

## Pantheon Report

Generated at 2018-04-25 04:07:36 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

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

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

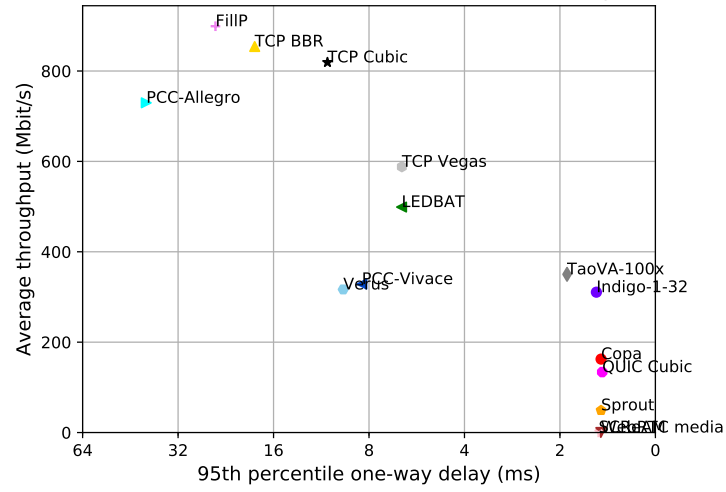
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

Git summary:

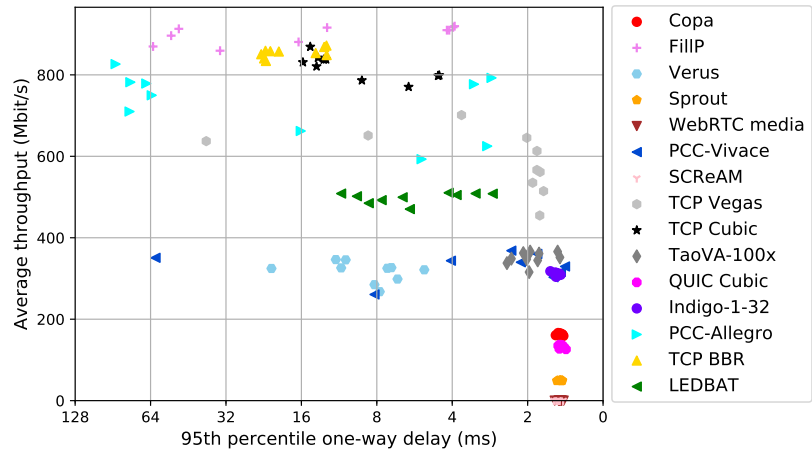
```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo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



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



[illegible]



Run 1: Statistics of TCP BBR

Start at: 2018-04-24 17:14:08

End at: 2018-04-24 17:14:38

Local clock offset: 0.393 ms

Remote clock offset: -4.8 ms

# Below is generated by plot.py at 2018-04-25 02:16:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 859.16 Mbit/s

95th percentile per-packet one-way delay: 22.258 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 485.12 Mbit/s

95th percentile per-packet one-way delay: 25.601 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 400.93 Mbit/s

95th percentile per-packet one-way delay: 8.699 ms

Loss rate: 0.09%

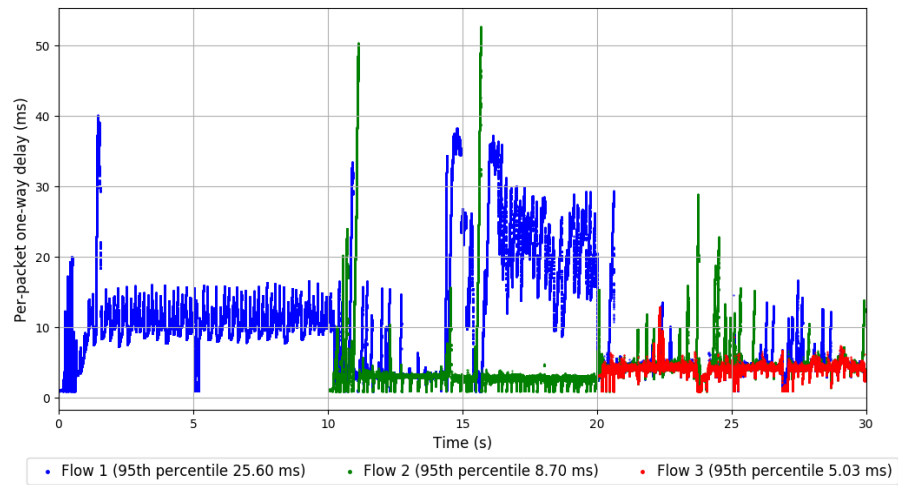
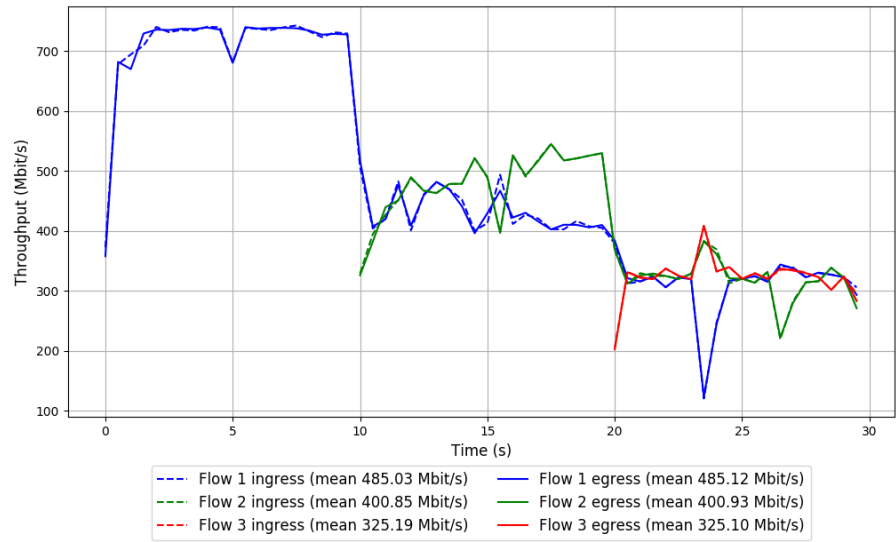
-- Flow 3:

Average throughput: 325.10 Mbit/s

95th percentile per-packet one-way delay: 5.033 ms

Loss rate: 0.22%

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



Run 2: Statistics of TCP BBR

Start at: 2018-04-24 17:40:45

End at: 2018-04-24 17:41:15

Local clock offset: 0.244 ms

Remote clock offset: -6.12 ms

# Below is generated by plot.py at 2018-04-25 02:16:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 848.63 Mbit/s

95th percentile per-packet one-way delay: 12.687 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 483.56 Mbit/s

95th percentile per-packet one-way delay: 18.634 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 388.94 Mbit/s

95th percentile per-packet one-way delay: 10.253 ms

Loss rate: 0.10%

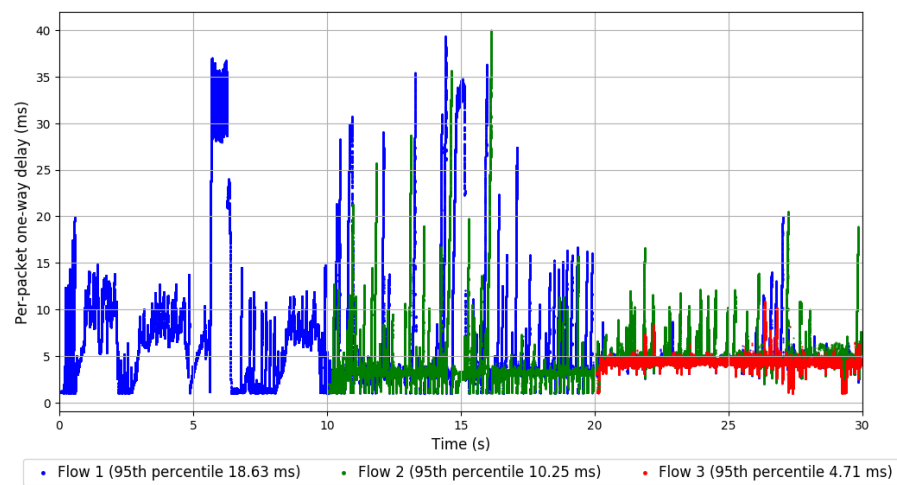
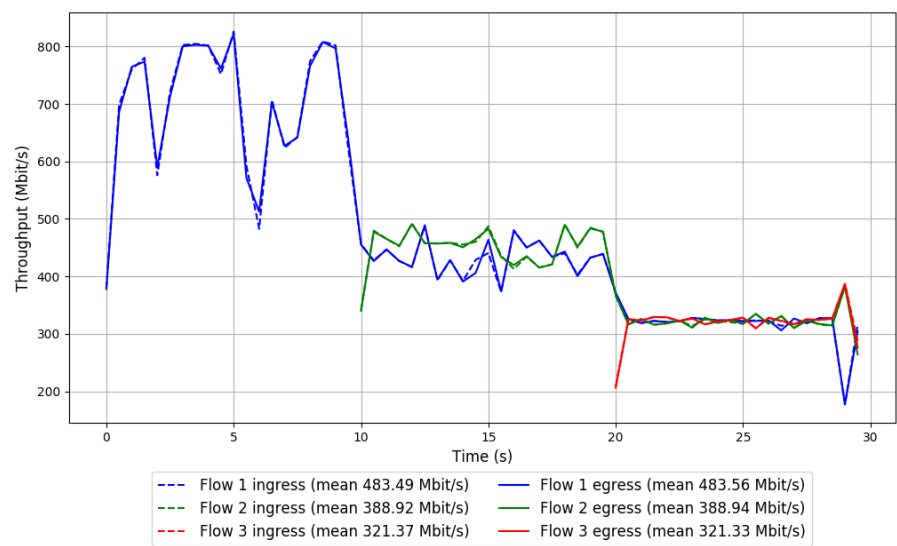
-- Flow 3:

Average throughput: 321.33 Mbit/s

95th percentile per-packet one-way delay: 4.713 ms

Loss rate: 0.23%

Run 2: Report of TCP BBR — Data Link

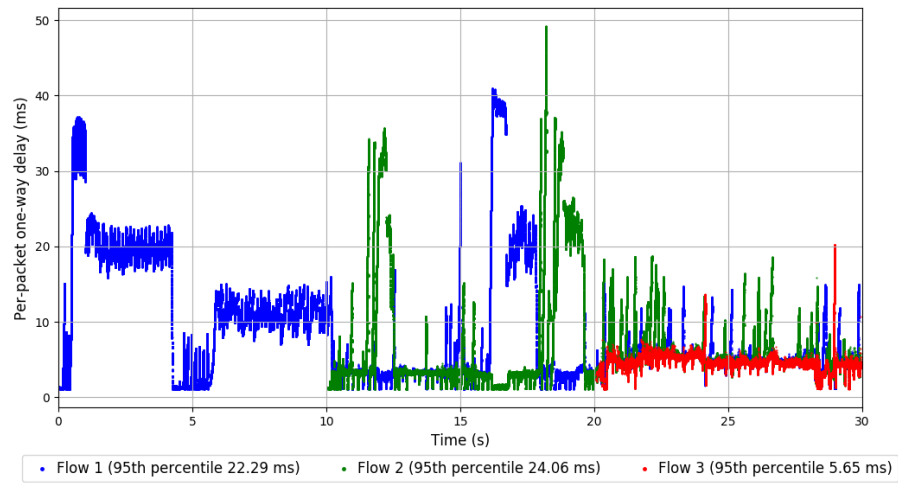
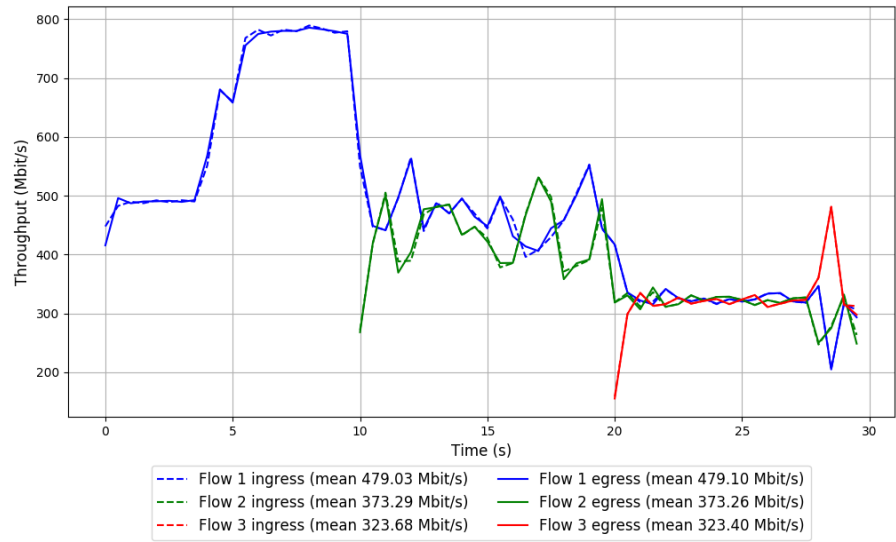


Run 3: Statistics of TCP BBR

Start at: 2018-04-24 18:07:21  
End at: 2018-04-24 18:07:51  
Local clock offset: -0.724 ms  
Remote clock offset: -5.378 ms

# Below is generated by plot.py at 2018-04-25 02:16:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 834.20 Mbit/s  
95th percentile per-packet one-way delay: 22.171 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 479.10 Mbit/s  
95th percentile per-packet one-way delay: 22.290 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 373.26 Mbit/s  
95th percentile per-packet one-way delay: 24.062 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 323.40 Mbit/s  
95th percentile per-packet one-way delay: 5.654 ms  
Loss rate: 0.24%

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

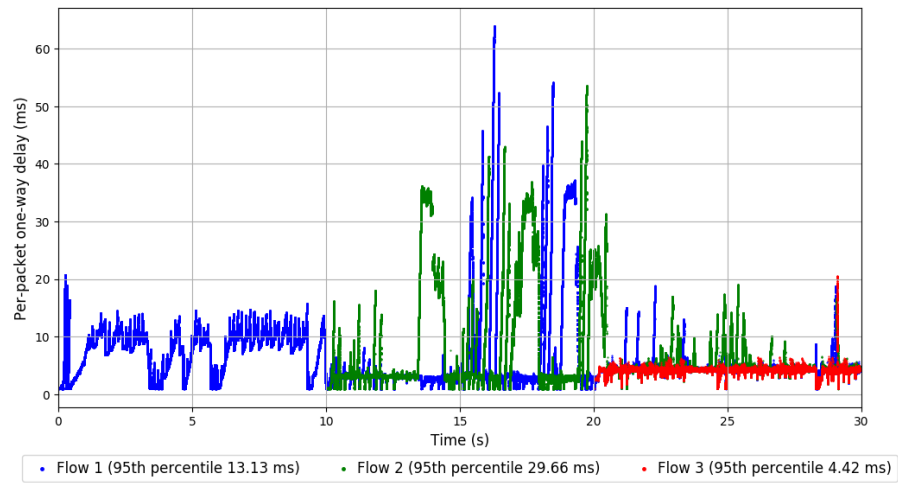
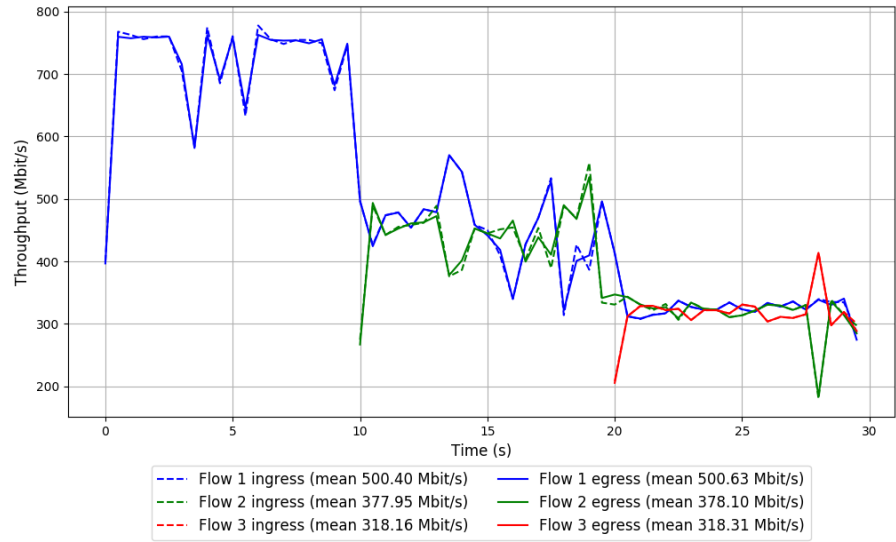


Run 4: Statistics of TCP BBR

Start at: 2018-04-24 18:33:57  
End at: 2018-04-24 18:34:27  
Local clock offset: -1.671 ms  
Remote clock offset: -5.636 ms

# Below is generated by plot.py at 2018-04-25 02:16:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 857.35 Mbit/s  
95th percentile per-packet one-way delay: 19.688 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 500.63 Mbit/s  
95th percentile per-packet one-way delay: 13.128 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 378.10 Mbit/s  
95th percentile per-packet one-way delay: 29.656 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 318.31 Mbit/s  
95th percentile per-packet one-way delay: 4.425 ms  
Loss rate: 0.23%

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



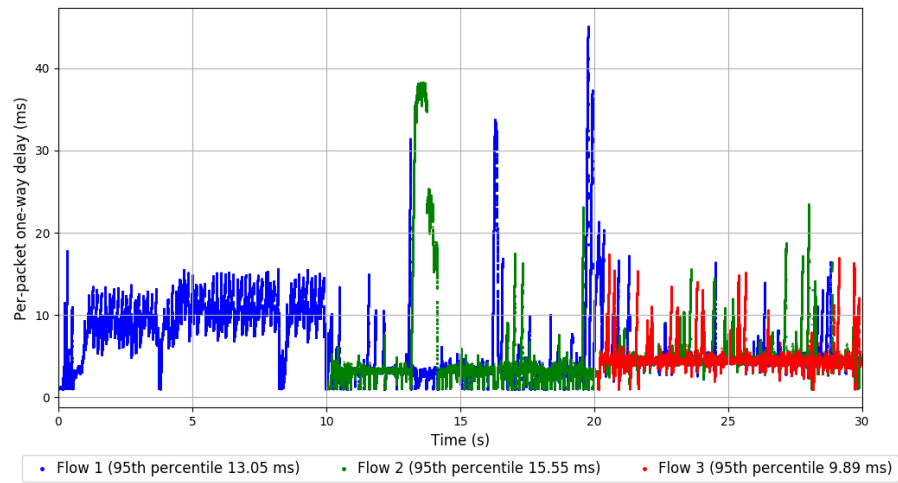
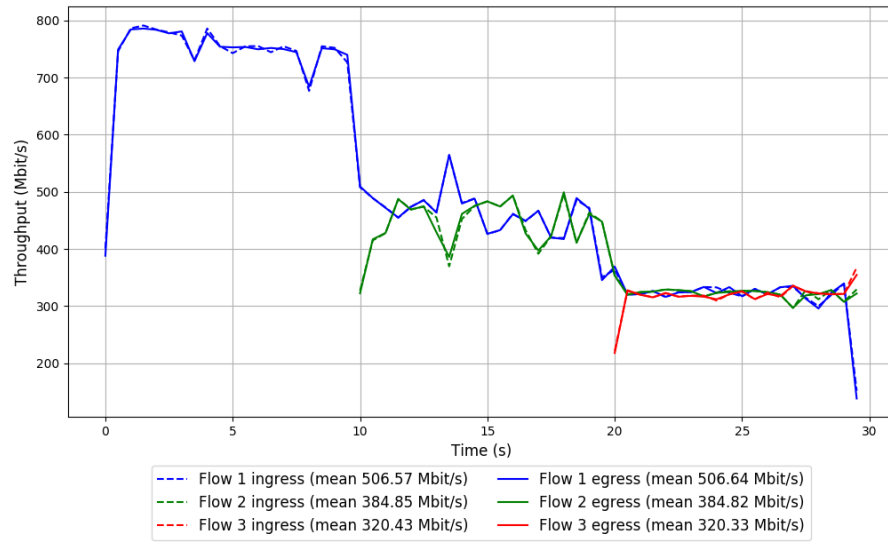


Run 5: Statistics of TCP BBR

Start at: 2018-04-24 19:00:23  
End at: 2018-04-24 19:00:53  
Local clock offset: 0.302 ms  
Remote clock offset: -6.471 ms

# Below is generated by plot.py at 2018-04-25 02:16:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 868.52 Mbit/s  
95th percentile per-packet one-way delay: 12.976 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 506.64 Mbit/s  
95th percentile per-packet one-way delay: 13.046 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 384.82 Mbit/s  
95th percentile per-packet one-way delay: 15.553 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 320.33 Mbit/s  
95th percentile per-packet one-way delay: 9.890 ms  
Loss rate: 0.25%

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

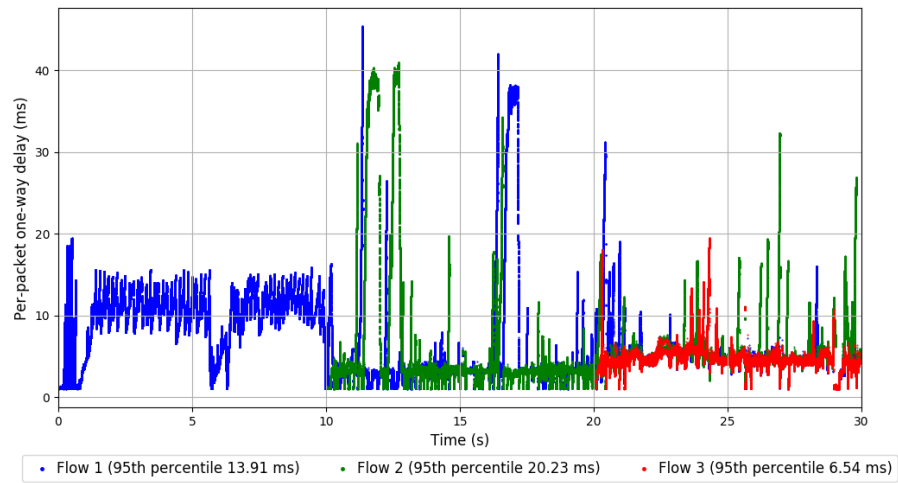
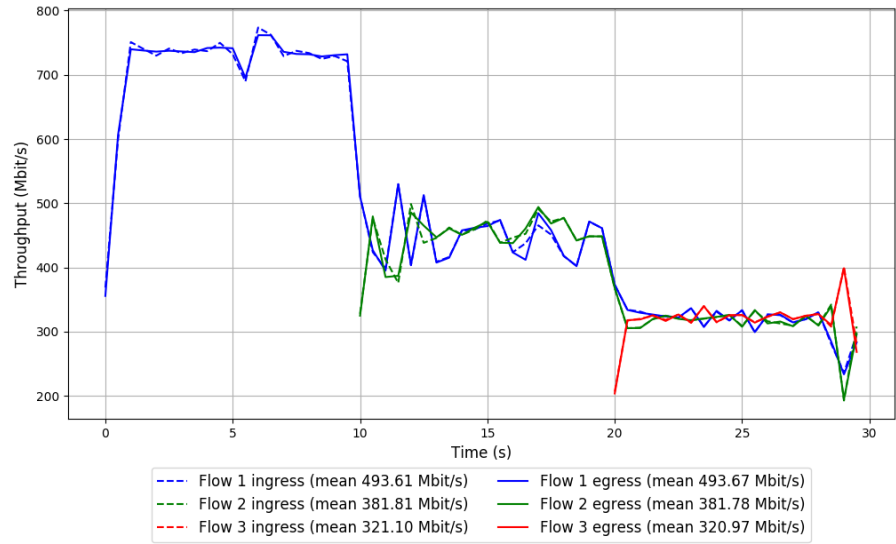


Run 6: Statistics of TCP BBR

Start at: 2018-04-24 19:27:05  
End at: 2018-04-24 19:27:35  
Local clock offset: 0.723 ms  
Remote clock offset: -6.123 ms

# Below is generated by plot.py at 2018-04-25 02:16:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 853.55 Mbit/s  
95th percentile per-packet one-way delay: 14.031 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 493.67 Mbit/s  
95th percentile per-packet one-way delay: 13.912 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 381.78 Mbit/s  
95th percentile per-packet one-way delay: 20.227 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 320.97 Mbit/s  
95th percentile per-packet one-way delay: 6.544 ms  
Loss rate: 0.24%

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

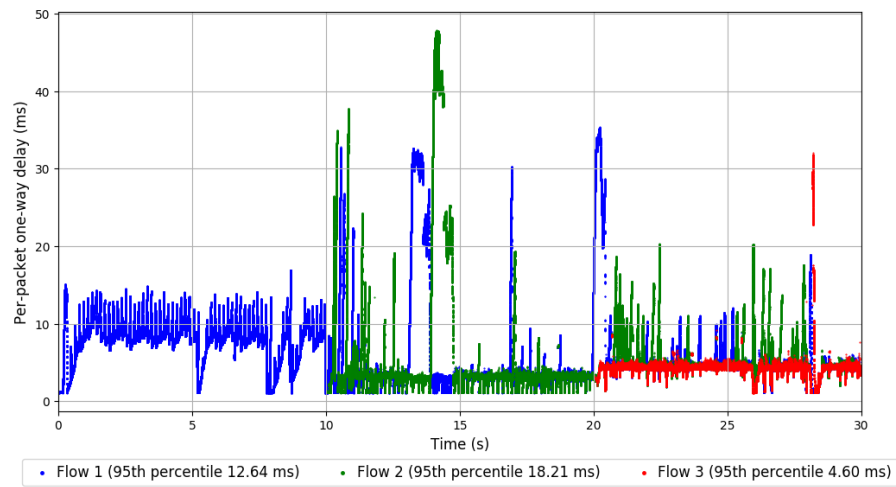
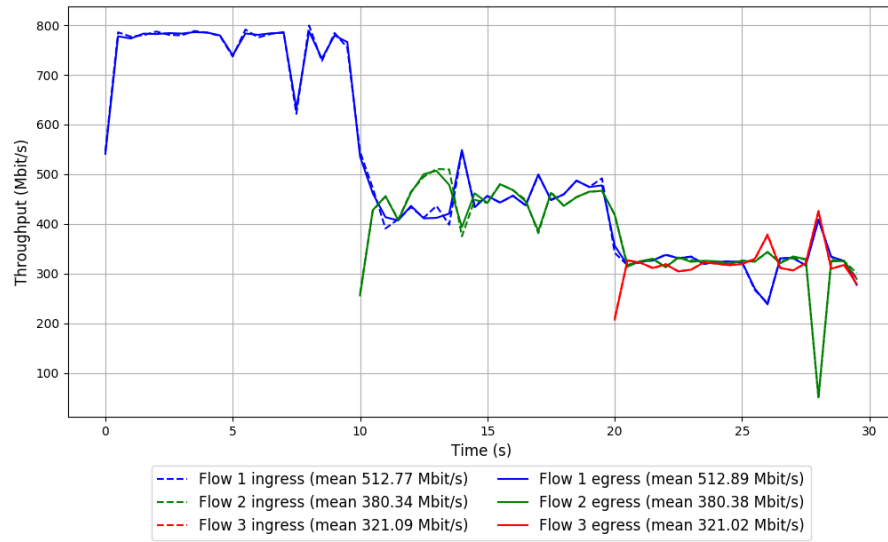


Run 7: Statistics of TCP BBR

Start at: 2018-04-24 19:53:42  
End at: 2018-04-24 19:54:12  
Local clock offset: 0.999 ms  
Remote clock offset: -5.427 ms

# Below is generated by plot.py at 2018-04-25 02:16:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 871.91 Mbit/s  
95th percentile per-packet one-way delay: 12.707 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 512.89 Mbit/s  
95th percentile per-packet one-way delay: 12.639 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 380.38 Mbit/s  
95th percentile per-packet one-way delay: 18.210 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 321.02 Mbit/s  
95th percentile per-packet one-way delay: 4.602 ms  
Loss rate: 0.22%

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

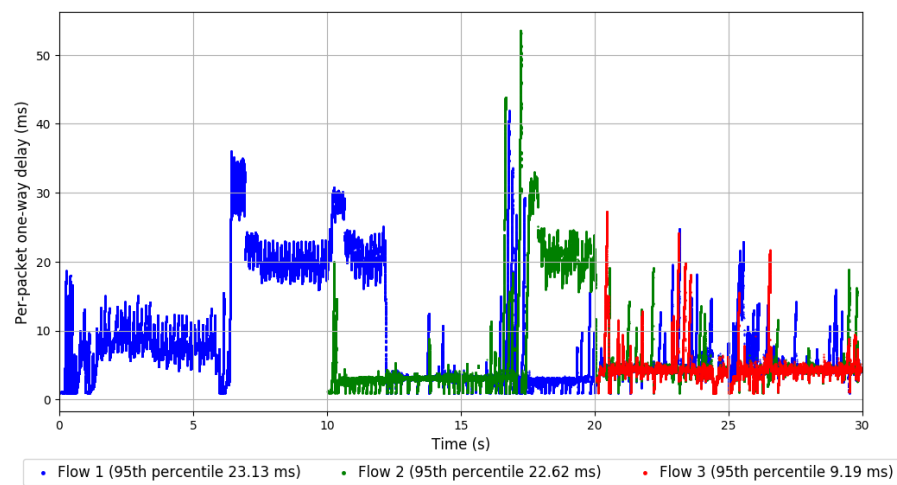
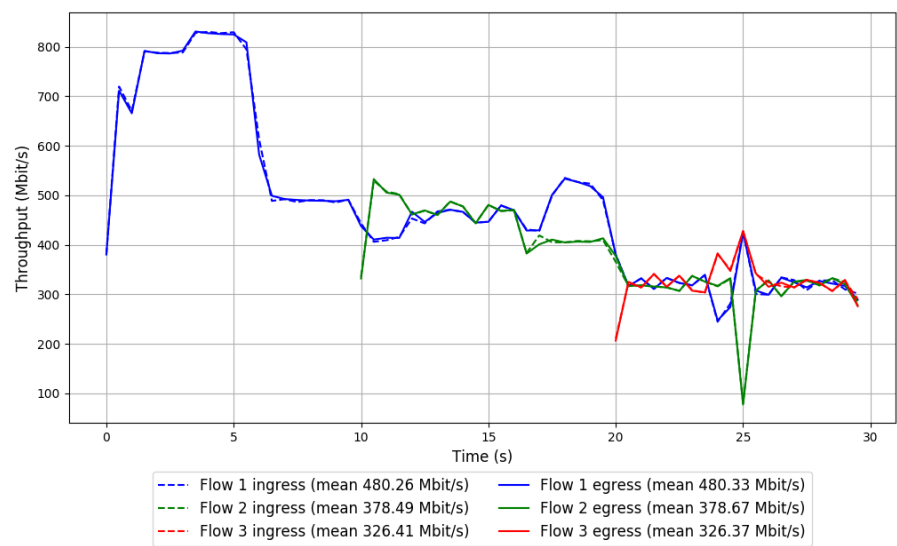


Run 8: Statistics of TCP BBR

Start at: 2018-04-24 20:20:14  
End at: 2018-04-24 20:20:44  
Local clock offset: 0.442 ms  
Remote clock offset: -5.167 ms

# Below is generated by plot.py at 2018-04-25 02:16:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 840.47 Mbit/s  
95th percentile per-packet one-way delay: 22.541 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 480.33 Mbit/s  
95th percentile per-packet one-way delay: 23.131 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 378.67 Mbit/s  
95th percentile per-packet one-way delay: 22.624 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 326.37 Mbit/s  
95th percentile per-packet one-way delay: 9.190 ms  
Loss rate: 0.23%

Run 8: Report of TCP BBR — Data Link





Run 9: Statistics of TCP BBR

Start at: 2018-04-24 20:46:42

End at: 2018-04-24 20:47:12

Local clock offset: 0.526 ms

Remote clock offset: -5.19 ms

# Below is generated by plot.py at 2018-04-25 02:28:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 850.71 Mbit/s

95th percentile per-packet one-way delay: 23.142 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 500.86 Mbit/s

95th percentile per-packet one-way delay: 18.855 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 364.86 Mbit/s

95th percentile per-packet one-way delay: 25.151 ms

Loss rate: 0.12%

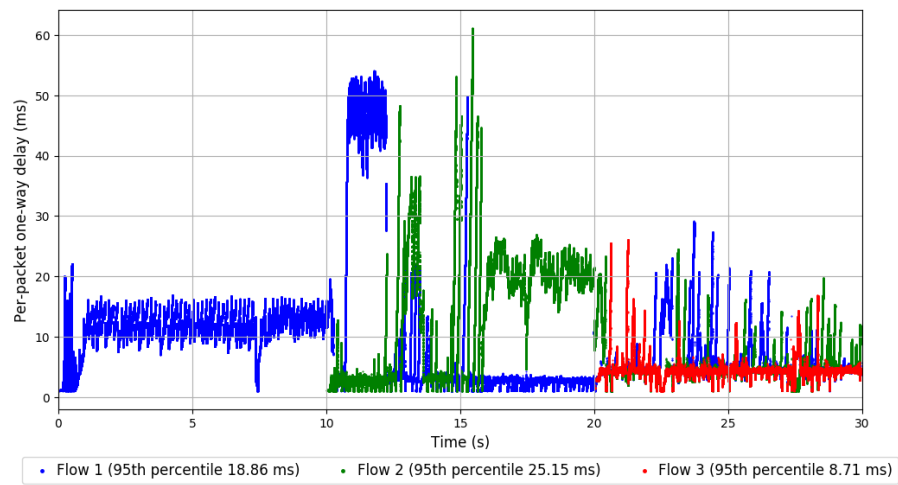
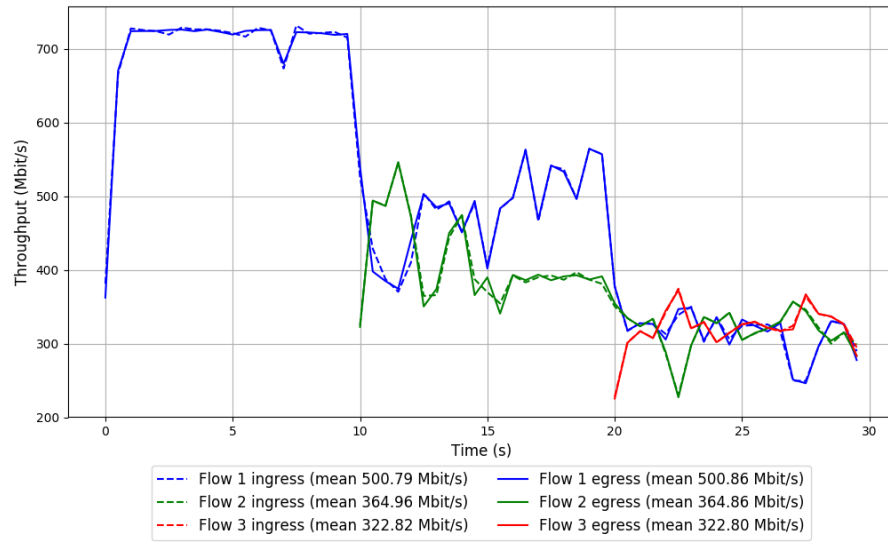
-- Flow 3:

Average throughput: 322.80 Mbit/s

95th percentile per-packet one-way delay: 8.708 ms

Loss rate: 0.23%

# Run 9: Report of TCP BBR — Data Link

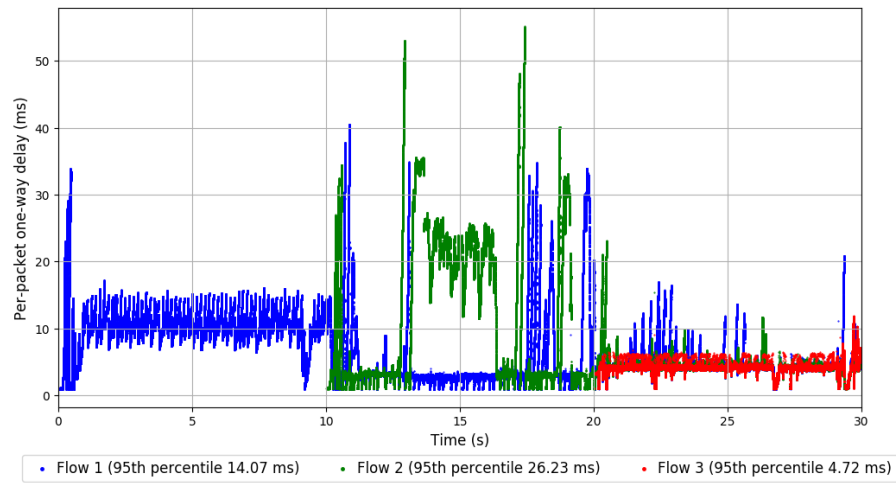
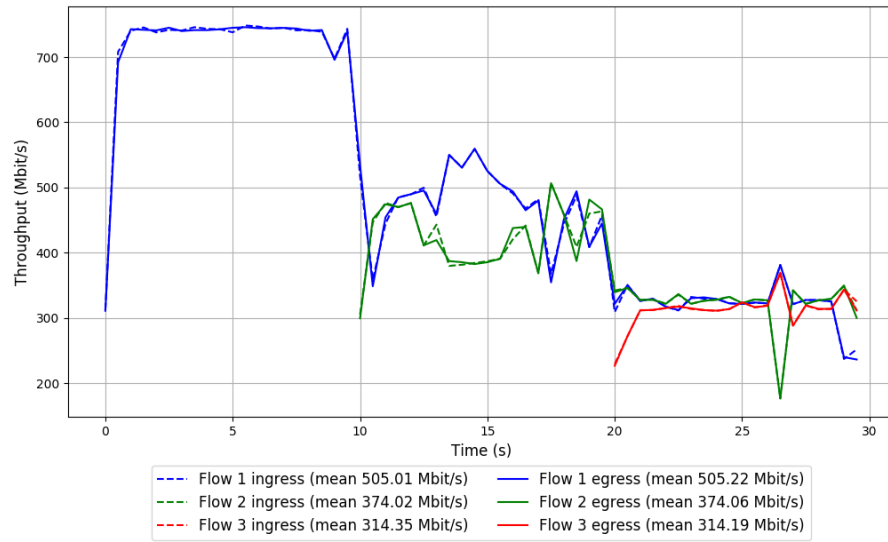


Run 10: Statistics of TCP BBR

Start at: 2018-04-24 21:13:20  
End at: 2018-04-24 21:13:50  
Local clock offset: 0.391 ms  
Remote clock offset: -5.344 ms

# Below is generated by plot.py at 2018-04-25 02:28:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 858.18 Mbit/s  
95th percentile per-packet one-way delay: 21.282 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 505.22 Mbit/s  
95th percentile per-packet one-way delay: 14.069 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 374.06 Mbit/s  
95th percentile per-packet one-way delay: 26.235 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 314.19 Mbit/s  
95th percentile per-packet one-way delay: 4.719 ms  
Loss rate: 0.26%

# Run 10: Report of TCP BBR — Data Link

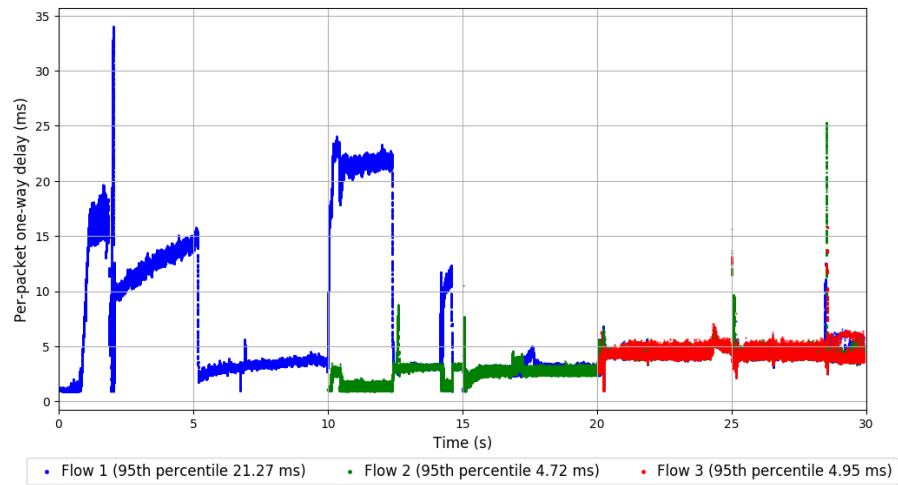
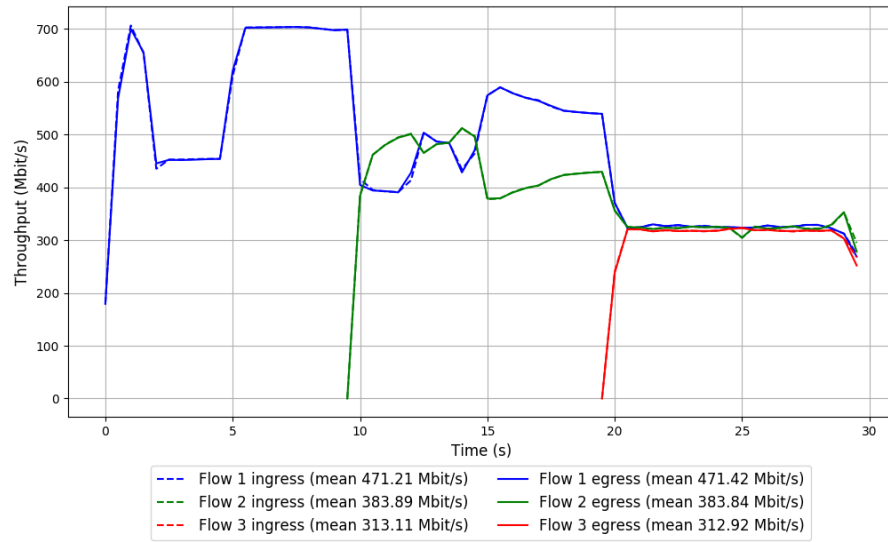


Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 17:12:18  
End at: 2018-04-24 17:12:48  
Local clock offset: 0.304 ms  
Remote clock offset: -4.902 ms

# Below is generated by plot.py at 2018-04-25 02:28:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 830.93 Mbit/s  
95th percentile per-packet one-way delay: 15.778 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 471.42 Mbit/s  
95th percentile per-packet one-way delay: 21.271 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 383.84 Mbit/s  
95th percentile per-packet one-way delay: 4.724 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 312.92 Mbit/s  
95th percentile per-packet one-way delay: 4.954 ms  
Loss rate: 0.30%

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

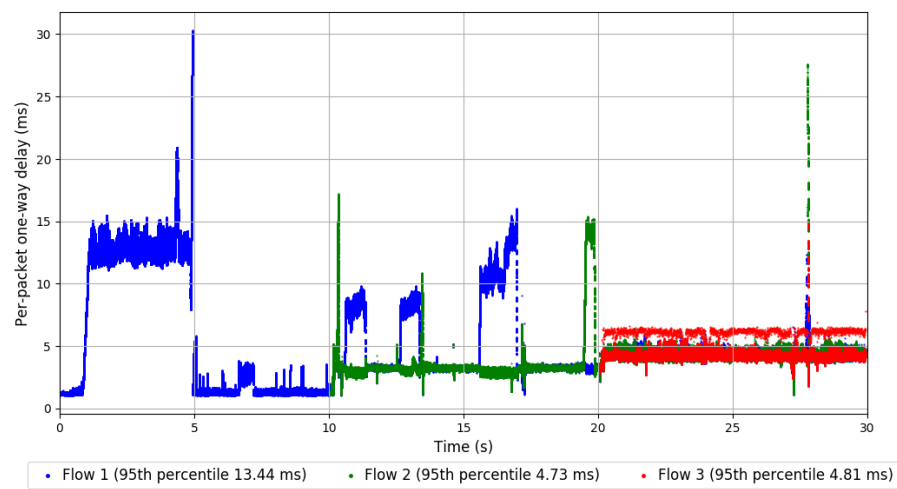
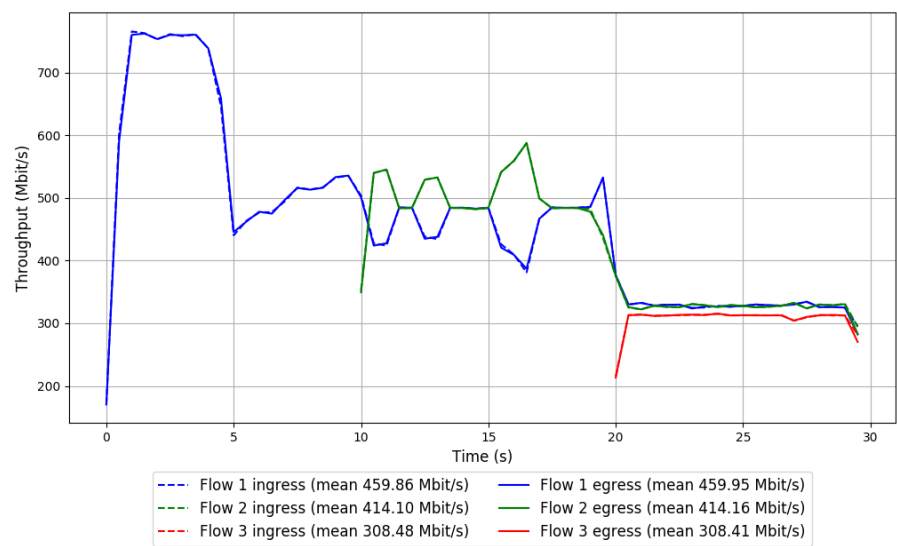


Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 17:38:55  
End at: 2018-04-24 17:39:25  
Local clock offset: 0.32 ms  
Remote clock offset: -6.097 ms

# Below is generated by plot.py at 2018-04-25 02:28:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 837.52 Mbit/s  
95th percentile per-packet one-way delay: 13.028 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 459.95 Mbit/s  
95th percentile per-packet one-way delay: 13.442 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 414.16 Mbit/s  
95th percentile per-packet one-way delay: 4.726 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 308.41 Mbit/s  
95th percentile per-packet one-way delay: 4.807 ms  
Loss rate: 0.22%

Run 2: Report of TCP Cubic — Data Link



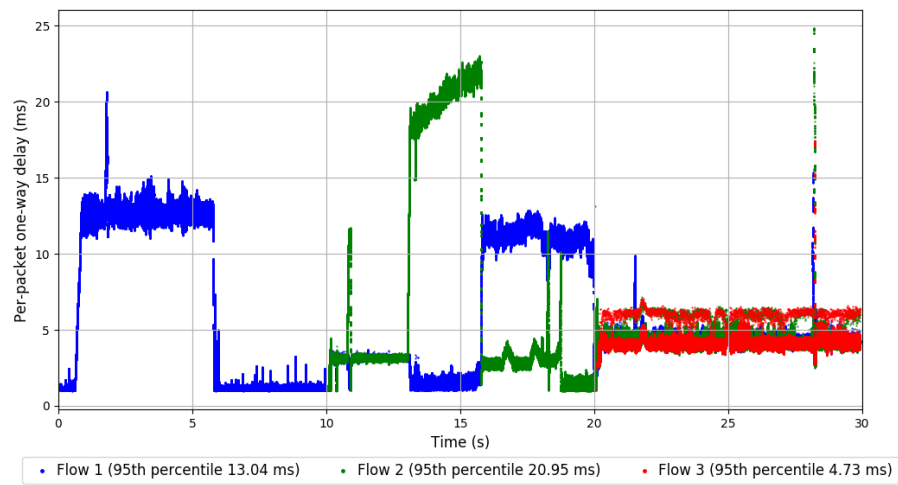
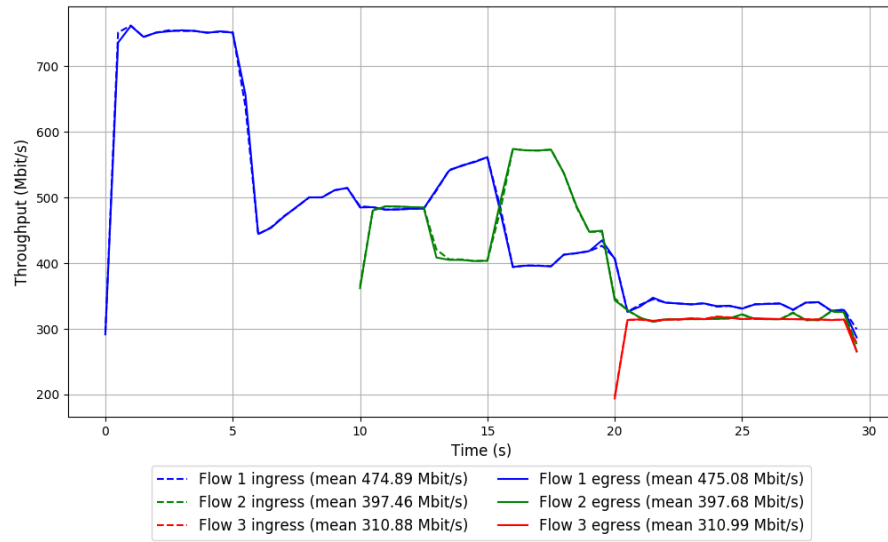


Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 18:05:32  
End at: 2018-04-24 18:06:02  
Local clock offset: -0.731 ms  
Remote clock offset: -5.475 ms

# Below is generated by plot.py at 2018-04-25 02:28:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 842.11 Mbit/s  
95th percentile per-packet one-way delay: 13.743 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 475.08 Mbit/s  
95th percentile per-packet one-way delay: 13.043 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 397.68 Mbit/s  
95th percentile per-packet one-way delay: 20.949 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 310.99 Mbit/s  
95th percentile per-packet one-way delay: 4.732 ms  
Loss rate: 0.25%

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

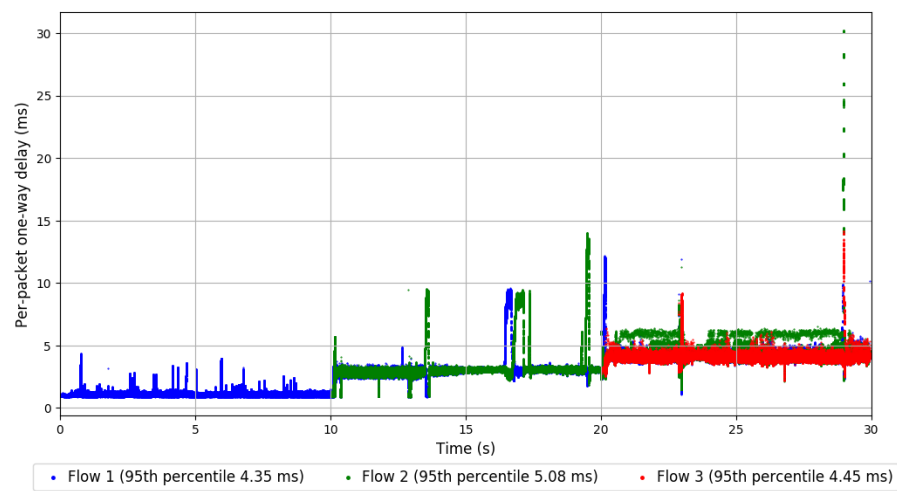
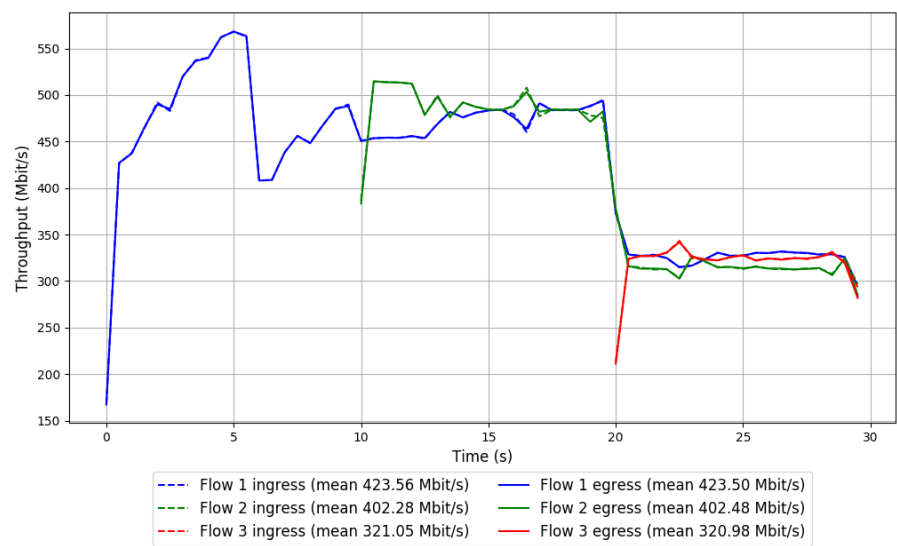


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 18:32:08  
End at: 2018-04-24 18:32:38  
Local clock offset: -1.629 ms  
Remote clock offset: -5.427 ms

# Below is generated by plot.py at 2018-04-25 02:28:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 797.65 Mbit/s  
95th percentile per-packet one-way delay: 4.556 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 423.50 Mbit/s  
95th percentile per-packet one-way delay: 4.350 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 402.48 Mbit/s  
95th percentile per-packet one-way delay: 5.082 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 320.98 Mbit/s  
95th percentile per-packet one-way delay: 4.454 ms  
Loss rate: 0.22%

Run 4: Report of TCP Cubic — Data Link

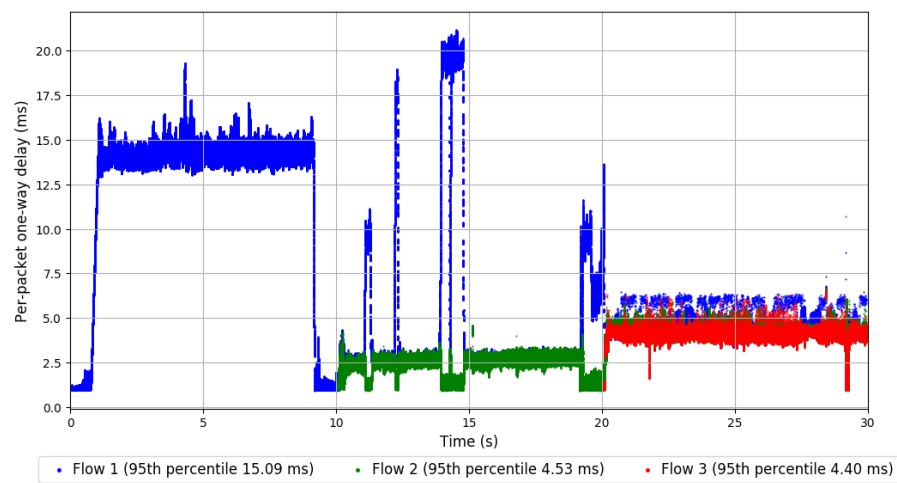
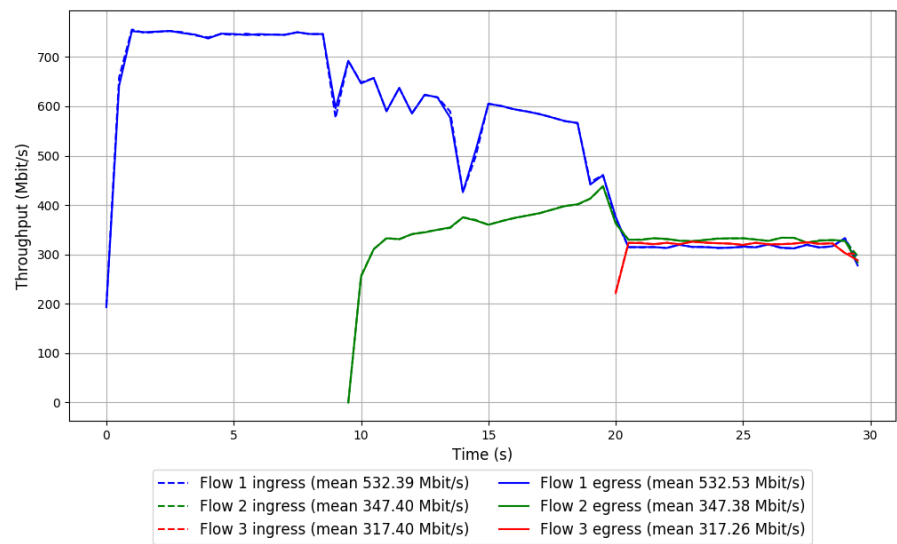


Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 18:58:32  
End at: 2018-04-24 18:59:02  
Local clock offset: 0.182 ms  
Remote clock offset: -6.421 ms

# Below is generated by plot.py at 2018-04-25 02:29:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 868.98 Mbit/s  
95th percentile per-packet one-way delay: 14.745 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 532.53 Mbit/s  
95th percentile per-packet one-way delay: 15.087 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 347.38 Mbit/s  
95th percentile per-packet one-way delay: 4.527 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 317.26 Mbit/s  
95th percentile per-packet one-way delay: 4.404 ms  
Loss rate: 0.24%

Run 5: Report of TCP Cubic — Data Link

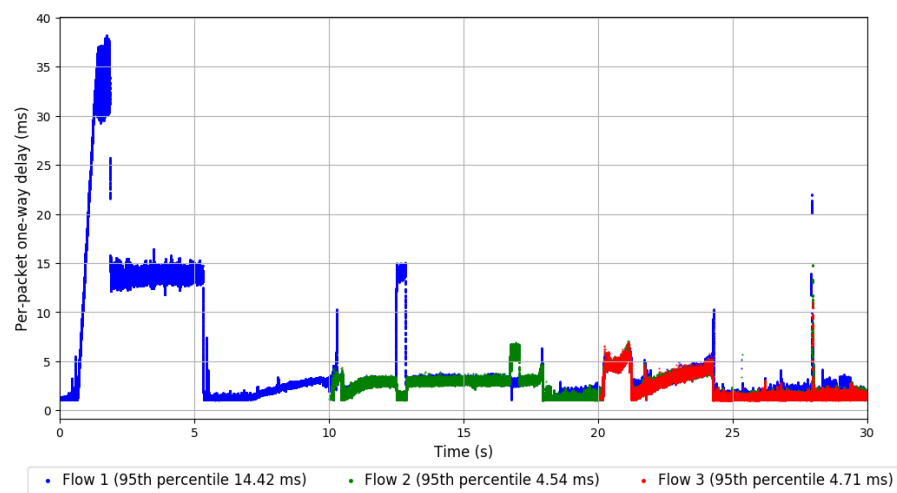
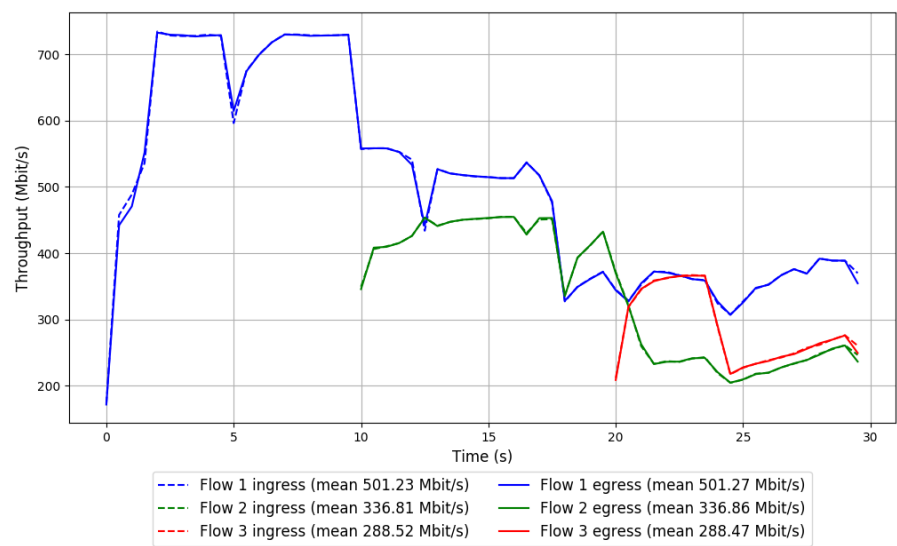


Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 19:25:15  
End at: 2018-04-24 19:25:45  
Local clock offset: 0.748 ms  
Remote clock offset: -6.117 ms

# Below is generated by plot.py at 2018-04-25 02:29:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 820.72 Mbit/s  
95th percentile per-packet one-way delay: 13.920 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 501.27 Mbit/s  
95th percentile per-packet one-way delay: 14.423 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 336.86 Mbit/s  
95th percentile per-packet one-way delay: 4.535 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 288.47 Mbit/s  
95th percentile per-packet one-way delay: 4.705 ms  
Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



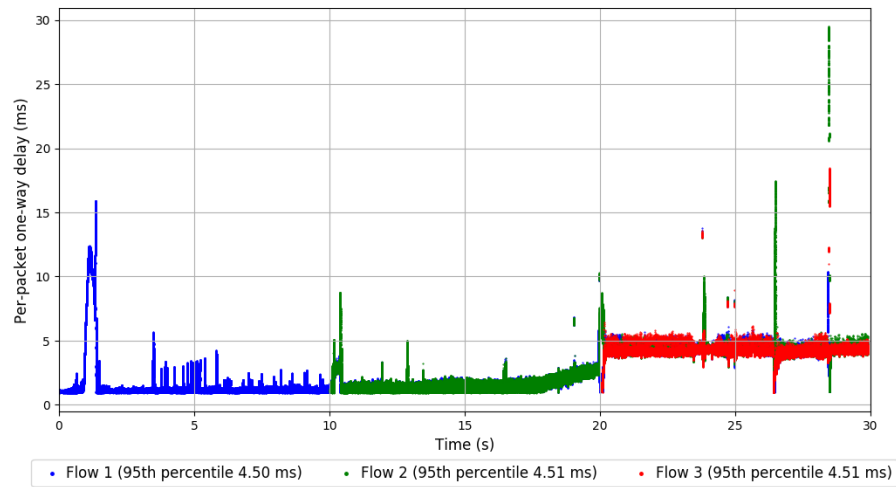
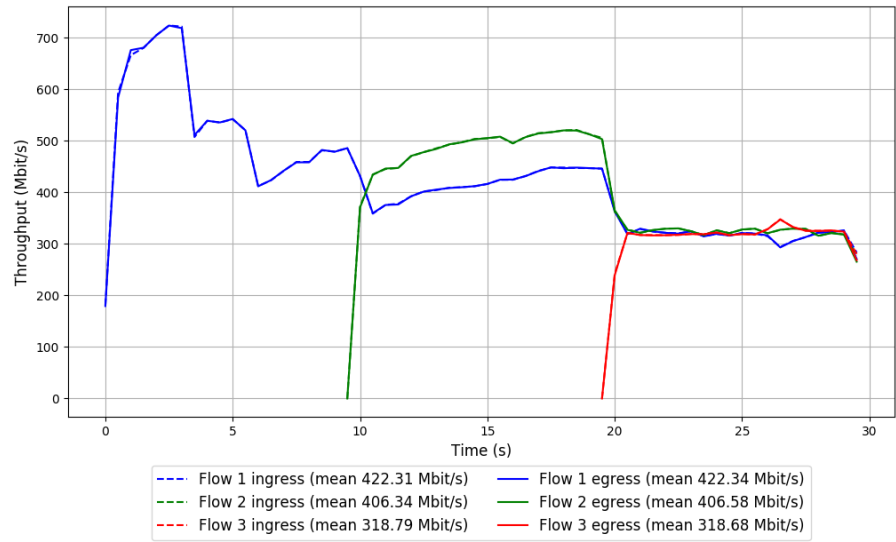


Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 19:51:54  
End at: 2018-04-24 19:52:24  
Local clock offset: 1.056 ms  
Remote clock offset: -5.394 ms

# Below is generated by plot.py at 2018-04-25 02:40:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 798.79 Mbit/s  
95th percentile per-packet one-way delay: 4.506 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 422.34 Mbit/s  
95th percentile per-packet one-way delay: 4.495 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 406.58 Mbit/s  
95th percentile per-packet one-way delay: 4.513 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 318.68 Mbit/s  
95th percentile per-packet one-way delay: 4.515 ms  
Loss rate: 0.24%

# Run 7: Report of TCP Cubic — Data Link

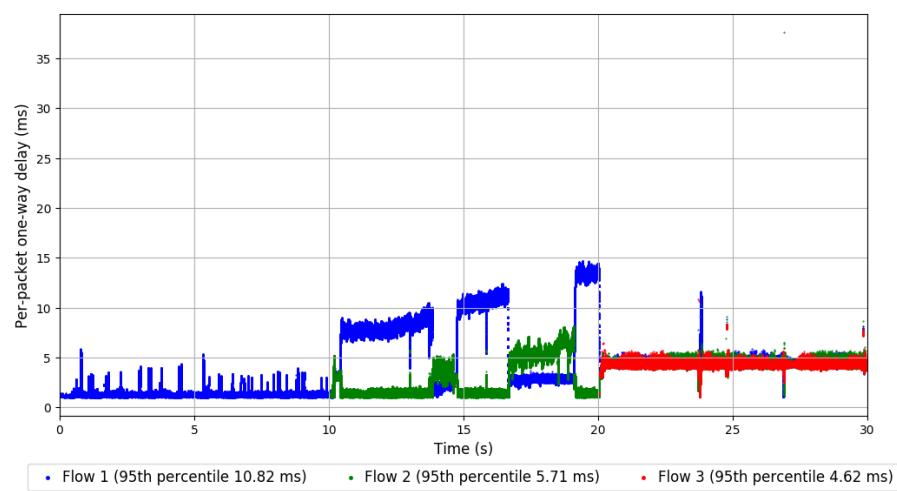
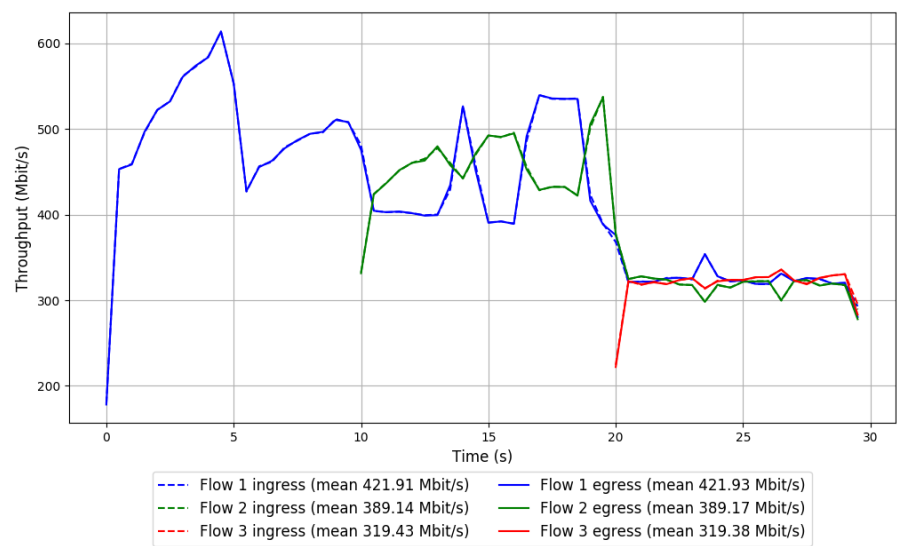


Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 20:18:26  
End at: 2018-04-24 20:18:56  
Local clock offset: 0.434 ms  
Remote clock offset: -5.263 ms

# Below is generated by plot.py at 2018-04-25 02:40:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 786.53 Mbit/s  
95th percentile per-packet one-way delay: 9.177 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 421.93 Mbit/s  
95th percentile per-packet one-way delay: 10.820 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 389.17 Mbit/s  
95th percentile per-packet one-way delay: 5.707 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 319.38 Mbit/s  
95th percentile per-packet one-way delay: 4.622 ms  
Loss rate: 0.24%

Run 8: Report of TCP Cubic — Data Link

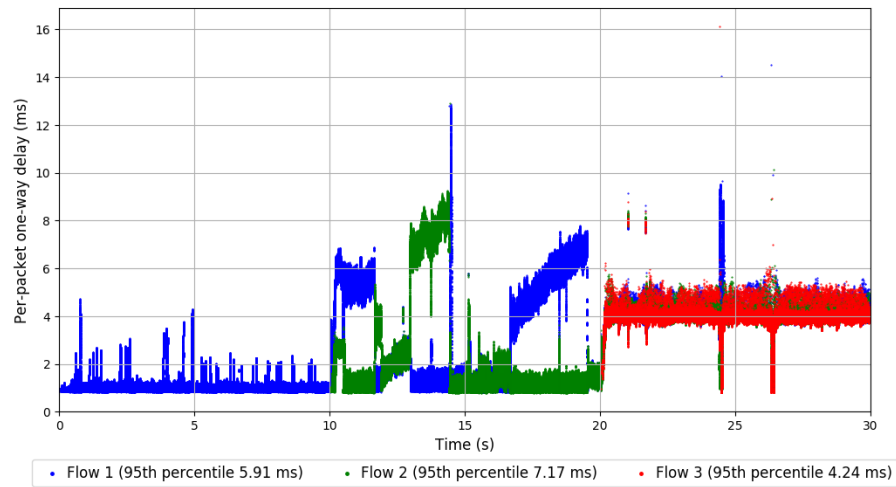
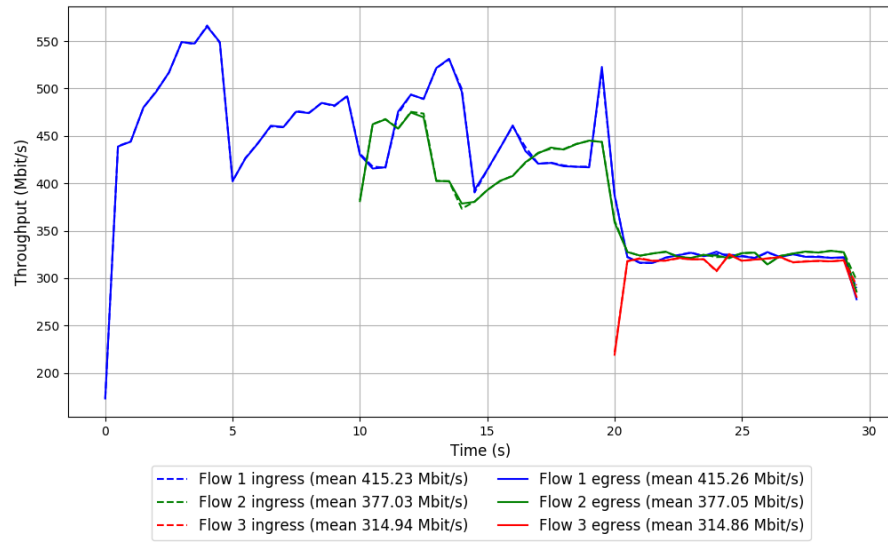


Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 20:44:55  
End at: 2018-04-24 20:45:25  
Local clock offset: 0.406 ms  
Remote clock offset: -5.084 ms

# Below is generated by plot.py at 2018-04-25 02:40:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 770.48 Mbit/s  
95th percentile per-packet one-way delay: 5.974 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 415.26 Mbit/s  
95th percentile per-packet one-way delay: 5.914 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 377.05 Mbit/s  
95th percentile per-packet one-way delay: 7.167 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 314.86 Mbit/s  
95th percentile per-packet one-way delay: 4.240 ms  
Loss rate: 0.24%

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

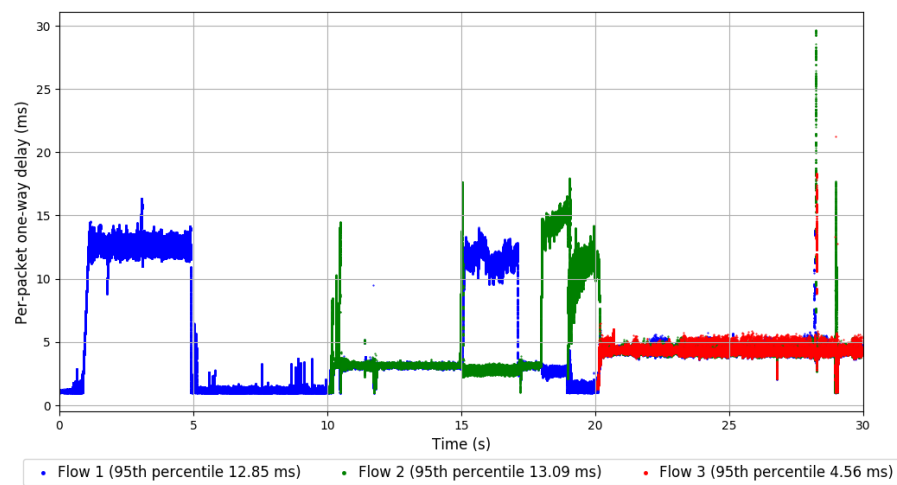
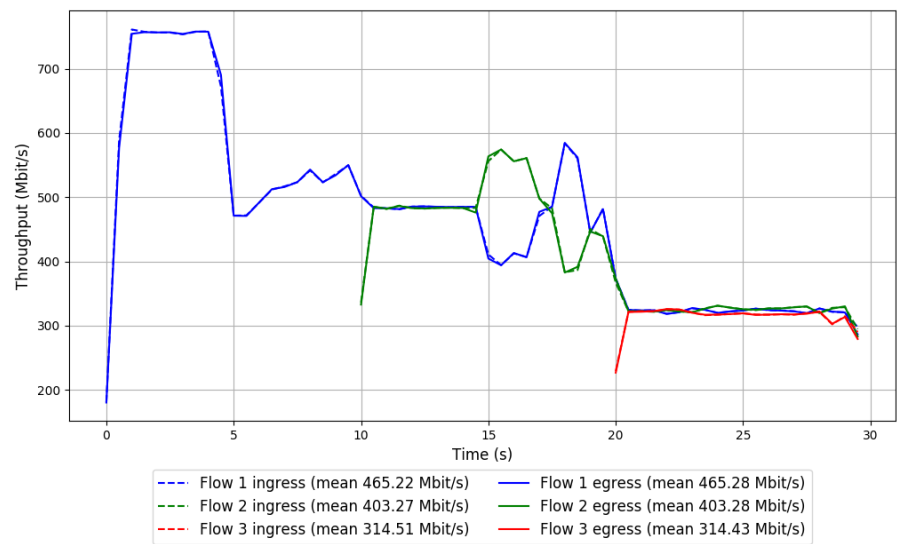


Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 21:11:30  
End at: 2018-04-24 21:12:00  
Local clock offset: 0.357 ms  
Remote clock offset: -5.404 ms

# Below is generated by plot.py at 2018-04-25 02:40:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 837.97 Mbit/s  
95th percentile per-packet one-way delay: 12.748 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 465.28 Mbit/s  
95th percentile per-packet one-way delay: 12.847 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 403.28 Mbit/s  
95th percentile per-packet one-way delay: 13.091 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 314.43 Mbit/s  
95th percentile per-packet one-way delay: 4.564 ms  
Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link



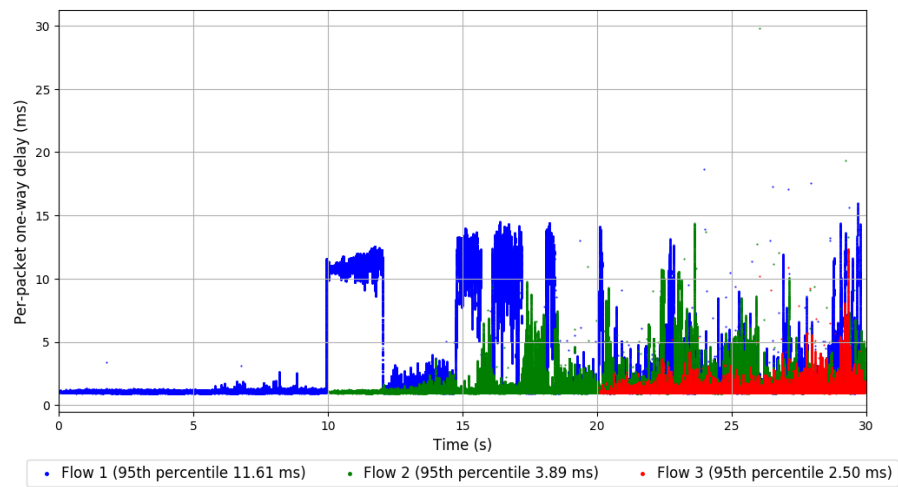
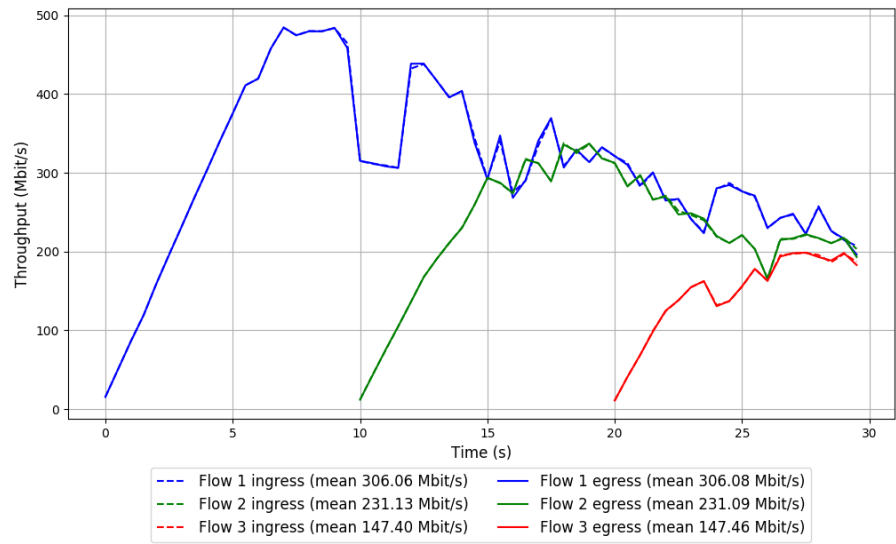


Run 1: Statistics of LEDBAT

Start at: 2018-04-24 17:06:17  
End at: 2018-04-24 17:06:47  
Local clock offset: 0.336 ms  
Remote clock offset: -5.012 ms

# Below is generated by plot.py at 2018-04-25 02:40:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 508.50 Mbit/s  
95th percentile per-packet one-way delay: 11.107 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 306.08 Mbit/s  
95th percentile per-packet one-way delay: 11.606 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 231.09 Mbit/s  
95th percentile per-packet one-way delay: 3.888 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 147.46 Mbit/s  
95th percentile per-packet one-way delay: 2.501 ms  
Loss rate: 0.16%

# Run 1: Report of LEDBAT — Data Link

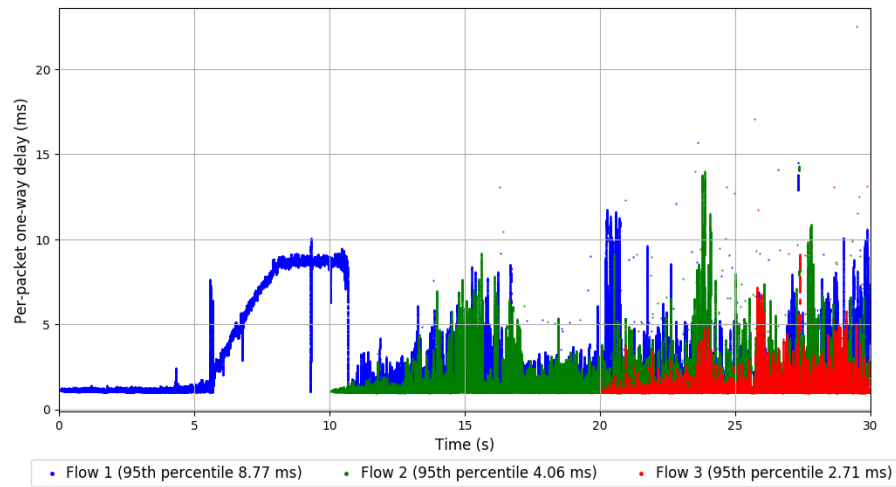
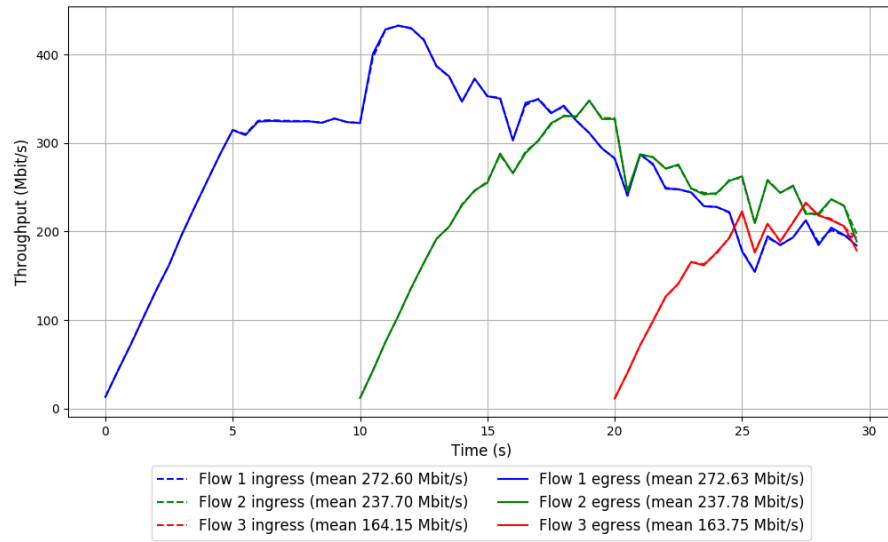


Run 2: Statistics of LEDBAT

Start at: 2018-04-24 17:32:57  
End at: 2018-04-24 17:33:27  
Local clock offset: 0.46 ms  
Remote clock offset: -5.912 ms

# Below is generated by plot.py at 2018-04-25 02:40:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 484.87 Mbit/s  
95th percentile per-packet one-way delay: 8.617 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 272.63 Mbit/s  
95th percentile per-packet one-way delay: 8.766 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 237.78 Mbit/s  
95th percentile per-packet one-way delay: 4.056 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 163.75 Mbit/s  
95th percentile per-packet one-way delay: 2.710 ms  
Loss rate: 0.44%

## Run 2: Report of LEDBAT — Data Link

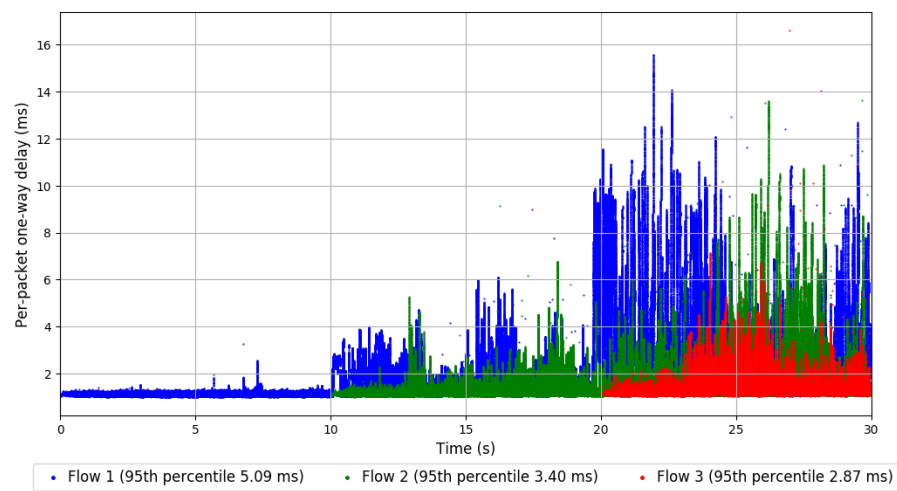
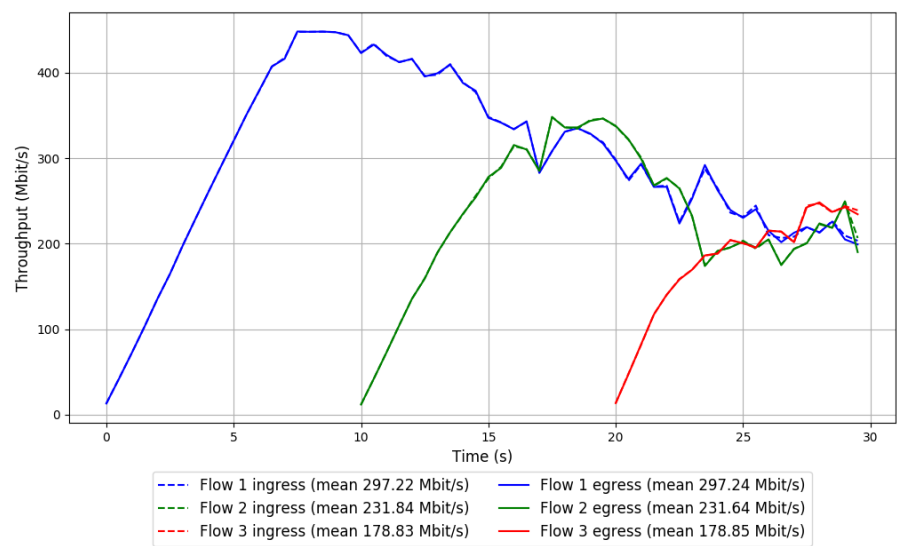


Run 3: Statistics of LEDBAT

Start at: 2018-04-24 17:59:35  
End at: 2018-04-24 18:00:05  
Local clock offset: -0.425 ms  
Remote clock offset: -5.762 ms

# Below is generated by plot.py at 2018-04-25 02:40:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 510.42 Mbit/s  
95th percentile per-packet one-way delay: 4.135 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 297.24 Mbit/s  
95th percentile per-packet one-way delay: 5.092 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 231.64 Mbit/s  
95th percentile per-packet one-way delay: 3.395 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 178.85 Mbit/s  
95th percentile per-packet one-way delay: 2.872 ms  
Loss rate: 0.17%

Run 3: Report of LEDBAT — Data Link

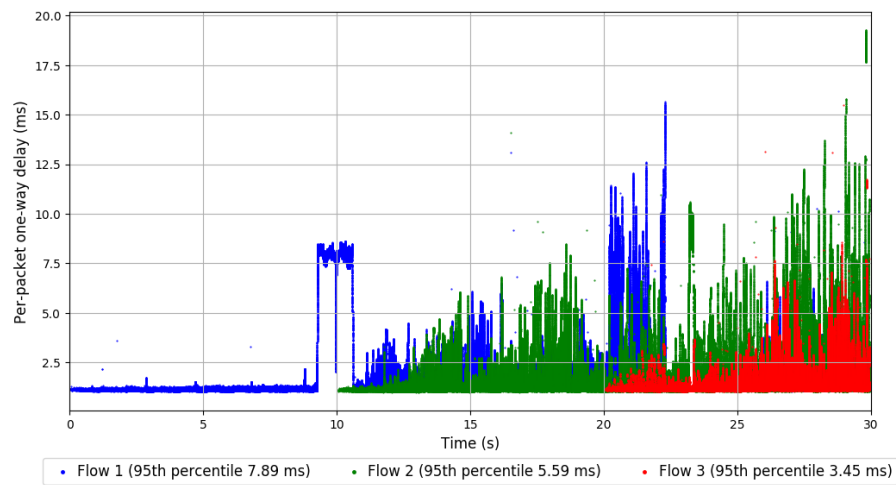
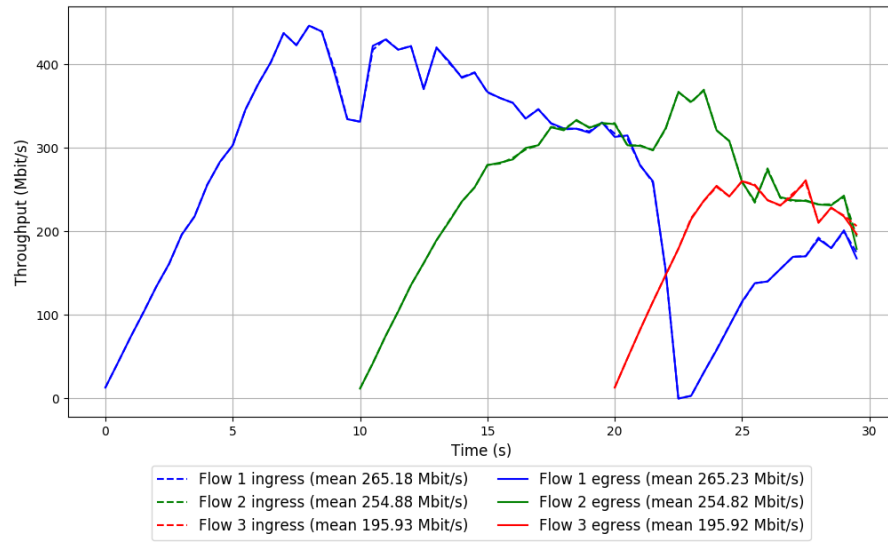


Run 4: Statistics of LEDBAT

Start at: 2018-04-24 18:26:09  
End at: 2018-04-24 18:26:39  
Local clock offset: -1.351 ms  
Remote clock offset: -4.956 ms

# Below is generated by plot.py at 2018-04-25 02:40:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 499.41 Mbit/s  
95th percentile per-packet one-way delay: 6.312 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 265.23 Mbit/s  
95th percentile per-packet one-way delay: 7.888 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 254.82 Mbit/s  
95th percentile per-packet one-way delay: 5.589 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 195.92 Mbit/s  
95th percentile per-packet one-way delay: 3.449 ms  
Loss rate: 0.28%

# Run 4: Report of LEDBAT — Data Link



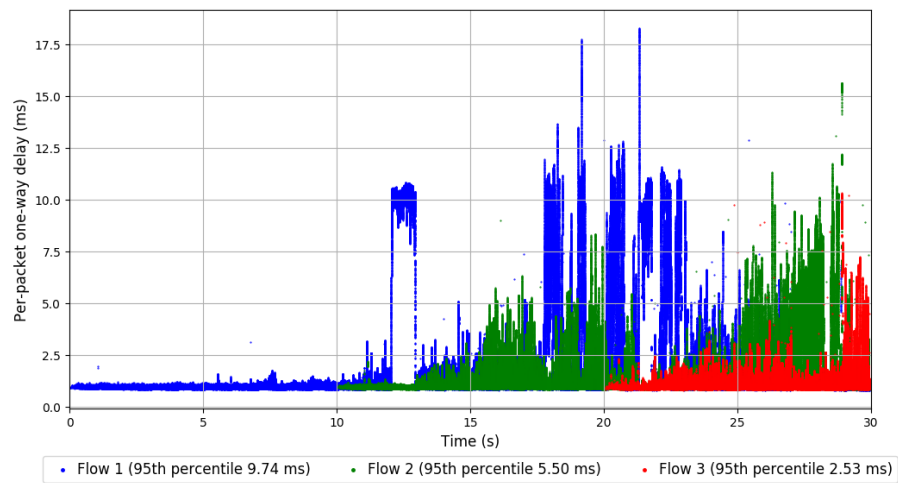
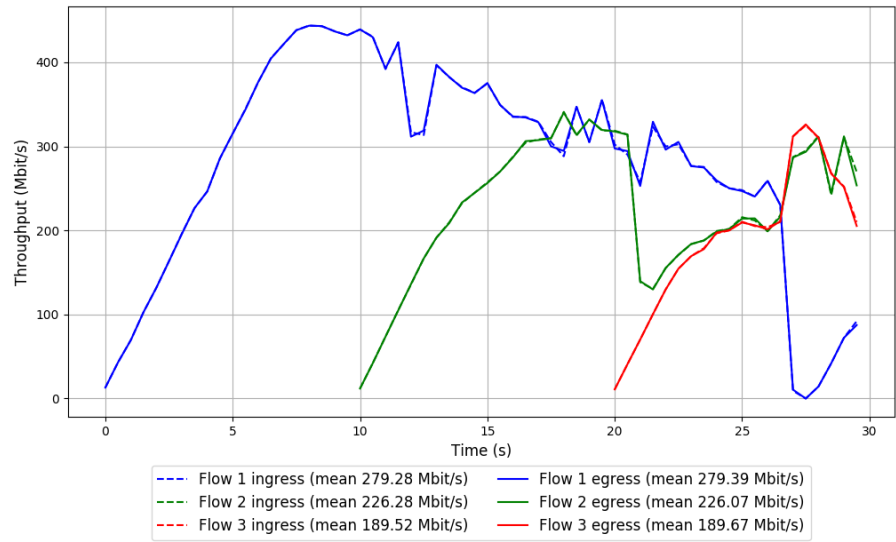


Run 5: Statistics of LEDBAT

Start at: 2018-04-24 18:52:30  
End at: 2018-04-24 18:53:00  
Local clock offset: -0.3 ms  
Remote clock offset: -6.325 ms

# Below is generated by plot.py at 2018-04-25 02:43:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 492.37 Mbit/s  
95th percentile per-packet one-way delay: 7.654 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 279.39 Mbit/s  
95th percentile per-packet one-way delay: 9.738 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 226.07 Mbit/s  
95th percentile per-packet one-way delay: 5.499 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 189.67 Mbit/s  
95th percentile per-packet one-way delay: 2.531 ms  
Loss rate: 0.18%

## Run 5: Report of LEDBAT — Data Link

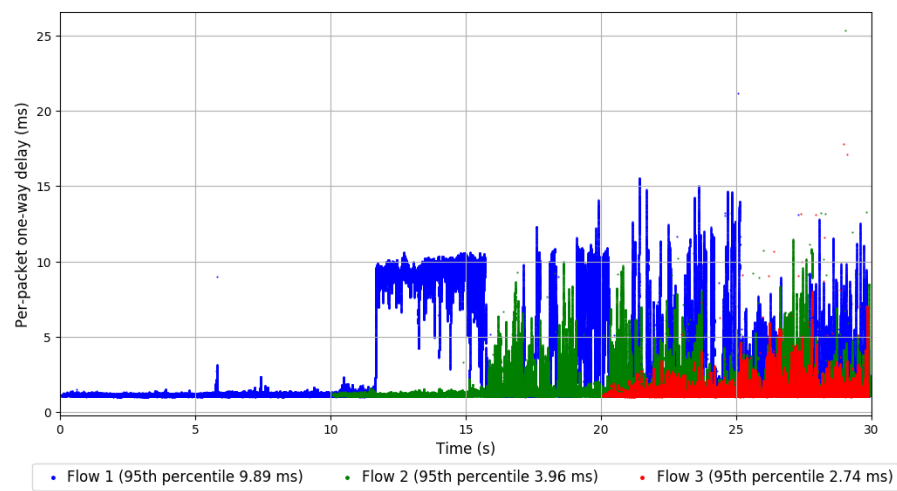
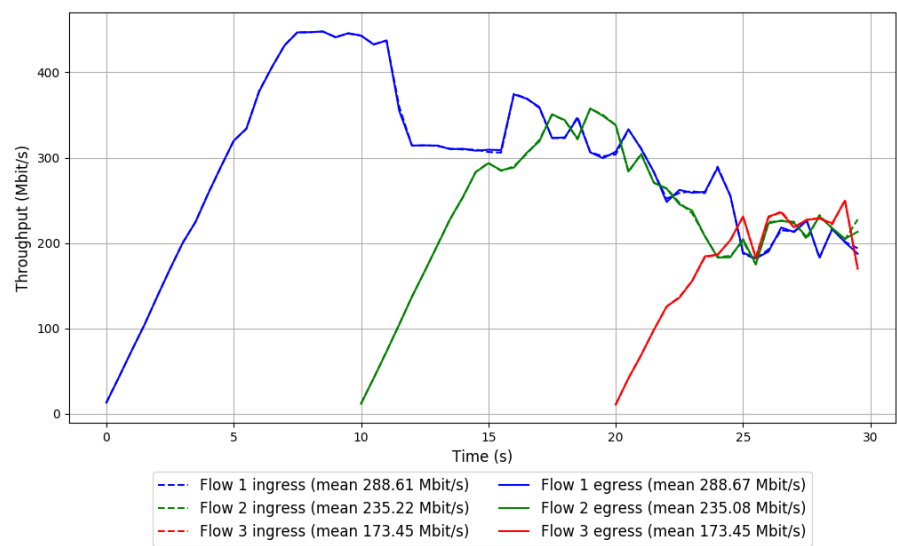


Run 6: Statistics of LEDBAT

Start at: 2018-04-24 19:19:15  
End at: 2018-04-24 19:19:45  
Local clock offset: 0.825 ms  
Remote clock offset: -6.149 ms

# Below is generated by plot.py at 2018-04-25 02:44:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 501.93 Mbit/s  
95th percentile per-packet one-way delay: 9.608 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 288.67 Mbit/s  
95th percentile per-packet one-way delay: 9.887 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 235.08 Mbit/s  
95th percentile per-packet one-way delay: 3.961 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 173.45 Mbit/s  
95th percentile per-packet one-way delay: 2.741 ms  
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-24 19:45:54

End at: 2018-04-24 19:46:24

Local clock offset: 1.048 ms

Remote clock offset: -5.55 ms

# Below is generated by plot.py at 2018-04-25 02:44:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 504.88 Mbit/s

95th percentile per-packet one-way delay: 3.843 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 294.47 Mbit/s

95th percentile per-packet one-way delay: 2.932 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 231.23 Mbit/s

95th percentile per-packet one-way delay: 5.389 ms

Loss rate: 0.10%

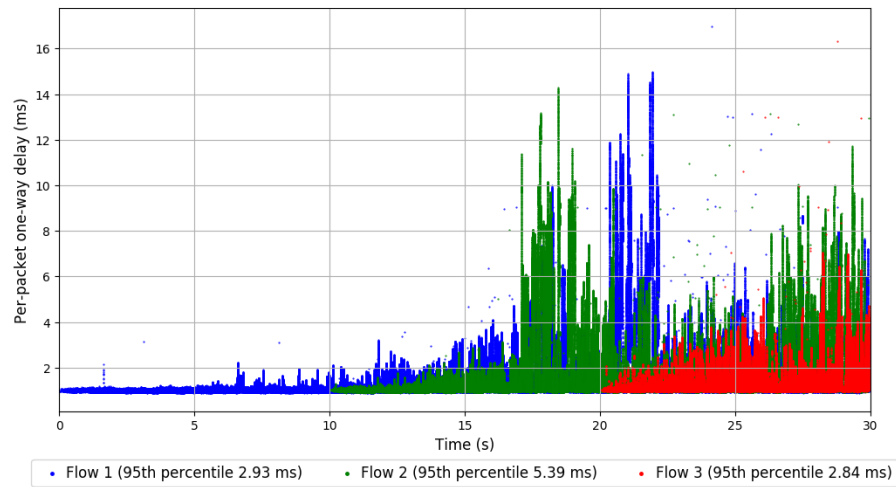
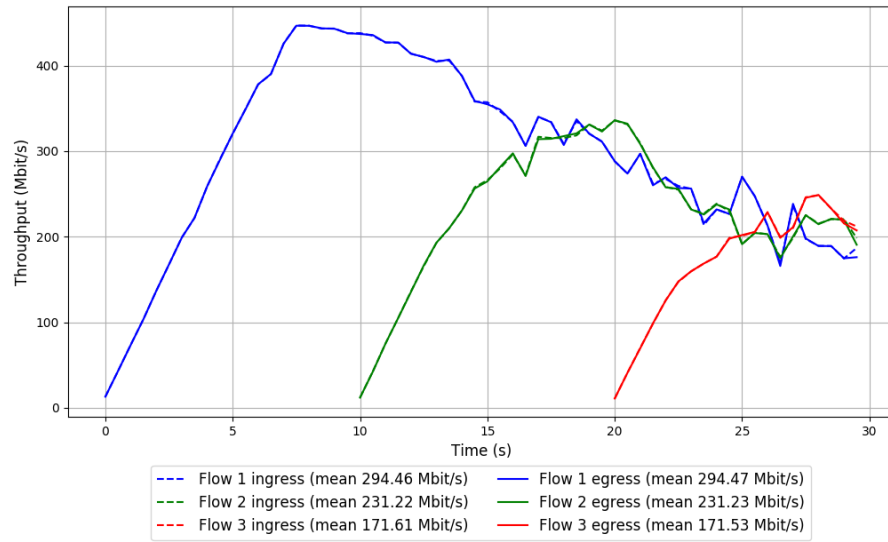
-- Flow 3:

Average throughput: 171.53 Mbit/s

95th percentile per-packet one-way delay: 2.836 ms

Loss rate: 0.23%

## Run 7: Report of LEDBAT — Data Link

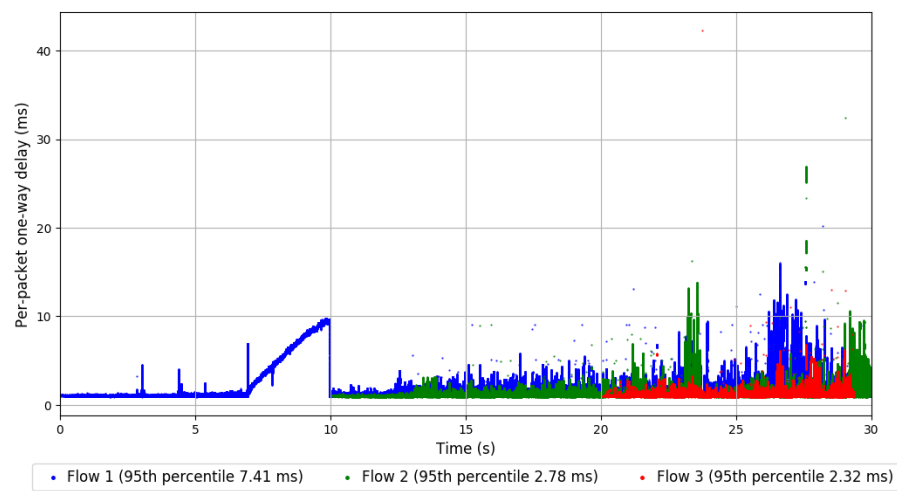
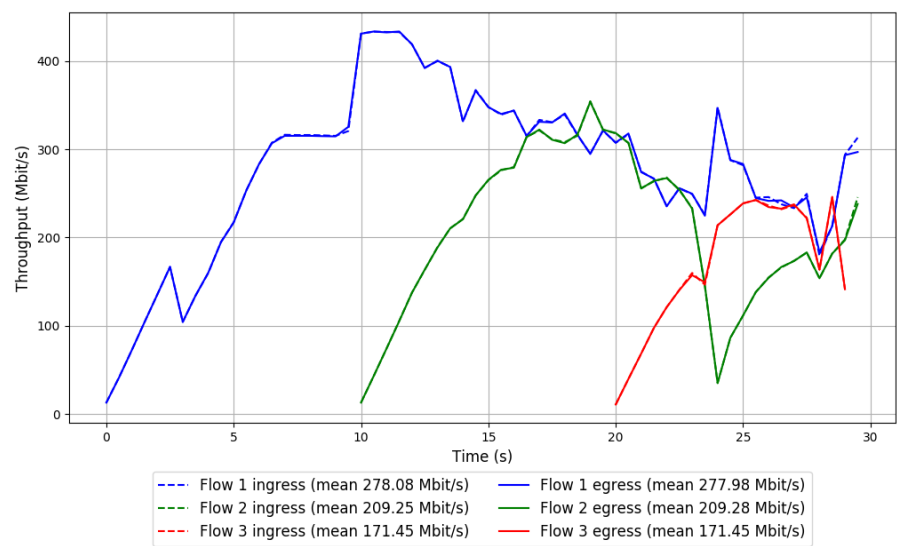


Run 8: Statistics of LEDBAT

Start at: 2018-04-24 20:12:25  
End at: 2018-04-24 20:12:55  
Local clock offset: 0.382 ms  
Remote clock offset: -5.207 ms

# Below is generated by plot.py at 2018-04-25 02:44:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 470.37 Mbit/s  
95th percentile per-packet one-way delay: 5.906 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 277.98 Mbit/s  
95th percentile per-packet one-way delay: 7.409 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 209.28 Mbit/s  
95th percentile per-packet one-way delay: 2.778 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 171.45 Mbit/s  
95th percentile per-packet one-way delay: 2.317 ms  
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



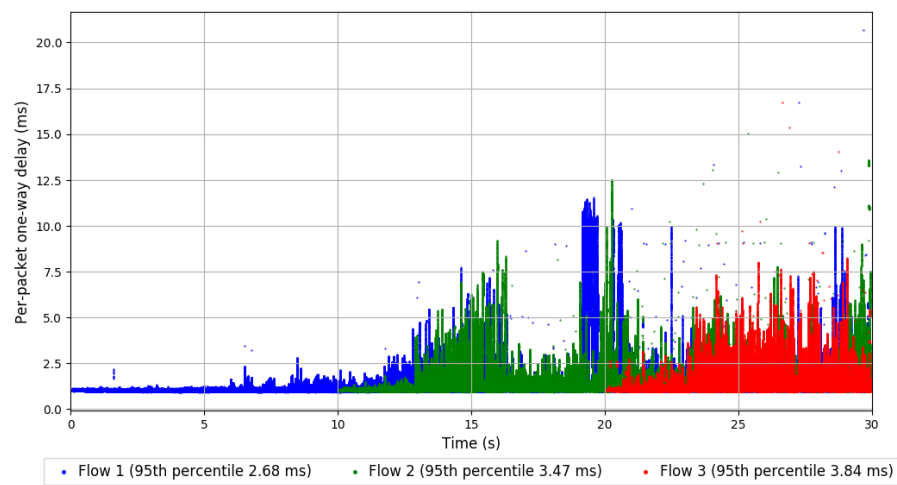
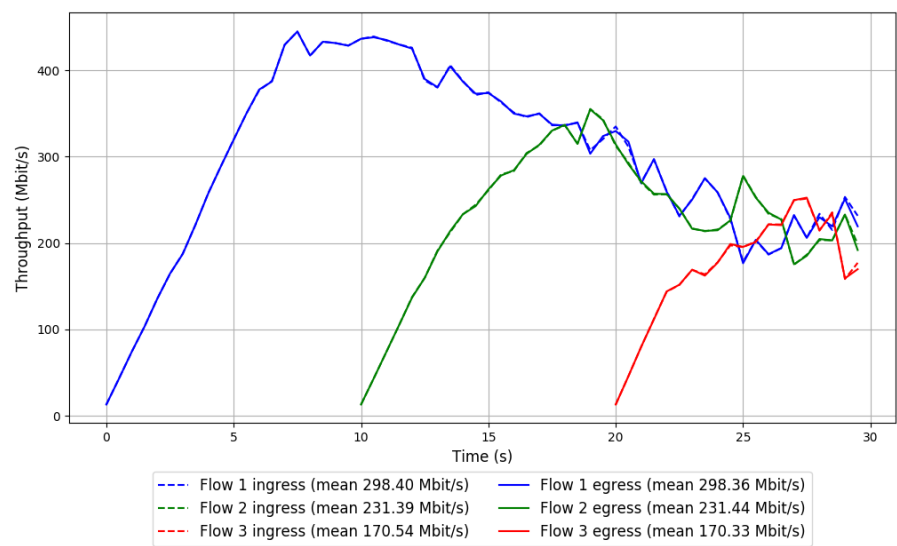


Run 9: Statistics of LEDBAT

Start at: 2018-04-24 20:38:56  
End at: 2018-04-24 20:39:26  
Local clock offset: 0.475 ms  
Remote clock offset: -5.136 ms

# Below is generated by plot.py at 2018-04-25 02:47:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 508.63 Mbit/s  
95th percentile per-packet one-way delay: 3.228 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 298.36 Mbit/s  
95th percentile per-packet one-way delay: 2.683 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 231.44 Mbit/s  
95th percentile per-packet one-way delay: 3.473 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 170.33 Mbit/s  
95th percentile per-packet one-way delay: 3.837 ms  
Loss rate: 0.24%

Run 9: Report of LEDBAT — Data Link

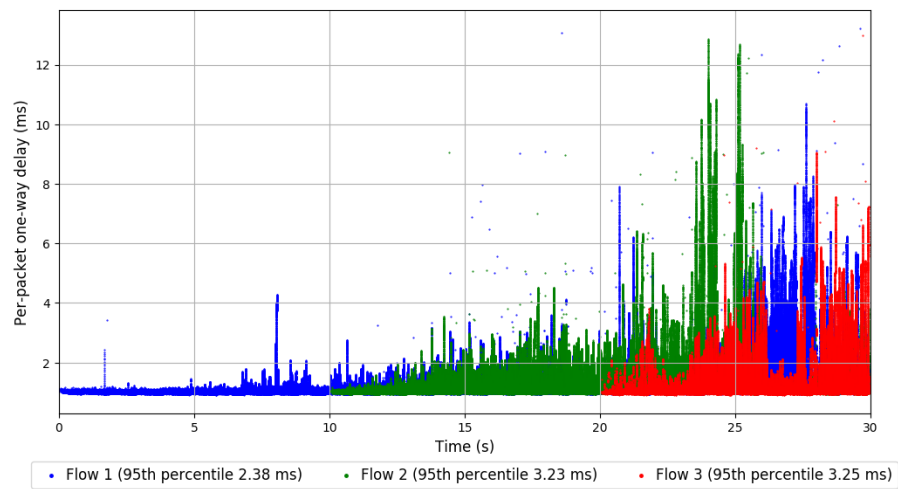
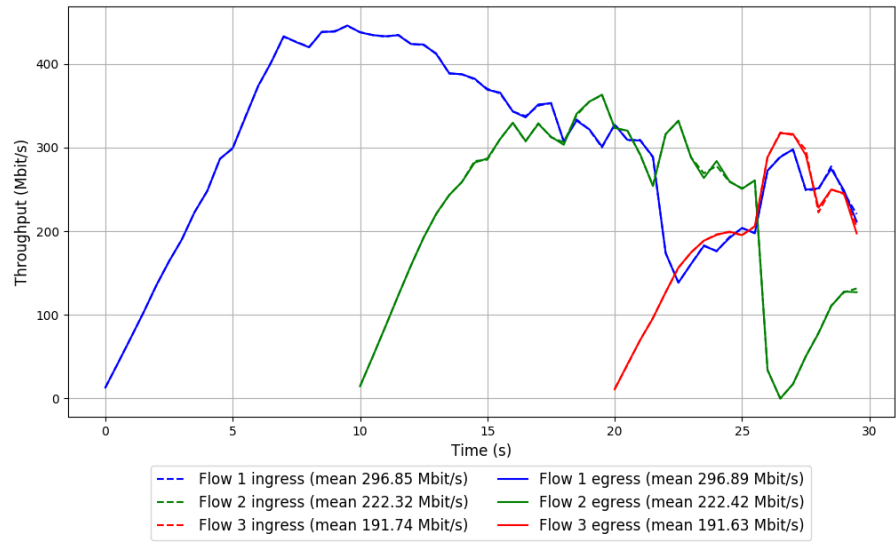


Run 10: Statistics of LEDBAT

Start at: 2018-04-24 21:05:31  
End at: 2018-04-24 21:06:01  
Local clock offset: 0.385 ms  
Remote clock offset: -5.394 ms

# Below is generated by plot.py at 2018-04-25 02:47:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 508.14 Mbit/s  
95th percentile per-packet one-way delay: 2.758 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 296.89 Mbit/s  
95th percentile per-packet one-way delay: 2.377 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 222.42 Mbit/s  
95th percentile per-packet one-way delay: 3.232 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 191.63 Mbit/s  
95th percentile per-packet one-way delay: 3.246 ms  
Loss rate: 0.23%

## Run 10: Report of LEDBAT — Data Link

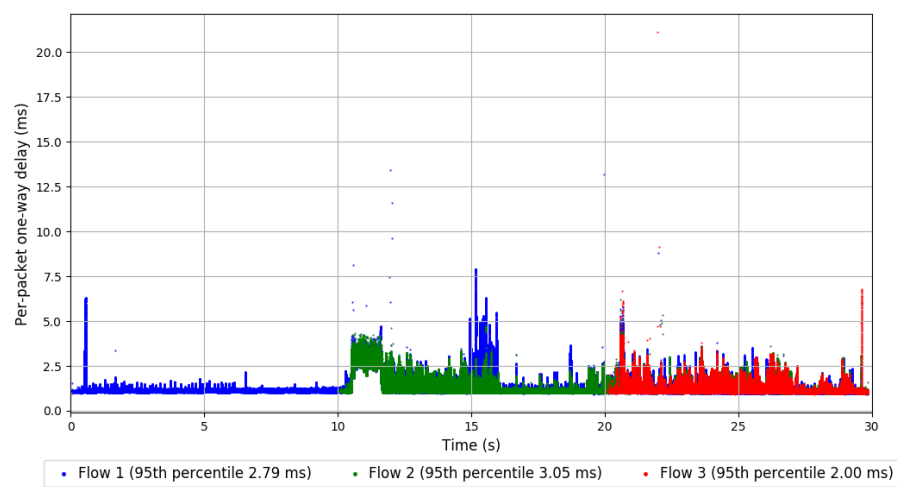
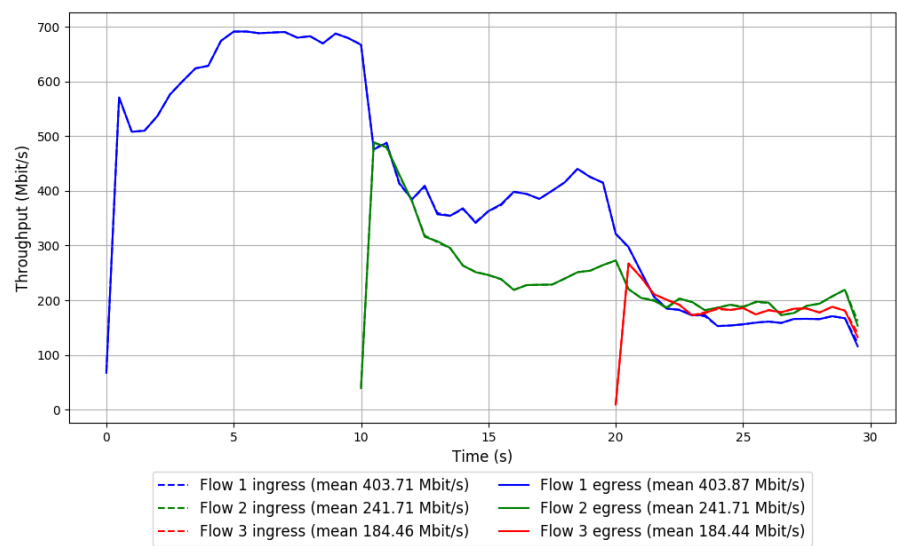


Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 17:23:50  
End at: 2018-04-24 17:24:20  
Local clock offset: 0.457 ms  
Remote clock offset: -5.229 ms

# Below is generated by plot.py at 2018-04-25 02:48:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 624.90 Mbit/s  
95th percentile per-packet one-way delay: 2.899 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 403.87 Mbit/s  
95th percentile per-packet one-way delay: 2.792 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 241.71 Mbit/s  
95th percentile per-packet one-way delay: 3.047 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 184.44 Mbit/s  
95th percentile per-packet one-way delay: 2.002 ms  
Loss rate: 0.21%

Run 1: Report of PCC-Allegro — Data Link

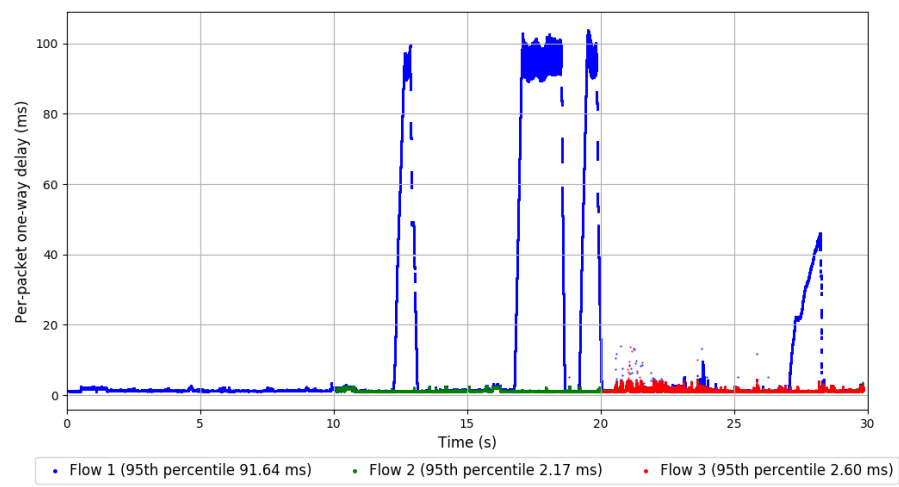
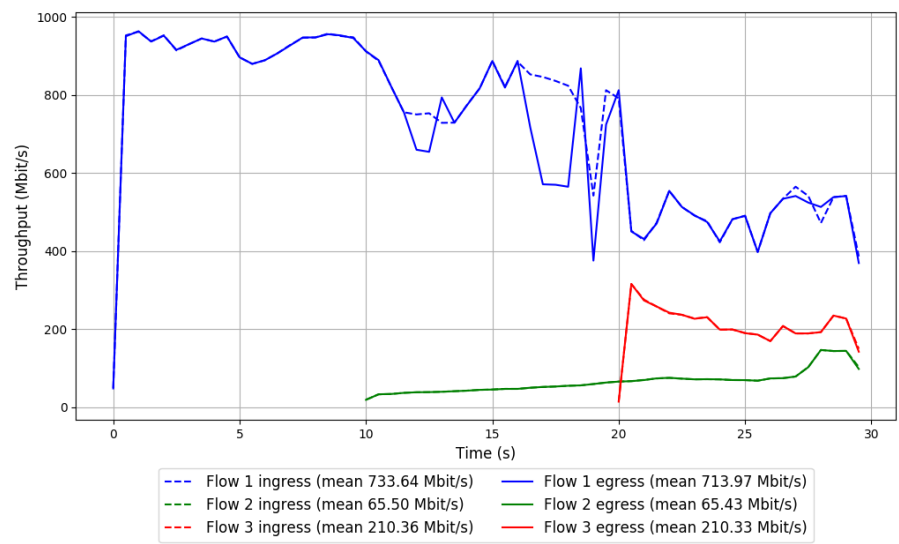


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 17:50:26  
End at: 2018-04-24 17:50:56  
Local clock offset: -0.082 ms  
Remote clock offset: -6.215 ms

# Below is generated by plot.py at 2018-04-25 02:53:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 826.44 Mbit/s  
95th percentile per-packet one-way delay: 88.249 ms  
Loss rate: 2.42%  
-- Flow 1:  
Average throughput: 713.97 Mbit/s  
95th percentile per-packet one-way delay: 91.639 ms  
Loss rate: 2.76%  
-- Flow 2:  
Average throughput: 65.43 Mbit/s  
95th percentile per-packet one-way delay: 2.166 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 210.33 Mbit/s  
95th percentile per-packet one-way delay: 2.596 ms  
Loss rate: 0.19%

Run 2: Report of PCC-Allegro — Data Link



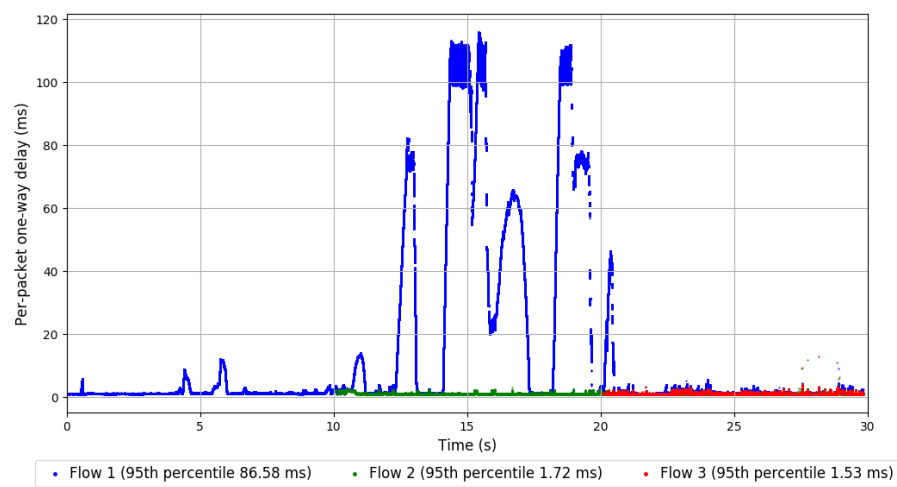
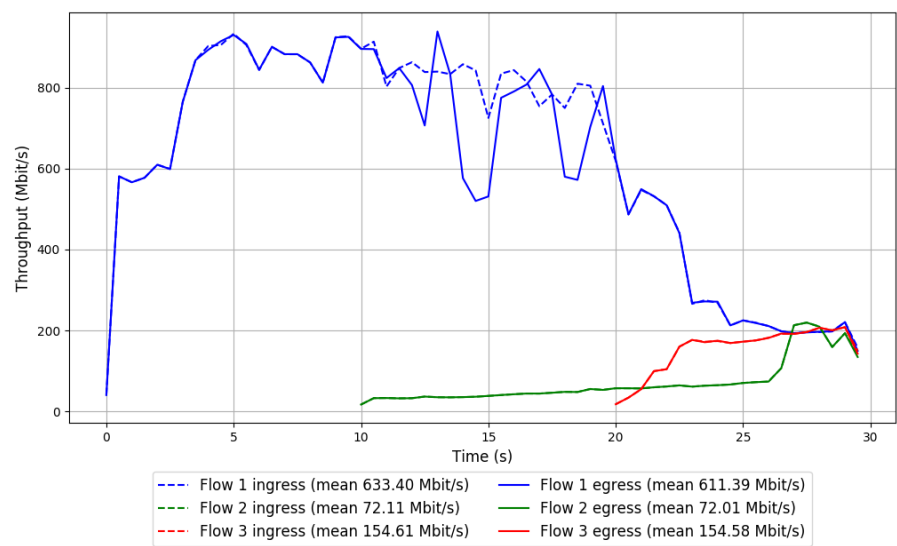


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 18:17:03  
End at: 2018-04-24 18:17:33  
Local clock offset: -1.06 ms  
Remote clock offset: -5.159 ms

# Below is generated by plot.py at 2018-04-25 02:54:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 709.95 Mbit/s  
95th percentile per-packet one-way delay: 77.625 ms  
Loss rate: 3.09%  
-- Flow 1:  
Average throughput: 611.39 Mbit/s  
95th percentile per-packet one-way delay: 86.581 ms  
Loss rate: 3.53%  
-- Flow 2:  
Average throughput: 72.01 Mbit/s  
95th percentile per-packet one-way delay: 1.715 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 154.58 Mbit/s  
95th percentile per-packet one-way delay: 1.535 ms  
Loss rate: 0.26%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 18:43:21

End at: 2018-04-24 18:43:51

Local clock offset: -1.826 ms

Remote clock offset: -6.16 ms

# Below is generated by plot.py at 2018-04-25 02:56:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 781.96 Mbit/s

95th percentile per-packet one-way delay: 77.046 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 649.06 Mbit/s

95th percentile per-packet one-way delay: 80.419 ms

Loss rate: 3.00%

-- Flow 2:

Average throughput: 131.77 Mbit/s

95th percentile per-packet one-way delay: 2.024 ms

Loss rate: 0.12%

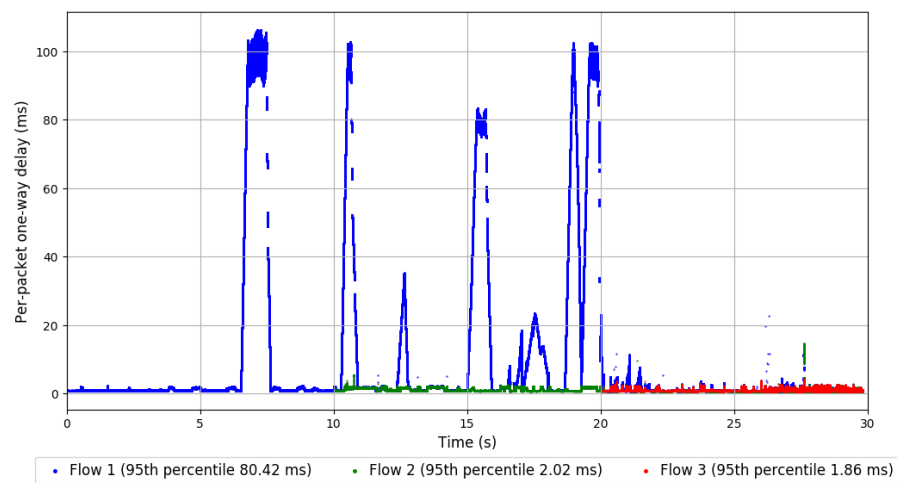
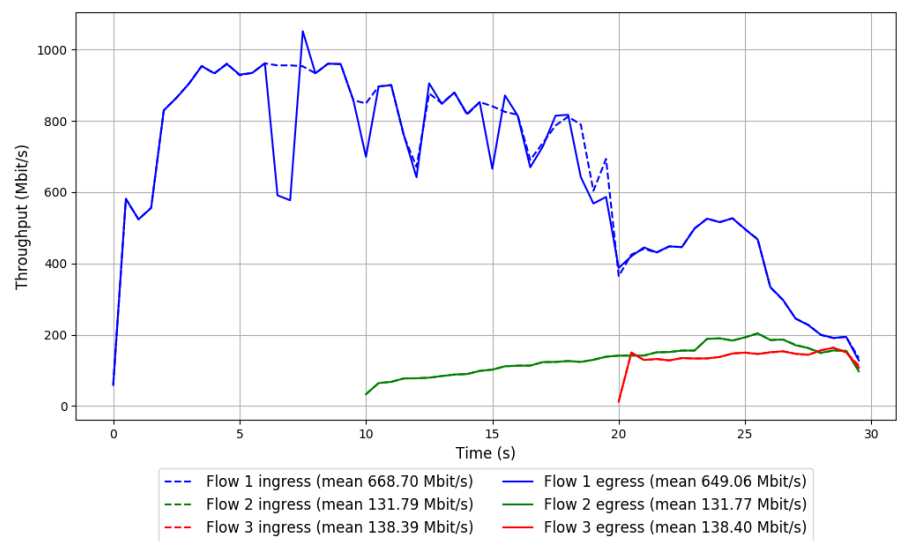
-- Flow 3:

Average throughput: 138.40 Mbit/s

95th percentile per-packet one-way delay: 1.856 ms

Loss rate: 0.21%

Run 4: Report of PCC-Allegro — Data Link

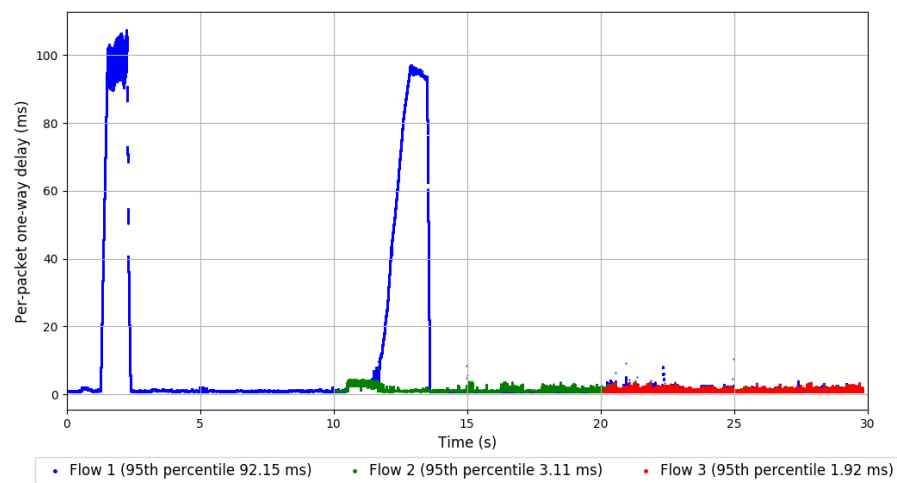
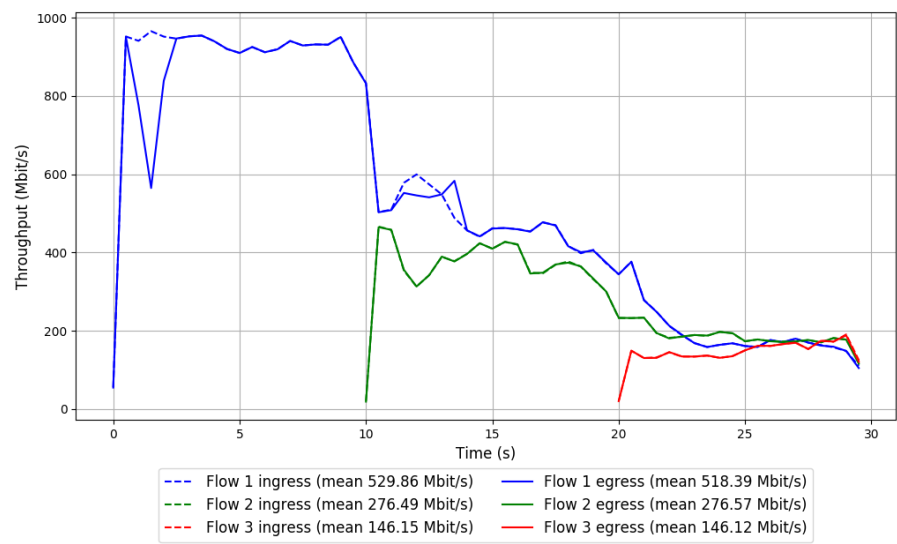


Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 19:10:06  
End at: 2018-04-24 19:10:36  
Local clock offset: 0.695 ms  
Remote clock offset: -6.213 ms

# Below is generated by plot.py at 2018-04-25 02:56:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 749.83 Mbit/s  
95th percentile per-packet one-way delay: 63.309 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 518.39 Mbit/s  
95th percentile per-packet one-way delay: 92.146 ms  
Loss rate: 2.23%  
-- Flow 2:  
Average throughput: 276.57 Mbit/s  
95th percentile per-packet one-way delay: 3.111 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 146.12 Mbit/s  
95th percentile per-packet one-way delay: 1.916 ms  
Loss rate: 0.23%

Run 5: Report of PCC-Allegro — Data Link

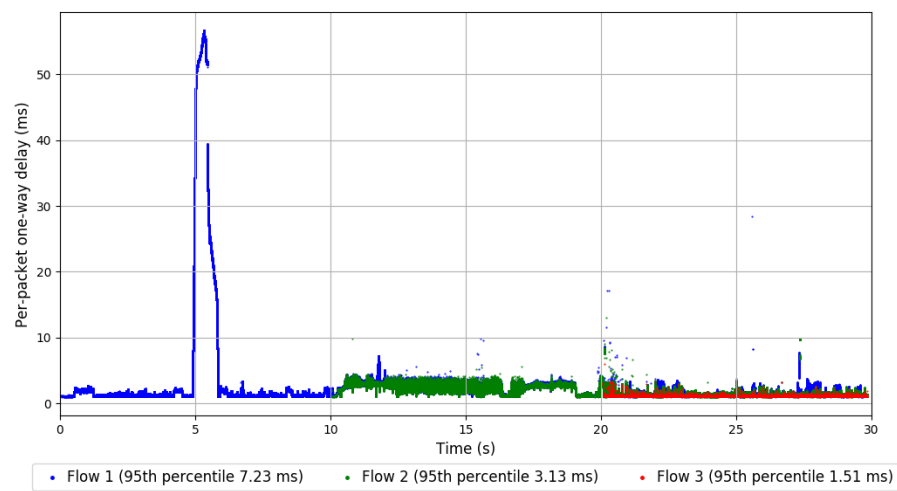
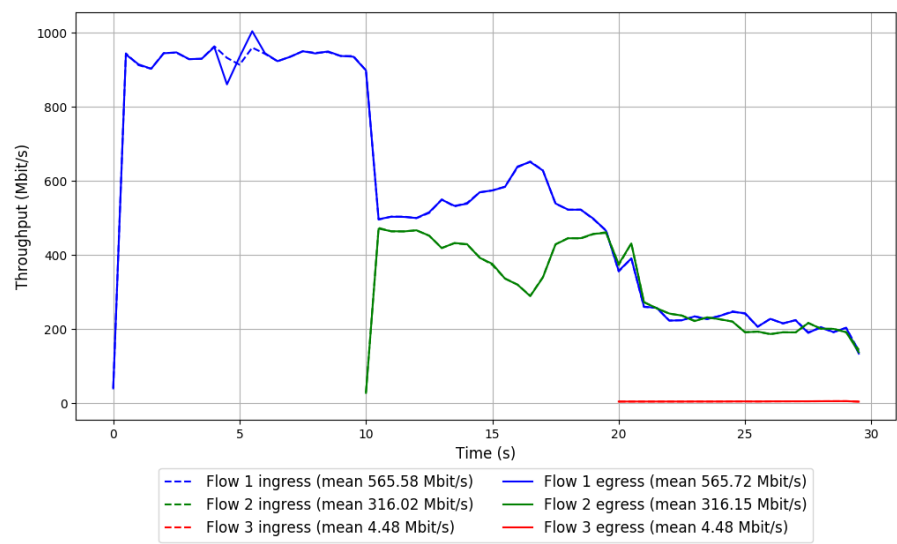


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 19:36:45  
End at: 2018-04-24 19:37:15  
Local clock offset: 0.842 ms  
Remote clock offset: -6.064 ms

# Below is generated by plot.py at 2018-04-25 02:56:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 777.04 Mbit/s  
95th percentile per-packet one-way delay: 3.275 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 565.72 Mbit/s  
95th percentile per-packet one-way delay: 7.234 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 316.15 Mbit/s  
95th percentile per-packet one-way delay: 3.129 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 4.48 Mbit/s  
95th percentile per-packet one-way delay: 1.513 ms  
Loss rate: 0.25%

Run 6: Report of PCC-Allegro — Data Link



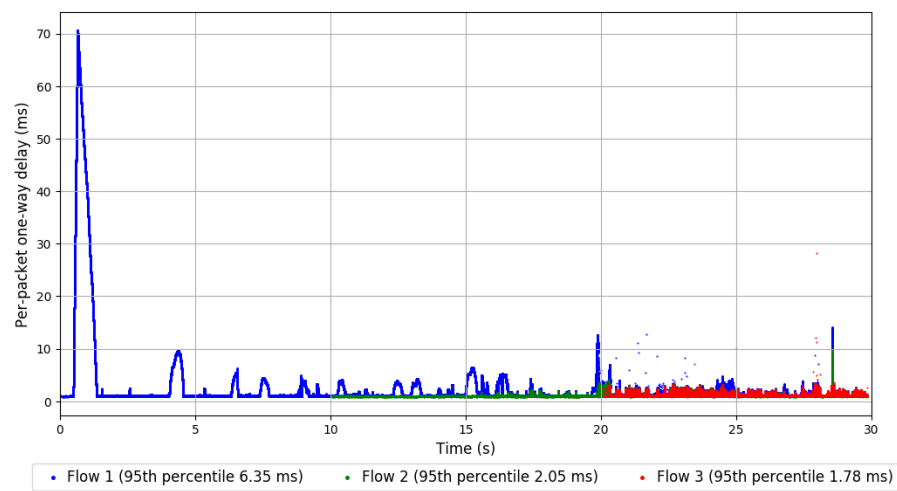
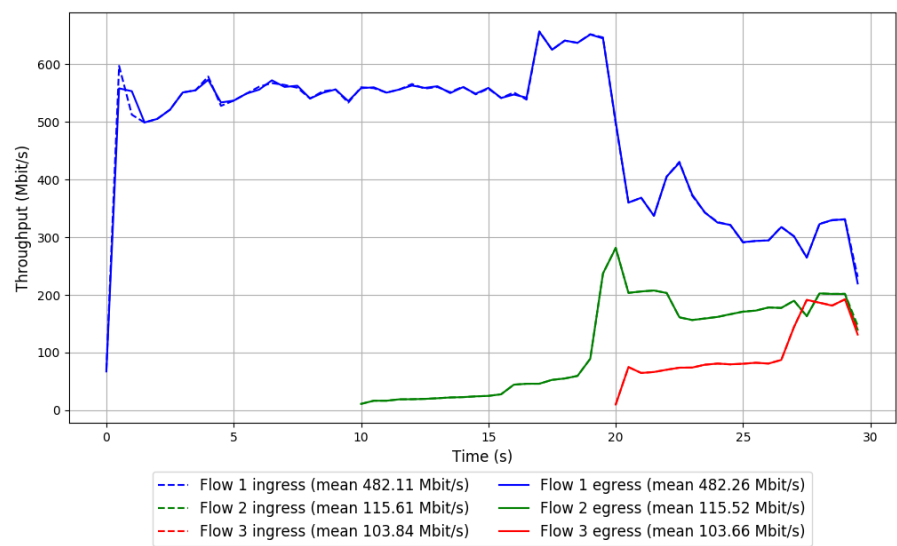


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 20:03:22  
End at: 2018-04-24 20:03:52  
Local clock offset: 0.462 ms  
Remote clock offset: -5.266 ms

# Below is generated by plot.py at 2018-04-25 02:56:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 592.97 Mbit/s  
95th percentile per-packet one-way delay: 5.301 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 482.26 Mbit/s  
95th percentile per-packet one-way delay: 6.351 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 115.52 Mbit/s  
95th percentile per-packet one-way delay: 2.052 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 103.66 Mbit/s  
95th percentile per-packet one-way delay: 1.778 ms  
Loss rate: 0.36%

Run 7: Report of PCC-Allegro — Data Link

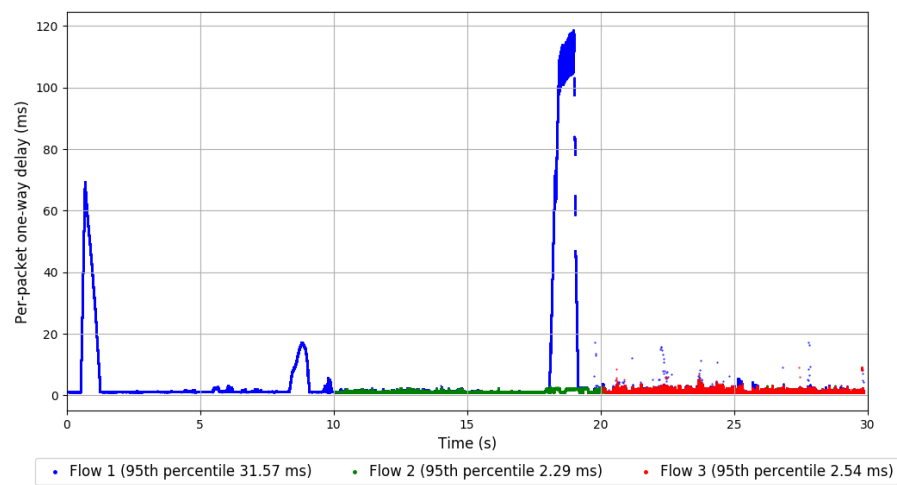
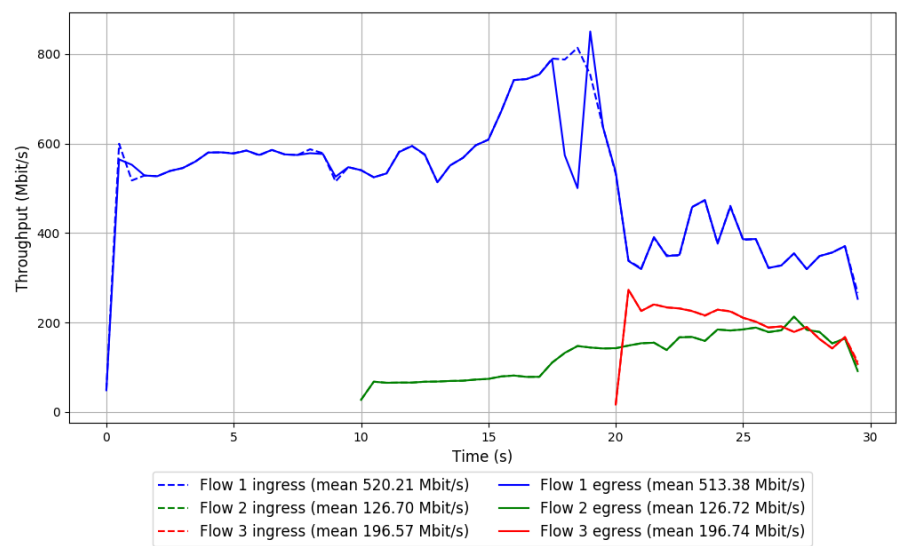


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 20:29:50  
End at: 2018-04-24 20:30:20  
Local clock offset: 0.464 ms  
Remote clock offset: -5.248 ms

# Below is generated by plot.py at 2018-04-25 02:57:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 662.16 Mbit/s  
95th percentile per-packet one-way delay: 16.092 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 513.38 Mbit/s  
95th percentile per-packet one-way delay: 31.569 ms  
Loss rate: 1.43%  
-- Flow 2:  
Average throughput: 126.72 Mbit/s  
95th percentile per-packet one-way delay: 2.294 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 196.74 Mbit/s  
95th percentile per-packet one-way delay: 2.536 ms  
Loss rate: 0.13%

Run 8: Report of PCC-Allegro — Data Link

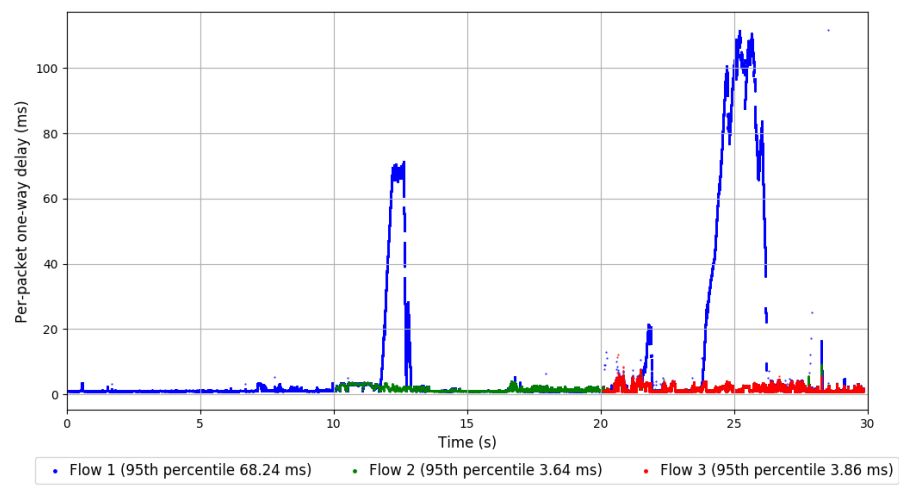
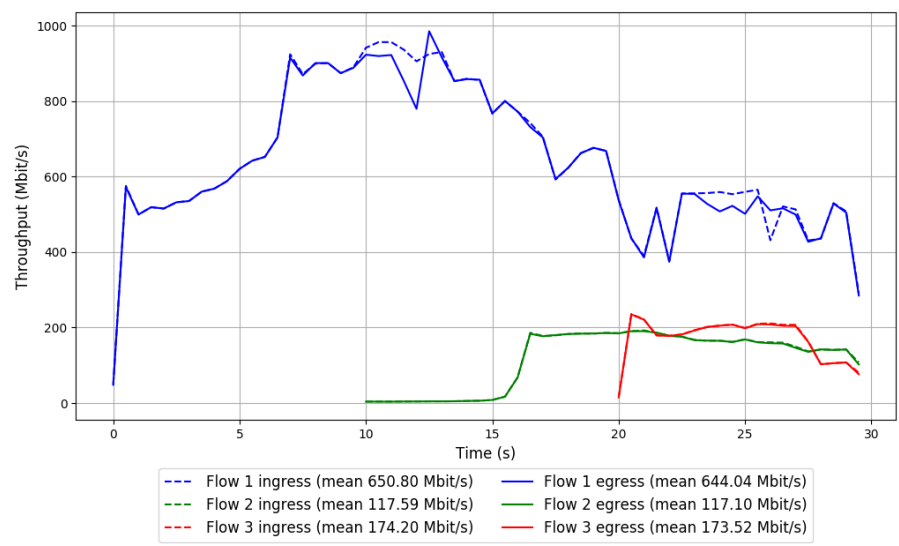


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 20:56:21  
End at: 2018-04-24 20:56:51  
Local clock offset: 0.594 ms  
Remote clock offset: -5.335 ms

# Below is generated by plot.py at 2018-04-25 03:01:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 778.70 Mbit/s  
95th percentile per-packet one-way delay: 66.542 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 644.04 Mbit/s  
95th percentile per-packet one-way delay: 68.238 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 117.10 Mbit/s  
95th percentile per-packet one-way delay: 3.642 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 173.52 Mbit/s  
95th percentile per-packet one-way delay: 3.857 ms  
Loss rate: 0.57%

Run 9: Report of PCC-Allegro — Data Link

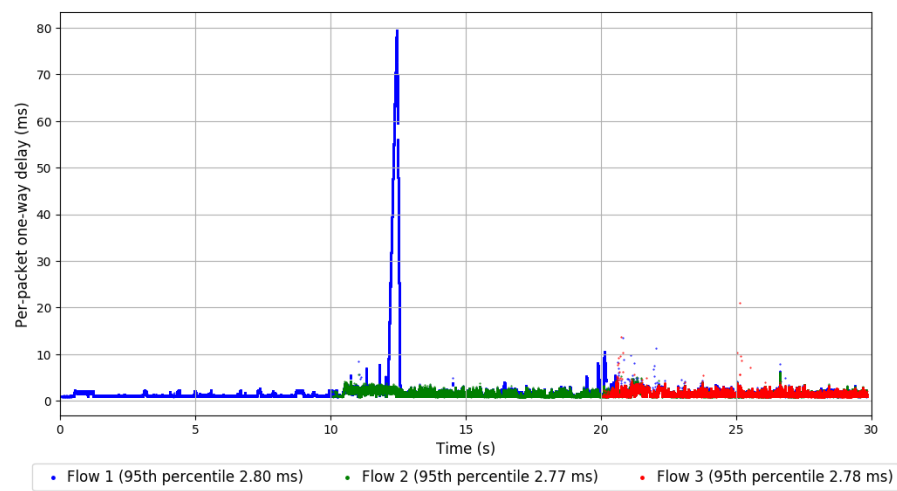
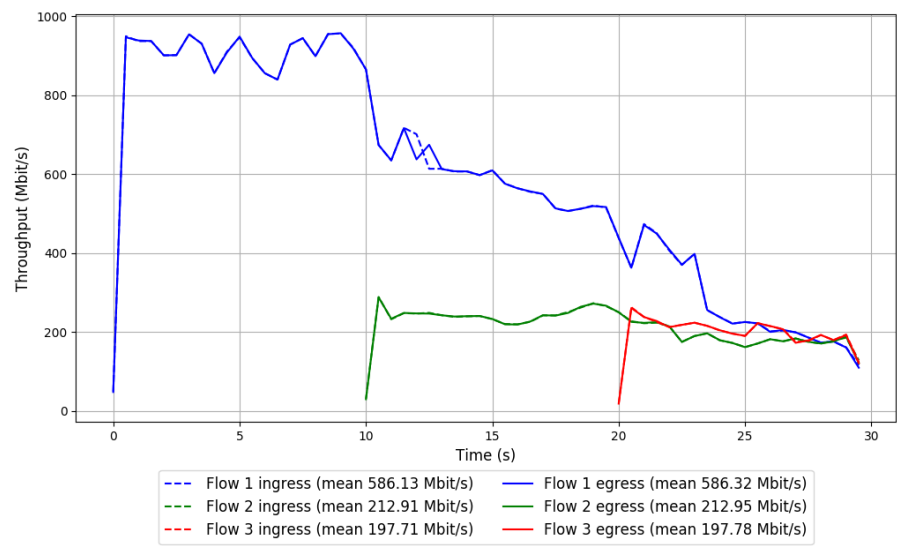


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 21:23:03  
End at: 2018-04-24 21:23:33  
Local clock offset: 0.263 ms  
Remote clock offset: -5.358 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 792.60 Mbit/s  
95th percentile per-packet one-way delay: 2.787 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 586.32 Mbit/s  
95th percentile per-packet one-way delay: 2.798 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 212.95 Mbit/s  
95th percentile per-packet one-way delay: 2.767 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 197.78 Mbit/s  
95th percentile per-packet one-way delay: 2.784 ms  
Loss rate: 0.12%

Run 10: Report of PCC-Allegro — Data Link



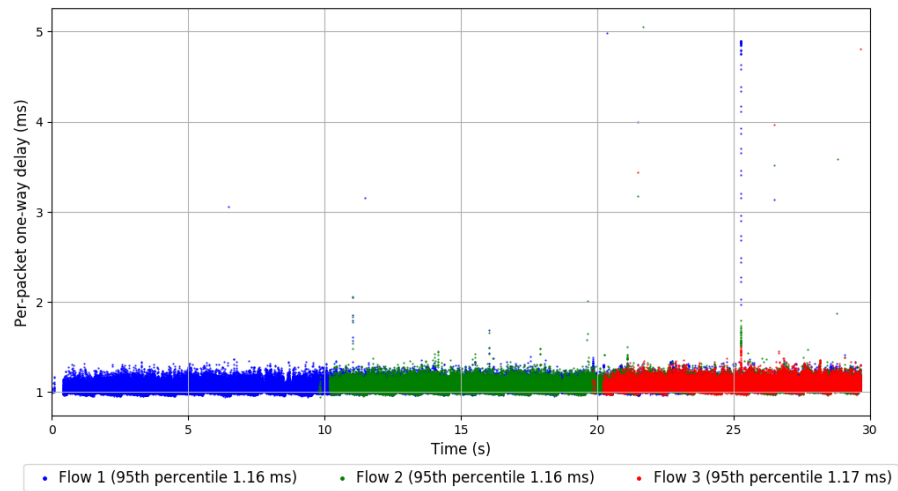
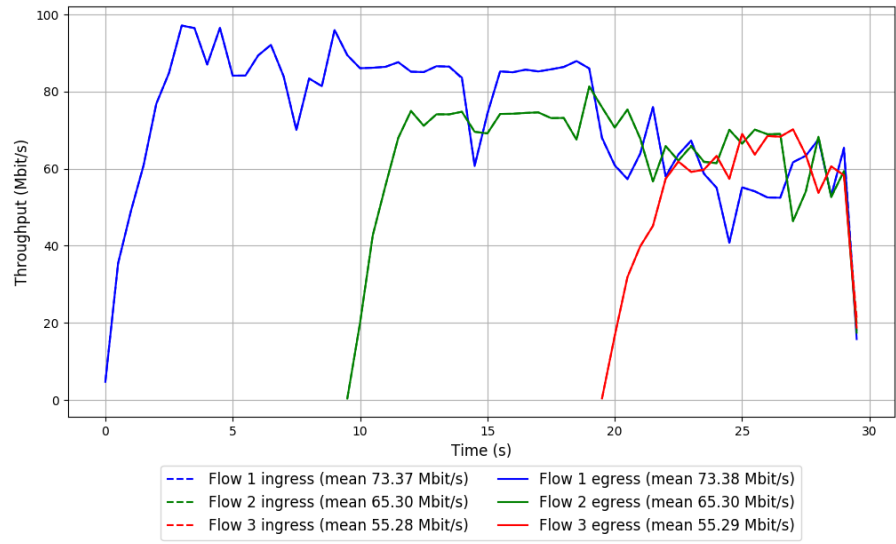


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 17:10:54  
End at: 2018-04-24 17:11:24  
Local clock offset: 0.368 ms  
Remote clock offset: -4.933 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 135.46 Mbit/s  
95th percentile per-packet one-way delay: 1.163 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 73.38 Mbit/s  
95th percentile per-packet one-way delay: 1.160 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 65.30 Mbit/s  
95th percentile per-packet one-way delay: 1.163 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 55.29 Mbit/s  
95th percentile per-packet one-way delay: 1.172 ms  
Loss rate: 0.24%

## Run 1: Report of QUIC Cubic — Data Link

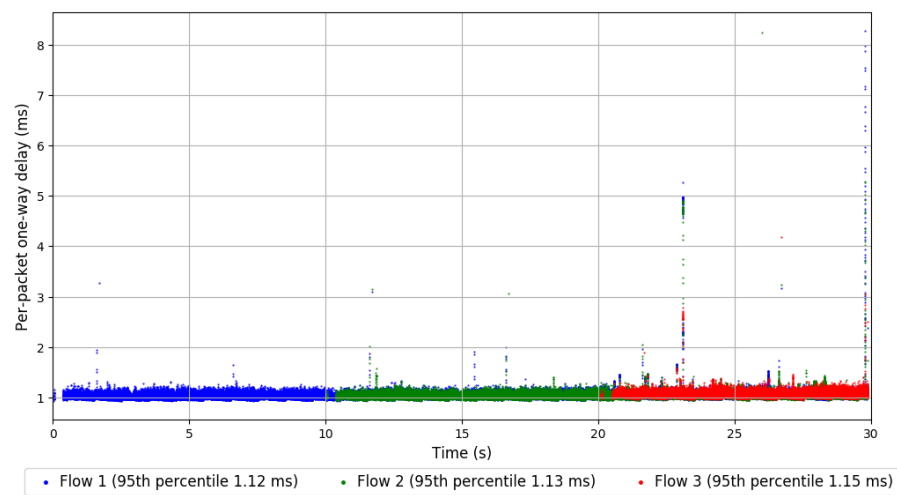
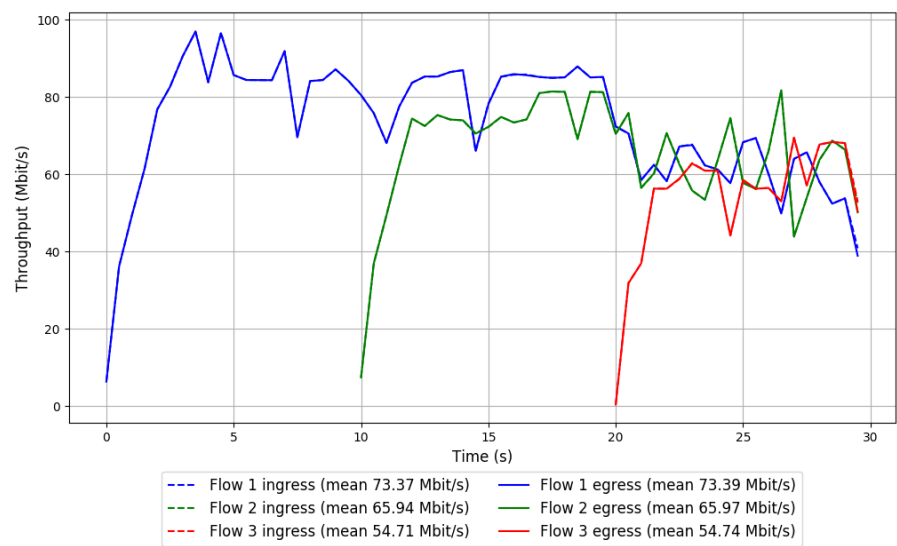


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 17:37:31  
End at: 2018-04-24 17:38:01  
Local clock offset: 0.356 ms  
Remote clock offset: -6.018 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 135.25 Mbit/s  
95th percentile per-packet one-way delay: 1.128 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 73.39 Mbit/s  
95th percentile per-packet one-way delay: 1.119 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 65.97 Mbit/s  
95th percentile per-packet one-way delay: 1.127 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 54.74 Mbit/s  
95th percentile per-packet one-way delay: 1.154 ms  
Loss rate: 0.26%

Run 2: Report of QUIC Cubic — Data Link

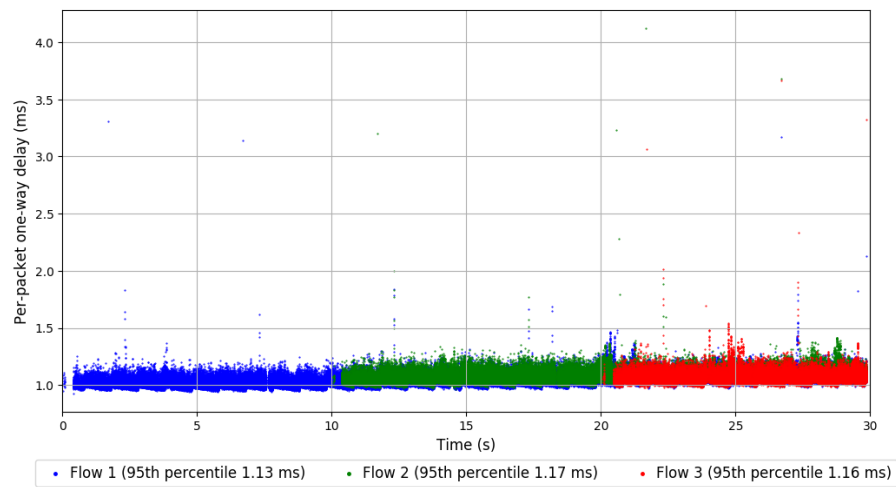
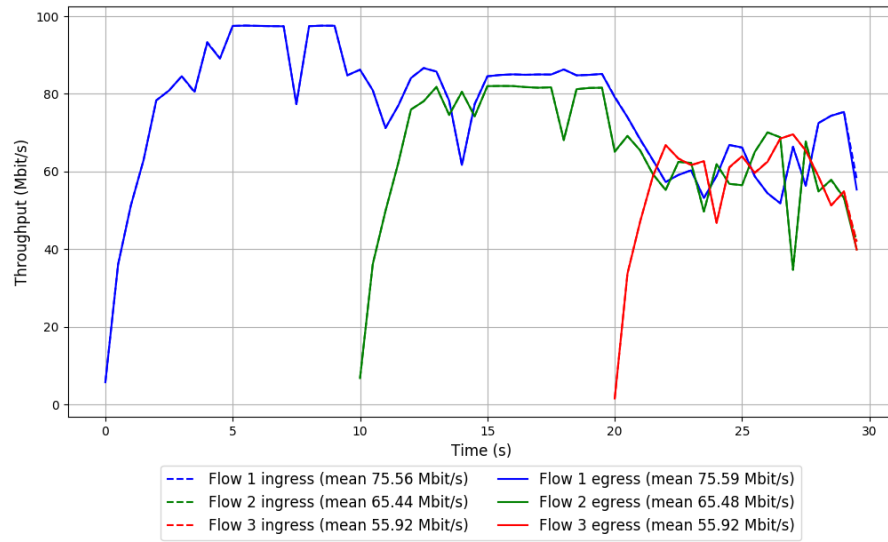


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 18:04:08  
End at: 2018-04-24 18:04:38  
Local clock offset: -0.668 ms  
Remote clock offset: -5.542 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 137.48 Mbit/s  
95th percentile per-packet one-way delay: 1.149 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 75.59 Mbit/s  
95th percentile per-packet one-way delay: 1.130 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 65.48 Mbit/s  
95th percentile per-packet one-way delay: 1.165 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 55.92 Mbit/s  
95th percentile per-packet one-way delay: 1.162 ms  
Loss rate: 0.18%

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

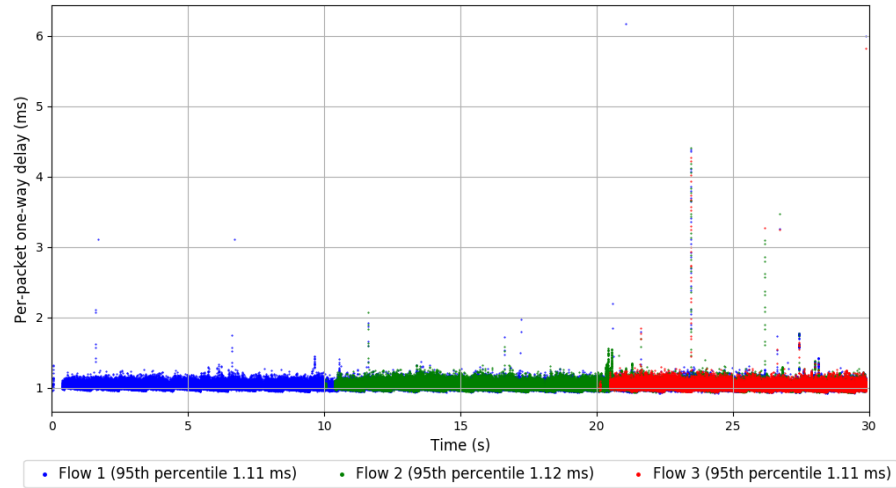
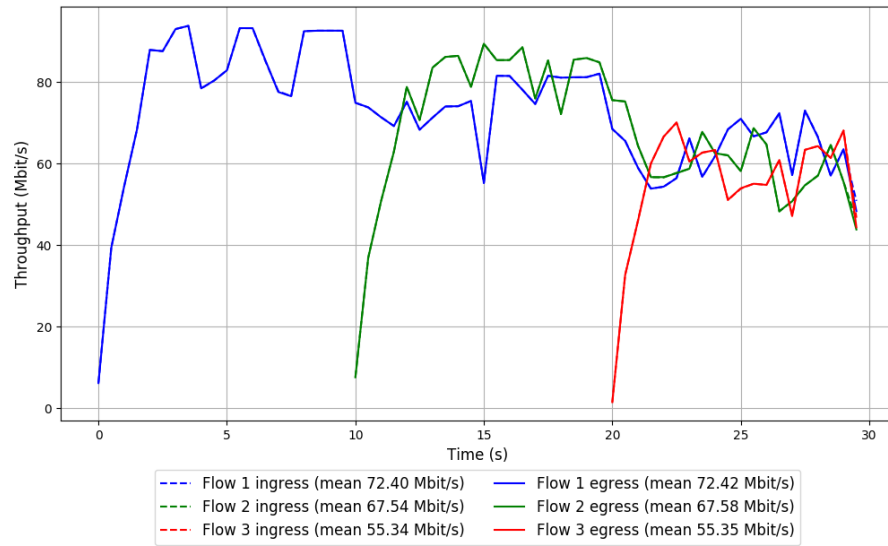


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 18:30:44  
End at: 2018-04-24 18:31:14  
Local clock offset: -1.486 ms  
Remote clock offset: -5.252 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 135.54 Mbit/s  
95th percentile per-packet one-way delay: 1.112 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 72.42 Mbit/s  
95th percentile per-packet one-way delay: 1.107 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 67.58 Mbit/s  
95th percentile per-packet one-way delay: 1.120 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 55.35 Mbit/s  
95th percentile per-packet one-way delay: 1.112 ms  
Loss rate: 0.23%

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



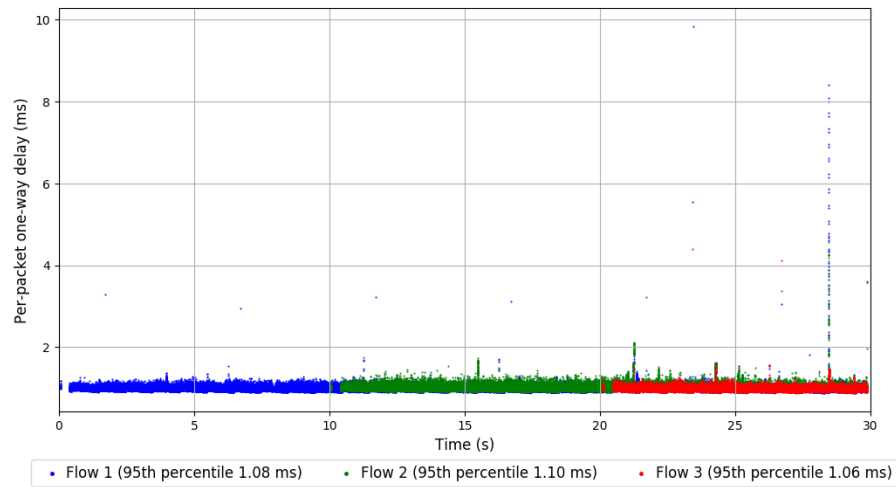
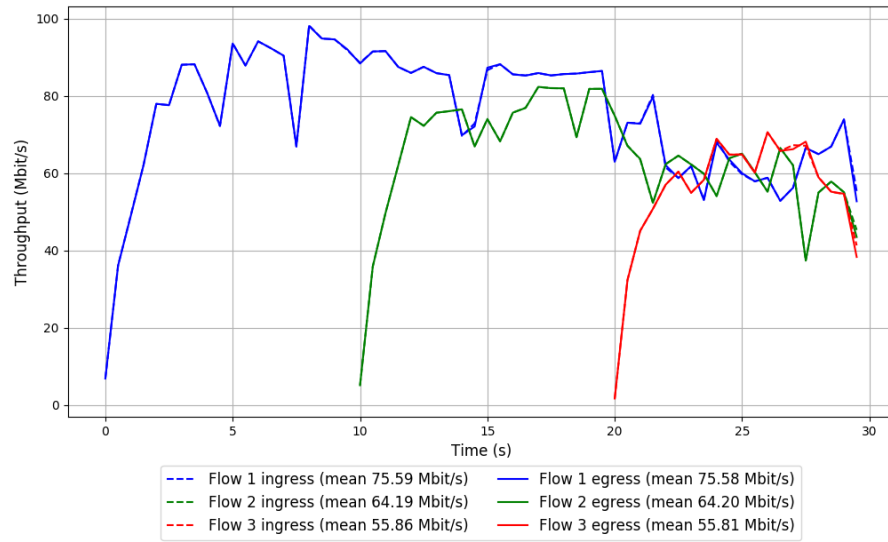


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 18:57:07  
End at: 2018-04-24 18:57:37  
Local clock offset: 0.08 ms  
Remote clock offset: -6.437 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 136.61 Mbit/s  
95th percentile per-packet one-way delay: 1.087 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 75.58 Mbit/s  
95th percentile per-packet one-way delay: 1.082 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 64.20 Mbit/s  
95th percentile per-packet one-way delay: 1.104 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 55.81 Mbit/s  
95th percentile per-packet one-way delay: 1.065 ms  
Loss rate: 0.27%

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

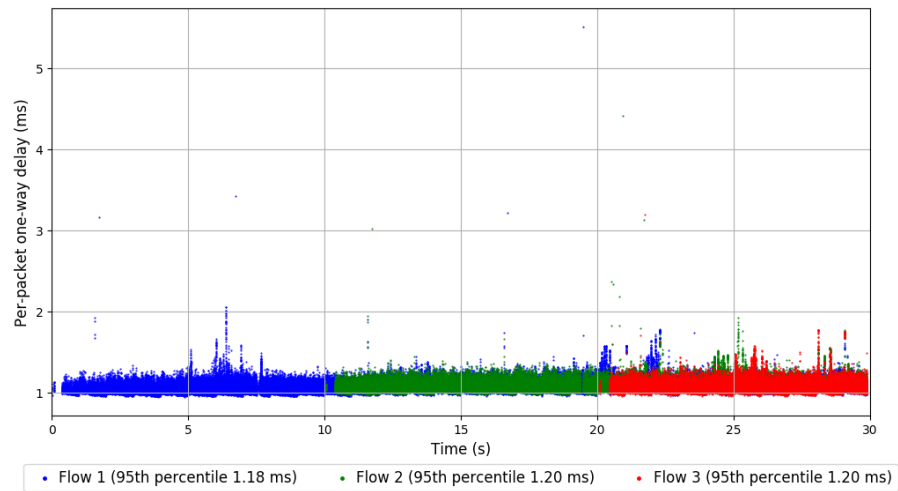
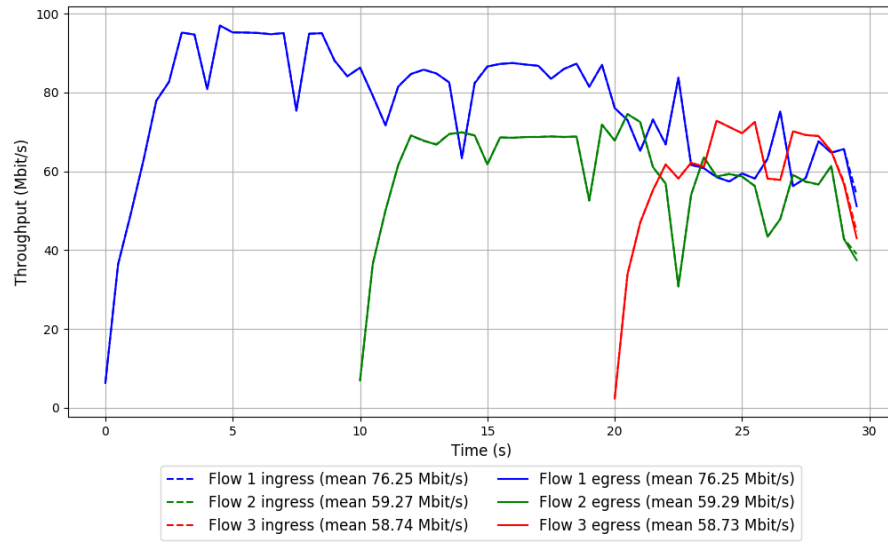


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 19:23:51  
End at: 2018-04-24 19:24:21  
Local clock offset: 0.76 ms  
Remote clock offset: -6.059 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 135.04 Mbit/s  
95th percentile per-packet one-way delay: 1.189 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 76.25 Mbit/s  
95th percentile per-packet one-way delay: 1.181 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 59.29 Mbit/s  
95th percentile per-packet one-way delay: 1.199 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 58.73 Mbit/s  
95th percentile per-packet one-way delay: 1.199 ms  
Loss rate: 0.21%

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

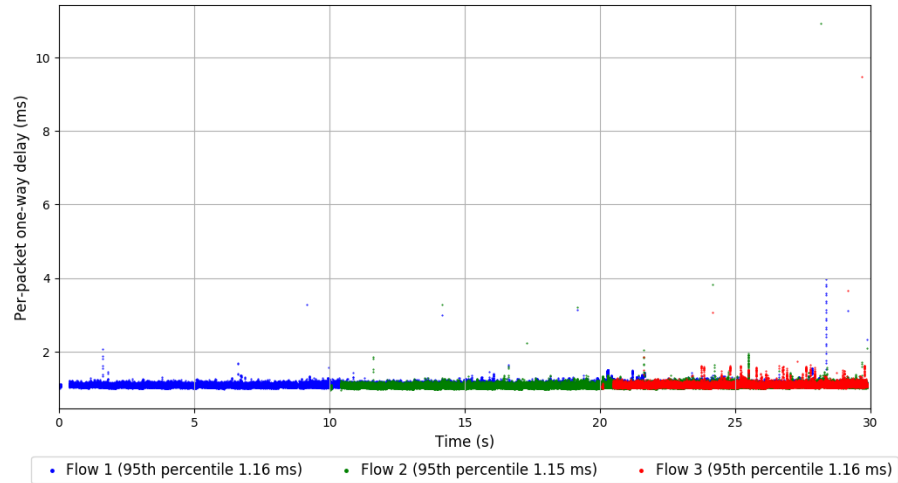
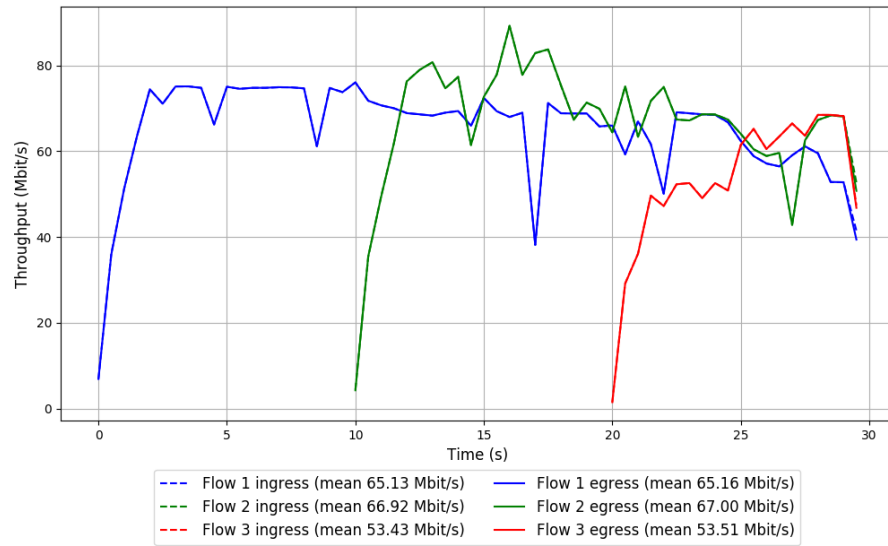


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 19:50:30  
End at: 2018-04-24 19:51:00  
Local clock offset: 1.164 ms  
Remote clock offset: -5.497 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 127.33 Mbit/s  
95th percentile per-packet one-way delay: 1.158 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 65.16 Mbit/s  
95th percentile per-packet one-way delay: 1.162 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 67.00 Mbit/s  
95th percentile per-packet one-way delay: 1.147 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 53.51 Mbit/s  
95th percentile per-packet one-way delay: 1.163 ms  
Loss rate: 0.09%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 20:17:02

End at: 2018-04-24 20:17:32

Local clock offset: 0.424 ms

Remote clock offset: -5.26 ms

# Below is generated by plot.py at 2018-04-25 03:05:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 137.17 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 74.91 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.10%

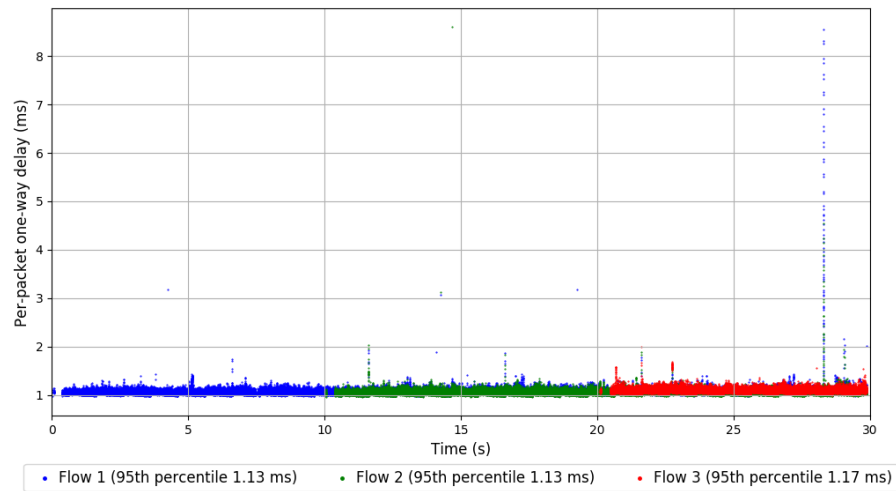
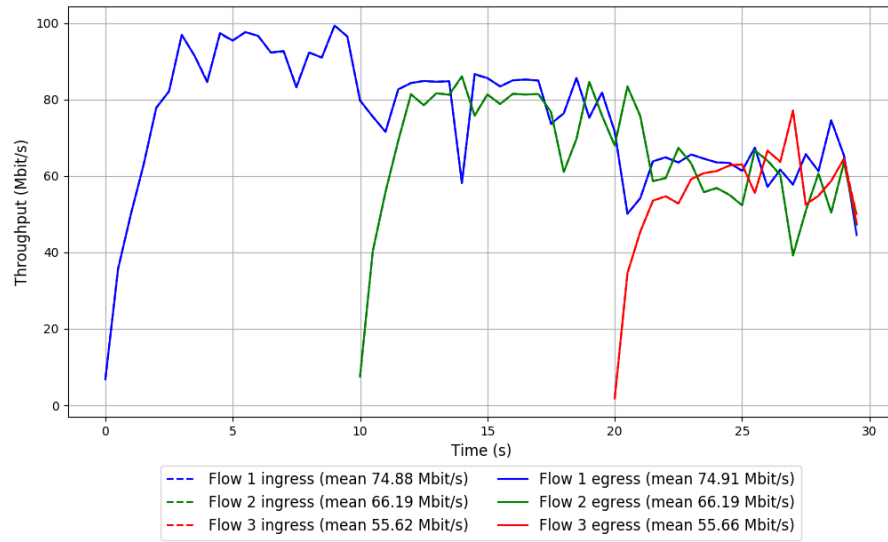
-- Flow 3:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 1.165 ms

Loss rate: 0.22%

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



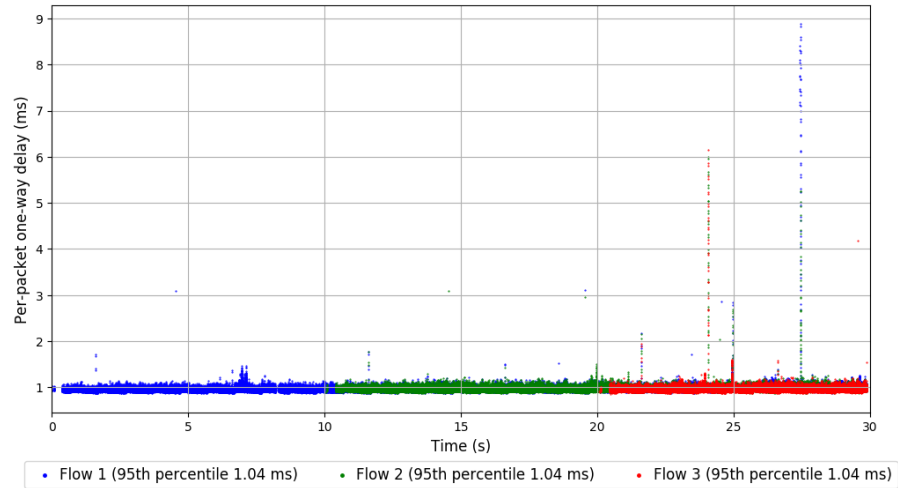
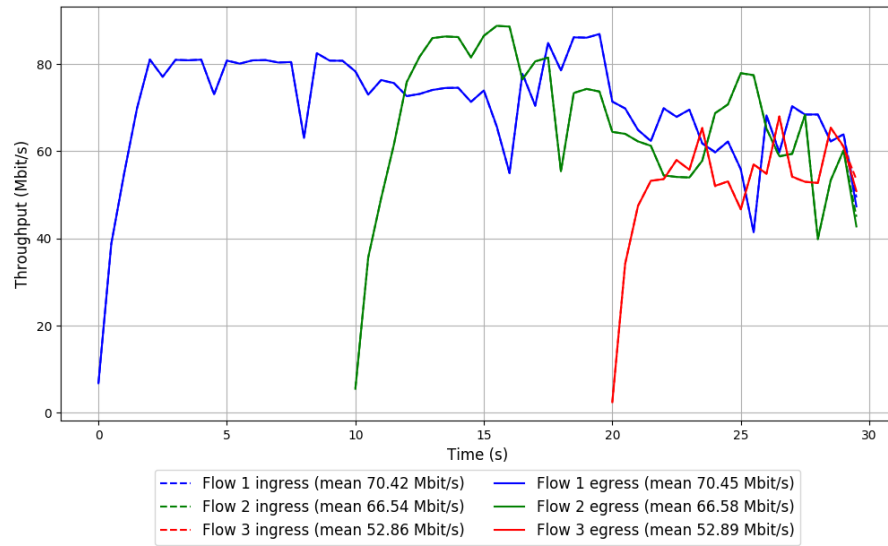


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 20:43:31  
End at: 2018-04-24 20:44:01  
Local clock offset: 0.398 ms  
Remote clock offset: -5.165 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 132.09 Mbit/s  
95th percentile per-packet one-way delay: 1.040 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 70.45 Mbit/s  
95th percentile per-packet one-way delay: 1.039 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 66.58 Mbit/s  
95th percentile per-packet one-way delay: 1.043 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 52.89 Mbit/s  
95th percentile per-packet one-way delay: 1.040 ms  
Loss rate: 0.25%

# Run 9: Report of QUIC Cubic — Data Link

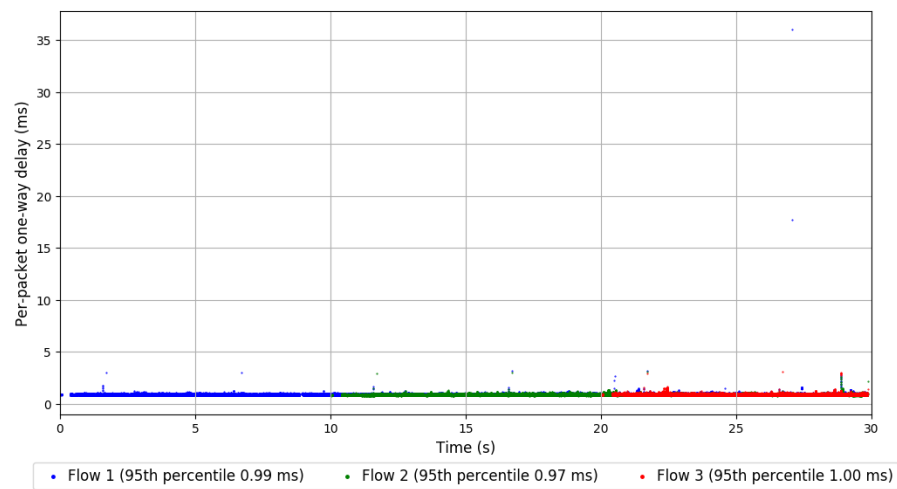
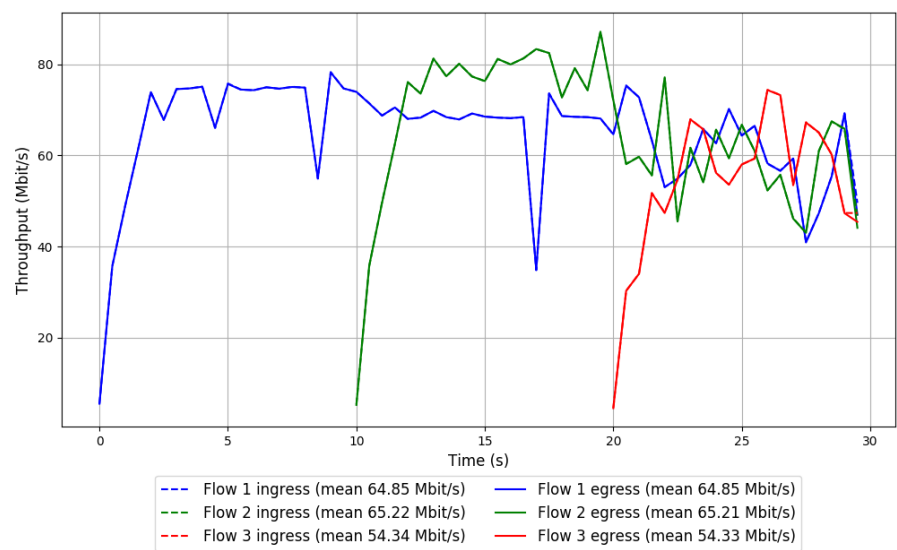


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 21:10:06  
End at: 2018-04-24 21:10:36  
Local clock offset: 0.343 ms  
Remote clock offset: -5.291 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 126.10 Mbit/s  
95th percentile per-packet one-way delay: 0.984 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 64.85 Mbit/s  
95th percentile per-packet one-way delay: 0.987 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 65.21 Mbit/s  
95th percentile per-packet one-way delay: 0.967 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 54.33 Mbit/s  
95th percentile per-packet one-way delay: 0.996 ms  
Loss rate: 0.19%

Run 10: Report of QUIC Cubic — Data Link

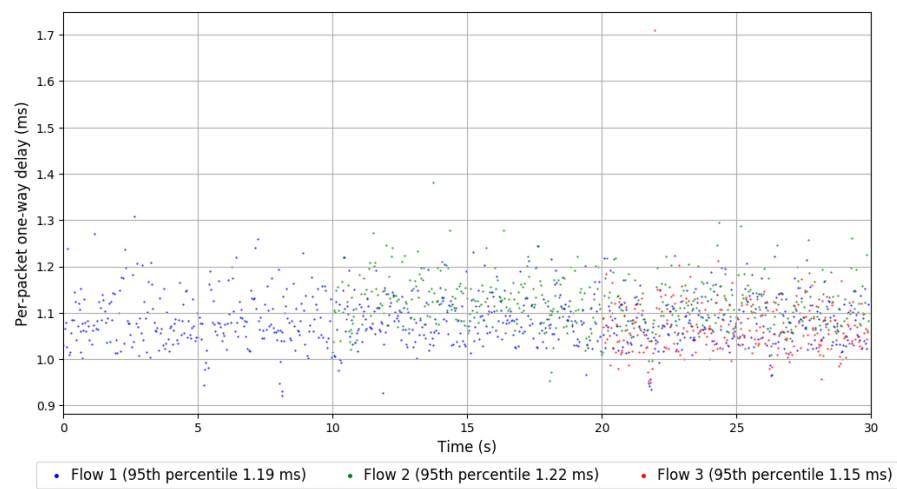
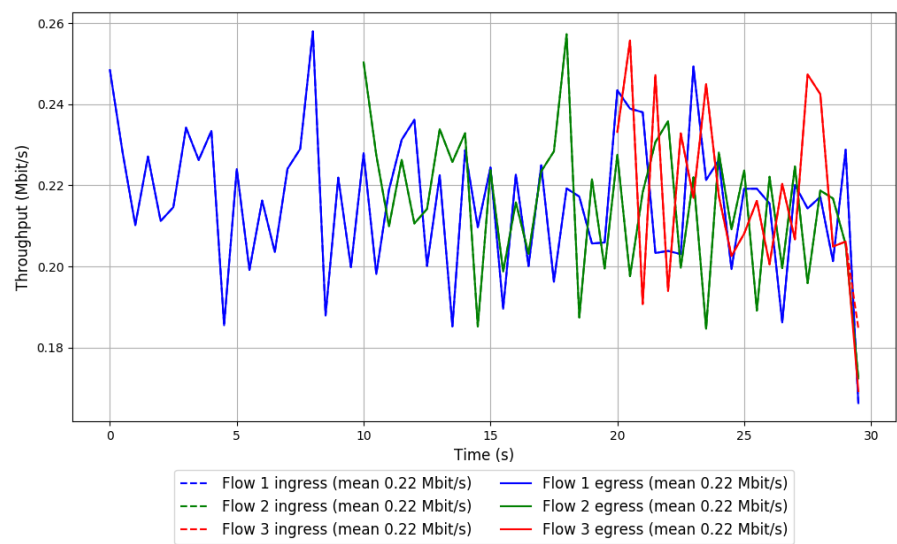


Run 1: Statistics of SReAM

Start at: 2018-04-24 17:19:12  
End at: 2018-04-24 17:19:42  
Local clock offset: 0.368 ms  
Remote clock offset: -4.649 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.197 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.189 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.216 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.147 ms  
Loss rate: 0.35%

Run 1: Report of SReAM — Data Link

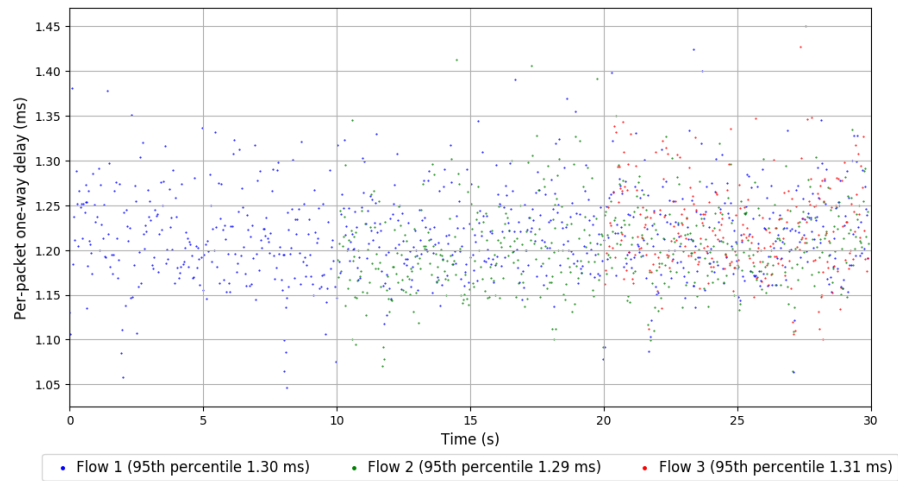
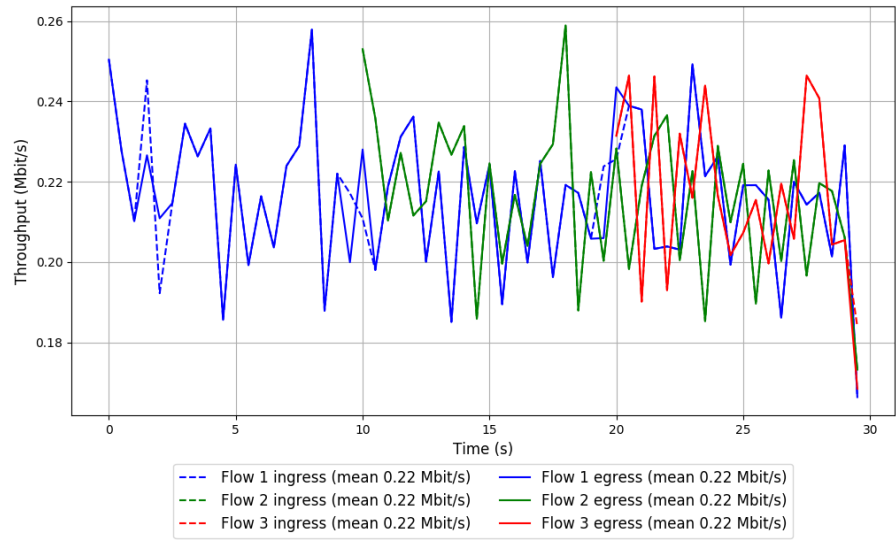


Run 2: Statistics of SReAM

Start at: 2018-04-24 17:45:50  
End at: 2018-04-24 17:46:20  
Local clock offset: 0.08 ms  
Remote clock offset: -6.192 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.302 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.303 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.294 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.314 ms  
Loss rate: 0.35%

## Run 2: Report of SReAM — Data Link



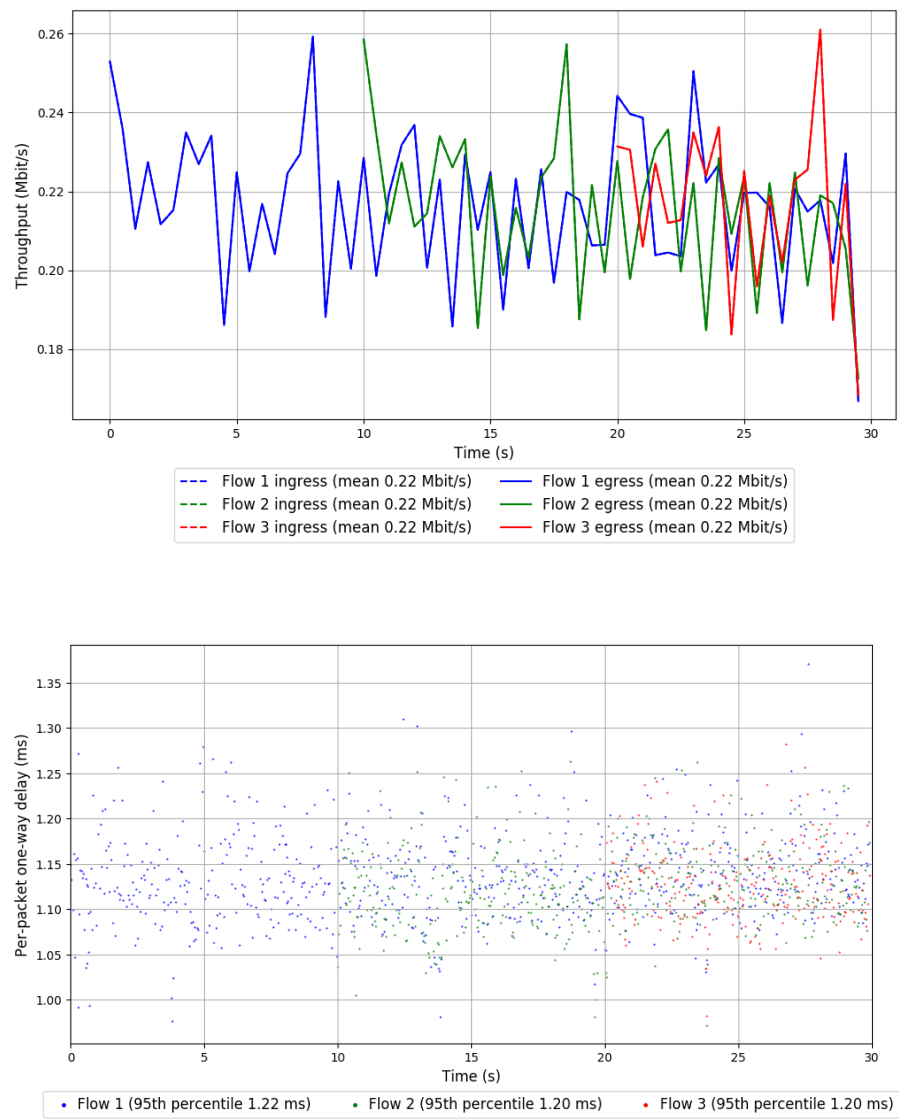


Run 3: Statistics of SReAM

Start at: 2018-04-24 18:12:28  
End at: 2018-04-24 18:12:58  
Local clock offset: -0.996 ms  
Remote clock offset: -5.258 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.215 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.220 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.204 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.203 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

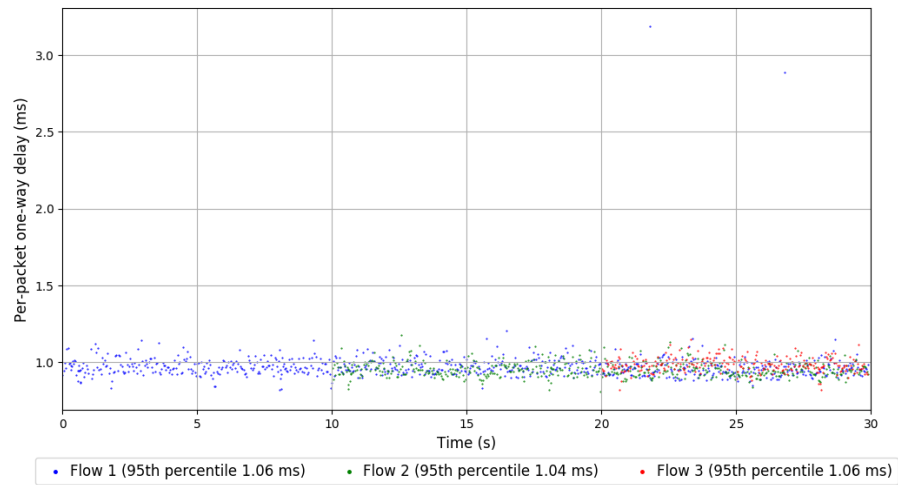
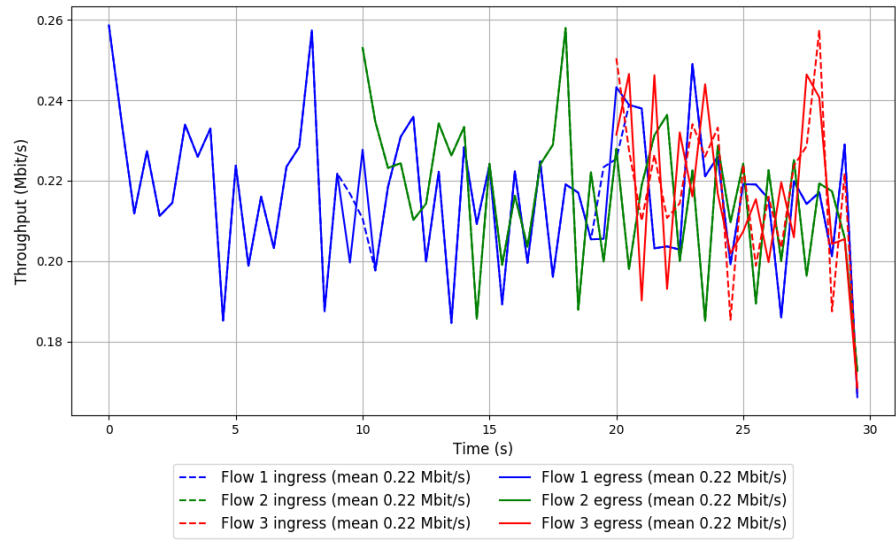


Run 4: Statistics of SReAM

Start at: 2018-04-24 18:38:46  
End at: 2018-04-24 18:39:16  
Local clock offset: -1.86 ms  
Remote clock offset: -5.873 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.059 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.062 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.045 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.061 ms  
Loss rate: 0.35%

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

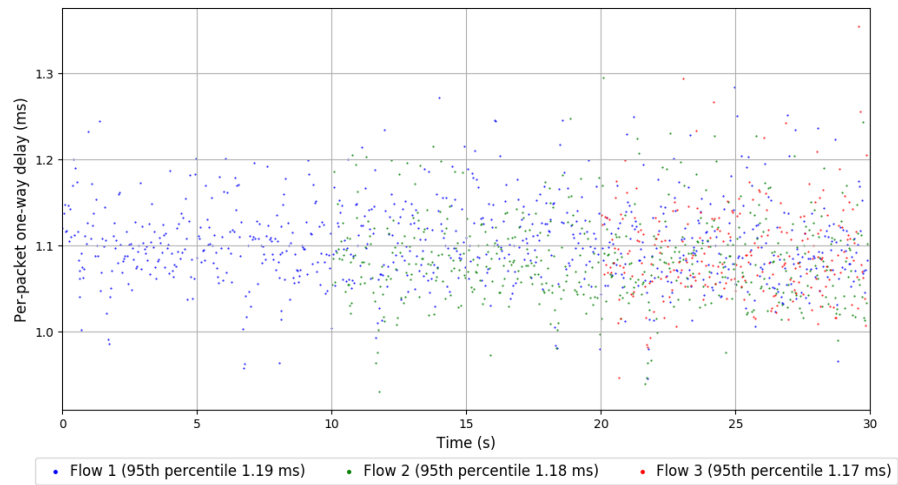
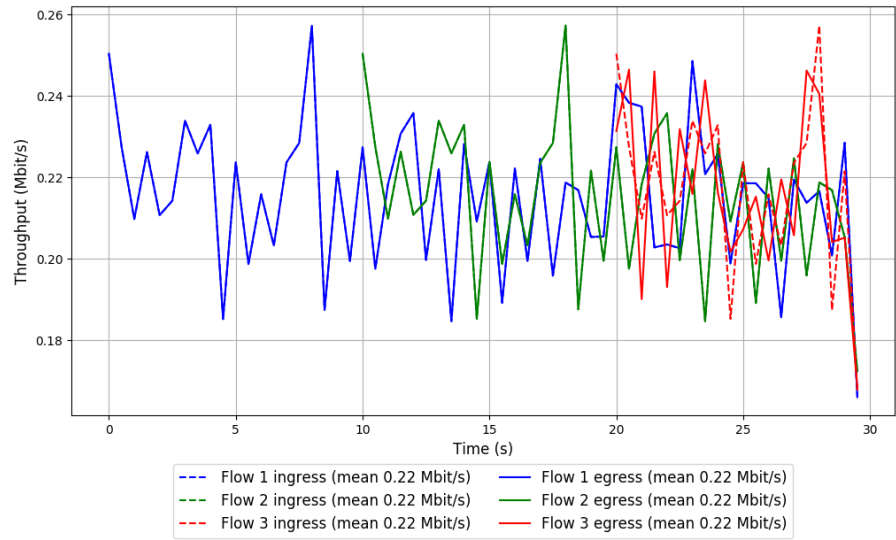


Run 5: Statistics of SReAM

Start at: 2018-04-24 19:05:29  
End at: 2018-04-24 19:05:59  
Local clock offset: 0.45 ms  
Remote clock offset: -6.384 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.186 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.189 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.183 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.172 ms  
Loss rate: 0.35%

## Run 5: Report of SReAM — Data Link

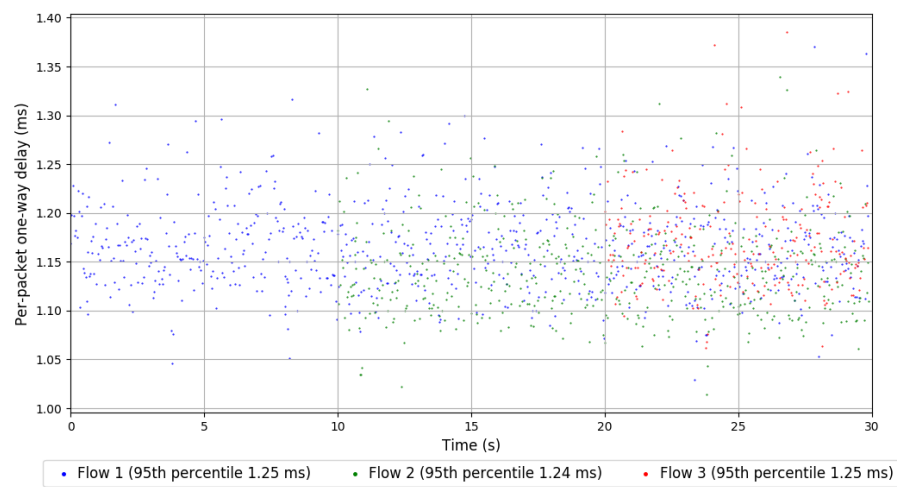
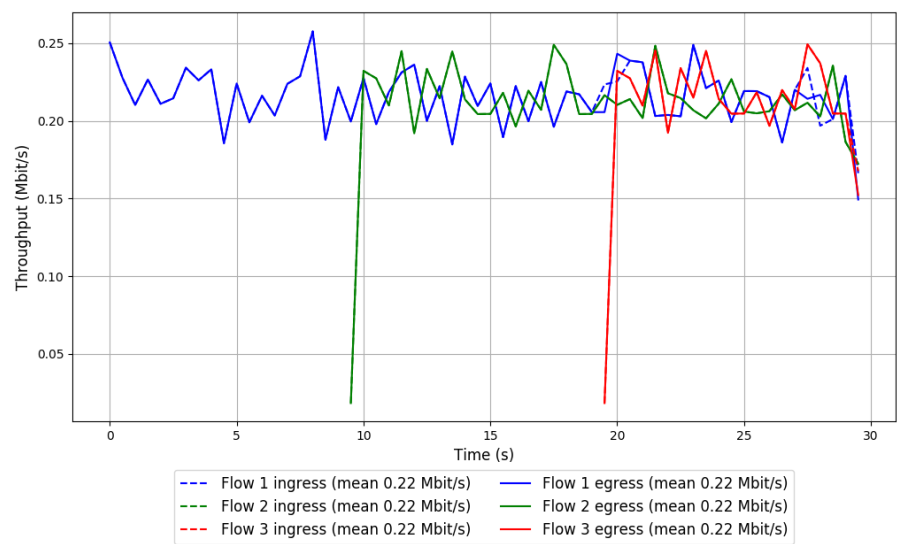


Run 6: Statistics of SReAM

Start at: 2018-04-24 19:32:07  
End at: 2018-04-24 19:32:37  
Local clock offset: 0.76 ms  
Remote clock offset: -6.098 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.243 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.246 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.236 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.254 ms  
Loss rate: 0.35%

Run 6: Report of SReAM — Data Link



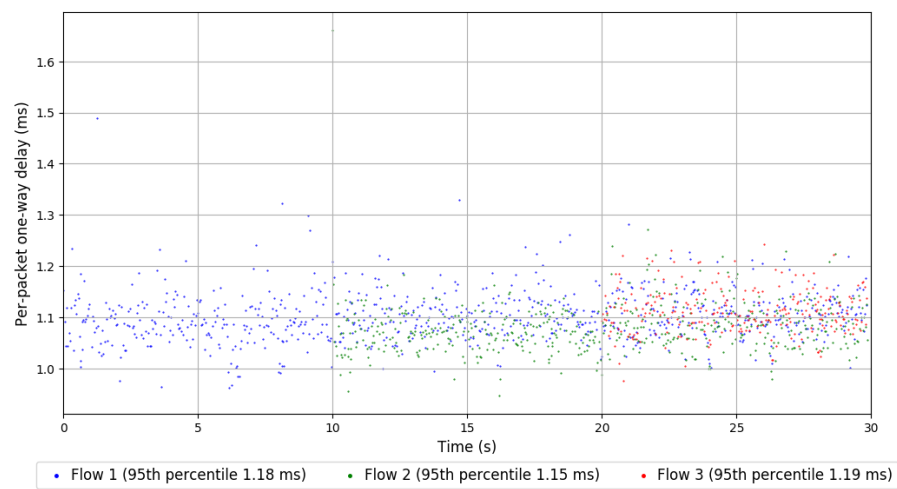
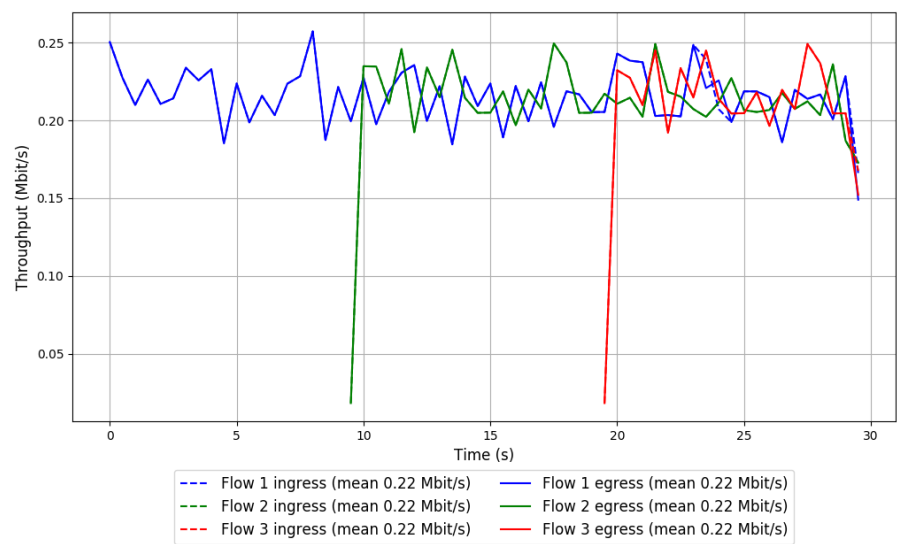


Run 7: Statistics of SReAM

Start at: 2018-04-24 19:58:44  
End at: 2018-04-24 19:59:14  
Local clock offset: 0.654 ms  
Remote clock offset: -5.286 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.179 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.184 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.150 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.187 ms  
Loss rate: 0.35%

Run 7: Report of SReAM — Data Link

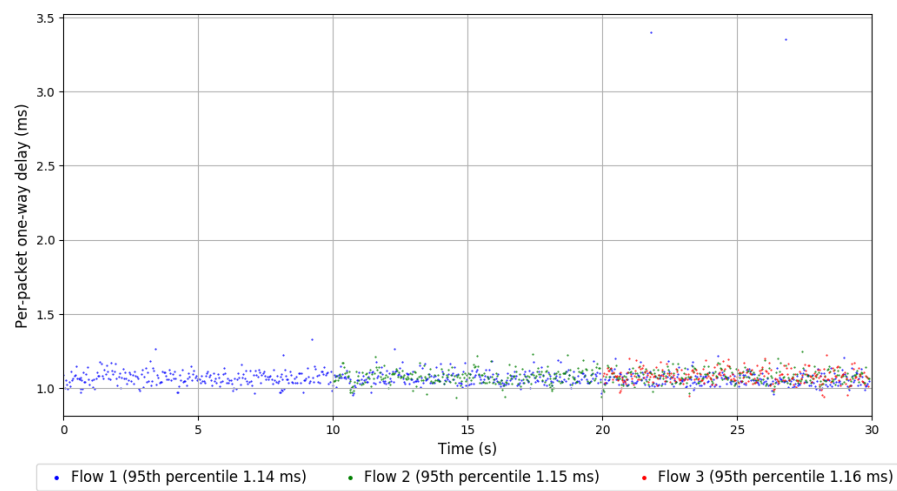
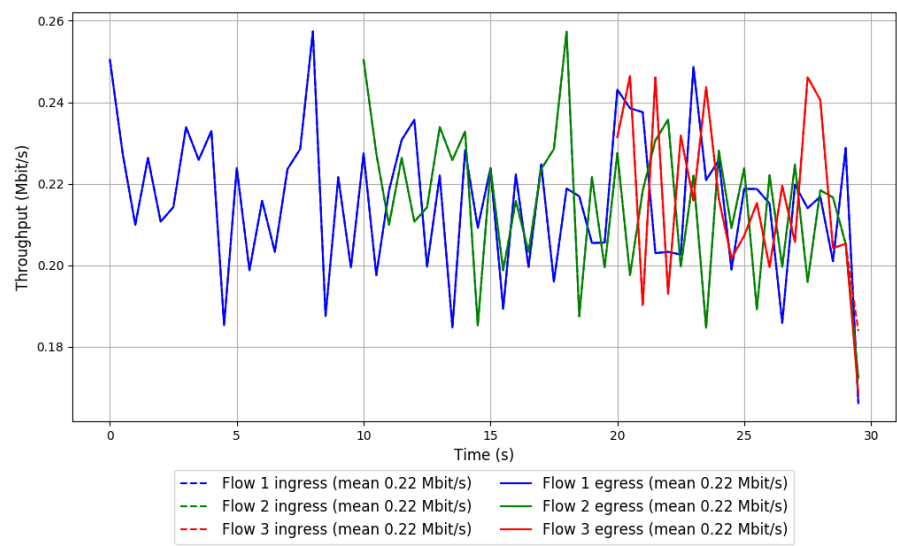


Run 8: Statistics of SReAM

Start at: 2018-04-24 20:25:13  
End at: 2018-04-24 20:25:43  
Local clock offset: 0.432 ms  
Remote clock offset: -5.175 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.150 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.139 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.149 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.161 ms  
Loss rate: 0.35%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-04-24 20:51:43

End at: 2018-04-24 20:52:13

Local clock offset: 0.554 ms

Remote clock offset: -5.27 ms

# Below is generated by plot.py at 2018-04-25 03:05:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.00%

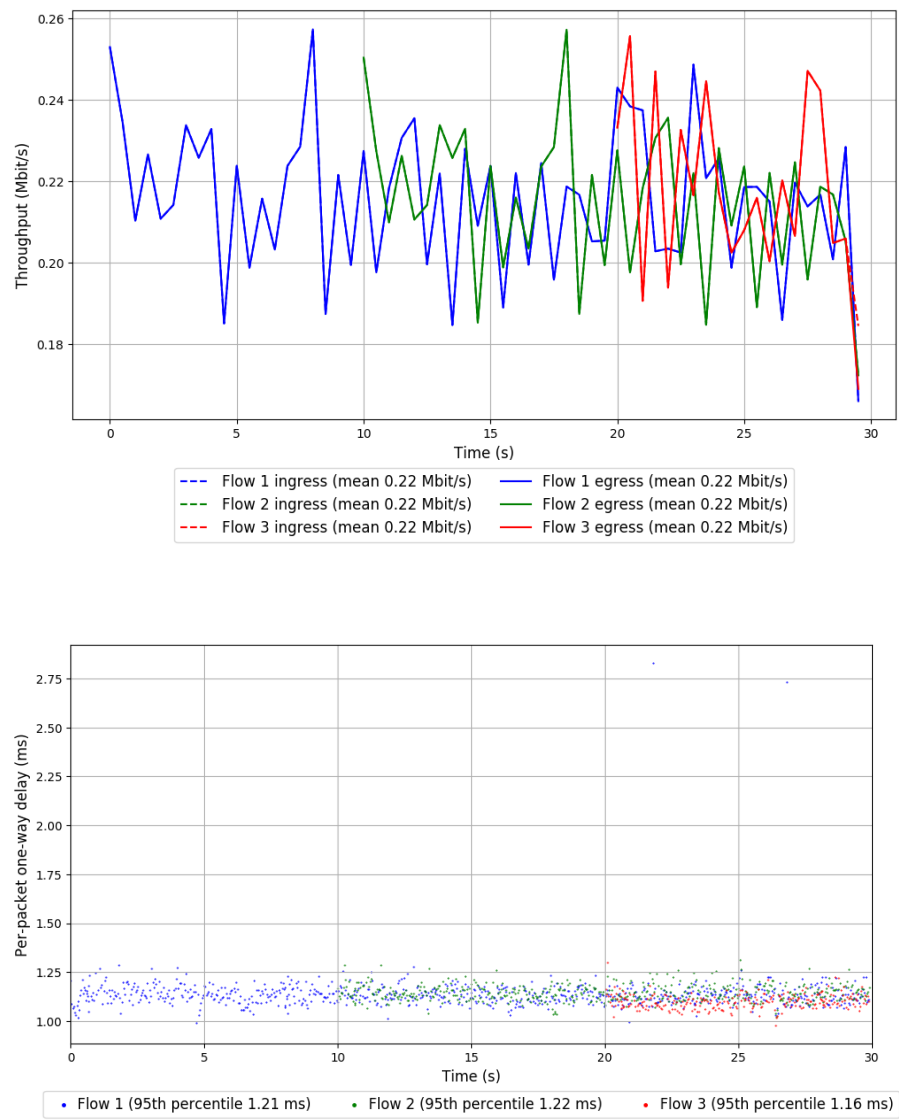
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.159 ms

Loss rate: 0.35%

Run 9: Report of SReAM — Data Link

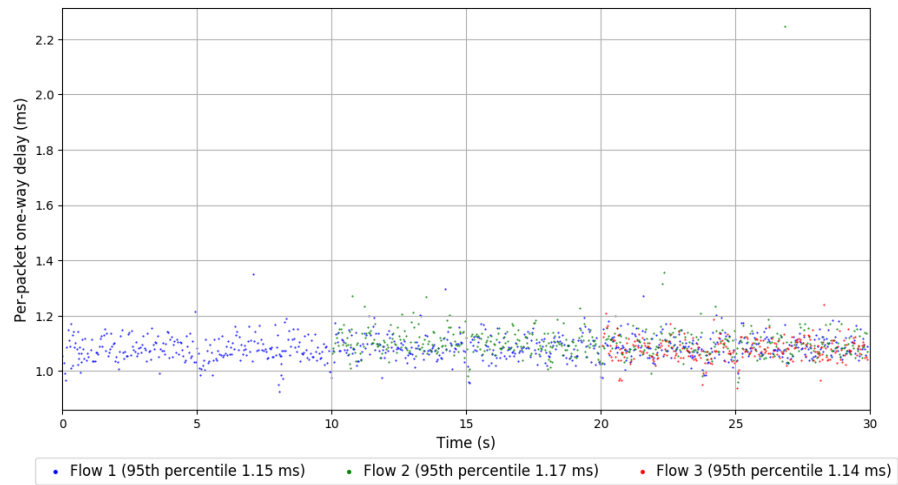
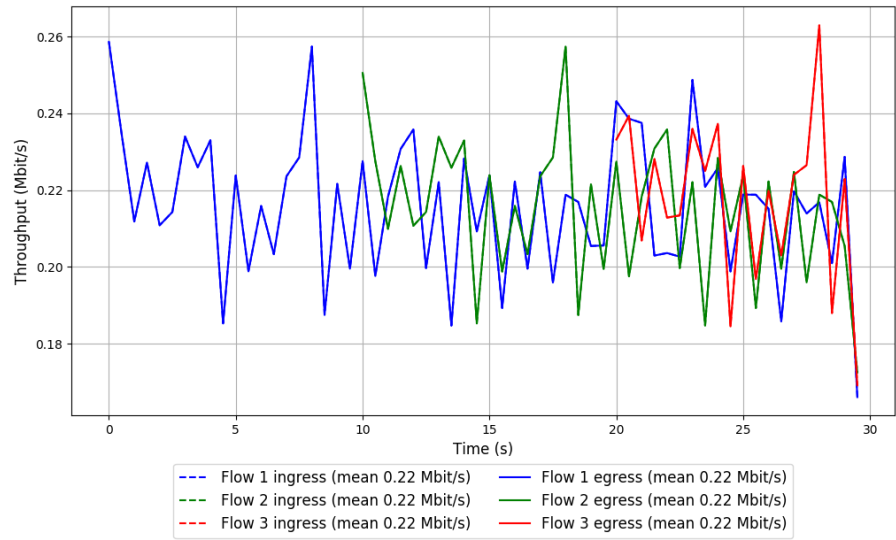


Run 10: Statistics of SCReAM

Start at: 2018-04-24 21:18:24  
End at: 2018-04-24 21:18:54  
Local clock offset: 0.28 ms  
Remote clock offset: -5.397 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 1.161 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.154 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.171 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.136 ms  
Loss rate: 0.00%

## Run 10: Report of SCReAM — Data Link



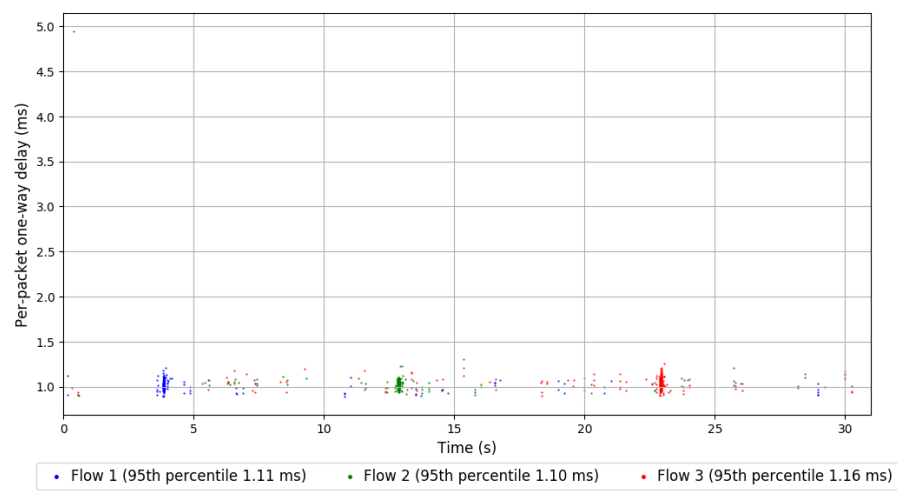
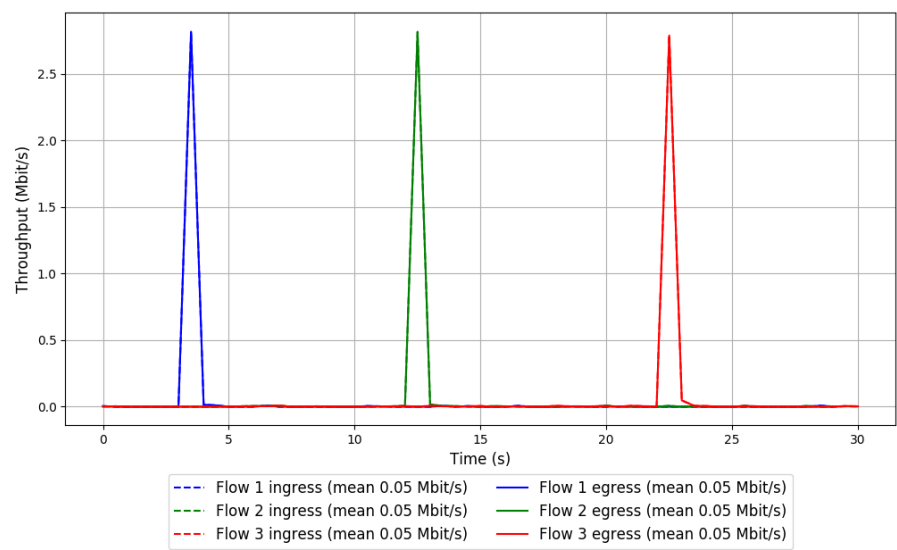


Run 1: Statistics of WebRTC media

Start at: 2018-04-24 17:04:58  
End at: 2018-04-24 17:05:28  
Local clock offset: 0.267 ms  
Remote clock offset: -5.078 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.137 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.108 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.104 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.164 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-24 17:31:38

End at: 2018-04-24 17:32:08

Local clock offset: 0.387 ms

Remote clock offset: -5.81 ms

# Below is generated by plot.py at 2018-04-25 03:05:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.045 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.00%

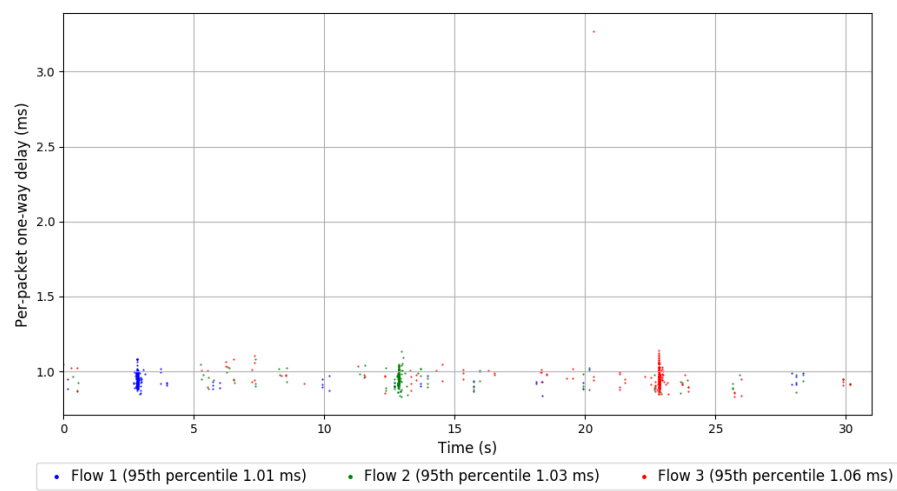
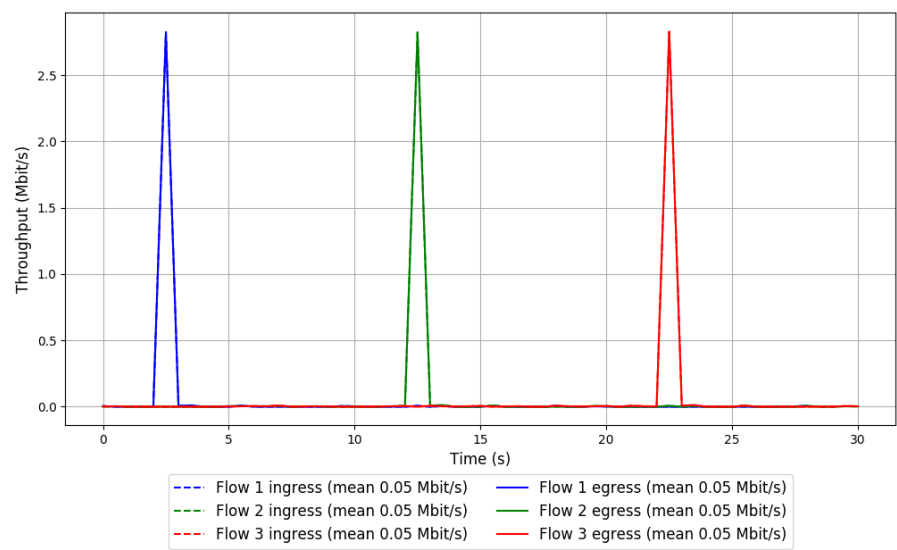
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

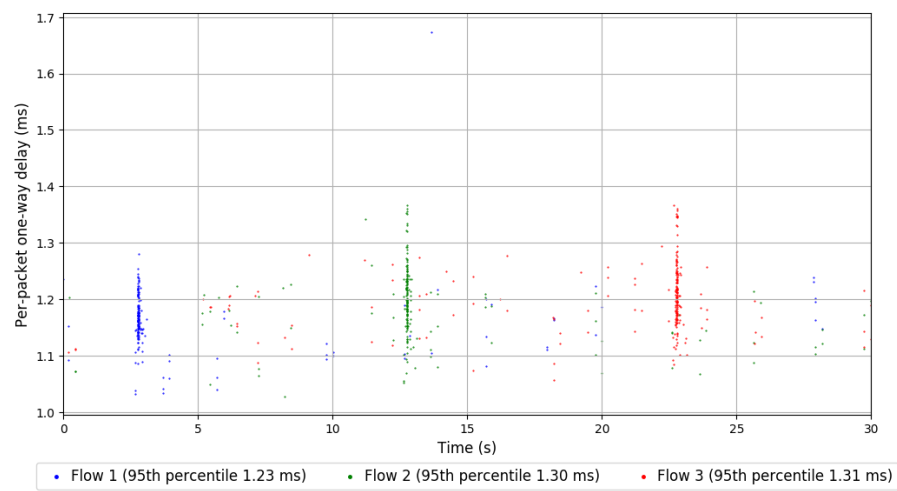
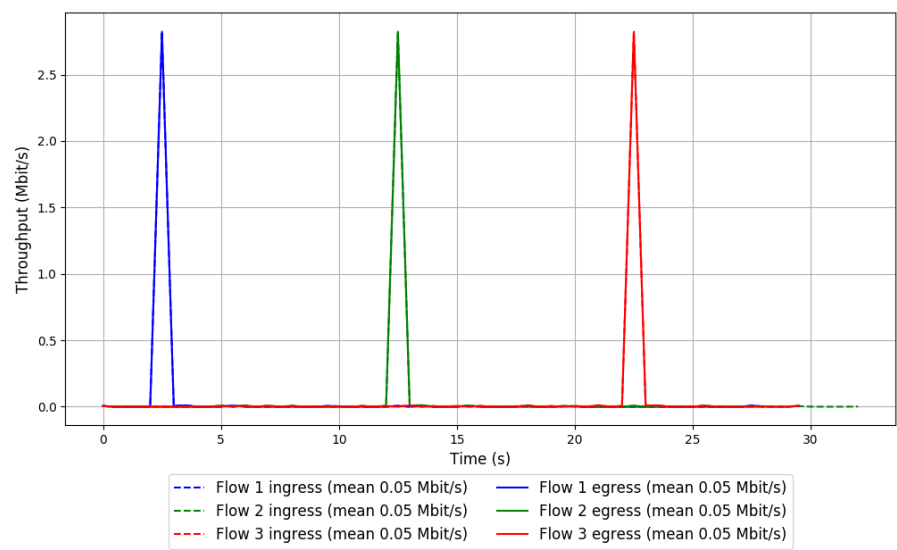


Run 3: Statistics of WebRTC media

Start at: 2018-04-24 17:58:16  
End at: 2018-04-24 17:58:46  
Local clock offset: -0.383 ms  
Remote clock offset: -5.894 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.282 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.234 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.296 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.315 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 18:24:50

End at: 2018-04-24 18:25:20

Local clock offset: -1.414 ms

Remote clock offset: -4.93 ms

# Below is generated by plot.py at 2018-04-25 03:05:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.00%

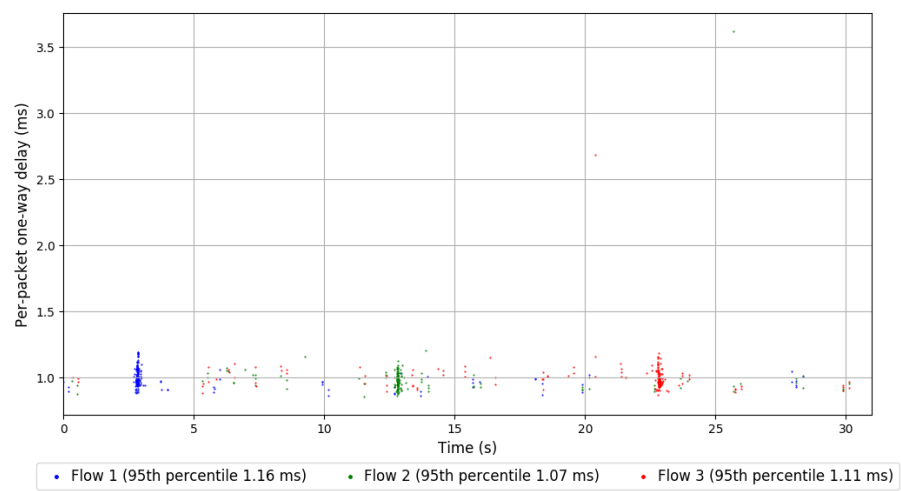
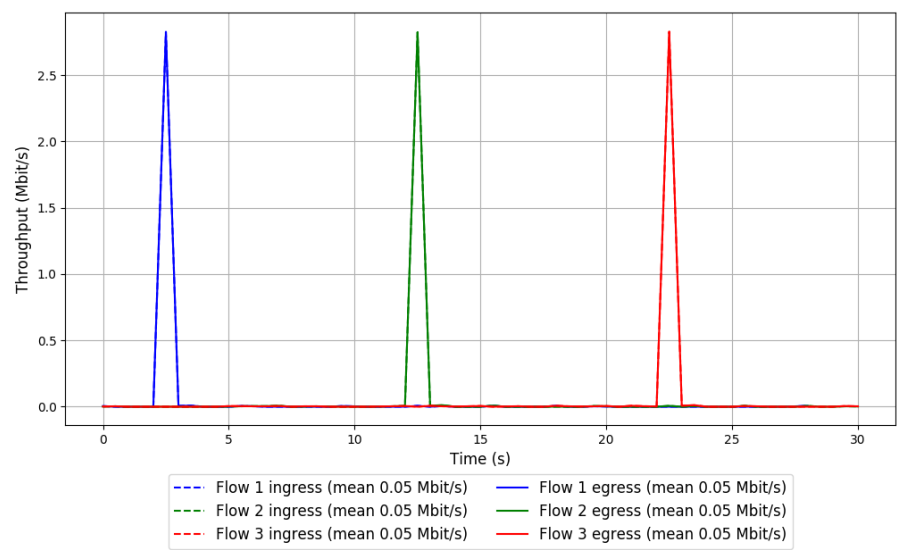
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



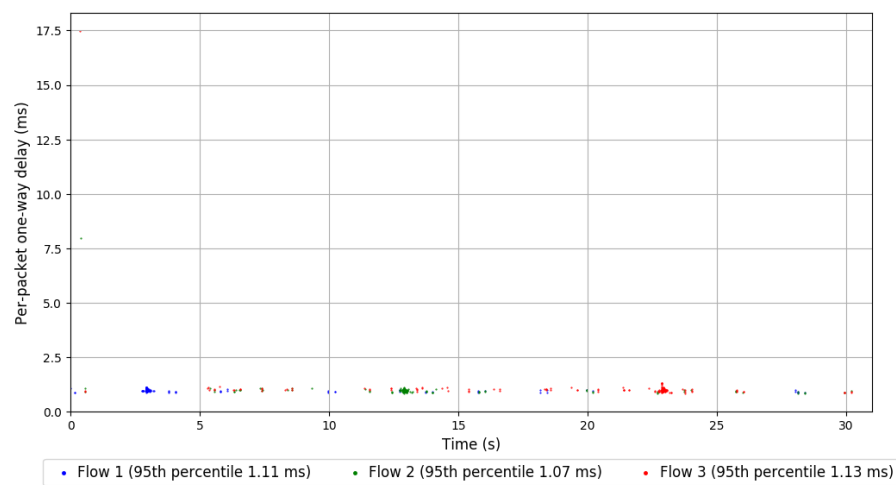
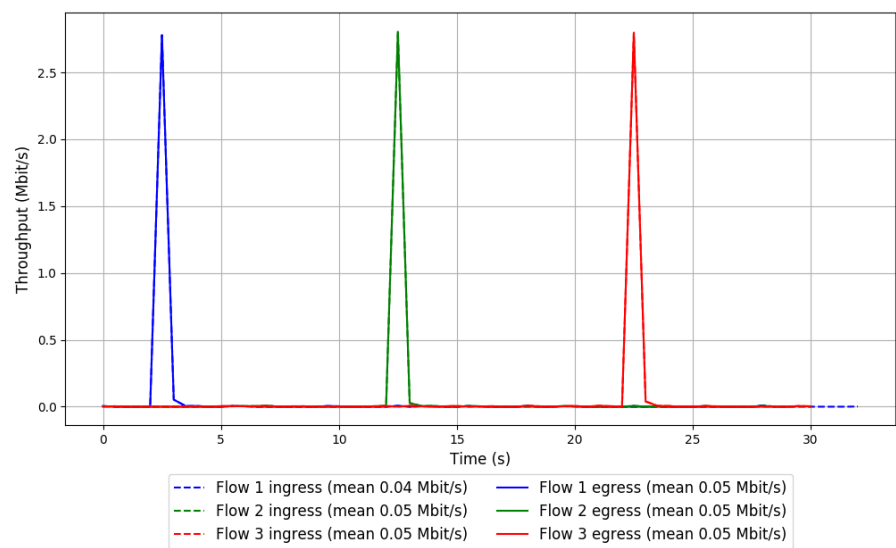


Run 5: Statistics of WebRTC media

Start at: 2018-04-24 18:51:11  
End at: 2018-04-24 18:51:41  
Local clock offset: -0.479 ms  
Remote clock offset: -6.372 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.102 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.113 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.075 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.134 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

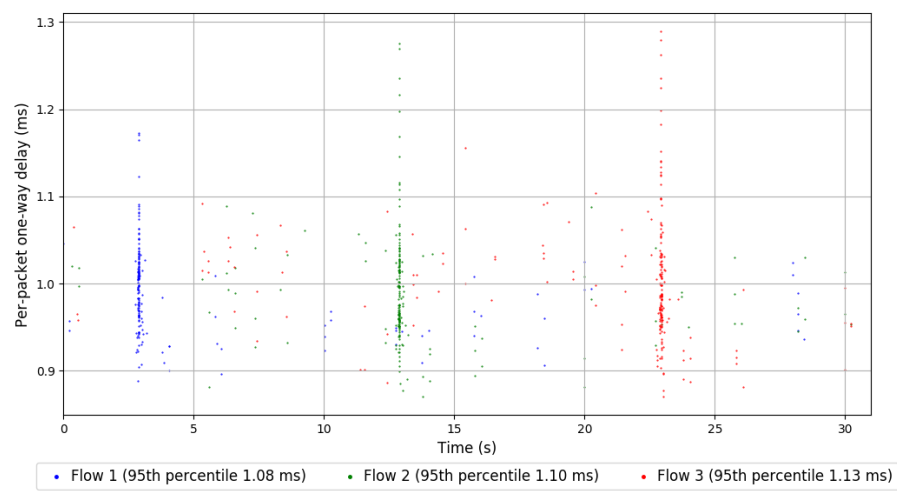
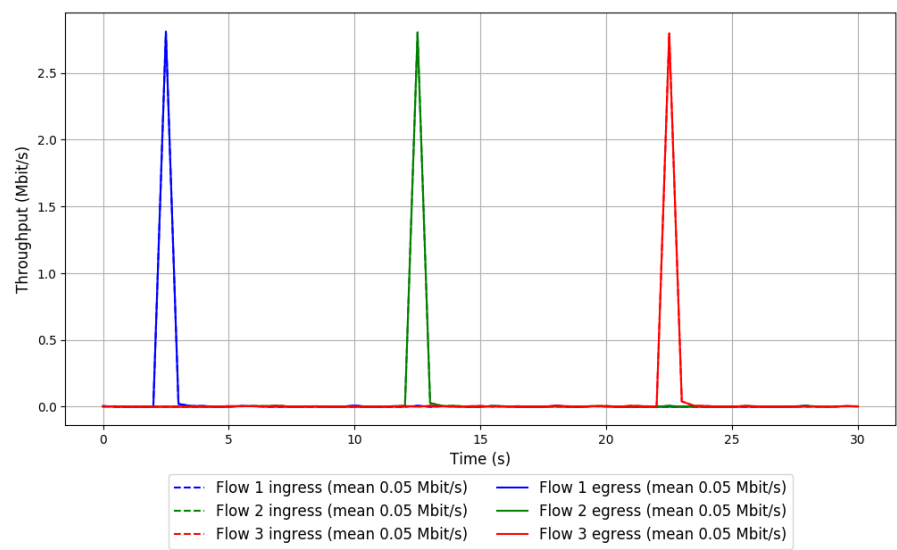


Run 6: Statistics of WebRTC media

Start at: 2018-04-24 19:17:57  
End at: 2018-04-24 19:18:27  
Local clock offset: 0.789 ms  
Remote clock offset: -6.104 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.098 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.078 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.097 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.134 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

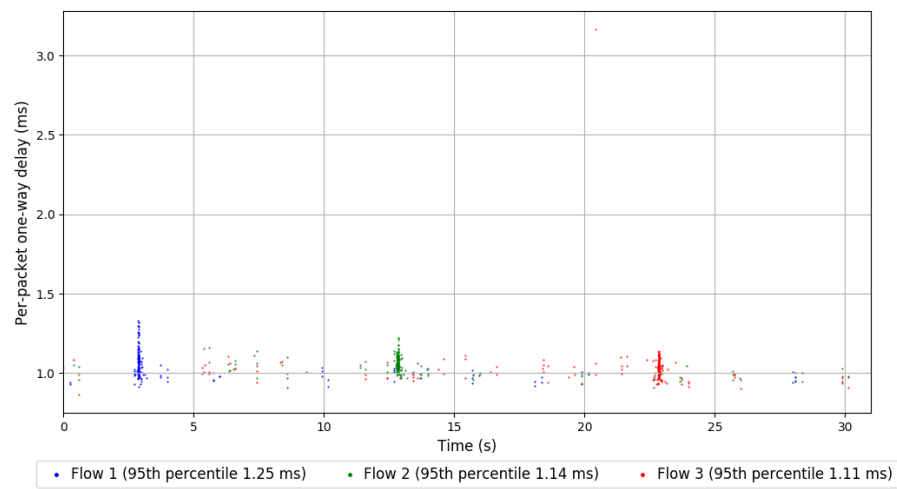
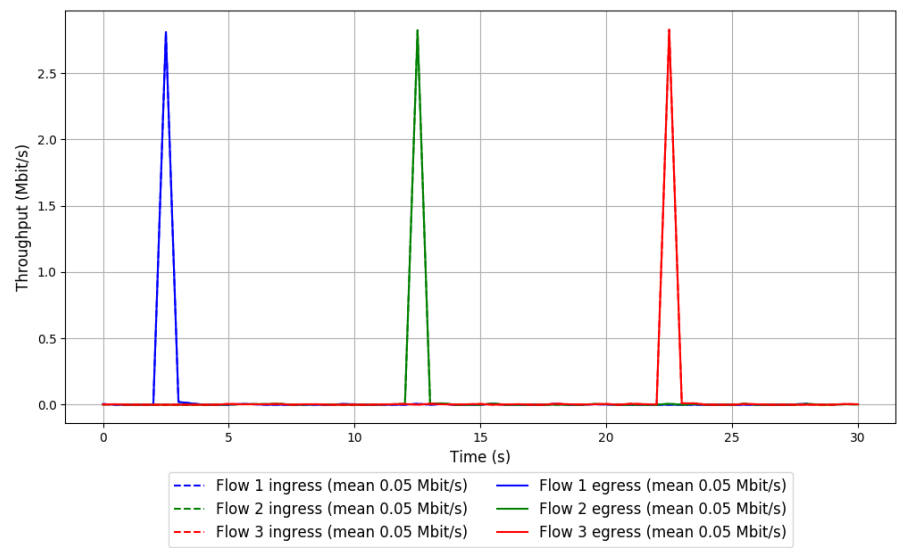


Run 7: Statistics of WebRTC media

Start at: 2018-04-24 19:44:35  
End at: 2018-04-24 19:45:05  
Local clock offset: 1.021 ms  
Remote clock offset: -5.587 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.149 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.253 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.139 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.112 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

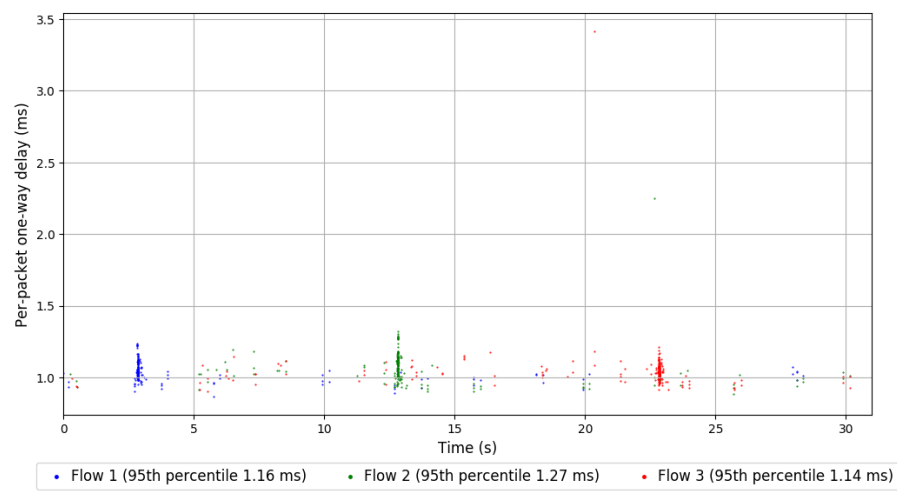
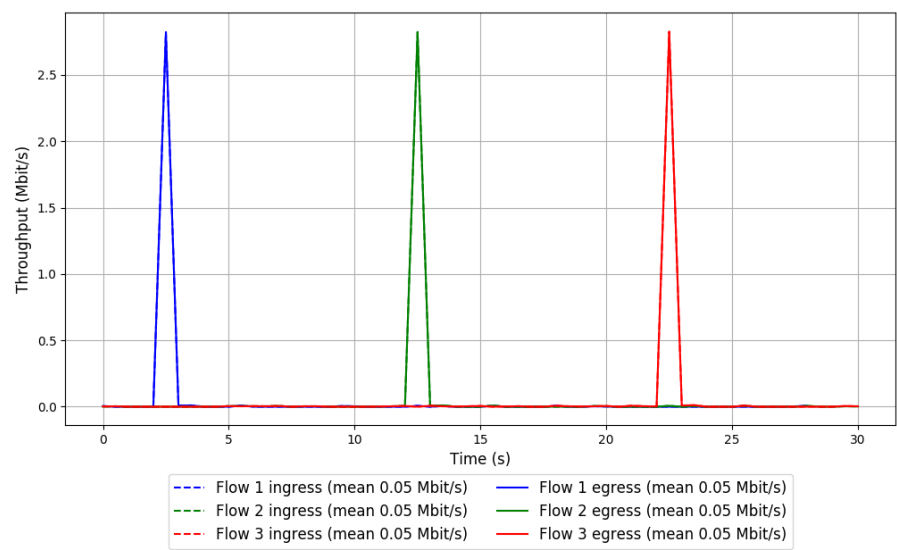


Run 8: Statistics of WebRTC media

Start at: 2018-04-24 20:11:07  
End at: 2018-04-24 20:11:37  
Local clock offset: 0.384 ms  
Remote clock offset: -5.203 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.177 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.162 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.272 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.140 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



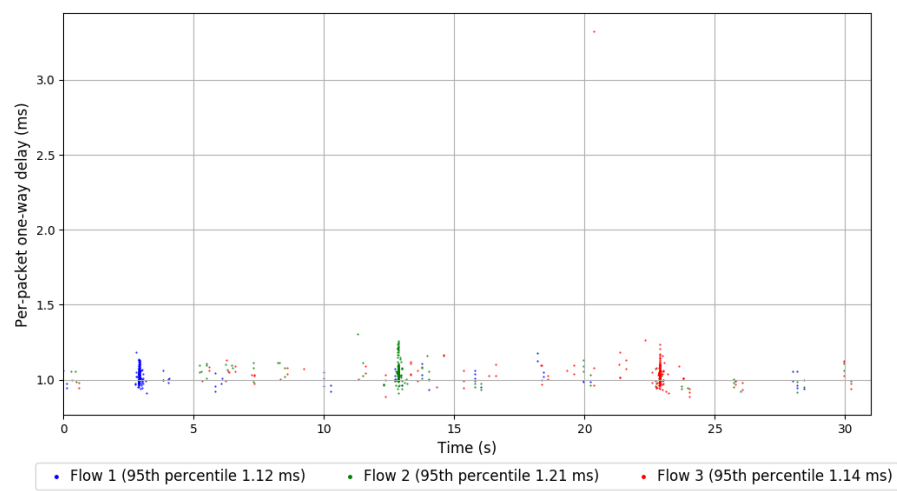
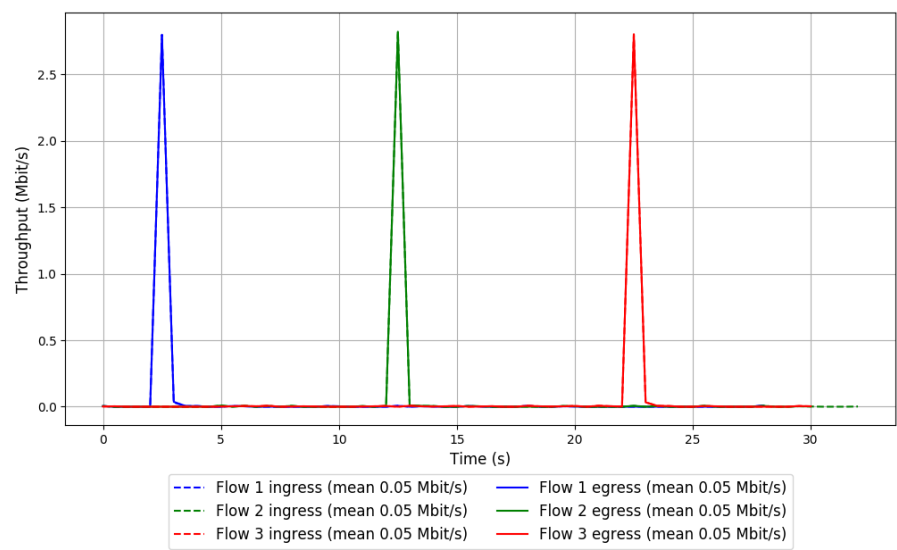


Run 9: Statistics of WebRTC media

Start at: 2018-04-24 20:37:38  
End at: 2018-04-24 20:38:08  
Local clock offset: 0.398 ms  
Remote clock offset: -5.197 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.157 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.122 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.206 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.144 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

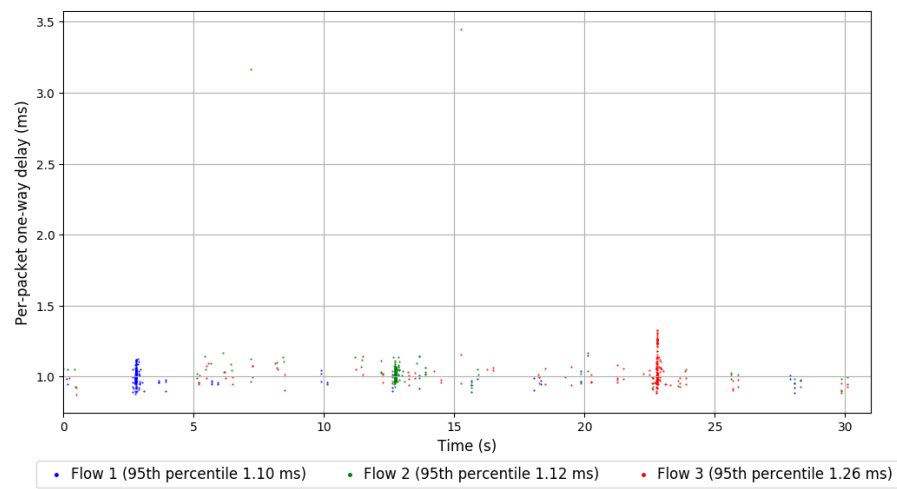
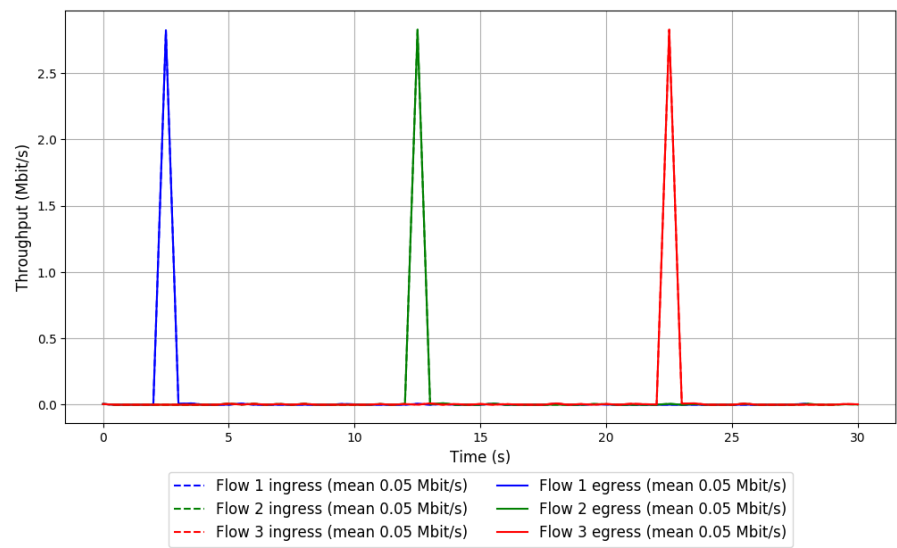


Run 10: Statistics of WebRTC media

Start at: 2018-04-24 21:04:12  
End at: 2018-04-24 21:04:42  
Local clock offset: 0.506 ms  
Remote clock offset: -5.268 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 1.180 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.104 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.124 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.263 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

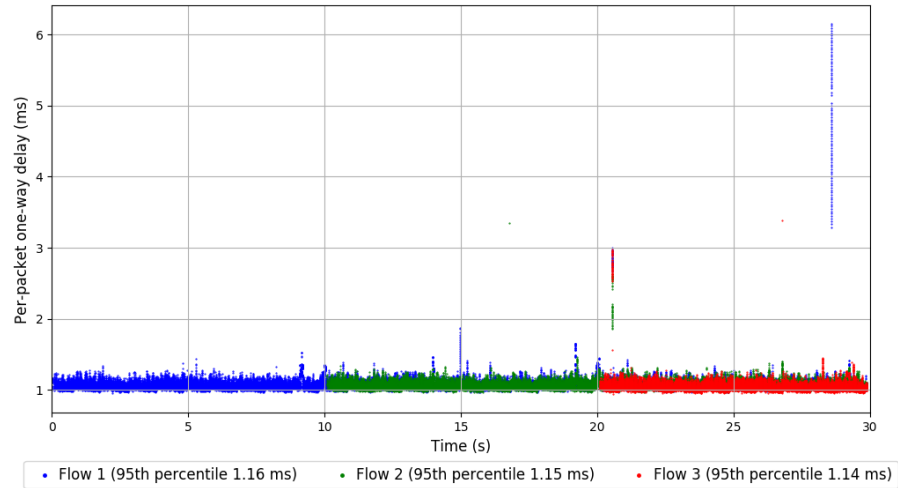
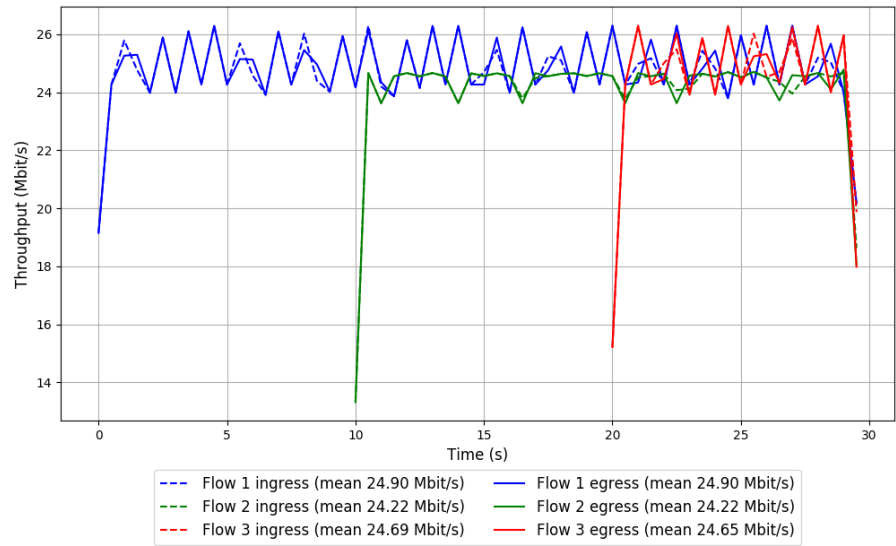


Run 1: Statistics of Sprout

Start at: 2018-04-24 17:09:34  
End at: 2018-04-24 17:10:04  
Local clock offset: 0.389 ms  
Remote clock offset: -4.903 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.08 Mbit/s  
95th percentile per-packet one-way delay: 1.153 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 24.90 Mbit/s  
95th percentile per-packet one-way delay: 1.158 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.22 Mbit/s  
95th percentile per-packet one-way delay: 1.154 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 24.65 Mbit/s  
95th percentile per-packet one-way delay: 1.135 ms  
Loss rate: 0.39%

## Run 1: Report of Sprout — Data Link

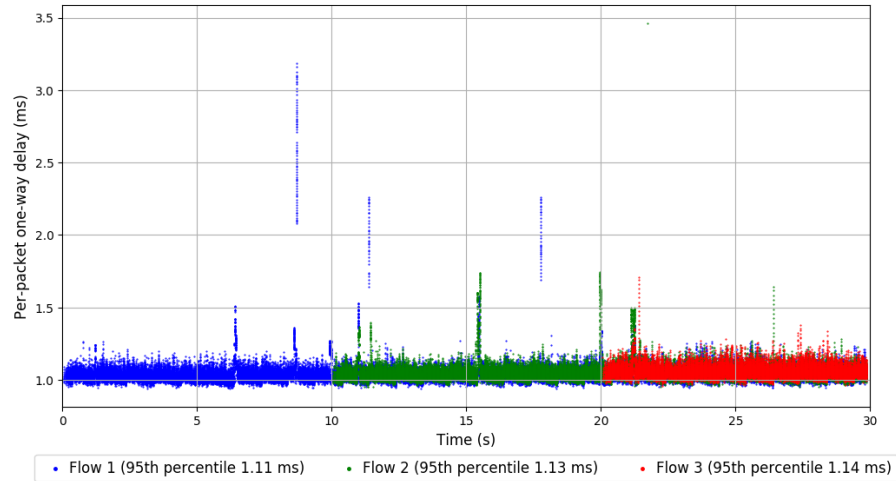
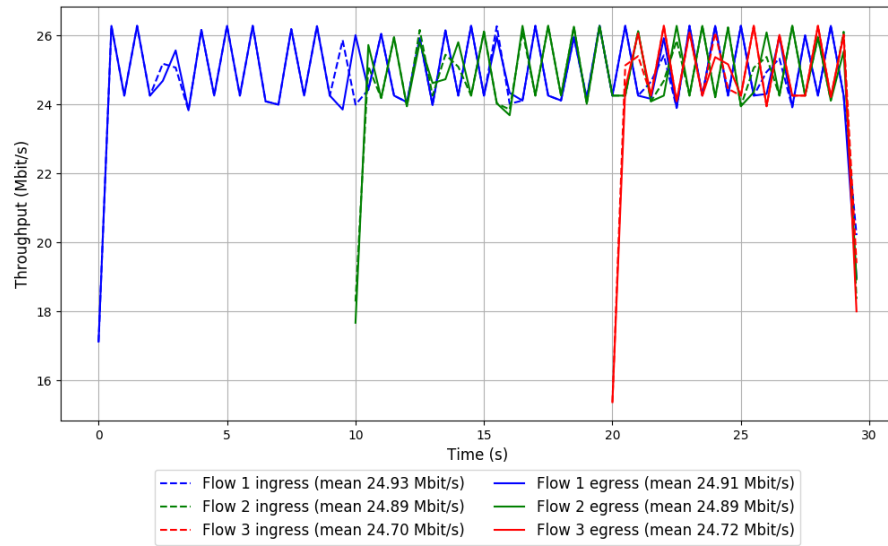


Run 2: Statistics of Sprout

Start at: 2018-04-24 17:36:11  
End at: 2018-04-24 17:36:41  
Local clock offset: 0.395 ms  
Remote clock offset: -5.95 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.57 Mbit/s  
95th percentile per-packet one-way delay: 1.124 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 24.91 Mbit/s  
95th percentile per-packet one-way delay: 1.114 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 24.89 Mbit/s  
95th percentile per-packet one-way delay: 1.128 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 24.72 Mbit/s  
95th percentile per-packet one-way delay: 1.140 ms  
Loss rate: 0.29%

## Run 2: Report of Sprout — Data Link



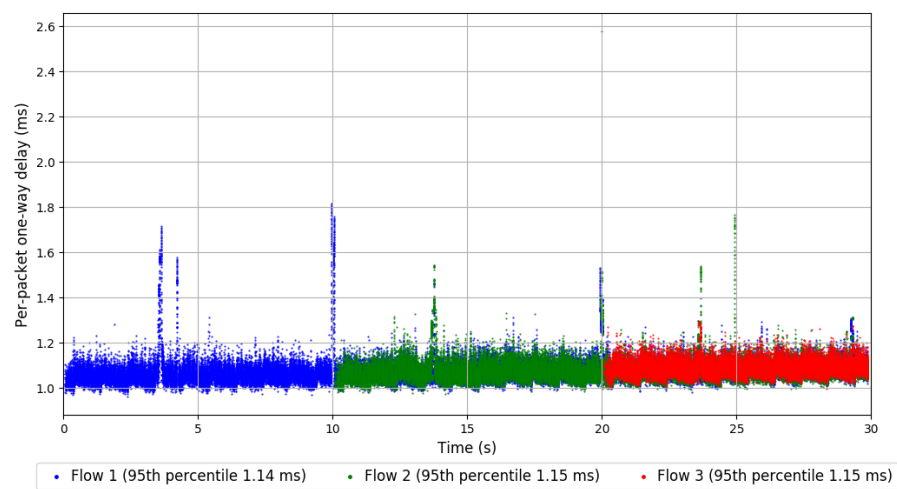
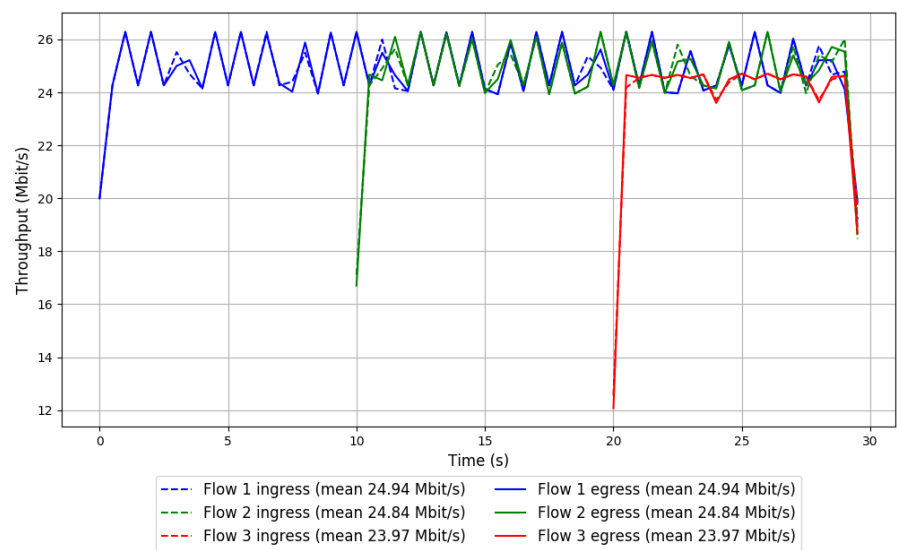


### Run 3: Statistics of Sprout

Start at: 2018-04-24 18:02:48  
End at: 2018-04-24 18:03:18  
Local clock offset: -0.547 ms  
Remote clock offset: -5.518 ms

```
# Below is generated by plot.py at 2018-04-25 03:05:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.31 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 1.151 ms
Loss rate: 0.21%
```

Run 3: Report of Sprout — Data Link

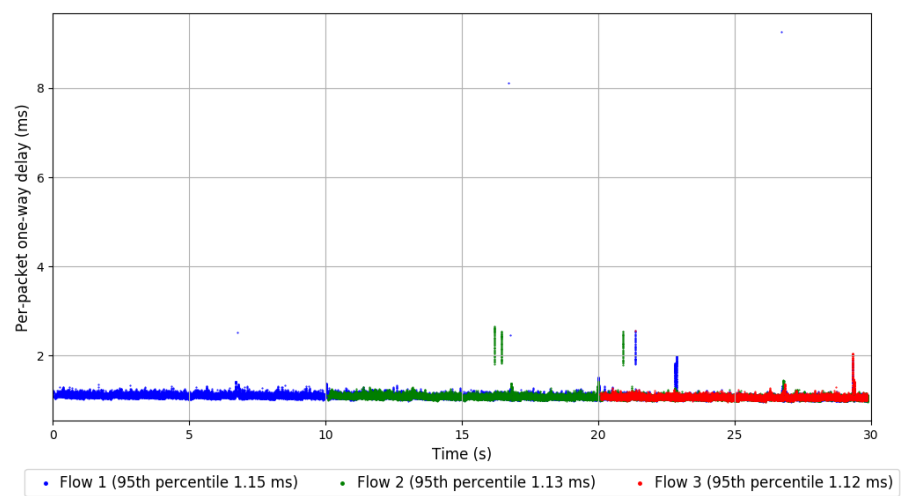
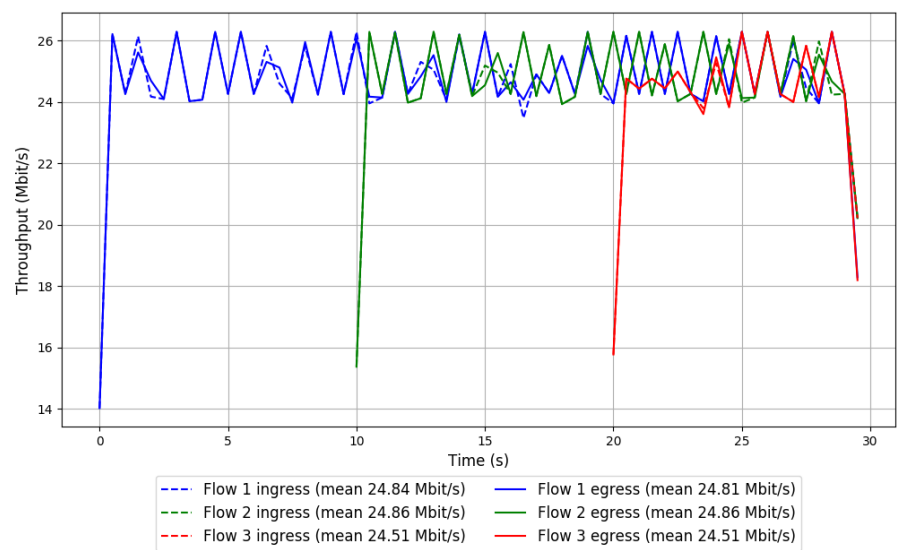


#### Run 4: Statistics of Sprout

Start at: 2018-04-24 18:29:25  
End at: 2018-04-24 18:29:55  
Local clock offset: -1.441 ms  
Remote clock offset: -5.057 ms

```
# Below is generated by plot.py at 2018-04-25 03:05:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.35 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.86 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 1.120 ms
Loss rate: 0.42%
```

Run 4: Report of Sprout — Data Link

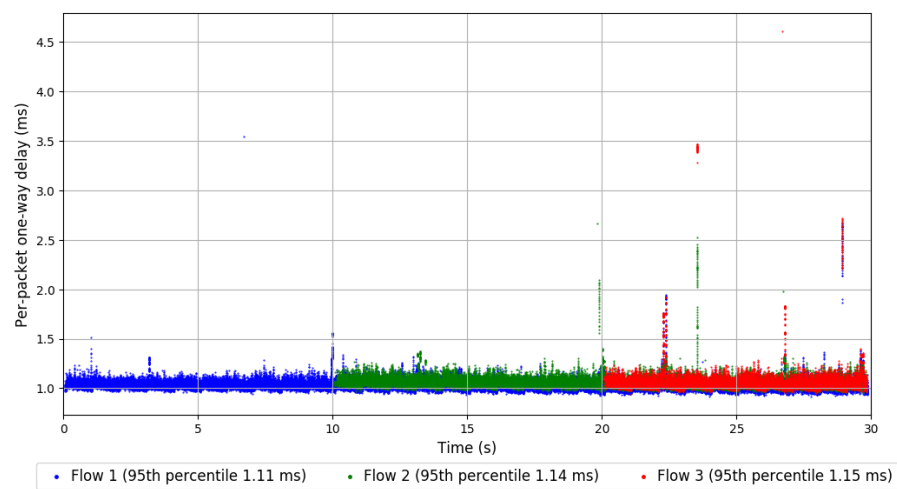
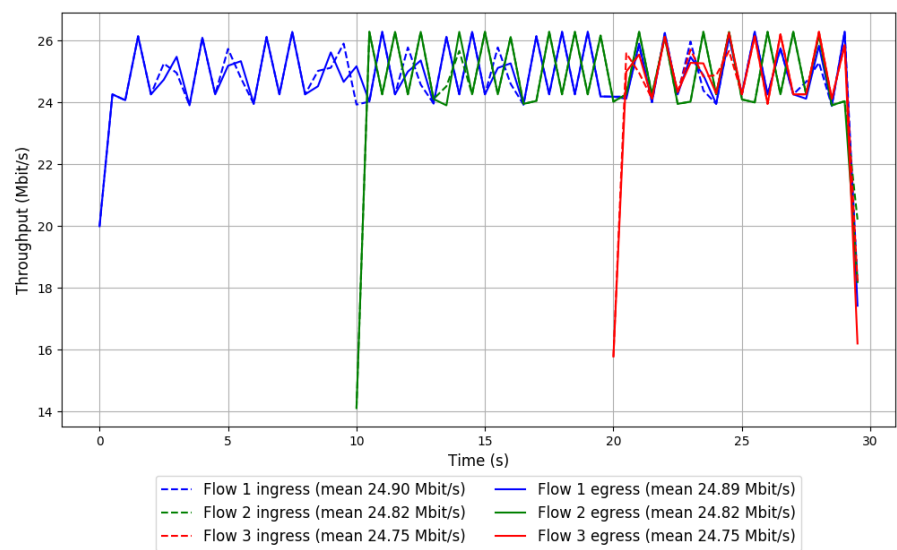


Run 5: Statistics of Sprout

Start at: 2018-04-24 18:55:48  
End at: 2018-04-24 18:56:18  
Local clock offset: -0.006 ms  
Remote clock offset: -6.427 ms

```
# Below is generated by plot.py at 2018-04-25 03:05:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.46 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 1.145 ms
Loss rate: 0.42%
```

Run 5: Report of Sprout — Data Link

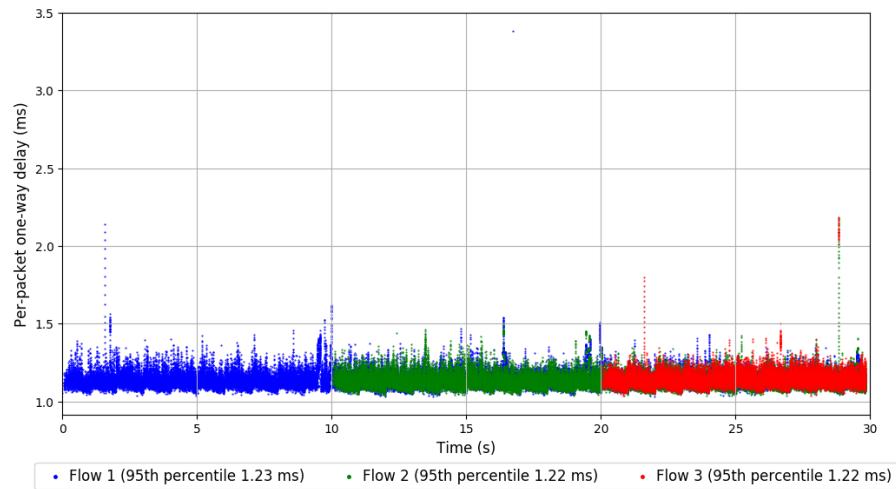
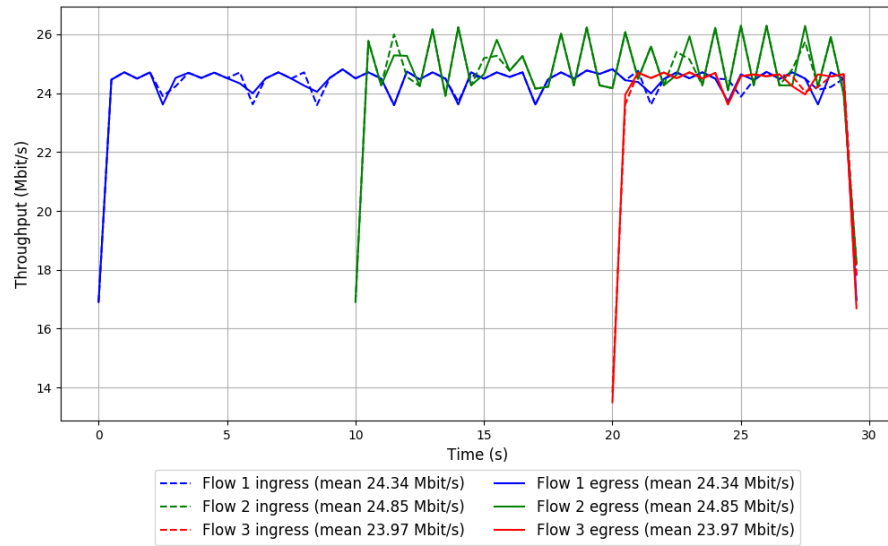


Run 6: Statistics of Sprout

Start at: 2018-04-24 19:22:31  
End at: 2018-04-24 19:23:01  
Local clock offset: 0.786 ms  
Remote clock offset: -6.111 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.74 Mbit/s  
95th percentile per-packet one-way delay: 1.225 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 24.34 Mbit/s  
95th percentile per-packet one-way delay: 1.230 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 24.85 Mbit/s  
95th percentile per-packet one-way delay: 1.221 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.97 Mbit/s  
95th percentile per-packet one-way delay: 1.223 ms  
Loss rate: 0.22%

## Run 6: Report of Sprout — Data Link



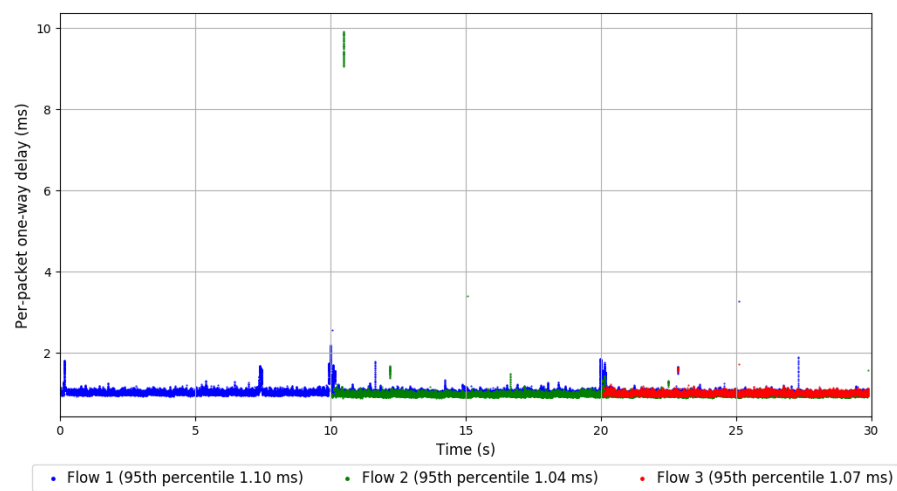
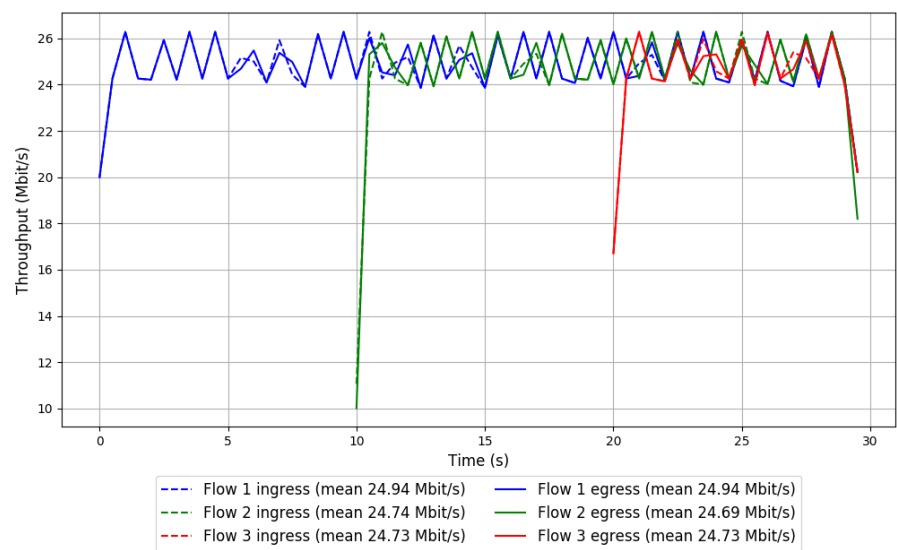


Run 7: Statistics of Sprout

Start at: 2018-04-24 19:49:10  
End at: 2018-04-24 19:49:40  
Local clock offset: 1.04 ms  
Remote clock offset: -5.524 ms

```
# Below is generated by plot.py at 2018-04-25 03:05:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 1.080 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 1.042 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-24 20:15:42

End at: 2018-04-24 20:16:12

Local clock offset: 0.441 ms

Remote clock offset: -5.25 ms

# Below is generated by plot.py at 2018-04-25 03:05:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 49.44 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 24.86 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 24.84 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.00%

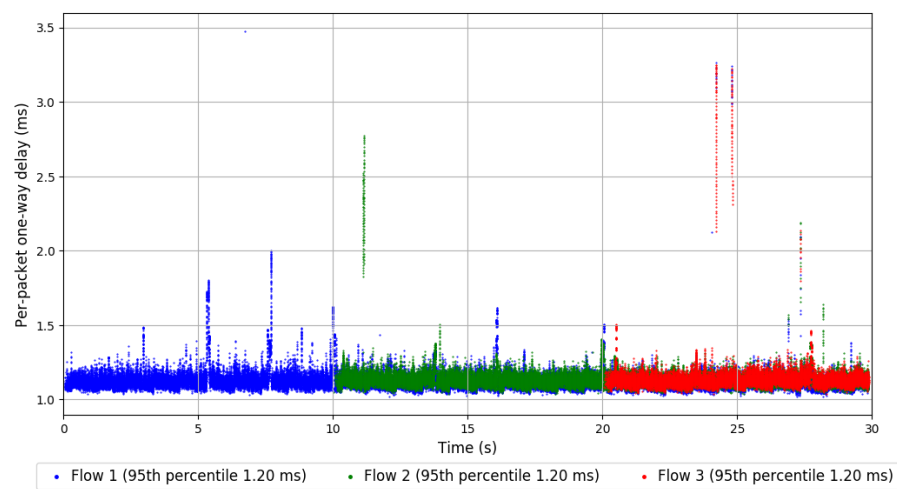
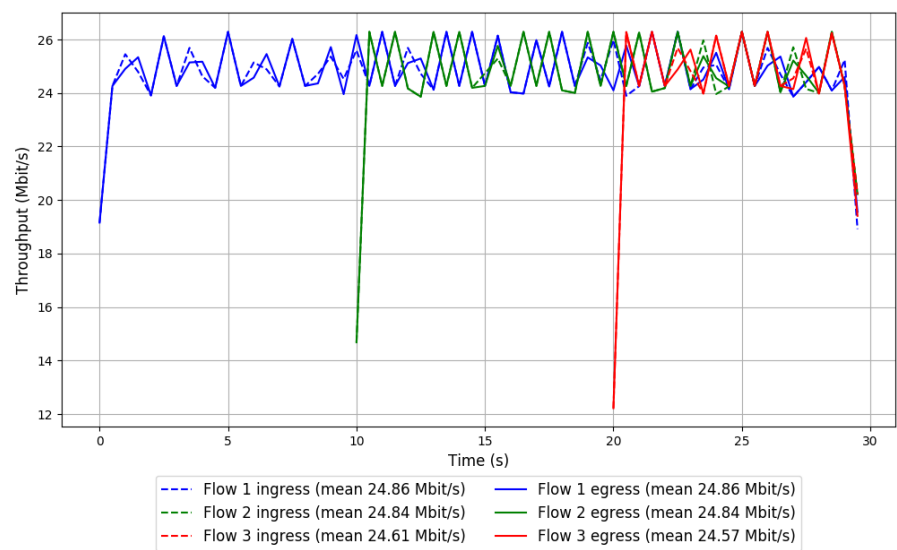
-- Flow 3:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.17%

Run 8: Report of Sprout — Data Link

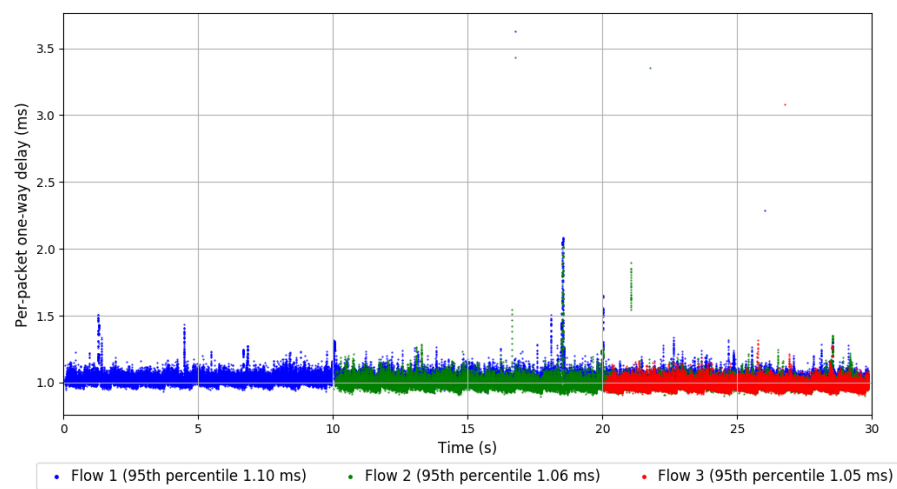
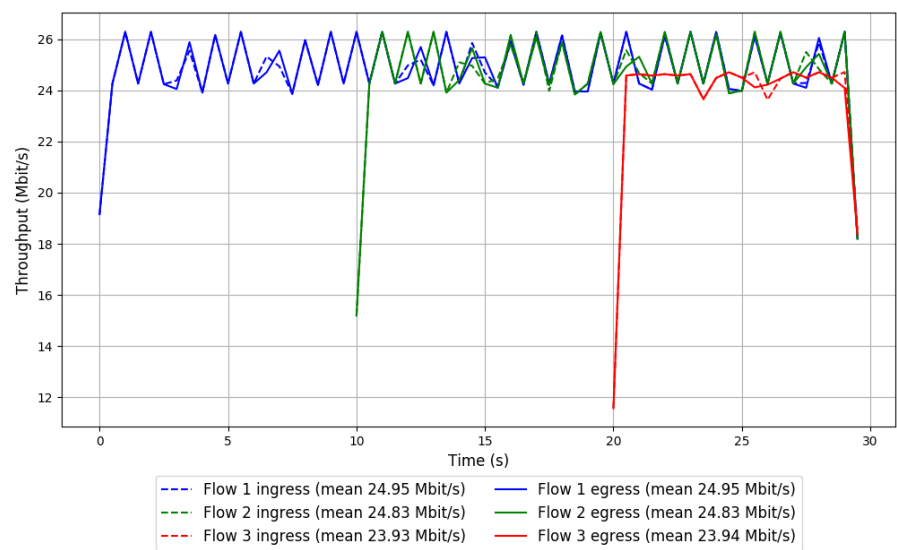


Run 9: Statistics of Sprout

Start at: 2018-04-24 20:42:11  
End at: 2018-04-24 20:42:41  
Local clock offset: 0.419 ms  
Remote clock offset: -5.161 ms

# Below is generated by plot.py at 2018-04-25 03:05:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 49.30 Mbit/s  
95th percentile per-packet one-way delay: 1.087 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 24.95 Mbit/s  
95th percentile per-packet one-way delay: 1.102 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 24.83 Mbit/s  
95th percentile per-packet one-way delay: 1.064 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 23.94 Mbit/s  
95th percentile per-packet one-way delay: 1.047 ms  
Loss rate: 0.18%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-24 21:08:46

End at: 2018-04-24 21:09:16

Local clock offset: 0.435 ms

Remote clock offset: -5.31 ms

# Below is generated by plot.py at 2018-04-25 03:05:17

# Datalink statistics

-- Total of 3 flows:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 24.28 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 24.30 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.09%

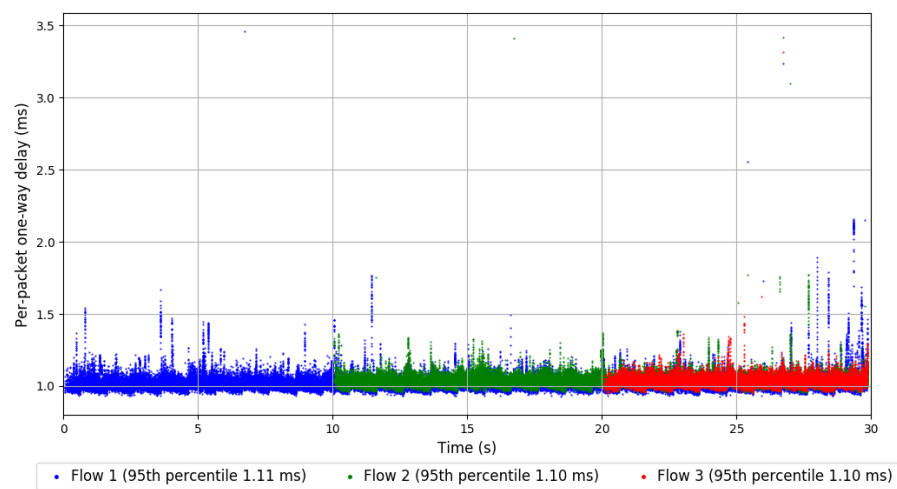
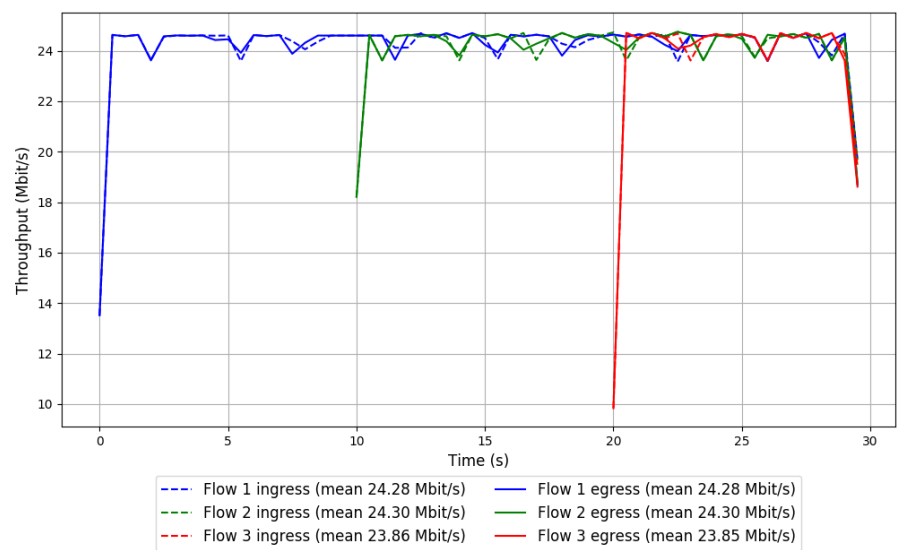
-- Flow 3:

Average throughput: 23.85 Mbit/s

95th percentile per-packet one-way delay: 1.101 ms

Loss rate: 0.23%

Run 10: Report of Sprout — Data Link



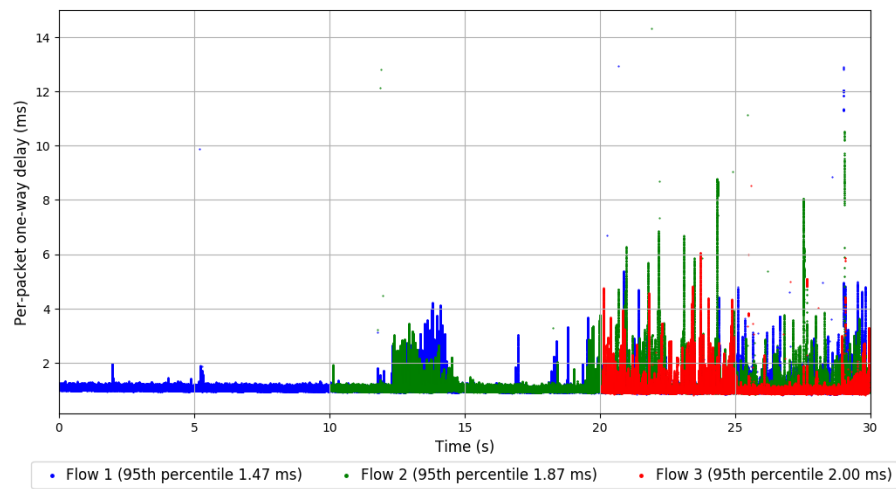
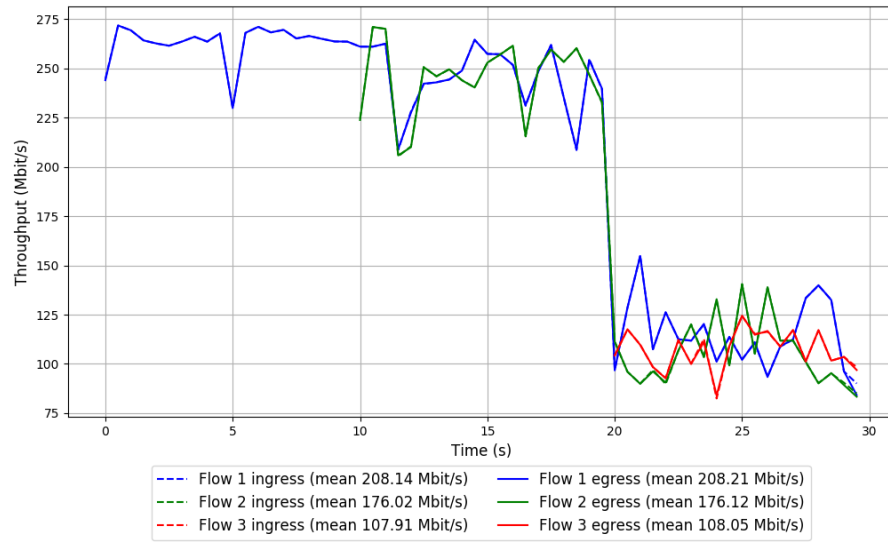


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 17:20:31  
End at: 2018-04-24 17:21:01  
Local clock offset: 0.466 ms  
Remote clock offset: -4.668 ms

# Below is generated by plot.py at 2018-04-25 03:11:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 361.10 Mbit/s  
95th percentile per-packet one-way delay: 1.697 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 208.21 Mbit/s  
95th percentile per-packet one-way delay: 1.470 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 176.12 Mbit/s  
95th percentile per-packet one-way delay: 1.873 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 108.05 Mbit/s  
95th percentile per-packet one-way delay: 1.995 ms  
Loss rate: 0.07%

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

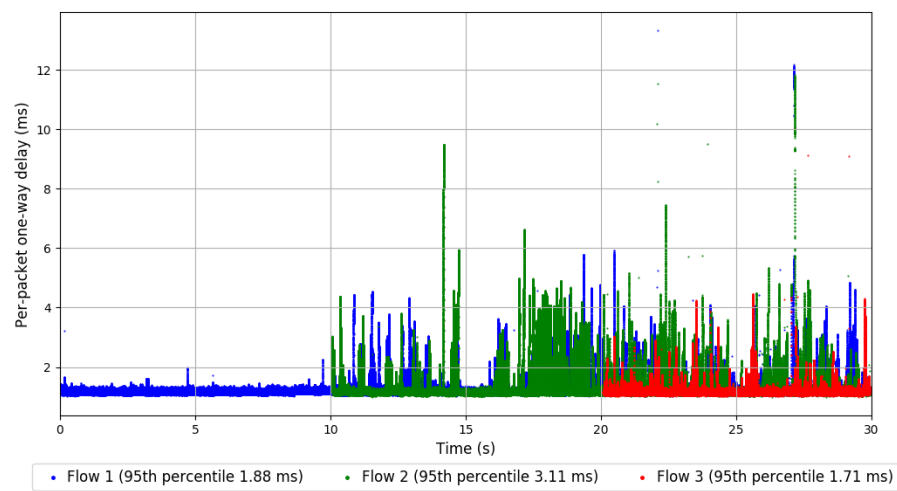
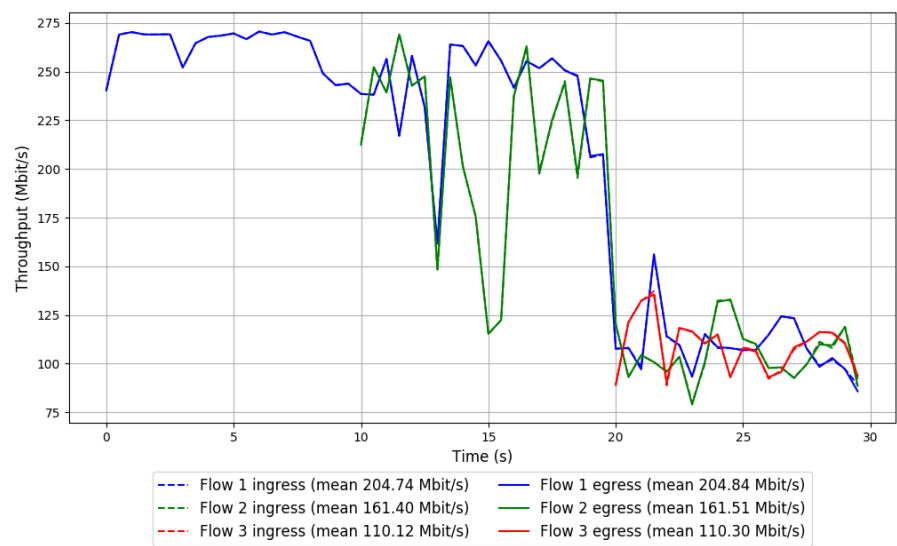


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 17:47:09  
End at: 2018-04-24 17:47:39  
Local clock offset: 0.03 ms  
Remote clock offset: -6.215 ms

# Below is generated by plot.py at 2018-04-25 03:11:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 348.68 Mbit/s  
95th percentile per-packet one-way delay: 2.322 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 204.84 Mbit/s  
95th percentile per-packet one-way delay: 1.878 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 161.51 Mbit/s  
95th percentile per-packet one-way delay: 3.107 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 110.30 Mbit/s  
95th percentile per-packet one-way delay: 1.714 ms  
Loss rate: 0.04%

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

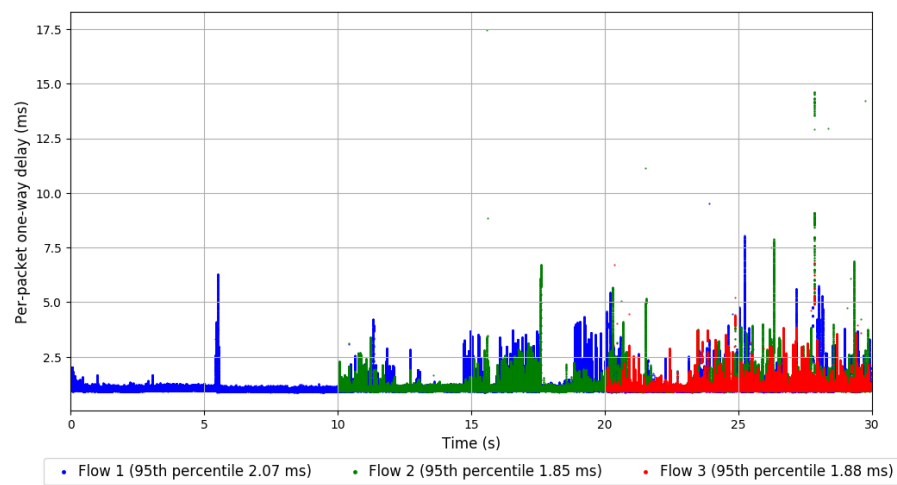
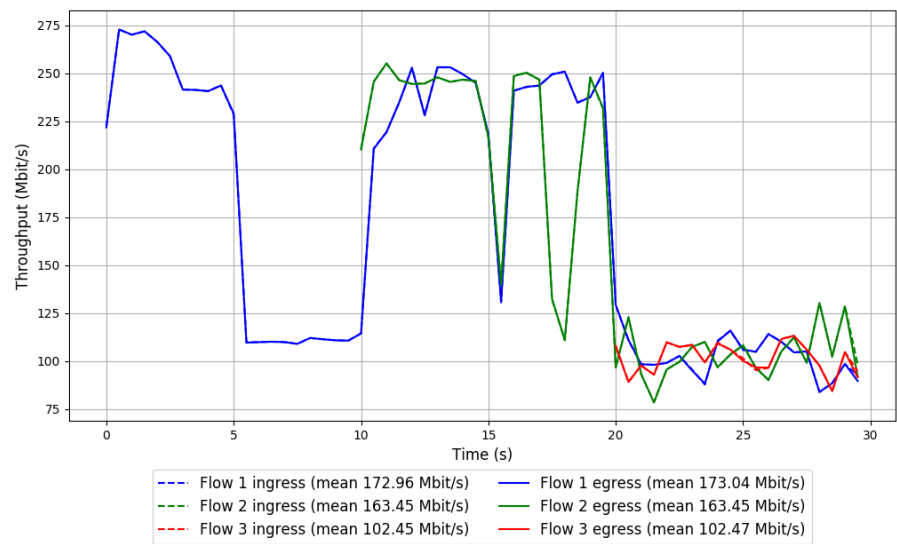


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 18:13:46  
End at: 2018-04-24 18:14:16  
Local clock offset: -1.003 ms  
Remote clock offset: -5.174 ms

# Below is generated by plot.py at 2018-04-25 03:11:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 315.66 Mbit/s  
95th percentile per-packet one-way delay: 1.961 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 173.04 Mbit/s  
95th percentile per-packet one-way delay: 2.067 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 163.45 Mbit/s  
95th percentile per-packet one-way delay: 1.848 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 102.47 Mbit/s  
95th percentile per-packet one-way delay: 1.882 ms  
Loss rate: 0.16%

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

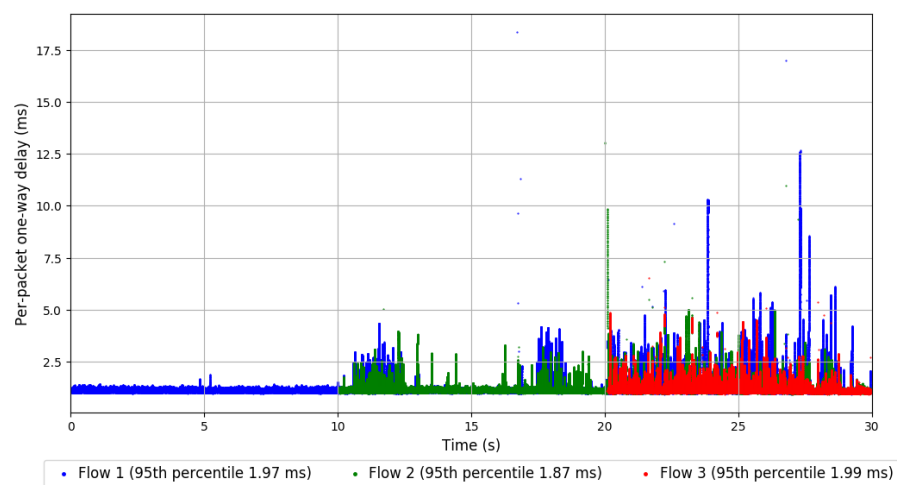
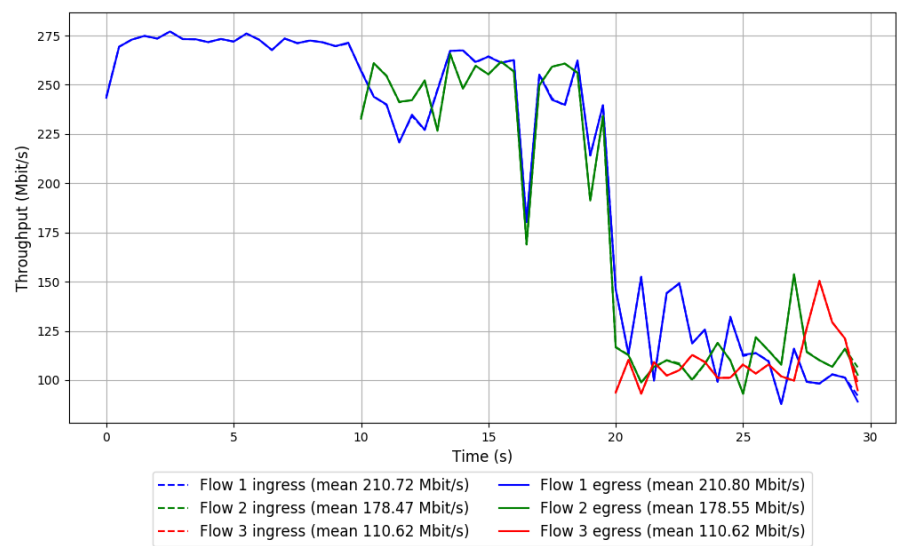


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 18:40:05  
End at: 2018-04-24 18:40:35  
Local clock offset: -1.789 ms  
Remote clock offset: -6.014 ms

# Below is generated by plot.py at 2018-04-25 03:11:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 365.96 Mbit/s  
95th percentile per-packet one-way delay: 1.933 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 210.80 Mbit/s  
95th percentile per-packet one-way delay: 1.967 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 178.55 Mbit/s  
95th percentile per-packet one-way delay: 1.872 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 110.62 Mbit/s  
95th percentile per-packet one-way delay: 1.989 ms  
Loss rate: 0.18%

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



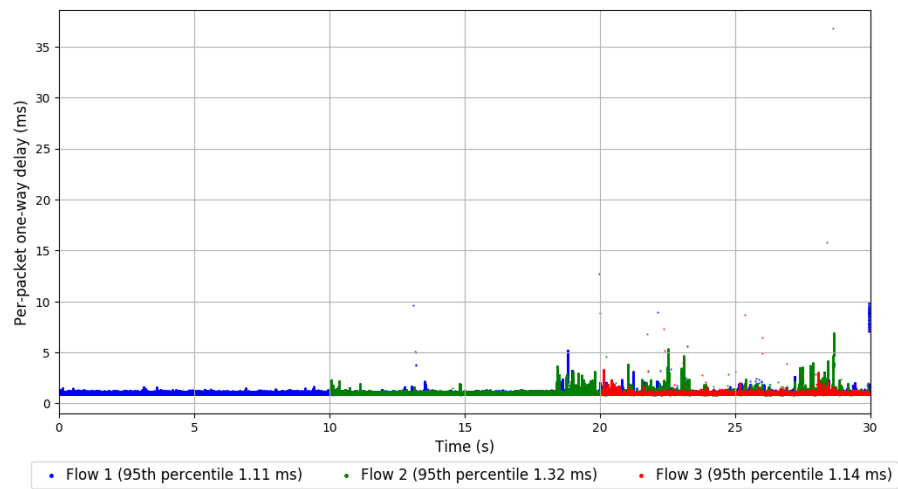
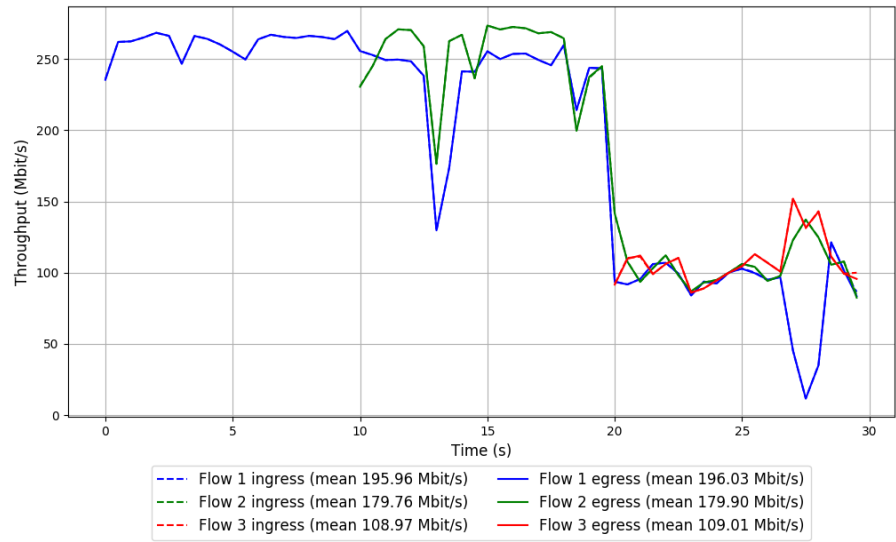


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 19:06:48  
End at: 2018-04-24 19:07:18  
Local clock offset: 0.492 ms  
Remote clock offset: -6.303 ms

# Below is generated by plot.py at 2018-04-25 03:11:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 351.82 Mbit/s  
95th percentile per-packet one-way delay: 1.144 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 196.03 Mbit/s  
95th percentile per-packet one-way delay: 1.110 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 179.90 Mbit/s  
95th percentile per-packet one-way delay: 1.323 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 109.01 Mbit/s  
95th percentile per-packet one-way delay: 1.141 ms  
Loss rate: 0.21%

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

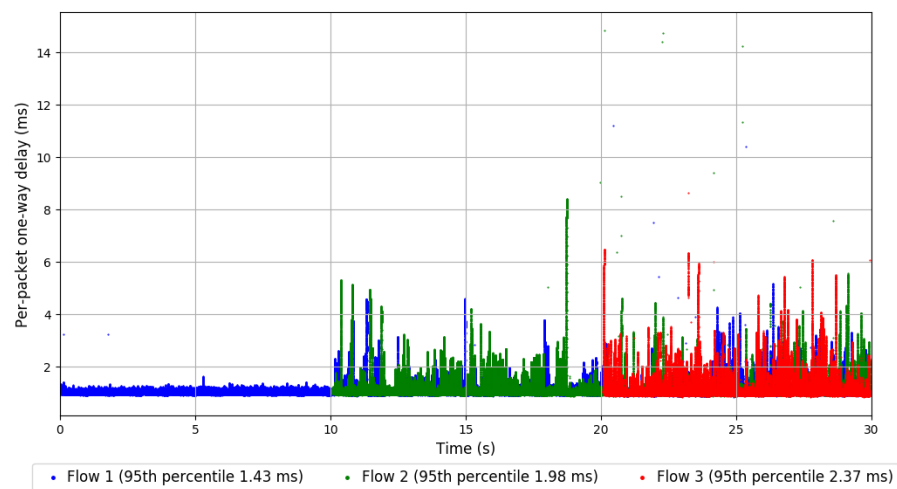
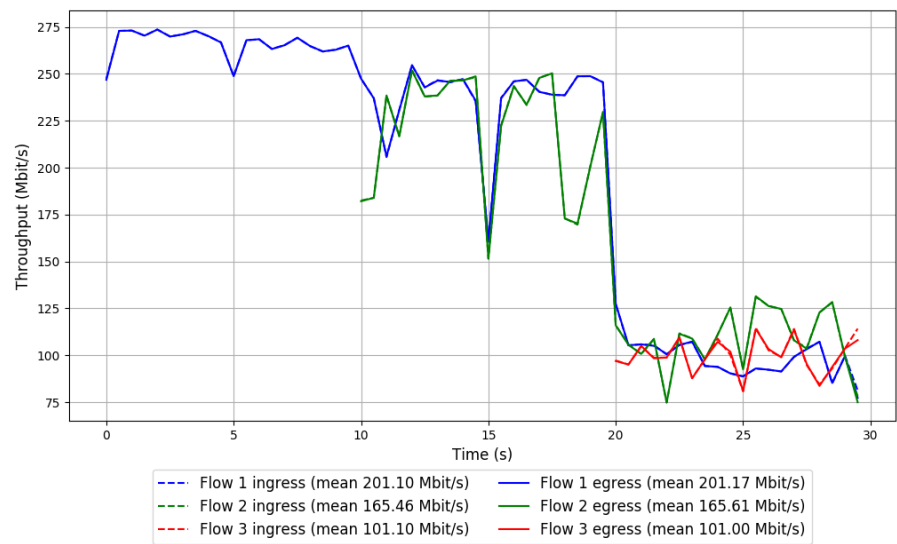


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 19:33:25  
End at: 2018-04-24 19:33:55  
Local clock offset: 0.718 ms  
Remote clock offset: -6.101 ms

# Below is generated by plot.py at 2018-04-25 03:11:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 344.48 Mbit/s  
95th percentile per-packet one-way delay: 1.734 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 201.17 Mbit/s  
95th percentile per-packet one-way delay: 1.431 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 165.61 Mbit/s  
95th percentile per-packet one-way delay: 1.975 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 101.00 Mbit/s  
95th percentile per-packet one-way delay: 2.373 ms  
Loss rate: 0.31%

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

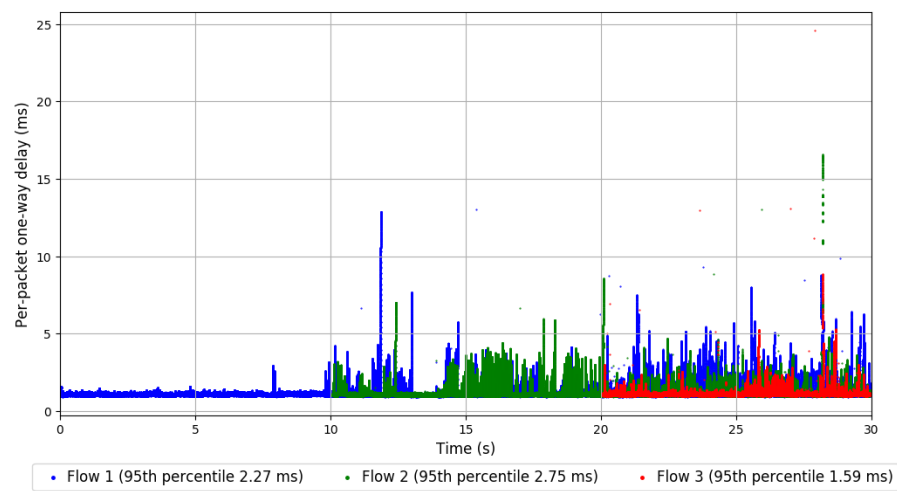
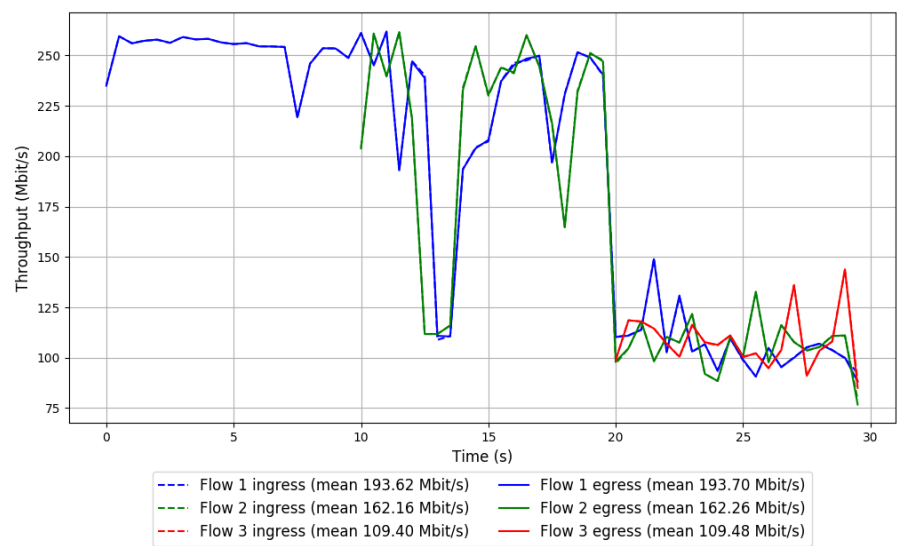


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 20:00:02  
End at: 2018-04-24 20:00:32  
Local clock offset: 0.668 ms  
Remote clock offset: -5.254 ms

# Below is generated by plot.py at 2018-04-25 03:11:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 337.74 Mbit/s  
95th percentile per-packet one-way delay: 2.419 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 193.70 Mbit/s  
95th percentile per-packet one-way delay: 2.268 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 162.26 Mbit/s  
95th percentile per-packet one-way delay: 2.746 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 109.48 Mbit/s  
95th percentile per-packet one-way delay: 1.594 ms  
Loss rate: 0.13%

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

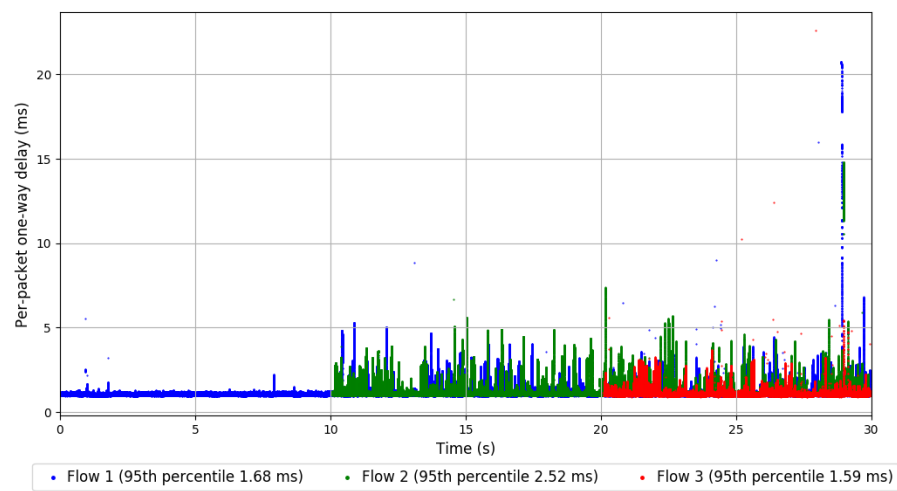
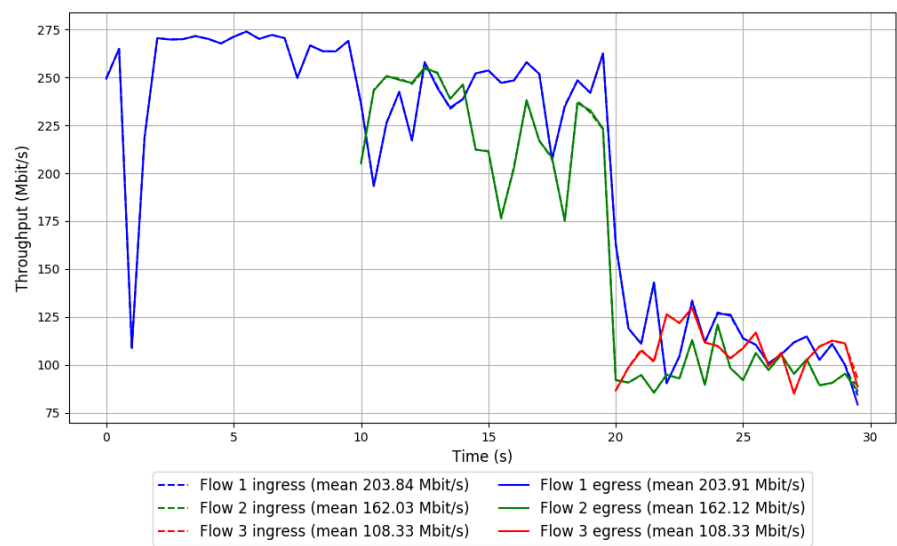


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 20:26:32  
End at: 2018-04-24 20:27:02  
Local clock offset: 0.444 ms  
Remote clock offset: -5.196 ms

# Below is generated by plot.py at 2018-04-25 03:14:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 347.36 Mbit/s  
95th percentile per-packet one-way delay: 2.017 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 203.91 Mbit/s  
95th percentile per-packet one-way delay: 1.684 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 162.12 Mbit/s  
95th percentile per-packet one-way delay: 2.515 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 108.33 Mbit/s  
95th percentile per-packet one-way delay: 1.587 ms  
Loss rate: 0.21%

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



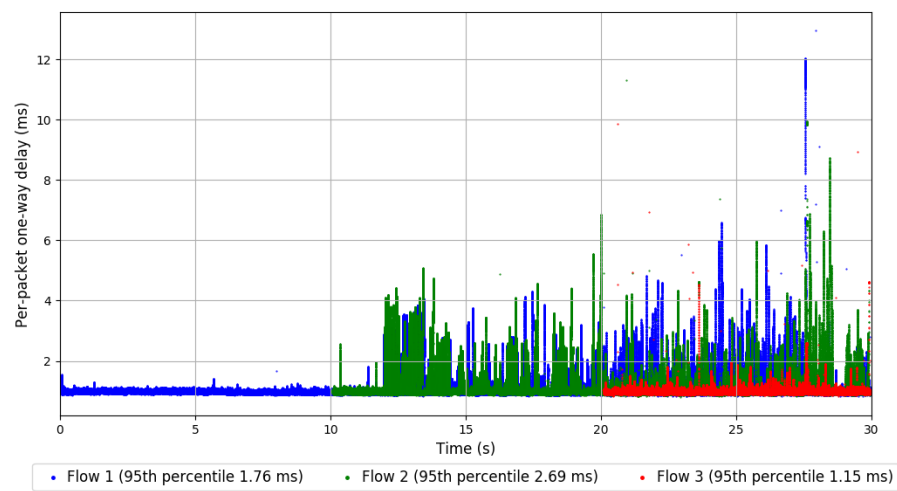
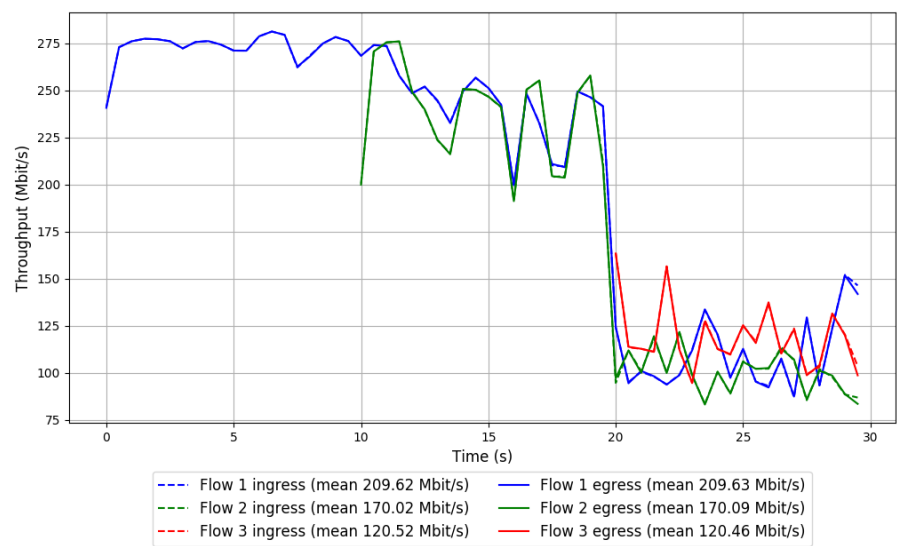


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 20:53:01  
End at: 2018-04-24 20:53:31  
Local clock offset: 0.55 ms  
Remote clock offset: -5.207 ms

# Below is generated by plot.py at 2018-04-25 03:20:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 362.33 Mbit/s  
95th percentile per-packet one-way delay: 2.081 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 209.63 Mbit/s  
95th percentile per-packet one-way delay: 1.763 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 170.09 Mbit/s  
95th percentile per-packet one-way delay: 2.693 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 120.46 Mbit/s  
95th percentile per-packet one-way delay: 1.146 ms  
Loss rate: 0.23%

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

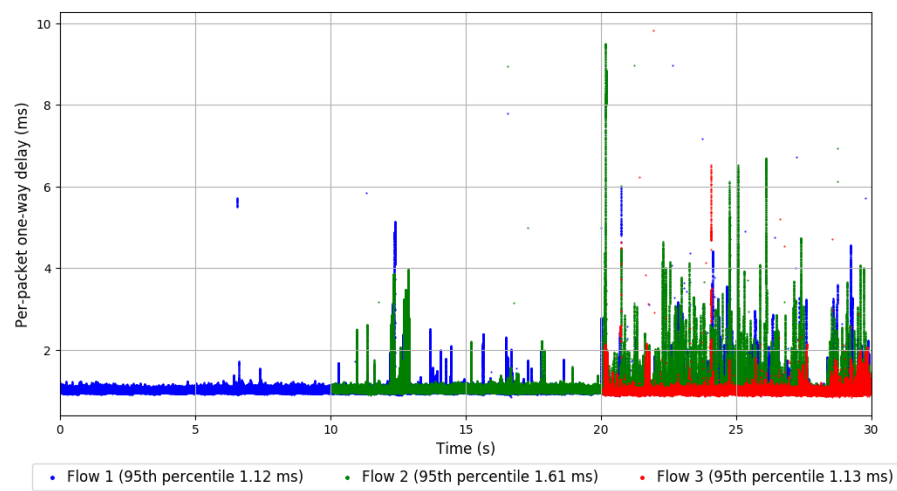
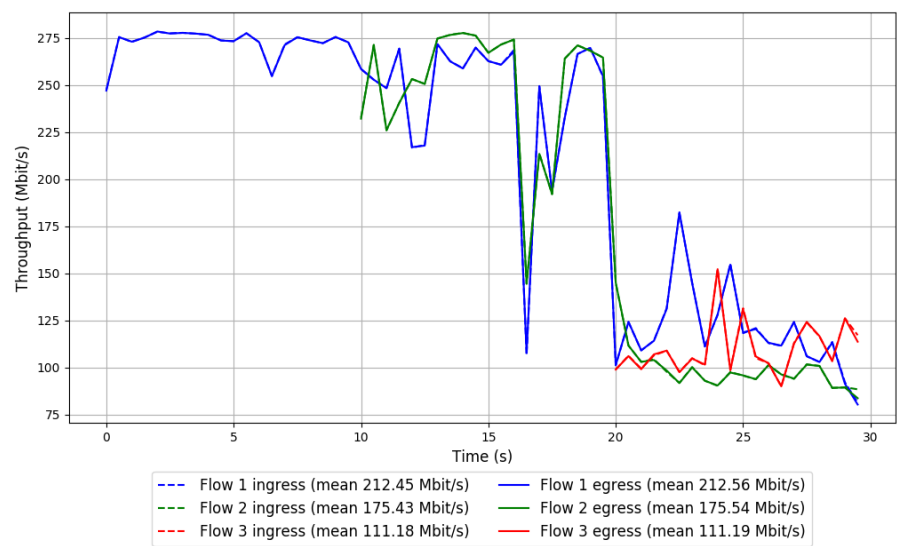


Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 21:19:42  
End at: 2018-04-24 21:20:12  
Local clock offset: 0.361 ms  
Remote clock offset: -5.295 ms

# Below is generated by plot.py at 2018-04-25 03:21:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 365.98 Mbit/s  
95th percentile per-packet one-way delay: 1.205 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 212.56 Mbit/s  
95th percentile per-packet one-way delay: 1.120 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 175.54 Mbit/s  
95th percentile per-packet one-way delay: 1.612 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 111.19 Mbit/s  
95th percentile per-packet one-way delay: 1.129 ms  
Loss rate: 0.18%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 17:17:30

End at: 2018-04-24 17:18:00

Local clock offset: 0.361 ms

Remote clock offset: -4.72 ms

# Below is generated by plot.py at 2018-04-25 03:21:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 637.22 Mbit/s

95th percentile per-packet one-way delay: 38.367 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 312.10 Mbit/s

95th percentile per-packet one-way delay: 39.035 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 366.02 Mbit/s

95th percentile per-packet one-way delay: 2.093 ms

Loss rate: 0.09%

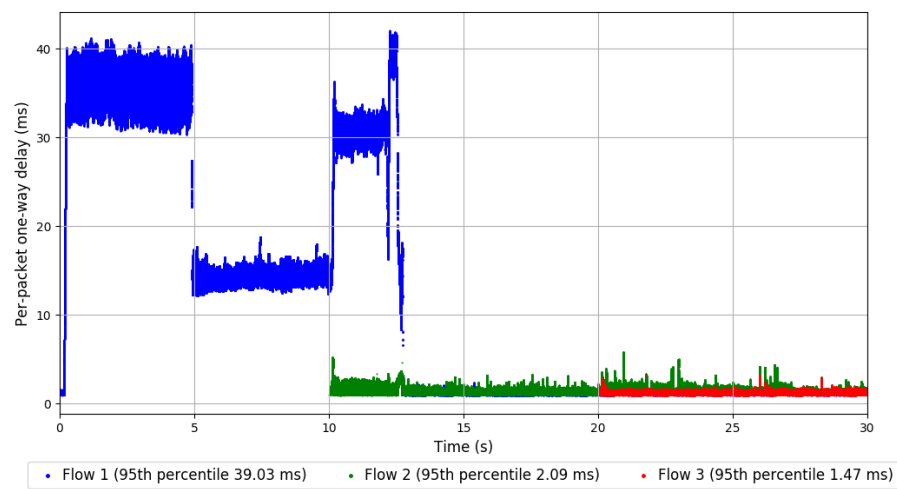
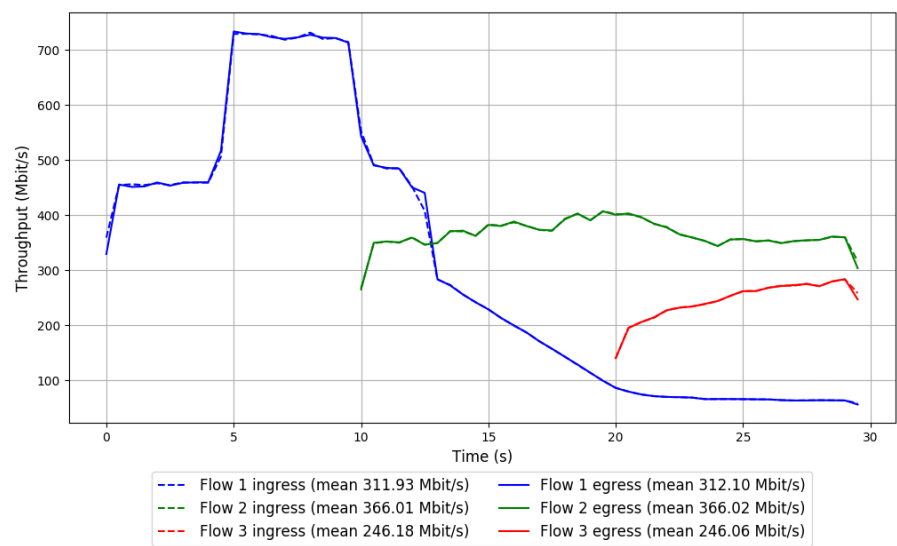
-- Flow 3:

Average throughput: 246.06 Mbit/s

95th percentile per-packet one-way delay: 1.471 ms

Loss rate: 0.24%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 17:44:08

End at: 2018-04-24 17:44:38

Local clock offset: 0.154 ms

Remote clock offset: -6.18 ms

# Below is generated by plot.py at 2018-04-25 03:21:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 645.47 Mbit/s

95th percentile per-packet one-way delay: 2.016 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 340.95 Mbit/s

95th percentile per-packet one-way delay: 1.962 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 300.39 Mbit/s

95th percentile per-packet one-way delay: 1.986 ms

Loss rate: 0.07%

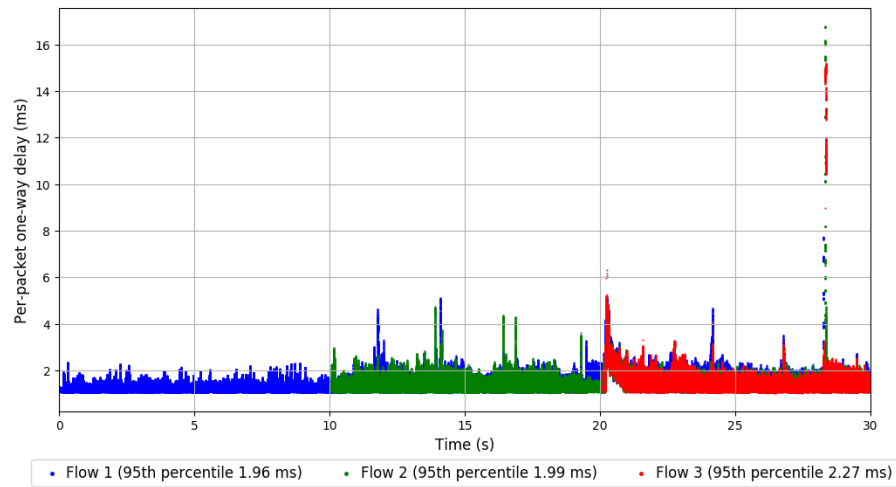
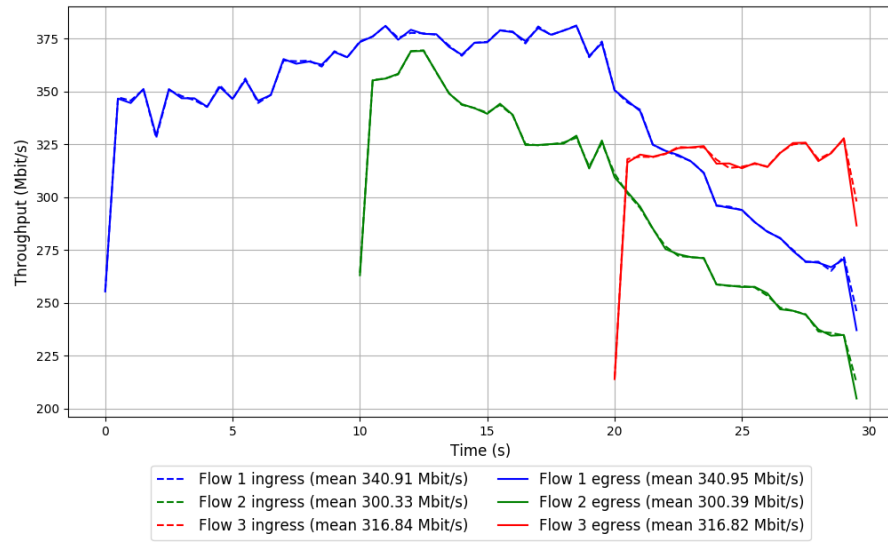
-- Flow 3:

Average throughput: 316.82 Mbit/s

95th percentile per-packet one-way delay: 2.270 ms

Loss rate: 0.20%

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



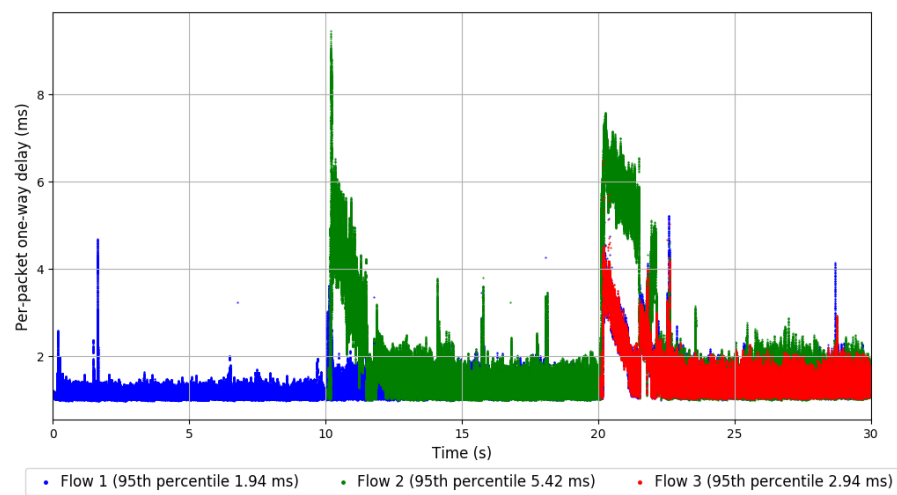
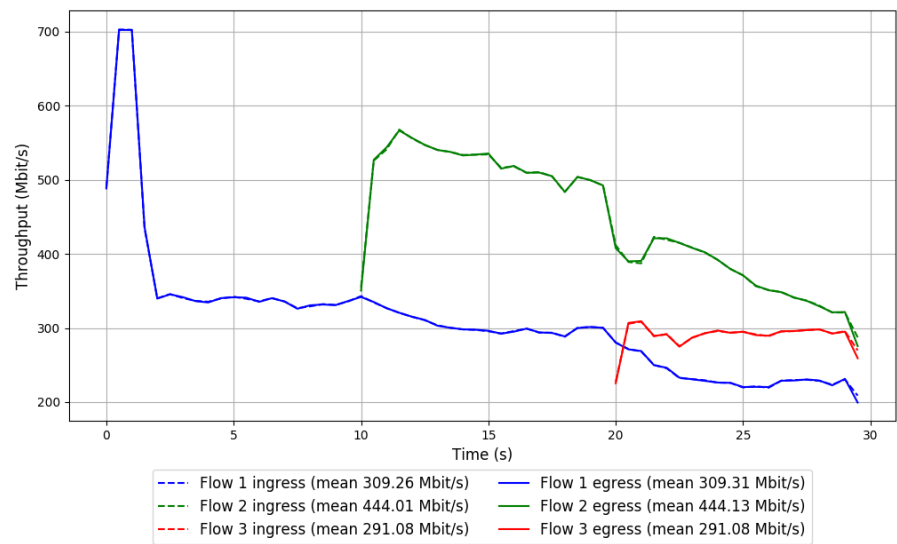


Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 18:10:43  
End at: 2018-04-24 18:11:13  
Local clock offset: -0.842 ms  
Remote clock offset: -5.254 ms

# Below is generated by plot.py at 2018-04-25 03:21:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 701.24 Mbit/s  
95th percentile per-packet one-way delay: 3.673 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 309.31 Mbit/s  
95th percentile per-packet one-way delay: 1.938 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 444.13 Mbit/s  
95th percentile per-packet one-way delay: 5.425 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 291.08 Mbit/s  
95th percentile per-packet one-way delay: 2.945 ms  
Loss rate: 0.20%

Run 3: Report of TCP Vegas — Data Link

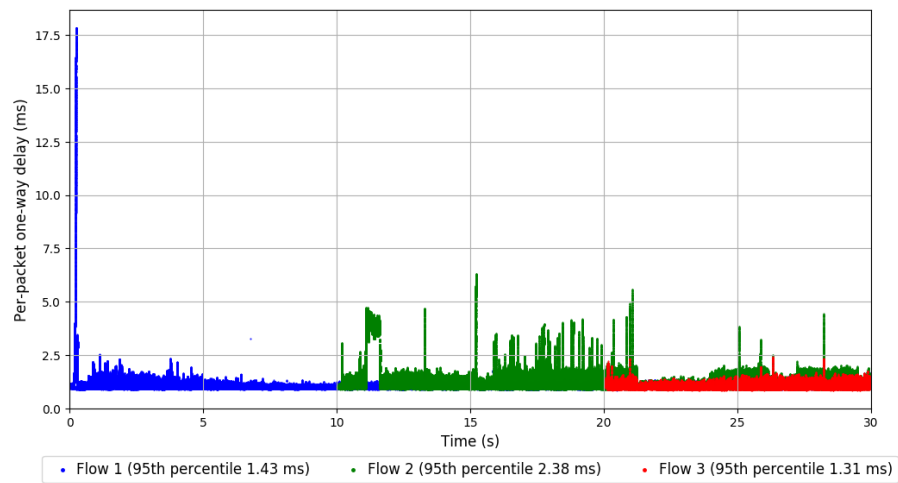
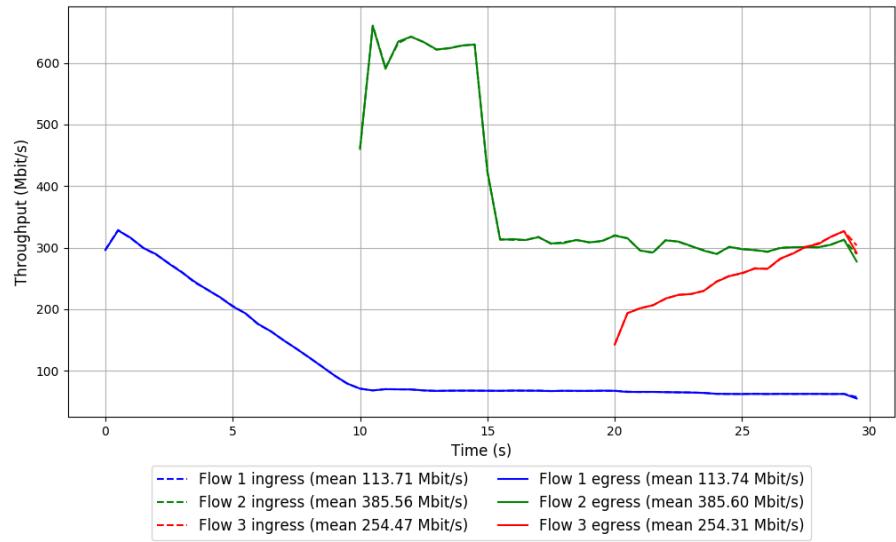


Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 18:37:10  
End at: 2018-04-24 18:37:40  
Local clock offset: -1.764 ms  
Remote clock offset: -5.801 ms

# Below is generated by plot.py at 2018-04-25 03:21:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 454.65 Mbit/s  
95th percentile per-packet one-way delay: 1.679 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 113.74 Mbit/s  
95th percentile per-packet one-way delay: 1.427 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 385.60 Mbit/s  
95th percentile per-packet one-way delay: 2.379 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 254.31 Mbit/s  
95th percentile per-packet one-way delay: 1.314 ms  
Loss rate: 0.26%

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

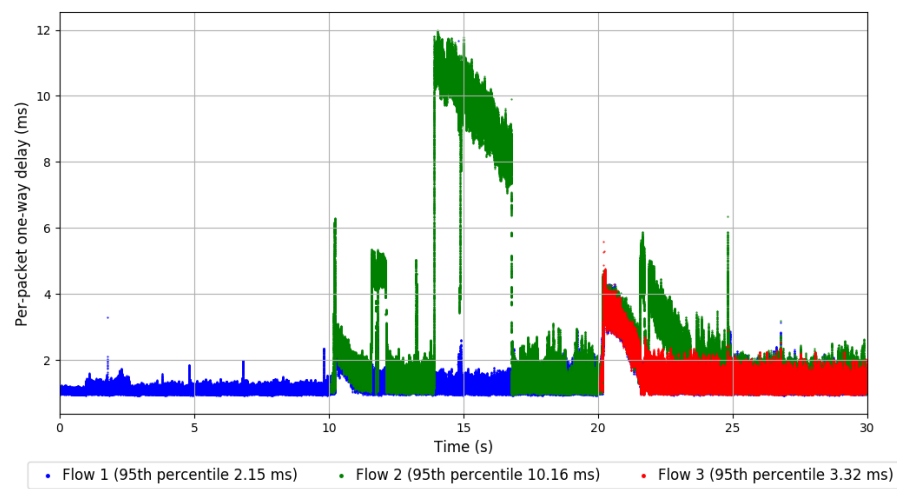
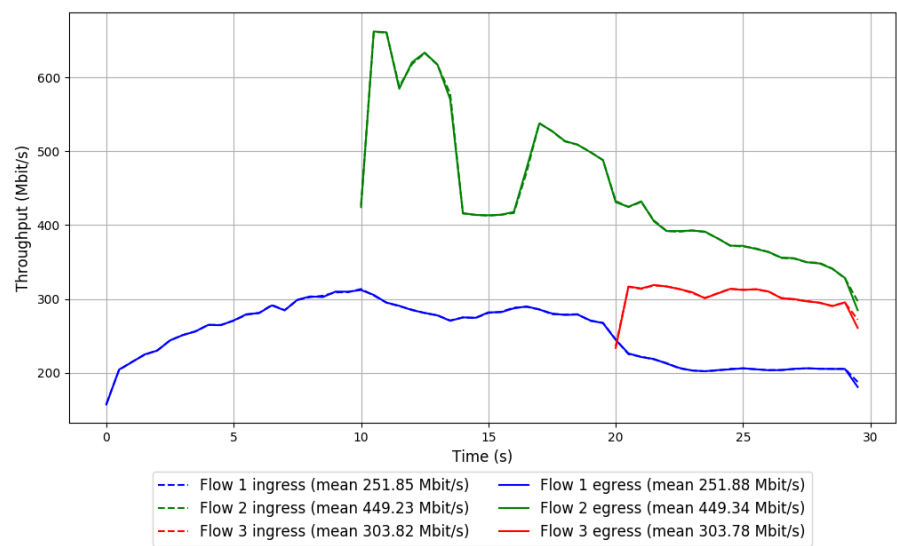


Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 19:03:46  
End at: 2018-04-24 19:04:16  
Local clock offset: 0.385 ms  
Remote clock offset: -6.458 ms

# Below is generated by plot.py at 2018-04-25 03:21:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 651.05 Mbit/s  
95th percentile per-packet one-way delay: 8.665 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 251.88 Mbit/s  
95th percentile per-packet one-way delay: 2.150 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 449.34 Mbit/s  
95th percentile per-packet one-way delay: 10.159 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 303.78 Mbit/s  
95th percentile per-packet one-way delay: 3.321 ms  
Loss rate: 0.20%

Run 5: Report of TCP Vegas — Data Link

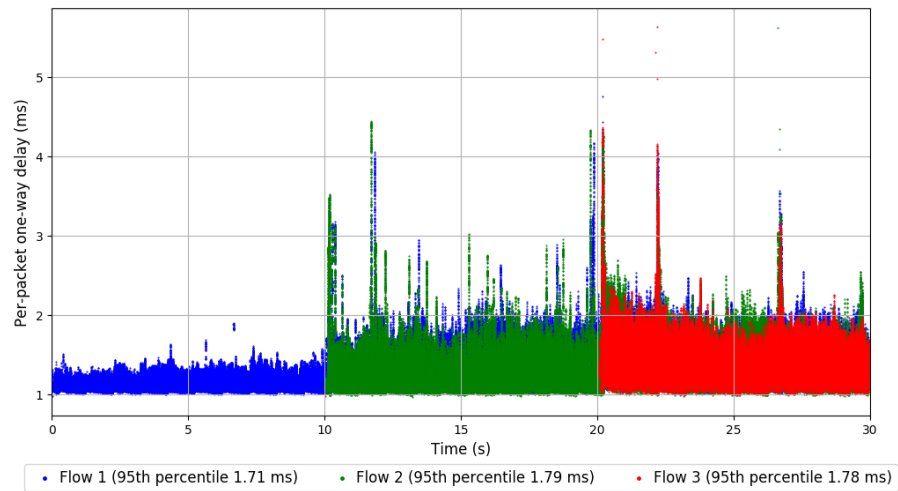
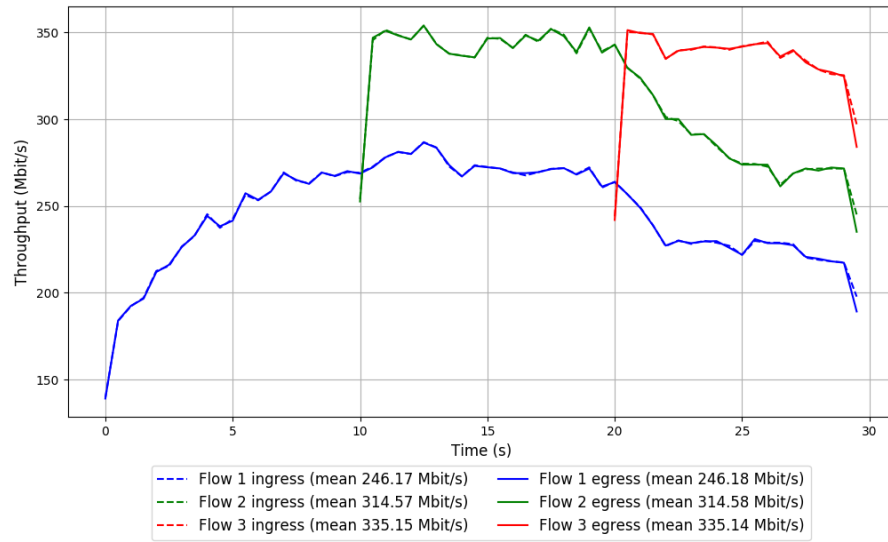


Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 19:30:27  
End at: 2018-04-24 19:30:57  
Local clock offset: 0.76 ms  
Remote clock offset: -6.094 ms

# Below is generated by plot.py at 2018-04-25 03:23:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 566.40 Mbit/s  
95th percentile per-packet one-way delay: 1.754 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 246.18 Mbit/s  
95th percentile per-packet one-way delay: 1.707 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 314.58 Mbit/s  
95th percentile per-packet one-way delay: 1.793 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 335.14 Mbit/s  
95th percentile per-packet one-way delay: 1.781 ms  
Loss rate: 0.20%

# Run 6: Report of TCP Vegas — Data Link



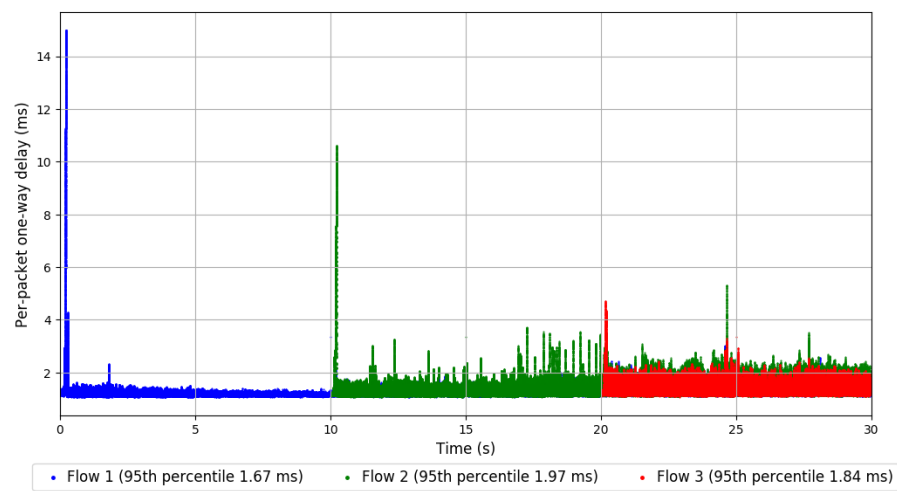
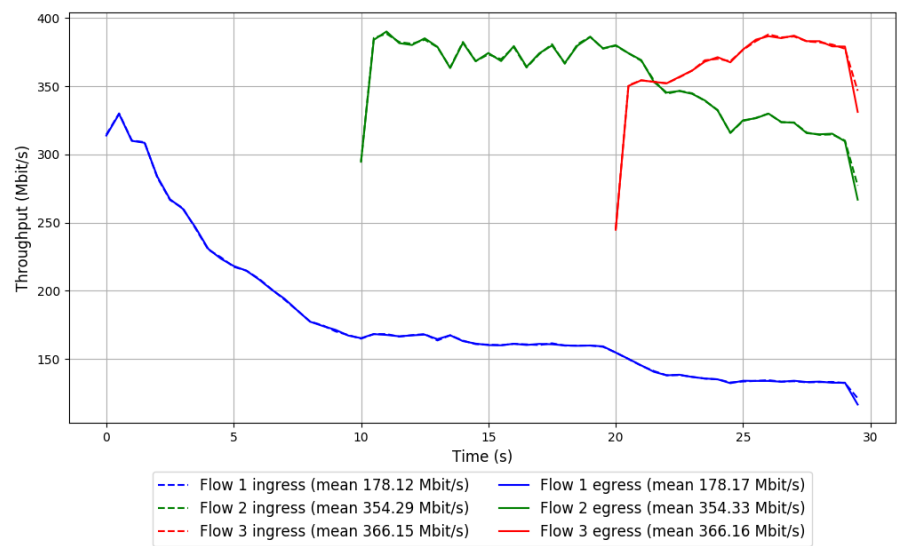


Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 19:57:05  
End at: 2018-04-24 19:57:35  
Local clock offset: 0.817 ms  
Remote clock offset: -5.378 ms

# Below is generated by plot.py at 2018-04-25 03:26:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 535.05 Mbit/s  
95th percentile per-packet one-way delay: 1.867 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 178.17 Mbit/s  
95th percentile per-packet one-way delay: 1.668 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 354.33 Mbit/s  
95th percentile per-packet one-way delay: 1.966 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 366.16 Mbit/s  
95th percentile per-packet one-way delay: 1.838 ms  
Loss rate: 0.21%

Run 7: Report of TCP Vegas — Data Link

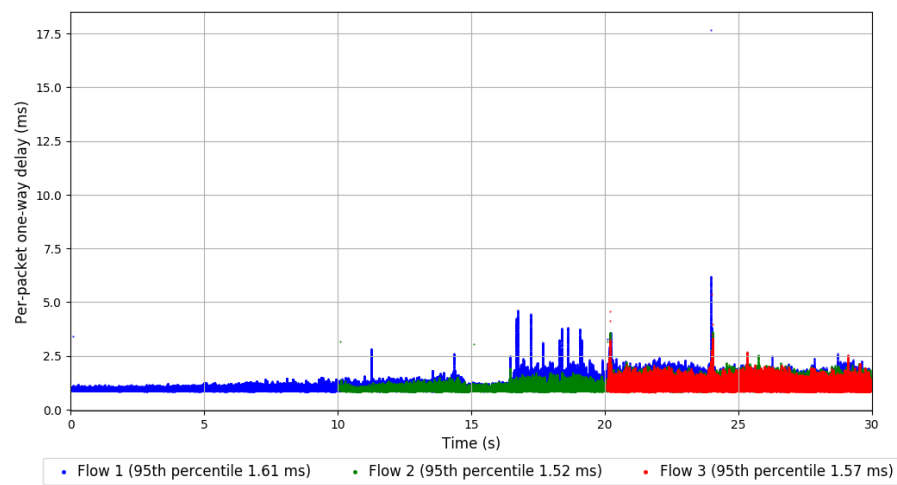
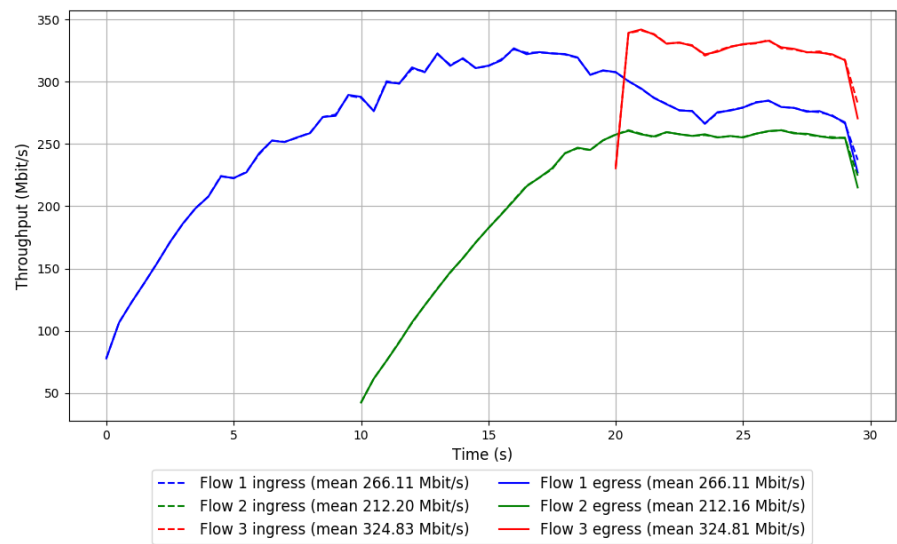


Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 20:23:36  
End at: 2018-04-24 20:24:06  
Local clock offset: 0.327 ms  
Remote clock offset: -5.202 ms

# Below is generated by plot.py at 2018-04-25 03:28:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 514.54 Mbit/s  
95th percentile per-packet one-way delay: 1.578 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 266.11 Mbit/s  
95th percentile per-packet one-way delay: 1.614 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 212.16 Mbit/s  
95th percentile per-packet one-way delay: 1.519 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 324.81 Mbit/s  
95th percentile per-packet one-way delay: 1.567 ms  
Loss rate: 0.20%

Run 8: Report of TCP Vegas — Data Link

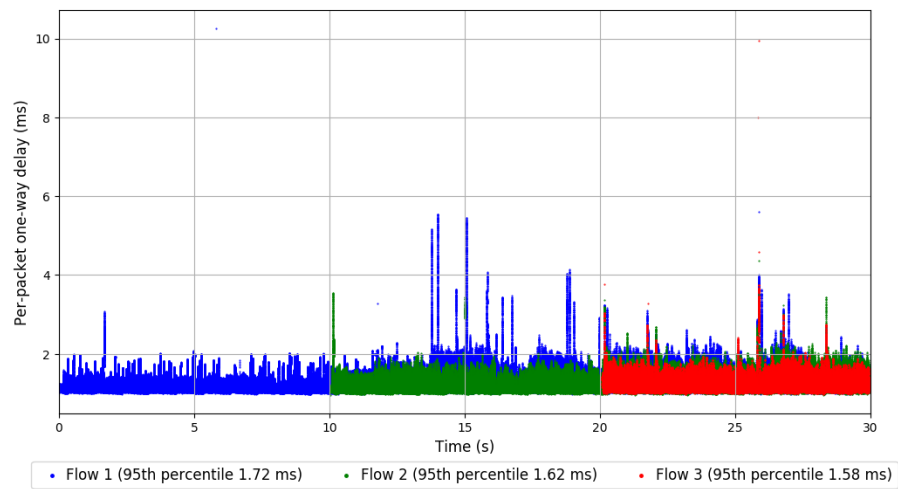
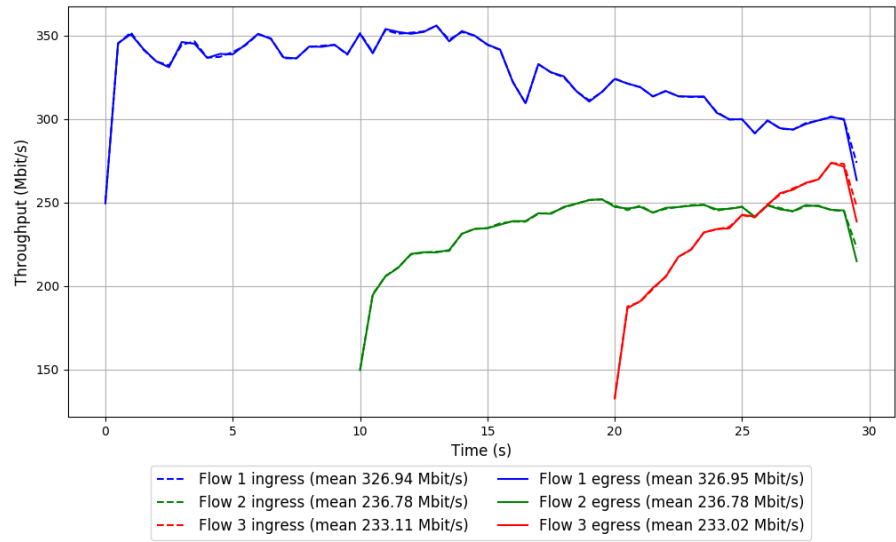


Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 20:50:03  
End at: 2018-04-24 20:50:33  
Local clock offset: 0.54 ms  
Remote clock offset: -5.271 ms

# Below is generated by plot.py at 2018-04-25 03:29:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 561.58 Mbit/s  
95th percentile per-packet one-way delay: 1.671 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 326.95 Mbit/s  
95th percentile per-packet one-way delay: 1.715 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 236.78 Mbit/s  
95th percentile per-packet one-way delay: 1.617 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 233.02 Mbit/s  
95th percentile per-packet one-way delay: 1.576 ms  
Loss rate: 0.24%

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

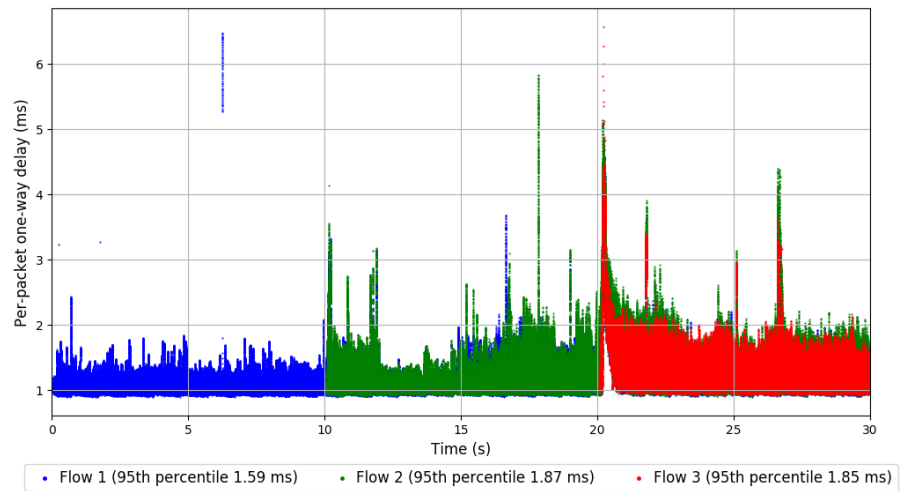
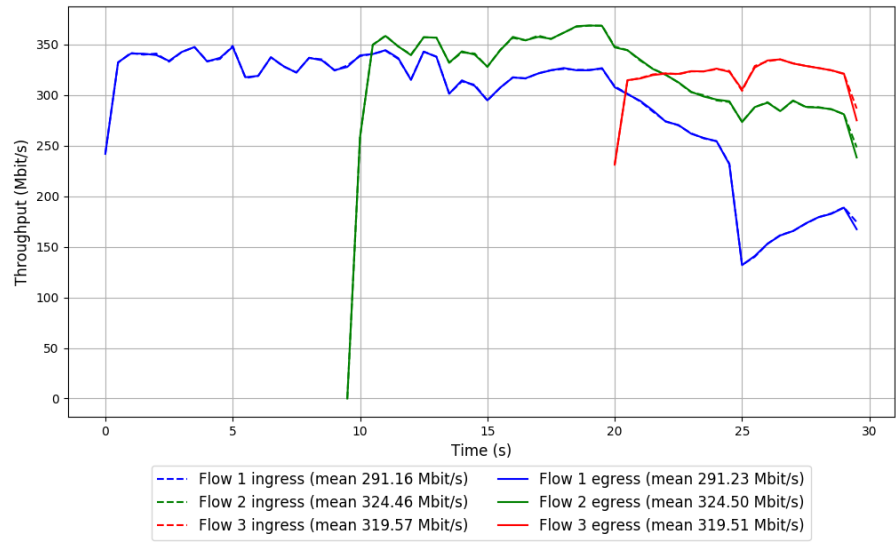


Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 21:16:42  
End at: 2018-04-24 21:17:12  
Local clock offset: 0.374 ms  
Remote clock offset: -5.295 ms

# Below is generated by plot.py at 2018-04-25 03:30:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 613.10 Mbit/s  
95th percentile per-packet one-way delay: 1.753 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 291.23 Mbit/s  
95th percentile per-packet one-way delay: 1.586 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 324.50 Mbit/s  
95th percentile per-packet one-way delay: 1.868 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 319.51 Mbit/s  
95th percentile per-packet one-way delay: 1.848 ms  
Loss rate: 0.19%

# Run 10: Report of TCP Vegas — Data Link



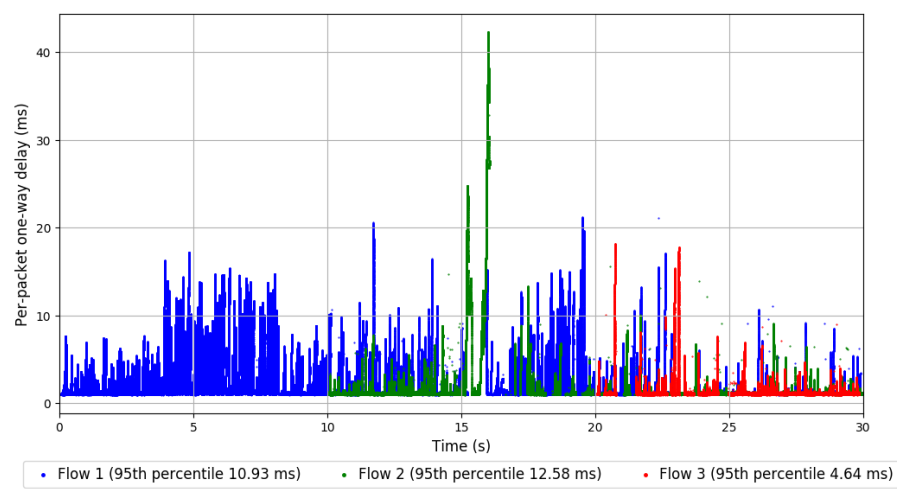
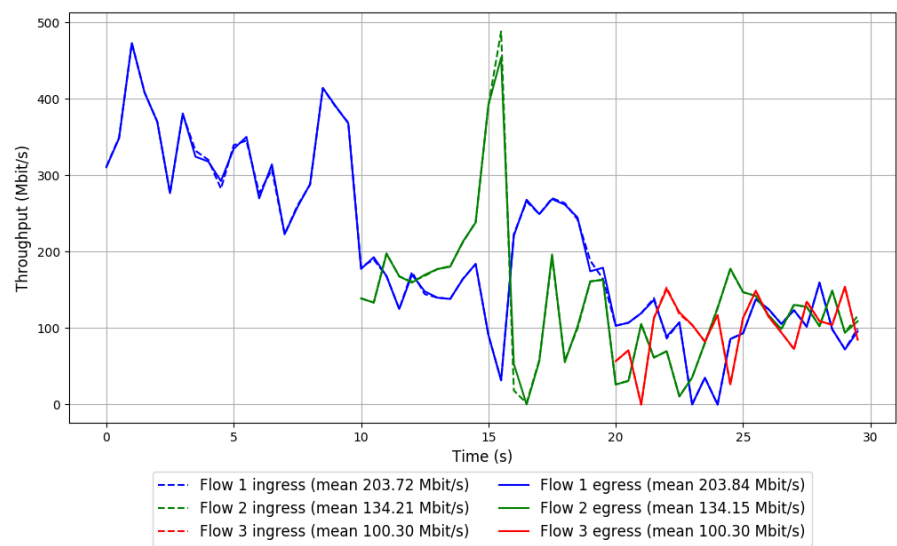


Run 1: Statistics of Verus

Start at: 2018-04-24 17:07:58  
End at: 2018-04-24 17:08:28  
Local clock offset: 0.38 ms  
Remote clock offset: -4.942 ms

# Below is generated by plot.py at 2018-04-25 03:30:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 326.05 Mbit/s  
95th percentile per-packet one-way delay: 11.099 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 203.84 Mbit/s  
95th percentile per-packet one-way delay: 10.934 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 134.15 Mbit/s  
95th percentile per-packet one-way delay: 12.583 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 100.30 Mbit/s  
95th percentile per-packet one-way delay: 4.638 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

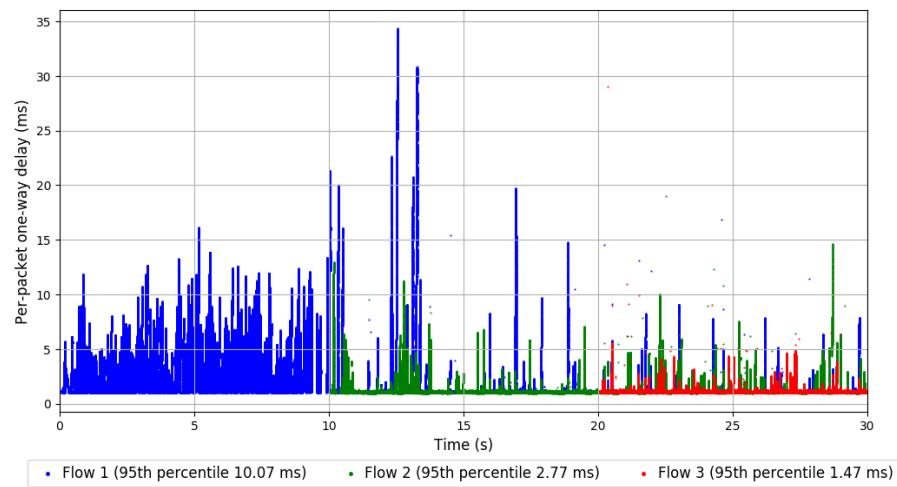
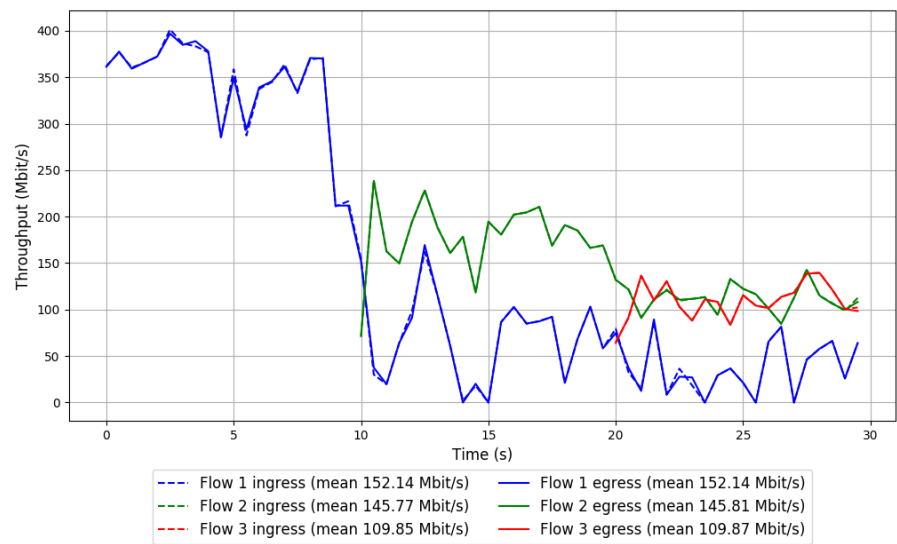


Run 2: Statistics of Verus

Start at: 2018-04-24 17:34:38  
End at: 2018-04-24 17:35:08  
Local clock offset: 0.467 ms  
Remote clock offset: -5.917 ms

# Below is generated by plot.py at 2018-04-25 03:30:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 284.81 Mbit/s  
95th percentile per-packet one-way delay: 8.175 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 152.14 Mbit/s  
95th percentile per-packet one-way delay: 10.070 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 145.81 Mbit/s  
95th percentile per-packet one-way delay: 2.775 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 109.87 Mbit/s  
95th percentile per-packet one-way delay: 1.467 ms  
Loss rate: 0.19%

Run 2: Report of Verus — Data Link

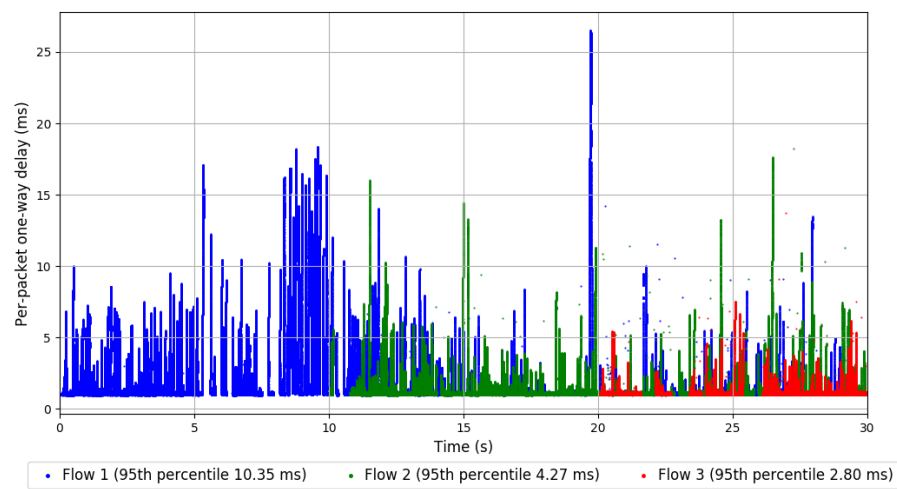
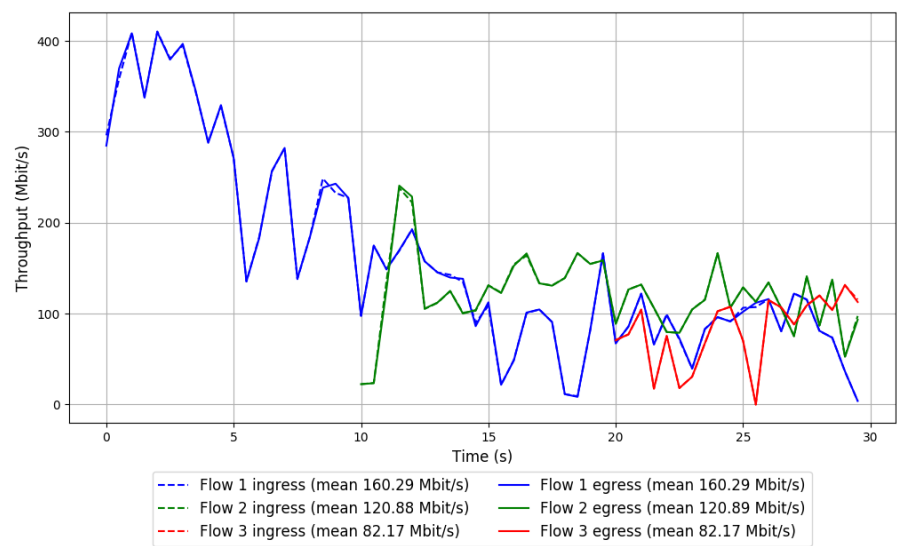


Run 3: Statistics of Verus

Start at: 2018-04-24 18:01:16  
End at: 2018-04-24 18:01:46  
Local clock offset: -0.48 ms  
Remote clock offset: -5.572 ms

# Below is generated by plot.py at 2018-04-25 03:30:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 267.58 Mbit/s  
95th percentile per-packet one-way delay: 7.786 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 160.29 Mbit/s  
95th percentile per-packet one-way delay: 10.354 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 120.89 Mbit/s  
95th percentile per-packet one-way delay: 4.266 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 82.17 Mbit/s  
95th percentile per-packet one-way delay: 2.800 ms  
Loss rate: 0.19%

Run 3: Report of Verus — Data Link

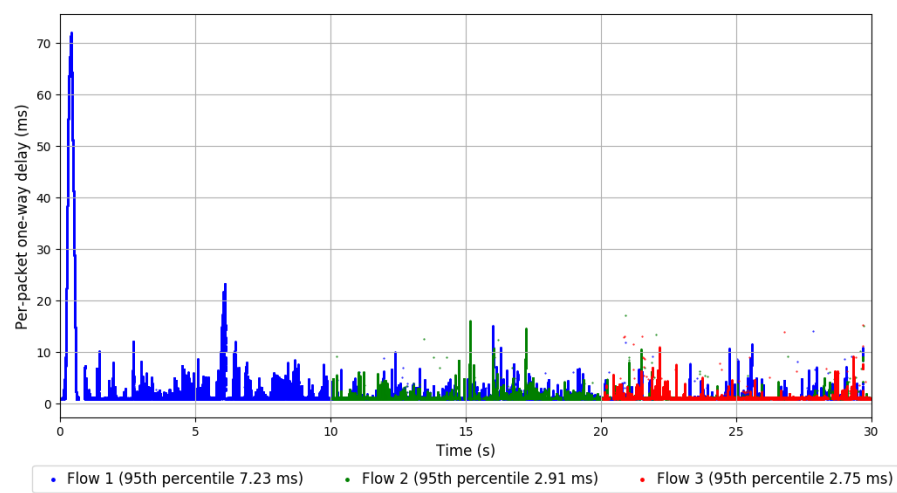
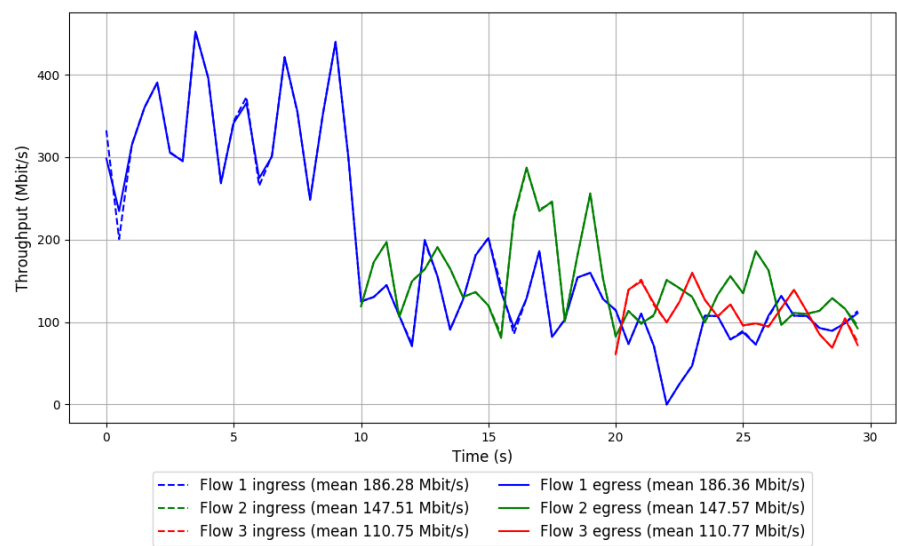


Run 4: Statistics of Verus

Start at: 2018-04-24 18:27:50  
End at: 2018-04-24 18:28:20  
Local clock offset: -1.488 ms  
Remote clock offset: -4.876 ms

# Below is generated by plot.py at 2018-04-25 03:30:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 321.34 Mbit/s  
95th percentile per-packet one-way delay: 5.171 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 186.36 Mbit/s  
95th percentile per-packet one-way delay: 7.231 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 147.57 Mbit/s  
95th percentile per-packet one-way delay: 2.907 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 110.77 Mbit/s  
95th percentile per-packet one-way delay: 2.754 ms  
Loss rate: 0.19%

Run 4: Report of Verus — Data Link



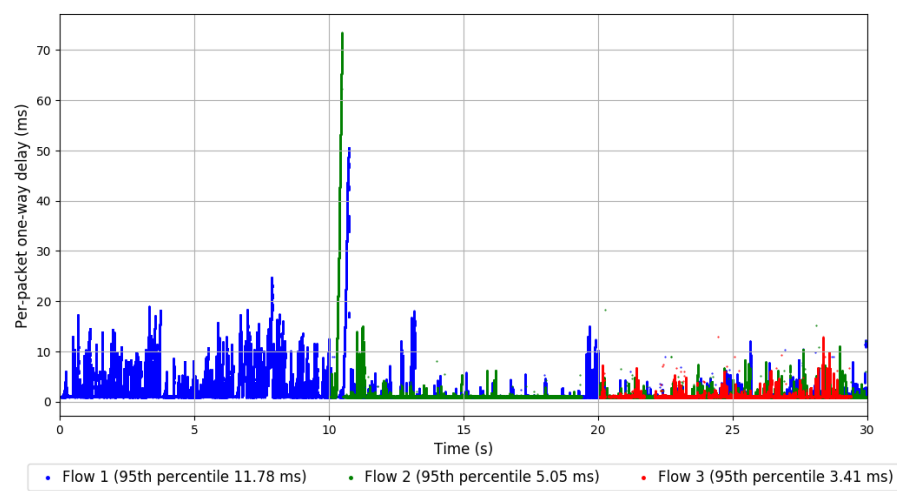
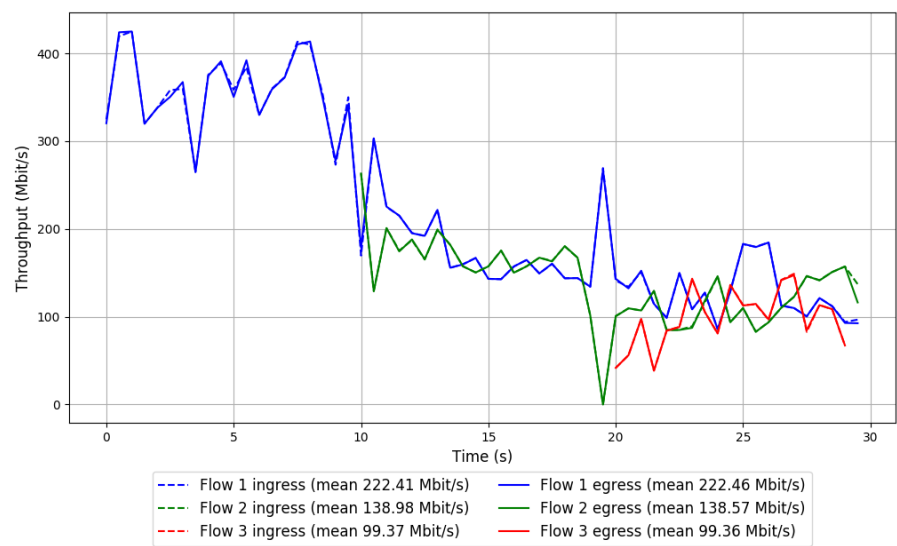


Run 5: Statistics of Verus

Start at: 2018-04-24 18:54:12  
End at: 2018-04-24 18:54:42  
Local clock offset: -0.158 ms  
Remote clock offset: -6.336 ms

# Below is generated by plot.py at 2018-04-25 03:31:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 345.74 Mbit/s  
95th percentile per-packet one-way delay: 10.647 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 222.46 Mbit/s  
95th percentile per-packet one-way delay: 11.775 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 138.57 Mbit/s  
95th percentile per-packet one-way delay: 5.055 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 99.36 Mbit/s  
95th percentile per-packet one-way delay: 3.410 ms  
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

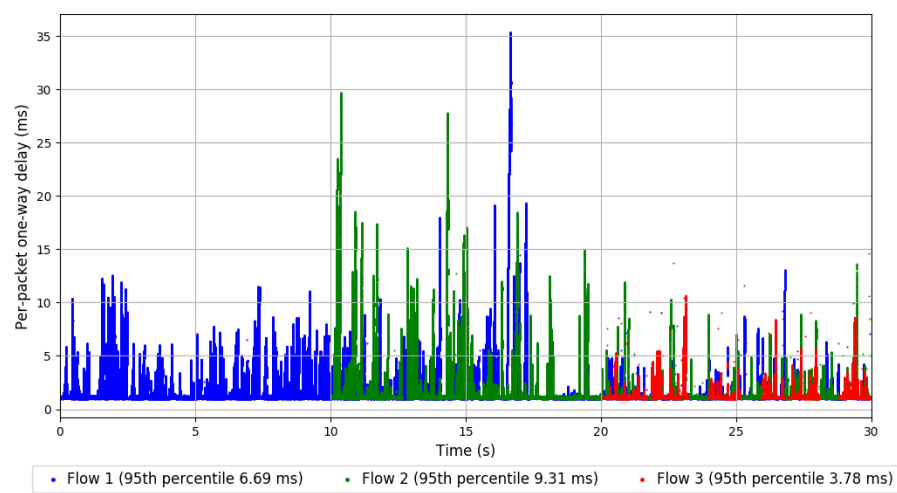
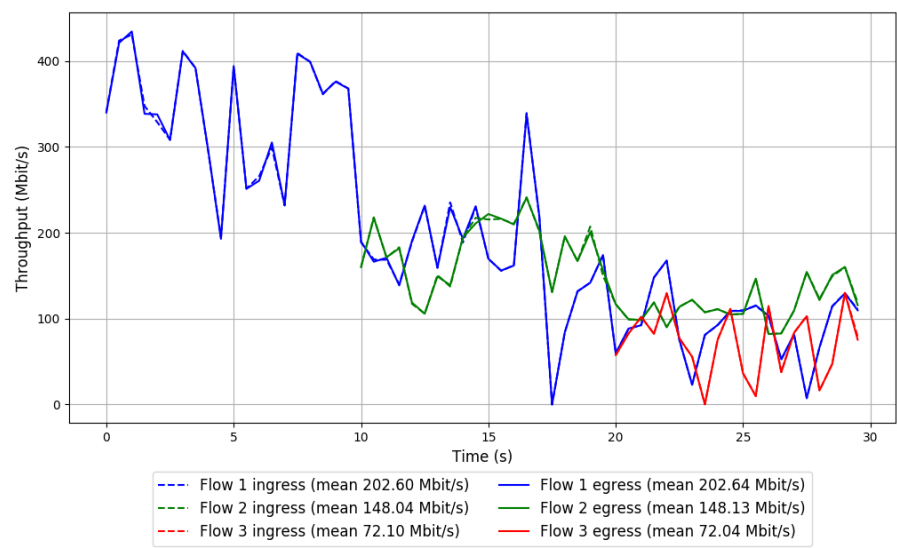


Run 6: Statistics of Verus

Start at: 2018-04-24 19:20:56  
End at: 2018-04-24 19:21:26  
Local clock offset: 0.802 ms  
Remote clock offset: -6.048 ms

# Below is generated by plot.py at 2018-04-25 03:31:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 325.07 Mbit/s  
95th percentile per-packet one-way delay: 7.264 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 202.64 Mbit/s  
95th percentile per-packet one-way delay: 6.691 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 148.13 Mbit/s  
95th percentile per-packet one-way delay: 9.312 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 72.04 Mbit/s  
95th percentile per-packet one-way delay: 3.777 ms  
Loss rate: 0.28%

Run 6: Report of Verus — Data Link

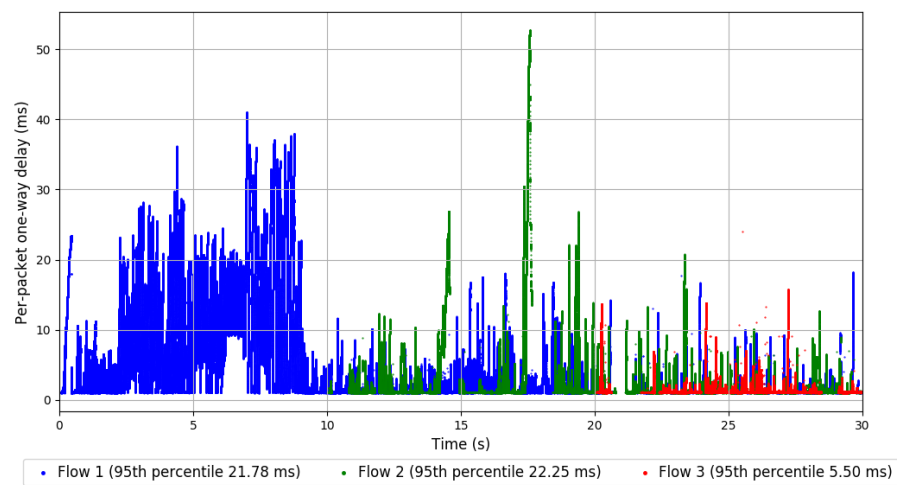
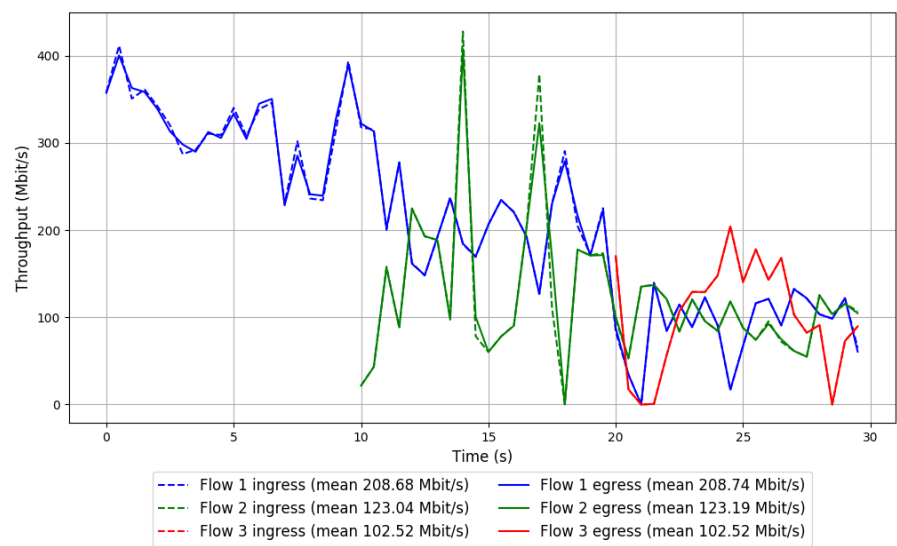


Run 7: Statistics of Verus

Start at: 2018-04-24 19:47:35  
End at: 2018-04-24 19:48:05  
Local clock offset: 1.081 ms  
Remote clock offset: -5.575 ms

# Below is generated by plot.py at 2018-04-25 03:31:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 324.59 Mbit/s  
95th percentile per-packet one-way delay: 21.067 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 208.74 Mbit/s  
95th percentile per-packet one-way delay: 21.780 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 123.19 Mbit/s  
95th percentile per-packet one-way delay: 22.249 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 102.52 Mbit/s  
95th percentile per-packet one-way delay: 5.495 ms  
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

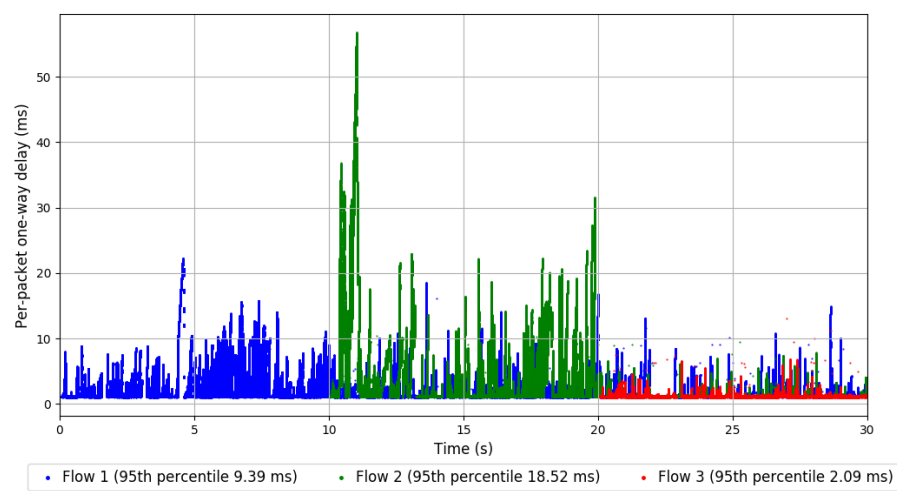
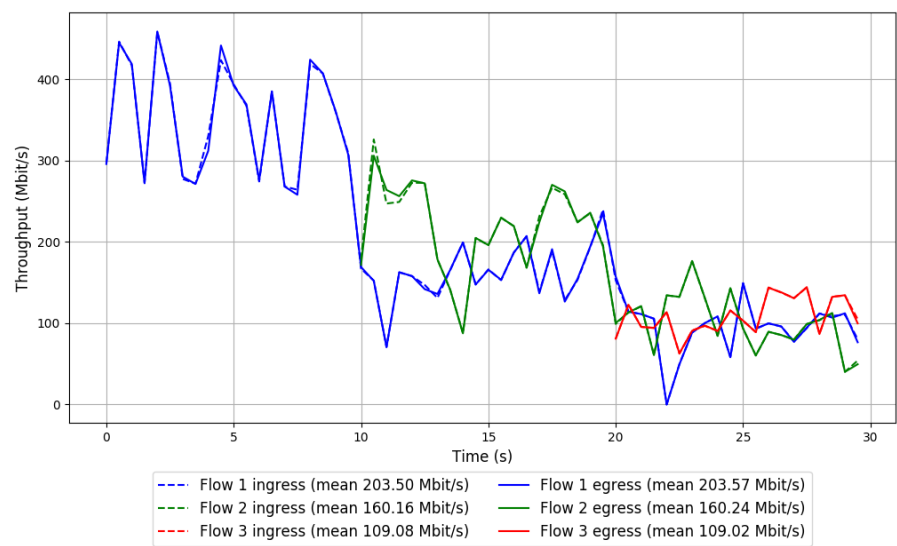


Run 8: Statistics of Verus

Start at: 2018-04-24 20:14:06  
End at: 2018-04-24 20:14:36  
Local clock offset: 0.464 ms  
Remote clock offset: -5.165 ms

# Below is generated by plot.py at 2018-04-25 03:31:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 346.37 Mbit/s  
95th percentile per-packet one-way delay: 11.660 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 203.57 Mbit/s  
95th percentile per-packet one-way delay: 9.387 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 160.24 Mbit/s  
95th percentile per-packet one-way delay: 18.522 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 109.02 Mbit/s  
95th percentile per-packet one-way delay: 2.091 ms  
Loss rate: 0.24%

Run 8: Report of Verus — Data Link



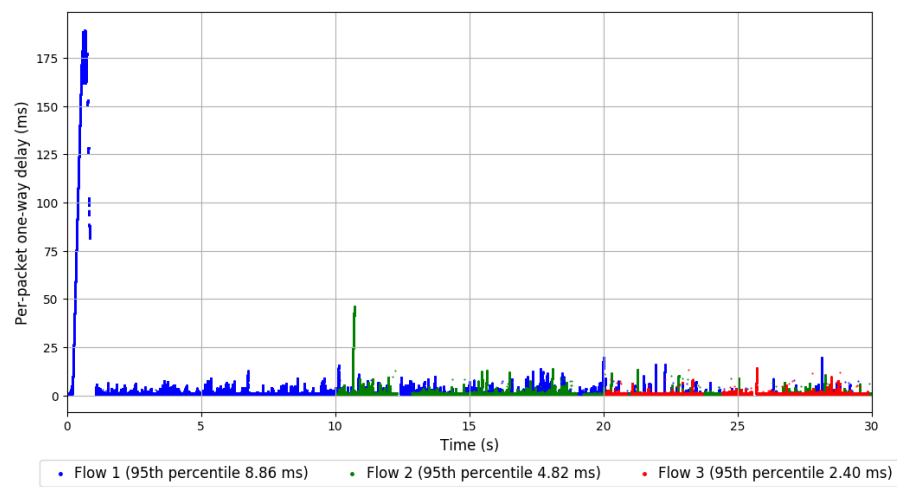
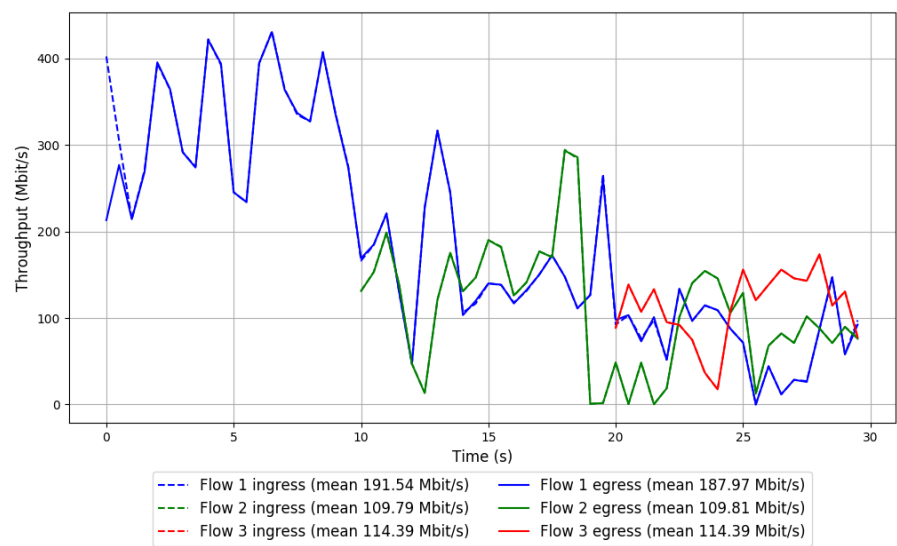


Run 9: Statistics of Verus

Start at: 2018-04-24 20:40:37  
End at: 2018-04-24 20:41:07  
Local clock offset: 0.408 ms  
Remote clock offset: -5.2 ms

# Below is generated by plot.py at 2018-04-25 03:32:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 298.58 Mbit/s  
95th percentile per-packet one-way delay: 6.613 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 187.97 Mbit/s  
95th percentile per-packet one-way delay: 8.860 ms  
Loss rate: 1.94%  
-- Flow 2:  
Average throughput: 109.81 Mbit/s  
95th percentile per-packet one-way delay: 4.823 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 114.39 Mbit/s  
95th percentile per-packet one-way delay: 2.399 ms  
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

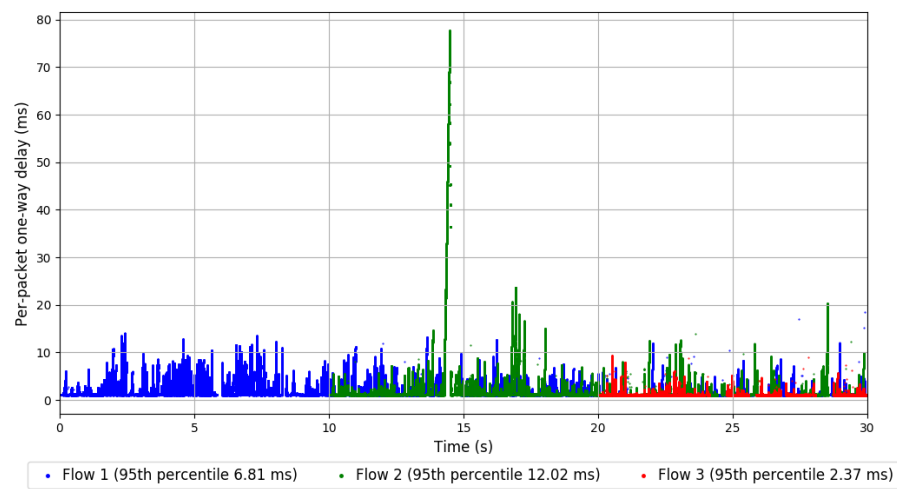
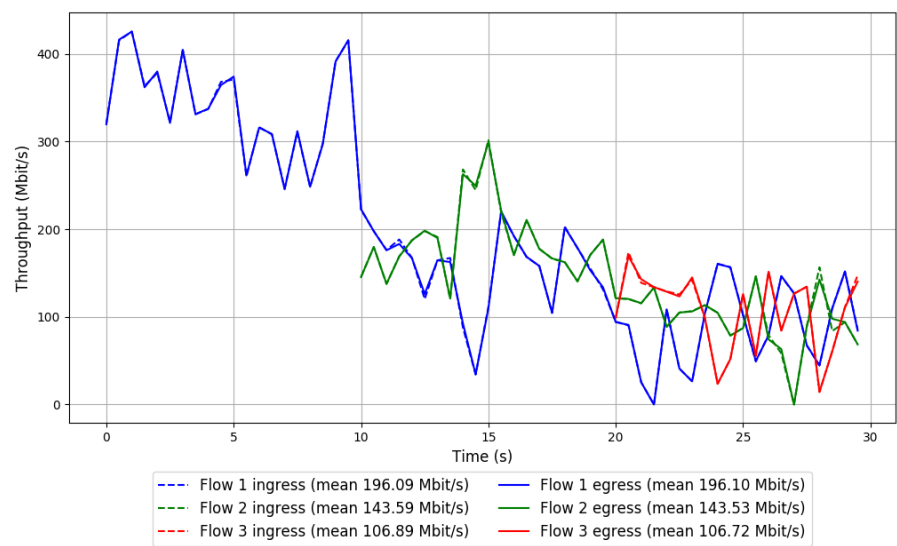


Run 10: Statistics of Verus

Start at: 2018-04-24 21:07:11  
End at: 2018-04-24 21:07:41  
Local clock offset: 0.387 ms  
Remote clock offset: -5.389 ms

# Below is generated by plot.py at 2018-04-25 03:33:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 326.63 Mbit/s  
95th percentile per-packet one-way delay: 6.995 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 196.10 Mbit/s  
95th percentile per-packet one-way delay: 6.813 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 143.53 Mbit/s  
95th percentile per-packet one-way delay: 12.023 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 106.72 Mbit/s  
95th percentile per-packet one-way delay: 2.365 ms  
Loss rate: 0.35%

Run 10: Report of Verus — Data Link

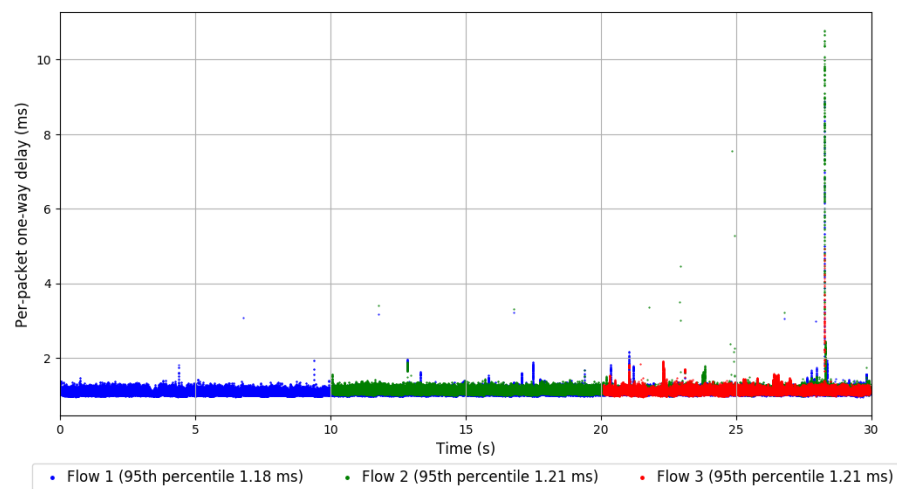
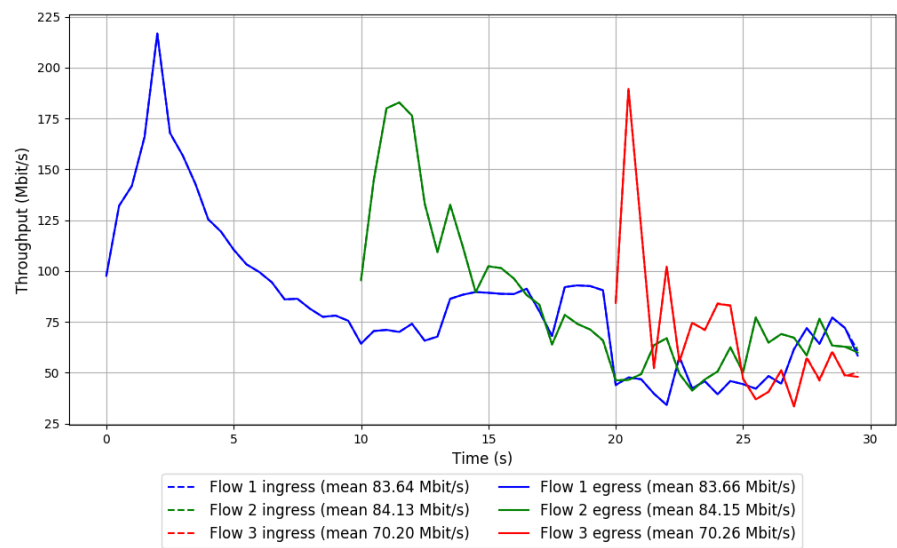


Run 1: Statistics of Copa

Start at: 2018-04-24 17:16:00  
End at: 2018-04-24 17:16:30  
Local clock offset: 0.423 ms  
Remote clock offset: -4.768 ms

# Below is generated by plot.py at 2018-04-25 03:33:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 162.82 Mbit/s  
95th percentile per-packet one-way delay: 1.196 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 83.66 Mbit/s  
95th percentile per-packet one-way delay: 1.176 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 84.15 Mbit/s  
95th percentile per-packet one-way delay: 1.209 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 70.26 Mbit/s  
95th percentile per-packet one-way delay: 1.212 ms  
Loss rate: 0.17%

Run 1: Report of Copa — Data Link

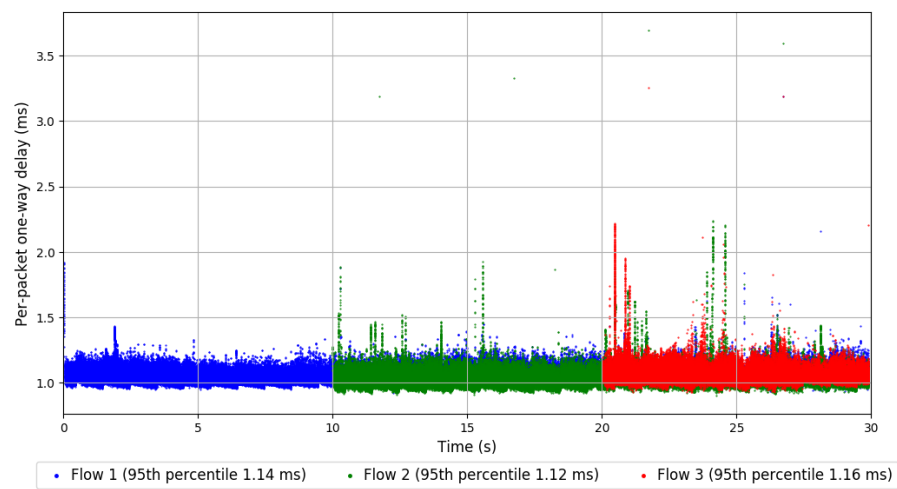
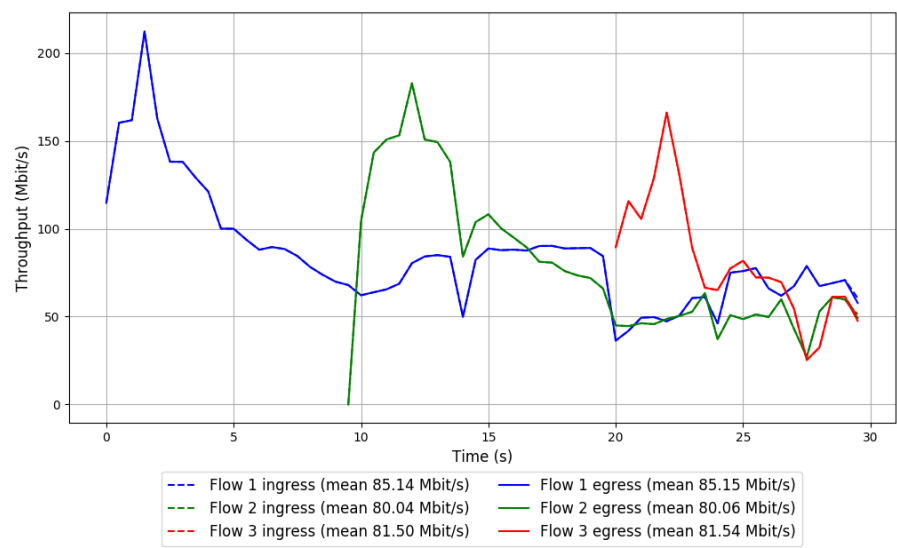


Run 2: Statistics of Copa

Start at: 2018-04-24 17:42:38  
End at: 2018-04-24 17:43:08  
Local clock offset: 0.201 ms  
Remote clock offset: -6.078 ms

# Below is generated by plot.py at 2018-04-25 03:34:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 165.44 Mbit/s  
95th percentile per-packet one-way delay: 1.139 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 85.15 Mbit/s  
95th percentile per-packet one-way delay: 1.138 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 80.06 Mbit/s  
95th percentile per-packet one-way delay: 1.123 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 81.54 Mbit/s  
95th percentile per-packet one-way delay: 1.159 ms  
Loss rate: 0.14%

Run 2: Report of Copa — Data Link



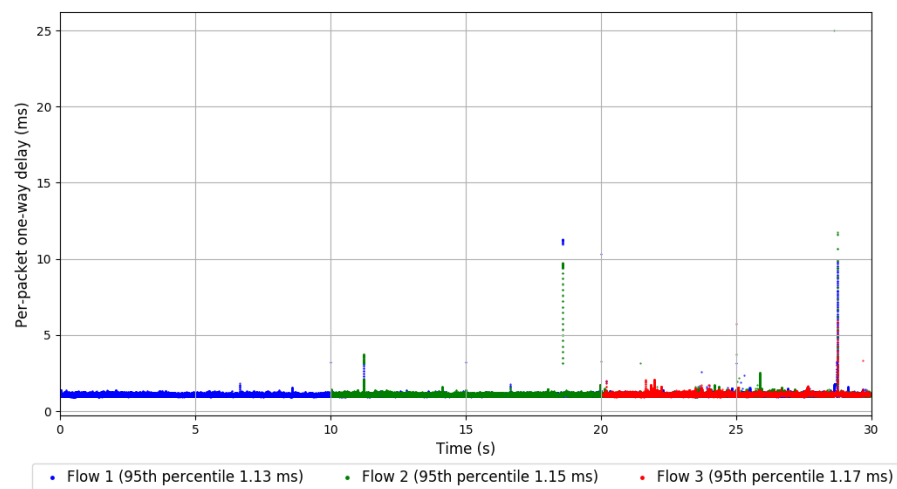
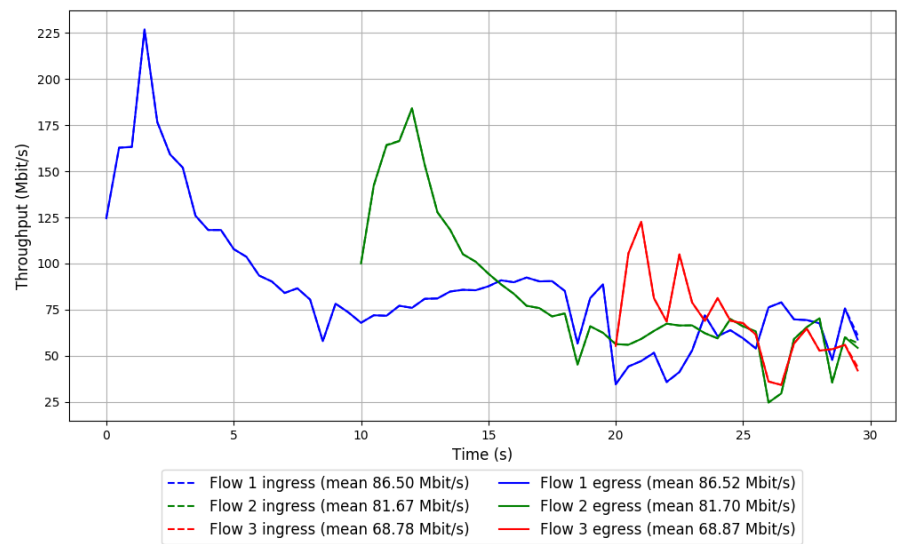


Run 3: Statistics of Copa

Start at: 2018-04-24 18:09:13  
End at: 2018-04-24 18:09:43  
Local clock offset: -0.86 ms  
Remote clock offset: -5.345 ms

# Below is generated by plot.py at 2018-04-25 03:35:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 163.62 Mbit/s  
95th percentile per-packet one-way delay: 1.142 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 86.52 Mbit/s  
95th percentile per-packet one-way delay: 1.131 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 81.70 Mbit/s  
95th percentile per-packet one-way delay: 1.146 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 68.87 Mbit/s  
95th percentile per-packet one-way delay: 1.171 ms  
Loss rate: 0.15%

Run 3: Report of Copa — Data Link

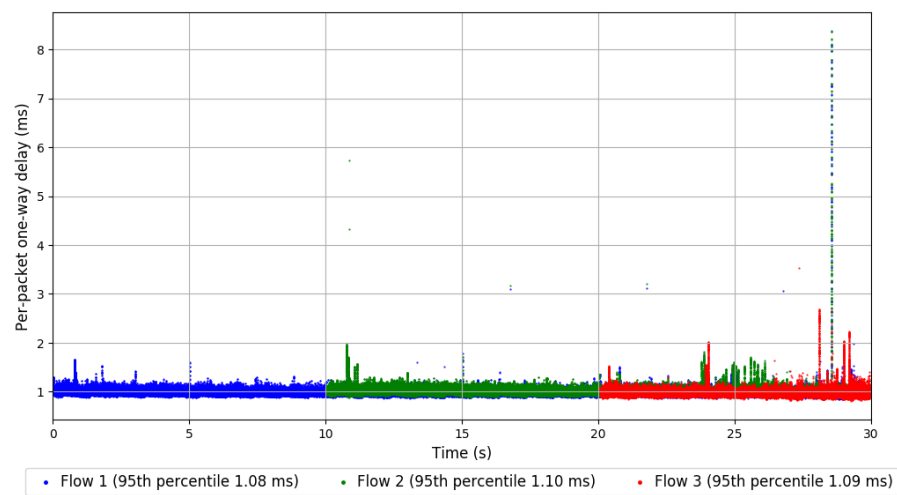
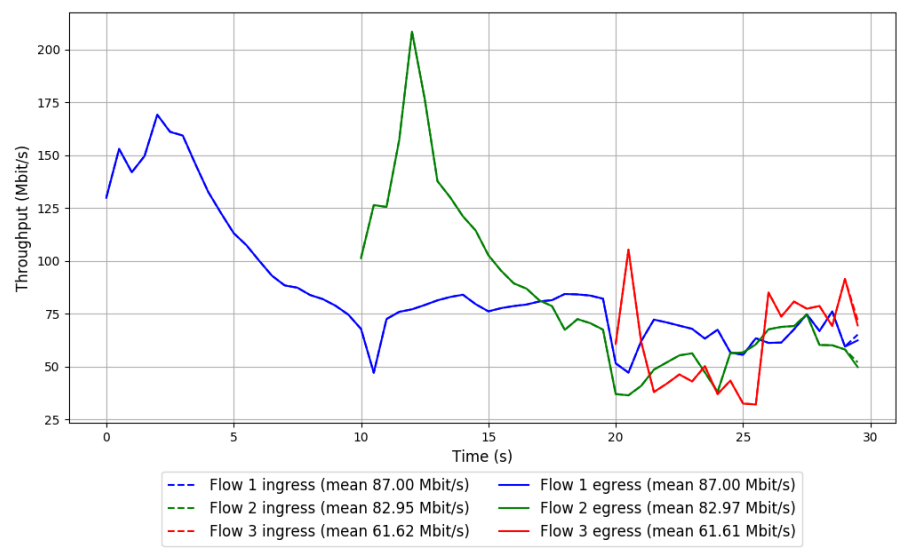


Run 4: Statistics of Copa

Start at: 2018-04-24 18:35:41  
End at: 2018-04-24 18:36:11  
Local clock offset: -1.747 ms  
Remote clock offset: -5.771 ms

# Below is generated by plot.py at 2018-04-25 03:35:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 162.59 Mbit/s  
95th percentile per-packet one-way delay: 1.089 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 87.00 Mbit/s  
95th percentile per-packet one-way delay: 1.076 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 82.97 Mbit/s  
95th percentile per-packet one-way delay: 1.104 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 61.61 Mbit/s  
95th percentile per-packet one-way delay: 1.087 ms  
Loss rate: 0.21%

Run 4: Report of Copa — Data Link

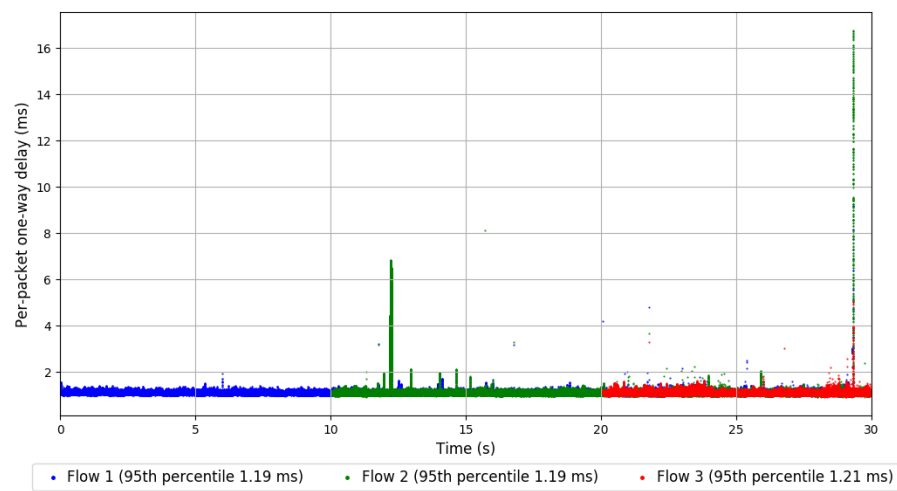
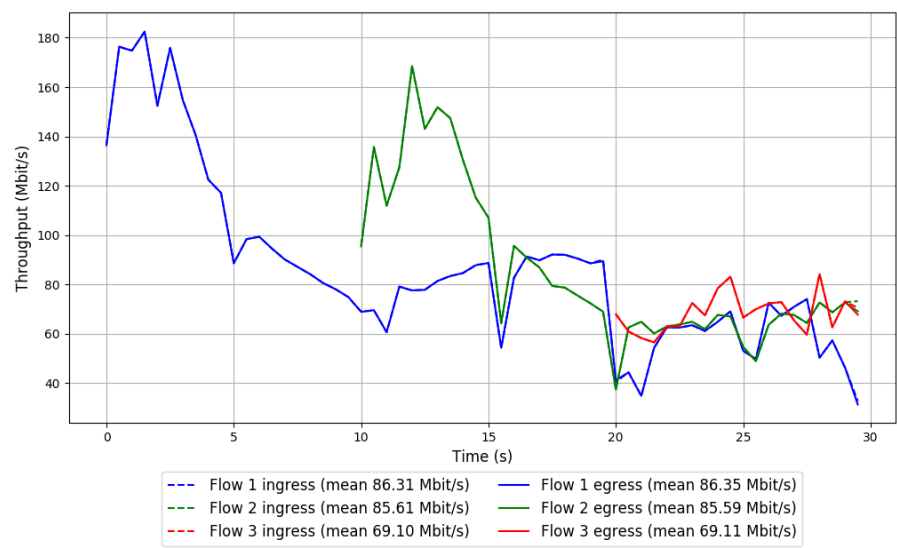


Run 5: Statistics of Copa

Start at: 2018-04-24 19:02:16  
End at: 2018-04-24 19:02:46  
Local clock offset: 0.382 ms  
Remote clock offset: -6.507 ms

```
# Below is generated by plot.py at 2018-04-25 03:36:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.10 Mbit/s
95th percentile per-packet one-way delay: 1.191 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 86.35 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 85.59 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 69.11 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.21%
```

Run 5: Report of Copa — Data Link

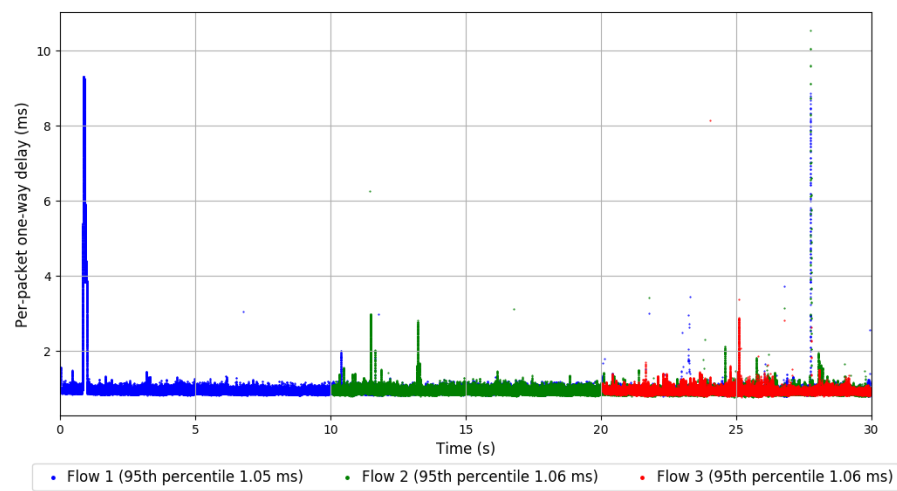
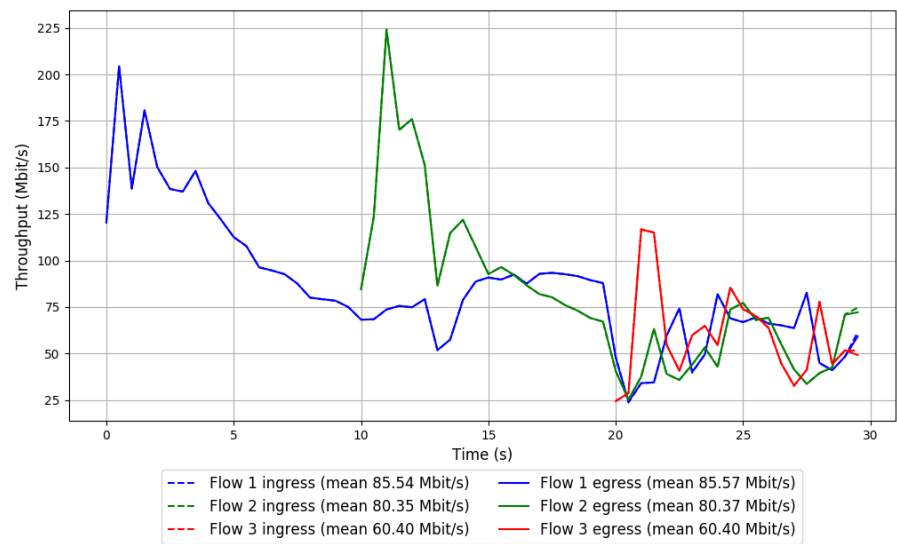


Run 6: Statistics of Copa

Start at: 2018-04-24 19:28:57  
End at: 2018-04-24 19:29:27  
Local clock offset: 0.654 ms  
Remote clock offset: -6.031 ms

# Below is generated by plot.py at 2018-04-25 03:36:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 158.99 Mbit/s  
95th percentile per-packet one-way delay: 1.053 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 85.57 Mbit/s  
95th percentile per-packet one-way delay: 1.048 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 80.37 Mbit/s  
95th percentile per-packet one-way delay: 1.061 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 60.40 Mbit/s  
95th percentile per-packet one-way delay: 1.056 ms  
Loss rate: 0.21%

Run 6: Report of Copa — Data Link



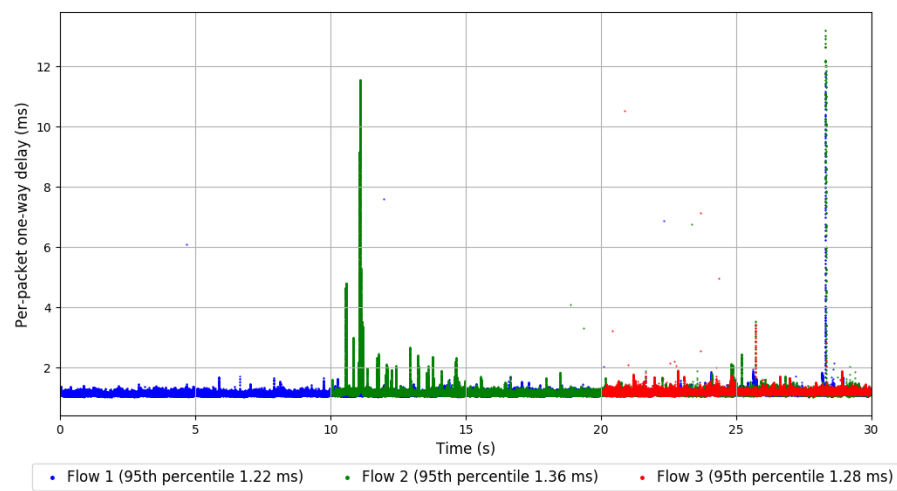
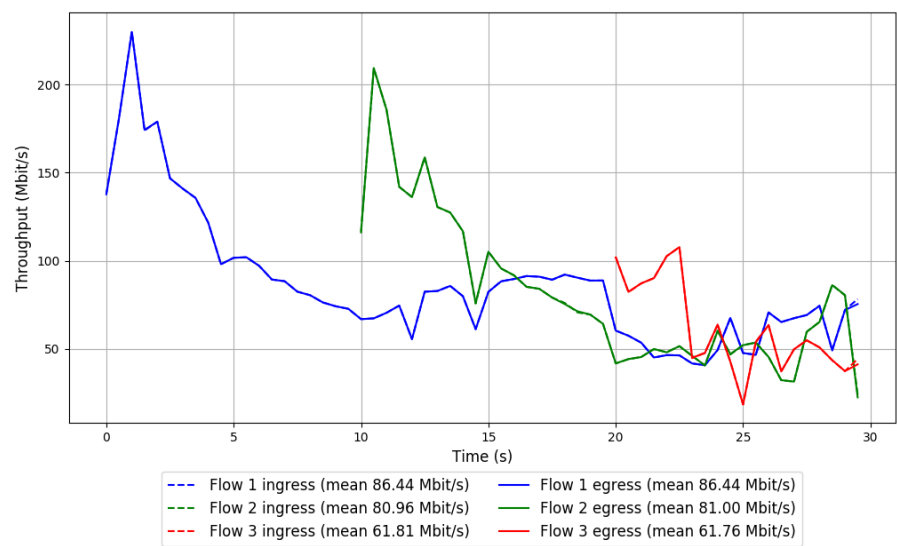


Run 7: Statistics of Copa

Start at: 2018-04-24 19:55:35  
End at: 2018-04-24 19:56:05  
Local clock offset: 0.877 ms  
Remote clock offset: -5.394 ms

# Below is generated by plot.py at 2018-04-25 03:37:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 160.69 Mbit/s  
95th percentile per-packet one-way delay: 1.254 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 86.44 Mbit/s  
95th percentile per-packet one-way delay: 1.219 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 81.00 Mbit/s  
95th percentile per-packet one-way delay: 1.357 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 61.76 Mbit/s  
95th percentile per-packet one-way delay: 1.277 ms  
Loss rate: 0.25%

Run 7: Report of Copa — Data Link

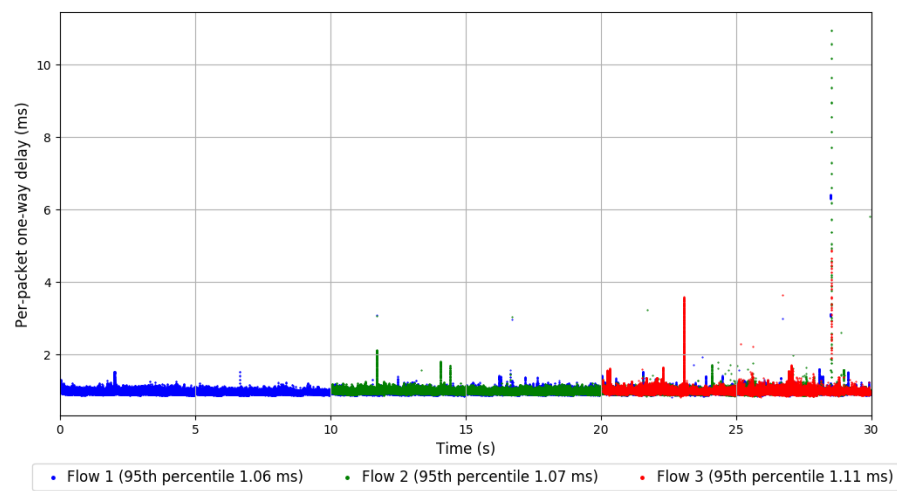
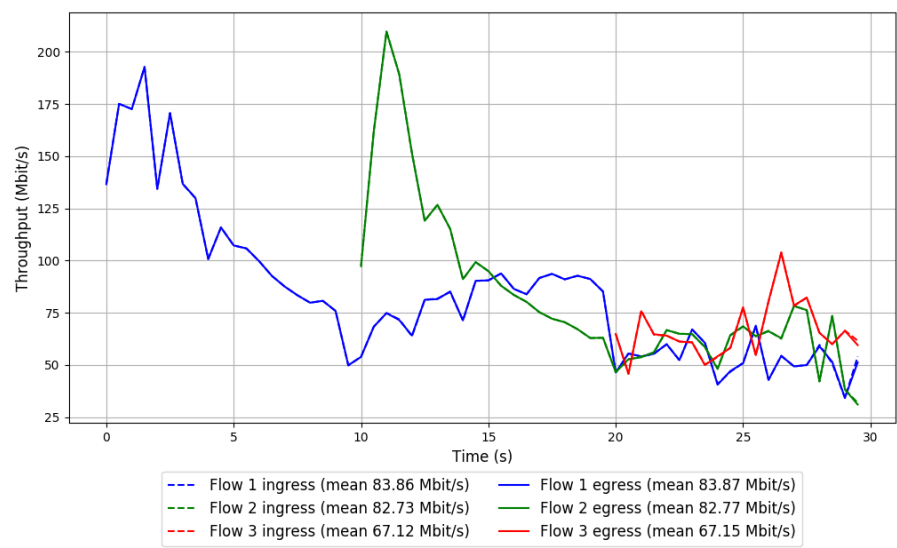


Run 8: Statistics of Copa

Start at: 2018-04-24 20:22:05  
End at: 2018-04-24 20:22:35  
Local clock offset: 0.348 ms  
Remote clock offset: -5.239 ms

# Below is generated by plot.py at 2018-04-25 03:38:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 161.07 Mbit/s  
95th percentile per-packet one-way delay: 1.072 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 83.87 Mbit/s  
95th percentile per-packet one-way delay: 1.060 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 82.77 Mbit/s  
95th percentile per-packet one-way delay: 1.073 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 67.15 Mbit/s  
95th percentile per-packet one-way delay: 1.112 ms  
Loss rate: 0.17%

Run 8: Report of Copa — Data Link

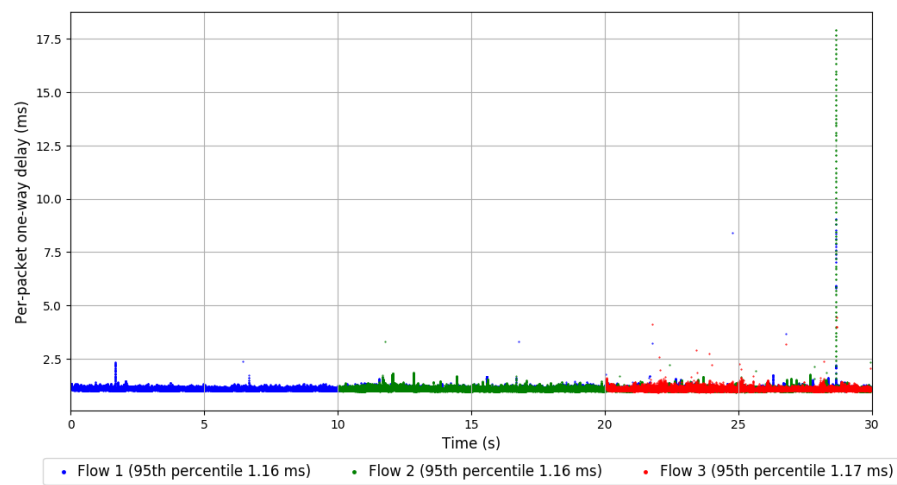
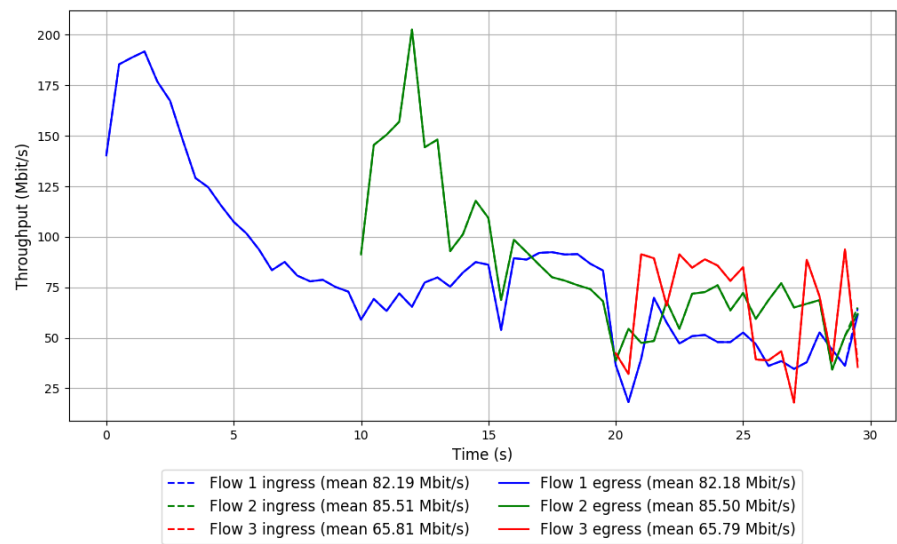


Run 9: Statistics of Copa

Start at: 2018-04-24 20:48:34  
End at: 2018-04-24 20:49:04  
Local clock offset: 0.527 ms  
Remote clock offset: -5.263 ms

# Below is generated by plot.py at 2018-04-25 03:38:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 160.75 Mbit/s  
95th percentile per-packet one-way delay: 1.161 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 82.18 Mbit/s  
95th percentile per-packet one-way delay: 1.161 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 85.50 Mbit/s  
95th percentile per-packet one-way delay: 1.157 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 65.79 Mbit/s  
95th percentile per-packet one-way delay: 1.167 ms  
Loss rate: 0.21%

Run 9: Report of Copa — Data Link

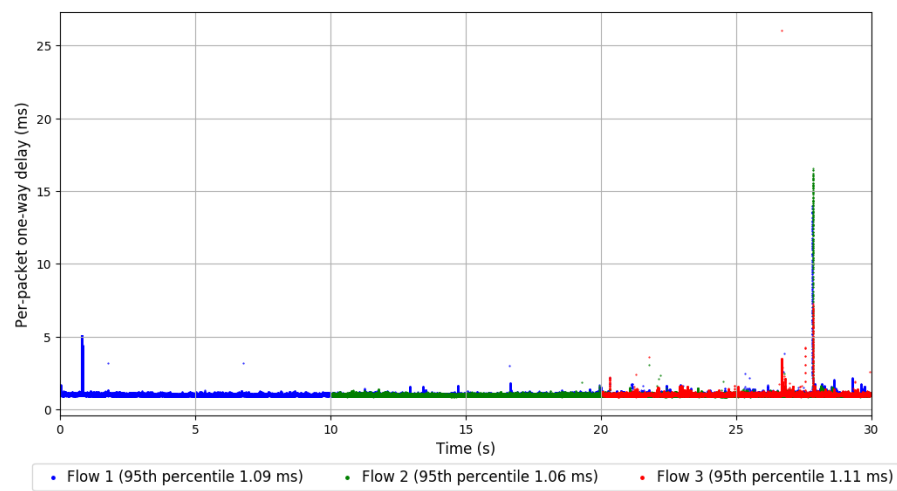
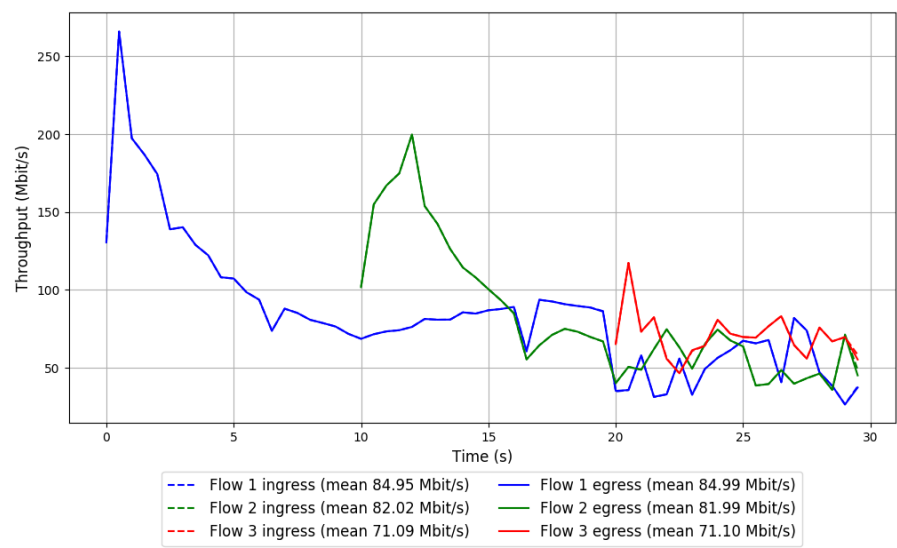


Run 10: Statistics of Copa

Start at: 2018-04-24 21:15:12  
End at: 2018-04-24 21:15:42  
Local clock offset: 0.396 ms  
Remote clock offset: -5.289 ms

# Below is generated by plot.py at 2018-04-25 03:39:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 163.04 Mbit/s  
95th percentile per-packet one-way delay: 1.087 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 84.99 Mbit/s  
95th percentile per-packet one-way delay: 1.094 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 81.99 Mbit/s  
95th percentile per-packet one-way delay: 1.059 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 71.10 Mbit/s  
95th percentile per-packet one-way delay: 1.115 ms  
Loss rate: 0.21%

Run 10: Report of Copa — Data Link



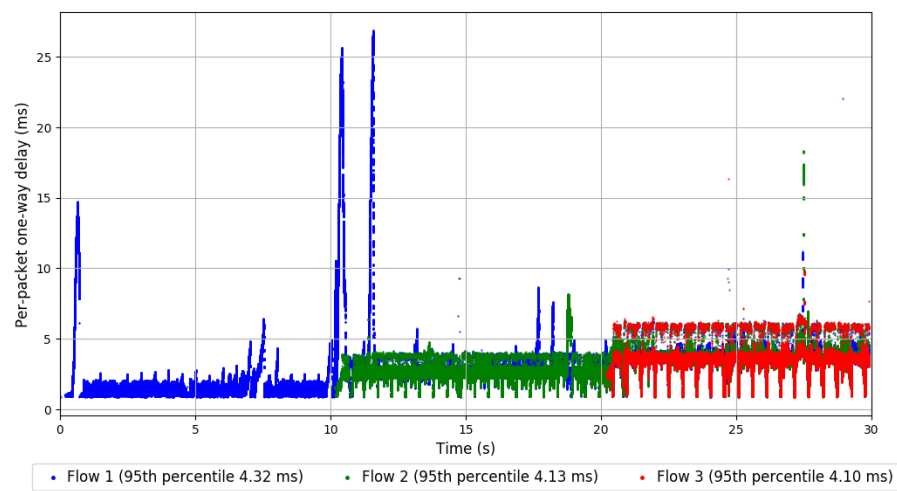
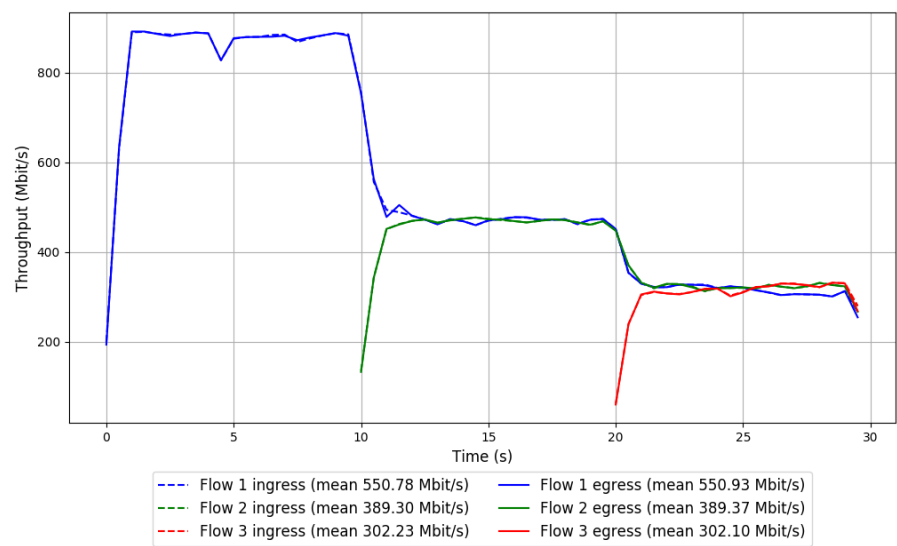


Run 1: Statistics of FillP

Start at: 2018-04-24 16:58:48  
End at: 2018-04-24 16:59:18  
Local clock offset: 0.187 ms  
Remote clock offset: -5.152 ms

# Below is generated by plot.py at 2018-04-25 03:50:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 909.77 Mbit/s  
95th percentile per-packet one-way delay: 4.200 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 550.93 Mbit/s  
95th percentile per-packet one-way delay: 4.318 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 389.37 Mbit/s  
95th percentile per-packet one-way delay: 4.130 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 302.10 Mbit/s  
95th percentile per-packet one-way delay: 4.097 ms  
Loss rate: 0.24%

Run 1: Report of FillP — Data Link

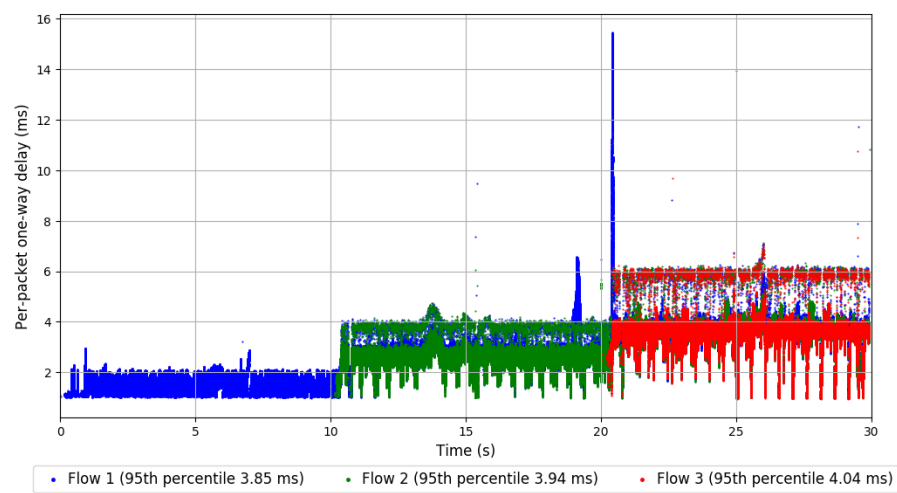
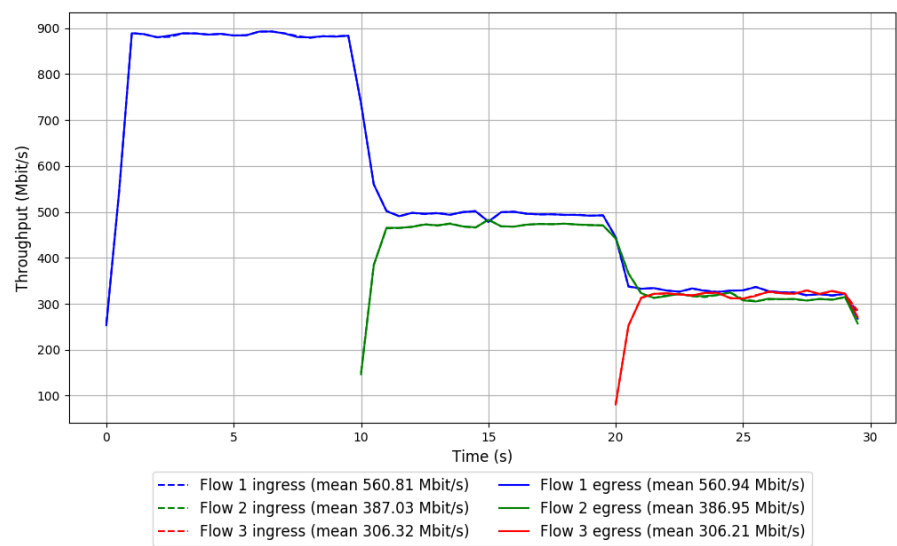


Run 2: Statistics of FillP

Start at: 2018-04-24 17:25:27  
End at: 2018-04-24 17:25:57  
Local clock offset: 0.477 ms  
Remote clock offset: -5.396 ms

# Below is generated by plot.py at 2018-04-25 03:50:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 919.56 Mbit/s  
95th percentile per-packet one-way delay: 3.913 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 560.94 Mbit/s  
95th percentile per-packet one-way delay: 3.855 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 386.95 Mbit/s  
95th percentile per-packet one-way delay: 3.941 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 306.21 Mbit/s  
95th percentile per-packet one-way delay: 4.037 ms  
Loss rate: 0.24%

Run 2: Report of FillP — Data Link

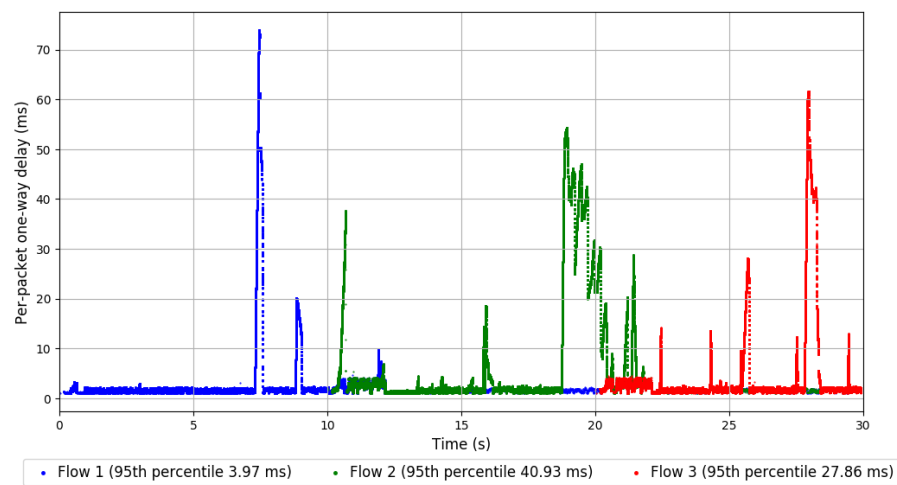
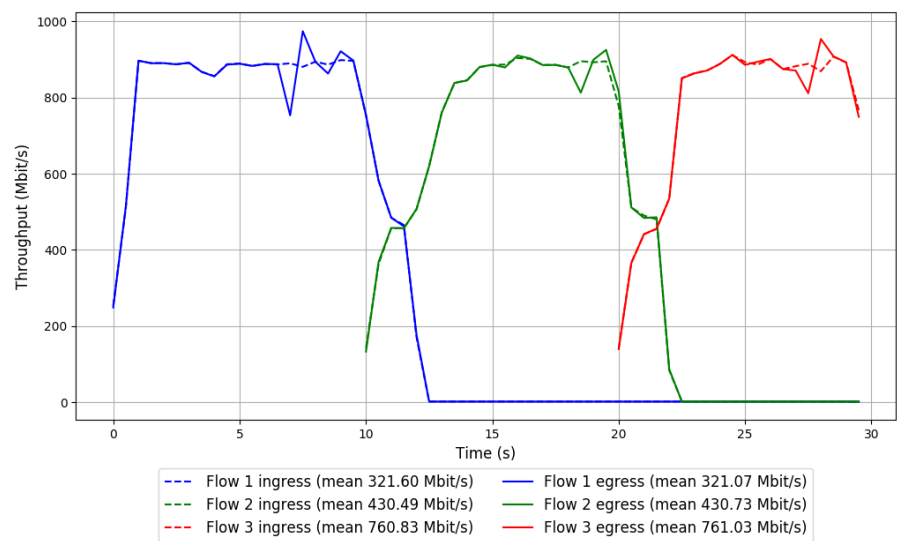


Run 3: Statistics of FillP

Start at: 2018-04-24 17:52:08  
End at: 2018-04-24 17:52:38  
Local clock offset: -0.135 ms  
Remote clock offset: -6.224 ms

# Below is generated by plot.py at 2018-04-25 03:50:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 859.31 Mbit/s  
95th percentile per-packet one-way delay: 33.792 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 321.07 Mbit/s  
95th percentile per-packet one-way delay: 3.974 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 430.73 Mbit/s  
95th percentile per-packet one-way delay: 40.928 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 761.03 Mbit/s  
95th percentile per-packet one-way delay: 27.864 ms  
Loss rate: 0.16%

Run 3: Report of FillP — Data Link

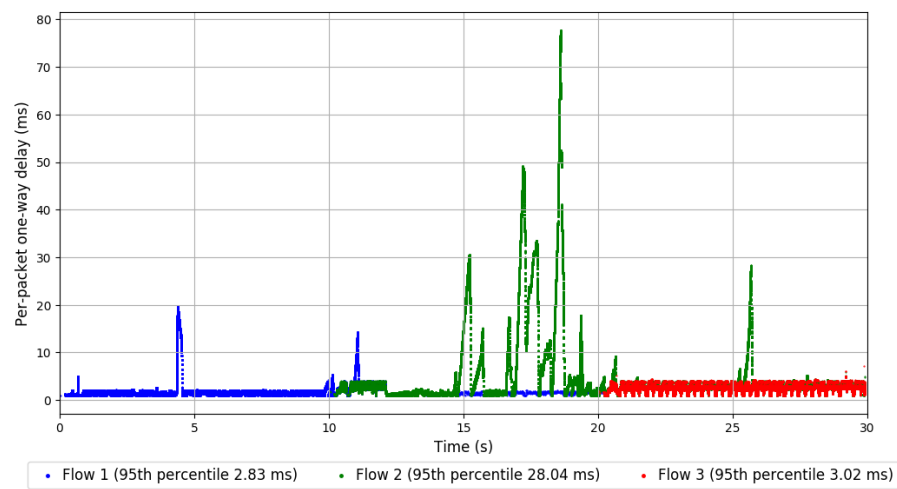
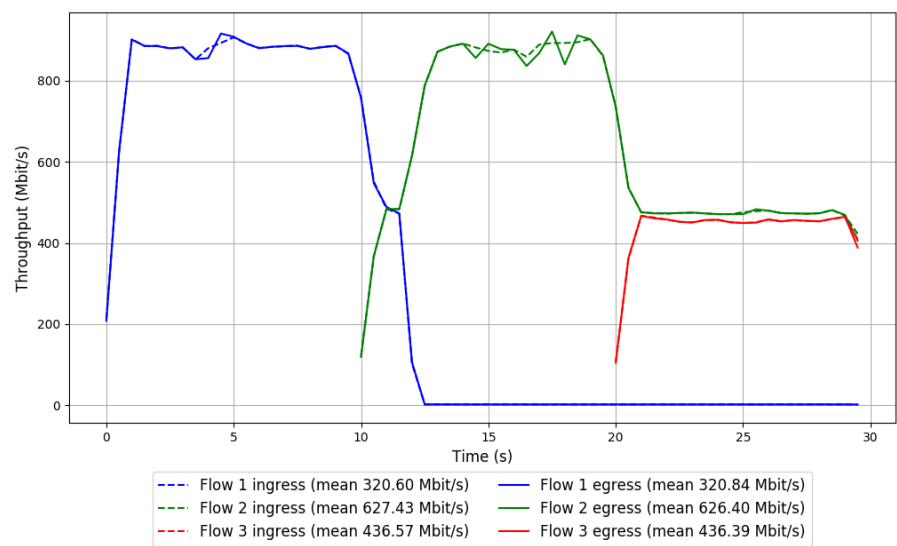


Run 4: Statistics of FillP

Start at: 2018-04-24 18:18:42  
End at: 2018-04-24 18:19:12  
Local clock offset: -1.19 ms  
Remote clock offset: -5.111 ms

# Below is generated by plot.py at 2018-04-25 03:50:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 880.76 Mbit/s  
95th percentile per-packet one-way delay: 16.423 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 320.84 Mbit/s  
95th percentile per-packet one-way delay: 2.828 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 626.40 Mbit/s  
95th percentile per-packet one-way delay: 28.038 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 436.39 Mbit/s  
95th percentile per-packet one-way delay: 3.015 ms  
Loss rate: 0.25%

Run 4: Report of FillP — Data Link



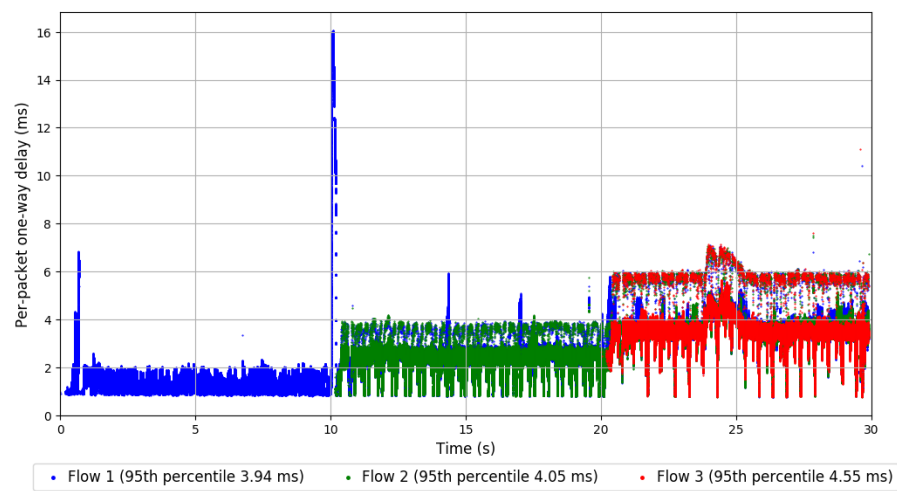
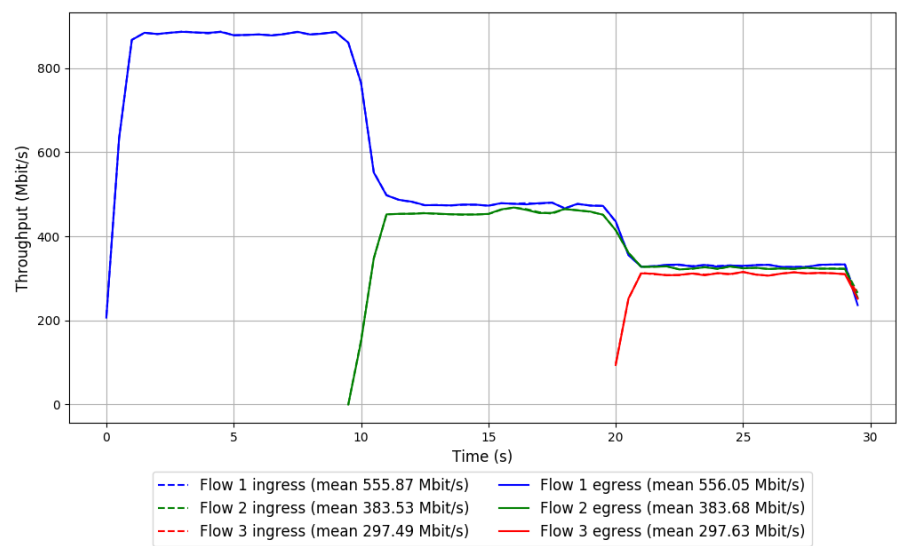


Run 5: Statistics of FillP

Start at: 2018-04-24 18:45:02  
End at: 2018-04-24 18:45:32  
Local clock offset: -1.435 ms  
Remote clock offset: -6.221 ms

# Below is generated by plot.py at 2018-04-25 03:52:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 909.78 Mbit/s  
95th percentile per-packet one-way delay: 4.113 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 556.05 Mbit/s  
95th percentile per-packet one-way delay: 3.945 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 383.68 Mbit/s  
95th percentile per-packet one-way delay: 4.047 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 297.63 Mbit/s  
95th percentile per-packet one-way delay: 4.549 ms  
Loss rate: 0.25%

Run 5: Report of FillP — Data Link

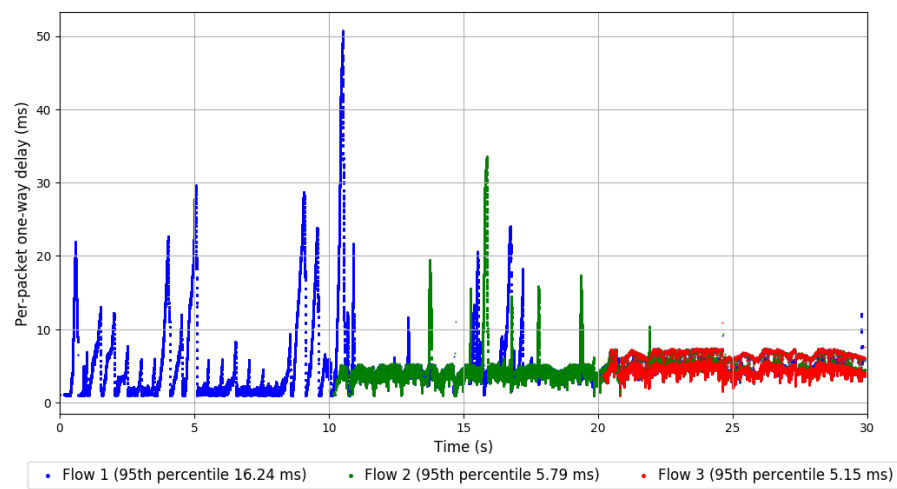
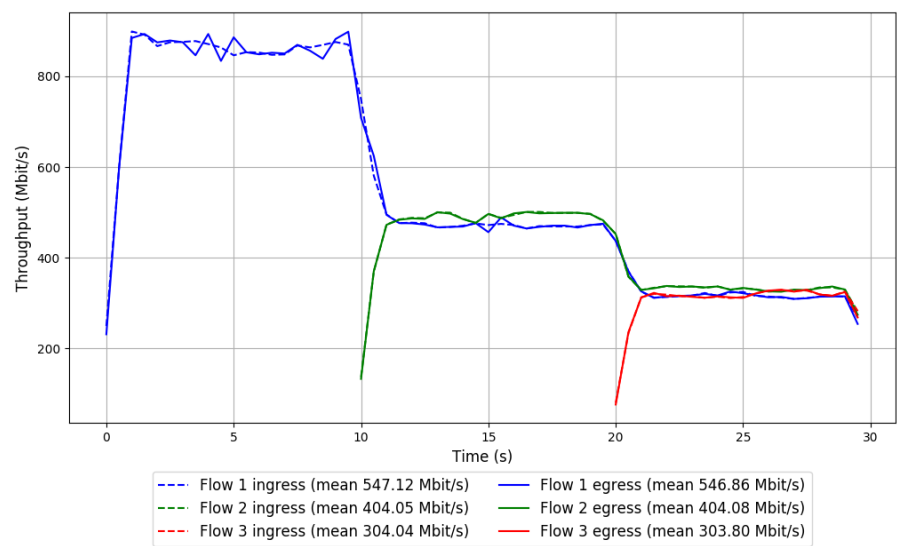


Run 6: Statistics of FillP

Start at: 2018-04-24 19:11:46  
End at: 2018-04-24 19:12:16  
Local clock offset: 0.734 ms  
Remote clock offset: -6.227 ms

# Below is generated by plot.py at 2018-04-25 03:52:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 916.05 Mbit/s  
95th percentile per-packet one-way delay: 12.636 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 546.86 Mbit/s  
95th percentile per-packet one-way delay: 16.238 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 404.08 Mbit/s  
95th percentile per-packet one-way delay: 5.789 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 303.80 Mbit/s  
95th percentile per-packet one-way delay: 5.146 ms  
Loss rate: 0.30%

Run 6: Report of FillP — Data Link

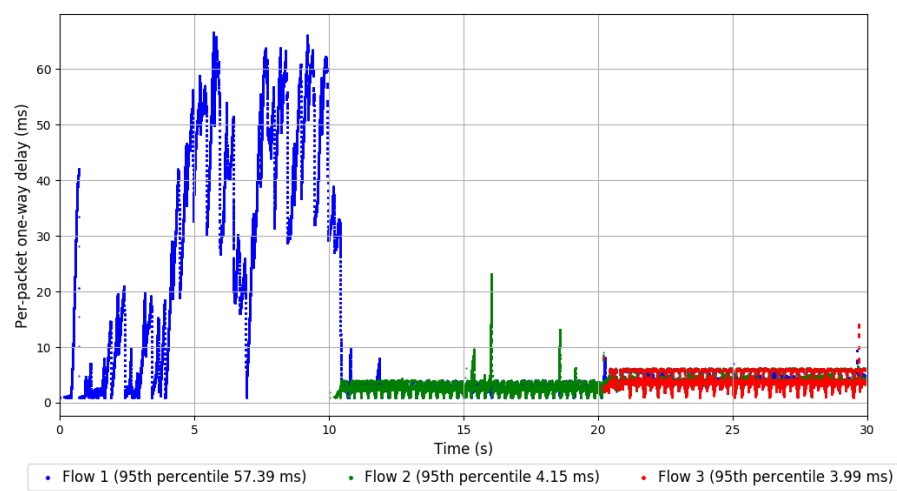
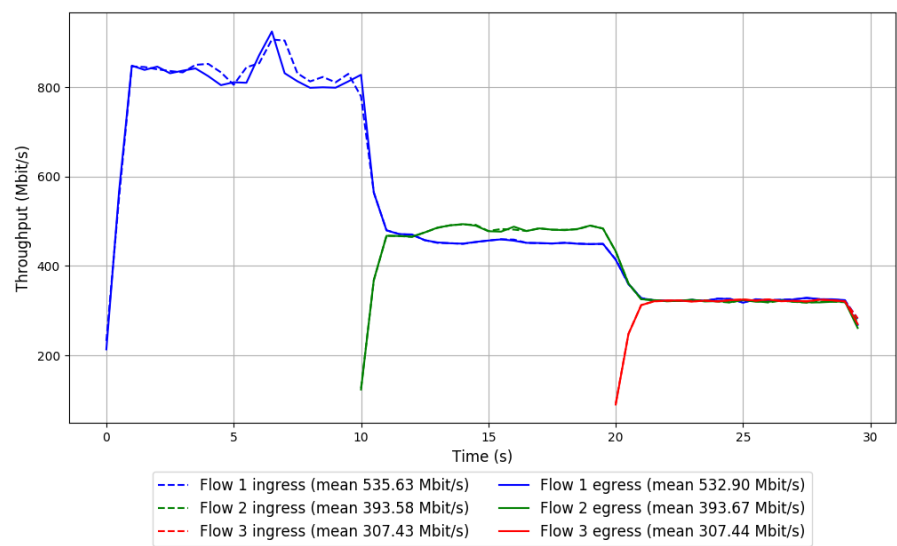


Run 7: Statistics of FillP

Start at: 2018-04-24 19:38:25  
End at: 2018-04-24 19:38:55  
Local clock offset: 0.806 ms  
Remote clock offset: -5.934 ms

# Below is generated by plot.py at 2018-04-25 03:52:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 896.28 Mbit/s  
95th percentile per-packet one-way delay: 52.966 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 532.90 Mbit/s  
95th percentile per-packet one-way delay: 57.394 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 393.67 Mbit/s  
95th percentile per-packet one-way delay: 4.147 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 307.44 Mbit/s  
95th percentile per-packet one-way delay: 3.986 ms  
Loss rate: 0.24%

Run 7: Report of FillP — Data Link

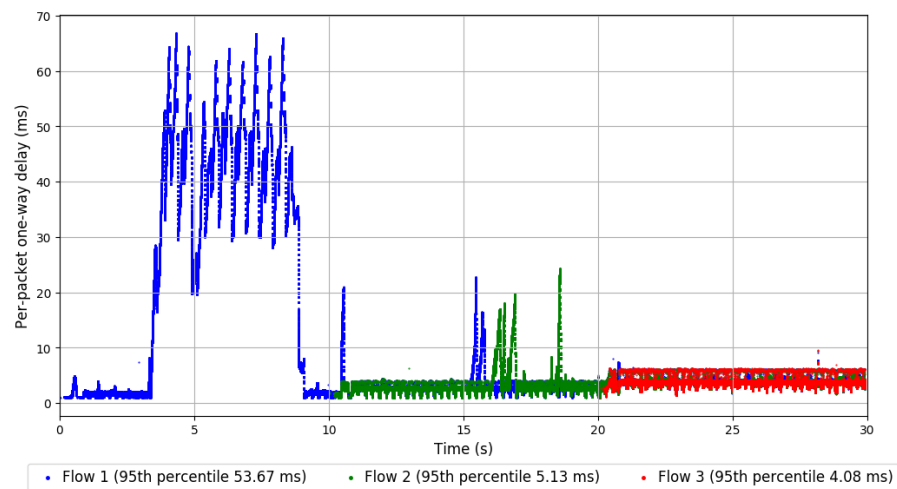
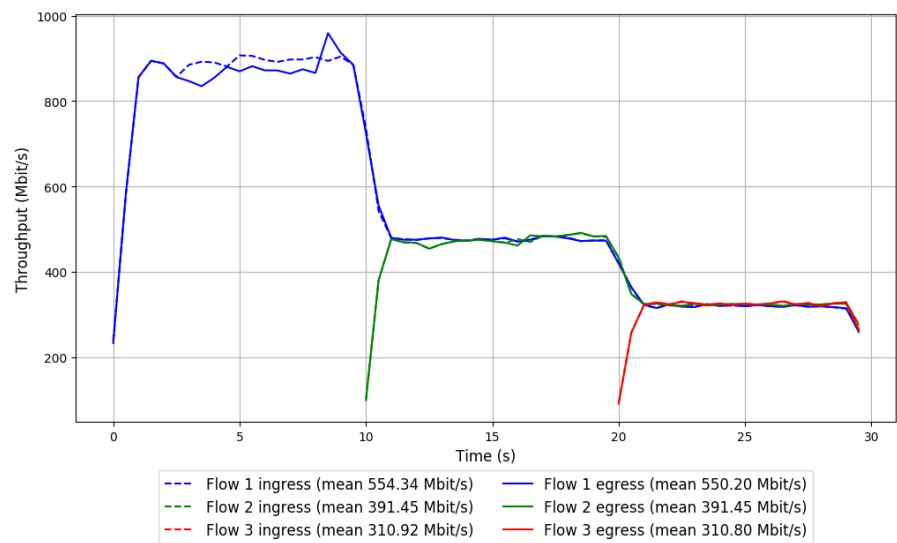


Run 8: Statistics of FillP

Start at: 2018-04-24 20:04:57  
End at: 2018-04-24 20:05:27  
Local clock offset: 0.533 ms  
Remote clock offset: -5.266 ms

# Below is generated by plot.py at 2018-04-25 03:53:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 913.05 Mbit/s  
95th percentile per-packet one-way delay: 49.364 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 550.20 Mbit/s  
95th percentile per-packet one-way delay: 53.666 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 391.45 Mbit/s  
95th percentile per-packet one-way delay: 5.126 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 310.80 Mbit/s  
95th percentile per-packet one-way delay: 4.078 ms  
Loss rate: 0.23%

Run 8: Report of FillP — Data Link



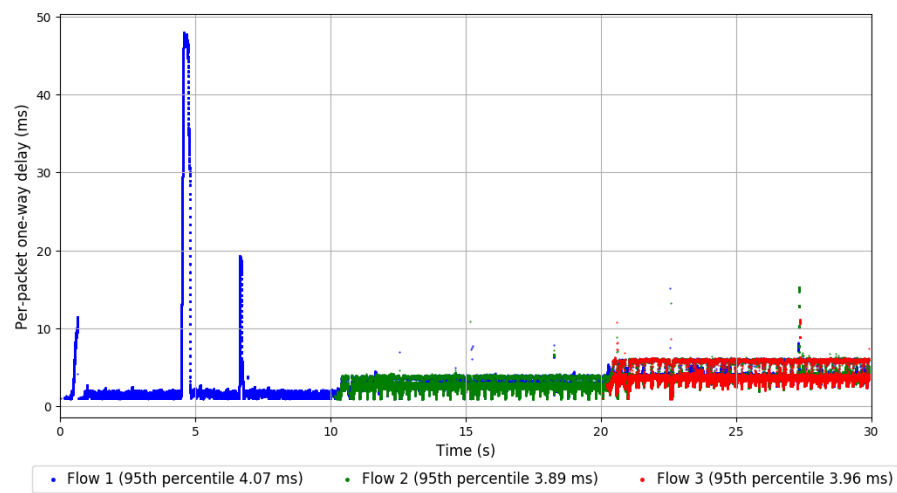
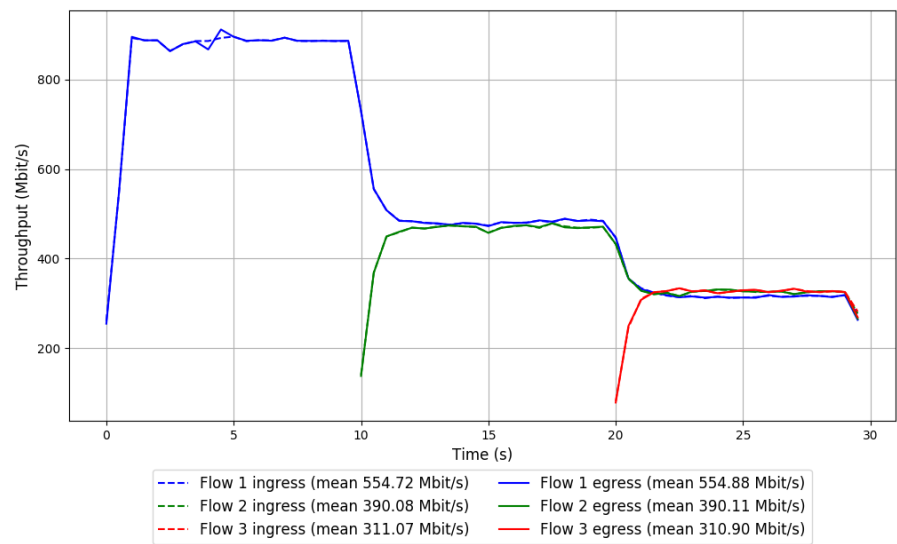


Run 9: Statistics of FillP

Start at: 2018-04-24 20:31:27  
End at: 2018-04-24 20:31:57  
Local clock offset: 0.387 ms  
Remote clock offset: -5.239 ms

# Below is generated by plot.py at 2018-04-25 04:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 916.92 Mbit/s  
95th percentile per-packet one-way delay: 3.968 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 554.88 Mbit/s  
95th percentile per-packet one-way delay: 4.071 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 390.11 Mbit/s  
95th percentile per-packet one-way delay: 3.894 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 310.90 Mbit/s  
95th percentile per-packet one-way delay: 3.961 ms  
Loss rate: 0.25%

Run 9: Report of FillP — Data Link

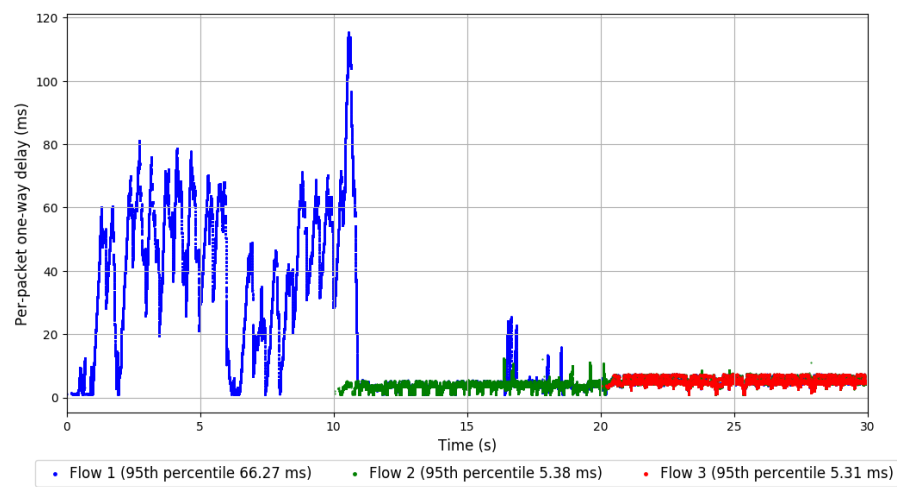
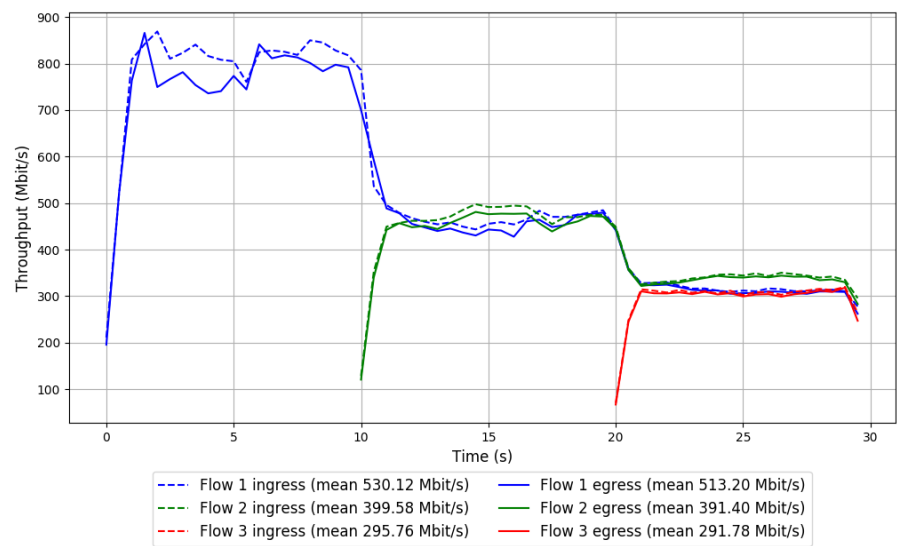


Run 10: Statistics of FillP

Start at: 2018-04-24 20:58:01  
End at: 2018-04-24 20:58:31  
Local clock offset: 0.624 ms  
Remote clock offset: -5.356 ms

# Below is generated by plot.py at 2018-04-25 04:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 869.70 Mbit/s  
95th percentile per-packet one-way delay: 62.549 ms  
Loss rate: 2.73%  
-- Flow 1:  
Average throughput: 513.20 Mbit/s  
95th percentile per-packet one-way delay: 66.270 ms  
Loss rate: 3.25%  
-- Flow 2:  
Average throughput: 391.40 Mbit/s  
95th percentile per-packet one-way delay: 5.383 ms  
Loss rate: 2.14%  
-- Flow 3:  
Average throughput: 291.78 Mbit/s  
95th percentile per-packet one-way delay: 5.307 ms  
Loss rate: 1.52%

Run 10: Report of FillP — Data Link

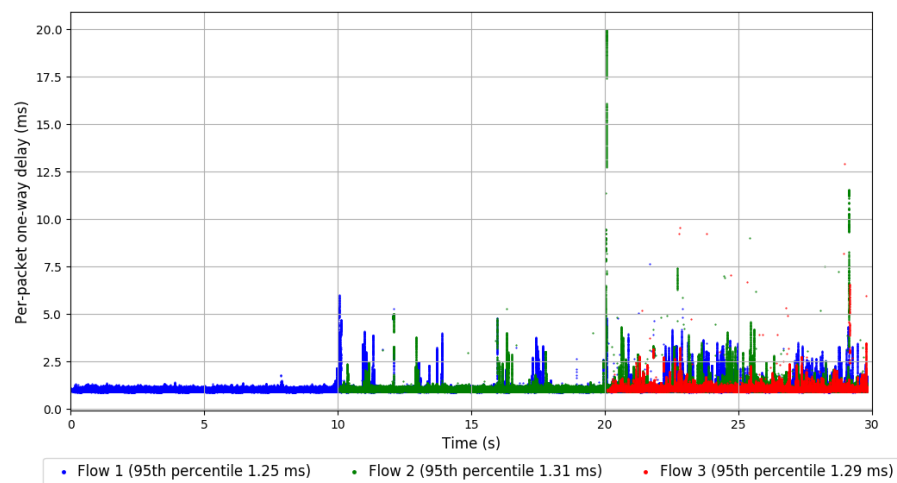
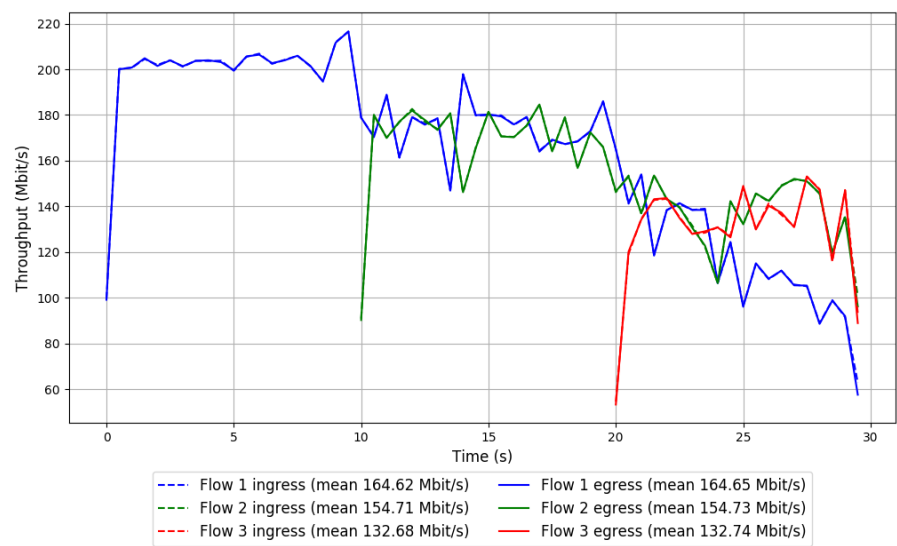


Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 17:03:24  
End at: 2018-04-24 17:03:54  
Local clock offset: 0.222 ms  
Remote clock offset: -5.123 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 310.41 Mbit/s  
95th percentile per-packet one-way delay: 1.276 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 164.65 Mbit/s  
95th percentile per-packet one-way delay: 1.252 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 154.73 Mbit/s  
95th percentile per-packet one-way delay: 1.308 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 132.74 Mbit/s  
95th percentile per-packet one-way delay: 1.287 ms  
Loss rate: 0.17%

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

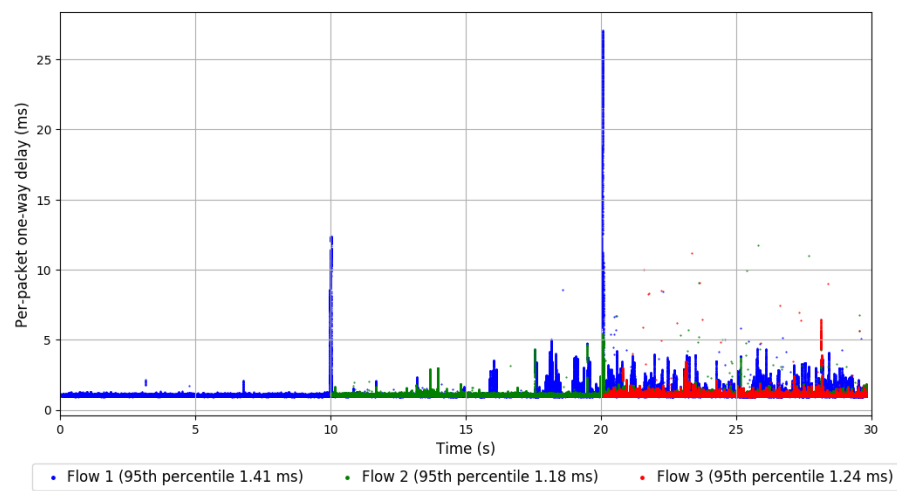
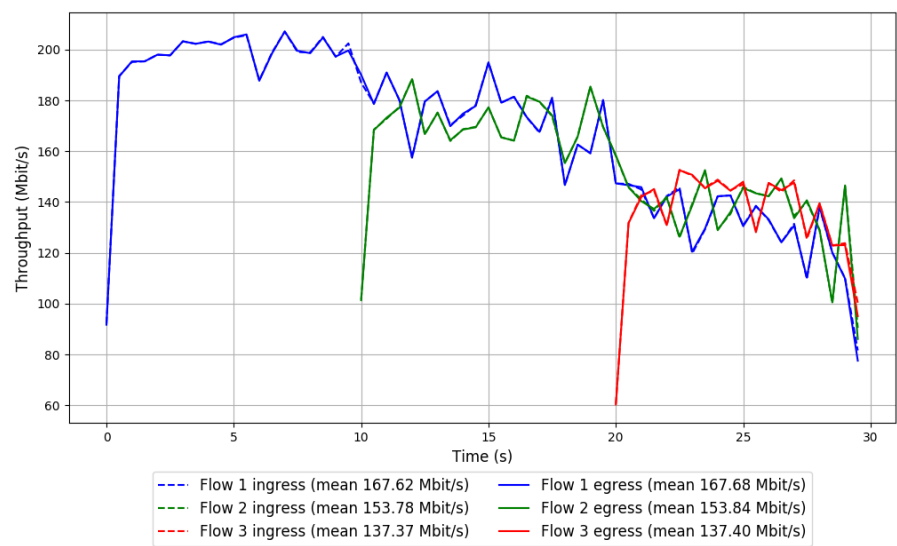


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 17:30:04  
End at: 2018-04-24 17:30:34  
Local clock offset: 0.454 ms  
Remote clock offset: -5.756 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 314.69 Mbit/s  
95th percentile per-packet one-way delay: 1.264 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 167.68 Mbit/s  
95th percentile per-packet one-way delay: 1.406 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 153.84 Mbit/s  
95th percentile per-packet one-way delay: 1.181 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 137.40 Mbit/s  
95th percentile per-packet one-way delay: 1.237 ms  
Loss rate: 0.23%

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



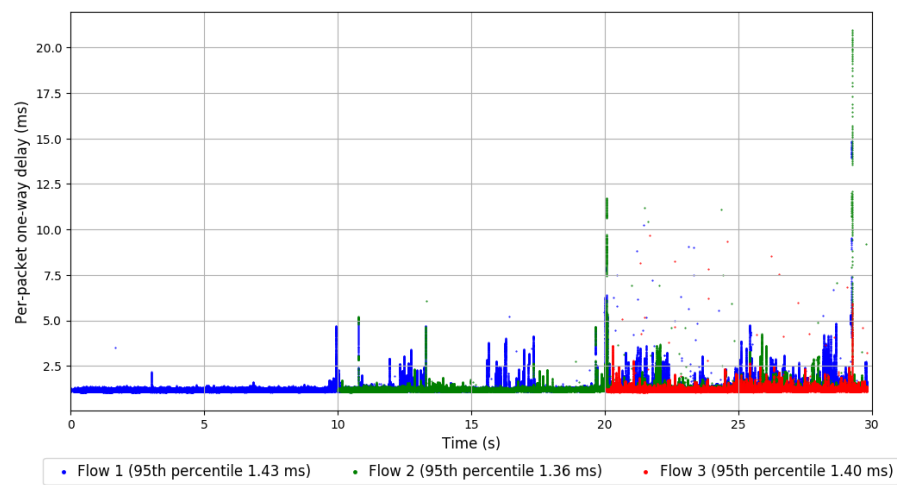
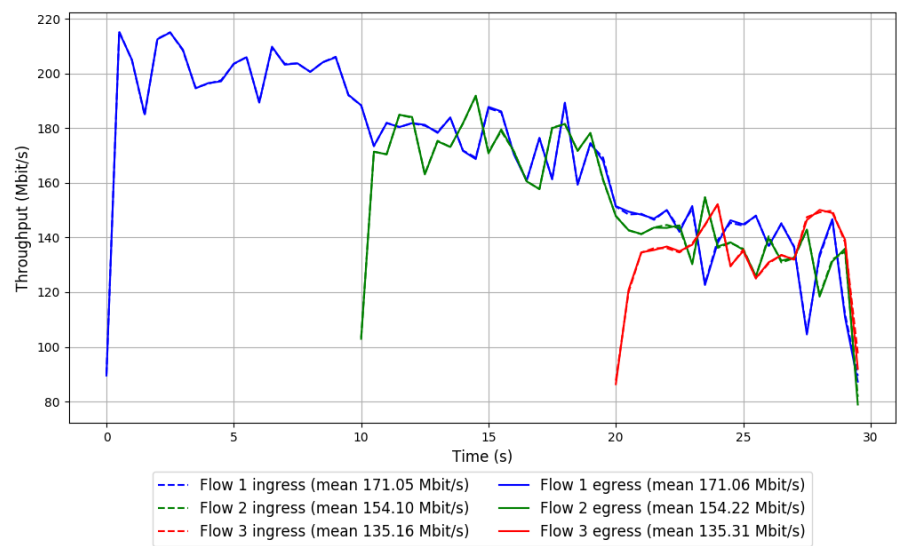


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 17:56:42  
End at: 2018-04-24 17:57:12  
Local clock offset: -0.316 ms  
Remote clock offset: -5.995 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 317.80 Mbit/s  
95th percentile per-packet one-way delay: 1.398 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 171.06 Mbit/s  
95th percentile per-packet one-way delay: 1.430 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 154.22 Mbit/s  
95th percentile per-packet one-way delay: 1.361 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 135.31 Mbit/s  
95th percentile per-packet one-way delay: 1.400 ms  
Loss rate: 0.21%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 18:23:17

End at: 2018-04-24 18:23:47

Local clock offset: -1.369 ms

Remote clock offset: -5.03 ms

# Below is generated by plot.py at 2018-04-25 04:04:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 304.06 Mbit/s

95th percentile per-packet one-way delay: 1.249 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 171.99 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 161.55 Mbit/s

95th percentile per-packet one-way delay: 1.627 ms

Loss rate: 0.09%

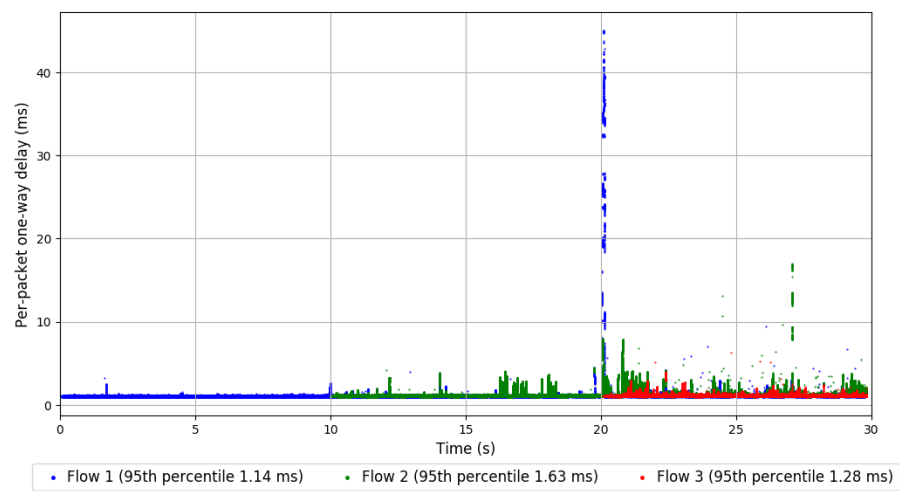
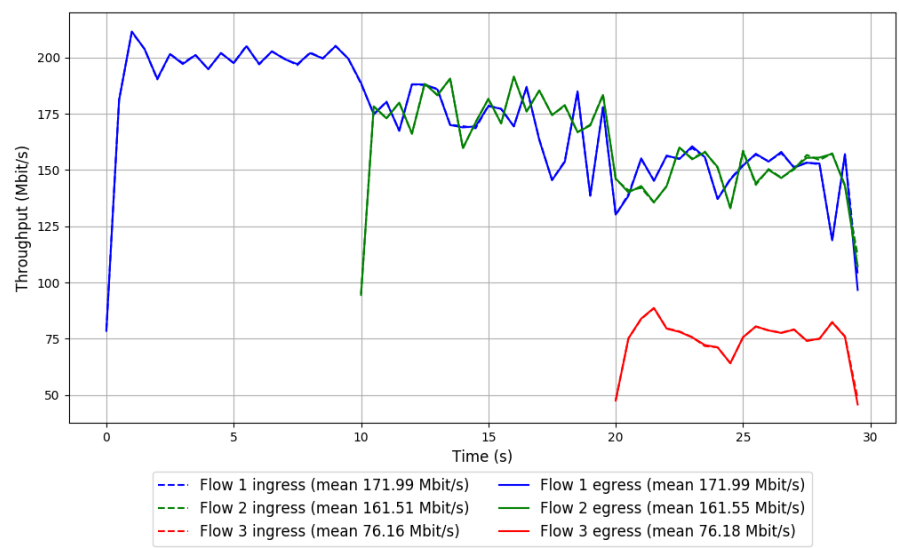
-- Flow 3:

Average throughput: 76.18 Mbit/s

95th percentile per-packet one-way delay: 1.283 ms

Loss rate: 0.20%

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

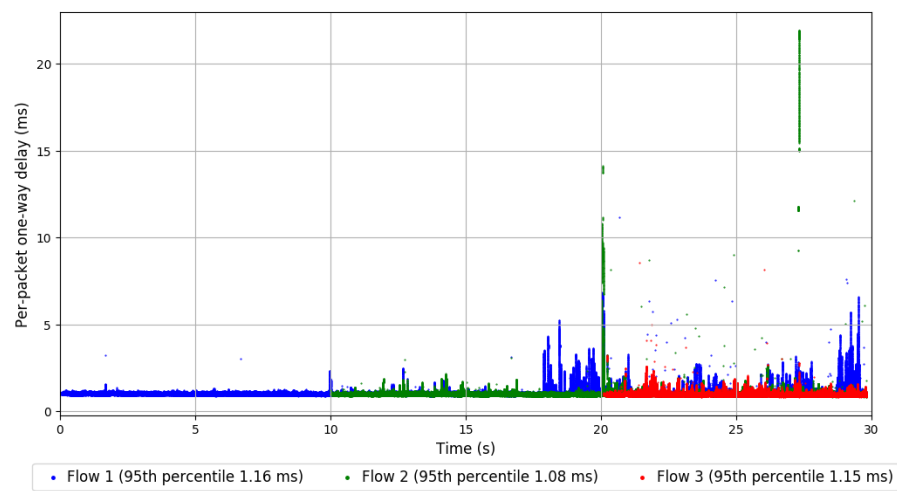
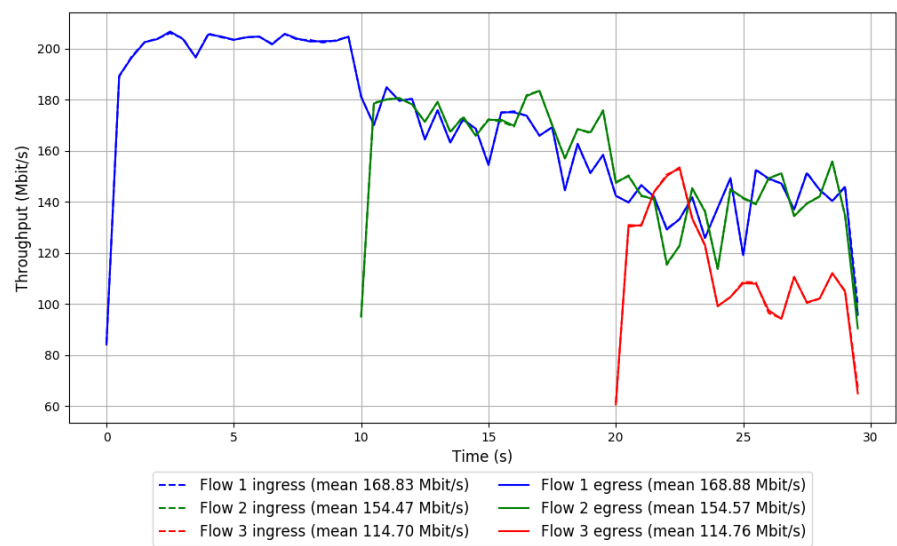


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 18:49:37  
End at: 2018-04-24 18:50:07  
Local clock offset: -0.645 ms  
Remote clock offset: -6.324 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 308.97 Mbit/s  
95th percentile per-packet one-way delay: 1.126 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 168.88 Mbit/s  
95th percentile per-packet one-way delay: 1.160 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 154.57 Mbit/s  
95th percentile per-packet one-way delay: 1.083 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 114.76 Mbit/s  
95th percentile per-packet one-way delay: 1.154 ms  
Loss rate: 0.12%

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

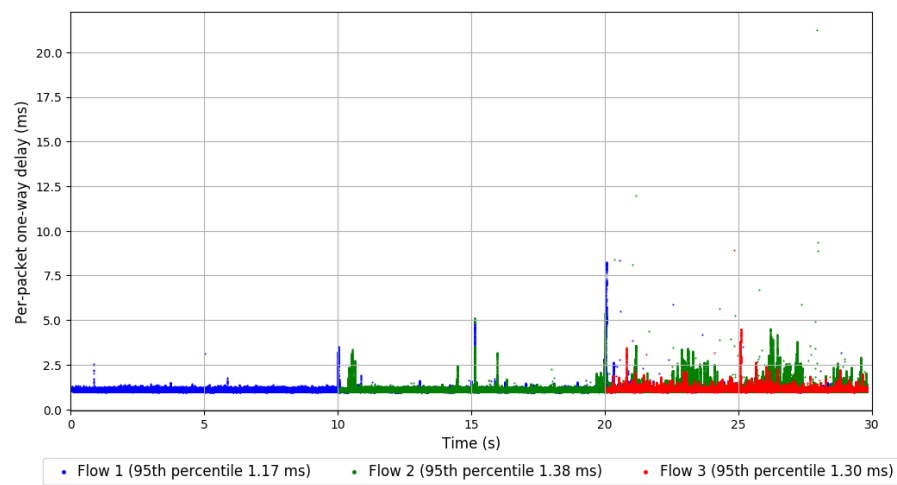
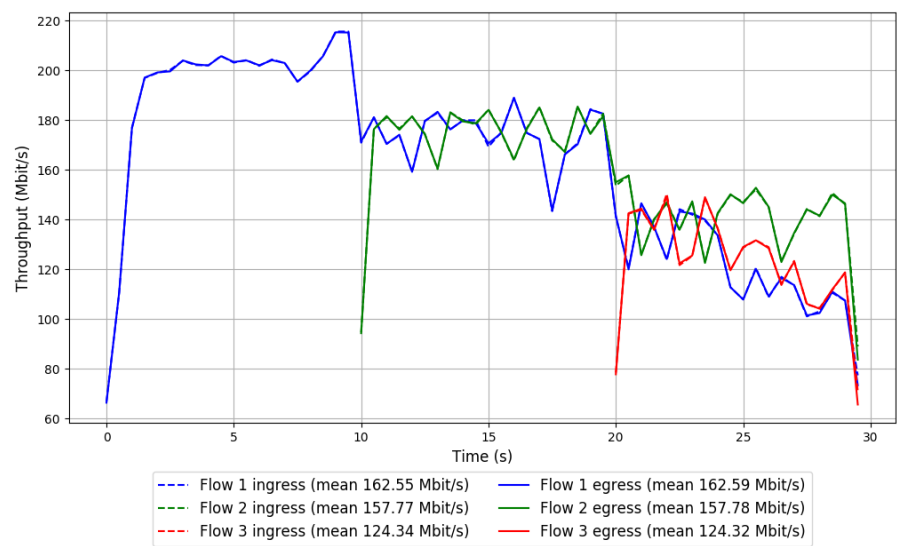


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 19:16:23  
End at: 2018-04-24 19:16:53  
Local clock offset: 0.888 ms  
Remote clock offset: -6.166 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 308.06 Mbit/s  
95th percentile per-packet one-way delay: 1.227 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 162.59 Mbit/s  
95th percentile per-packet one-way delay: 1.173 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 157.78 Mbit/s  
95th percentile per-packet one-way delay: 1.383 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 124.32 Mbit/s  
95th percentile per-packet one-way delay: 1.305 ms  
Loss rate: 0.22%

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



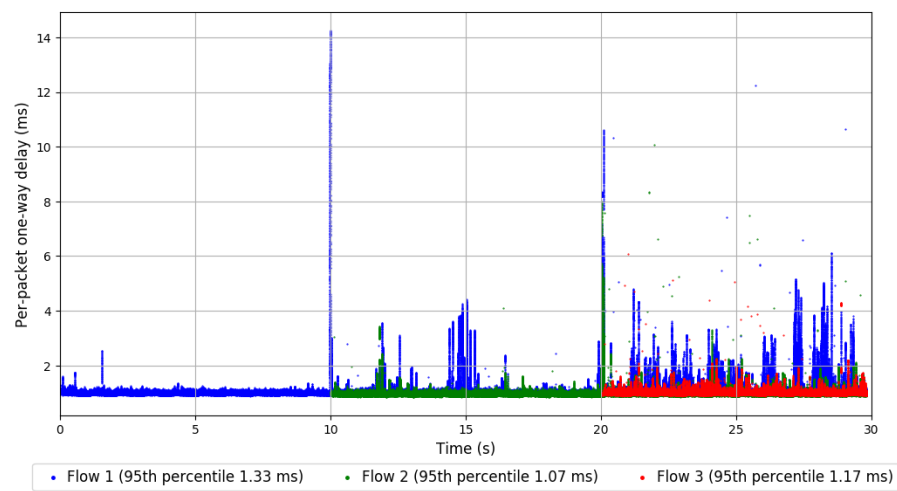
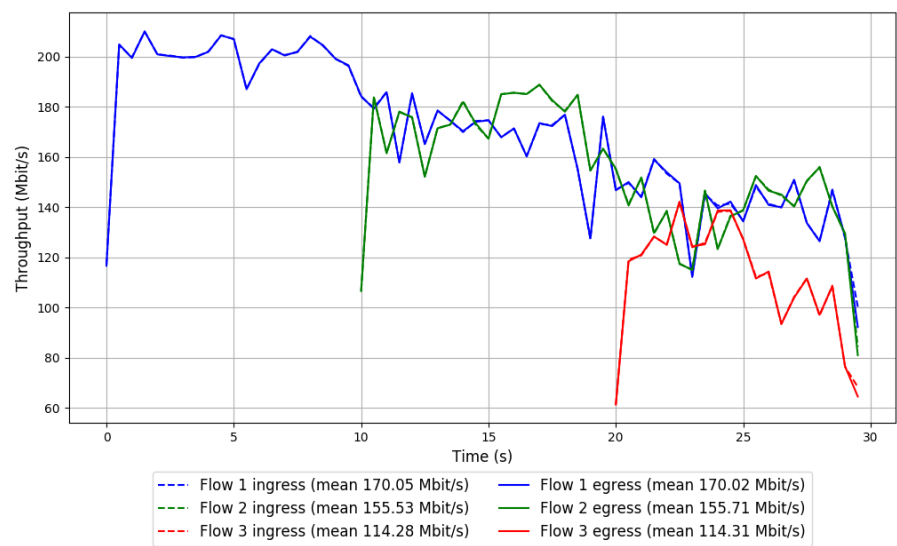


Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 19:43:01  
End at: 2018-04-24 19:43:31  
Local clock offset: 0.969 ms  
Remote clock offset: -5.631 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 310.82 Mbit/s  
95th percentile per-packet one-way delay: 1.187 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 170.02 Mbit/s  
95th percentile per-packet one-way delay: 1.330 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 155.71 Mbit/s  
95th percentile per-packet one-way delay: 1.074 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 114.31 Mbit/s  
95th percentile per-packet one-way delay: 1.166 ms  
Loss rate: 0.17%

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

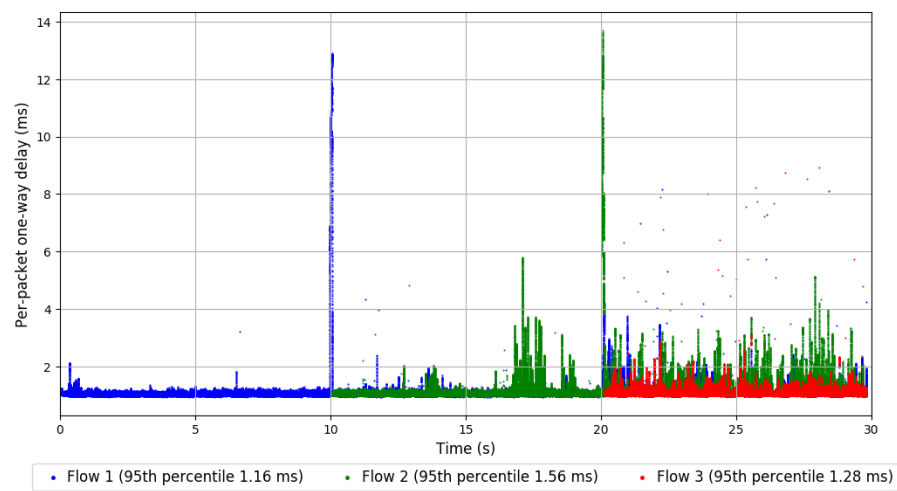
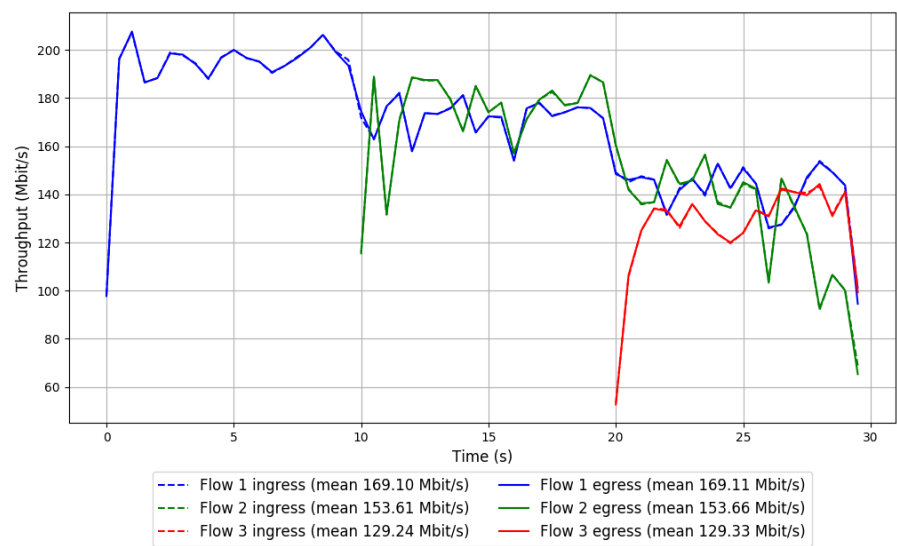


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 20:09:33  
End at: 2018-04-24 20:10:03  
Local clock offset: 0.486 ms  
Remote clock offset: -5.157 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 313.22 Mbit/s  
95th percentile per-packet one-way delay: 1.259 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 169.11 Mbit/s  
95th percentile per-packet one-way delay: 1.161 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 153.66 Mbit/s  
95th percentile per-packet one-way delay: 1.557 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 129.33 Mbit/s  
95th percentile per-packet one-way delay: 1.281 ms  
Loss rate: 0.12%

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

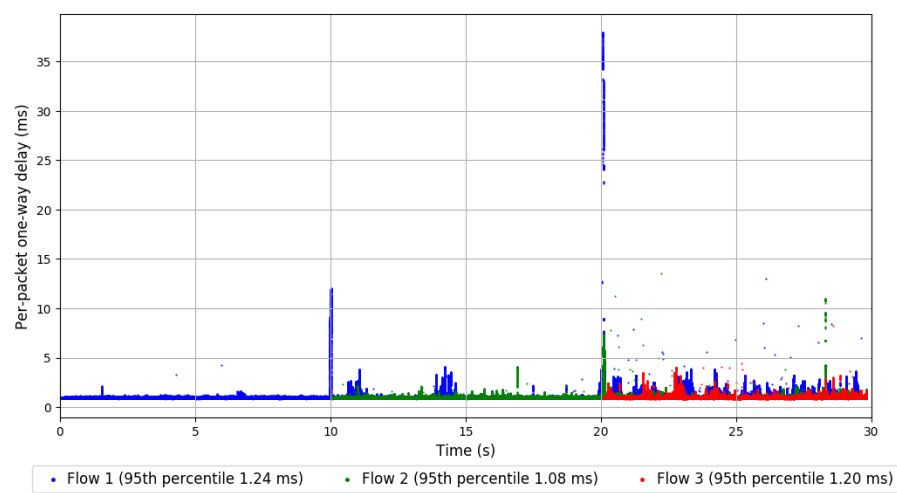
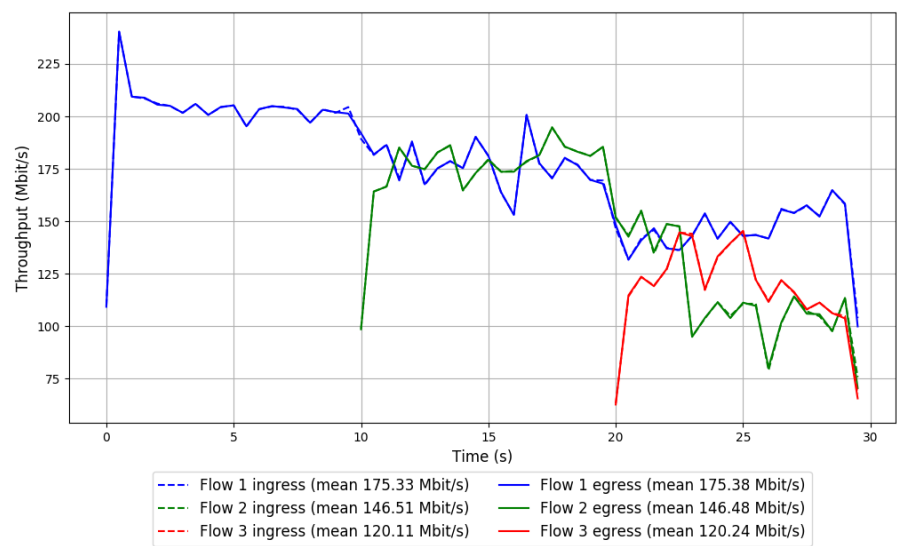


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 20:36:03  
End at: 2018-04-24 20:36:33  
Local clock offset: 0.394 ms  
Remote clock offset: -5.135 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 311.77 Mbit/s  
95th percentile per-packet one-way delay: 1.163 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 175.38 Mbit/s  
95th percentile per-packet one-way delay: 1.240 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 146.48 Mbit/s  
95th percentile per-packet one-way delay: 1.085 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 120.24 Mbit/s  
95th percentile per-packet one-way delay: 1.200 ms  
Loss rate: 0.14%

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

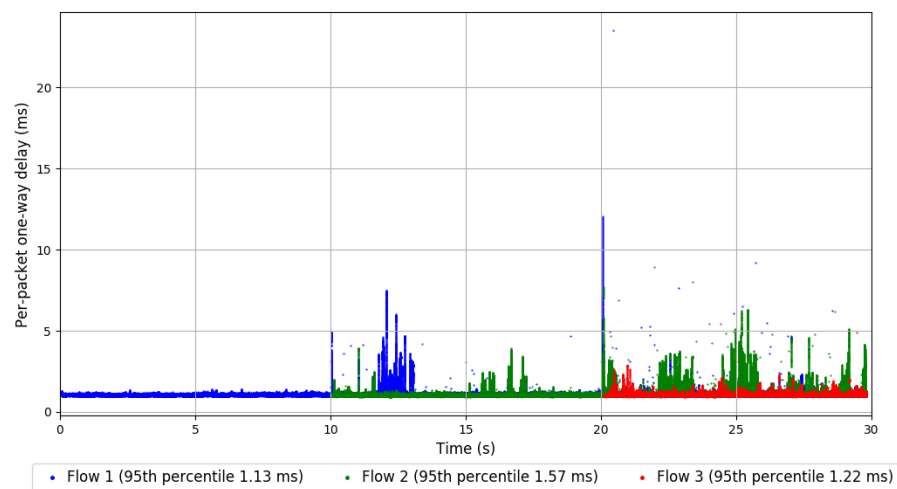
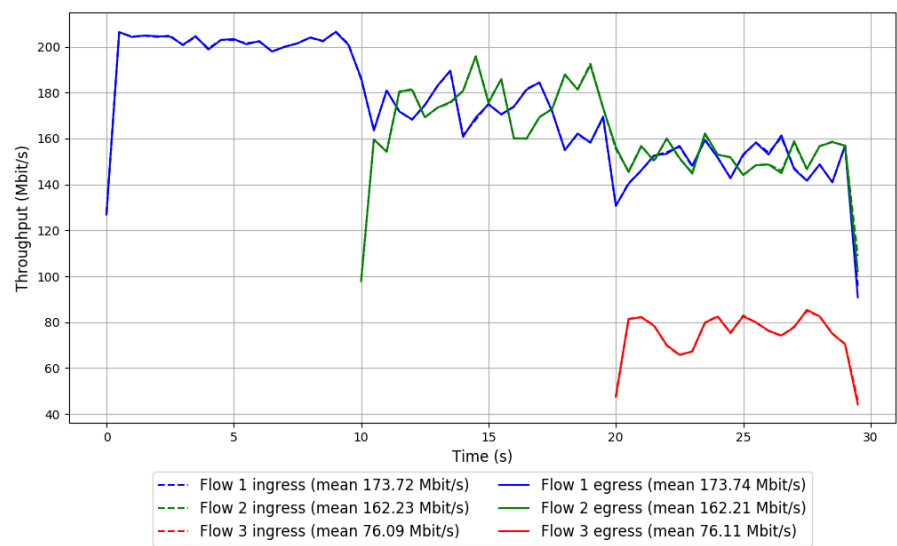


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 21:02:38  
End at: 2018-04-24 21:03:08  
Local clock offset: 0.436 ms  
Remote clock offset: -5.376 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 306.26 Mbit/s  
95th percentile per-packet one-way delay: 1.214 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 173.74 Mbit/s  
95th percentile per-packet one-way delay: 1.131 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 162.21 Mbit/s  
95th percentile per-packet one-way delay: 1.574 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 76.11 Mbit/s  
95th percentile per-packet one-way delay: 1.220 ms  
Loss rate: 0.14%

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



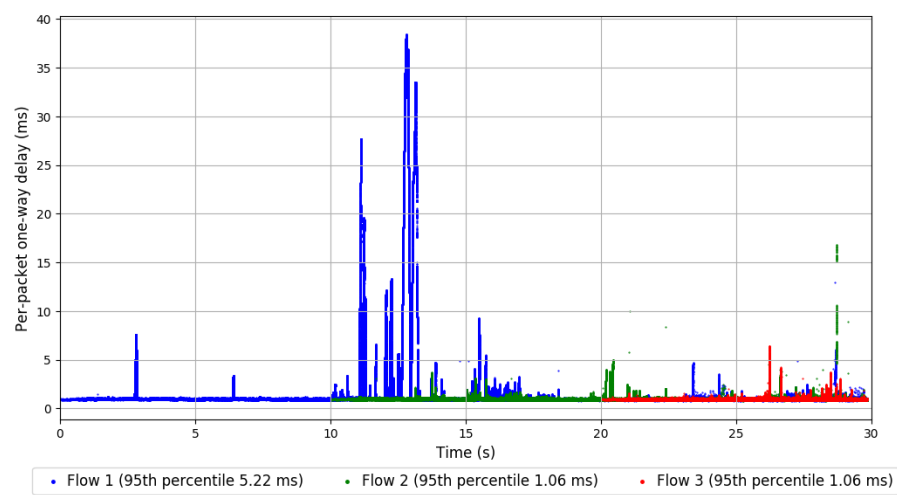
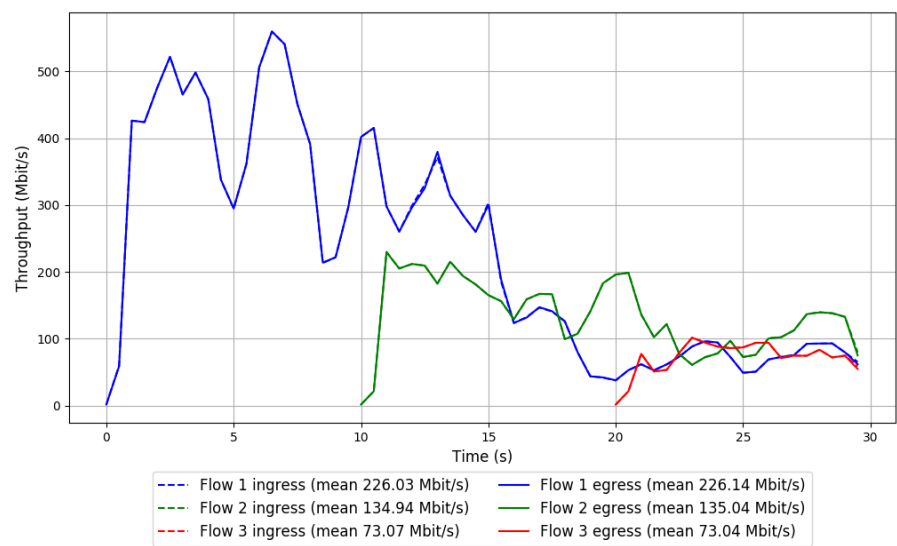


Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 17:22:14  
End at: 2018-04-24 17:22:44  
Local clock offset: 0.366 ms  
Remote clock offset: -4.999 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 339.81 Mbit/s  
95th percentile per-packet one-way delay: 2.129 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 226.14 Mbit/s  
95th percentile per-packet one-way delay: 5.216 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 135.04 Mbit/s  
95th percentile per-packet one-way delay: 1.062 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 73.04 Mbit/s  
95th percentile per-packet one-way delay: 1.063 ms  
Loss rate: 0.28%

Run 1: Report of PCC-Vivace — Data Link

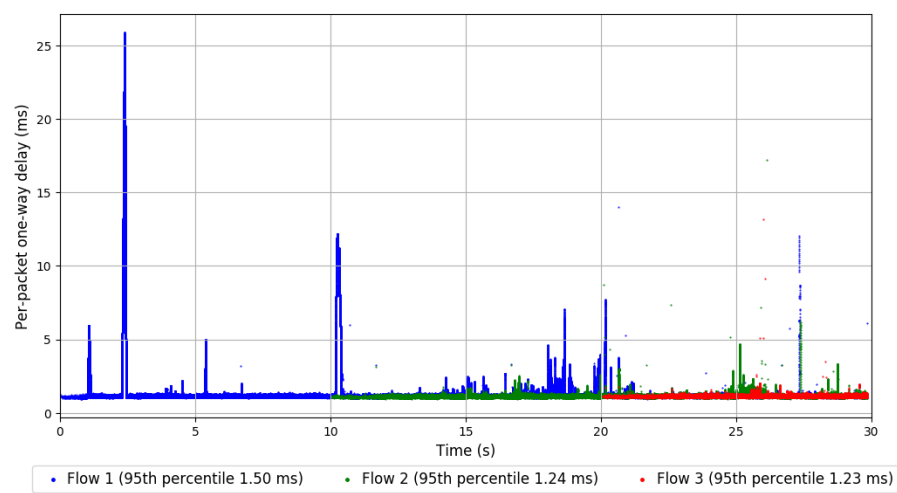
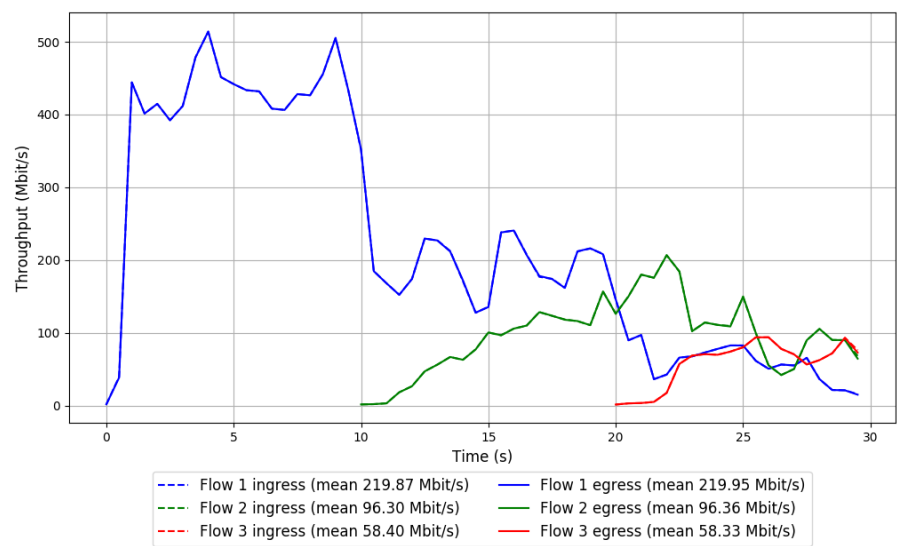


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 17:48:52  
End at: 2018-04-24 17:49:22  
Local clock offset: -0.033 ms  
Remote clock offset: -6.215 ms

# Below is generated by plot.py at 2018-04-25 04:04:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 303.08 Mbit/s  
95th percentile per-packet one-way delay: 1.315 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 219.95 Mbit/s  
95th percentile per-packet one-way delay: 1.502 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 96.36 Mbit/s  
95th percentile per-packet one-way delay: 1.236 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 58.33 Mbit/s  
95th percentile per-packet one-way delay: 1.225 ms  
Loss rate: 0.31%

Run 2: Report of PCC-Vivace — Data Link

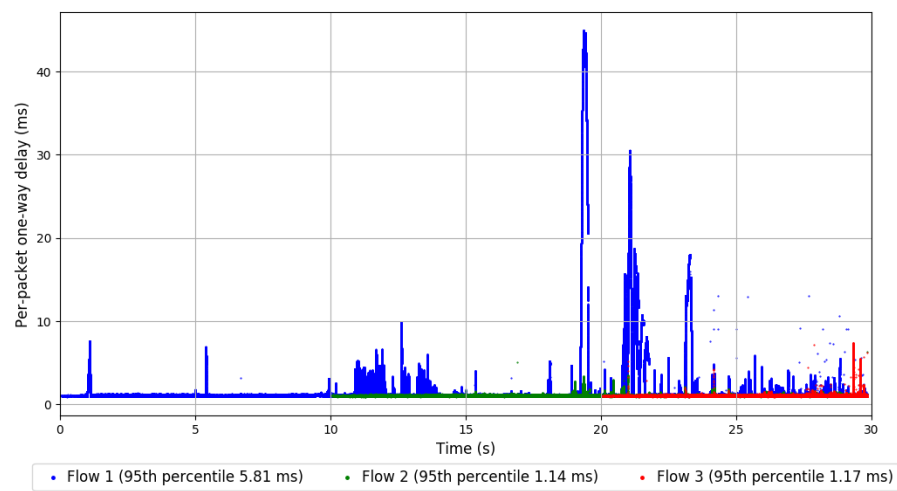
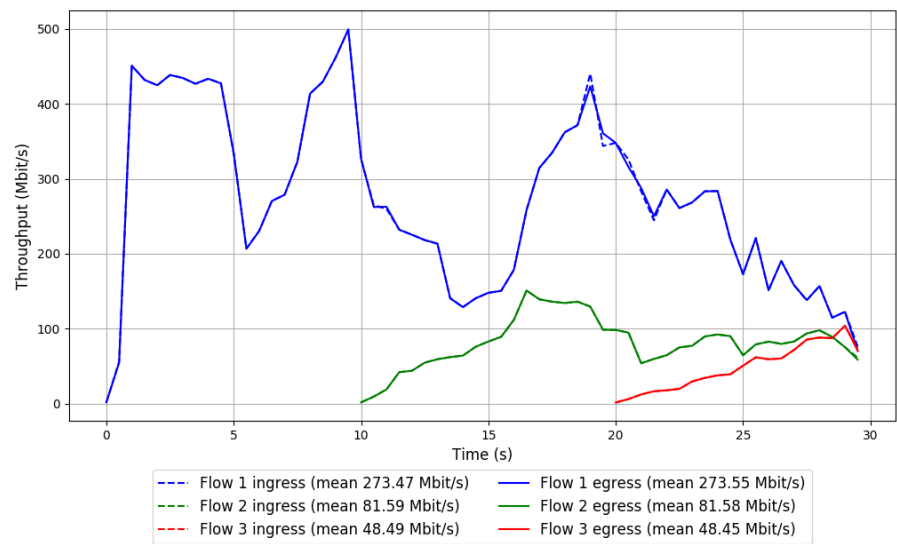


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 18:15:26  
End at: 2018-04-24 18:15:56  
Local clock offset: -0.996 ms  
Remote clock offset: -5.099 ms

# Below is generated by plot.py at 2018-04-25 04:05:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 343.64 Mbit/s  
95th percentile per-packet one-way delay: 4.049 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 273.55 Mbit/s  
95th percentile per-packet one-way delay: 5.808 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 81.58 Mbit/s  
95th percentile per-packet one-way delay: 1.138 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 48.45 Mbit/s  
95th percentile per-packet one-way delay: 1.169 ms  
Loss rate: 0.32%

Run 3: Report of PCC-Vivace — Data Link

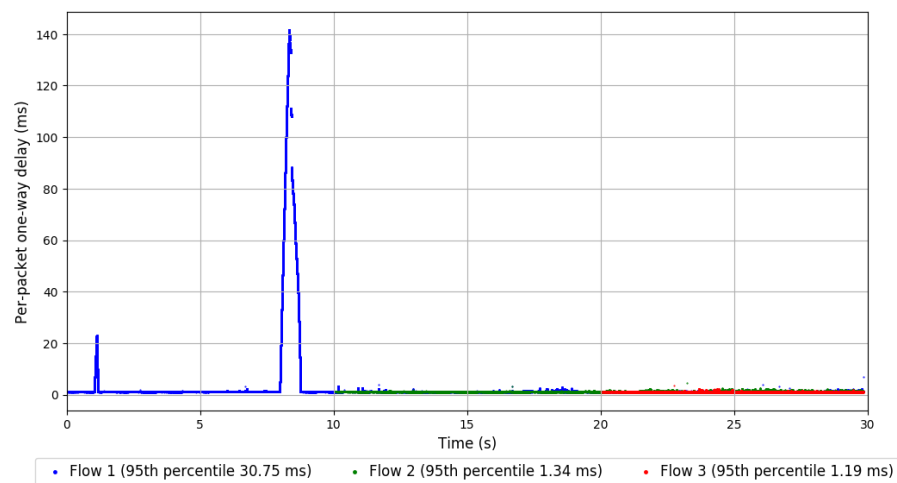
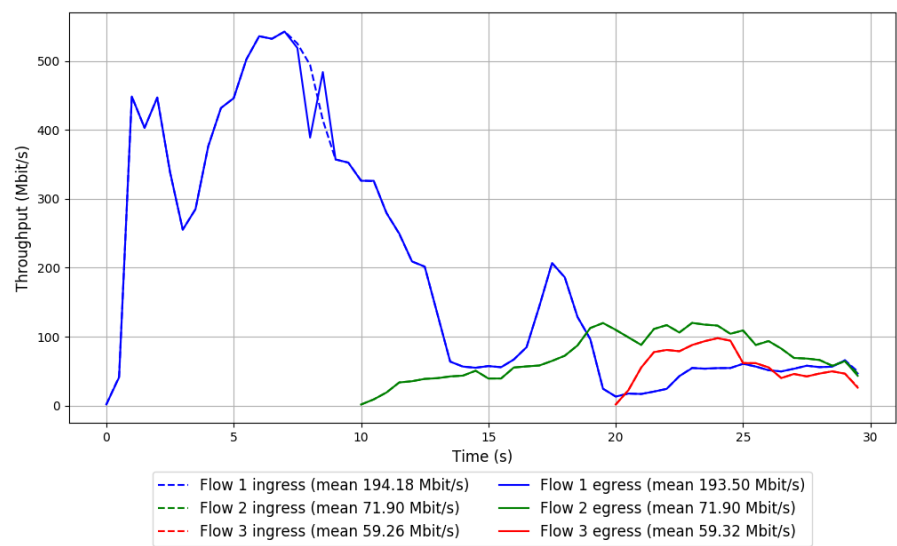


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 18:41:48  
End at: 2018-04-24 18:42:18  
Local clock offset: -1.822 ms  
Remote clock offset: -6.106 ms

# Below is generated by plot.py at 2018-04-25 04:05:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 260.72 Mbit/s  
95th percentile per-packet one-way delay: 8.173 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 193.50 Mbit/s  
95th percentile per-packet one-way delay: 30.749 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 71.90 Mbit/s  
95th percentile per-packet one-way delay: 1.338 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 59.32 Mbit/s  
95th percentile per-packet one-way delay: 1.189 ms  
Loss rate: 0.10%

Run 4: Report of PCC-Vivace — Data Link



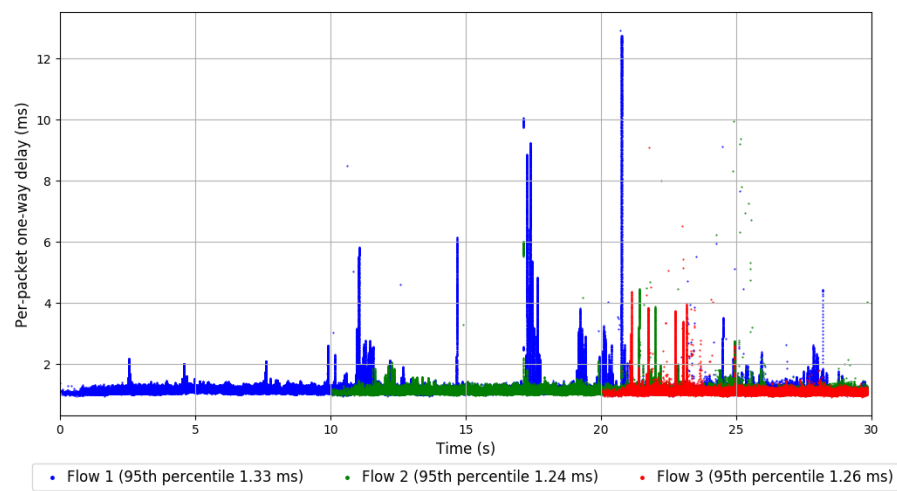
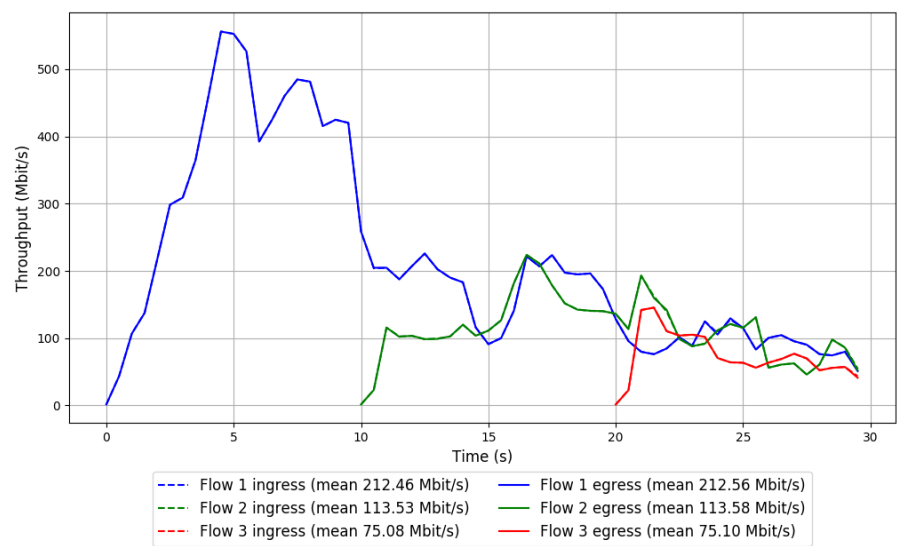


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 19:08:30  
End at: 2018-04-24 19:09:00  
Local clock offset: 0.639 ms  
Remote clock offset: -6.294 ms

# Below is generated by plot.py at 2018-04-25 04:06:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 312.65 Mbit/s  
95th percentile per-packet one-way delay: 1.294 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 212.56 Mbit/s  
95th percentile per-packet one-way delay: 1.326 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 113.58 Mbit/s  
95th percentile per-packet one-way delay: 1.239 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 75.10 Mbit/s  
95th percentile per-packet one-way delay: 1.257 ms  
Loss rate: 0.17%

Run 5: Report of PCC-Vivace — Data Link

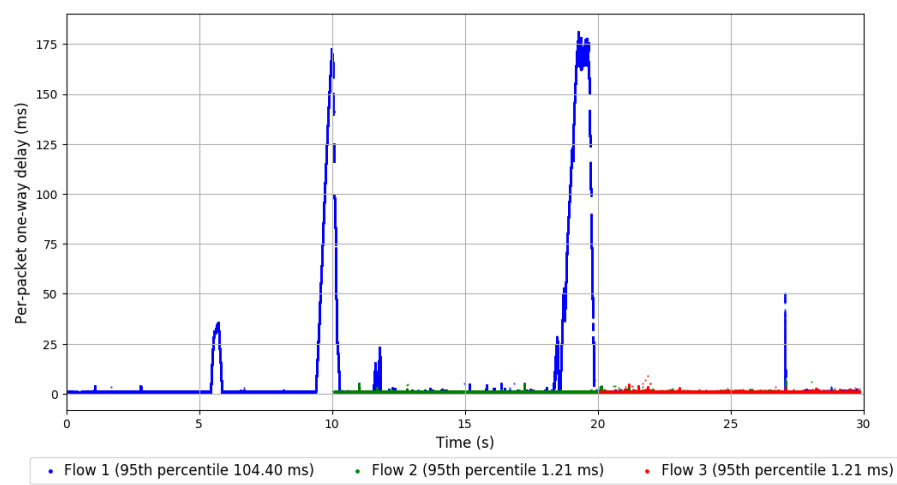
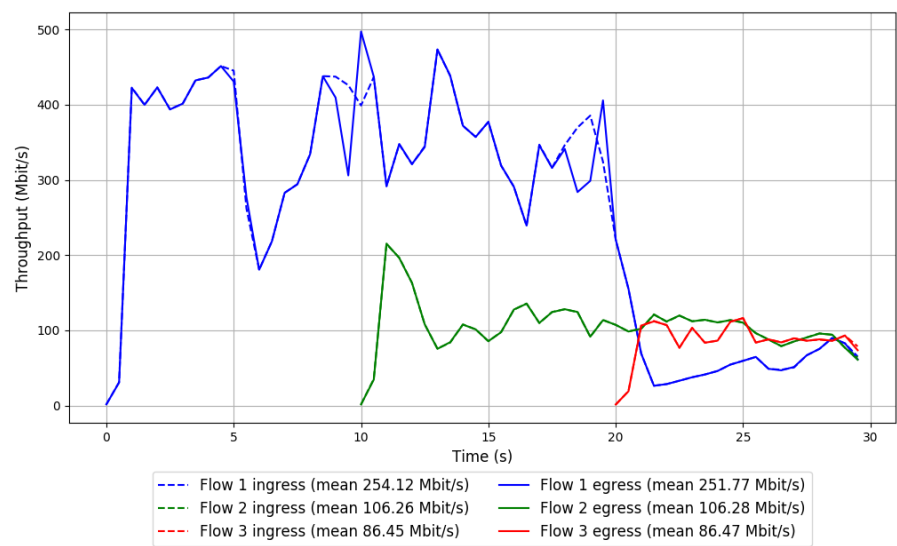


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 19:35:08  
End at: 2018-04-24 19:35:38  
Local clock offset: 0.79 ms  
Remote clock offset: -6.111 ms

# Below is generated by plot.py at 2018-04-25 04:06:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 350.77 Mbit/s  
95th percentile per-packet one-way delay: 61.148 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 251.77 Mbit/s  
95th percentile per-packet one-way delay: 104.402 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 106.28 Mbit/s  
95th percentile per-packet one-way delay: 1.205 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 86.47 Mbit/s  
95th percentile per-packet one-way delay: 1.208 ms  
Loss rate: 0.31%

Run 6: Report of PCC-Vivace — Data Link

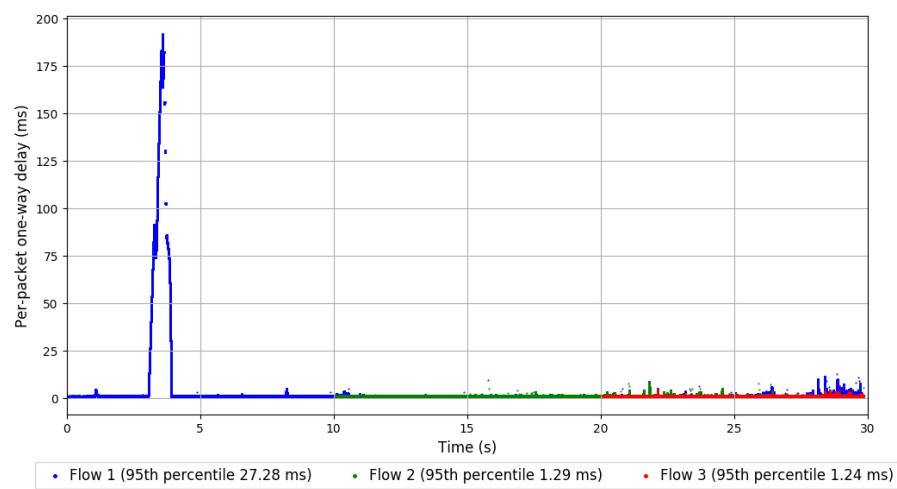
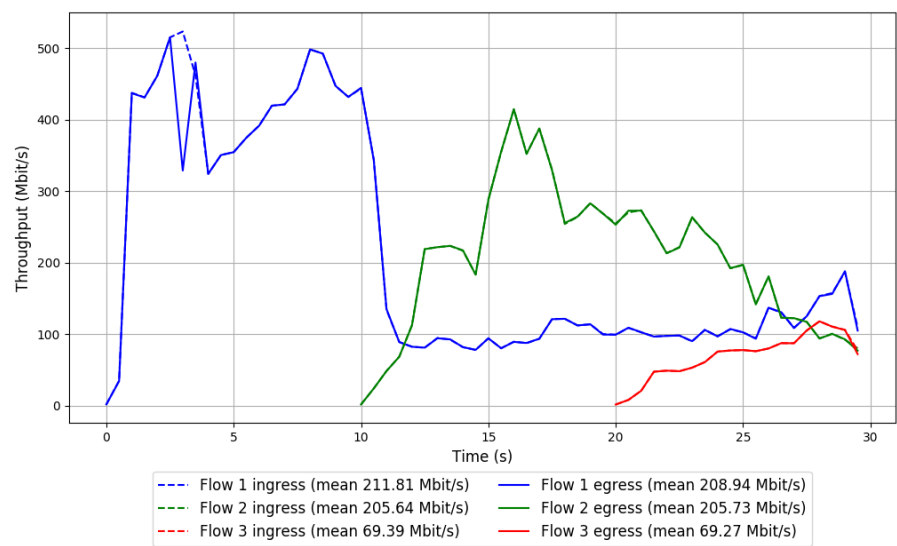


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 20:01:44  
End at: 2018-04-24 20:02:14  
Local clock offset: 0.619 ms  
Remote clock offset: -5.311 ms

# Below is generated by plot.py at 2018-04-25 04:07:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 368.35 Mbit/s  
95th percentile per-packet one-way delay: 2.324 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 208.94 Mbit/s  
95th percentile per-packet one-way delay: 27.278 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 205.73 Mbit/s  
95th percentile per-packet one-way delay: 1.290 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 69.27 Mbit/s  
95th percentile per-packet one-way delay: 1.236 ms  
Loss rate: 0.39%

Run 7: Report of PCC-Vivace — Data Link

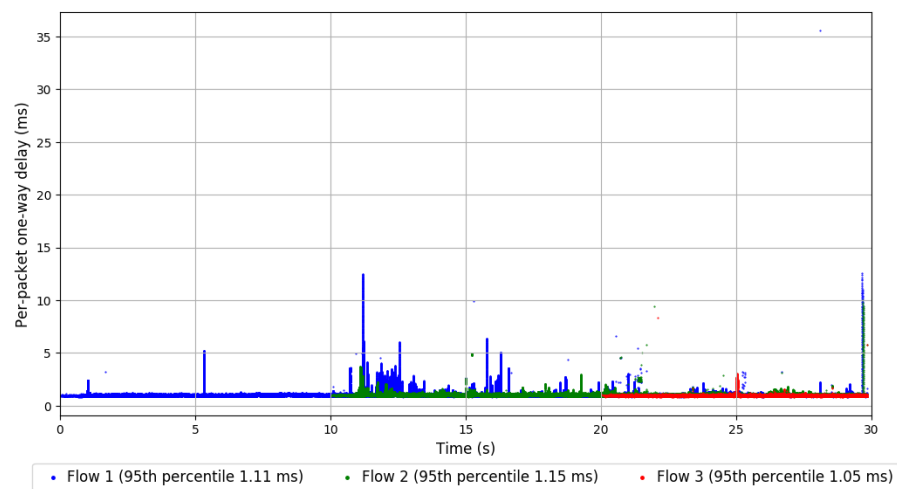
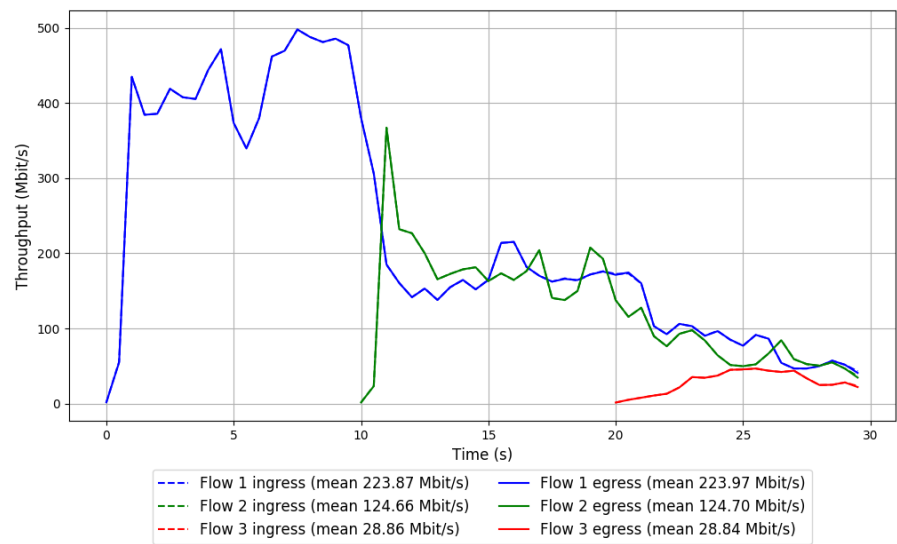


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 20:28:14  
End at: 2018-04-24 20:28:44  
Local clock offset: 0.361 ms  
Remote clock offset: -5.227 ms

# Below is generated by plot.py at 2018-04-25 04:07:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 316.23 Mbit/s  
95th percentile per-packet one-way delay: 1.120 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 223.97 Mbit/s  
95th percentile per-packet one-way delay: 1.111 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 124.70 Mbit/s  
95th percentile per-packet one-way delay: 1.148 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 28.84 Mbit/s  
95th percentile per-packet one-way delay: 1.051 ms  
Loss rate: 0.24%

Run 8: Report of PCC-Vivace — Data Link



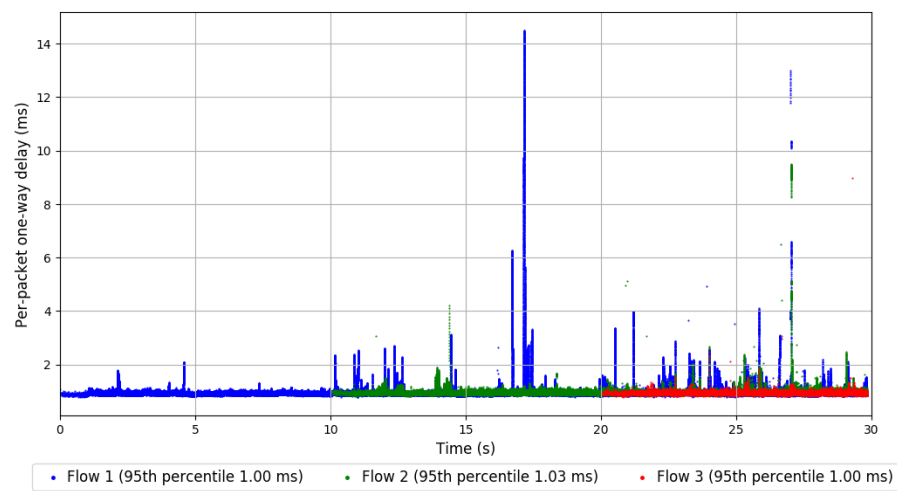
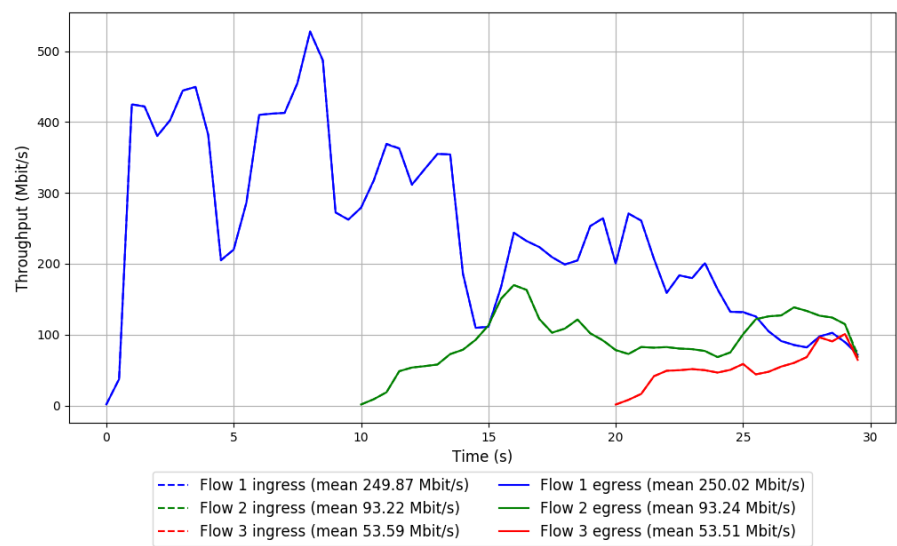


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 20:54:44  
End at: 2018-04-24 20:55:14  
Local clock offset: 0.484 ms  
Remote clock offset: -5.271 ms

# Below is generated by plot.py at 2018-04-25 04:07:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 329.49 Mbit/s  
95th percentile per-packet one-way delay: 1.009 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 250.02 Mbit/s  
95th percentile per-packet one-way delay: 0.996 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 93.24 Mbit/s  
95th percentile per-packet one-way delay: 1.035 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 53.51 Mbit/s  
95th percentile per-packet one-way delay: 1.003 ms  
Loss rate: 0.33%

Run 9: Report of PCC-Vivace — Data Link

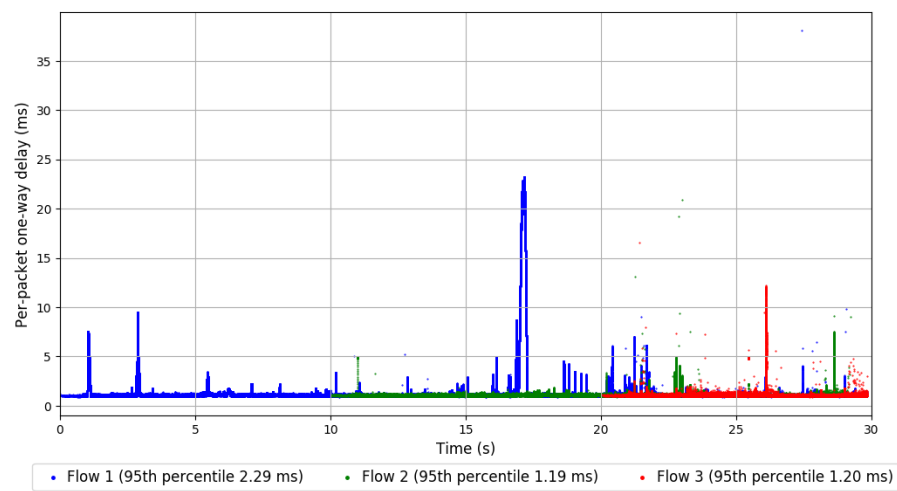
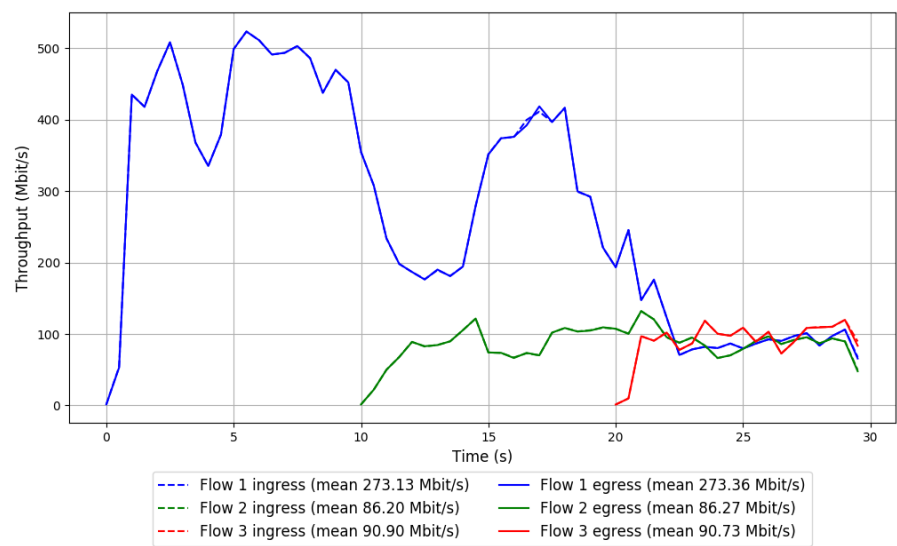


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 21:21:26  
End at: 2018-04-24 21:21:56  
Local clock offset: 0.292 ms  
Remote clock offset: -5.401 ms

# Below is generated by plot.py at 2018-04-25 04:07:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 360.38 Mbit/s  
95th percentile per-packet one-way delay: 1.744 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 273.36 Mbit/s  
95th percentile per-packet one-way delay: 2.285 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 86.27 Mbit/s  
95th percentile per-packet one-way delay: 1.188 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 90.73 Mbit/s  
95th percentile per-packet one-way delay: 1.195 ms  
Loss rate: 0.36%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 17:02:05

End at: 2018-04-24 17:02:35

Local clock offset: 0.2 ms

Remote clock offset: -5.143 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 17:28:45

End at: 2018-04-24 17:29:15

Local clock offset: 0.487 ms

Remote clock offset: -5.679 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 17:55:24

End at: 2018-04-24 17:55:54

Local clock offset: -0.24 ms

Remote clock offset: -6.085 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 18:21:58

End at: 2018-04-24 18:22:28

Local clock offset: -1.296 ms

Remote clock offset: -5.045 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 18:48:18

End at: 2018-04-24 18:48:48

Local clock offset: -0.821 ms

Remote clock offset: -6.303 ms

Run 5: Report of PCC-Expr — Data Link

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Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 19:15:04

End at: 2018-04-24 19:15:34

Local clock offset: 0.862 ms

Remote clock offset: -6.056 ms

Run 6: Report of PCC-Expr — Data Link

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Figure is missing



Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 19:41:43

End at: 2018-04-24 19:42:13

Local clock offset: 0.943 ms

Remote clock offset: -5.773 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

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Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 20:08:15

End at: 2018-04-24 20:08:45

Local clock offset: 0.501 ms

Remote clock offset: -5.137 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 20:34:45

End at: 2018-04-24 20:35:15

Local clock offset: 0.46 ms

Remote clock offset: -5.203 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 21:01:20

End at: 2018-04-24 21:01:50

Local clock offset: 0.573 ms

Remote clock offset: -5.311 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing