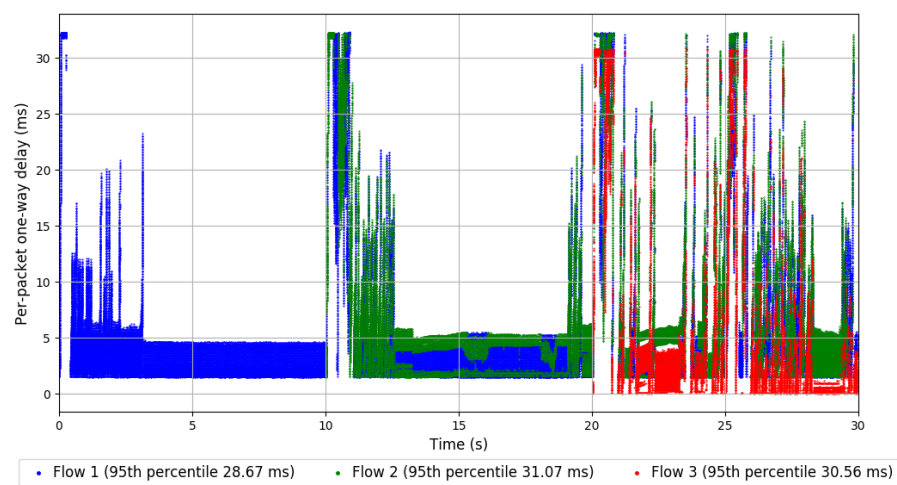
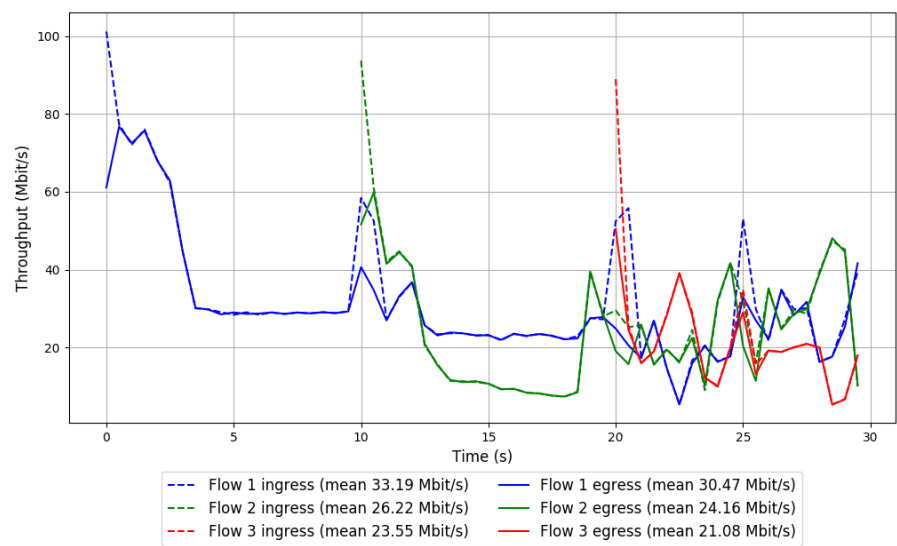


Run 4: Statistics of Verus

Start at: 2018-04-24 21:11:15  
End at: 2018-04-24 21:11:45  
Local clock offset: -4.132 ms  
Remote clock offset: -5.451 ms

# Below is generated by plot.py at 2018-04-25 00:03:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.42 Mbit/s  
95th percentile per-packet one-way delay: 30.285 ms  
Loss rate: 8.34%  
-- Flow 1:  
Average throughput: 30.47 Mbit/s  
95th percentile per-packet one-way delay: 28.667 ms  
Loss rate: 8.17%  
-- Flow 2:  
Average throughput: 24.16 Mbit/s  
95th percentile per-packet one-way delay: 31.073 ms  
Loss rate: 7.71%  
-- Flow 3:  
Average throughput: 21.08 Mbit/s  
95th percentile per-packet one-way delay: 30.563 ms  
Loss rate: 10.48%

Run 4: Report of Verus — Data Link



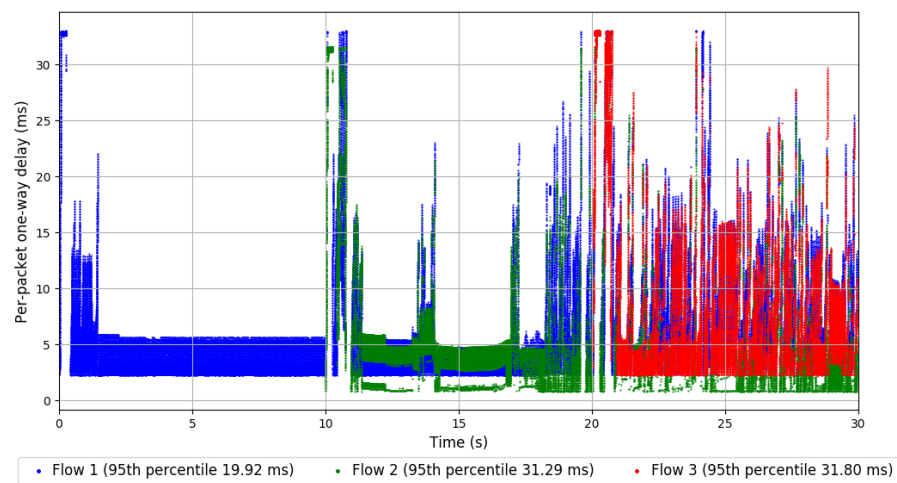
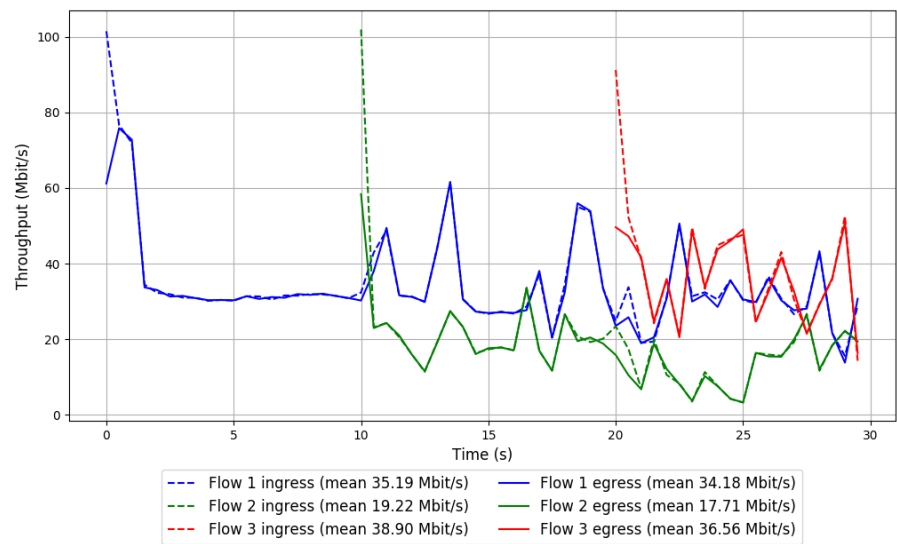


Run 5: Statistics of Verus

Start at: 2018-04-24 21:30:26  
End at: 2018-04-24 21:30:56  
Local clock offset: -4.806 ms  
Remote clock offset: -4.792 ms

# Below is generated by plot.py at 2018-04-25 00:03:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.10 Mbit/s  
95th percentile per-packet one-way delay: 26.282 ms  
Loss rate: 4.53%  
-- Flow 1:  
Average throughput: 34.18 Mbit/s  
95th percentile per-packet one-way delay: 19.919 ms  
Loss rate: 2.82%  
-- Flow 2:  
Average throughput: 17.71 Mbit/s  
95th percentile per-packet one-way delay: 31.285 ms  
Loss rate: 7.83%  
-- Flow 3:  
Average throughput: 36.56 Mbit/s  
95th percentile per-packet one-way delay: 31.805 ms  
Loss rate: 5.93%

Run 5: Report of Verus — Data Link

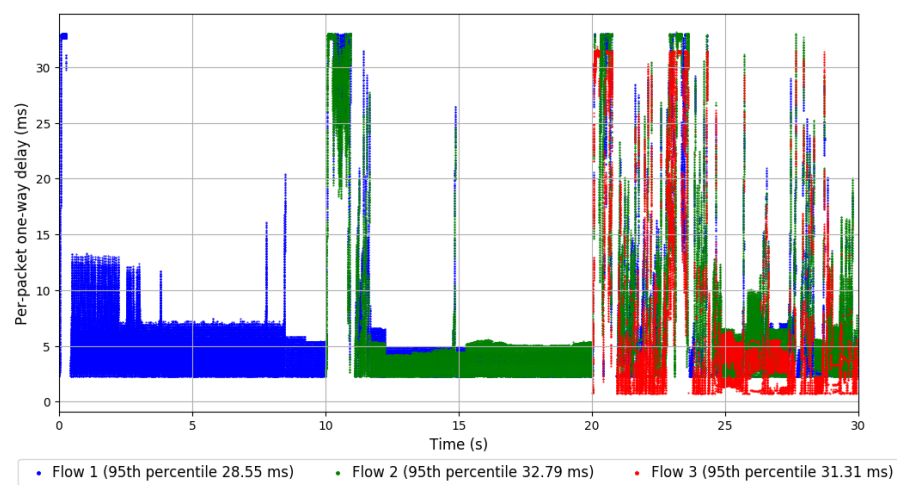
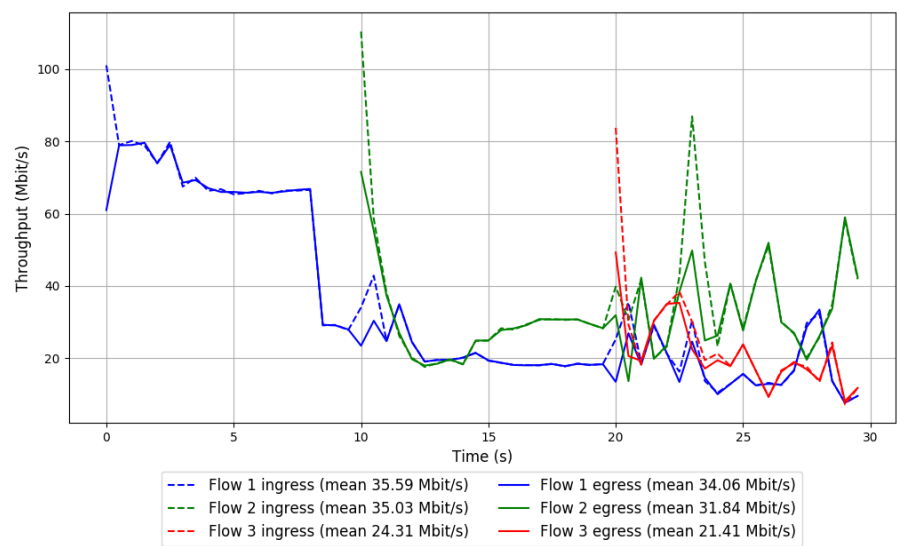


Run 6: Statistics of Verus

Start at: 2018-04-24 21:49:35  
End at: 2018-04-24 21:50:05  
Local clock offset: -5.119 ms  
Remote clock offset: -4.596 ms

# Below is generated by plot.py at 2018-04-25 00:03:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.36 Mbit/s  
95th percentile per-packet one-way delay: 31.305 ms  
Loss rate: 6.88%  
-- Flow 1:  
Average throughput: 34.06 Mbit/s  
95th percentile per-packet one-way delay: 28.549 ms  
Loss rate: 4.30%  
-- Flow 2:  
Average throughput: 31.84 Mbit/s  
95th percentile per-packet one-way delay: 32.786 ms  
Loss rate: 9.09%  
-- Flow 3:  
Average throughput: 21.41 Mbit/s  
95th percentile per-packet one-way delay: 31.309 ms  
Loss rate: 11.88%

Run 6: Report of Verus — Data Link

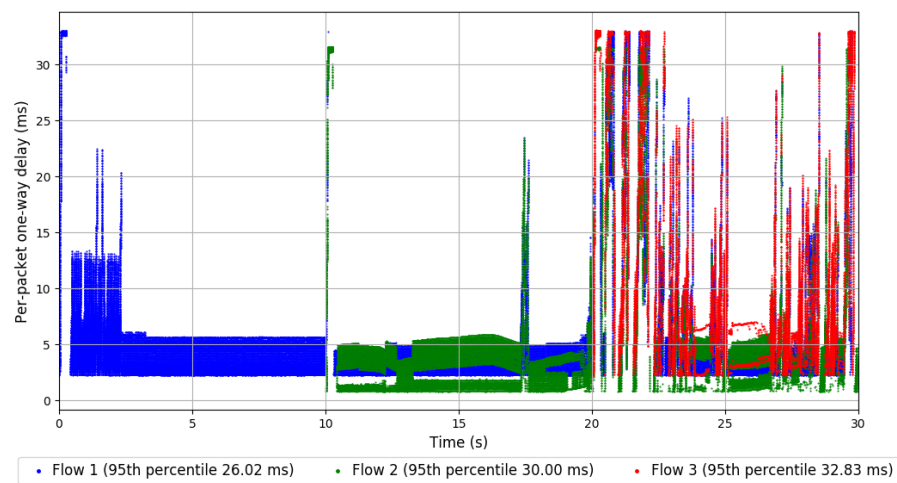
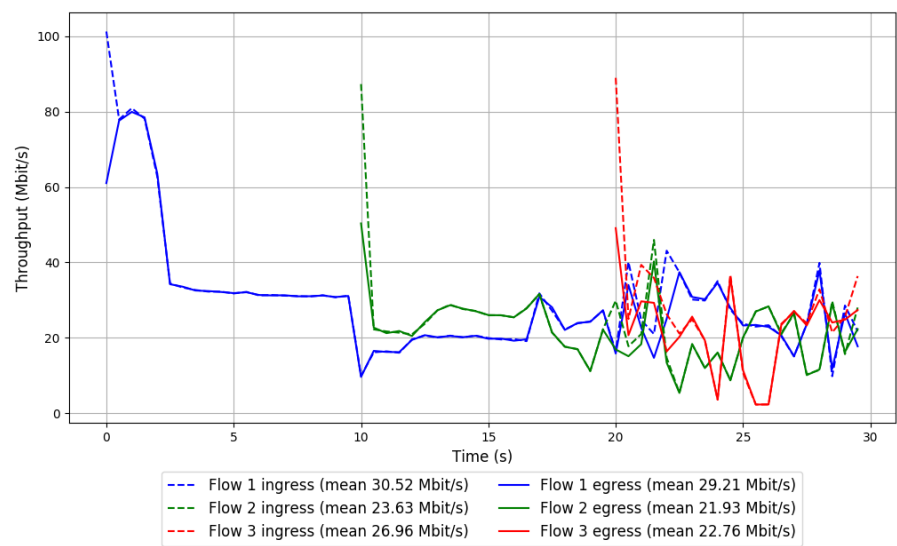


Run 7: Statistics of Verus

Start at: 2018-04-24 22:08:47  
End at: 2018-04-24 22:09:17  
Local clock offset: -5.266 ms  
Remote clock offset: -4.265 ms

# Below is generated by plot.py at 2018-04-25 00:03:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.25 Mbit/s  
95th percentile per-packet one-way delay: 30.438 ms  
Loss rate: 6.90%  
-- Flow 1:  
Average throughput: 29.21 Mbit/s  
95th percentile per-packet one-way delay: 26.019 ms  
Loss rate: 4.31%  
-- Flow 2:  
Average throughput: 21.93 Mbit/s  
95th percentile per-packet one-way delay: 29.996 ms  
Loss rate: 7.19%  
-- Flow 3:  
Average throughput: 22.76 Mbit/s  
95th percentile per-packet one-way delay: 32.829 ms  
Loss rate: 15.38%

Run 7: Report of Verus — Data Link

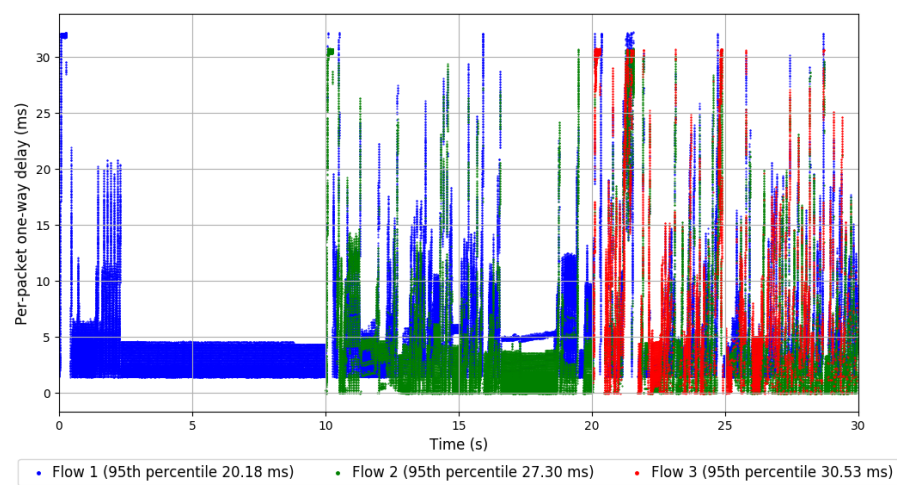
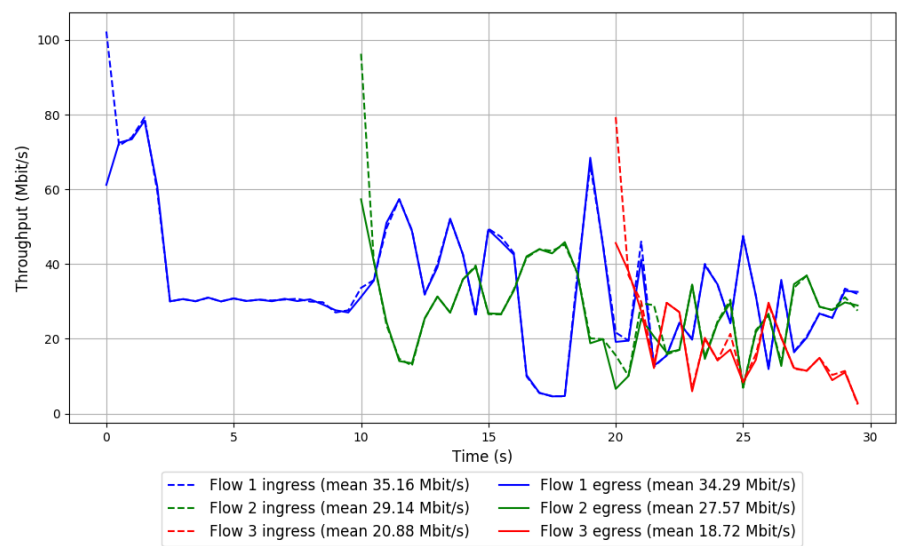


Run 8: Statistics of Verus

Start at: 2018-04-24 22:27:58  
End at: 2018-04-24 22:28:28  
Local clock offset: -4.526 ms  
Remote clock offset: -3.938 ms

# Below is generated by plot.py at 2018-04-25 00:04:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.84 Mbit/s  
95th percentile per-packet one-way delay: 25.836 ms  
Loss rate: 4.28%  
-- Flow 1:  
Average throughput: 34.29 Mbit/s  
95th percentile per-packet one-way delay: 20.182 ms  
Loss rate: 2.47%  
-- Flow 2:  
Average throughput: 27.57 Mbit/s  
95th percentile per-packet one-way delay: 27.300 ms  
Loss rate: 5.37%  
-- Flow 3:  
Average throughput: 18.72 Mbit/s  
95th percentile per-packet one-way delay: 30.533 ms  
Loss rate: 10.40%

Run 8: Report of Verus — Data Link



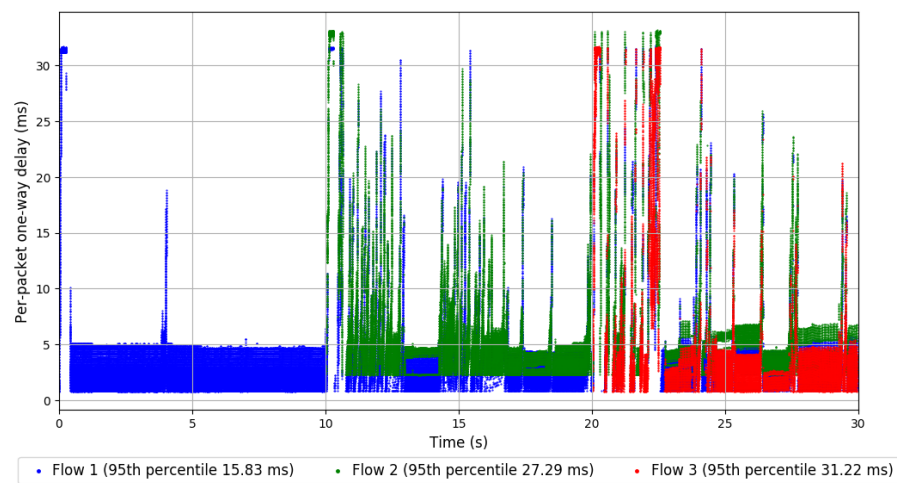
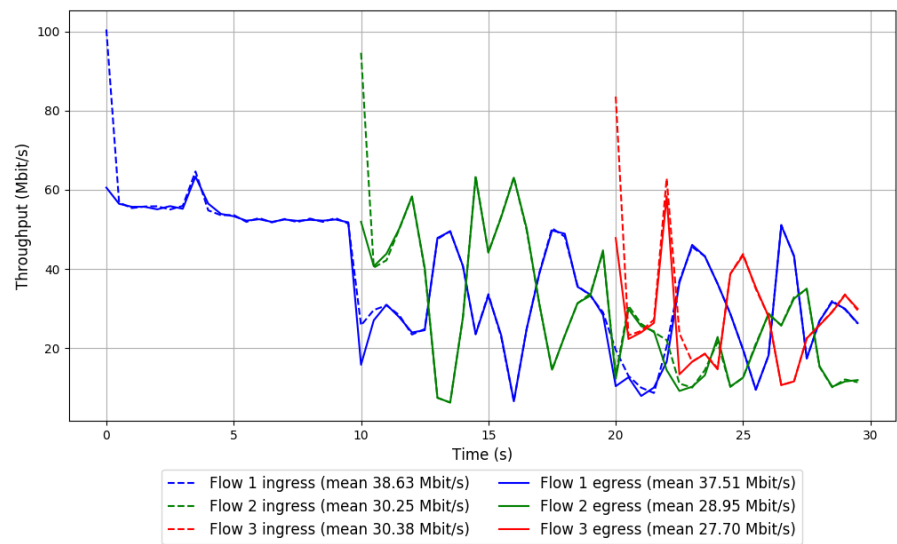


Run 9: Statistics of Verus

Start at: 2018-04-24 22:47:10  
End at: 2018-04-24 22:47:40  
Local clock offset: -5.248 ms  
Remote clock offset: -5.718 ms

# Below is generated by plot.py at 2018-04-25 00:04:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.95 Mbit/s  
95th percentile per-packet one-way delay: 23.146 ms  
Loss rate: 4.17%  
-- Flow 1:  
Average throughput: 37.51 Mbit/s  
95th percentile per-packet one-way delay: 15.826 ms  
Loss rate: 2.90%  
-- Flow 2:  
Average throughput: 28.95 Mbit/s  
95th percentile per-packet one-way delay: 27.294 ms  
Loss rate: 4.28%  
-- Flow 3:  
Average throughput: 27.70 Mbit/s  
95th percentile per-packet one-way delay: 31.217 ms  
Loss rate: 8.81%

Run 9: Report of Verus — Data Link

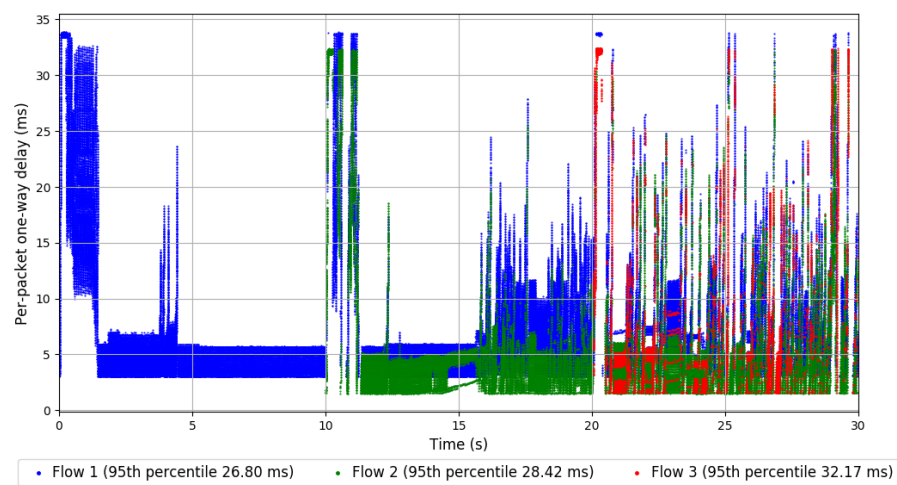
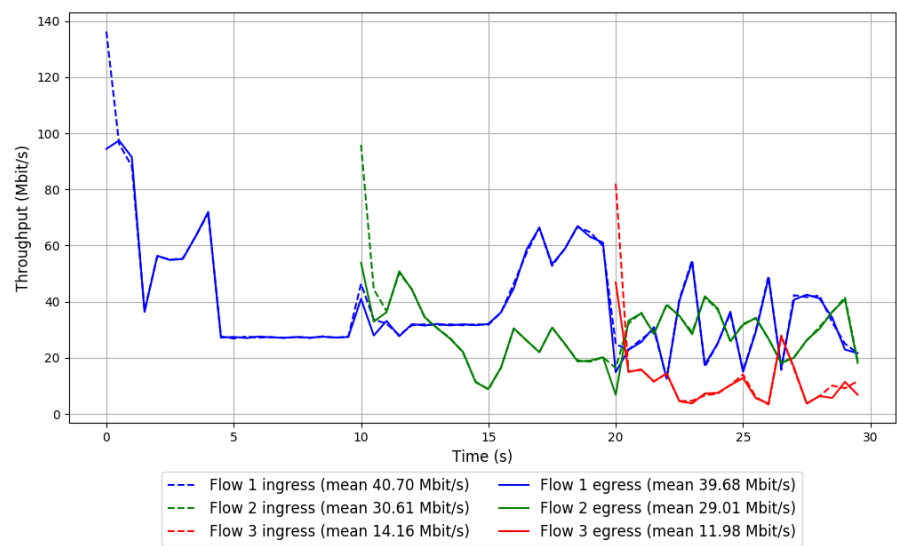


Run 10: Statistics of Verus

Start at: 2018-04-24 23:06:21  
End at: 2018-04-24 23:06:51  
Local clock offset: -5.593 ms  
Remote clock offset: -6.621 ms

# Below is generated by plot.py at 2018-04-25 00:04:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 62.95 Mbit/s  
95th percentile per-packet one-way delay: 29.065 ms  
Loss rate: 4.28%  
-- Flow 1:  
Average throughput: 39.68 Mbit/s  
95th percentile per-packet one-way delay: 26.805 ms  
Loss rate: 2.50%  
-- Flow 2:  
Average throughput: 29.01 Mbit/s  
95th percentile per-packet one-way delay: 28.424 ms  
Loss rate: 5.24%  
-- Flow 3:  
Average throughput: 11.98 Mbit/s  
95th percentile per-packet one-way delay: 32.167 ms  
Loss rate: 15.47%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-24 20:17:01

End at: 2018-04-24 20:17:31

Local clock offset: -5.049 ms

Remote clock offset: -7.53 ms

# Below is generated by plot.py at 2018-04-25 00:05:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.77 Mbit/s

95th percentile per-packet one-way delay: 28.683 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 63.68 Mbit/s

95th percentile per-packet one-way delay: 29.099 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.11 Mbit/s

95th percentile per-packet one-way delay: 28.763 ms

Loss rate: 0.01%

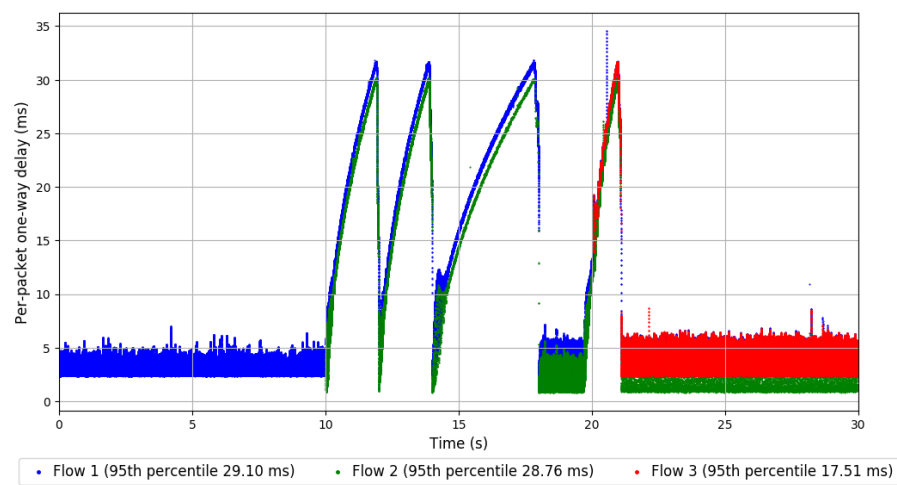
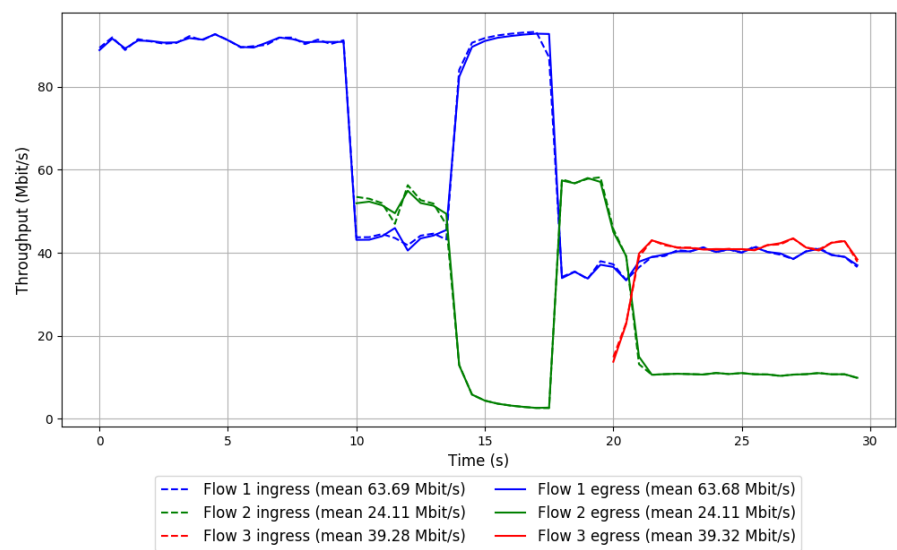
-- Flow 3:

Average throughput: 39.32 Mbit/s

95th percentile per-packet one-way delay: 17.506 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

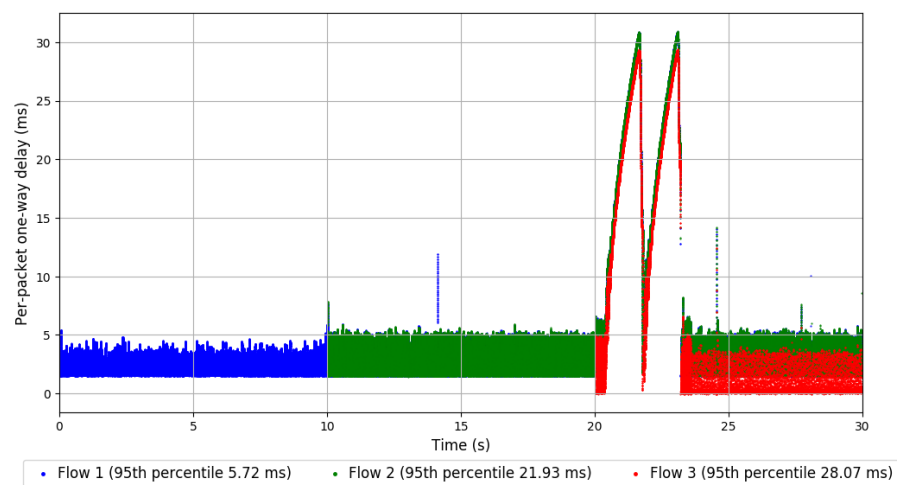
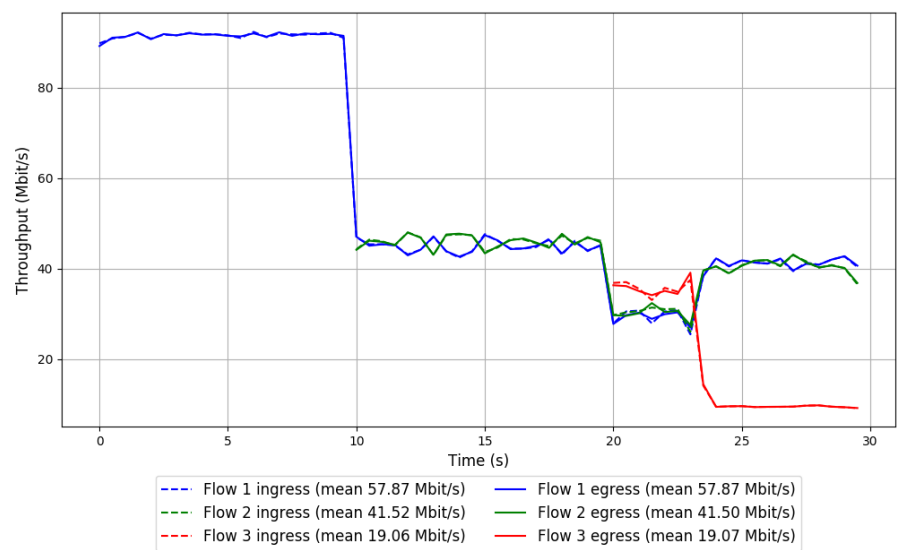


Run 2: Statistics of Copa

Start at: 2018-04-24 20:36:14  
End at: 2018-04-24 20:36:44  
Local clock offset: -4.207 ms  
Remote clock offset: -8.051 ms

# Below is generated by plot.py at 2018-04-25 00:06:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.82 Mbit/s  
95th percentile per-packet one-way delay: 20.981 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.87 Mbit/s  
95th percentile per-packet one-way delay: 5.721 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.50 Mbit/s  
95th percentile per-packet one-way delay: 21.925 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 19.07 Mbit/s  
95th percentile per-packet one-way delay: 28.065 ms  
Loss rate: 0.02%

Run 2: Report of Copa — Data Link





Run 3: Statistics of Copa

Start at: 2018-04-24 20:55:26

End at: 2018-04-24 20:55:56

Local clock offset: -4.249 ms

Remote clock offset: -7.72 ms

# Below is generated by plot.py at 2018-04-25 00:06:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 92.57 Mbit/s

95th percentile per-packet one-way delay: 25.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 49.62 Mbit/s

95th percentile per-packet one-way delay: 18.477 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 40.87 Mbit/s

95th percentile per-packet one-way delay: 22.335 ms

Loss rate: 0.00%

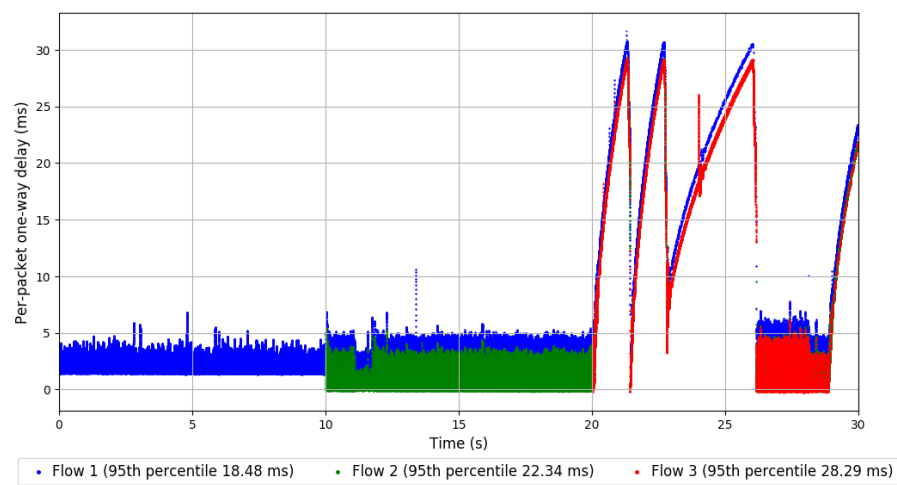
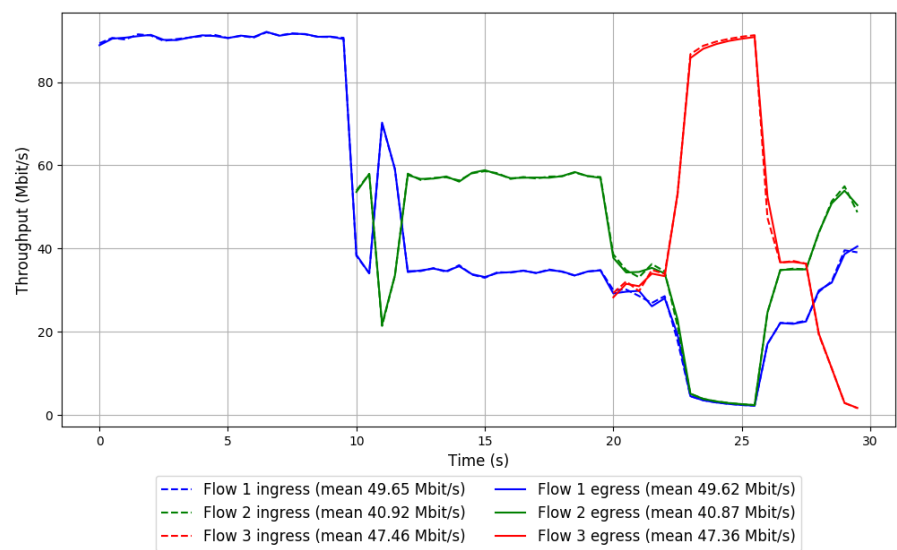
-- Flow 3:

Average throughput: 47.36 Mbit/s

95th percentile per-packet one-way delay: 28.287 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

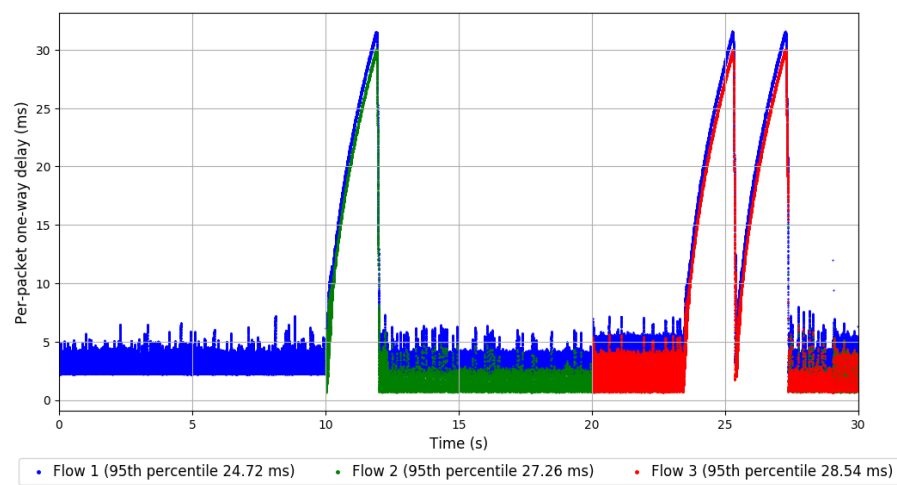
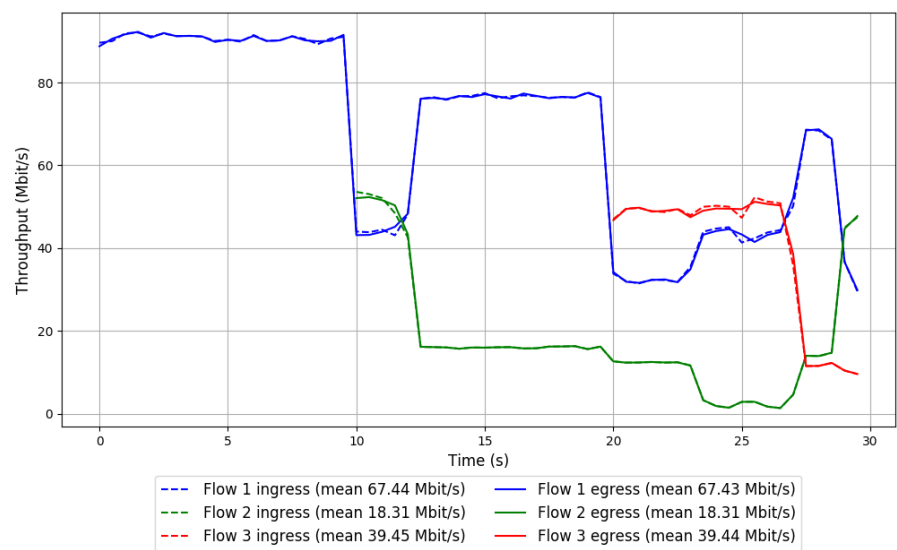


Run 4: Statistics of Copa

Start at: 2018-04-24 21:14:38  
End at: 2018-04-24 21:15:08  
Local clock offset: -4.83 ms  
Remote clock offset: -5.307 ms

# Below is generated by plot.py at 2018-04-25 00:06:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.70 Mbit/s  
95th percentile per-packet one-way delay: 26.690 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 67.43 Mbit/s  
95th percentile per-packet one-way delay: 24.724 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 18.31 Mbit/s  
95th percentile per-packet one-way delay: 27.258 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 39.44 Mbit/s  
95th percentile per-packet one-way delay: 28.539 ms  
Loss rate: 0.01%

Run 4: Report of Copa — Data Link

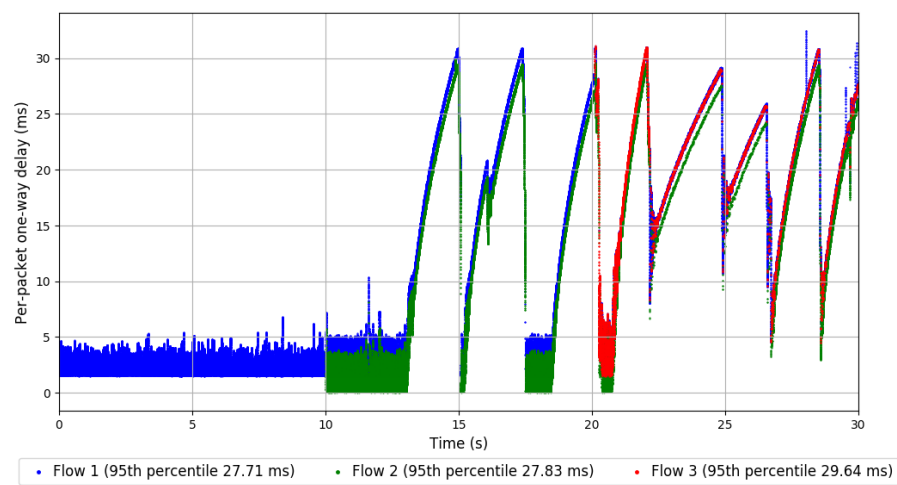
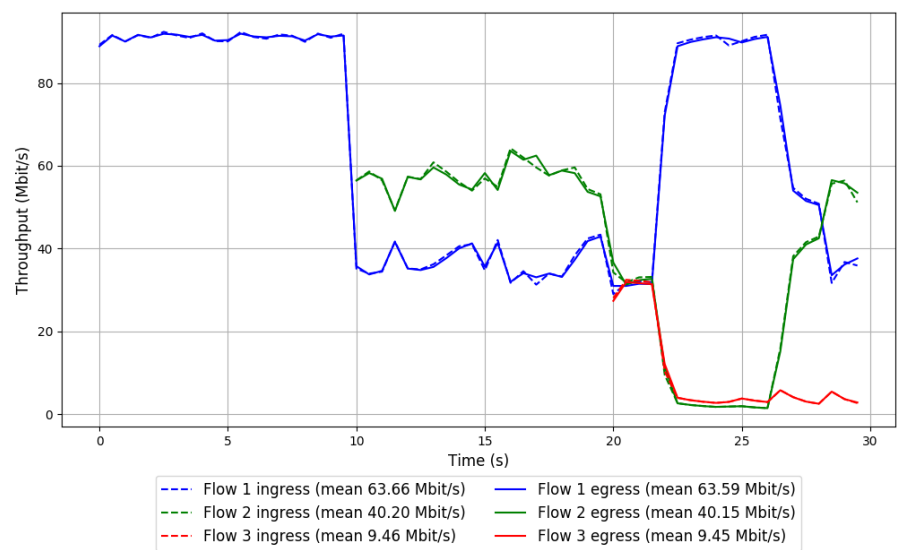


Run 5: Statistics of Copa

Start at: 2018-04-24 21:33:50  
End at: 2018-04-24 21:34:20  
Local clock offset: -4.076 ms  
Remote clock offset: -4.806 ms

```
# Below is generated by plot.py at 2018-04-25 00:06:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.47 Mbit/s
95th percentile per-packet one-way delay: 27.844 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 63.59 Mbit/s
95th percentile per-packet one-way delay: 27.712 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 40.15 Mbit/s
95th percentile per-packet one-way delay: 27.834 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 9.45 Mbit/s
95th percentile per-packet one-way delay: 29.637 ms
Loss rate: 0.19%
```

Run 5: Report of Copa — Data Link

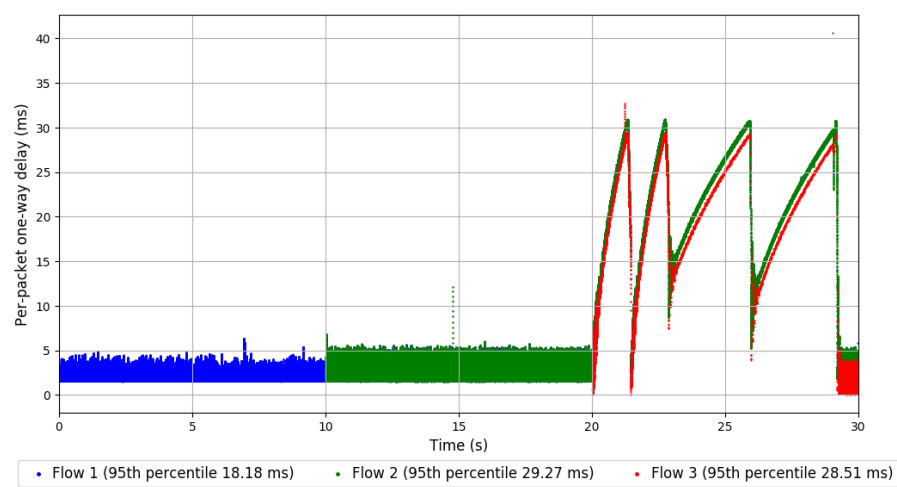
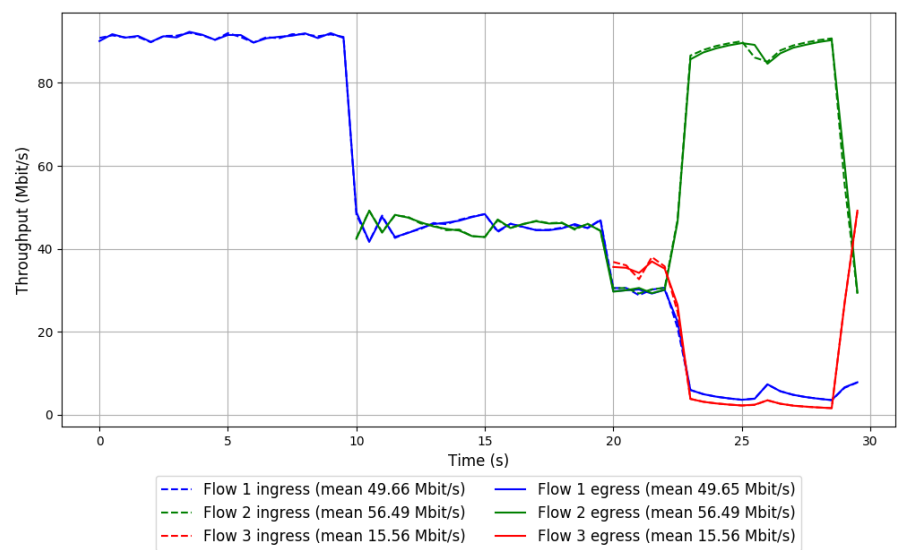


Run 6: Statistics of Copa

Start at: 2018-04-24 21:52:59  
End at: 2018-04-24 21:53:29  
Local clock offset: -4.392 ms  
Remote clock offset: -4.522 ms

# Below is generated by plot.py at 2018-04-25 00:06:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.44 Mbit/s  
95th percentile per-packet one-way delay: 28.177 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 49.65 Mbit/s  
95th percentile per-packet one-way delay: 18.182 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 56.49 Mbit/s  
95th percentile per-packet one-way delay: 29.266 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.56 Mbit/s  
95th percentile per-packet one-way delay: 28.512 ms  
Loss rate: 0.02%

Run 6: Report of Copa — Data Link



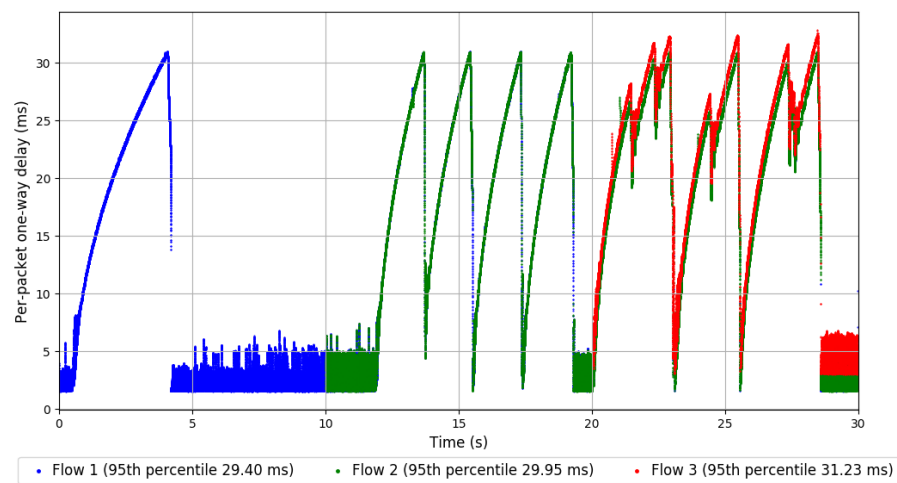
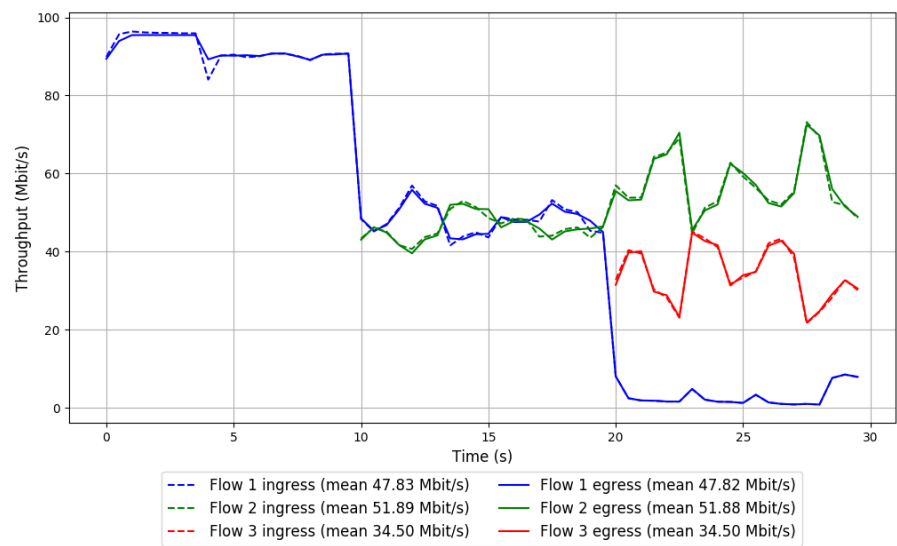


Run 7: Statistics of Copa

Start at: 2018-04-24 22:12:10  
End at: 2018-04-24 22:12:40  
Local clock offset: -6.103 ms  
Remote clock offset: -4.267 ms

# Below is generated by plot.py at 2018-04-25 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.81 Mbit/s  
95th percentile per-packet one-way delay: 29.937 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 47.82 Mbit/s  
95th percentile per-packet one-way delay: 29.401 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 51.88 Mbit/s  
95th percentile per-packet one-way delay: 29.953 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 34.50 Mbit/s  
95th percentile per-packet one-way delay: 31.233 ms  
Loss rate: 0.03%

Run 7: Report of Copa — Data Link

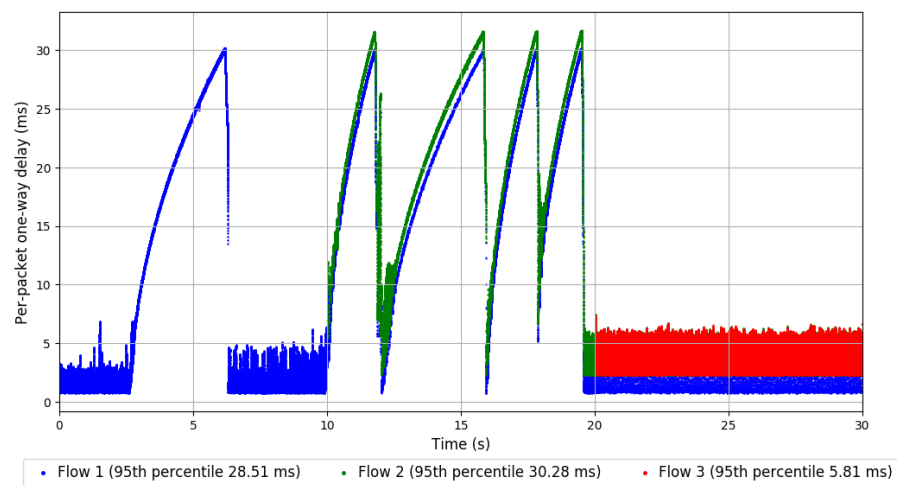
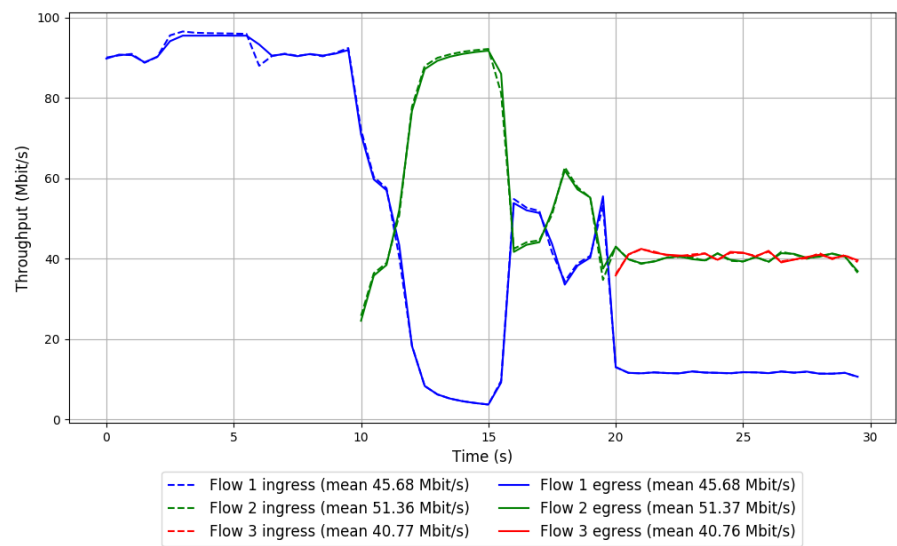


Run 8: Statistics of Copa

Start at: 2018-04-24 22:31:22  
End at: 2018-04-24 22:31:52  
Local clock offset: -5.291 ms  
Remote clock offset: -3.805 ms

# Below is generated by plot.py at 2018-04-25 00:06:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.39 Mbit/s  
95th percentile per-packet one-way delay: 29.096 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 45.68 Mbit/s  
95th percentile per-packet one-way delay: 28.509 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 51.37 Mbit/s  
95th percentile per-packet one-way delay: 30.283 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 40.76 Mbit/s  
95th percentile per-packet one-way delay: 5.811 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

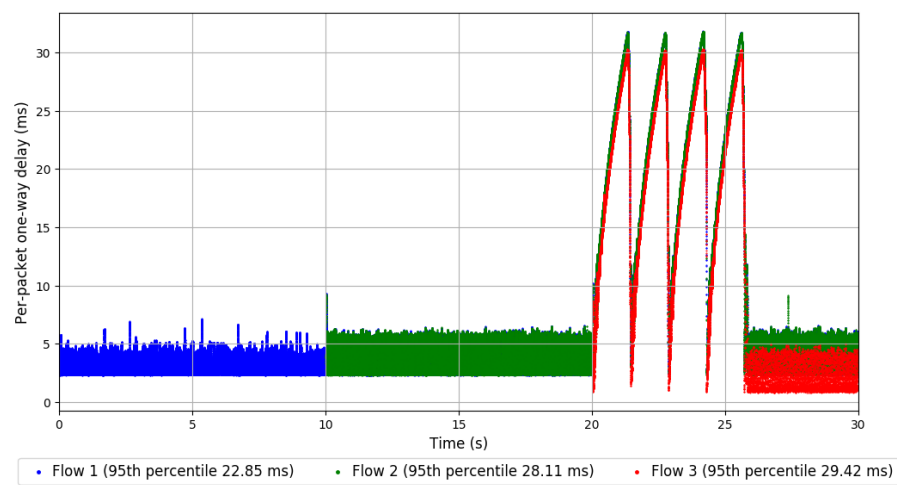
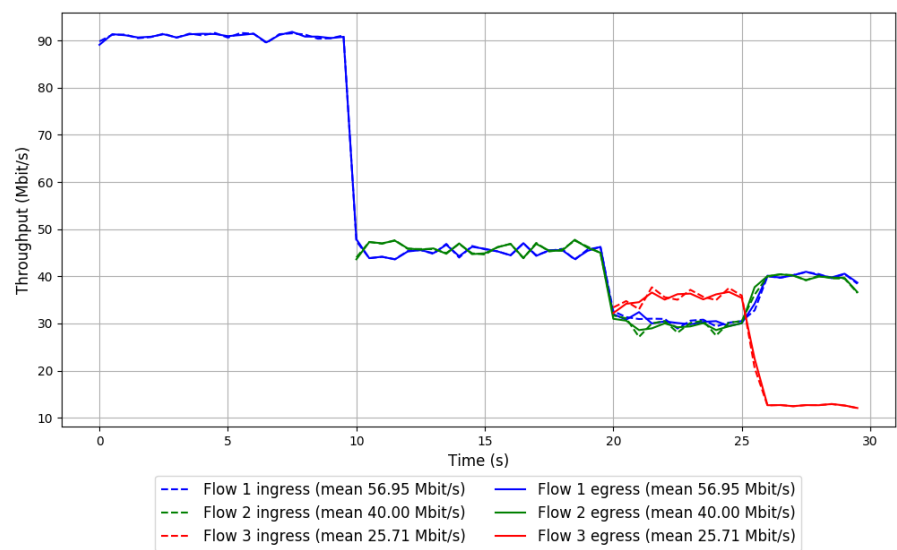


Run 9: Statistics of Copa

Start at: 2018-04-24 22:50:34  
End at: 2018-04-24 22:51:04  
Local clock offset: -5.098 ms  
Remote clock offset: -5.937 ms

# Below is generated by plot.py at 2018-04-25 00:08:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.12 Mbit/s  
95th percentile per-packet one-way delay: 27.091 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.95 Mbit/s  
95th percentile per-packet one-way delay: 22.851 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.00 Mbit/s  
95th percentile per-packet one-way delay: 28.113 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 25.71 Mbit/s  
95th percentile per-packet one-way delay: 29.416 ms  
Loss rate: 0.02%

Run 9: Report of Copa — Data Link

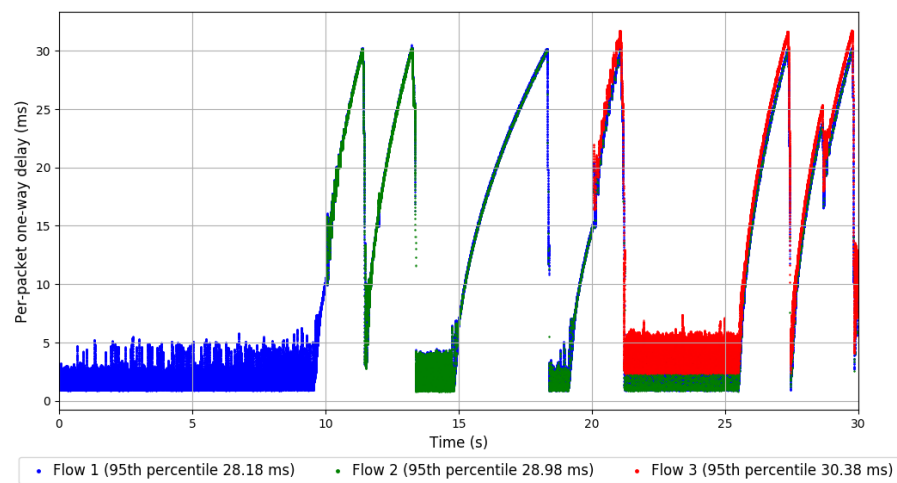
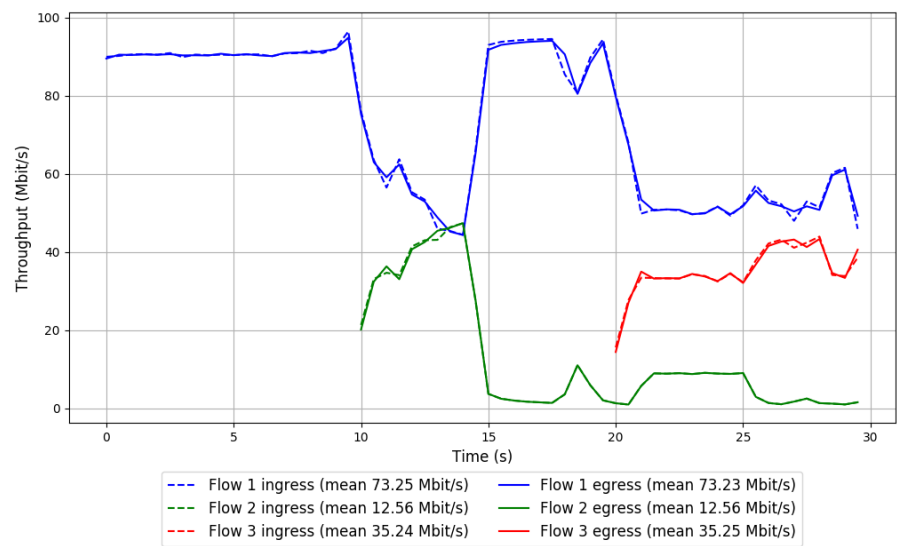


Run 10: Statistics of Copa

Start at: 2018-04-24 23:09:45  
End at: 2018-04-24 23:10:15  
Local clock offset: -4.903 ms  
Remote clock offset: -6.723 ms

# Below is generated by plot.py at 2018-04-25 00:08:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.28 Mbit/s  
95th percentile per-packet one-way delay: 28.658 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 73.23 Mbit/s  
95th percentile per-packet one-way delay: 28.177 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 12.56 Mbit/s  
95th percentile per-packet one-way delay: 28.979 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 35.25 Mbit/s  
95th percentile per-packet one-way delay: 30.376 ms  
Loss rate: 0.01%

Run 10: Report of Copa — Data Link



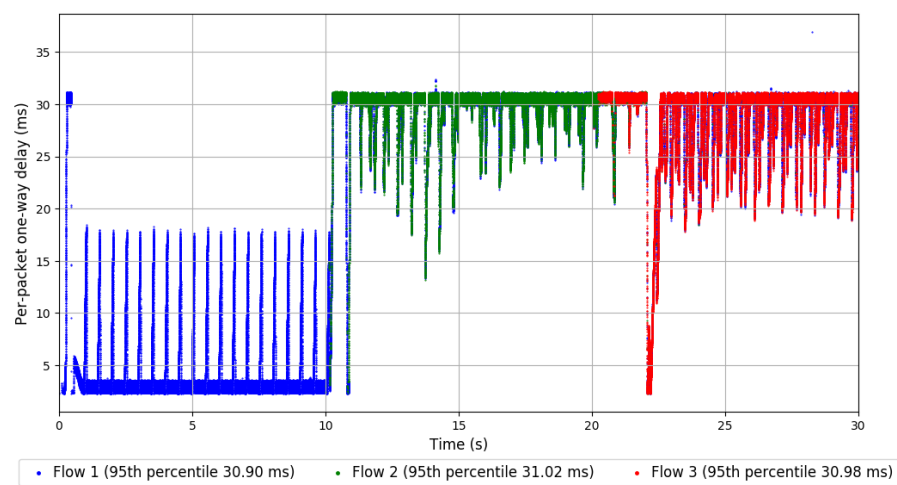
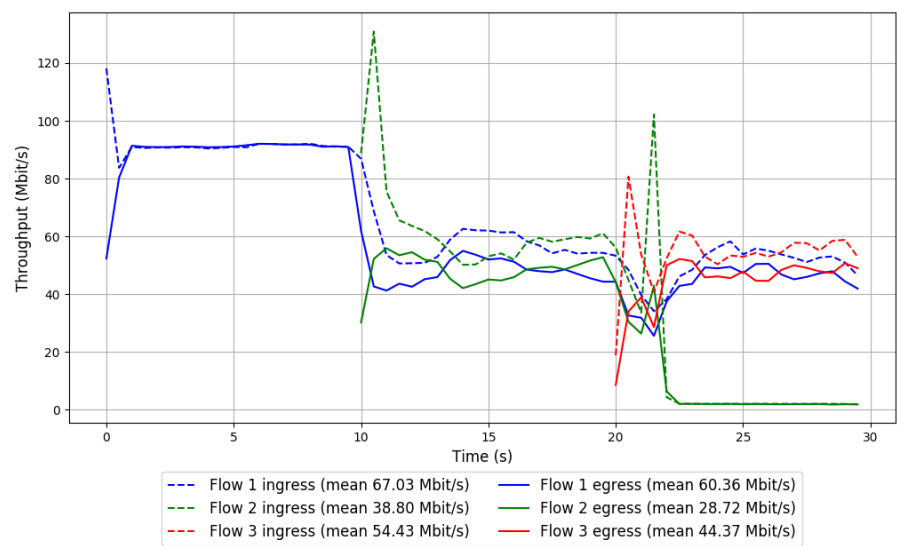


Run 1: Statistics of FillP

Start at: 2018-04-24 20:28:12  
End at: 2018-04-24 20:28:42  
Local clock offset: -5.139 ms  
Remote clock offset: -7.864 ms

# Below is generated by plot.py at 2018-04-25 00:08:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.19 Mbit/s  
95th percentile per-packet one-way delay: 30.955 ms  
Loss rate: 14.99%  
-- Flow 1:  
Average throughput: 60.36 Mbit/s  
95th percentile per-packet one-way delay: 30.903 ms  
Loss rate: 9.85%  
-- Flow 2:  
Average throughput: 28.72 Mbit/s  
95th percentile per-packet one-way delay: 31.015 ms  
Loss rate: 25.88%  
-- Flow 3:  
Average throughput: 44.37 Mbit/s  
95th percentile per-packet one-way delay: 30.983 ms  
Loss rate: 18.47%

Run 1: Report of FillP — Data Link

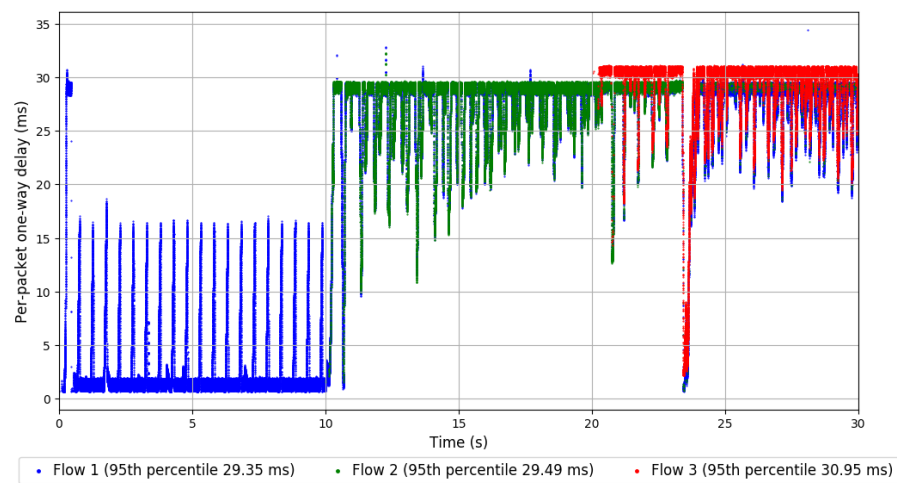
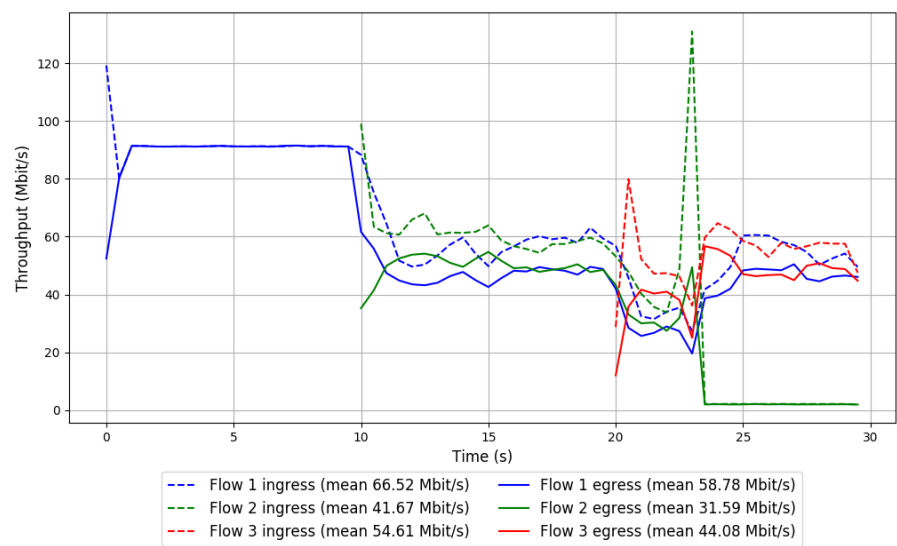


Run 2: Statistics of FillP

Start at: 2018-04-24 20:47:25  
End at: 2018-04-24 20:47:55  
Local clock offset: -4.948 ms  
Remote clock offset: -8.292 ms

# Below is generated by plot.py at 2018-04-25 00:08:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.41 Mbit/s  
95th percentile per-packet one-way delay: 30.645 ms  
Loss rate: 15.89%  
-- Flow 1:  
Average throughput: 58.78 Mbit/s  
95th percentile per-packet one-way delay: 29.346 ms  
Loss rate: 11.55%  
-- Flow 2:  
Average throughput: 31.59 Mbit/s  
95th percentile per-packet one-way delay: 29.488 ms  
Loss rate: 24.09%  
-- Flow 3:  
Average throughput: 44.08 Mbit/s  
95th percentile per-packet one-way delay: 30.947 ms  
Loss rate: 19.29%

Run 2: Report of FillP — Data Link

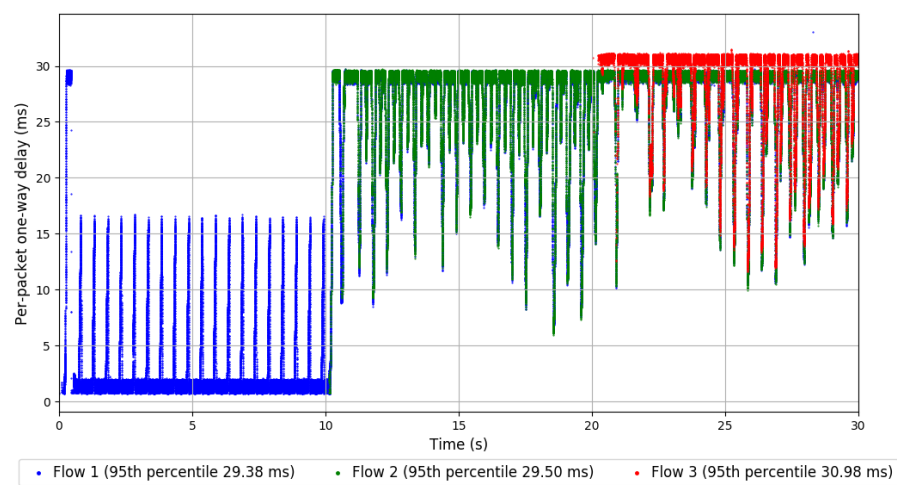
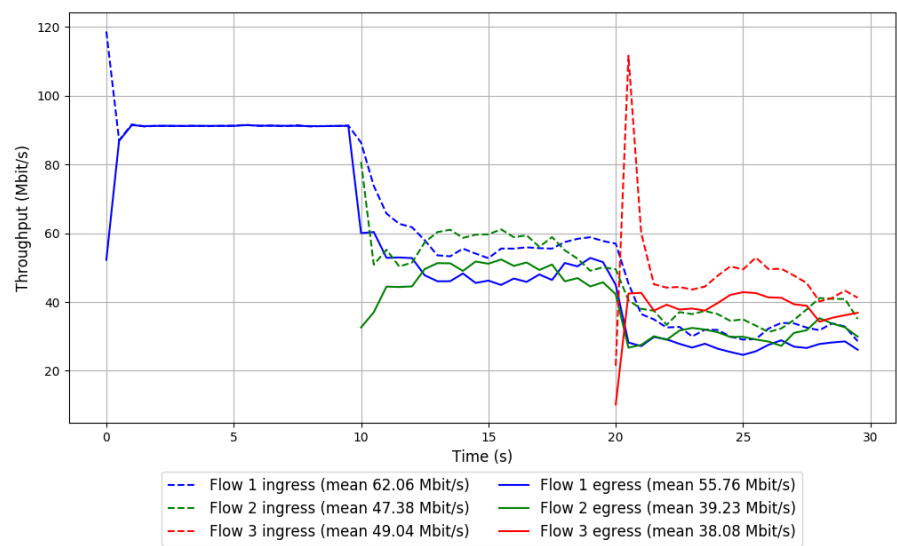


Run 3: Statistics of FillP

Start at: 2018-04-24 21:06:37  
End at: 2018-04-24 21:07:07  
Local clock offset: -4.946 ms  
Remote clock offset: -5.802 ms

# Below is generated by plot.py at 2018-04-25 00:08:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 30.684 ms  
Loss rate: 13.90%  
-- Flow 1:  
Average throughput: 55.76 Mbit/s  
95th percentile per-packet one-way delay: 29.379 ms  
Loss rate: 10.06%  
-- Flow 2:  
Average throughput: 39.23 Mbit/s  
95th percentile per-packet one-way delay: 29.502 ms  
Loss rate: 17.09%  
-- Flow 3:  
Average throughput: 38.08 Mbit/s  
95th percentile per-packet one-way delay: 30.975 ms  
Loss rate: 22.35%

Run 3: Report of FillP — Data Link

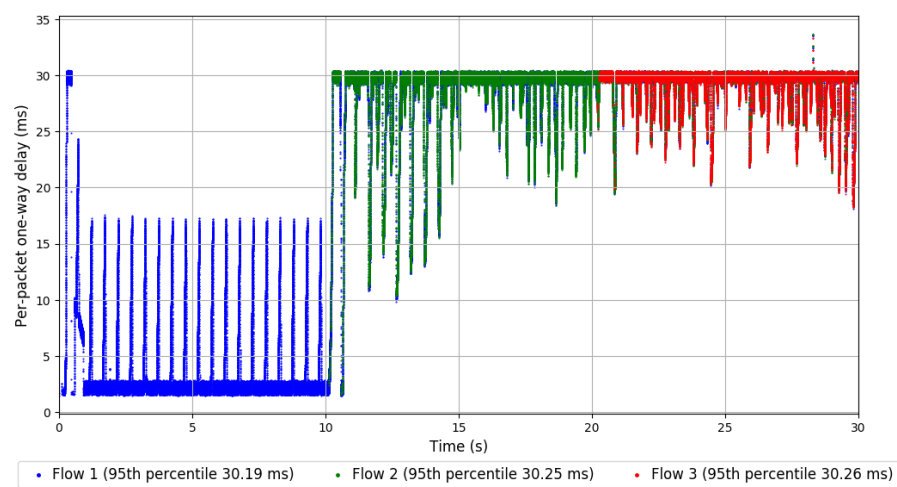
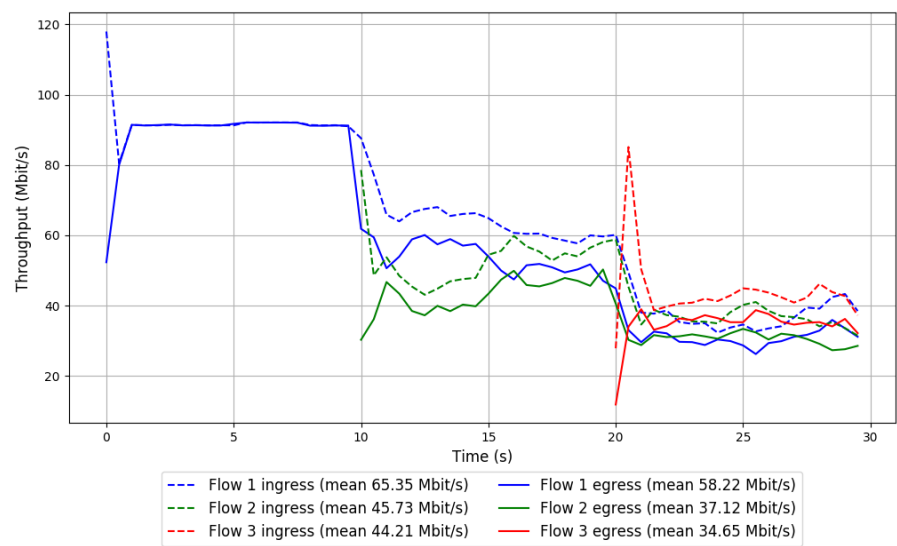


Run 4: Statistics of FillP

Start at: 2018-04-24 21:25:49  
End at: 2018-04-24 21:26:19  
Local clock offset: -4.078 ms  
Remote clock offset: -4.797 ms

# Below is generated by plot.py at 2018-04-25 00:08:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.42 Mbit/s  
95th percentile per-packet one-way delay: 30.228 ms  
Loss rate: 14.43%  
-- Flow 1:  
Average throughput: 58.22 Mbit/s  
95th percentile per-packet one-way delay: 30.190 ms  
Loss rate: 10.82%  
-- Flow 2:  
Average throughput: 37.12 Mbit/s  
95th percentile per-packet one-way delay: 30.255 ms  
Loss rate: 18.71%  
-- Flow 3:  
Average throughput: 34.65 Mbit/s  
95th percentile per-packet one-way delay: 30.263 ms  
Loss rate: 21.64%

Run 4: Report of FillP — Data Link



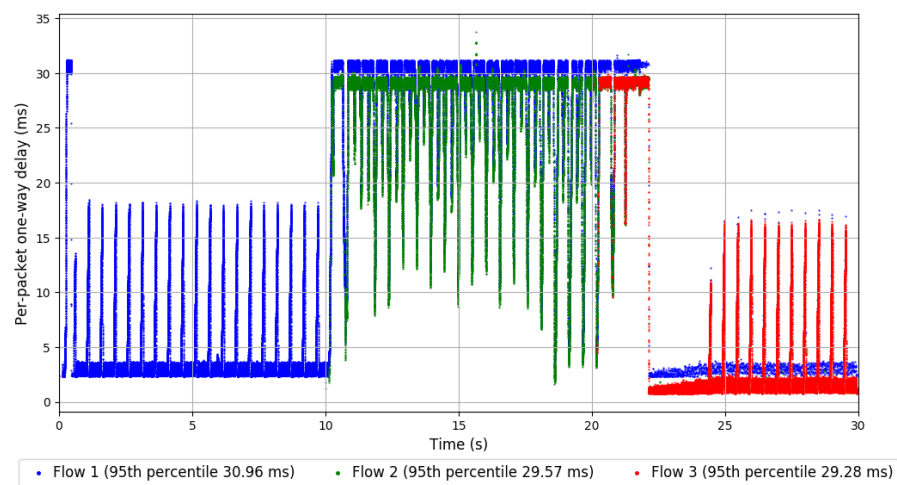
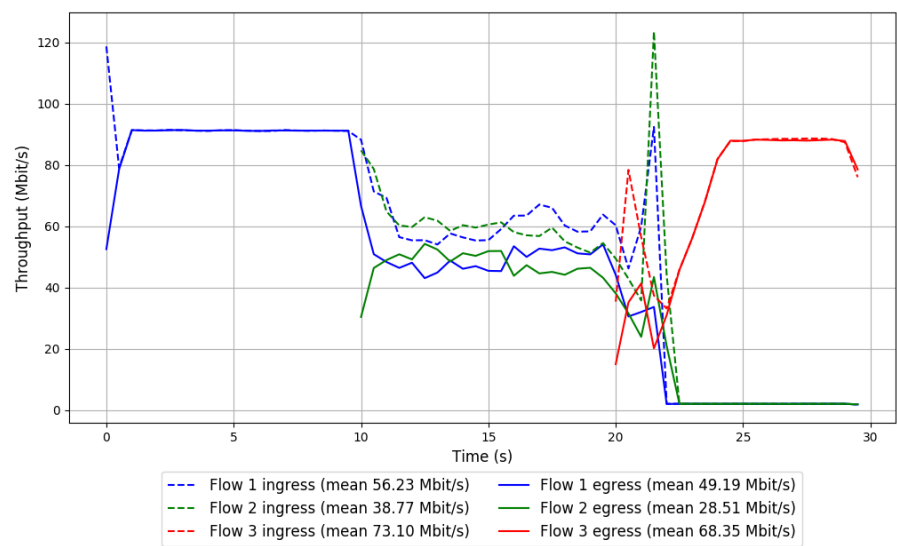


Run 5: Statistics of FillP

Start at: 2018-04-24 21:45:00  
End at: 2018-04-24 21:45:30  
Local clock offset: -5.095 ms  
Remote clock offset: -4.678 ms

# Below is generated by plot.py at 2018-04-25 00:08:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 30.854 ms  
Loss rate: 14.59%  
-- Flow 1:  
Average throughput: 49.19 Mbit/s  
95th percentile per-packet one-way delay: 30.958 ms  
Loss rate: 12.51%  
-- Flow 2:  
Average throughput: 28.51 Mbit/s  
95th percentile per-packet one-way delay: 29.567 ms  
Loss rate: 26.47%  
-- Flow 3:  
Average throughput: 68.35 Mbit/s  
95th percentile per-packet one-way delay: 29.284 ms  
Loss rate: 6.75%

Run 5: Report of FillP — Data Link

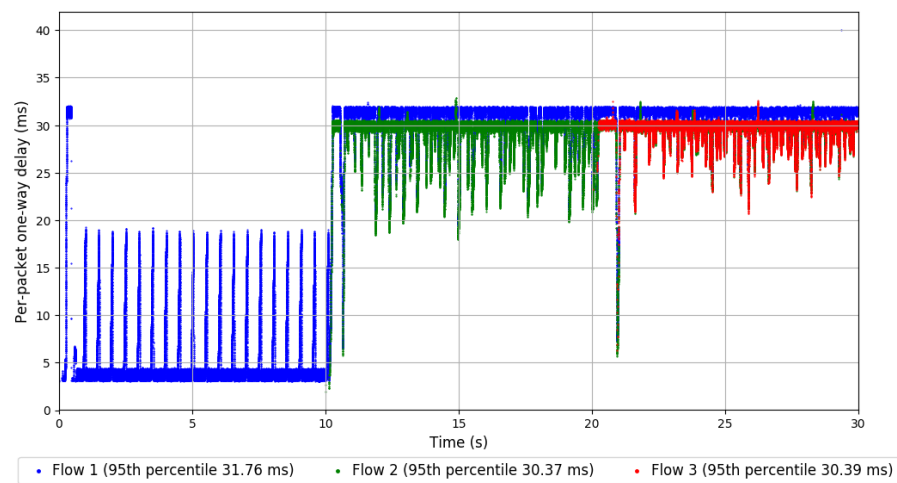
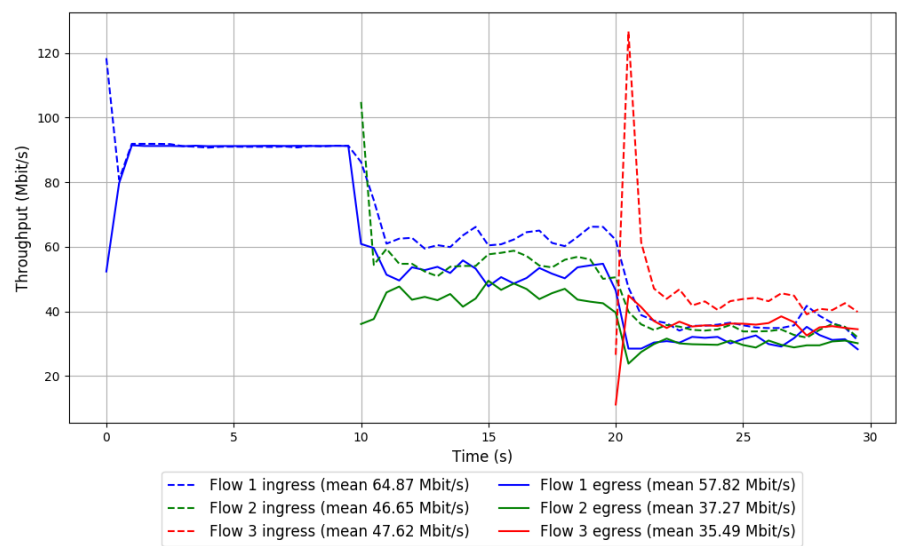


Run 6: Statistics of FillP

Start at: 2018-04-24 22:04:09  
End at: 2018-04-24 22:04:40  
Local clock offset: -6.07 ms  
Remote clock offset: -4.341 ms

# Below is generated by plot.py at 2018-04-25 00:08:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.40 Mbit/s  
95th percentile per-packet one-way delay: 31.682 ms  
Loss rate: 15.41%  
-- Flow 1:  
Average throughput: 57.82 Mbit/s  
95th percentile per-packet one-way delay: 31.757 ms  
Loss rate: 10.79%  
-- Flow 2:  
Average throughput: 37.27 Mbit/s  
95th percentile per-packet one-way delay: 30.373 ms  
Loss rate: 19.99%  
-- Flow 3:  
Average throughput: 35.49 Mbit/s  
95th percentile per-packet one-way delay: 30.387 ms  
Loss rate: 25.43%

Run 6: Report of FillP — Data Link

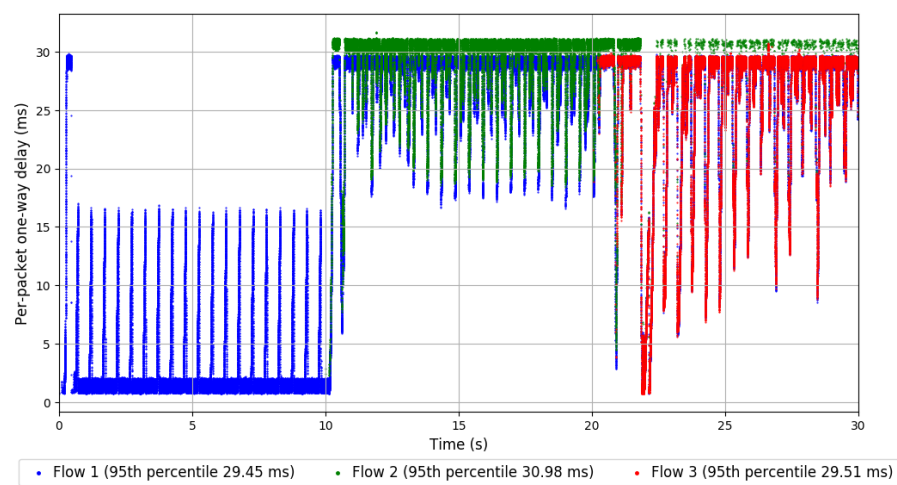
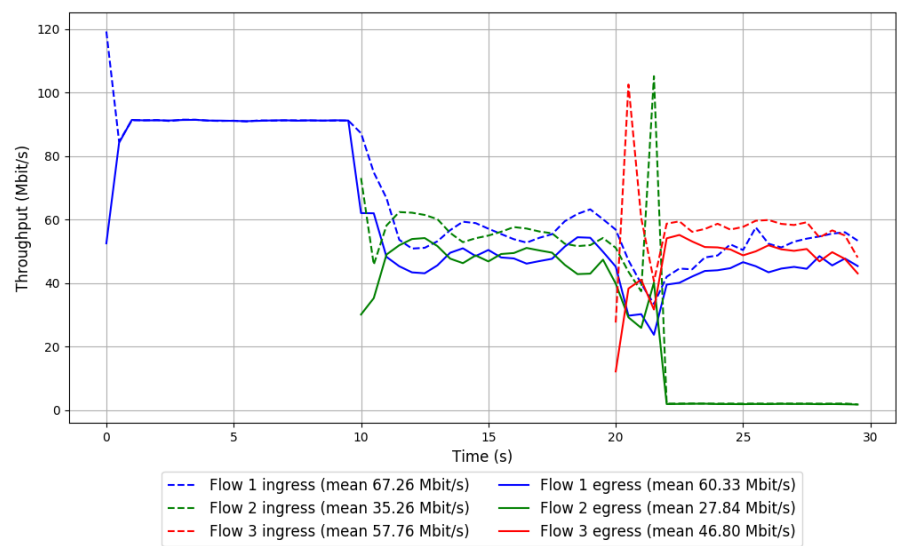


Run 7: Statistics of FillP

Start at: 2018-04-24 22:23:21  
End at: 2018-04-24 22:23:51  
Local clock offset: -5.256 ms  
Remote clock offset: -3.966 ms

# Below is generated by plot.py at 2018-04-25 00:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.37 Mbit/s  
95th percentile per-packet one-way delay: 30.756 ms  
Loss rate: 14.04%  
-- Flow 1:  
Average throughput: 60.33 Mbit/s  
95th percentile per-packet one-way delay: 29.448 ms  
Loss rate: 10.24%  
-- Flow 2:  
Average throughput: 27.84 Mbit/s  
95th percentile per-packet one-way delay: 30.985 ms  
Loss rate: 20.93%  
-- Flow 3:  
Average throughput: 46.80 Mbit/s  
95th percentile per-packet one-way delay: 29.511 ms  
Loss rate: 18.95%

Run 7: Report of FillP — Data Link

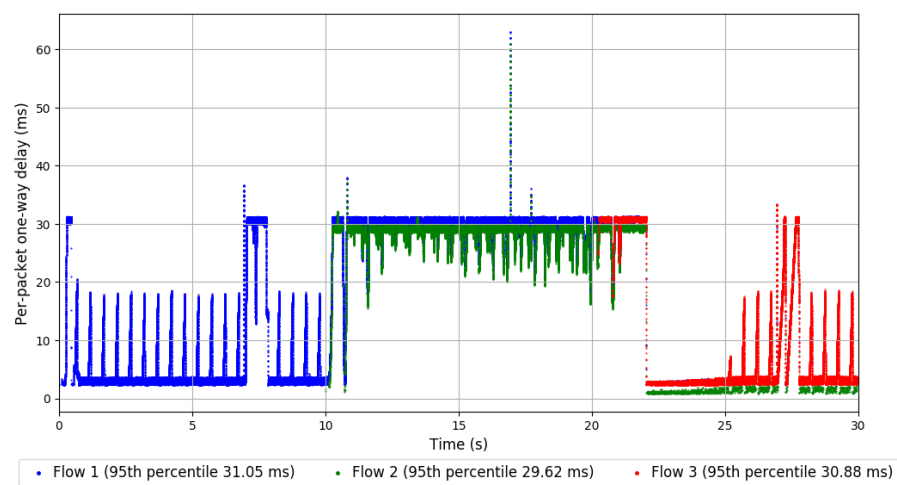
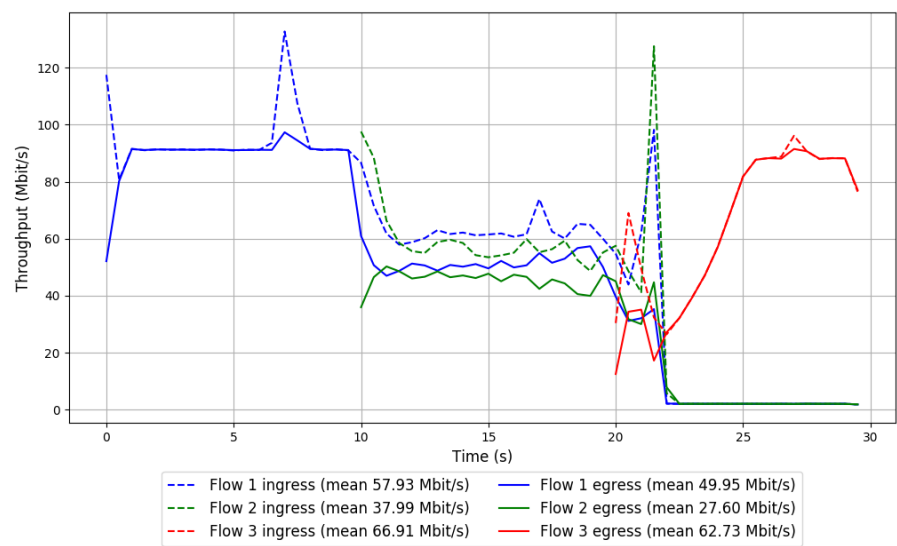


Run 8: Statistics of FillP

Start at: 2018-04-24 22:42:33  
End at: 2018-04-24 22:43:03  
Local clock offset: -5.309 ms  
Remote clock offset: -5.144 ms

# Below is generated by plot.py at 2018-04-25 00:09:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.04 Mbit/s  
95th percentile per-packet one-way delay: 30.978 ms  
Loss rate: 15.51%  
-- Flow 1:  
Average throughput: 49.95 Mbit/s  
95th percentile per-packet one-way delay: 31.045 ms  
Loss rate: 13.77%  
-- Flow 2:  
Average throughput: 27.60 Mbit/s  
95th percentile per-packet one-way delay: 29.624 ms  
Loss rate: 27.36%  
-- Flow 3:  
Average throughput: 62.73 Mbit/s  
95th percentile per-packet one-way delay: 30.884 ms  
Loss rate: 6.51%

Run 8: Report of FillP — Data Link



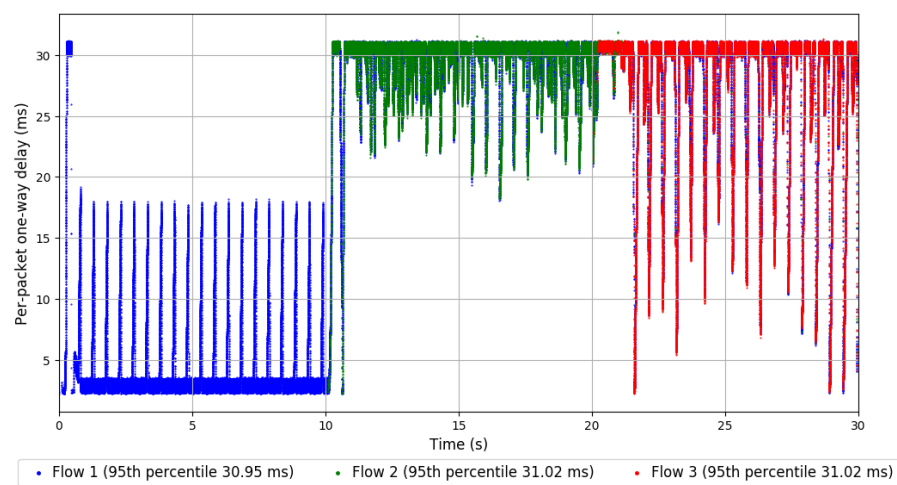
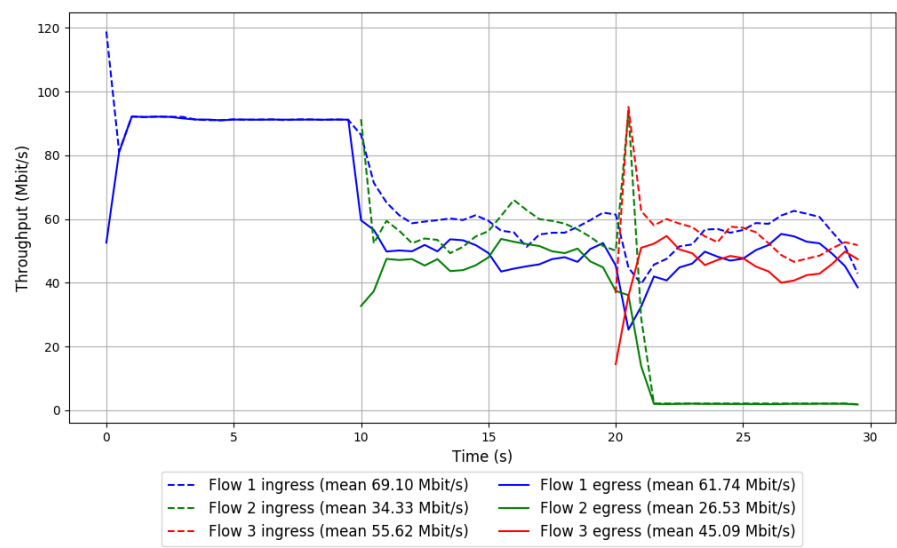


Run 9: Statistics of FillP

Start at: 2018-04-24 23:01:44  
End at: 2018-04-24 23:02:14  
Local clock offset: -4.872 ms  
Remote clock offset: -6.487 ms

# Below is generated by plot.py at 2018-04-25 00:09:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.34 Mbit/s  
95th percentile per-packet one-way delay: 30.985 ms  
Loss rate: 14.55%  
-- Flow 1:  
Average throughput: 61.74 Mbit/s  
95th percentile per-packet one-way delay: 30.946 ms  
Loss rate: 10.65%  
-- Flow 2:  
Average throughput: 26.53 Mbit/s  
95th percentile per-packet one-way delay: 31.020 ms  
Loss rate: 22.69%  
-- Flow 3:  
Average throughput: 45.09 Mbit/s  
95th percentile per-packet one-way delay: 31.019 ms  
Loss rate: 19.08%

Run 9: Report of FillP — Data Link

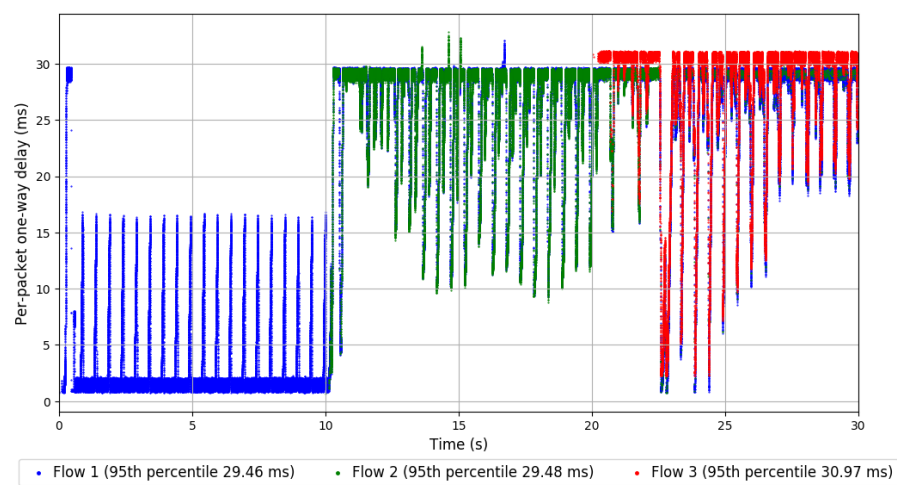
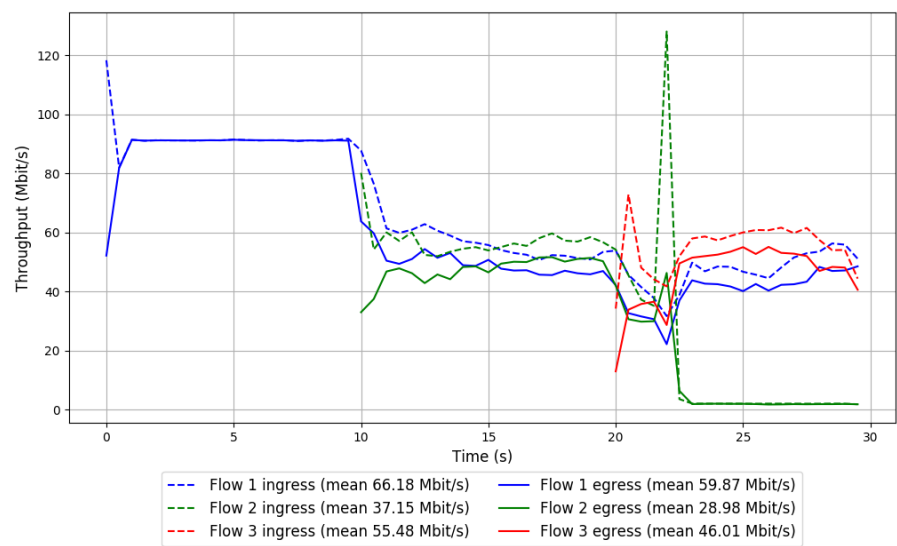


Run 10: Statistics of FillP

Start at: 2018-04-24 23:20:56  
End at: 2018-04-24 23:21:26  
Local clock offset: -4.77 ms  
Remote clock offset: -6.685 ms

# Below is generated by plot.py at 2018-04-25 00:09:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.39 Mbit/s  
95th percentile per-packet one-way delay: 30.646 ms  
Loss rate: 13.56%  
-- Flow 1:  
Average throughput: 59.87 Mbit/s  
95th percentile per-packet one-way delay: 29.459 ms  
Loss rate: 9.46%  
-- Flow 2:  
Average throughput: 28.98 Mbit/s  
95th percentile per-packet one-way delay: 29.481 ms  
Loss rate: 21.90%  
-- Flow 3:  
Average throughput: 46.01 Mbit/s  
95th percentile per-packet one-way delay: 30.968 ms  
Loss rate: 17.12%

Run 10: Report of FillP — Data Link

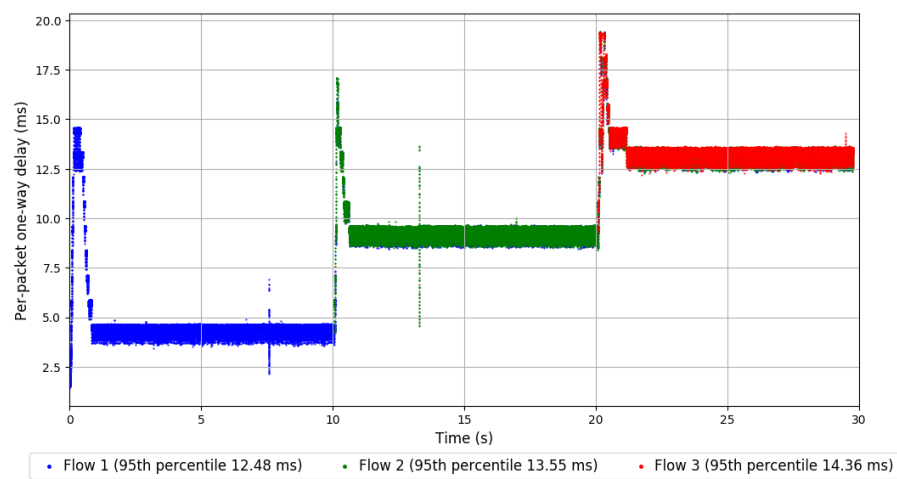
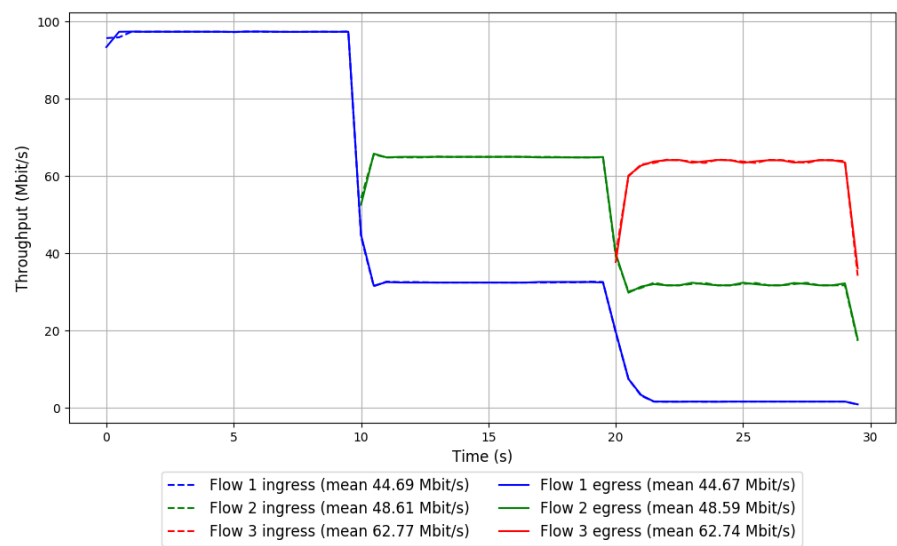


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 20:27:03  
End at: 2018-04-24 20:27:33  
Local clock offset: -4.297 ms  
Remote clock offset: -7.783 ms

# Below is generated by plot.py at 2018-04-25 00:09:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.27 Mbit/s  
95th percentile per-packet one-way delay: 13.557 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.67 Mbit/s  
95th percentile per-packet one-way delay: 12.484 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 48.59 Mbit/s  
95th percentile per-packet one-way delay: 13.546 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 62.74 Mbit/s  
95th percentile per-packet one-way delay: 14.361 ms  
Loss rate: 0.00%

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

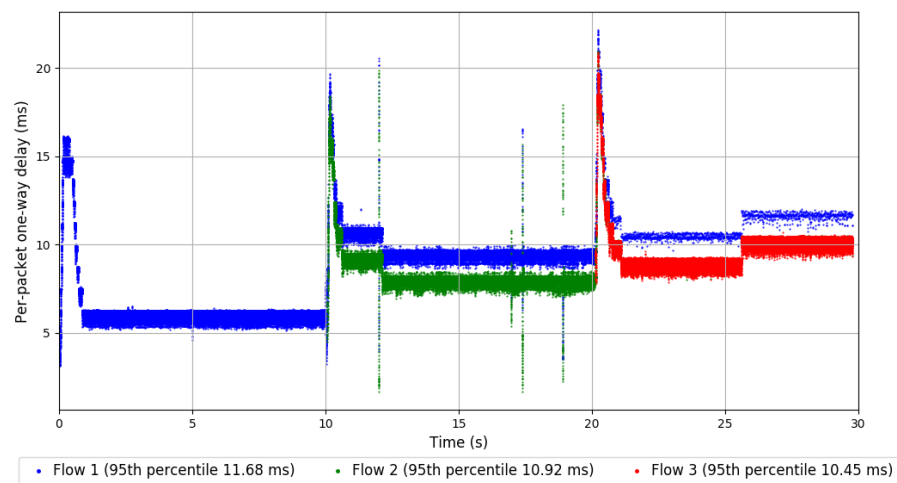
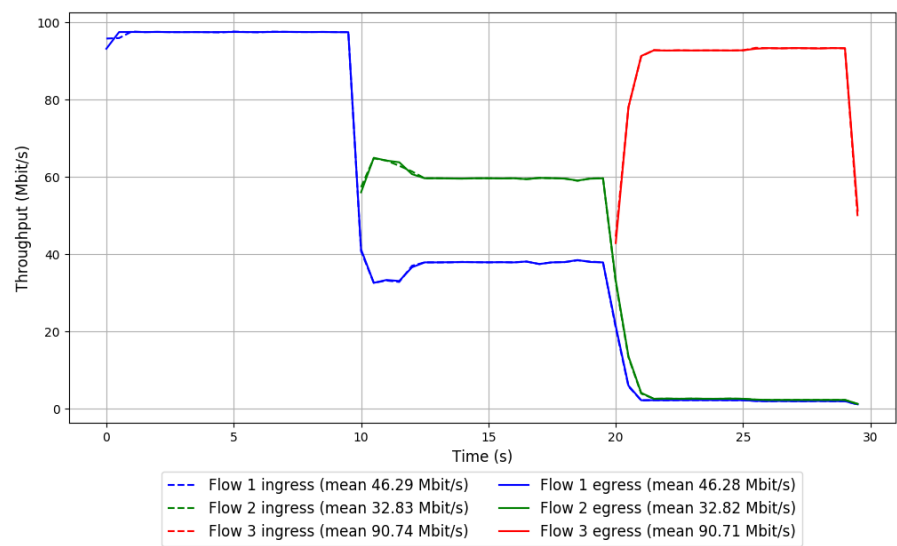


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 20:46:15  
End at: 2018-04-24 20:46:45  
Local clock offset: -5.79 ms  
Remote clock offset: -8.194 ms

# Below is generated by plot.py at 2018-04-25 00:09:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 10.958 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 46.28 Mbit/s  
95th percentile per-packet one-way delay: 11.679 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 32.82 Mbit/s  
95th percentile per-packet one-way delay: 10.918 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 90.71 Mbit/s  
95th percentile per-packet one-way delay: 10.445 ms  
Loss rate: 0.00%

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





Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 21:05:28

End at: 2018-04-24 21:05:58

Local clock offset: -5.0 ms

Remote clock offset: -6.0 ms

# Below is generated by plot.py at 2018-04-25 00:09:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.49 Mbit/s

95th percentile per-packet one-way delay: 12.778 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 47.31 Mbit/s

95th percentile per-packet one-way delay: 10.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.36 Mbit/s

95th percentile per-packet one-way delay: 12.778 ms

Loss rate: 1.87%

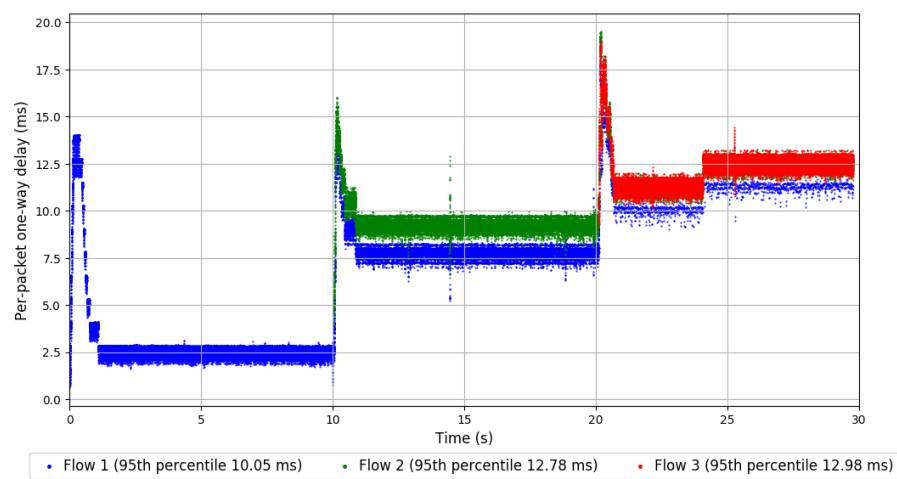
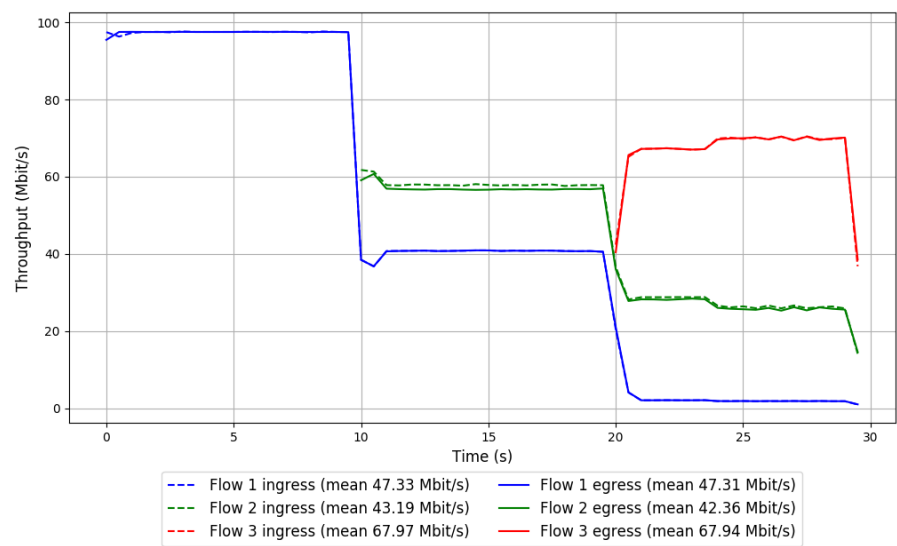
-- Flow 3:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 12.982 ms

Loss rate: 0.00%

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

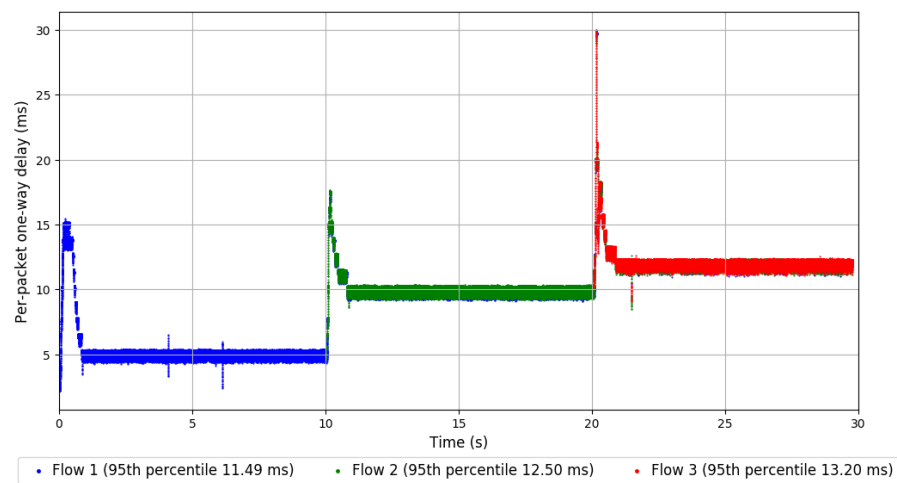
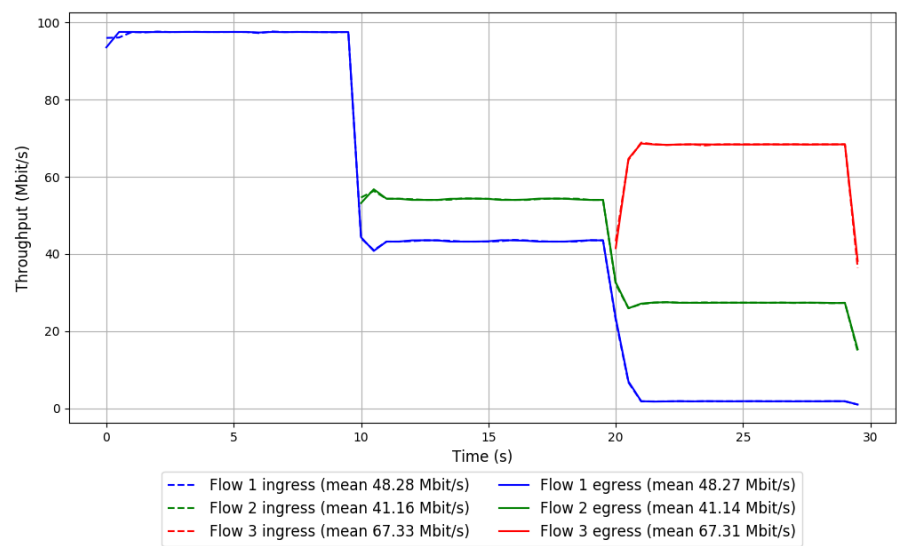


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 21:24:40  
End at: 2018-04-24 21:25:10  
Local clock offset: -4.784 ms  
Remote clock offset: -4.847 ms

# Below is generated by plot.py at 2018-04-25 00:10:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 12.469 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 48.27 Mbit/s  
95th percentile per-packet one-way delay: 11.492 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.14 Mbit/s  
95th percentile per-packet one-way delay: 12.500 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 67.31 Mbit/s  
95th percentile per-packet one-way delay: 13.196 ms  
Loss rate: 0.00%

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

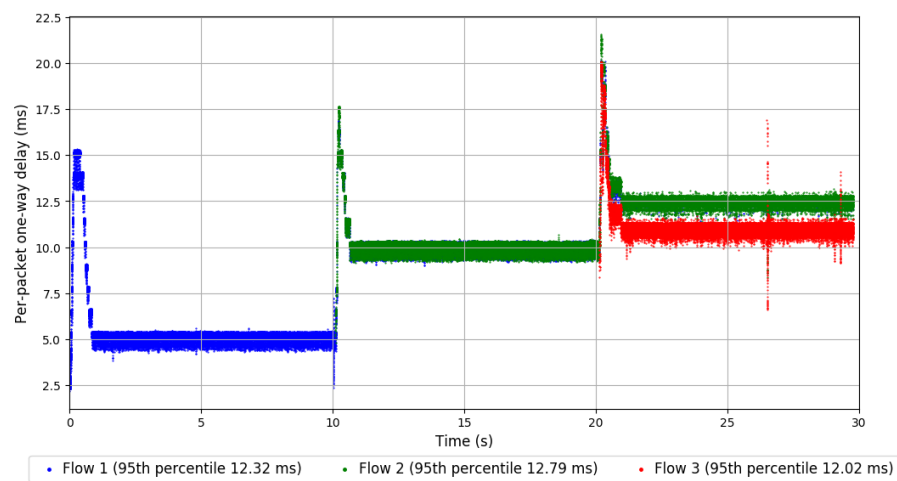
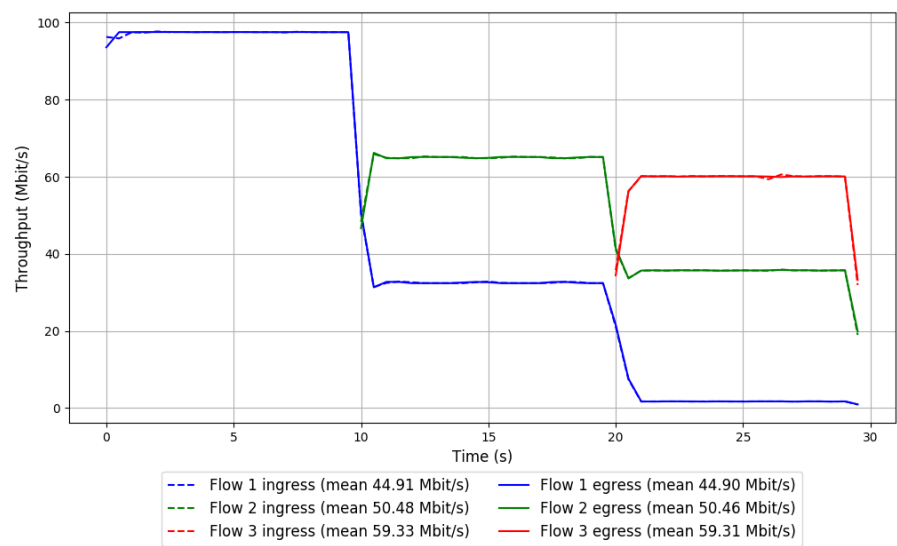


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 21:43:50  
End at: 2018-04-24 21:44:20  
Local clock offset: -5.011 ms  
Remote clock offset: -4.689 ms

# Below is generated by plot.py at 2018-04-25 00:11:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 12.672 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.90 Mbit/s  
95th percentile per-packet one-way delay: 12.324 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 50.46 Mbit/s  
95th percentile per-packet one-way delay: 12.791 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 59.31 Mbit/s  
95th percentile per-packet one-way delay: 12.021 ms  
Loss rate: 0.00%

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

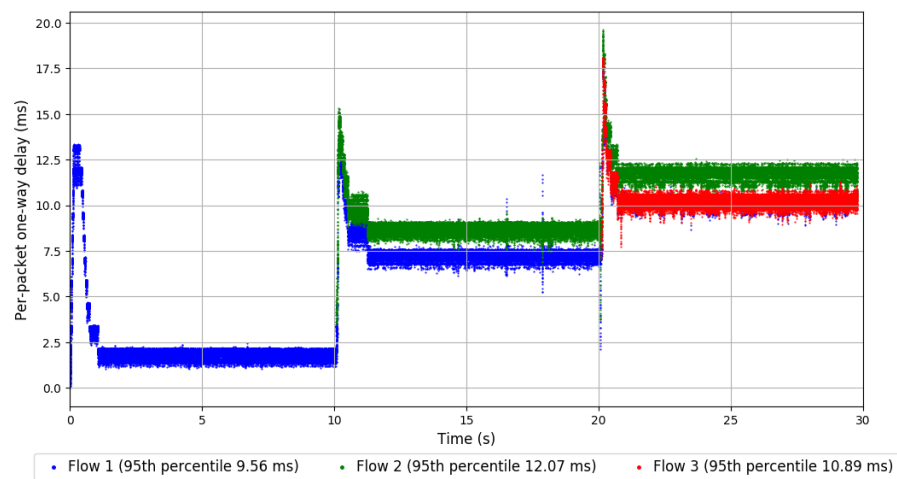
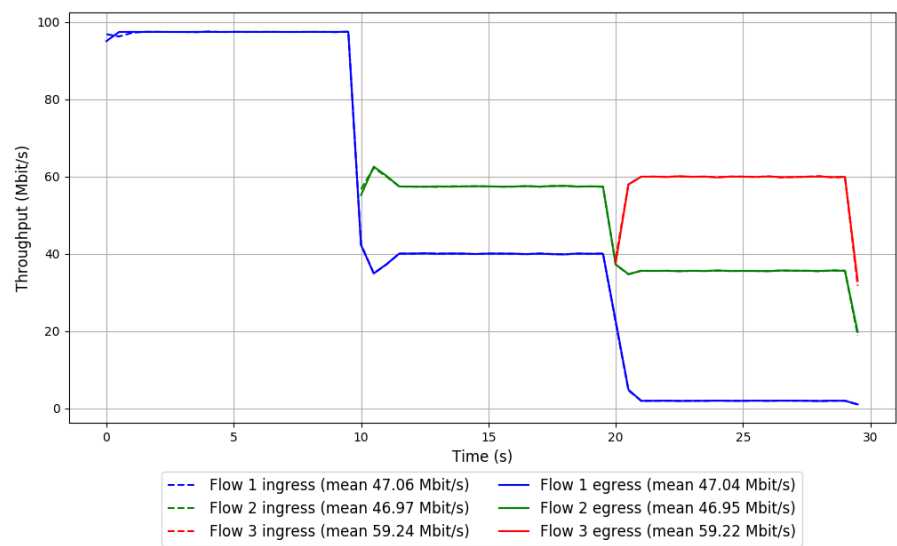


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 22:03:00  
End at: 2018-04-24 22:03:30  
Local clock offset: -4.477 ms  
Remote clock offset: -4.358 ms

# Below is generated by plot.py at 2018-04-25 00:11:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.34 Mbit/s  
95th percentile per-packet one-way delay: 11.993 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 47.04 Mbit/s  
95th percentile per-packet one-way delay: 9.564 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.95 Mbit/s  
95th percentile per-packet one-way delay: 12.074 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 59.22 Mbit/s  
95th percentile per-packet one-way delay: 10.894 ms  
Loss rate: 0.00%

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



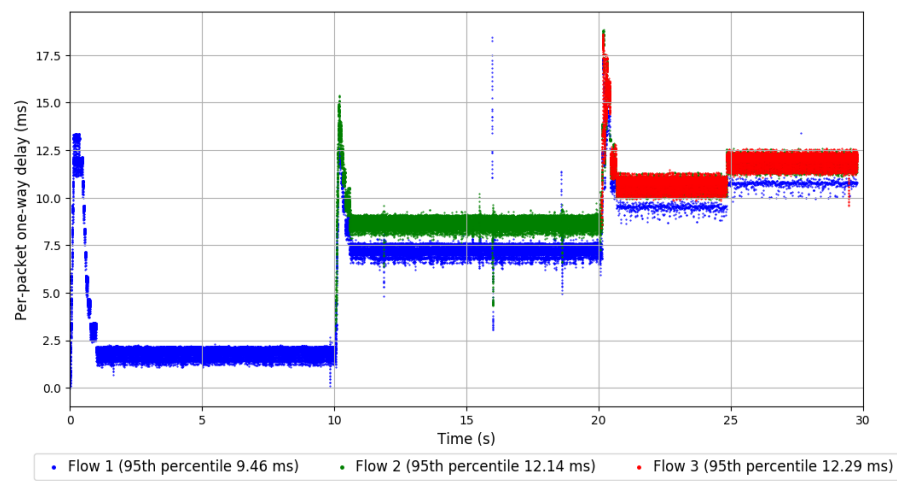
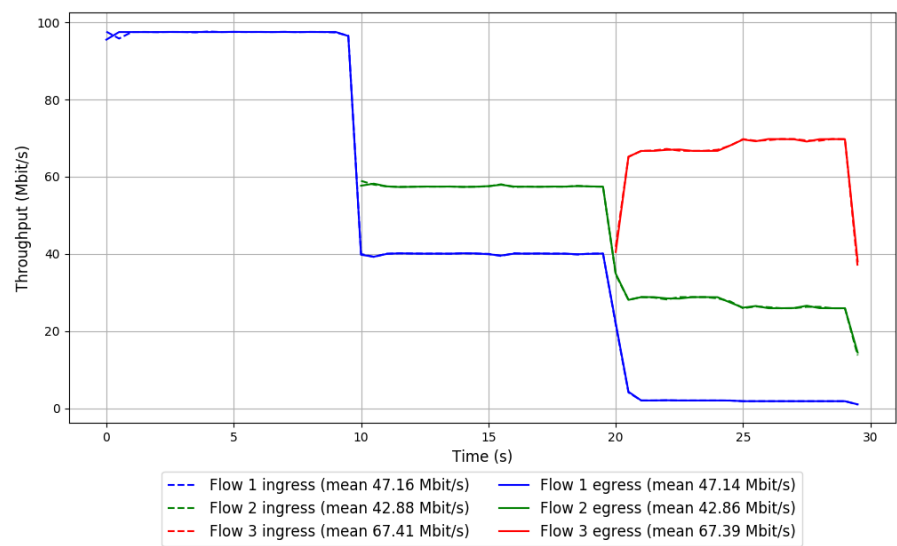


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 22:22:12  
End at: 2018-04-24 22:22:42  
Local clock offset: -4.536 ms  
Remote clock offset: -3.996 ms

# Below is generated by plot.py at 2018-04-25 00:11:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 12.143 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 47.14 Mbit/s  
95th percentile per-packet one-way delay: 9.459 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 42.86 Mbit/s  
95th percentile per-packet one-way delay: 12.137 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 67.39 Mbit/s  
95th percentile per-packet one-way delay: 12.295 ms  
Loss rate: 0.00%

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

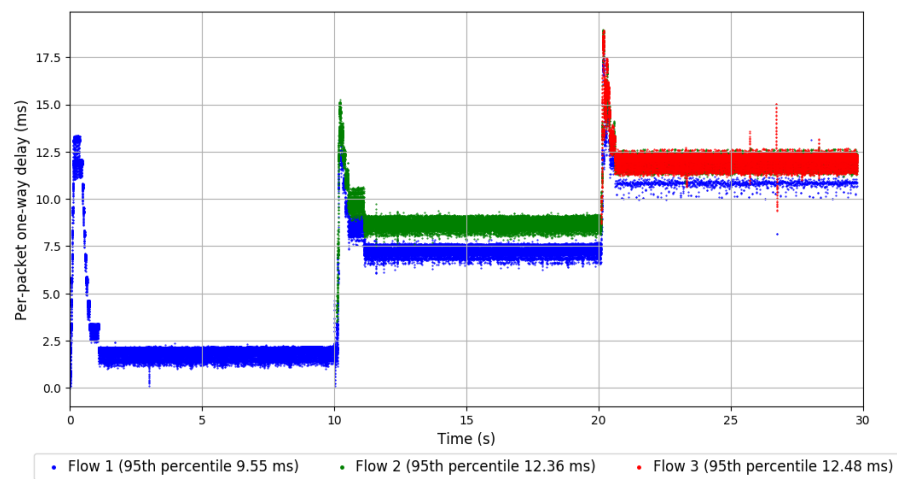
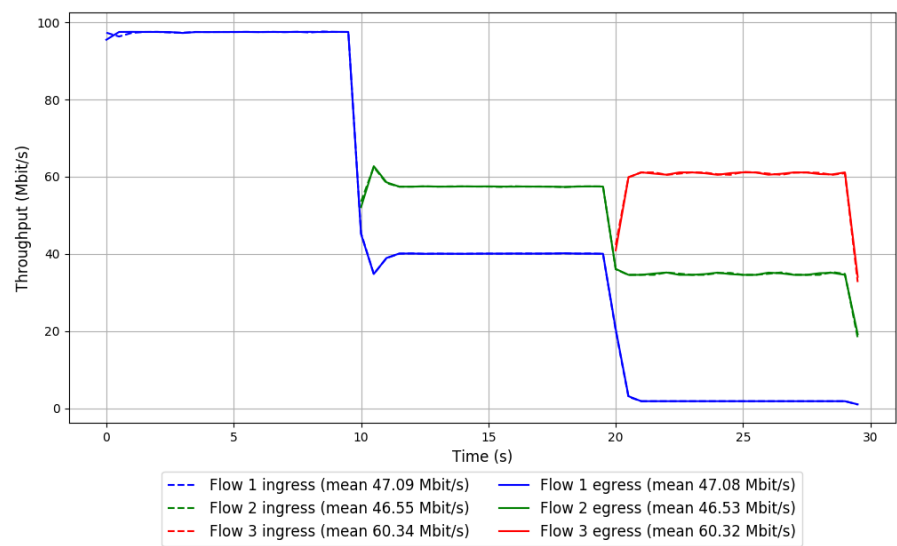


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 22:41:23  
End at: 2018-04-24 22:41:53  
Local clock offset: -4.559 ms  
Remote clock offset: -5.042 ms

# Below is generated by plot.py at 2018-04-25 00:11:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 12.332 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 47.08 Mbit/s  
95th percentile per-packet one-way delay: 9.552 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.53 Mbit/s  
95th percentile per-packet one-way delay: 12.355 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 60.32 Mbit/s  
95th percentile per-packet one-way delay: 12.483 ms  
Loss rate: 0.00%

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

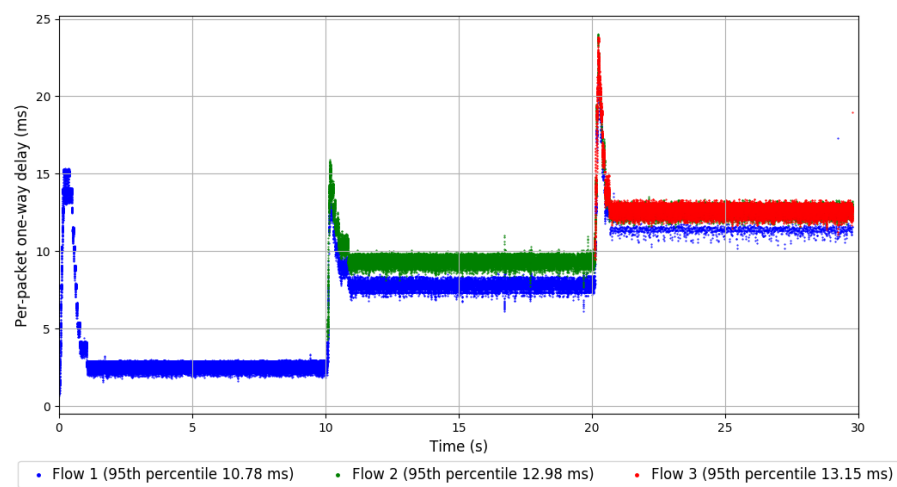
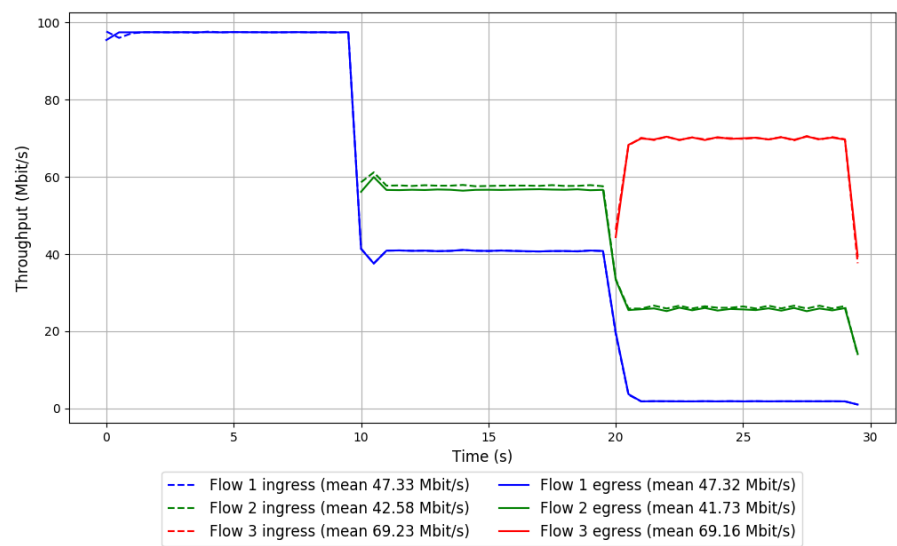


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 23:00:34  
End at: 2018-04-24 23:01:04  
Local clock offset: -4.899 ms  
Remote clock offset: -6.462 ms

# Below is generated by plot.py at 2018-04-25 00:11:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 13.021 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 47.32 Mbit/s  
95th percentile per-packet one-way delay: 10.775 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 41.73 Mbit/s  
95th percentile per-packet one-way delay: 12.982 ms  
Loss rate: 1.95%  
-- Flow 3:  
Average throughput: 69.16 Mbit/s  
95th percentile per-packet one-way delay: 13.154 ms  
Loss rate: 0.00%

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

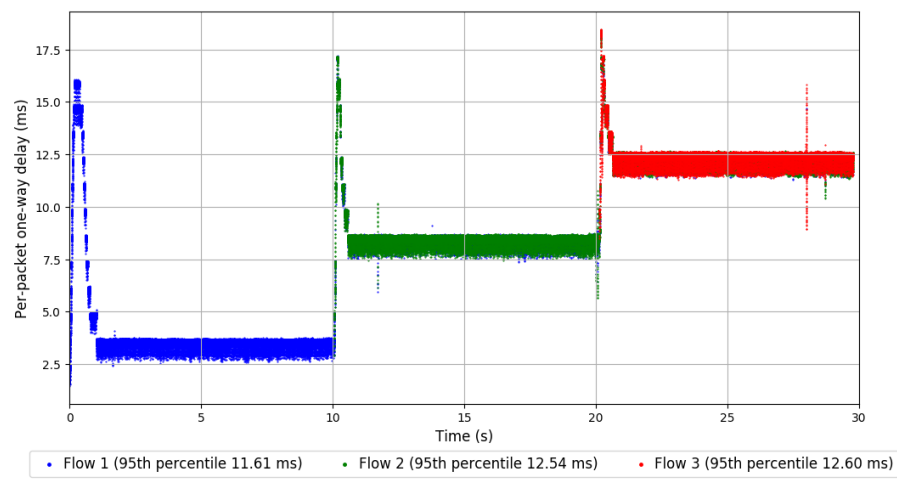
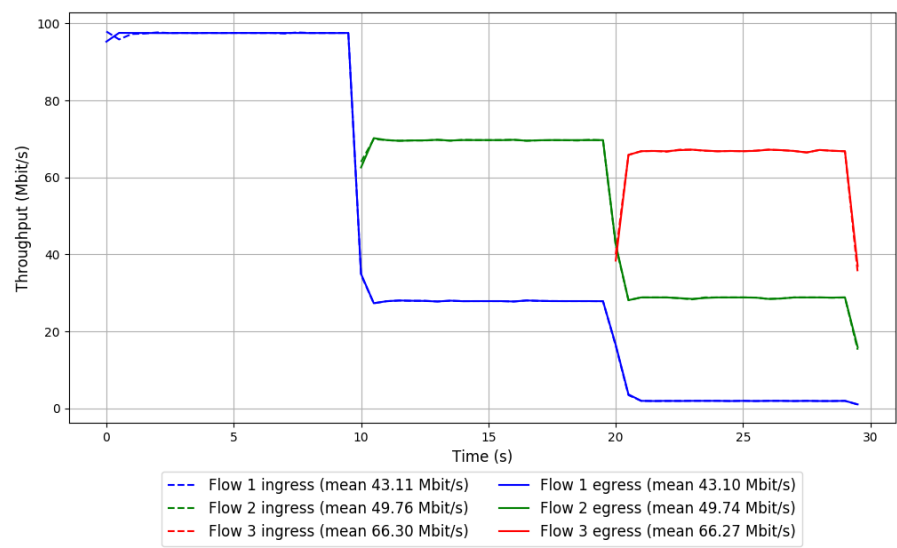


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 23:19:47  
End at: 2018-04-24 23:20:17  
Local clock offset: -5.555 ms  
Remote clock offset: -6.666 ms

# Below is generated by plot.py at 2018-04-25 00:11:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.49 Mbit/s  
95th percentile per-packet one-way delay: 12.571 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.10 Mbit/s  
95th percentile per-packet one-way delay: 11.608 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 49.74 Mbit/s  
95th percentile per-packet one-way delay: 12.541 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 66.27 Mbit/s  
95th percentile per-packet one-way delay: 12.604 ms  
Loss rate: 0.00%

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



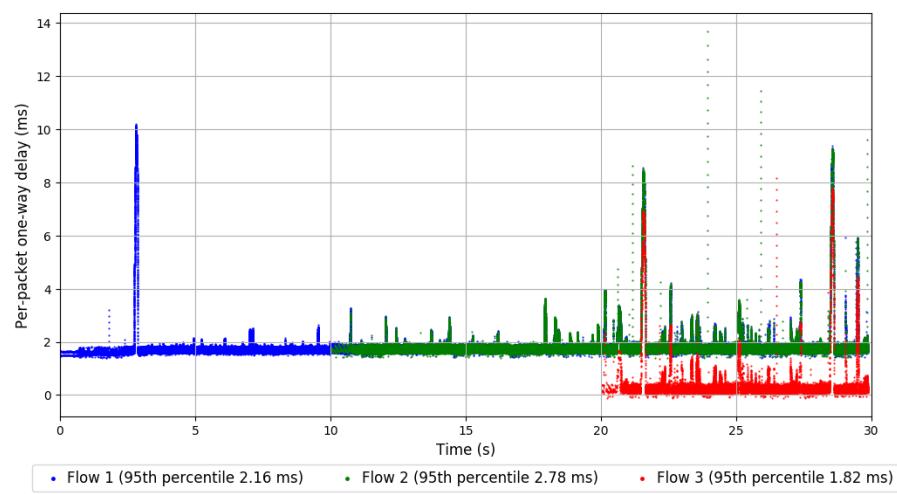
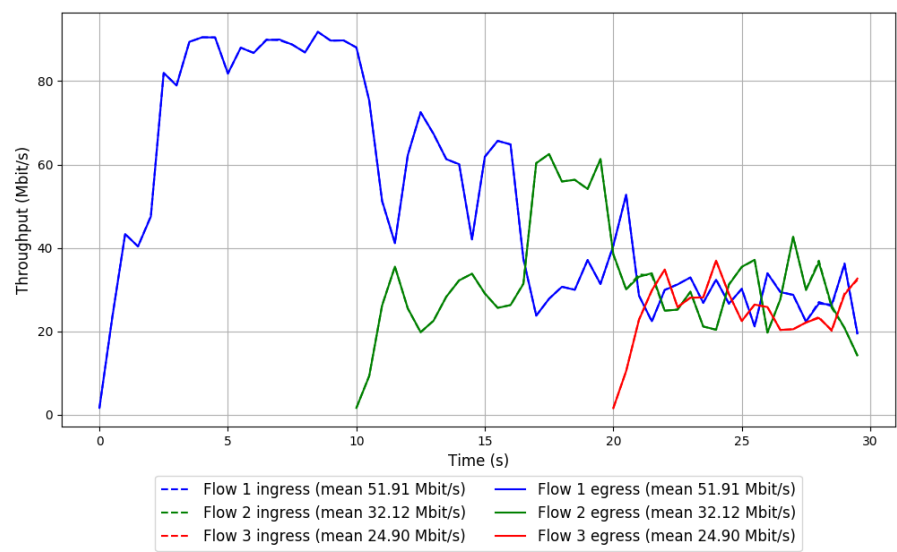


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 20:12:29  
End at: 2018-04-24 20:12:59  
Local clock offset: -4.214 ms  
Remote clock offset: -7.406 ms

# Below is generated by plot.py at 2018-04-25 00:11:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.47 Mbit/s  
95th percentile per-packet one-way delay: 2.313 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 51.91 Mbit/s  
95th percentile per-packet one-way delay: 2.163 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 32.12 Mbit/s  
95th percentile per-packet one-way delay: 2.784 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.90 Mbit/s  
95th percentile per-packet one-way delay: 1.817 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

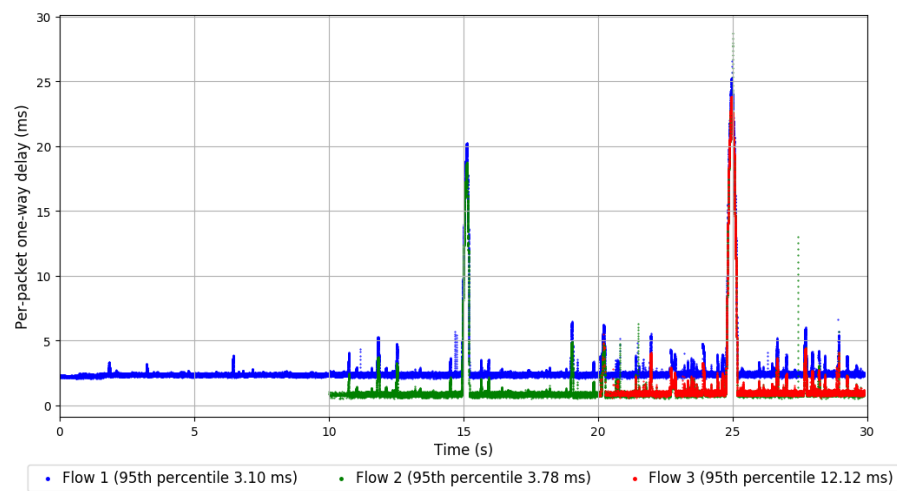
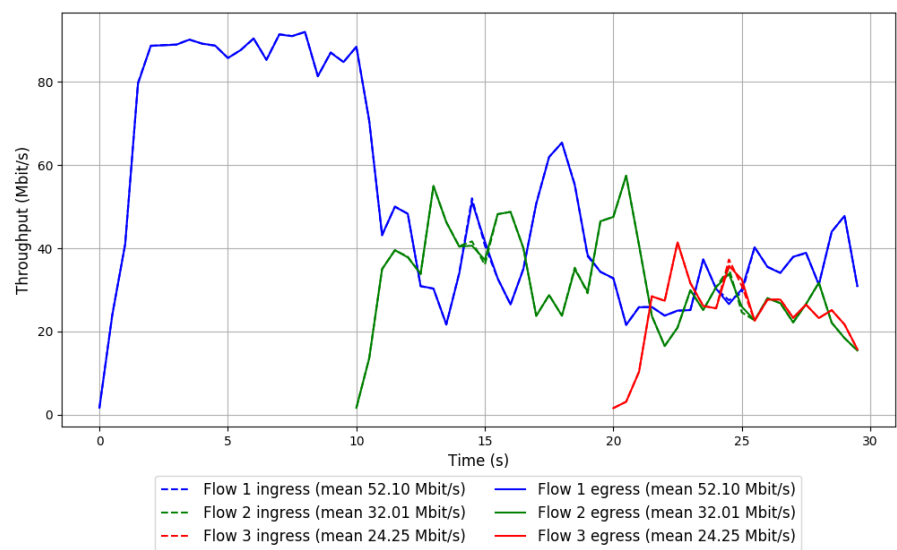


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 20:31:41  
End at: 2018-04-24 20:32:11  
Local clock offset: -4.991 ms  
Remote clock offset: -7.934 ms

# Below is generated by plot.py at 2018-04-25 00:11:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.37 Mbit/s  
95th percentile per-packet one-way delay: 3.353 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 52.10 Mbit/s  
95th percentile per-packet one-way delay: 3.098 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 32.01 Mbit/s  
95th percentile per-packet one-way delay: 3.778 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.25 Mbit/s  
95th percentile per-packet one-way delay: 12.123 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

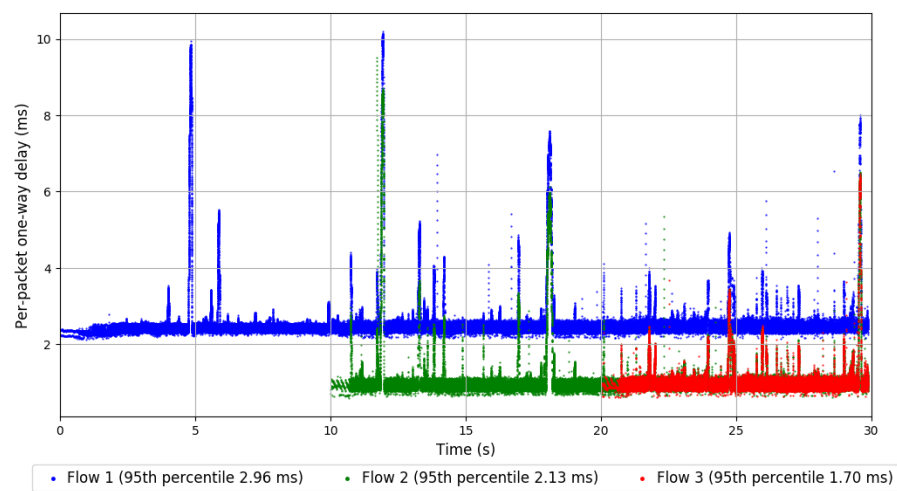
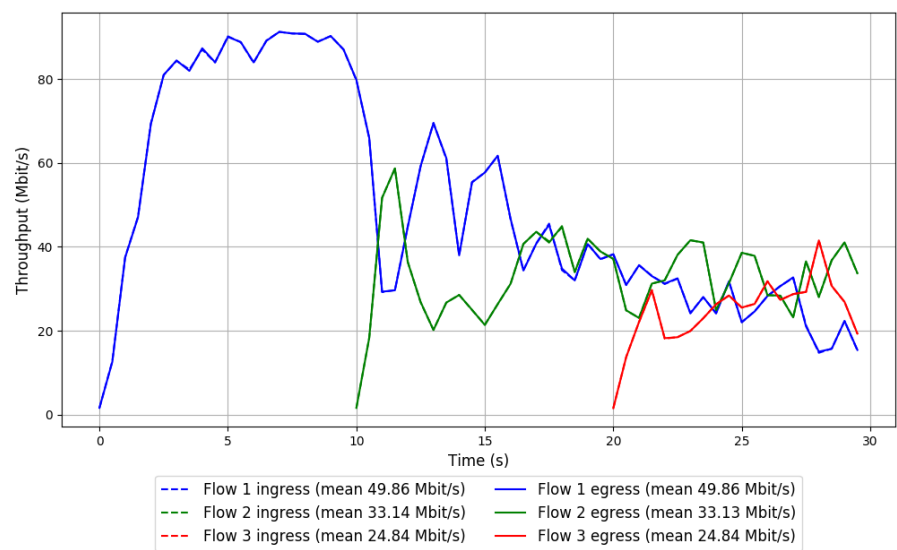


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 20:50:54  
End at: 2018-04-24 20:51:24  
Local clock offset: -4.942 ms  
Remote clock offset: -8.289 ms

# Below is generated by plot.py at 2018-04-25 00:12:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.08 Mbit/s  
95th percentile per-packet one-way delay: 2.752 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 49.86 Mbit/s  
95th percentile per-packet one-way delay: 2.960 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 33.13 Mbit/s  
95th percentile per-packet one-way delay: 2.132 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.84 Mbit/s  
95th percentile per-packet one-way delay: 1.699 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

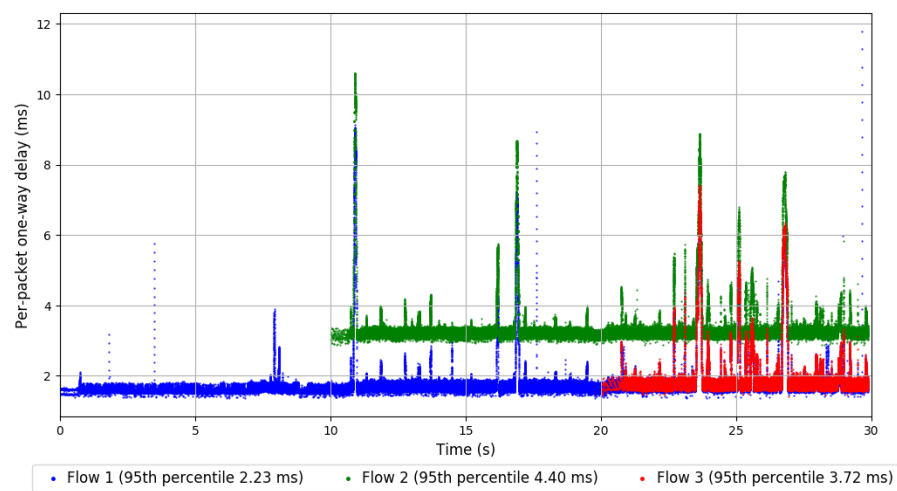
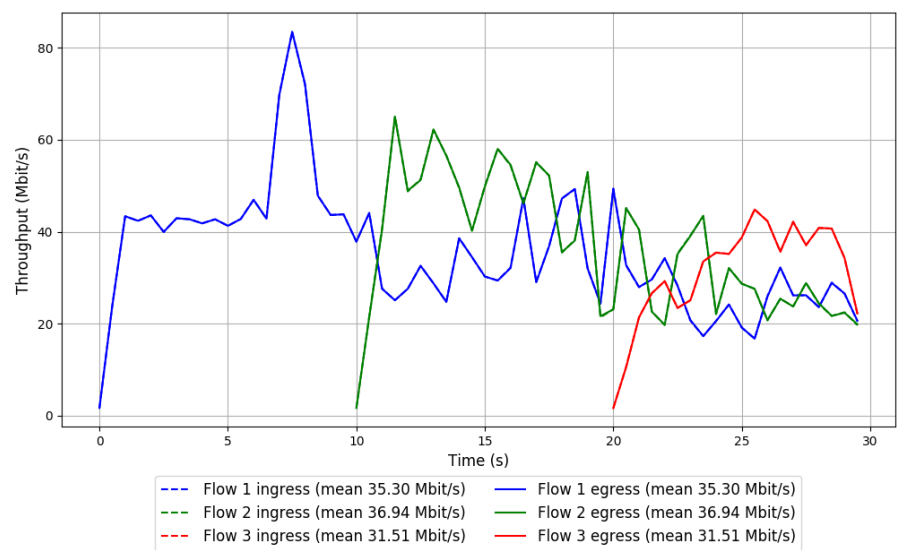


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 21:10:07  
End at: 2018-04-24 21:10:37  
Local clock offset: -5.677 ms  
Remote clock offset: -5.529 ms

# Below is generated by plot.py at 2018-04-25 00:12:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.25 Mbit/s  
95th percentile per-packet one-way delay: 3.695 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.30 Mbit/s  
95th percentile per-packet one-way delay: 2.228 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.94 Mbit/s  
95th percentile per-packet one-way delay: 4.396 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.51 Mbit/s  
95th percentile per-packet one-way delay: 3.724 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



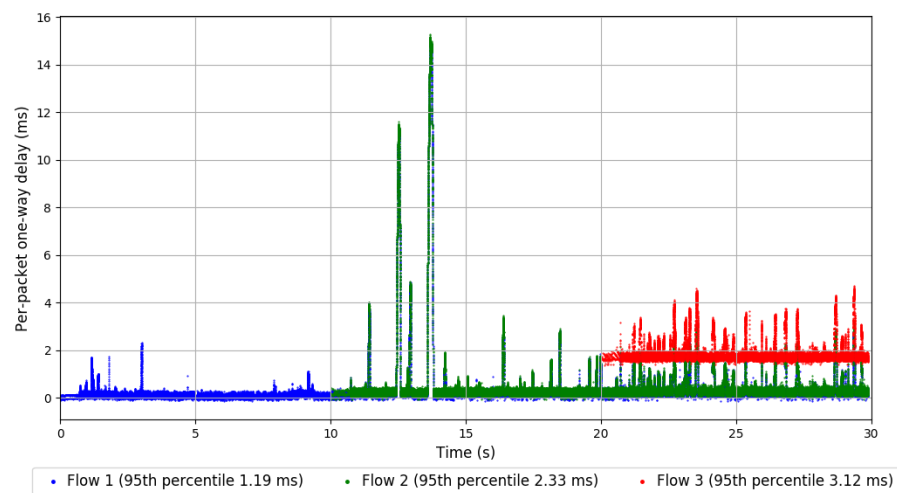
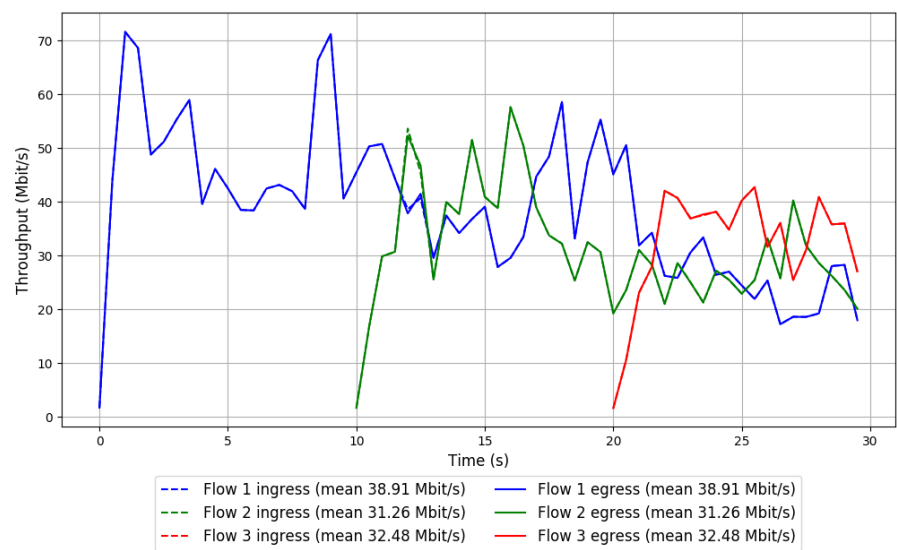


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 21:29:18  
End at: 2018-04-24 21:29:48  
Local clock offset: -4.069 ms  
Remote clock offset: -4.779 ms

# Below is generated by plot.py at 2018-04-25 00:12:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.40 Mbit/s  
95th percentile per-packet one-way delay: 2.201 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 38.91 Mbit/s  
95th percentile per-packet one-way delay: 1.189 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.26 Mbit/s  
95th percentile per-packet one-way delay: 2.326 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 3.121 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

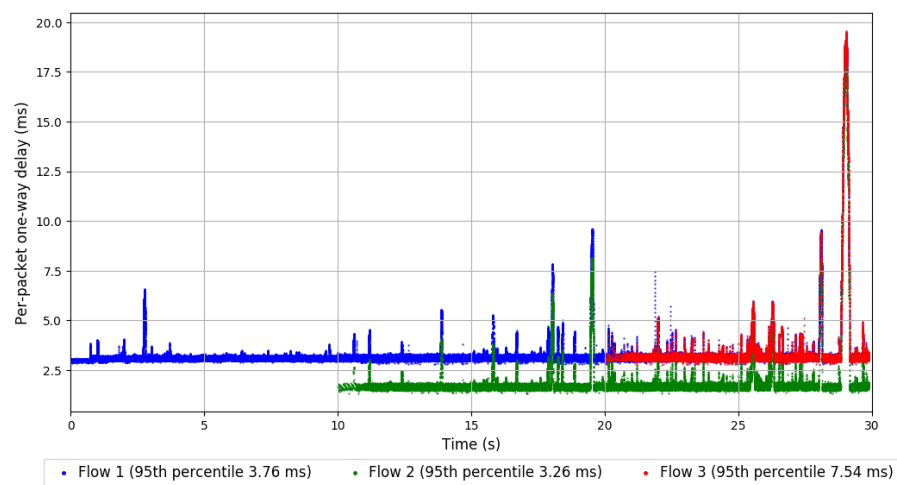
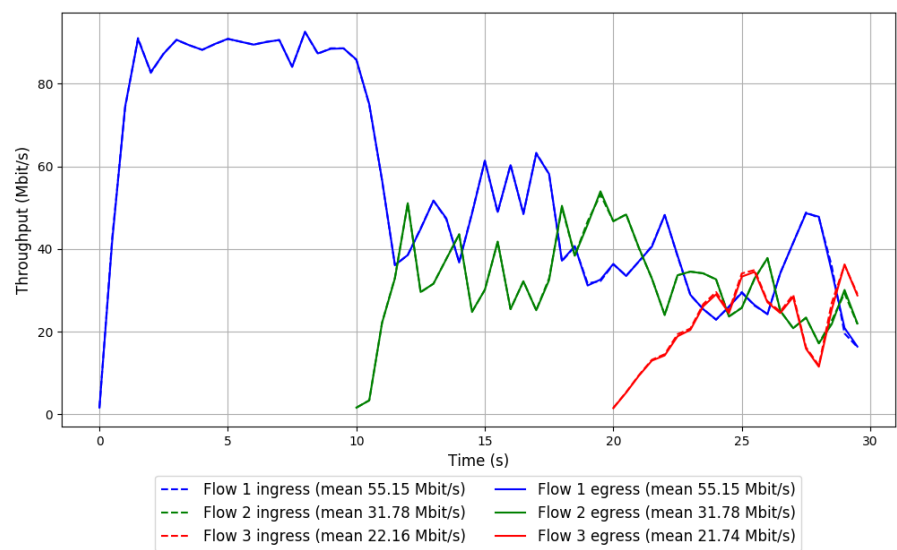


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 21:48:26  
End at: 2018-04-24 21:48:56  
Local clock offset: -5.827 ms  
Remote clock offset: -4.683 ms

# Below is generated by plot.py at 2018-04-25 00:12:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.45 Mbit/s  
95th percentile per-packet one-way delay: 3.892 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 55.15 Mbit/s  
95th percentile per-packet one-way delay: 3.764 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.78 Mbit/s  
95th percentile per-packet one-way delay: 3.260 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 21.74 Mbit/s  
95th percentile per-packet one-way delay: 7.540 ms  
Loss rate: 1.86%

Run 6: Report of PCC-Vivace — Data Link

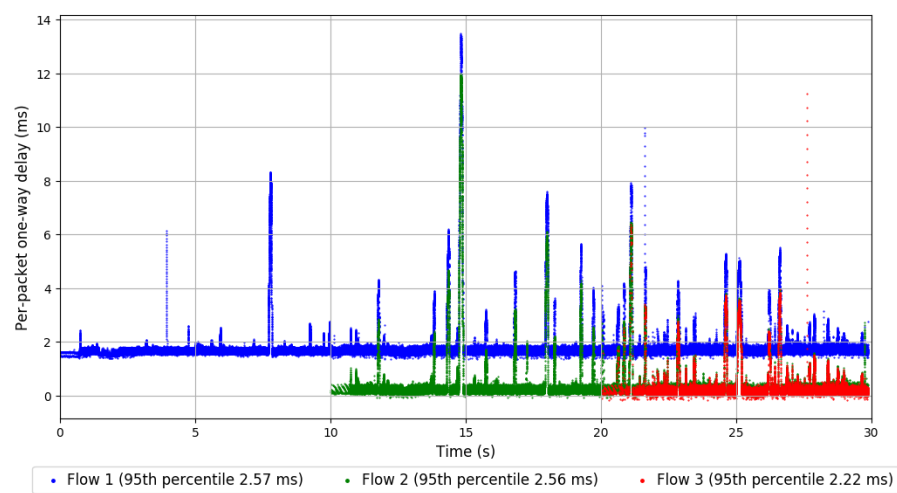
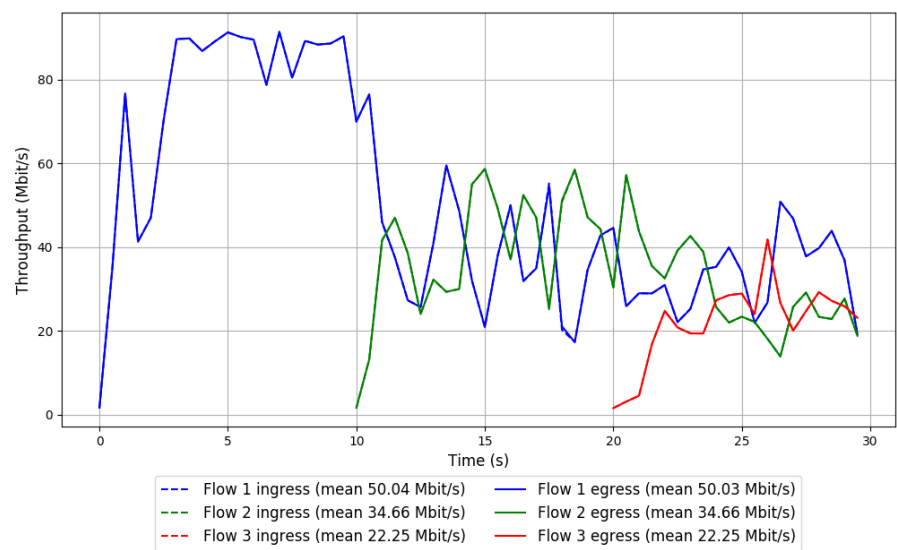


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 22:07:38  
End at: 2018-04-24 22:08:08  
Local clock offset: -4.509 ms  
Remote clock offset: -4.279 ms

# Below is generated by plot.py at 2018-04-25 00:12:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.40 Mbit/s  
95th percentile per-packet one-way delay: 2.540 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.03 Mbit/s  
95th percentile per-packet one-way delay: 2.567 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 34.66 Mbit/s  
95th percentile per-packet one-way delay: 2.565 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 22.25 Mbit/s  
95th percentile per-packet one-way delay: 2.219 ms  
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

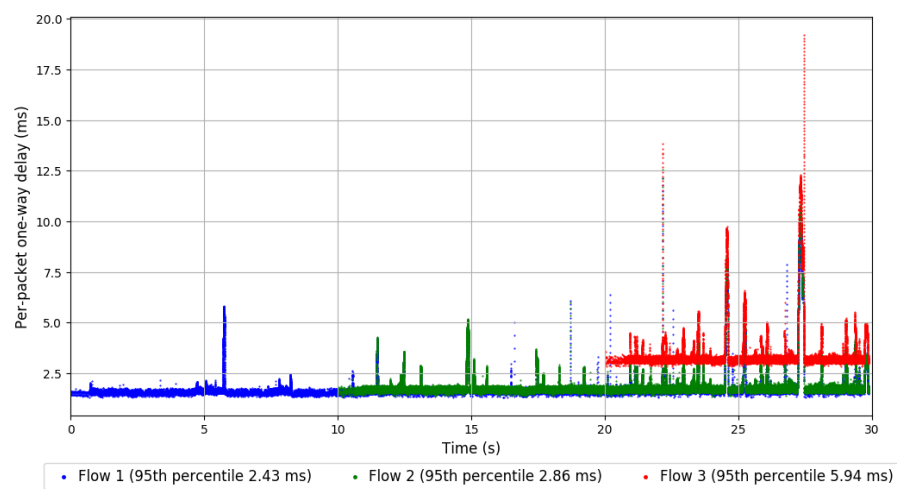
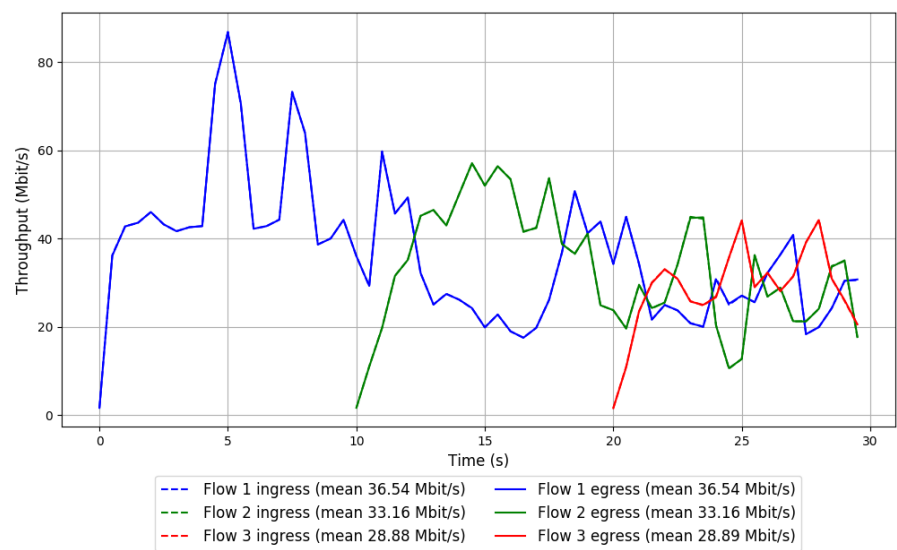


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 22:26:50  
End at: 2018-04-24 22:27:20  
Local clock offset: -6.068 ms  
Remote clock offset: -3.965 ms

# Below is generated by plot.py at 2018-04-25 00:12:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.12 Mbit/s  
95th percentile per-packet one-way delay: 3.383 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 36.54 Mbit/s  
95th percentile per-packet one-way delay: 2.427 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 33.16 Mbit/s  
95th percentile per-packet one-way delay: 2.862 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.89 Mbit/s  
95th percentile per-packet one-way delay: 5.940 ms  
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



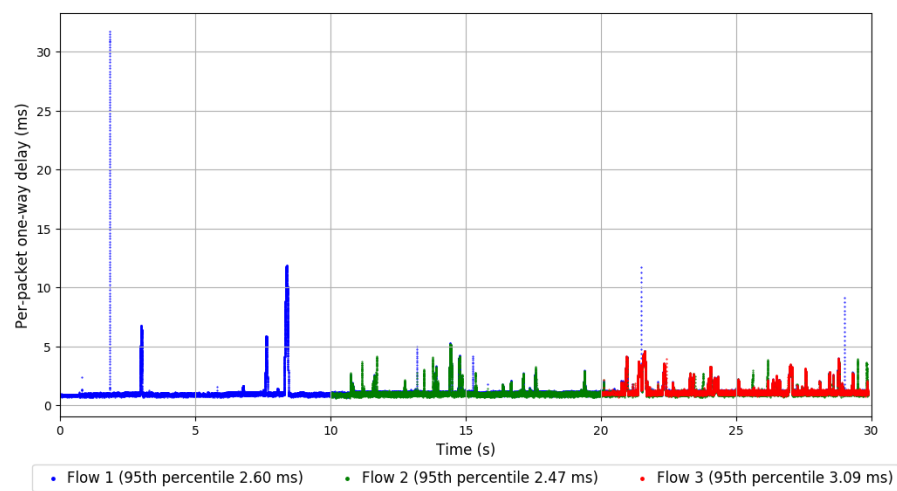
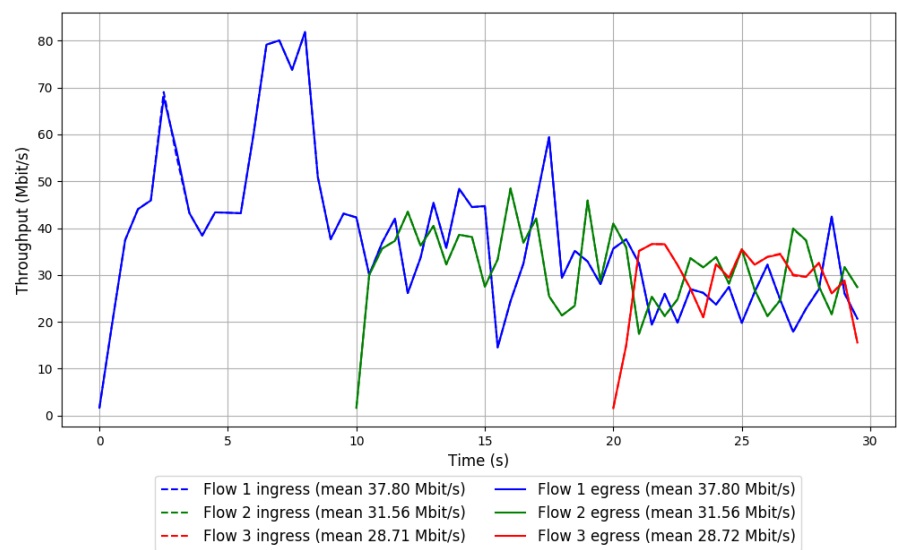


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 22:46:02  
End at: 2018-04-24 22:46:32  
Local clock offset: -5.326 ms  
Remote clock offset: -5.616 ms

# Below is generated by plot.py at 2018-04-25 00:12:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.25 Mbit/s  
95th percentile per-packet one-way delay: 2.662 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 37.80 Mbit/s  
95th percentile per-packet one-way delay: 2.605 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 31.56 Mbit/s  
95th percentile per-packet one-way delay: 2.467 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 28.72 Mbit/s  
95th percentile per-packet one-way delay: 3.088 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

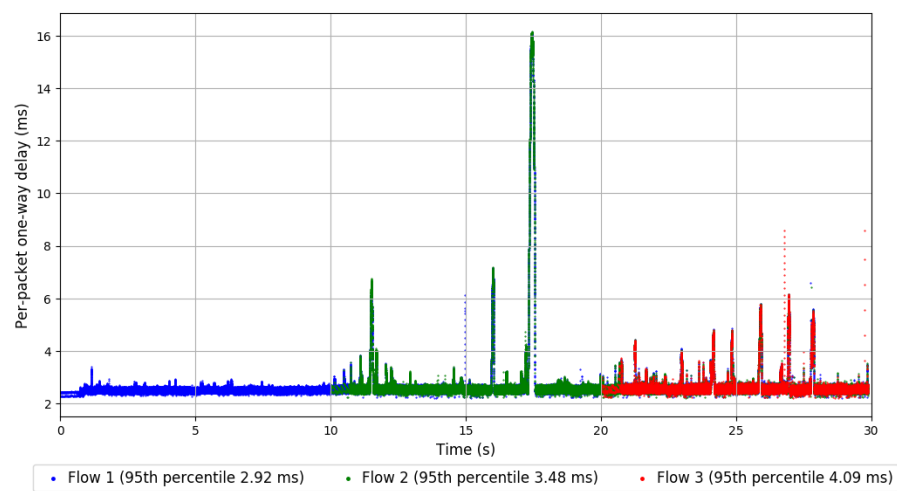
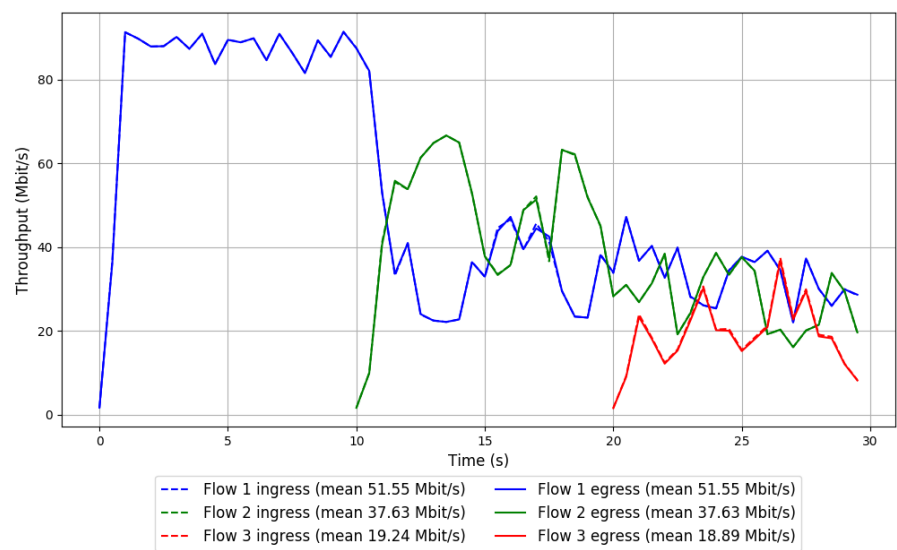


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 23:05:12  
End at: 2018-04-24 23:05:42  
Local clock offset: -4.919 ms  
Remote clock offset: -6.603 ms

# Below is generated by plot.py at 2018-04-25 00:12:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.79 Mbit/s  
95th percentile per-packet one-way delay: 3.181 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 51.55 Mbit/s  
95th percentile per-packet one-way delay: 2.915 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.63 Mbit/s  
95th percentile per-packet one-way delay: 3.485 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 18.89 Mbit/s  
95th percentile per-packet one-way delay: 4.094 ms  
Loss rate: 1.77%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 20:18:13

End at: 2018-04-24 20:18:43

Local clock offset: -5.828 ms

Remote clock offset: -7.574 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 20:37:25

End at: 2018-04-24 20:37:55

Local clock offset: -5.776 ms

Remote clock offset: -7.997 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing



Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 20:56:37

End at: 2018-04-24 20:57:07

Local clock offset: -5.085 ms

Remote clock offset: -7.378 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 21:15:49

End at: 2018-04-24 21:16:19

Local clock offset: -4.83 ms

Remote clock offset: -5.274 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 21:35:01

End at: 2018-04-24 21:35:31

Local clock offset: -5.562 ms

Remote clock offset: -4.851 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 21:54:10

End at: 2018-04-24 21:54:40

Local clock offset: -4.402 ms

Remote clock offset: -4.582 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing



Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 22:13:22

End at: 2018-04-24 22:13:52

Local clock offset: -5.359 ms

Remote clock offset: -4.166 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 22:32:33

End at: 2018-04-24 22:33:03

Local clock offset: -5.259 ms

Remote clock offset: -3.787 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 22:51:45

End at: 2018-04-24 22:52:15

Local clock offset: -5.86 ms

Remote clock offset: -6.03 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 23:10:56

End at: 2018-04-24 23:11:26

Local clock offset: -4.9 ms

Remote clock offset: -6.708 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing