

Pantheon Report

Generated at 2018-04-18 00:15:08 (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**).

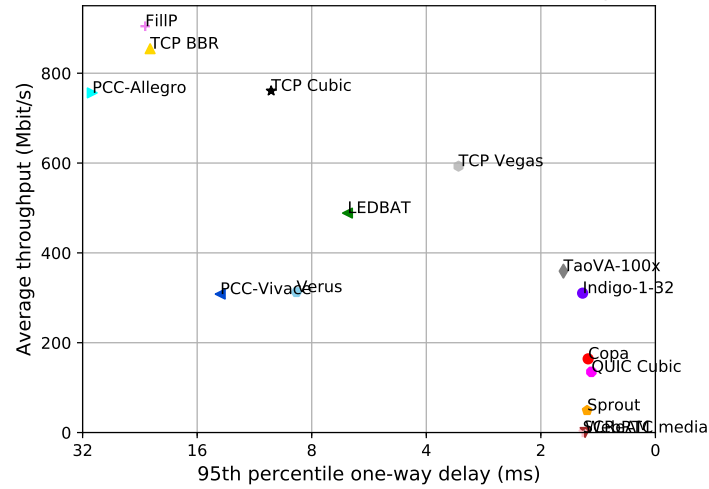
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

Git summary:

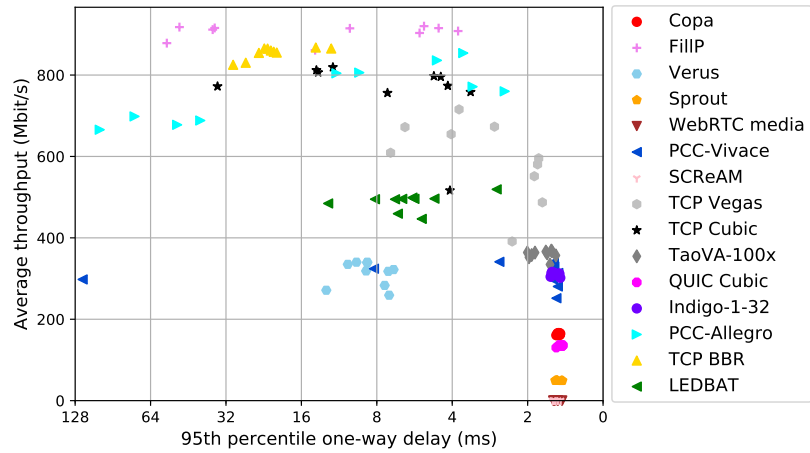
```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
```

third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581

test from 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



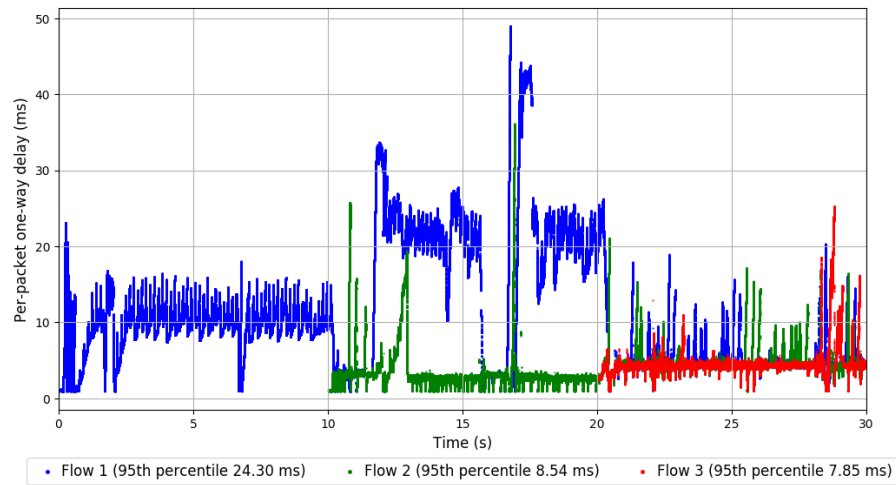
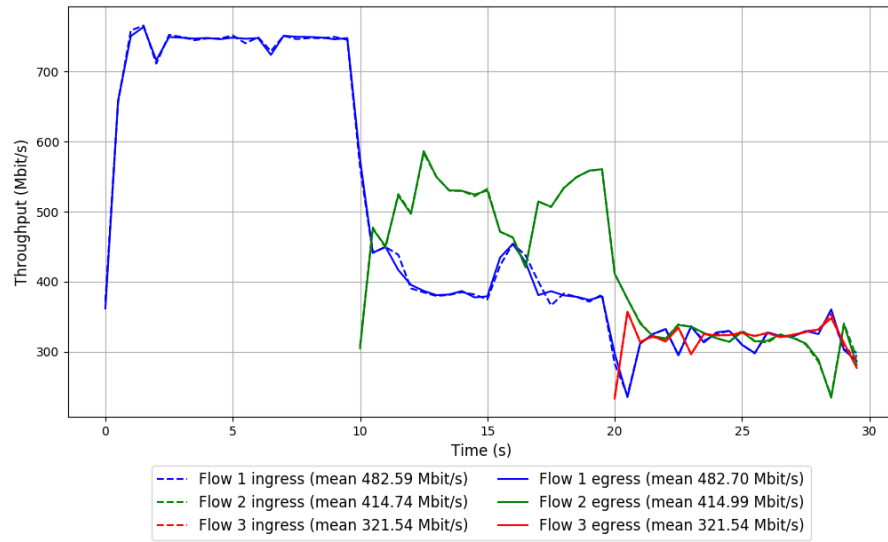
[illegible]

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 13:04:09
End at: 2018-04-17 13:04:39
Local clock offset: 0.312 ms
Remote clock offset: -5.579 ms

Below is generated by plot.py at 2018-04-17 22:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 865.29 Mbit/s
95th percentile per-packet one-way delay: 22.494 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 482.70 Mbit/s
95th percentile per-packet one-way delay: 24.296 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 414.99 Mbit/s
95th percentile per-packet one-way delay: 8.536 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 321.54 Mbit/s
95th percentile per-packet one-way delay: 7.851 ms
Loss rate: 0.23%

Run 1: Report of TCP BBR — Data Link

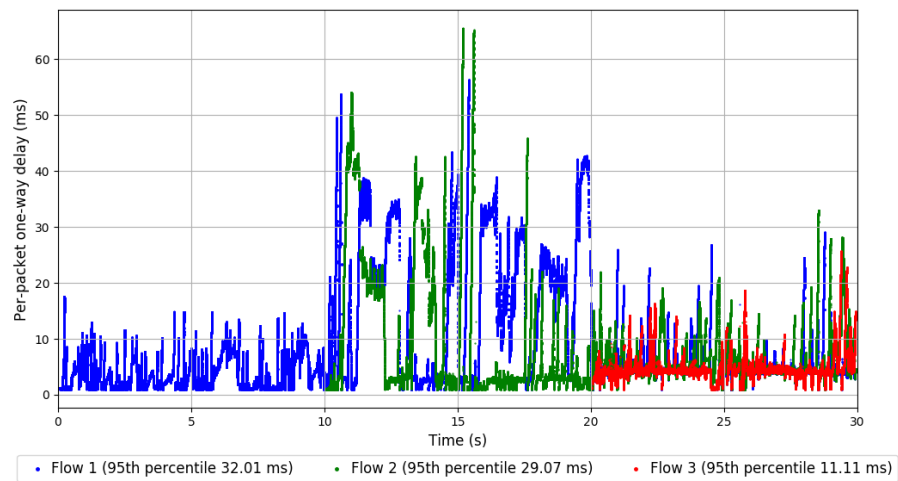
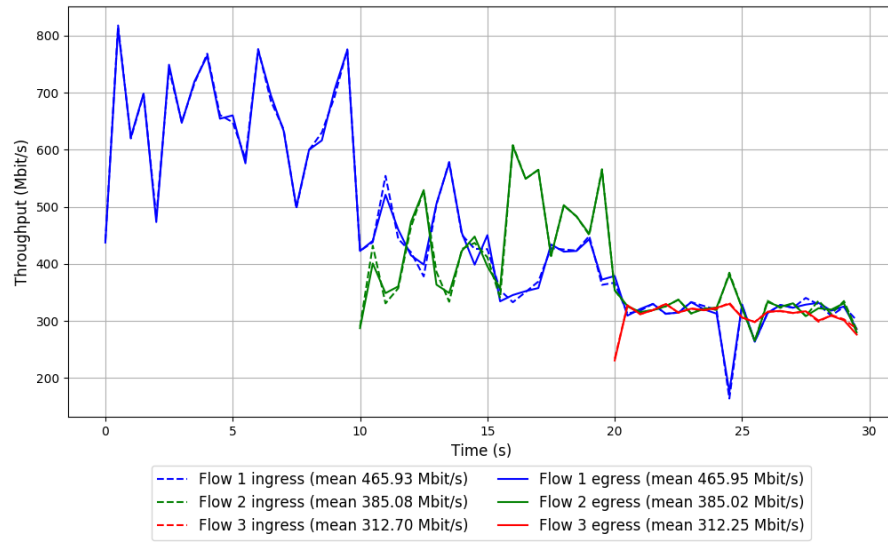


Run 2: Statistics of TCP BBR

Start at: 2018-04-17 13:30:45
End at: 2018-04-17 13:31:15
Local clock offset: 0.231 ms
Remote clock offset: -4.879 ms

Below is generated by plot.py at 2018-04-17 22:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 825.27 Mbit/s
95th percentile per-packet one-way delay: 29.957 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 465.95 Mbit/s
95th percentile per-packet one-way delay: 32.012 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 385.02 Mbit/s
95th percentile per-packet one-way delay: 29.065 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 312.25 Mbit/s
95th percentile per-packet one-way delay: 11.105 ms
Loss rate: 0.21%

Run 2: Report of TCP BBR — Data Link

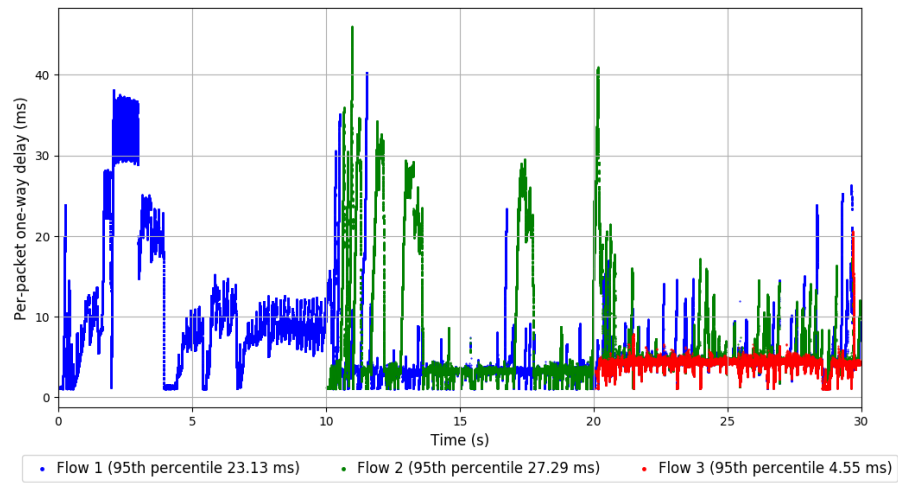
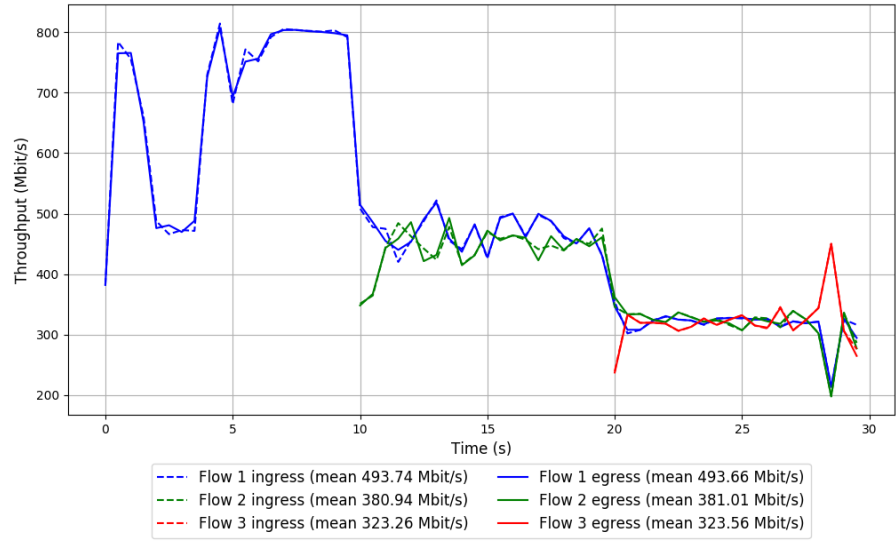


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 13:57:25
End at: 2018-04-17 13:57:55
Local clock offset: 0.171 ms
Remote clock offset: -4.984 ms

Below is generated by plot.py at 2018-04-17 22:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 854.46 Mbit/s
95th percentile per-packet one-way delay: 23.648 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 493.66 Mbit/s
95th percentile per-packet one-way delay: 23.129 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 381.01 Mbit/s
95th percentile per-packet one-way delay: 27.291 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 323.56 Mbit/s
95th percentile per-packet one-way delay: 4.546 ms
Loss rate: 0.21%

Run 3: Report of TCP BBR — Data Link

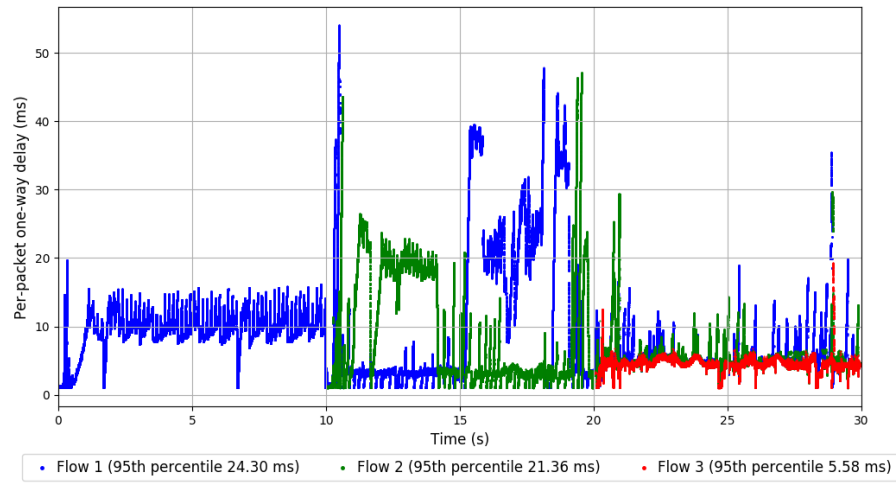
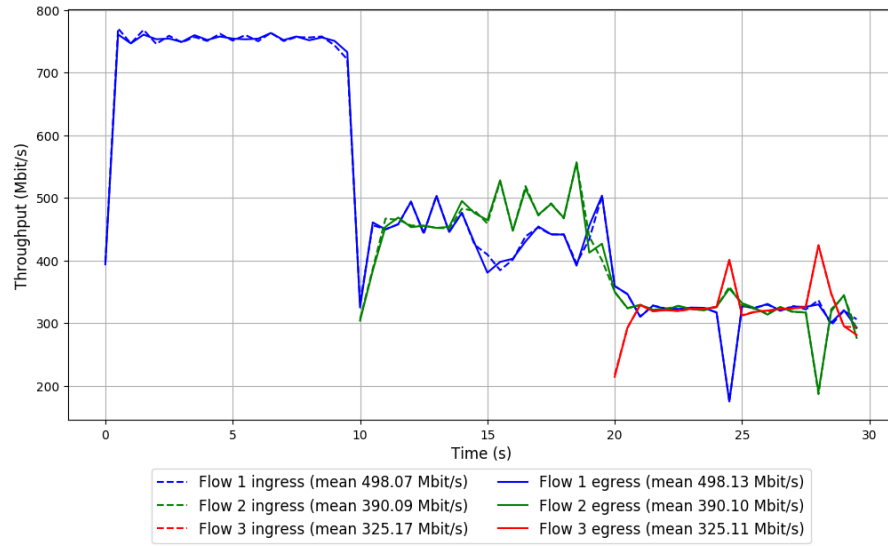


Run 4: Statistics of TCP BBR

Start at: 2018-04-17 14:24:00
End at: 2018-04-17 14:24:30
Local clock offset: 0.433 ms
Remote clock offset: -5.346 ms

Below is generated by plot.py at 2018-04-17 22:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 864.99 Mbit/s
95th percentile per-packet one-way delay: 21.832 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 498.13 Mbit/s
95th percentile per-packet one-way delay: 24.296 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 390.10 Mbit/s
95th percentile per-packet one-way delay: 21.357 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 325.11 Mbit/s
95th percentile per-packet one-way delay: 5.582 ms
Loss rate: 0.23%

Run 4: Report of TCP BBR — Data Link

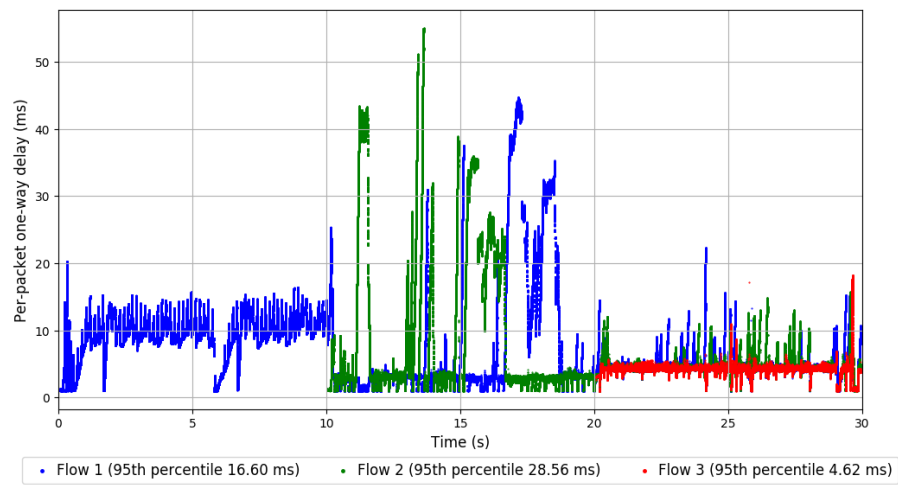
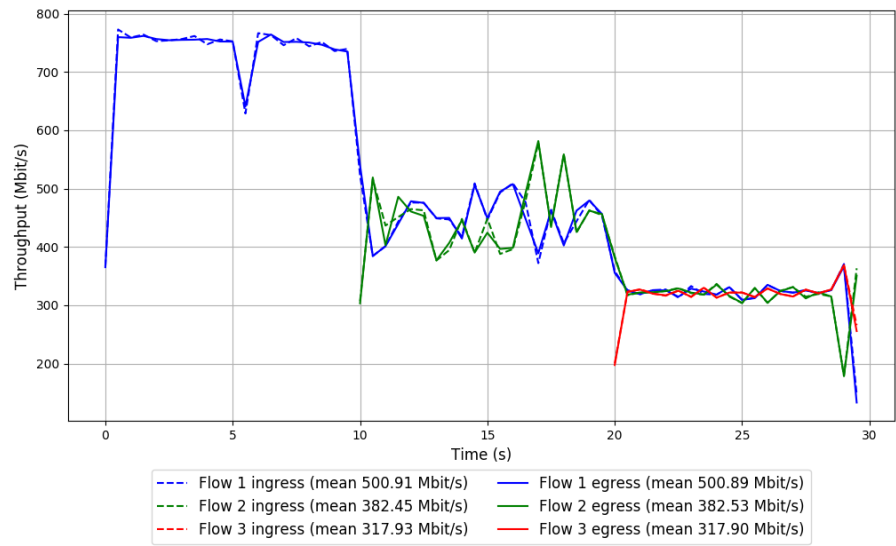


Run 5: Statistics of TCP BBR

Start at: 2018-04-17 14:50:33
End at: 2018-04-17 14:51:03
Local clock offset: 0.182 ms
Remote clock offset: -5.497 ms

Below is generated by plot.py at 2018-04-17 22:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 860.30 Mbit/s
95th percentile per-packet one-way delay: 21.188 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 500.89 Mbit/s
95th percentile per-packet one-way delay: 16.602 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 382.53 Mbit/s
95th percentile per-packet one-way delay: 28.558 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 317.90 Mbit/s
95th percentile per-packet one-way delay: 4.618 ms
Loss rate: 0.20%

Run 5: Report of TCP BBR — Data Link

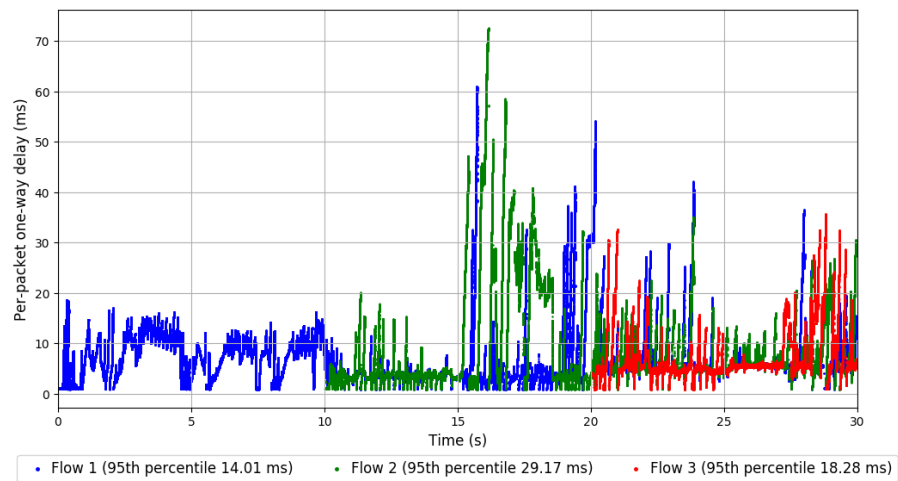
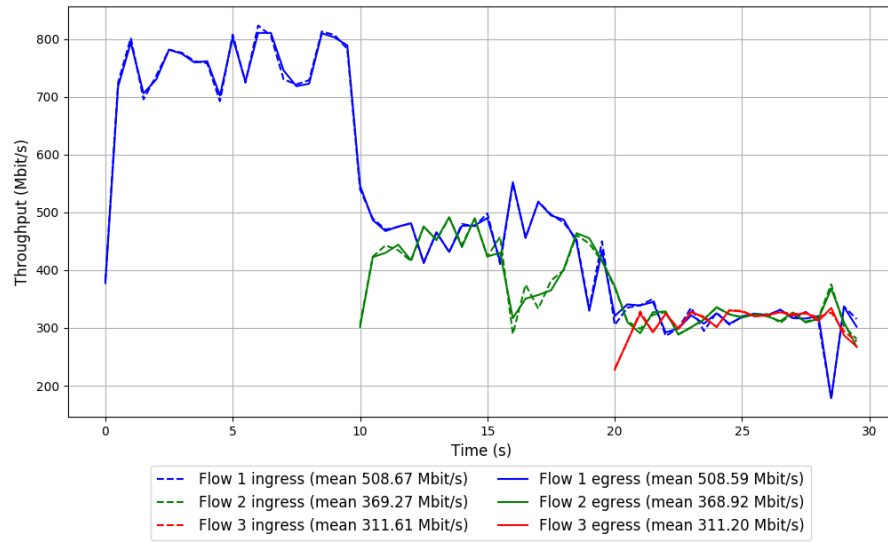


Run 6: Statistics of TCP BBR

Start at: 2018-04-17 15:17:01
End at: 2018-04-17 15:17:31
Local clock offset: 0.088 ms
Remote clock offset: -5.871 ms

Below is generated by plot.py at 2018-04-17 22:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 857.27 Mbit/s
95th percentile per-packet one-way delay: 20.636 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 508.59 Mbit/s
95th percentile per-packet one-way delay: 14.009 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 368.92 Mbit/s
95th percentile per-packet one-way delay: 29.168 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 311.20 Mbit/s
95th percentile per-packet one-way delay: 18.282 ms
Loss rate: 0.36%

Run 6: Report of TCP BBR — Data Link

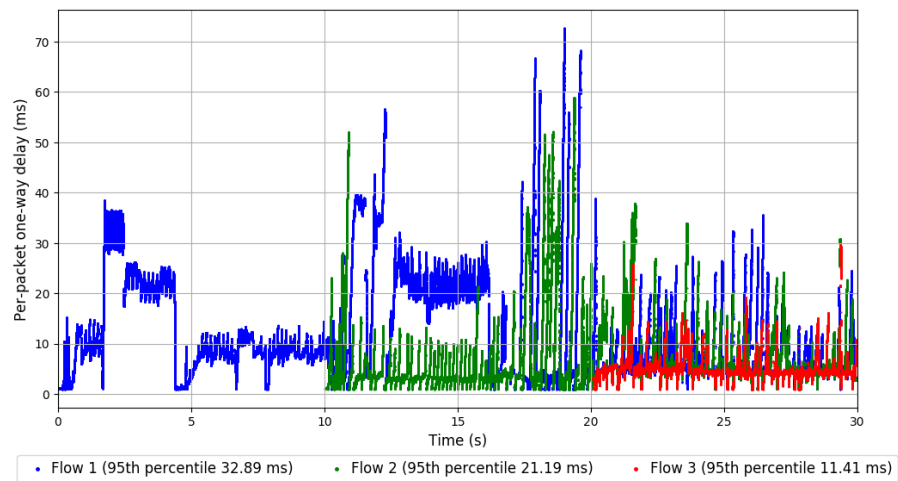
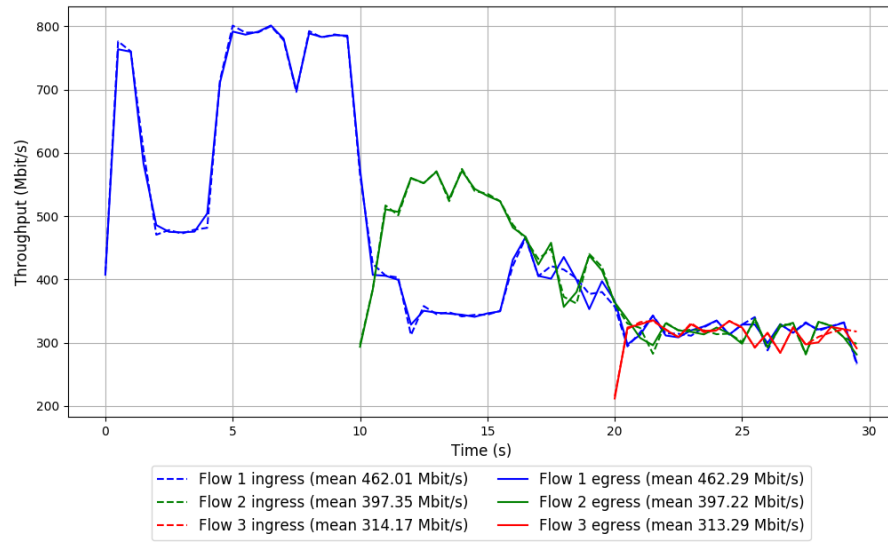


Run 7: Statistics of TCP BBR

Start at: 2018-04-17 15:43:41
End at: 2018-04-17 15:44:11
Local clock offset: 0.107 ms
Remote clock offset: -6.706 ms

Below is generated by plot.py at 2018-04-17 22:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 830.30 Mbit/s
95th percentile per-packet one-way delay: 26.684 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 462.29 Mbit/s
95th percentile per-packet one-way delay: 32.891 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 397.22 Mbit/s
95th percentile per-packet one-way delay: 21.190 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 313.29 Mbit/s
95th percentile per-packet one-way delay: 11.415 ms
Loss rate: 0.48%

Run 7: Report of TCP BBR — Data Link

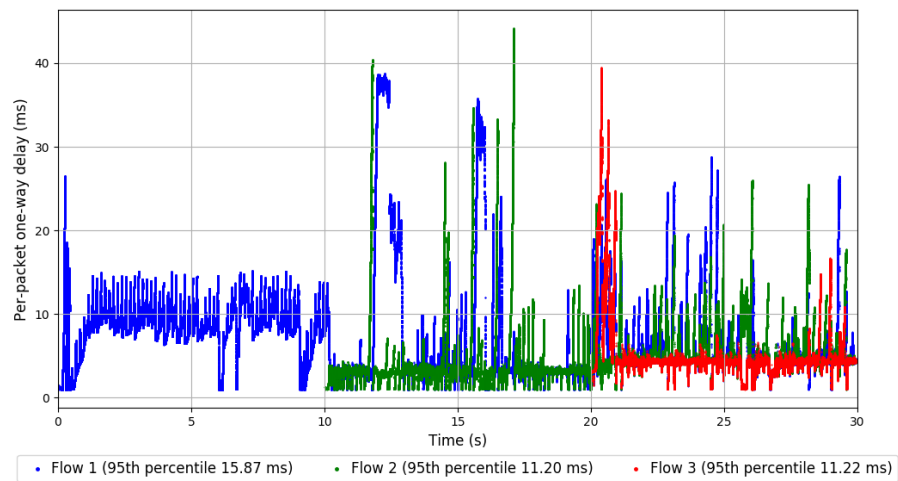
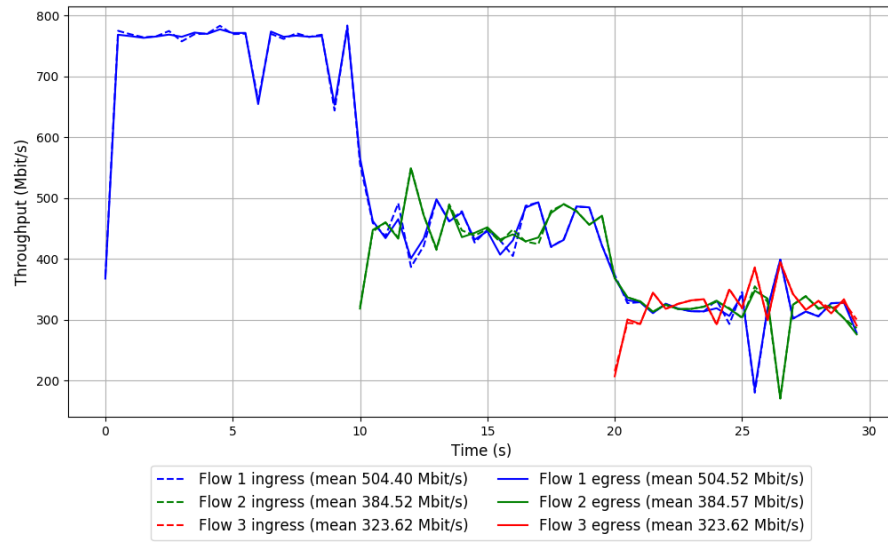


Run 8: Statistics of TCP BBR

Start at: 2018-04-17 16:10:22
End at: 2018-04-17 16:10:52
Local clock offset: 0.321 ms
Remote clock offset: -6.833 ms

Below is generated by plot.py at 2018-04-17 22:22:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 867.66 Mbit/s
95th percentile per-packet one-way delay: 14.018 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 504.52 Mbit/s
95th percentile per-packet one-way delay: 15.867 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 384.57 Mbit/s
95th percentile per-packet one-way delay: 11.203 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 323.62 Mbit/s
95th percentile per-packet one-way delay: 11.217 ms
Loss rate: 0.24%

Run 8: Report of TCP BBR — Data Link

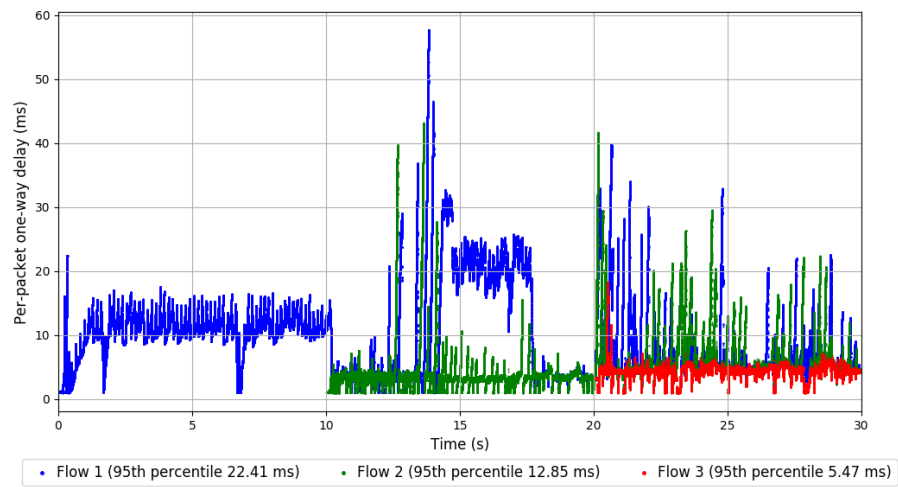
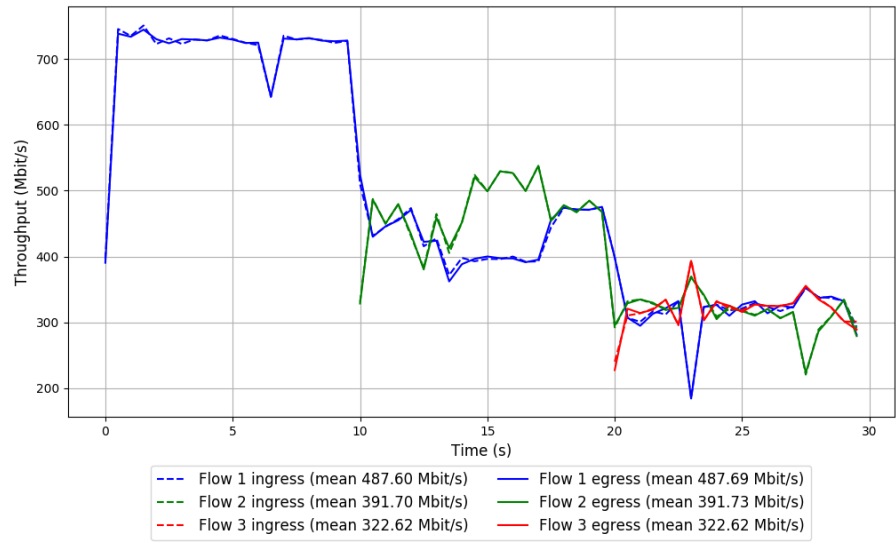


Run 9: Statistics of TCP BBR

Start at: 2018-04-17 16:37:01
End at: 2018-04-17 16:37:31
Local clock offset: -0.144 ms
Remote clock offset: -6.589 ms

Below is generated by plot.py at 2018-04-17 22:34:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 855.26 Mbit/s
95th percentile per-packet one-way delay: 20.070 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 487.69 Mbit/s
95th percentile per-packet one-way delay: 22.406 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 391.73 Mbit/s
95th percentile per-packet one-way delay: 12.853 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 322.62 Mbit/s
95th percentile per-packet one-way delay: 5.475 ms
Loss rate: 0.24%

Run 9: Report of TCP BBR — Data Link

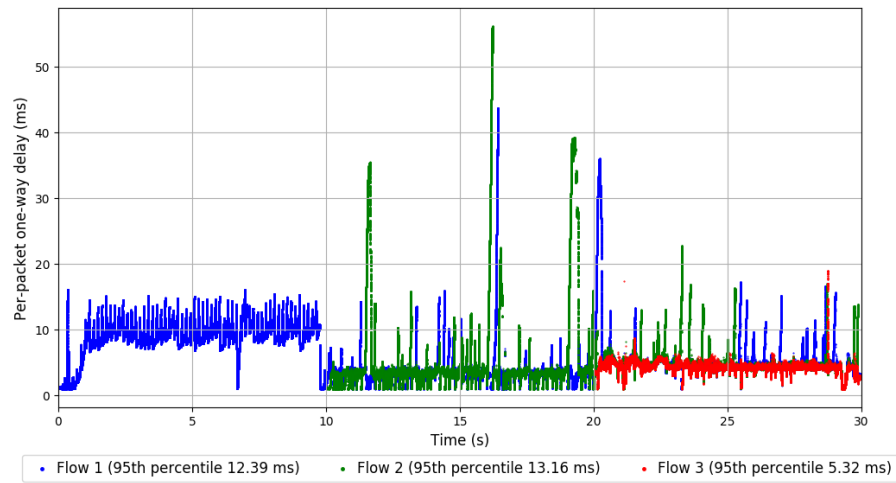
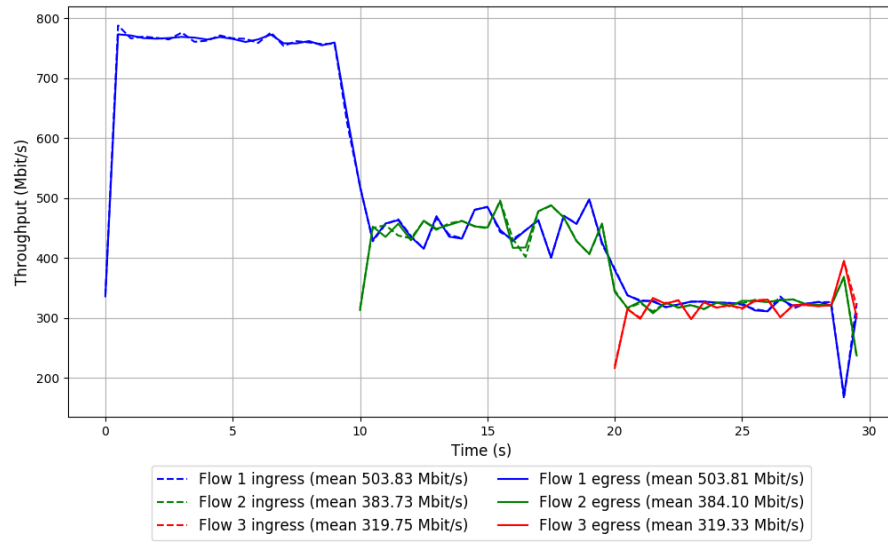


Run 10: Statistics of TCP BBR

Start at: 2018-04-17 17:03:37
End at: 2018-04-17 17:04:07
Local clock offset: -0.077 ms
Remote clock offset: -6.339 ms

Below is generated by plot.py at 2018-04-17 22:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 865.23 Mbit/s
95th percentile per-packet one-way delay: 12.164 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 503.81 Mbit/s
95th percentile per-packet one-way delay: 12.391 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 384.10 Mbit/s
95th percentile per-packet one-way delay: 13.157 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 319.33 Mbit/s
95th percentile per-packet one-way delay: 5.320 ms
Loss rate: 0.35%

Run 10: Report of TCP BBR — Data Link

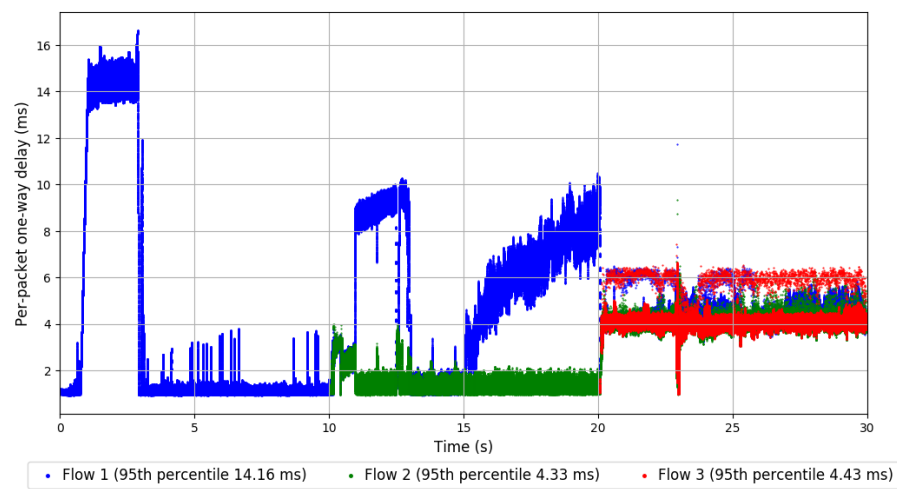
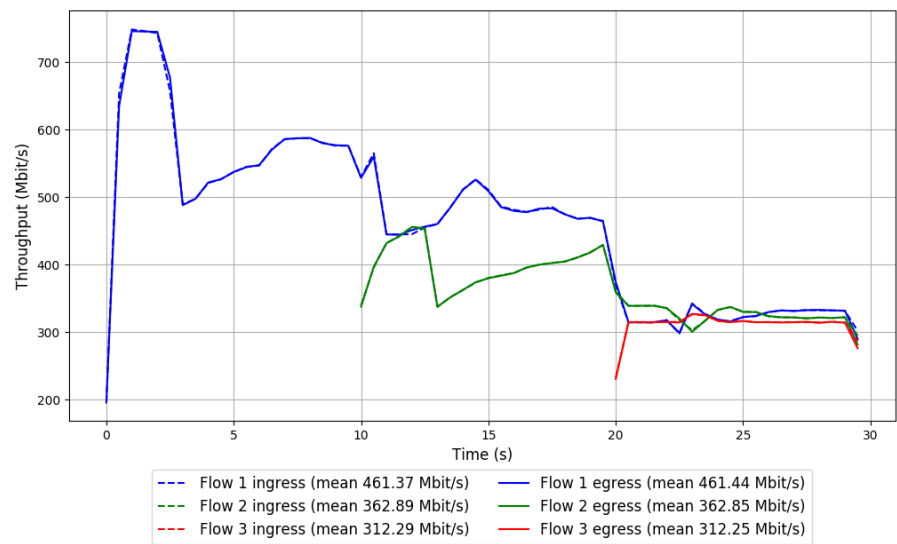


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 13:21:18
End at: 2018-04-17 13:21:48
Local clock offset: 0.431 ms
Remote clock offset: -5.085 ms

Below is generated by plot.py at 2018-04-17 22:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 806.48 Mbit/s
95th percentile per-packet one-way delay: 13.716 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 461.44 Mbit/s
95th percentile per-packet one-way delay: 14.162 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 362.85 Mbit/s
95th percentile per-packet one-way delay: 4.332 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 312.25 Mbit/s
95th percentile per-packet one-way delay: 4.435 ms
Loss rate: 0.22%

Run 1: Report of TCP Cubic — Data Link

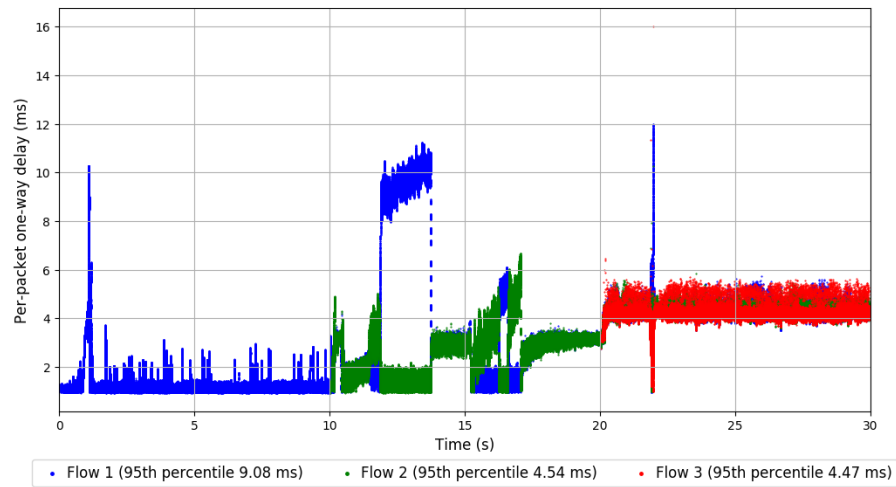
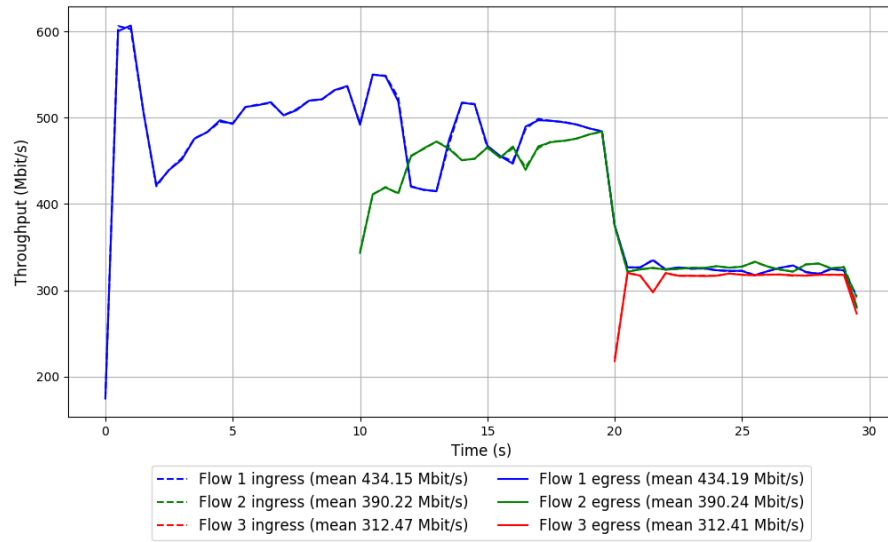


Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 13:47:58
End at: 2018-04-17 13:48:28
Local clock offset: 0.053 ms
Remote clock offset: -5.083 ms

Below is generated by plot.py at 2018-04-17 22:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 797.41 Mbit/s
95th percentile per-packet one-way delay: 4.735 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 434.19 Mbit/s
95th percentile per-packet one-way delay: 9.079 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 390.24 Mbit/s
95th percentile per-packet one-way delay: 4.540 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 312.41 Mbit/s
95th percentile per-packet one-way delay: 4.473 ms
Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link

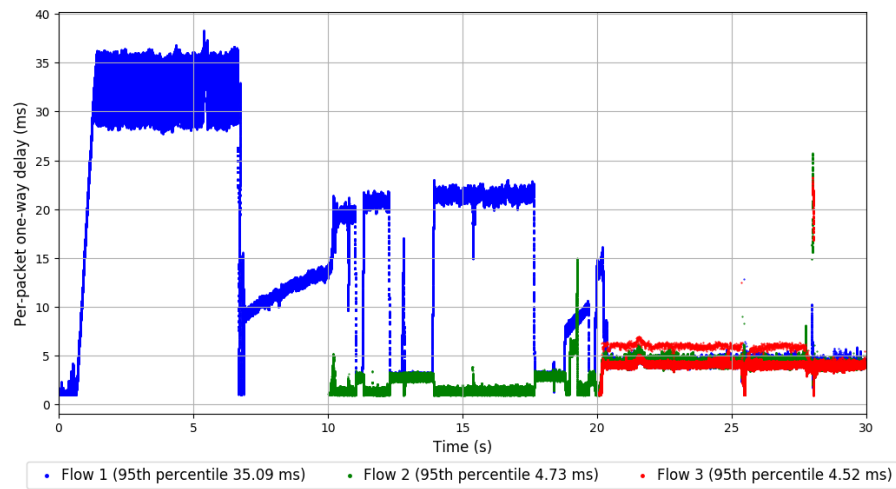
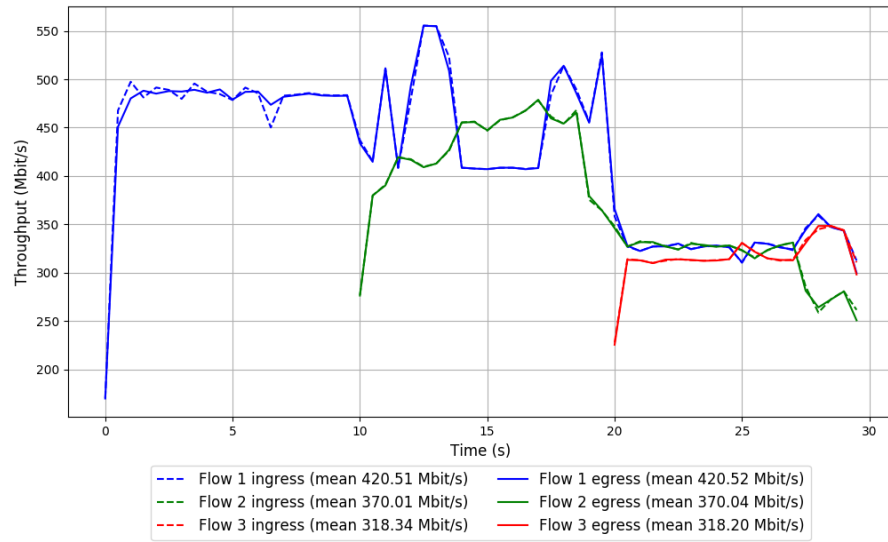


Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 14:14:34
End at: 2018-04-17 14:15:04
Local clock offset: 0.39 ms
Remote clock offset: -5.234 ms

Below is generated by plot.py at 2018-04-17 22:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 772.14 Mbit/s
95th percentile per-packet one-way delay: 34.587 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 420.52 Mbit/s
95th percentile per-packet one-way delay: 35.087 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 370.04 Mbit/s
95th percentile per-packet one-way delay: 4.729 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 318.20 Mbit/s
95th percentile per-packet one-way delay: 4.520 ms
Loss rate: 0.24%

Run 3: Report of TCP Cubic — Data Link

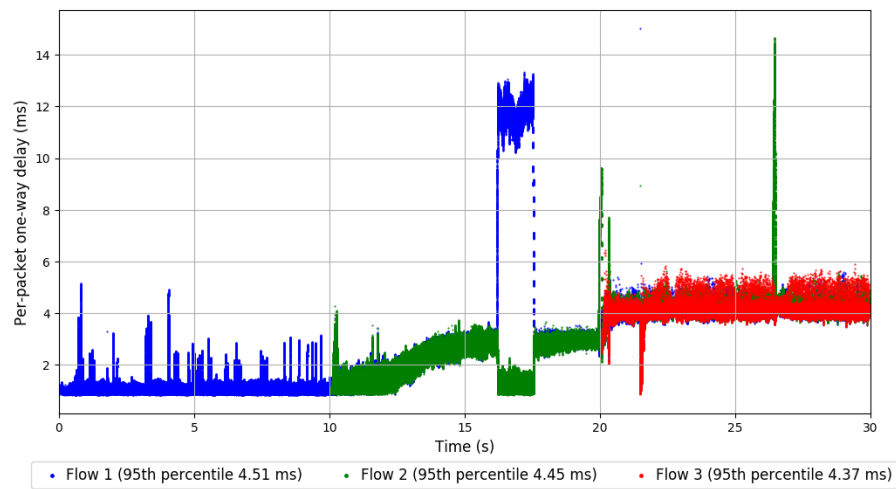
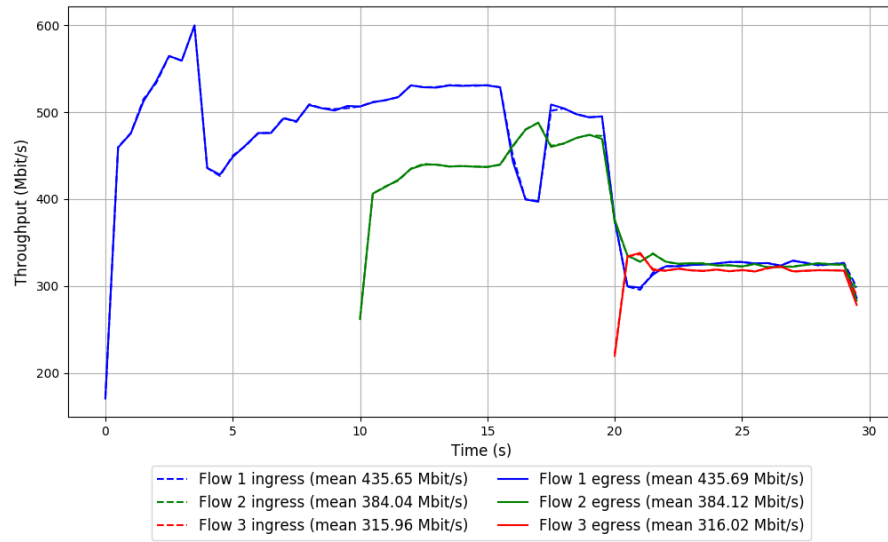


Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 14:41:08
End at: 2018-04-17 14:41:38
Local clock offset: 0.141 ms
Remote clock offset: -5.316 ms

Below is generated by plot.py at 2018-04-17 22:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 795.75 Mbit/s
95th percentile per-packet one-way delay: 4.445 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 435.69 Mbit/s
95th percentile per-packet one-way delay: 4.510 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 384.12 Mbit/s
95th percentile per-packet one-way delay: 4.450 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 316.02 Mbit/s
95th percentile per-packet one-way delay: 4.372 ms
Loss rate: 0.23%

Run 4: Report of TCP Cubic — Data Link

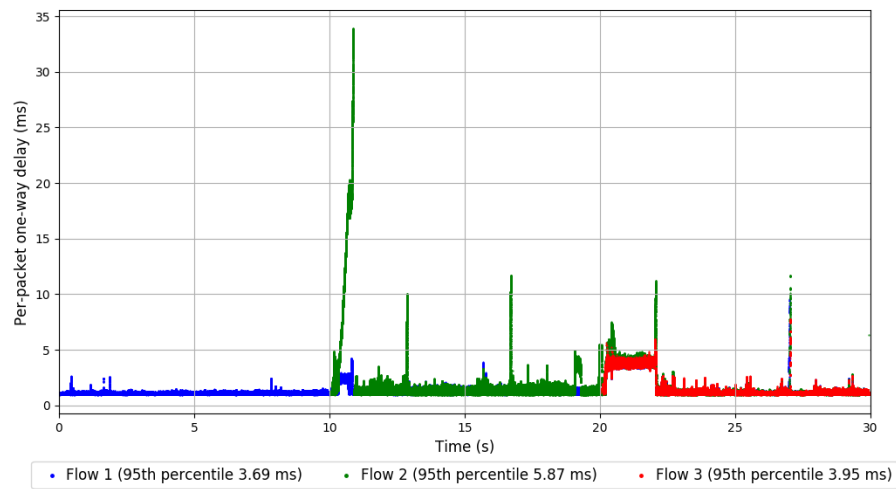
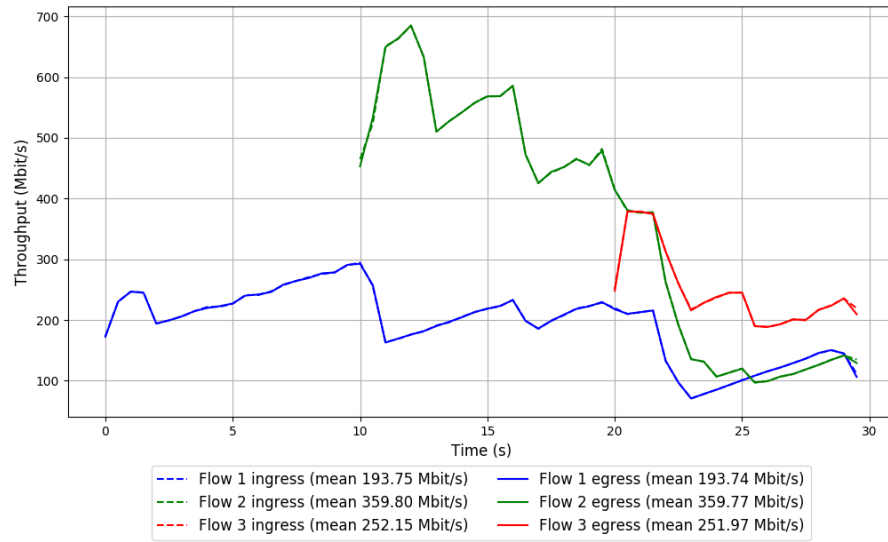


Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 15:07:43
End at: 2018-04-17 15:08:13
Local clock offset: 0.076 ms
Remote clock offset: -5.548 ms

Below is generated by plot.py at 2018-04-17 22:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 516.45 Mbit/s
95th percentile per-packet one-way delay: 4.085 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 193.74 Mbit/s
95th percentile per-packet one-way delay: 3.686 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 359.77 Mbit/s
95th percentile per-packet one-way delay: 5.865 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 251.97 Mbit/s
95th percentile per-packet one-way delay: 3.953 ms
Loss rate: 0.27%

Run 5: Report of TCP Cubic — Data Link

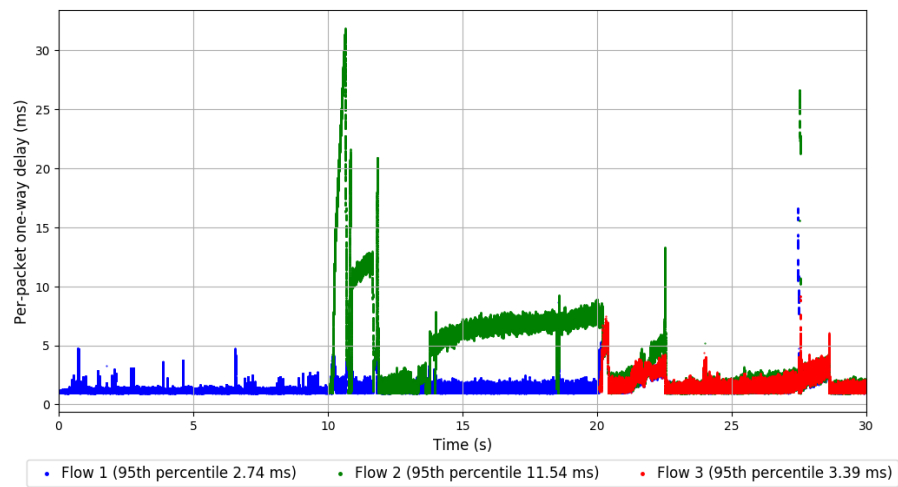
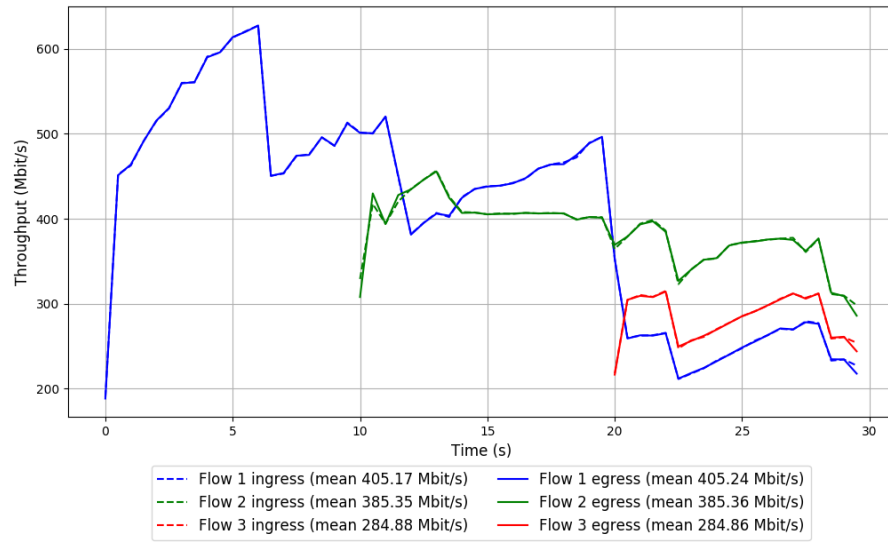


Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 15:34:15
End at: 2018-04-17 15:34:45
Local clock offset: 0.114 ms
Remote clock offset: -6.536 ms

Below is generated by plot.py at 2018-04-17 22:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 756.01 Mbit/s
95th percentile per-packet one-way delay: 7.252 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 405.24 Mbit/s
95th percentile per-packet one-way delay: 2.742 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 385.36 Mbit/s
95th percentile per-packet one-way delay: 11.538 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 284.86 Mbit/s
95th percentile per-packet one-way delay: 3.386 ms
Loss rate: 0.20%

Run 6: Report of TCP Cubic — Data Link

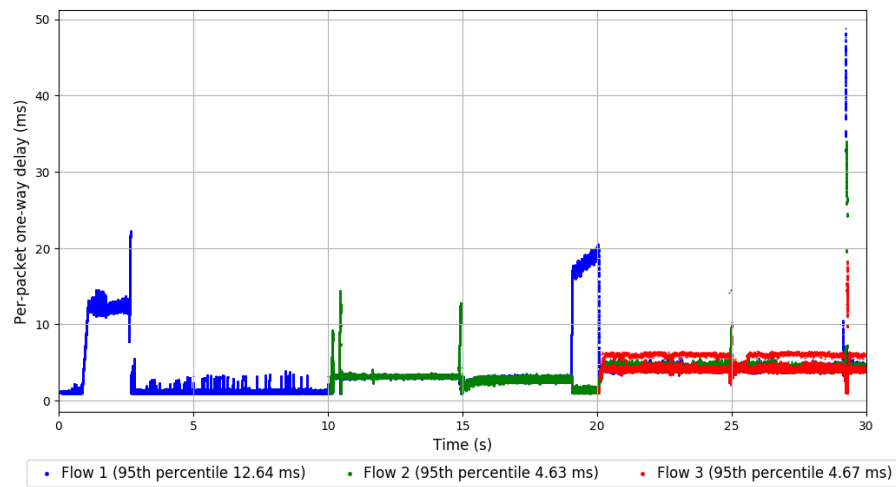
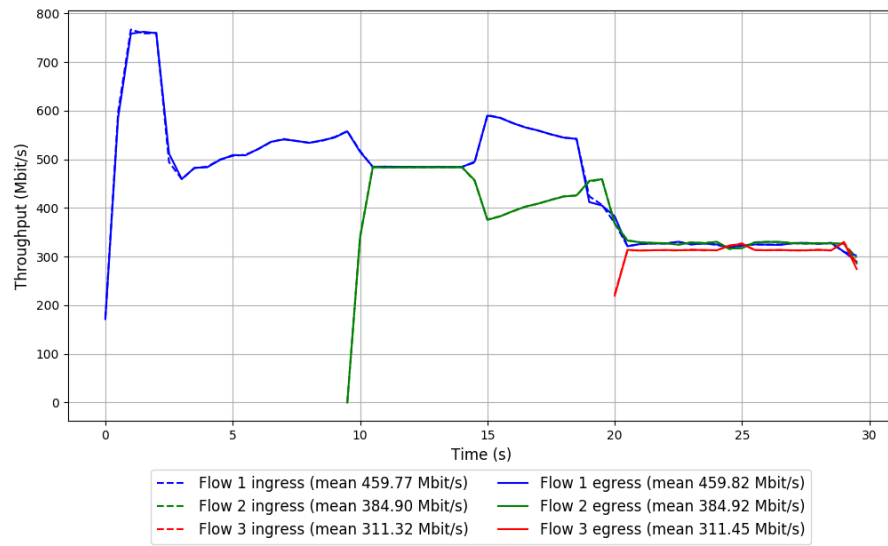


Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 16:00:53
End at: 2018-04-17 16:01:23
Local clock offset: 0.272 ms
Remote clock offset: -6.785 ms

Below is generated by plot.py at 2018-04-17 22:42:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 819.25 Mbit/s
95th percentile per-packet one-way delay: 11.976 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 459.82 Mbit/s
95th percentile per-packet one-way delay: 12.643 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 384.92 Mbit/s
95th percentile per-packet one-way delay: 4.632 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 311.45 Mbit/s
95th percentile per-packet one-way delay: 4.669 ms
Loss rate: 0.24%

Run 7: Report of TCP Cubic — Data Link

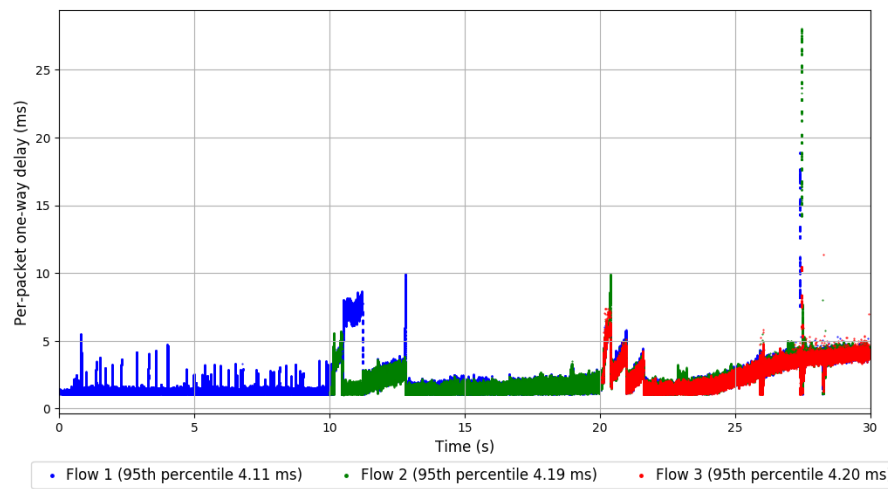
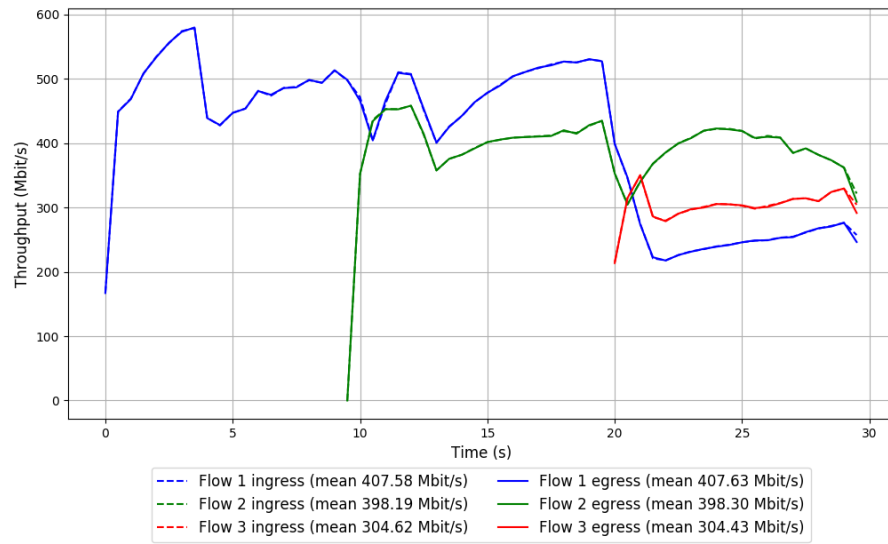


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 16:27:39
End at: 2018-04-17 16:28:09
Local clock offset: 0.021 ms
Remote clock offset: -6.716 ms

Below is generated by plot.py at 2018-04-17 22:45:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 773.59 Mbit/s
95th percentile per-packet one-way delay: 4.166 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 407.63 Mbit/s
95th percentile per-packet one-way delay: 4.108 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 398.30 Mbit/s
95th percentile per-packet one-way delay: 4.188 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 304.43 Mbit/s
95th percentile per-packet one-way delay: 4.202 ms
Loss rate: 0.25%

Run 8: Report of TCP Cubic — Data Link

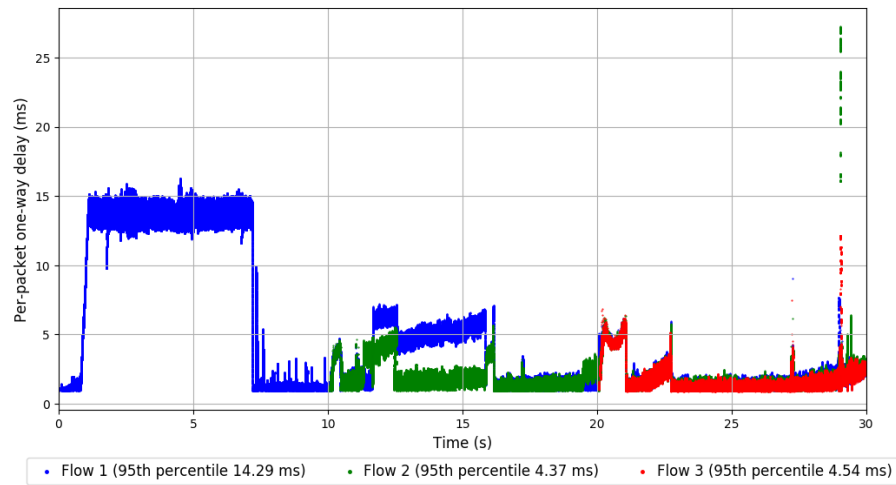
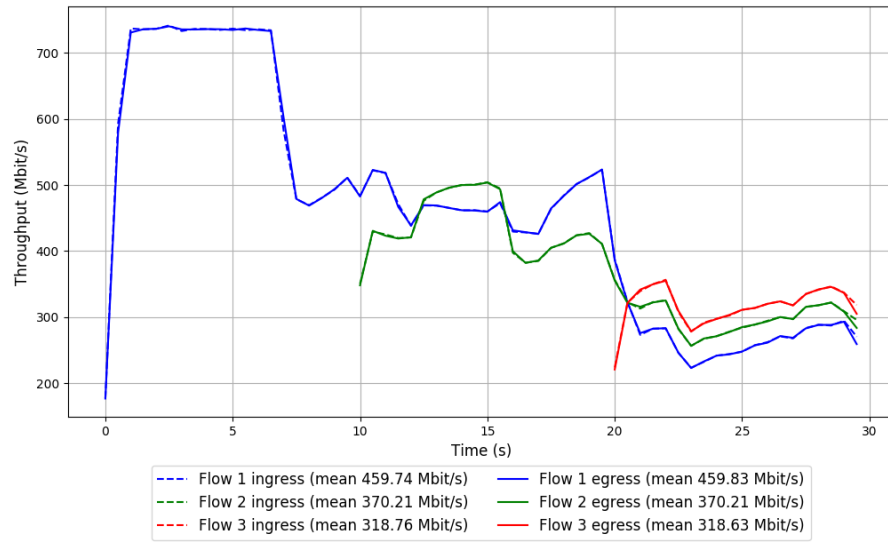


Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 16:54:10
End at: 2018-04-17 16:54:40
Local clock offset: -0.149 ms
Remote clock offset: -6.478 ms

Below is generated by plot.py at 2018-04-17 22:45:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 811.90 Mbit/s
95th percentile per-packet one-way delay: 13.936 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 459.83 Mbit/s
95th percentile per-packet one-way delay: 14.292 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 370.21 Mbit/s
95th percentile per-packet one-way delay: 4.366 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 318.63 Mbit/s
95th percentile per-packet one-way delay: 4.540 ms
Loss rate: 0.24%

Run 9: Report of TCP Cubic — Data Link

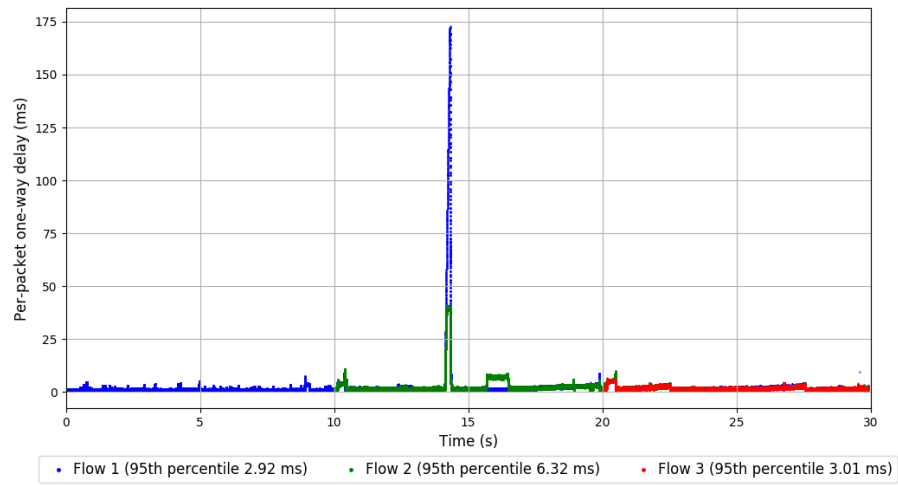
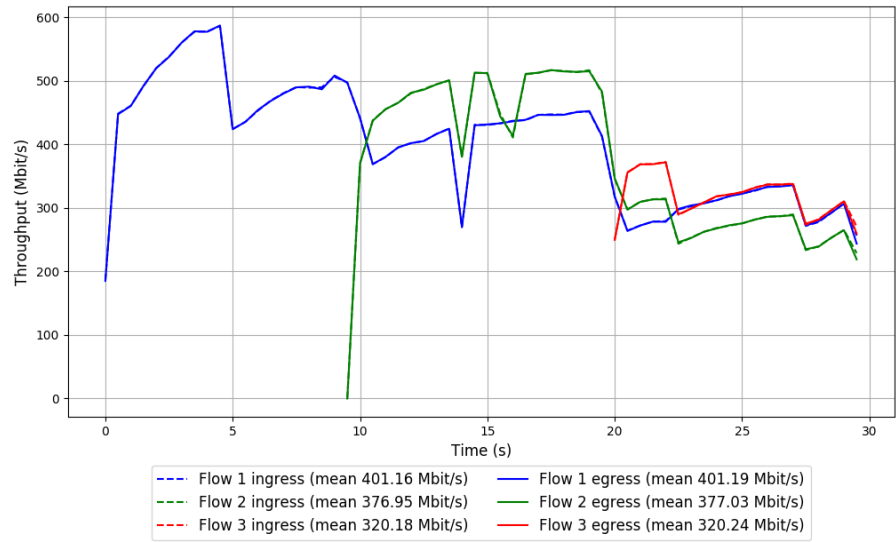


Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 17:20:47
End at: 2018-04-17 17:21:17
Local clock offset: -0.065 ms
Remote clock offset: -6.252 ms

Below is generated by plot.py at 2018-04-17 22:45:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 758.42 Mbit/s
95th percentile per-packet one-way delay: 3.379 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 401.19 Mbit/s
95th percentile per-packet one-way delay: 2.925 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 377.03 Mbit/s
95th percentile per-packet one-way delay: 6.316 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 320.24 Mbit/s
95th percentile per-packet one-way delay: 3.006 ms
Loss rate: 0.20%

Run 10: Report of TCP Cubic — Data Link

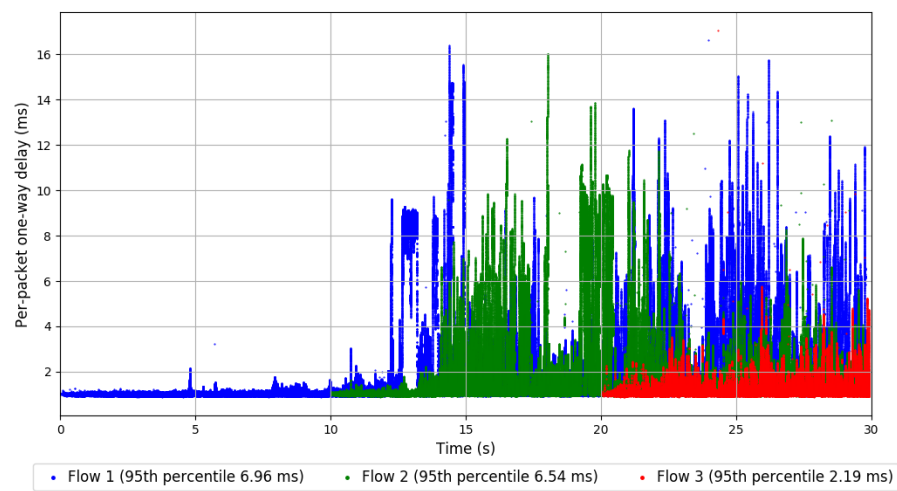
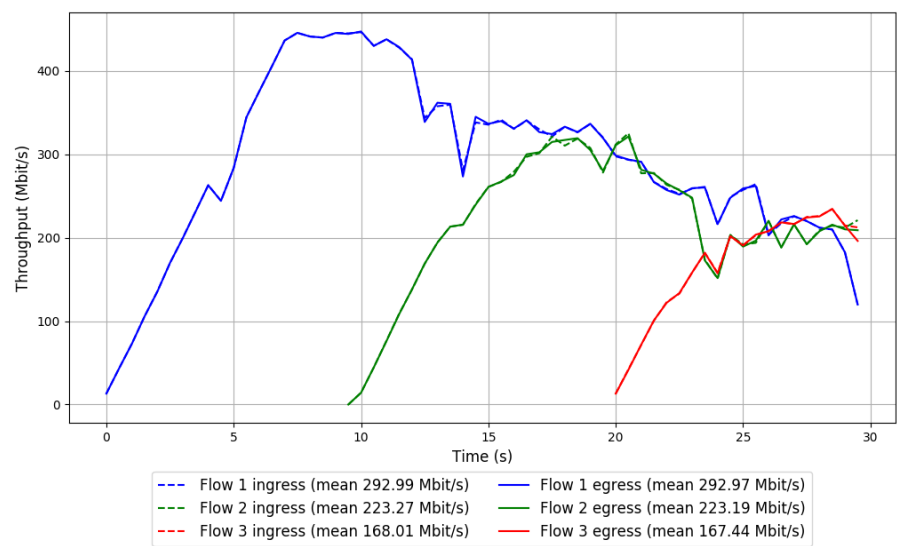



```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 13:24:26
End at: 2018-04-17 13:24:56
Local clock offset: 0.268 ms
Remote clock offset: -5.042 ms

# Below is generated by plot.py at 2018-04-17 22:45:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 495.75 Mbit/s
95th percentile per-packet one-way delay: 6.334 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 292.97 Mbit/s
95th percentile per-packet one-way delay: 6.963 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 223.19 Mbit/s
95th percentile per-packet one-way delay: 6.544 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 167.44 Mbit/s
95th percentile per-packet one-way delay: 2.188 ms
Loss rate: 0.53%
```

Run 1: Report of LEDBAT — Data Link

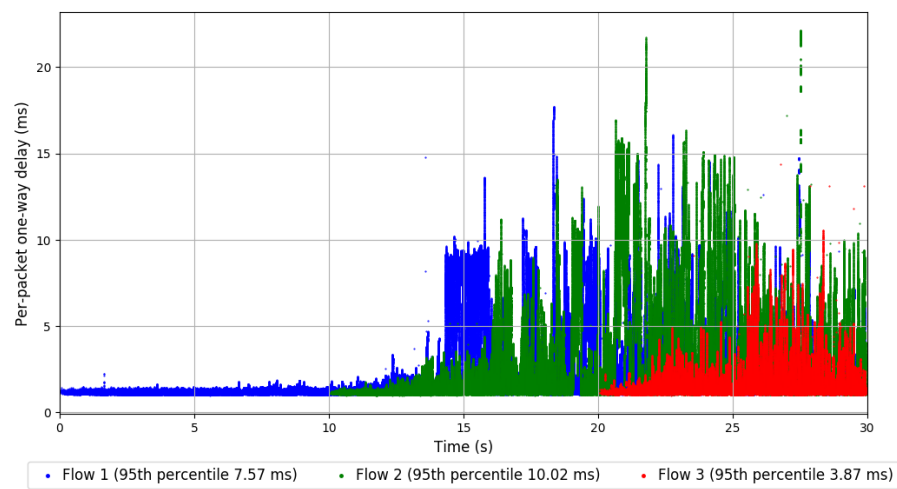
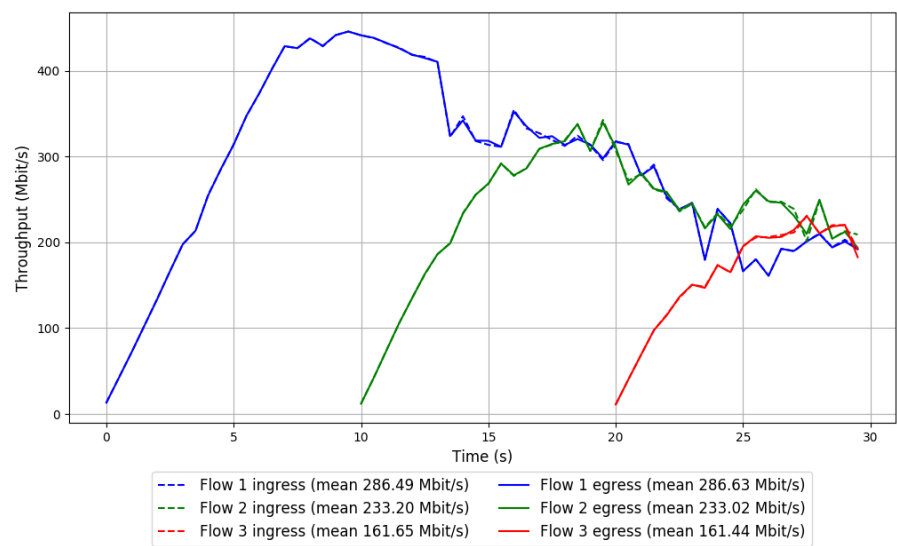


Run 2: Statistics of LEDBAT

Start at: 2018-04-17 13:51:07
End at: 2018-04-17 13:51:37
Local clock offset: 0.109 ms
Remote clock offset: -5.051 ms

Below is generated by plot.py at 2018-04-17 22:45:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 494.93 Mbit/s
95th percentile per-packet one-way delay: 8.139 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 286.63 Mbit/s
95th percentile per-packet one-way delay: 7.568 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 233.02 Mbit/s
95th percentile per-packet one-way delay: 10.019 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 161.44 Mbit/s
95th percentile per-packet one-way delay: 3.870 ms
Loss rate: 0.32%

Run 2: Report of LEDBAT — Data Link

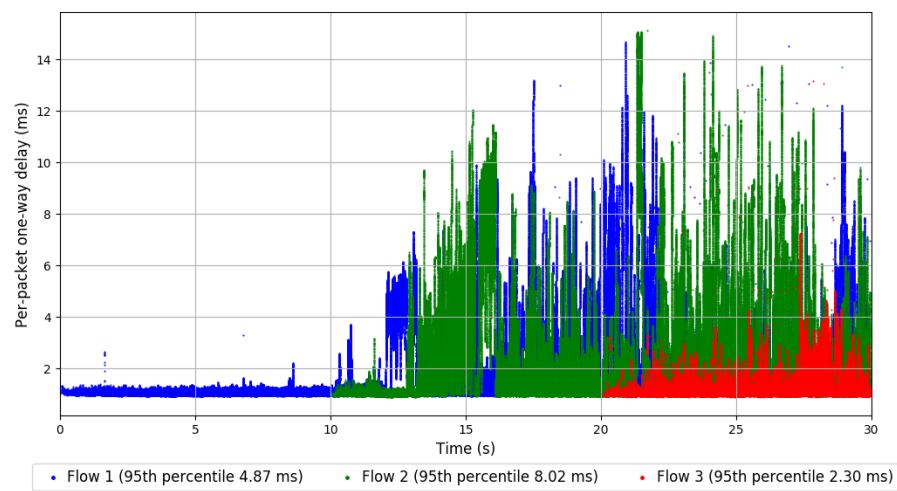
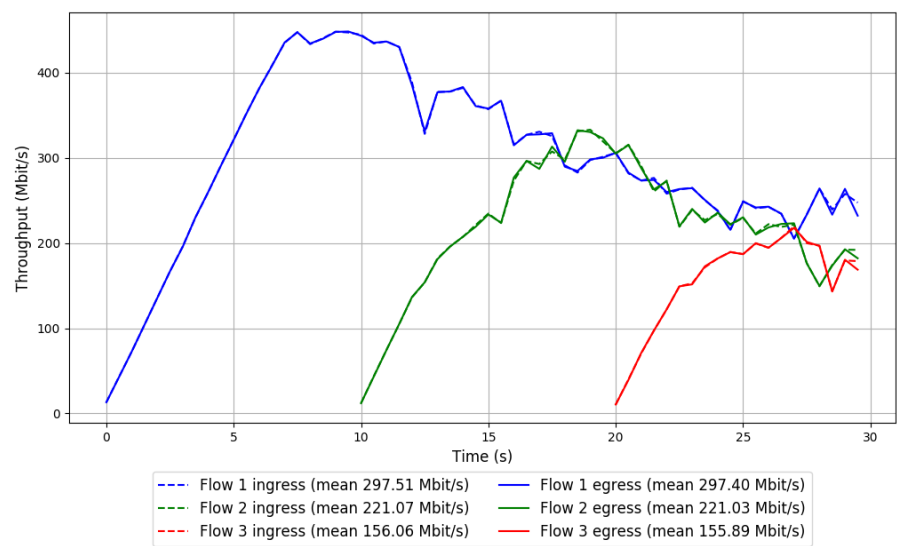


Run 3: Statistics of LEDBAT

Start at: 2018-04-17 14:17:41
End at: 2018-04-17 14:18:11
Local clock offset: 0.411 ms
Remote clock offset: -5.234 ms

Below is generated by plot.py at 2018-04-17 22:45:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 495.83 Mbit/s
95th percentile per-packet one-way delay: 5.663 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 297.40 Mbit/s
95th percentile per-packet one-way delay: 4.866 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 221.03 Mbit/s
95th percentile per-packet one-way delay: 8.023 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 155.89 Mbit/s
95th percentile per-packet one-way delay: 2.301 ms
Loss rate: 0.33%

Run 3: Report of LEDBAT — Data Link

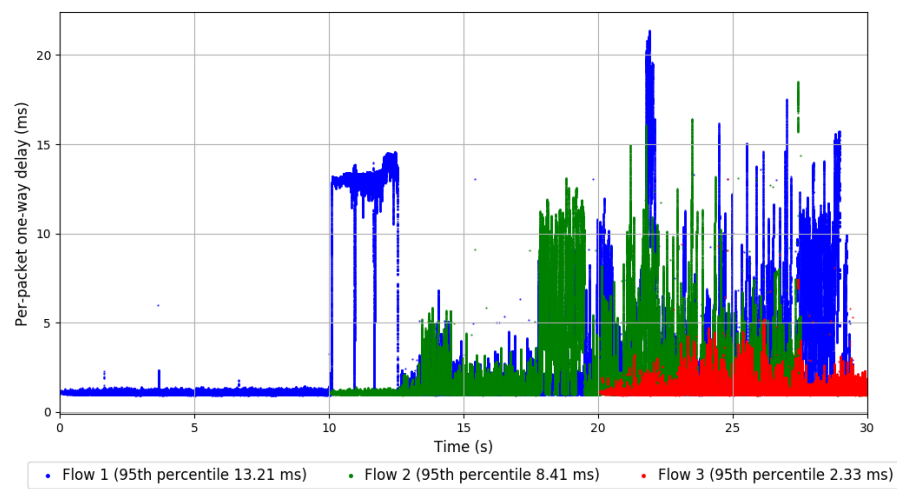
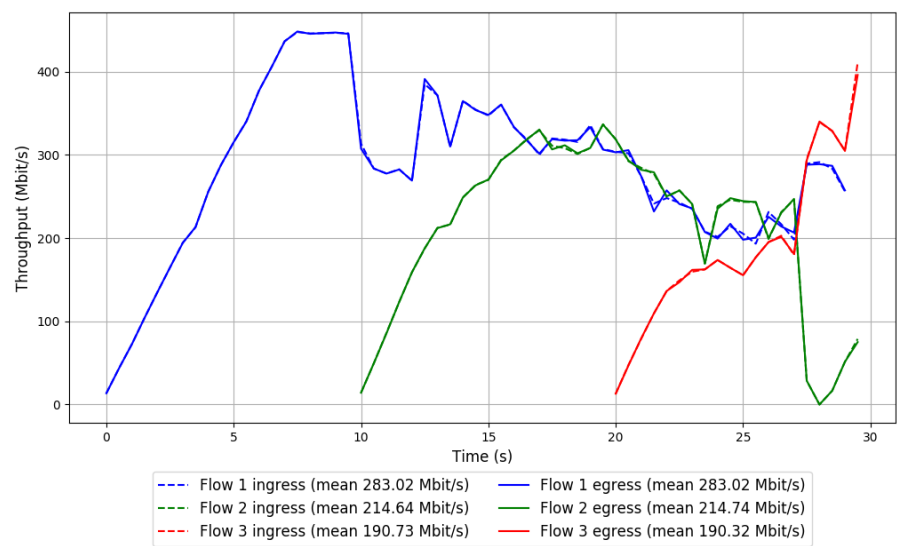


Run 4: Statistics of LEDBAT

Start at: 2018-04-17 14:44:16
End at: 2018-04-17 14:44:46
Local clock offset: 0.145 ms
Remote clock offset: -5.433 ms

Below is generated by plot.py at 2018-04-17 22:45:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 484.48 Mbit/s
95th percentile per-packet one-way delay: 12.515 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 283.02 Mbit/s
95th percentile per-packet one-way delay: 13.206 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 214.74 Mbit/s
95th percentile per-packet one-way delay: 8.414 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 190.32 Mbit/s
95th percentile per-packet one-way delay: 2.327 ms
Loss rate: 0.42%

Run 4: Report of LEDBAT — Data Link

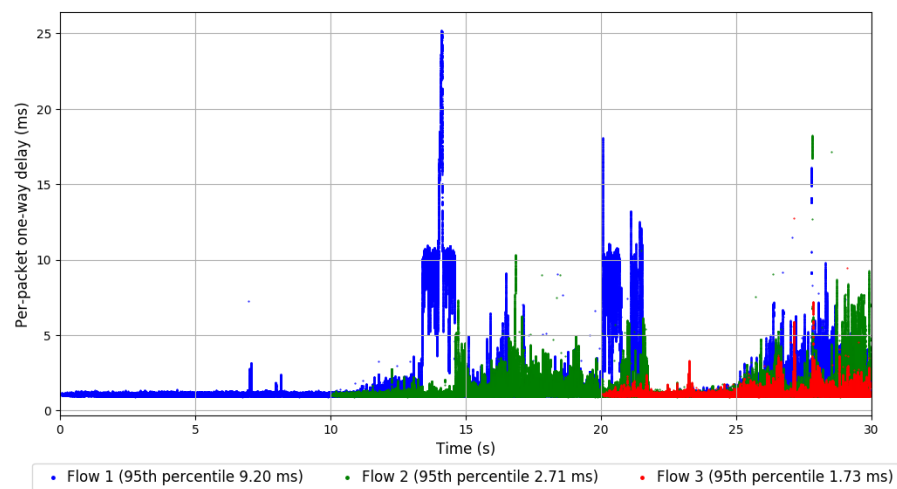
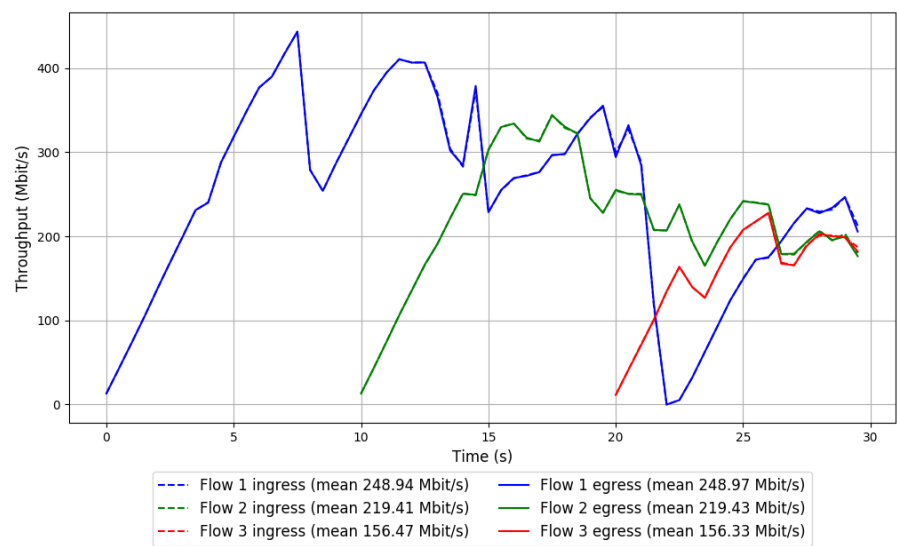


Run 5: Statistics of LEDBAT

Start at: 2018-04-17 15:10:42
End at: 2018-04-17 15:11:12
Local clock offset: 0.054 ms
Remote clock offset: -5.559 ms

Below is generated by plot.py at 2018-04-17 22:48:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 446.61 Mbit/s
95th percentile per-packet one-way delay: 5.296 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 248.97 Mbit/s
95th percentile per-packet one-way delay: 9.204 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 219.43 Mbit/s
95th percentile per-packet one-way delay: 2.708 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 156.33 Mbit/s
95th percentile per-packet one-way delay: 1.732 ms
Loss rate: 0.21%

Run 5: Report of LEDBAT — Data Link

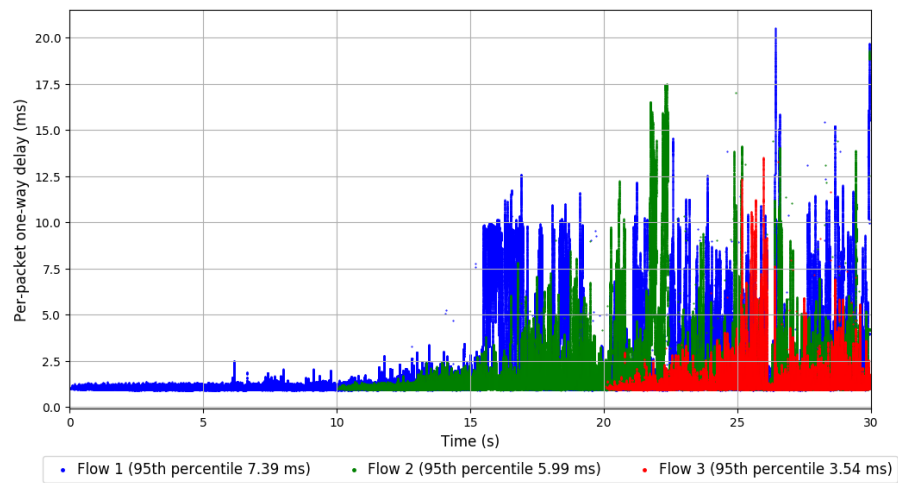
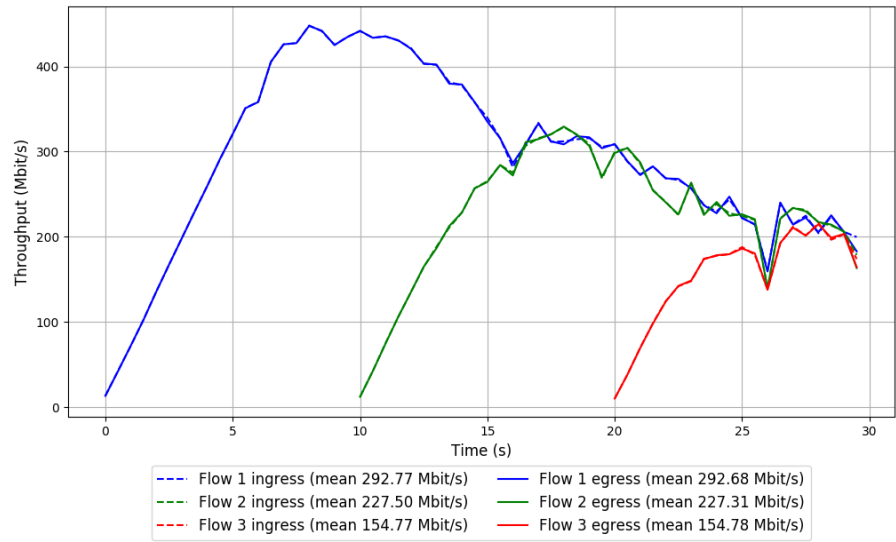


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 15:37:22
End at: 2018-04-17 15:37:52
Local clock offset: 0.145 ms
Remote clock offset: -6.534 ms

Below is generated by plot.py at 2018-04-17 22:49:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 494.81 Mbit/s
95th percentile per-packet one-way delay: 6.768 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 292.68 Mbit/s
95th percentile per-packet one-way delay: 7.389 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 227.31 Mbit/s
95th percentile per-packet one-way delay: 5.986 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 154.78 Mbit/s
95th percentile per-packet one-way delay: 3.540 ms
Loss rate: 0.31%

Run 6: Report of LEDBAT — Data Link

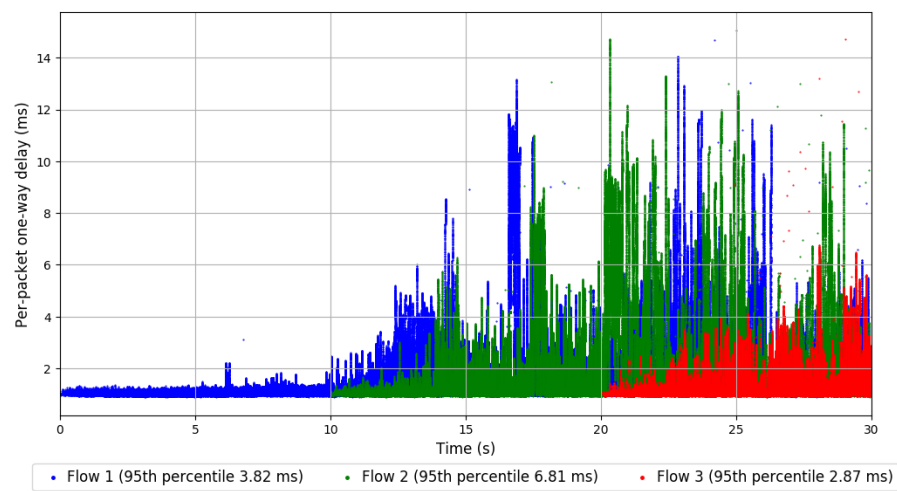
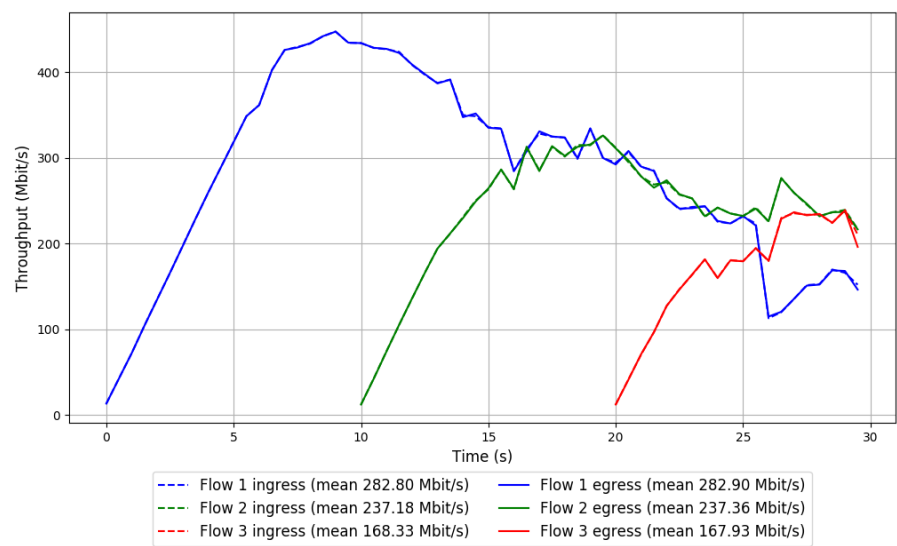


Run 7: Statistics of LEDBAT

Start at: 2018-04-17 16:04:02
End at: 2018-04-17 16:04:32
Local clock offset: 0.279 ms
Remote clock offset: -6.769 ms

Below is generated by plot.py at 2018-04-17 22:49:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 496.26 Mbit/s
95th percentile per-packet one-way delay: 4.711 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 282.90 Mbit/s
95th percentile per-packet one-way delay: 3.822 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 237.36 Mbit/s
95th percentile per-packet one-way delay: 6.812 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 167.93 Mbit/s
95th percentile per-packet one-way delay: 2.872 ms
Loss rate: 0.46%

Run 7: Report of LEDBAT — Data Link

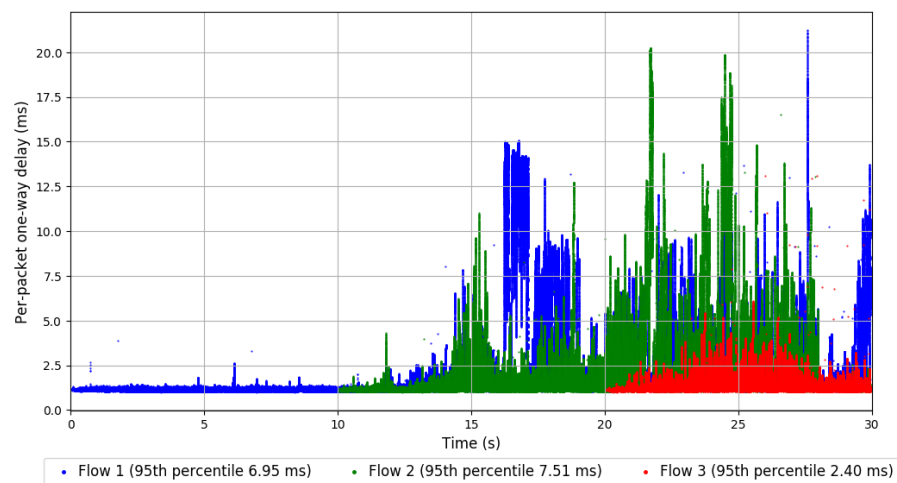
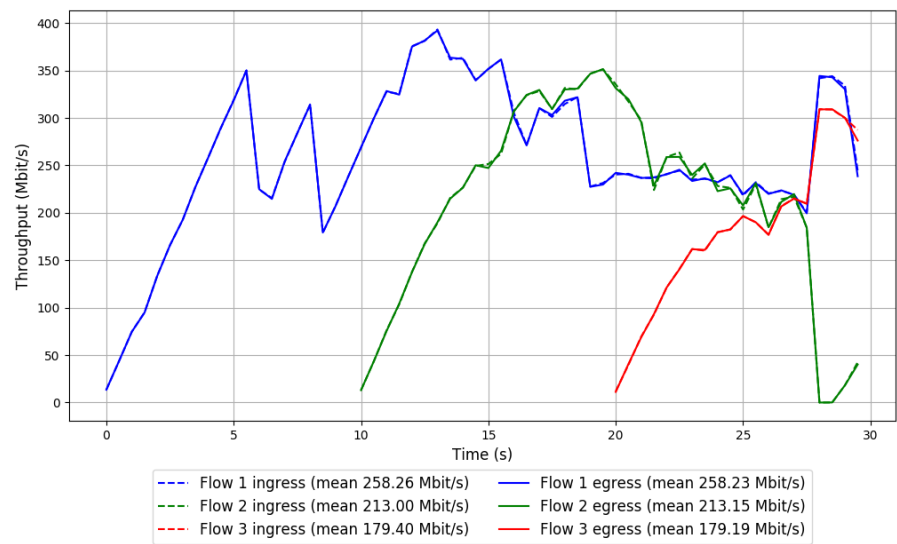


Run 8: Statistics of LEDBAT

Start at: 2018-04-17 16:30:46
End at: 2018-04-17 16:31:16
Local clock offset: -0.038 ms
Remote clock offset: -6.679 ms

```
# Below is generated by plot.py at 2018-04-17 22:49:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 459.34 Mbit/s
95th percentile per-packet one-way delay: 6.594 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 258.23 Mbit/s
95th percentile per-packet one-way delay: 6.946 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 213.15 Mbit/s
95th percentile per-packet one-way delay: 7.512 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 179.19 Mbit/s
95th percentile per-packet one-way delay: 2.404 ms
Loss rate: 0.33%
```

Run 8: Report of LEDBAT — Data Link

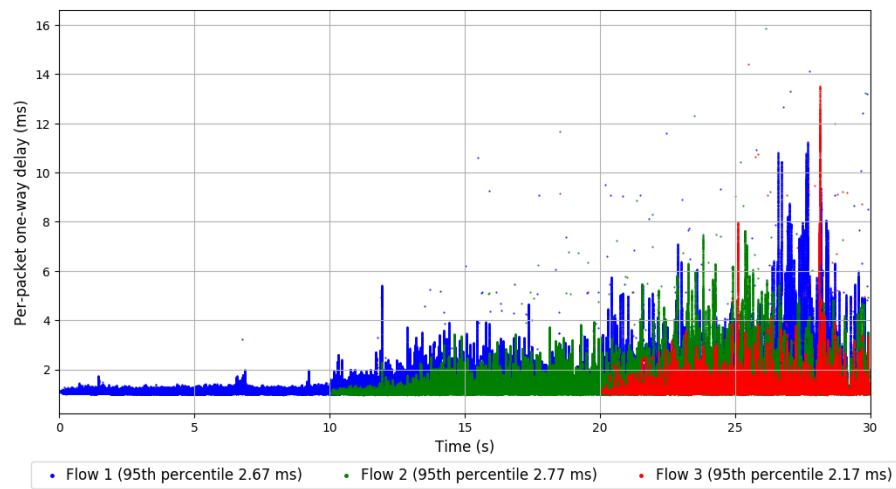
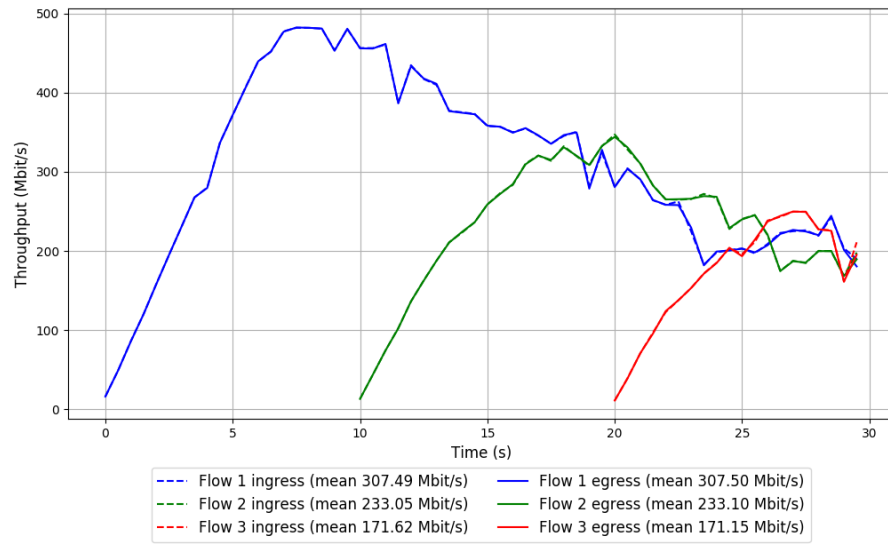


Run 9: Statistics of LEDBAT

Start at: 2018-04-17 16:57:18
End at: 2018-04-17 16:57:48
Local clock offset: -0.08 ms
Remote clock offset: -6.451 ms

Below is generated by plot.py at 2018-04-17 22:50:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 519.14 Mbit/s
95th percentile per-packet one-way delay: 2.660 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 307.50 Mbit/s
95th percentile per-packet one-way delay: 2.673 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 233.10 Mbit/s
95th percentile per-packet one-way delay: 2.769 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 171.15 Mbit/s
95th percentile per-packet one-way delay: 2.170 ms
Loss rate: 0.48%

Run 9: Report of LEDBAT — Data Link

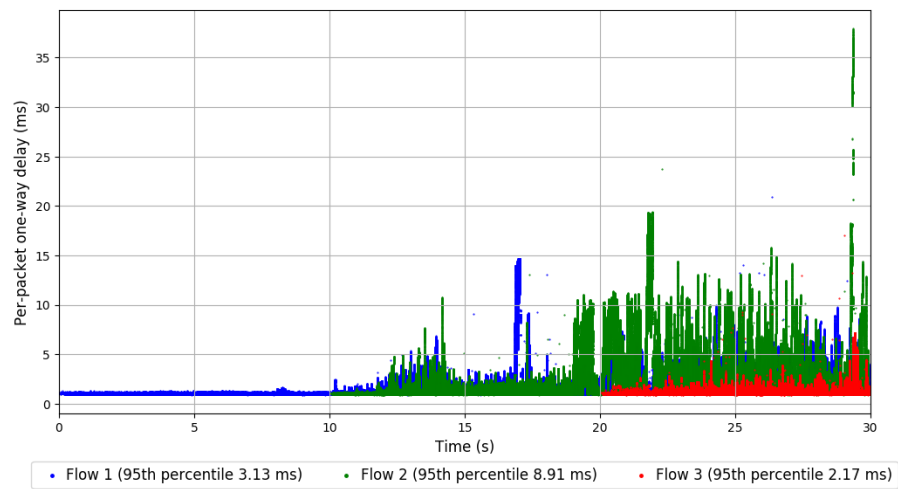
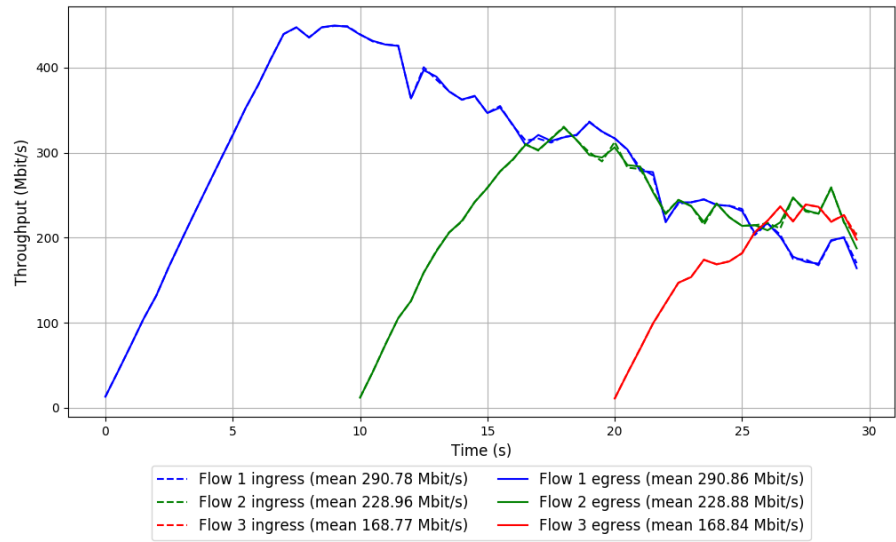


Run 10: Statistics of LEDBAT

Start at: 2018-04-17 17:23:55
End at: 2018-04-17 17:24:25
Local clock offset: -0.069 ms
Remote clock offset: -6.227 ms

Below is generated by plot.py at 2018-04-17 22:52:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 498.79 Mbit/s
95th percentile per-packet one-way delay: 5.766 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 290.86 Mbit/s
95th percentile per-packet one-way delay: 3.133 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 228.88 Mbit/s
95th percentile per-packet one-way delay: 8.909 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 168.84 Mbit/s
95th percentile per-packet one-way delay: 2.168 ms
Loss rate: 0.18%

Run 10: Report of LEDBAT — Data Link

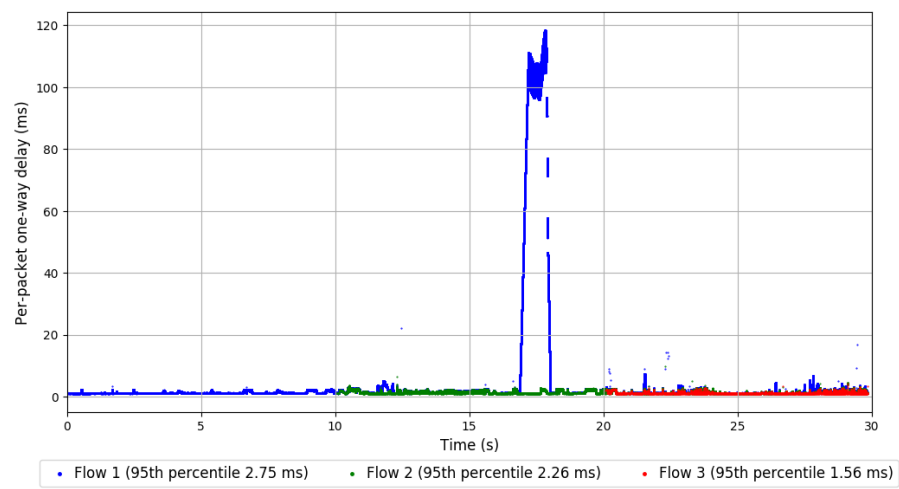
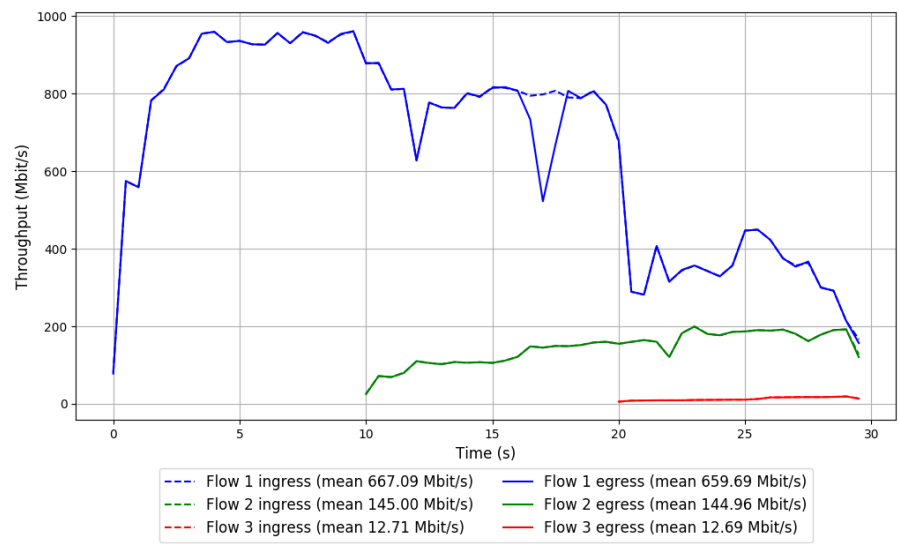


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 13:19:38
End at: 2018-04-17 13:20:08
Local clock offset: 0.428 ms
Remote clock offset: -5.165 ms

# Below is generated by plot.py at 2018-04-17 22:56:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 760.04 Mbit/s
95th percentile per-packet one-way delay: 2.469 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 659.69 Mbit/s
95th percentile per-packet one-way delay: 2.750 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 144.96 Mbit/s
95th percentile per-packet one-way delay: 2.261 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 12.69 Mbit/s
95th percentile per-packet one-way delay: 1.561 ms
Loss rate: 0.30%
```

Run 1: Report of PCC-Allegro — Data Link

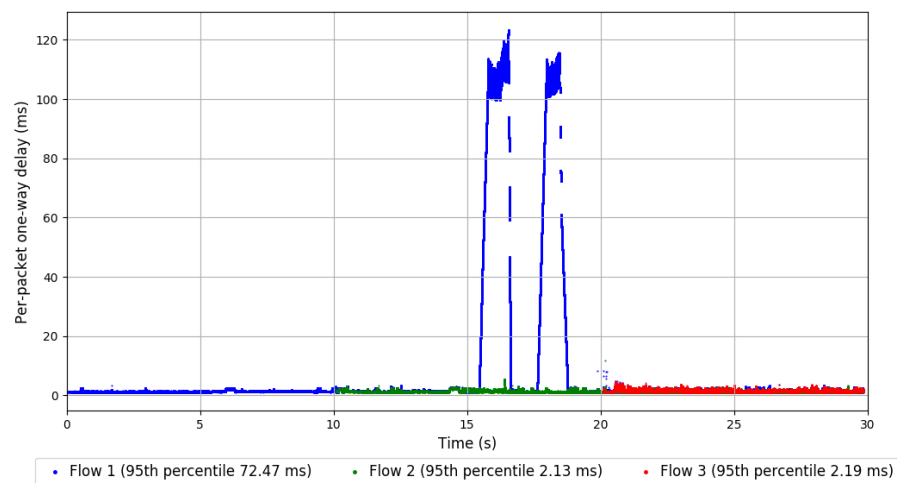
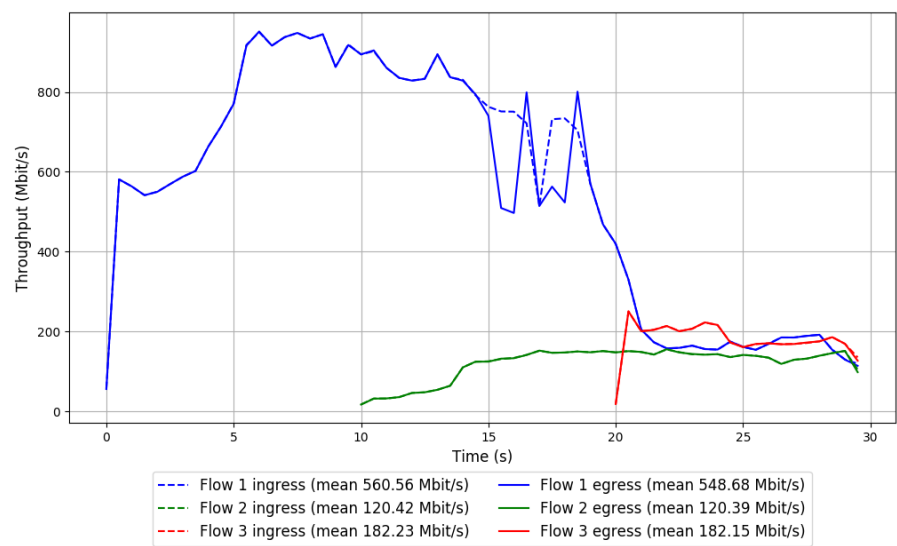


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 13:46:21
End at: 2018-04-17 13:46:51
Local clock offset: 0.157 ms
Remote clock offset: -5.099 ms

Below is generated by plot.py at 2018-04-17 22:56:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 688.32 Mbit/s
95th percentile per-packet one-way delay: 40.517 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 548.68 Mbit/s
95th percentile per-packet one-way delay: 72.471 ms
Loss rate: 2.18%
-- Flow 2:
Average throughput: 120.39 Mbit/s
95th percentile per-packet one-way delay: 2.127 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 182.15 Mbit/s
95th percentile per-packet one-way delay: 2.188 ms
Loss rate: 0.24%

Run 2: Report of PCC-Allegro — Data Link

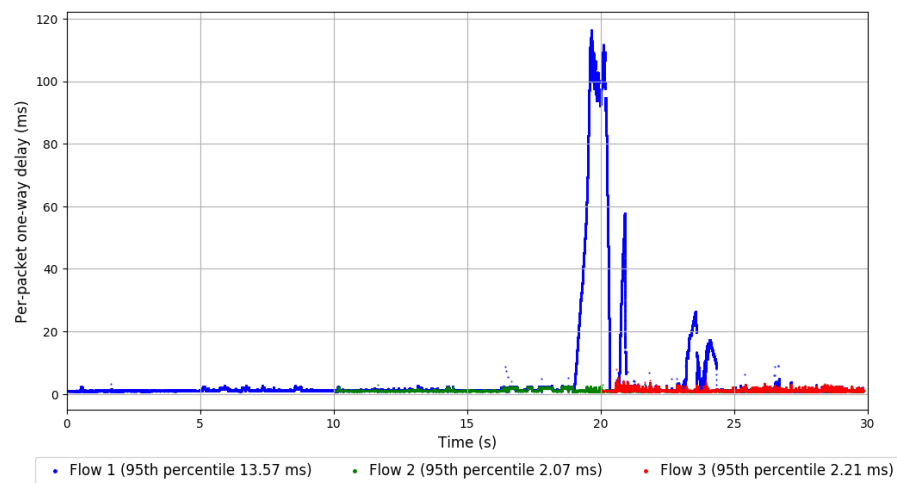
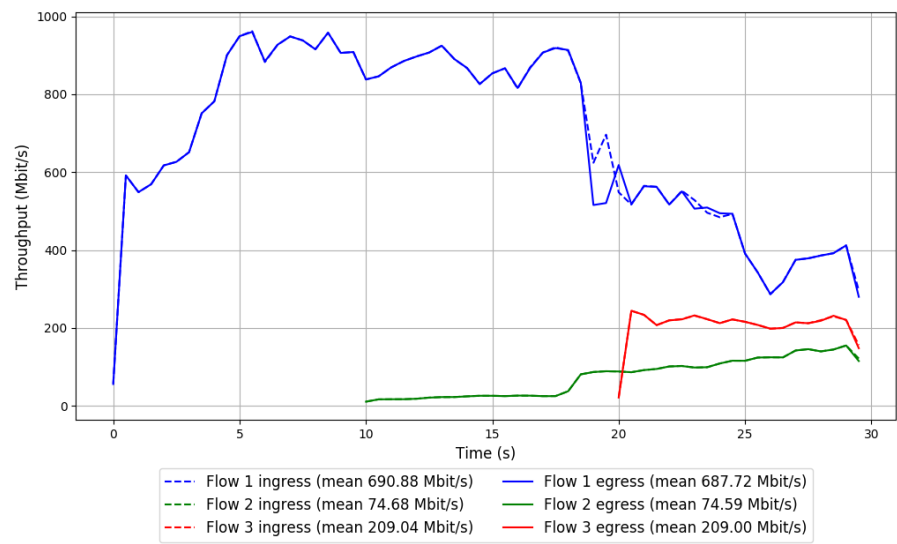


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 14:12:53
End at: 2018-04-17 14:13:23
Local clock offset: 0.293 ms
Remote clock offset: -5.198 ms

```
# Below is generated by plot.py at 2018-04-17 23:00:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 805.96 Mbit/s
95th percentile per-packet one-way delay: 9.397 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 687.72 Mbit/s
95th percentile per-packet one-way delay: 13.573 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 74.59 Mbit/s
95th percentile per-packet one-way delay: 2.074 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 209.00 Mbit/s
95th percentile per-packet one-way delay: 2.208 ms
Loss rate: 0.20%
```

Run 3: Report of PCC-Allegro — Data Link

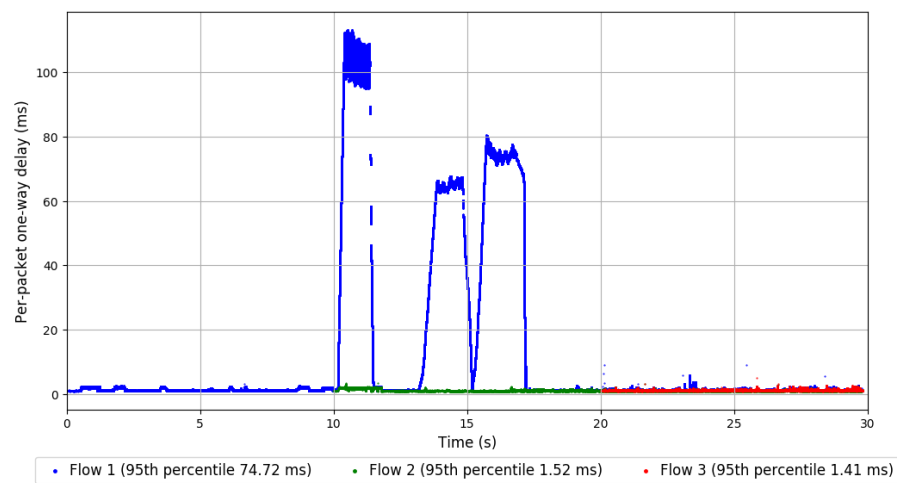
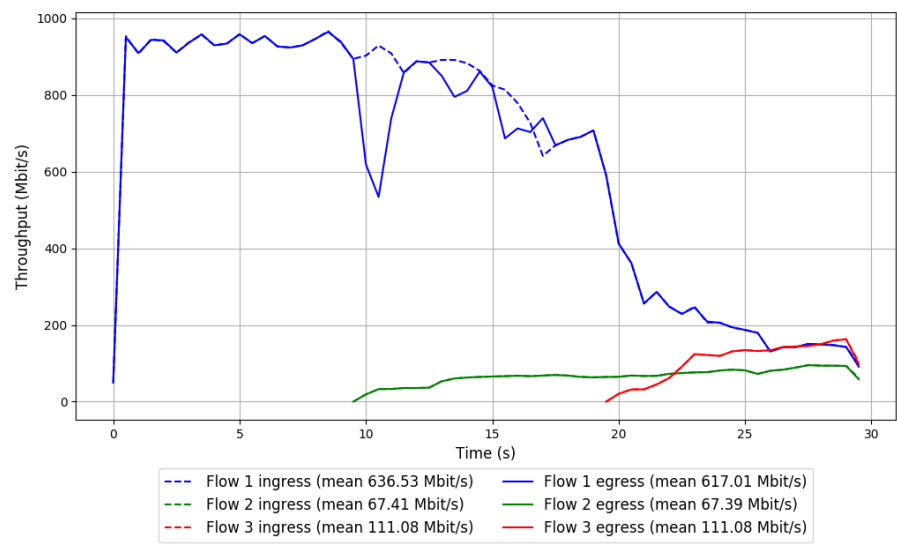


Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 14:39:30
End at: 2018-04-17 14:40:00
Local clock offset: 0.173 ms
Remote clock offset: -5.323 ms

Below is generated by plot.py at 2018-04-17 23:00:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 698.37 Mbit/s
95th percentile per-packet one-way delay: 74.138 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 617.01 Mbit/s
95th percentile per-packet one-way delay: 74.724 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 67.39 Mbit/s
95th percentile per-packet one-way delay: 1.519 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 111.08 Mbit/s
95th percentile per-packet one-way delay: 1.414 ms
Loss rate: 0.24%

Run 4: Report of PCC-Allegro — Data Link

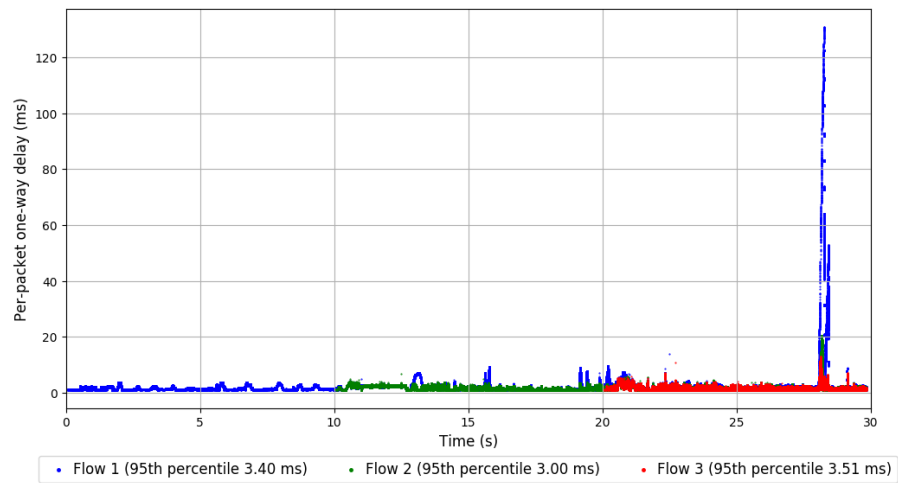
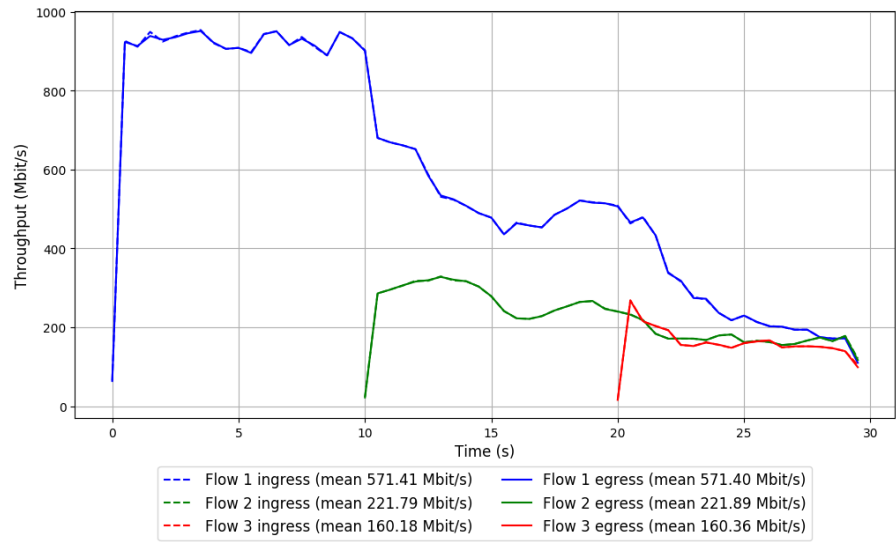


Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 15:06:03
End at: 2018-04-17 15:06:33
Local clock offset: 0.182 ms
Remote clock offset: -5.552 ms

Below is generated by plot.py at 2018-04-17 23:01:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 771.48 Mbit/s
95th percentile per-packet one-way delay: 3.316 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 571.40 Mbit/s
95th percentile per-packet one-way delay: 3.396 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 221.89 Mbit/s
95th percentile per-packet one-way delay: 2.999 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 160.36 Mbit/s
95th percentile per-packet one-way delay: 3.510 ms
Loss rate: 0.20%

Run 5: Report of PCC-Allegro — Data Link

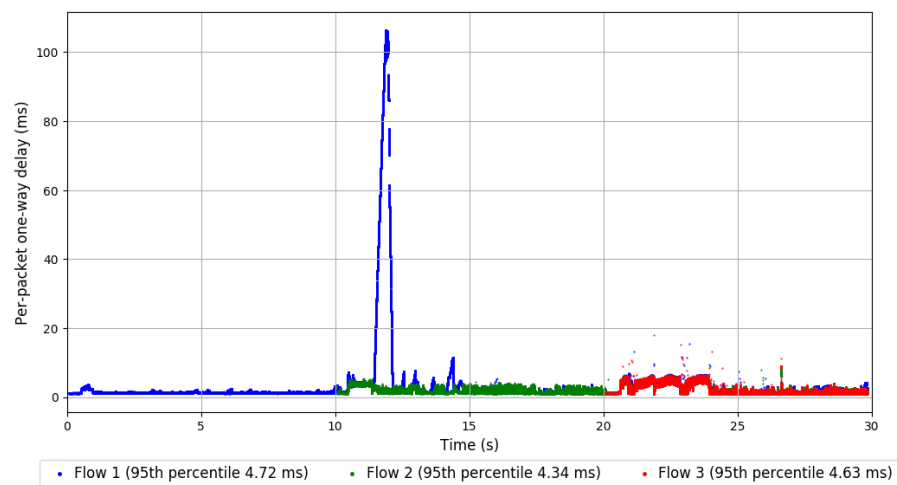
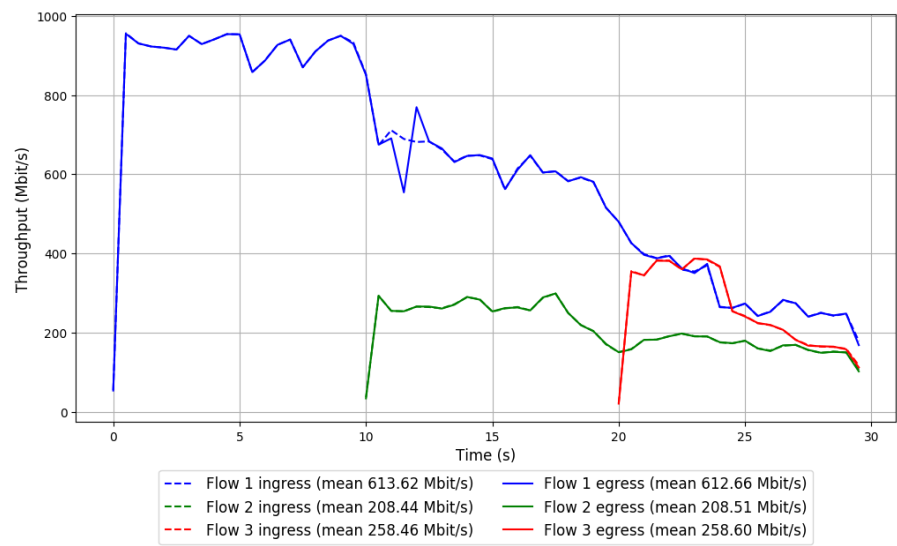


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 15:32:33
End at: 2018-04-17 15:33:03
Local clock offset: 0.124 ms
Remote clock offset: -6.525 ms

Below is generated by plot.py at 2018-04-17 23:02:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 836.03 Mbit/s
95th percentile per-packet one-way delay: 4.603 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 612.66 Mbit/s
95th percentile per-packet one-way delay: 4.721 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 208.51 Mbit/s
95th percentile per-packet one-way delay: 4.340 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 258.60 Mbit/s
95th percentile per-packet one-way delay: 4.629 ms
Loss rate: 0.14%

Run 6: Report of PCC-Allegro — Data Link

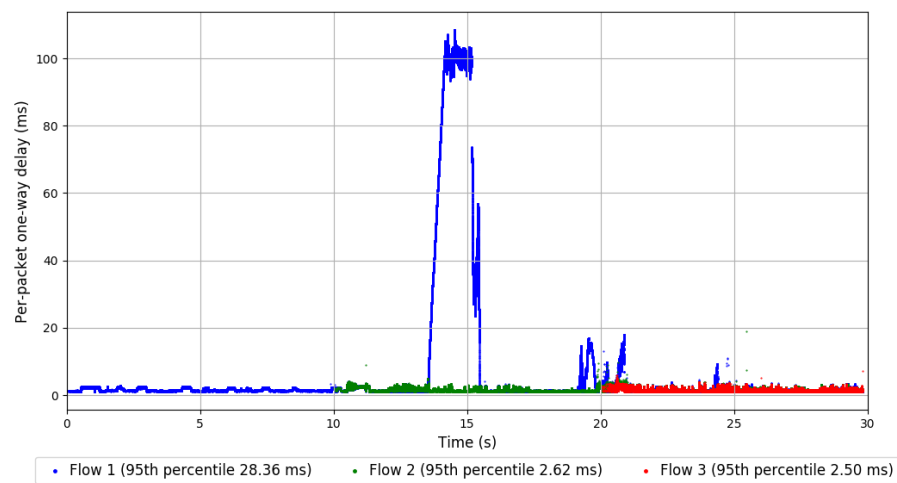
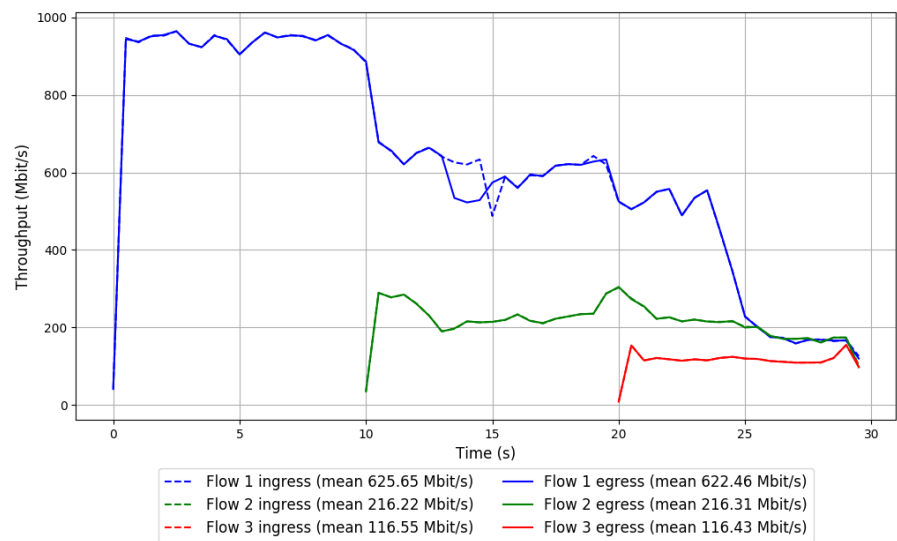


Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 15:59:13
End at: 2018-04-17 15:59:43
Local clock offset: 0.273 ms
Remote clock offset: -6.844 ms

Below is generated by plot.py at 2018-04-17 23:03:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 804.23 Mbit/s
95th percentile per-packet one-way delay: 11.594 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 622.46 Mbit/s
95th percentile per-packet one-way delay: 28.364 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 216.31 Mbit/s
95th percentile per-packet one-way delay: 2.620 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 116.43 Mbit/s
95th percentile per-packet one-way delay: 2.498 ms
Loss rate: 0.24%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 16:25:57

End at: 2018-04-17 16:26:27

Local clock offset: -0.006 ms

Remote clock offset: -6.78 ms

Below is generated by plot.py at 2018-04-17 23:06:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 853.98 Mbit/s

95th percentile per-packet one-way delay: 3.613 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 498.46 Mbit/s

95th percentile per-packet one-way delay: 3.533 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 439.73 Mbit/s

95th percentile per-packet one-way delay: 3.699 ms

Loss rate: 0.07%

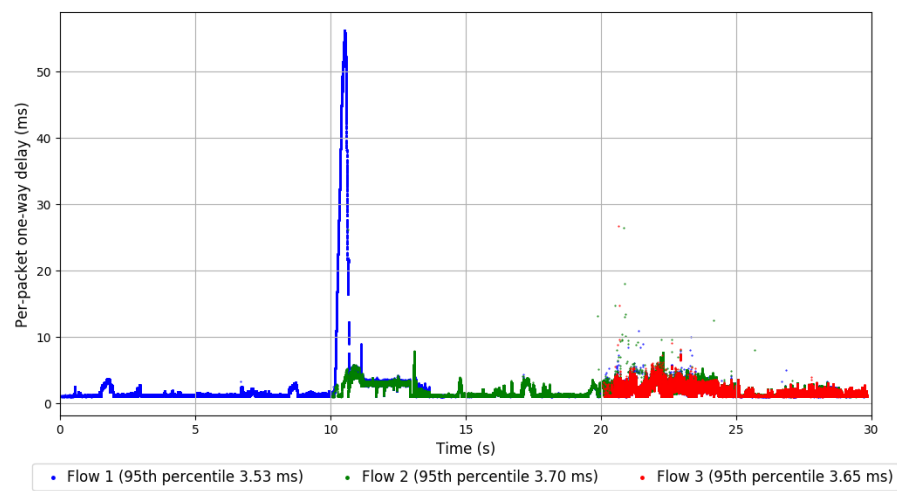
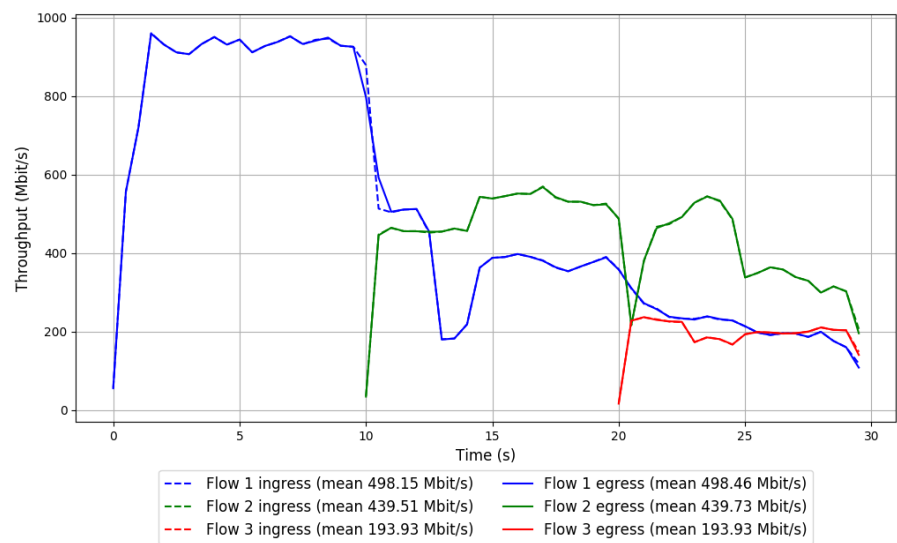
-- Flow 3:

Average throughput: 193.93 Mbit/s

95th percentile per-packet one-way delay: 3.650 ms

Loss rate: 0.22%

Run 8: Report of PCC-Allegro — Data Link

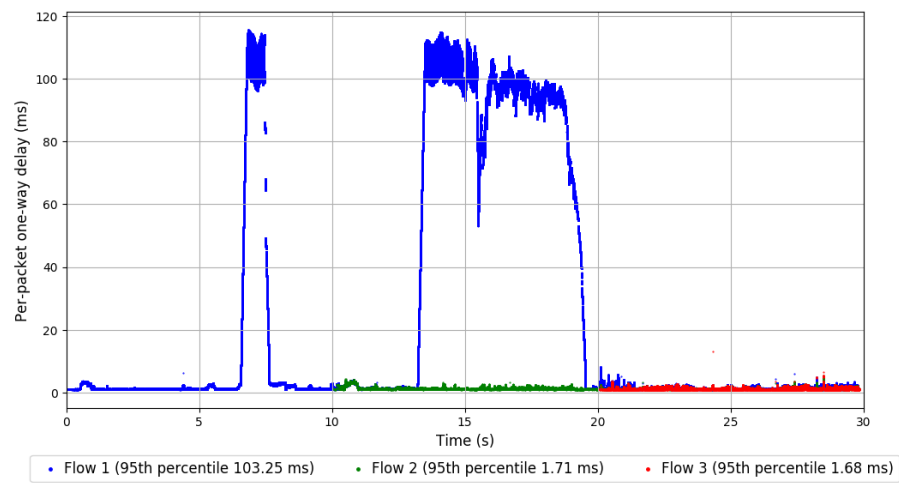
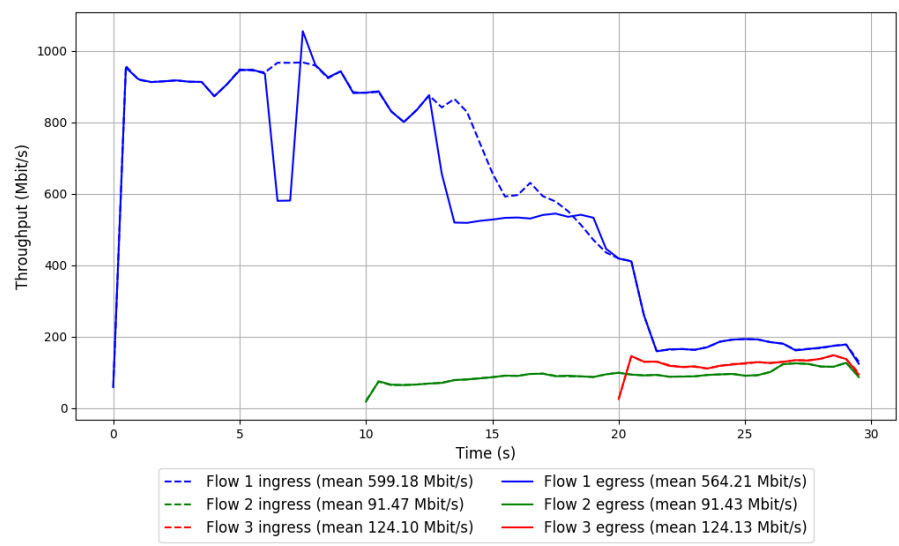


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 16:52:33
End at: 2018-04-17 16:53:03
Local clock offset: -0.145 ms
Remote clock offset: -6.451 ms

Below is generated by plot.py at 2018-04-17 23:07:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 665.70 Mbit/s
95th percentile per-packet one-way delay: 102.094 ms
Loss rate: 5.07%
-- Flow 1:
Average throughput: 564.21 Mbit/s
95th percentile per-packet one-way delay: 103.252 ms
Loss rate: 5.90%
-- Flow 2:
Average throughput: 91.43 Mbit/s
95th percentile per-packet one-way delay: 1.706 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 124.13 Mbit/s
95th percentile per-packet one-way delay: 1.675 ms
Loss rate: 0.19%

Run 9: Report of PCC-Allegro — Data Link

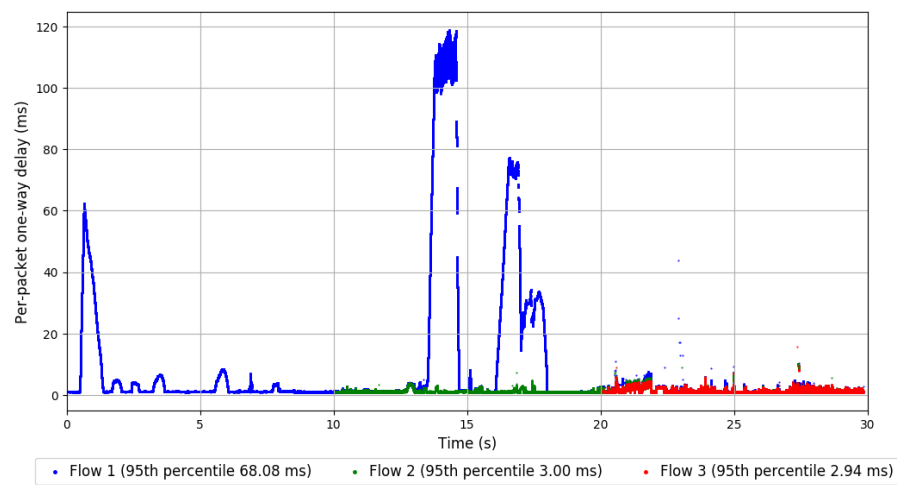
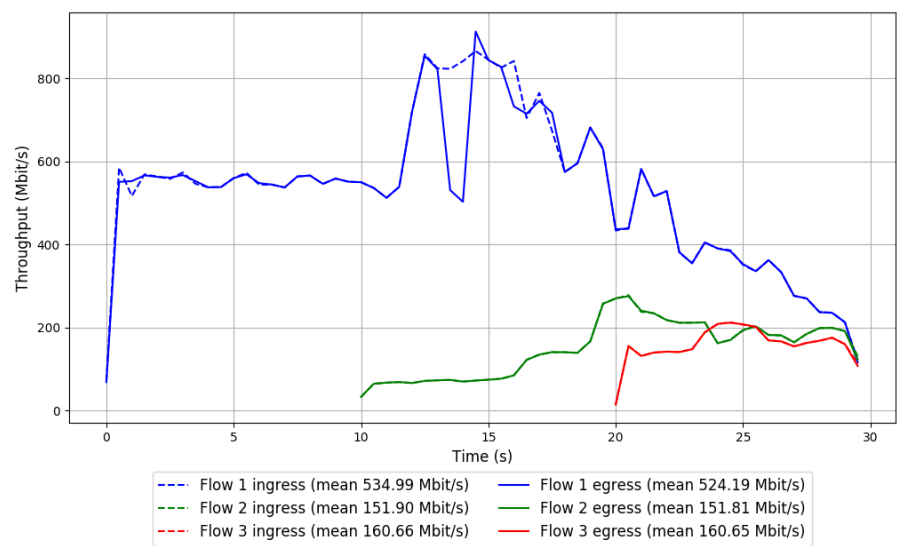


Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 17:19:10
End at: 2018-04-17 17:19:40
Local clock offset: -0.15 ms
Remote clock offset: -6.334 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 677.75 Mbit/s
95th percentile per-packet one-way delay: 50.119 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 524.19 Mbit/s
95th percentile per-packet one-way delay: 68.080 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 151.81 Mbit/s
95th percentile per-packet one-way delay: 3.005 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 160.65 Mbit/s
95th percentile per-packet one-way delay: 2.943 ms
Loss rate: 0.21%

Run 10: Report of PCC-Allegro — Data Link

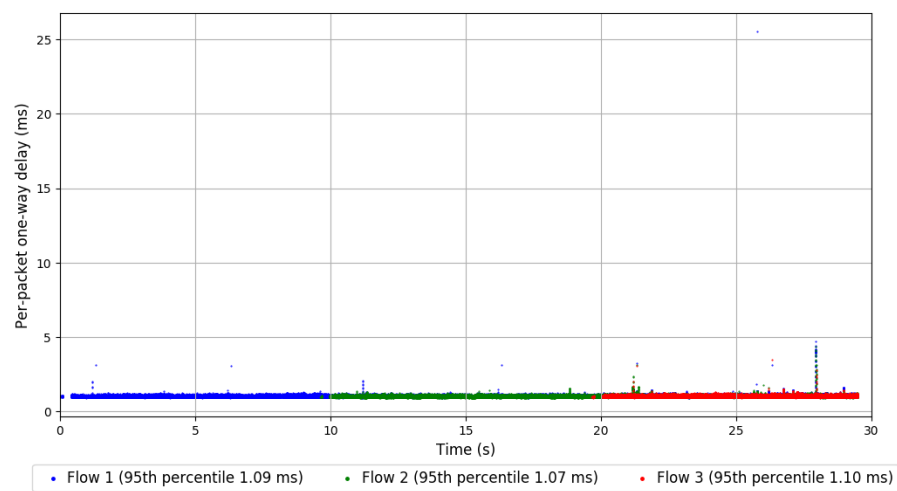
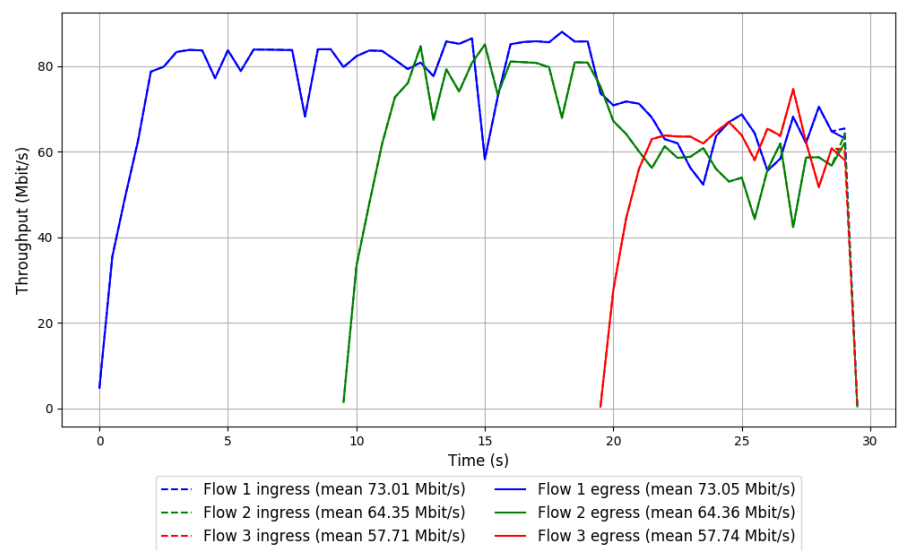


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 13:18:14
End at: 2018-04-17 13:18:44
Local clock offset: 0.412 ms
Remote clock offset: -5.149 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.62 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 73.05 Mbit/s
95th percentile per-packet one-way delay: 1.087 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 64.36 Mbit/s
95th percentile per-packet one-way delay: 1.074 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 57.74 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.24%

Run 1: Report of QUIC Cubic — Data Link

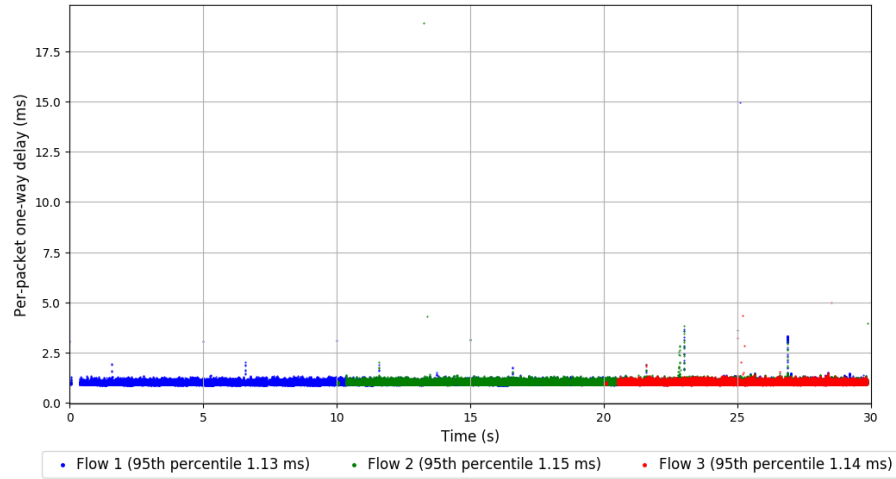
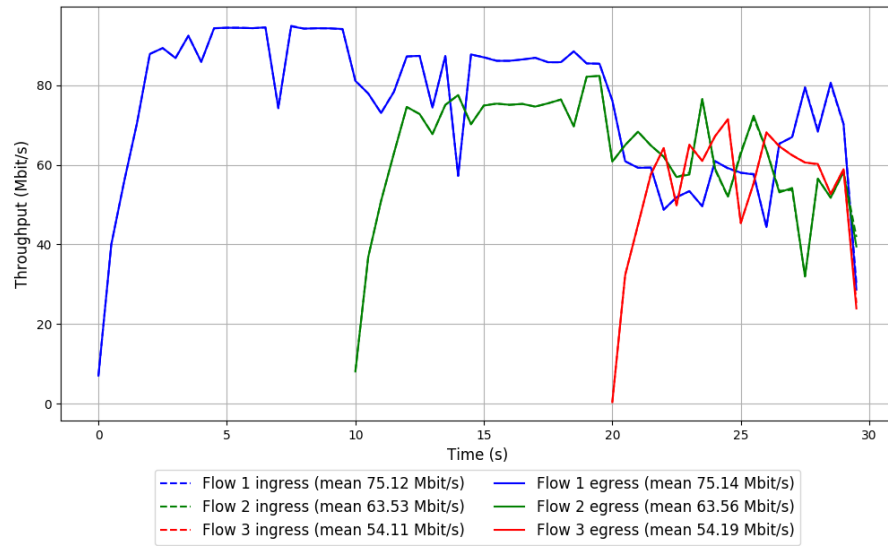


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 13:44:57
End at: 2018-04-17 13:45:27
Local clock offset: 0.044 ms
Remote clock offset: -5.106 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.25 Mbit/s
95th percentile per-packet one-way delay: 1.141 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 75.14 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 63.56 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 54.19 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.14%

Run 2: Report of QUIC Cubic — Data Link

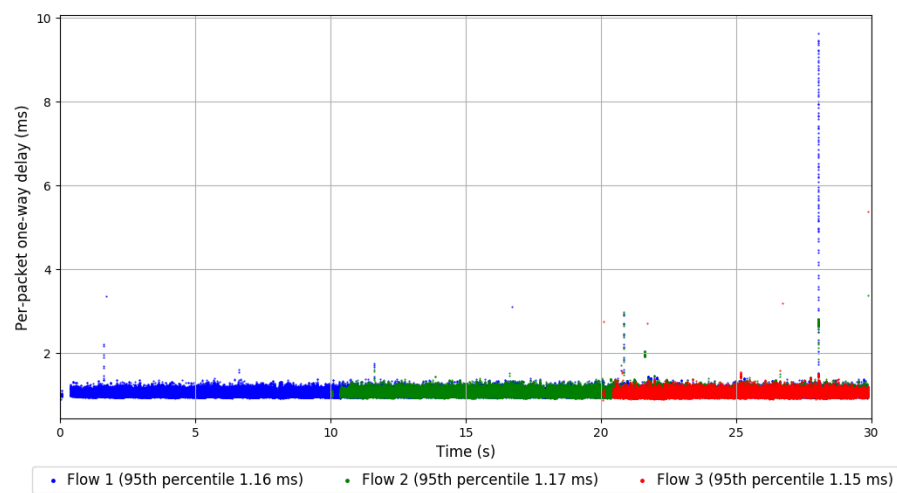
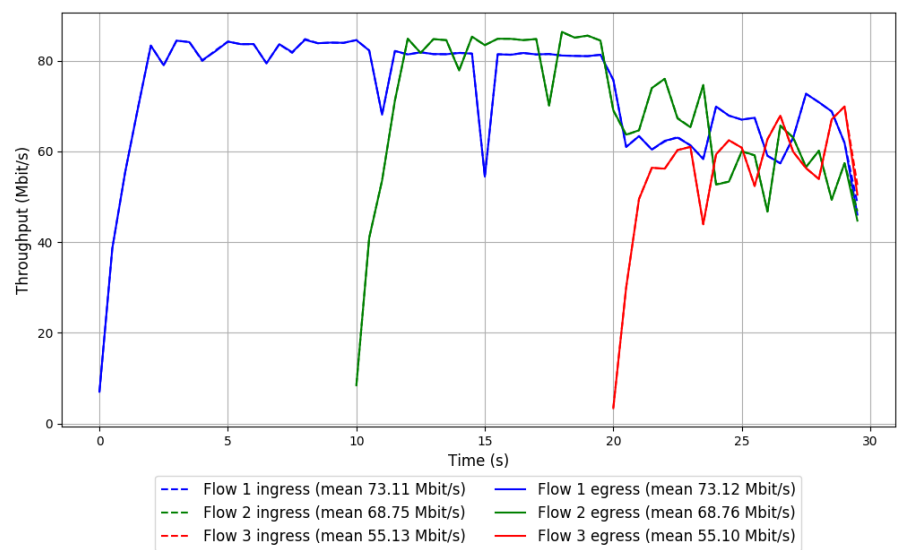


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 14:11:29
End at: 2018-04-17 14:11:59
Local clock offset: 0.373 ms
Remote clock offset: -5.166 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.96 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 73.12 Mbit/s
95th percentile per-packet one-way delay: 1.158 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 68.76 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.21%

Run 3: Report of QUIC Cubic — Data Link

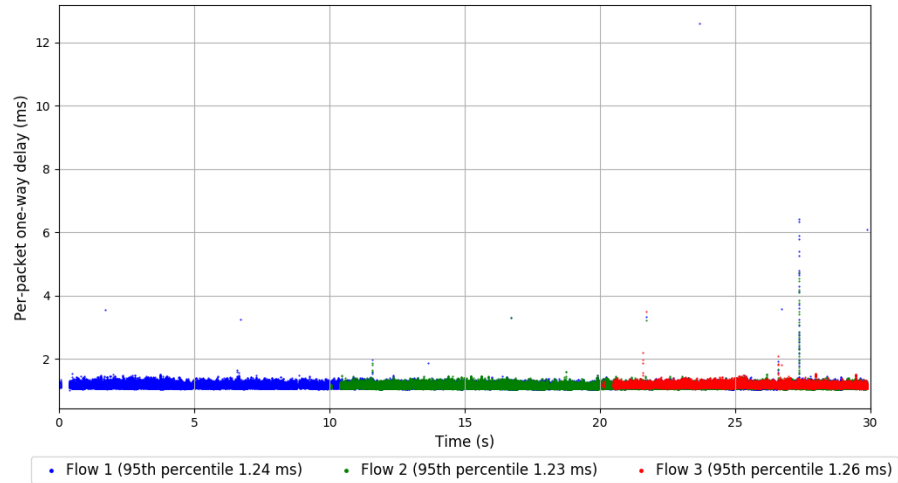
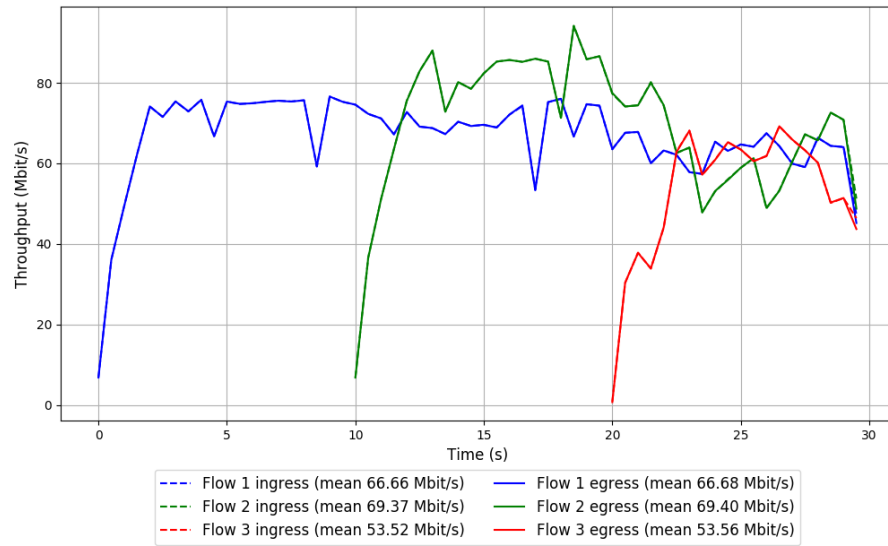


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 14:38:06
End at: 2018-04-17 14:38:36
Local clock offset: 0.308 ms
Remote clock offset: -5.321 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 130.39 Mbit/s
95th percentile per-packet one-way delay: 1.241 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 66.68 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 69.40 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 53.56 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.26%

Run 4: Report of QUIC Cubic — Data Link

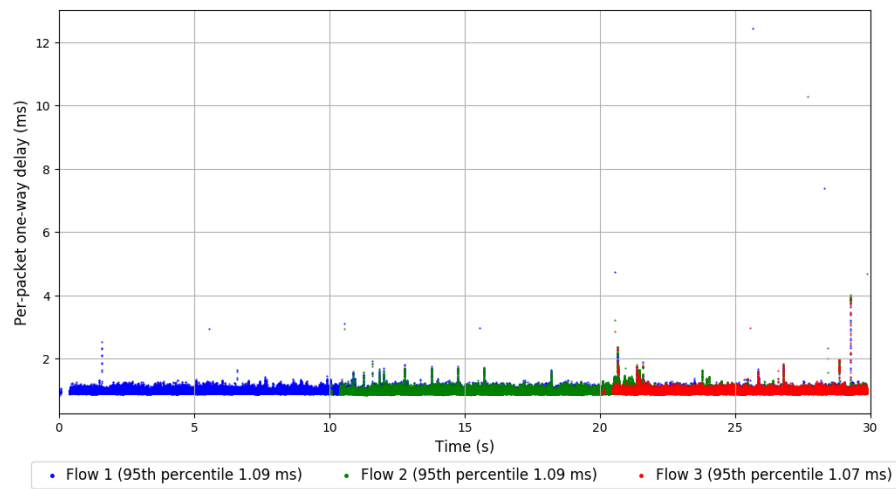
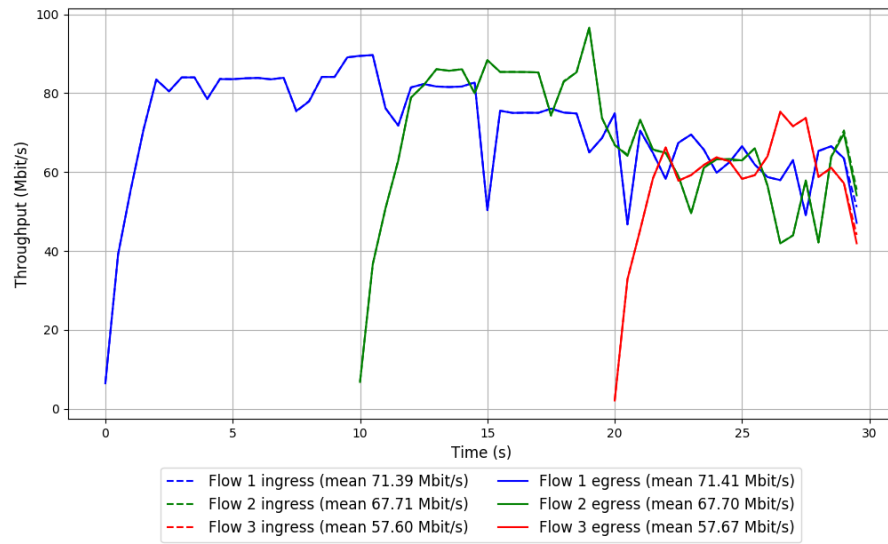


Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 15:04:39
End at: 2018-04-17 15:05:09
Local clock offset: 0.063 ms
Remote clock offset: -5.548 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.32 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 71.41 Mbit/s
95th percentile per-packet one-way delay: 1.089 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 67.70 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 57.67 Mbit/s
95th percentile per-packet one-way delay: 1.071 ms
Loss rate: 0.19%

Run 5: Report of QUIC Cubic — Data Link

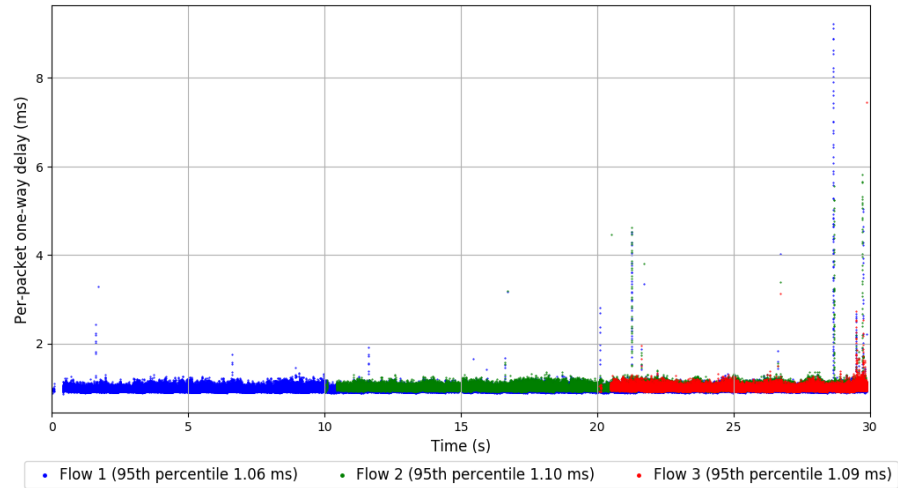
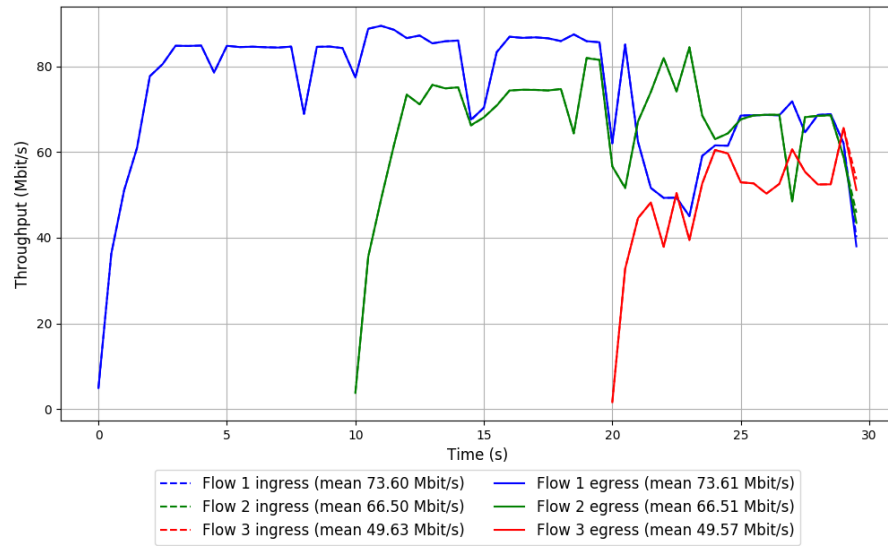


Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 15:31:08
End at: 2018-04-17 15:31:39
Local clock offset: 0.124 ms
Remote clock offset: -6.424 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 134.10 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 73.61 Mbit/s
95th percentile per-packet one-way delay: 1.063 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 66.51 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 49.57 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.27%

Run 6: Report of QUIC Cubic — Data Link

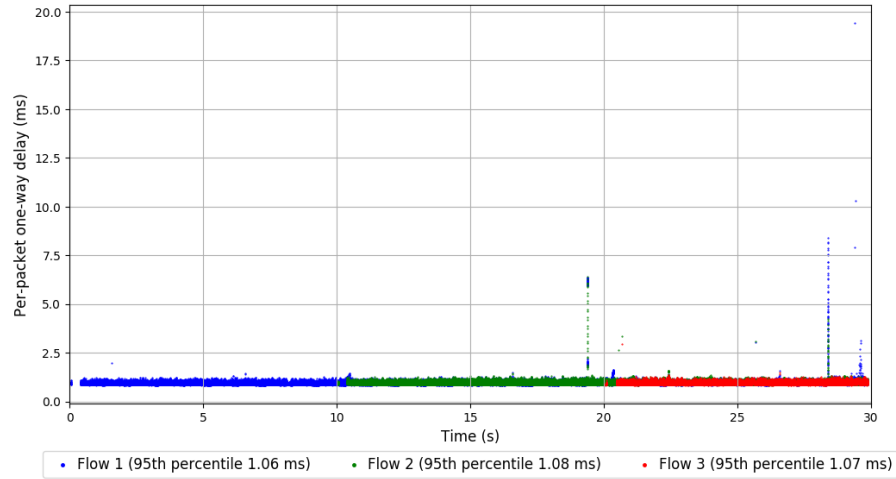
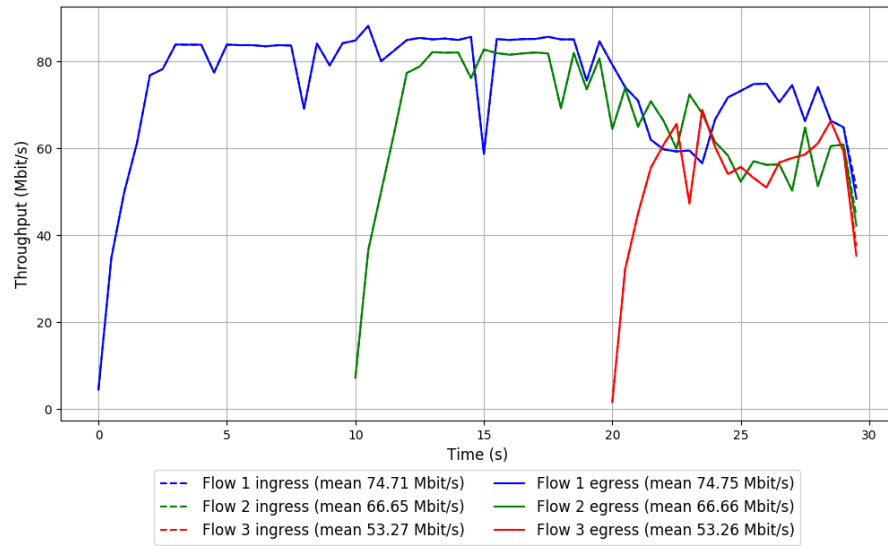


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 15:57:49
End at: 2018-04-17 15:58:19
Local clock offset: 0.157 ms
Remote clock offset: -6.767 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.58 Mbit/s
95th percentile per-packet one-way delay: 1.067 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 74.75 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 66.66 Mbit/s
95th percentile per-packet one-way delay: 1.077 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 53.26 Mbit/s
95th percentile per-packet one-way delay: 1.068 ms
Loss rate: 0.21%

Run 7: Report of QUIC Cubic — Data Link

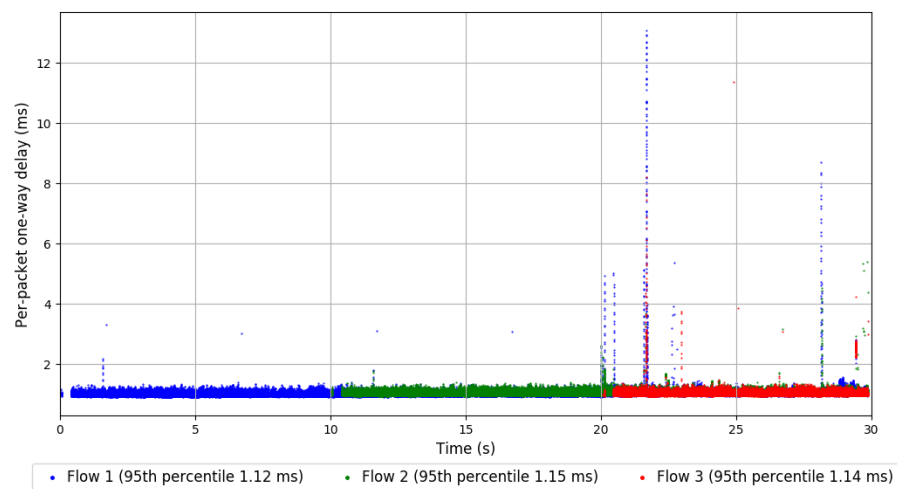
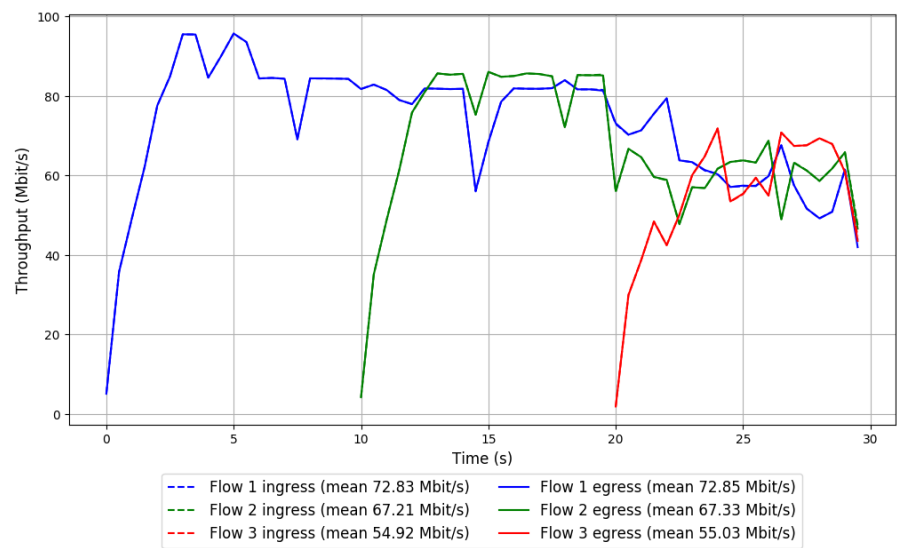


Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 16:24:33
End at: 2018-04-17 16:25:03
Local clock offset: 0.035 ms
Remote clock offset: -6.729 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.68 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 67.33 Mbit/s
95th percentile per-packet one-way delay: 1.149 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 55.03 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.14%

Run 8: Report of QUIC Cubic — Data Link

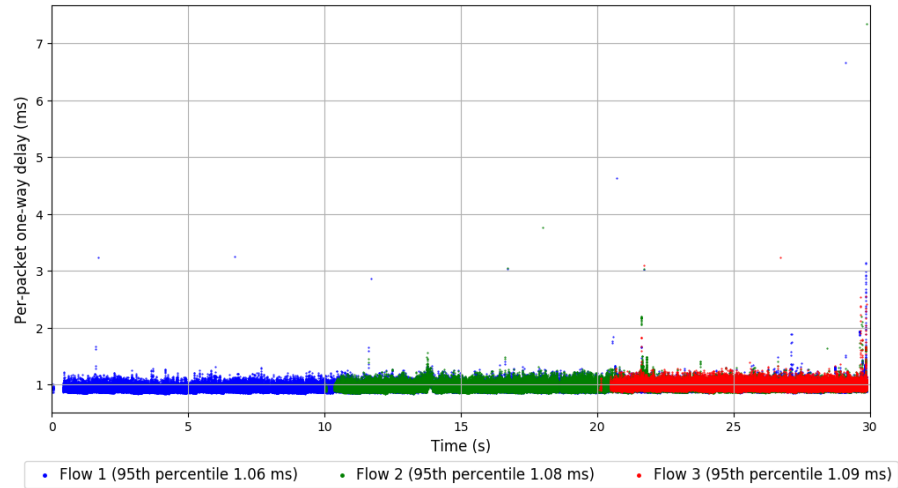
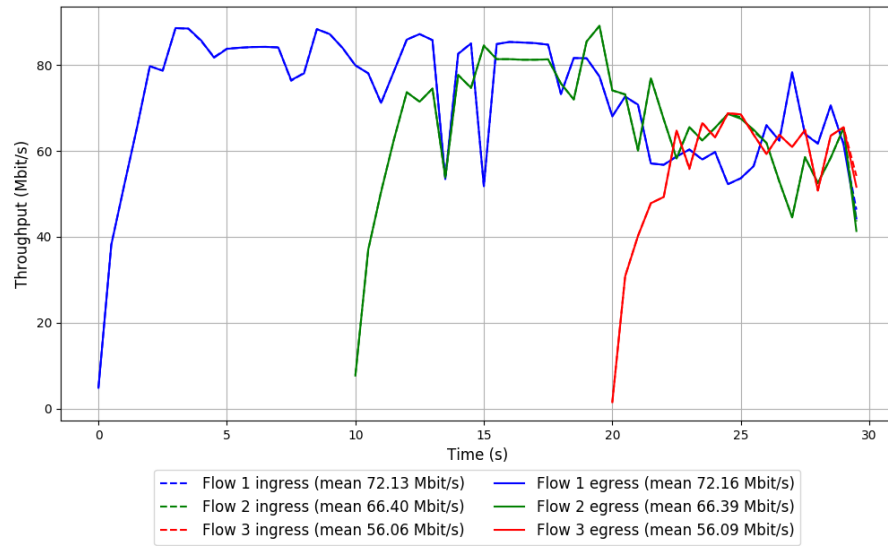


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 16:51:09
End at: 2018-04-17 16:51:39
Local clock offset: -0.095 ms
Remote clock offset: -6.391 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 134.72 Mbit/s
95th percentile per-packet one-way delay: 1.072 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 72.16 Mbit/s
95th percentile per-packet one-way delay: 1.060 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 66.39 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 56.09 Mbit/s
95th percentile per-packet one-way delay: 1.091 ms
Loss rate: 0.23%

Run 9: Report of QUIC Cubic — Data Link

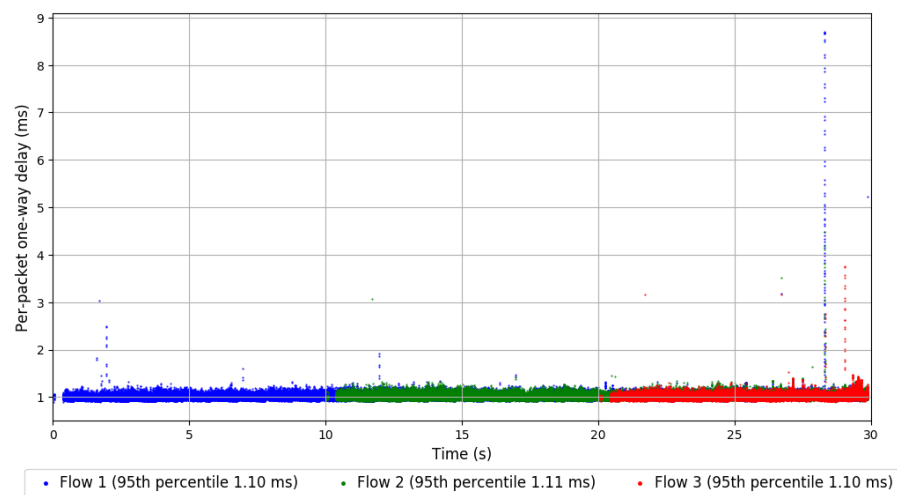
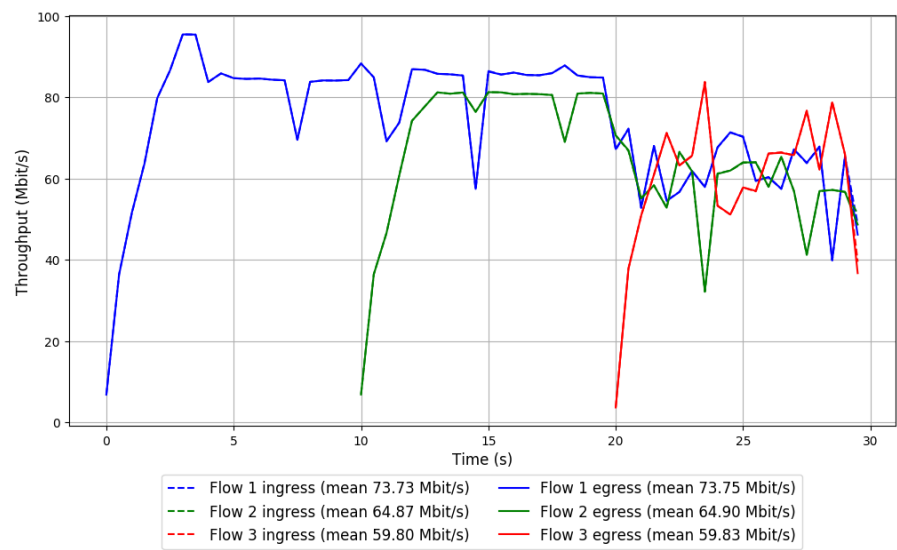


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 17:17:46
End at: 2018-04-17 17:18:16
Local clock offset: -0.071 ms
Remote clock offset: -6.268 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 136.56 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 73.75 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 64.90 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 59.83 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.24%

Run 10: Report of QUIC Cubic — Data Link

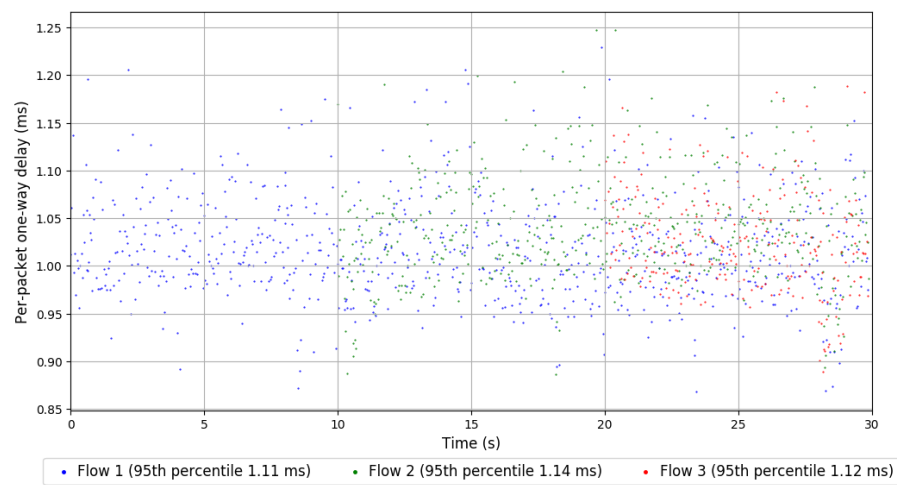
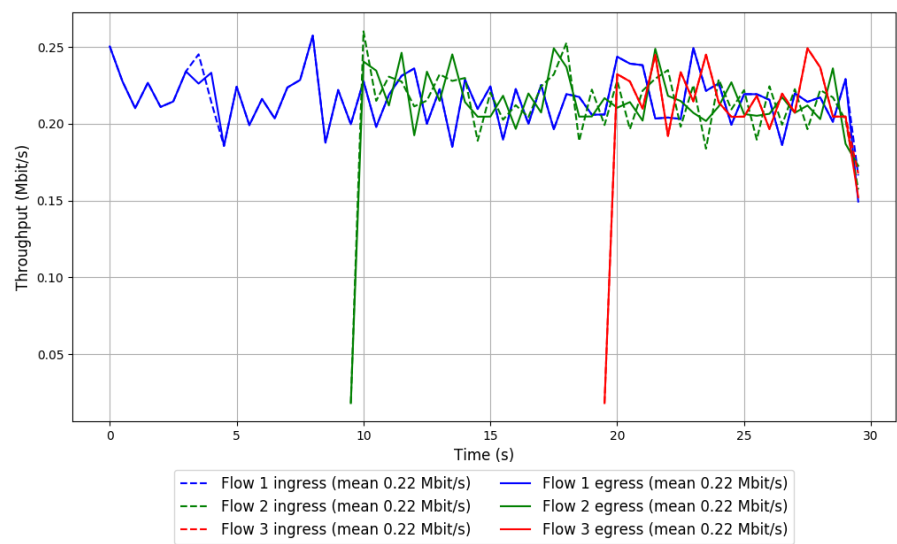


```
Run 1: Statistics of SReAM

Start at: 2018-04-17 13:13:52
End at: 2018-04-17 13:14:22
Local clock offset: 0.316 ms
Remote clock offset: -5.296 ms

# Below is generated by plot.py at 2018-04-17 23:08:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.144 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.35%
```

Run 1: Report of SReAM — Data Link

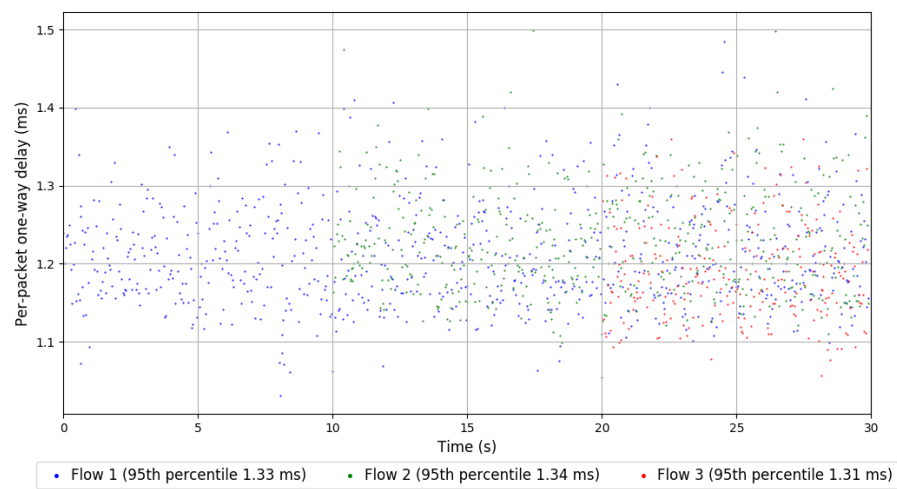
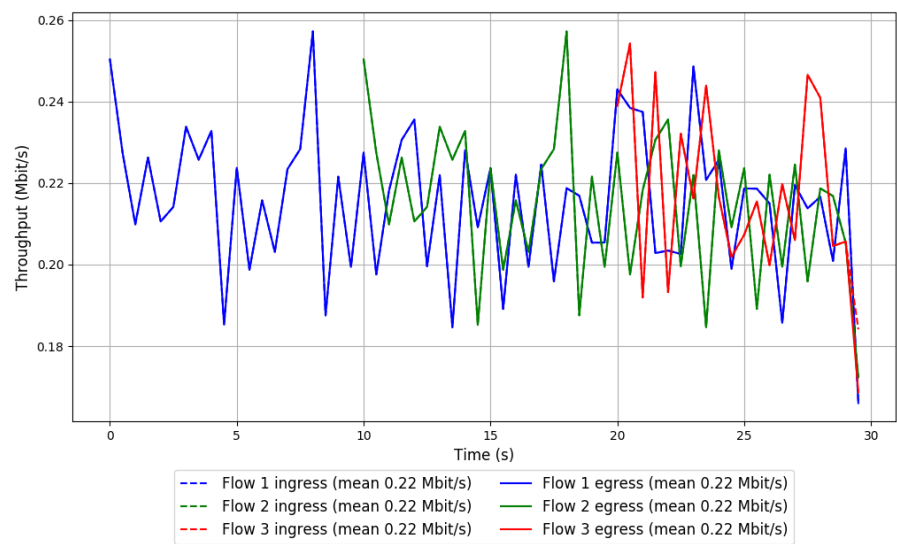


Run 2: Statistics of SReAM

Start at: 2018-04-17 13:40:32
End at: 2018-04-17 13:41:02
Local clock offset: 0.15 ms
Remote clock offset: -5.141 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.335 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.342 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.313 ms
Loss rate: 0.35%

Run 2: Report of SReAM — Data Link

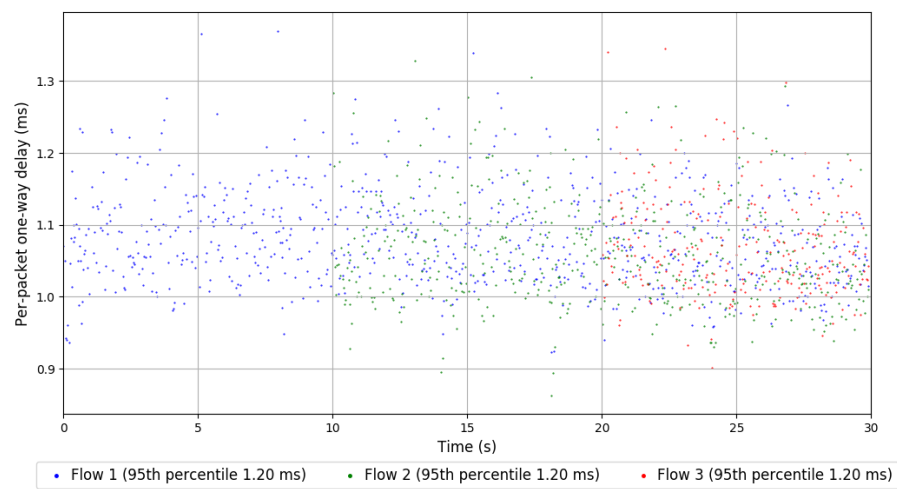
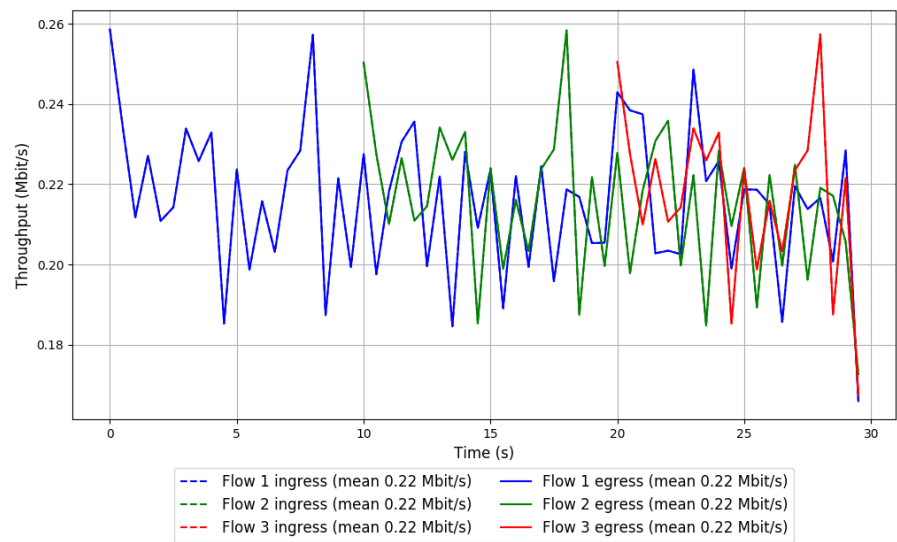


Run 3: Statistics of SReAM

Start at: 2018-04-17 14:07:06
End at: 2018-04-17 14:07:36
Local clock offset: 0.227 ms
Remote clock offset: -5.051 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.199 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.198 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

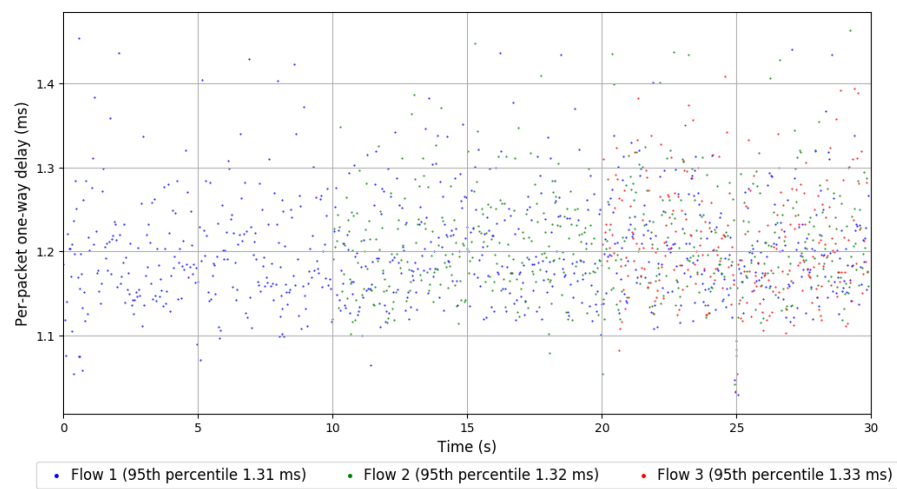
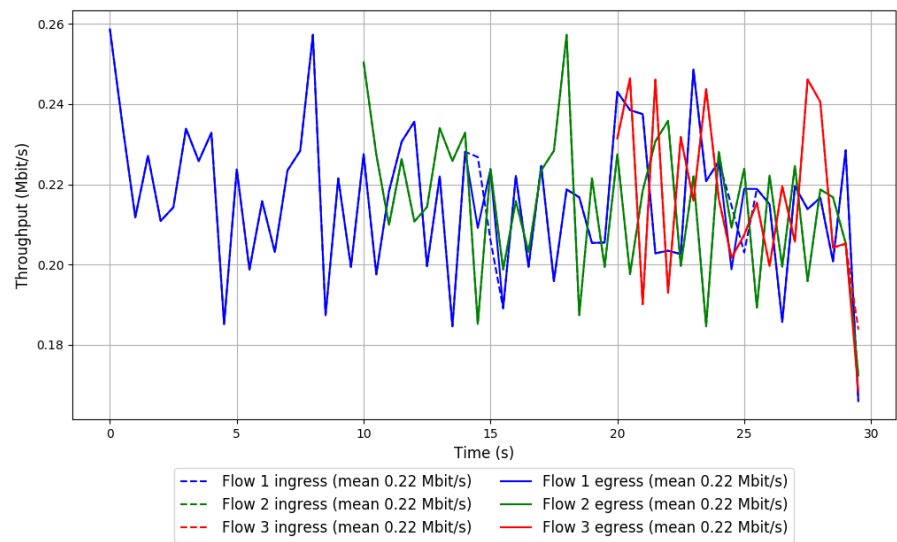


Run 4: Statistics of SReAM

Start at: 2018-04-17 14:33:44
End at: 2018-04-17 14:34:15
Local clock offset: 0.341 ms
Remote clock offset: -5.329 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.320 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.315 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.328 ms
Loss rate: 0.35%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-04-17 15:00:16

End at: 2018-04-17 15:00:46

Local clock offset: 0.186 ms

Remote clock offset: -5.54 ms

Below is generated by plot.py at 2018-04-17 23:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.293 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.291 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.304 ms

Loss rate: 0.00%

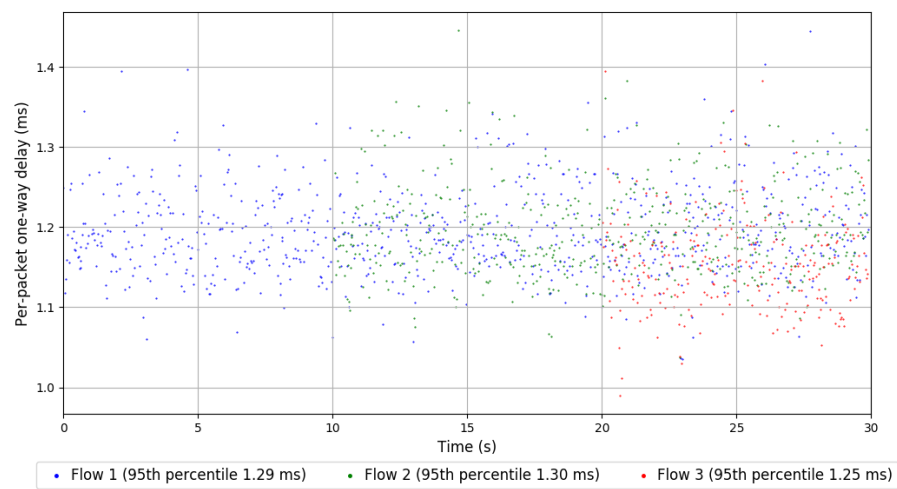
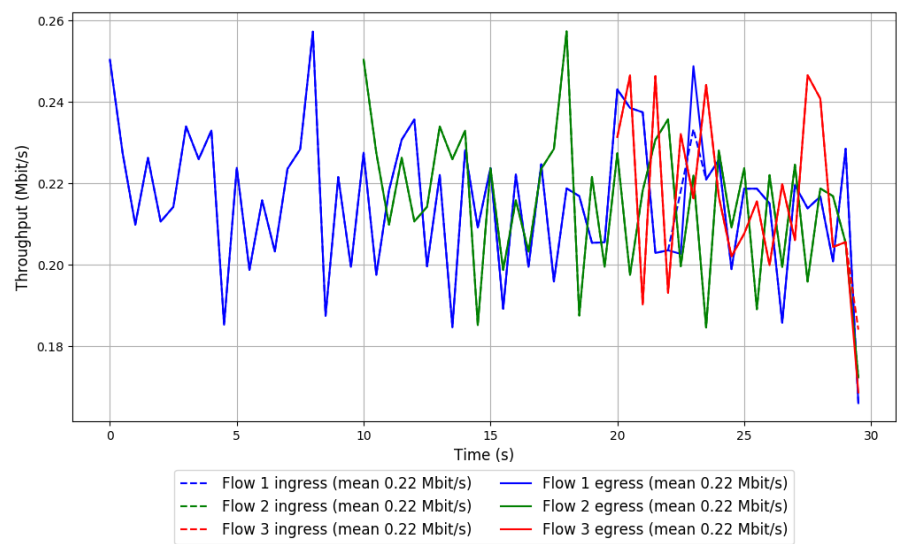
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.252 ms

Loss rate: 0.35%

Run 5: Report of SReAM — Data Link

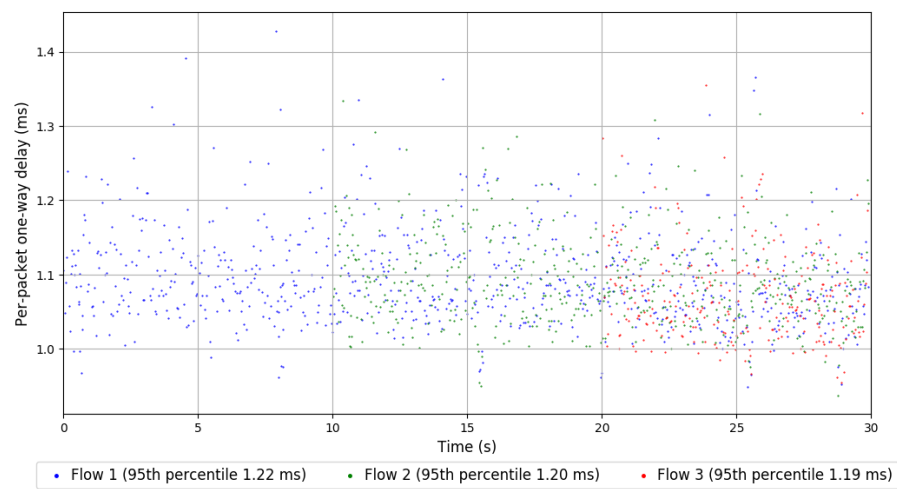
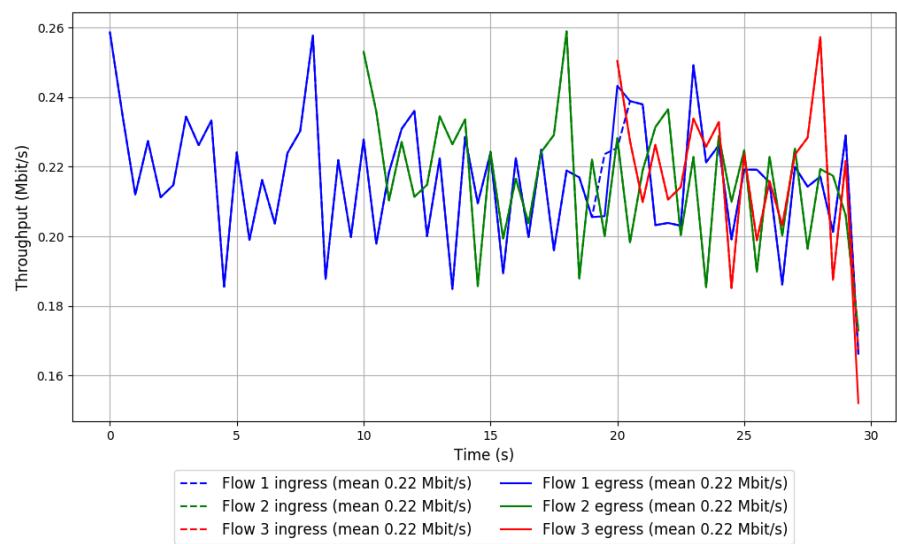


Run 6: Statistics of SReAM

Start at: 2018-04-17 15:26:43
End at: 2018-04-17 15:27:13
Local clock offset: 0.106 ms
Remote clock offset: -6.309 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.06%
-- 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: 1.201 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.35%

Run 6: Report of SReAM — Data Link

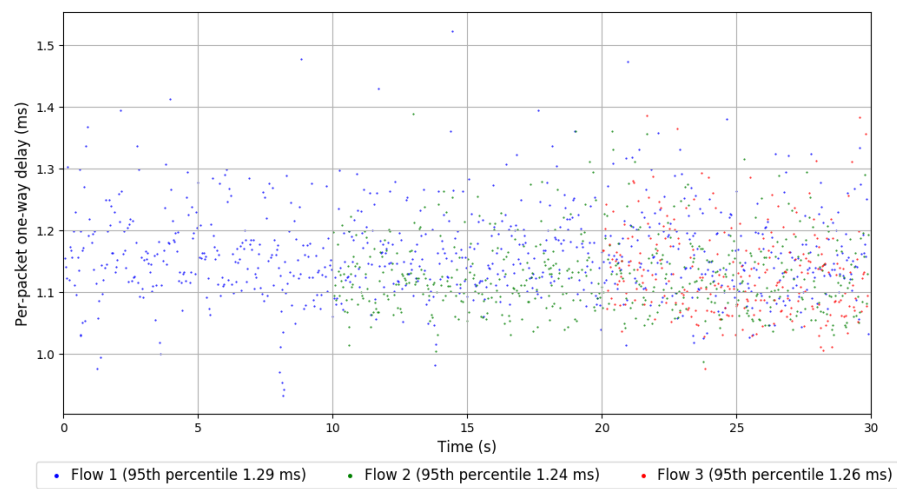
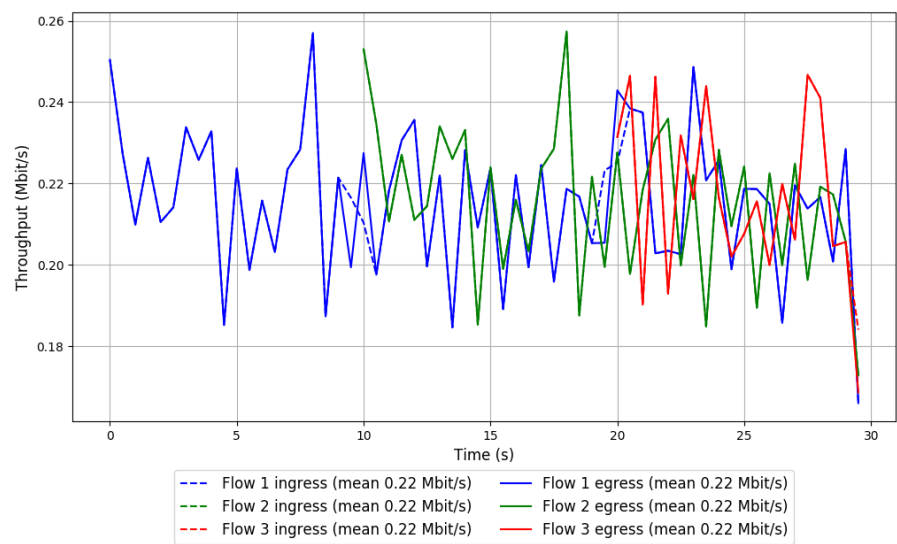


Run 7: Statistics of SReAM

Start at: 2018-04-17 15:53:24
End at: 2018-04-17 15:53:54
Local clock offset: 0.168 ms
Remote clock offset: -6.803 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.276 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.243 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.260 ms
Loss rate: 0.35%

Run 7: Report of SReAM — Data Link

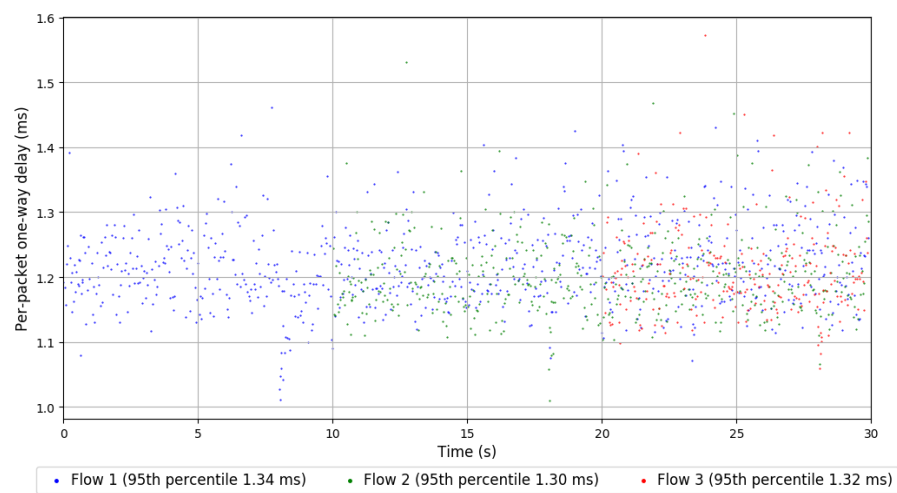
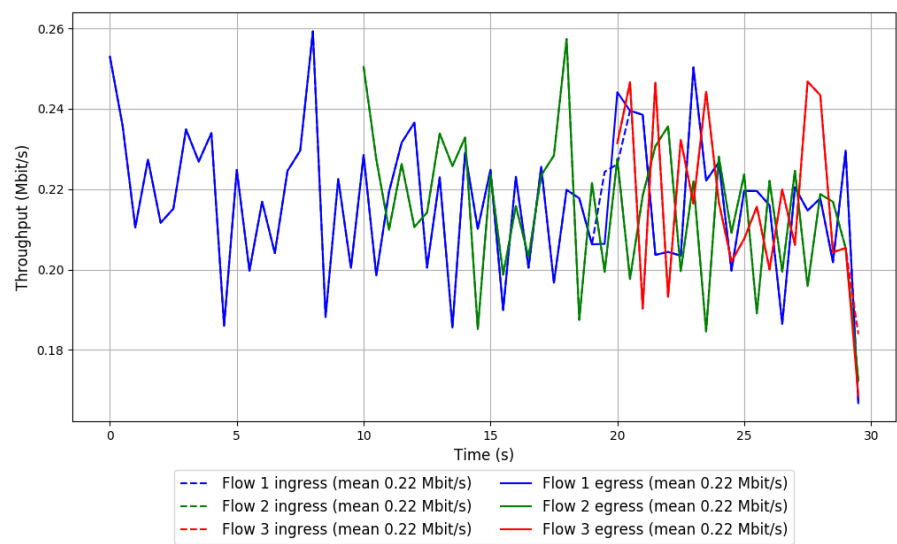


Run 8: Statistics of SReAM

Start at: 2018-04-17 16:20:10
End at: 2018-04-17 16:20:40
Local clock offset: 0.103 ms
Remote clock offset: -6.944 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.339 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.305 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.324 ms
Loss rate: 0.35%

Run 8: Report of SReAM — Data Link

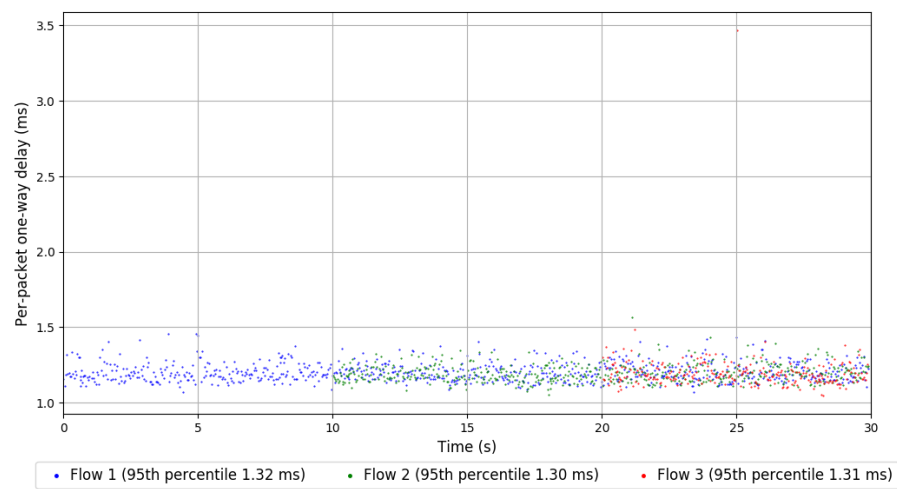
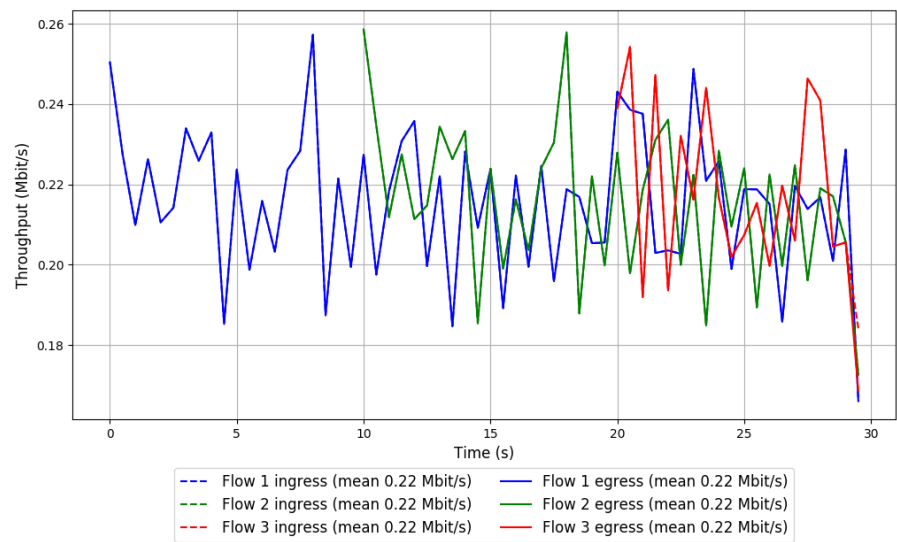


Run 9: Statistics of SReAM

Start at: 2018-04-17 16:46:43
End at: 2018-04-17 16:47:13
Local clock offset: -0.123 ms
Remote clock offset: -6.559 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.322 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.305 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 9: Report of SReAM — Data Link

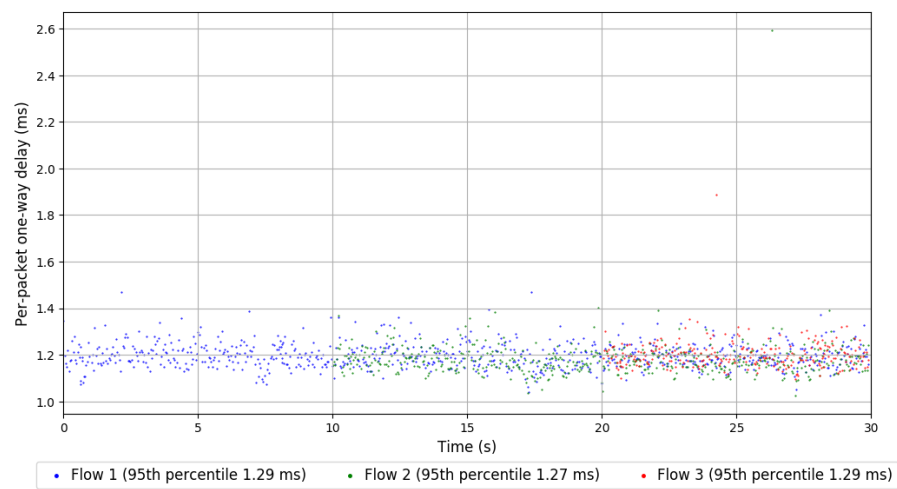
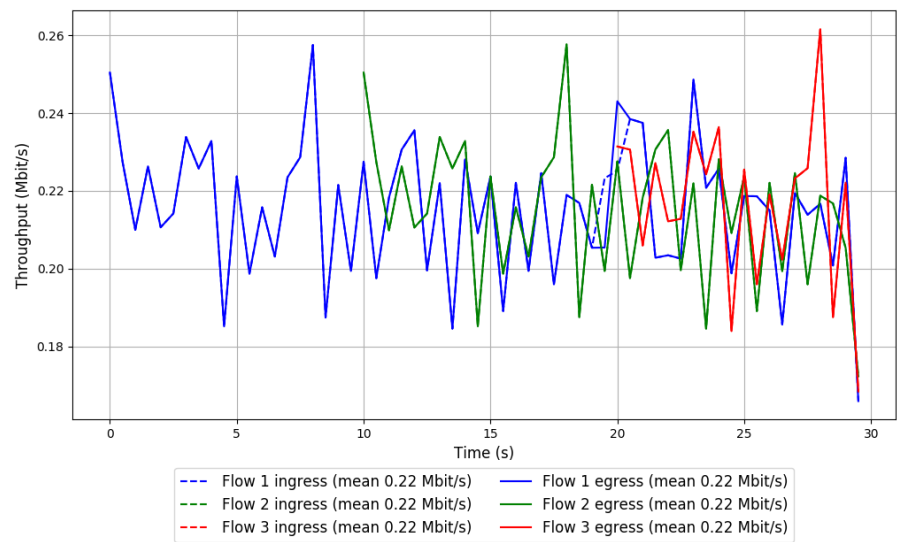


Run 10: Statistics of SCReAM

Start at: 2018-04-17 17:13:20
End at: 2018-04-17 17:13:50
Local clock offset: -0.05 ms
Remote clock offset: -6.363 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.290 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.266 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

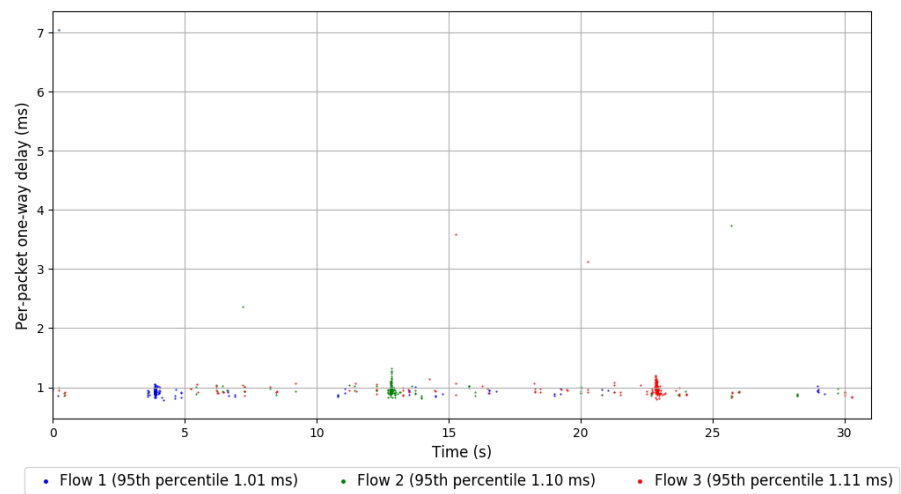
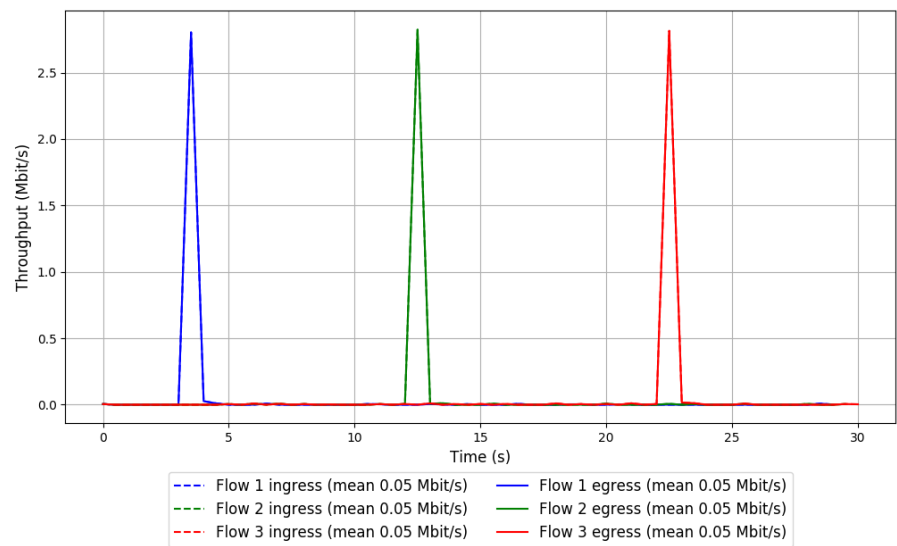


Run 1: Statistics of WebRTC media

Start at: 2018-04-17 13:27:42
End at: 2018-04-17 13:28:12
Local clock offset: 0.204 ms
Remote clock offset: -4.898 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 13:54:23

End at: 2018-04-17 13:54:53

Local clock offset: 0.115 ms

Remote clock offset: -5.01 ms

Below is generated by plot.py at 2018-04-17 23:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.321 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.00%

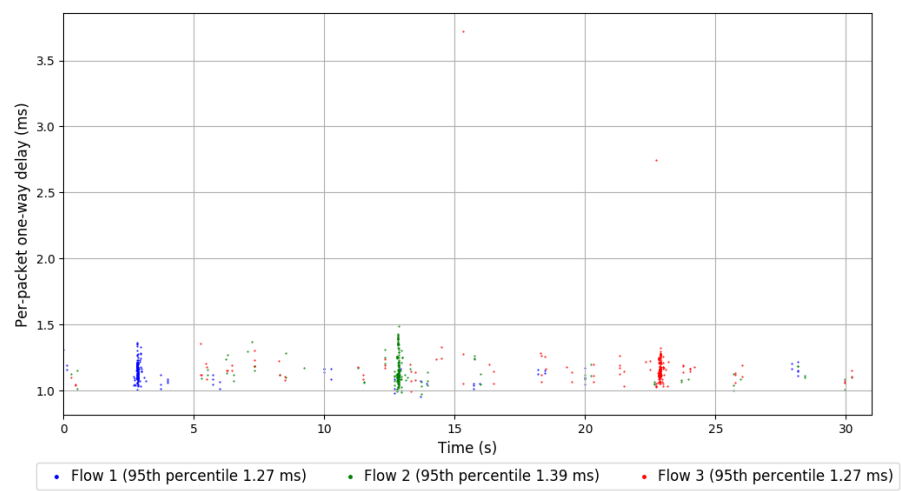
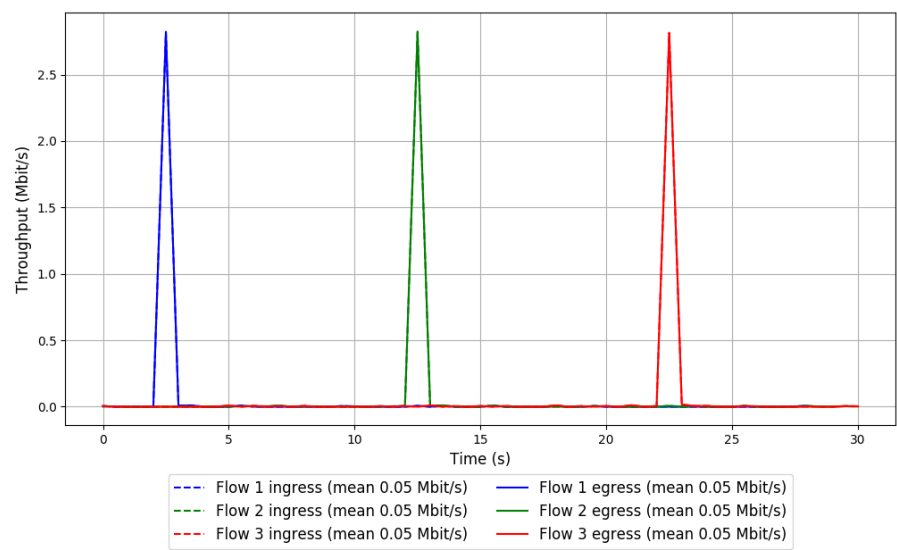
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.273 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 14:20:57

End at: 2018-04-17 14:21:27

Local clock offset: 0.418 ms

Remote clock offset: -5.33 ms

Below is generated by plot.py at 2018-04-17 23:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1.293 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.339 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.218 ms

Loss rate: 0.00%

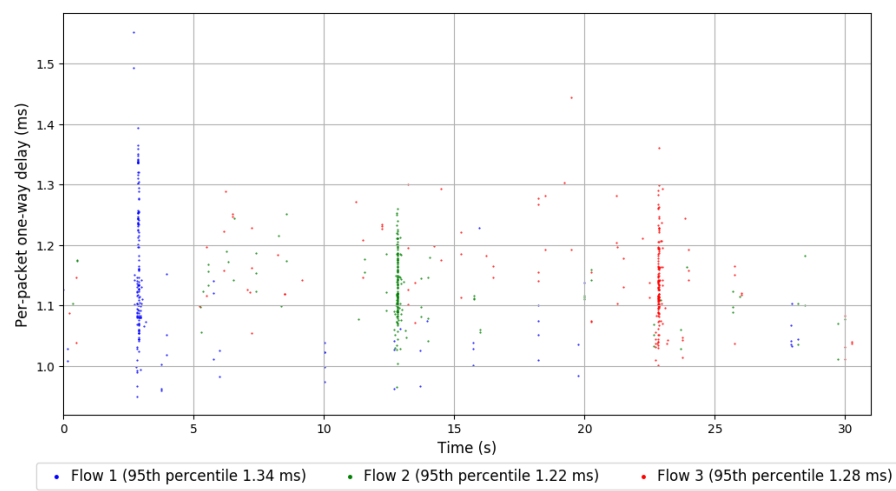
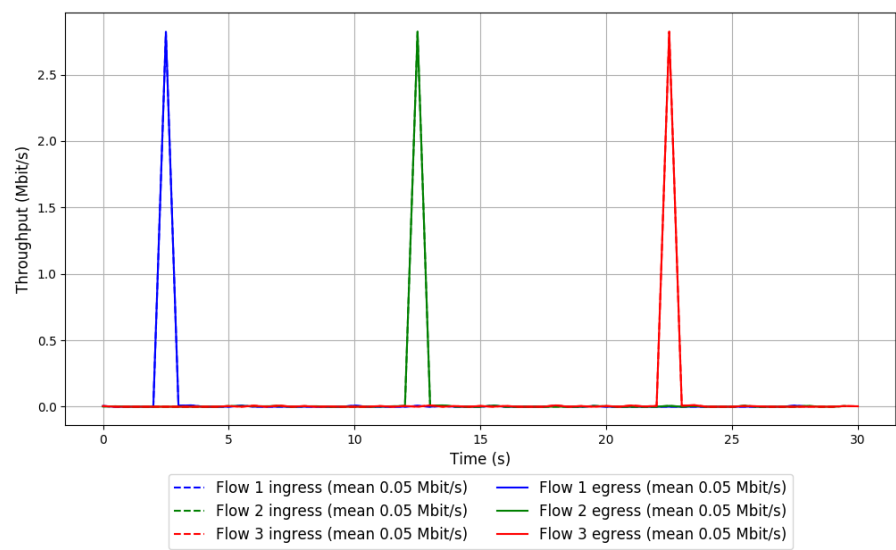
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.282 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

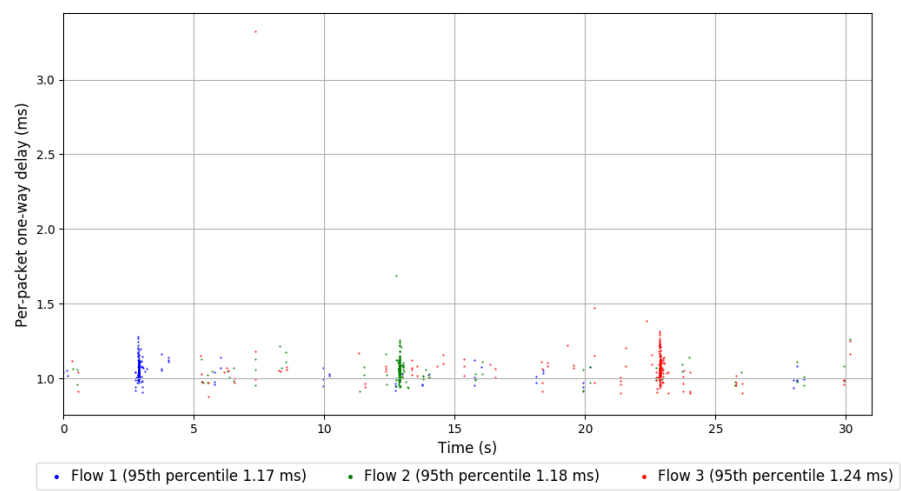
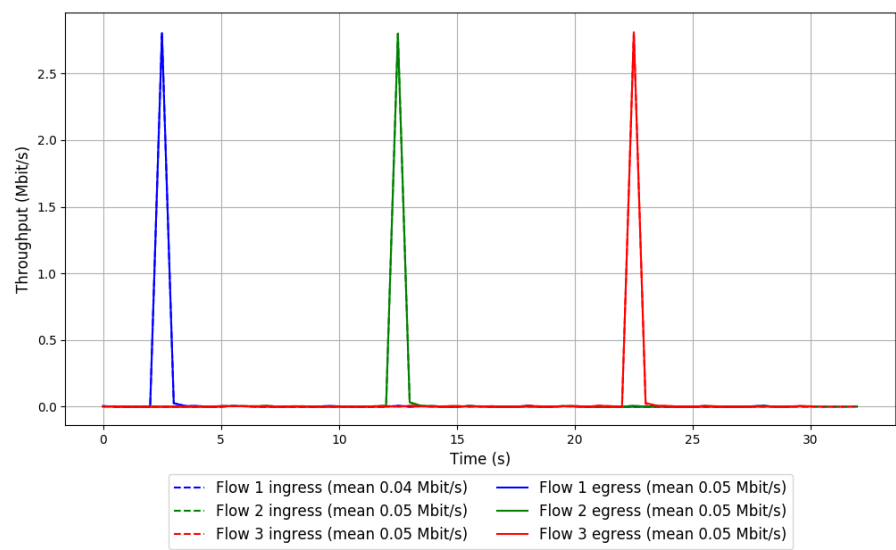


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 14:47:30
End at: 2018-04-17 14:48:00
Local clock offset: 0.188 ms
Remote clock offset: -5.383 ms

```
# Below is generated by plot.py at 2018-04-17 23:08:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.172 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.05%
```

Run 4: Report of WebRTC media — Data Link

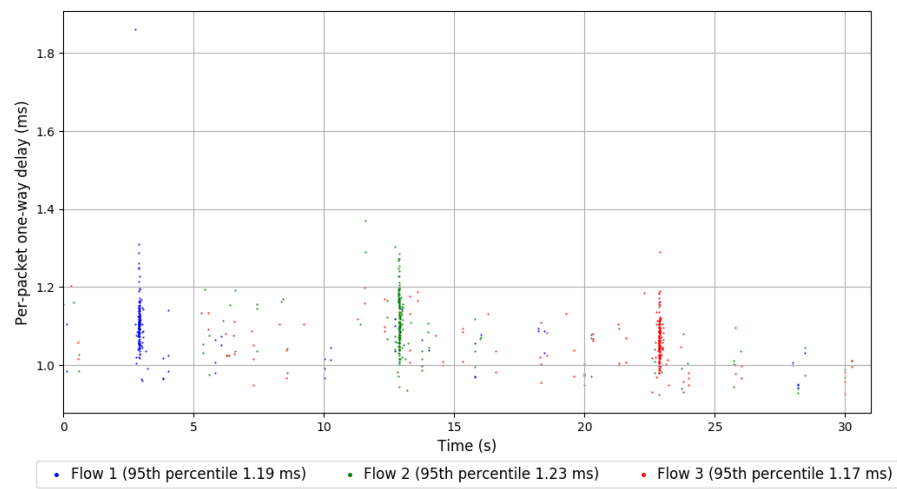
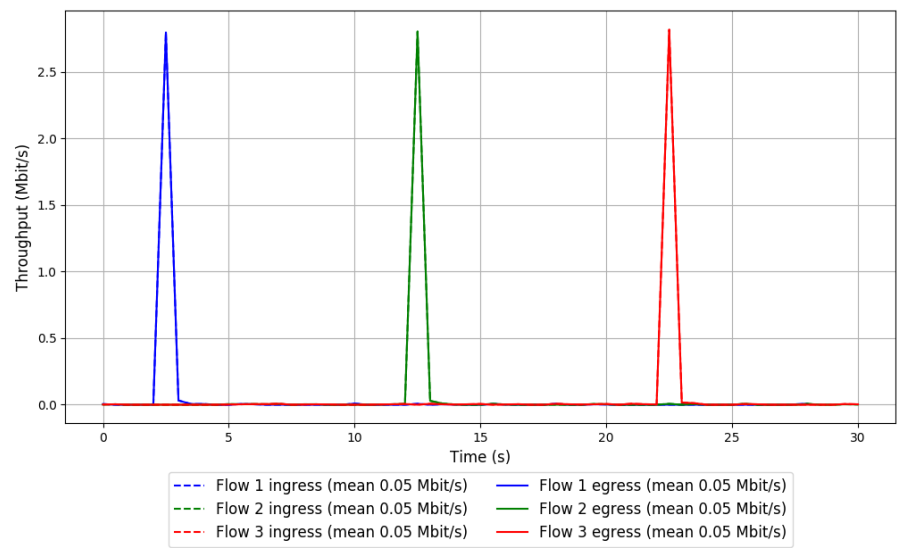


Run 5: Statistics of WebRTC media

Start at: 2018-04-17 15:13:57
End at: 2018-04-17 15:14:27
Local clock offset: 0.135 ms
Remote clock offset: -5.668 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.193 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

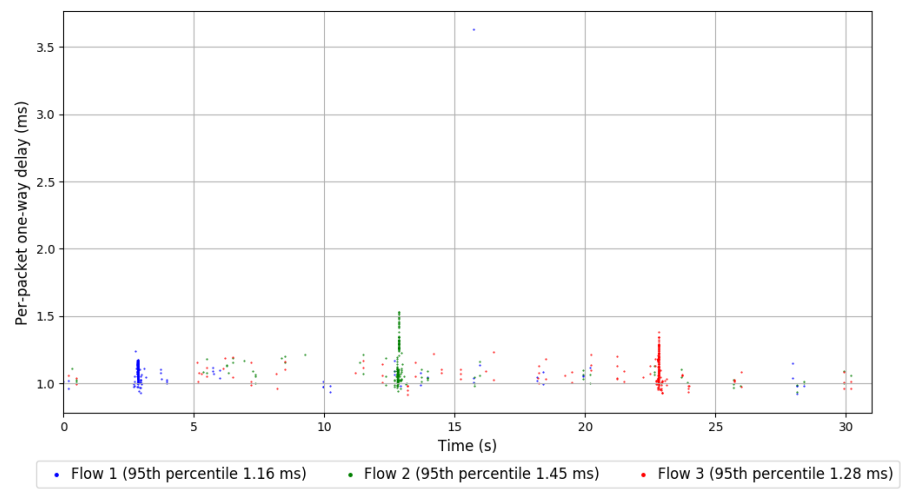
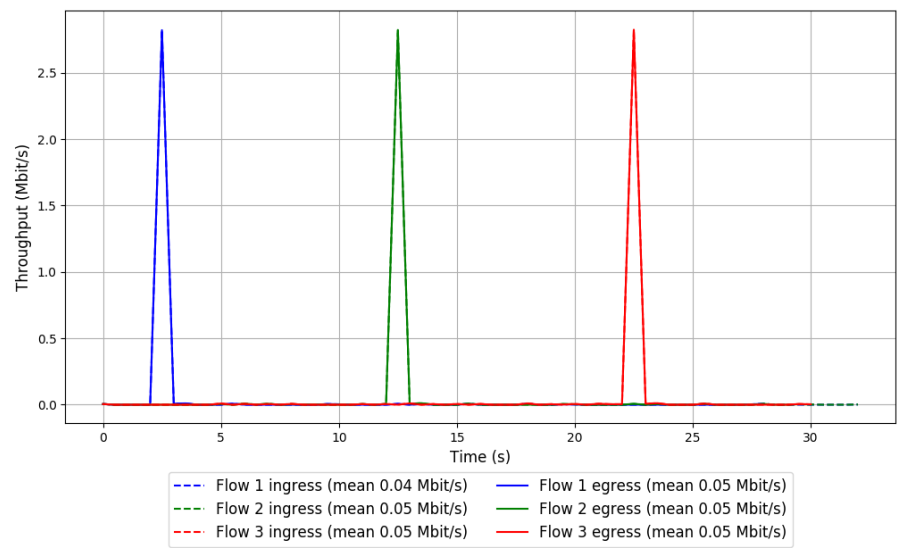


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 15:40:38
End at: 2018-04-17 15:41:08
Local clock offset: 0.176 ms
Remote clock offset: -6.607 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.318 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.164 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.452 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.281 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

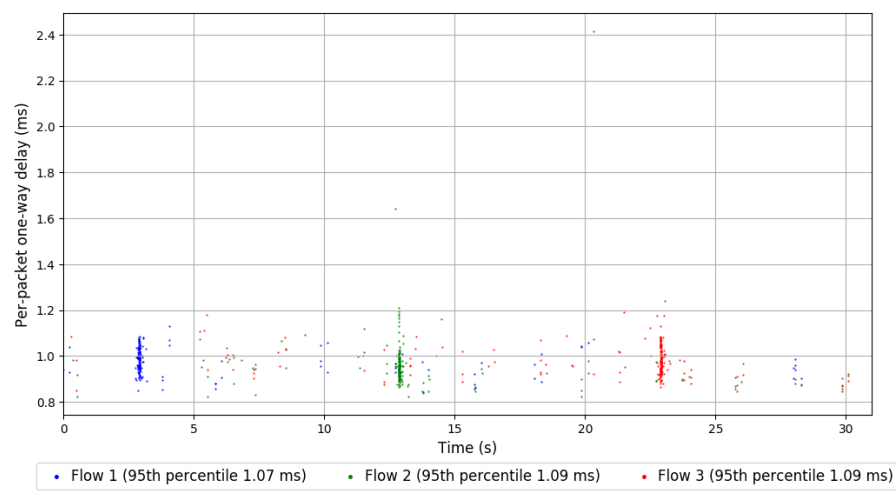
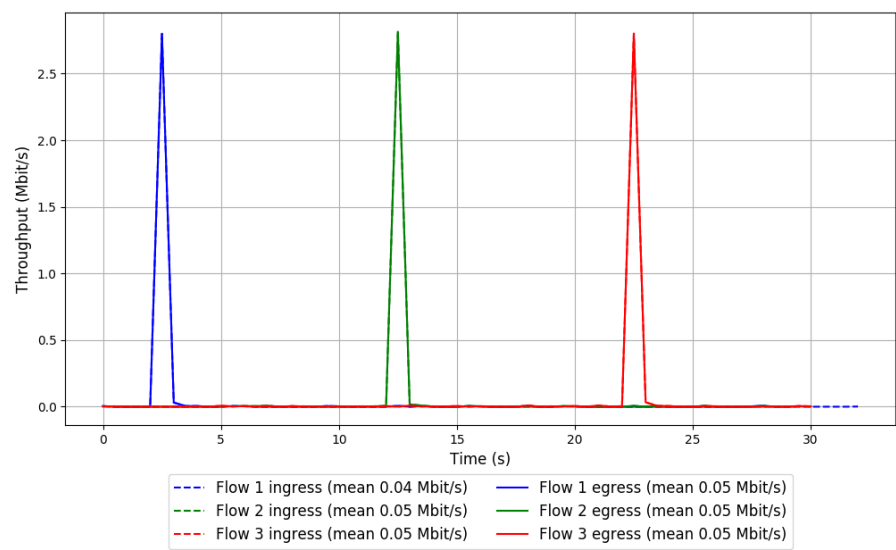


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 16:07:19
End at: 2018-04-17 16:07:49
Local clock offset: 0.186 ms
Remote clock offset: -6.832 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.082 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.090 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

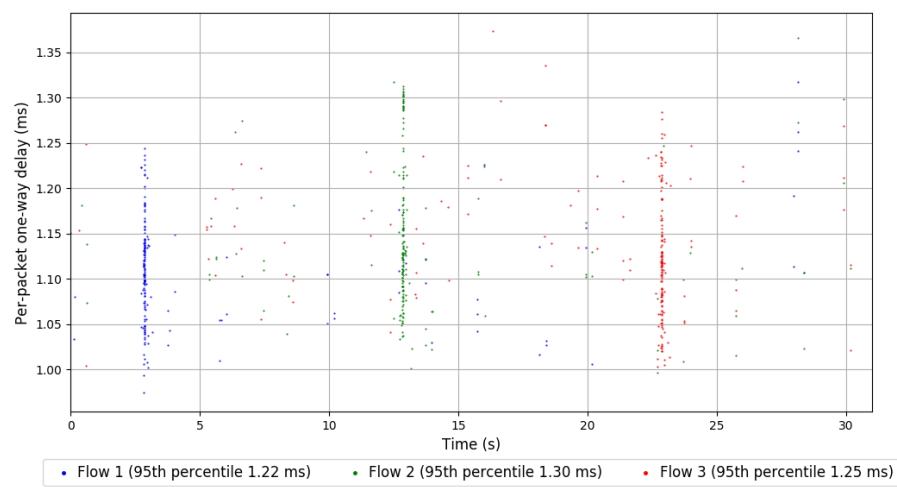
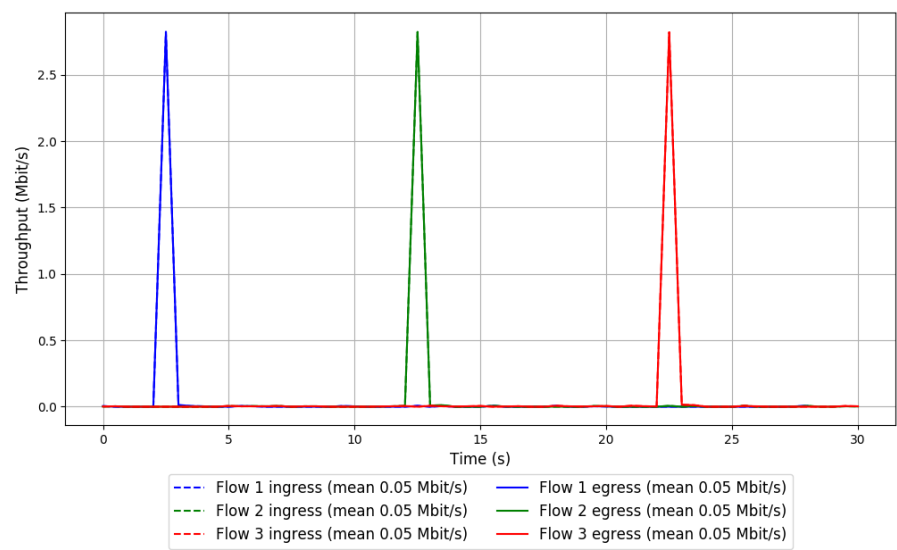


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 16:34:00
End at: 2018-04-17 16:34:30
Local clock offset: -0.063 ms
Remote clock offset: -6.624 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.301 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.249 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

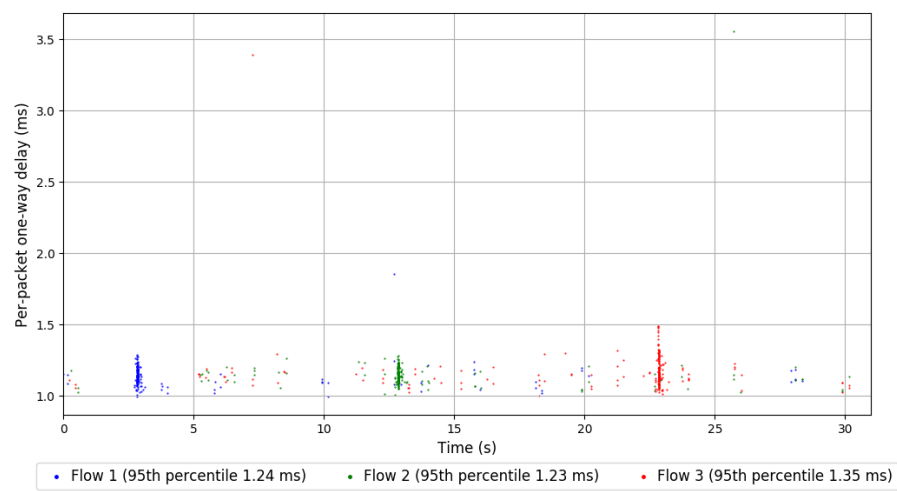
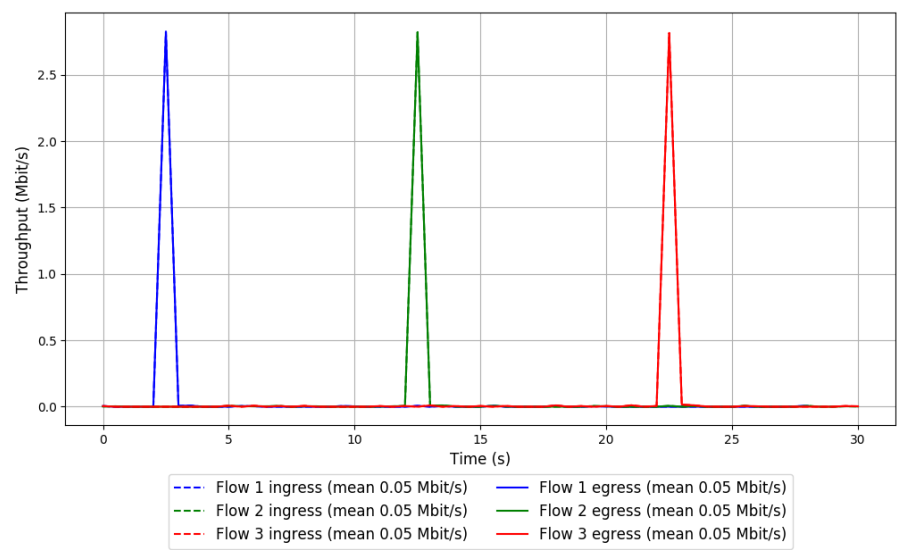


Run 9: Statistics of WebRTC media

Start at: 2018-04-17 17:00:34
End at: 2018-04-17 17:01:04
Local clock offset: -0.058 ms
Remote clock offset: -6.417 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.354 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

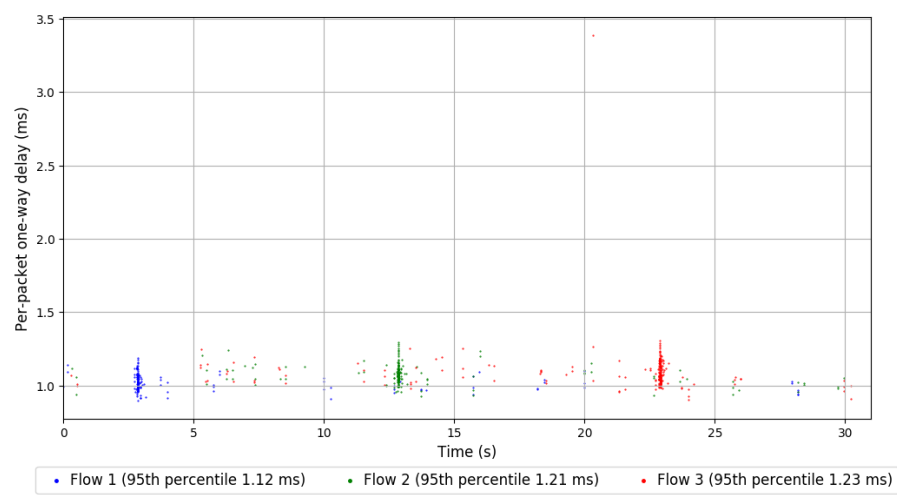
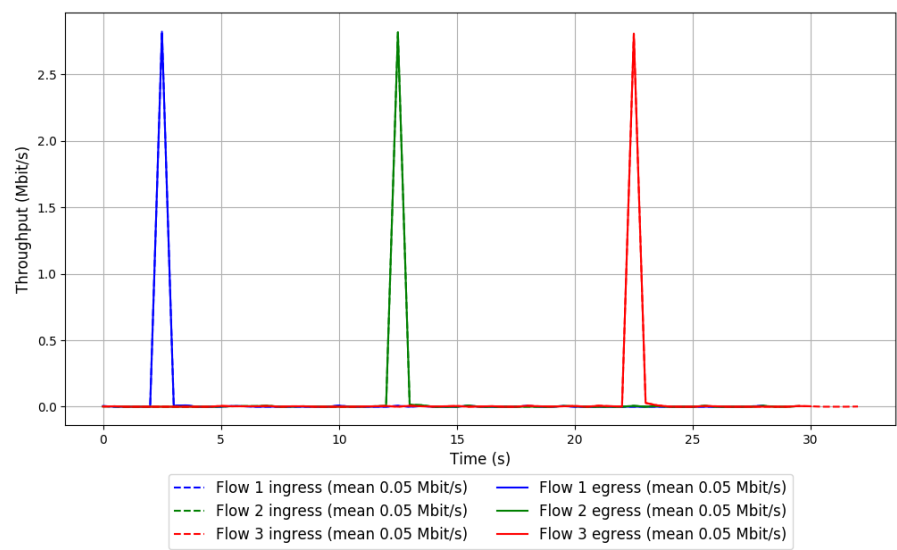


Run 10: Statistics of WebRTC media

Start at: 2018-04-17 17:27:11
End at: 2018-04-17 17:27:41
Local clock offset: -0.11 ms
Remote clock offset: -6.282 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 1.197 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: 1.208 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.230 ms
Loss rate: 0.05%

Run 10: Report of WebRTC media — Data Link

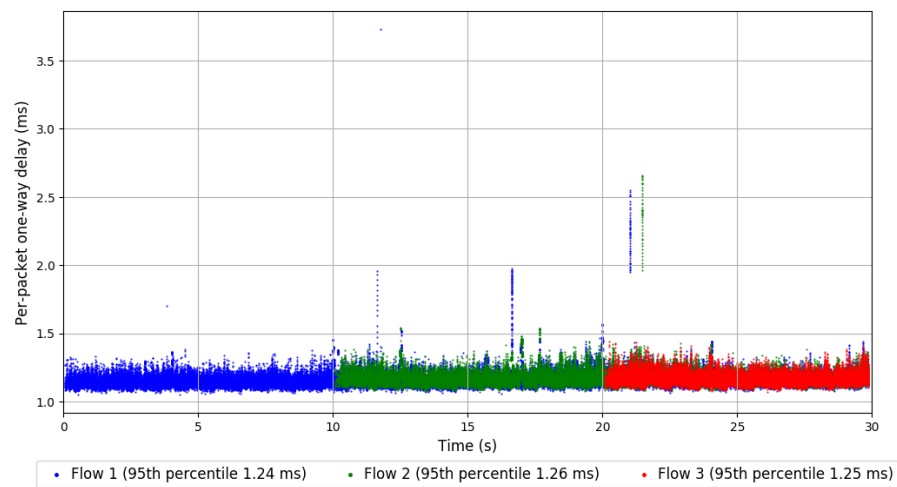
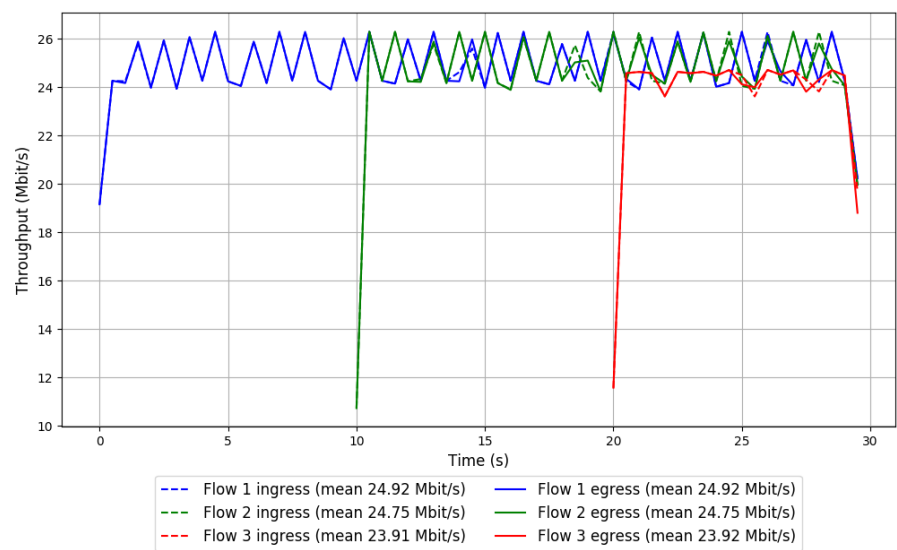


Run 1: Statistics of Sprout

Start at: 2018-04-17 13:23:07
End at: 2018-04-17 13:23:37
Local clock offset: 0.393 ms
Remote clock offset: -5.129 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 1.252 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 1.263 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.92 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.19%

Run 1: Report of Sprout — Data Link

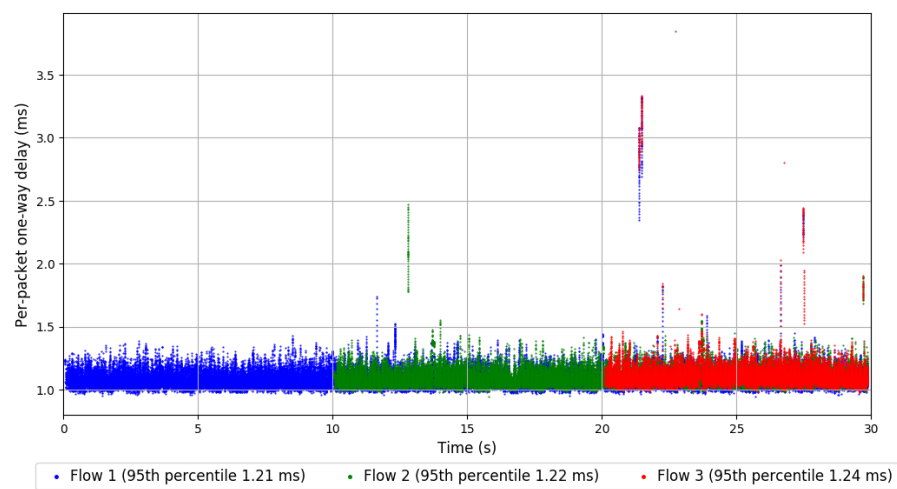
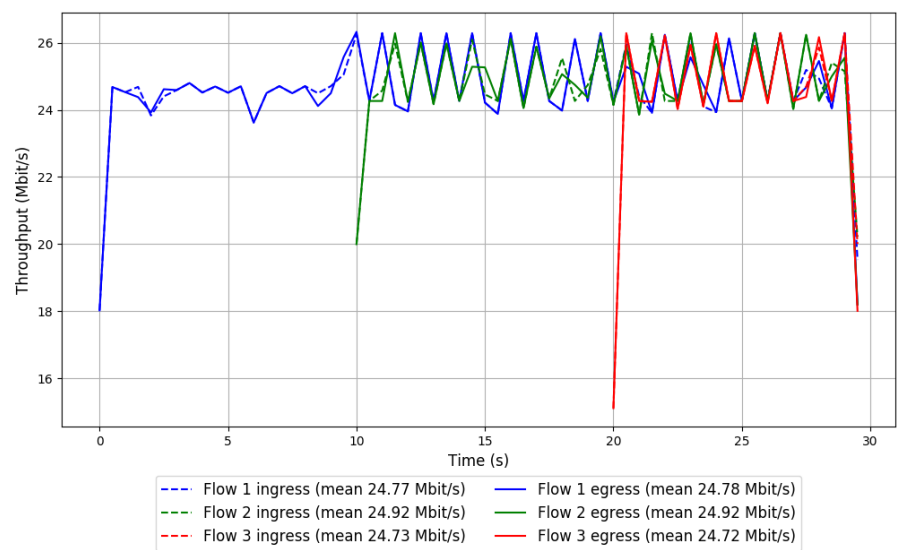


Run 2: Statistics of Sprout

Start at: 2018-04-17 13:49:47
End at: 2018-04-17 13:50:17
Local clock offset: 0.131 ms
Remote clock offset: -5.009 ms

```
# Below is generated by plot.py at 2018-04-17 23:08:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.45 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 24.92 Mbit/s
95th percentile per-packet one-way delay: 1.219 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 1.243 ms
Loss rate: 0.41%
```

Run 2: Report of Sprout — Data Link

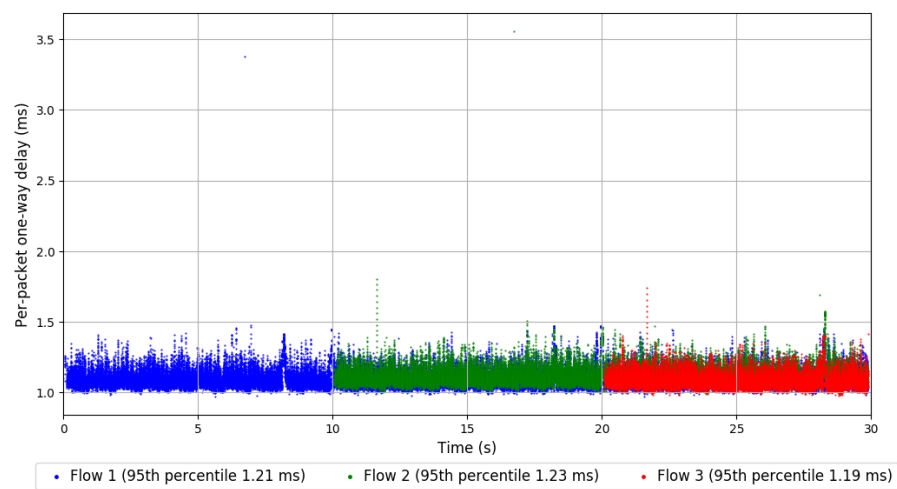
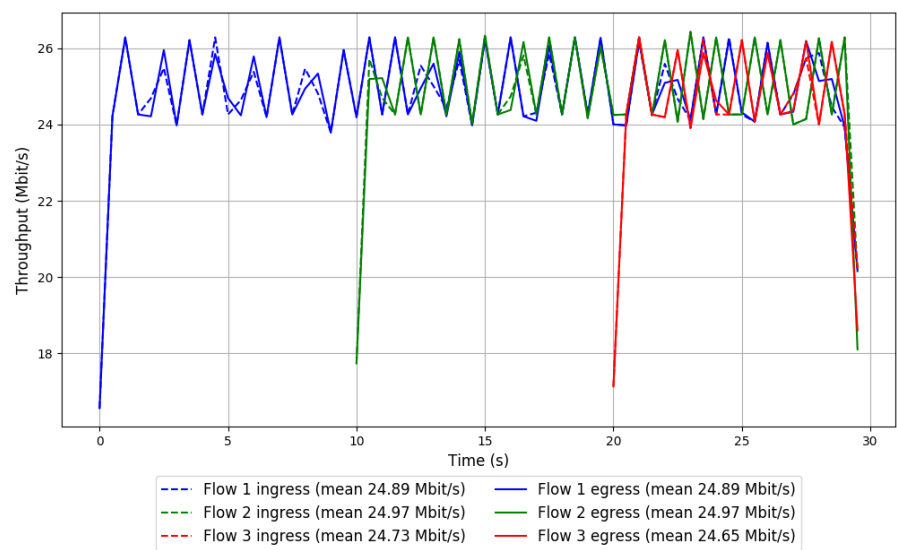


Run 3: Statistics of Sprout

Start at: 2018-04-17 14:16:22
End at: 2018-04-17 14:16:52
Local clock offset: 0.397 ms
Remote clock offset: -5.289 ms

```
# Below is generated by plot.py at 2018-04-17 23:08:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.58 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.33%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-17 14:42:56

End at: 2018-04-17 14:43:26

Local clock offset: 0.243 ms

Remote clock offset: -5.39 ms

Below is generated by plot.py at 2018-04-17 23:08:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.47 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 24.93 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 24.81 Mbit/s

95th percentile per-packet one-way delay: 1.286 ms

Loss rate: 0.21%

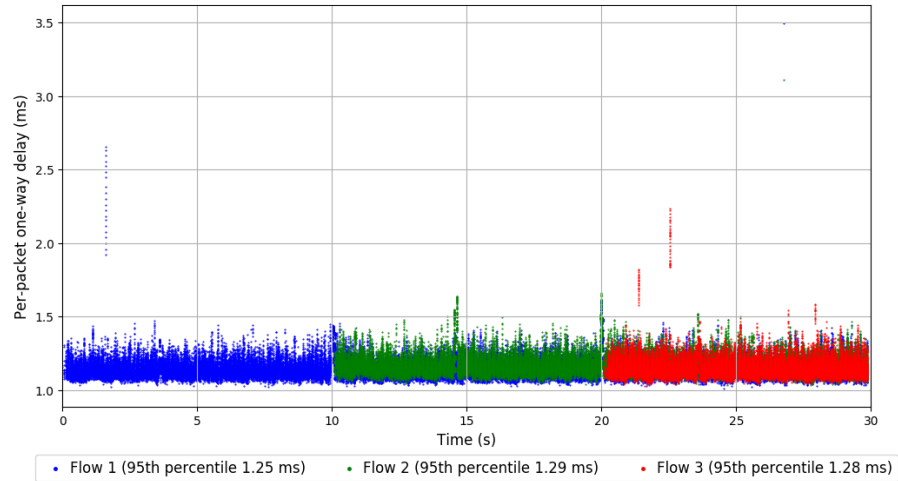
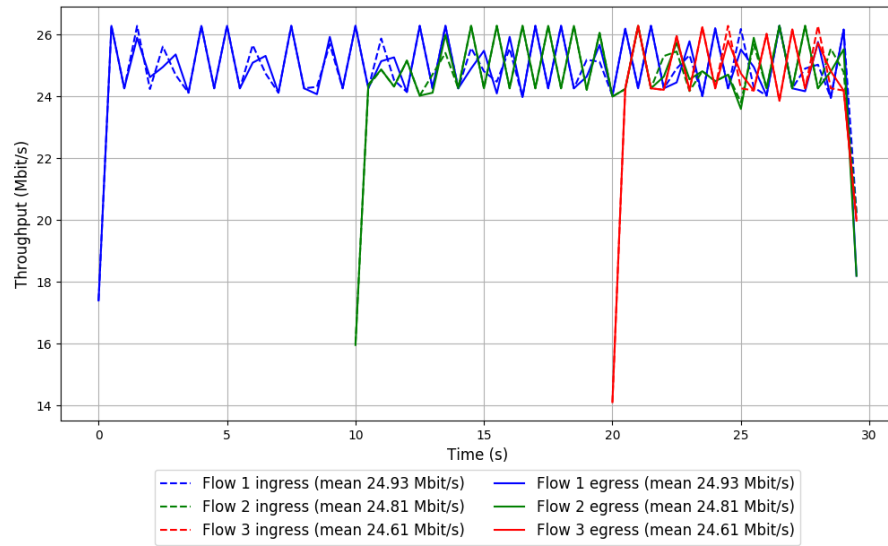
-- Flow 3:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

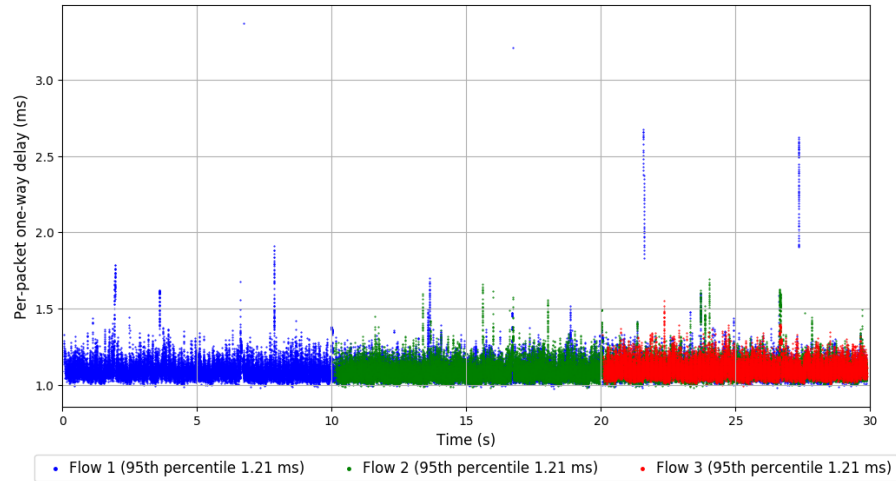
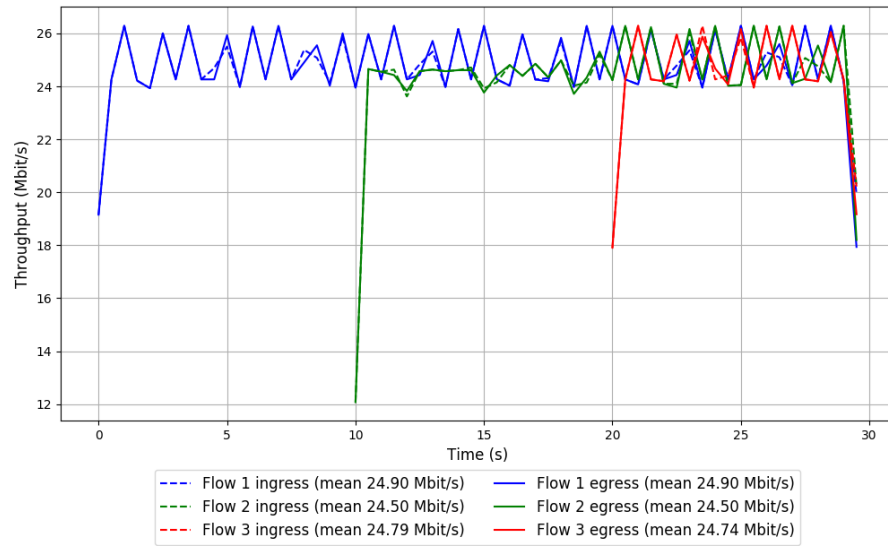


Run 5: Statistics of Sprout

Start at: 2018-04-17 15:09:22
End at: 2018-04-17 15:09:52
Local clock offset: 0.129 ms
Remote clock offset: -5.538 ms

```
# Below is generated by plot.py at 2018-04-17 23:08:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.27 Mbit/s
95th percentile per-packet one-way delay: 1.207 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.22%
```

Run 5: Report of Sprout — Data Link

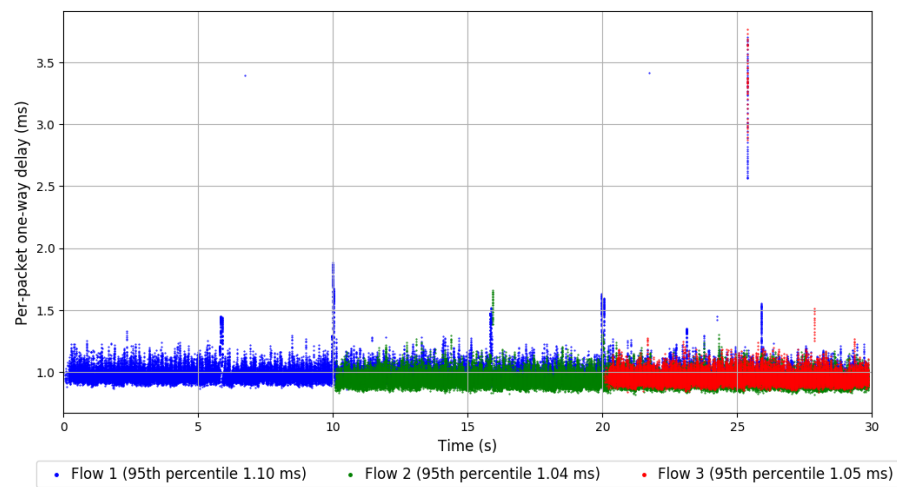
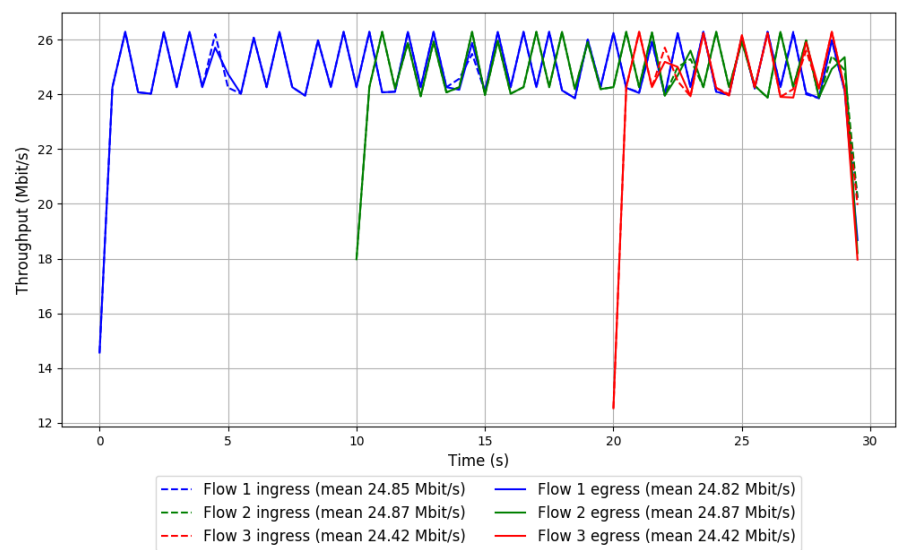


Run 6: Statistics of Sprout

Start at: 2018-04-17 15:36:03
End at: 2018-04-17 15:36:33
Local clock offset: 0.032 ms
Remote clock offset: -6.517 ms

```
# Below is generated by plot.py at 2018-04-17 23:08:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.34 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 24.82 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 1.040 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.42 Mbit/s
95th percentile per-packet one-way delay: 1.055 ms
Loss rate: 0.42%
```

Run 6: Report of Sprout — Data Link

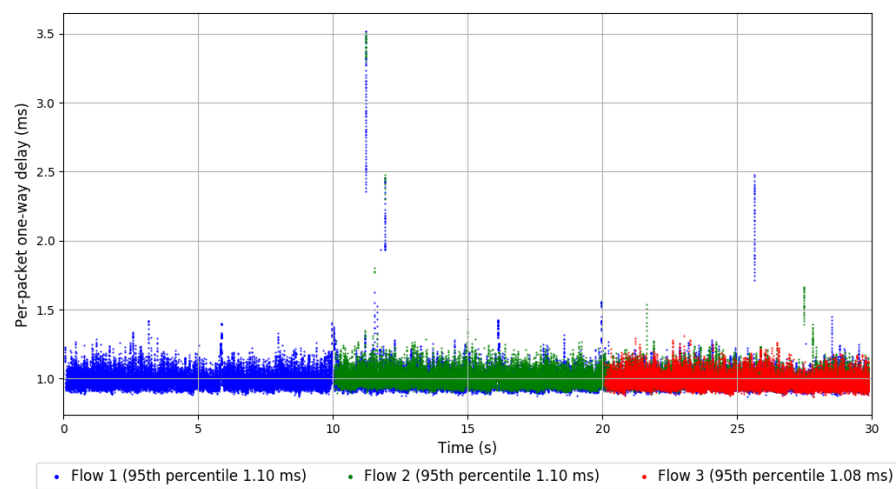
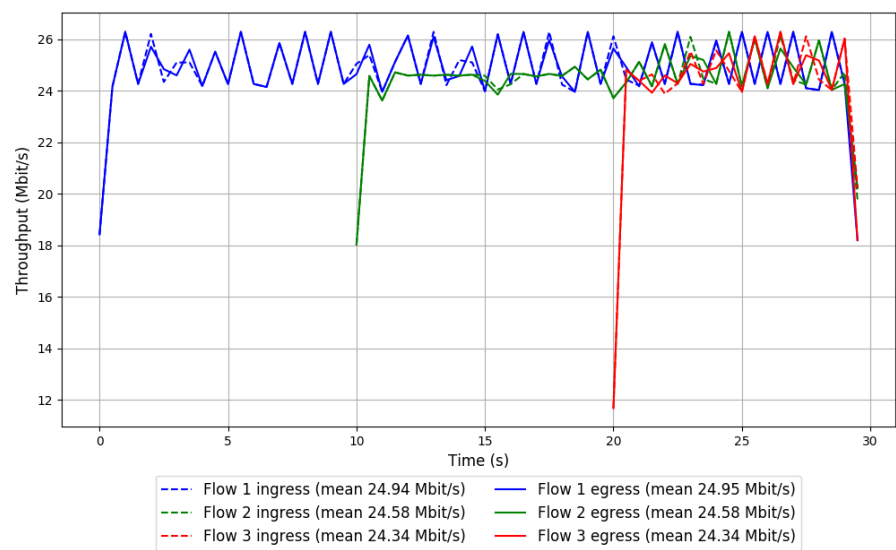


Run 7: Statistics of Sprout

Start at: 2018-04-17 16:02:42
End at: 2018-04-17 16:03:12
Local clock offset: 0.173 ms
Remote clock offset: -6.803 ms

Below is generated by plot.py at 2018-04-17 23:08:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.26 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 1.105 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.42%

Run 7: Report of Sprout — Data Link

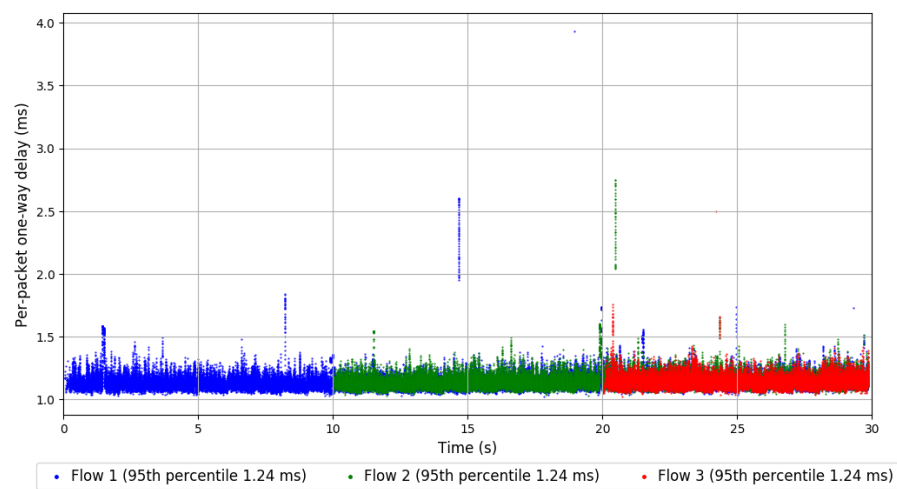
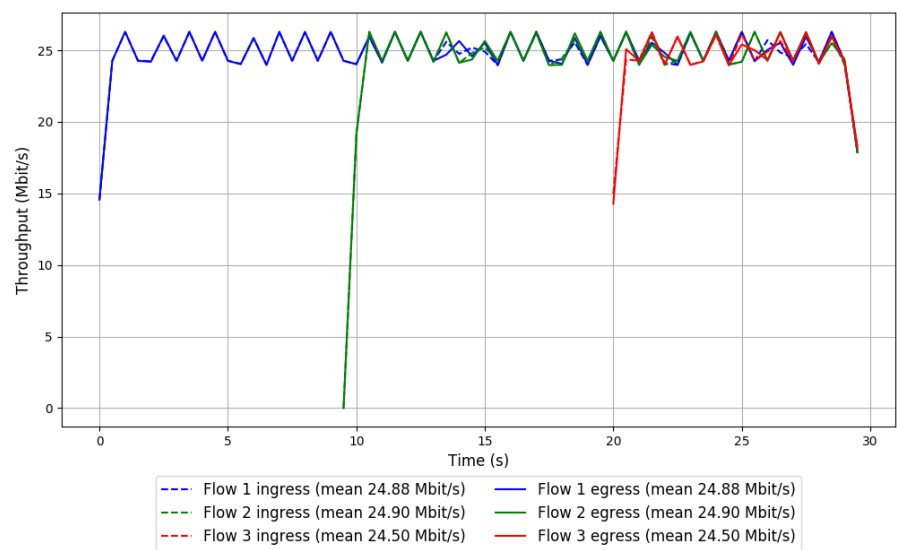


Run 8: Statistics of Sprout

Start at: 2018-04-17 16:29:26
End at: 2018-04-17 16:29:56
Local clock offset: -0.002 ms
Remote clock offset: -6.687 ms

```
# Below is generated by plot.py at 2018-04-17 23:08:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.88 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 24.50 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

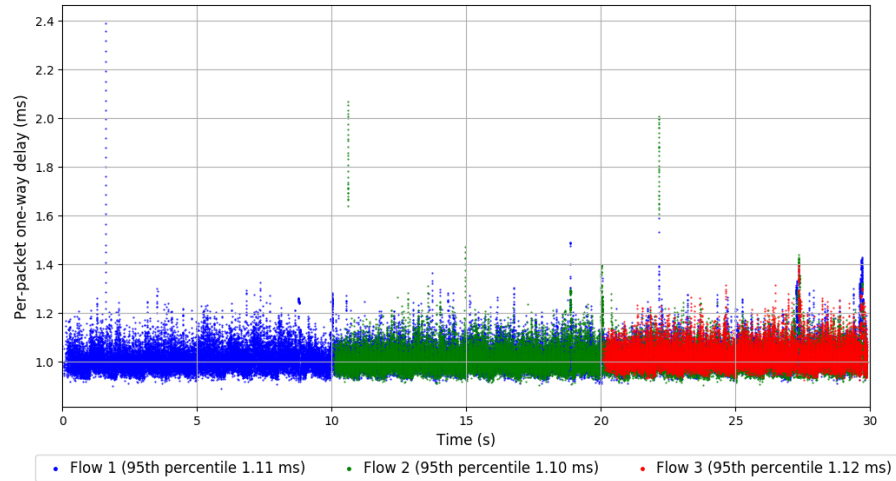
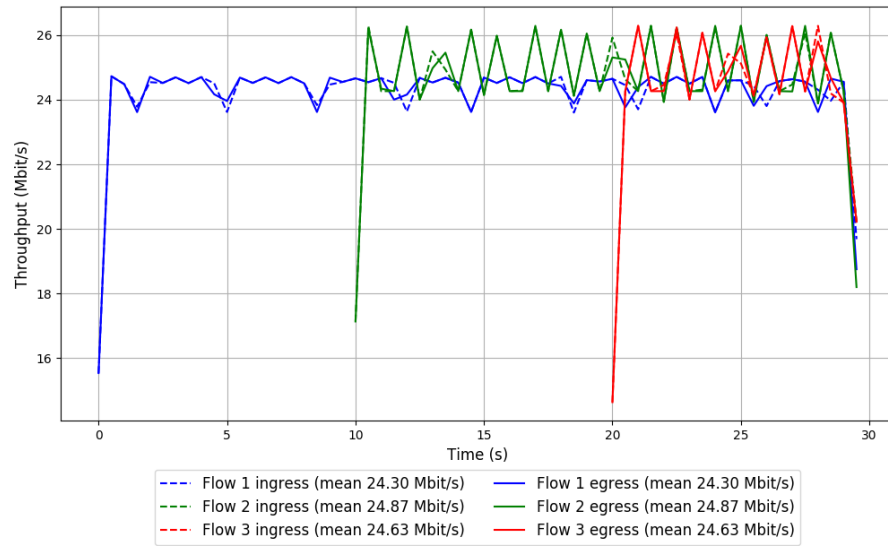


Run 9: Statistics of Sprout

Start at: 2018-04-17 16:55:58
End at: 2018-04-17 16:56:28
Local clock offset: -0.165 ms
Remote clock offset: -6.461 ms

```
# Below is generated by plot.py at 2018-04-17 23:08:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.91 Mbit/s
95th percentile per-packet one-way delay: 1.110 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 1.112 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.87 Mbit/s
95th percentile per-packet one-way delay: 1.102 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

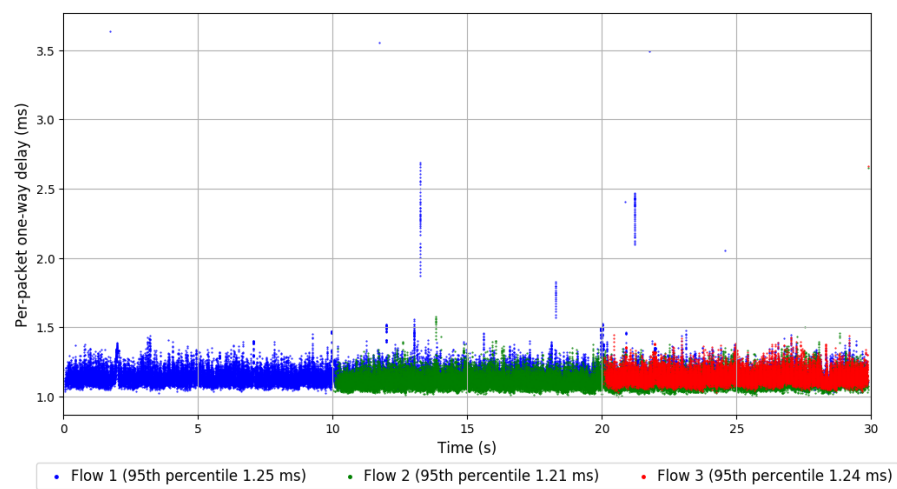
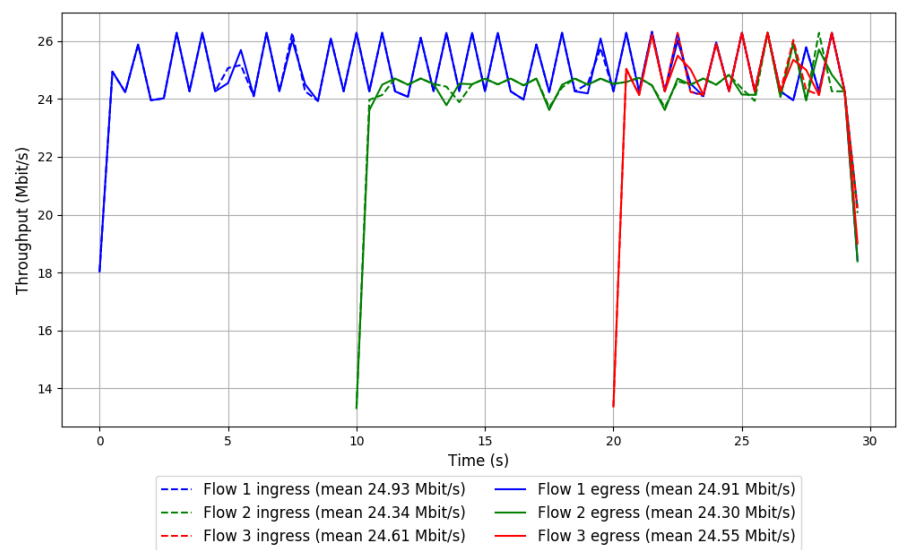


Run 10: Statistics of Sprout

Start at: 2018-04-17 17:22:35
End at: 2018-04-17 17:23:05
Local clock offset: -0.041 ms
Remote clock offset: -6.292 ms

```
# Below is generated by plot.py at 2018-04-17 23:08:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 49.13 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 24.91 Mbit/s
95th percentile per-packet one-way delay: 1.247 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.25%
```

Run 10: Report of Sprout — Data Link

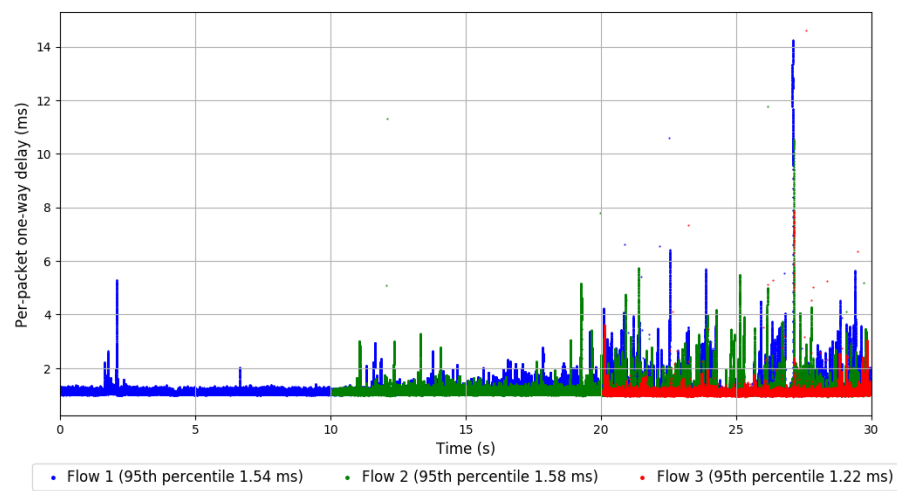
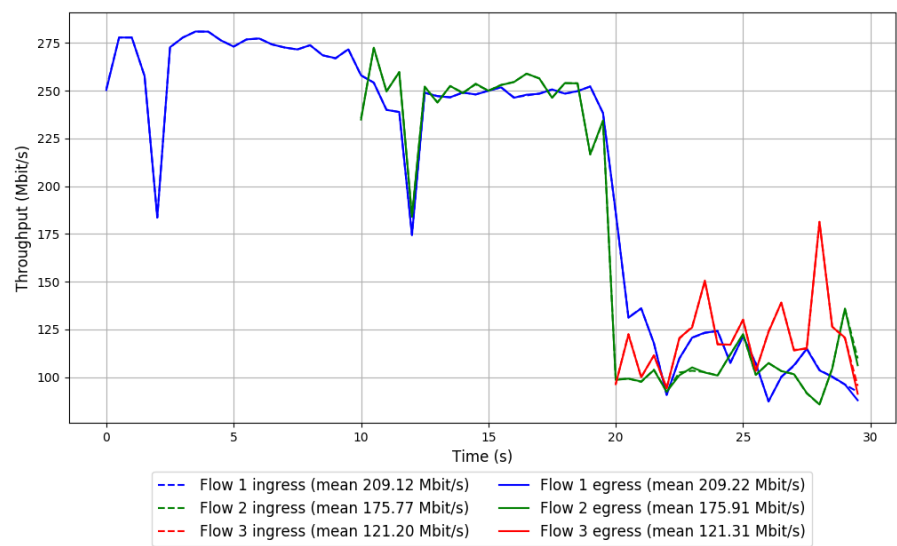


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 13:08:59
End at: 2018-04-17 13:09:29
Local clock offset: 0.381 ms
Remote clock offset: -5.483 ms

Below is generated by plot.py at 2018-04-17 23:18:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 366.30 Mbit/s
95th percentile per-packet one-way delay: 1.518 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 209.22 Mbit/s
95th percentile per-packet one-way delay: 1.539 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 175.91 Mbit/s
95th percentile per-packet one-way delay: 1.580 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 121.31 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.17%

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

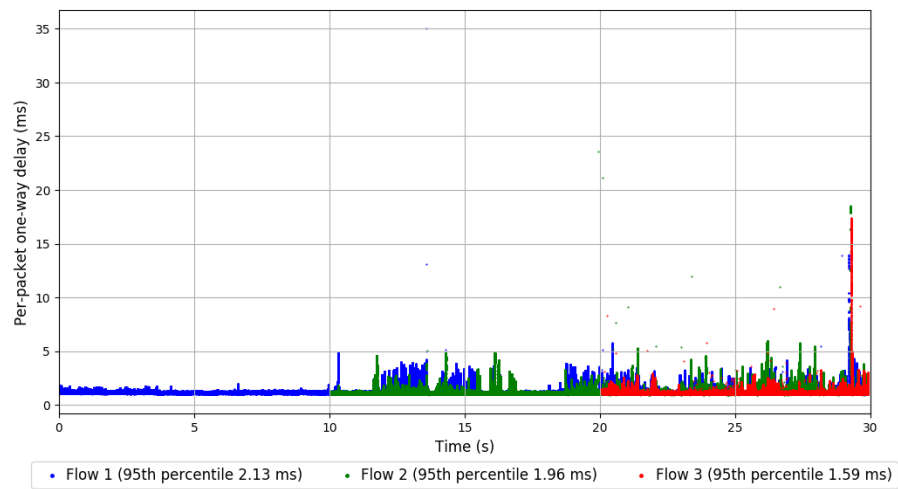
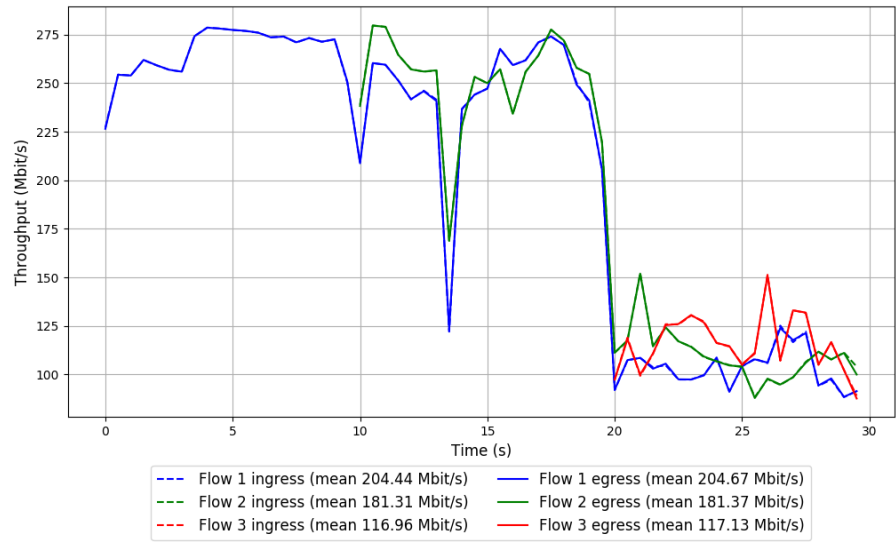


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 13:35:40
End at: 2018-04-17 13:36:10
Local clock offset: 0.187 ms
Remote clock offset: -5.102 ms

Below is generated by plot.py at 2018-04-17 23:18:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.99 Mbit/s
95th percentile per-packet one-way delay: 2.006 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 204.67 Mbit/s
95th percentile per-packet one-way delay: 2.134 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 181.37 Mbit/s
95th percentile per-packet one-way delay: 1.962 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 117.13 Mbit/s
95th percentile per-packet one-way delay: 1.586 ms
Loss rate: 0.06%

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

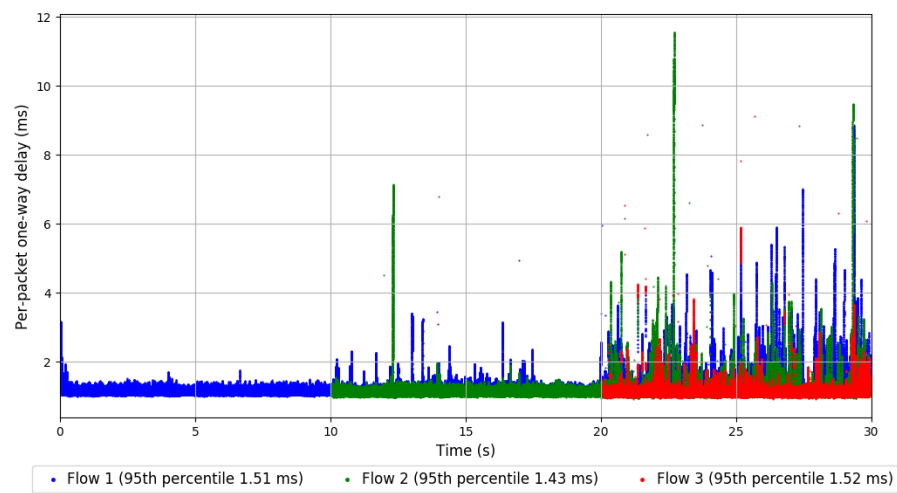
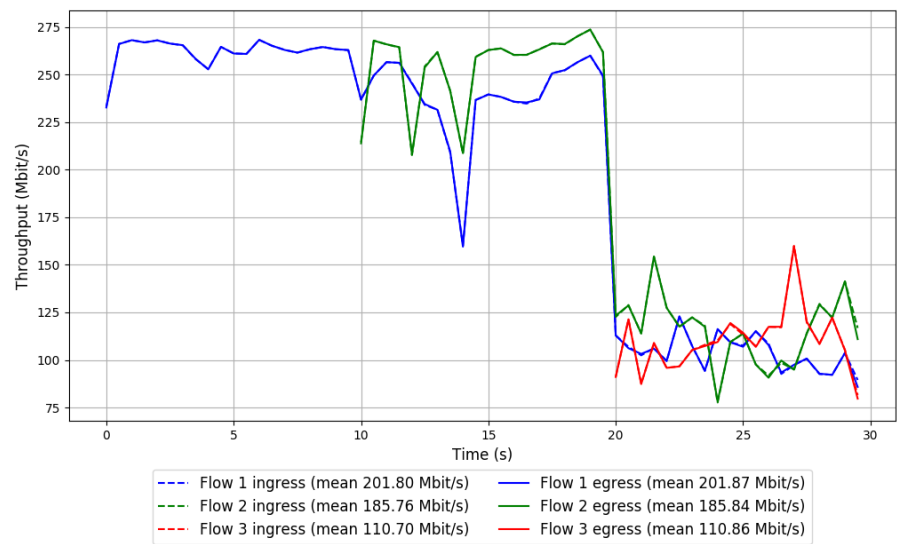


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 14:02:16
End at: 2018-04-17 14:02:46
Local clock offset: 0.255 ms
Remote clock offset: -4.925 ms

Below is generated by plot.py at 2018-04-17 23:18:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 362.10 Mbit/s
95th percentile per-packet one-way delay: 1.485 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 201.87 Mbit/s
95th percentile per-packet one-way delay: 1.506 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 185.84 Mbit/s
95th percentile per-packet one-way delay: 1.428 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 110.86 Mbit/s
95th percentile per-packet one-way delay: 1.525 ms
Loss rate: 0.10%

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

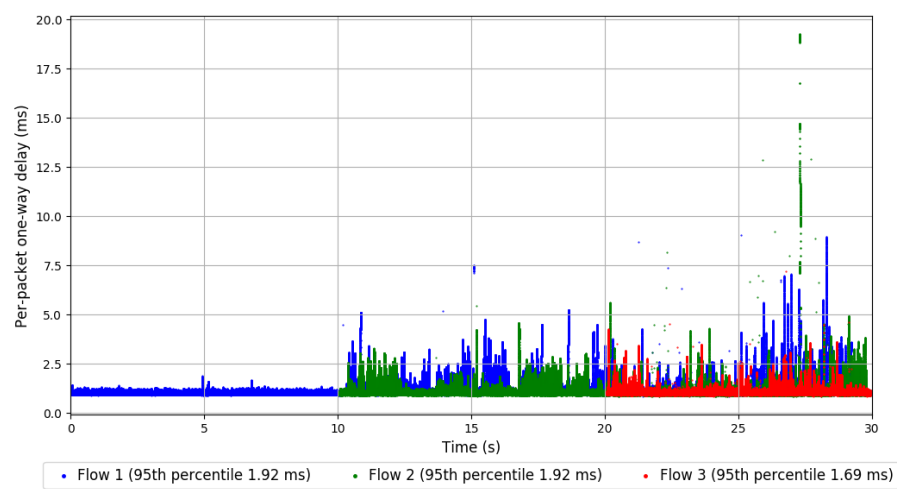
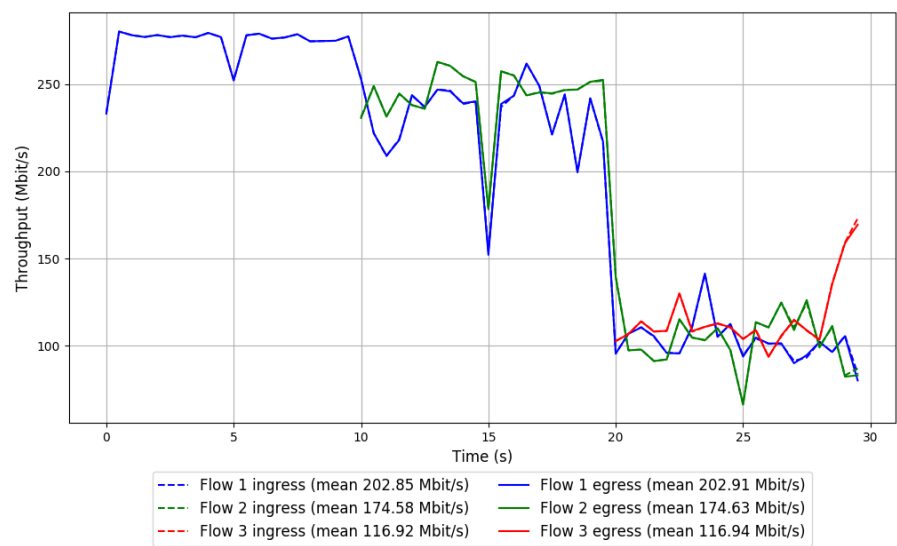


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 14:28:54
End at: 2018-04-17 14:29:24
Local clock offset: 0.364 ms
Remote clock offset: -5.344 ms

Below is generated by plot.py at 2018-04-17 23:18:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 357.71 Mbit/s
95th percentile per-packet one-way delay: 1.894 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 202.91 Mbit/s
95th percentile per-packet one-way delay: 1.918 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 174.63 Mbit/s
95th percentile per-packet one-way delay: 1.920 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 116.94 Mbit/s
95th percentile per-packet one-way delay: 1.691 ms
Loss rate: 0.19%

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

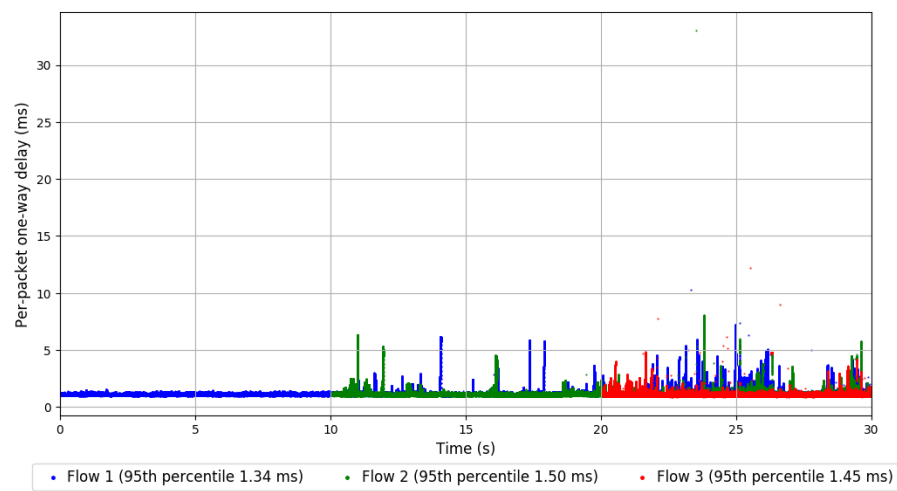
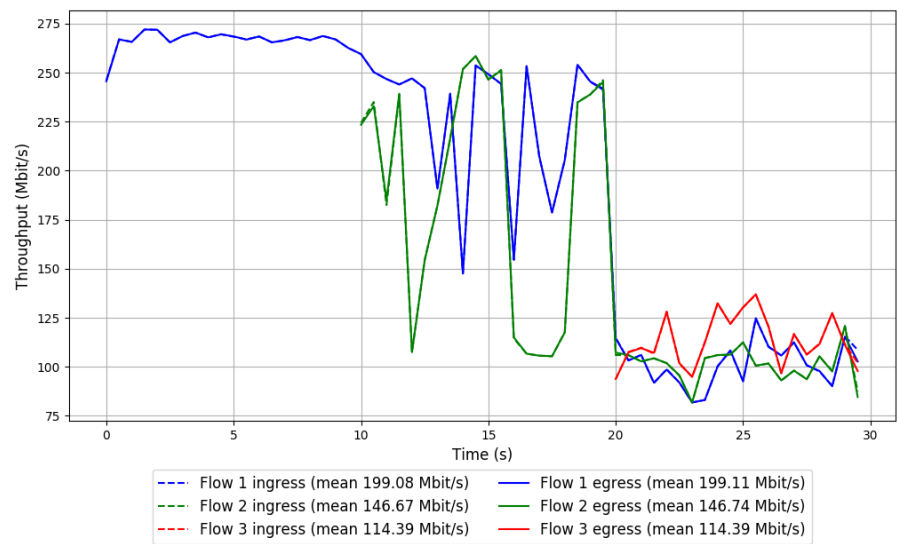


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 14:55:26
End at: 2018-04-17 14:55:56
Local clock offset: 0.12 ms
Remote clock offset: -5.555 ms

Below is generated by plot.py at 2018-04-17 23:18:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.52 Mbit/s
95th percentile per-packet one-way delay: 1.407 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 199.11 Mbit/s
95th percentile per-packet one-way delay: 1.341 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 146.74 Mbit/s
95th percentile per-packet one-way delay: 1.500 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 114.39 Mbit/s
95th percentile per-packet one-way delay: 1.446 ms
Loss rate: 0.21%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 15:21:49

End at: 2018-04-17 15:22:19

Local clock offset: 0.108 ms

Remote clock offset: -6.22 ms

Below is generated by plot.py at 2018-04-17 23:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 367.15 Mbit/s

95th percentile per-packet one-way delay: 1.355 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 207.04 Mbit/s

95th percentile per-packet one-way delay: 1.310 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 185.22 Mbit/s

95th percentile per-packet one-way delay: 1.379 ms

Loss rate: 0.07%

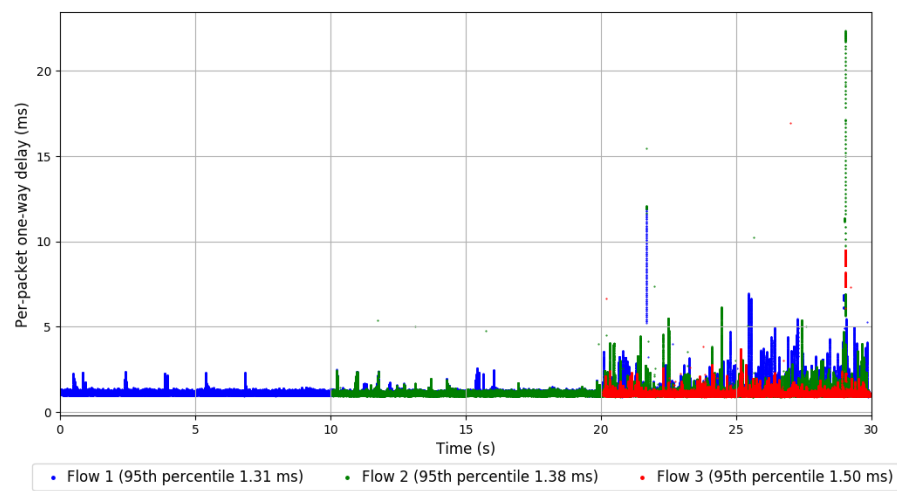
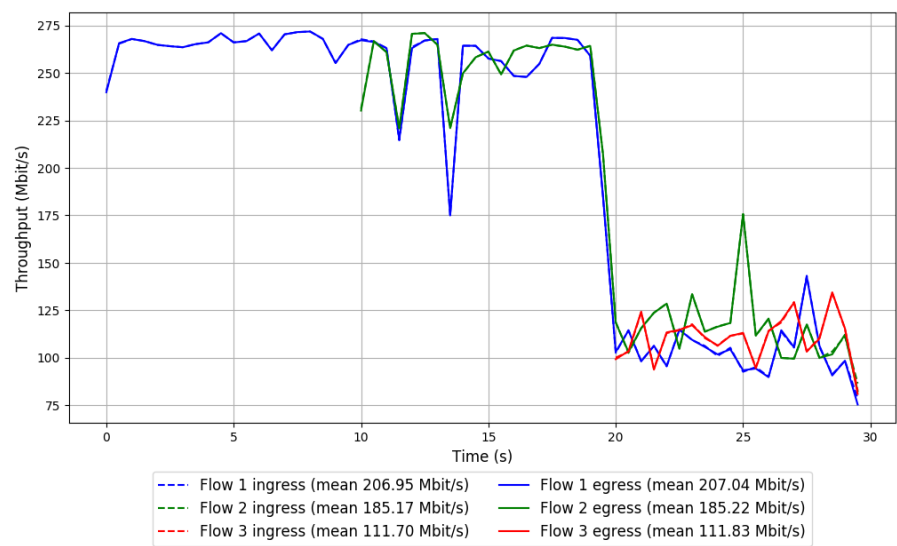
-- Flow 3:

Average throughput: 111.83 Mbit/s

95th percentile per-packet one-way delay: 1.499 ms

Loss rate: 0.10%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 15:48:32

End at: 2018-04-17 15:49:02

Local clock offset: 0.222 ms

Remote clock offset: -6.77 ms

Below is generated by plot.py at 2018-04-17 23:18:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 352.30 Mbit/s

95th percentile per-packet one-way delay: 1.965 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 207.53 Mbit/s

95th percentile per-packet one-way delay: 1.336 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 165.17 Mbit/s

95th percentile per-packet one-way delay: 2.642 ms

Loss rate: 0.04%

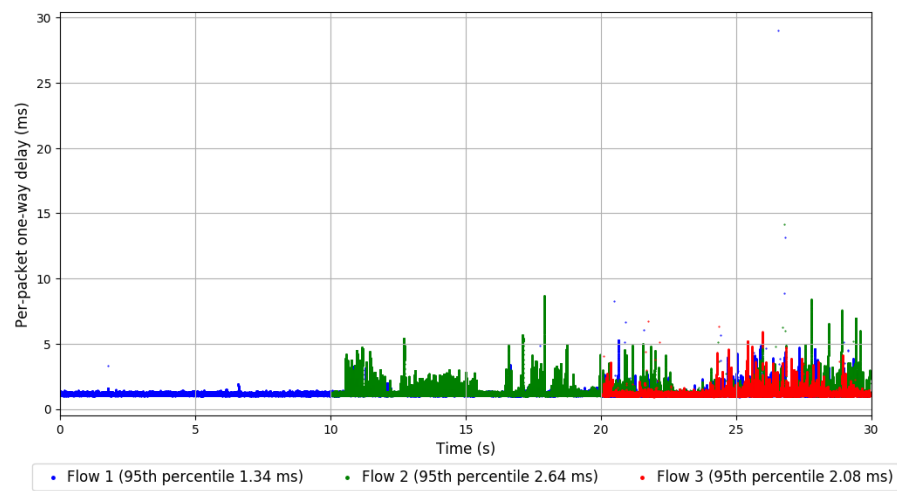
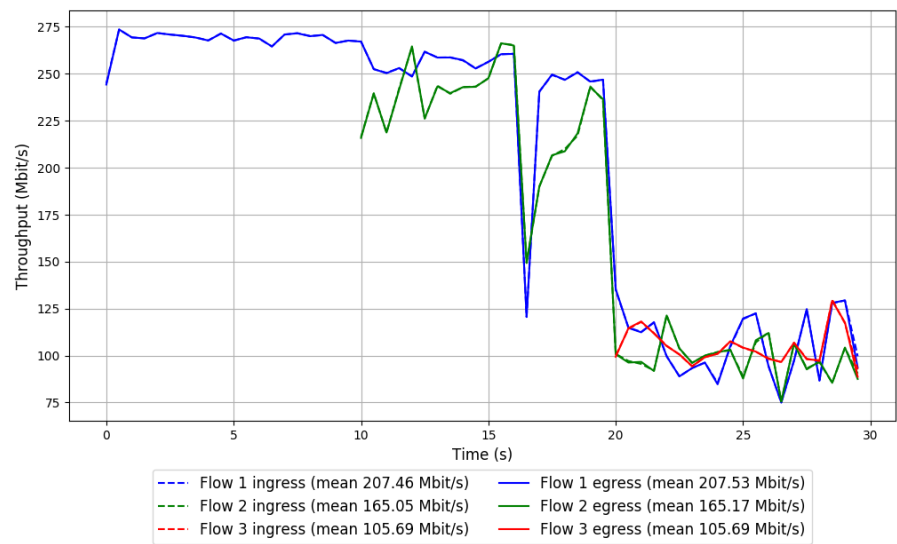
-- Flow 3:

Average throughput: 105.69 Mbit/s

95th percentile per-packet one-way delay: 2.079 ms

Loss rate: 0.20%

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

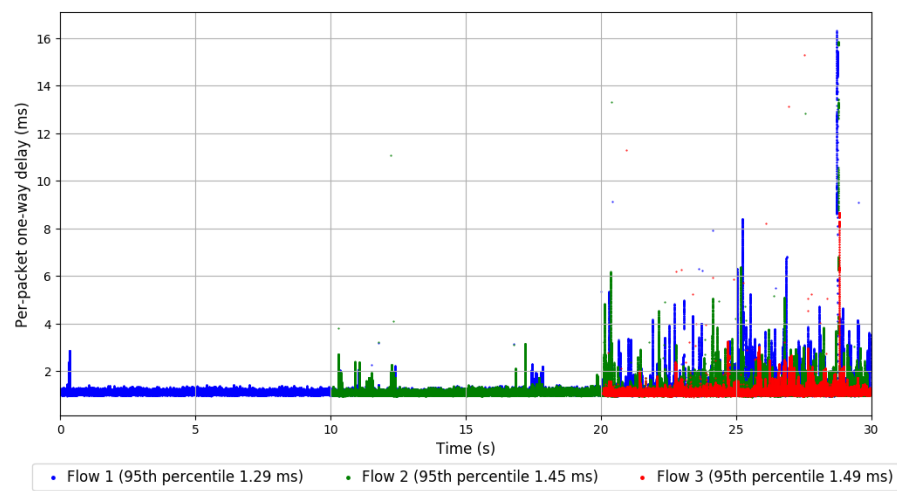
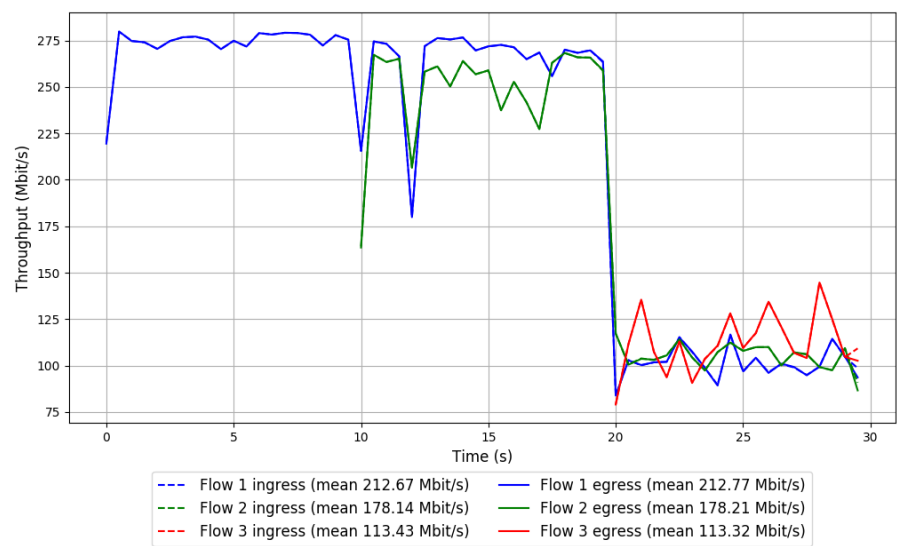


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 16:15:18
End at: 2018-04-17 16:15:48
Local clock offset: 0.201 ms
Remote clock offset: -6.903 ms

Below is generated by plot.py at 2018-04-17 23:19:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 368.69 Mbit/s
95th percentile per-packet one-way delay: 1.373 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 212.77 Mbit/s
95th percentile per-packet one-way delay: 1.292 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 178.21 Mbit/s
95th percentile per-packet one-way delay: 1.451 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 113.32 Mbit/s
95th percentile per-packet one-way delay: 1.490 ms
Loss rate: 0.29%

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

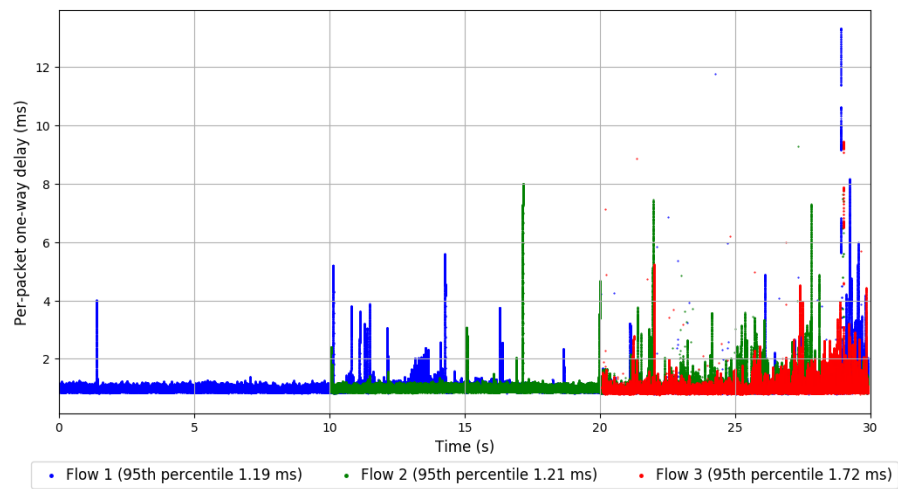
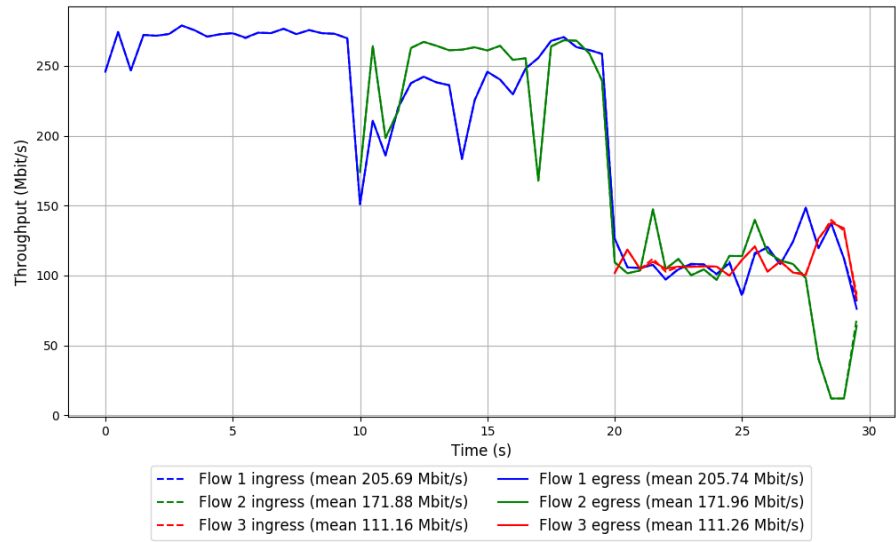


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 16:41:56
End at: 2018-04-17 16:42:26
Local clock offset: -0.196 ms
Remote clock offset: -6.484 ms

Below is generated by plot.py at 2018-04-17 23:27:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.85 Mbit/s
95th percentile per-packet one-way delay: 1.252 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 205.74 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 171.96 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 111.26 Mbit/s
95th percentile per-packet one-way delay: 1.720 ms
Loss rate: 0.16%

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

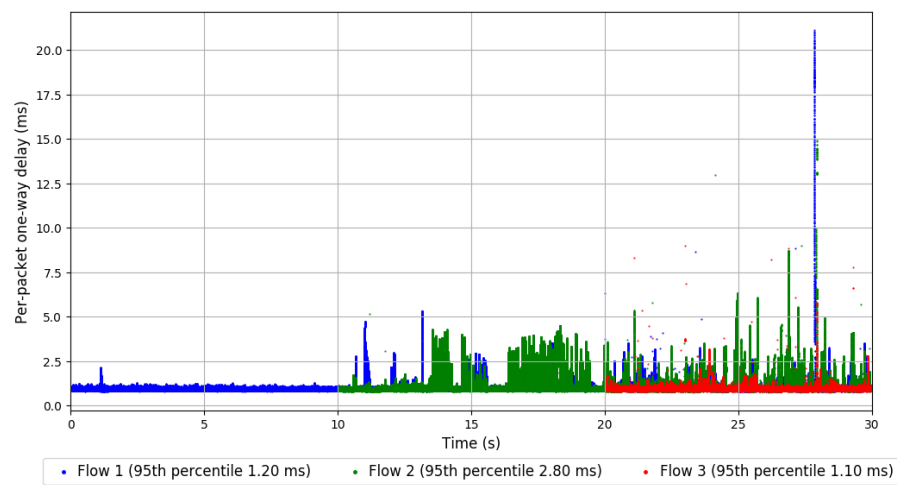
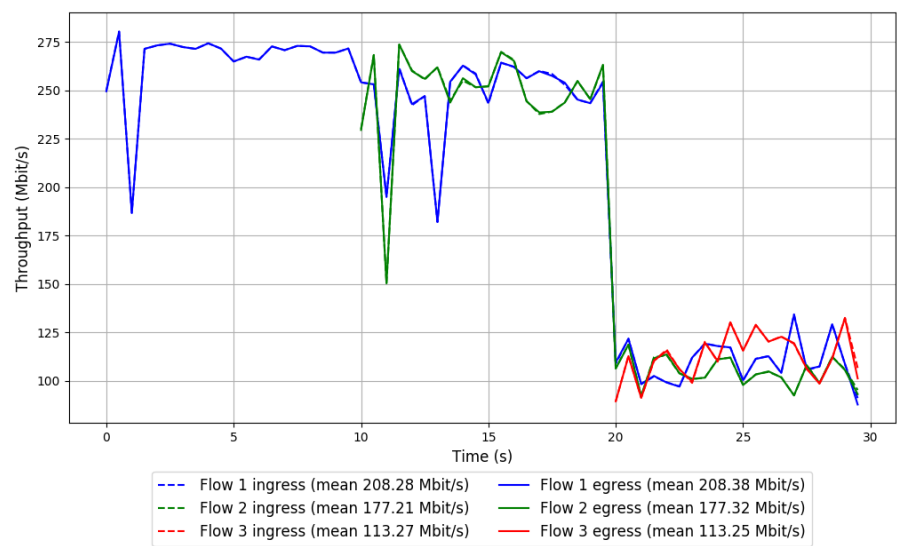


Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 17:08:26
End at: 2018-04-17 17:08:56
Local clock offset: -0.151 ms
Remote clock offset: -6.304 ms

Below is generated by plot.py at 2018-04-17 23:28:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.77 Mbit/s
95th percentile per-packet one-way delay: 1.805 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 208.38 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 177.32 Mbit/s
95th percentile per-packet one-way delay: 2.803 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 113.25 Mbit/s
95th percentile per-packet one-way delay: 1.101 ms
Loss rate: 0.25%

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

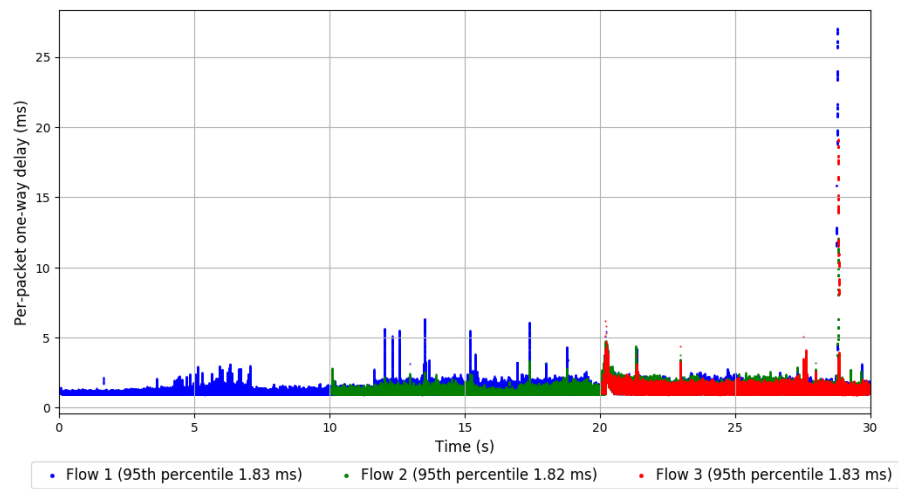
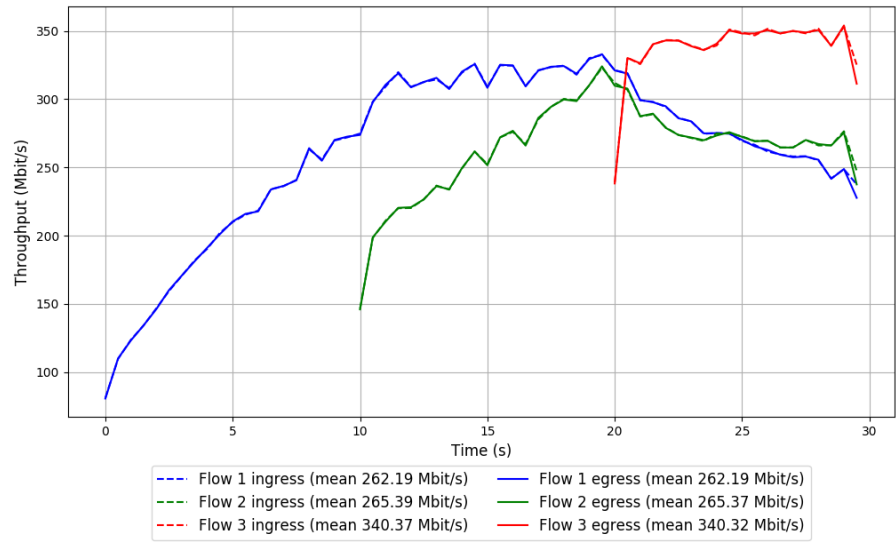


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 13:07:19
End at: 2018-04-17 13:07:50
Local clock offset: 0.412 ms
Remote clock offset: -5.437 ms

Below is generated by plot.py at 2018-04-17 23:28:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 551.38 Mbit/s
95th percentile per-packet one-way delay: 1.823 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 262.19 Mbit/s
95th percentile per-packet one-way delay: 1.826 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 265.37 Mbit/s
95th percentile per-packet one-way delay: 1.817 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 340.32 Mbit/s
95th percentile per-packet one-way delay: 1.828 ms
Loss rate: 0.22%

Run 1: Report of TCP Vegas — Data Link

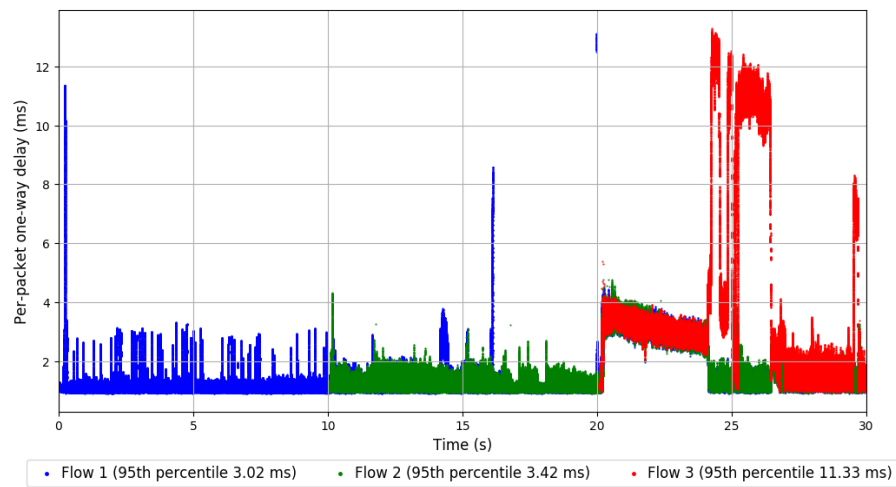
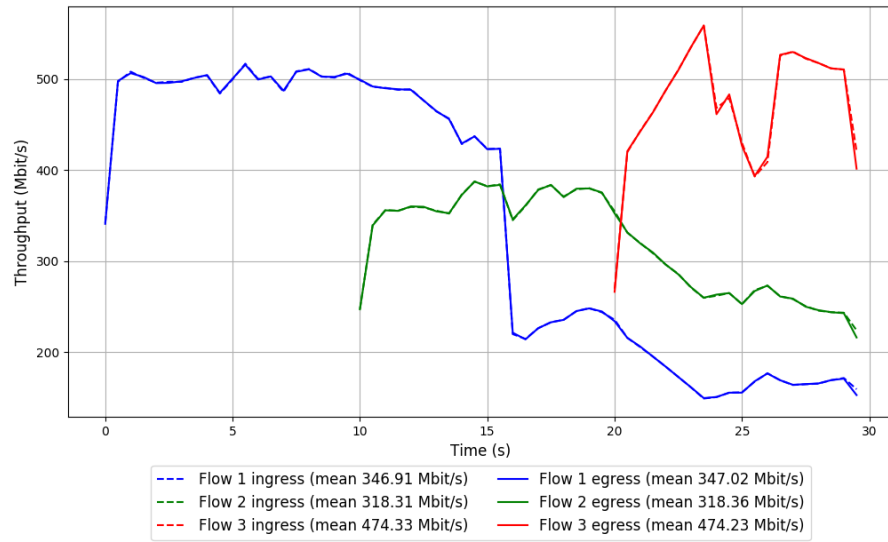


Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 13:33:55
End at: 2018-04-17 13:34:25
Local clock offset: 0.212 ms
Remote clock offset: -5.012 ms

Below is generated by plot.py at 2018-04-17 23:29:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 715.61 Mbit/s
95th percentile per-packet one-way delay: 3.757 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 347.02 Mbit/s
95th percentile per-packet one-way delay: 3.024 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 318.36 Mbit/s
95th percentile per-packet one-way delay: 3.422 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 474.23 Mbit/s
95th percentile per-packet one-way delay: 11.334 ms
Loss rate: 0.22%

Run 2: Report of TCP Vegas — Data Link

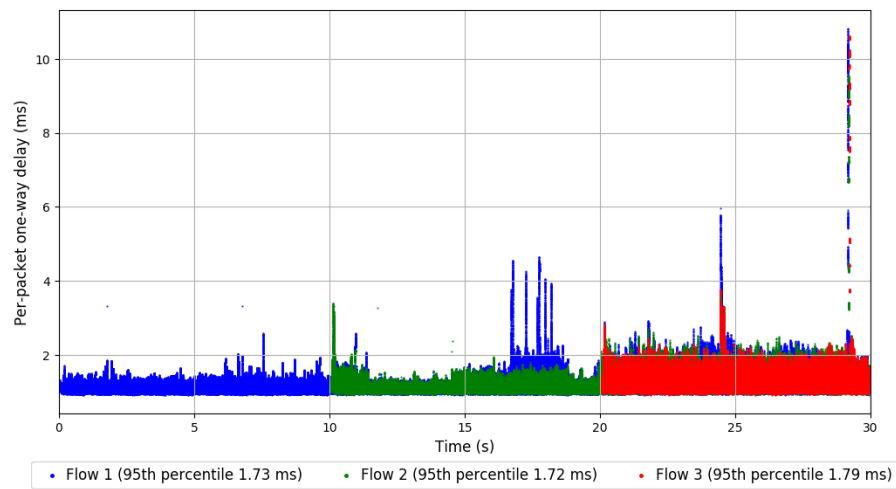
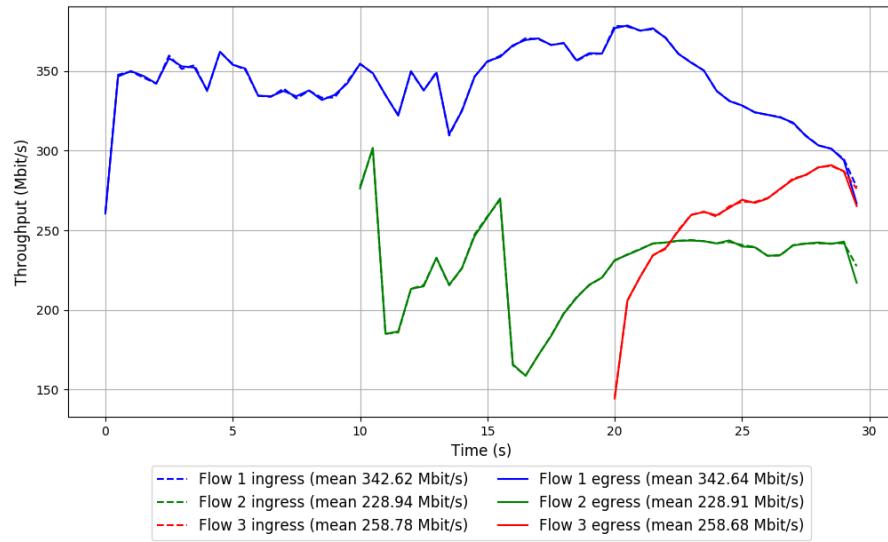


Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 14:00:36
End at: 2018-04-17 14:01:06
Local clock offset: 0.232 ms
Remote clock offset: -4.887 ms

Below is generated by plot.py at 2018-04-17 23:29:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 580.52 Mbit/s
95th percentile per-packet one-way delay: 1.737 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 342.64 Mbit/s
95th percentile per-packet one-way delay: 1.728 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 228.91 Mbit/s
95th percentile per-packet one-way delay: 1.722 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 258.68 Mbit/s
95th percentile per-packet one-way delay: 1.787 ms
Loss rate: 0.22%

Run 3: Report of TCP Vegas — Data Link

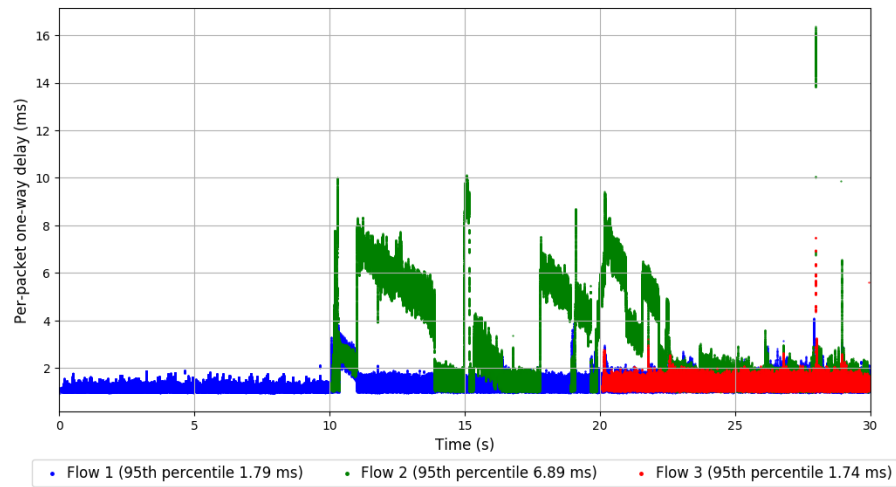
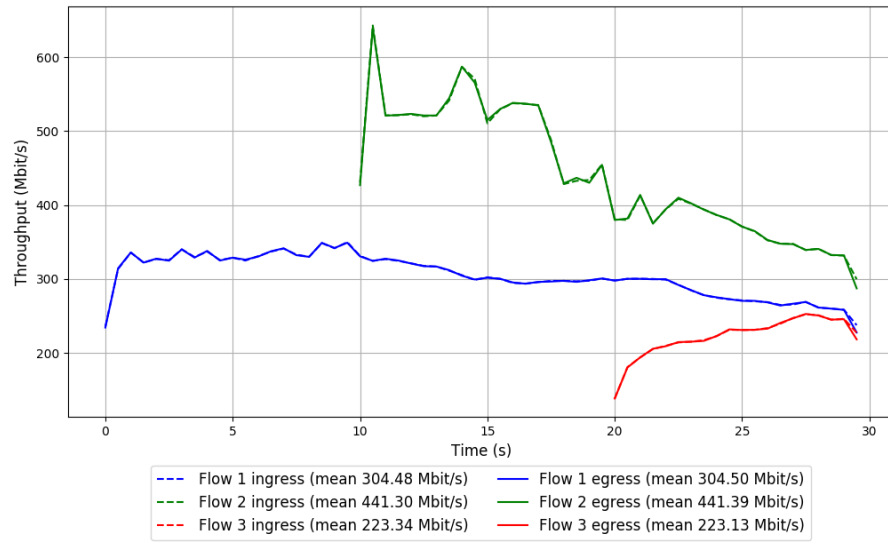


Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 14:27:11
End at: 2018-04-17 14:27:41
Local clock offset: 0.449 ms
Remote clock offset: -5.322 ms

Below is generated by plot.py at 2018-04-17 23:29:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 672.13 Mbit/s
95th percentile per-packet one-way delay: 6.176 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 304.50 Mbit/s
95th percentile per-packet one-way delay: 1.791 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 441.39 Mbit/s
95th percentile per-packet one-way delay: 6.891 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 223.13 Mbit/s
95th percentile per-packet one-way delay: 1.740 ms
Loss rate: 0.22%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 14:53:44

End at: 2018-04-17 14:54:14

Local clock offset: 0.199 ms

Remote clock offset: -5.52 ms

Below is generated by plot.py at 2018-04-17 23:29:02

Datalink statistics

-- Total of 3 flows:

Average throughput: 609.07 Mbit/s

95th percentile per-packet one-way delay: 7.049 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 168.05 Mbit/s

95th percentile per-packet one-way delay: 3.239 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 439.20 Mbit/s

95th percentile per-packet one-way delay: 7.590 ms

Loss rate: 0.08%

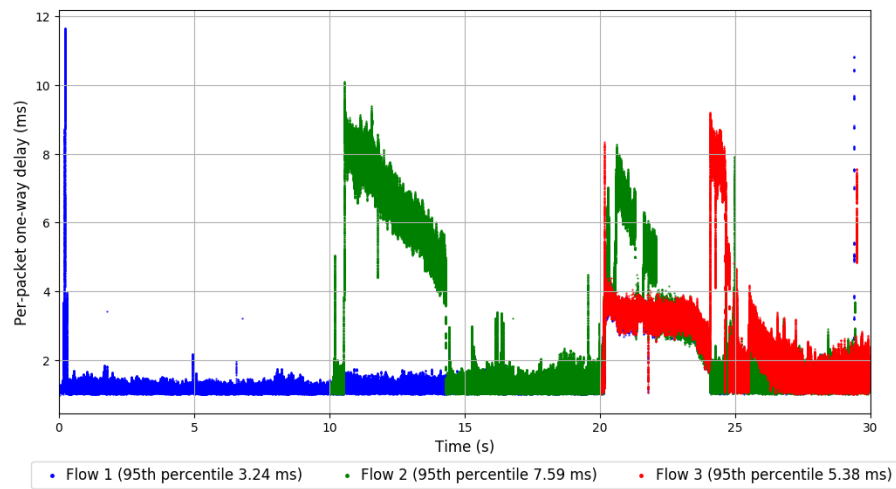
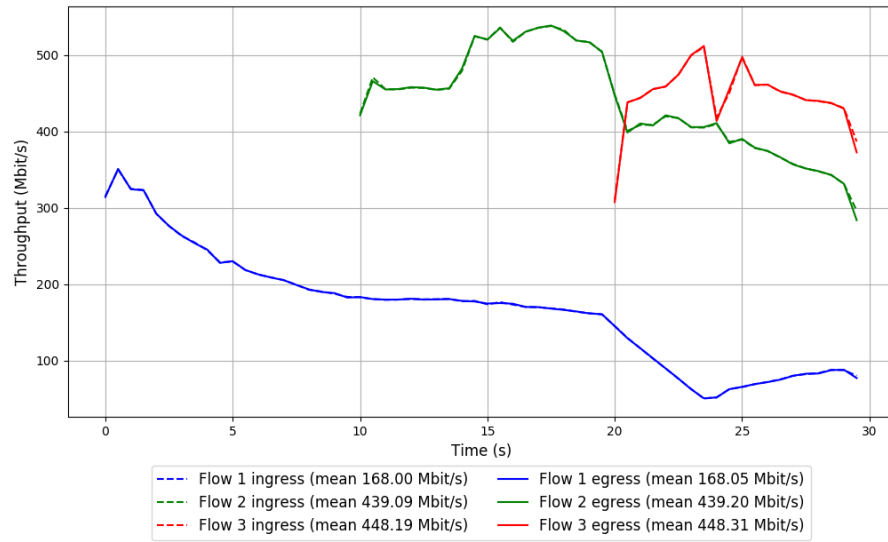
-- Flow 3:

Average throughput: 448.31 Mbit/s

95th percentile per-packet one-way delay: 5.376 ms

Loss rate: 0.18%

Run 5: Report of TCP Vegas — Data Link

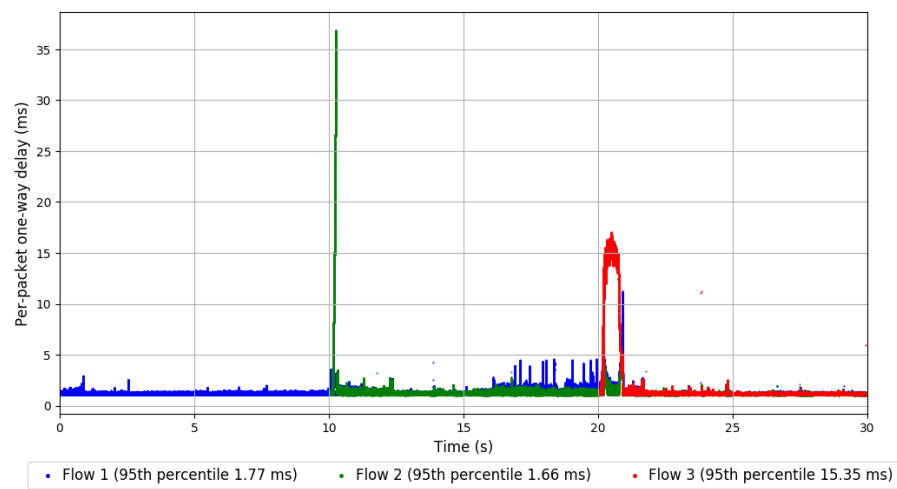
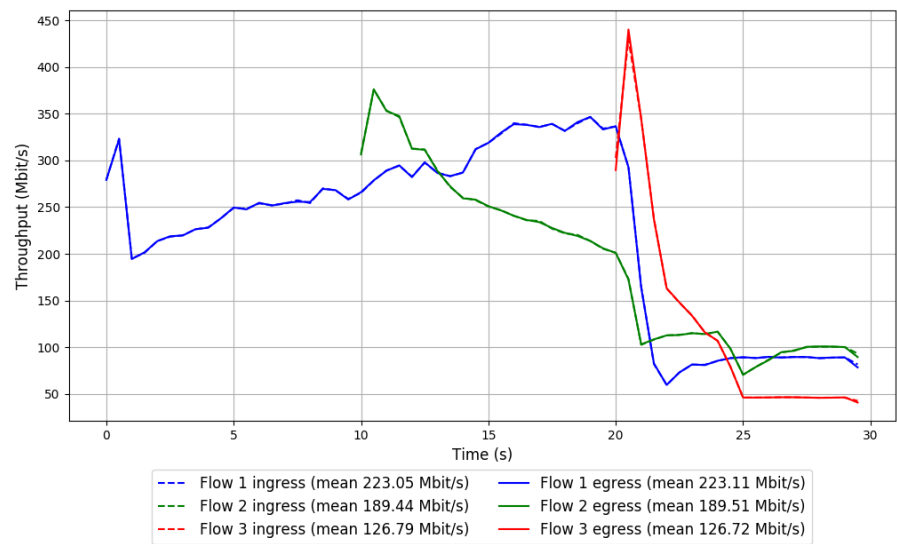


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 15:20:15
End at: 2018-04-17 15:20:45
Local clock offset: 0.155 ms
Remote clock offset: -6.153 ms

```
# Below is generated by plot.py at 2018-04-17 23:29:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.14 Mbit/s
95th percentile per-packet one-way delay: 2.306 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 223.11 Mbit/s
95th percentile per-packet one-way delay: 1.768 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 189.51 Mbit/s
95th percentile per-packet one-way delay: 1.657 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 126.72 Mbit/s
95th percentile per-packet one-way delay: 15.347 ms
Loss rate: 0.18%
```

Run 6: Report of TCP Vegas — Data Link

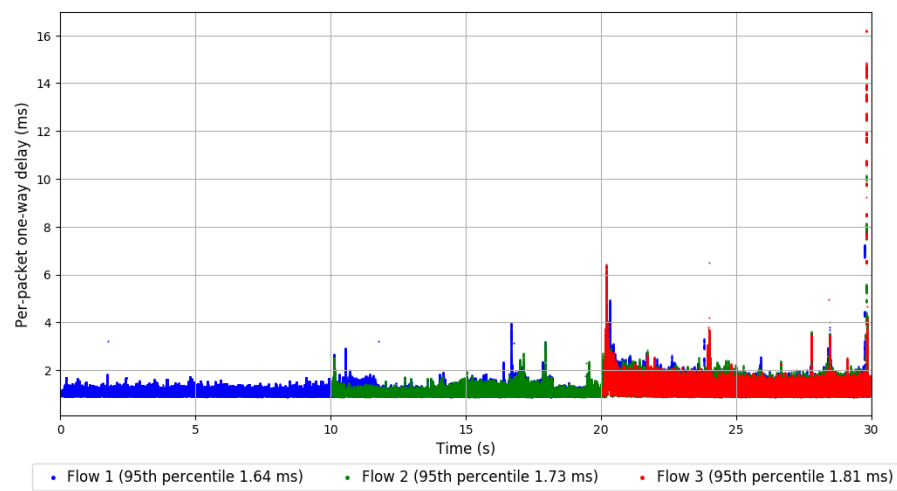
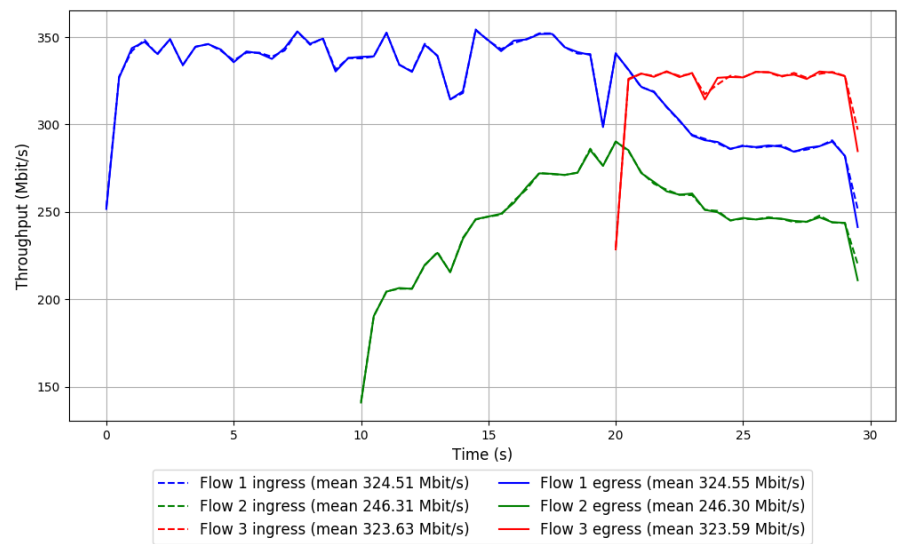


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 15:46:51
End at: 2018-04-17 15:47:21
Local clock offset: 0.211 ms
Remote clock offset: -6.649 ms

Below is generated by plot.py at 2018-04-17 23:33:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 595.55 Mbit/s
95th percentile per-packet one-way delay: 1.707 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 324.55 Mbit/s
95th percentile per-packet one-way delay: 1.640 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 246.30 Mbit/s
95th percentile per-packet one-way delay: 1.727 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 323.59 Mbit/s
95th percentile per-packet one-way delay: 1.815 ms
Loss rate: 0.21%

Run 7: Report of TCP Vegas — Data Link

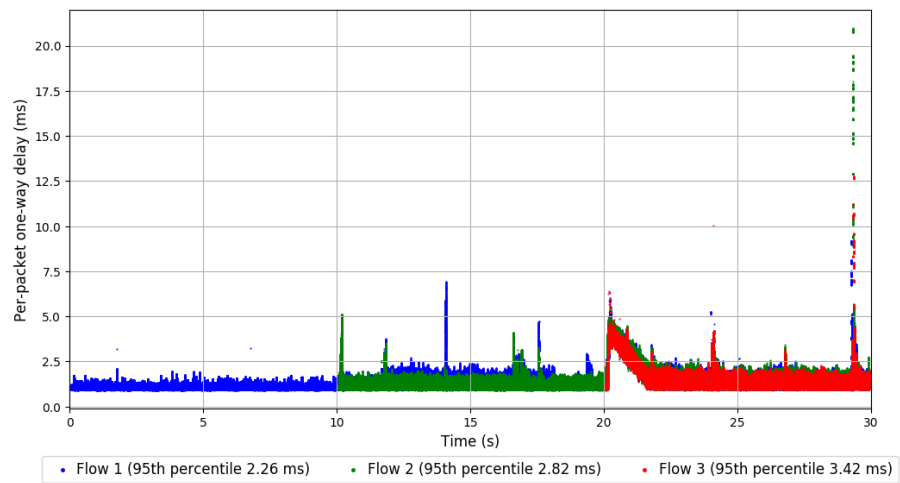
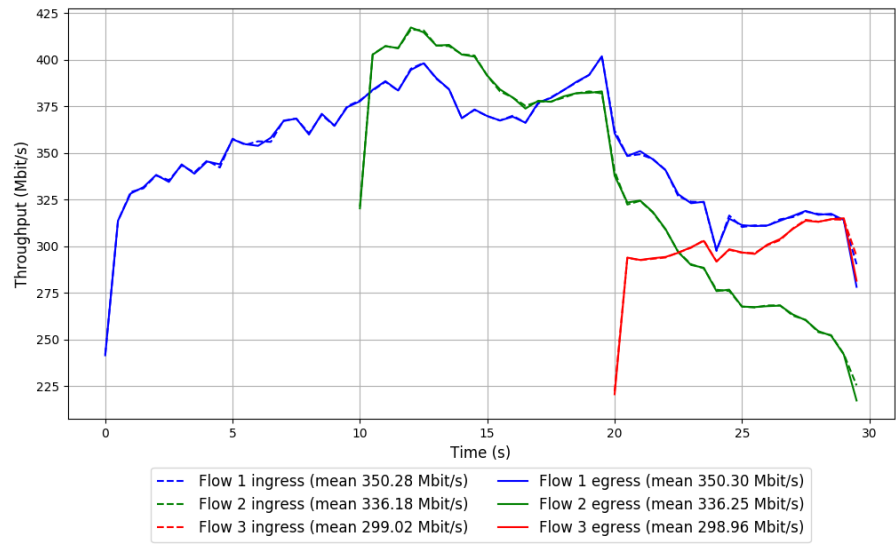


Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 16:13:34
End at: 2018-04-17 16:14:04
Local clock offset: 0.161 ms
Remote clock offset: -6.925 ms

Below is generated by plot.py at 2018-04-17 23:36:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 673.18 Mbit/s
95th percentile per-packet one-way delay: 2.713 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 350.30 Mbit/s
95th percentile per-packet one-way delay: 2.259 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 336.25 Mbit/s
95th percentile per-packet one-way delay: 2.821 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 298.96 Mbit/s
95th percentile per-packet one-way delay: 3.425 ms
Loss rate: 0.22%

Run 8: Report of TCP Vegas — Data Link

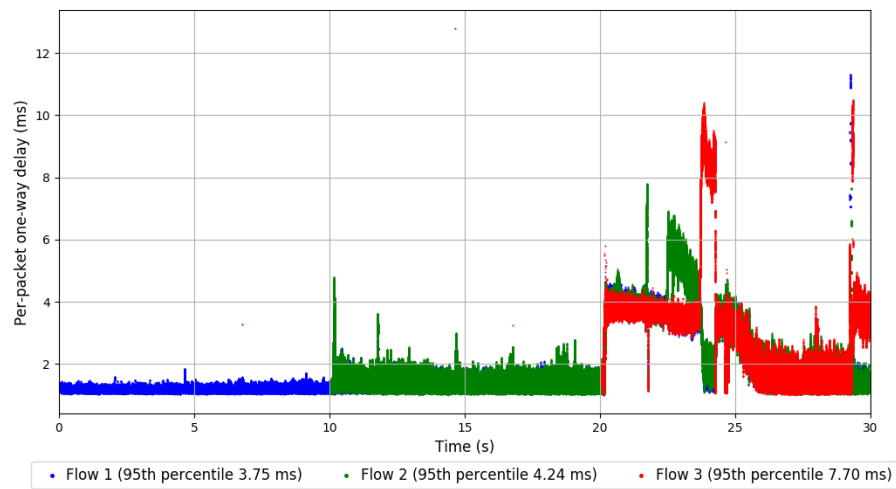
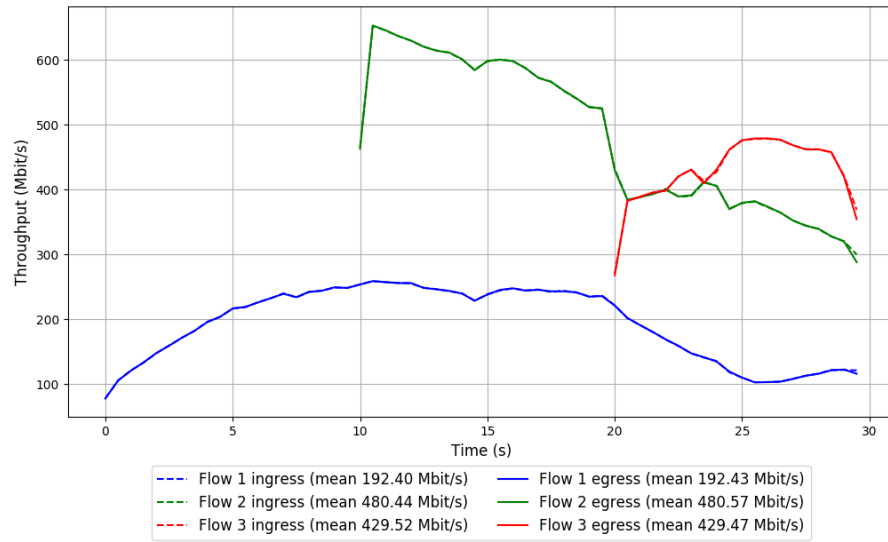


Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 16:40:13
End at: 2018-04-17 16:40:43
Local clock offset: -0.091 ms
Remote clock offset: -6.562 ms

Below is generated by plot.py at 2018-04-17 23:37:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 654.64 Mbit/s
95th percentile per-packet one-way delay: 4.040 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 192.43 Mbit/s
95th percentile per-packet one-way delay: 3.750 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 480.57 Mbit/s
95th percentile per-packet one-way delay: 4.238 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 429.47 Mbit/s
95th percentile per-packet one-way delay: 7.702 ms
Loss rate: 0.20%

Run 9: Report of TCP Vegas — Data Link

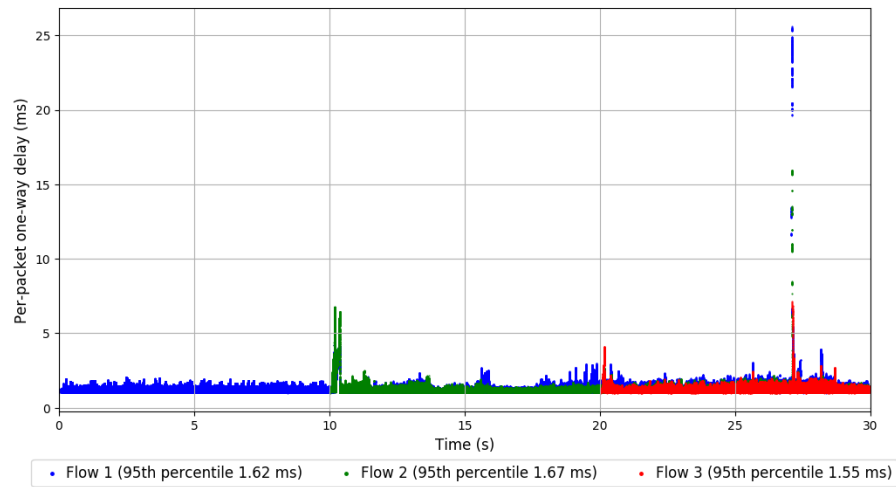
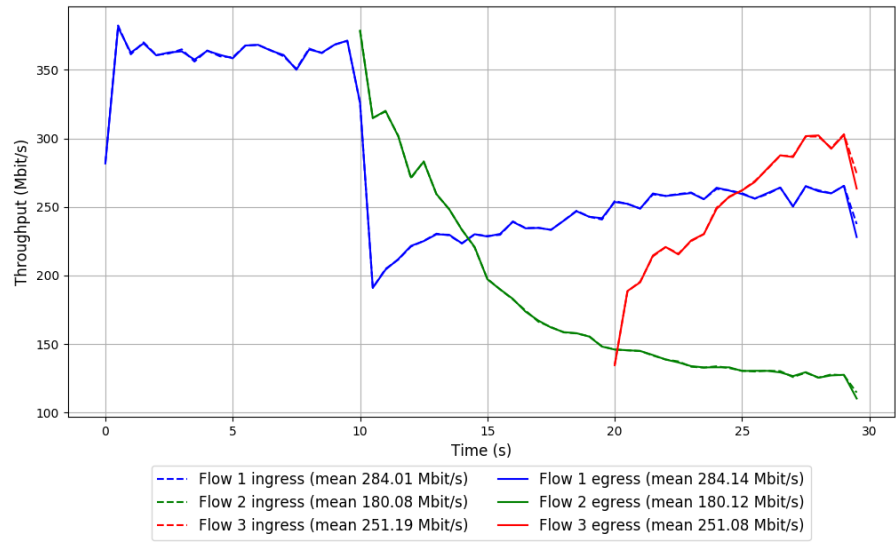


Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 17:06:49
End at: 2018-04-17 17:07:19
Local clock offset: -0.064 ms
Remote clock offset: -6.393 ms

Below is generated by plot.py at 2018-04-17 23:37:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 487.16 Mbit/s
95th percentile per-packet one-way delay: 1.610 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 284.14 Mbit/s
95th percentile per-packet one-way delay: 1.617 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 180.12 Mbit/s
95th percentile per-packet one-way delay: 1.667 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 251.08 Mbit/s
95th percentile per-packet one-way delay: 1.552 ms
Loss rate: 0.24%

Run 10: Report of TCP Vegas — Data Link

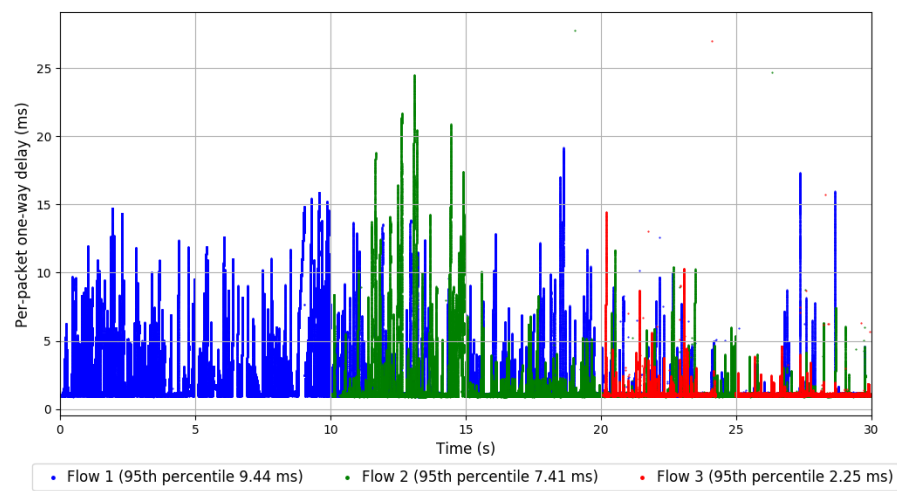
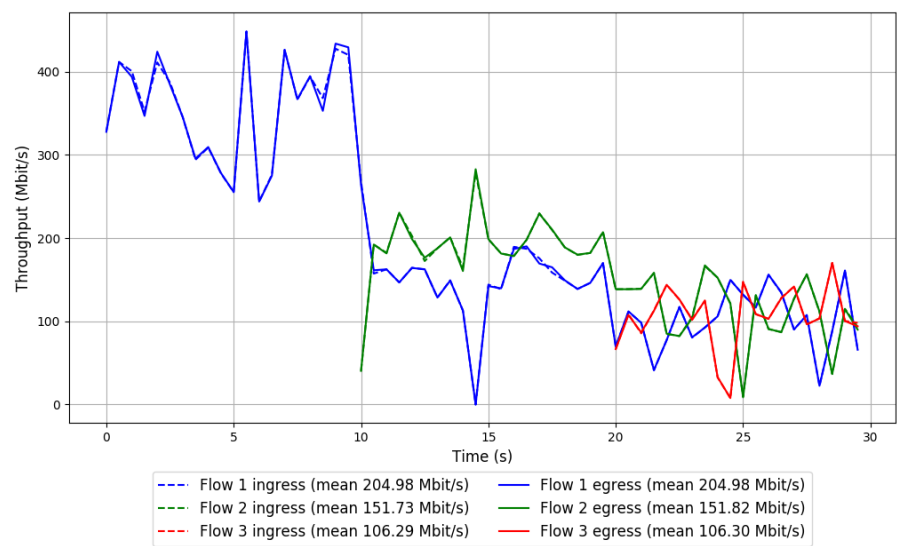


Run 1: Statistics of Verus

Start at: 2018-04-17 13:12:17
End at: 2018-04-17 13:12:47
Local clock offset: 0.308 ms
Remote clock offset: -5.405 ms

Below is generated by plot.py at 2018-04-17 23:37:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.19 Mbit/s
95th percentile per-packet one-way delay: 8.729 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 204.98 Mbit/s
95th percentile per-packet one-way delay: 9.437 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 151.82 Mbit/s
95th percentile per-packet one-way delay: 7.406 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 106.30 Mbit/s
95th percentile per-packet one-way delay: 2.250 ms
Loss rate: 0.21%

Run 1: Report of Verus — Data Link

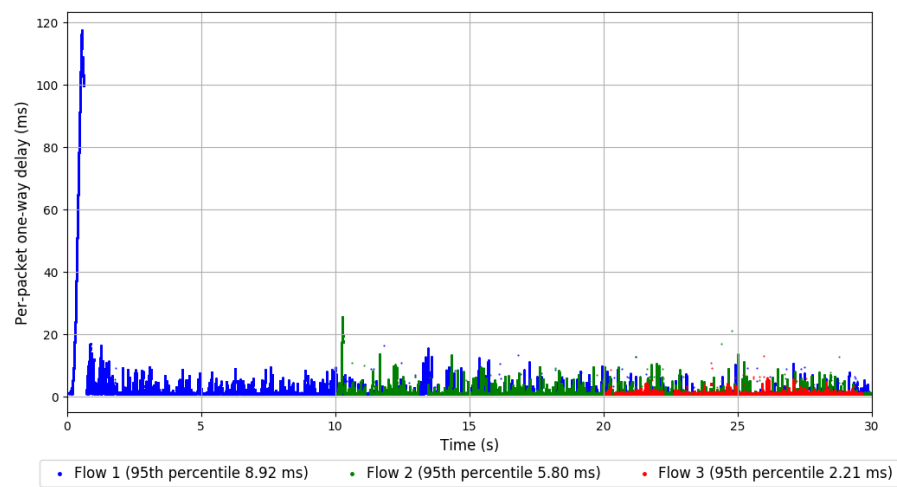
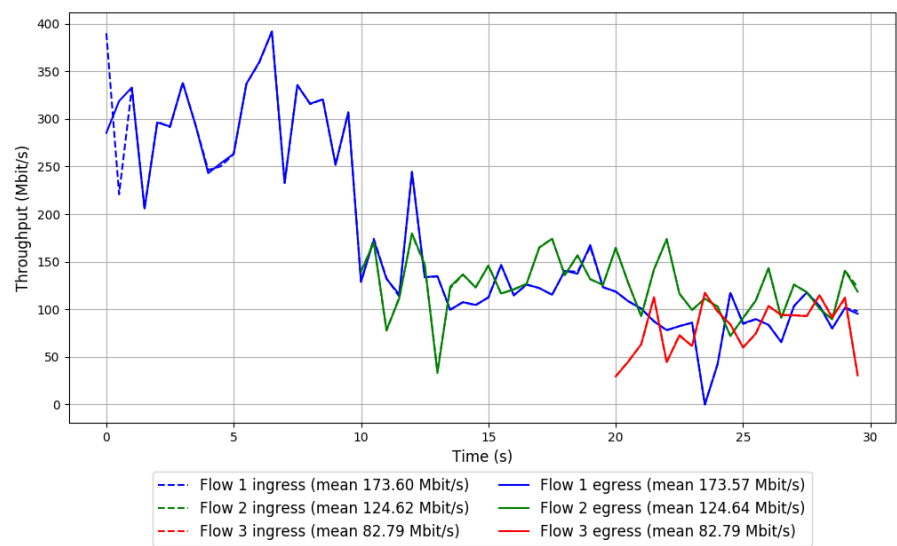


Run 2: Statistics of Verus

Start at: 2018-04-17 13:38:59
End at: 2018-04-17 13:39:29
Local clock offset: 0.169 ms
Remote clock offset: -5.124 ms

Below is generated by plot.py at 2018-04-17 23:37:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 283.17 Mbit/s
95th percentile per-packet one-way delay: 7.443 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 173.57 Mbit/s
95th percentile per-packet one-way delay: 8.922 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 124.64 Mbit/s
95th percentile per-packet one-way delay: 5.801 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 82.79 Mbit/s
95th percentile per-packet one-way delay: 2.210 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

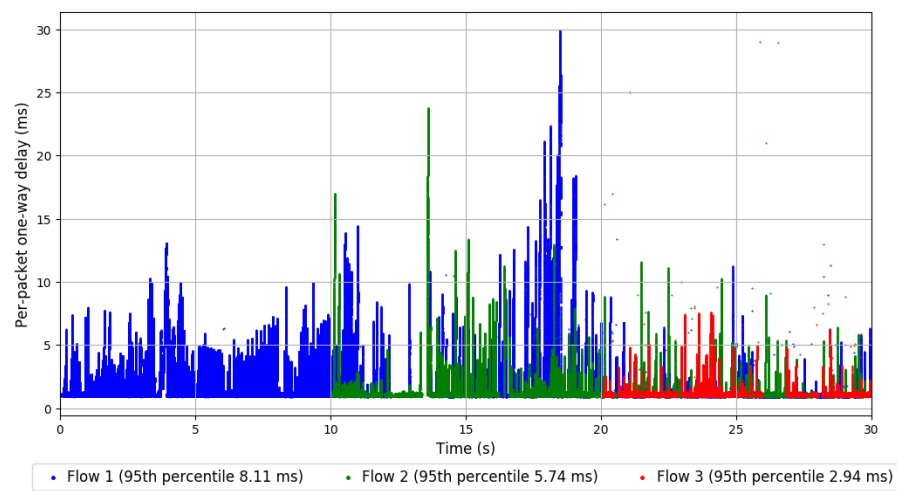
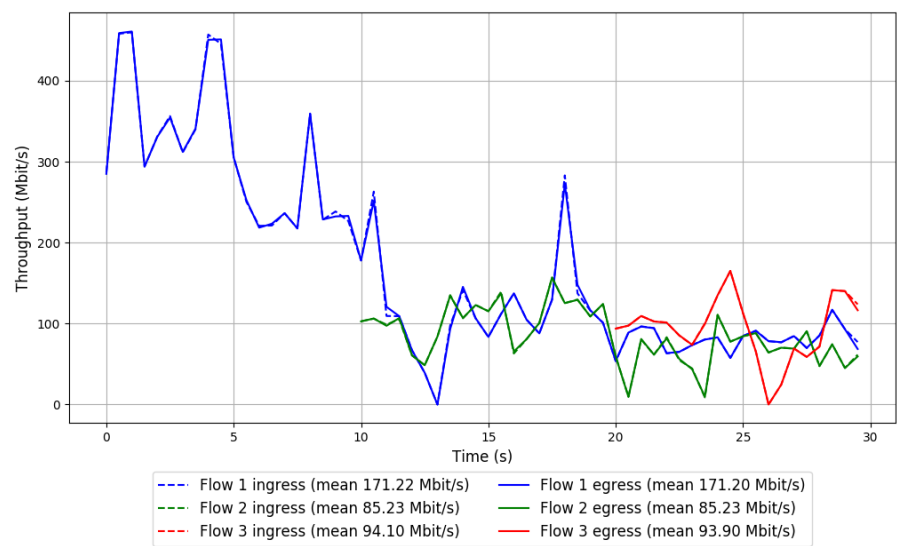


Run 3: Statistics of Verus

Start at: 2018-04-17 14:05:34
End at: 2018-04-17 14:06:04
Local clock offset: 0.297 ms
Remote clock offset: -4.934 ms

Below is generated by plot.py at 2018-04-17 23:37:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 259.06 Mbit/s
95th percentile per-packet one-way delay: 7.142 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 171.20 Mbit/s
95th percentile per-packet one-way delay: 8.105 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 85.23 Mbit/s
95th percentile per-packet one-way delay: 5.737 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 2.936 ms
Loss rate: 0.41%

Run 3: Report of Verus — Data Link

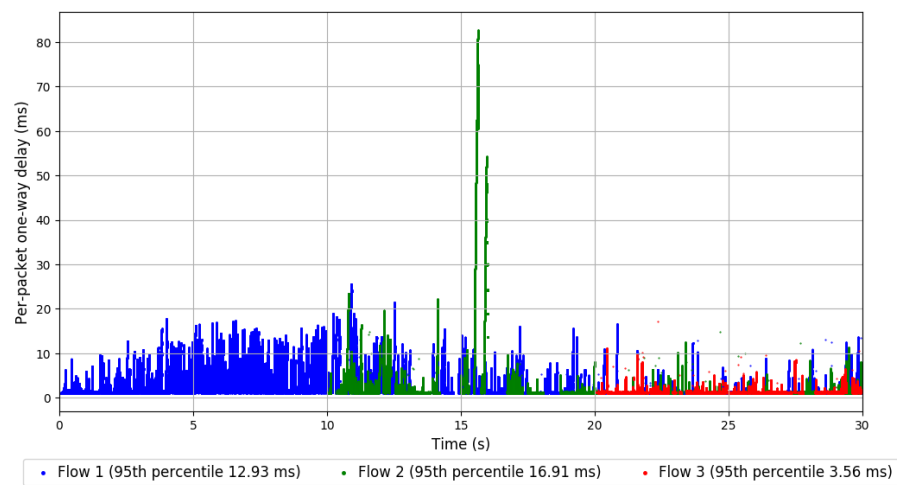
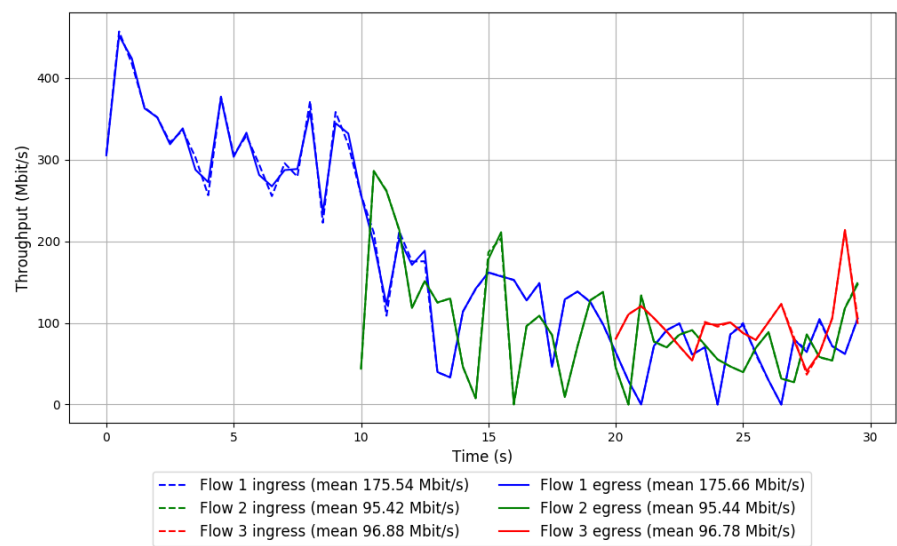


Run 4: Statistics of Verus

Start at: 2018-04-17 14:32:12
End at: 2018-04-17 14:32:42
Local clock offset: 0.372 ms
Remote clock offset: -5.349 ms

Below is generated by plot.py at 2018-04-17 23:37:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 271.27 Mbit/s
95th percentile per-packet one-way delay: 12.727 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 175.66 Mbit/s
95th percentile per-packet one-way delay: 12.927 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 16.914 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 3.555 ms
Loss rate: 0.32%

Run 4: Report of Verus — Data Link

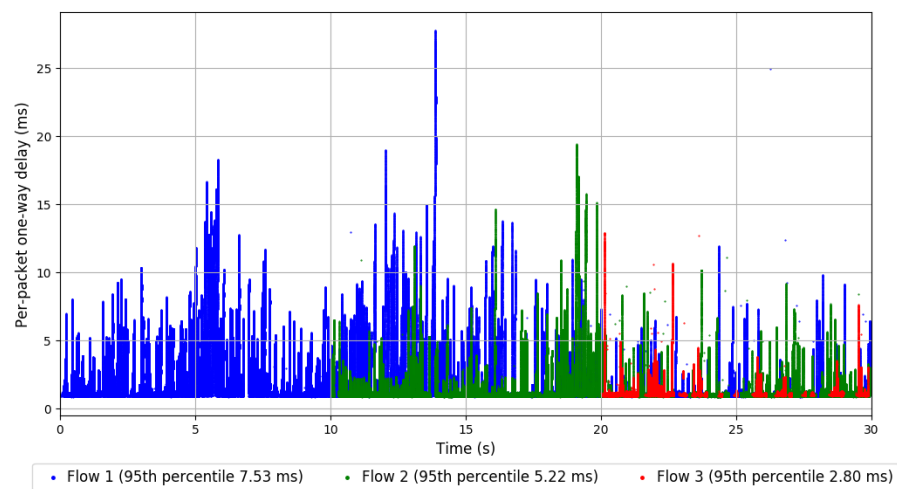
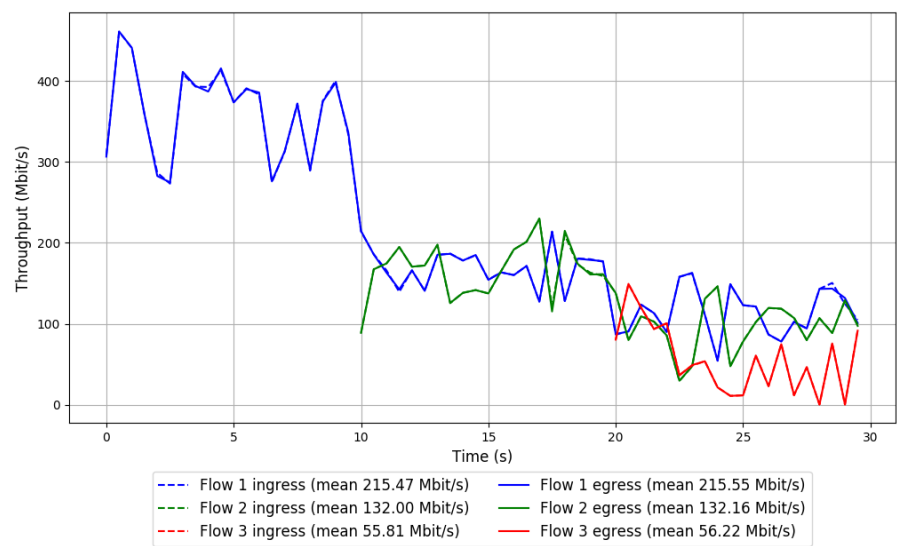


Run 5: Statistics of Verus

Start at: 2018-04-17 14:58:41
End at: 2018-04-17 14:59:11
Local clock offset: 0.056 ms
Remote clock offset: -5.562 ms

Below is generated by plot.py at 2018-04-17 23:38:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 322.05 Mbit/s
95th percentile per-packet one-way delay: 6.857 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 215.55 Mbit/s
95th percentile per-packet one-way delay: 7.525 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 132.16 Mbit/s
95th percentile per-packet one-way delay: 5.218 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 56.22 Mbit/s
95th percentile per-packet one-way delay: 2.802 ms
Loss rate: 0.09%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-17 15:25:08

End at: 2018-04-17 15:25:38

Local clock offset: 0.112 ms

Remote clock offset: -6.29 ms

Below is generated by plot.py at 2018-04-17 23:38:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.75 Mbit/s

95th percentile per-packet one-way delay: 7.200 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 197.50 Mbit/s

95th percentile per-packet one-way delay: 8.189 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 139.74 Mbit/s

95th percentile per-packet one-way delay: 5.396 ms

Loss rate: 0.12%

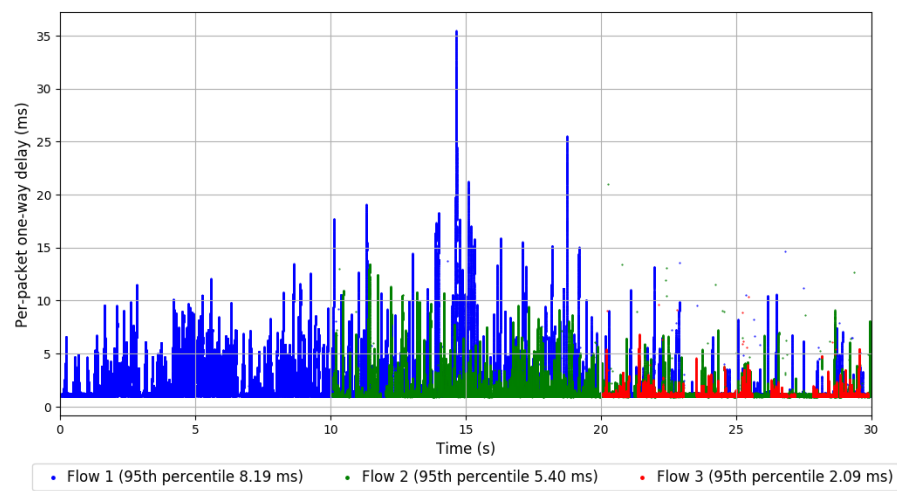
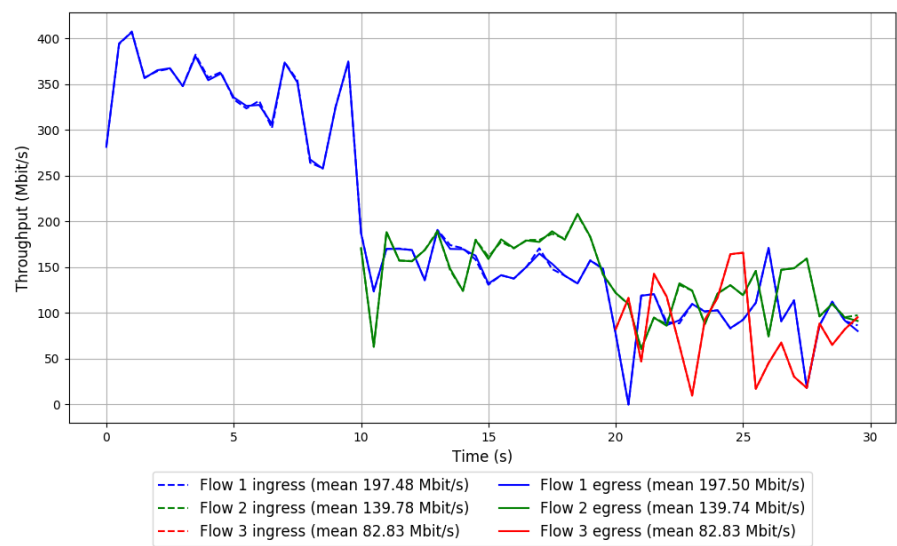
-- Flow 3:

Average throughput: 82.83 Mbit/s

95th percentile per-packet one-way delay: 2.088 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link

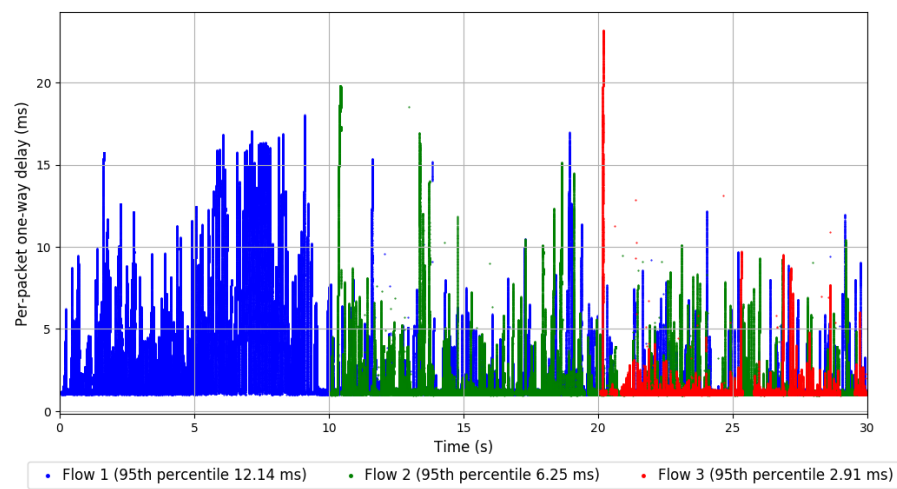
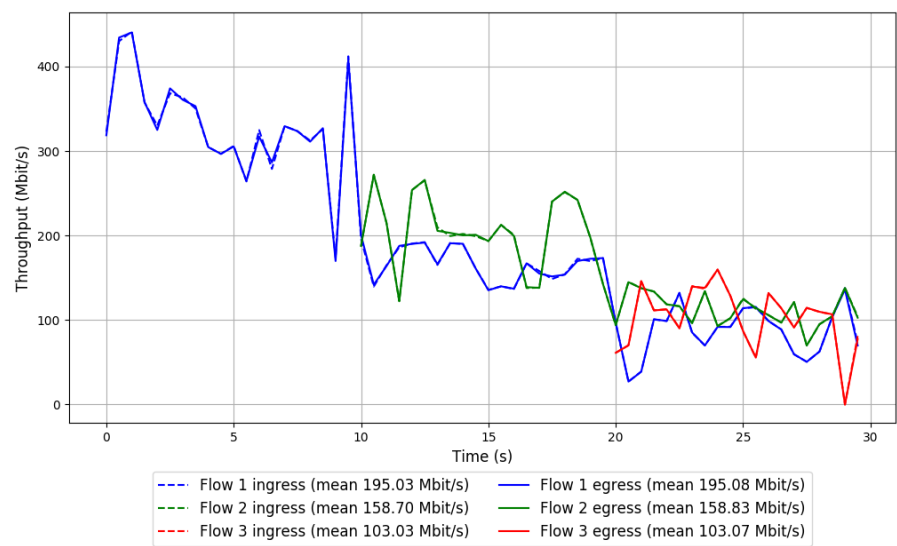


Run 7: Statistics of Verus

Start at: 2018-04-17 15:51:49
End at: 2018-04-17 15:52:19
Local clock offset: 0.245 ms
Remote clock offset: -6.752 ms

Below is generated by plot.py at 2018-04-17 23:38:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.91 Mbit/s
95th percentile per-packet one-way delay: 10.444 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 195.08 Mbit/s
95th percentile per-packet one-way delay: 12.138 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 158.83 Mbit/s
95th percentile per-packet one-way delay: 6.253 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 103.07 Mbit/s
95th percentile per-packet one-way delay: 2.911 ms
Loss rate: 0.18%

Run 7: Report of Verus — Data Link

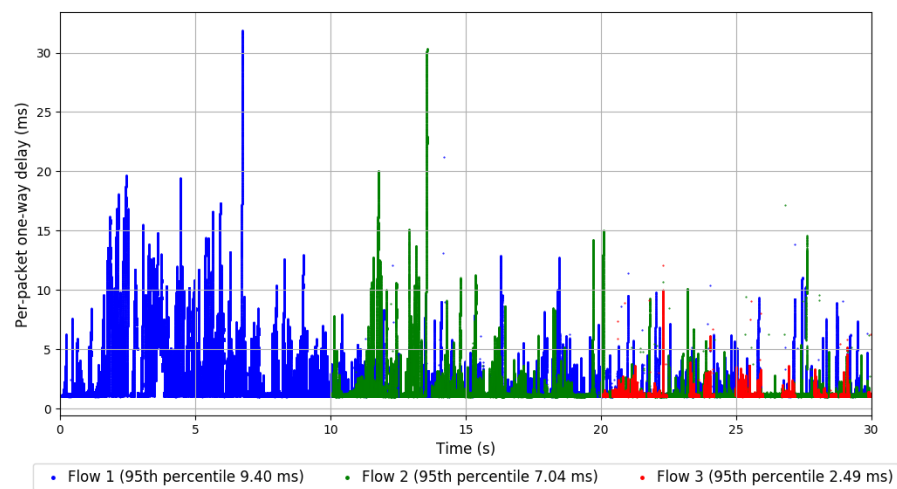
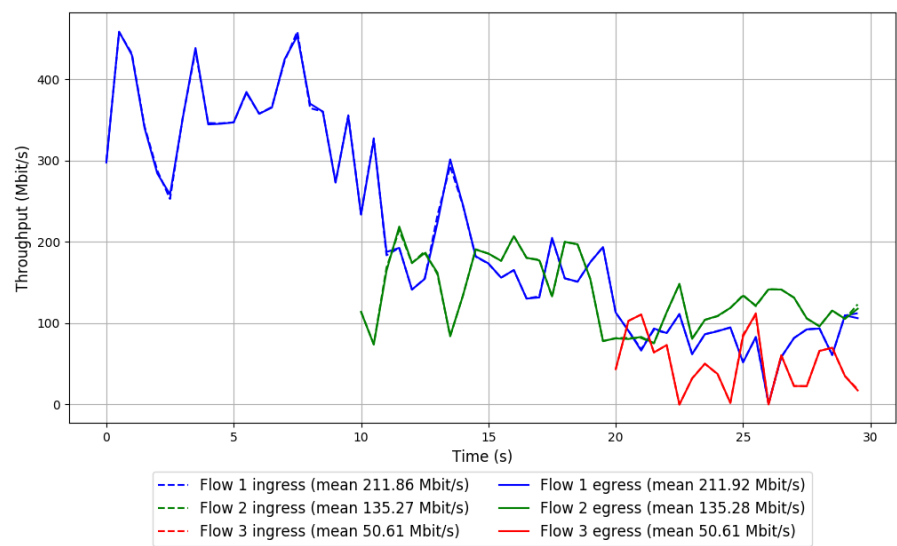


Run 8: Statistics of Verus

Start at: 2018-04-17 16:18:35
End at: 2018-04-17 16:19:05
Local clock offset: 0.105 ms
Remote clock offset: -6.938 ms

Below is generated by plot.py at 2018-04-17 23:38:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 318.70 Mbit/s
95th percentile per-packet one-way delay: 8.825 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 211.92 Mbit/s
95th percentile per-packet one-way delay: 9.401 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 135.28 Mbit/s
95th percentile per-packet one-way delay: 7.039 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 50.61 Mbit/s
95th percentile per-packet one-way delay: 2.486 ms
Loss rate: 0.13%

Run 8: Report of Verus — Data Link

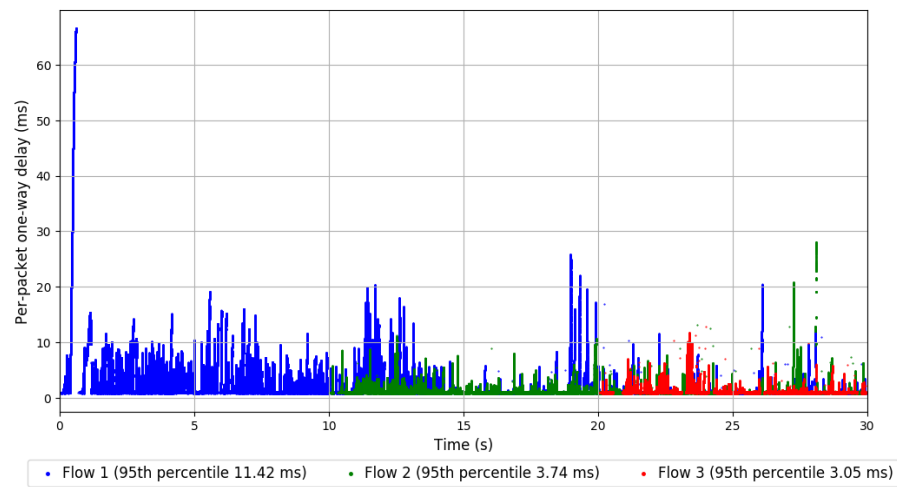
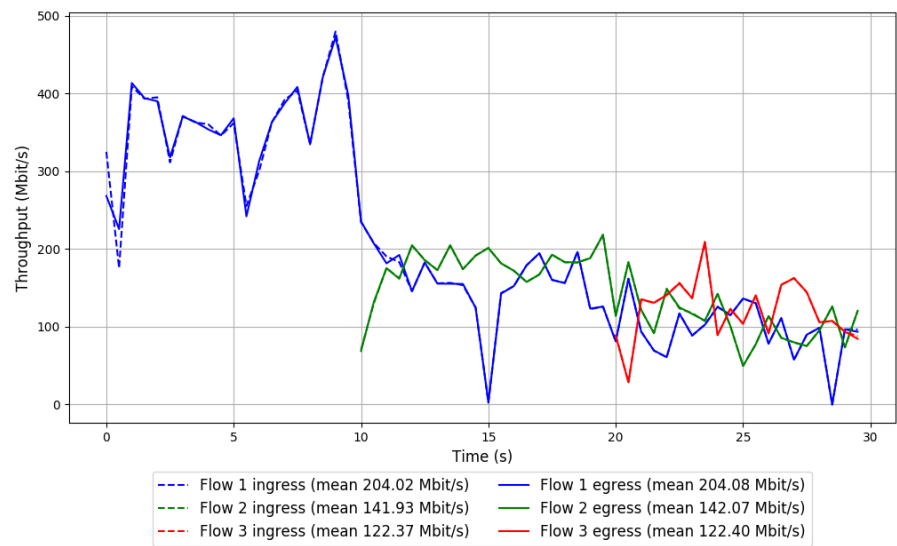


Run 9: Statistics of Verus

Start at: 2018-04-17 16:45:07
End at: 2018-04-17 16:45:37
Local clock offset: -0.211 ms
Remote clock offset: -6.457 ms

Below is generated by plot.py at 2018-04-17 23:39:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 339.14 Mbit/s
95th percentile per-packet one-way delay: 8.741 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 204.08 Mbit/s
95th percentile per-packet one-way delay: 11.418 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 142.07 Mbit/s
95th percentile per-packet one-way delay: 3.736 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 122.40 Mbit/s
95th percentile per-packet one-way delay: 3.048 ms
Loss rate: 0.14%

Run 9: Report of Verus — Data Link

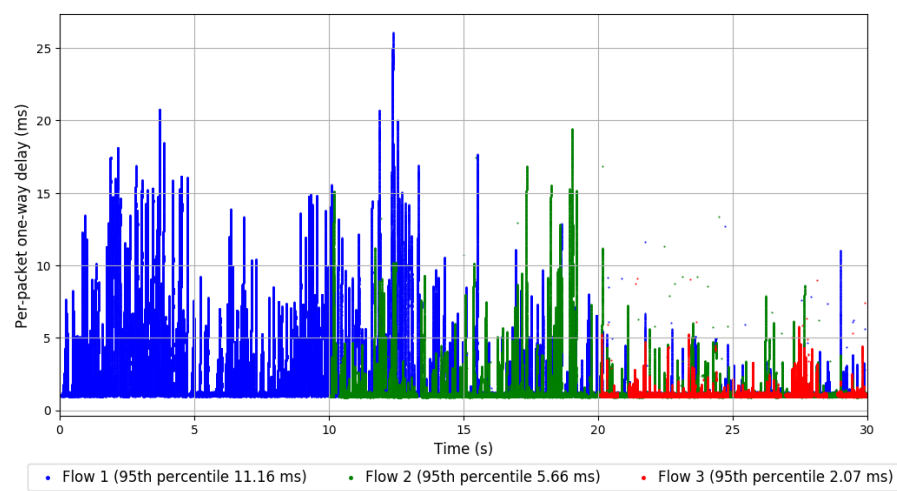
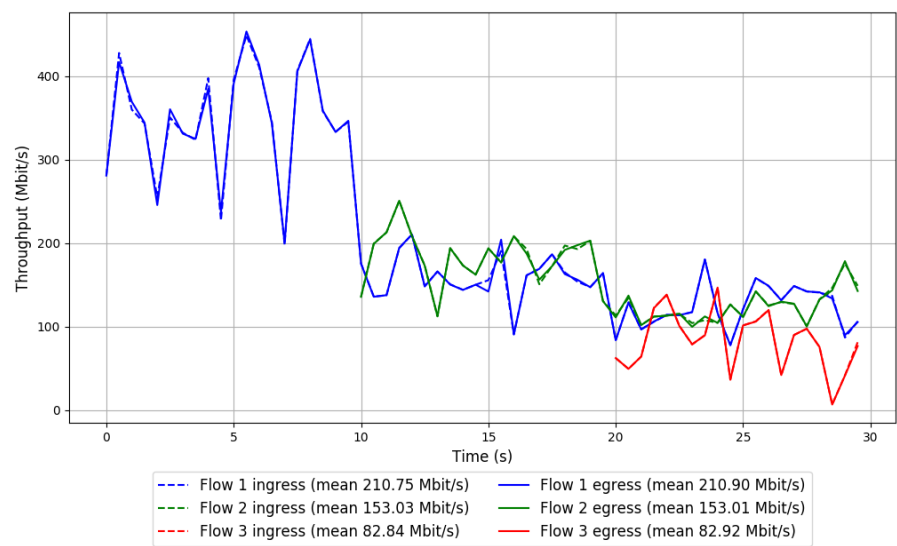


Run 10: Statistics of Verus

Start at: 2018-04-17 17:11:44
End at: 2018-04-17 17:12:14
Local clock offset: -0.167 ms
Remote clock offset: -6.379 ms

Below is generated by plot.py at 2018-04-17 23:40:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.19 Mbit/s
95th percentile per-packet one-way delay: 9.642 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 210.90 Mbit/s
95th percentile per-packet one-way delay: 11.159 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 153.01 Mbit/s
95th percentile per-packet one-way delay: 5.658 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 82.92 Mbit/s
95th percentile per-packet one-way delay: 2.073 ms
Loss rate: 0.30%

Run 10: Report of Verus — Data Link

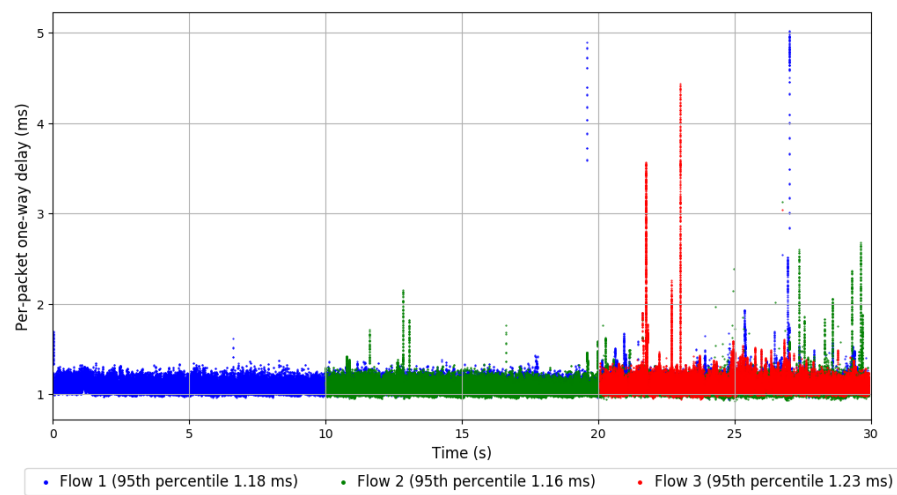
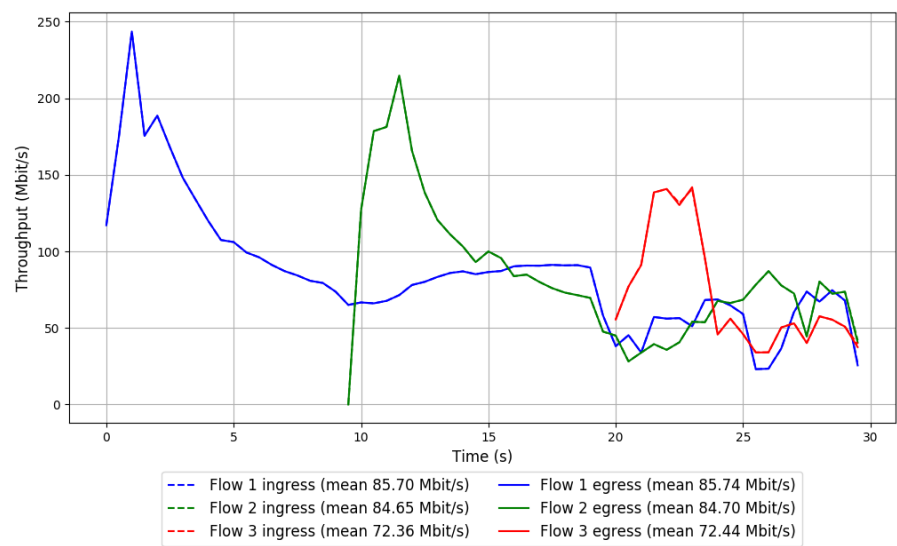


Run 1: Statistics of Copa

Start at: 2018-04-17 13:15:11
End at: 2018-04-17 13:15:41
Local clock offset: 0.436 ms
Remote clock offset: -5.274 ms

Below is generated by plot.py at 2018-04-17 23:41:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 166.09 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 1.176 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 84.70 Mbit/s
95th percentile per-packet one-way delay: 1.161 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 72.44 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.14%

Run 1: Report of Copa — Data Link

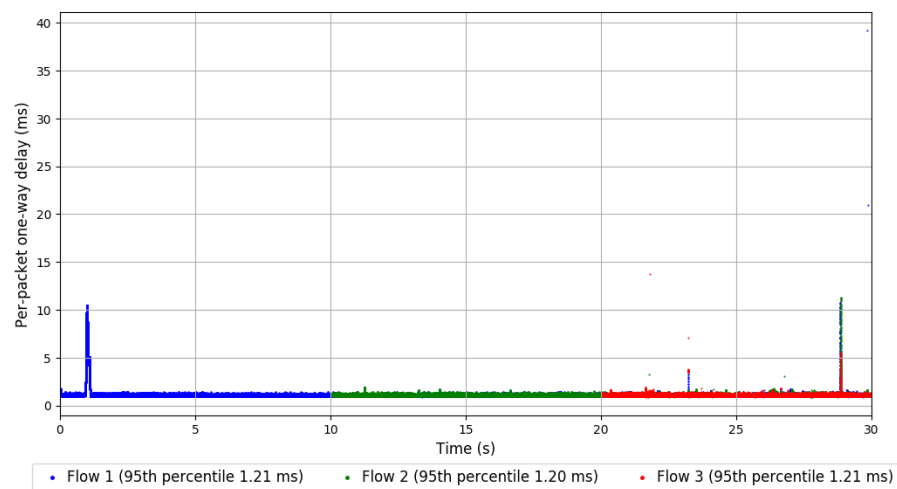
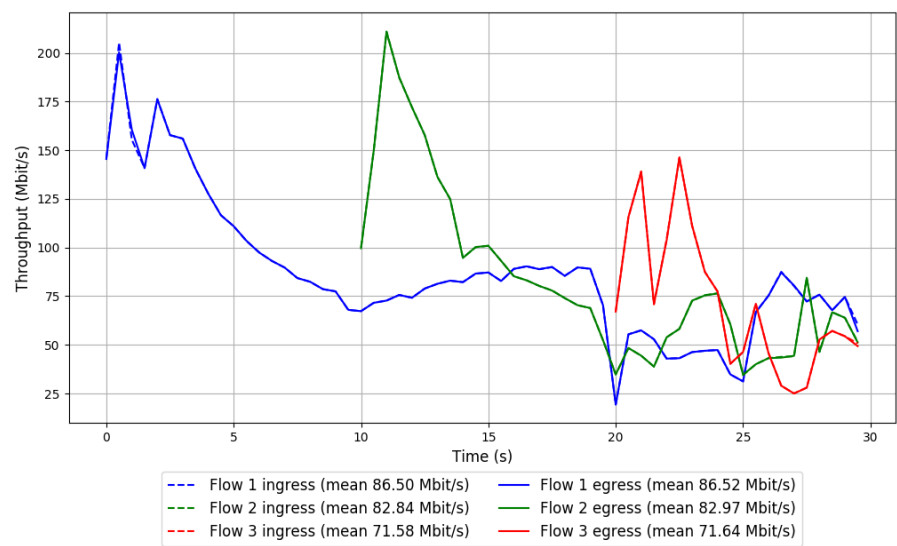


Run 2: Statistics of Copa

Start at: 2018-04-17 13:41:50
End at: 2018-04-17 13:42:20
Local clock offset: 0.095 ms
Remote clock offset: -5.127 ms

Below is generated by plot.py at 2018-04-17 23:42:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 165.33 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 1.214 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 82.97 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 71.64 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.11%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

End at: 2018-04-17 14:08:54

Local clock offset: 0.245 ms

Remote clock offset: -5.15 ms

Below is generated by plot.py at 2018-04-17 23:42:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 161.36 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 82.93 Mbit/s

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

Loss rate: 0.03%

-- Flow 2:

Average throughput: 82.84 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.14%

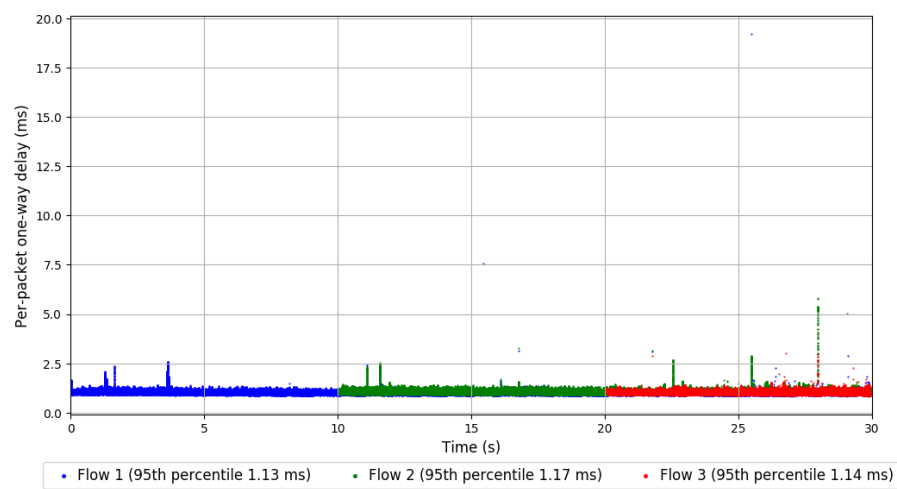
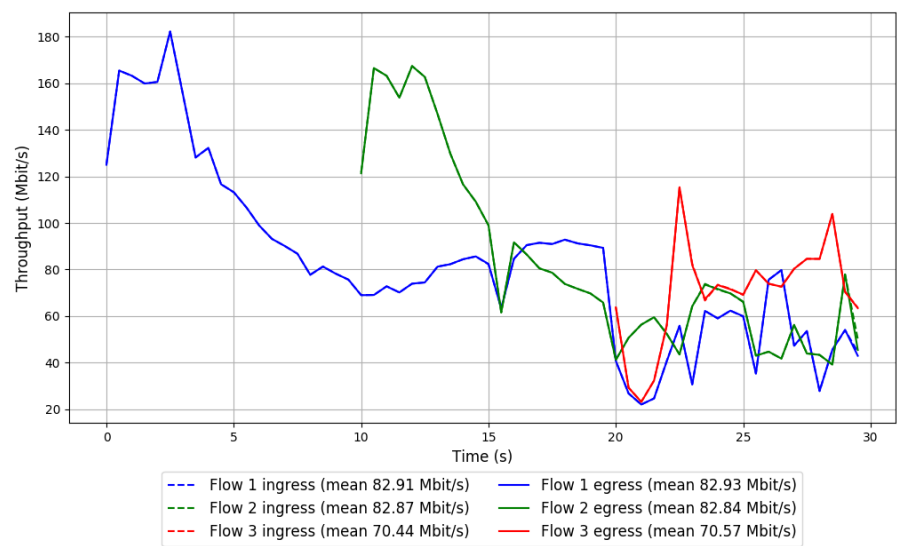
-- Flow 3:

Average throughput: 70.57 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.03%

Run 3: Report of Copa — Data Link

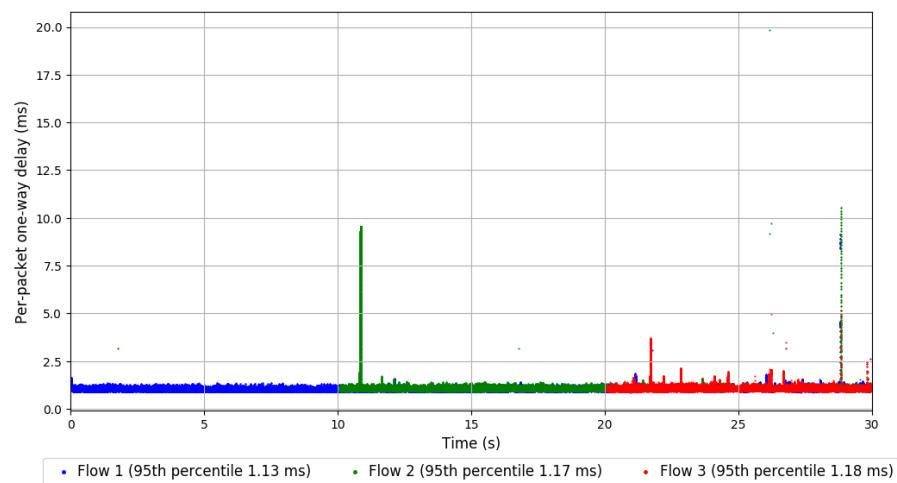
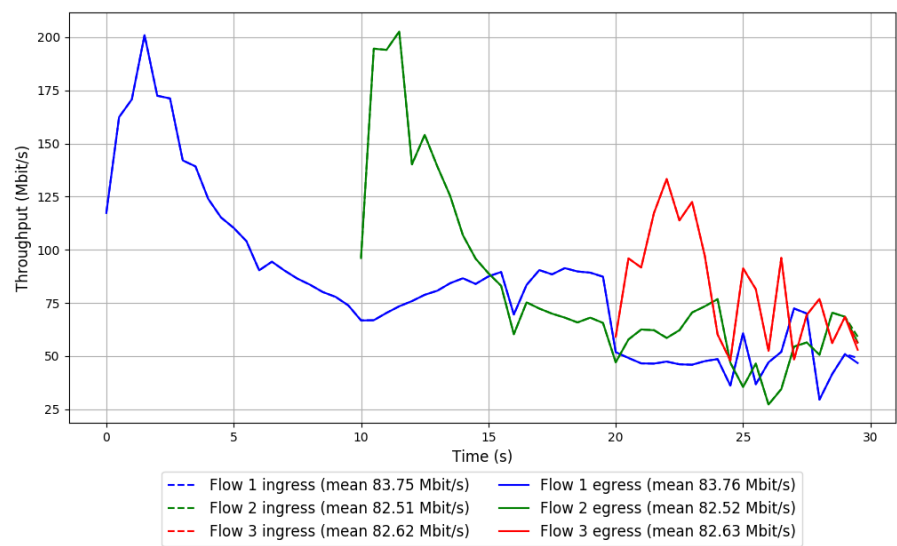


Run 4: Statistics of Copa

Start at: 2018-04-17 14:35:03
End at: 2018-04-17 14:35:33
Local clock offset: 0.334 ms
Remote clock offset: -5.224 ms

Below is generated by plot.py at 2018-04-17 23:42:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 165.88 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 83.76 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 82.52 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 82.63 Mbit/s
95th percentile per-packet one-way delay: 1.181 ms
Loss rate: 0.18%

Run 4: Report of Copa — Data Link

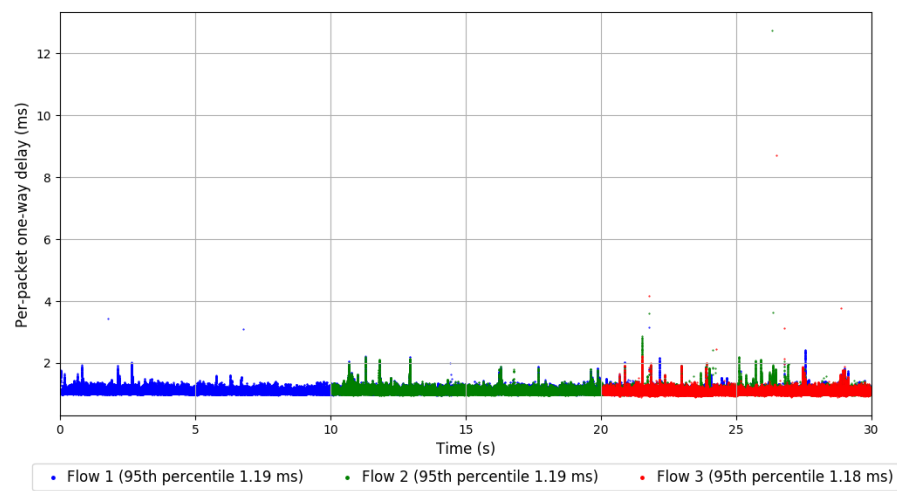
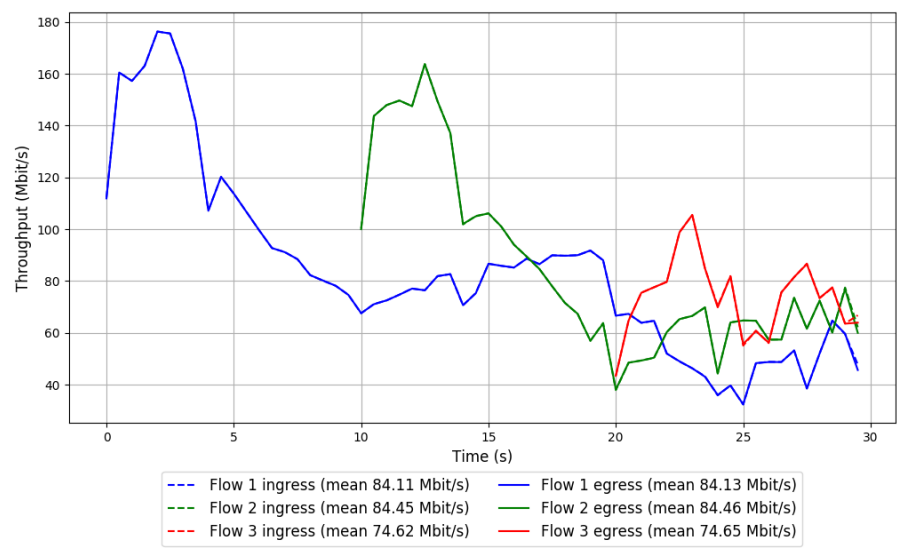


Run 5: Statistics of Copa

Start at: 2018-04-17 15:01:35
End at: 2018-04-17 15:02:05
Local clock offset: 0.192 ms
Remote clock offset: -5.519 ms

```
# Below is generated by plot.py at 2018-04-17 23:43:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.99 Mbit/s
95th percentile per-packet one-way delay: 1.190 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 84.13 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 74.65 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.20%
```

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-17 15:28:02

End at: 2018-04-17 15:28:32

Local clock offset: 0.029 ms

Remote clock offset: -6.45 ms

Below is generated by plot.py at 2018-04-17 23:43:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 162.64 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 82.39 Mbit/s

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

Loss rate: 0.07%

-- Flow 2:

Average throughput: 84.62 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.05%

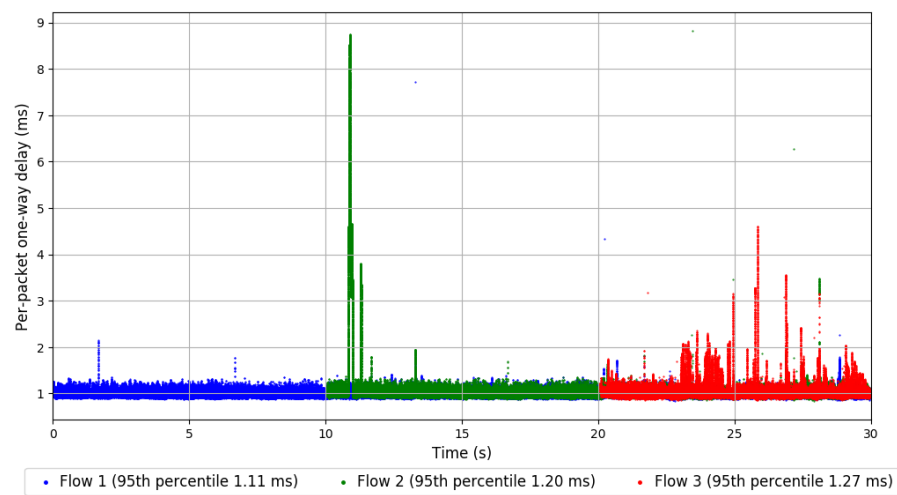
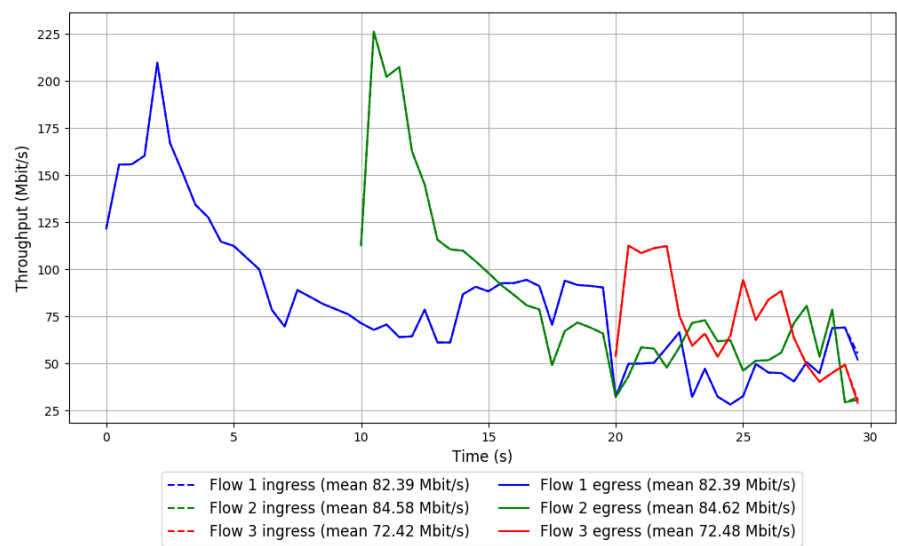
-- Flow 3:

Average throughput: 72.48 Mbit/s

95th percentile per-packet one-way delay: 1.274 ms

Loss rate: 0.12%

Run 6: Report of Copa — Data Link

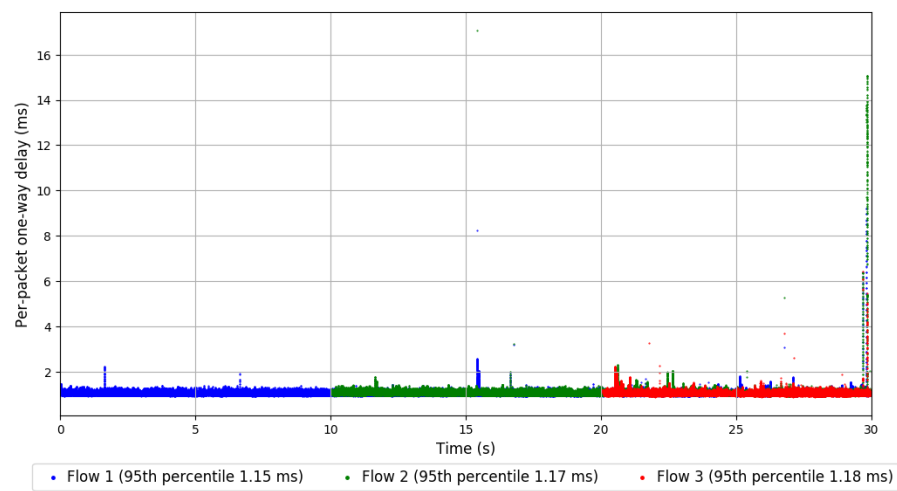
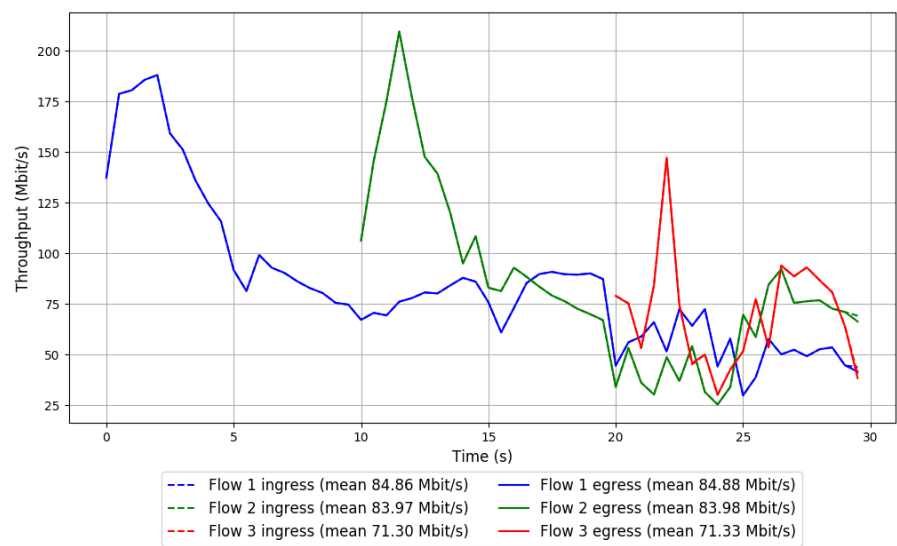


Run 7: Statistics of Copa

Start at: 2018-04-17 15:54:43
End at: 2018-04-17 15:55:13
Local clock offset: 0.221 ms
Remote clock offset: -6.807 ms

```
# Below is generated by plot.py at 2018-04-17 23:43:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.29 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 83.98 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 71.33 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.15%
```

Run 7: Report of Copa — Data Link

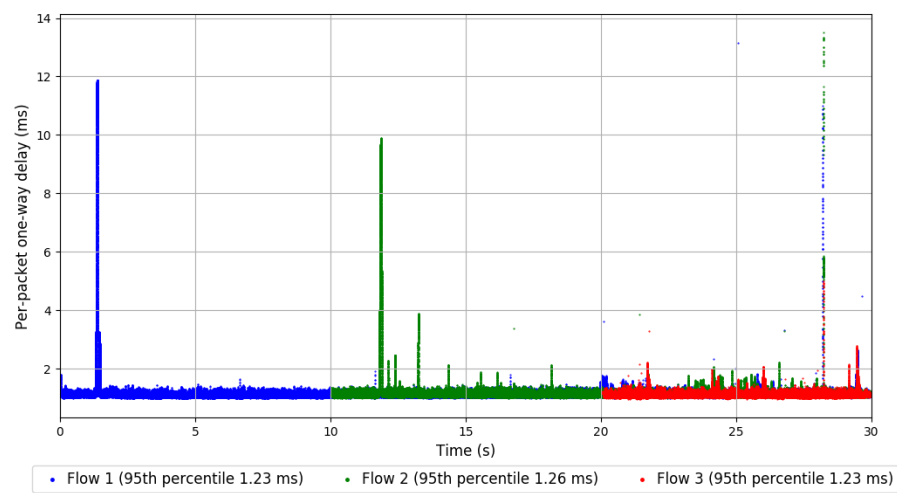
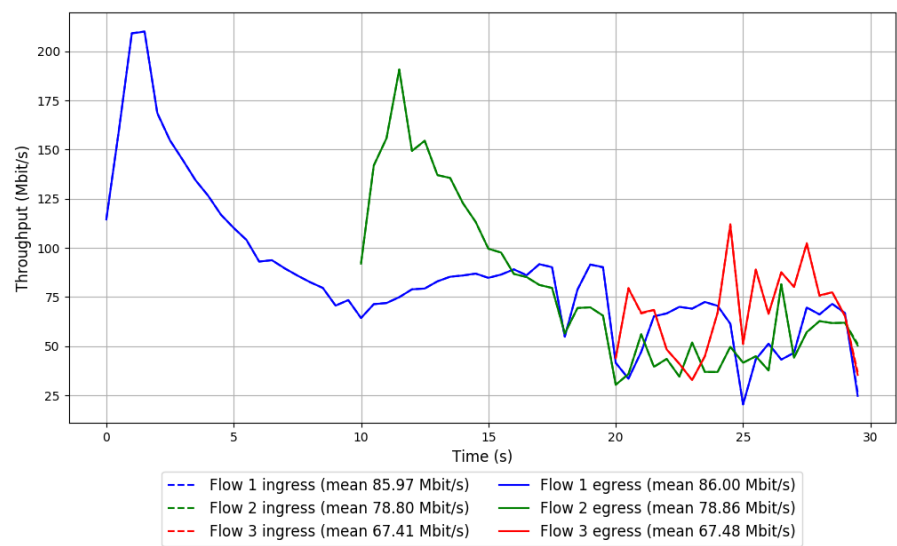


Run 8: Statistics of Copa

Start at: 2018-04-17 16:21:29
End at: 2018-04-17 16:21:59
Local clock offset: 0.06 ms
Remote clock offset: -6.908 ms

Below is generated by plot.py at 2018-04-17 23:45:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 160.77 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 78.86 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 67.48 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.11%

Run 8: Report of Copa — Data Link

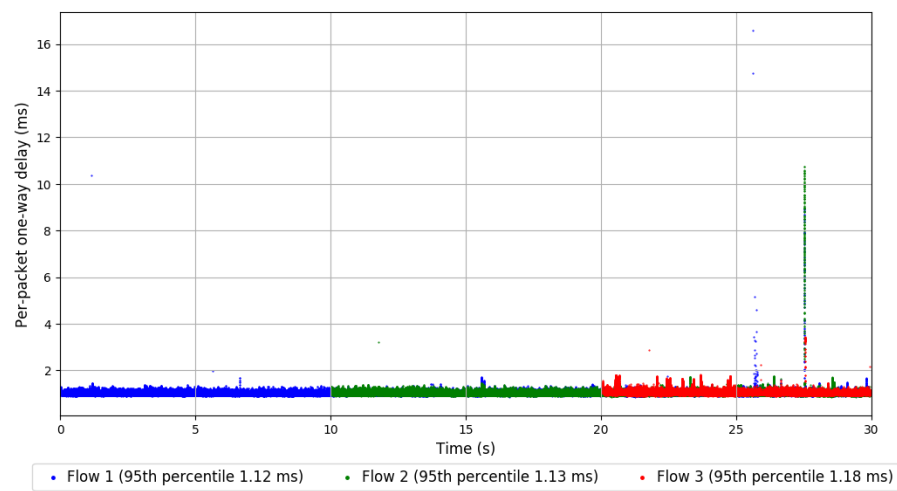
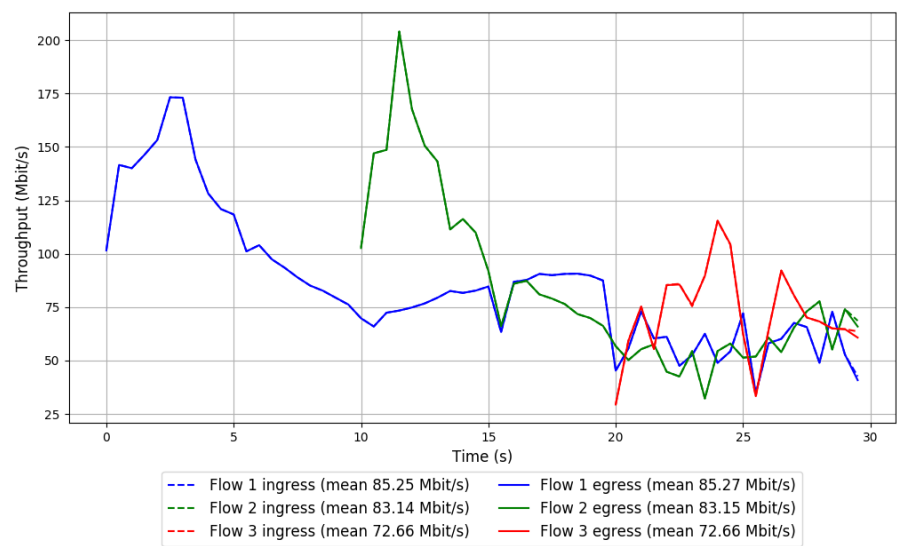


Run 9: Statistics of Copa

Start at: 2018-04-17 16:48:02
End at: 2018-04-17 16:48:32
Local clock offset: -0.116 ms
Remote clock offset: -6.466 ms

Below is generated by plot.py at 2018-04-17 23:46:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 164.60 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 1.124 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 83.15 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.21%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 17:14:39

End at: 2018-04-17 17:15:09

Local clock offset: -0.077 ms

Remote clock offset: -6.35 ms

Below is generated by plot.py at 2018-04-17 23:46:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.90 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 82.93 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 1.163 ms

Loss rate: 0.07%

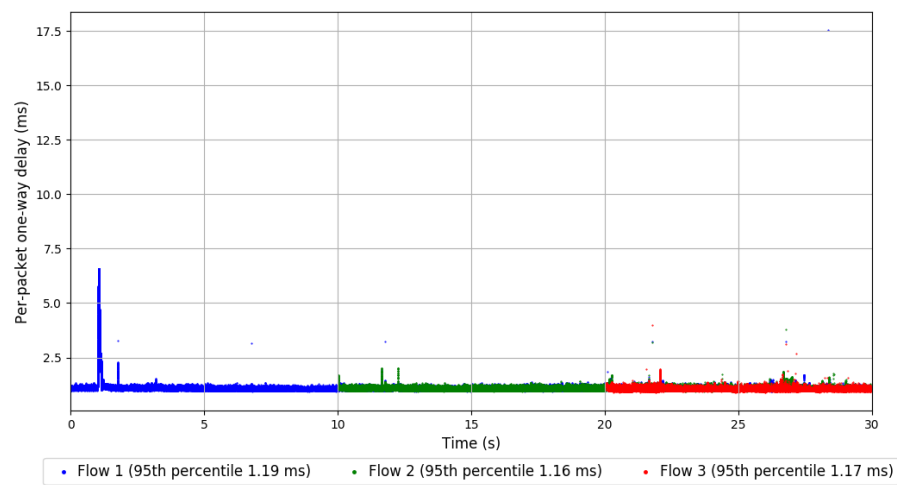
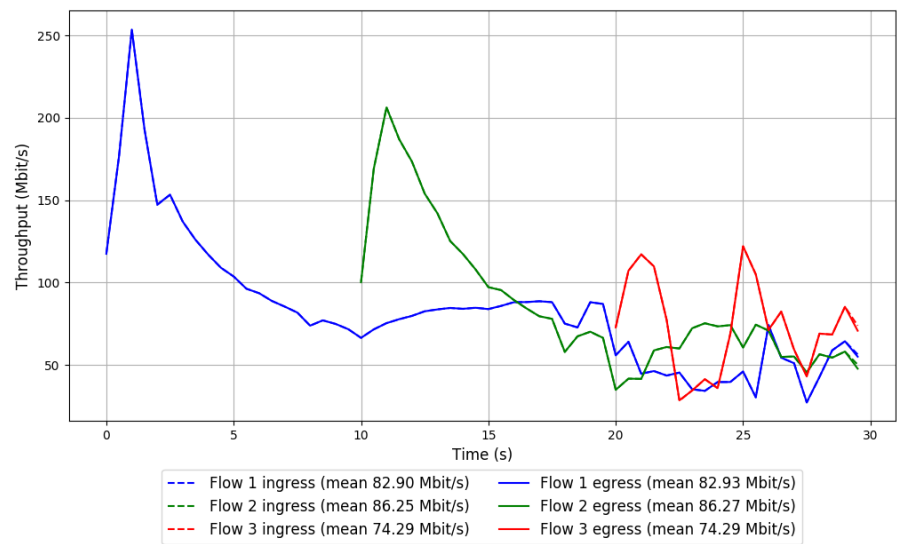
-- Flow 3:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.22%

Run 10: Report of Copa — Data Link

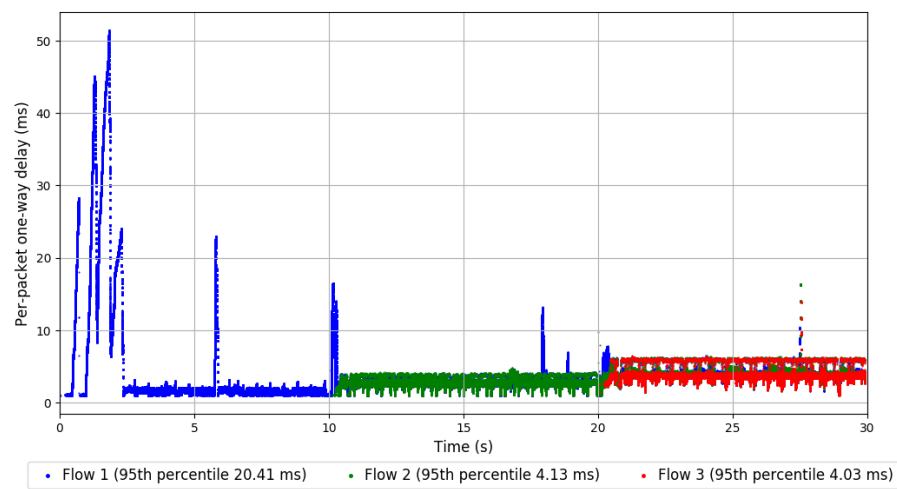
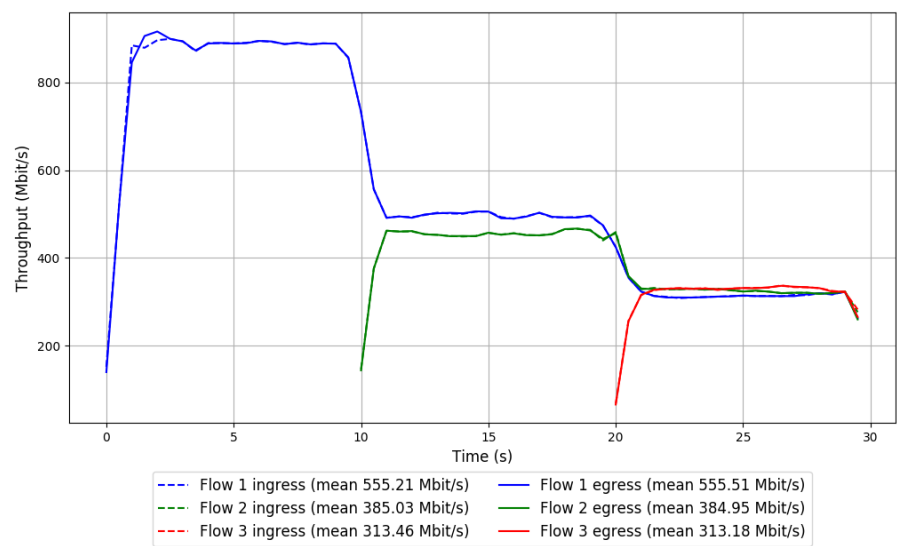


Run 1: Statistics of FillP

Start at: 2018-04-17 13:29:00
End at: 2018-04-17 13:29:30
Local clock offset: 0.281 ms
Remote clock offset: -4.954 ms

Below is generated by plot.py at 2018-04-17 23:57:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 914.78 Mbit/s
95th percentile per-packet one-way delay: 10.251 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 555.51 Mbit/s
95th percentile per-packet one-way delay: 20.405 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 384.95 Mbit/s
95th percentile per-packet one-way delay: 4.129 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 313.18 Mbit/s
95th percentile per-packet one-way delay: 4.032 ms
Loss rate: 0.31%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 13:55:42

End at: 2018-04-17 13:56:12

Local clock offset: 0.132 ms

Remote clock offset: -5.0 ms

Below is generated by plot.py at 2018-04-17 23:57:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 878.41 Mbit/s

95th percentile per-packet one-way delay: 55.116 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 320.44 Mbit/s

95th percentile per-packet one-way delay: 2.752 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 612.14 Mbit/s

95th percentile per-packet one-way delay: 61.118 ms

Loss rate: 1.42%

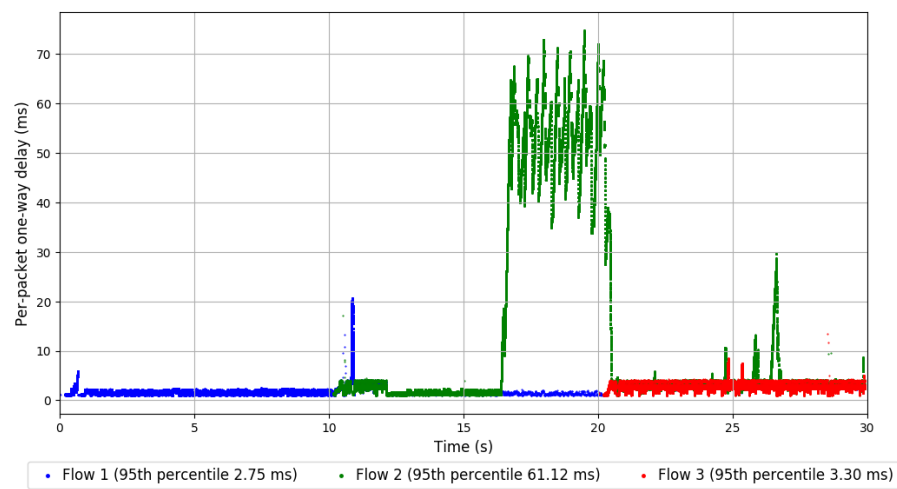
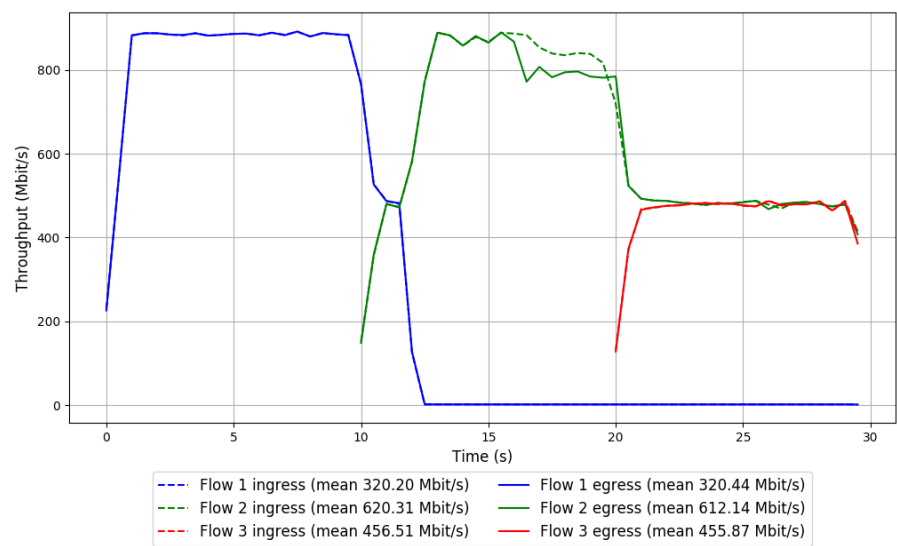
-- Flow 3:

Average throughput: 455.87 Mbit/s

95th percentile per-packet one-way delay: 3.303 ms

Loss rate: 0.34%

Run 2: Report of FillP — Data Link

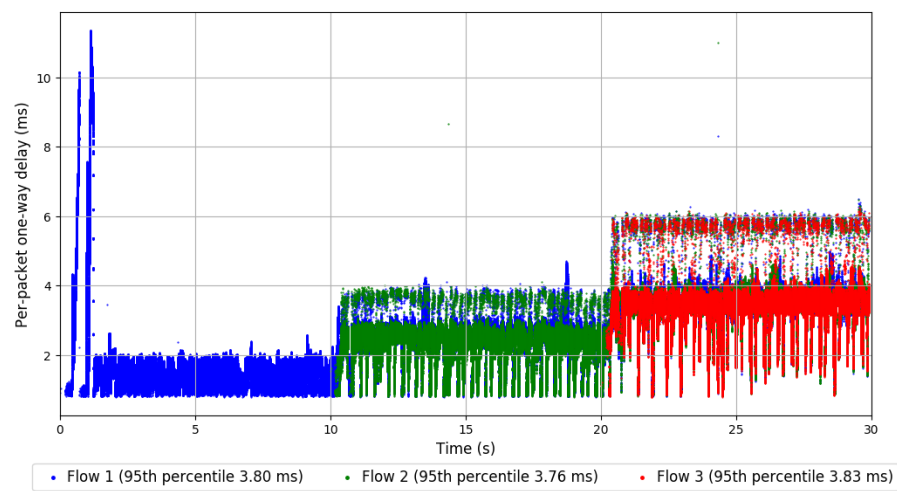
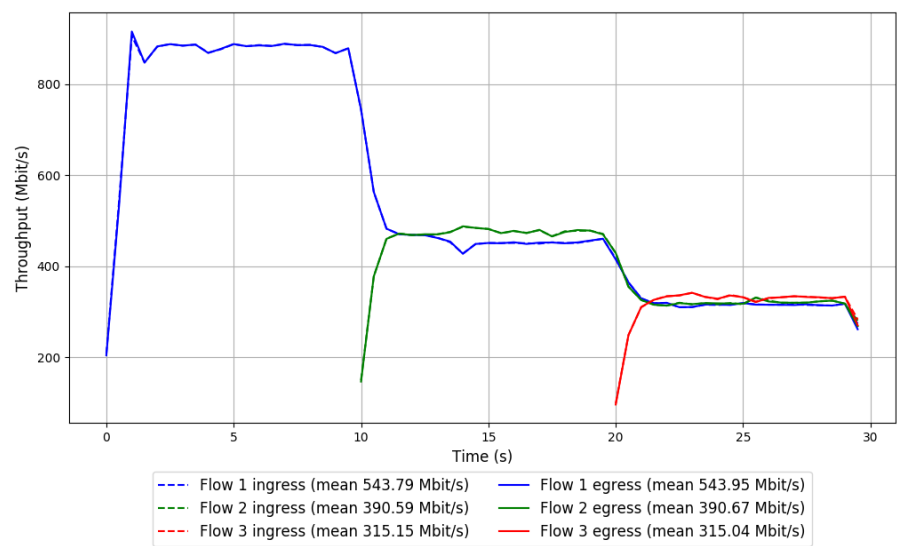


Run 3: Statistics of FillP

Start at: 2018-04-17 14:22:15
End at: 2018-04-17 14:22:45
Local clock offset: 0.317 ms
Remote clock offset: -5.236 ms

Below is generated by plot.py at 2018-04-17 23:58:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 908.11 Mbit/s
95th percentile per-packet one-way delay: 3.791 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 543.95 Mbit/s
95th percentile per-packet one-way delay: 3.802 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 390.67 Mbit/s
95th percentile per-packet one-way delay: 3.756 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 315.04 Mbit/s
95th percentile per-packet one-way delay: 3.831 ms
Loss rate: 0.24%

Run 3: Report of FillP — Data Link

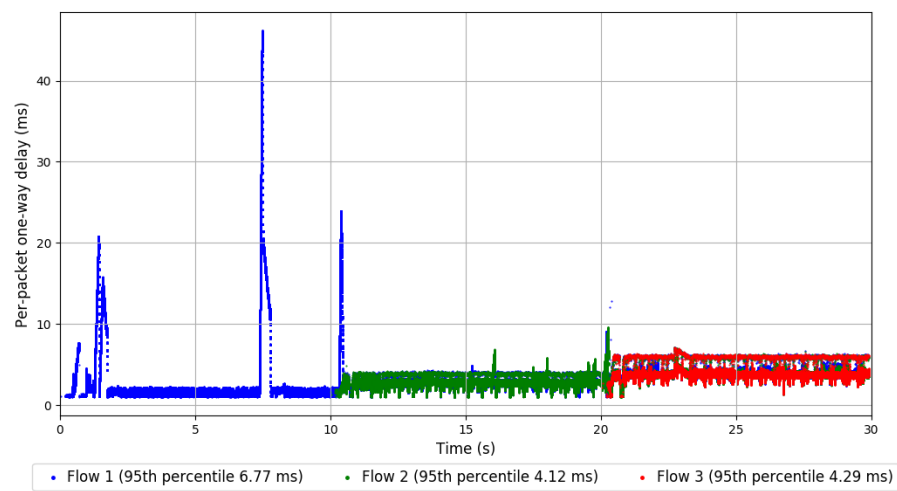
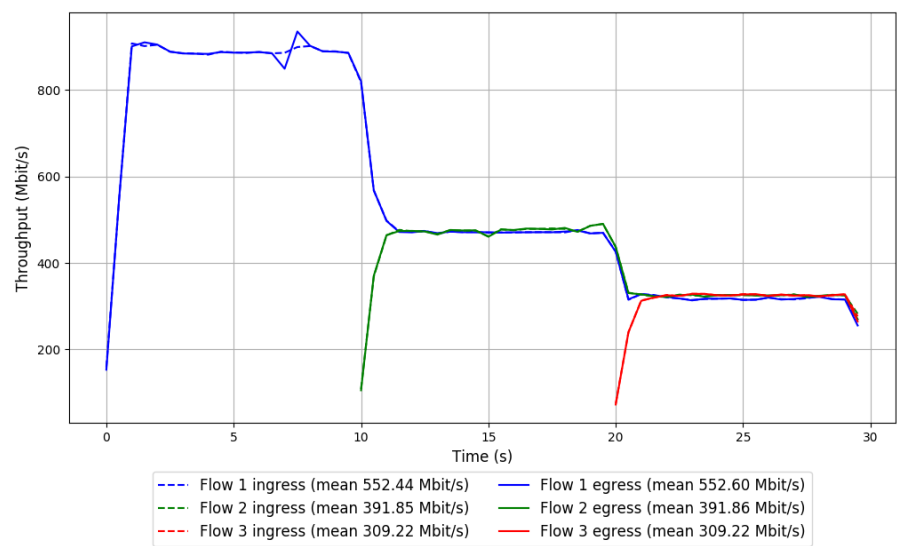


Run 4: Statistics of FillP

Start at: 2018-04-17 14:48:49
End at: 2018-04-17 14:49:19
Local clock offset: 0.204 ms
Remote clock offset: -5.442 ms

Below is generated by plot.py at 2018-04-17 23:58:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 915.30 Mbit/s
95th percentile per-packet one-way delay: 4.533 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 552.60 Mbit/s
95th percentile per-packet one-way delay: 6.770 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 391.86 Mbit/s
95th percentile per-packet one-way delay: 4.121 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 309.22 Mbit/s
95th percentile per-packet one-way delay: 4.285 ms
Loss rate: 0.23%

Run 4: Report of FillP — Data Link

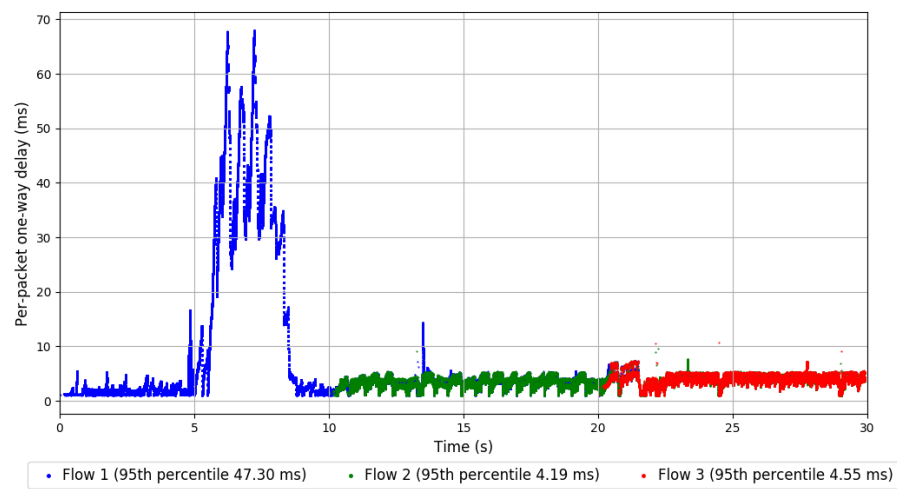
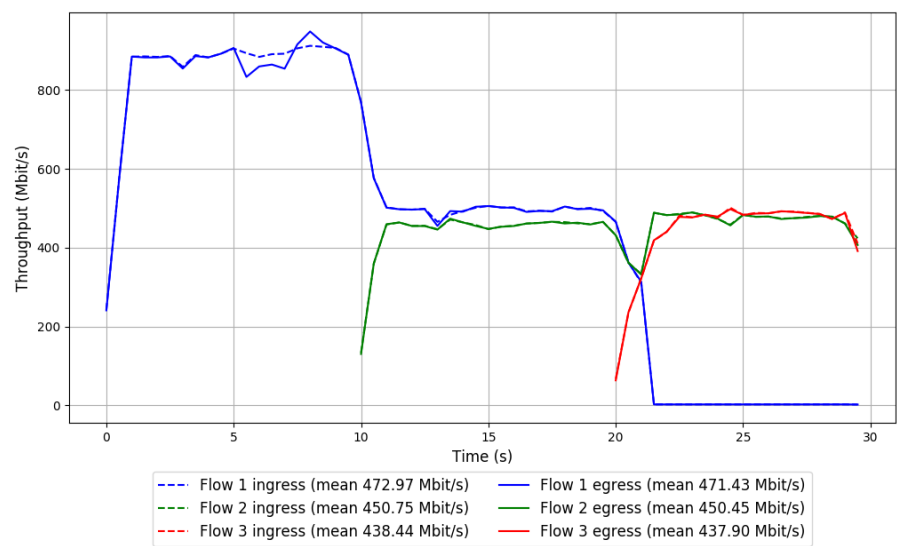


Run 5: Statistics of FillP

Start at: 2018-04-17 15:15:16
End at: 2018-04-17 15:15:46
Local clock offset: 0.122 ms
Remote clock offset: -5.827 ms

Below is generated by plot.py at 2018-04-17 23:58:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 915.70 Mbit/s
95th percentile per-packet one-way delay: 35.497 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 471.43 Mbit/s
95th percentile per-packet one-way delay: 47.303 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 450.45 Mbit/s
95th percentile per-packet one-way delay: 4.186 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 437.90 Mbit/s
95th percentile per-packet one-way delay: 4.548 ms
Loss rate: 0.34%

Run 5: Report of FillP — Data Link

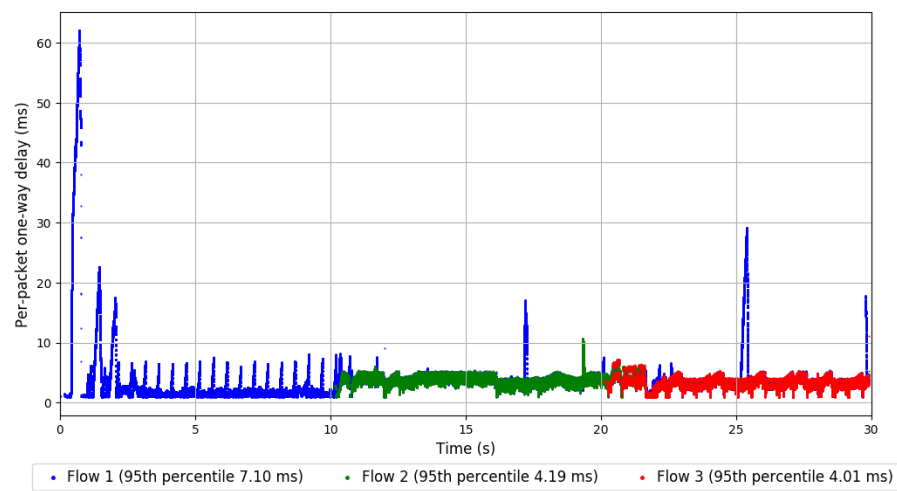
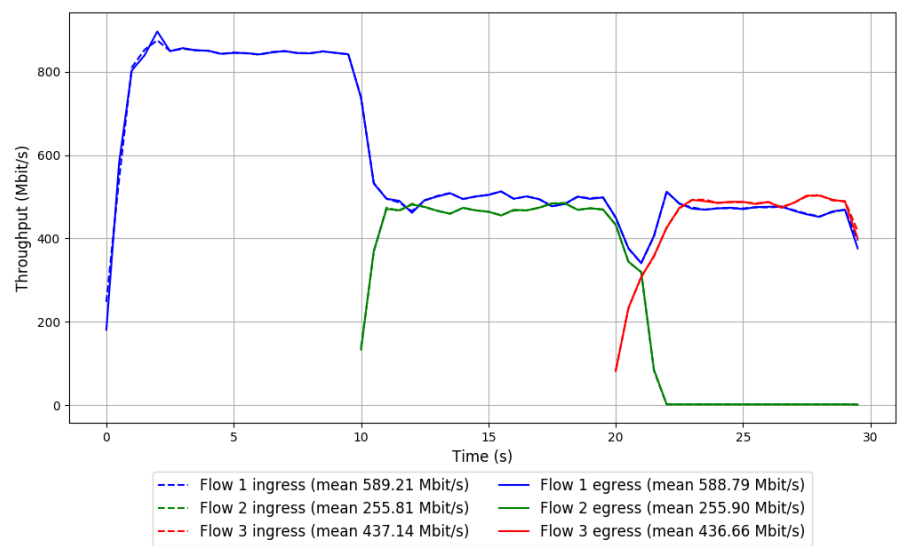


Run 6: Statistics of FillP

Start at: 2018-04-17 15:41:56
End at: 2018-04-17 15:42:26
Local clock offset: 0.188 ms
Remote clock offset: -6.604 ms

Below is generated by plot.py at 2018-04-18 00:00:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 903.35 Mbit/s
95th percentile per-packet one-way delay: 5.400 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 588.79 Mbit/s
95th percentile per-packet one-way delay: 7.104 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 255.90 Mbit/s
95th percentile per-packet one-way delay: 4.191 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 436.66 Mbit/s
95th percentile per-packet one-way delay: 4.014 ms
Loss rate: 0.27%

Run 6: Report of FillP — Data Link

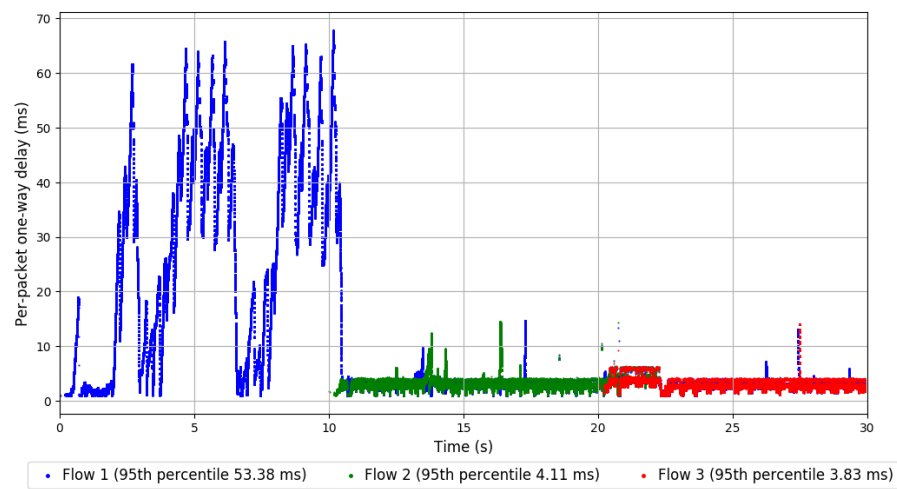
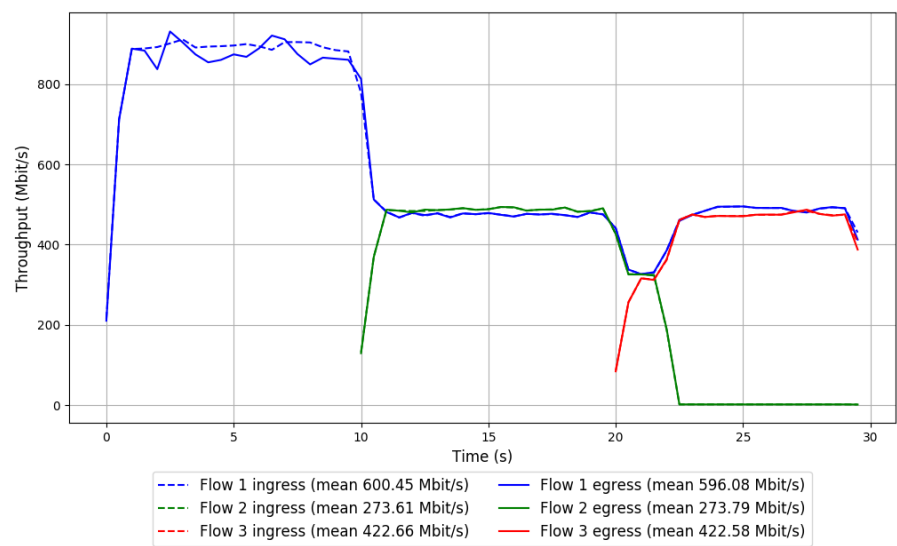


Run 7: Statistics of FillP

Start at: 2018-04-17 16:08:37
End at: 2018-04-17 16:09:07
Local clock offset: 0.317 ms
Remote clock offset: -6.842 ms

Below is generated by plot.py at 2018-04-18 00:01:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 917.83 Mbit/s
95th percentile per-packet one-way delay: 49.086 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 596.08 Mbit/s
95th percentile per-packet one-way delay: 53.383 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 273.79 Mbit/s
95th percentile per-packet one-way delay: 4.112 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 422.58 Mbit/s
95th percentile per-packet one-way delay: 3.831 ms
Loss rate: 0.25%

Run 7: Report of FillP — Data Link

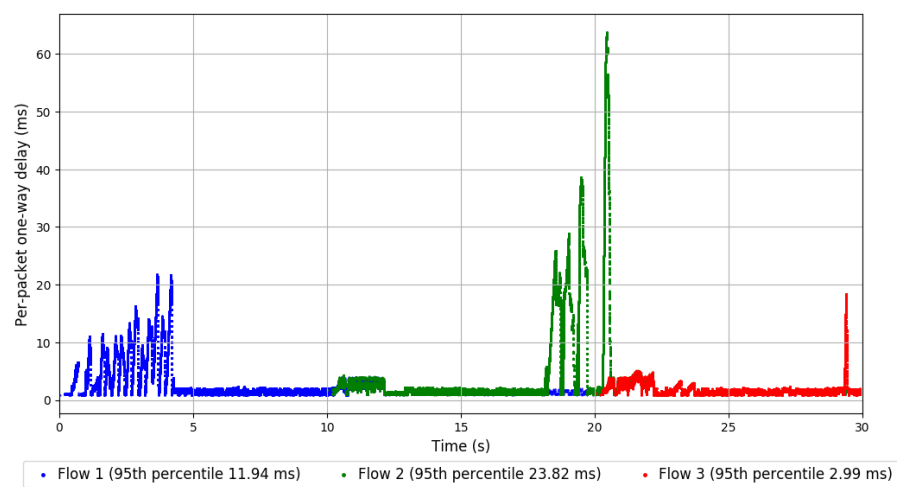
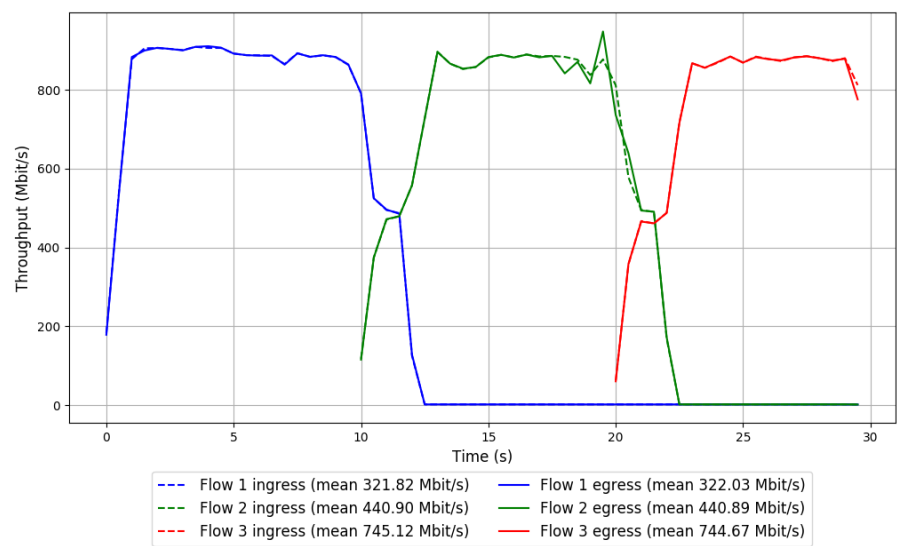


Run 8: Statistics of FillP

Start at: 2018-04-17 16:35:18
End at: 2018-04-17 16:35:48
Local clock offset: -0.07 ms
Remote clock offset: -6.485 ms

Below is generated by plot.py at 2018-04-18 00:01:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 861.09 Mbit/s
95th percentile per-packet one-way delay: 14.104 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 322.03 Mbit/s
95th percentile per-packet one-way delay: 11.941 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 440.89 Mbit/s
95th percentile per-packet one-way delay: 23.822 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 744.67 Mbit/s
95th percentile per-packet one-way delay: 2.988 ms
Loss rate: 0.26%

Run 8: Report of FillP — Data Link

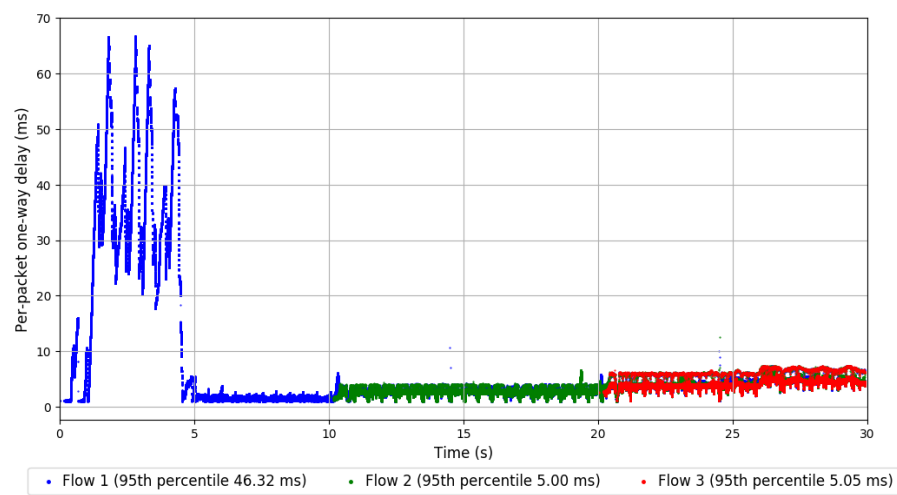
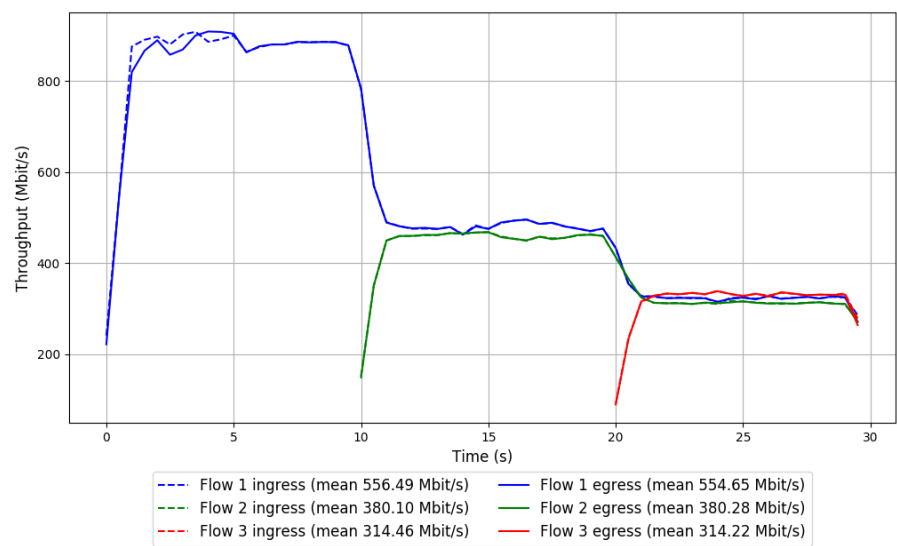


Run 9: Statistics of FillP

Start at: 2018-04-17 17:01:53
End at: 2018-04-17 17:02:23
Local clock offset: -0.068 ms
Remote clock offset: -6.415 ms

Below is generated by plot.py at 2018-04-18 00:12:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 911.61 Mbit/s
95th percentile per-packet one-way delay: 36.156 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 554.65 Mbit/s
95th percentile per-packet one-way delay: 46.321 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 380.28 Mbit/s
95th percentile per-packet one-way delay: 4.996 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 314.22 Mbit/s
95th percentile per-packet one-way delay: 5.055 ms
Loss rate: 0.31%

Run 9: Report of FillP — Data Link

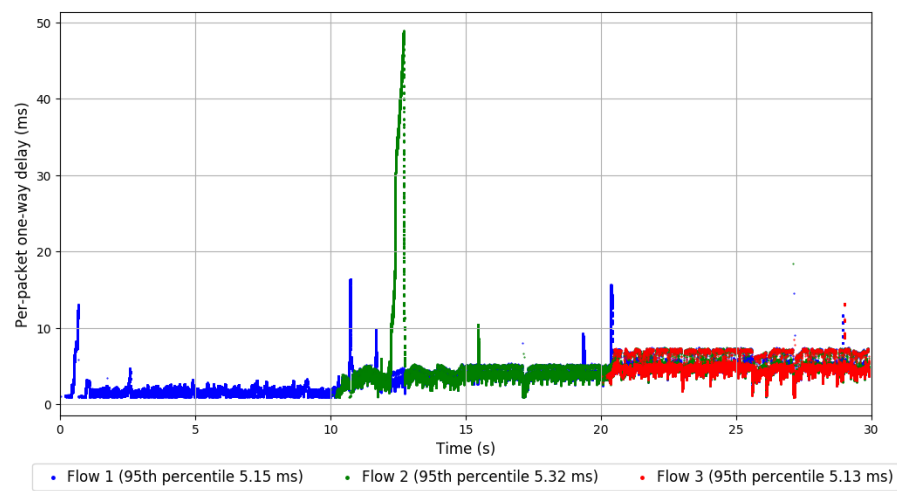
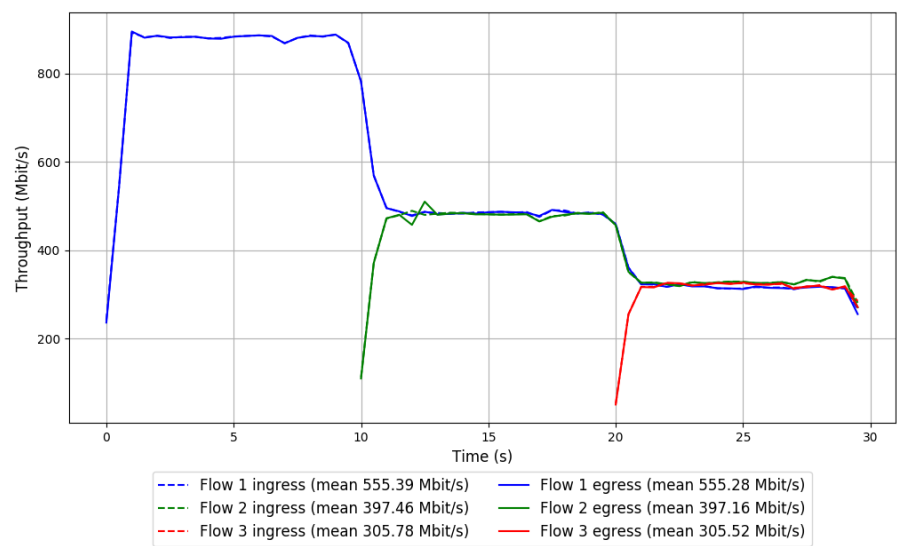


Run 10: Statistics of FillP

Start at: 2018-04-17 17:28:30
End at: 2018-04-17 17:29:00
Local clock offset: -0.086 ms
Remote clock offset: -6.246 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 920.10 Mbit/s
95th percentile per-packet one-way delay: 5.184 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 555.28 Mbit/s
95th percentile per-packet one-way delay: 5.146 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 397.16 Mbit/s
95th percentile per-packet one-way delay: 5.317 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 305.52 Mbit/s
95th percentile per-packet one-way delay: 5.135 ms
Loss rate: 0.32%

Run 10: Report of FillP — Data Link

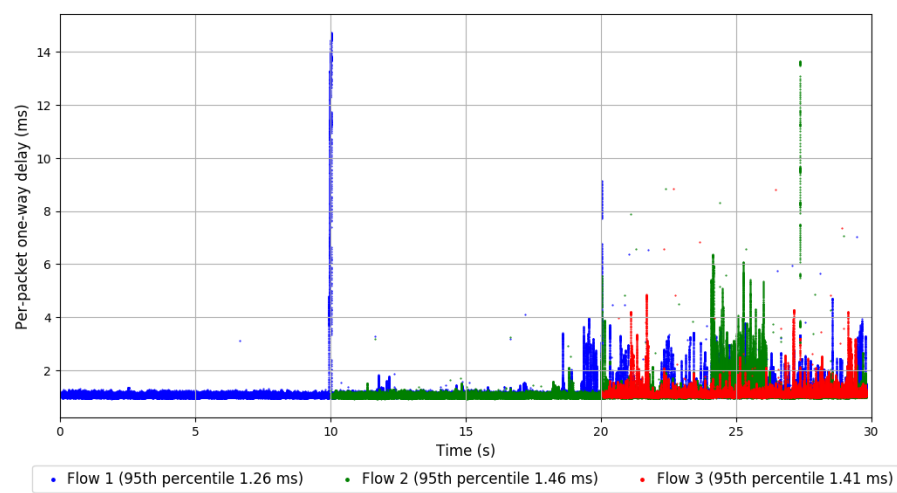
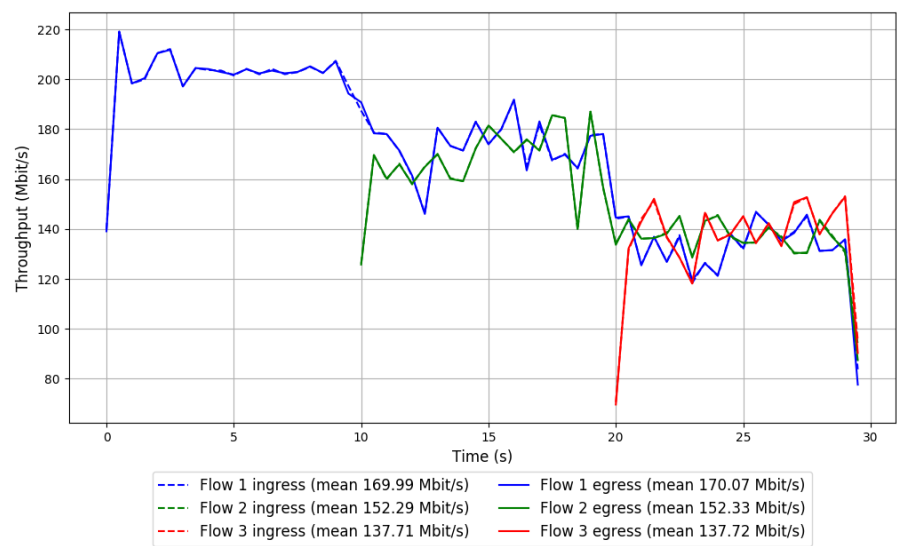


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 13:26:08
End at: 2018-04-17 13:26:38
Local clock offset: 0.242 ms
Remote clock offset: -5.053 ms

# Below is generated by plot.py at 2018-04-18 00:13:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 316.28 Mbit/s
95th percentile per-packet one-way delay: 1.353 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 170.07 Mbit/s
95th percentile per-packet one-way delay: 1.265 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 152.33 Mbit/s
95th percentile per-packet one-way delay: 1.457 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 137.72 Mbit/s
95th percentile per-packet one-way delay: 1.411 ms
Loss rate: 0.19%
```

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

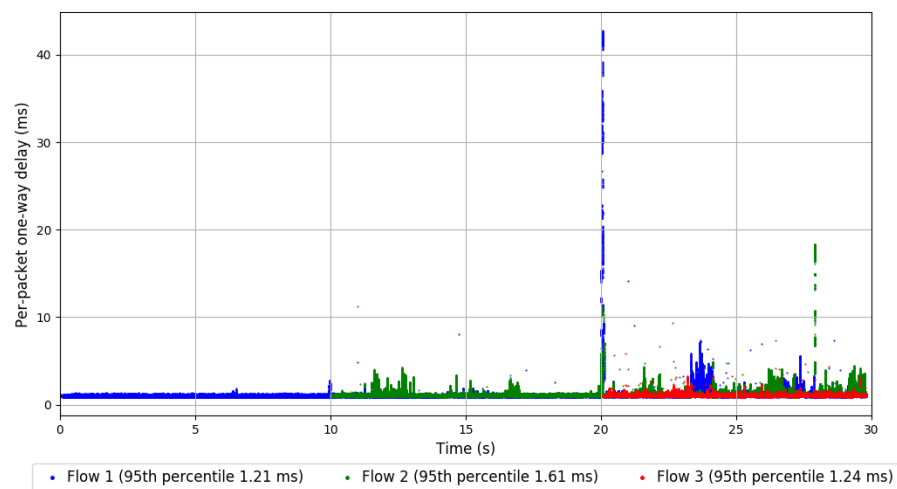
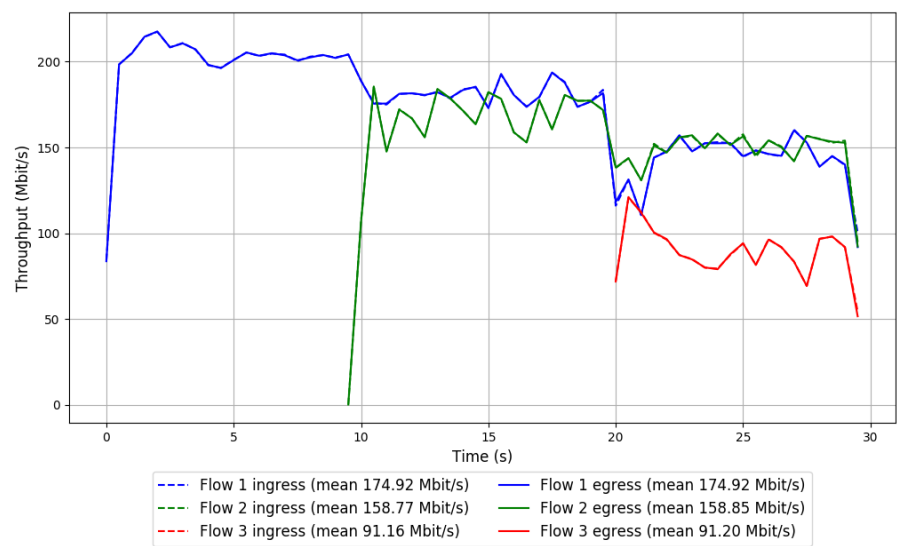


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 13:52:49
End at: 2018-04-17 13:53:19
Local clock offset: 0.115 ms
Remote clock offset: -4.922 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.25 Mbit/s
95th percentile per-packet one-way delay: 1.319 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 174.92 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 158.85 Mbit/s
95th percentile per-packet one-way delay: 1.613 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.16%

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

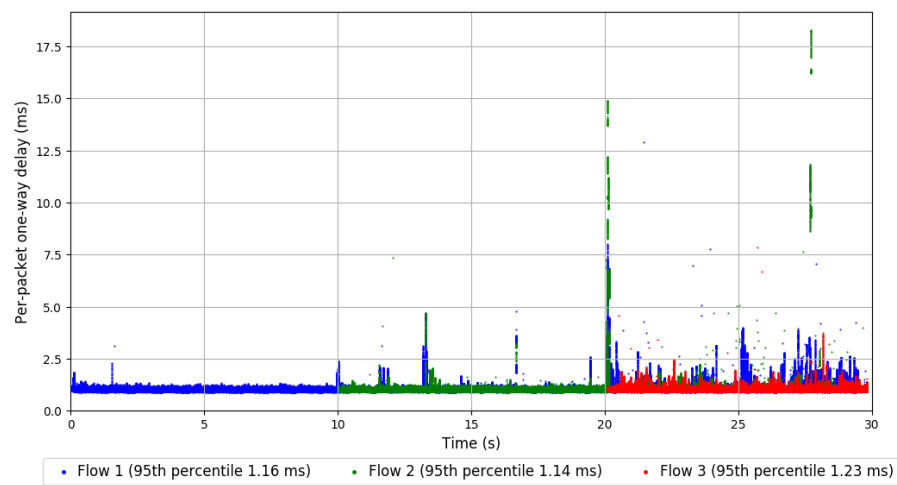
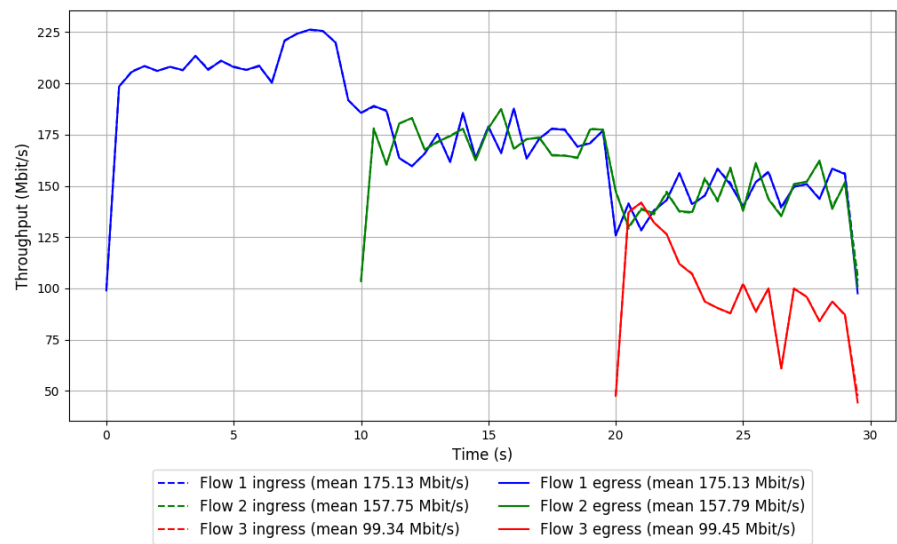


Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 14:19:23
End at: 2018-04-17 14:19:53
Local clock offset: 0.424 ms
Remote clock offset: -5.231 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 312.33 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 175.13 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 157.79 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 99.45 Mbit/s
95th percentile per-packet one-way delay: 1.227 ms
Loss rate: 0.17%

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

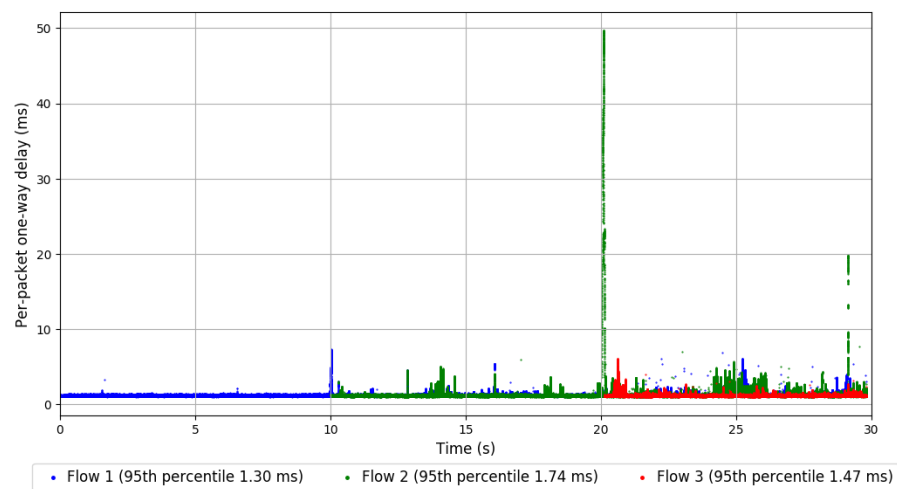
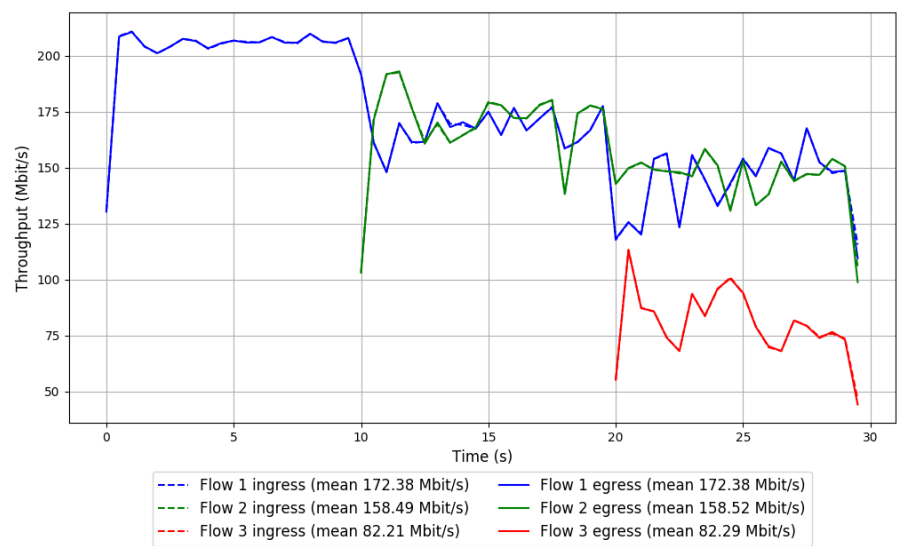


Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 14:45:57
End at: 2018-04-17 14:46:27
Local clock offset: 0.212 ms
Remote clock offset: -5.453 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.44 Mbit/s
95th percentile per-packet one-way delay: 1.391 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 172.38 Mbit/s
95th percentile per-packet one-way delay: 1.303 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 158.52 Mbit/s
95th percentile per-packet one-way delay: 1.744 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 82.29 Mbit/s
95th percentile per-packet one-way delay: 1.466 ms
Loss rate: 0.18%

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

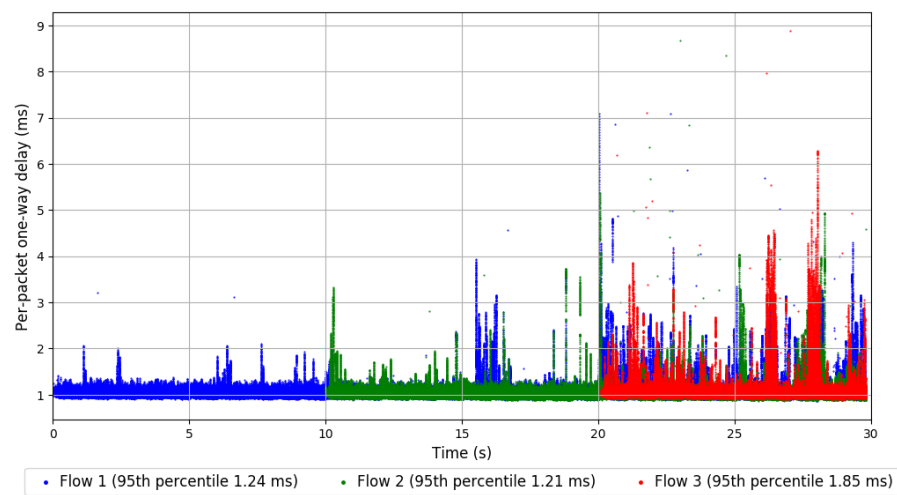
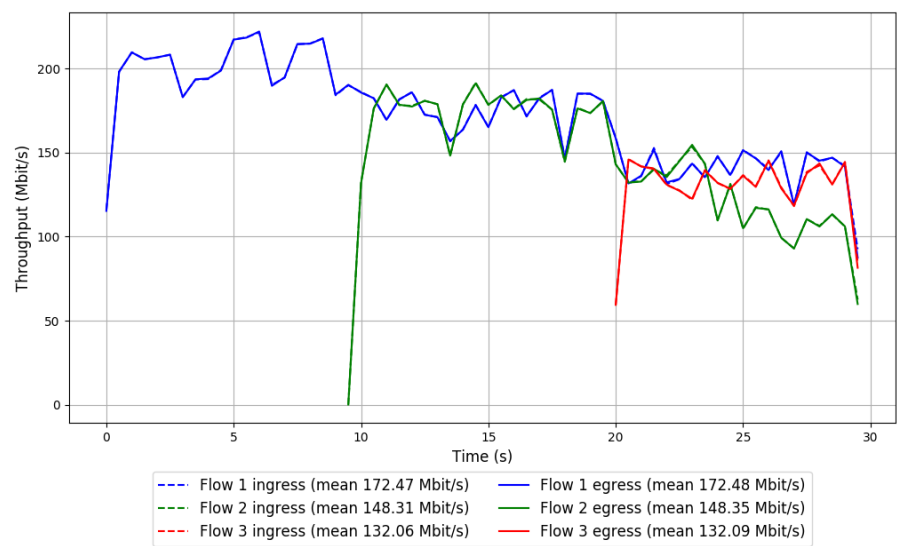


Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 15:12:22
End at: 2018-04-17 15:12:52
Local clock offset: 0.05 ms
Remote clock offset: -5.564 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 314.06 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 172.48 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 148.35 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 132.09 Mbit/s
95th percentile per-packet one-way delay: 1.855 ms
Loss rate: 0.19%

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

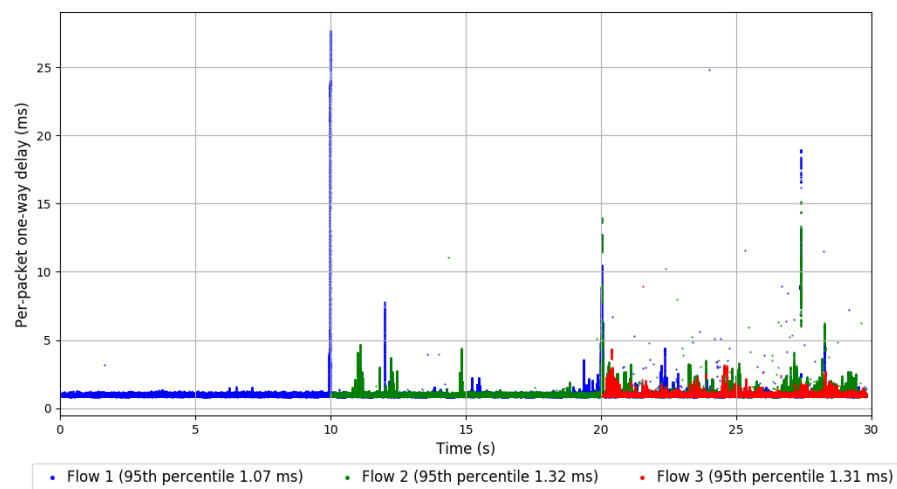
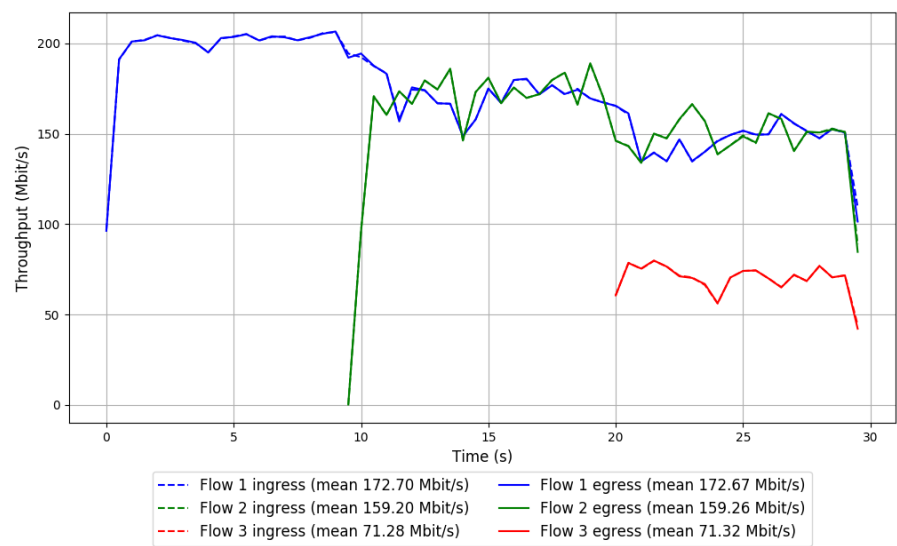


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 15:39:04
End at: 2018-04-17 15:39:34
Local clock offset: 0.064 ms
Remote clock offset: -6.563 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 301.84 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 172.67 Mbit/s
95th percentile per-packet one-way delay: 1.070 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 159.26 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 71.32 Mbit/s
95th percentile per-packet one-way delay: 1.306 ms
Loss rate: 0.14%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 16:05:45

End at: 2018-04-17 16:06:15

Local clock offset: 0.211 ms

Remote clock offset: -6.88 ms

Below is generated by plot.py at 2018-04-18 00:13:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 311.44 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.08%

-- Flow 1:

Average throughput: 173.00 Mbit/s

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

Loss rate: 0.06%

-- Flow 2:

Average throughput: 154.72 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.07%

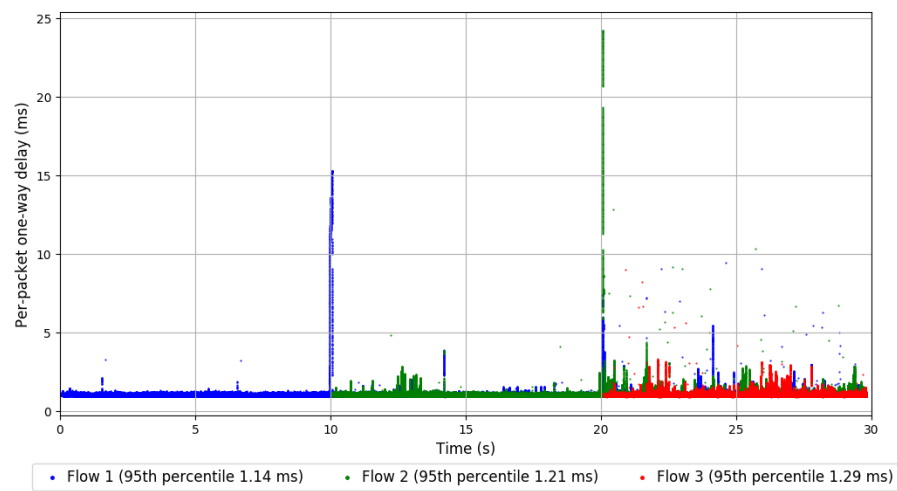
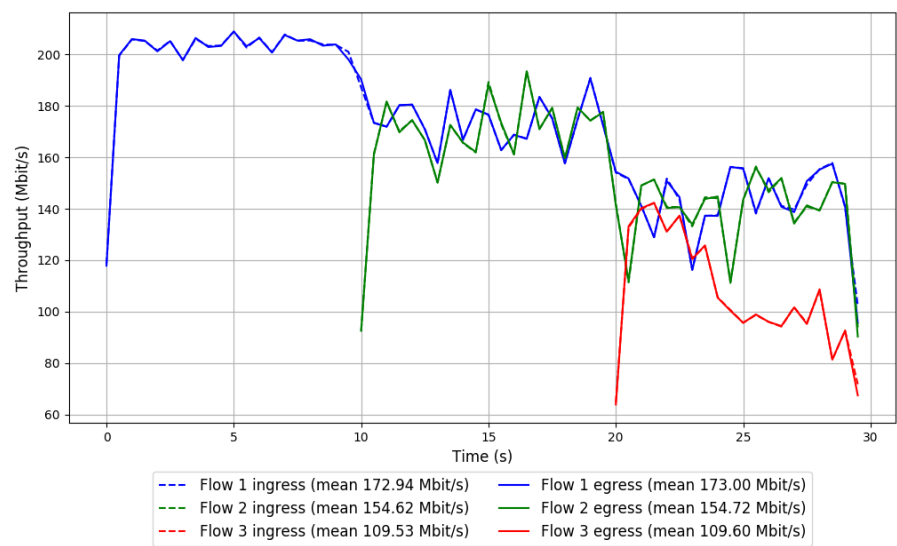
-- Flow 3:

Average throughput: 109.60 Mbit/s

95th percentile per-packet one-way delay: 1.291 ms

Loss rate: 0.20%

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

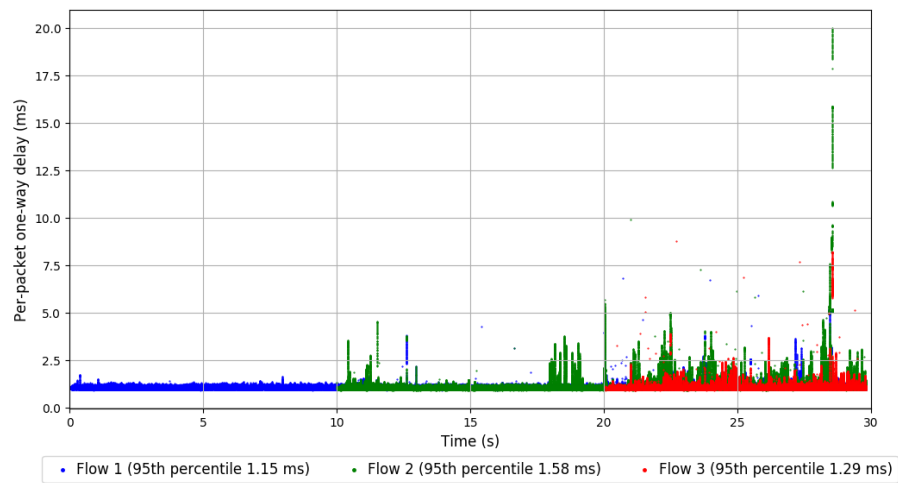
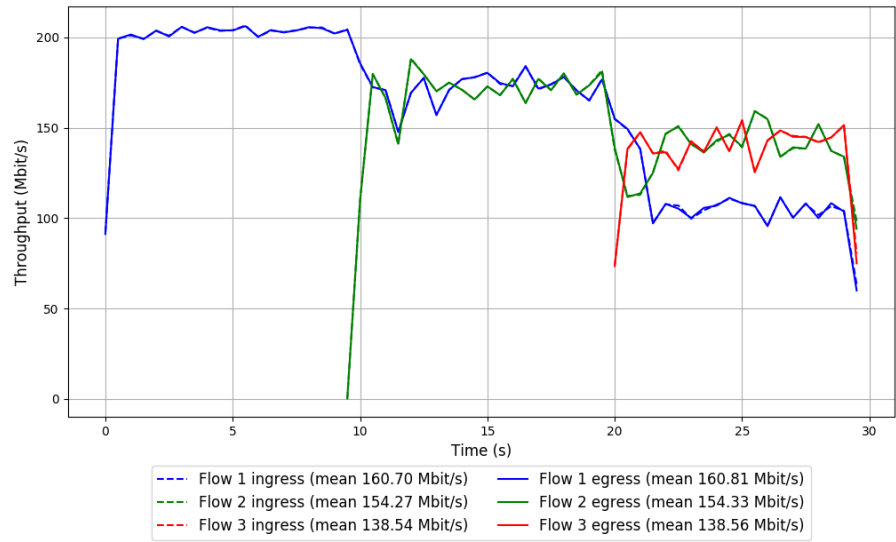


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 16:32:26
End at: 2018-04-17 16:32:56
Local clock offset: -0.137 ms
Remote clock offset: -6.649 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 308.62 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 160.81 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 154.33 Mbit/s
95th percentile per-packet one-way delay: 1.577 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 138.56 Mbit/s
95th percentile per-packet one-way delay: 1.290 ms
Loss rate: 0.21%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 16:59:00

End at: 2018-04-17 16:59:30

Local clock offset: -0.045 ms

Remote clock offset: -6.45 ms

Below is generated by plot.py at 2018-04-18 00:13:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 313.68 Mbit/s

95th percentile per-packet one-way delay: 1.368 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 171.20 Mbit/s

95th percentile per-packet one-way delay: 1.413 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 154.91 Mbit/s

95th percentile per-packet one-way delay: 1.293 ms

Loss rate: 0.09%

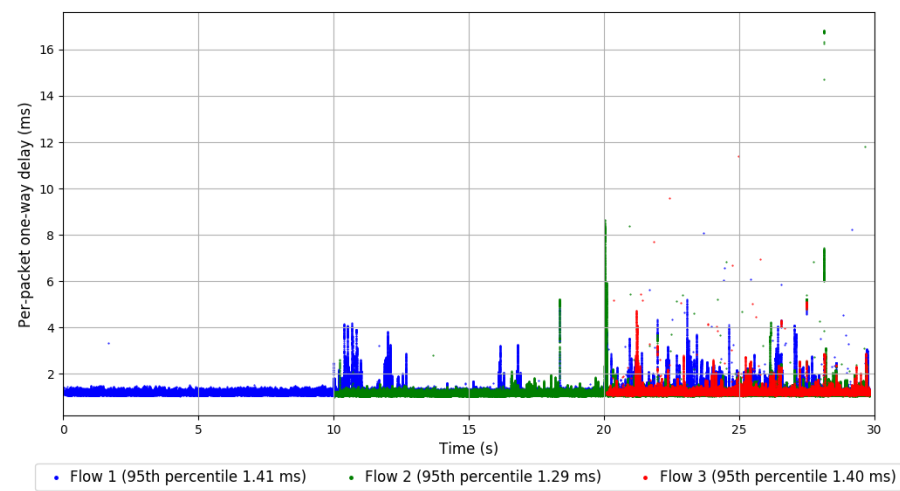
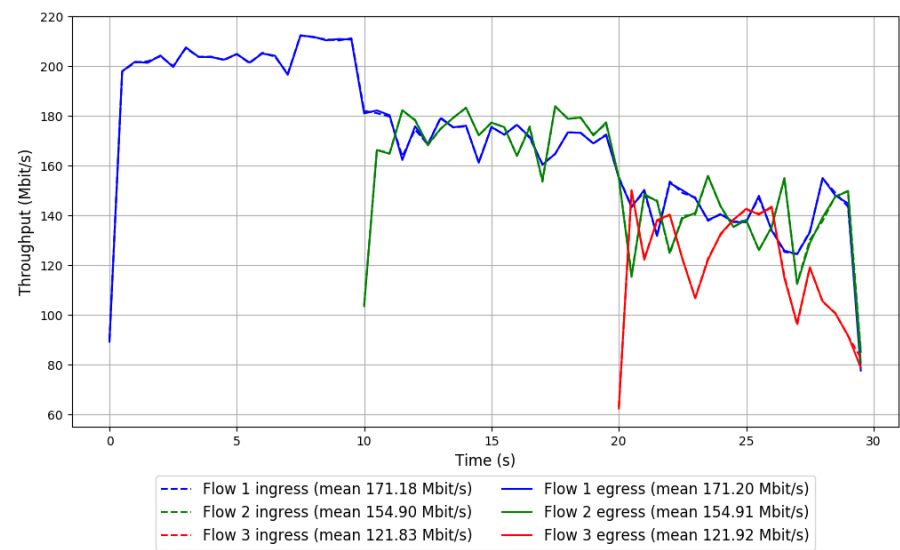
-- Flow 3:

Average throughput: 121.92 Mbit/s

95th percentile per-packet one-way delay: 1.403 ms

Loss rate: 0.17%

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

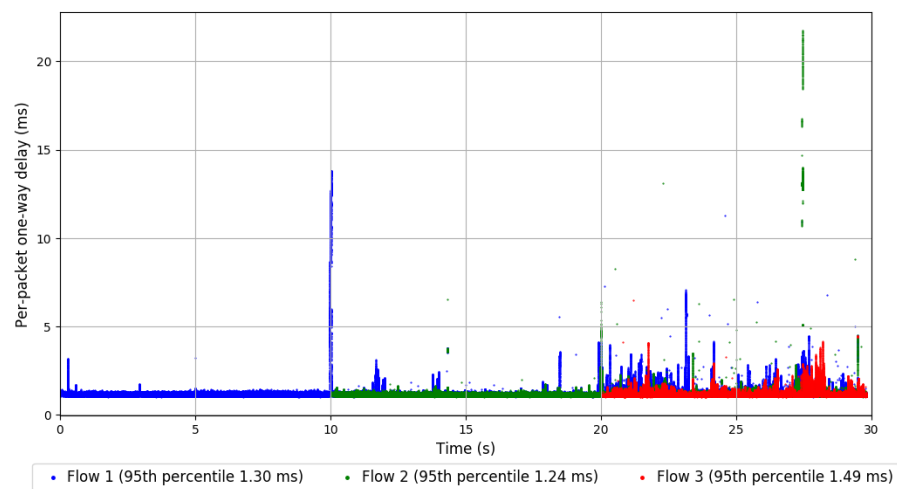
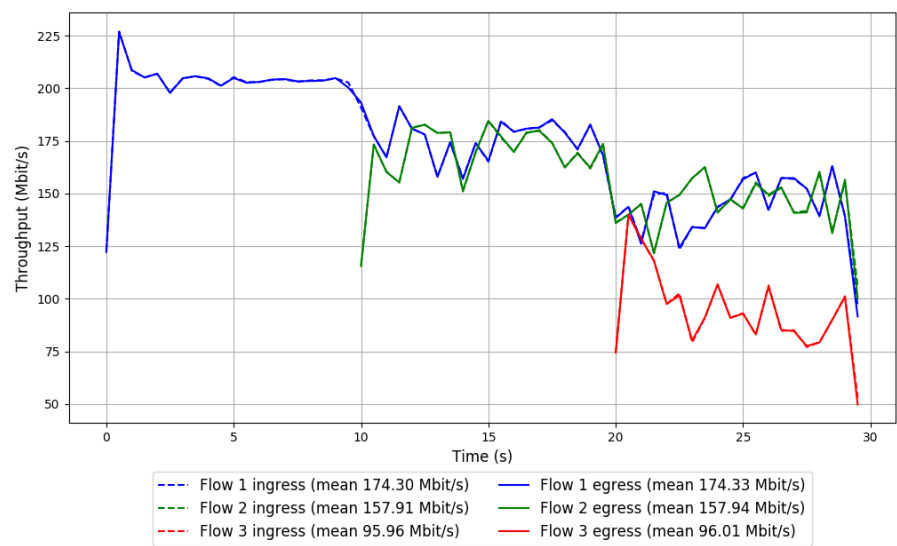


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 17:25:37
End at: 2018-04-17 17:26:07
Local clock offset: -0.014 ms
Remote clock offset: -6.284 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.66 Mbit/s
95th percentile per-packet one-way delay: 1.291 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 174.33 Mbit/s
95th percentile per-packet one-way delay: 1.300 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 157.94 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 1.490 ms
Loss rate: 0.19%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 13:16:41

End at: 2018-04-17 13:17:11

Local clock offset: 0.333 ms

Remote clock offset: -5.3 ms

Below is generated by plot.py at 2018-04-18 00:13:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 280.50 Mbit/s

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

Loss rate: 0.05%

-- Flow 1:

Average throughput: 204.13 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.13%

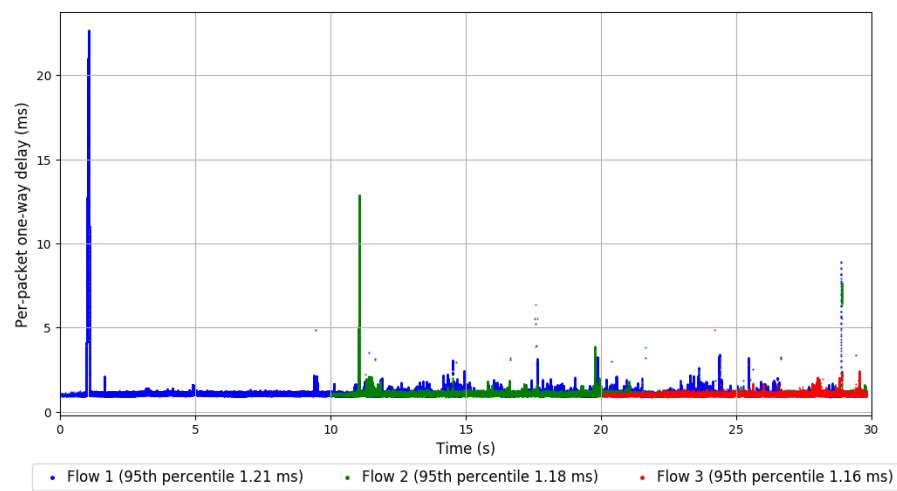
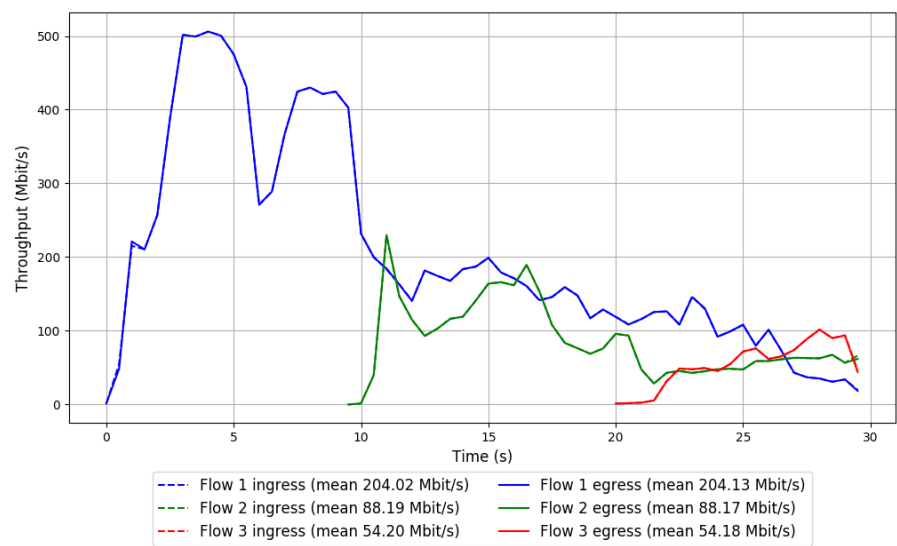
-- Flow 3:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.27%

Run 1: Report of PCC-Vivace — Data Link

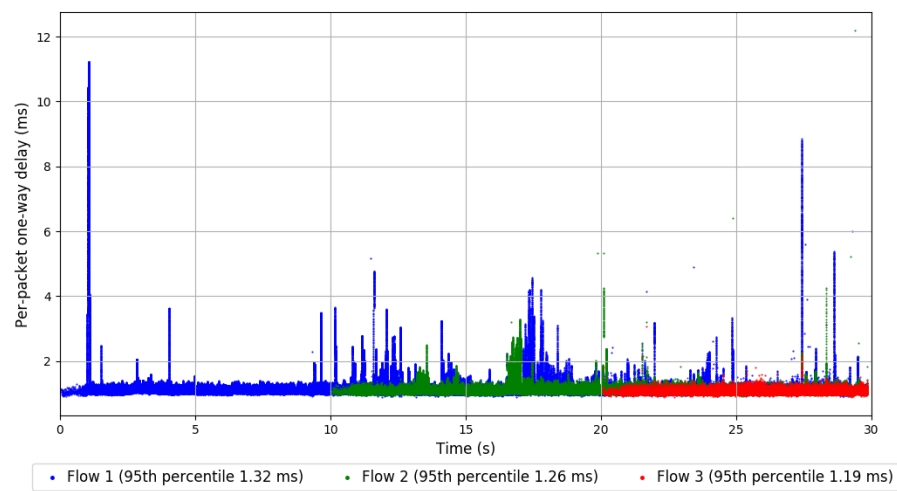
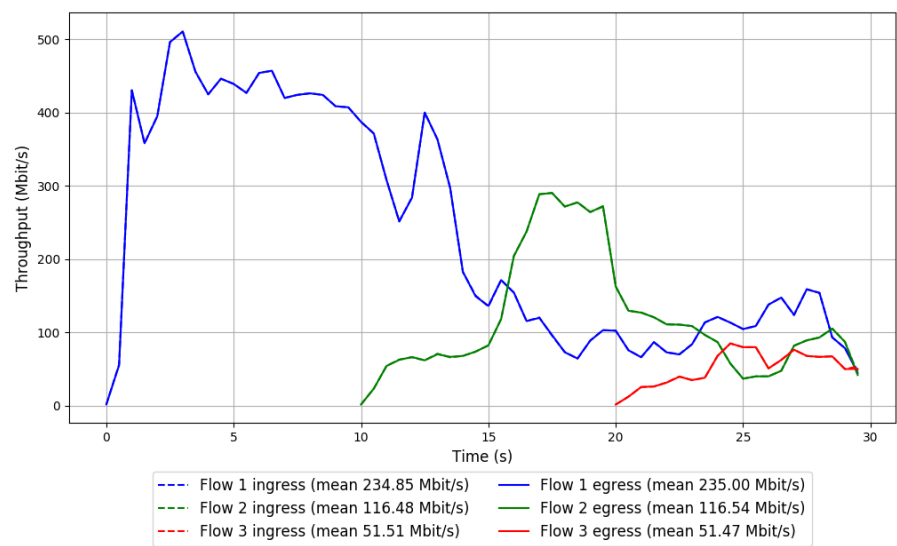


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 13:43:21
End at: 2018-04-17 13:43:51
Local clock offset: 0.157 ms
Remote clock offset: -5.071 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.33 Mbit/s
95th percentile per-packet one-way delay: 1.293 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 235.00 Mbit/s
95th percentile per-packet one-way delay: 1.322 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 116.54 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 51.47 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.33%

Run 2: Report of PCC-Vivace — Data Link

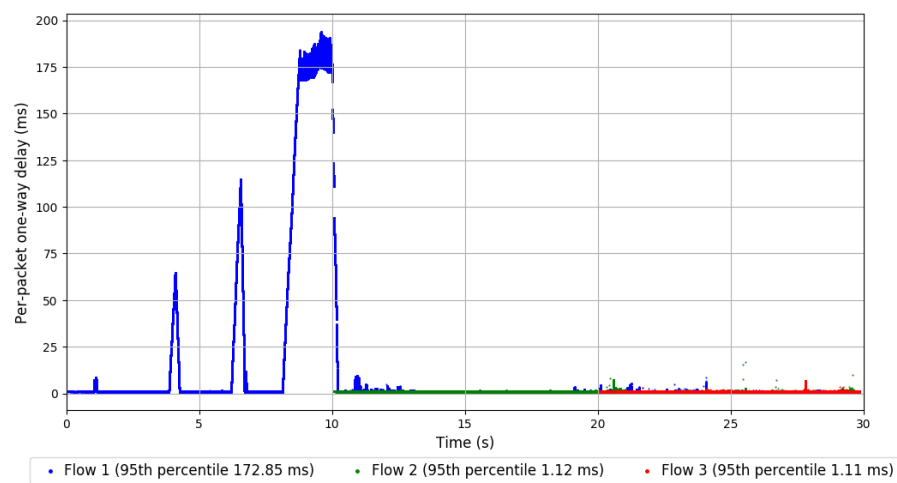
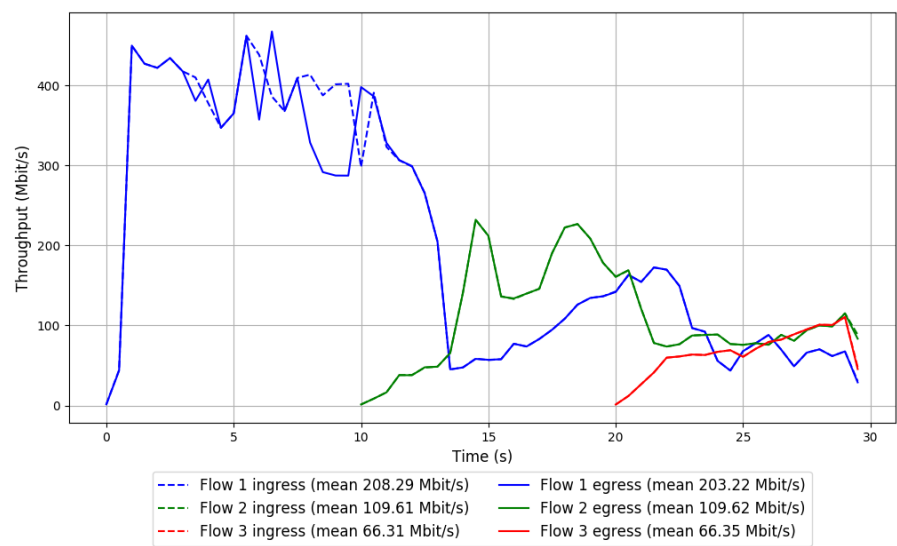


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 14:09:54
End at: 2018-04-17 14:10:24
Local clock offset: 0.337 ms
Remote clock offset: -5.093 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.80 Mbit/s
95th percentile per-packet one-way delay: 119.511 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 203.22 Mbit/s
95th percentile per-packet one-way delay: 172.849 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 109.62 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 66.35 Mbit/s
95th percentile per-packet one-way delay: 1.113 ms
Loss rate: 0.20%

Run 3: Report of PCC-Vivace — Data Link

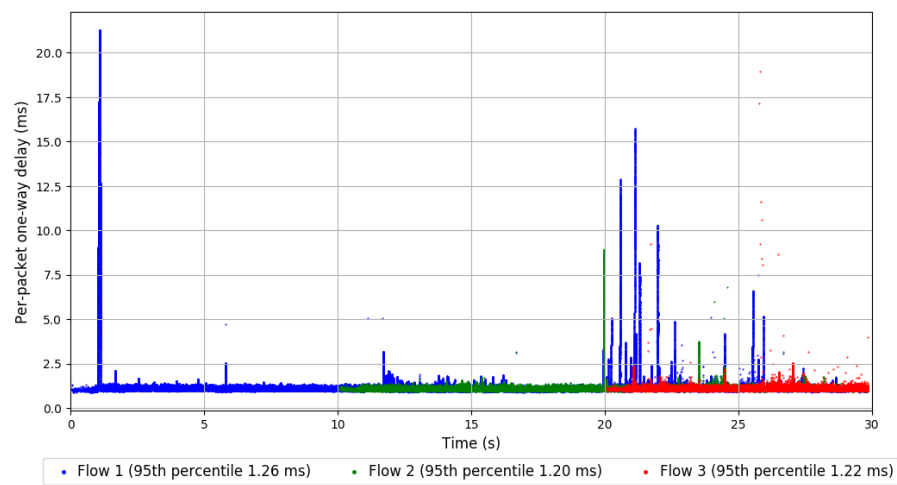
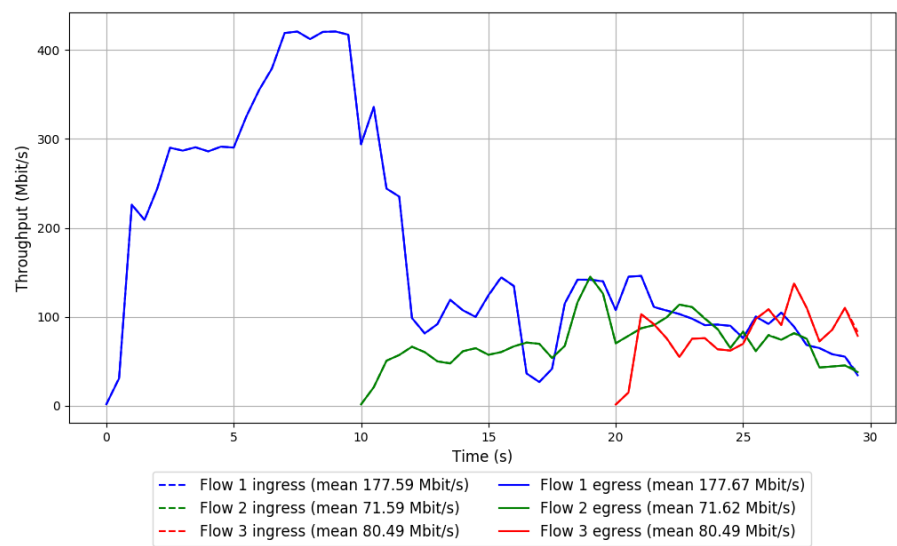


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 14:36:34
End at: 2018-04-17 14:37:04
Local clock offset: 0.298 ms
Remote clock offset: -5.247 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 251.65 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 177.67 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 71.62 Mbit/s
95th percentile per-packet one-way delay: 1.201 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 80.49 Mbit/s
95th percentile per-packet one-way delay: 1.220 ms
Loss rate: 0.29%

Run 4: Report of PCC-Vivace — Data Link

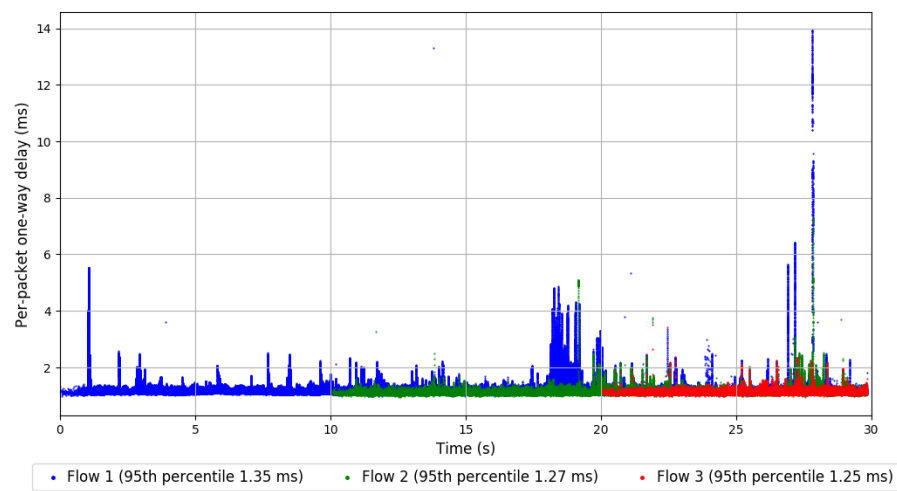
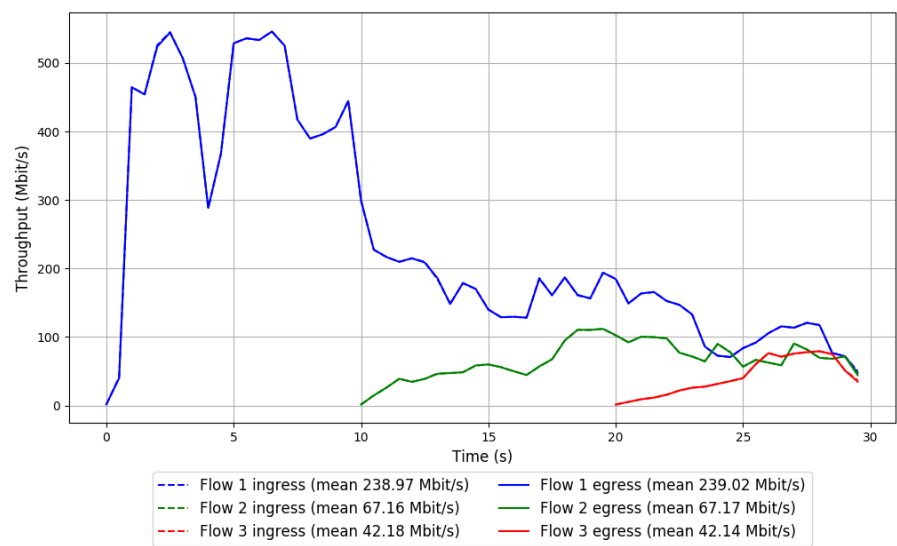


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 15:03:05
End at: 2018-04-17 15:03:35
Local clock offset: 0.176 ms
Remote clock offset: -5.574 ms

Below is generated by plot.py at 2018-04-18 00:13:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.42 Mbit/s
95th percentile per-packet one-way delay: 1.323 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 239.02 Mbit/s
95th percentile per-packet one-way delay: 1.346 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 67.17 Mbit/s
95th percentile per-packet one-way delay: 1.266 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 42.14 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.24%

Run 5: Report of PCC-Vivace — Data Link

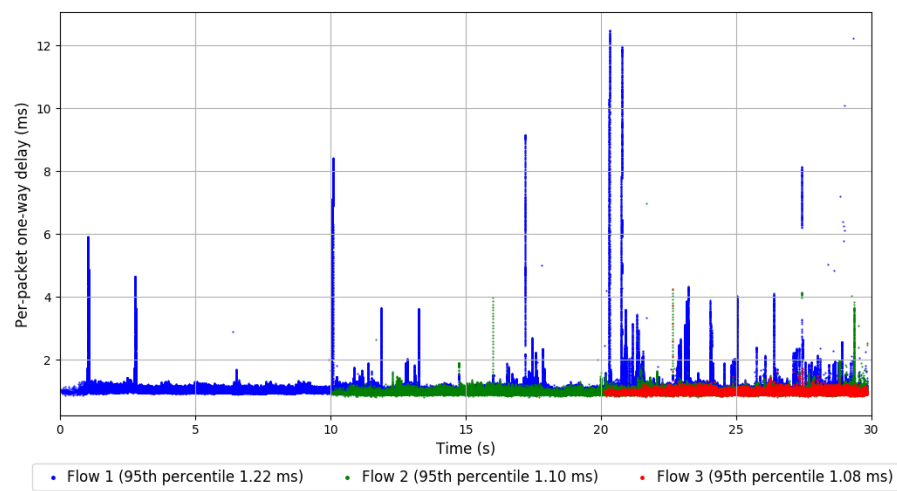
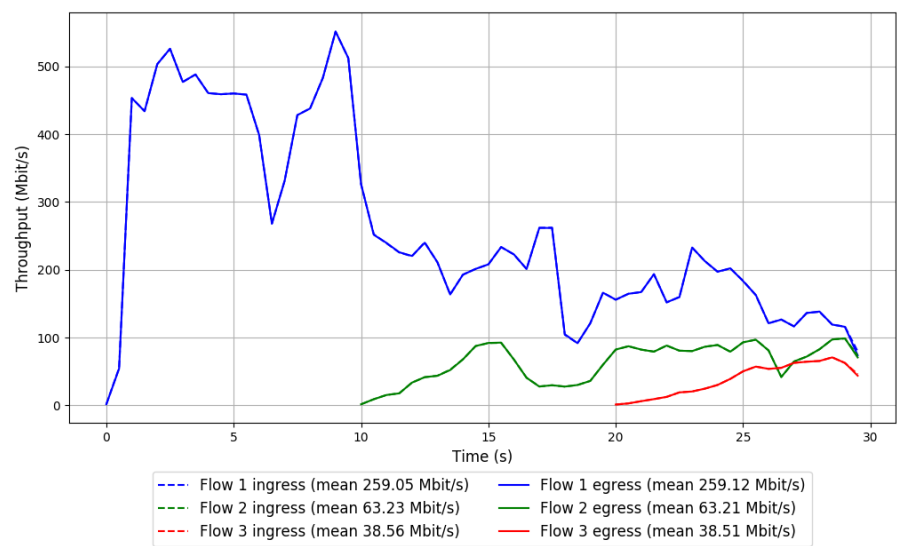


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 15:29:32
End at: 2018-04-17 15:30:02
Local clock offset: 0.114 ms
Remote clock offset: -6.385 ms

Below is generated by plot.py at 2018-04-18 00:14:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.64 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 259.12 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 63.21 Mbit/s
95th percentile per-packet one-way delay: 1.104 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 1.076 ms
Loss rate: 0.32%

Run 6: Report of PCC-Vivace — Data Link

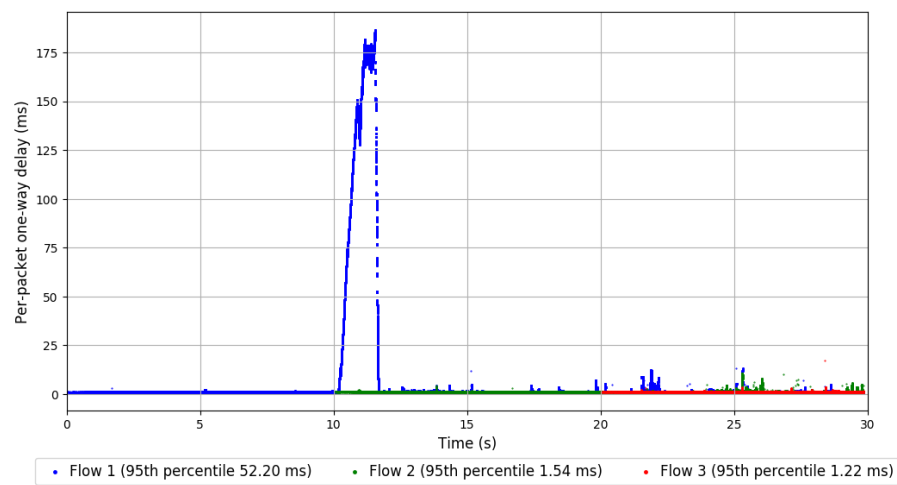
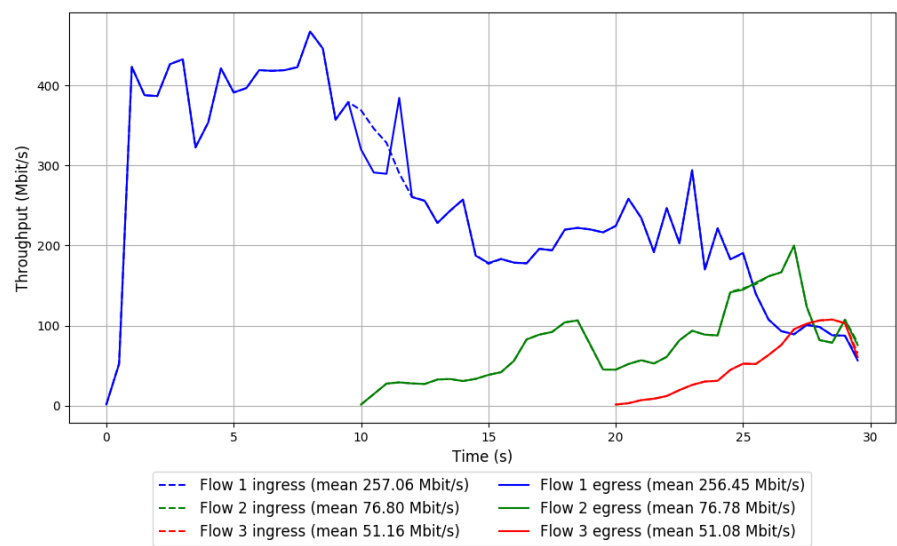


Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 15:56:13
End at: 2018-04-17 15:56:43
Local clock offset: 0.235 ms
Remote clock offset: -6.829 ms

Below is generated by plot.py at 2018-04-18 00:14:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.18 Mbit/s
95th percentile per-packet one-way delay: 8.215 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 256.45 Mbit/s
95th percentile per-packet one-way delay: 52.199 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 1.540 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 51.08 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.48%

Run 7: Report of PCC-Vivace — Data Link

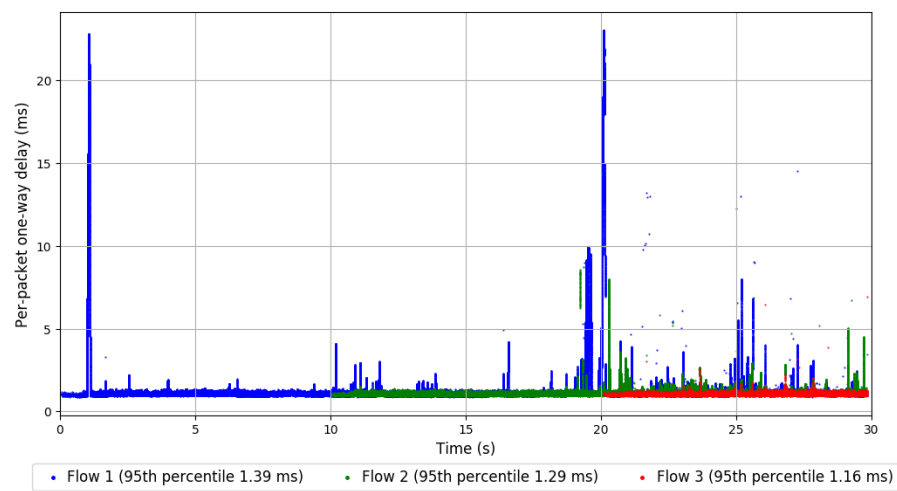
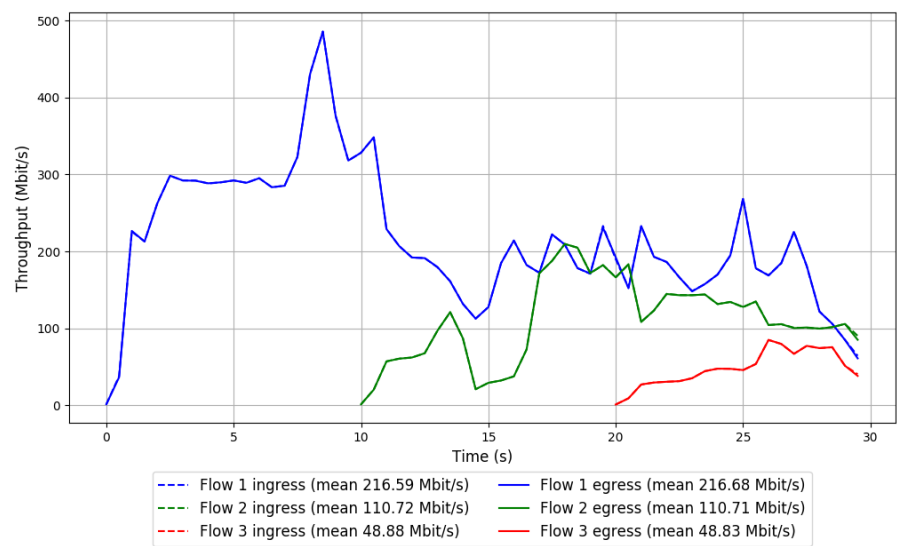


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 16:22:58
End at: 2018-04-17 16:23:28
Local clock offset: 0.027 ms
Remote clock offset: -6.816 ms

Below is generated by plot.py at 2018-04-18 00:14:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.12 Mbit/s
95th percentile per-packet one-way delay: 1.321 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 216.68 Mbit/s
95th percentile per-packet one-way delay: 1.386 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 110.71 Mbit/s
95th percentile per-packet one-way delay: 1.294 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 48.83 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.24%

Run 8: Report of PCC-Vivace — Data Link

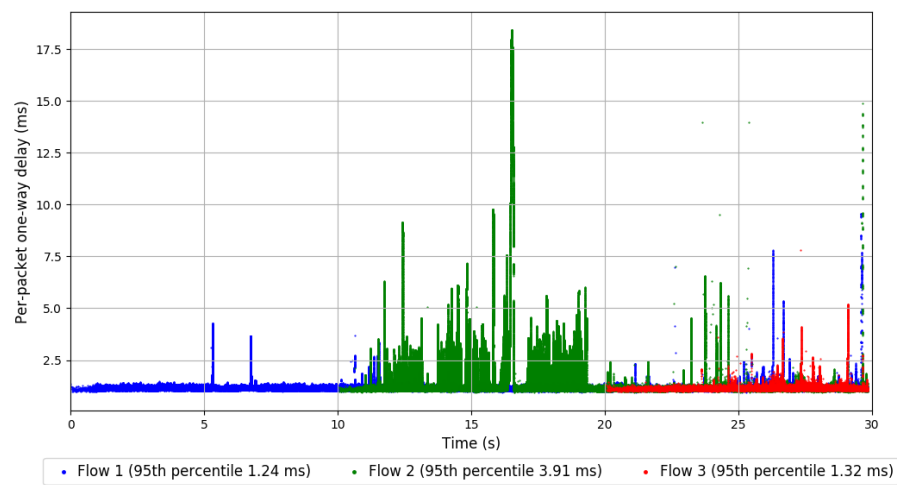
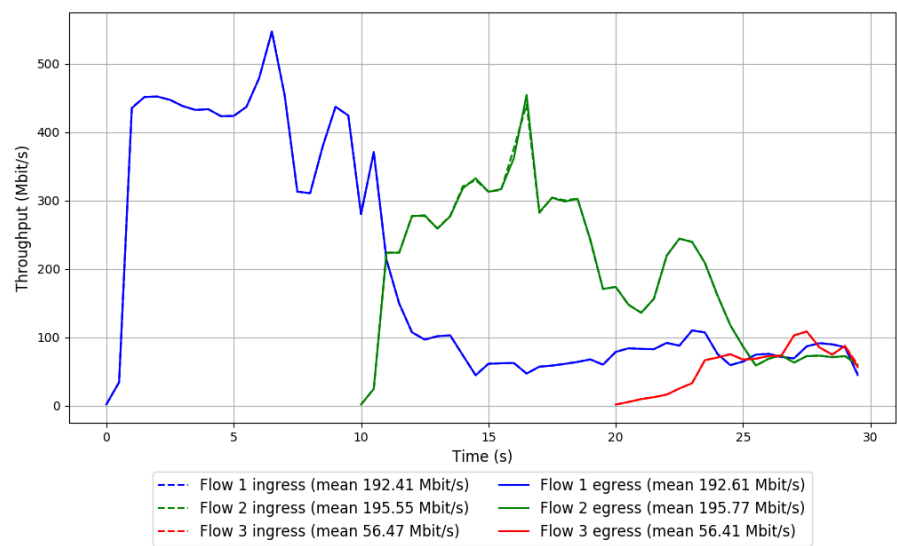


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 16:49:32
End at: 2018-04-17 16:50:02
Local clock offset: -0.083 ms
Remote clock offset: -6.527 ms

Below is generated by plot.py at 2018-04-18 00:15:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.10 Mbit/s
95th percentile per-packet one-way delay: 2.594 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 192.61 Mbit/s
95th percentile per-packet one-way delay: 1.242 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 195.77 Mbit/s
95th percentile per-packet one-way delay: 3.907 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 56.41 Mbit/s
95th percentile per-packet one-way delay: 1.316 ms
Loss rate: 0.32%

Run 9: Report of PCC-Vivace — Data Link

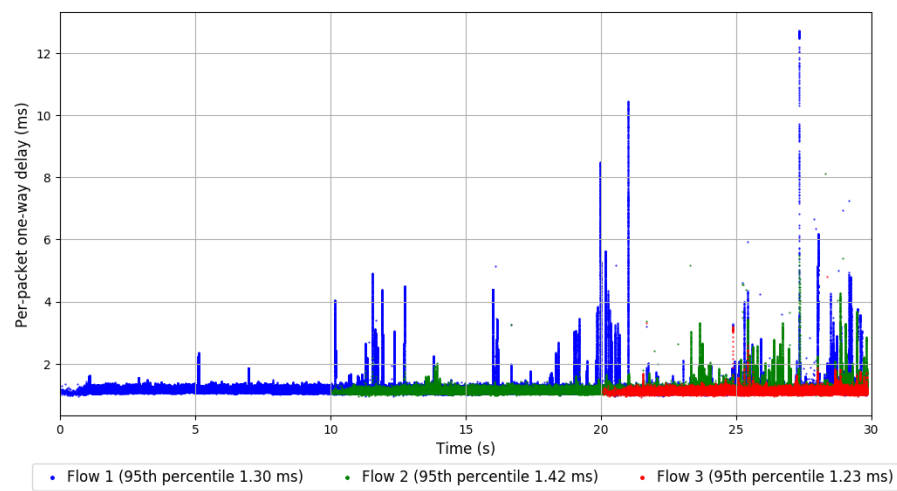
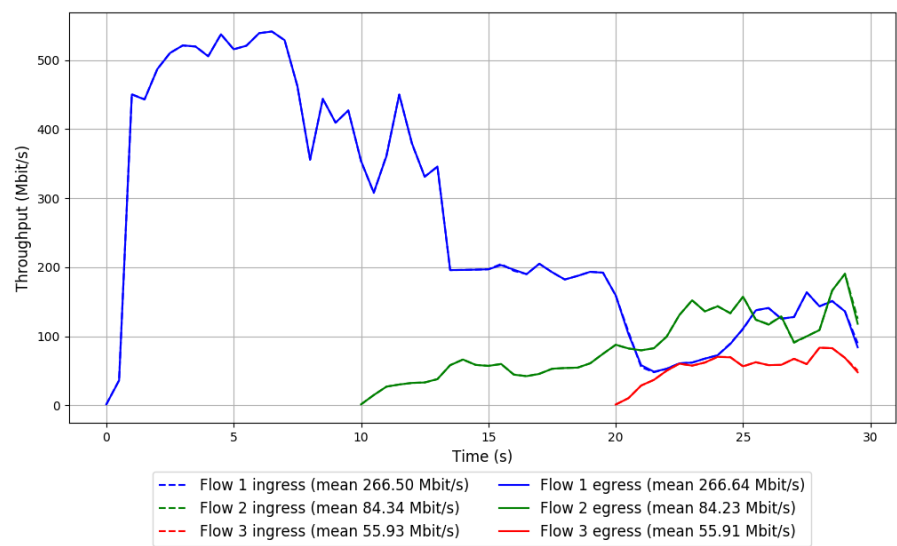


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 17:16:09
End at: 2018-04-17 17:16:39
Local clock offset: -0.051 ms
Remote clock offset: -6.358 ms

Below is generated by plot.py at 2018-04-18 00:15:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.86 Mbit/s
95th percentile per-packet one-way delay: 1.306 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 266.64 Mbit/s
95th percentile per-packet one-way delay: 1.297 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 1.418 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 1.226 ms
Loss rate: 0.24%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 13:06:01

End at: 2018-04-17 13:06:31

Local clock offset: 0.402 ms

Remote clock offset: -5.541 ms

Run 1: Report of PCC-Expr — Data Link

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Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 13:32:37

End at: 2018-04-17 13:33:07

Local clock offset: 0.224 ms

Remote clock offset: -5.037 ms

Run 2: Report of PCC-Expr — Data Link

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Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 13:59:17

End at: 2018-04-17 13:59:47

Local clock offset: 0.127 ms

Remote clock offset: -4.942 ms

Run 3: Report of PCC-Expr — Data Link

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Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 14:25:52

End at: 2018-04-17 14:26:22

Local clock offset: 0.351 ms

Remote clock offset: -5.299 ms

Run 4: Report of PCC-Expr — Data Link

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Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 14:52:26

End at: 2018-04-17 14:52:56

Local clock offset: 0.184 ms

Remote clock offset: -5.499 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 15:18:56

End at: 2018-04-17 15:19:26

Local clock offset: 0.033 ms

Remote clock offset: -5.975 ms

Run 6: Report of PCC-Expr — Data Link

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Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 15:45:32

End at: 2018-04-17 15:46:02

Local clock offset: 0.116 ms

Remote clock offset: -6.658 ms

Run 7: Report of PCC-Expr — Data Link

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Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 16:12:15

End at: 2018-04-17 16:12:45

Local clock offset: 0.239 ms

Remote clock offset: -6.925 ms

Run 8: Report of PCC-Expr — Data Link

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Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 16:38:54

End at: 2018-04-17 16:39:24

Local clock offset: -0.184 ms

Remote clock offset: -6.579 ms

Run 9: Report of PCC-Expr — Data Link

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Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 17:05:30

End at: 2018-04-17 17:06:00

Local clock offset: -0.047 ms

Remote clock offset: -6.343 ms

Run 10: Report of PCC-Expr — Data Link

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Figure is missing