

## Pantheon Report

Generated at 2018-04-24 15:21:59 (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 1 flow.

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

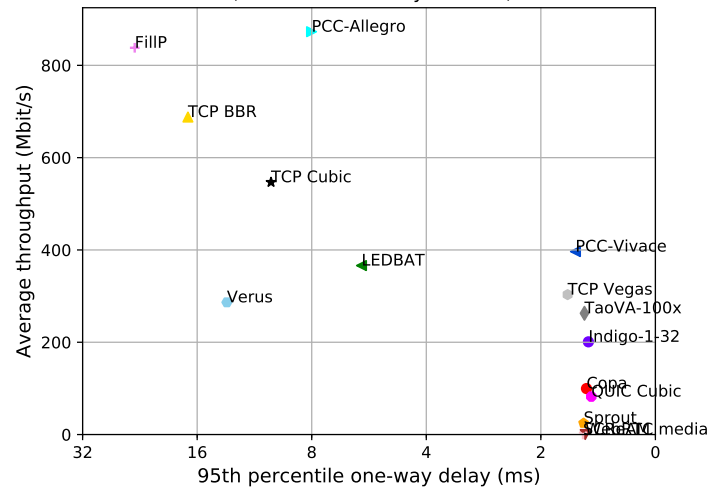
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

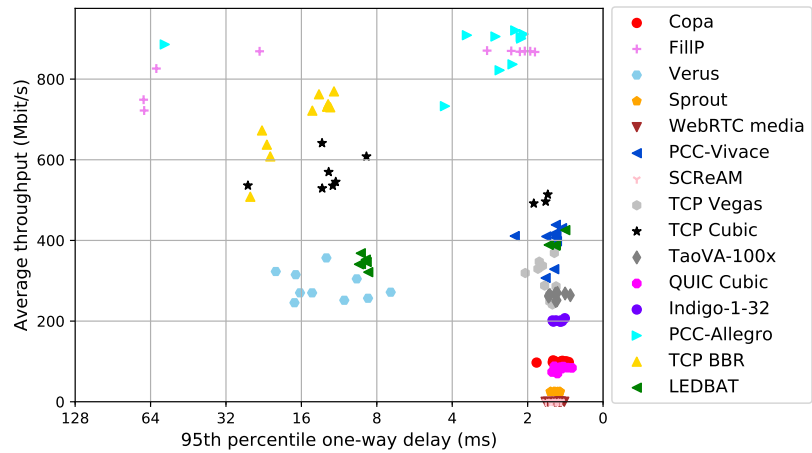
Git summary:

```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

test from Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from Stanford Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme



| scheme       | # runs | mean avg tput (Mbit/s)<br>flow 1 | mean 95th-%ile delay (ms)<br>flow 1 | mean loss rate (%)<br>flow 1 |
|--------------|--------|----------------------------------|-------------------------------------|------------------------------|
| TCP BBR      | 10     | 688.02                           | 16.92                               | 0.09                         |
| TCP Cubic    | 10     | 546.72                           | 10.23                               | 0.07                         |
| LEDBAT       | 10     | 366.17                           | 5.92                                | 0.08                         |
| PCC-Allegro  | 10     | 872.92                           | 8.01                                | 0.99                         |
| QUIC Cubic   | 10     | 82.27                            | 1.12                                | 0.07                         |
| SCReAM       | 10     | 0.22                             | 1.26                                | 0.13                         |
| WebRTC media | 10     | 0.05                             | 1.23                                | 0.01                         |
| Sprout       | 10     | 24.76                            | 1.25                                | 0.04                         |
| TaoVA-100x   | 10     | 262.74                           | 1.24                                | 0.07                         |
| TCP Vegas    | 10     | 303.22                           | 1.53                                | 0.06                         |
| Verus        | 10     | 286.52                           | 13.37                               | 0.06                         |
| Copa         | 10     | 99.65                            | 1.20                                | 0.06                         |
| FillP        | 10     | 838.05                           | 23.35                               | 0.85                         |
| Indigo-1-32  | 10     | 200.89                           | 1.17                                | 0.06                         |
| PCC-Vivace   | 10     | 396.49                           | 1.40                                | 0.41                         |
| PCC-Expr     | 0      | N/A                              | N/A                                 | N/A                          |

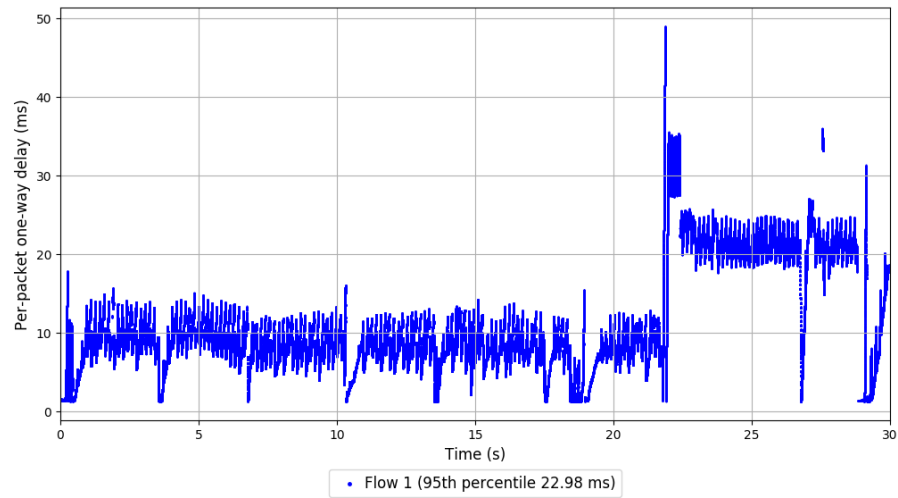
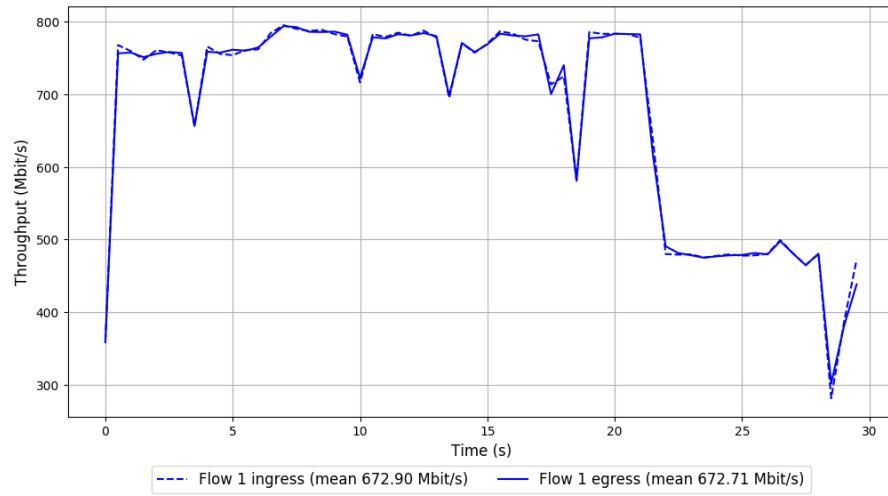
Run 1: Statistics of TCP BBR

Start at: 2018-04-24 05:05:50  
End at: 2018-04-24 05:06:20  
Local clock offset: -0.148 ms  
Remote clock offset: -5.426 ms

# Below is generated by plot.py at 2018-04-24 13:51:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 672.71 Mbit/s  
95th percentile per-packet one-way delay: 22.981 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 672.71 Mbit/s  
95th percentile per-packet one-way delay: 22.981 ms  
Loss rate: 0.10%



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

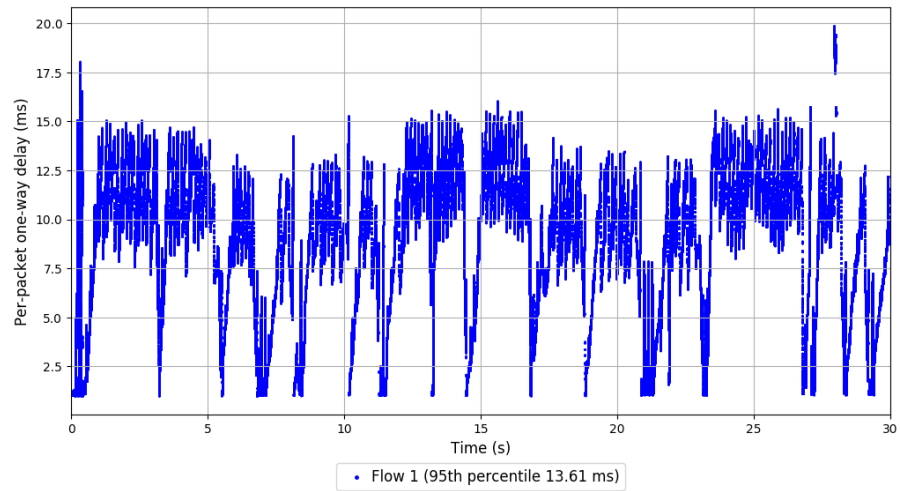
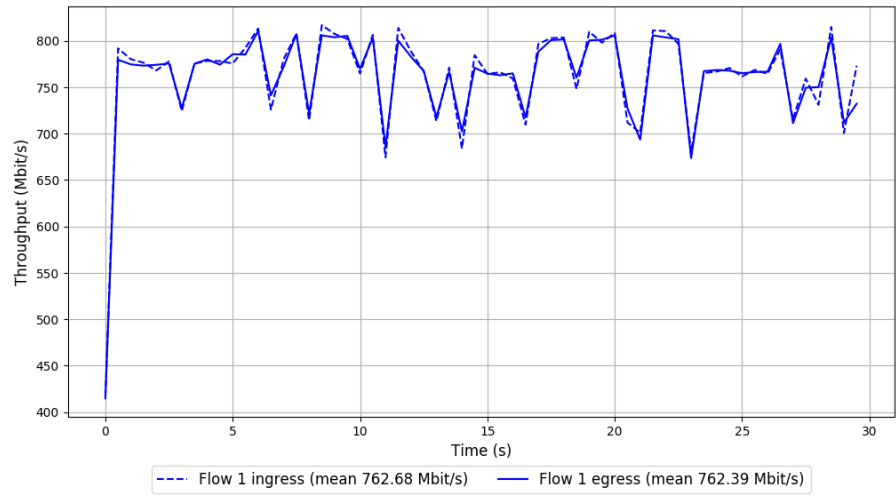


Run 2: Statistics of TCP BBR

Start at: 2018-04-24 05:31:20  
End at: 2018-04-24 05:31:50  
Local clock offset: -1.493 ms  
Remote clock offset: -5.217 ms

# Below is generated by plot.py at 2018-04-24 13:52:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 762.39 Mbit/s  
95th percentile per-packet one-way delay: 13.612 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 762.39 Mbit/s  
95th percentile per-packet one-way delay: 13.612 ms  
Loss rate: 0.10%

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

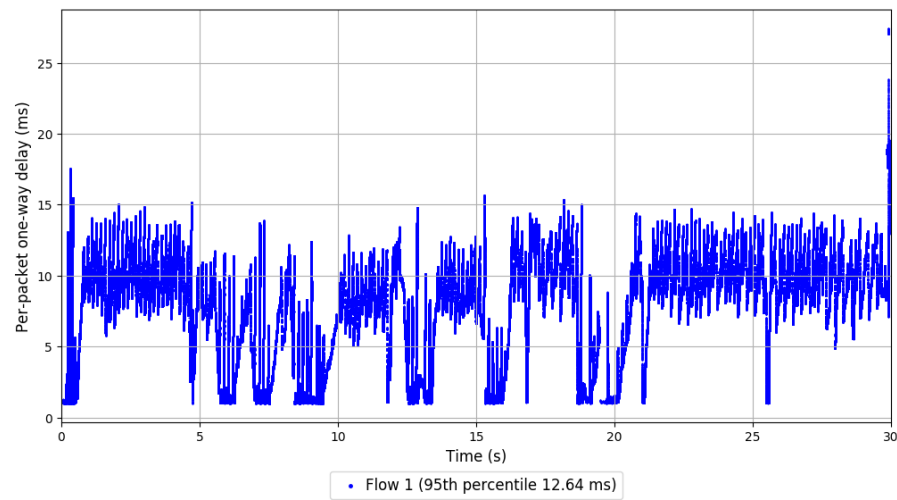
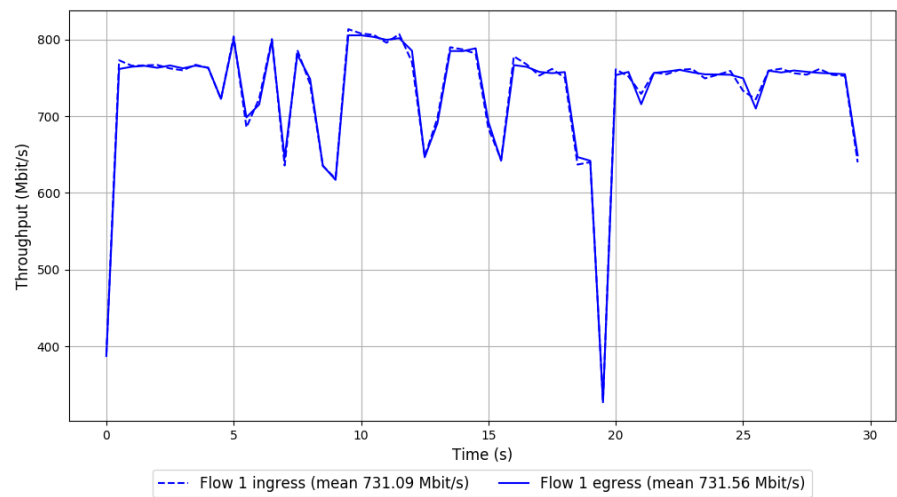


Run 3: Statistics of TCP BBR

Start at: 2018-04-24 05:56:43  
End at: 2018-04-24 05:57:13  
Local clock offset: -2.267 ms  
Remote clock offset: -4.959 ms

# Below is generated by plot.py at 2018-04-24 13:52:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 731.56 Mbit/s  
95th percentile per-packet one-way delay: 12.637 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 731.56 Mbit/s  
95th percentile per-packet one-way delay: 12.637 ms  
Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link

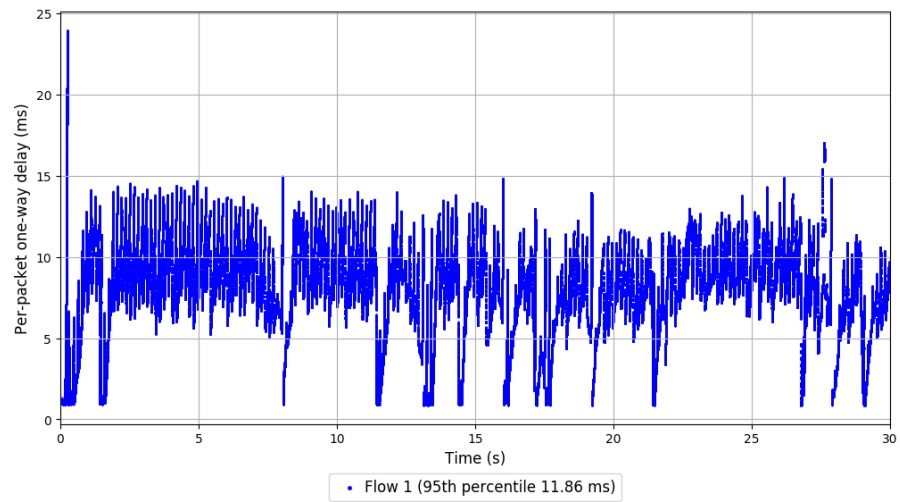
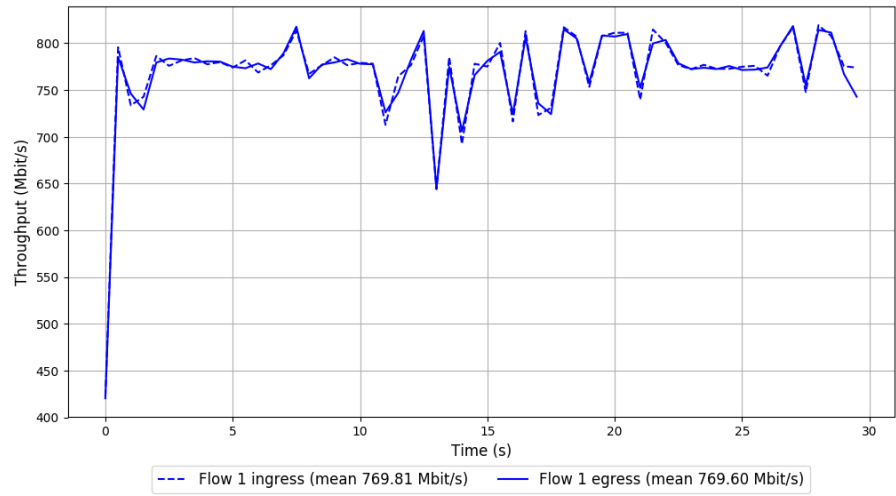


Run 4: Statistics of TCP BBR

Start at: 2018-04-24 06:22:01  
End at: 2018-04-24 06:22:31  
Local clock offset: -1.507 ms  
Remote clock offset: -6.764 ms

# Below is generated by plot.py at 2018-04-24 13:52:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 769.60 Mbit/s  
95th percentile per-packet one-way delay: 11.858 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 769.60 Mbit/s  
95th percentile per-packet one-way delay: 11.858 ms  
Loss rate: 0.10%

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



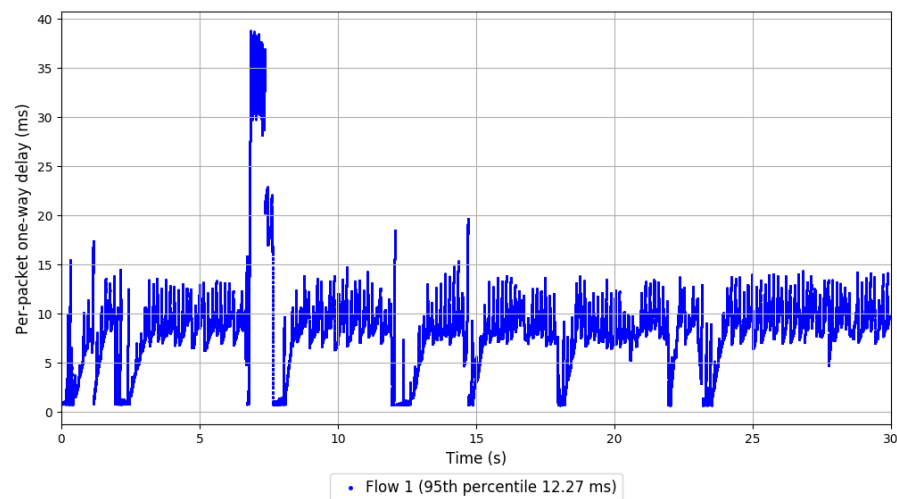
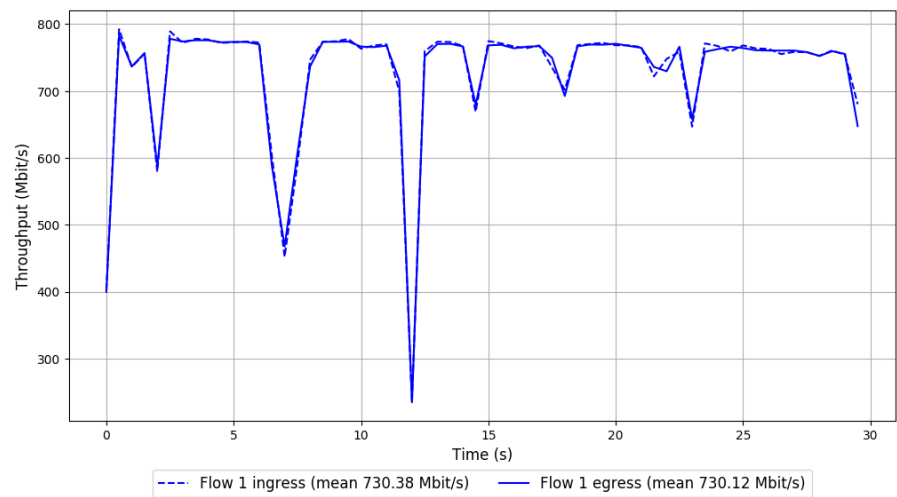
Run 5: Statistics of TCP BBR

Start at: 2018-04-24 06:47:20  
End at: 2018-04-24 06:47:50  
Local clock offset: -1.437 ms  
Remote clock offset: -7.282 ms

# Below is generated by plot.py at 2018-04-24 13:52:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 730.12 Mbit/s  
95th percentile per-packet one-way delay: 12.274 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 730.12 Mbit/s  
95th percentile per-packet one-way delay: 12.274 ms  
Loss rate: 0.10%



Run 5: Report of TCP BBR — Data Link

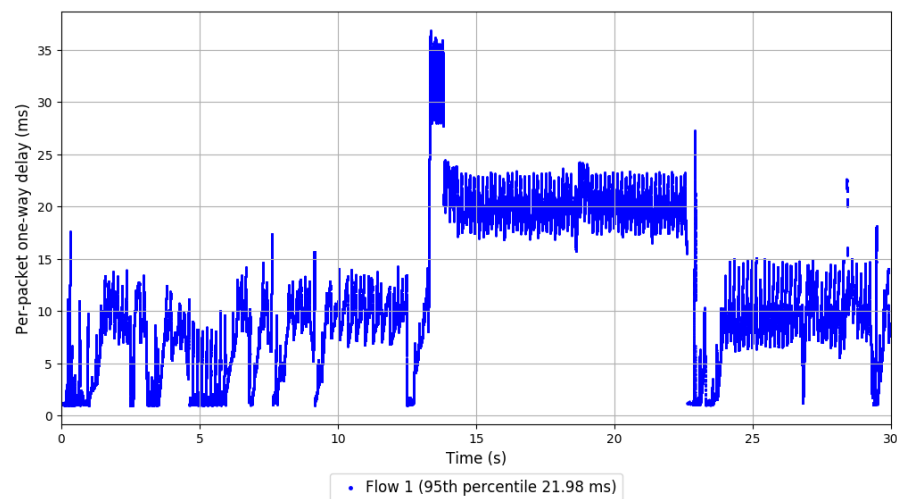
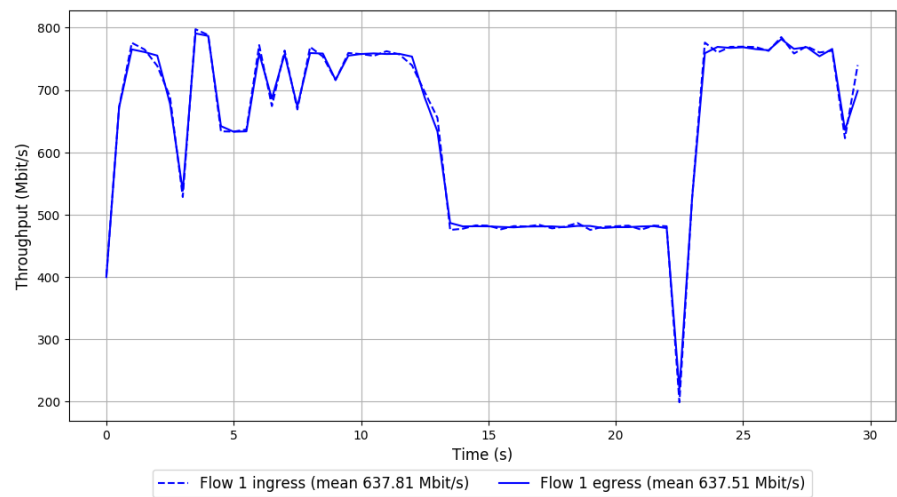


Run 6: Statistics of TCP BBR

Start at: 2018-04-24 07:12:49  
End at: 2018-04-24 07:13:19  
Local clock offset: 0.897 ms  
Remote clock offset: -6.149 ms

# Below is generated by plot.py at 2018-04-24 13:52:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 637.51 Mbit/s  
95th percentile per-packet one-way delay: 21.982 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 637.51 Mbit/s  
95th percentile per-packet one-way delay: 21.982 ms  
Loss rate: 0.11%

Run 6: Report of TCP BBR — Data Link

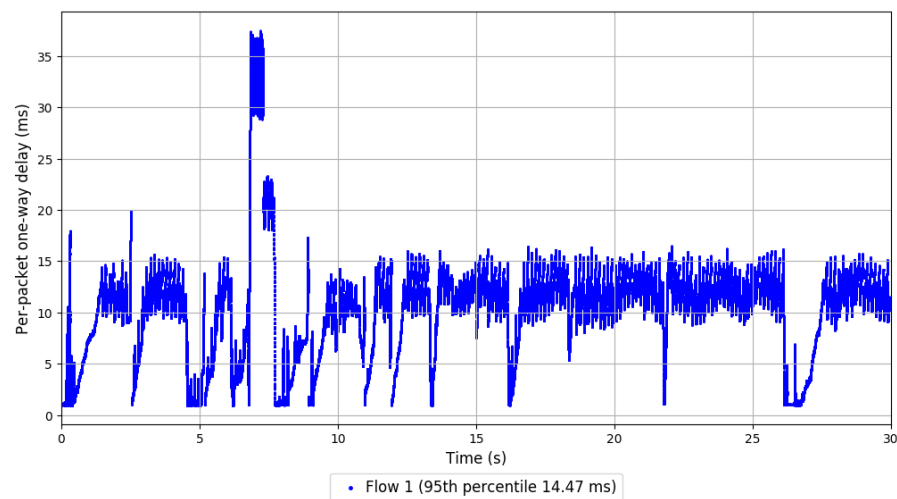
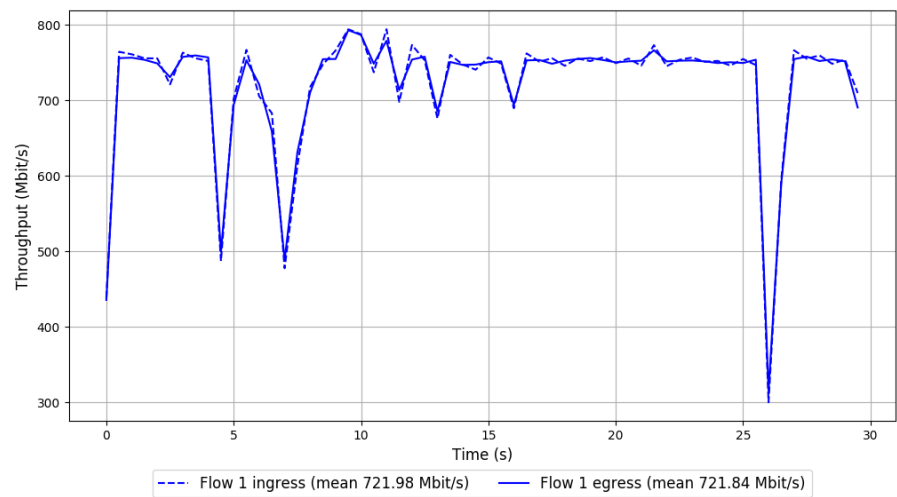


Run 7: Statistics of TCP BBR

Start at: 2018-04-24 07:38:05  
End at: 2018-04-24 07:38:35  
Local clock offset: -1.045 ms  
Remote clock offset: -4.713 ms

# Below is generated by plot.py at 2018-04-24 13:52:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 721.84 Mbit/s  
95th percentile per-packet one-way delay: 14.470 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 721.84 Mbit/s  
95th percentile per-packet one-way delay: 14.470 ms  
Loss rate: 0.09%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-24 08:03:22

End at: 2018-04-24 08:03:52

Local clock offset: -0.959 ms

Remote clock offset: -6.194 ms

# Below is generated by plot.py at 2018-04-24 13:52:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 737.85 Mbit/s

95th percentile per-packet one-way delay: 12.513 ms

Loss rate: 0.08%

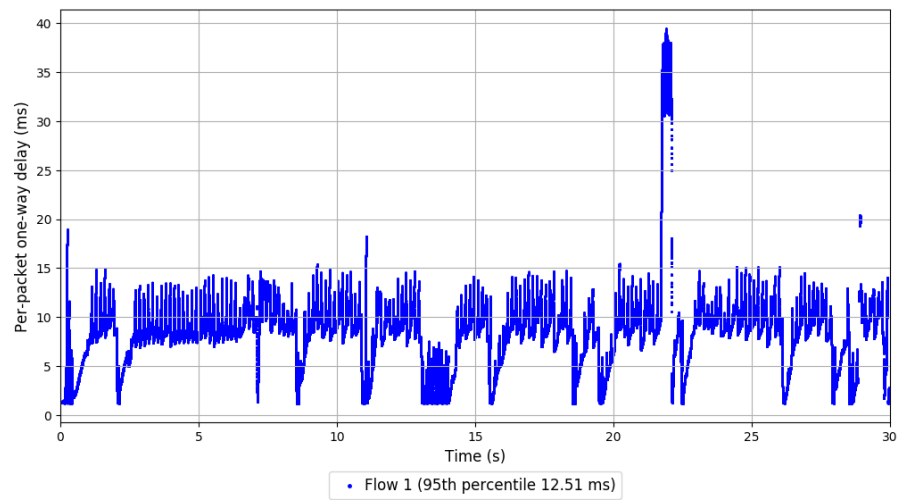
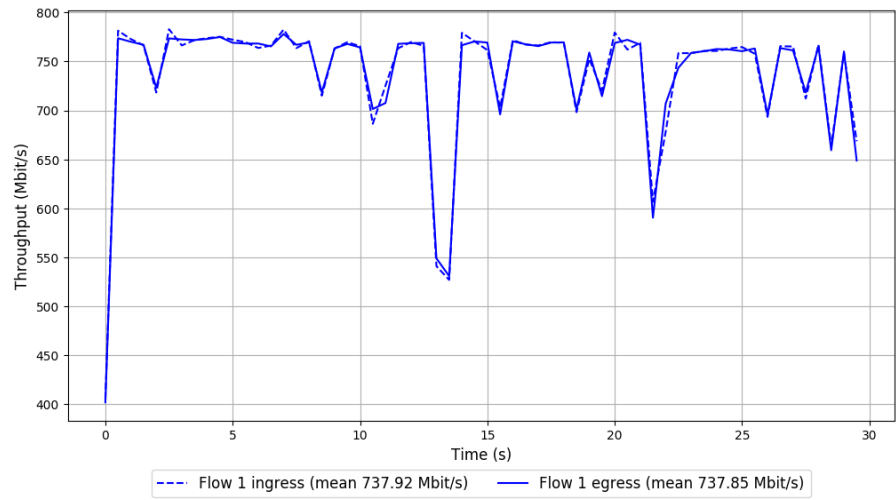
-- Flow 1:

Average throughput: 737.85 Mbit/s

95th percentile per-packet one-way delay: 12.513 ms

Loss rate: 0.08%

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



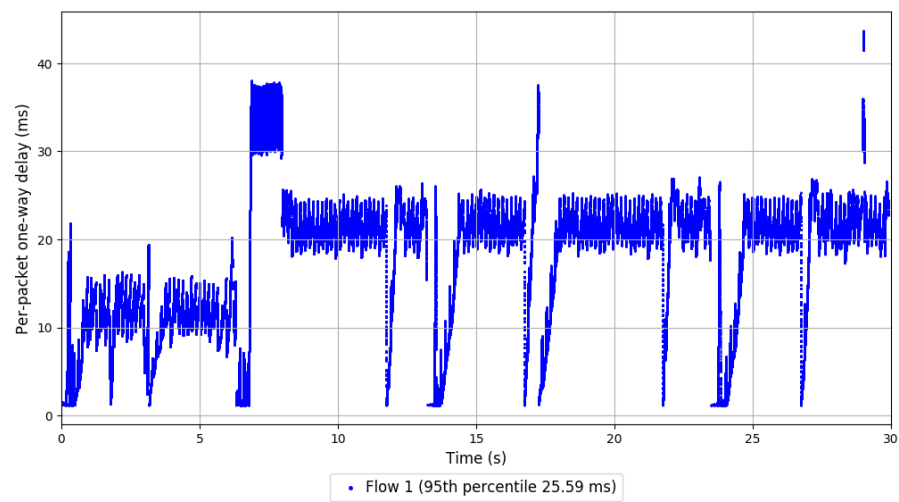
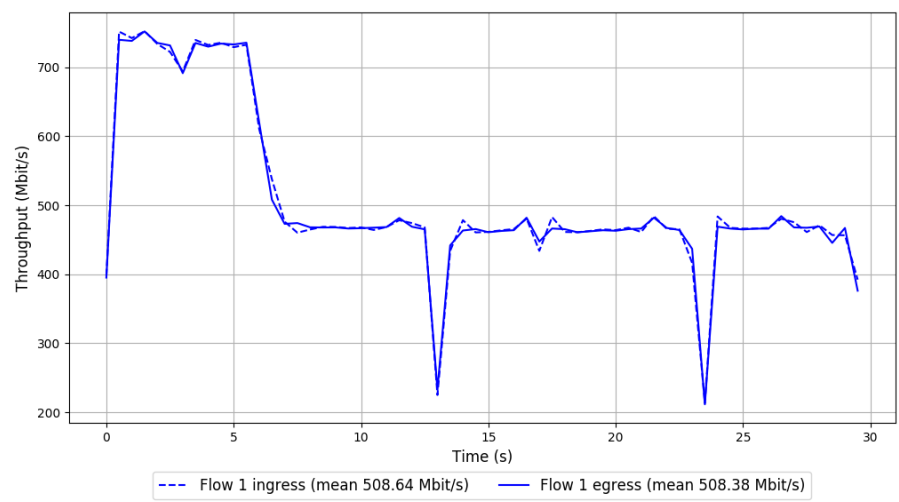
Run 9: Statistics of TCP BBR

Start at: 2018-04-24 08:28:47  
End at: 2018-04-24 08:29:17  
Local clock offset: -1.234 ms  
Remote clock offset: -6.366 ms

# Below is generated by plot.py at 2018-04-24 13:58:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 508.38 Mbit/s  
95th percentile per-packet one-way delay: 25.588 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 508.38 Mbit/s  
95th percentile per-packet one-way delay: 25.588 ms  
Loss rate: 0.12%



Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-24 08:53:57

End at: 2018-04-24 08:54:27

Local clock offset: -0.73 ms

Remote clock offset: -5.89 ms

# Below is generated by plot.py at 2018-04-24 13:59:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 608.25 Mbit/s

95th percentile per-packet one-way delay: 21.295 ms

Loss rate: 0.12%

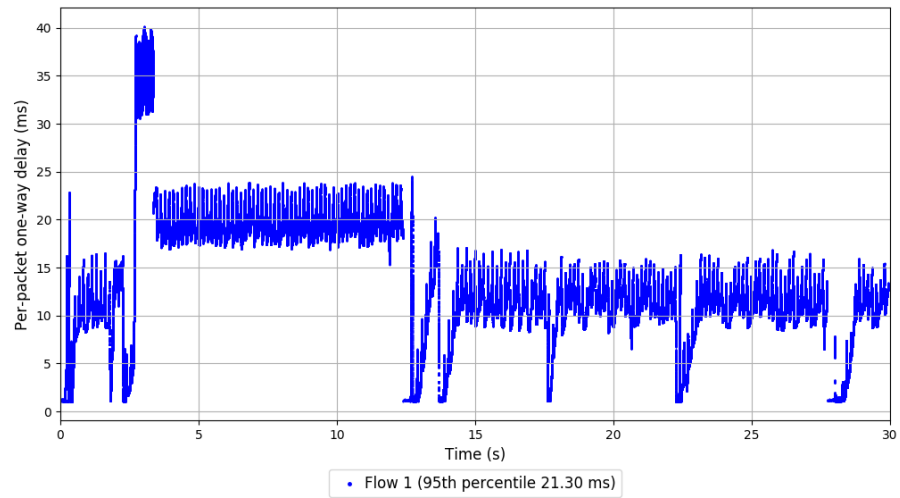
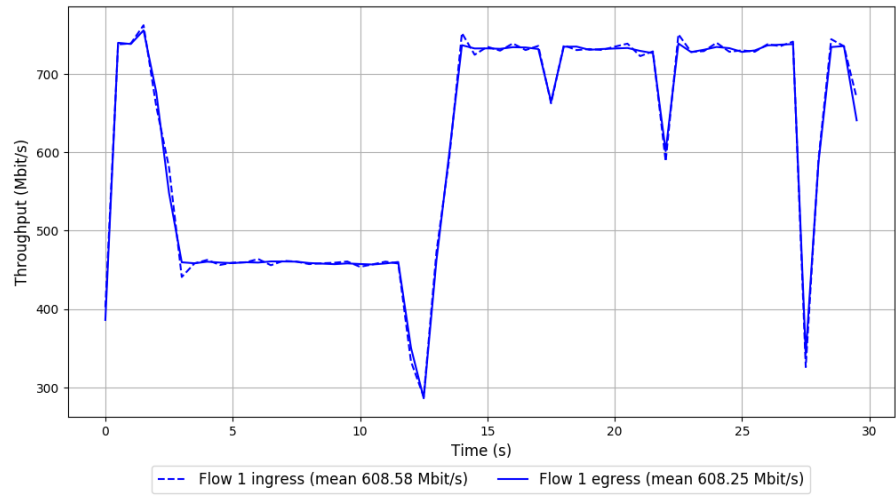
-- Flow 1:

Average throughput: 608.25 Mbit/s

95th percentile per-packet one-way delay: 21.295 ms

Loss rate: 0.12%

Run 10: Report of TCP BBR — Data Link

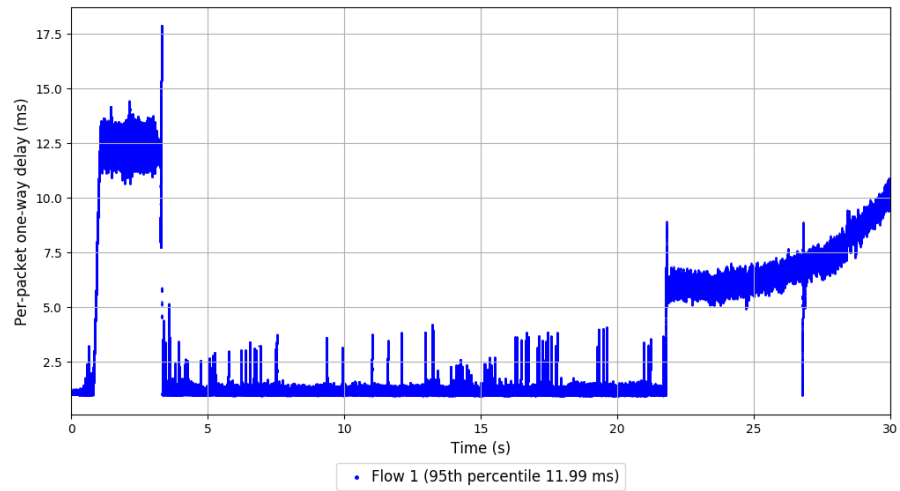
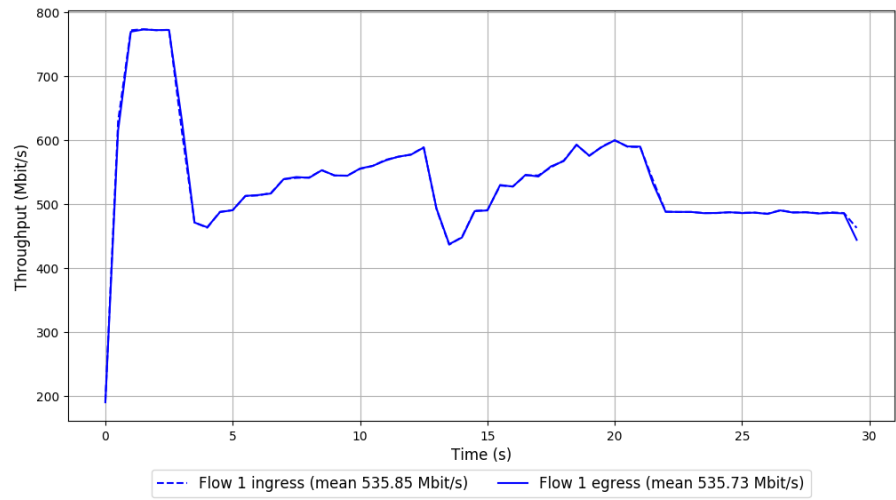


Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 05:23:35  
End at: 2018-04-24 05:24:05  
Local clock offset: -0.935 ms  
Remote clock offset: -5.069 ms

# Below is generated by plot.py at 2018-04-24 13:59:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 535.73 Mbit/s  
95th percentile per-packet one-way delay: 11.987 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 535.73 Mbit/s  
95th percentile per-packet one-way delay: 11.987 ms  
Loss rate: 0.09%

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

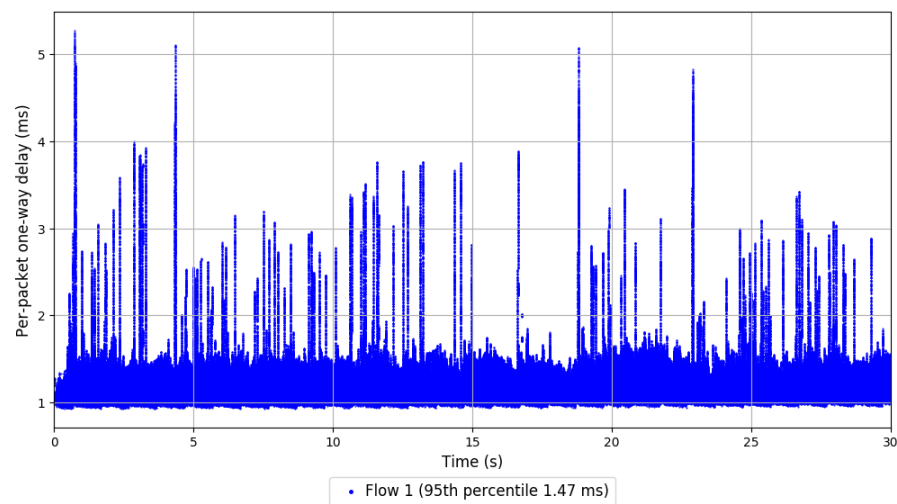
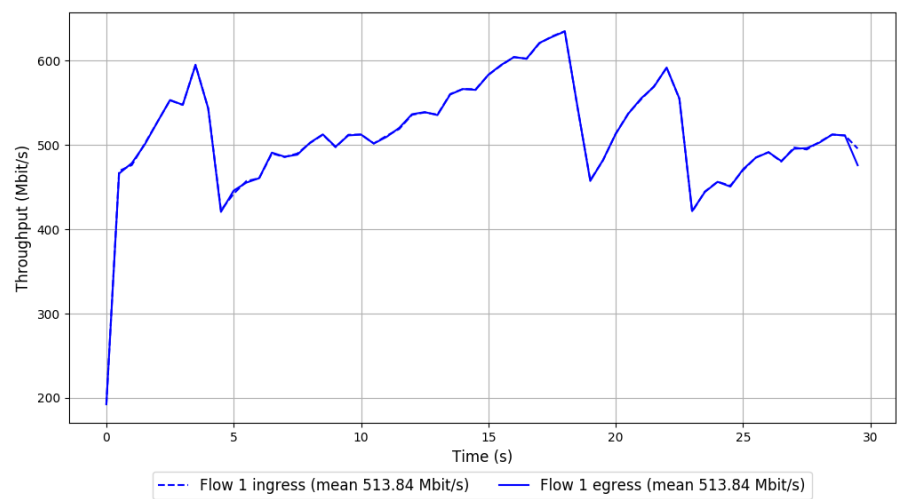


Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 05:48:59  
End at: 2018-04-24 05:49:29  
Local clock offset: -1.744 ms  
Remote clock offset: -5.047 ms

# Below is generated by plot.py at 2018-04-24 13:59:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 513.84 Mbit/s  
95th percentile per-packet one-way delay: 1.466 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 513.84 Mbit/s  
95th percentile per-packet one-way delay: 1.466 ms  
Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link



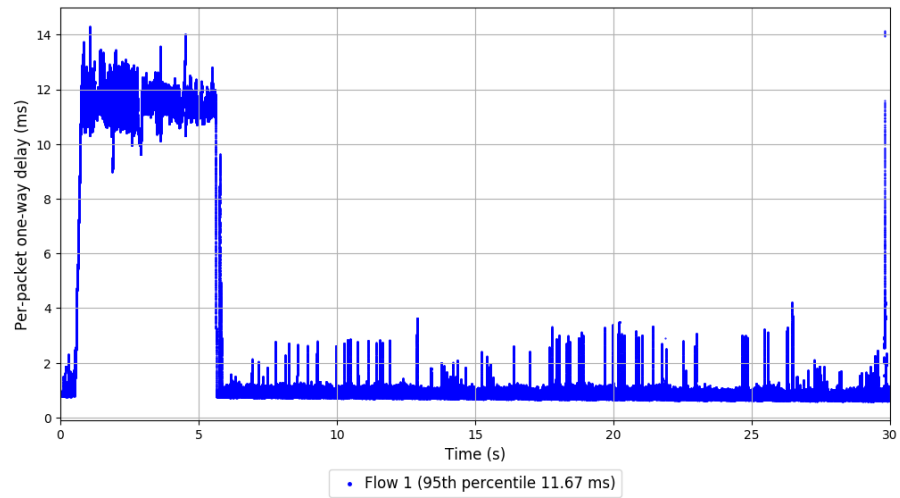
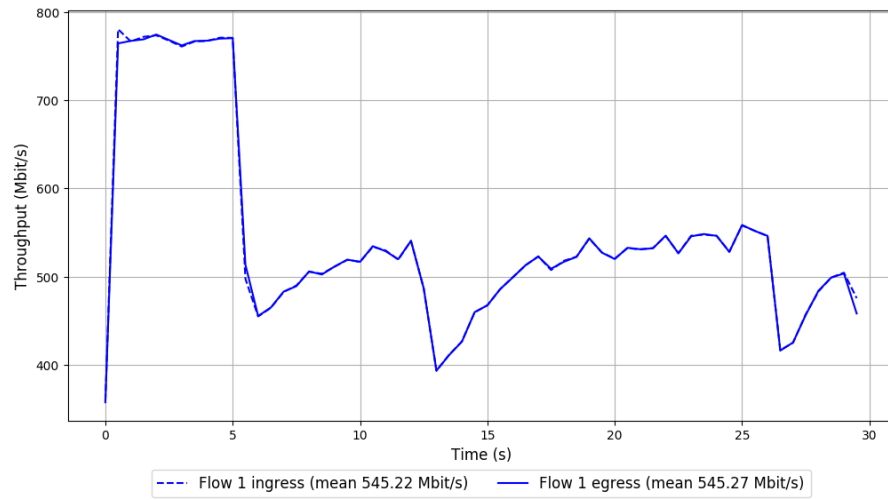
Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 06:14:17  
End at: 2018-04-24 06:14:47  
Local clock offset: -3.1 ms  
Remote clock offset: -6.538 ms

# Below is generated by plot.py at 2018-04-24 13:59:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 545.27 Mbit/s  
95th percentile per-packet one-way delay: 11.672 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 545.27 Mbit/s  
95th percentile per-packet one-way delay: 11.672 ms  
Loss rate: 0.06%



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

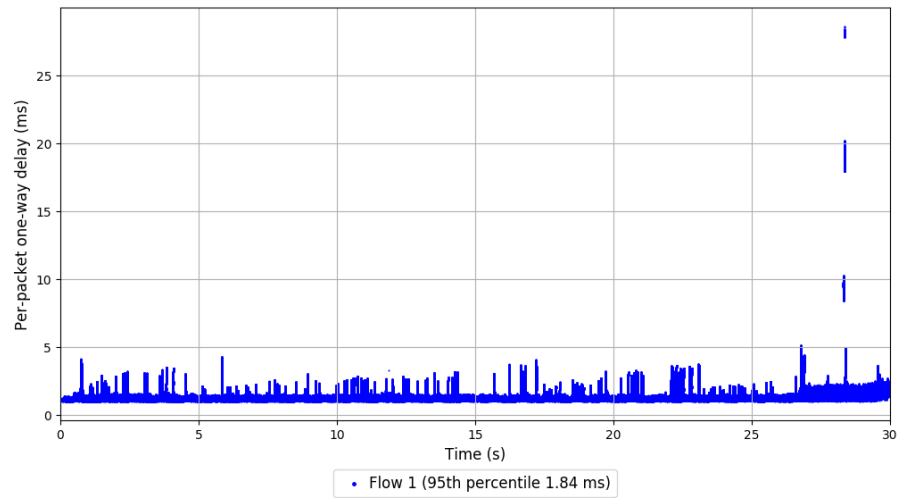
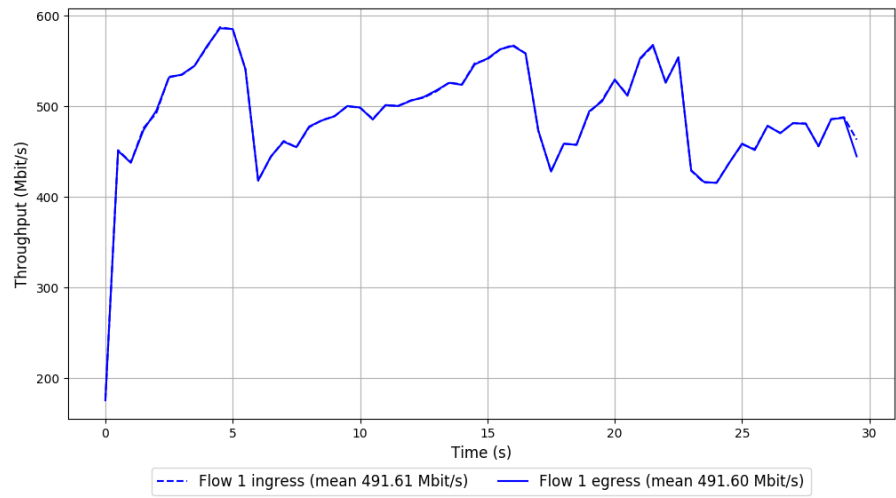


Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 06:39:37  
End at: 2018-04-24 06:40:07  
Local clock offset: -1.446 ms  
Remote clock offset: -7.153 ms

# Below is generated by plot.py at 2018-04-24 13:59:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 491.60 Mbit/s  
95th percentile per-packet one-way delay: 1.838 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 491.60 Mbit/s  
95th percentile per-packet one-way delay: 1.838 ms  
Loss rate: 0.07%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 07:05:04

End at: 2018-04-24 07:05:34

Local clock offset: 0.823 ms

Remote clock offset: -7.641 ms

# Below is generated by plot.py at 2018-04-24 14:00:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 608.13 Mbit/s

95th percentile per-packet one-way delay: 8.799 ms

Loss rate: 0.07%

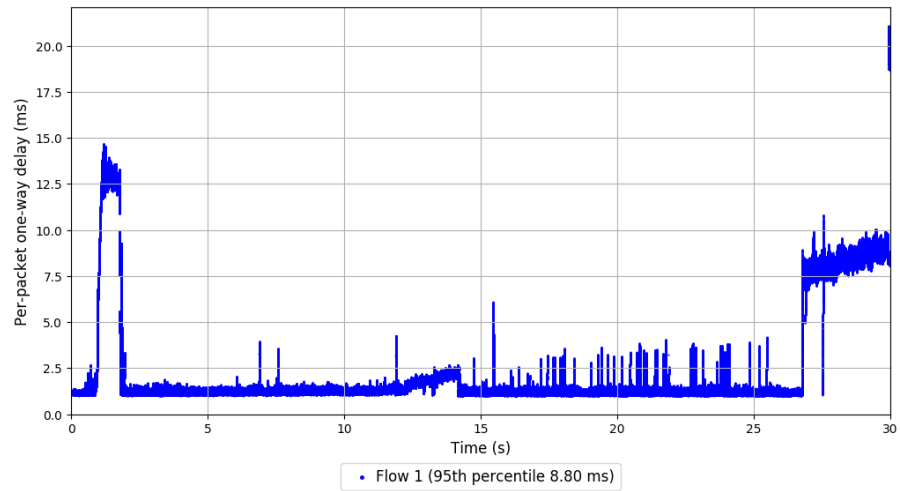
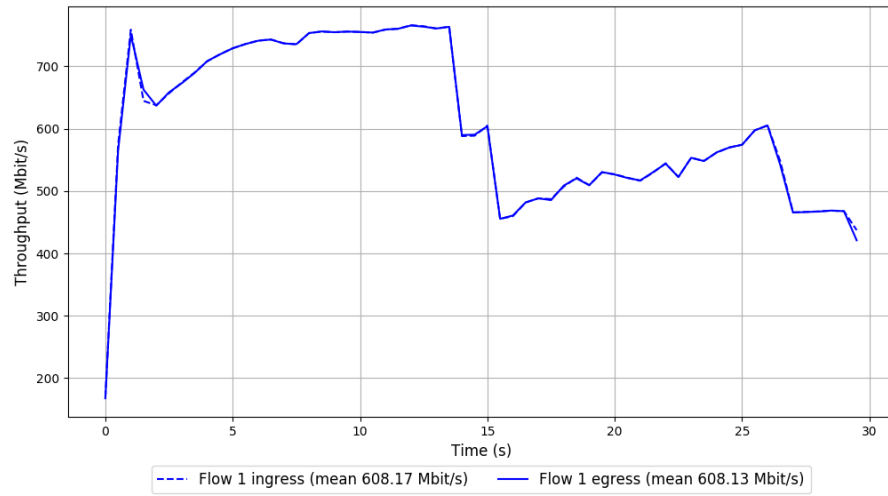
-- Flow 1:

Average throughput: 608.13 Mbit/s

95th percentile per-packet one-way delay: 8.799 ms

Loss rate: 0.07%

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

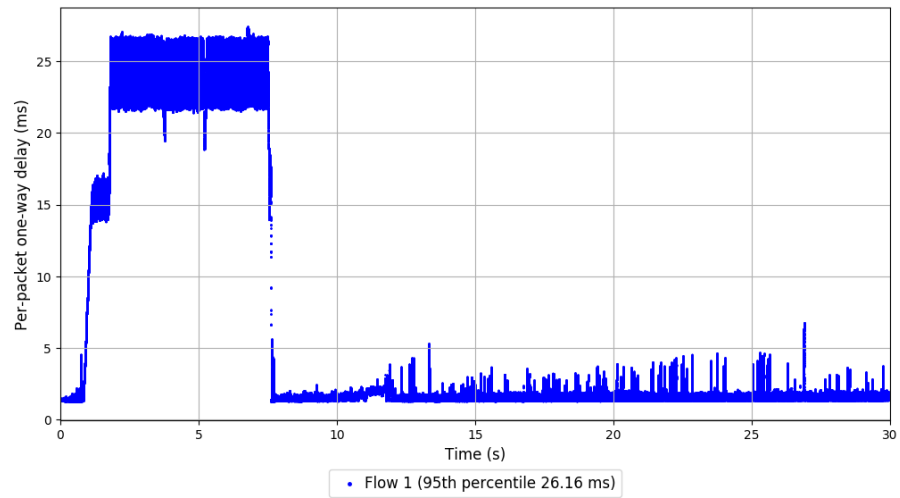
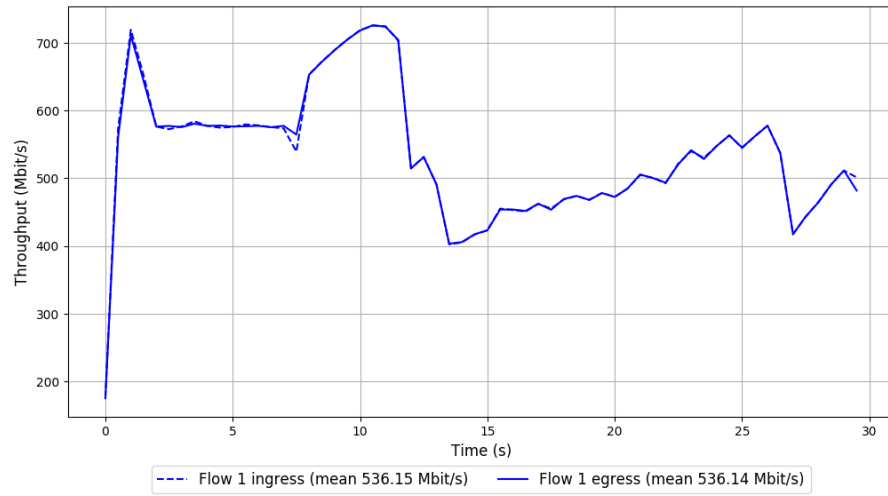


Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 07:30:24  
End at: 2018-04-24 07:30:54  
Local clock offset: -0.203 ms  
Remote clock offset: -4.983 ms

# Below is generated by plot.py at 2018-04-24 14:00:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 536.14 Mbit/s  
95th percentile per-packet one-way delay: 26.158 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 536.14 Mbit/s  
95th percentile per-packet one-way delay: 26.158 ms  
Loss rate: 0.07%

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



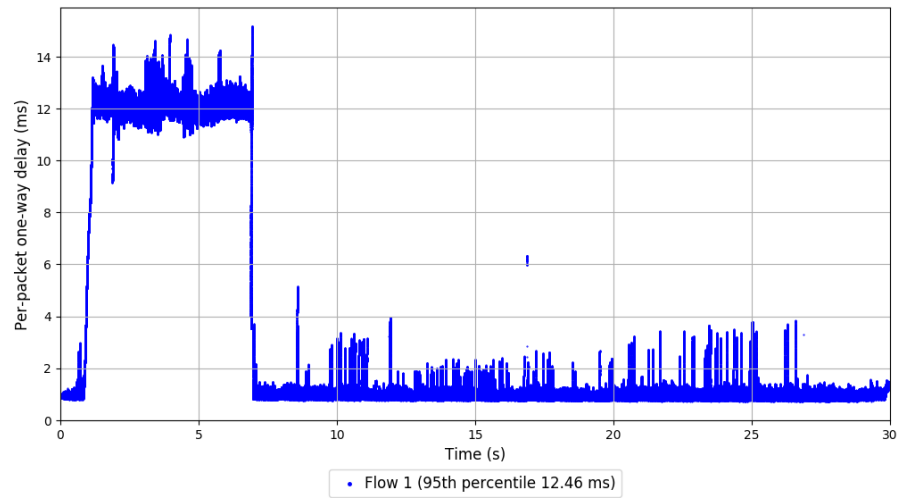
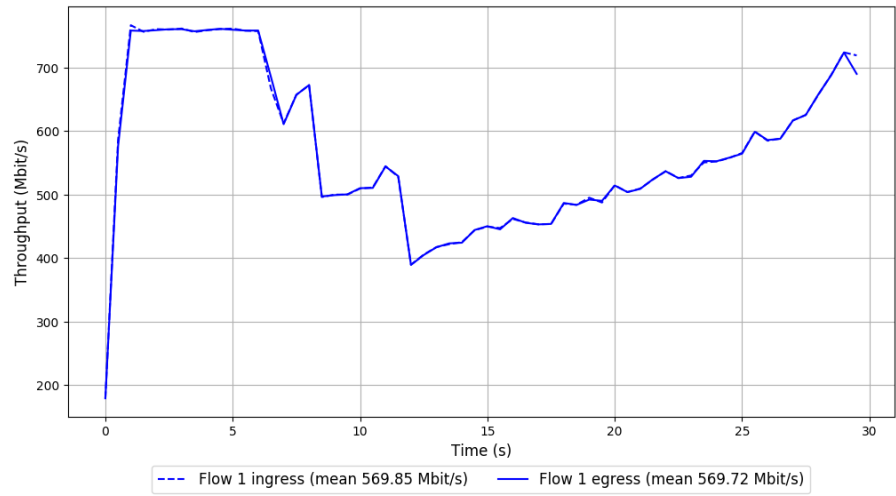
Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 07:55:44  
End at: 2018-04-24 07:56:14  
Local clock offset: -1.849 ms  
Remote clock offset: -6.072 ms

# Below is generated by plot.py at 2018-04-24 14:06:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 569.72 Mbit/s  
95th percentile per-packet one-way delay: 12.455 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 569.72 Mbit/s  
95th percentile per-packet one-way delay: 12.455 ms  
Loss rate: 0.09%



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

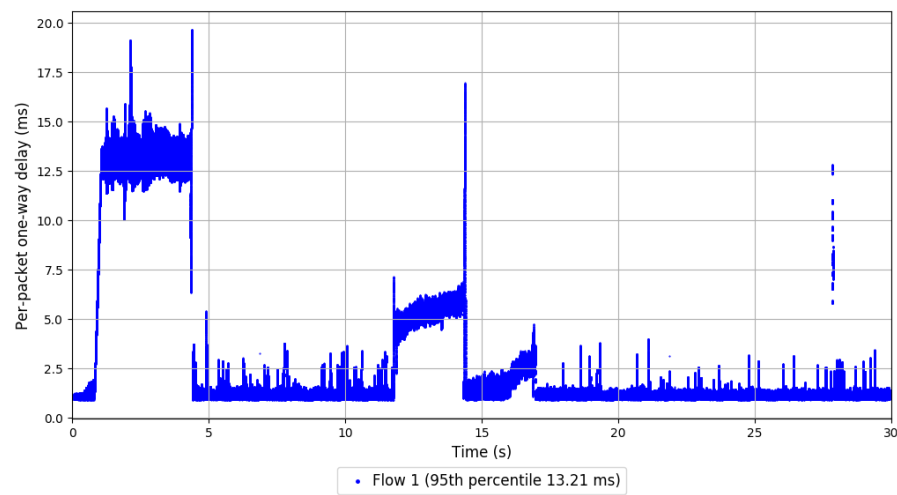
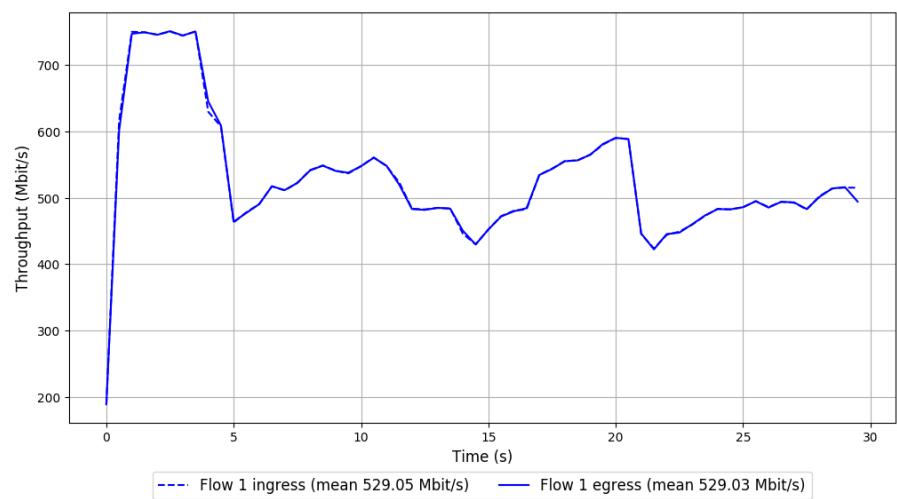


Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 08:21:06  
End at: 2018-04-24 08:21:36  
Local clock offset: -1.359 ms  
Remote clock offset: -6.333 ms

# Below is generated by plot.py at 2018-04-24 14:07:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 529.03 Mbit/s  
95th percentile per-packet one-way delay: 13.214 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 529.03 Mbit/s  
95th percentile per-packet one-way delay: 13.214 ms  
Loss rate: 0.07%

Run 8: Report of TCP Cubic — Data Link

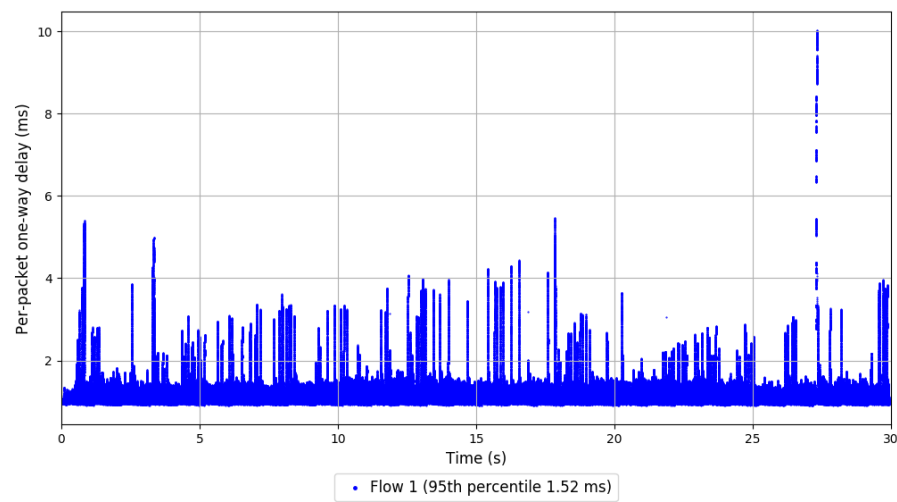
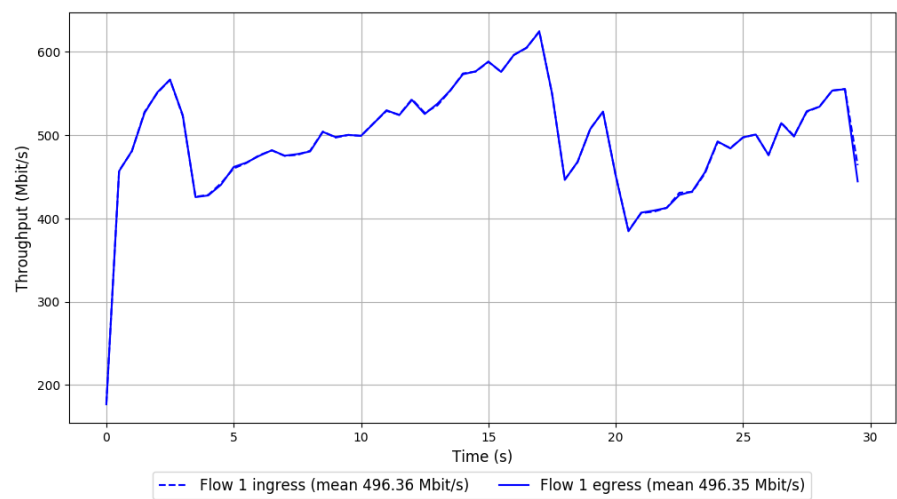


Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 08:46:21  
End at: 2018-04-24 08:46:51  
Local clock offset: -0.82 ms  
Remote clock offset: -6.394 ms

# Below is generated by plot.py at 2018-04-24 14:07:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 496.35 Mbit/s  
95th percentile per-packet one-way delay: 1.522 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 496.35 Mbit/s  
95th percentile per-packet one-way delay: 1.522 ms  
Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link

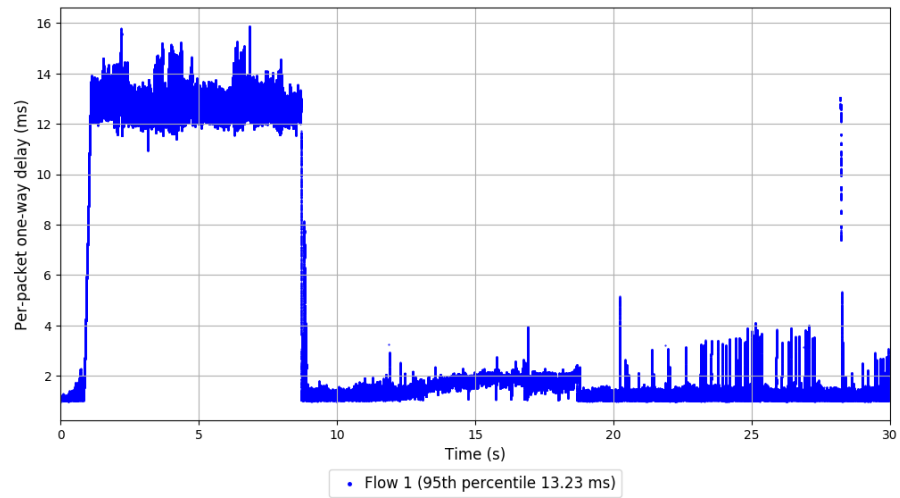
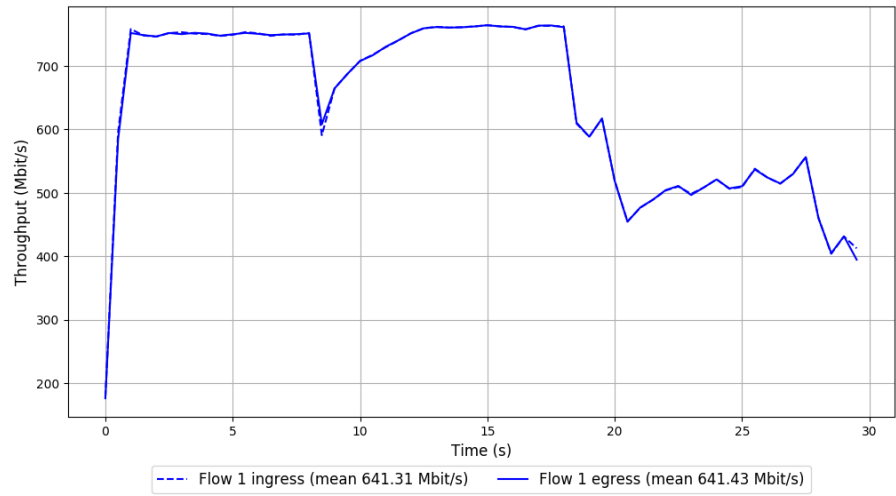


Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 09:11:31  
End at: 2018-04-24 09:12:01  
Local clock offset: -0.439 ms  
Remote clock offset: -5.247 ms

# Below is generated by plot.py at 2018-04-24 14:08:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 641.43 Mbit/s  
95th percentile per-packet one-way delay: 13.235 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 641.43 Mbit/s  
95th percentile per-packet one-way delay: 13.235 ms  
Loss rate: 0.05%

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



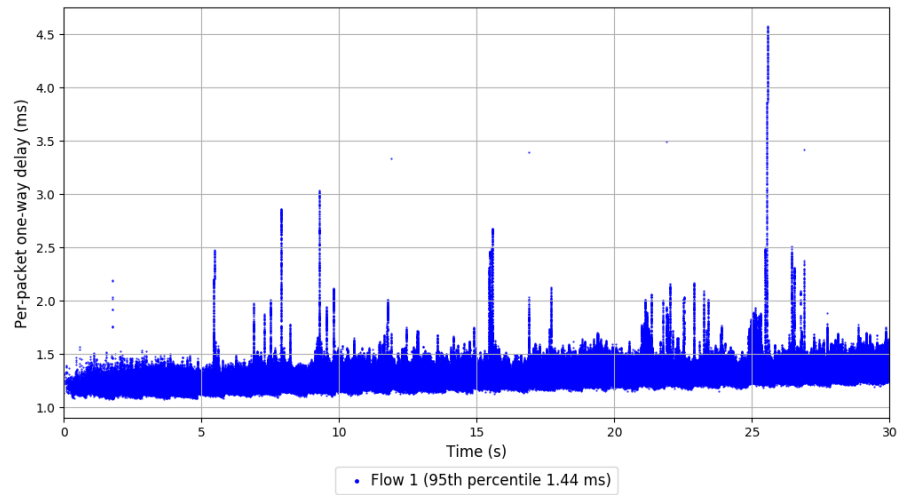
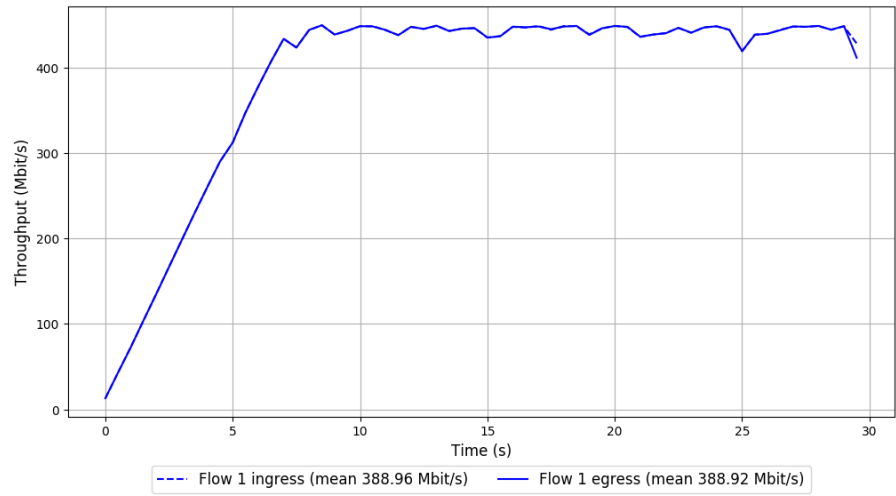
```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 05:10:18
End at: 2018-04-24 05:10:48
Local clock offset: -0.021 ms
Remote clock offset: -5.334 ms

# Below is generated by plot.py at 2018-04-24 14:08:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 388.92 Mbit/s
95th percentile per-packet one-way delay: 1.442 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 388.92 Mbit/s
95th percentile per-packet one-way delay: 1.442 ms
Loss rate: 0.07%
```



### Run 1: Report of LEDBAT — Data Link

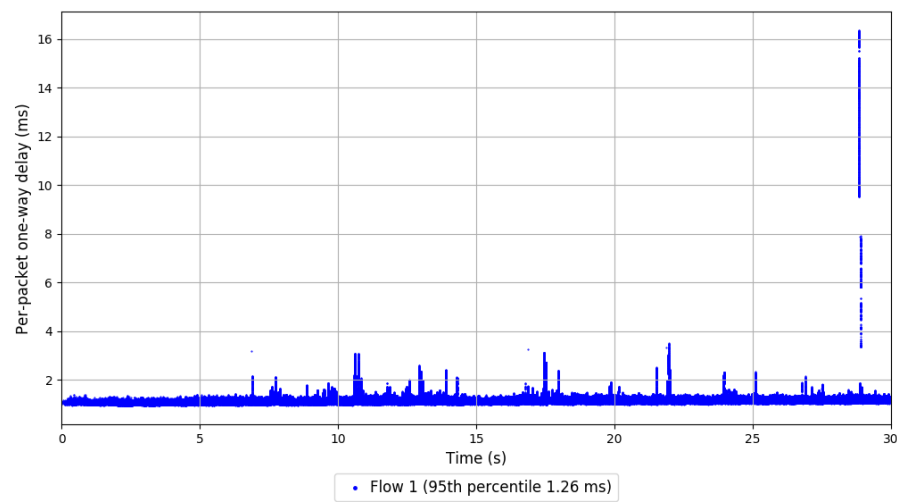
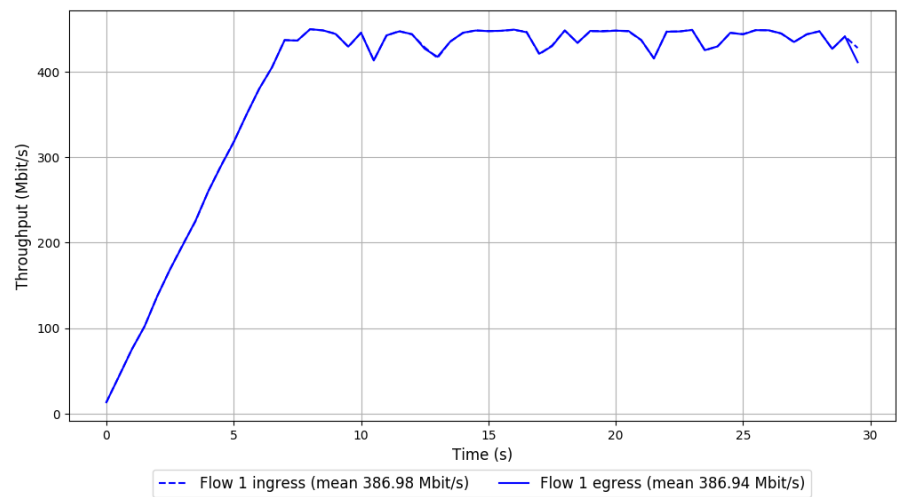


Run 2: Statistics of LEDBAT

Start at: 2018-04-24 05:35:51  
End at: 2018-04-24 05:36:21  
Local clock offset: -2.132 ms  
Remote clock offset: -5.144 ms

# Below is generated by plot.py at 2018-04-24 14:08:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 386.94 Mbit/s  
95th percentile per-packet one-way delay: 1.264 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 386.94 Mbit/s  
95th percentile per-packet one-way delay: 1.264 ms  
Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link

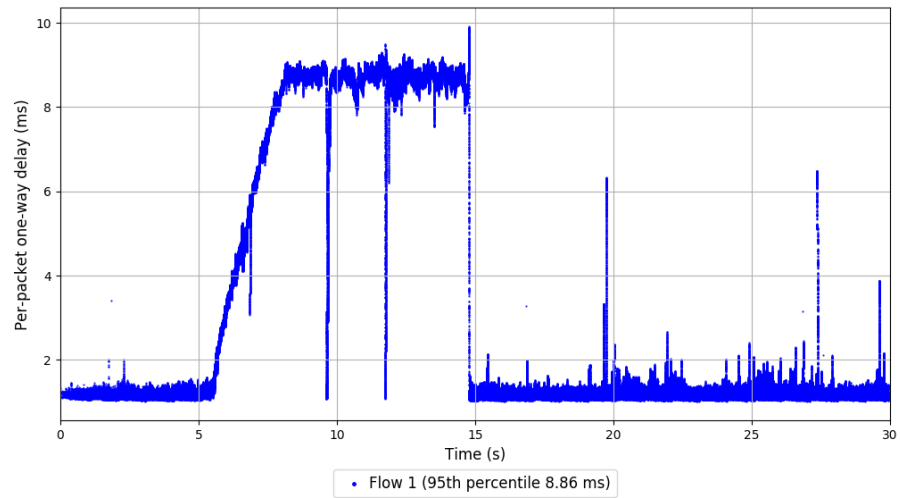
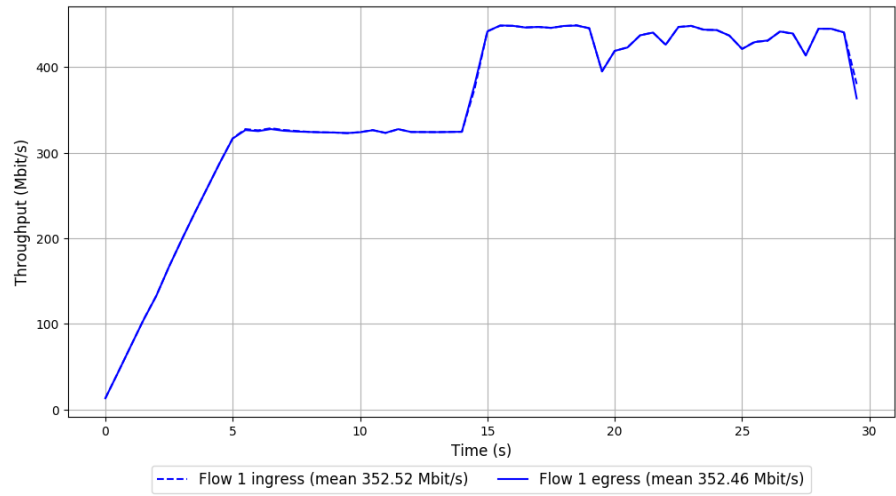


Run 3: Statistics of LEDBAT

Start at: 2018-04-24 06:01:13  
End at: 2018-04-24 06:01:43  
Local clock offset: -2.612 ms  
Remote clock offset: -5.544 ms

# Below is generated by plot.py at 2018-04-24 14:08:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 352.46 Mbit/s  
95th percentile per-packet one-way delay: 8.856 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 352.46 Mbit/s  
95th percentile per-packet one-way delay: 8.856 ms  
Loss rate: 0.08%

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

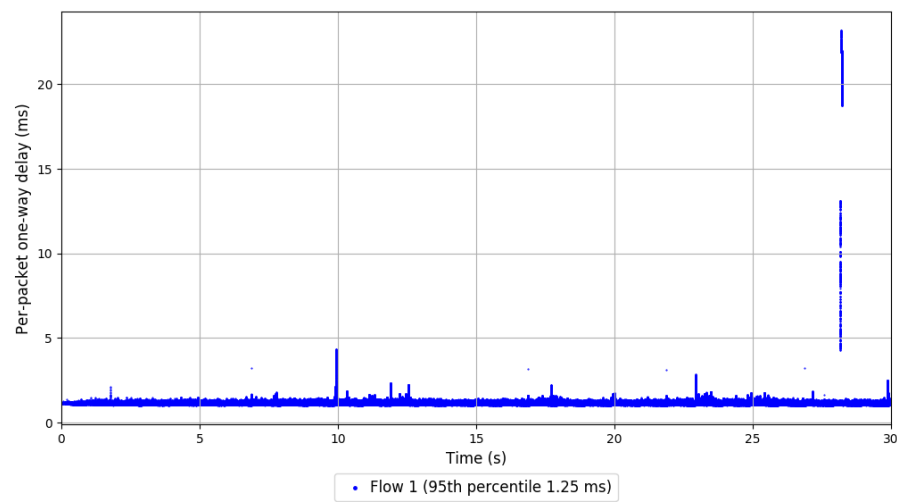
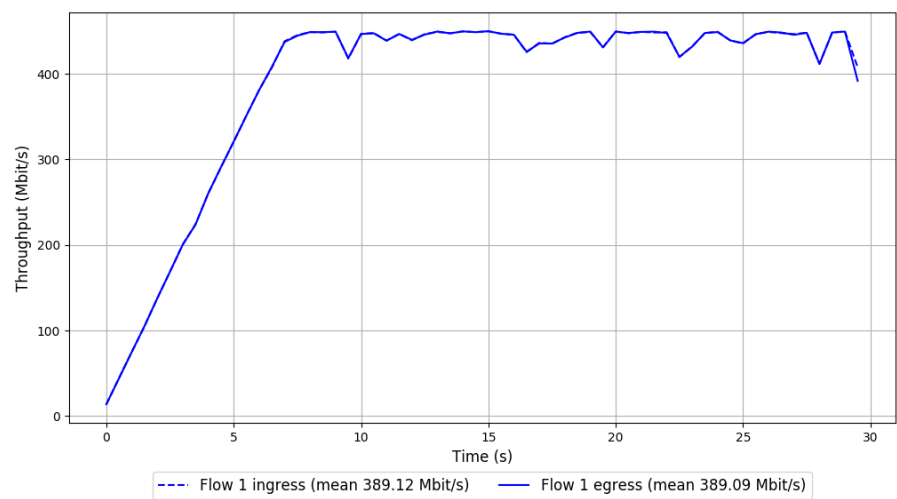


Run 4: Statistics of LEDBAT

Start at: 2018-04-24 06:26:32  
End at: 2018-04-24 06:27:02  
Local clock offset: -1.201 ms  
Remote clock offset: -6.929 ms

# Below is generated by plot.py at 2018-04-24 14:08:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 389.09 Mbit/s  
95th percentile per-packet one-way delay: 1.252 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 389.09 Mbit/s  
95th percentile per-packet one-way delay: 1.252 ms  
Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link



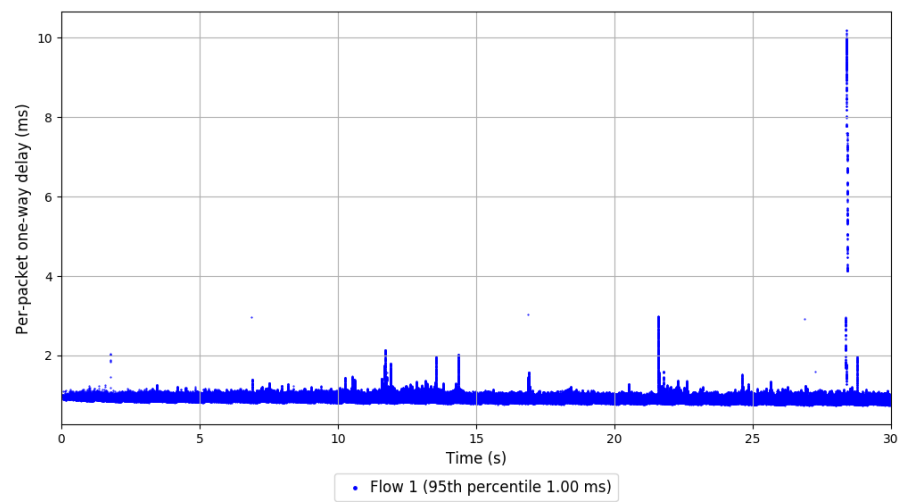
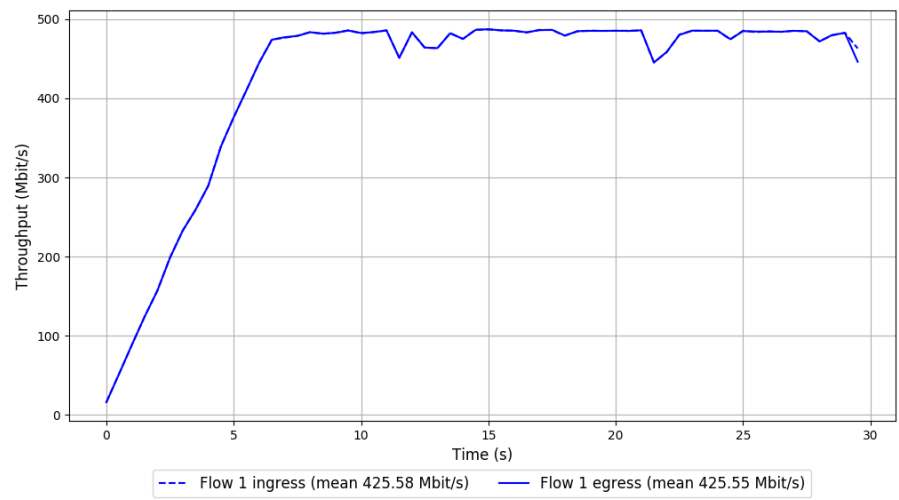
Run 5: Statistics of LEDBAT

Start at: 2018-04-24 06:51:50  
End at: 2018-04-24 06:52:20  
Local clock offset: -0.281 ms  
Remote clock offset: -7.342 ms

# Below is generated by plot.py at 2018-04-24 14:12:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 425.55 Mbit/s  
95th percentile per-packet one-way delay: 1.002 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 425.55 Mbit/s  
95th percentile per-packet one-way delay: 1.002 ms  
Loss rate: 0.07%



Run 5: Report of LEDBAT — Data Link

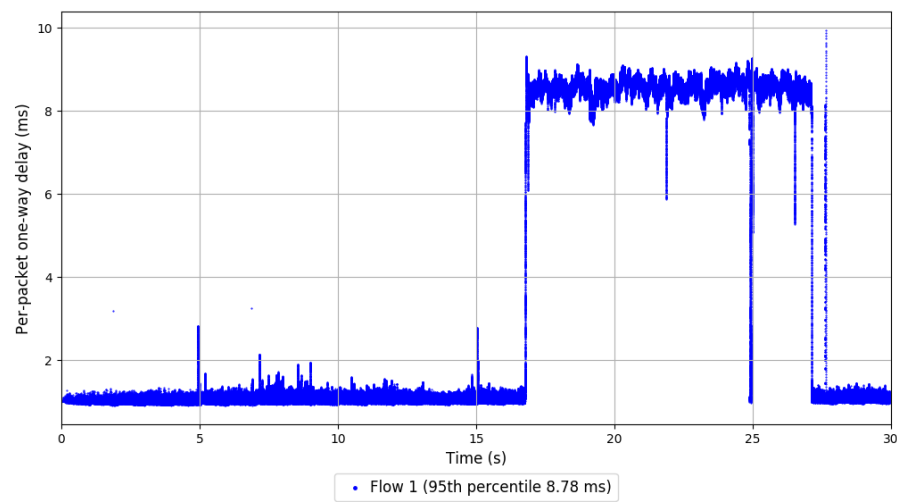
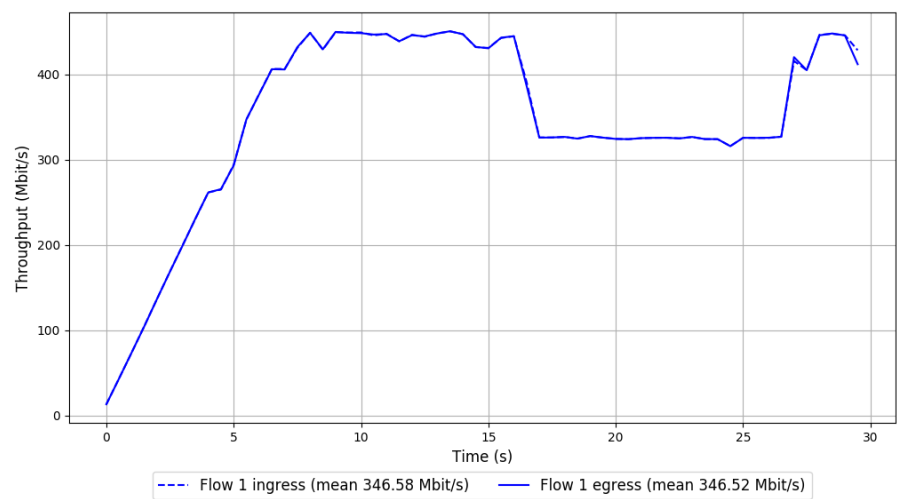


Run 6: Statistics of LEDBAT

Start at: 2018-04-24 07:17:16  
End at: 2018-04-24 07:17:46  
Local clock offset: 0.787 ms  
Remote clock offset: -5.719 ms

# Below is generated by plot.py at 2018-04-24 14:12:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 346.52 Mbit/s  
95th percentile per-packet one-way delay: 8.784 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 346.52 Mbit/s  
95th percentile per-packet one-way delay: 8.784 ms  
Loss rate: 0.09%

Run 6: Report of LEDBAT — Data Link

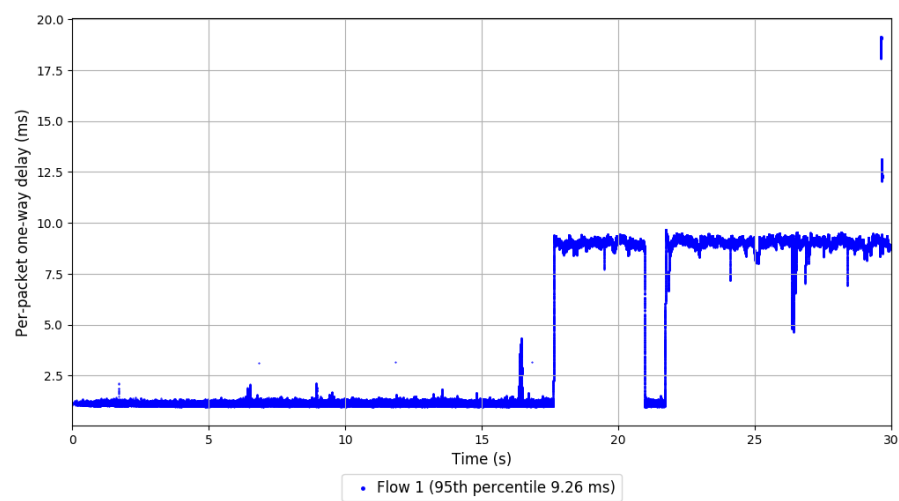
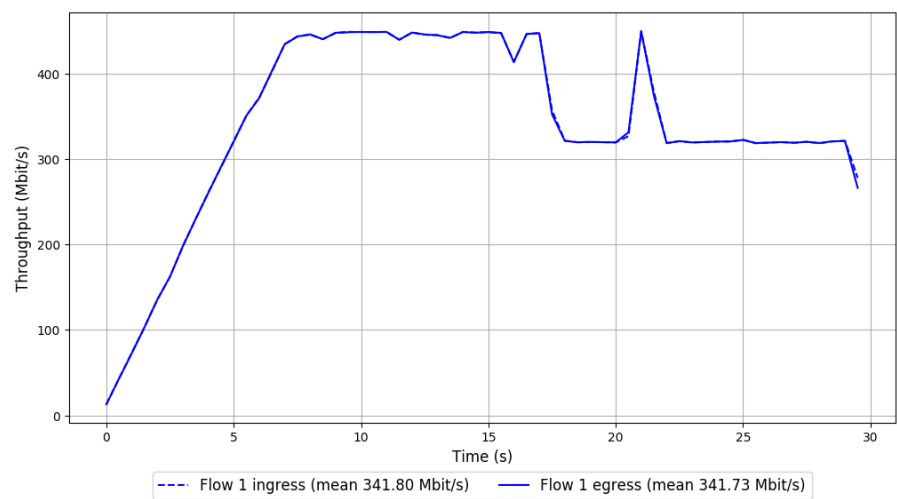


Run 7: Statistics of LEDBAT

Start at: 2018-04-24 07:42:34  
End at: 2018-04-24 07:43:04  
Local clock offset: -1.16 ms  
Remote clock offset: -5.065 ms

# Below is generated by plot.py at 2018-04-24 14:12:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 341.73 Mbit/s  
95th percentile per-packet one-way delay: 9.259 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 341.73 Mbit/s  
95th percentile per-packet one-way delay: 9.259 ms  
Loss rate: 0.09%

Run 7: Report of LEDBAT — Data Link

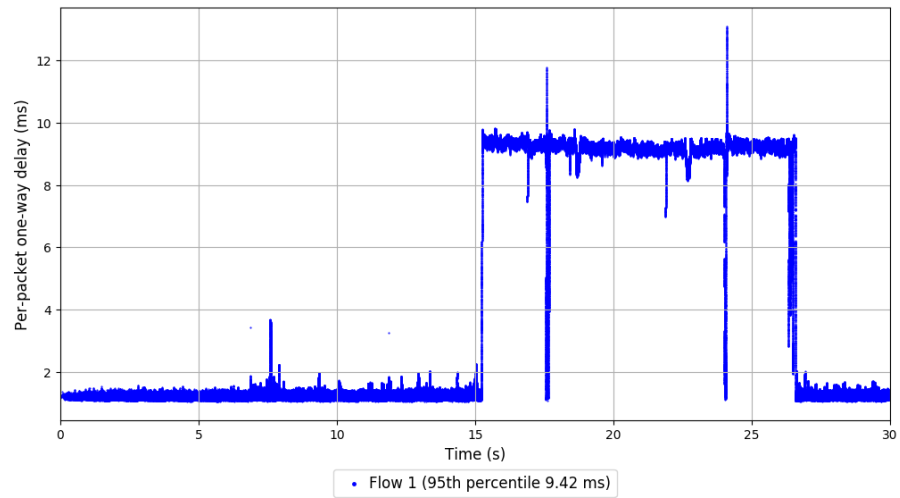
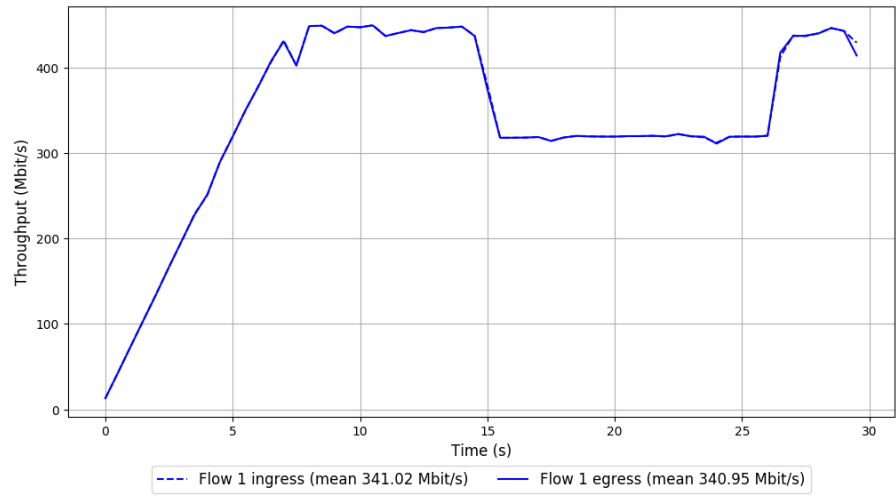


Run 8: Statistics of LEDBAT

Start at: 2018-04-24 08:07:53  
End at: 2018-04-24 08:08:23  
Local clock offset: -1.044 ms  
Remote clock offset: -6.293 ms

# Below is generated by plot.py at 2018-04-24 14:12:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 340.95 Mbit/s  
95th percentile per-packet one-way delay: 9.424 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 340.95 Mbit/s  
95th percentile per-packet one-way delay: 9.424 ms  
Loss rate: 0.08%

## Run 8: Report of LEDBAT — Data Link



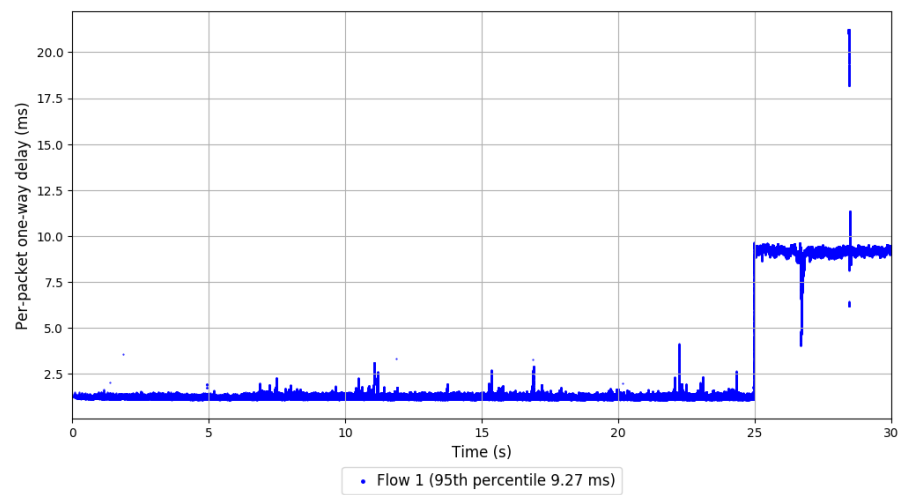
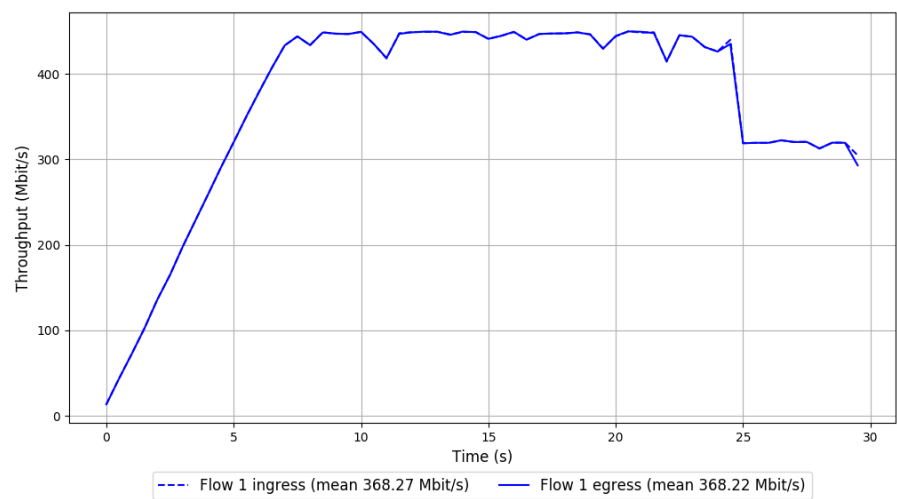
Run 9: Statistics of LEDBAT

Start at: 2018-04-24 08:33:09  
End at: 2018-04-24 08:33:39  
Local clock offset: -0.861 ms  
Remote clock offset: -6.309 ms

# Below is generated by plot.py at 2018-04-24 14:12:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 368.22 Mbit/s  
95th percentile per-packet one-way delay: 9.271 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 368.22 Mbit/s  
95th percentile per-packet one-way delay: 9.271 ms  
Loss rate: 0.08%



Run 9: Report of LEDBAT — Data Link

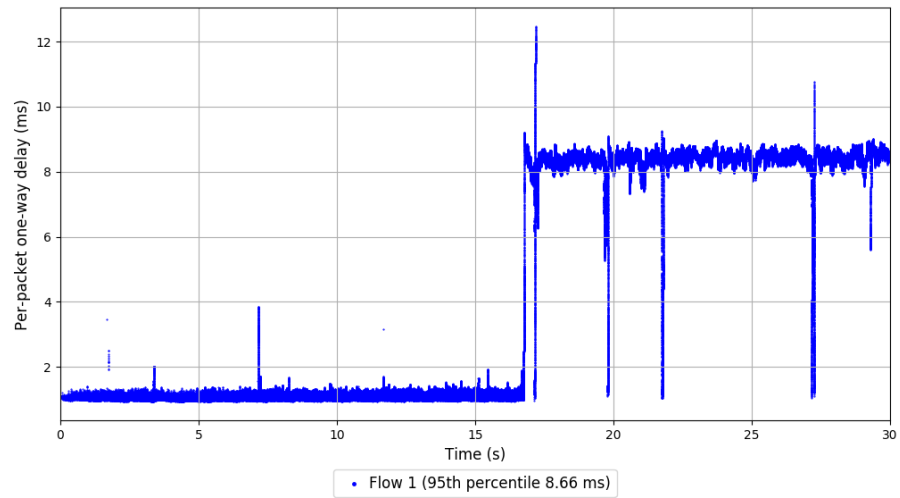
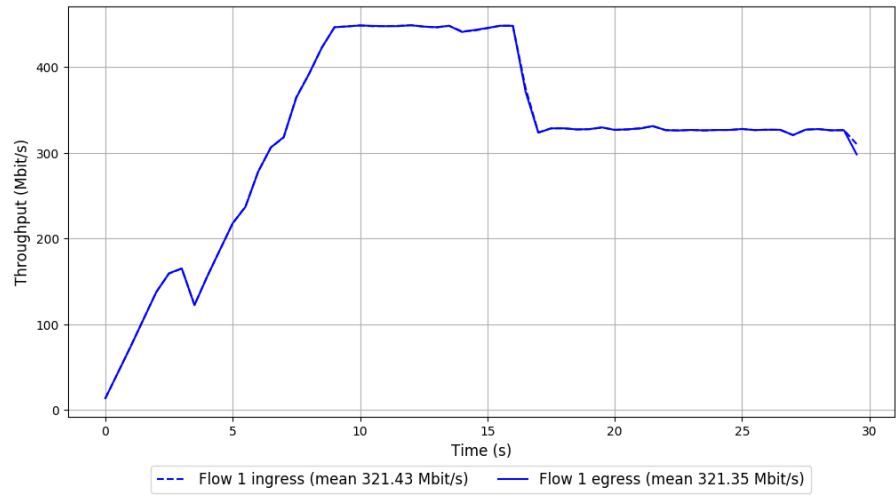


Run 10: Statistics of LEDBAT

Start at: 2018-04-24 08:58:22  
End at: 2018-04-24 08:58:52  
Local clock offset: -0.728 ms  
Remote clock offset: -5.546 ms

# Below is generated by plot.py at 2018-04-24 14:12:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 321.35 Mbit/s  
95th percentile per-packet one-way delay: 8.656 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 321.35 Mbit/s  
95th percentile per-packet one-way delay: 8.656 ms  
Loss rate: 0.09%

### Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 05:16:06

End at: 2018-04-24 05:16:36

Local clock offset: -0.556 ms

Remote clock offset: -5.228 ms

# Below is generated by plot.py at 2018-04-24 14:19:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 900.56 Mbit/s

95th percentile per-packet one-way delay: 2.124 ms

Loss rate: 0.61%

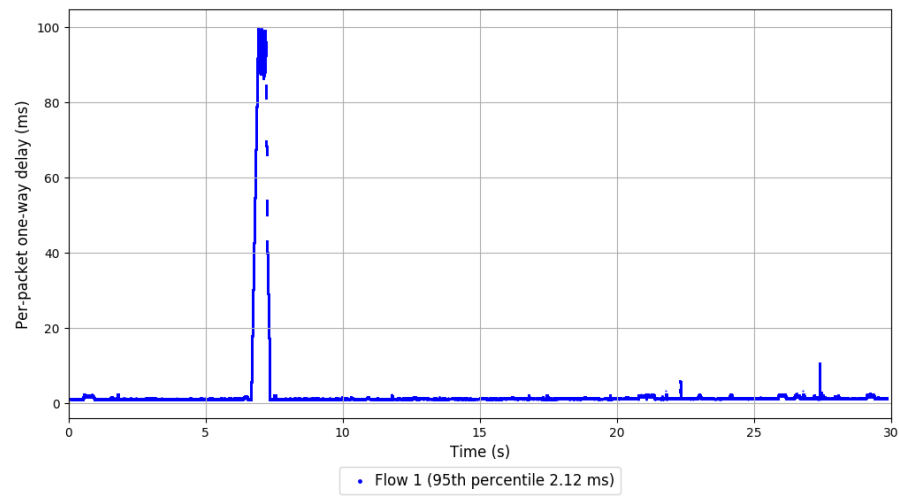
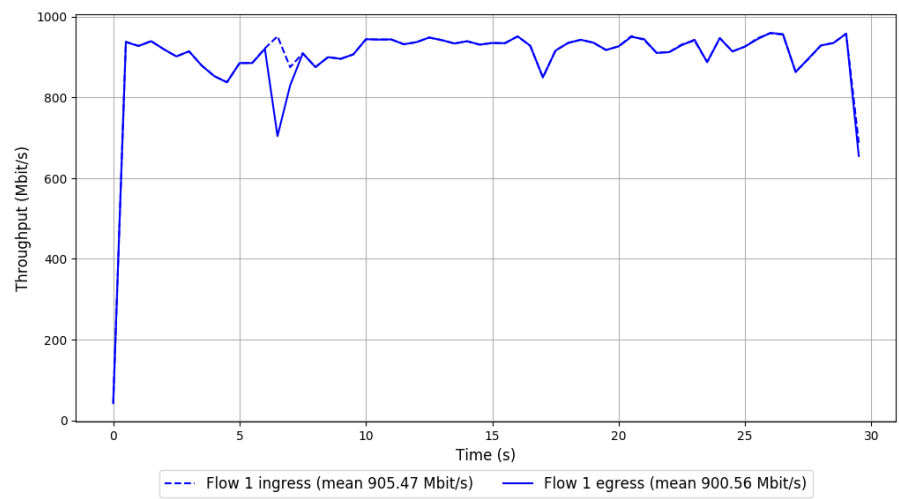
-- Flow 1:

Average throughput: 900.56 Mbit/s

95th percentile per-packet one-way delay: 2.124 ms

Loss rate: 0.61%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 05:41:39

End at: 2018-04-24 05:42:09

Local clock offset: -1.875 ms

Remote clock offset: -5.067 ms

# Below is generated by plot.py at 2018-04-24 14:19:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 732.95 Mbit/s

95th percentile per-packet one-way delay: 4.277 ms

Loss rate: 0.15%

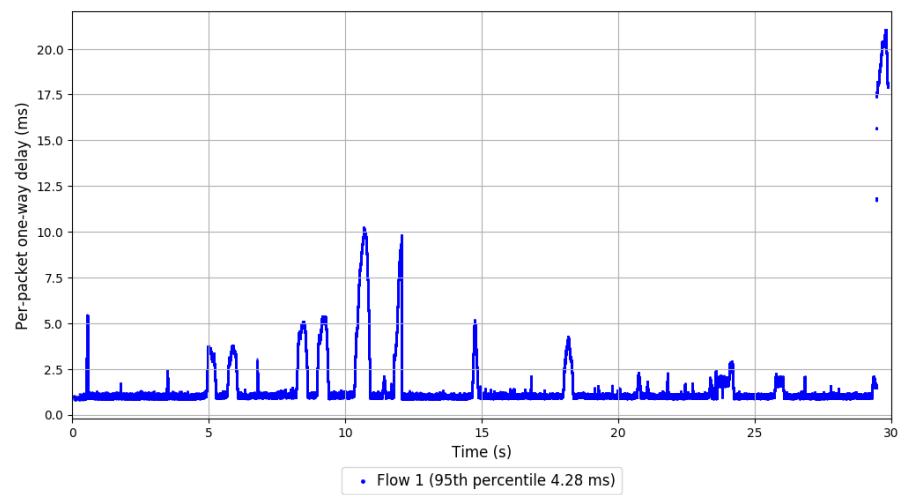
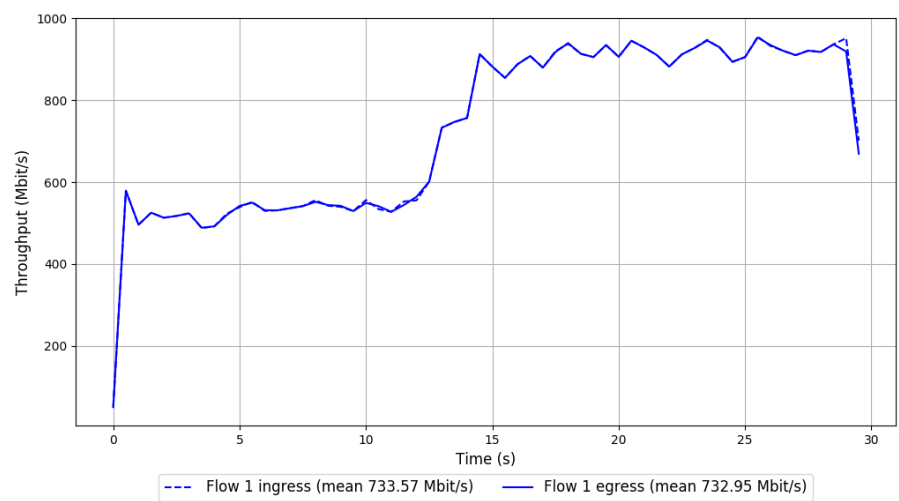
-- Flow 1:

Average throughput: 732.95 Mbit/s

95th percentile per-packet one-way delay: 4.277 ms

Loss rate: 0.15%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 06:06:53

End at: 2018-04-24 06:07:23

Local clock offset: -3.252 ms

Remote clock offset: -6.136 ms

# Below is generated by plot.py at 2018-04-24 14:24:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 885.94 Mbit/s

95th percentile per-packet one-way delay: 56.163 ms

Loss rate: 3.28%

-- Flow 1:

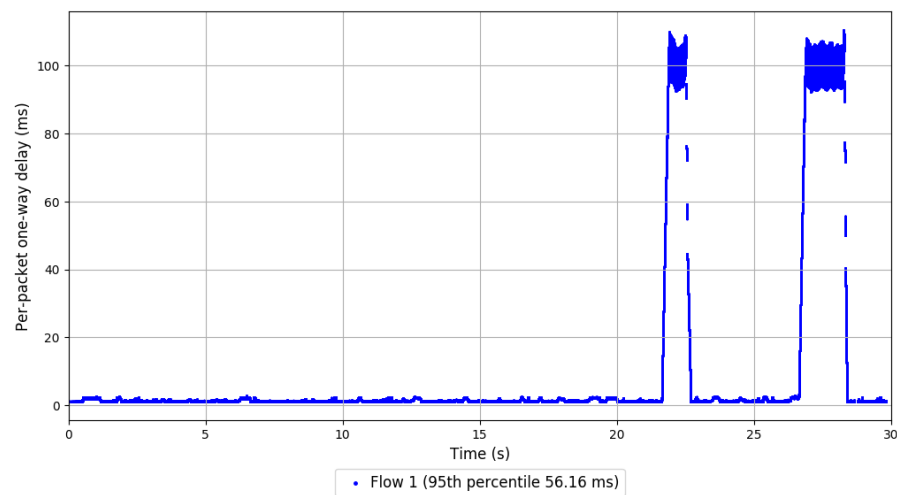
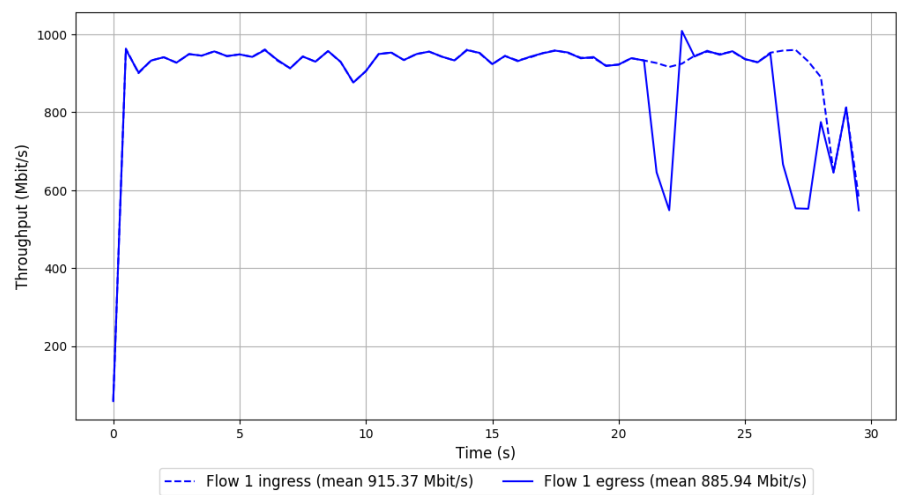
Average throughput: 885.94 Mbit/s

95th percentile per-packet one-way delay: 56.163 ms

Loss rate: 3.28%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 06:32:10

End at: 2018-04-24 06:32:40

Local clock offset: -1.29 ms

Remote clock offset: -6.954 ms

# Below is generated by plot.py at 2018-04-24 14:24:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 911.62 Mbit/s

95th percentile per-packet one-way delay: 2.075 ms

Loss rate: 1.17%

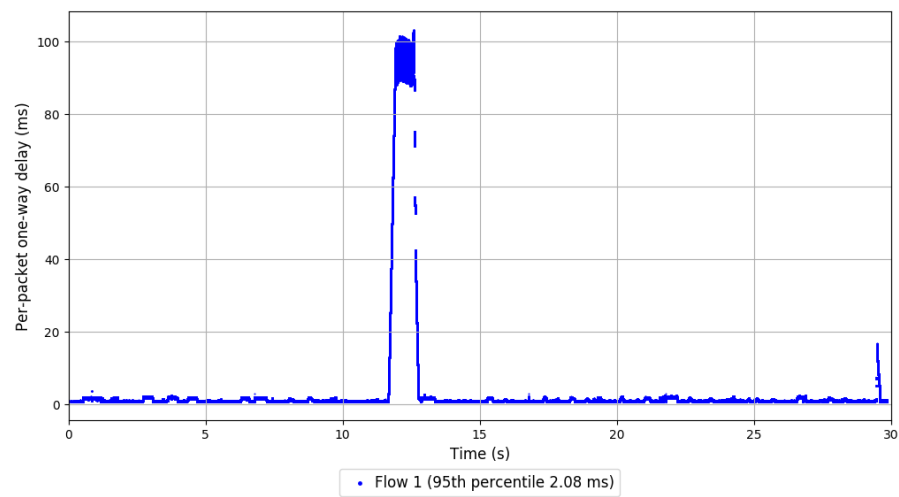
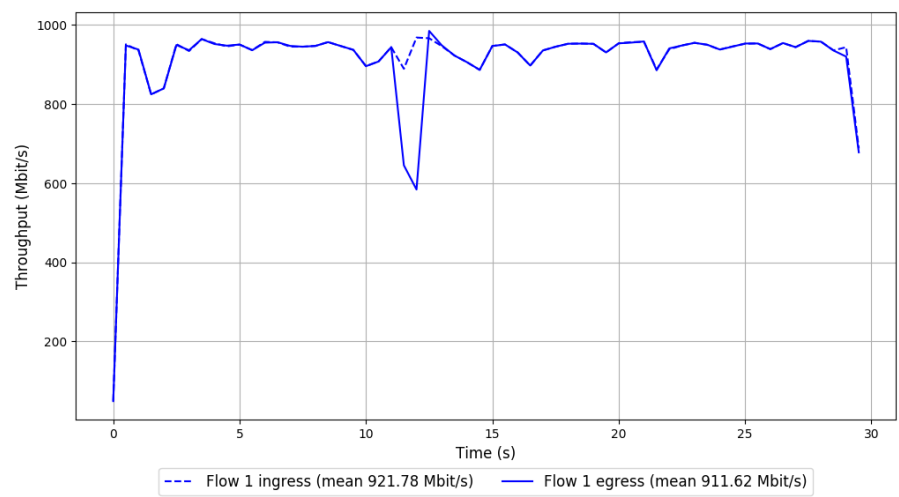
-- Flow 1:

Average throughput: 911.62 Mbit/s

95th percentile per-packet one-way delay: 2.075 ms

Loss rate: 1.17%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 06:57:37

End at: 2018-04-24 06:58:07

Local clock offset: 0.426 ms

Remote clock offset: -7.456 ms

# Below is generated by plot.py at 2018-04-24 14:24:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 821.91 Mbit/s

95th percentile per-packet one-way delay: 2.587 ms

Loss rate: 1.45%

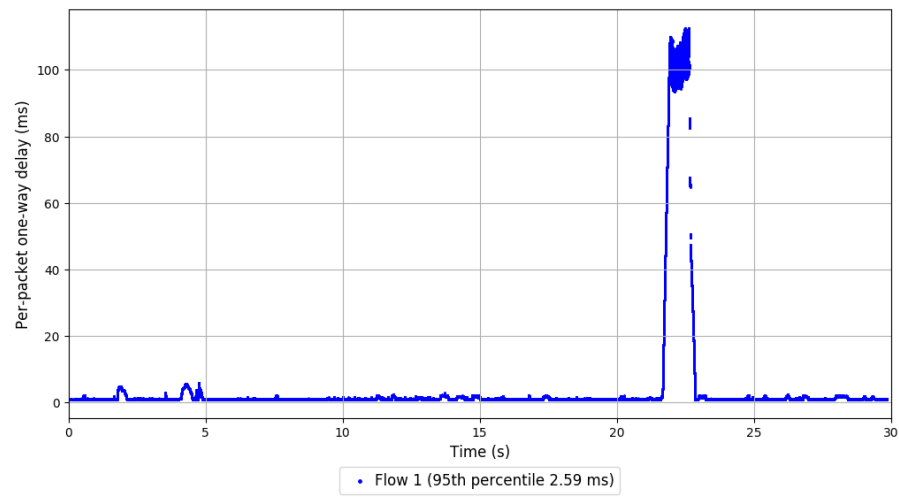
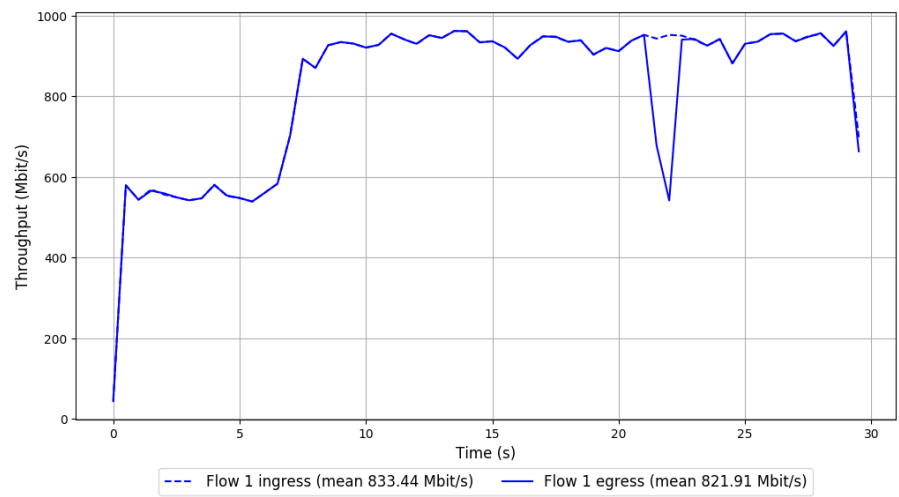
-- Flow 1:

Average throughput: 821.91 Mbit/s

95th percentile per-packet one-way delay: 2.587 ms

Loss rate: 1.45%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 07:23:00

End at: 2018-04-24 07:23:30

Local clock offset: 0.628 ms

Remote clock offset: -5.342 ms

# Below is generated by plot.py at 2018-04-24 14:25:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 905.58 Mbit/s

95th percentile per-packet one-way delay: 2.688 ms

Loss rate: 0.07%

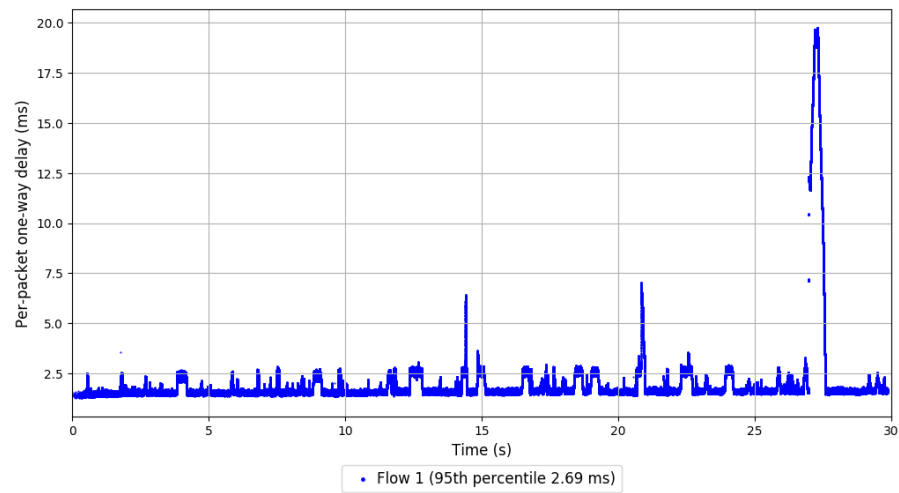
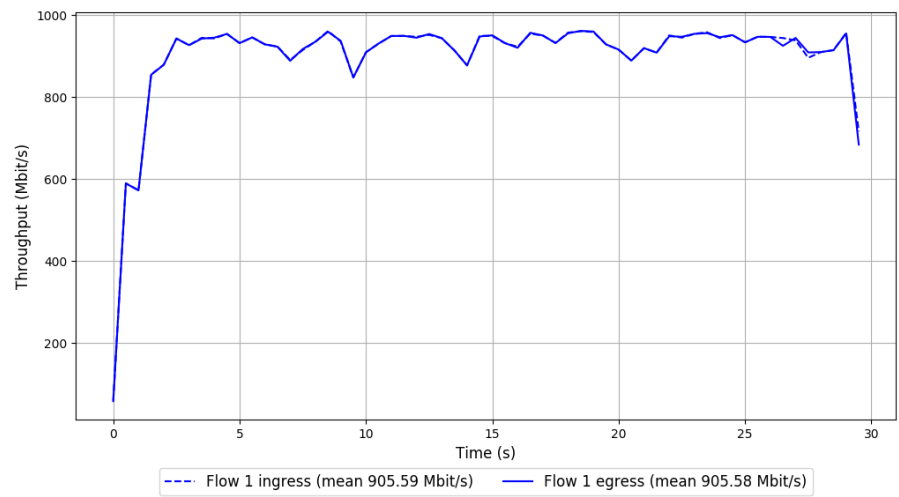
-- Flow 1:

Average throughput: 905.58 Mbit/s

95th percentile per-packet one-way delay: 2.688 ms

Loss rate: 0.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 07:48:20

End at: 2018-04-24 07:48:50

Local clock offset: -1.337 ms

Remote clock offset: -5.709 ms

# Below is generated by plot.py at 2018-04-24 14:25:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 836.61 Mbit/s

95th percentile per-packet one-way delay: 2.298 ms

Loss rate: 0.07%

-- Flow 1:

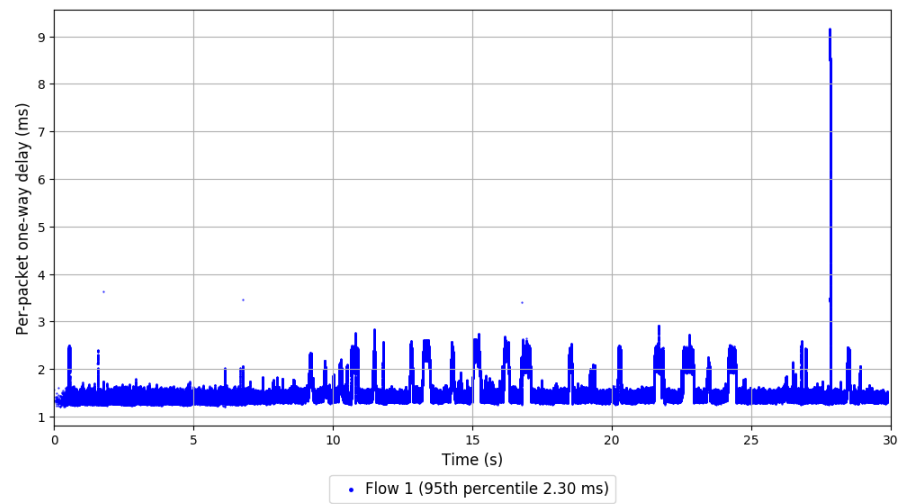
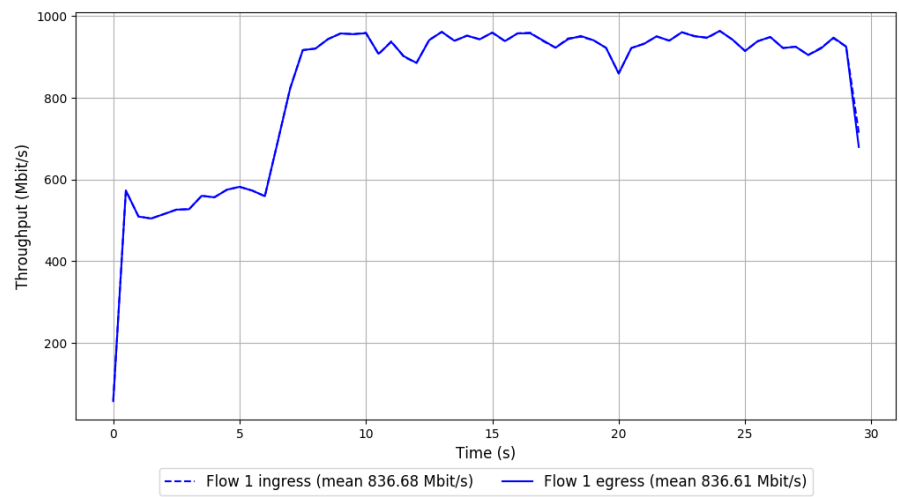
Average throughput: 836.61 Mbit/s

95th percentile per-packet one-way delay: 2.298 ms

Loss rate: 0.07%



Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 08:13:39

End at: 2018-04-24 08:14:09

Local clock offset: -1.053 ms

Remote clock offset: -6.221 ms

# Below is generated by plot.py at 2018-04-24 14:26:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 920.70 Mbit/s

95th percentile per-packet one-way delay: 2.241 ms

Loss rate: 0.07%

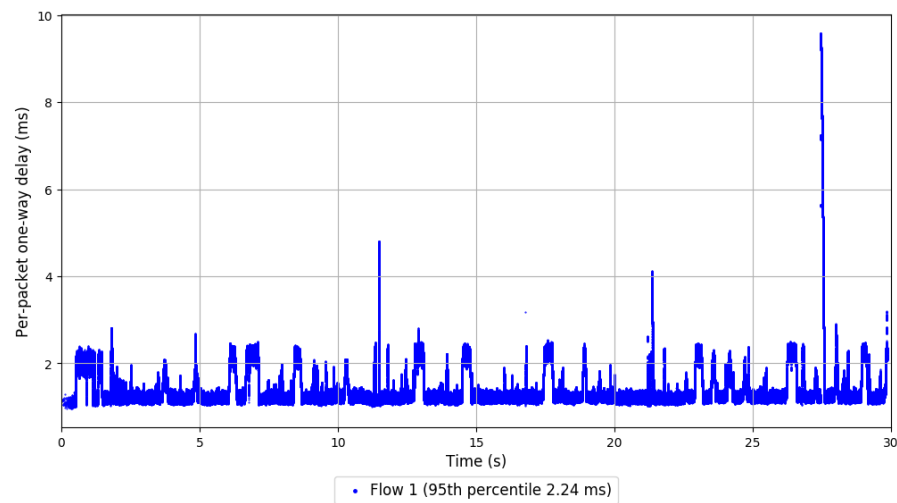
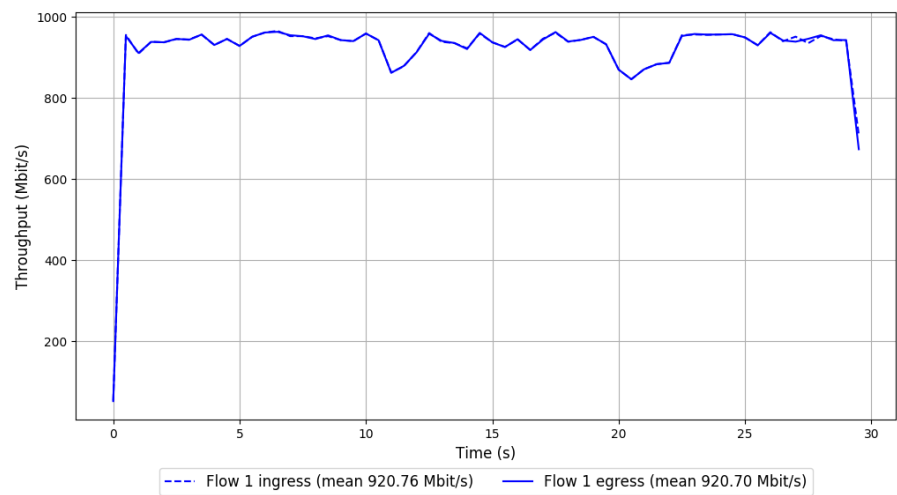
-- Flow 1:

Average throughput: 920.70 Mbit/s

95th percentile per-packet one-way delay: 2.241 ms

Loss rate: 0.07%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 08:38:56

End at: 2018-04-24 08:39:26

Local clock offset: -0.652 ms

Remote clock offset: -6.302 ms

# Below is generated by plot.py at 2018-04-24 14:34:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 908.83 Mbit/s

95th percentile per-packet one-way delay: 3.495 ms

Loss rate: 1.22%

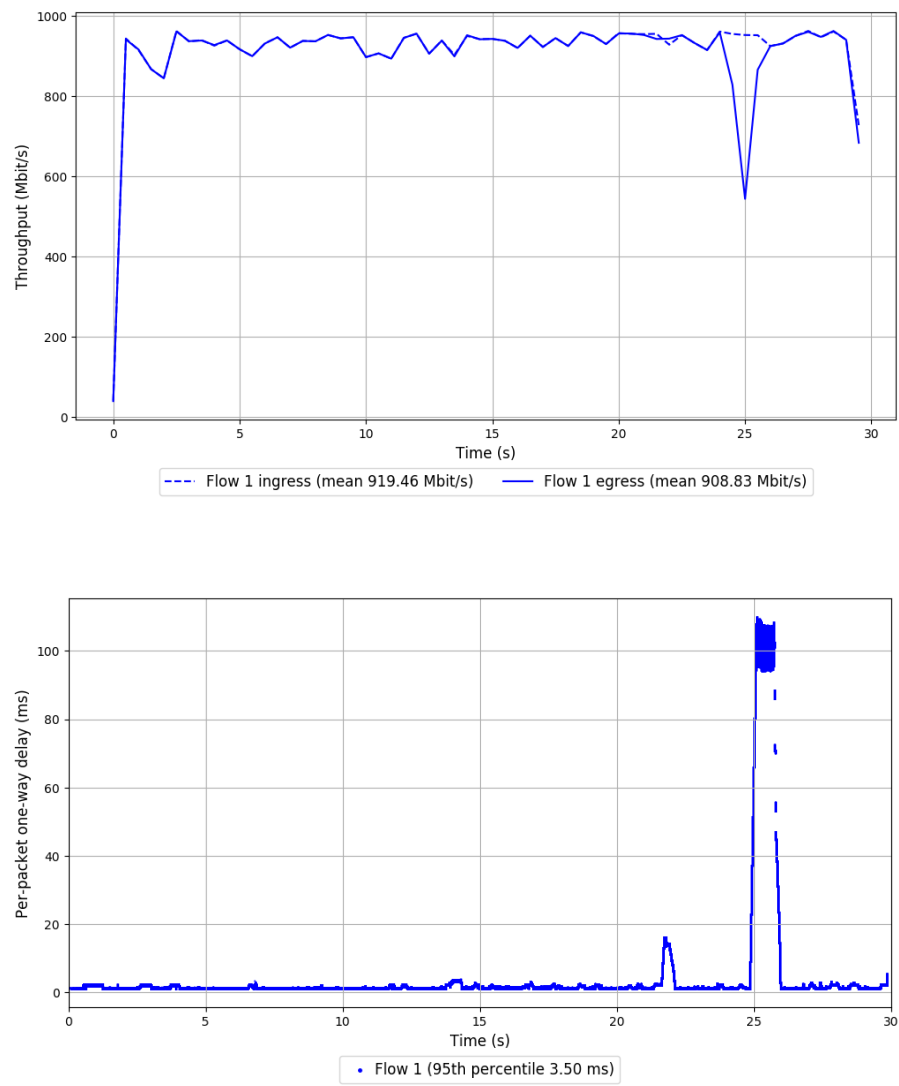
-- Flow 1:

Average throughput: 908.83 Mbit/s

95th percentile per-packet one-way delay: 3.495 ms

Loss rate: 1.22%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 09:04:07

End at: 2018-04-24 09:04:37

Local clock offset: -0.682 ms

Remote clock offset: -5.439 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 904.47 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 1.81%

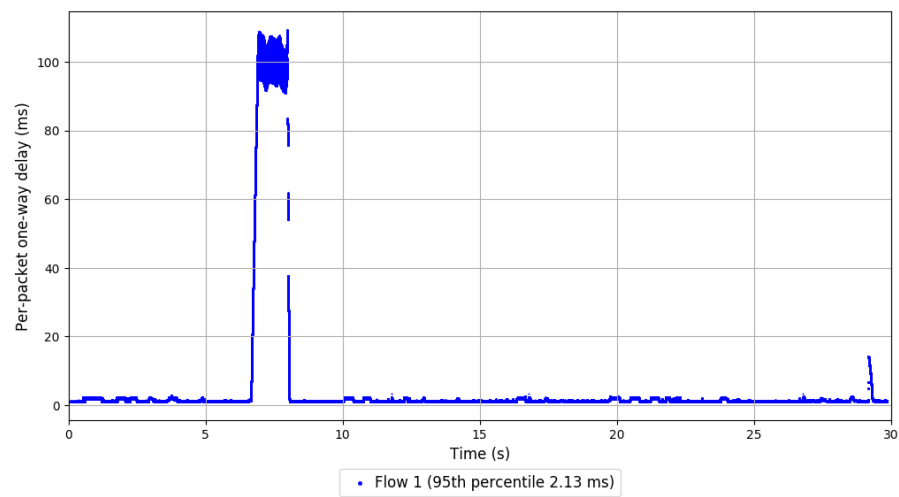
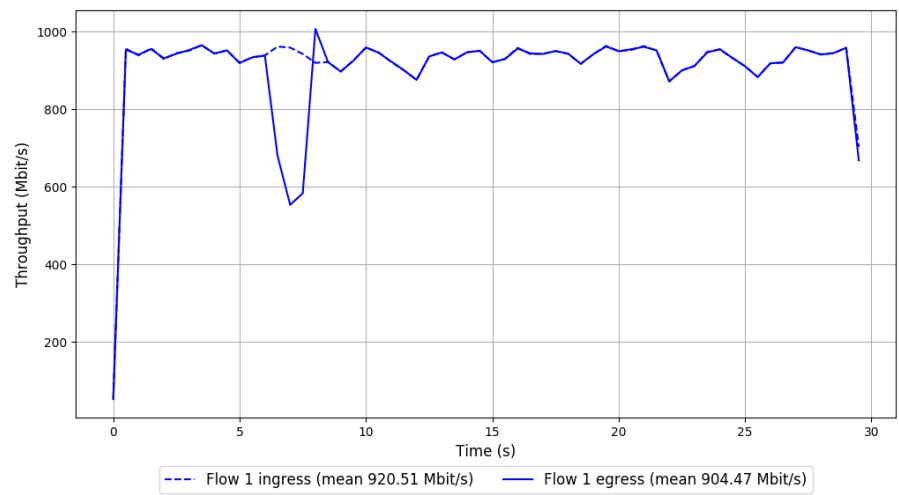
-- Flow 1:

Average throughput: 904.47 Mbit/s

95th percentile per-packet one-way delay: 2.130 ms

Loss rate: 1.81%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 05:08:57

End at: 2018-04-24 05:09:27

Local clock offset: -0.179 ms

Remote clock offset: -5.341 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.05 Mbit/s

95th percentile per-packet one-way delay: 0.826 ms

Loss rate: 0.08%

-- Flow 1:

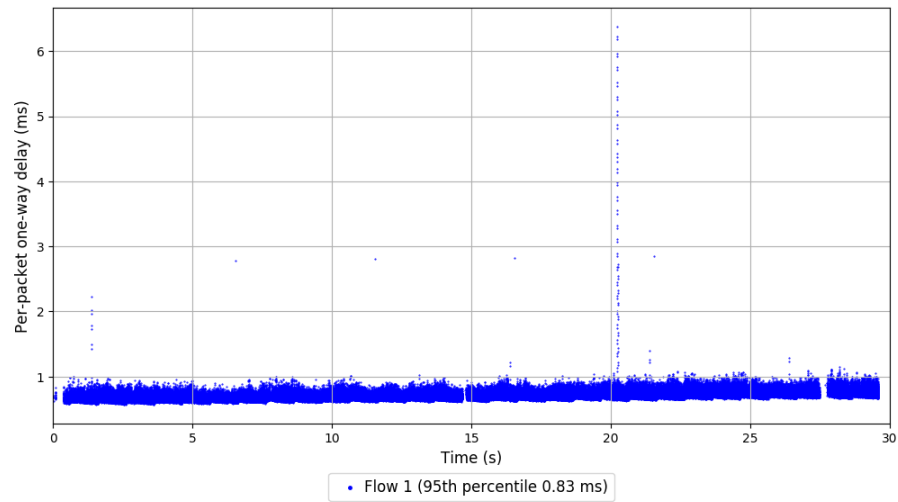
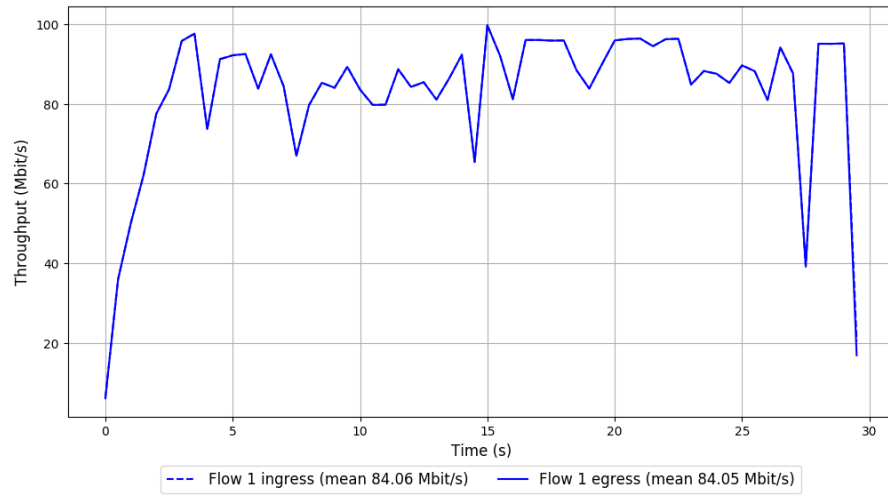
Average throughput: 84.05 Mbit/s

95th percentile per-packet one-way delay: 0.826 ms

Loss rate: 0.08%



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

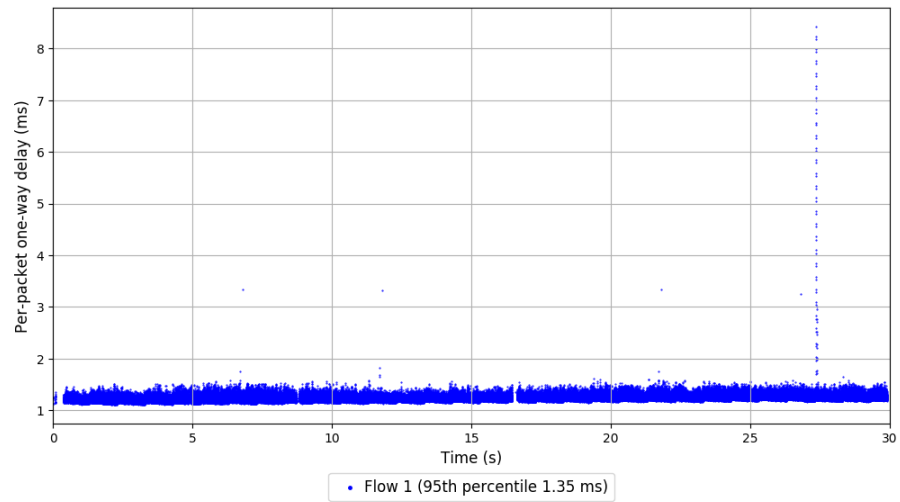
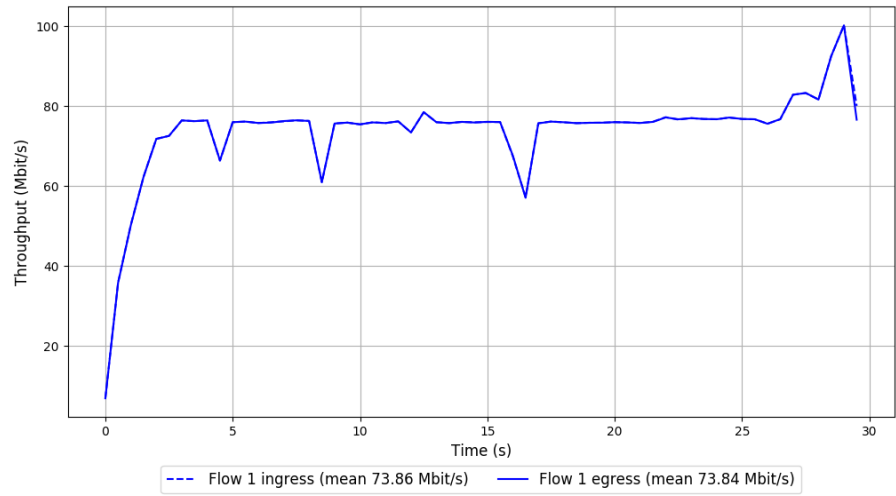


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 05:34:30  
End at: 2018-04-24 05:35:00  
Local clock offset: -1.833 ms  
Remote clock offset: -5.213 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.84 Mbit/s  
95th percentile per-packet one-way delay: 1.350 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 73.84 Mbit/s  
95th percentile per-packet one-way delay: 1.350 ms  
Loss rate: 0.08%

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



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 05:59:52

End at: 2018-04-24 06:00:22

Local clock offset: -2.559 ms

Remote clock offset: -5.33 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.15 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.08%

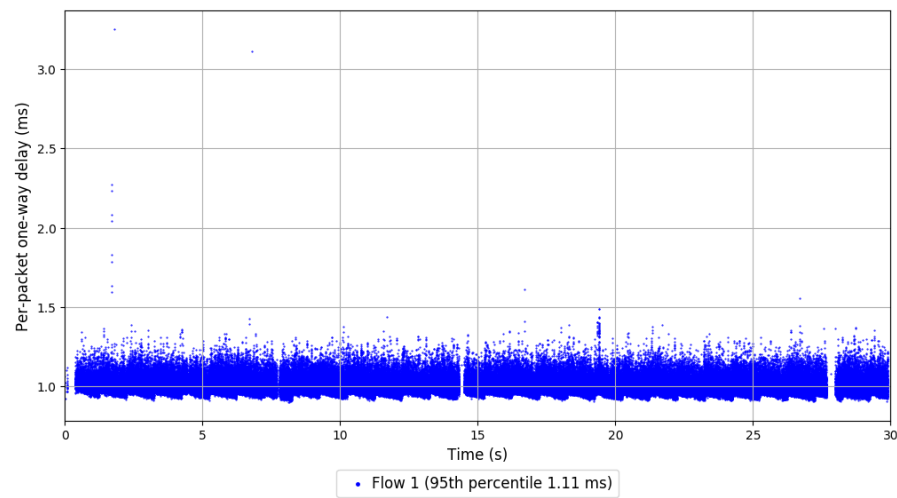
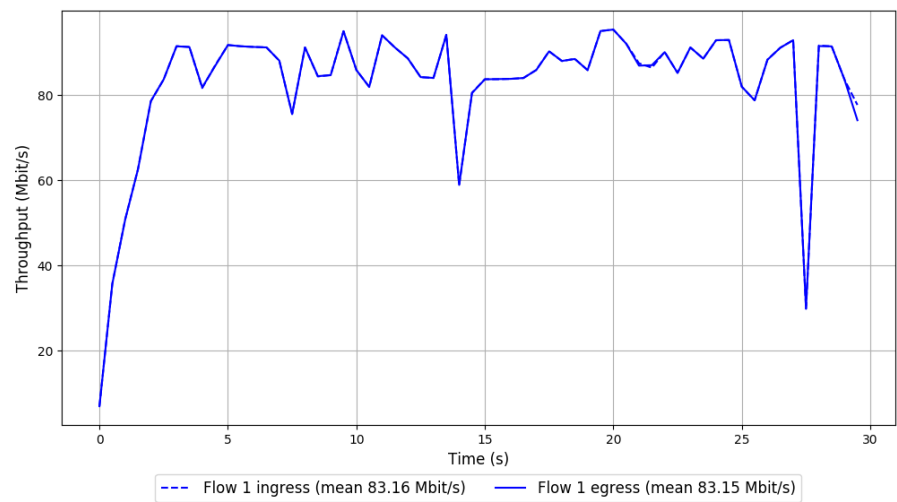
-- Flow 1:

Average throughput: 83.15 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.08%

Run 3: Report of QUIC Cubic — Data Link

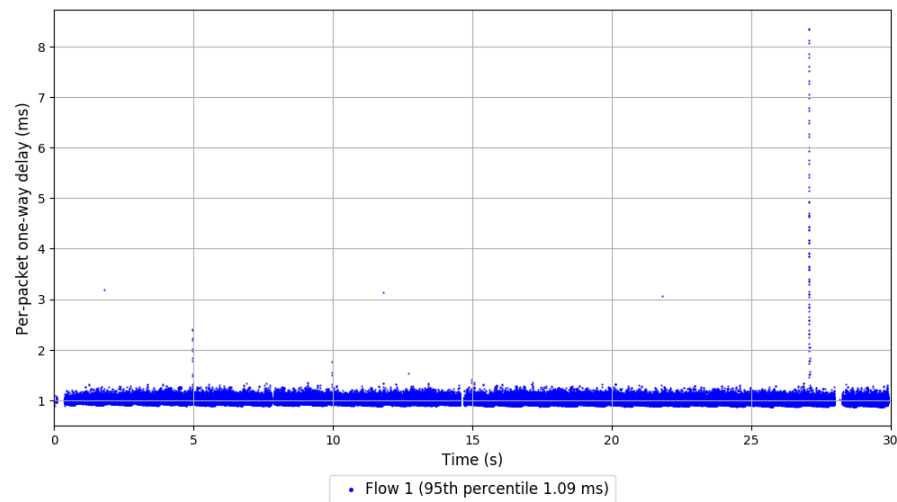
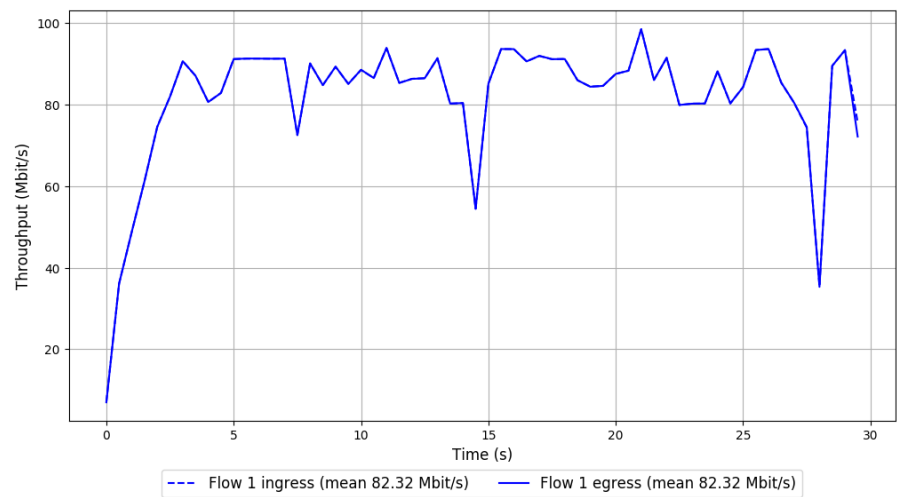


Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 06:25:11  
End at: 2018-04-24 06:25:41  
Local clock offset: -1.303 ms  
Remote clock offset: -6.855 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.32 Mbit/s  
95th percentile per-packet one-way delay: 1.093 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 82.32 Mbit/s  
95th percentile per-packet one-way delay: 1.093 ms  
Loss rate: 0.08%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 06:50:29

End at: 2018-04-24 06:50:59

Local clock offset: -0.628 ms

Remote clock offset: -7.373 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.54 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.06%

-- Flow 1:

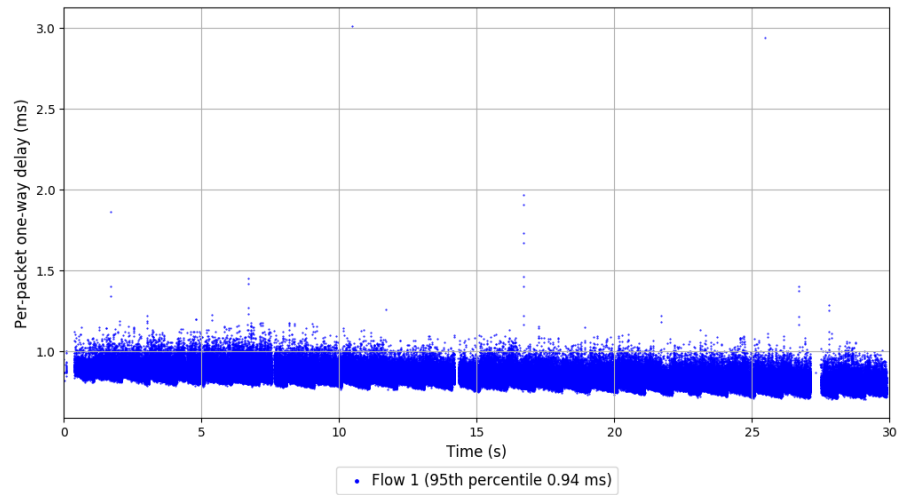
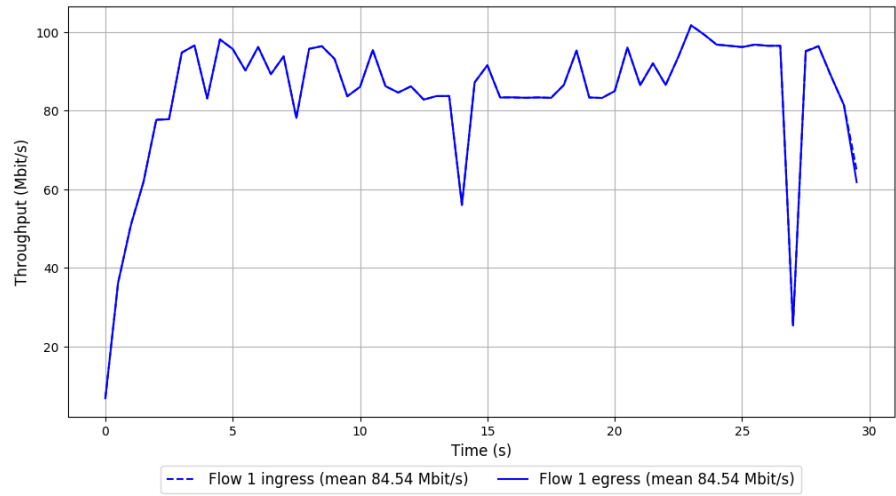
Average throughput: 84.54 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.06%



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



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 07:15:55

End at: 2018-04-24 07:16:25

Local clock offset: 0.785 ms

Remote clock offset: -5.825 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.86 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.06%

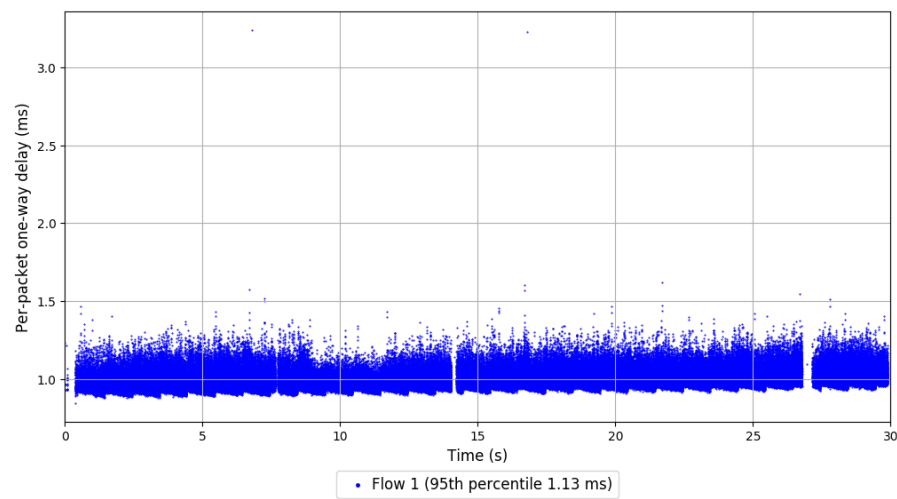
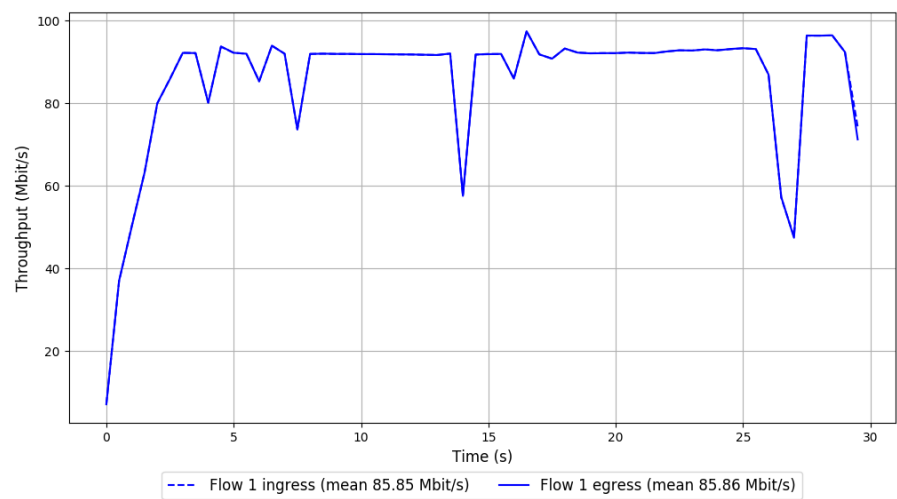
-- Flow 1:

Average throughput: 85.86 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.06%

Run 6: Report of QUIC Cubic — Data Link

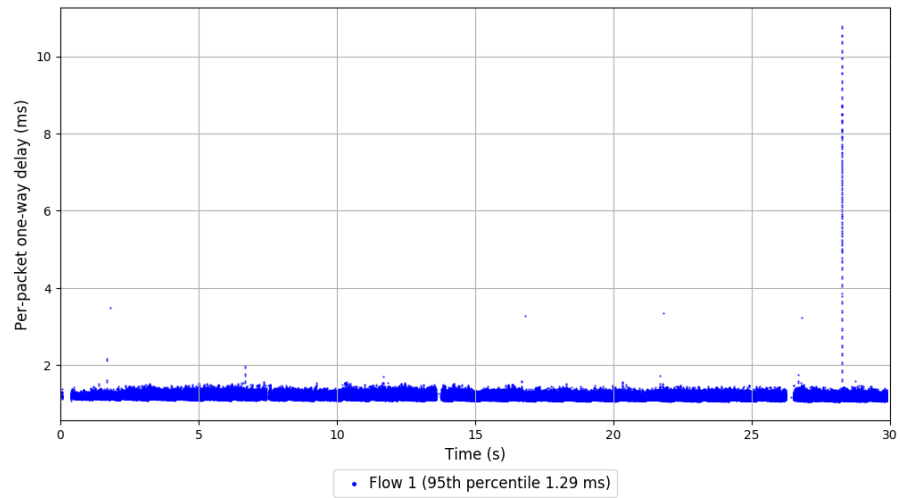
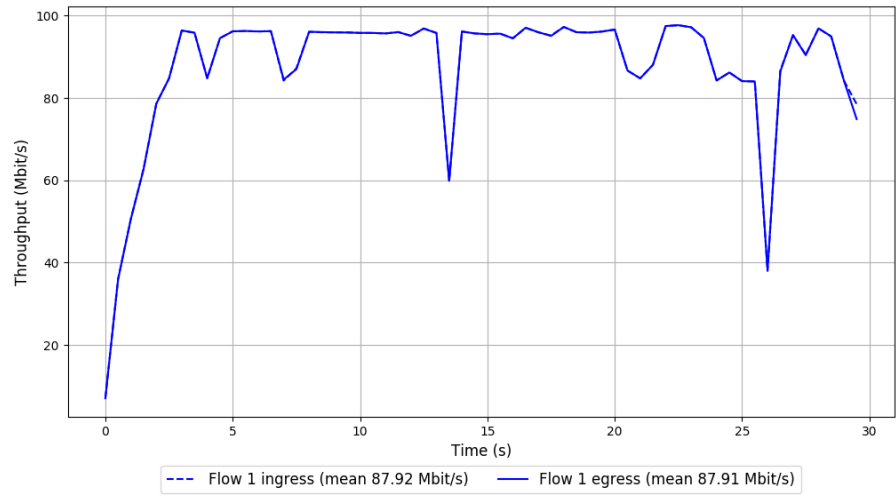


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 07:41:13  
End at: 2018-04-24 07:41:43  
Local clock offset: -1.078 ms  
Remote clock offset: -4.969 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.91 Mbit/s  
95th percentile per-packet one-way delay: 1.292 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 87.91 Mbit/s  
95th percentile per-packet one-way delay: 1.292 ms  
Loss rate: 0.07%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 08:06:31

End at: 2018-04-24 08:07:01

Local clock offset: -1.208 ms

Remote clock offset: -6.235 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.07%

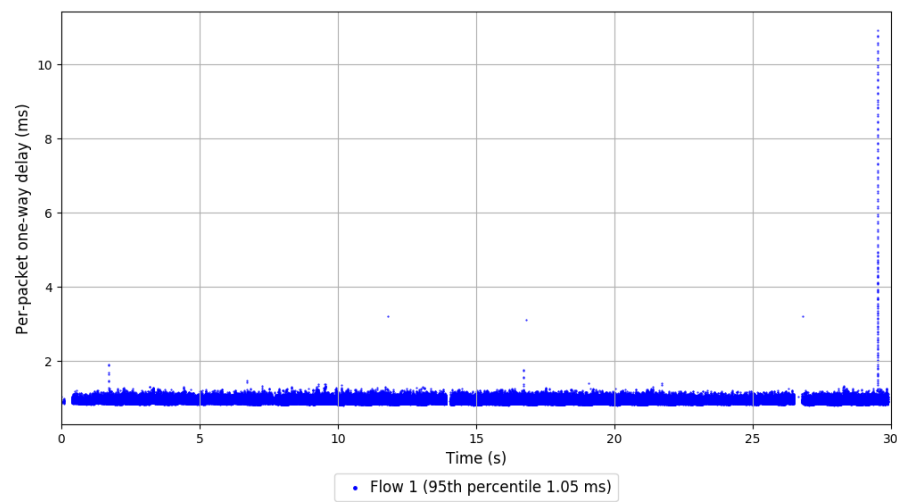
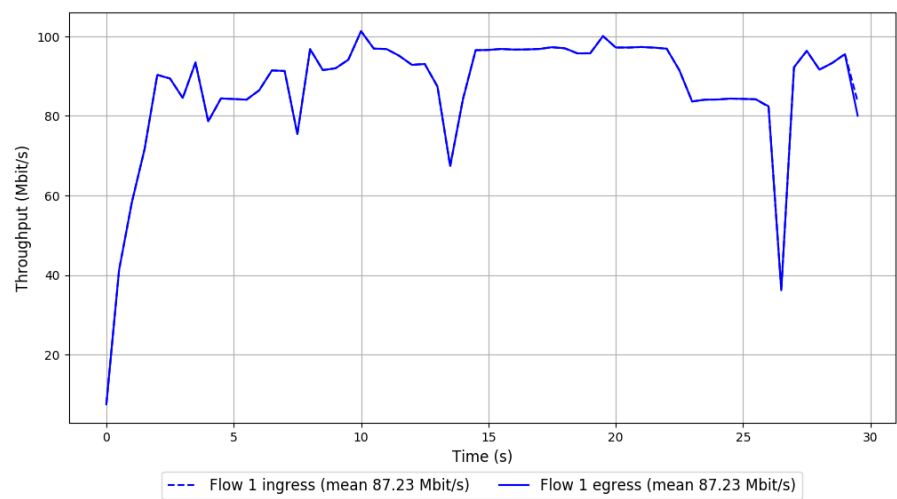
-- Flow 1:

Average throughput: 87.23 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.07%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 08:31:48

End at: 2018-04-24 08:32:18

Local clock offset: -1.108 ms

Remote clock offset: -6.362 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.68 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.08%

-- Flow 1:

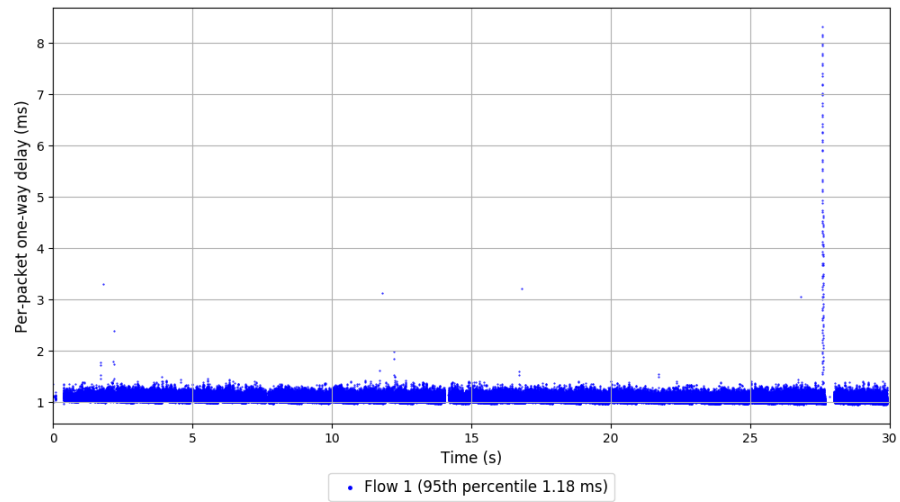
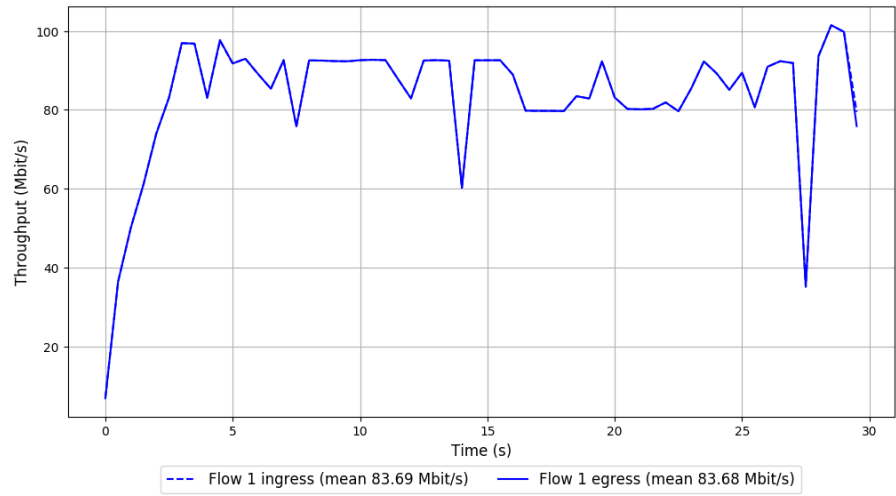
Average throughput: 83.68 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.08%



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



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 08:57:02

End at: 2018-04-24 08:57:32

Local clock offset: -0.749 ms

Remote clock offset: -5.7 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.12 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.01%

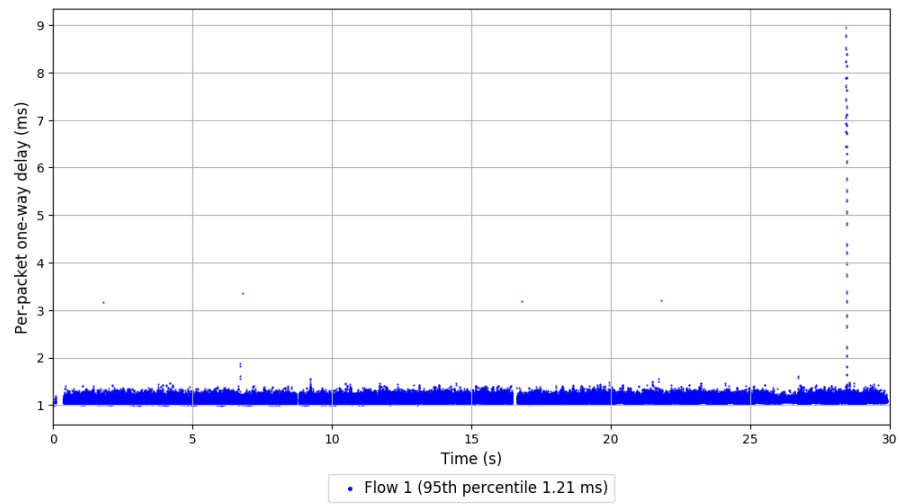
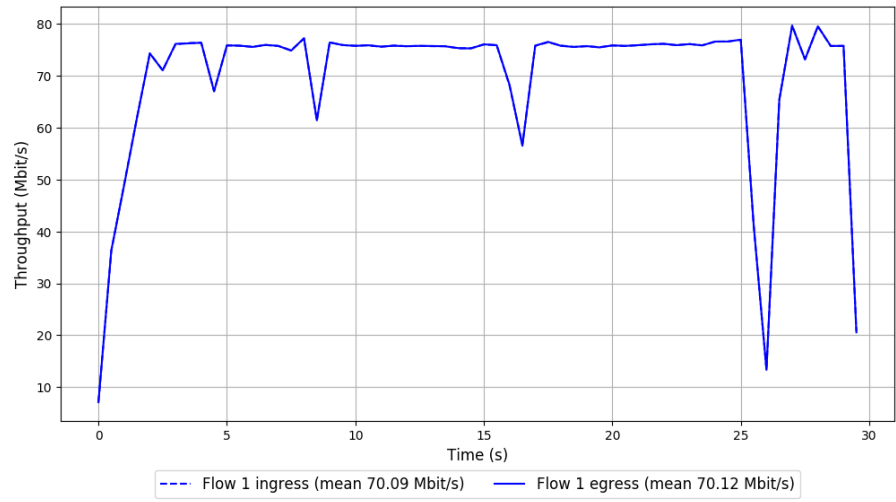
-- Flow 1:

Average throughput: 70.12 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.01%

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

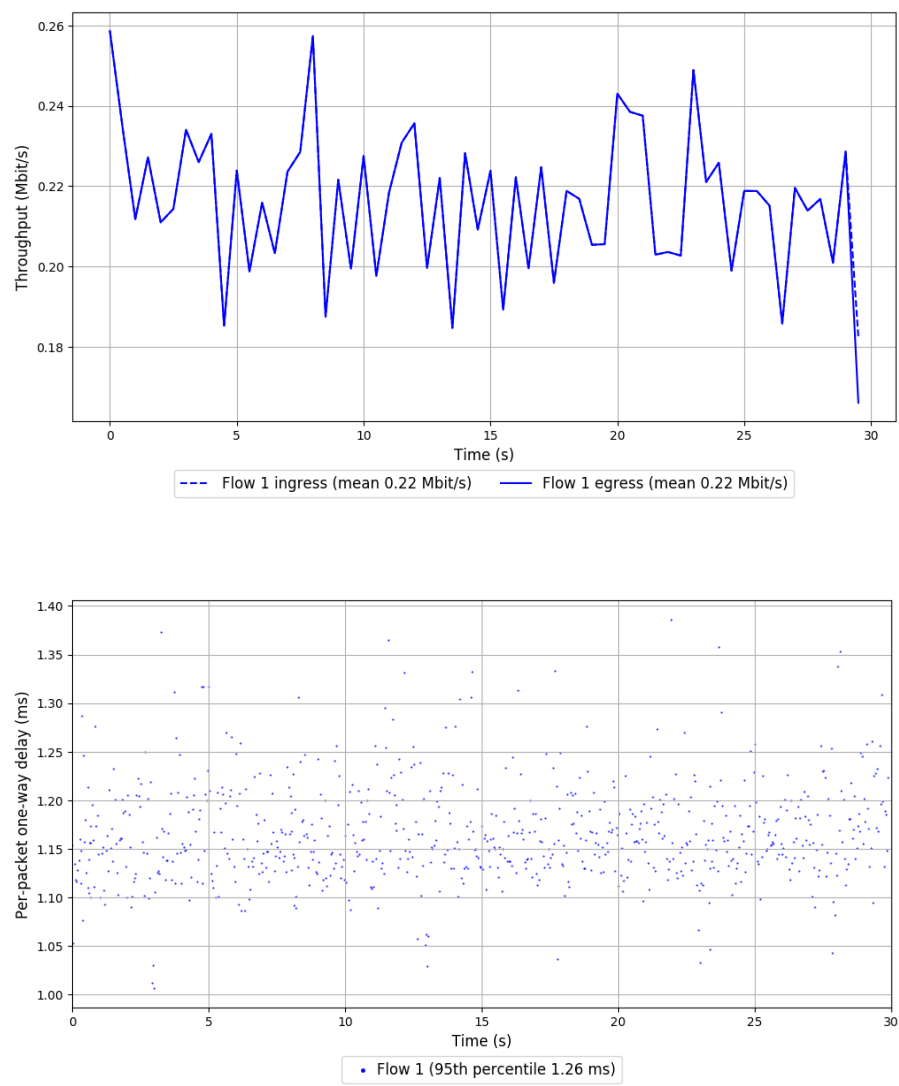


Run 1: Statistics of SCReAM

Start at: 2018-04-24 05:13:20  
End at: 2018-04-24 05:13:50  
Local clock offset: -0.319 ms  
Remote clock offset: -5.275 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.256 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.256 ms  
Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-24 05:38:53

End at: 2018-04-24 05:39:23

Local clock offset: -2.243 ms

Remote clock offset: -5.14 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.13%

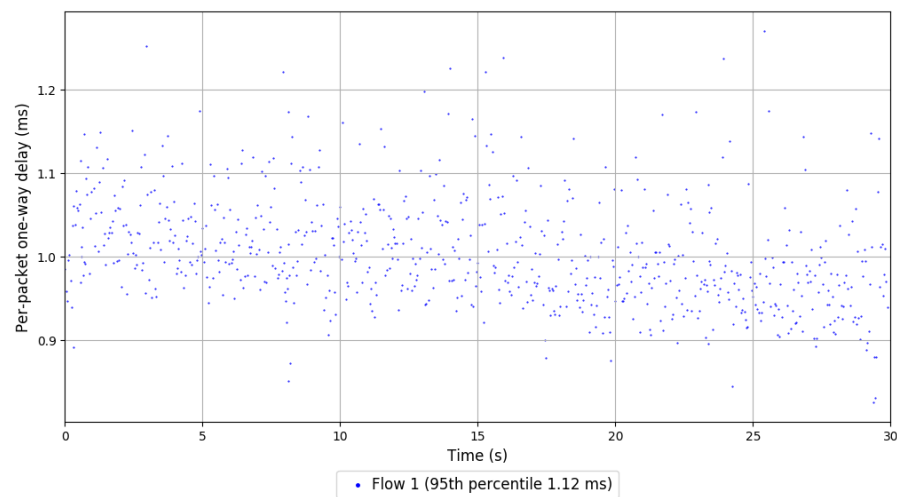
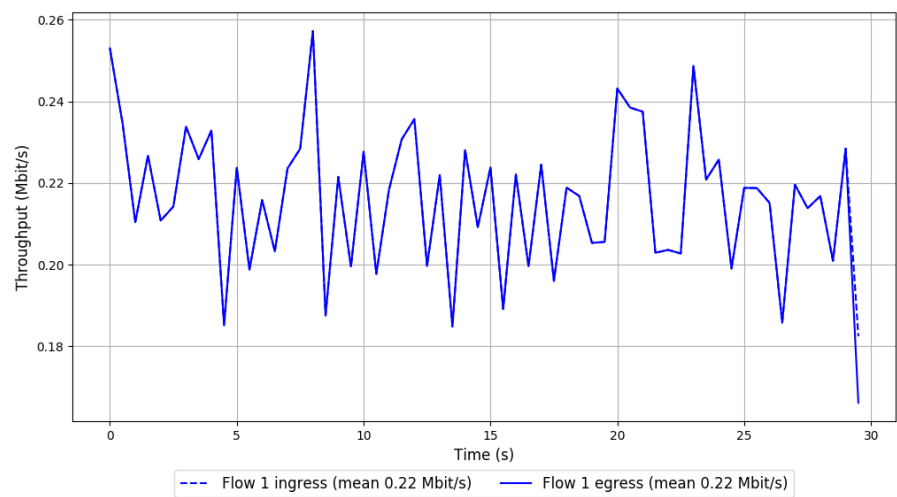
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



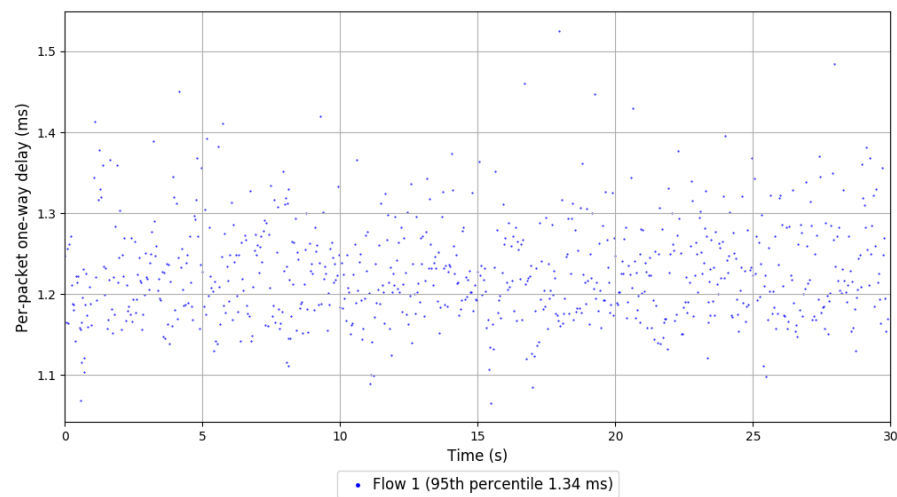
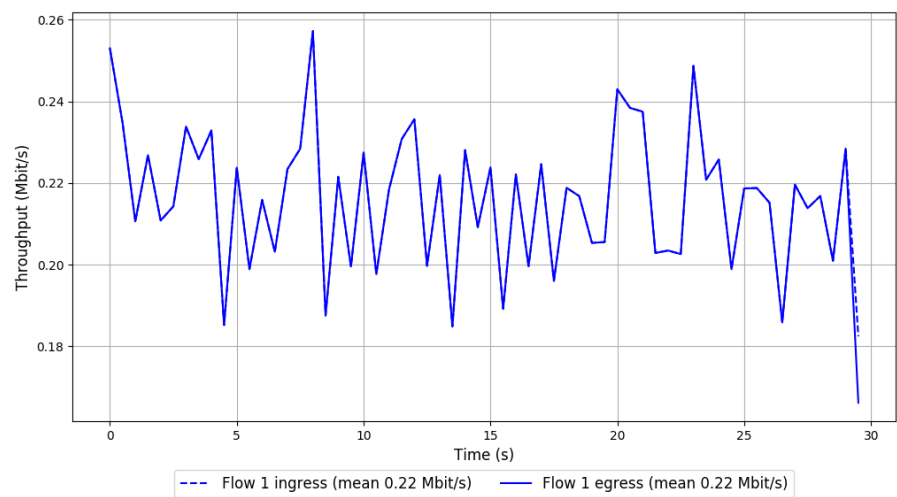
Run 3: Statistics of SCReAM

Start at: 2018-04-24 06:04:07  
End at: 2018-04-24 06:04:37  
Local clock offset: -2.969 ms  
Remote clock offset: -5.878 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.343 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.343 ms  
Loss rate: 0.13%



Run 3: Report of SReAM — Data Link

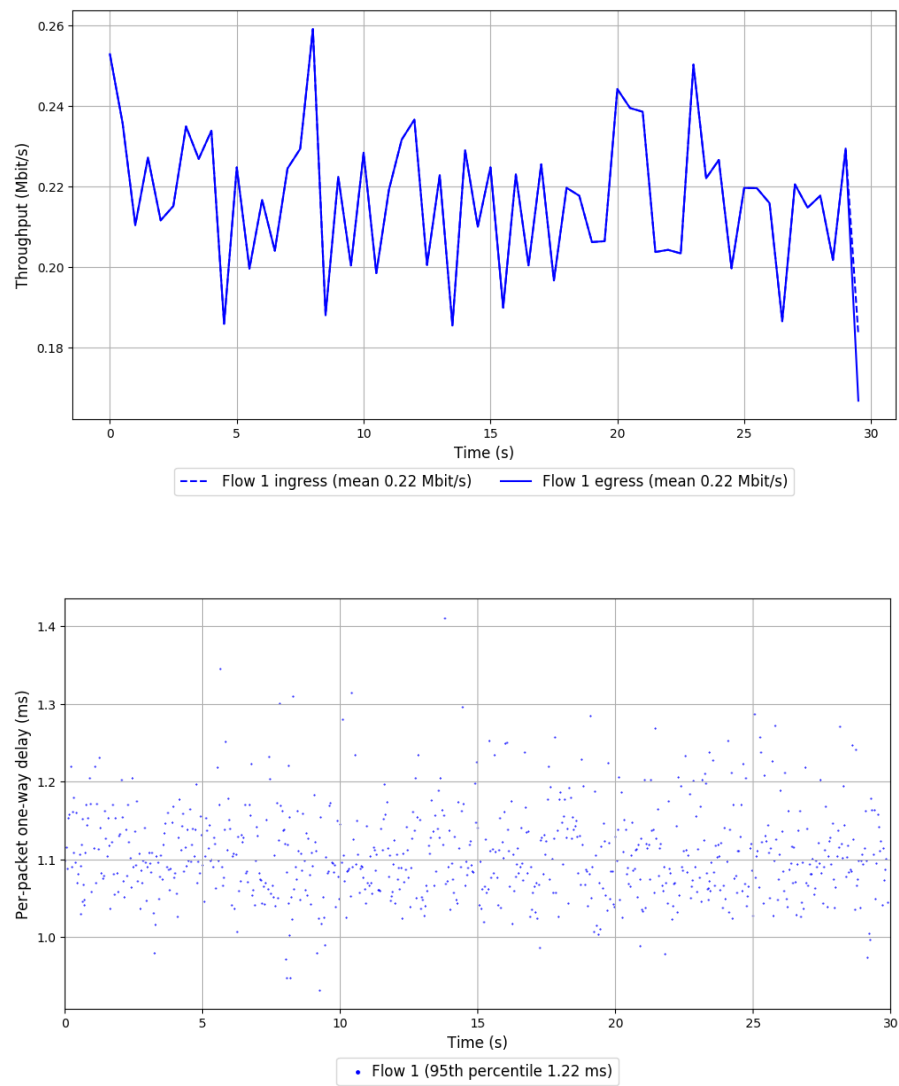


Run 4: Statistics of SCReAM

Start at: 2018-04-24 06:29:33  
End at: 2018-04-24 06:30:03  
Local clock offset: -1.259 ms  
Remote clock offset: -6.979 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.220 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.220 ms  
Loss rate: 0.13%

Run 4: Report of SReAM — Data Link

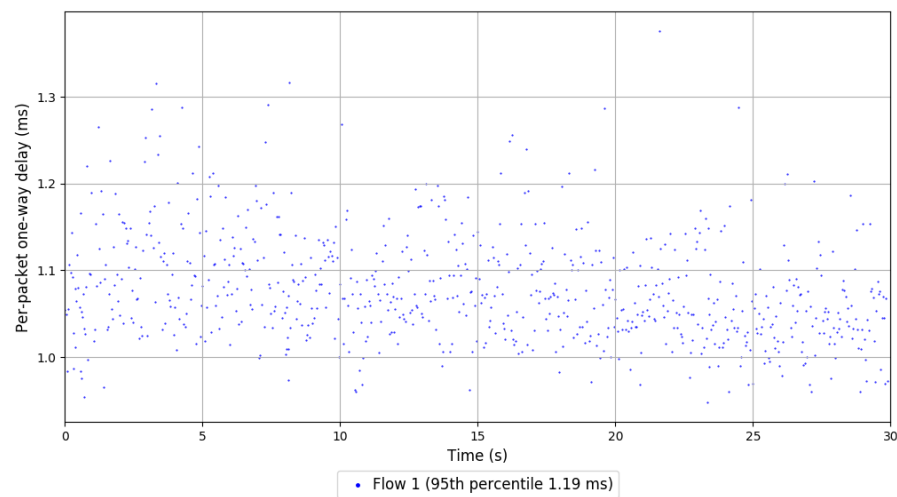
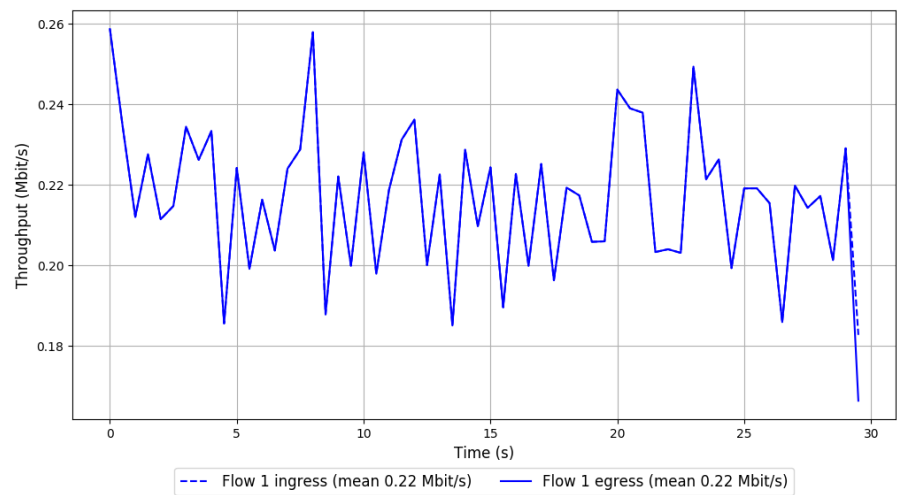


Run 5: Statistics of SCReAM

Start at: 2018-04-24 06:54:51  
End at: 2018-04-24 06:55:21  
Local clock offset: 0.152 ms  
Remote clock offset: -7.458 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.191 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.191 ms  
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

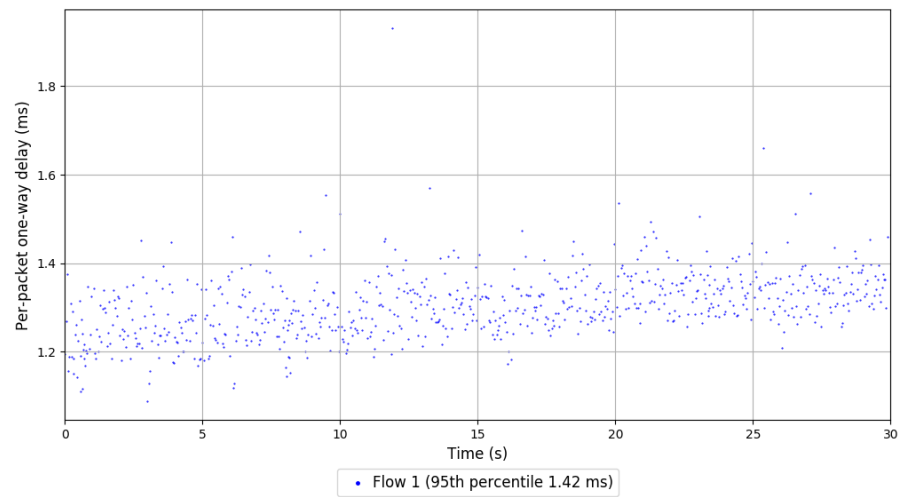
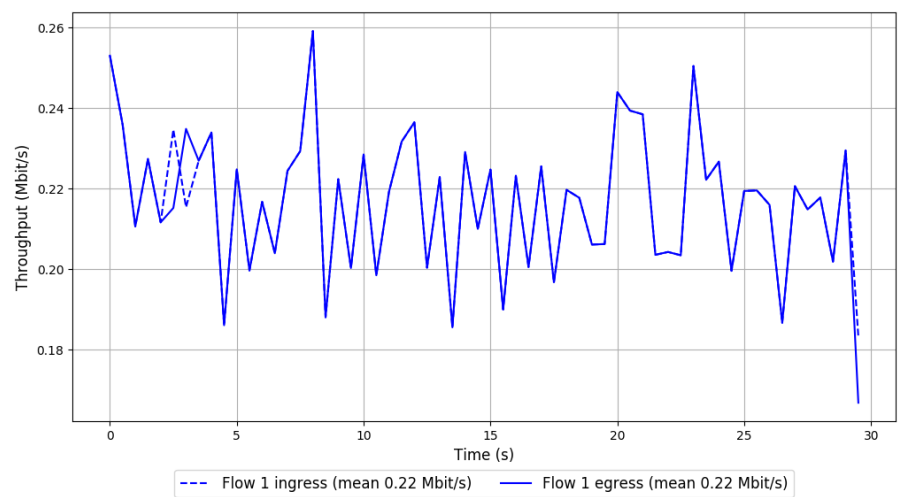


Run 6: Statistics of SCReAM

Start at: 2018-04-24 07:20:15  
End at: 2018-04-24 07:20:45  
Local clock offset: 0.752 ms  
Remote clock offset: -5.521 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.419 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.419 ms  
Loss rate: 0.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-24 07:45:35

End at: 2018-04-24 07:46:05

Local clock offset: -1.189 ms

Remote clock offset: -5.47 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.518 ms

Loss rate: 0.13%

-- Flow 1:

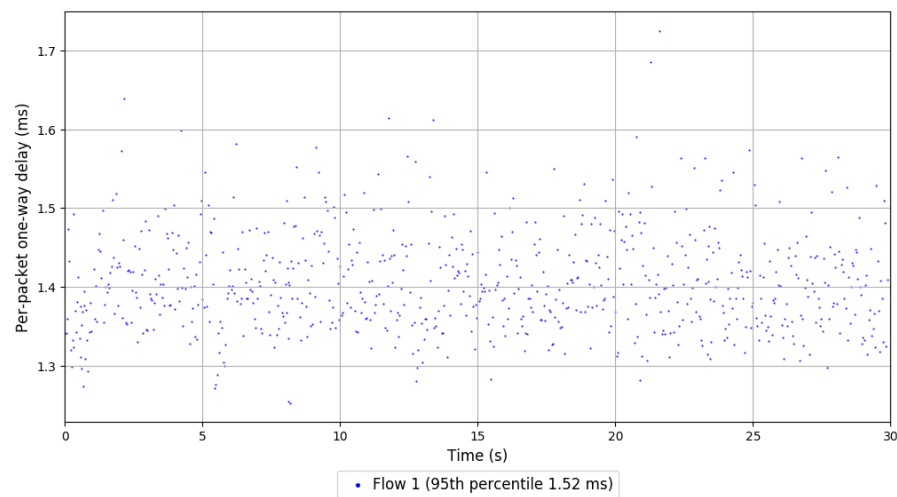
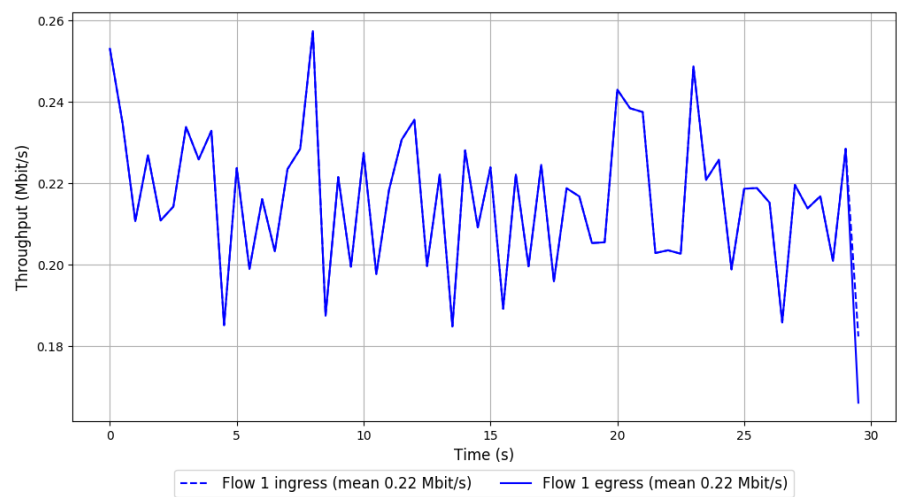
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.518 ms

Loss rate: 0.13%



Run 7: Report of SReAM — Data Link

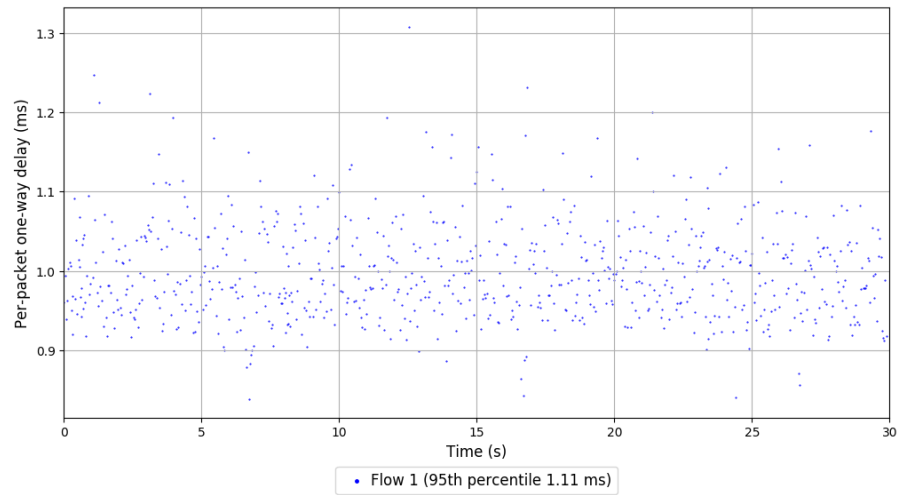
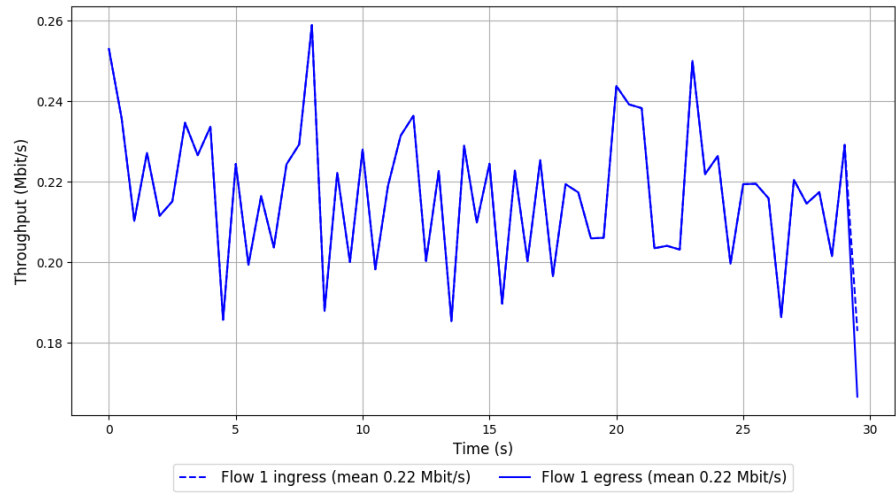


Run 8: Statistics of SCReAM

Start at: 2018-04-24 08:10:54  
End at: 2018-04-24 08:11:24  
Local clock offset: -1.216 ms  
Remote clock offset: -6.222 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.111 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.111 ms  
Loss rate: 0.13%

## Run 8: Report of SReAM — Data Link

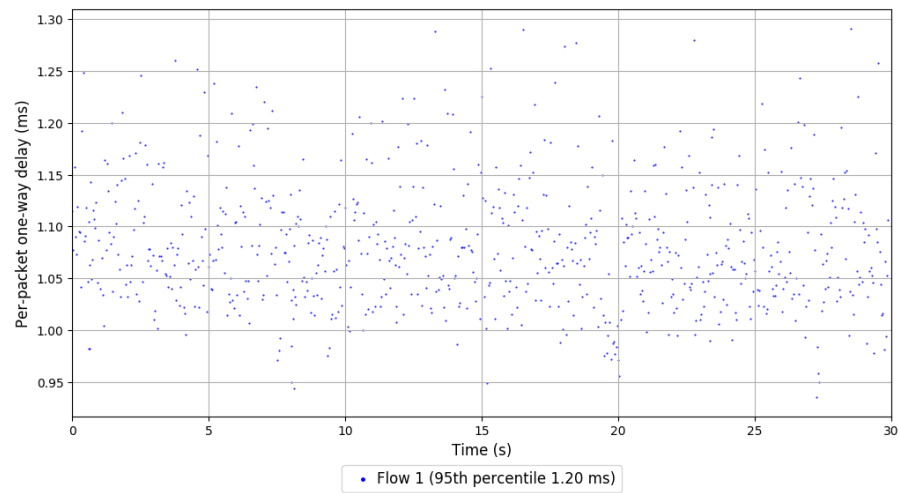
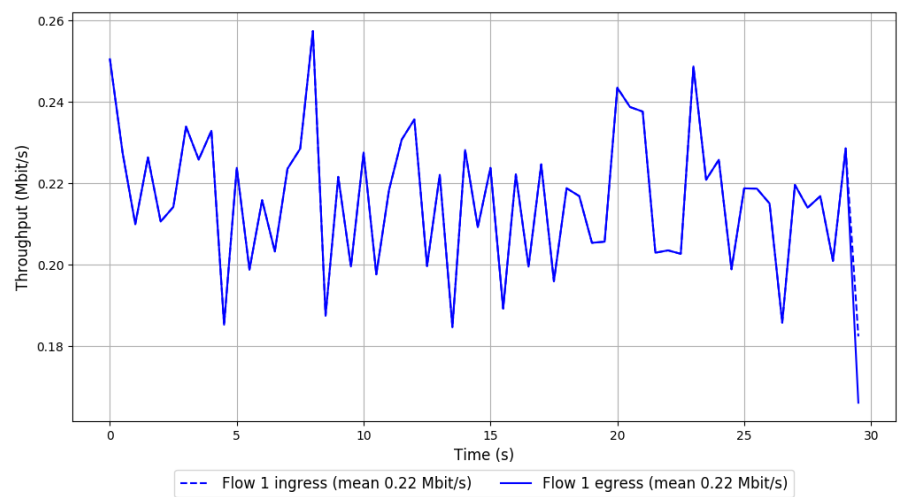


Run 9: Statistics of SCReAM

Start at: 2018-04-24 08:36:10  
End at: 2018-04-24 08:36:40  
Local clock offset: -0.994 ms  
Remote clock offset: -6.367 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.198 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.198 ms  
Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-24 09:01:22

End at: 2018-04-24 09:01:52

Local clock offset: -0.856 ms

Remote clock offset: -5.511 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

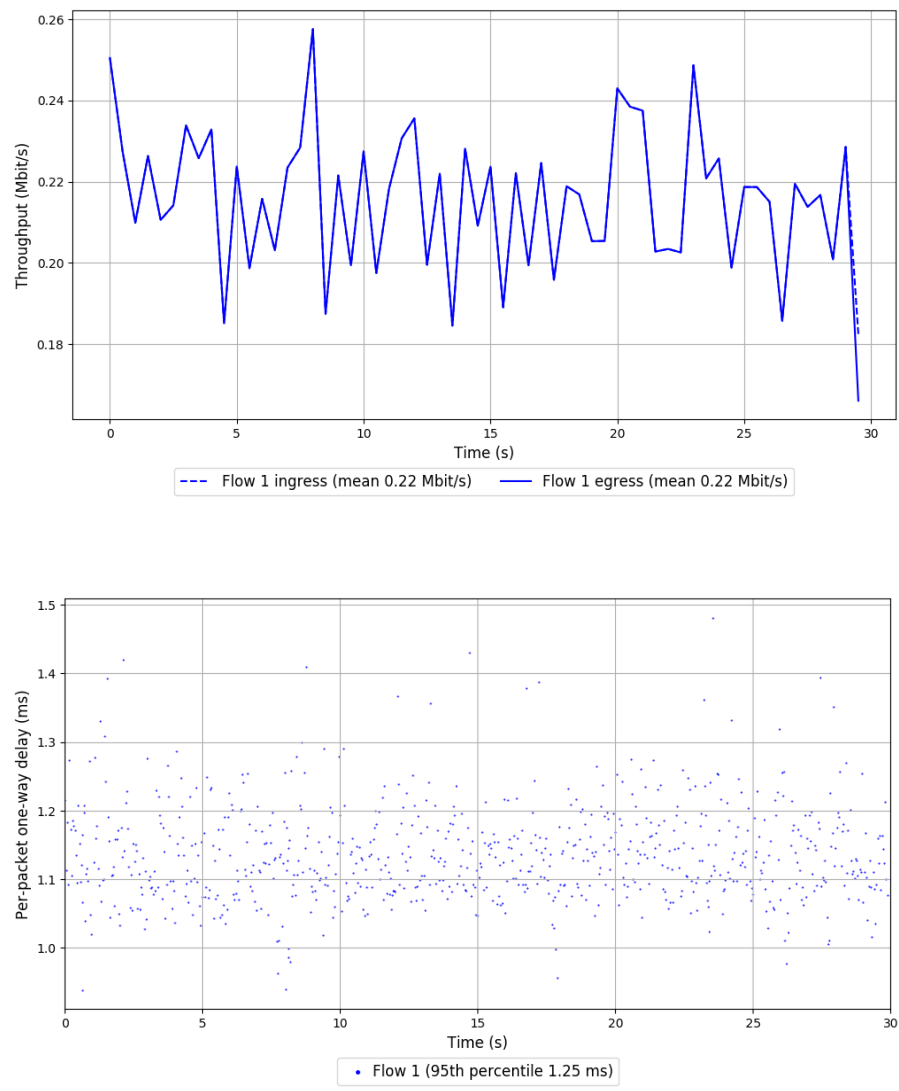
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 10: Report of SReAM — Data Link



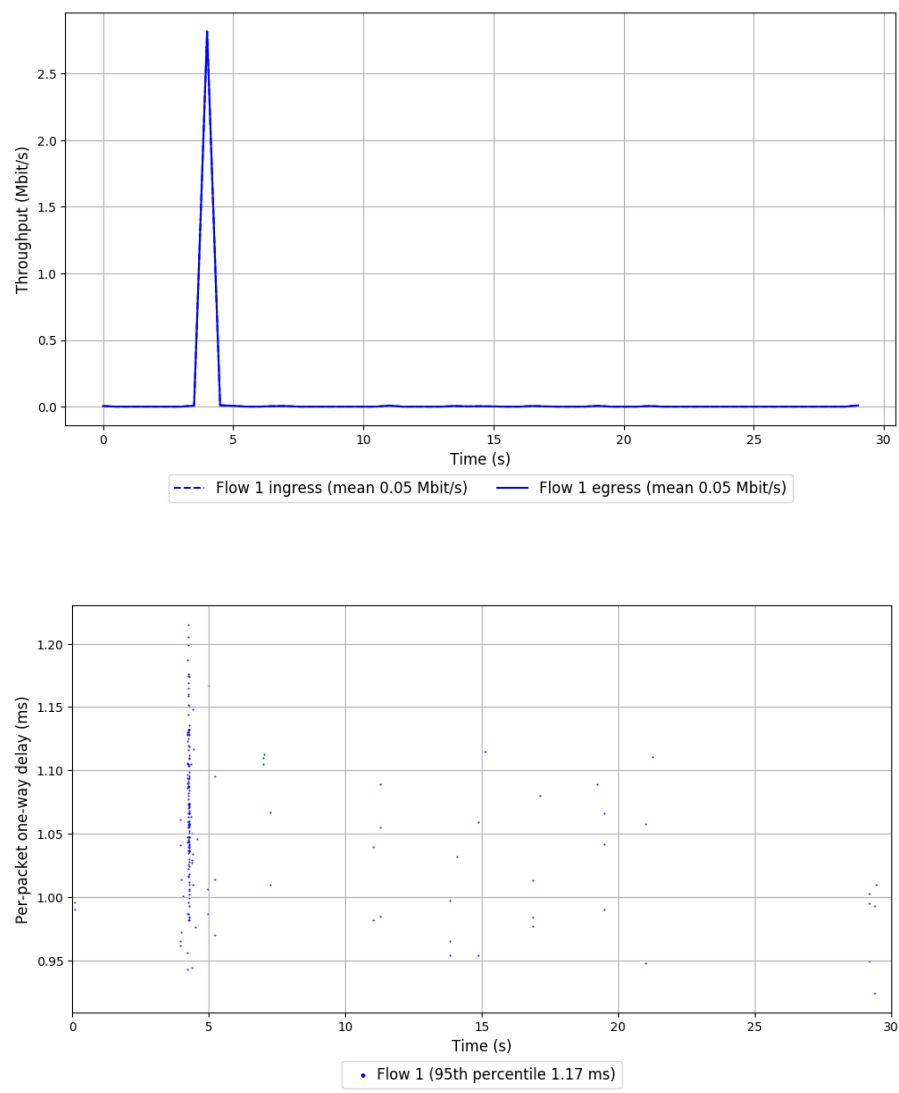
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 05:25:12  
End at: 2018-04-24 05:25:42  
Local clock offset: -0.879 ms  
Remote clock offset: -5.054 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.165 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.165 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link

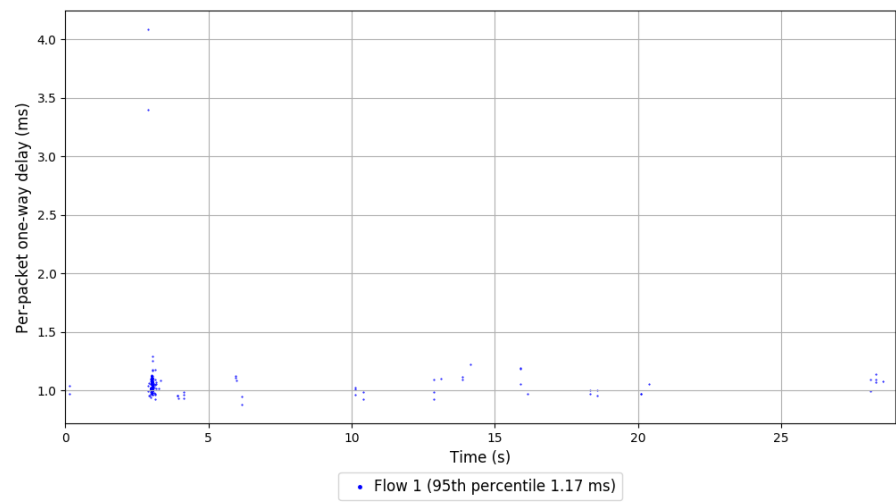
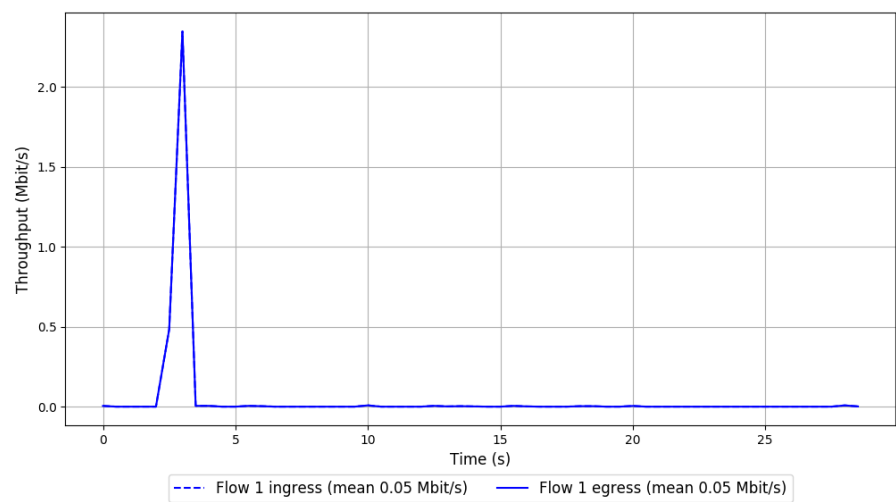


Run 2: Statistics of WebRTC media

Start at: 2018-04-24 05:50:35  
End at: 2018-04-24 05:51:05  
Local clock offset: -1.857 ms  
Remote clock offset: -5.045 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.167 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.167 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

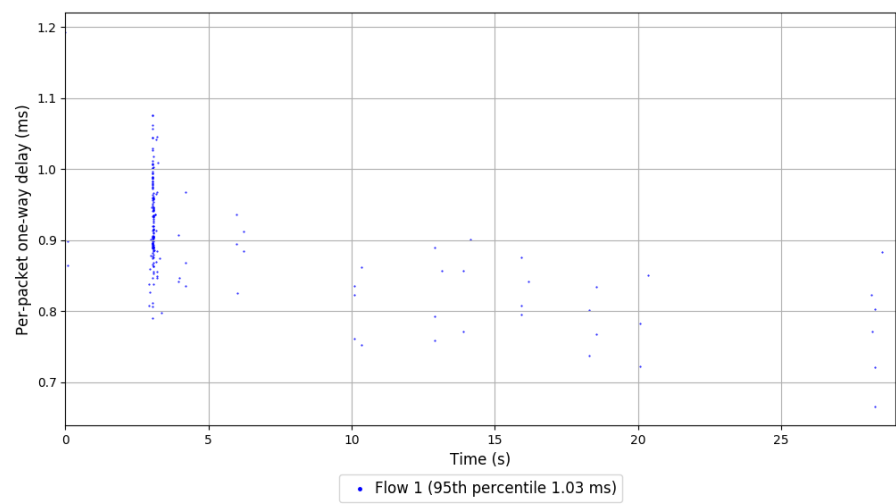
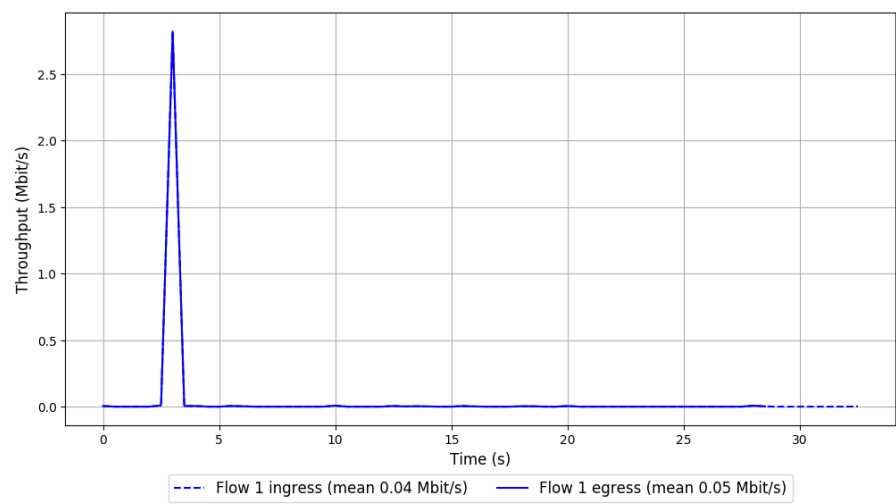


Run 3: Statistics of WebRTC media

Start at: 2018-04-24 06:15:54  
End at: 2018-04-24 06:16:24  
Local clock offset: -2.584 ms  
Remote clock offset: -6.603 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.029 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.029 ms  
Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 06:41:13

End at: 2018-04-24 06:41:43

Local clock offset: -1.62 ms

Remote clock offset: -7.15 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.00%

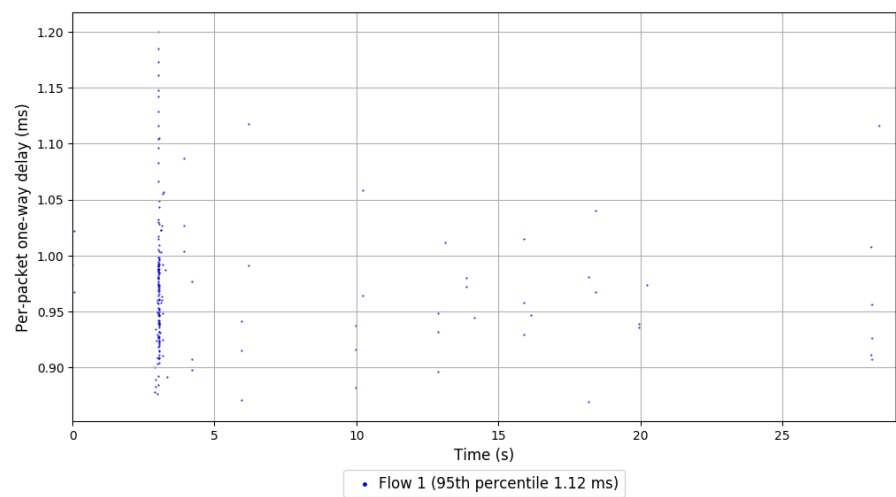
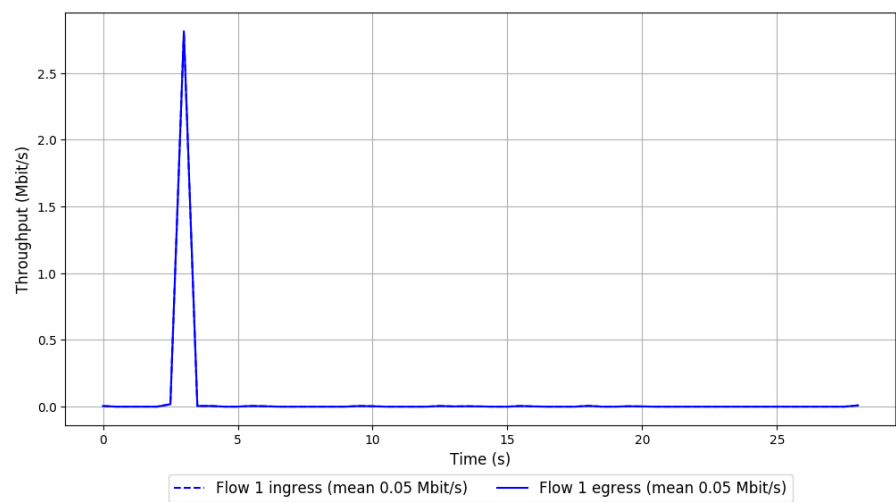
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.116 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



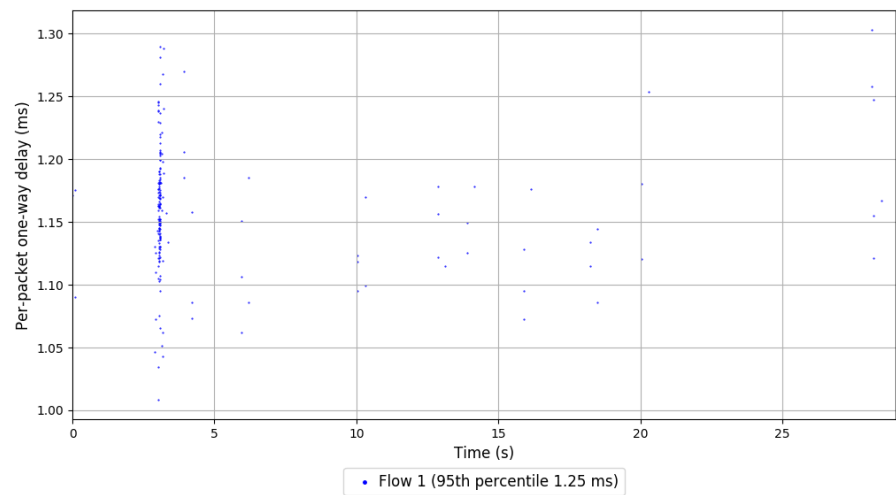
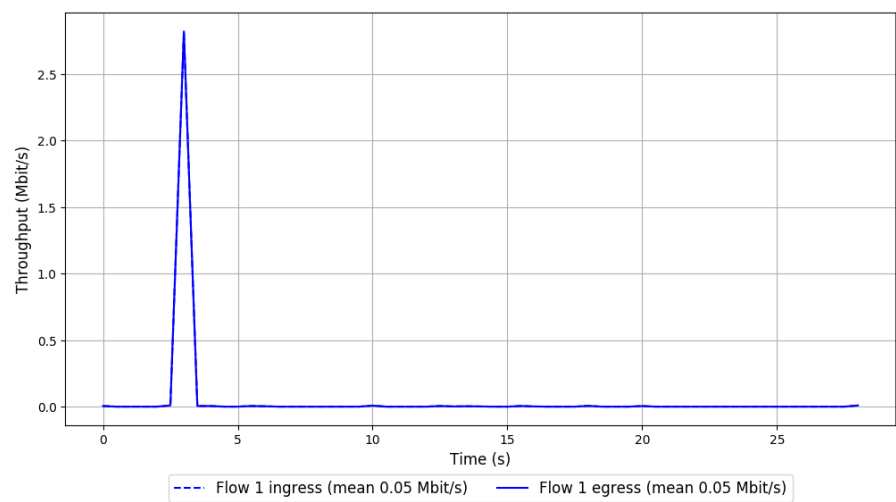
Run 5: Statistics of WebRTC media

Start at: 2018-04-24 07:06:43  
End at: 2018-04-24 07:07:13  
Local clock offset: 0.842 ms  
Remote clock offset: -7.366 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.247 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.247 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

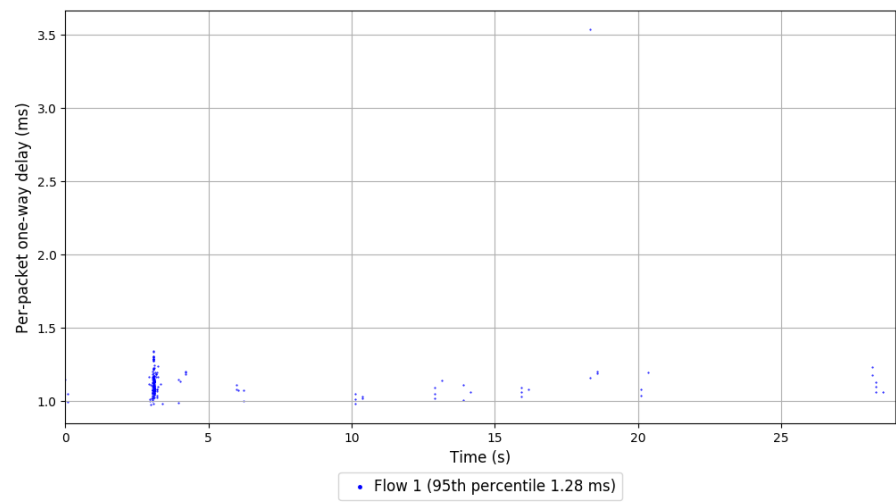
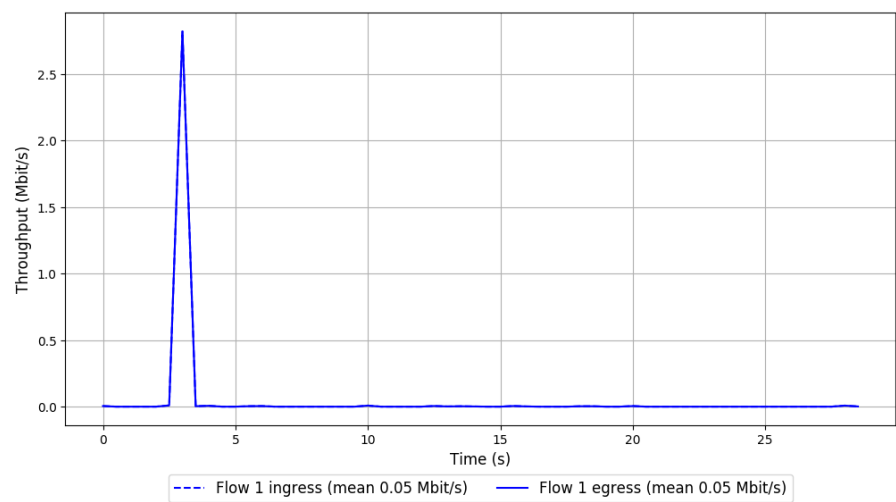


Run 6: Statistics of WebRTC media

Start at: 2018-04-24 07:32:01  
End at: 2018-04-24 07:32:31  
Local clock offset: -0.626 ms  
Remote clock offset: -4.938 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.284 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.284 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

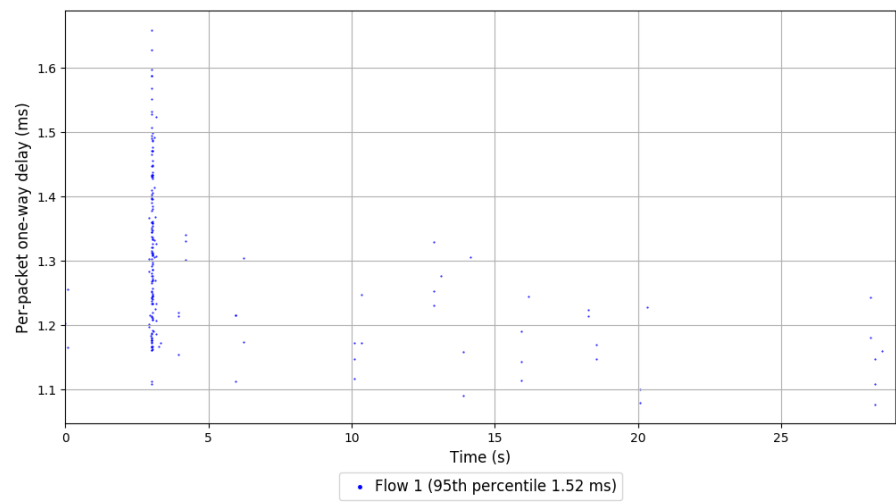
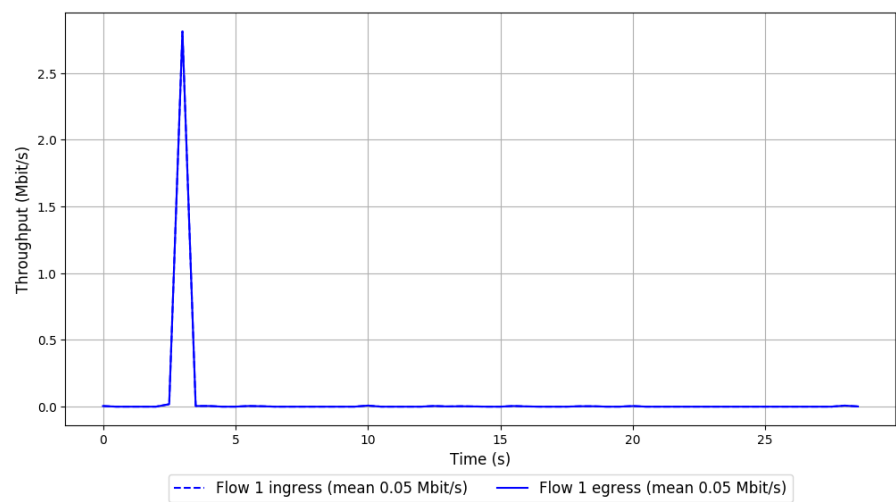


Run 7: Statistics of WebRTC media

Start at: 2018-04-24 07:57:22  
End at: 2018-04-24 07:57:52  
Local clock offset: -1.343 ms  
Remote clock offset: -6.116 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.524 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.524 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

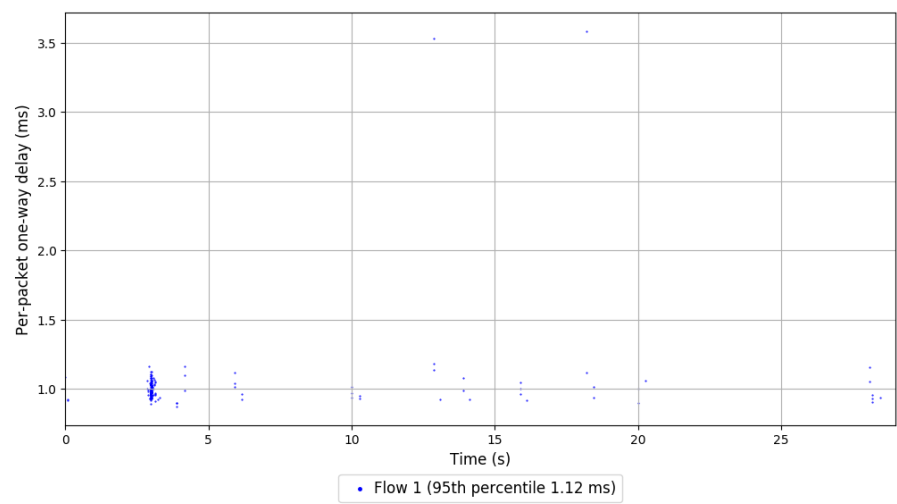
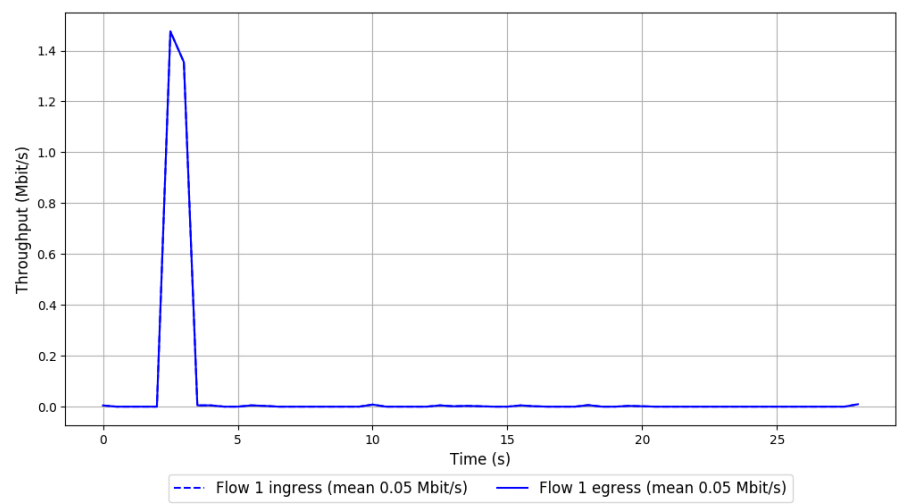


Run 8: Statistics of WebRTC media

Start at: 2018-04-24 08:22:42  
End at: 2018-04-24 08:23:12  
Local clock offset: -1.383 ms  
Remote clock offset: -6.268 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.117 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.117 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



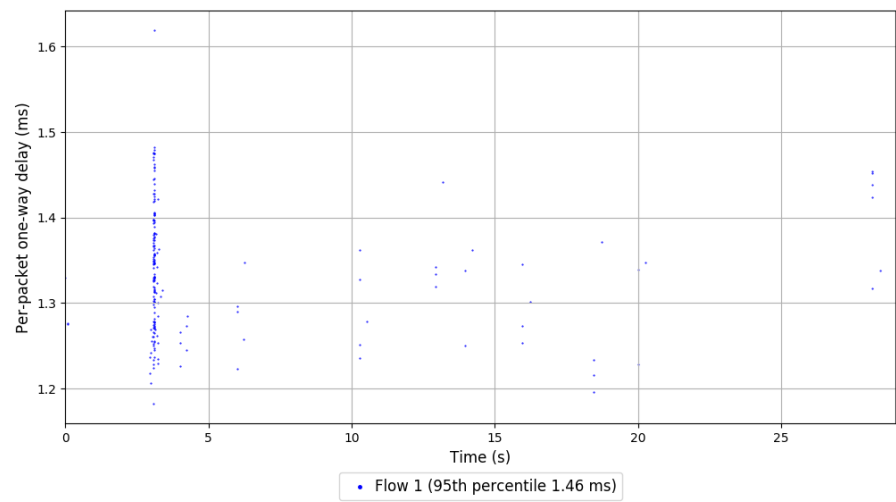
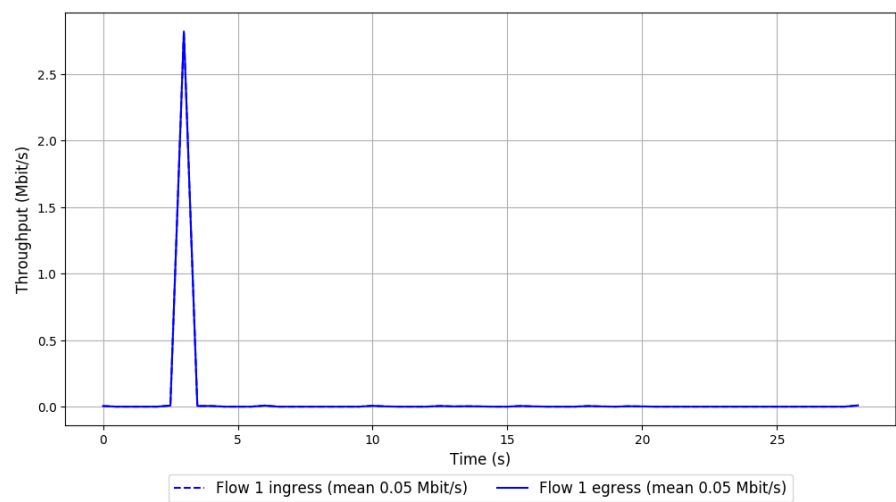
Run 9: Statistics of WebRTC media

Start at: 2018-04-24 08:47:56  
End at: 2018-04-24 08:48:26  
Local clock offset: -0.518 ms  
Remote clock offset: -6.365 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.462 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.462 ms  
Loss rate: 0.00%



Run 9: Report of WebRTC media — Data Link

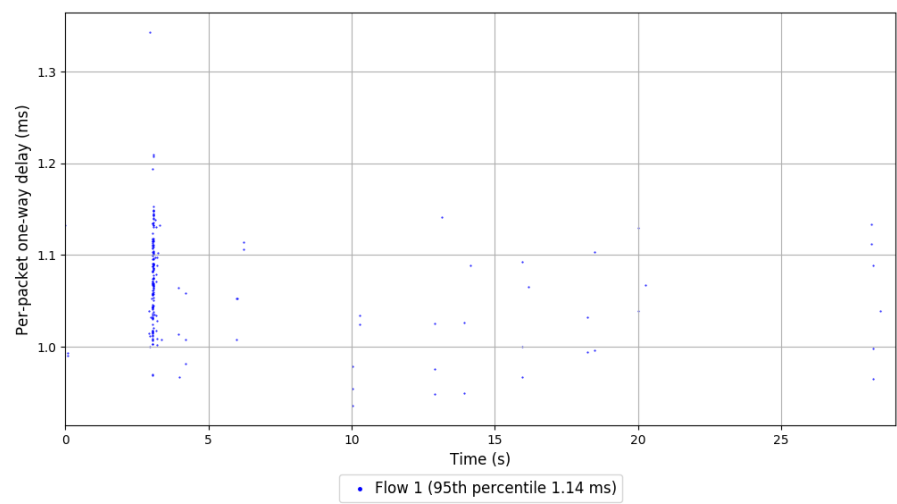
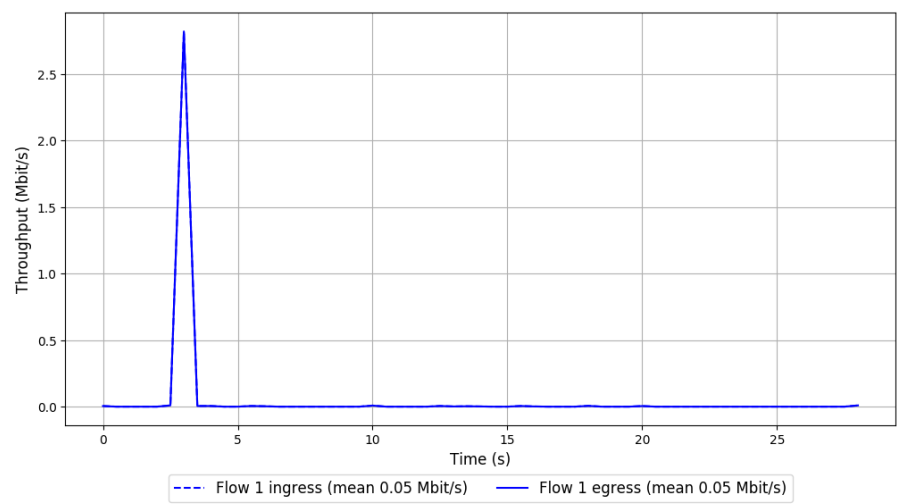


Run 10: Statistics of WebRTC media

Start at: 2018-04-24 09:13:11  
End at: 2018-04-24 09:13:41  
Local clock offset: -0.42 ms  
Remote clock offset: -5.183 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.144 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.144 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

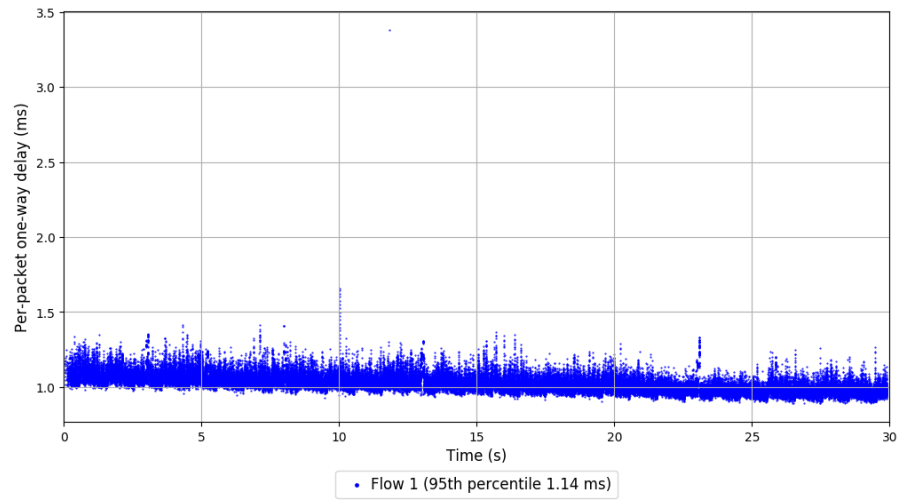
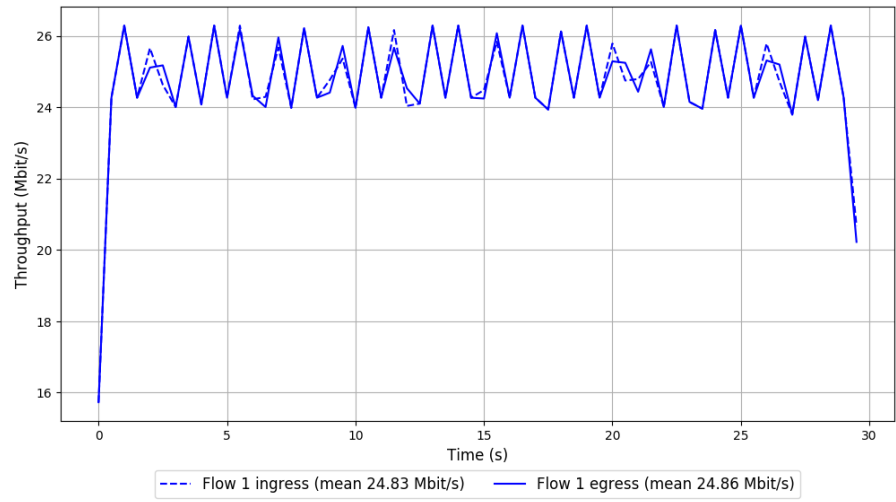


Run 1: Statistics of Sprout

Start at: 2018-04-24 05:20:40  
End at: 2018-04-24 05:21:10  
Local clock offset: -1.326 ms  
Remote clock offset: -5.112 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.86 Mbit/s  
95th percentile per-packet one-way delay: 1.142 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 24.86 Mbit/s  
95th percentile per-packet one-way delay: 1.142 ms  
Loss rate: 0.03%

# Run 1: Report of Sprout — Data Link

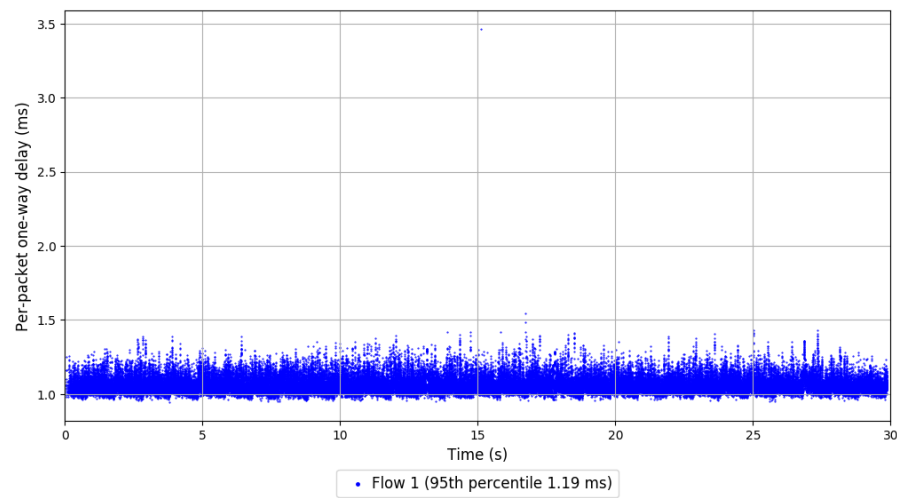
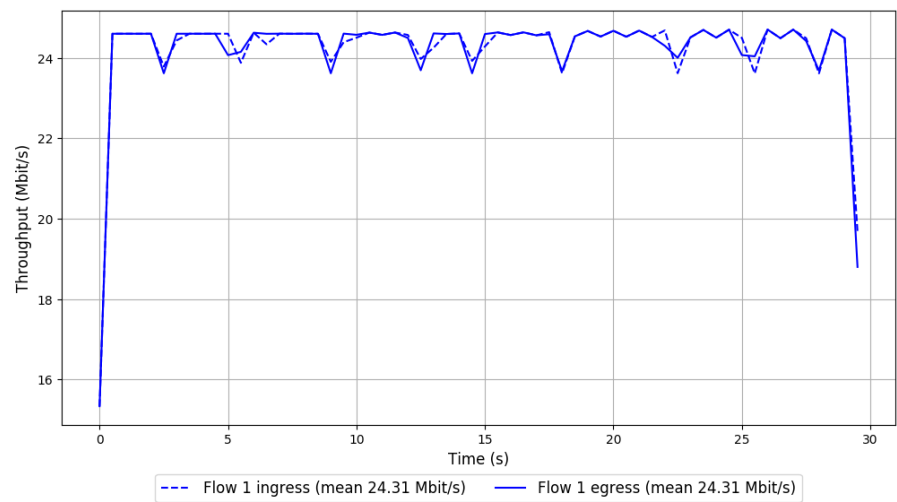


Run 2: Statistics of Sprout

Start at: 2018-04-24 05:46:05  
End at: 2018-04-24 05:46:35  
Local clock offset: -1.714 ms  
Remote clock offset: -5.098 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.31 Mbit/s  
95th percentile per-packet one-way delay: 1.185 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 24.31 Mbit/s  
95th percentile per-packet one-way delay: 1.185 ms  
Loss rate: 0.06%

Run 2: Report of Sprout — Data Link



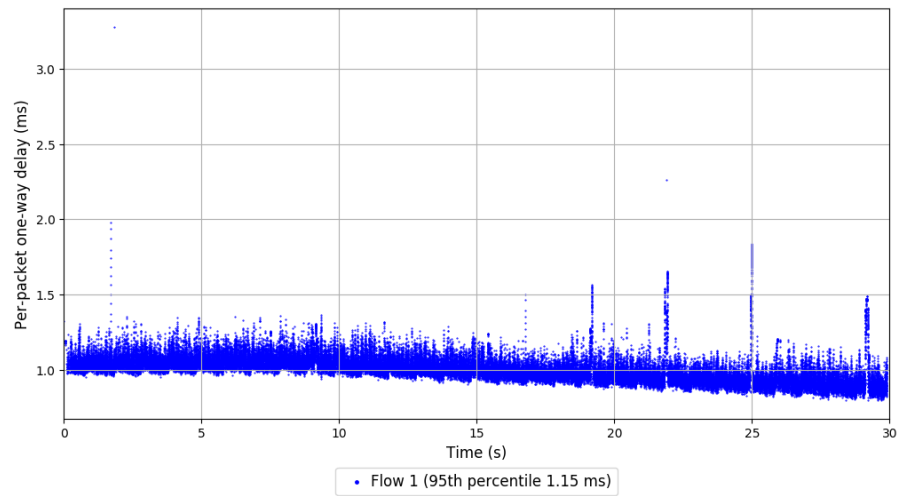
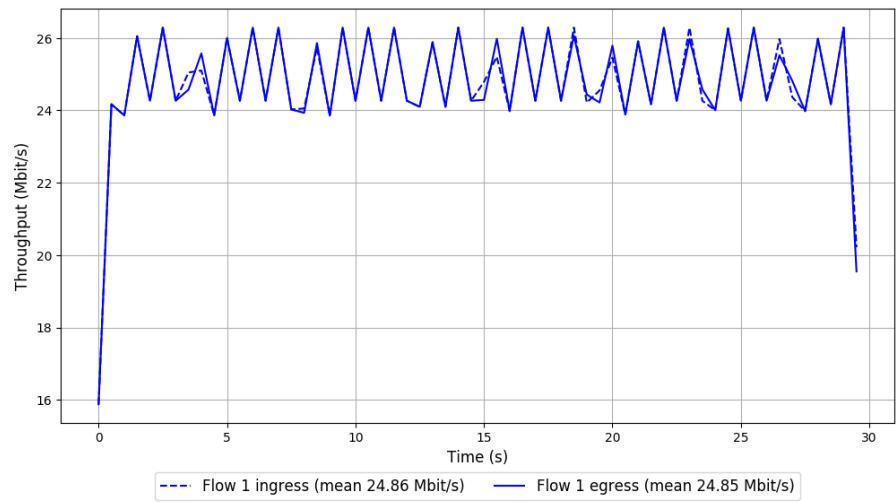
Run 3: Statistics of Sprout

Start at: 2018-04-24 06:11:23  
End at: 2018-04-24 06:11:53  
Local clock offset: -3.897 ms  
Remote clock offset: -6.336 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.85 Mbit/s  
95th percentile per-packet one-way delay: 1.145 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 24.85 Mbit/s  
95th percentile per-packet one-way delay: 1.145 ms  
Loss rate: 0.05%



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

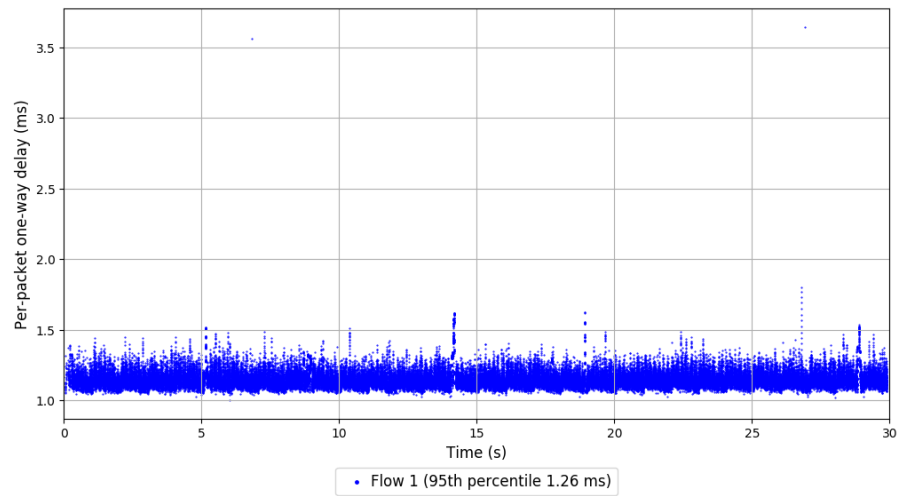
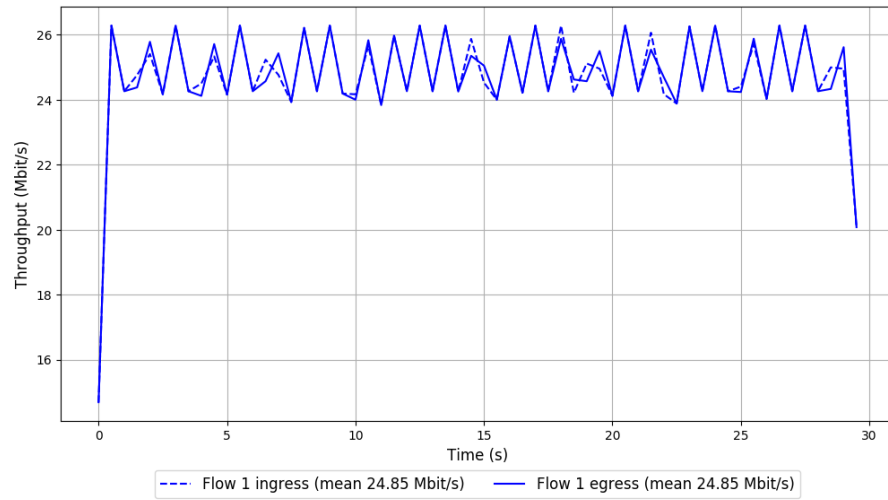


Run 4: Statistics of Sprout

Start at: 2018-04-24 06:36:43  
End at: 2018-04-24 06:37:13  
Local clock offset: -1.315 ms  
Remote clock offset: -7.119 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.85 Mbit/s  
95th percentile per-packet one-way delay: 1.261 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.85 Mbit/s  
95th percentile per-packet one-way delay: 1.261 ms  
Loss rate: 0.00%

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

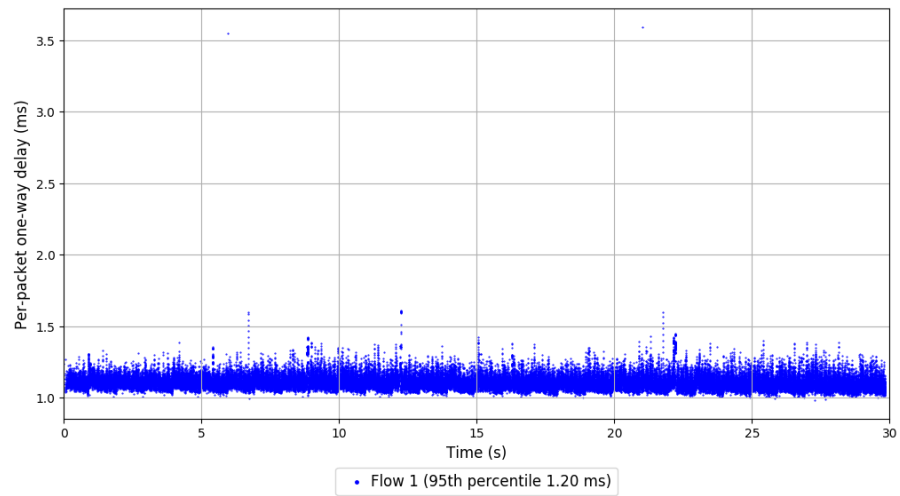
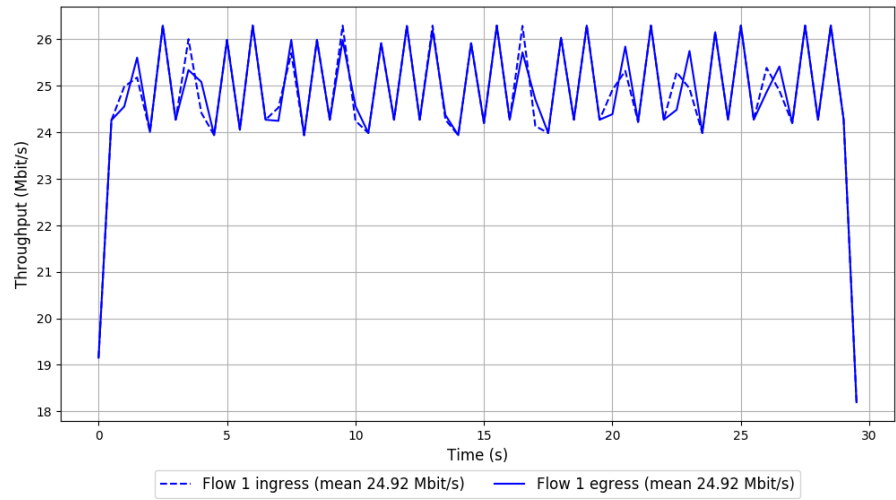


Run 5: Statistics of Sprout

Start at: 2018-04-24 07:02:09  
End at: 2018-04-24 07:02:39  
Local clock offset: 0.735 ms  
Remote clock offset: -7.571 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.92 Mbit/s  
95th percentile per-packet one-way delay: 1.202 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.92 Mbit/s  
95th percentile per-packet one-way delay: 1.202 ms  
Loss rate: 0.00%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-24 07:27:29

End at: 2018-04-24 07:27:59

Local clock offset: -0.21 ms

Remote clock offset: -5.05 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.07%

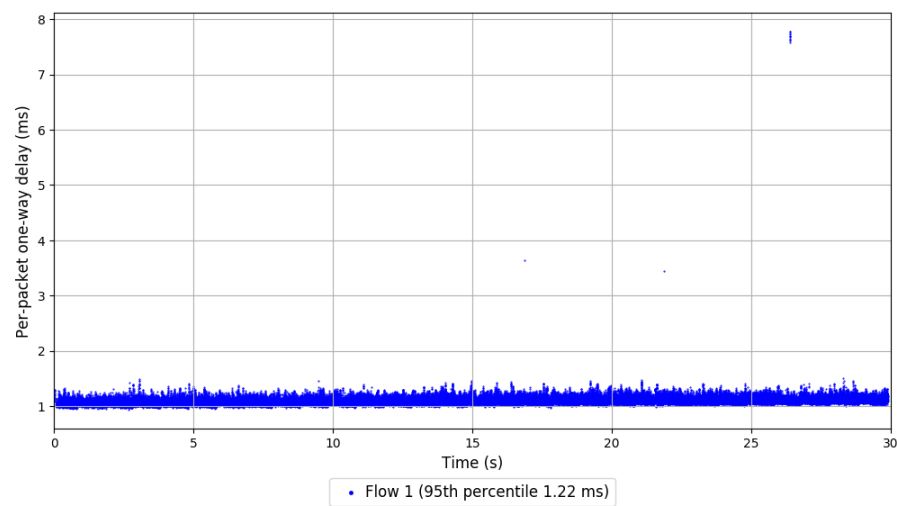
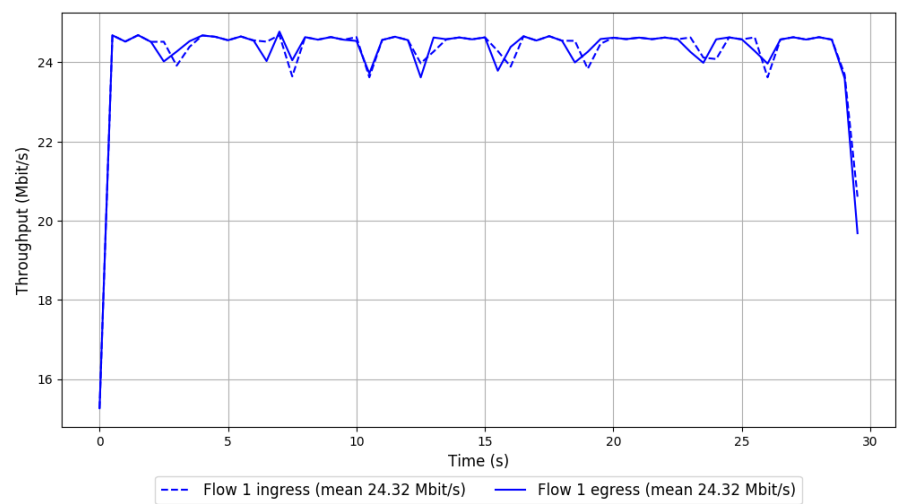
-- Flow 1:

Average throughput: 24.32 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.07%

Run 6: Report of Sprout — Data Link



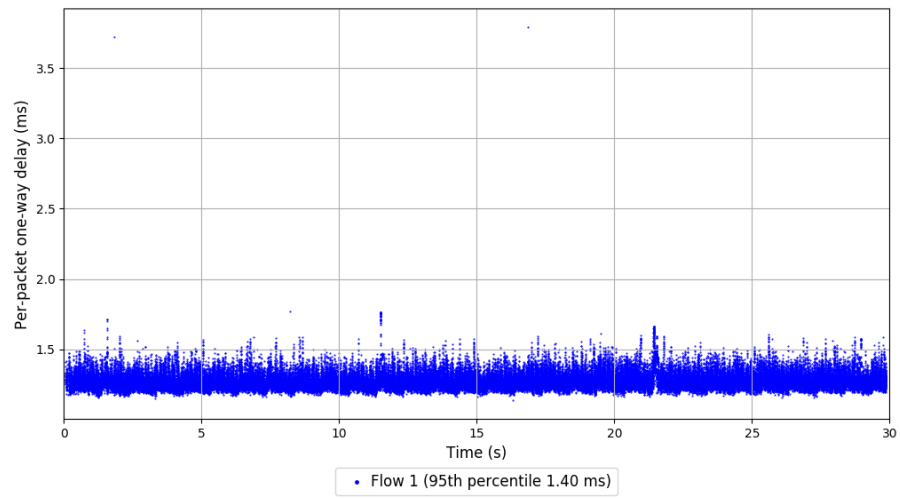
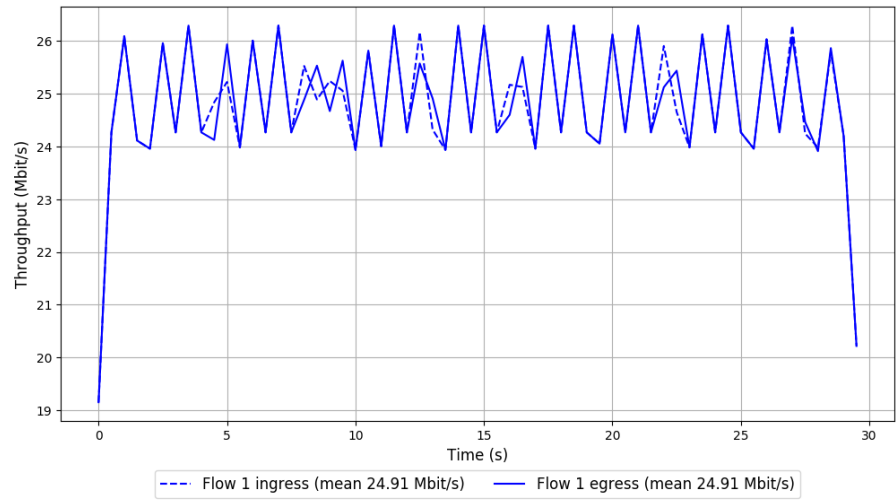
Run 7: Statistics of Sprout

Start at: 2018-04-24 07:52:49  
End at: 2018-04-24 07:53:19  
Local clock offset: -1.576 ms  
Remote clock offset: -5.871 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.91 Mbit/s  
95th percentile per-packet one-way delay: 1.397 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.91 Mbit/s  
95th percentile per-packet one-way delay: 1.397 ms  
Loss rate: 0.00%



# Run 7: Report of Sprout — Data Link

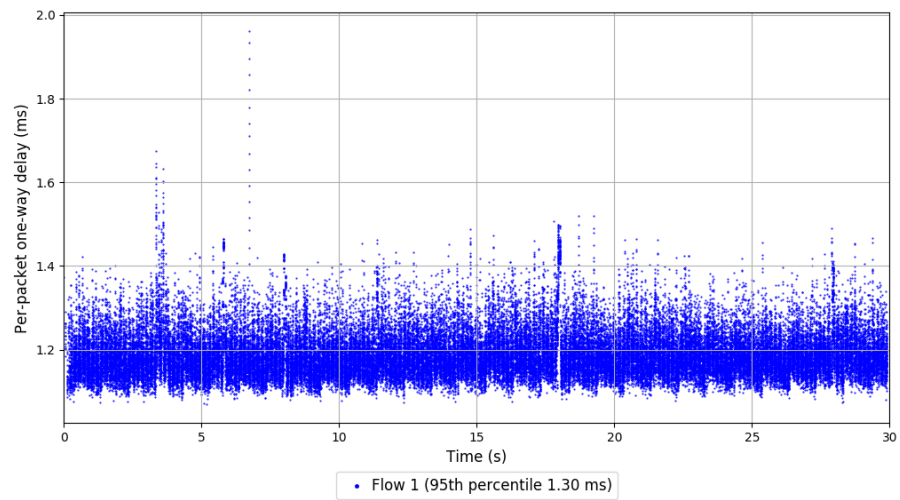
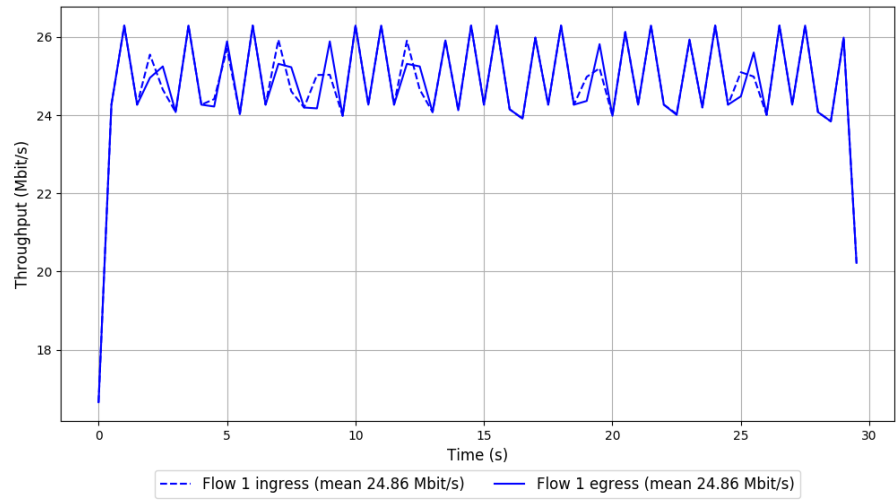


Run 8: Statistics of Sprout

Start at: 2018-04-24 08:18:12  
End at: 2018-04-24 08:18:42  
Local clock offset: -1.118 ms  
Remote clock offset: -6.261 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.86 Mbit/s  
95th percentile per-packet one-way delay: 1.297 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.86 Mbit/s  
95th percentile per-packet one-way delay: 1.297 ms  
Loss rate: 0.00%

## Run 8: Report of Sprout — Data Link

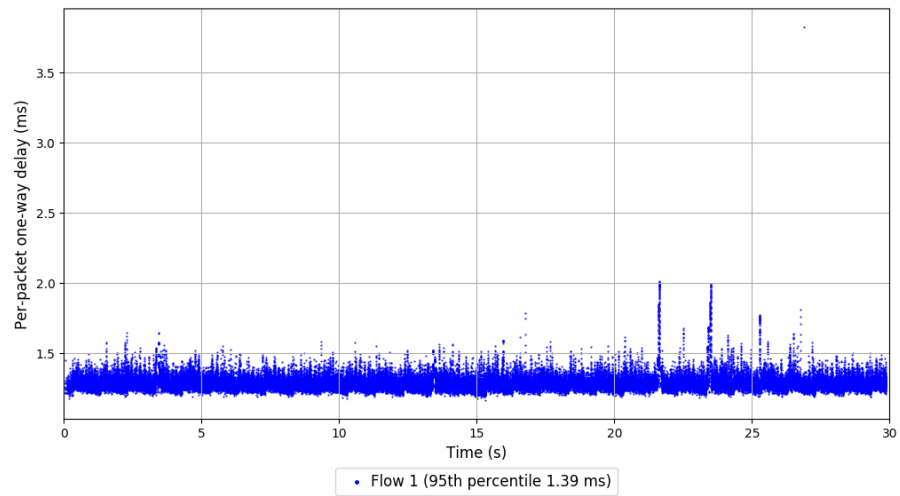
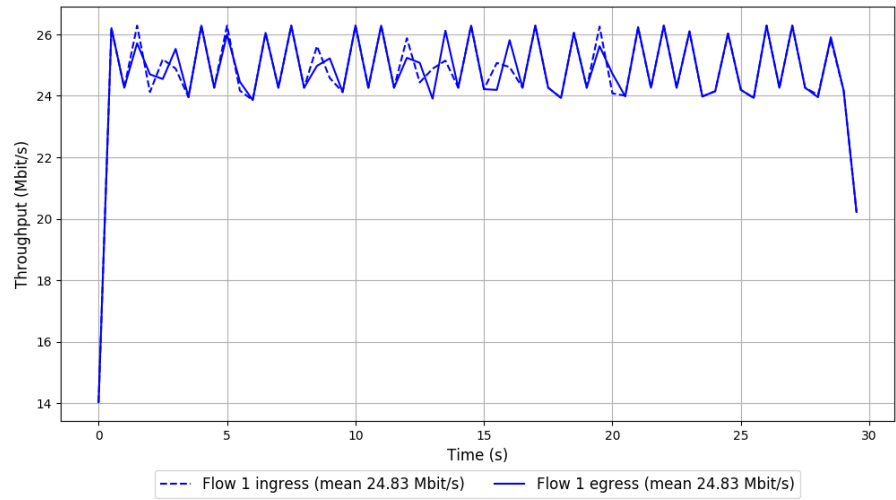


Run 9: Statistics of Sprout

Start at: 2018-04-24 08:43:26  
End at: 2018-04-24 08:43:56  
Local clock offset: -0.535 ms  
Remote clock offset: -6.351 ms

# Below is generated by plot.py at 2018-04-24 14:35:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.83 Mbit/s  
95th percentile per-packet one-way delay: 1.386 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.83 Mbit/s  
95th percentile per-packet one-way delay: 1.386 ms  
Loss rate: 0.00%

### Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-24 09:08:37

End at: 2018-04-24 09:09:07

Local clock offset: -0.499 ms

Remote clock offset: -5.3 ms

# Below is generated by plot.py at 2018-04-24 14:35:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 1.306 ms

Loss rate: 0.14%

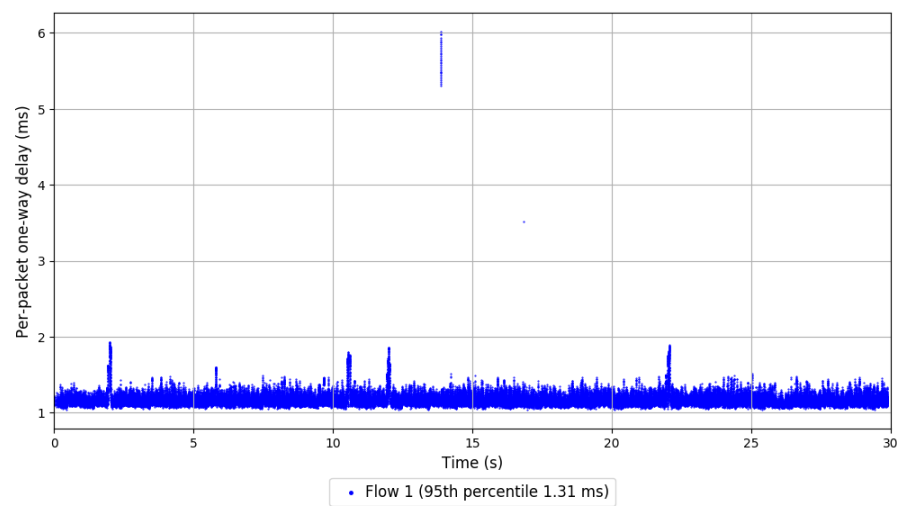
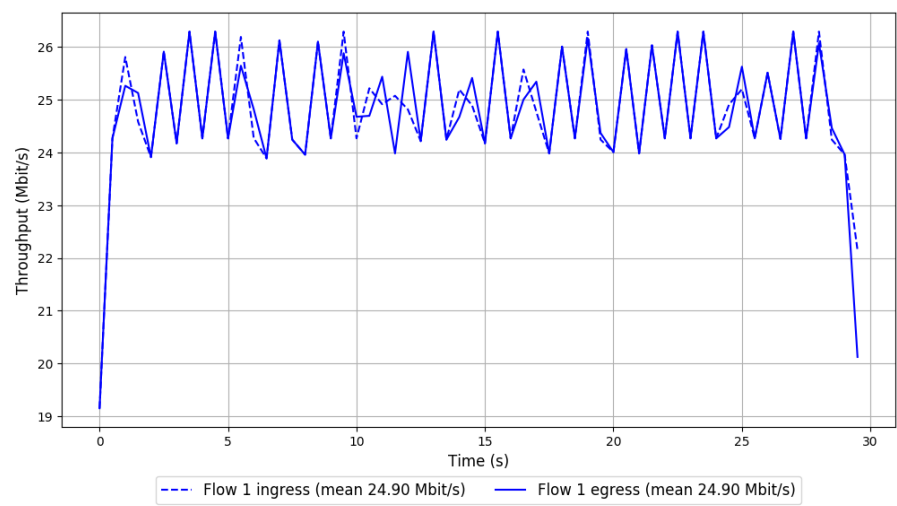
-- Flow 1:

Average throughput: 24.90 Mbit/s

95th percentile per-packet one-way delay: 1.306 ms

Loss rate: 0.14%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 05:21:59

End at: 2018-04-24 05:22:29

Local clock offset: -1.225 ms

Remote clock offset: -5.075 ms

# Below is generated by plot.py at 2018-04-24 14:35:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 268.42 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.06%

-- Flow 1:

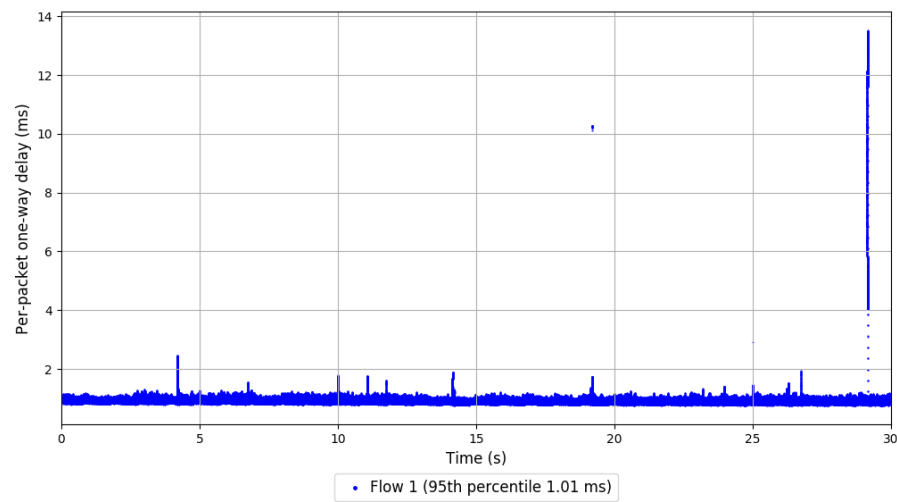
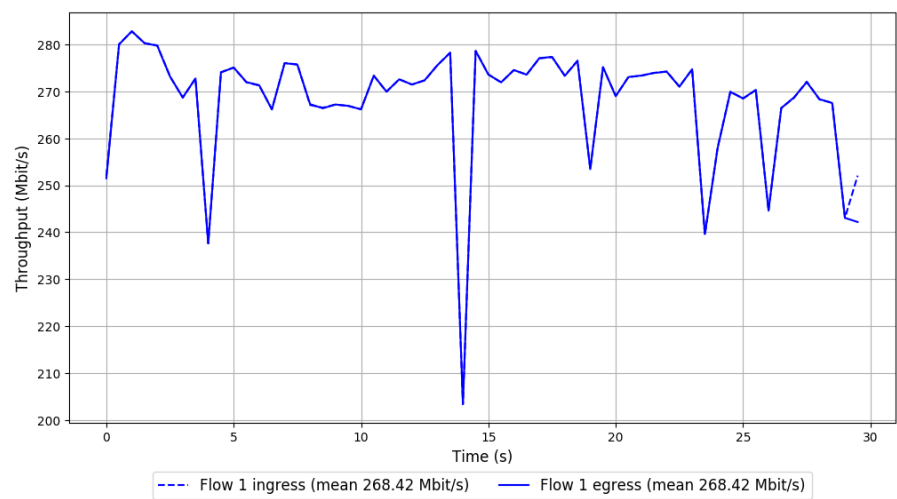
Average throughput: 268.42 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.06%



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 05:47:24

End at: 2018-04-24 05:47:54

Local clock offset: -1.62 ms

Remote clock offset: -5.094 ms

# Below is generated by plot.py at 2018-04-24 14:35:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 266.84 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.06%

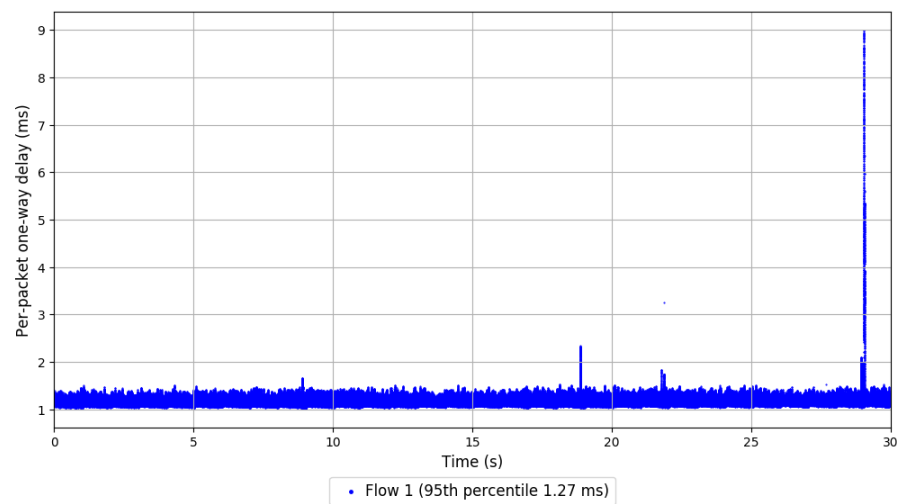
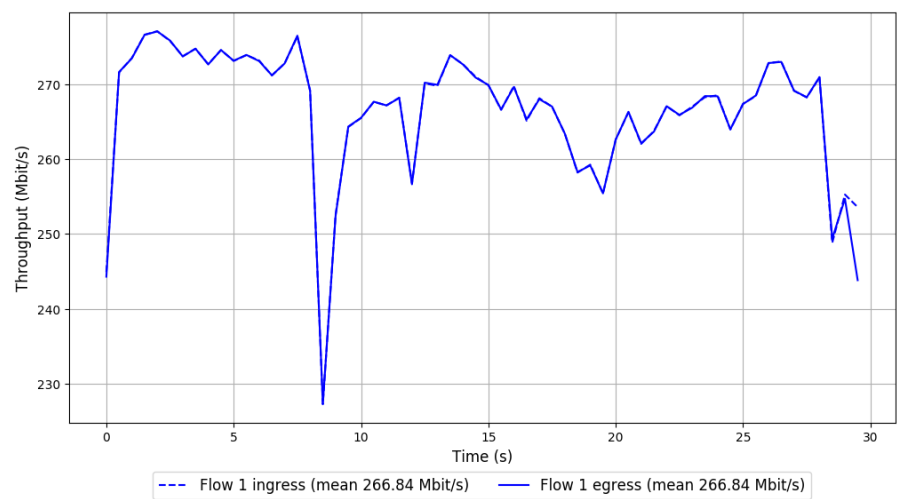
-- Flow 1:

Average throughput: 266.84 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.06%

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

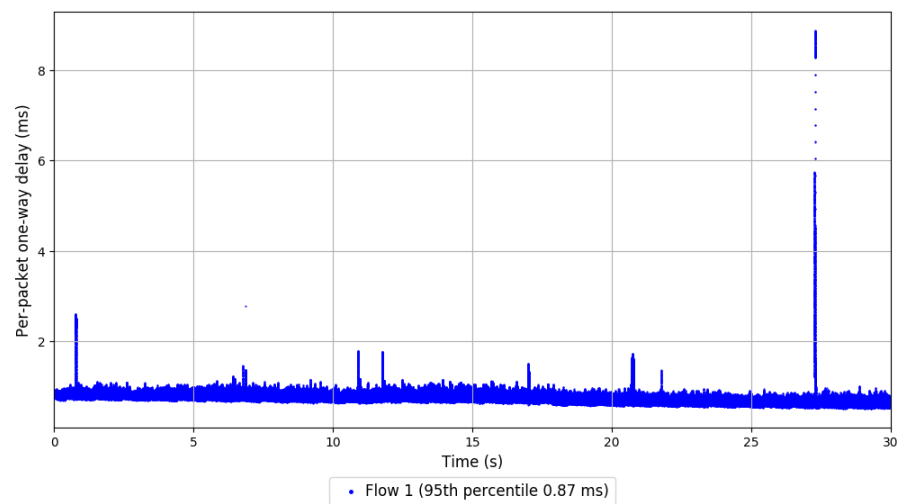
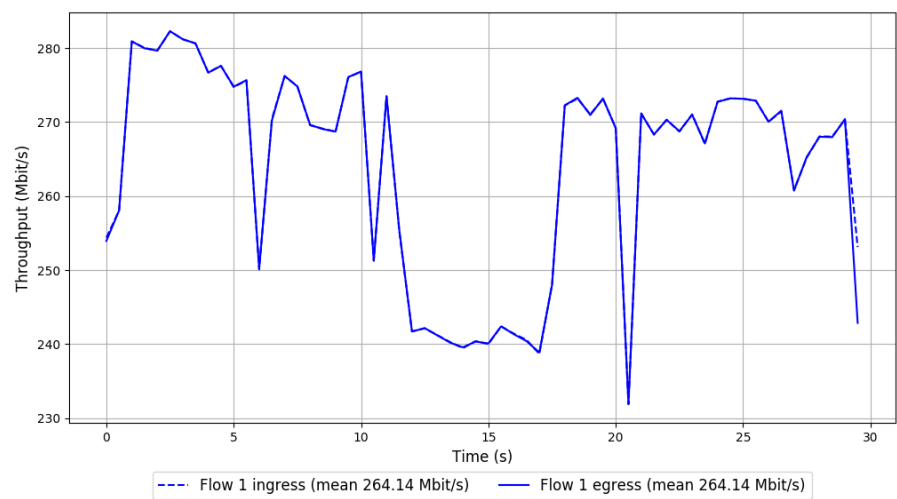


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 06:12:41  
End at: 2018-04-24 06:13:12  
Local clock offset: -3.71 ms  
Remote clock offset: -6.458 ms

# Below is generated by plot.py at 2018-04-24 14:35:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 264.14 Mbit/s  
95th percentile per-packet one-way delay: 0.867 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 264.14 Mbit/s  
95th percentile per-packet one-way delay: 0.867 ms  
Loss rate: 0.07%

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

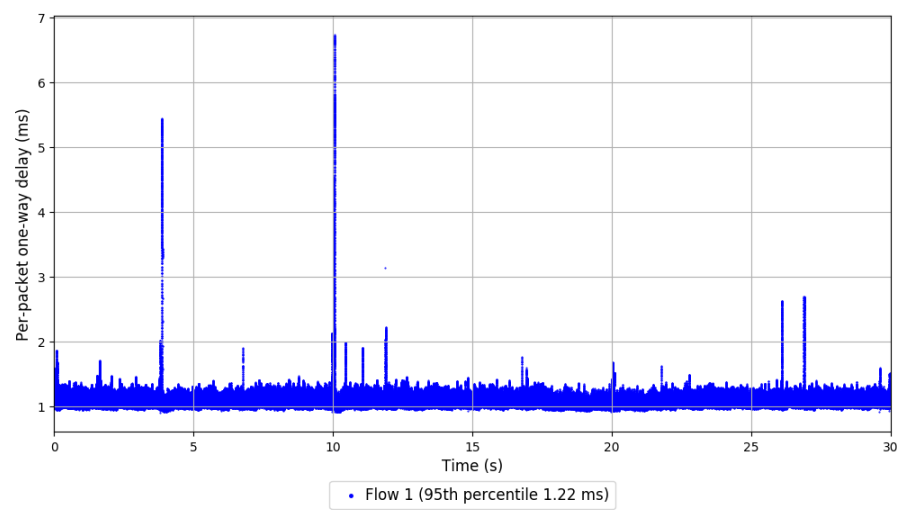
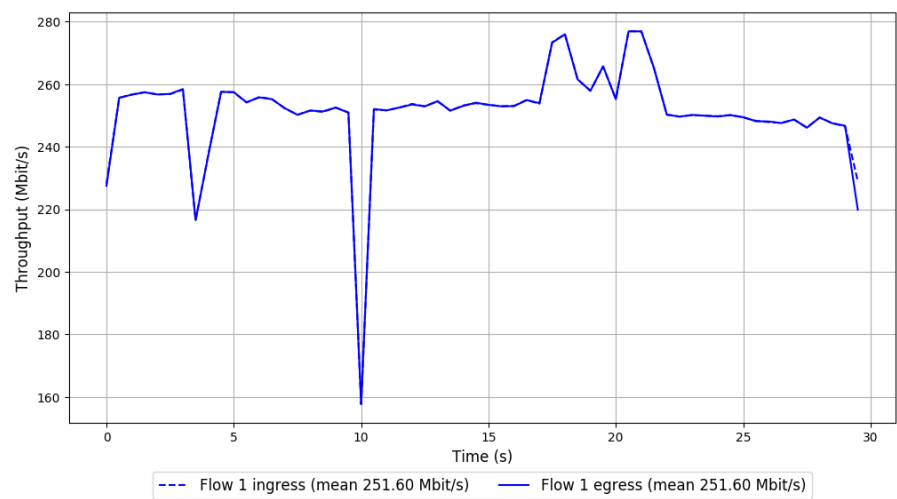


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 06:38:02  
End at: 2018-04-24 06:38:32  
Local clock offset: -1.457 ms  
Remote clock offset: -7.118 ms

# Below is generated by plot.py at 2018-04-24 14:35:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 251.60 Mbit/s  
95th percentile per-packet one-way delay: 1.220 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 251.60 Mbit/s  
95th percentile per-packet one-way delay: 1.220 ms  
Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 07:03:28

End at: 2018-04-24 07:03:58

Local clock offset: 0.741 ms

Remote clock offset: -7.607 ms

# Below is generated by plot.py at 2018-04-24 14:35:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 269.96 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.07%

-- Flow 1:

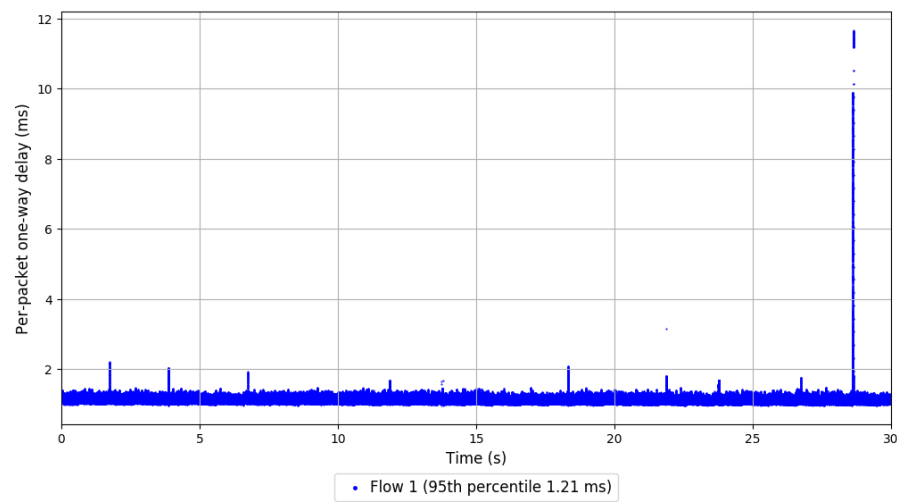
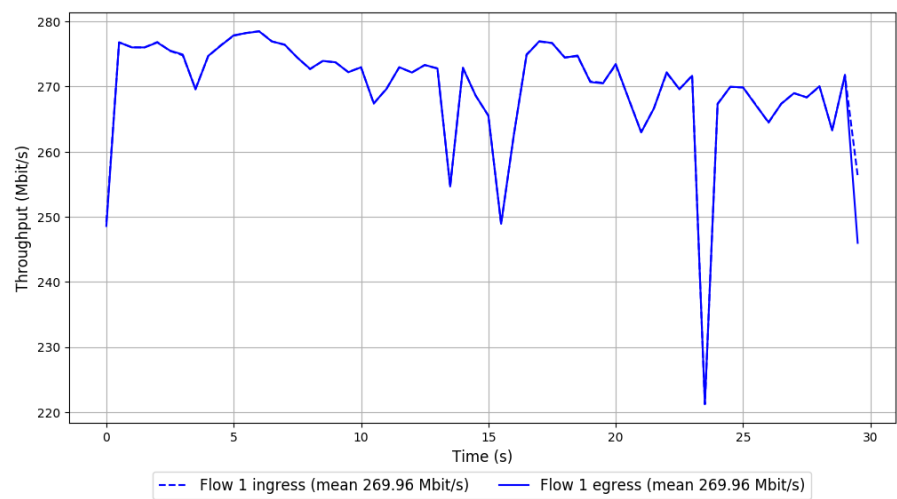
Average throughput: 269.96 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.07%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 07:28:48

End at: 2018-04-24 07:29:18

Local clock offset: -0.185 ms

Remote clock offset: -5.055 ms

# Below is generated by plot.py at 2018-04-24 14:35:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 264.74 Mbit/s

95th percentile per-packet one-way delay: 1.410 ms

Loss rate: 0.06%

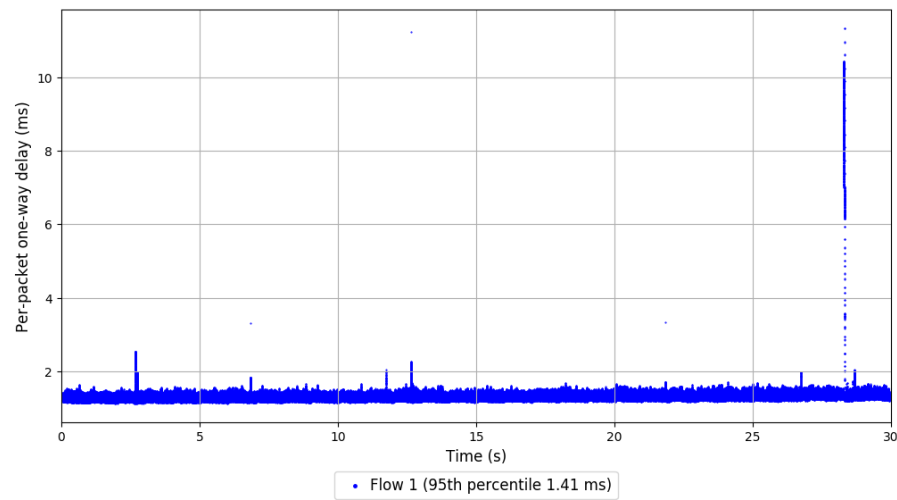
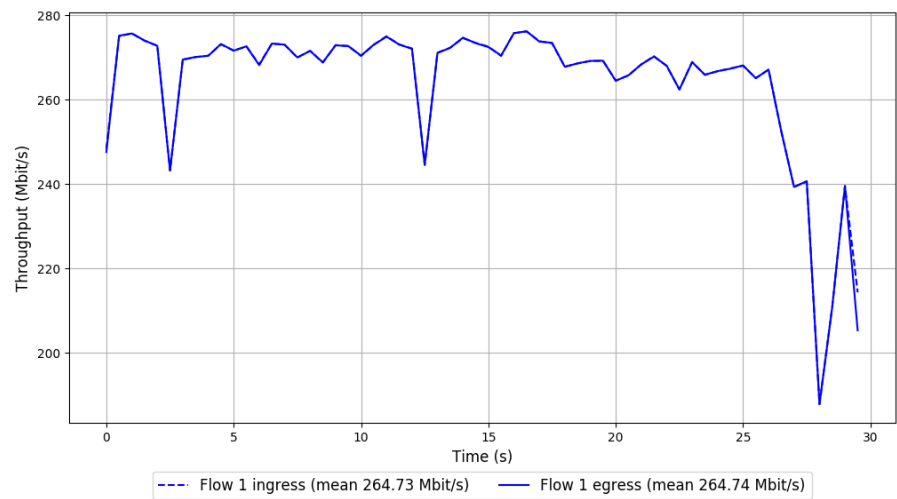
-- Flow 1:

Average throughput: 264.74 Mbit/s

95th percentile per-packet one-way delay: 1.410 ms

Loss rate: 0.06%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 07:54:08

End at: 2018-04-24 07:54:38

Local clock offset: -1.802 ms

Remote clock offset: -6.02 ms

# Below is generated by plot.py at 2018-04-24 14:41:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 268.05 Mbit/s

95th percentile per-packet one-way delay: 1.262 ms

Loss rate: 0.08%

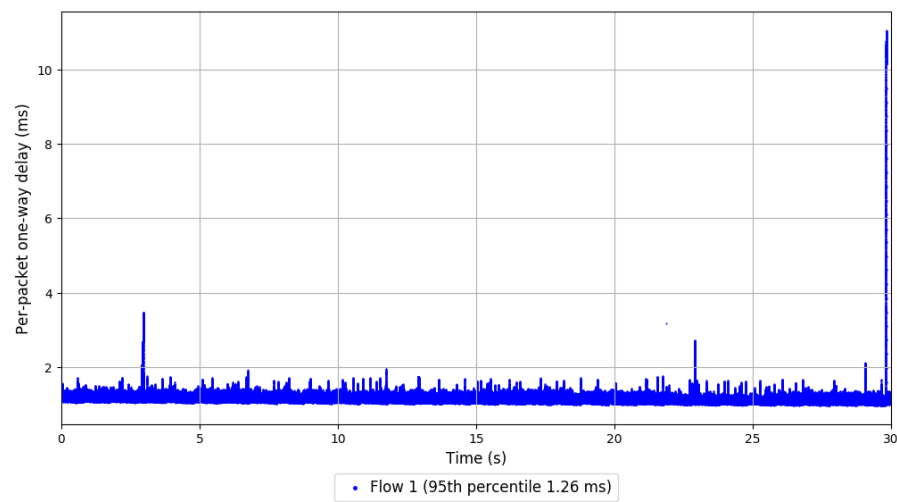
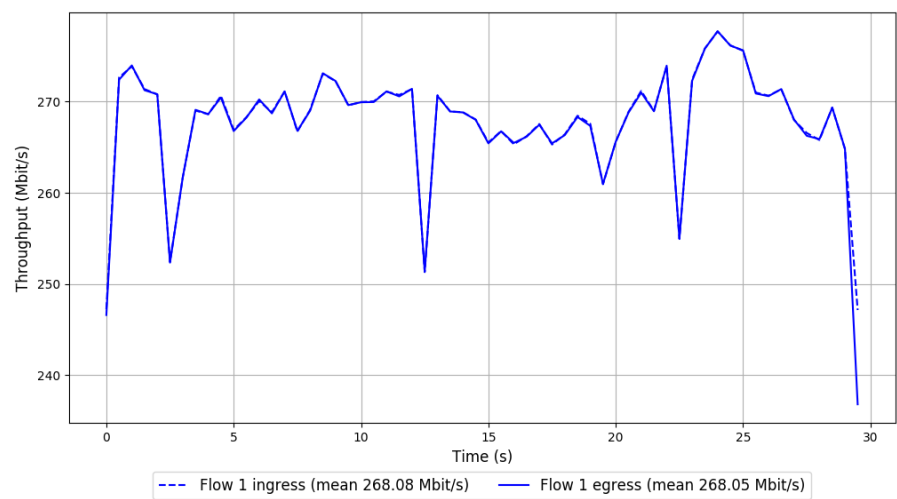
-- Flow 1:

Average throughput: 268.05 Mbit/s

95th percentile per-packet one-way delay: 1.262 ms

Loss rate: 0.08%

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

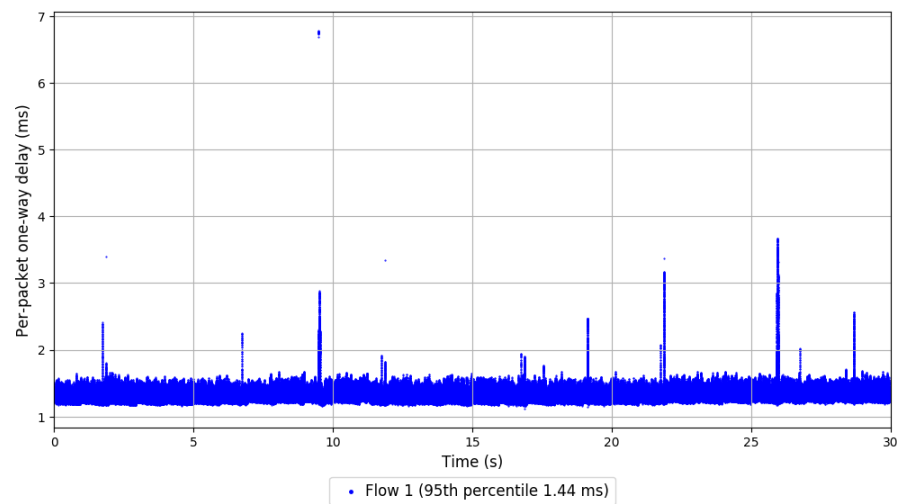
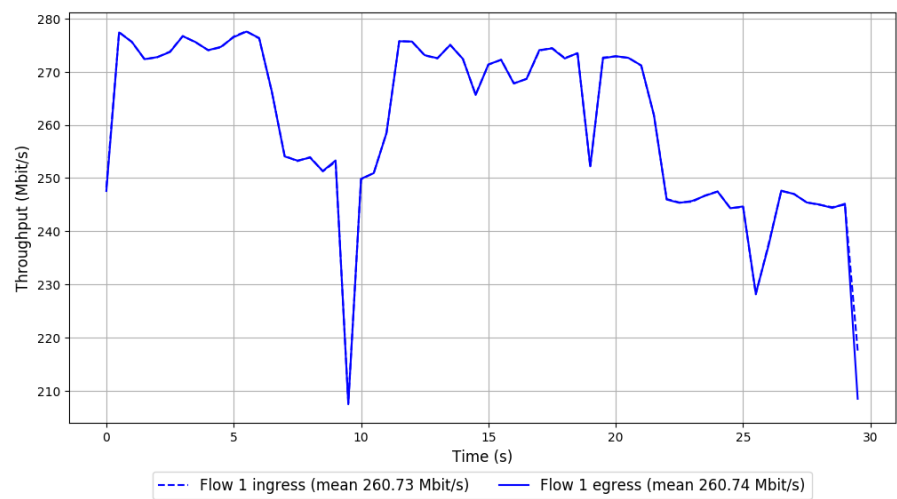


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 08:19:31  
End at: 2018-04-24 08:20:01  
Local clock offset: -1.014 ms  
Remote clock offset: -6.265 ms

# Below is generated by plot.py at 2018-04-24 14:42:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 260.74 Mbit/s  
95th percentile per-packet one-way delay: 1.444 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 260.74 Mbit/s  
95th percentile per-packet one-way delay: 1.444 ms  
Loss rate: 0.06%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 08:44:45

End at: 2018-04-24 08:45:15

Local clock offset: -0.53 ms

Remote clock offset: -6.376 ms

# Below is generated by plot.py at 2018-04-24 14:42:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 263.18 Mbit/s

95th percentile per-packet one-way delay: 1.446 ms

Loss rate: 0.07%

-- Flow 1:

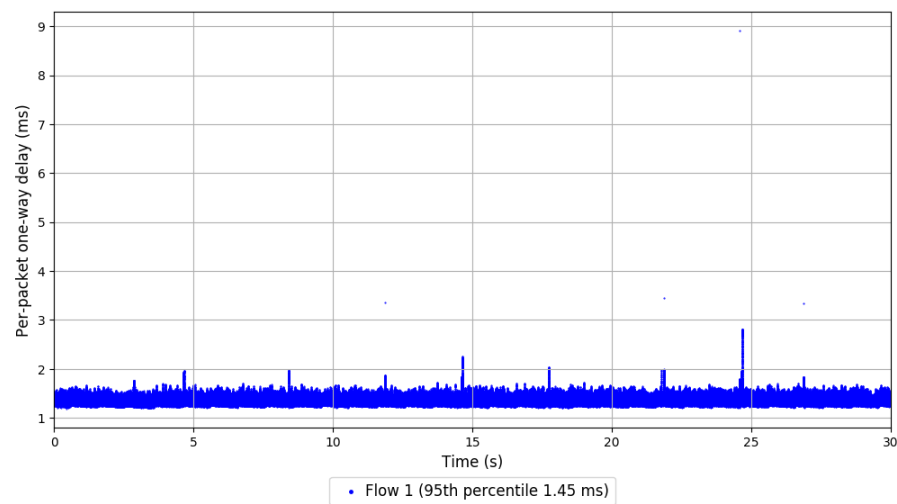
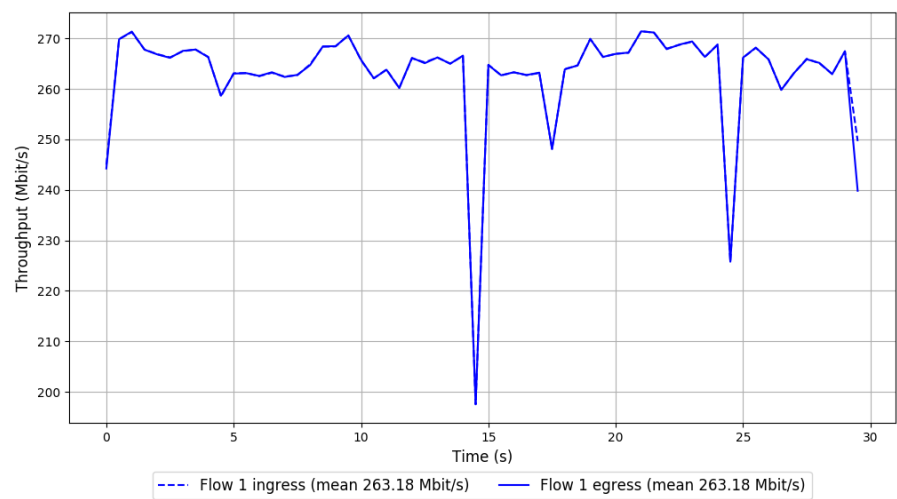
Average throughput: 263.18 Mbit/s

95th percentile per-packet one-way delay: 1.446 ms

Loss rate: 0.07%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 09:09:56

End at: 2018-04-24 09:10:26

Local clock offset: -0.481 ms

Remote clock offset: -5.247 ms

# Below is generated by plot.py at 2018-04-24 14:42:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 249.77 Mbit/s

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

Loss rate: 0.07%

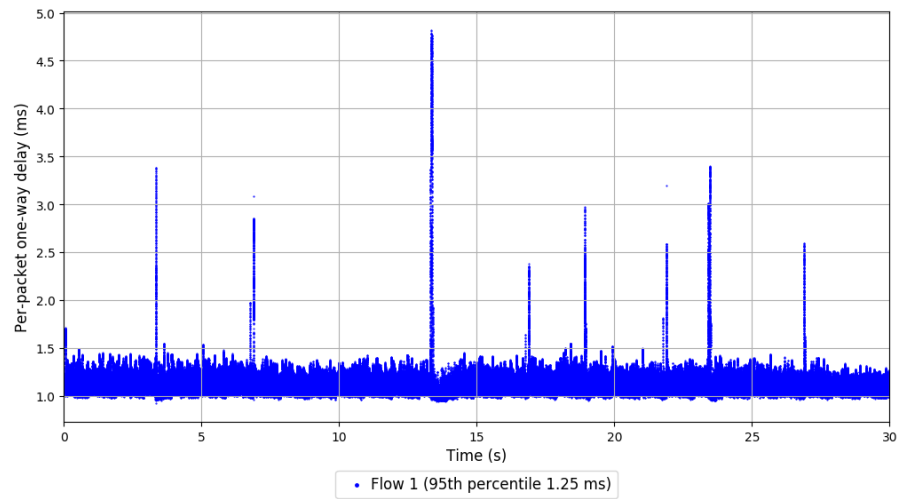
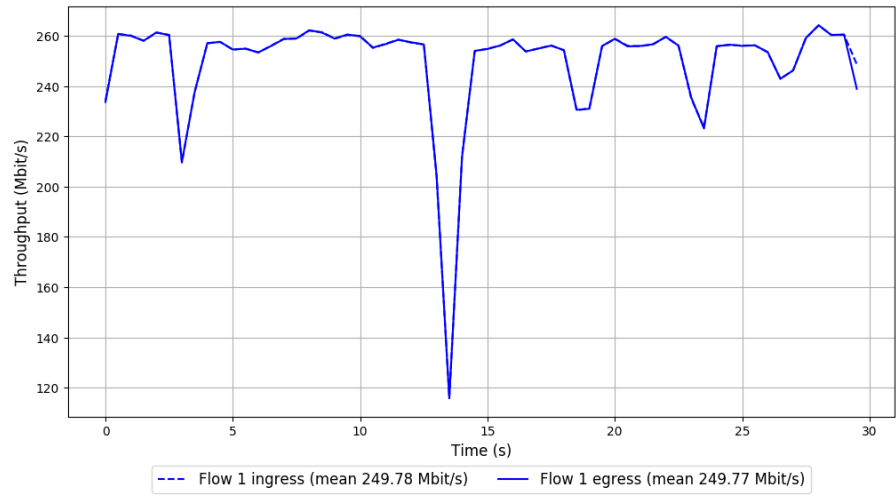
-- Flow 1:

Average throughput: 249.77 Mbit/s

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

Loss rate: 0.07%

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

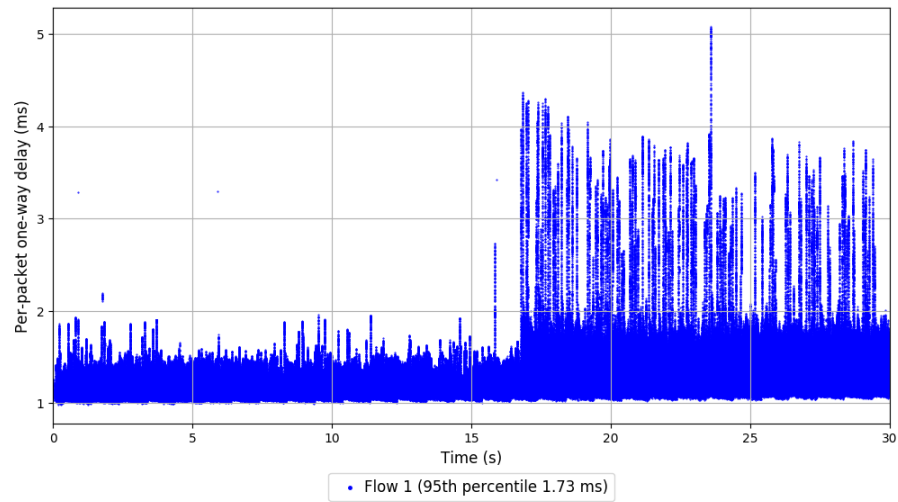
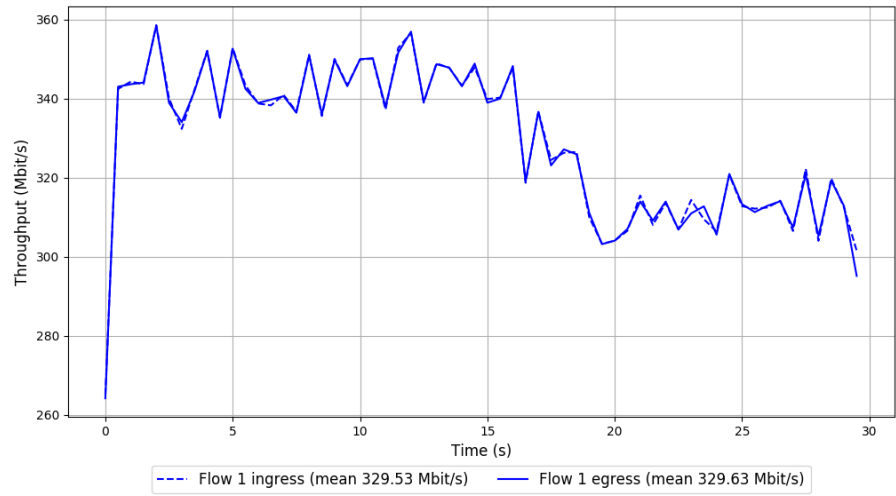


Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 05:29:49  
End at: 2018-04-24 05:30:19  
Local clock offset: -1.201 ms  
Remote clock offset: -5.131 ms

# Below is generated by plot.py at 2018-04-24 14:42:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 329.63 Mbit/s  
95th percentile per-packet one-way delay: 1.727 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 329.63 Mbit/s  
95th percentile per-packet one-way delay: 1.727 ms  
Loss rate: 0.04%

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

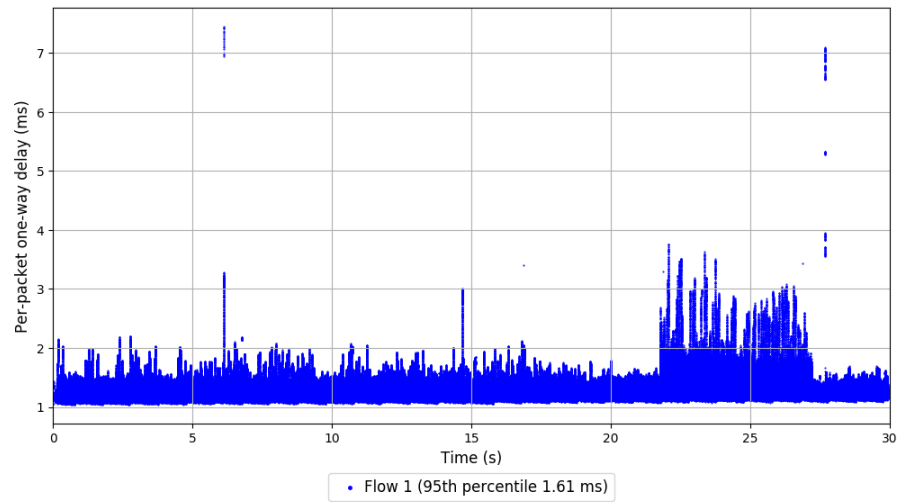
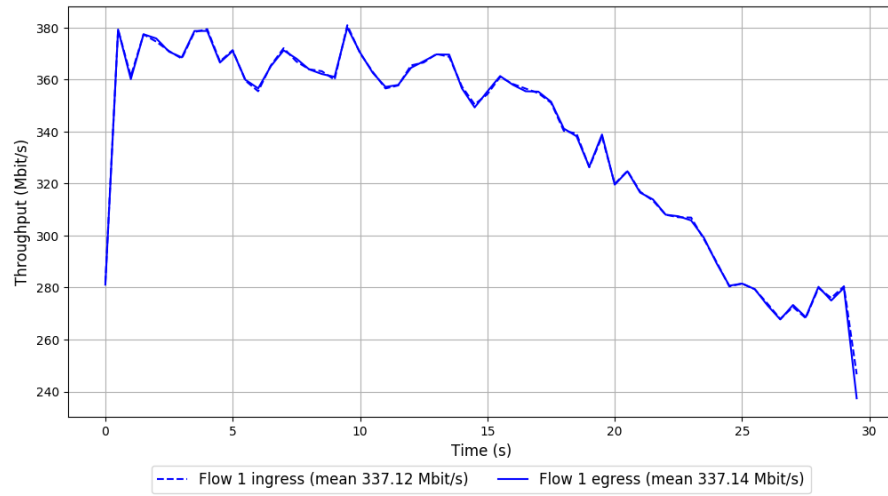


Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 05:55:13  
End at: 2018-04-24 05:55:43  
Local clock offset: -2.048 ms  
Remote clock offset: -4.976 ms

# Below is generated by plot.py at 2018-04-24 14:42:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 337.14 Mbit/s  
95th percentile per-packet one-way delay: 1.607 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 337.14 Mbit/s  
95th percentile per-packet one-way delay: 1.607 ms  
Loss rate: 0.05%

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



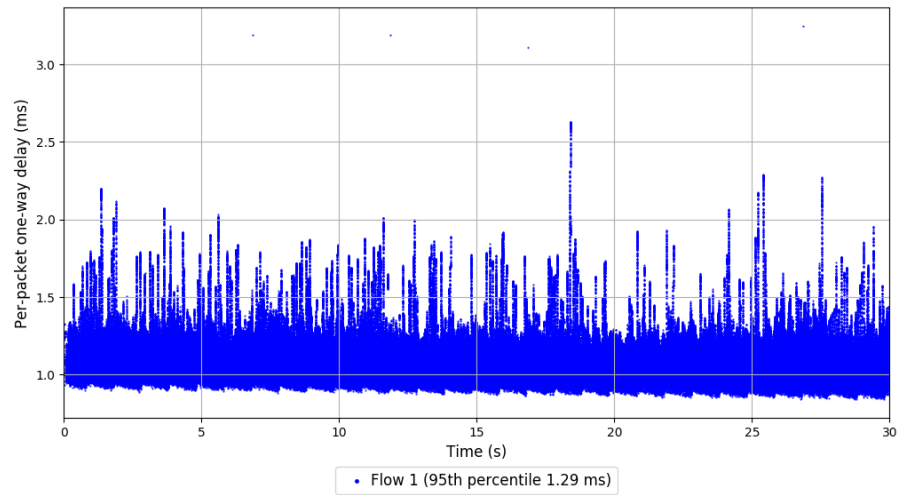
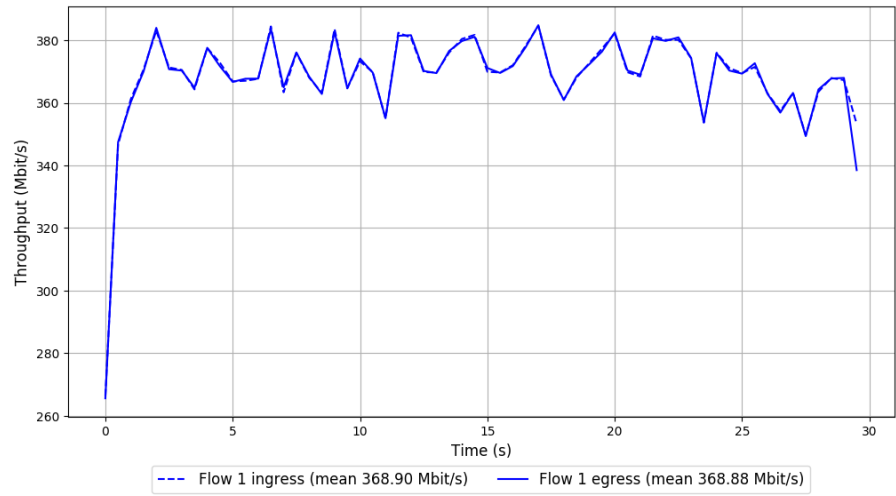
Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 06:20:29  
End at: 2018-04-24 06:20:59  
Local clock offset: -1.679 ms  
Remote clock offset: -6.763 ms

# Below is generated by plot.py at 2018-04-24 14:42:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 368.88 Mbit/s  
95th percentile per-packet one-way delay: 1.292 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 368.88 Mbit/s  
95th percentile per-packet one-way delay: 1.292 ms  
Loss rate: 0.07%



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

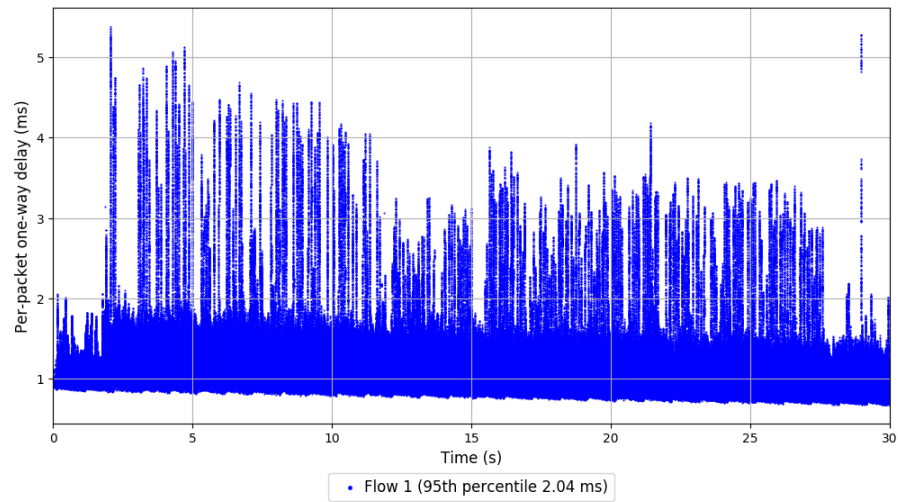
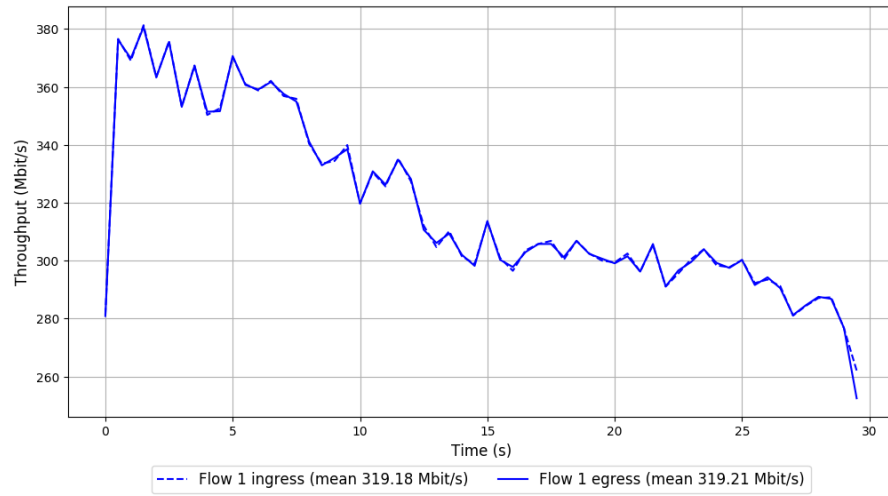


Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 06:45:50  
End at: 2018-04-24 06:46:20  
Local clock offset: -1.737 ms  
Remote clock offset: -7.189 ms

# Below is generated by plot.py at 2018-04-24 14:42:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 319.21 Mbit/s  
95th percentile per-packet one-way delay: 2.045 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 319.21 Mbit/s  
95th percentile per-packet one-way delay: 2.045 ms  
Loss rate: 0.05%

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

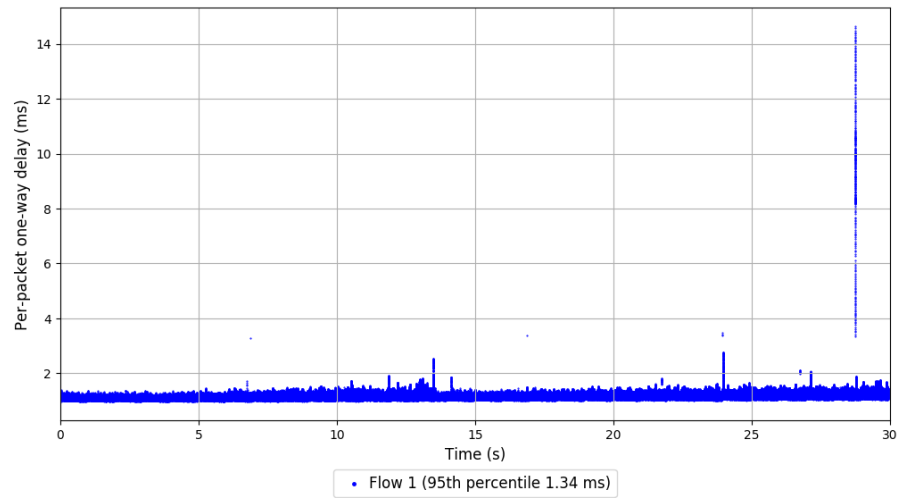
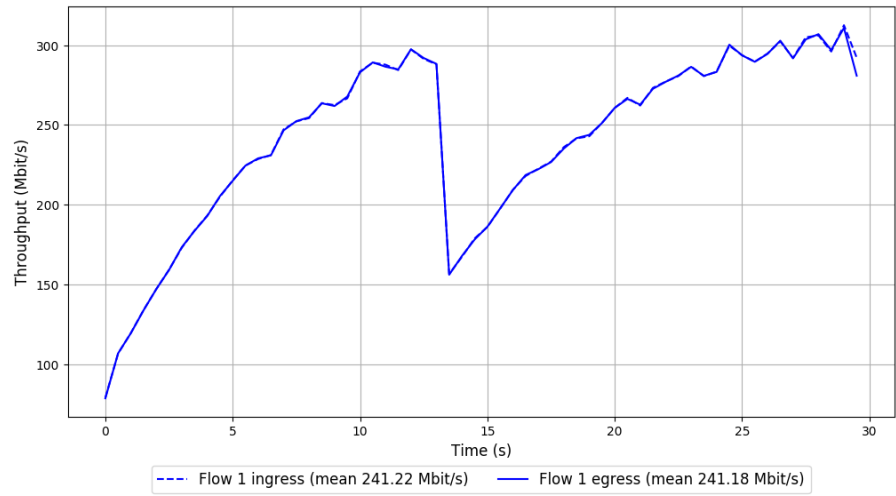


Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 07:11:21  
End at: 2018-04-24 07:11:51  
Local clock offset: 0.89 ms  
Remote clock offset: -6.356 ms

# Below is generated by plot.py at 2018-04-24 14:44:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 241.18 Mbit/s  
95th percentile per-packet one-way delay: 1.343 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 241.18 Mbit/s  
95th percentile per-packet one-way delay: 1.343 ms  
Loss rate: 0.09%

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

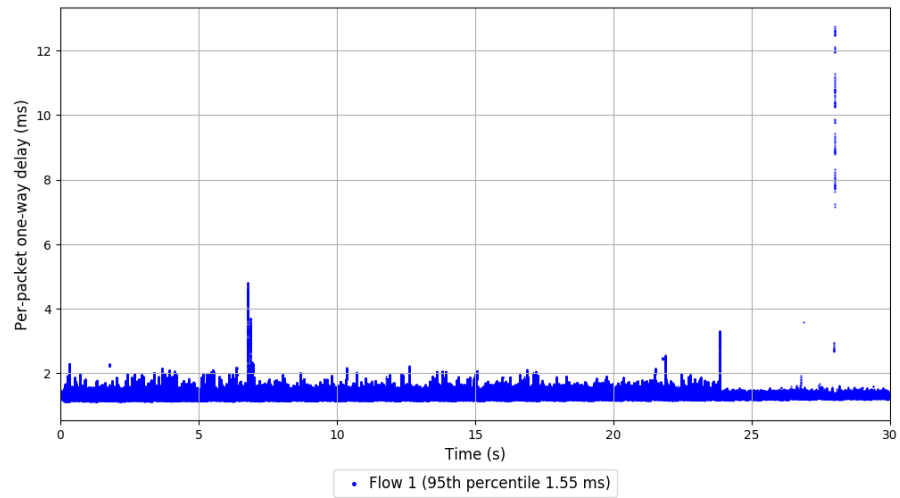
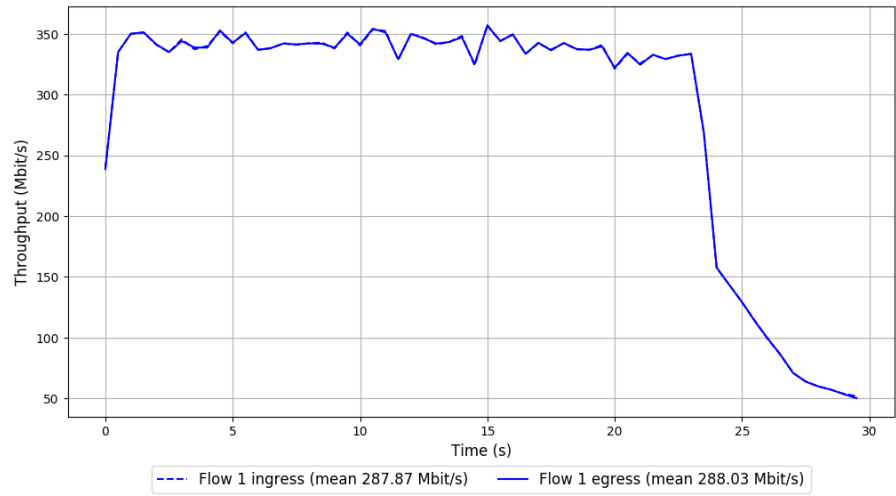


Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 07:36:36  
End at: 2018-04-24 07:37:06  
Local clock offset: -0.777 ms  
Remote clock offset: -4.808 ms

# Below is generated by plot.py at 2018-04-24 14:44:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 288.03 Mbit/s  
95th percentile per-packet one-way delay: 1.550 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 288.03 Mbit/s  
95th percentile per-packet one-way delay: 1.550 ms  
Loss rate: 0.01%

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



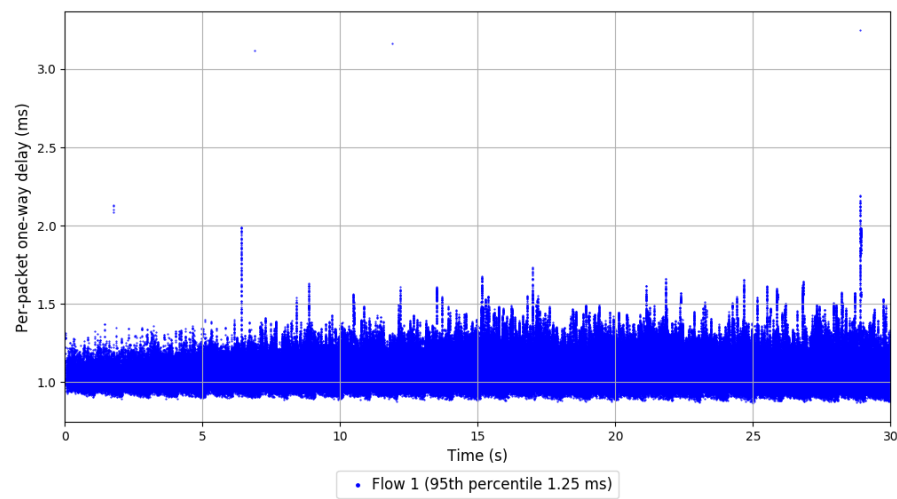
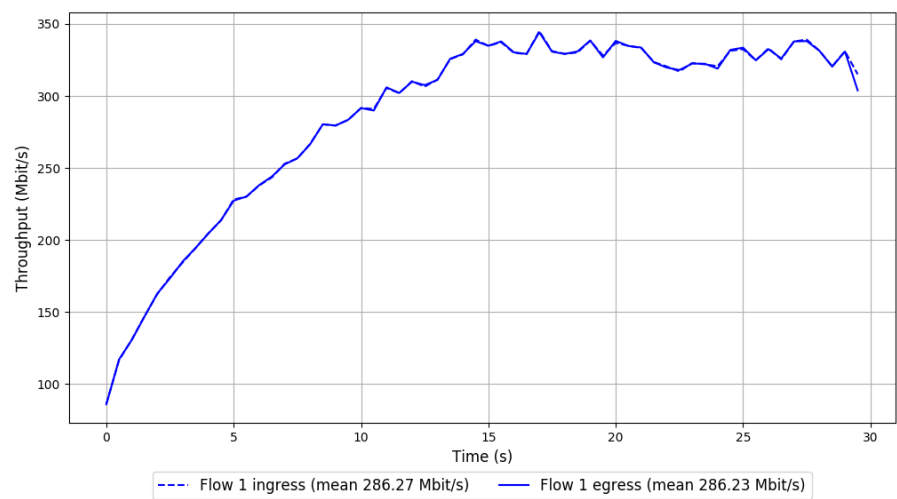
Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 08:01:53  
End at: 2018-04-24 08:02:23  
Local clock offset: -1.305 ms  
Remote clock offset: -6.219 ms

# Below is generated by plot.py at 2018-04-24 14:44:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 286.23 Mbit/s  
95th percentile per-packet one-way delay: 1.247 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 286.23 Mbit/s  
95th percentile per-packet one-way delay: 1.247 ms  
Loss rate: 0.07%



Run 7: Report of TCP Vegas — Data Link

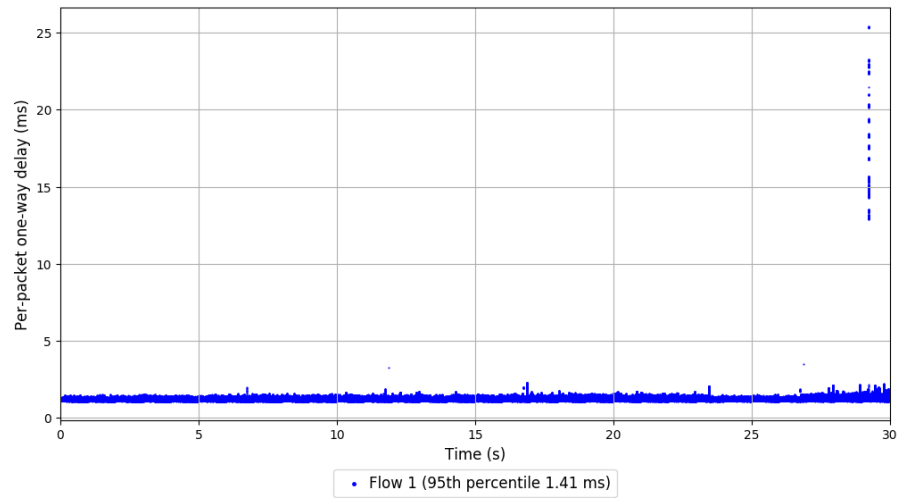
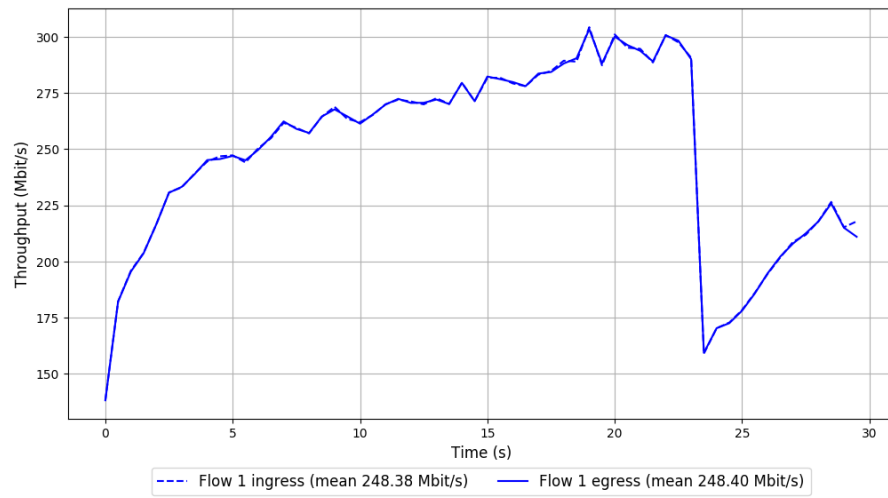


Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 08:27:20  
End at: 2018-04-24 08:27:50  
Local clock offset: -1.346 ms  
Remote clock offset: -6.357 ms

# Below is generated by plot.py at 2018-04-24 14:44:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 248.40 Mbit/s  
95th percentile per-packet one-way delay: 1.412 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 248.40 Mbit/s  
95th percentile per-packet one-way delay: 1.412 ms  
Loss rate: 0.06%

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

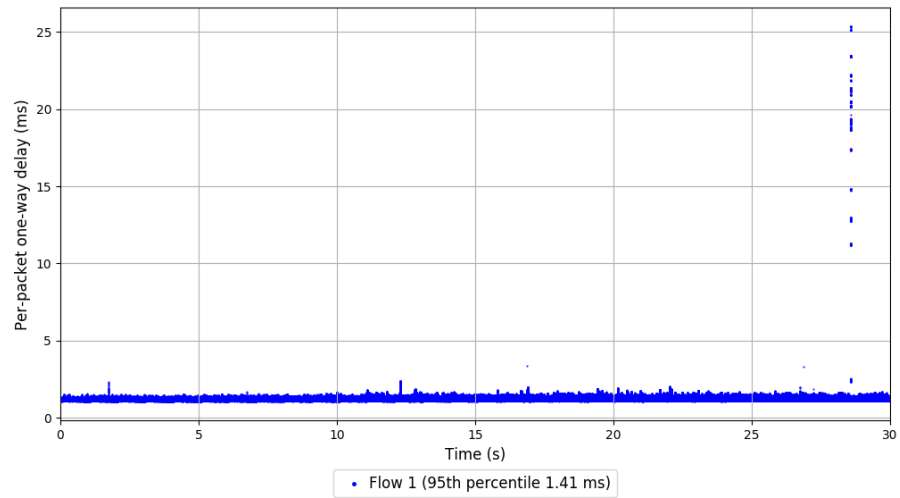
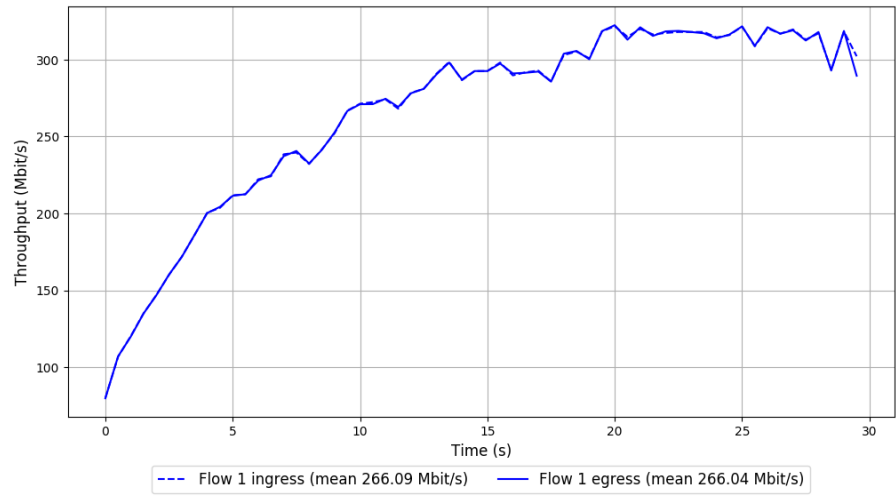


Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 08:52:30  
End at: 2018-04-24 08:53:00  
Local clock offset: -0.688 ms  
Remote clock offset: -5.979 ms

# Below is generated by plot.py at 2018-04-24 14:45:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 266.04 Mbit/s  
95th percentile per-packet one-way delay: 1.411 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 266.04 Mbit/s  
95th percentile per-packet one-way delay: 1.411 ms  
Loss rate: 0.08%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 09:17:48

End at: 2018-04-24 09:18:18

Local clock offset: -0.431 ms

Remote clock offset: -5.043 ms

# Below is generated by plot.py at 2018-04-24 14:47:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 347.43 Mbit/s

95th percentile per-packet one-way delay: 1.692 ms

Loss rate: 0.07%

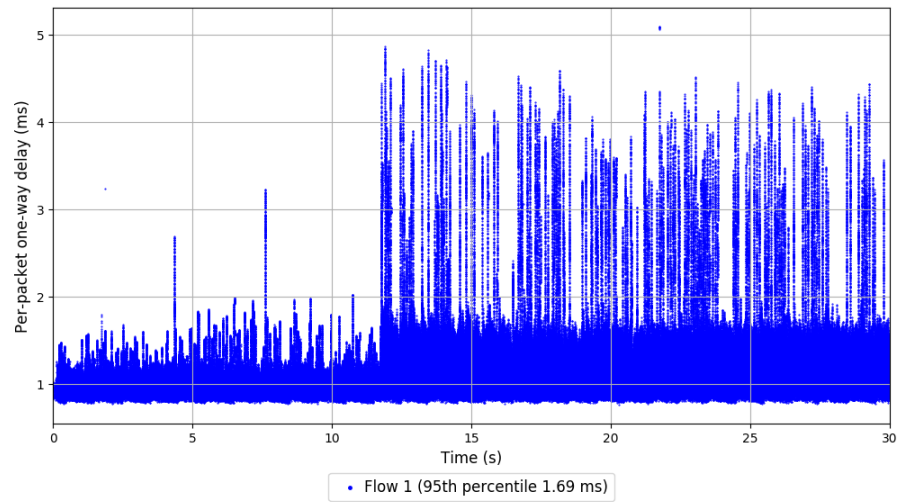
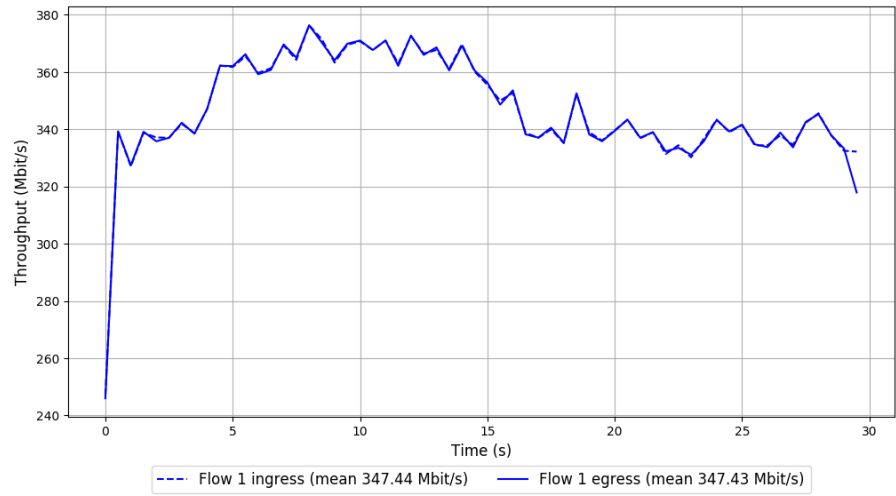
-- Flow 1:

Average throughput: 347.43 Mbit/s

95th percentile per-packet one-way delay: 1.692 ms

Loss rate: 0.07%

# Run 10: Report of TCP Vegas — Data Link



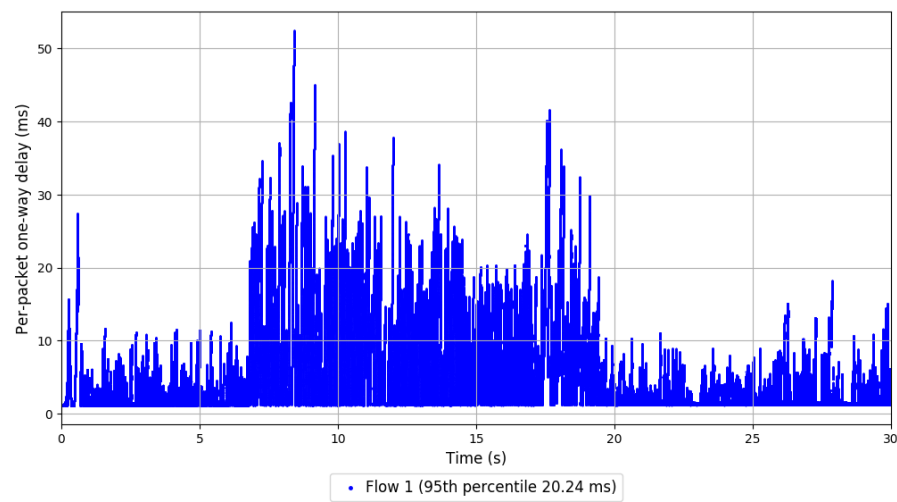
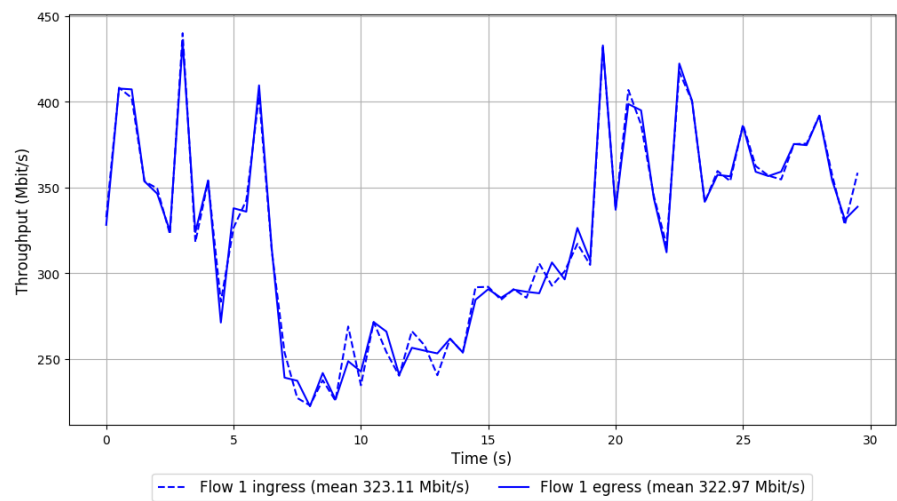
Run 1: Statistics of Verus

Start at: 2018-04-24 05:17:48  
End at: 2018-04-24 05:18:19  
Local clock offset: -0.73 ms  
Remote clock offset: -5.104 ms

# Below is generated by plot.py at 2018-04-24 14:47:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 322.97 Mbit/s  
95th percentile per-packet one-way delay: 20.243 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 322.97 Mbit/s  
95th percentile per-packet one-way delay: 20.243 ms  
Loss rate: 0.11%



Run 1: Report of Verus — Data Link

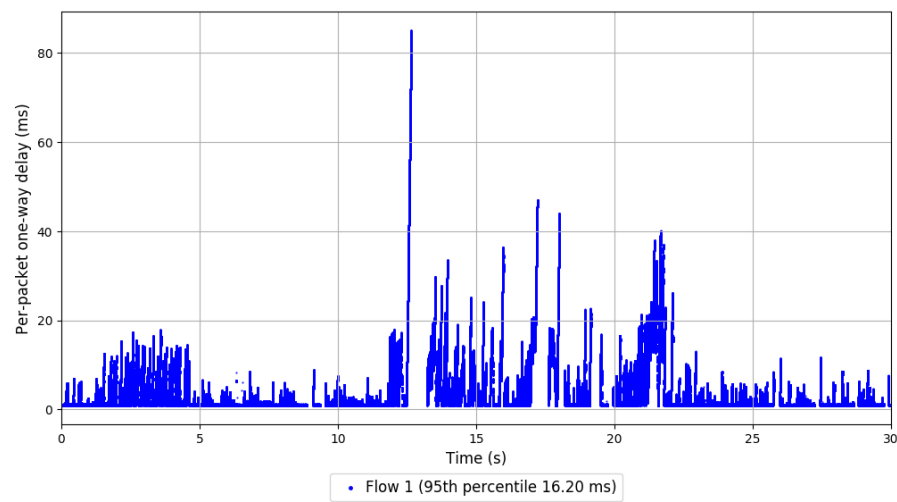
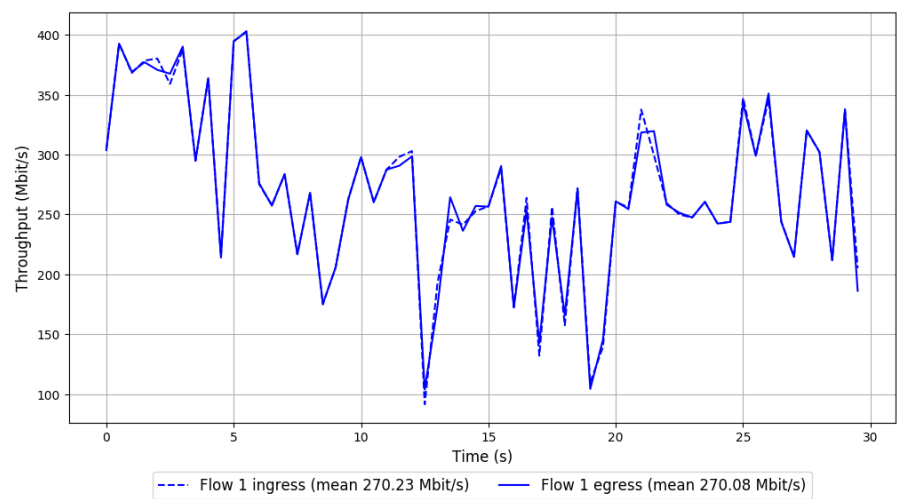


Run 2: Statistics of Verus

Start at: 2018-04-24 05:43:16  
End at: 2018-04-24 05:43:46  
Local clock offset: -1.71 ms  
Remote clock offset: -5.028 ms

# Below is generated by plot.py at 2018-04-24 14:47:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 270.08 Mbit/s  
95th percentile per-packet one-way delay: 16.205 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 270.08 Mbit/s  
95th percentile per-packet one-way delay: 16.205 ms  
Loss rate: 0.12%

Run 2: Report of Verus — Data Link

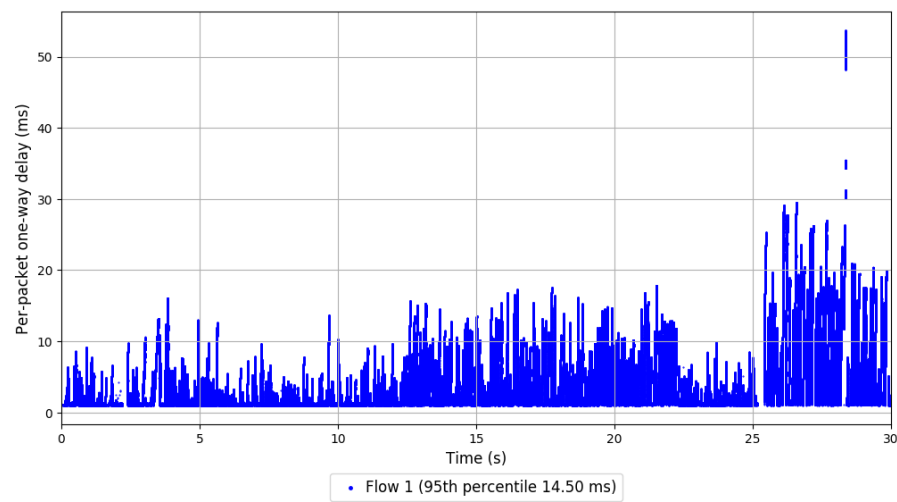
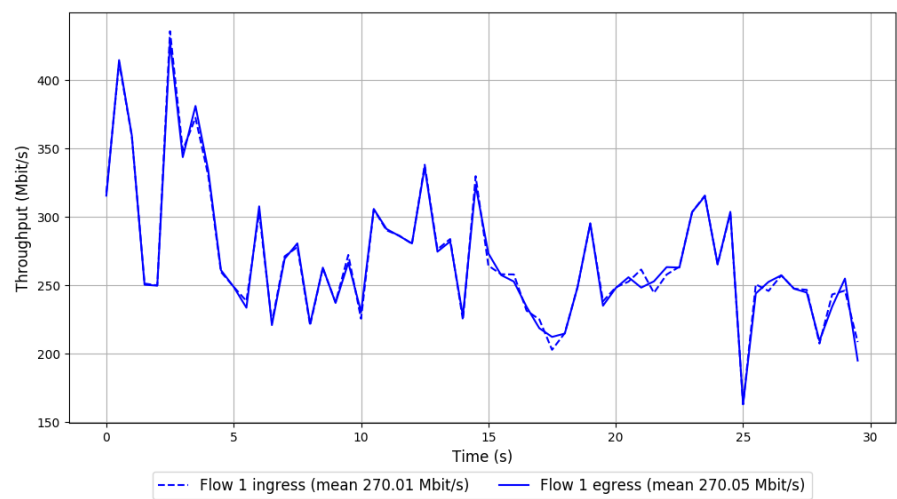


Run 3: Statistics of Verus

Start at: 2018-04-24 06:08:34  
End at: 2018-04-24 06:09:04  
Local clock offset: -3.56 ms  
Remote clock offset: -6.232 ms

# Below is generated by plot.py at 2018-04-24 14:48:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 270.05 Mbit/s  
95th percentile per-packet one-way delay: 14.497 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 270.05 Mbit/s  
95th percentile per-packet one-way delay: 14.497 ms  
Loss rate: 0.08%

Run 3: Report of Verus — Data Link

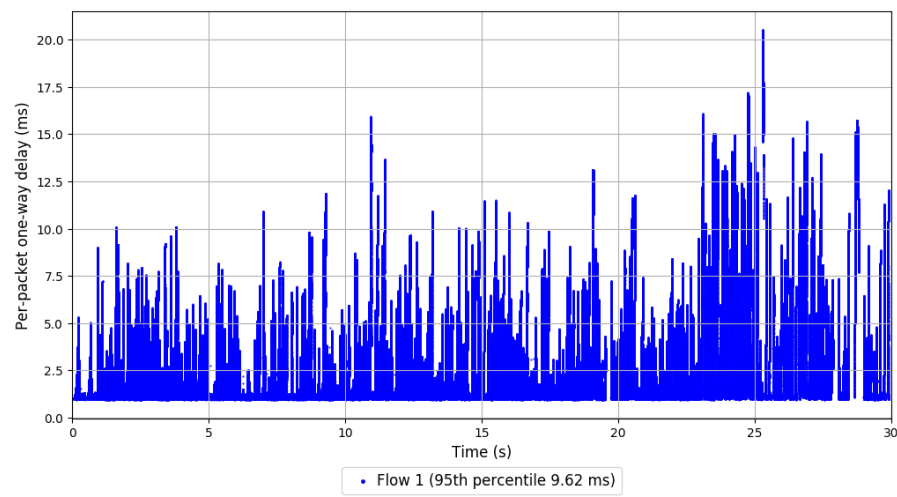
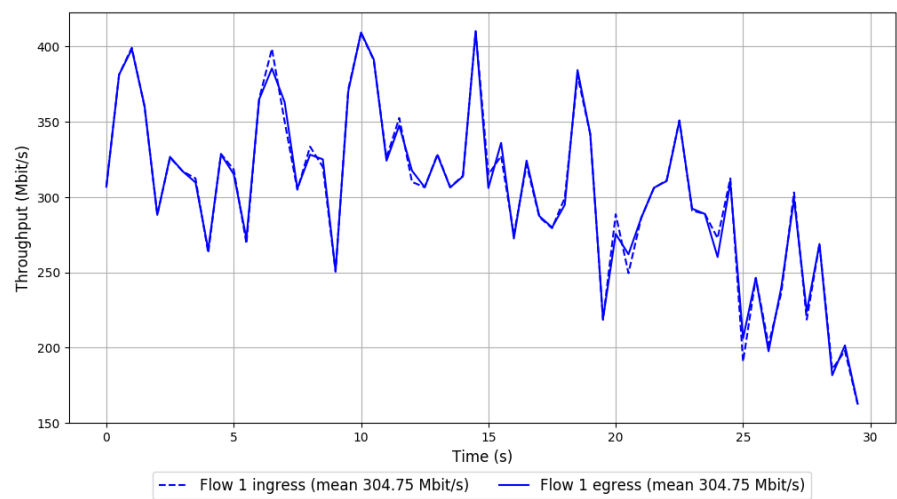


Run 4: Statistics of Verus

Start at: 2018-04-24 06:33:52  
End at: 2018-04-24 06:34:22  
Local clock offset: -1.319 ms  
Remote clock offset: -7.071 ms

# Below is generated by plot.py at 2018-04-24 14:49:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 304.75 Mbit/s  
95th percentile per-packet one-way delay: 9.618 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 304.75 Mbit/s  
95th percentile per-packet one-way delay: 9.618 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



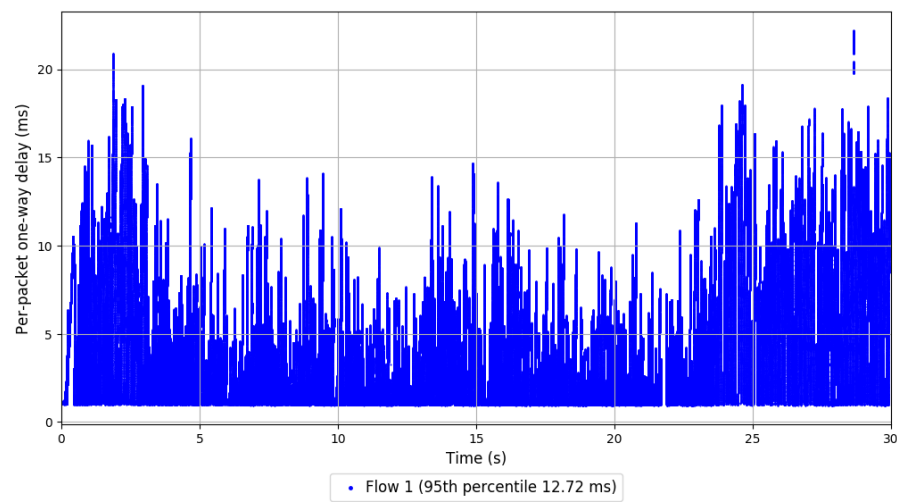
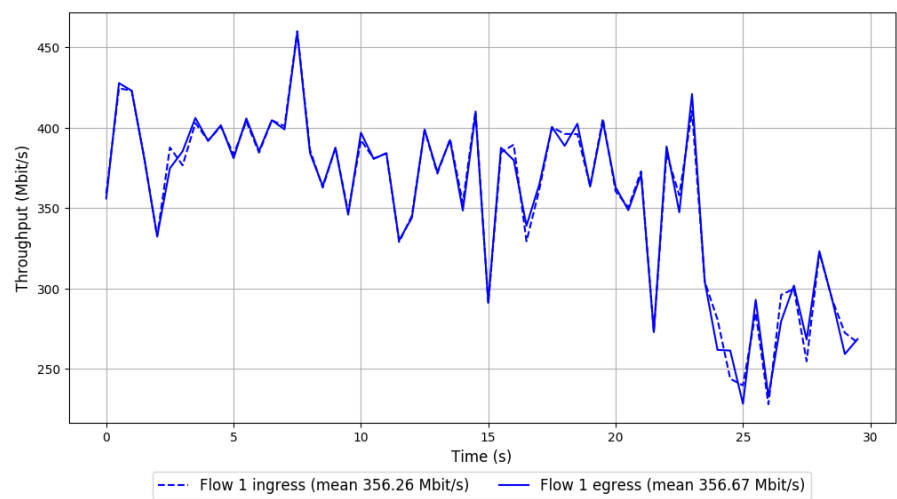
Run 5: Statistics of Verus

Start at: 2018-04-24 06:59:16  
End at: 2018-04-24 06:59:46  
Local clock offset: 0.543 ms  
Remote clock offset: -7.527 ms

# Below is generated by plot.py at 2018-04-24 14:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 356.67 Mbit/s  
95th percentile per-packet one-way delay: 12.716 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 356.67 Mbit/s  
95th percentile per-packet one-way delay: 12.716 ms  
Loss rate: 0.05%



Run 5: Report of Verus — Data Link

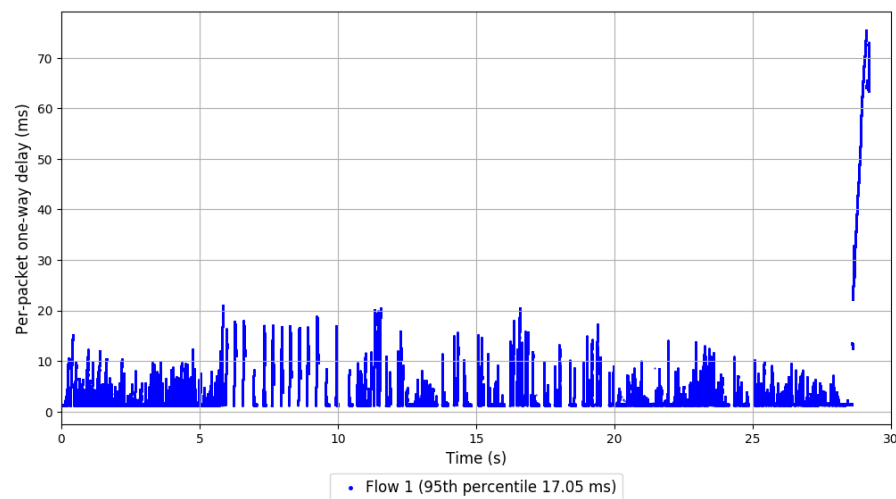
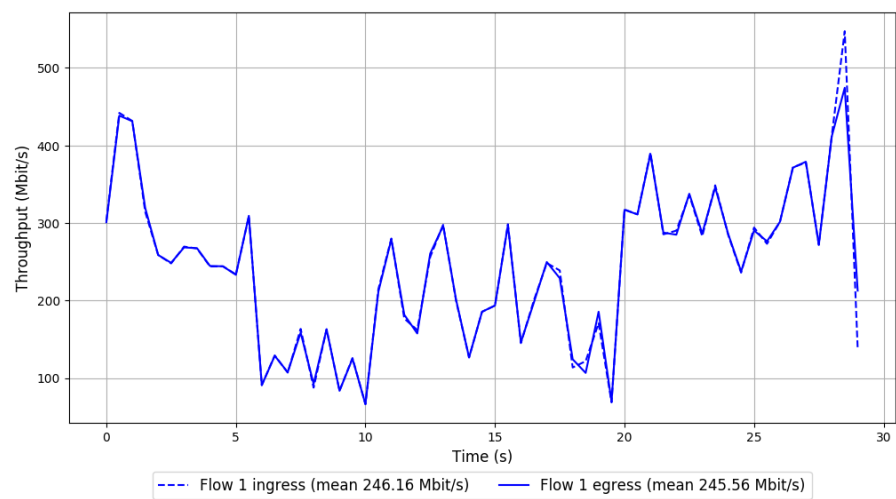


Run 6: Statistics of Verus

Start at: 2018-04-24 07:24:42  
End at: 2018-04-24 07:25:12  
Local clock offset: 0.267 ms  
Remote clock offset: -5.238 ms

# Below is generated by plot.py at 2018-04-24 14:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 245.56 Mbit/s  
95th percentile per-packet one-way delay: 17.051 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 245.56 Mbit/s  
95th percentile per-packet one-way delay: 17.051 ms  
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

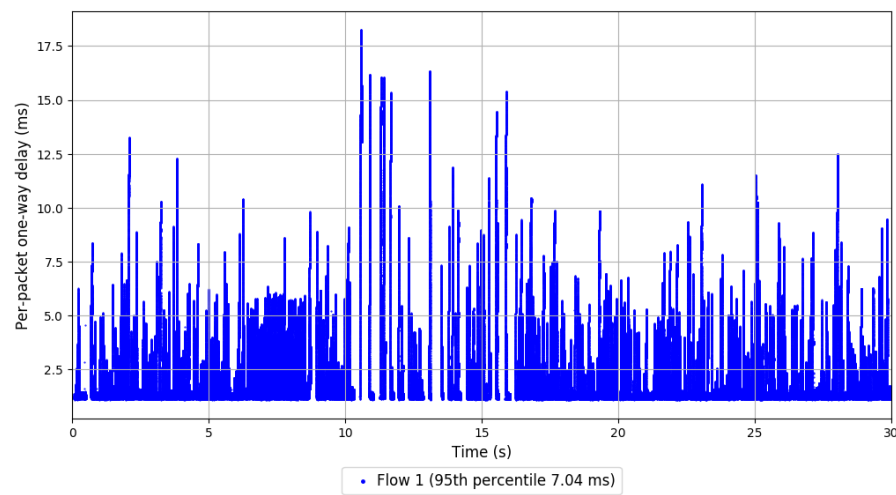
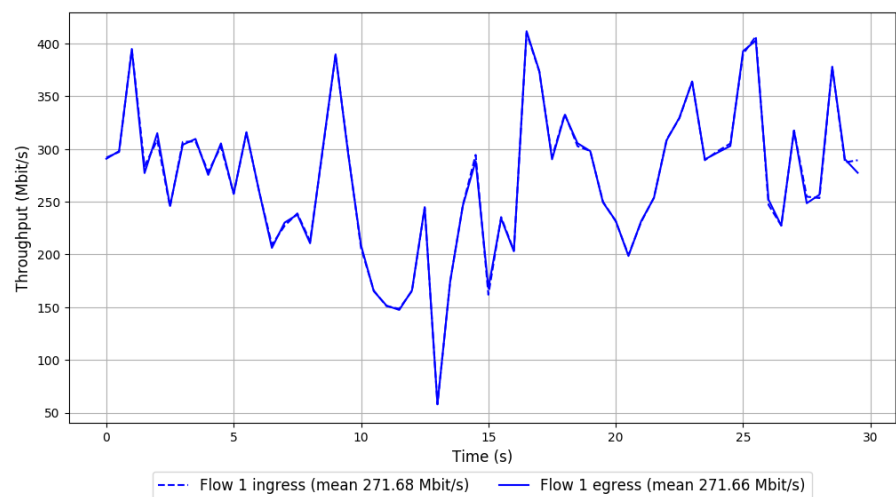


Run 7: Statistics of Verus

Start at: 2018-04-24 07:50:00  
End at: 2018-04-24 07:50:30  
Local clock offset: -1.574 ms  
Remote clock offset: -5.782 ms

# Below is generated by plot.py at 2018-04-24 14:50:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 271.66 Mbit/s  
95th percentile per-packet one-way delay: 7.041 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 271.66 Mbit/s  
95th percentile per-packet one-way delay: 7.041 ms  
Loss rate: 0.08%

Run 7: Report of Verus — Data Link

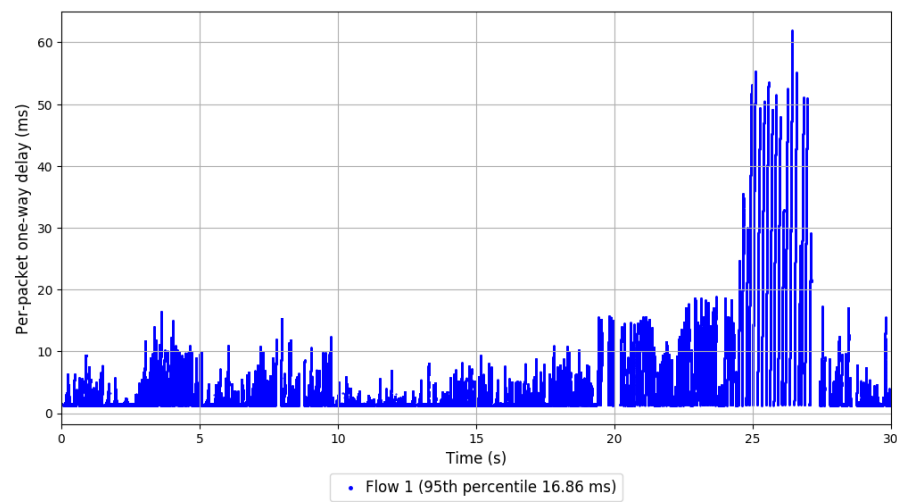
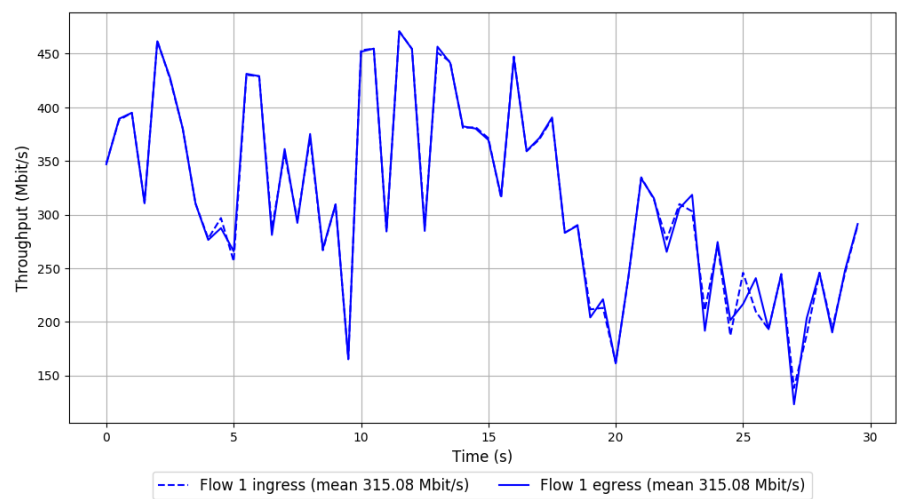


Run 8: Statistics of Verus

Start at: 2018-04-24 08:15:21  
End at: 2018-04-24 08:15:51  
Local clock offset: -0.938 ms  
Remote clock offset: -6.318 ms

# Below is generated by plot.py at 2018-04-24 14:51:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 315.08 Mbit/s  
95th percentile per-packet one-way delay: 16.857 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 315.08 Mbit/s  
95th percentile per-packet one-way delay: 16.857 ms  
Loss rate: 0.00%

Run 8: Report of Verus — Data Link



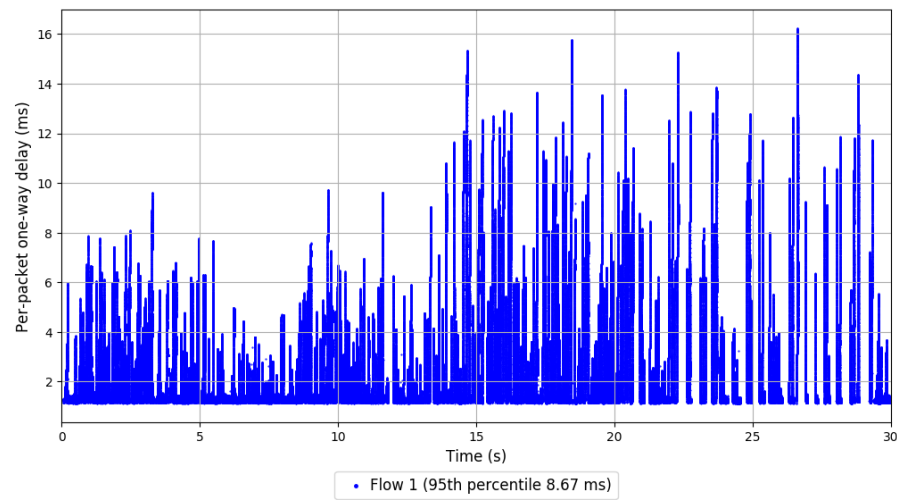
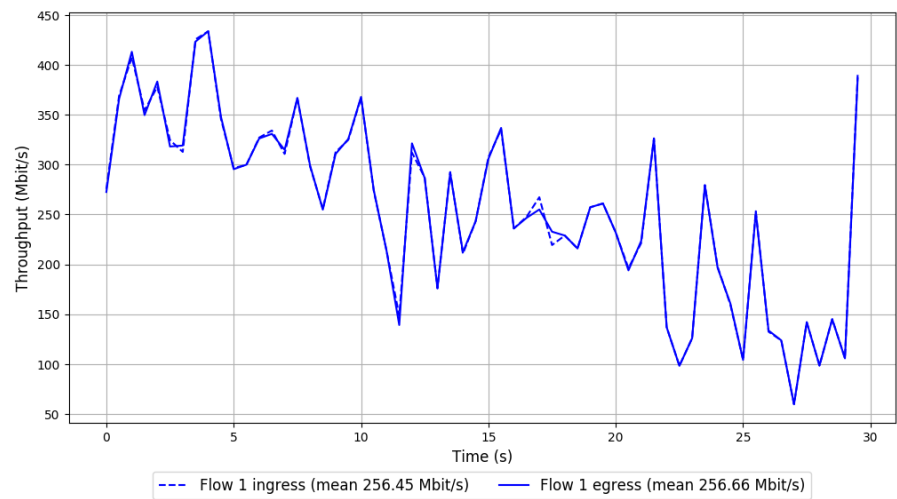
Run 9: Statistics of Verus

Start at: 2018-04-24 08:40:38  
End at: 2018-04-24 08:41:08  
Local clock offset: -0.573 ms  
Remote clock offset: -6.301 ms

# Below is generated by plot.py at 2018-04-24 14:51:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 256.66 Mbit/s  
95th percentile per-packet one-way delay: 8.673 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 256.66 Mbit/s  
95th percentile per-packet one-way delay: 8.673 ms  
Loss rate: 0.02%



Run 9: Report of Verus — Data Link

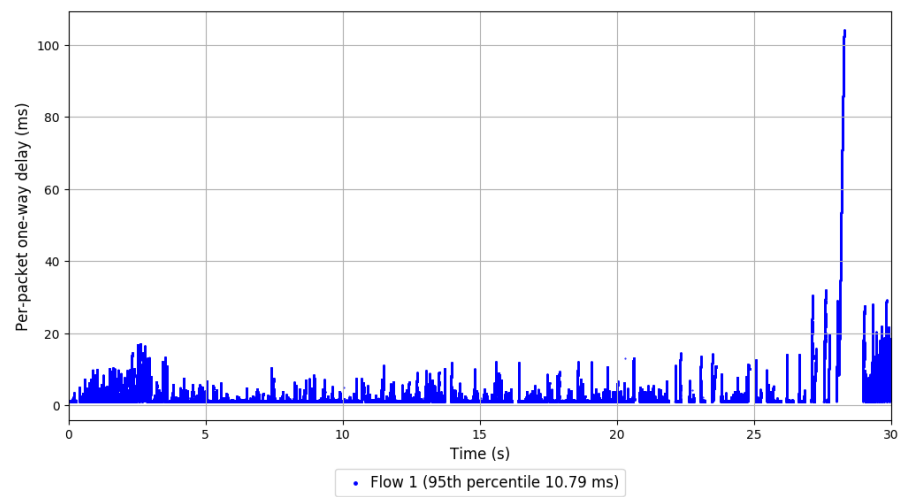
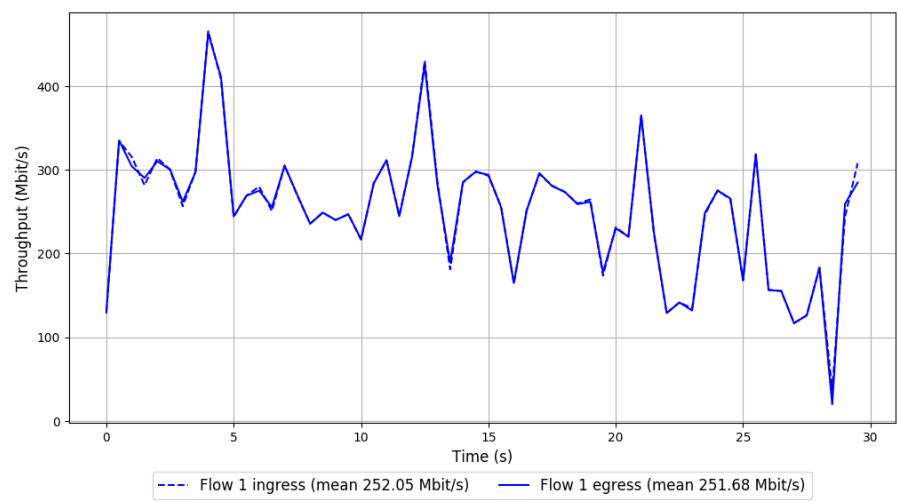


Run 10: Statistics of Verus

Start at: 2018-04-24 09:05:49  
End at: 2018-04-24 09:06:19  
Local clock offset: -0.614 ms  
Remote clock offset: -5.388 ms

# Below is generated by plot.py at 2018-04-24 14:51:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 251.68 Mbit/s  
95th percentile per-packet one-way delay: 10.787 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 251.68 Mbit/s  
95th percentile per-packet one-way delay: 10.787 ms  
Loss rate: 0.16%

Run 10: Report of Verus — Data Link

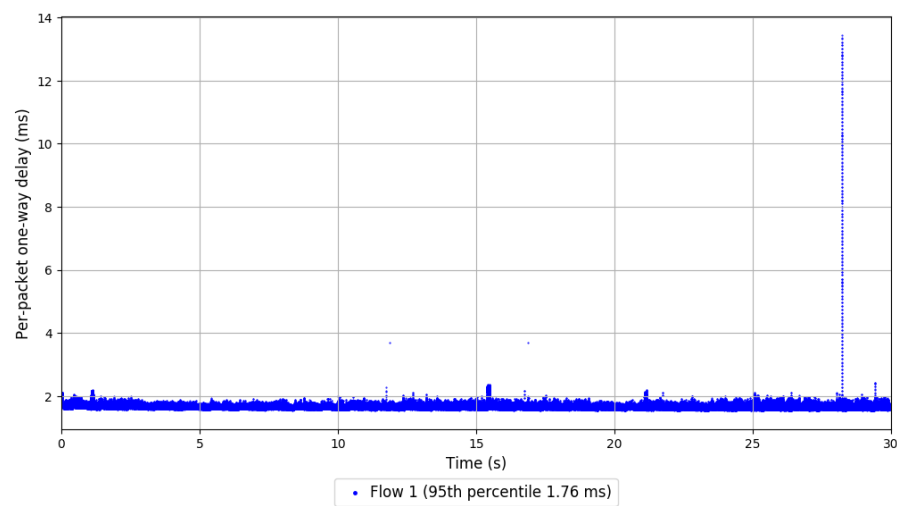
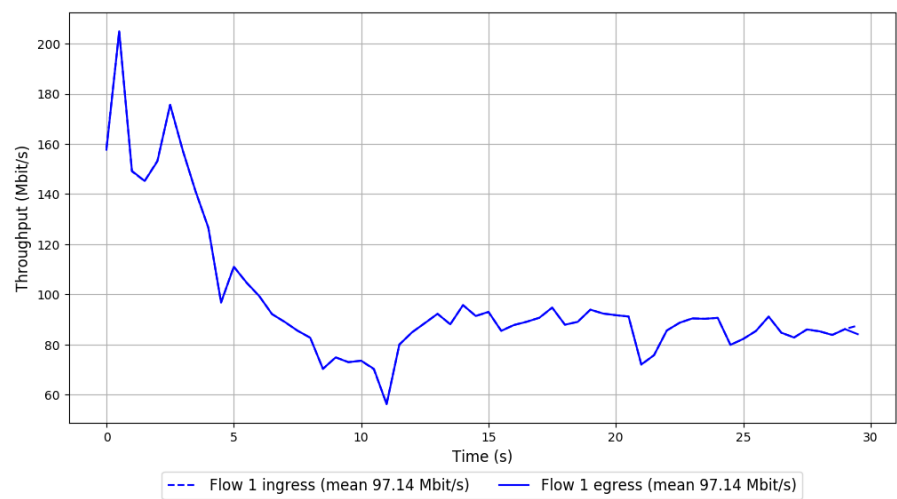


Run 1: Statistics of Copa

Start at: 2018-04-24 05:07:32  
End at: 2018-04-24 05:08:02  
Local clock offset: -0.011 ms  
Remote clock offset: -5.378 ms

# Below is generated by plot.py at 2018-04-24 14:51:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.14 Mbit/s  
95th percentile per-packet one-way delay: 1.763 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 97.14 Mbit/s  
95th percentile per-packet one-way delay: 1.763 ms  
Loss rate: 0.06%

Run 1: Report of Copa — Data Link

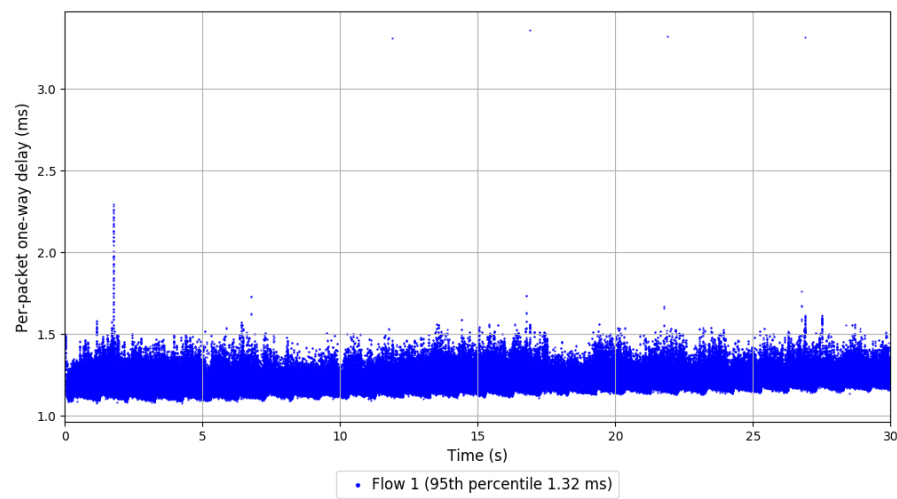
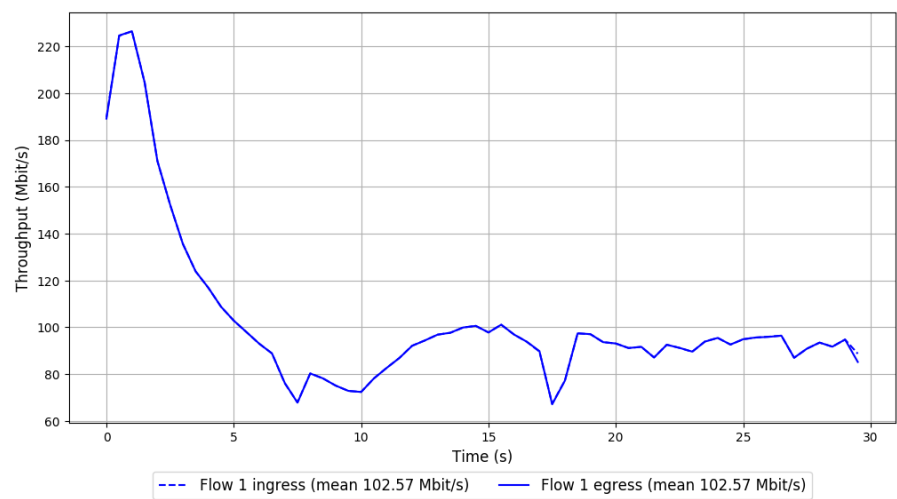


Run 2: Statistics of Copa

Start at: 2018-04-24 05:33:05  
End at: 2018-04-24 05:33:35  
Local clock offset: -1.645 ms  
Remote clock offset: -5.229 ms

# Below is generated by plot.py at 2018-04-24 14:51:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 102.57 Mbit/s  
95th percentile per-packet one-way delay: 1.325 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 102.57 Mbit/s  
95th percentile per-packet one-way delay: 1.325 ms  
Loss rate: 0.06%

Run 2: Report of Copa — Data Link



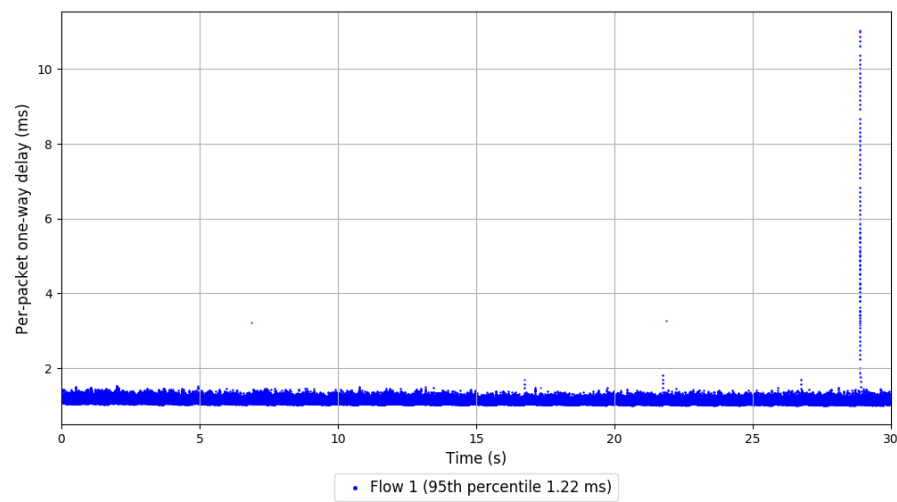
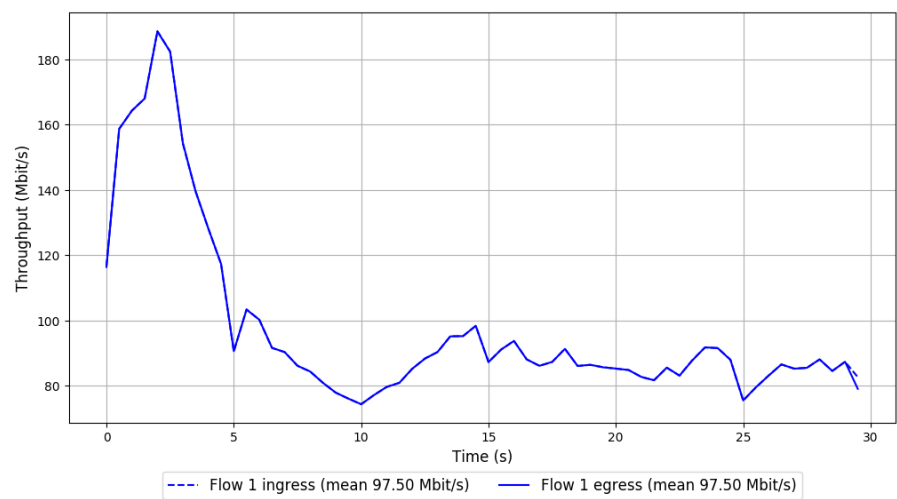
Run 3: Statistics of Copa

Start at: 2018-04-24 05:58:27  
End at: 2018-04-24 05:58:57  
Local clock offset: -2.324 ms  
Remote clock offset: -5.136 ms

# Below is generated by plot.py at 2018-04-24 14:52:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 1.223 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 97.50 Mbit/s  
95th percentile per-packet one-way delay: 1.223 ms  
Loss rate: 0.06%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-24 06:23:46

End at: 2018-04-24 06:24:16

Local clock offset: -1.455 ms

Remote clock offset: -6.81 ms

# Below is generated by plot.py at 2018-04-24 14:52:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 100.39 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 0.07%

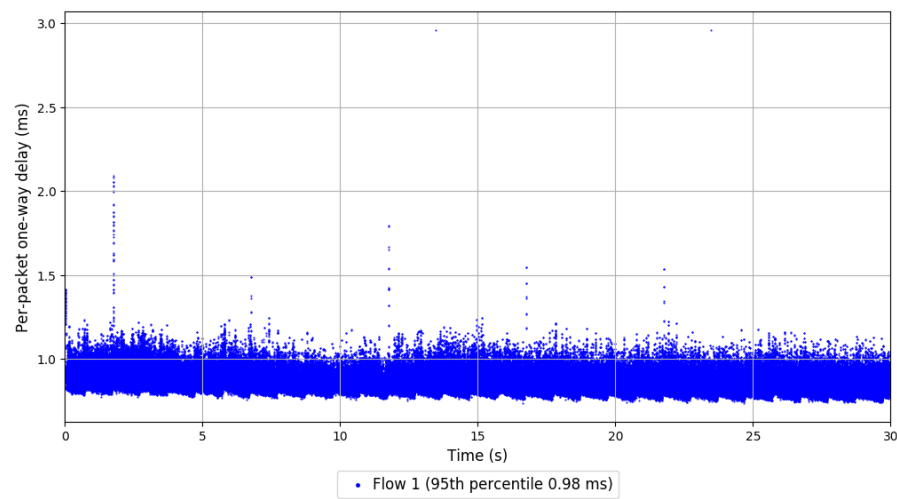
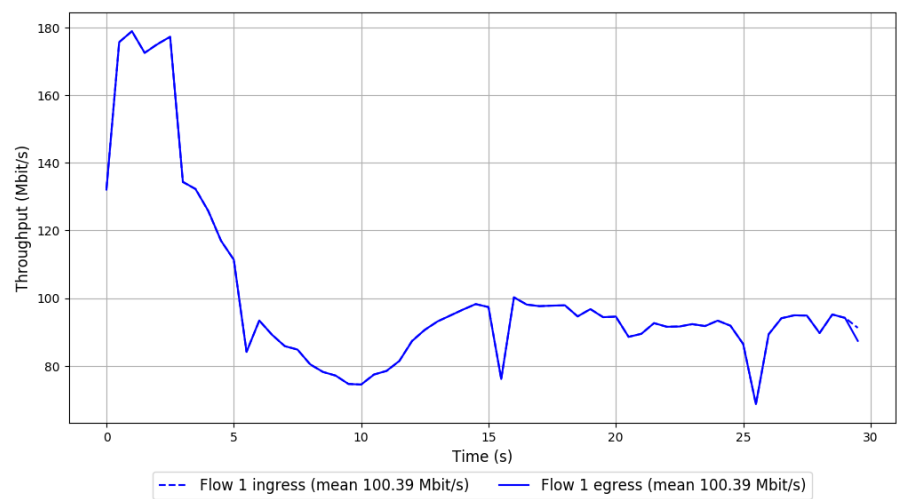
-- Flow 1:

Average throughput: 100.39 Mbit/s

95th percentile per-packet one-way delay: 0.977 ms

Loss rate: 0.07%

Run 4: Report of Copa — Data Link

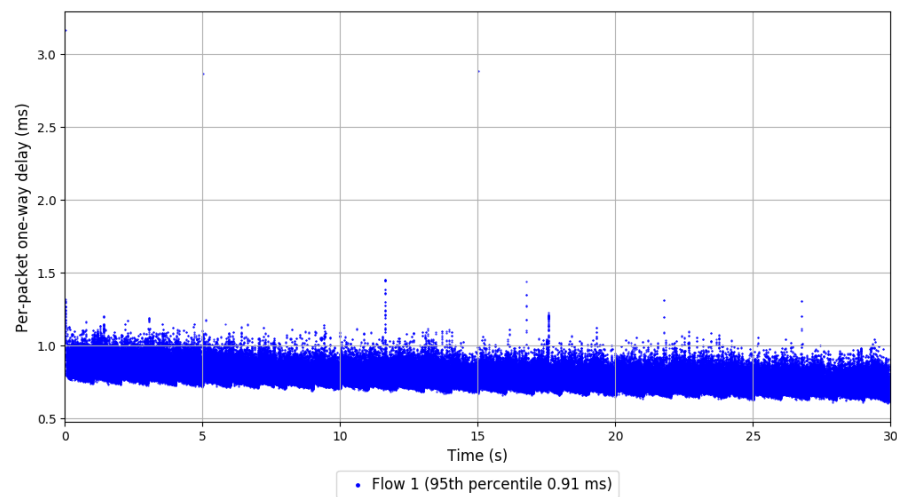
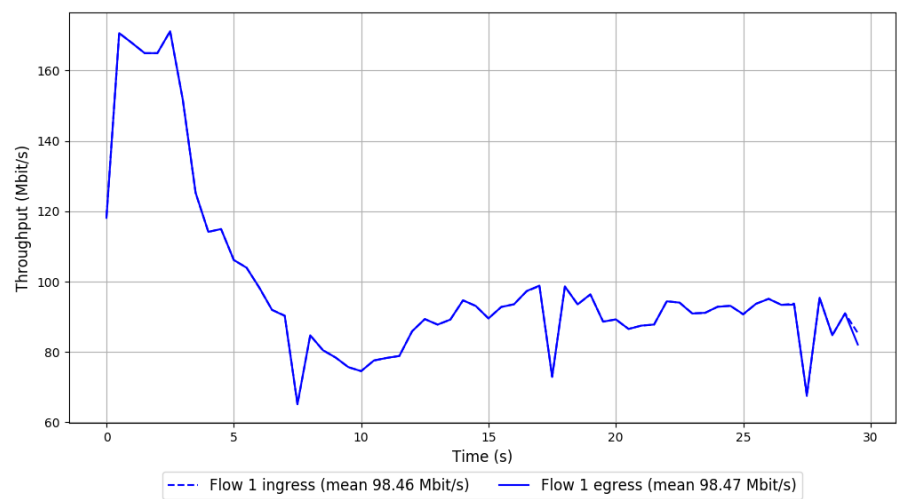


Run 5: Statistics of Copa

Start at: 2018-04-24 06:49:04  
End at: 2018-04-24 06:49:34  
Local clock offset: -0.971 ms  
Remote clock offset: -7.349 ms

# Below is generated by plot.py at 2018-04-24 14:53:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 98.47 Mbit/s  
95th percentile per-packet one-way delay: 0.909 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 98.47 Mbit/s  
95th percentile per-packet one-way delay: 0.909 ms  
Loss rate: 0.06%

Run 5: Report of Copa — Data Link

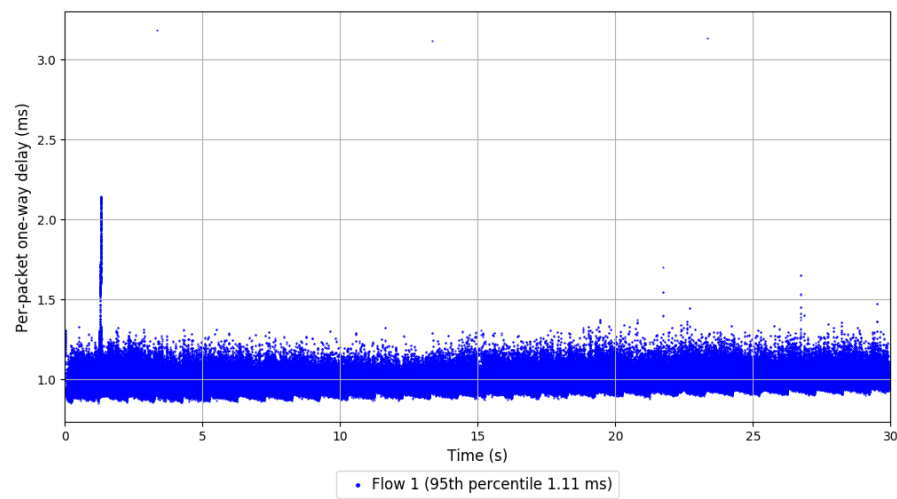
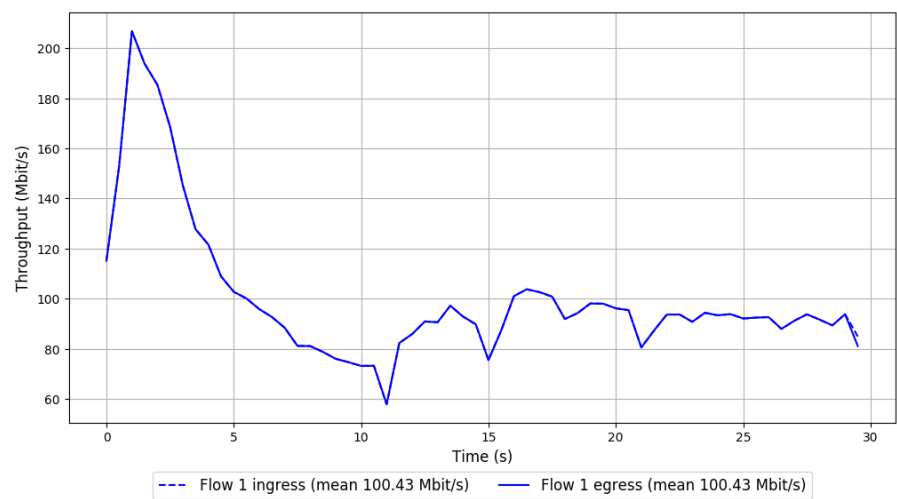


Run 6: Statistics of Copa

Start at: 2018-04-24 07:14:30  
End at: 2018-04-24 07:15:00  
Local clock offset: 0.79 ms  
Remote clock offset: -5.956 ms

# Below is generated by plot.py at 2018-04-24 14:53:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 100.43 Mbit/s  
95th percentile per-packet one-way delay: 1.106 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 100.43 Mbit/s  
95th percentile per-packet one-way delay: 1.106 ms  
Loss rate: 0.07%

Run 6: Report of Copa — Data Link



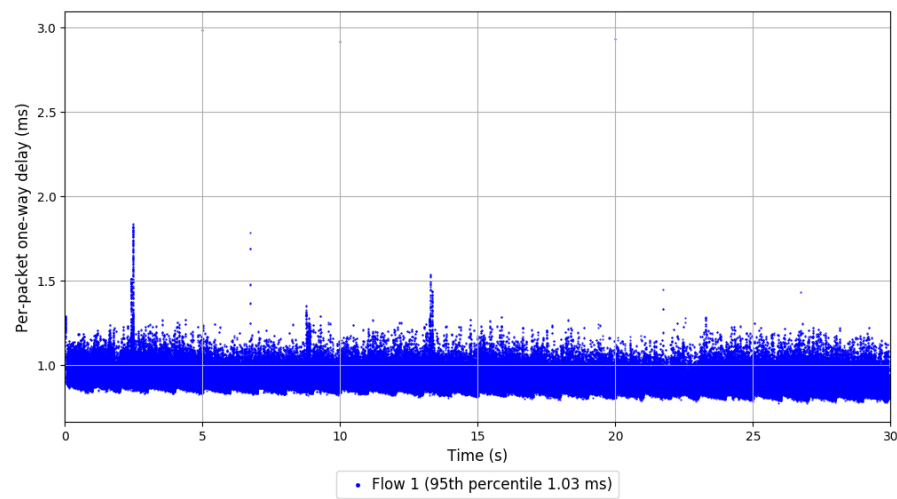
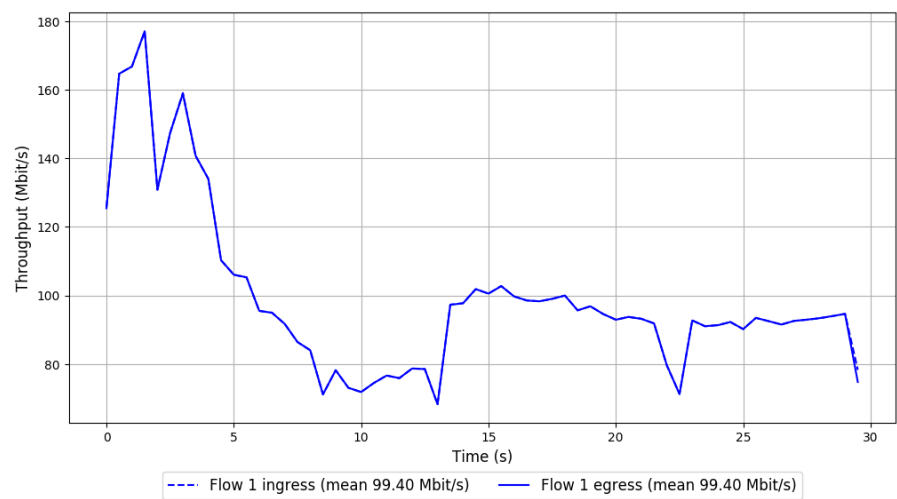
Run 7: Statistics of Copa

Start at: 2018-04-24 07:39:48  
End at: 2018-04-24 07:40:18  
Local clock offset: -1.149 ms  
Remote clock offset: -4.647 ms

# Below is generated by plot.py at 2018-04-24 14:54:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 99.40 Mbit/s  
95th percentile per-packet one-way delay: 1.029 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 99.40 Mbit/s  
95th percentile per-packet one-way delay: 1.029 ms  
Loss rate: 0.06%



Run 7: Report of Copa — Data Link

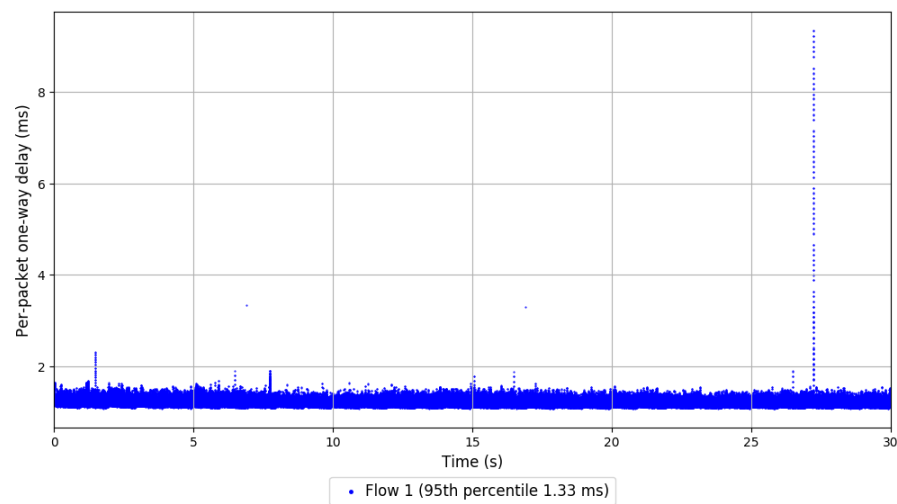
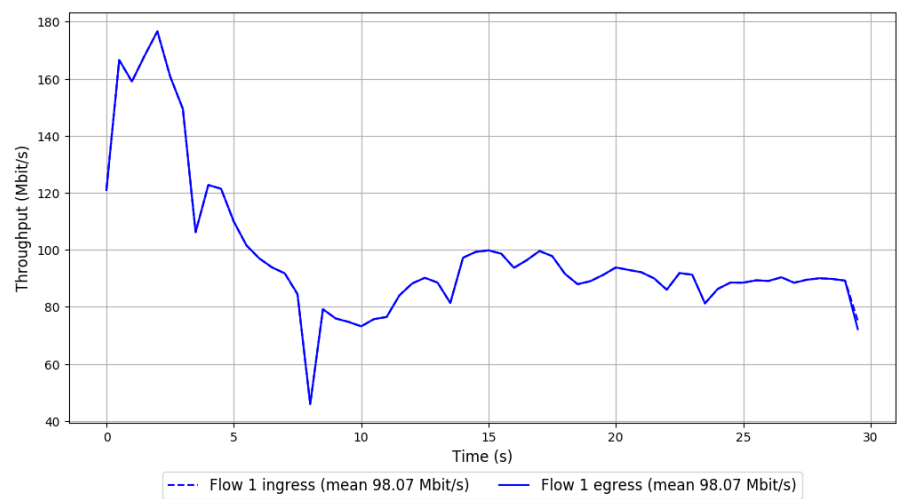


Run 8: Statistics of Copa

Start at: 2018-04-24 08:05:07  
End at: 2018-04-24 08:05:37  
Local clock offset: -0.921 ms  
Remote clock offset: -6.165 ms

# Below is generated by plot.py at 2018-04-24 14:54:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 98.07 Mbit/s  
95th percentile per-packet one-way delay: 1.335 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 98.07 Mbit/s  
95th percentile per-packet one-way delay: 1.335 ms  
Loss rate: 0.05%

Run 8: Report of Copa — Data Link

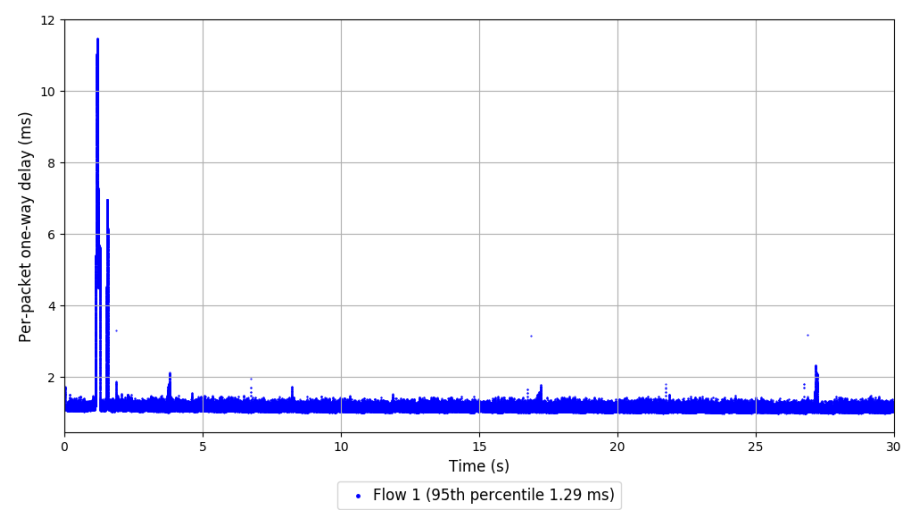
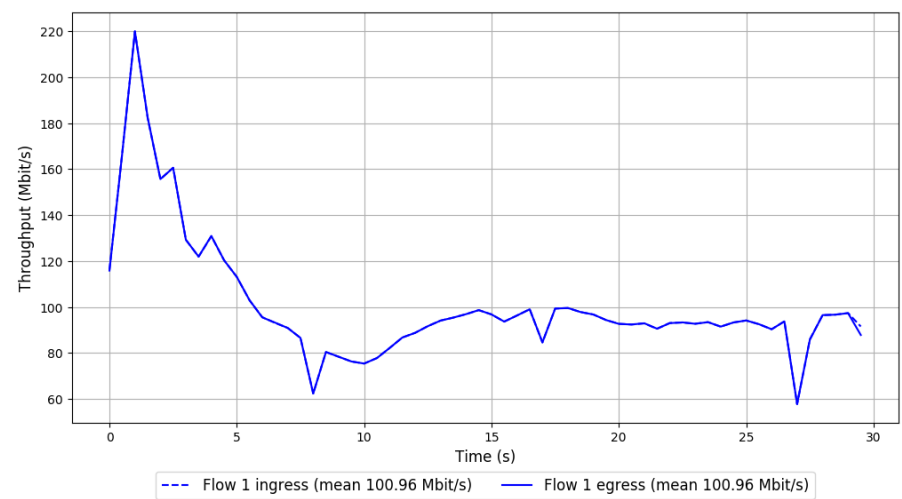


Run 9: Statistics of Copa

Start at: 2018-04-24 08:30:23  
End at: 2018-04-24 08:30:53  
Local clock offset: -1.187 ms  
Remote clock offset: -6.375 ms

# Below is generated by plot.py at 2018-04-24 14:54:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 100.96 Mbit/s  
95th percentile per-packet one-way delay: 1.287 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 100.96 Mbit/s  
95th percentile per-packet one-way delay: 1.287 ms  
Loss rate: 0.07%

Run 9: Report of Copa — Data Link

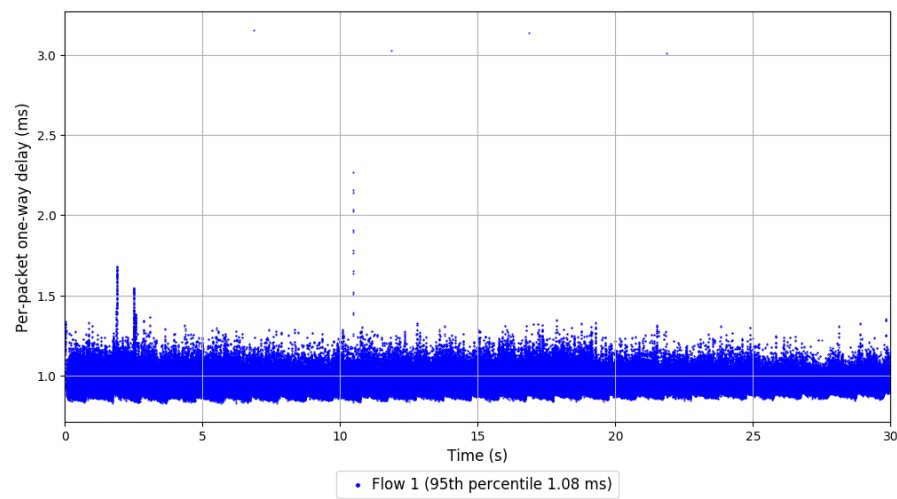
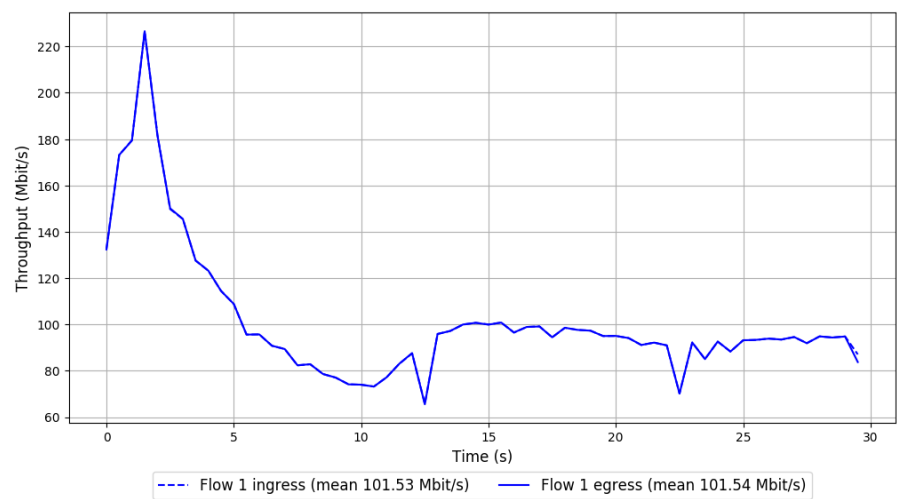


Run 10: Statistics of Copa

Start at: 2018-04-24 08:55:37  
End at: 2018-04-24 08:56:07  
Local clock offset: -0.822 ms  
Remote clock offset: -5.698 ms

# Below is generated by plot.py at 2018-04-24 14:54:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 101.54 Mbit/s  
95th percentile per-packet one-way delay: 1.078 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 101.54 Mbit/s  
95th percentile per-packet one-way delay: 1.078 ms  
Loss rate: 0.06%

Run 10: Report of Copa — Data Link



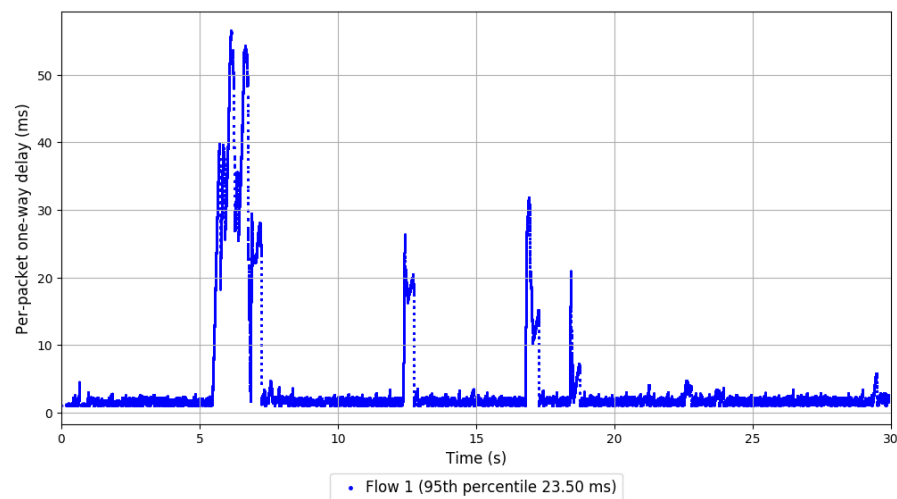
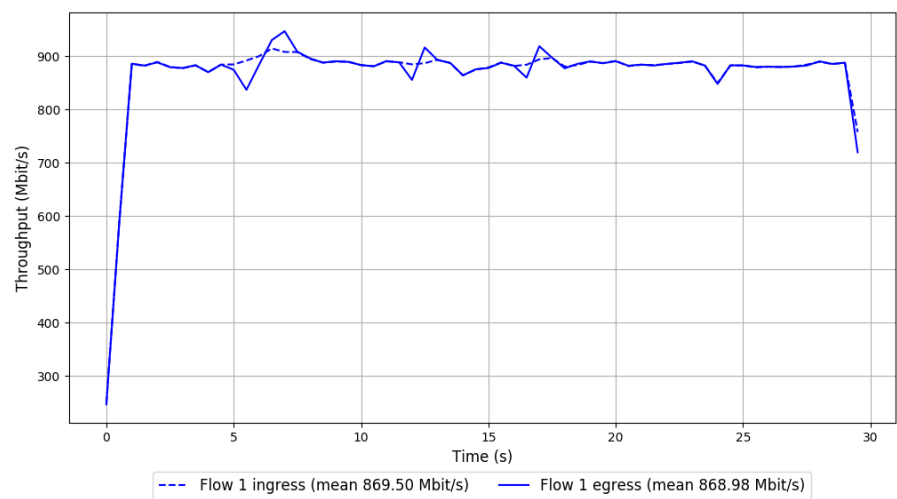
Run 1: Statistics of FillP

Start at: 2018-04-24 05:28:09  
End at: 2018-04-24 05:28:39  
Local clock offset: -1.047 ms  
Remote clock offset: -5.191 ms

# Below is generated by plot.py at 2018-04-24 15:06:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 868.98 Mbit/s  
95th percentile per-packet one-way delay: 23.497 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 868.98 Mbit/s  
95th percentile per-packet one-way delay: 23.497 ms  
Loss rate: 0.13%



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-24 05:53:32

End at: 2018-04-24 05:54:02

Local clock offset: -1.935 ms

Remote clock offset: -5.01 ms

# Below is generated by plot.py at 2018-04-24 15:07:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 869.48 Mbit/s

95th percentile per-packet one-way delay: 2.053 ms

Loss rate: 0.08%

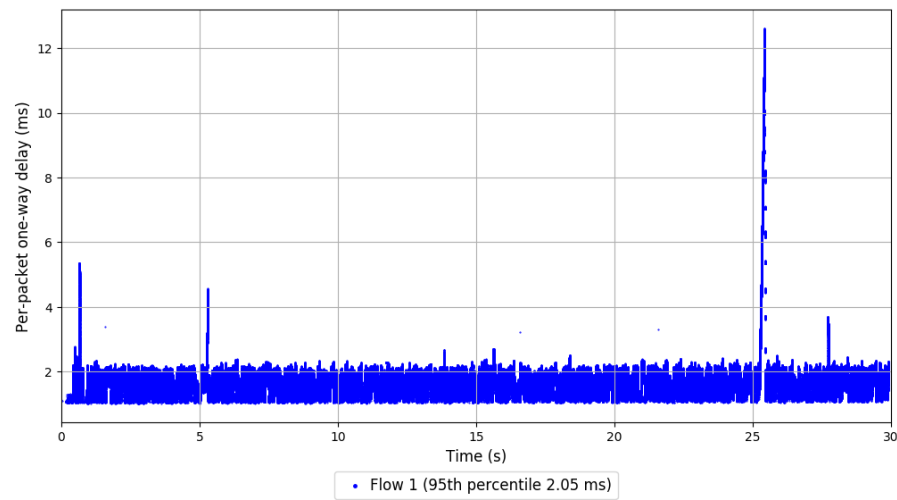
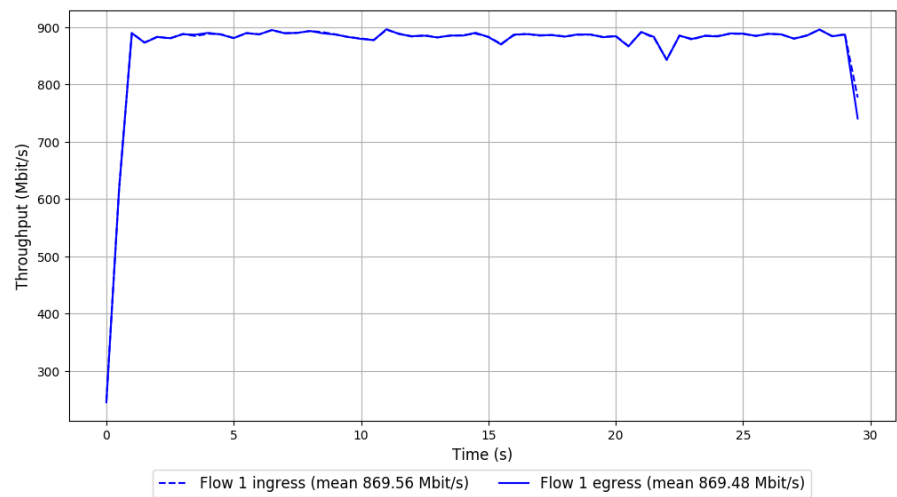
-- Flow 1:

Average throughput: 869.48 Mbit/s

95th percentile per-packet one-way delay: 2.053 ms

Loss rate: 0.08%

Run 2: Report of FillP — Data Link

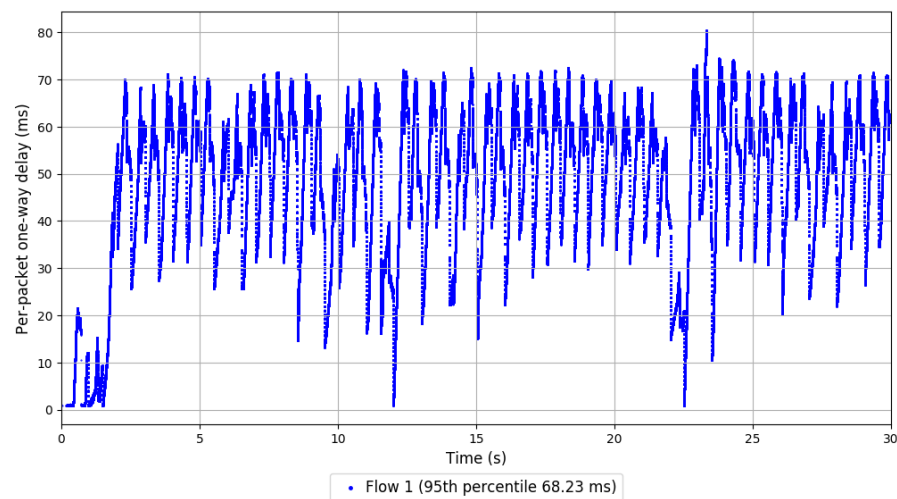
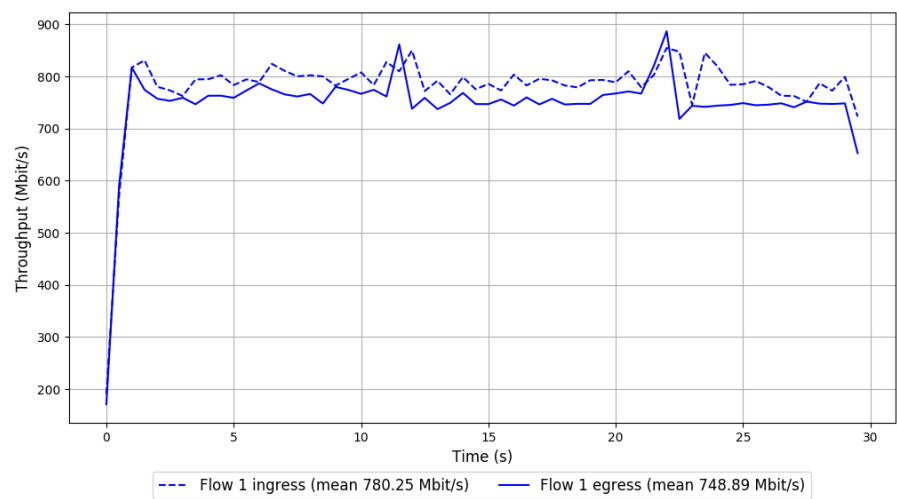


Run 3: Statistics of FillP

Start at: 2018-04-24 06:18:52  
End at: 2018-04-24 06:19:22  
Local clock offset: -1.91 ms  
Remote clock offset: -6.664 ms

# Below is generated by plot.py at 2018-04-24 15:07:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 748.89 Mbit/s  
95th percentile per-packet one-way delay: 68.230 ms  
Loss rate: 4.08%  
-- Flow 1:  
Average throughput: 748.89 Mbit/s  
95th percentile per-packet one-way delay: 68.230 ms  
Loss rate: 4.08%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-24 06:44:09

End at: 2018-04-24 06:44:39

Local clock offset: -1.756 ms

Remote clock offset: -7.27 ms

# Below is generated by plot.py at 2018-04-24 15:07:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 870.67 Mbit/s

95th percentile per-packet one-way delay: 2.904 ms

Loss rate: 0.08%

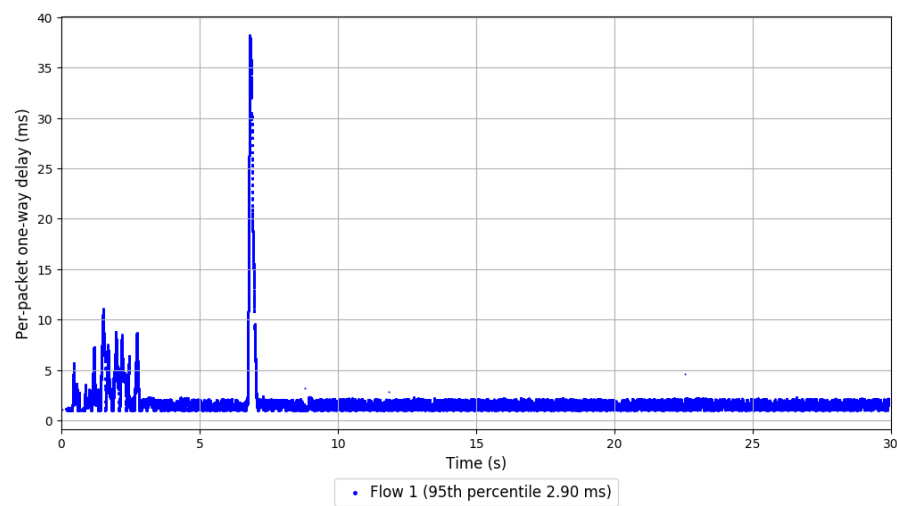
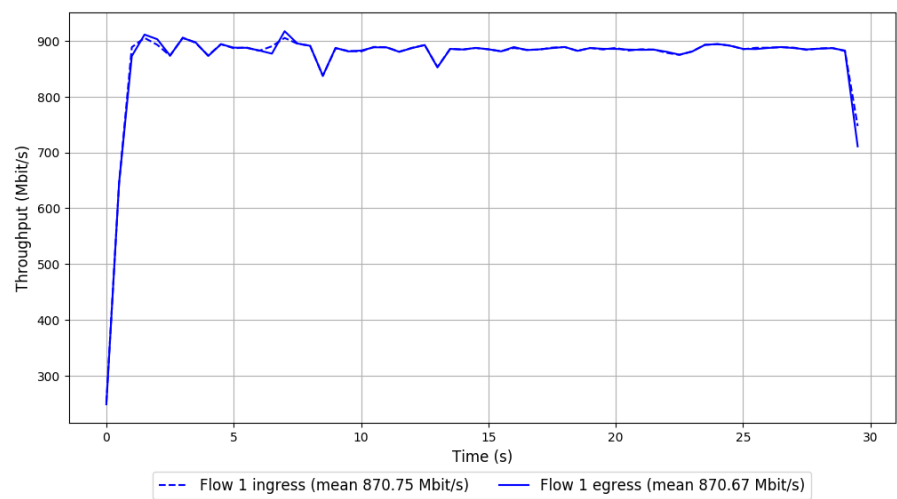
-- Flow 1:

Average throughput: 870.67 Mbit/s

95th percentile per-packet one-way delay: 2.904 ms

Loss rate: 0.08%

Run 4: Report of FillP — Data Link



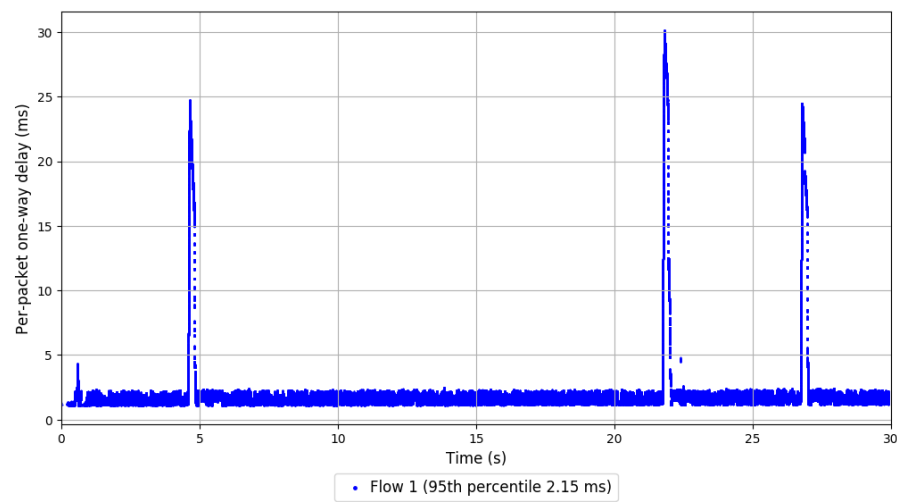
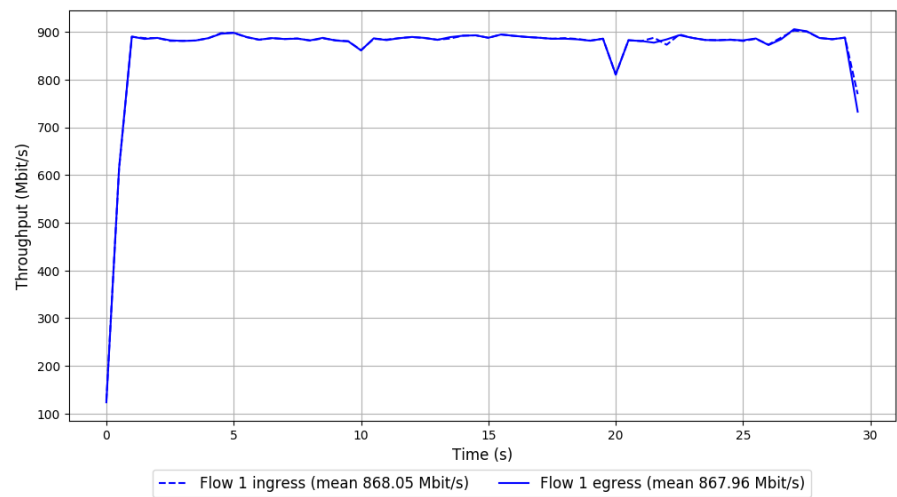
Run 5: Statistics of FillP

Start at: 2018-04-24 07:09:41  
End at: 2018-04-24 07:10:11  
Local clock offset: 0.874 ms  
Remote clock offset: -6.769 ms

# Below is generated by plot.py at 2018-04-24 15:07:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 867.96 Mbit/s  
95th percentile per-packet one-way delay: 2.148 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 867.96 Mbit/s  
95th percentile per-packet one-way delay: 2.148 ms  
Loss rate: 0.08%



Run 5: Report of FillP — Data Link

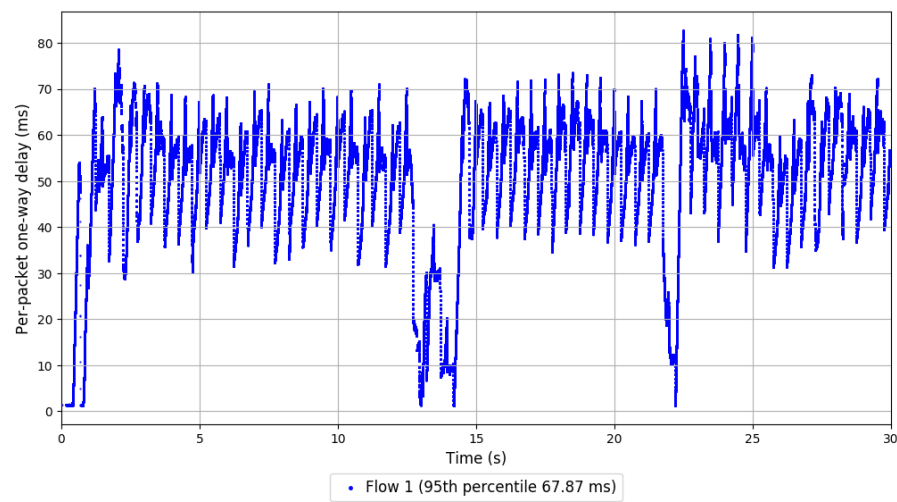
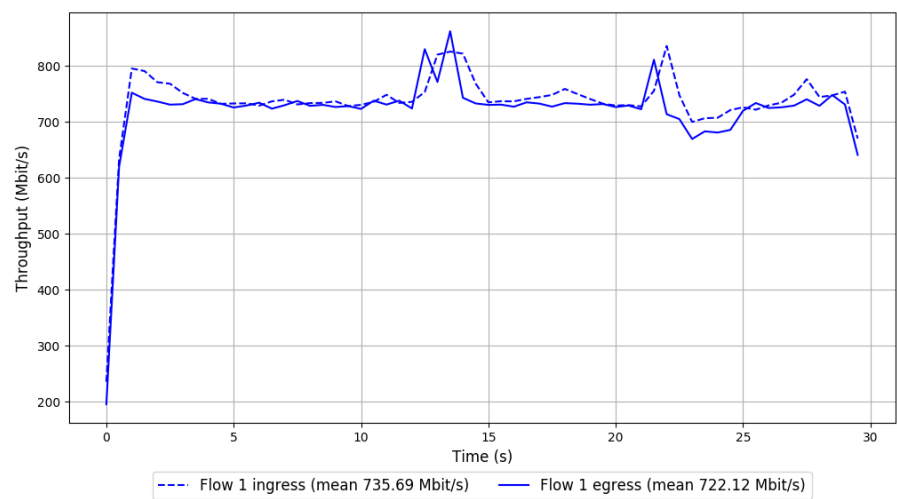


Run 6: Statistics of FillP

Start at: 2018-04-24 07:34:58  
End at: 2018-04-24 07:35:28  
Local clock offset: -0.536 ms  
Remote clock offset: -4.795 ms

# Below is generated by plot.py at 2018-04-24 15:07:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 722.12 Mbit/s  
95th percentile per-packet one-way delay: 67.873 ms  
Loss rate: 1.91%  
-- Flow 1:  
Average throughput: 722.12 Mbit/s  
95th percentile per-packet one-way delay: 67.873 ms  
Loss rate: 1.91%

Run 6: Report of FillP — Data Link

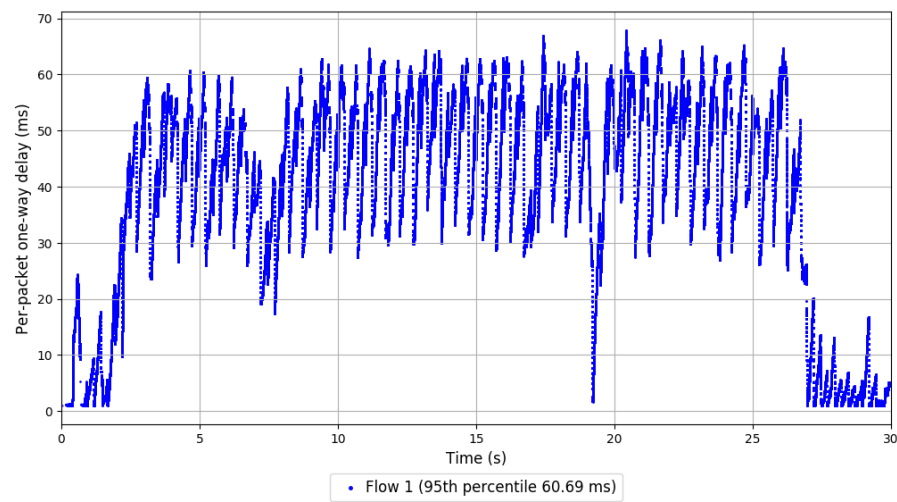
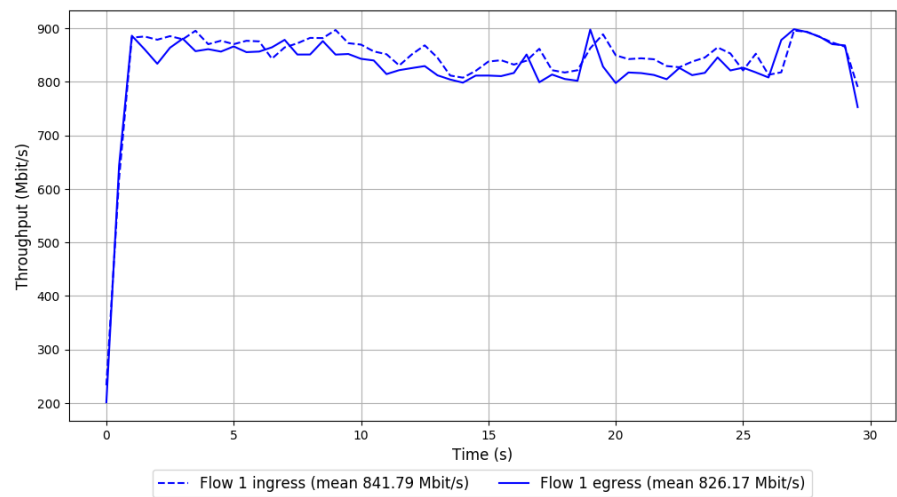


Run 7: Statistics of FillP

Start at: 2018-04-24 08:00:14  
End at: 2018-04-24 08:00:44  
Local clock offset: -1.241 ms  
Remote clock offset: -6.122 ms

# Below is generated by plot.py at 2018-04-24 15:07:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 826.17 Mbit/s  
95th percentile per-packet one-way delay: 60.692 ms  
Loss rate: 1.92%  
-- Flow 1:  
Average throughput: 826.17 Mbit/s  
95th percentile per-packet one-way delay: 60.692 ms  
Loss rate: 1.92%

Run 7: Report of FillP — Data Link

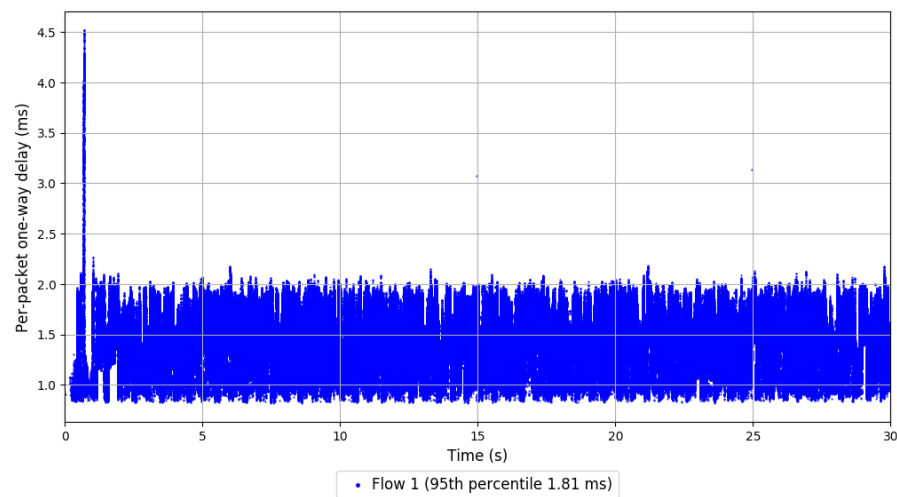
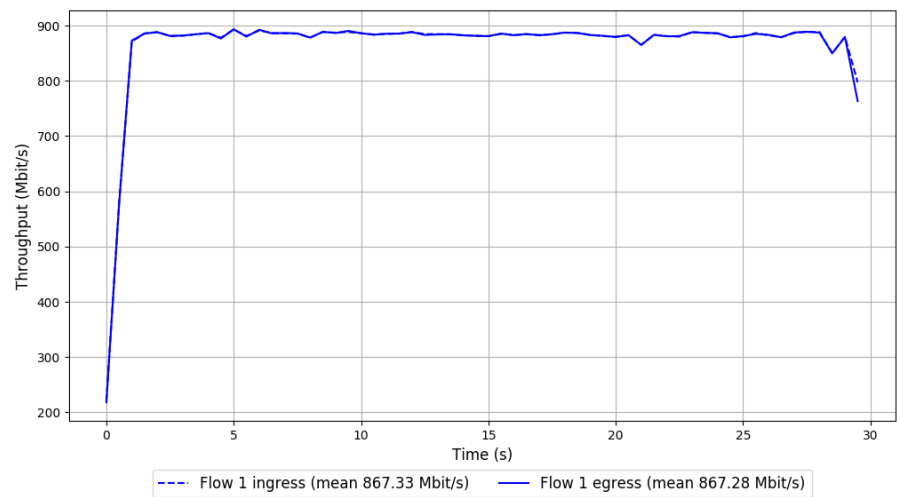


Run 8: Statistics of FillP

Start at: 2018-04-24 08:25:39  
End at: 2018-04-24 08:26:09  
Local clock offset: -1.461 ms  
Remote clock offset: -6.245 ms

# Below is generated by plot.py at 2018-04-24 15:08:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 867.28 Mbit/s  
95th percentile per-packet one-way delay: 1.806 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 867.28 Mbit/s  
95th percentile per-packet one-way delay: 1.806 ms  
Loss rate: 0.07%

Run 8: Report of FillP — Data Link



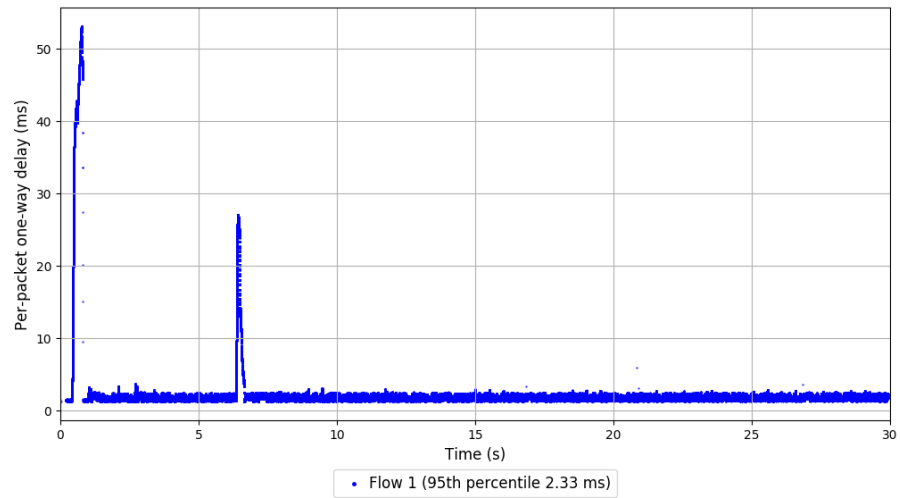
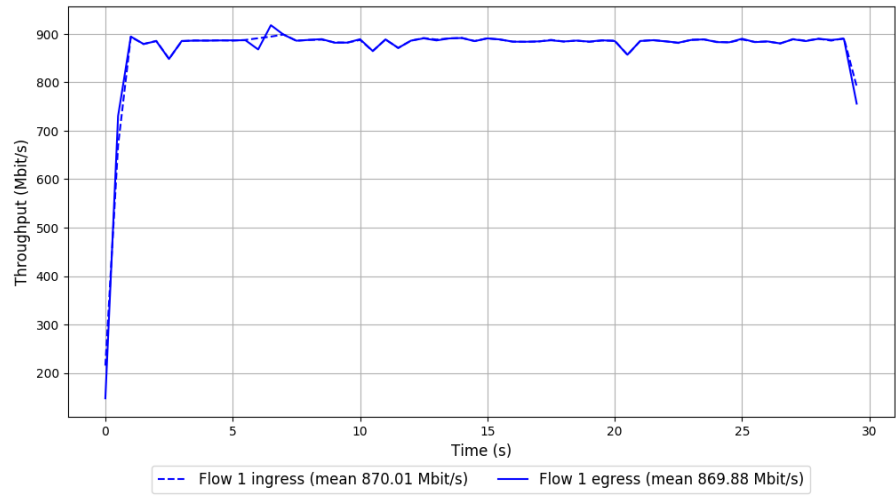
Run 9: Statistics of FillP

Start at: 2018-04-24 08:50:49  
End at: 2018-04-24 08:51:19  
Local clock offset: -0.522 ms  
Remote clock offset: -6.129 ms

# Below is generated by plot.py at 2018-04-24 15:19:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 869.88 Mbit/s  
95th percentile per-packet one-way delay: 2.325 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 869.88 Mbit/s  
95th percentile per-packet one-way delay: 2.325 ms  
Loss rate: 0.08%



### Run 9: Report of FillP — Data Link

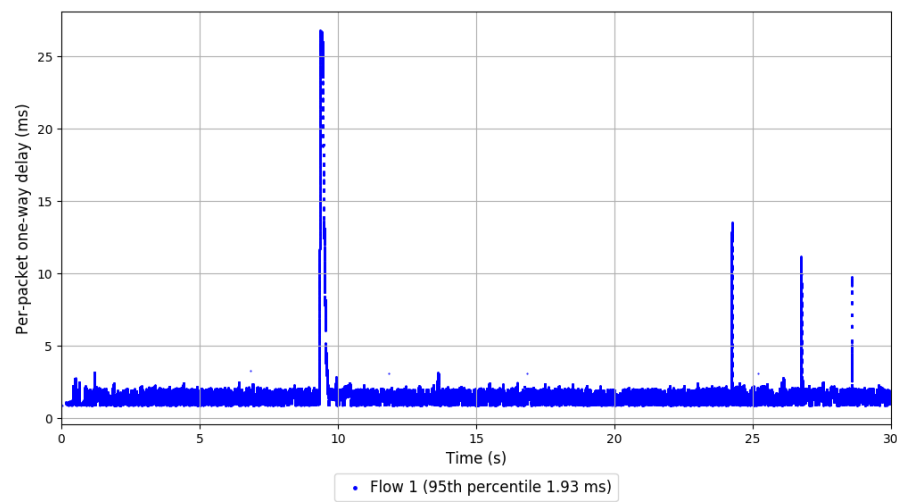
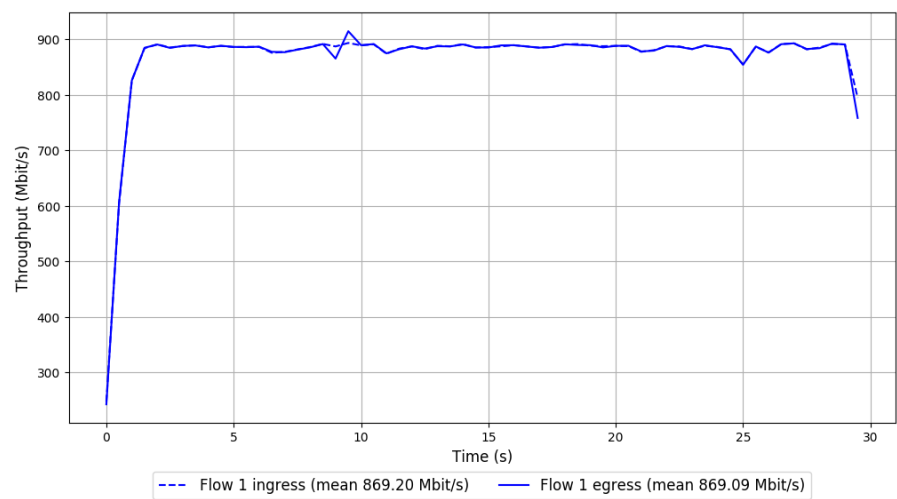


Run 10: Statistics of FillP

Start at: 2018-04-24 09:16:08  
End at: 2018-04-24 09:16:38  
Local clock offset: -0.379 ms  
Remote clock offset: -5.072 ms

# Below is generated by plot.py at 2018-04-24 15:20:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 869.09 Mbit/s  
95th percentile per-packet one-way delay: 1.931 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 869.09 Mbit/s  
95th percentile per-packet one-way delay: 1.931 ms  
Loss rate: 0.08%

Run 10: Report of FillP — Data Link

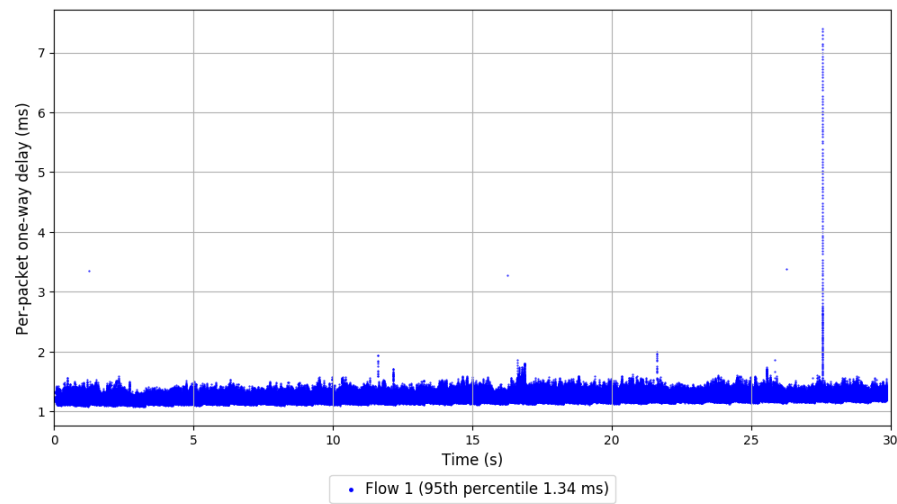
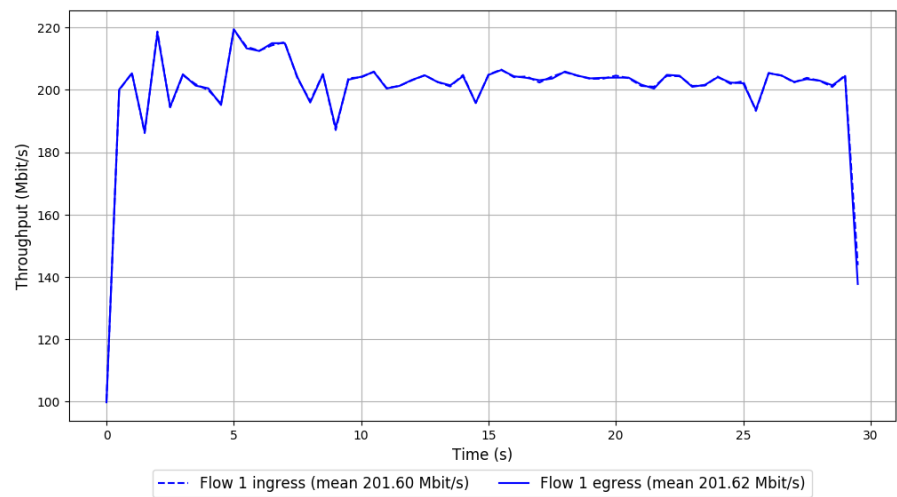


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 05:14:38
End at: 2018-04-24 05:15:08
Local clock offset: -0.286 ms
Remote clock offset: -5.248 ms

# Below is generated by plot.py at 2018-04-24 15:20:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.62 Mbit/s
95th percentile per-packet one-way delay: 1.341 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 201.62 Mbit/s
95th percentile per-packet one-way delay: 1.341 ms
Loss rate: 0.06%
```

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

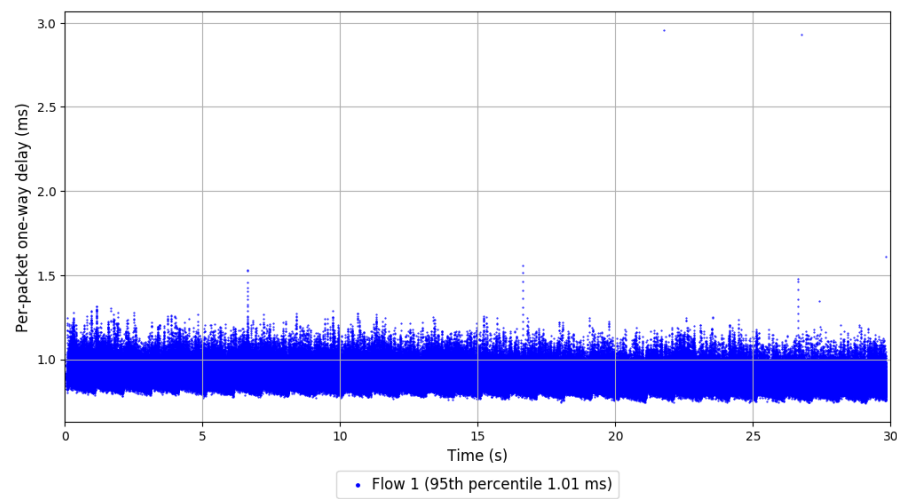
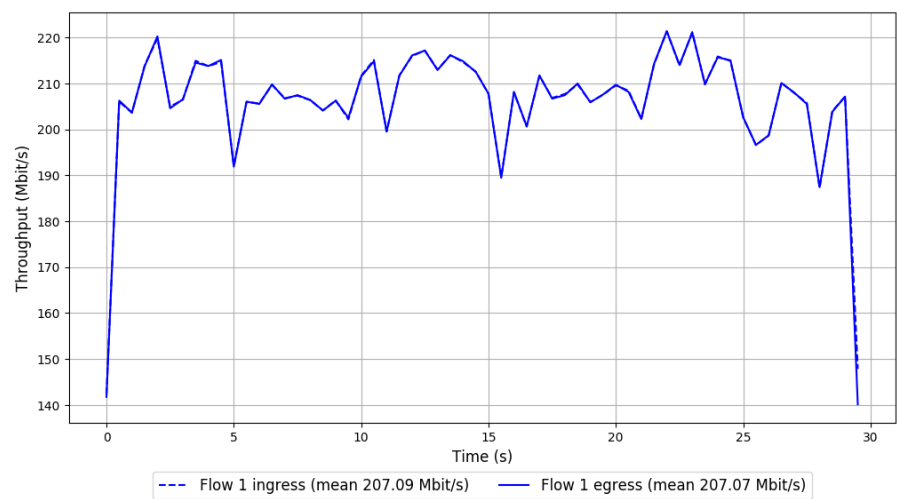


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 05:40:11  
End at: 2018-04-24 05:40:41  
Local clock offset: -2.009 ms  
Remote clock offset: -5.071 ms

# Below is generated by plot.py at 2018-04-24 15:20:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 207.07 Mbit/s  
95th percentile per-packet one-way delay: 1.014 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 207.07 Mbit/s  
95th percentile per-packet one-way delay: 1.014 ms  
Loss rate: 0.07%

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



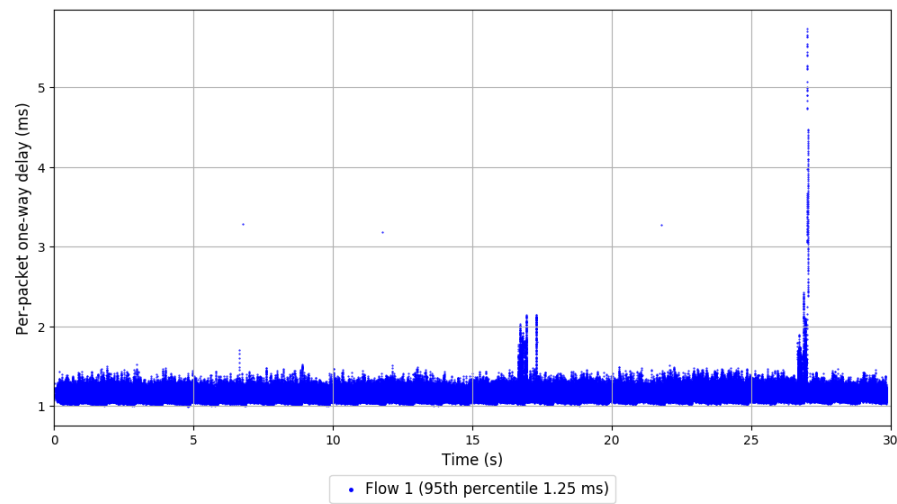
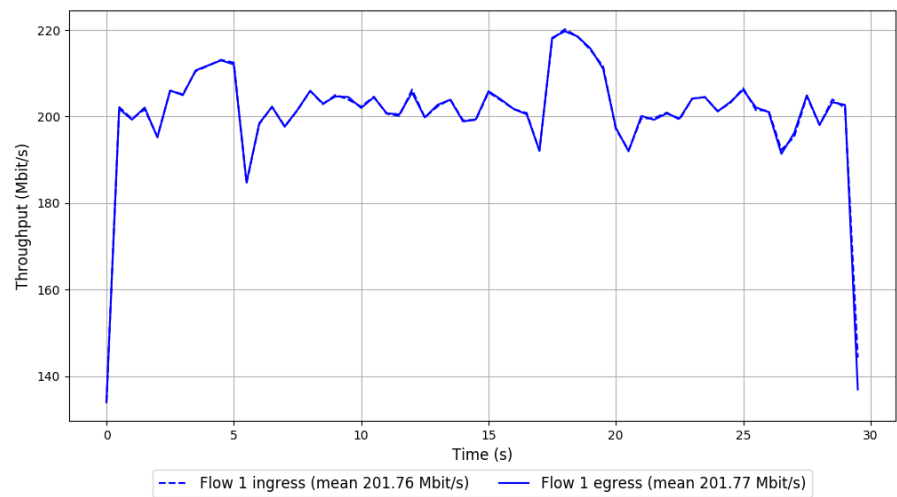
Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 06:05:25  
End at: 2018-04-24 06:05:55  
Local clock offset: -3.112 ms  
Remote clock offset: -5.994 ms

# Below is generated by plot.py at 2018-04-24 15:20:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 201.77 Mbit/s  
95th percentile per-packet one-way delay: 1.248 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 201.77 Mbit/s  
95th percentile per-packet one-way delay: 1.248 ms  
Loss rate: 0.06%



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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 06:30:43

End at: 2018-04-24 06:31:13

Local clock offset: -1.162 ms

Remote clock offset: -6.92 ms

# Below is generated by plot.py at 2018-04-24 15:20:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.83 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.03%

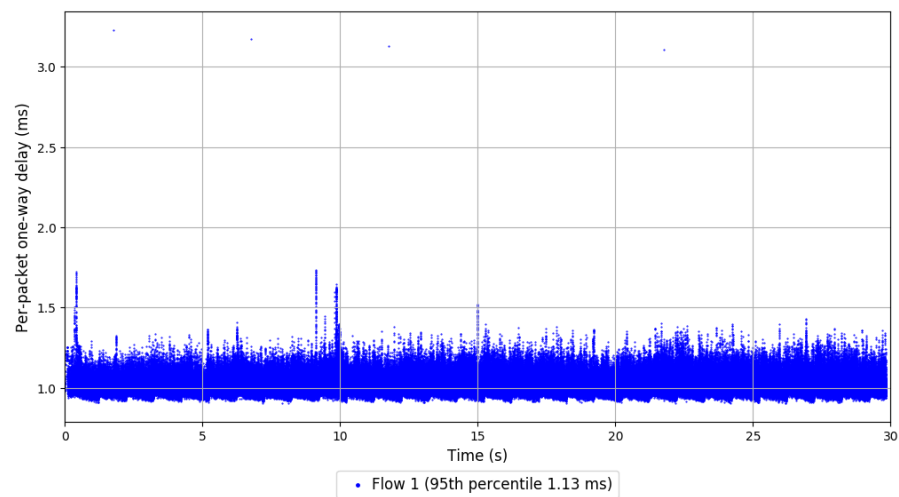
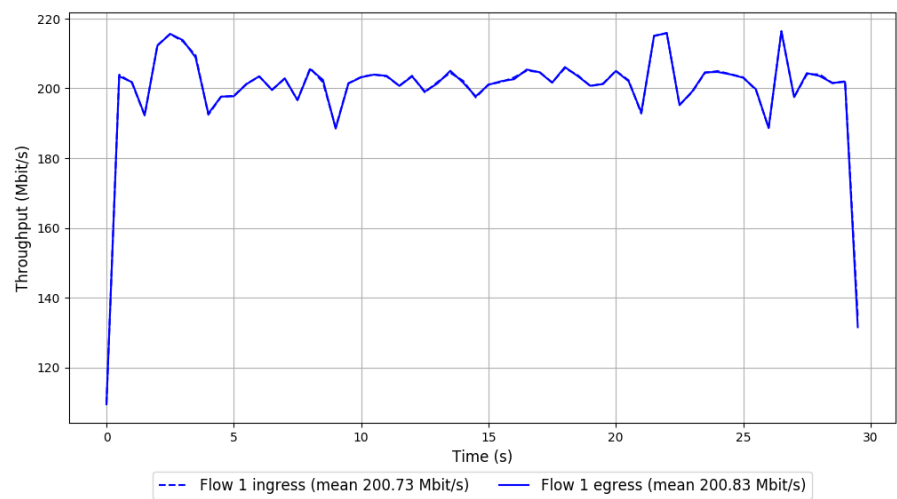
-- Flow 1:

Average throughput: 200.83 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.03%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 06:56:09

End at: 2018-04-24 06:56:39

Local clock offset: 0.323 ms

Remote clock offset: -7.467 ms

# Below is generated by plot.py at 2018-04-24 15:20:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 199.95 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.07%

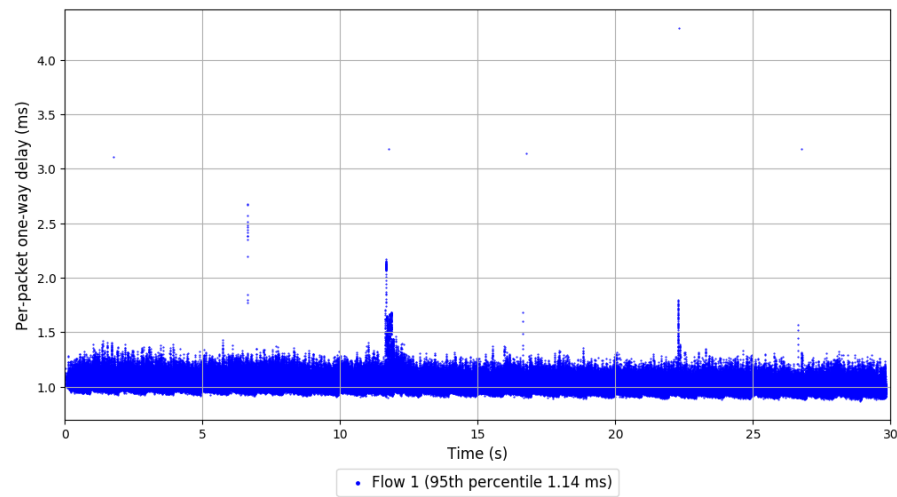
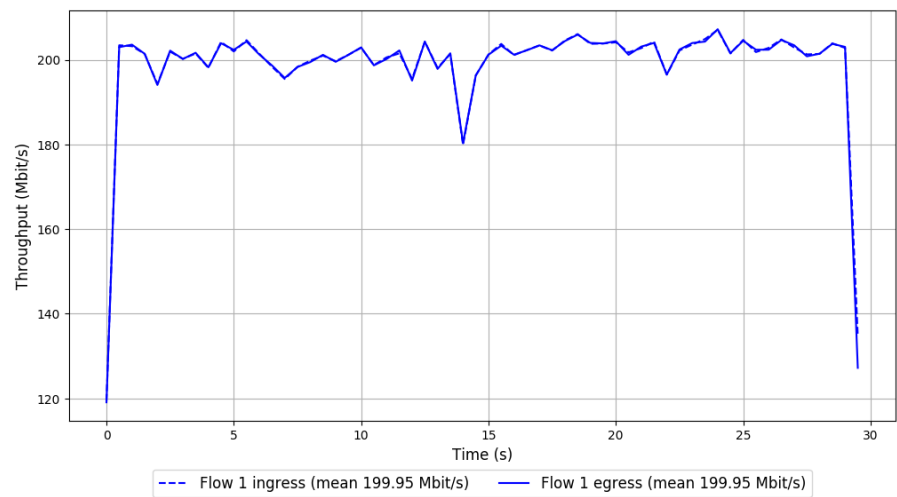
-- Flow 1:

Average throughput: 199.95 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.07%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 07:21:33

End at: 2018-04-24 07:22:03

Local clock offset: 0.553 ms

Remote clock offset: -5.405 ms

# Below is generated by plot.py at 2018-04-24 15:20:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 198.69 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.07%

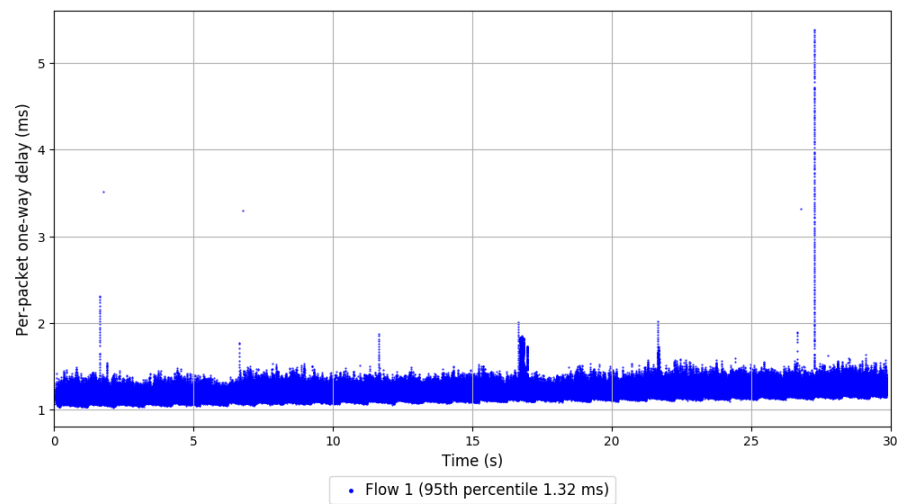
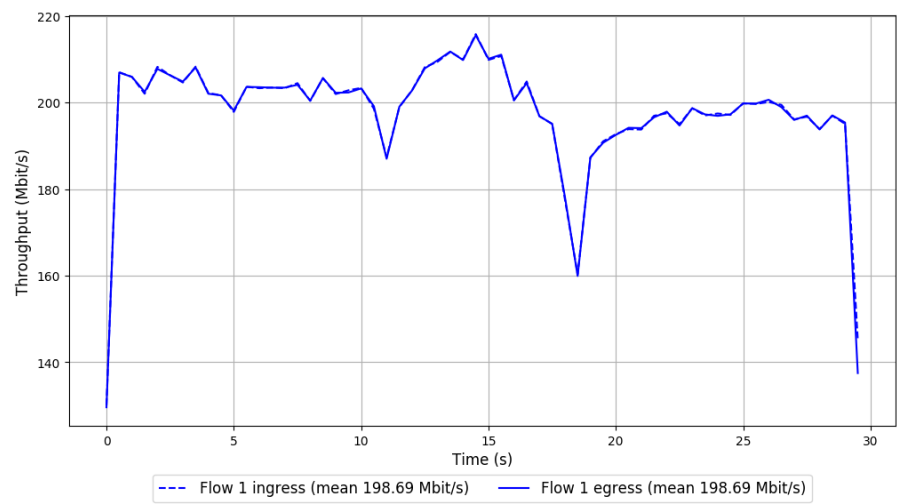
-- Flow 1:

Average throughput: 198.69 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.07%

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



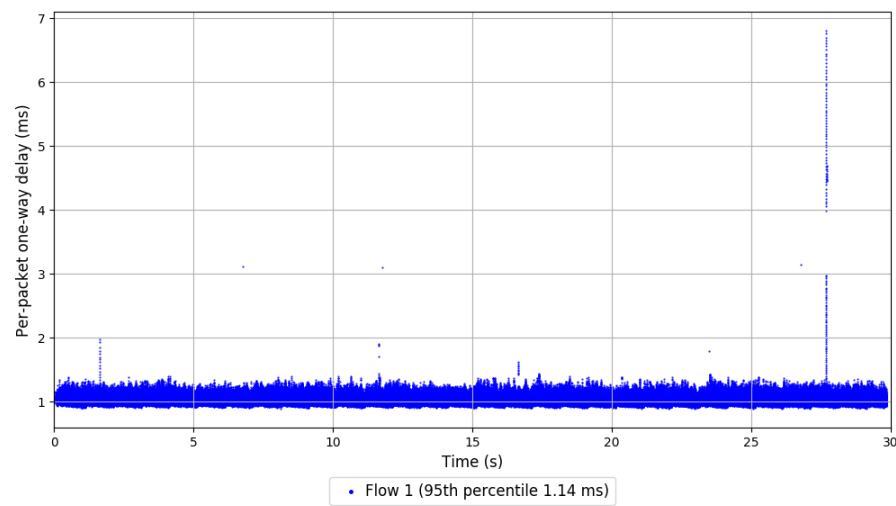
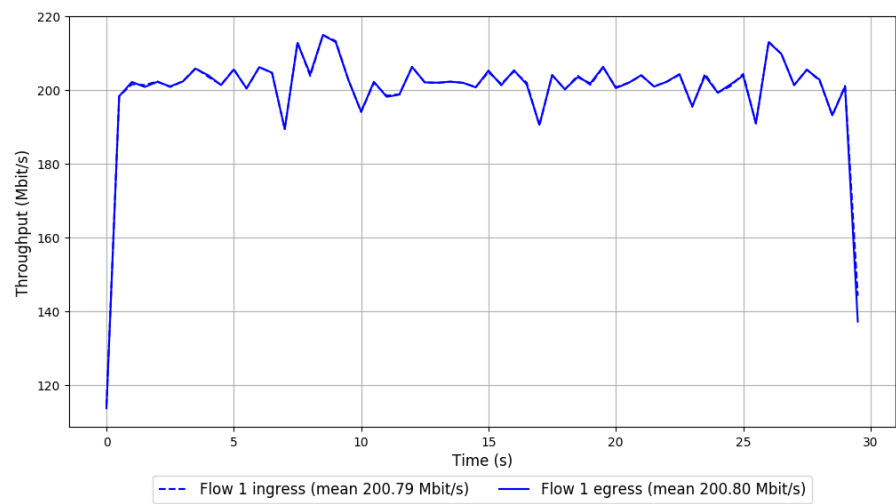
Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 07:46:53  
End at: 2018-04-24 07:47:23  
Local clock offset: -1.548 ms  
Remote clock offset: -5.588 ms

# Below is generated by plot.py at 2018-04-24 15:20:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 200.80 Mbit/s  
95th percentile per-packet one-way delay: 1.141 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 200.80 Mbit/s  
95th percentile per-packet one-way delay: 1.141 ms  
Loss rate: 0.06%



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

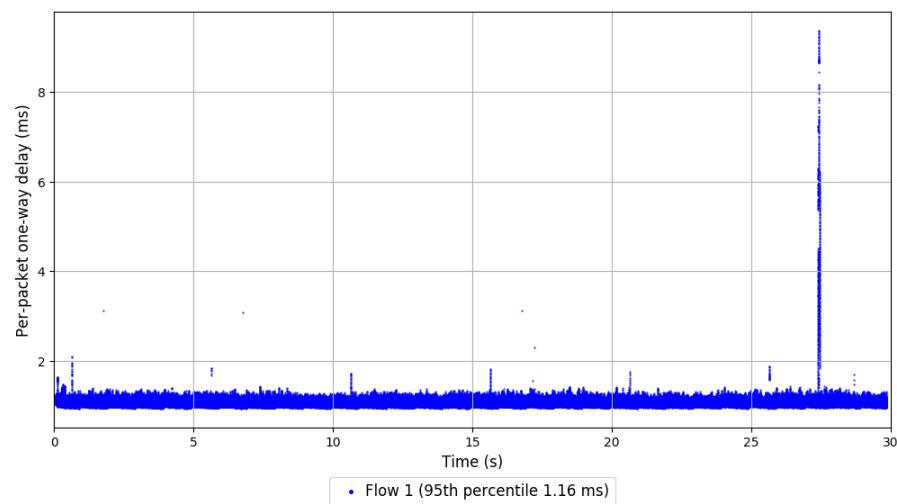
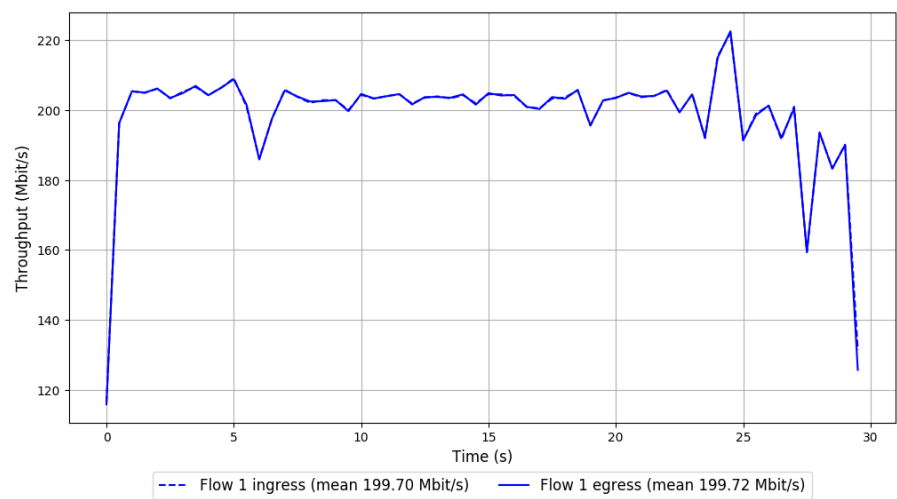


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 08:12:12  
End at: 2018-04-24 08:12:42  
Local clock offset: -1.191 ms  
Remote clock offset: -6.309 ms

# Below is generated by plot.py at 2018-04-24 15:20:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 199.72 Mbit/s  
95th percentile per-packet one-way delay: 1.160 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 199.72 Mbit/s  
95th percentile per-packet one-way delay: 1.160 ms  
Loss rate: 0.05%

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

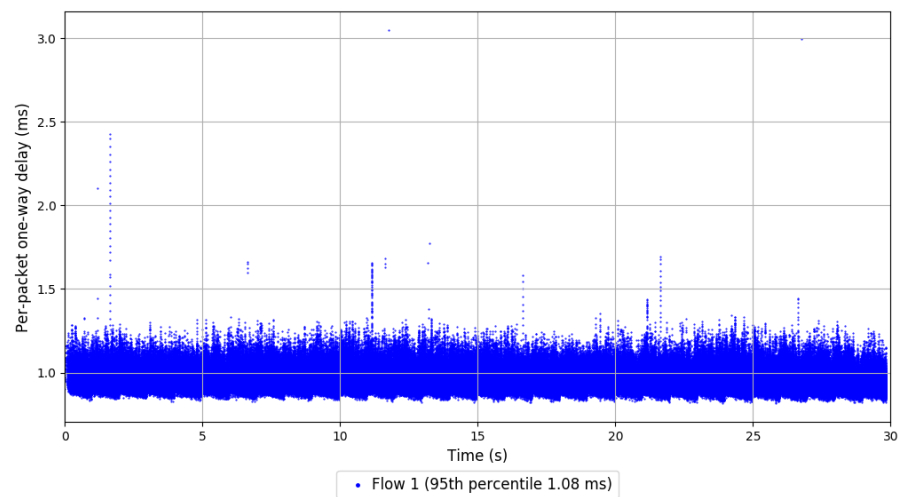
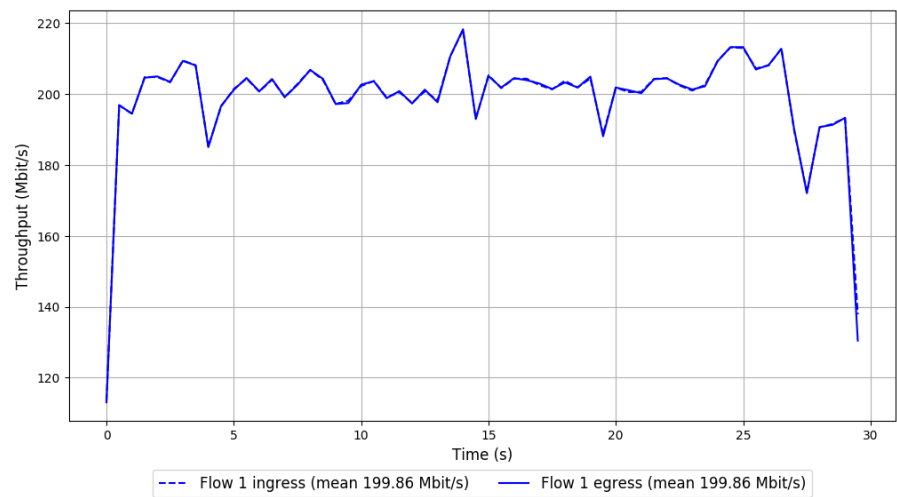


Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 08:37:29  
End at: 2018-04-24 08:37:59  
Local clock offset: -0.956 ms  
Remote clock offset: -6.336 ms

# Below is generated by plot.py at 2018-04-24 15:20:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 199.86 Mbit/s  
95th percentile per-packet one-way delay: 1.085 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 199.86 Mbit/s  
95th percentile per-packet one-way delay: 1.085 ms  
Loss rate: 0.07%

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

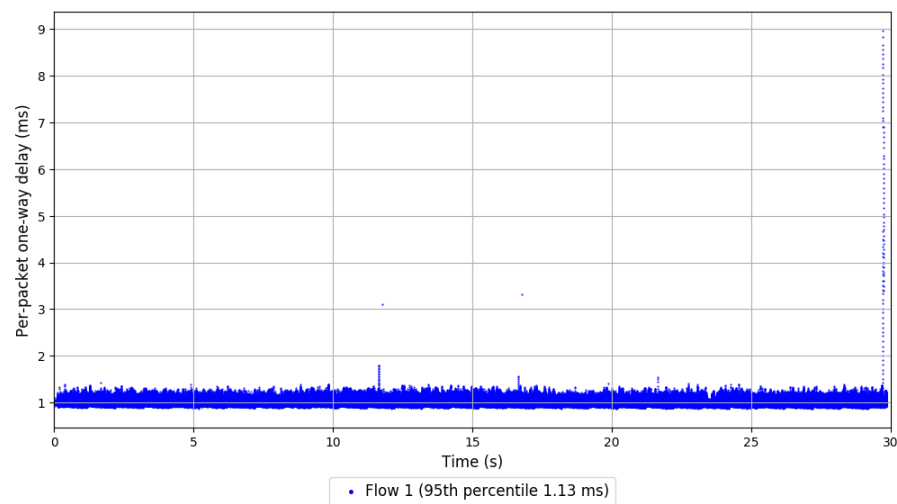
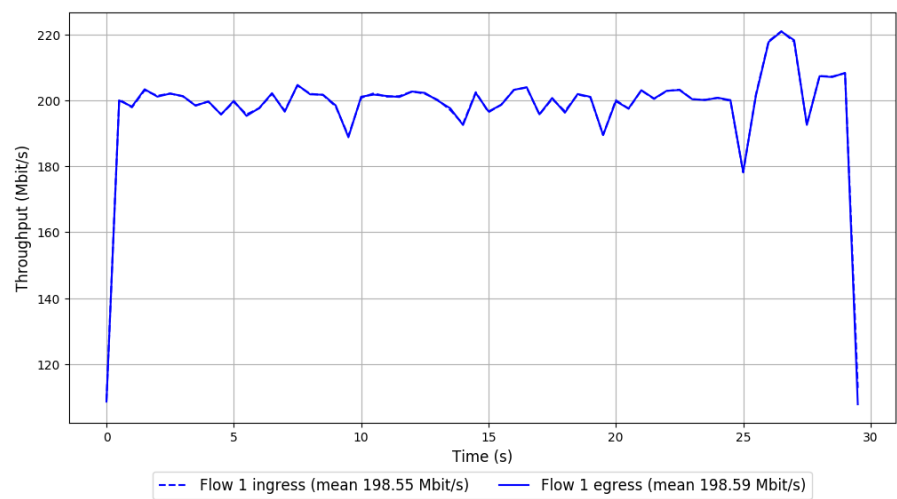


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 09:02:39  
End at: 2018-04-24 09:03:10  
Local clock offset: -0.873 ms  
Remote clock offset: -5.463 ms

# Below is generated by plot.py at 2018-04-24 15:20:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 198.59 Mbit/s  
95th percentile per-packet one-way delay: 1.127 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 198.59 Mbit/s  
95th percentile per-packet one-way delay: 1.127 ms  
Loss rate: 0.05%

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



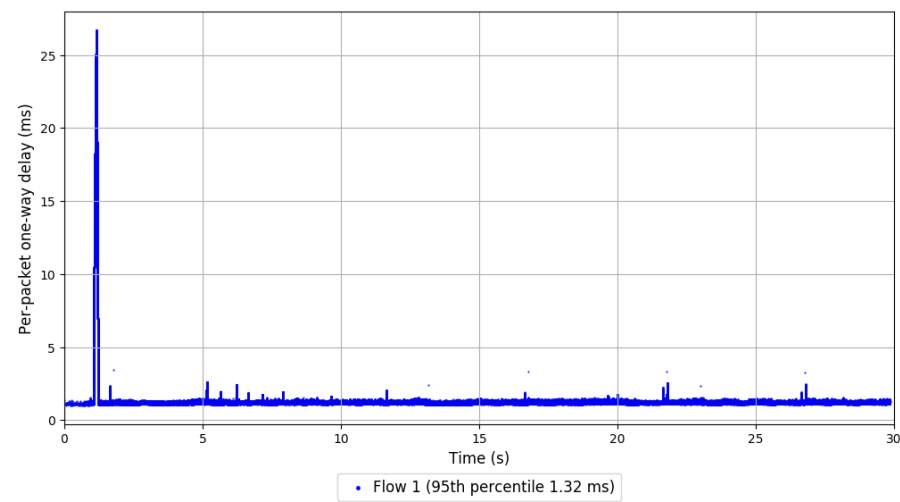
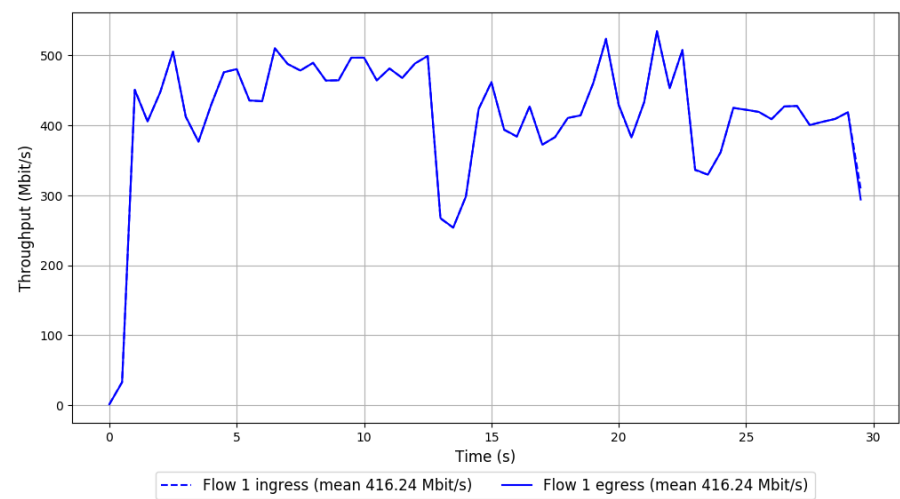
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 05:26:30  
End at: 2018-04-24 05:27:00  
Local clock offset: -0.928 ms  
Remote clock offset: -5.168 ms

# Below is generated by plot.py at 2018-04-24 15:20:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 416.24 Mbit/s  
95th percentile per-packet one-way delay: 1.317 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 416.24 Mbit/s  
95th percentile per-packet one-way delay: 1.317 ms  
Loss rate: 0.07%



Run 1: Report of PCC-Vivace — Data Link

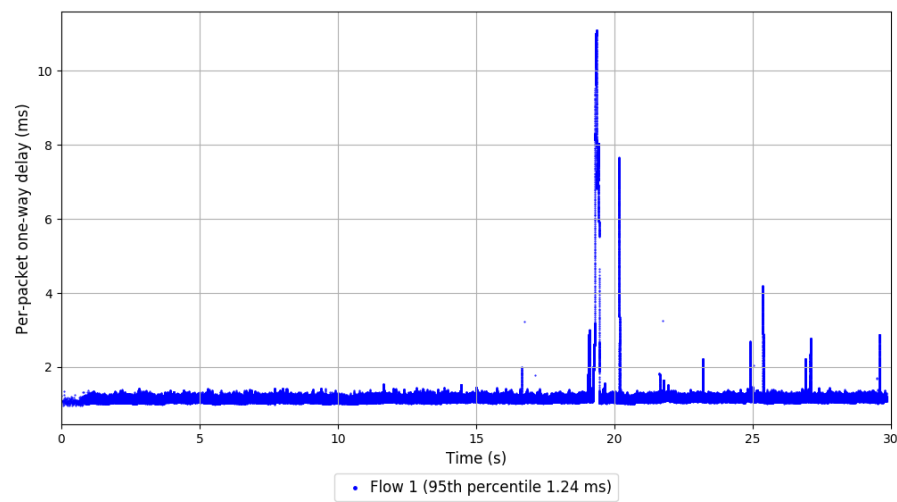
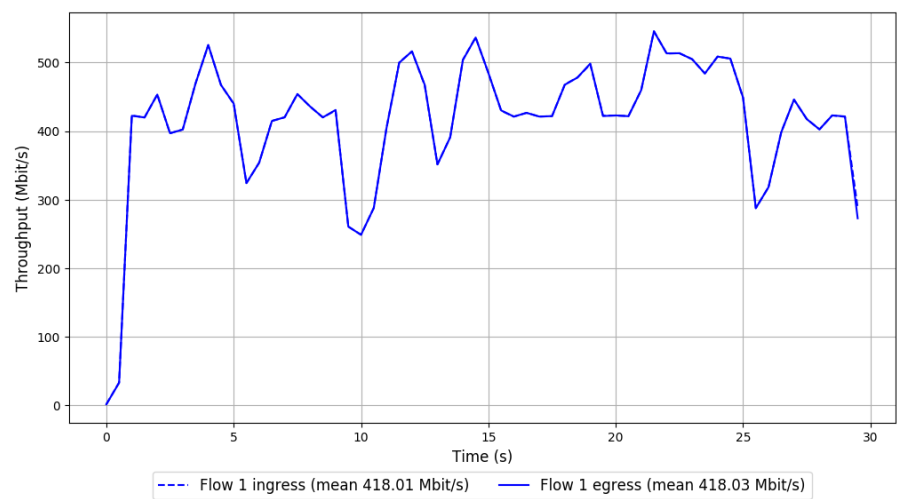


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 05:51:53  
End at: 2018-04-24 05:52:23  
Local clock offset: -1.793 ms  
Remote clock offset: -4.981 ms

# Below is generated by plot.py at 2018-04-24 15:20:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 418.03 Mbit/s  
95th percentile per-packet one-way delay: 1.238 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 418.03 Mbit/s  
95th percentile per-packet one-way delay: 1.238 ms  
Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link

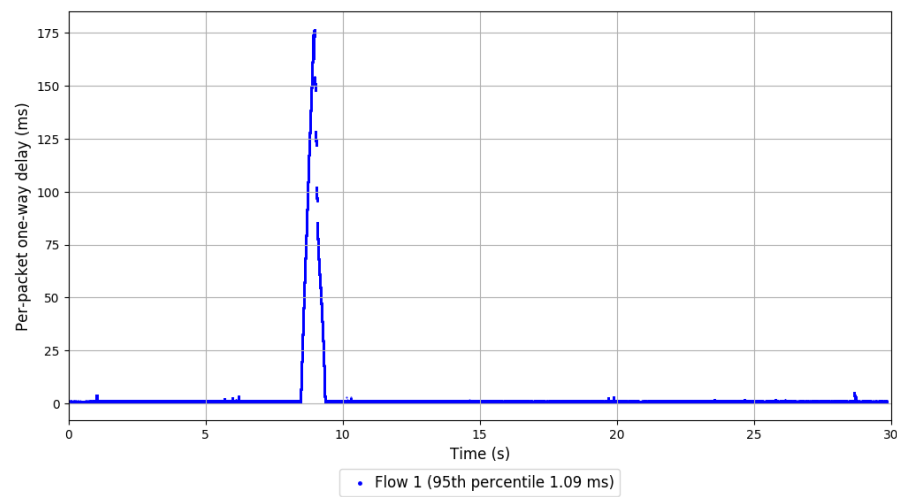
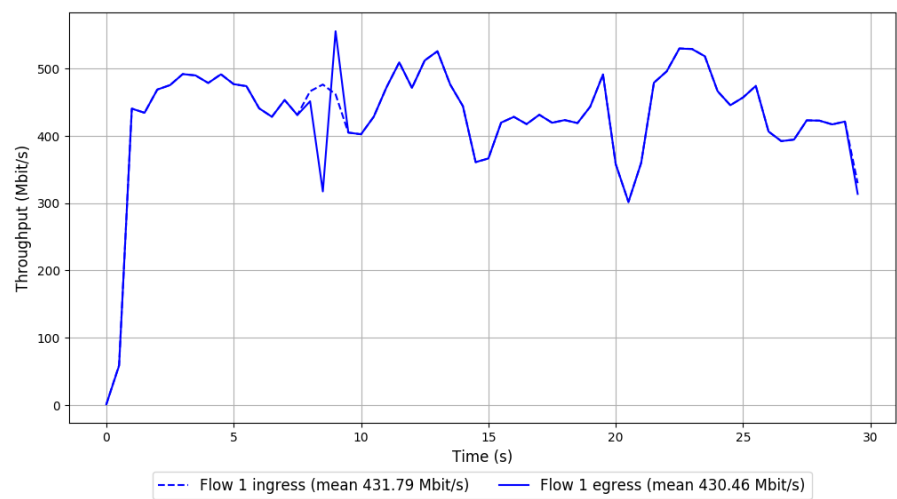


Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 06:17:12  
End at: 2018-04-24 06:17:42  
Local clock offset: -2.262 ms  
Remote clock offset: -6.664 ms

# Below is generated by plot.py at 2018-04-24 15:20:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 430.46 Mbit/s  
95th percentile per-packet one-way delay: 1.088 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 430.46 Mbit/s  
95th percentile per-packet one-way delay: 1.088 ms  
Loss rate: 0.37%

Run 3: Report of PCC-Vivace — Data Link

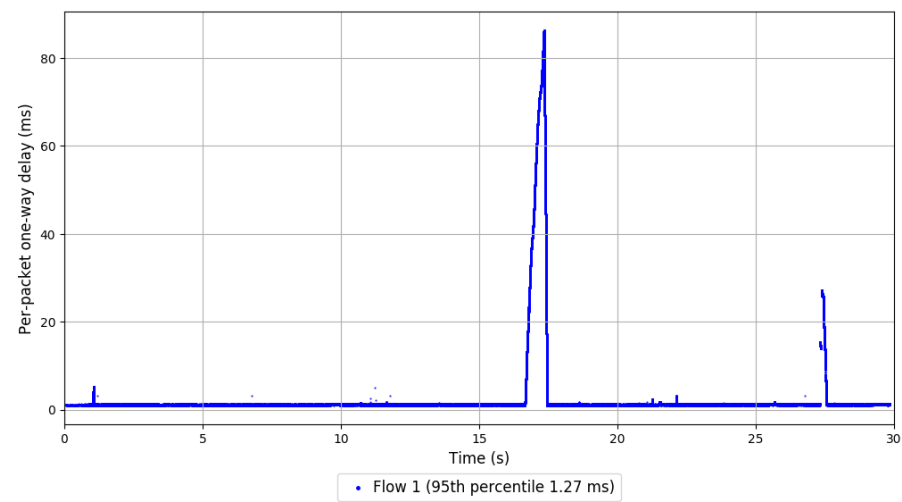
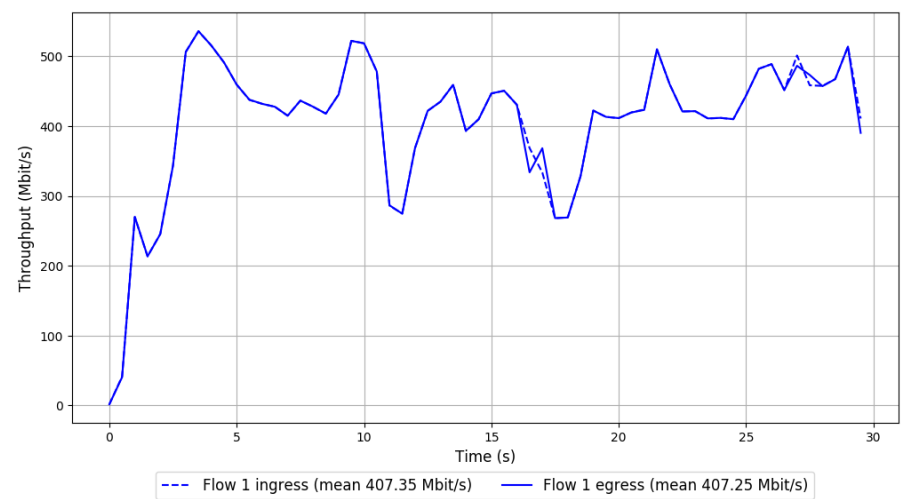


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 06:42:30  
End at: 2018-04-24 06:43:01  
Local clock offset: -1.572 ms  
Remote clock offset: -7.144 ms

# Below is generated by plot.py at 2018-04-24 15:20:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 407.25 Mbit/s  
95th percentile per-packet one-way delay: 1.267 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 407.25 Mbit/s  
95th percentile per-packet one-way delay: 1.267 ms  
Loss rate: 0.09%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 07:08:01

End at: 2018-04-24 07:08:31

Local clock offset: 0.768 ms

Remote clock offset: -7.048 ms

# Below is generated by plot.py at 2018-04-24 15:20:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 438.70 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.07%

-- Flow 1:

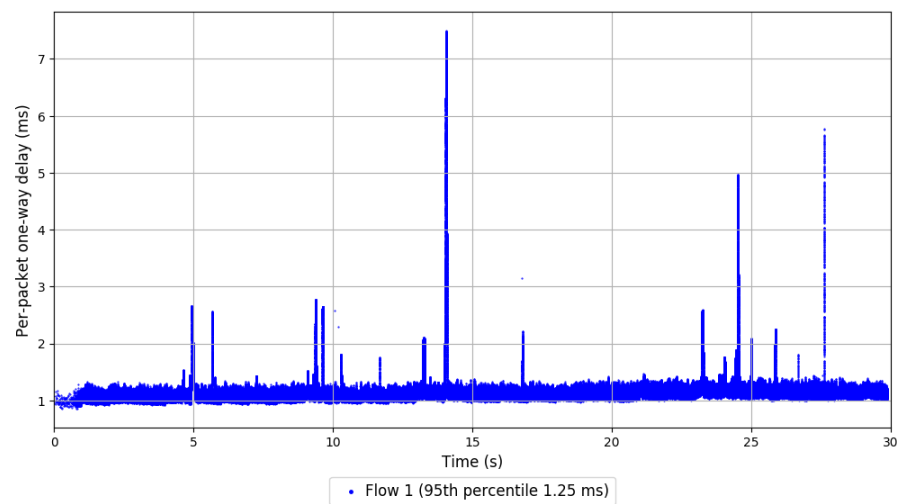
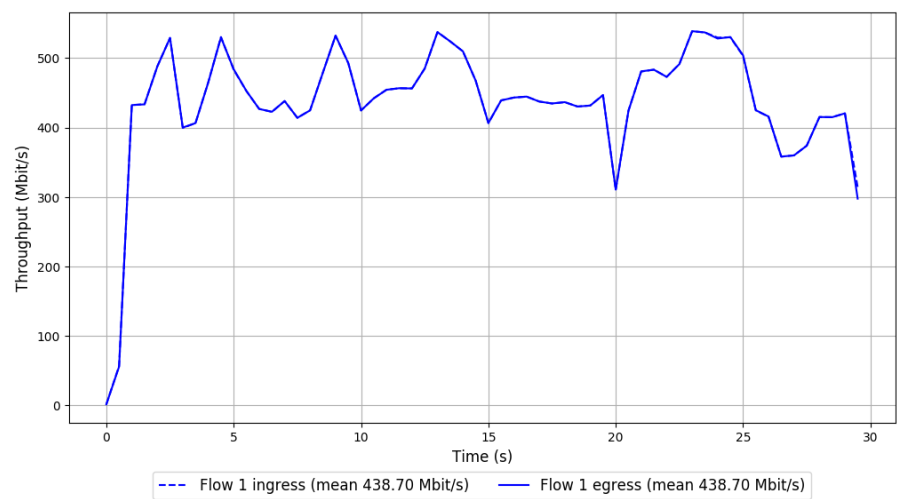
Average throughput: 438.70 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.07%



Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 07:33:19

End at: 2018-04-24 07:33:49

Local clock offset: -0.71 ms

Remote clock offset: -4.907 ms

# Below is generated by plot.py at 2018-04-24 15:20:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 410.92 Mbit/s

95th percentile per-packet one-way delay: 2.252 ms

Loss rate: 1.91%

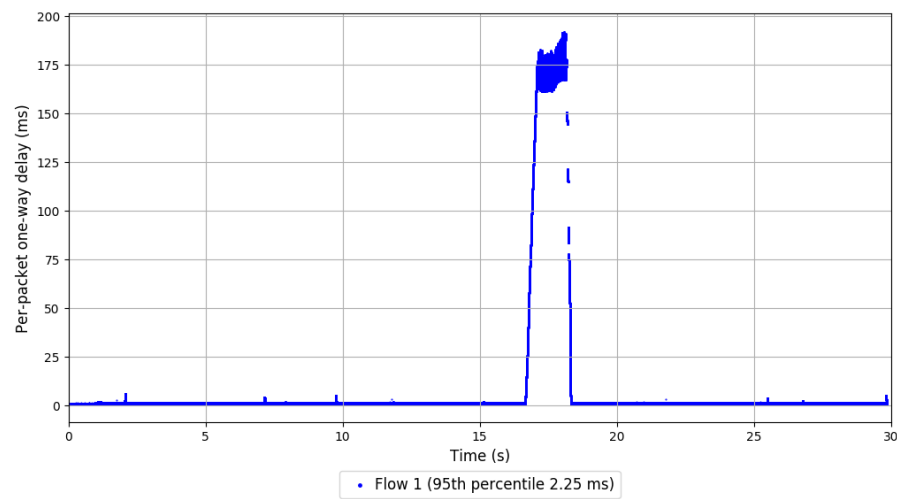
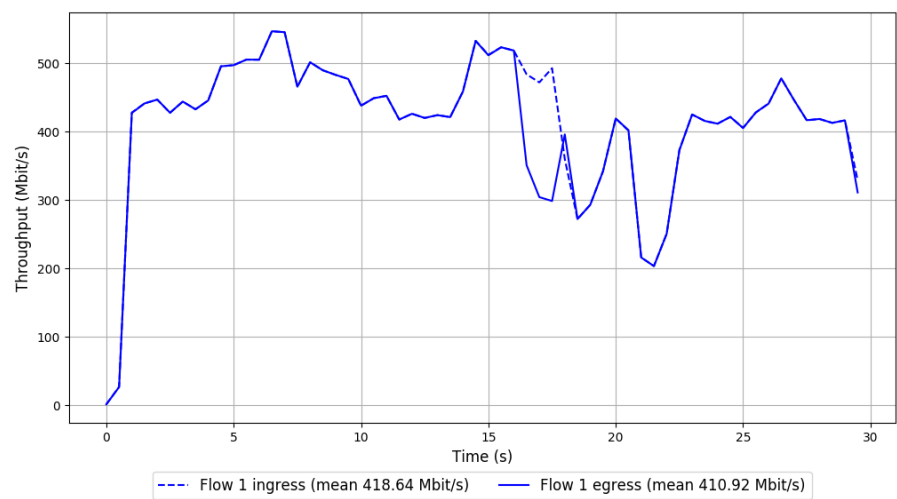
-- Flow 1:

Average throughput: 410.92 Mbit/s

95th percentile per-packet one-way delay: 2.252 ms

Loss rate: 1.91%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 07:58:40

End at: 2018-04-24 07:59:10

Local clock offset: -1.225 ms

Remote clock offset: -6.15 ms

# Below is generated by plot.py at 2018-04-24 15:21:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 306.92 Mbit/s

95th percentile per-packet one-way delay: 1.524 ms

Loss rate: 0.08%

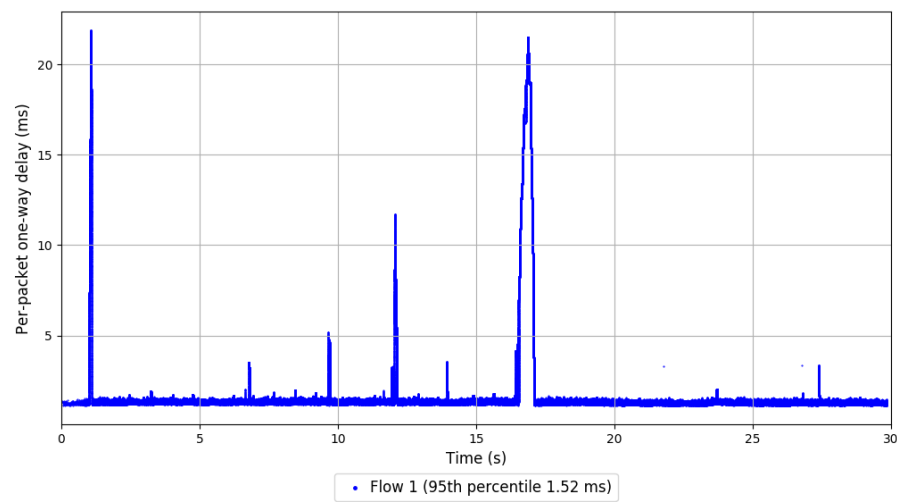
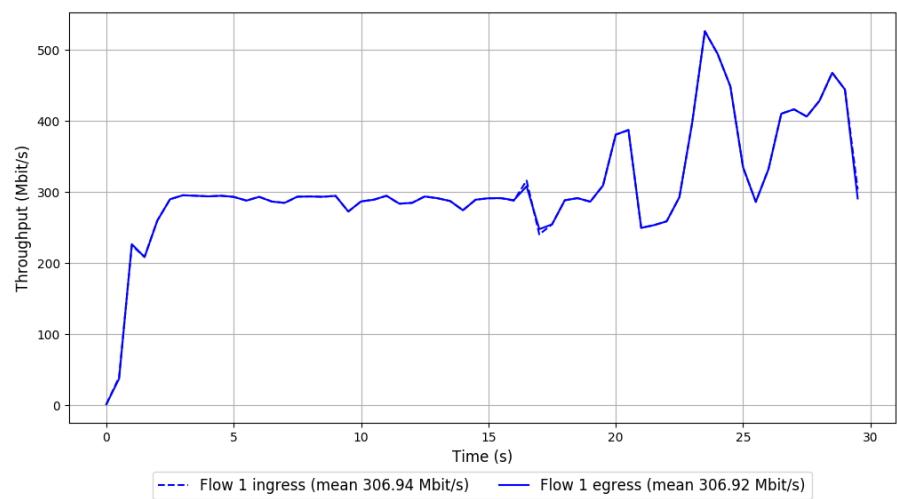
-- Flow 1:

Average throughput: 306.92 Mbit/s

95th percentile per-packet one-way delay: 1.524 ms

Loss rate: 0.08%

Run 7: Report of PCC-Vivace — Data Link

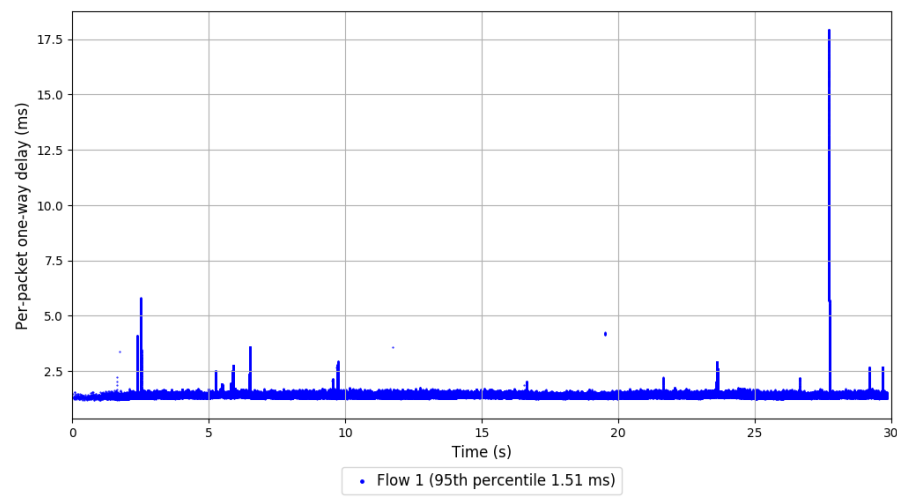
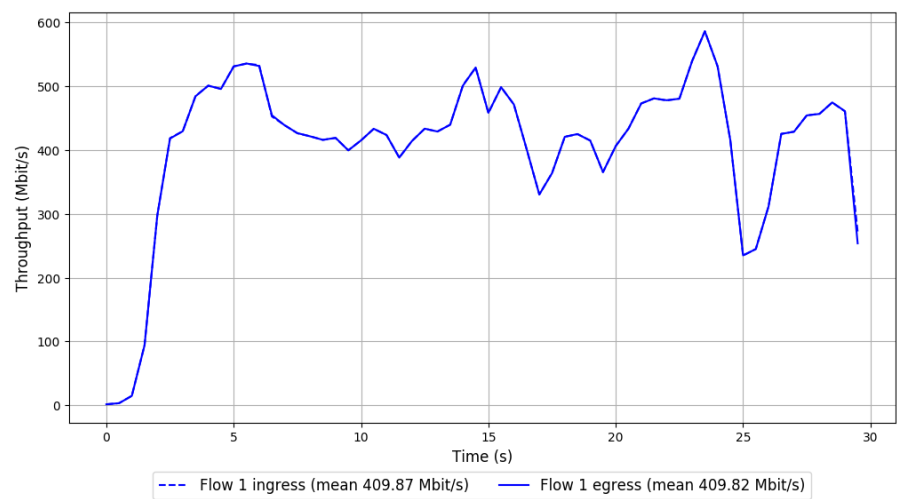


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 08:24:00  
End at: 2018-04-24 08:24:30  
Local clock offset: -1.11 ms  
Remote clock offset: -6.339 ms

# Below is generated by plot.py at 2018-04-24 15:21:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 409.82 Mbit/s  
95th percentile per-packet one-way delay: 1.507 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 409.82 Mbit/s  
95th percentile per-packet one-way delay: 1.507 ms  
Loss rate: 0.08%

Run 8: Report of PCC-Vivace — Data Link



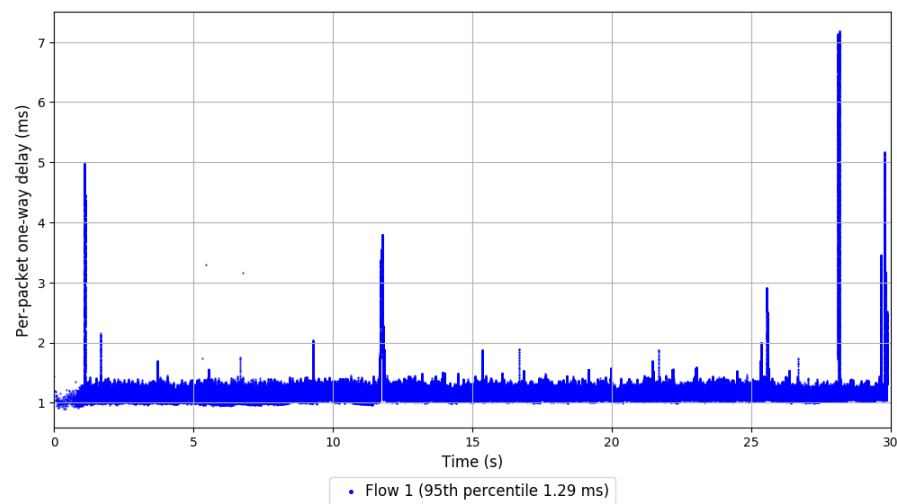
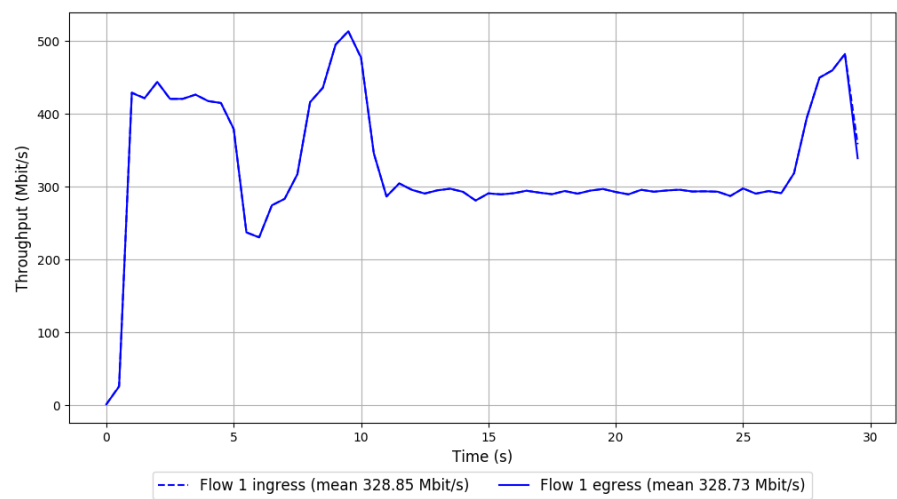
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 08:49:14  
End at: 2018-04-24 08:49:44  
Local clock offset: -0.807 ms  
Remote clock offset: -6.283 ms

# Below is generated by plot.py at 2018-04-24 15:21:54  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 328.73 Mbit/s  
95th percentile per-packet one-way delay: 1.295 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 328.73 Mbit/s  
95th percentile per-packet one-way delay: 1.295 ms  
Loss rate: 0.10%



Run 9: Report of PCC-Vivace — Data Link

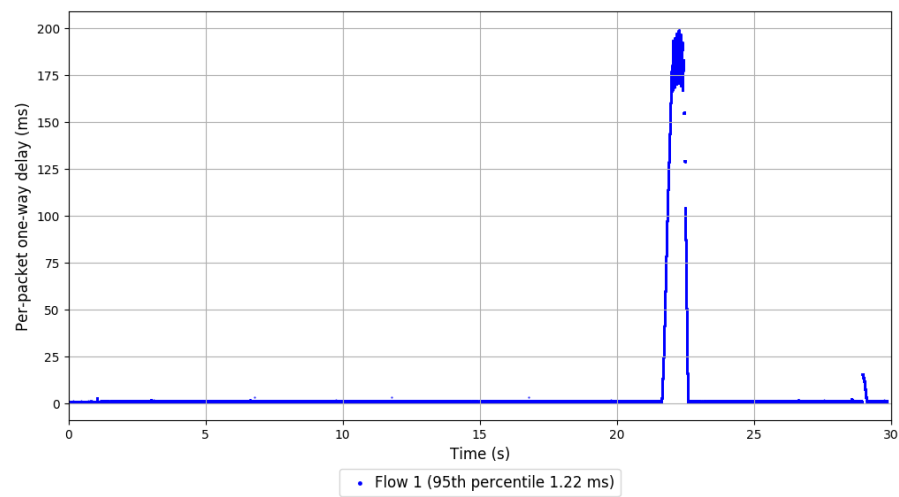
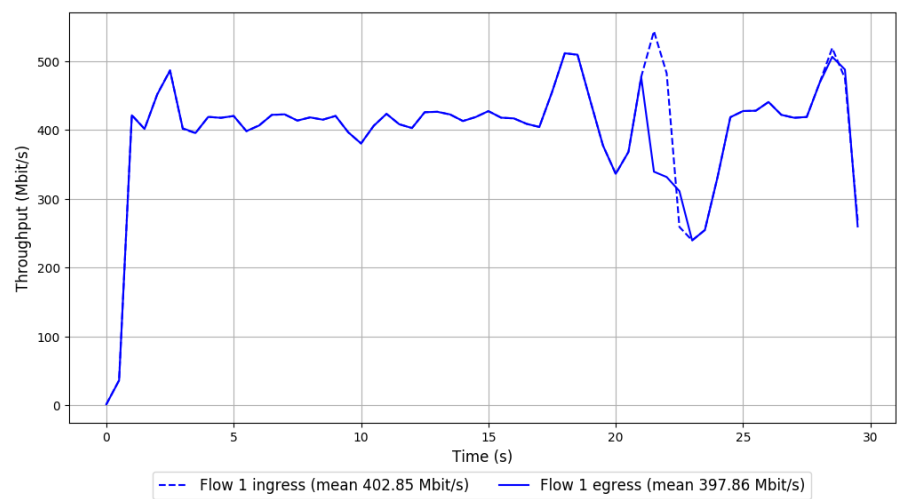


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 09:14:29  
End at: 2018-04-24 09:14:59  
Local clock offset: -0.398 ms  
Remote clock offset: -5.102 ms

# Below is generated by plot.py at 2018-04-24 15:21:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 397.86 Mbit/s  
95th percentile per-packet one-way delay: 1.224 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 397.86 Mbit/s  
95th percentile per-packet one-way delay: 1.224 ms  
Loss rate: 1.30%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 05:19:22  
End at: 2018-04-24 05:19:52  
Local clock offset: -1.127 ms  
Remote clock offset: -5.091 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 05:44:47

End at: 2018-04-24 05:45:17

Local clock offset: -1.648 ms

Remote clock offset: -5.121 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 06:10:05

End at: 2018-04-24 06:10:35

Local clock offset: -3.667 ms

Remote clock offset: -6.258 ms



Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 06:35:25

End at: 2018-04-24 06:35:55

Local clock offset: -1.297 ms

Remote clock offset: -6.982 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 07:00:51

End at: 2018-04-24 07:01:21

Local clock offset: 0.653 ms

Remote clock offset: -7.488 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 07:26:11

End at: 2018-04-24 07:26:42

Local clock offset: -0.093 ms

Remote clock offset: -5.162 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 07:51:31

End at: 2018-04-24 07:52:01

Local clock offset: -1.64 ms

Remote clock offset: -5.879 ms



Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 08:16:54

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

Local clock offset: -1.273 ms

Remote clock offset: -6.32 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 08:42:09

End at: 2018-04-24 08:42:39

Local clock offset: -0.855 ms

Remote clock offset: -6.269 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 09:07:19

End at: 2018-04-24 09:07:49

Local clock offset: -0.563 ms

Remote clock offset: -5.222 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing