

## Pantheon Report

Generated at 2018-04-17 08:10:57 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

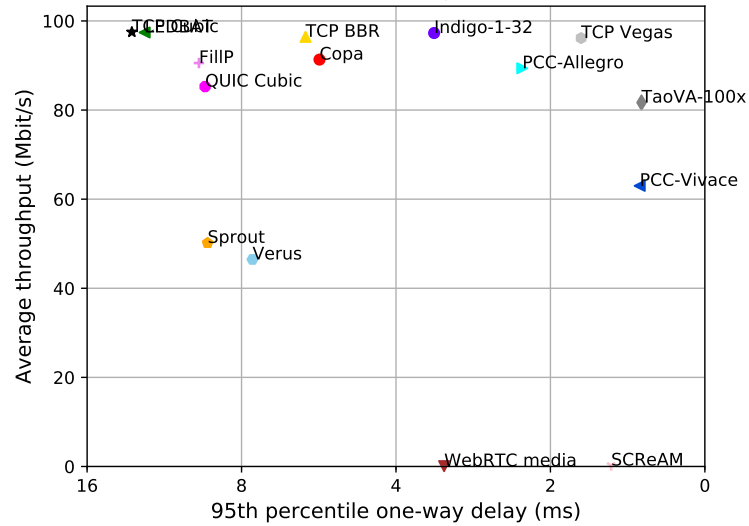
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

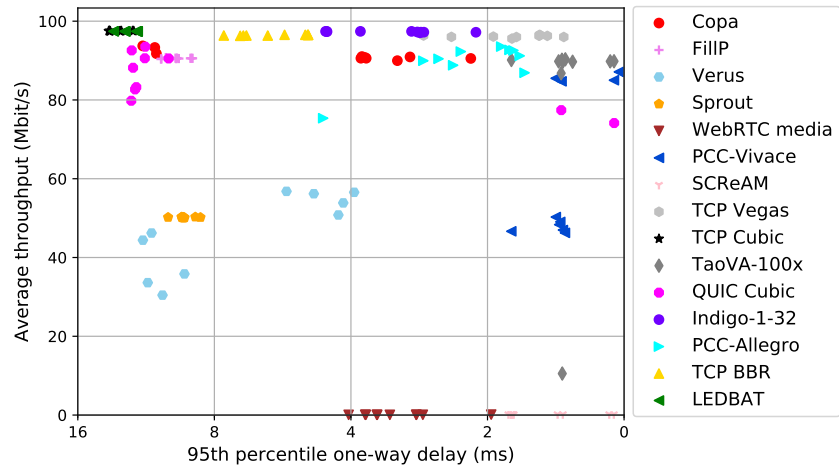
Git summary:

```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 Brazil Ethernet to AWS Brazil 1 Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	96.43	6.00	0.02
TCP Cubic	10	97.50	13.09	0.05
LEDBAT	10	97.42	12.36	0.04
PCC-Allegro	10	89.38	2.27	0.01
QUIC Cubic	10	85.27	9.42	0.03
SCReAM	10	0.22	1.21	0.00
WebRTC media	10	0.07	3.22	0.01
Sprout	10	50.18	9.32	0.02
TaoVA-100x	10	81.68	0.82	0.01
TCP Vegas	10	96.16	1.60	0.01
Verus	10	46.47	7.62	0.01
Copa	10	91.32	5.64	0.02
FillP	10	90.55	9.69	0.02
Indigo-1-32	10	97.29	3.37	0.01
PCC-Vivace	10	62.99	0.84	0.01
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 01:23:42

End at: 2018-04-17 01:24:12

Local clock offset: -6.285 ms

Remote clock offset: -6.597 ms

# Below is generated by plot.py at 2018-04-17 07:48:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 6.102 ms

Loss rate: 0.02%

-- Flow 1:

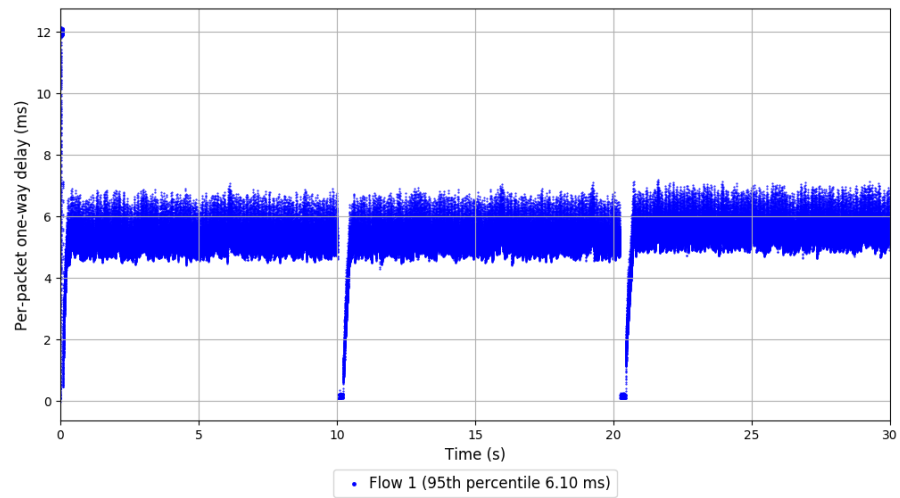
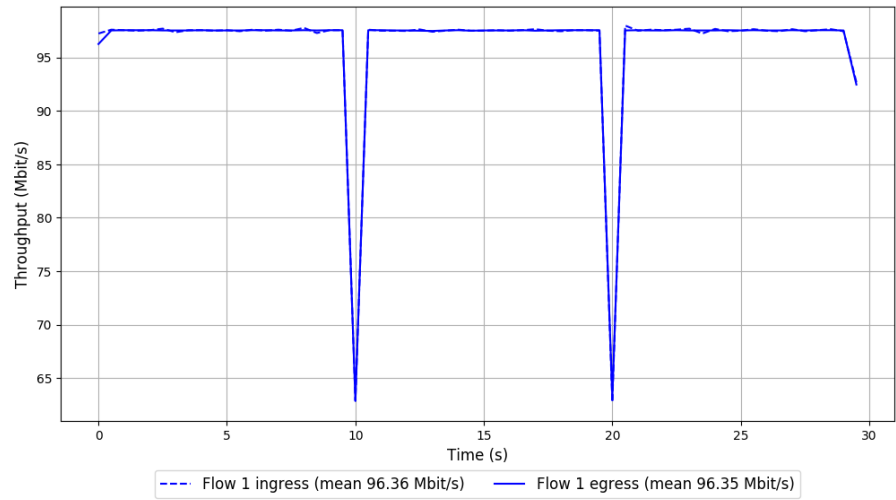
Average throughput: 96.35 Mbit/s

95th percentile per-packet one-way delay: 6.102 ms

Loss rate: 0.02%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-17 01:42:46

End at: 2018-04-17 01:43:16

Local clock offset: -5.631 ms

Remote clock offset: -6.705 ms

# Below is generated by plot.py at 2018-04-17 07:48:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 7.016 ms

Loss rate: 0.02%

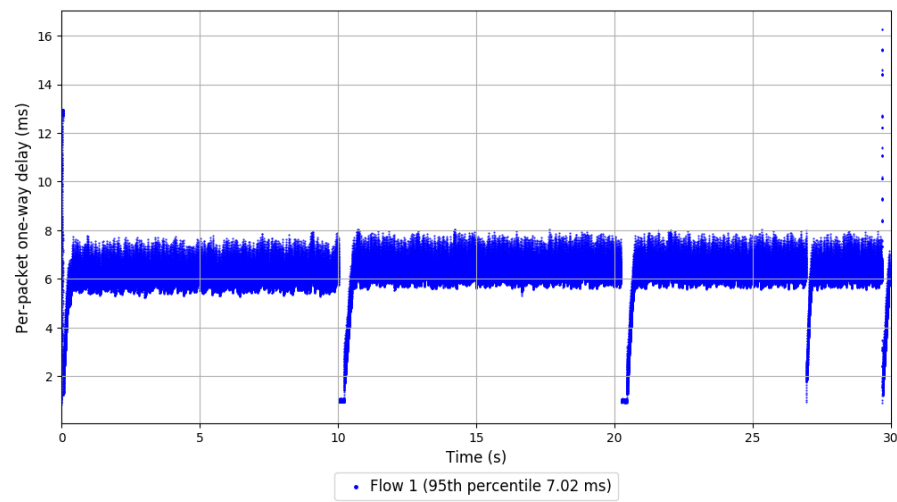
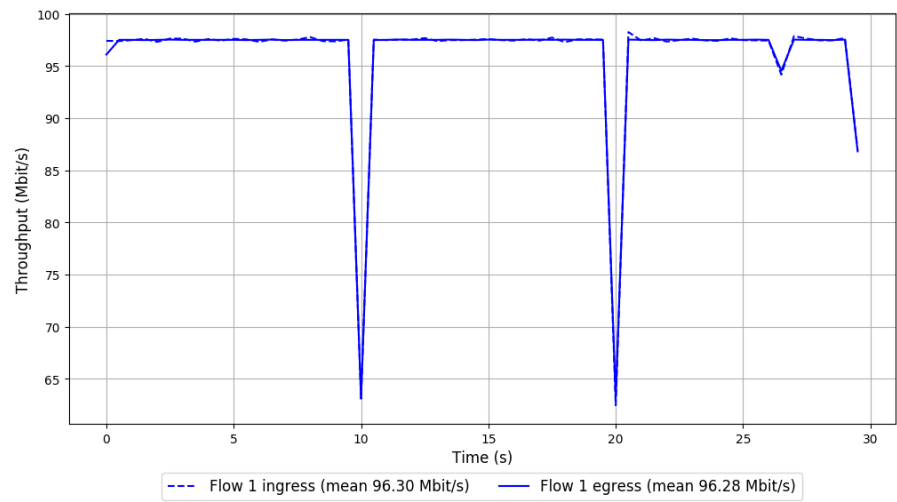
-- Flow 1:

Average throughput: 96.28 Mbit/s

95th percentile per-packet one-way delay: 7.016 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-17 02:01:42

End at: 2018-04-17 02:02:12

Local clock offset: -6.543 ms

Remote clock offset: -6.973 ms

# Below is generated by plot.py at 2018-04-17 07:48:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 4.972 ms

Loss rate: 0.02%

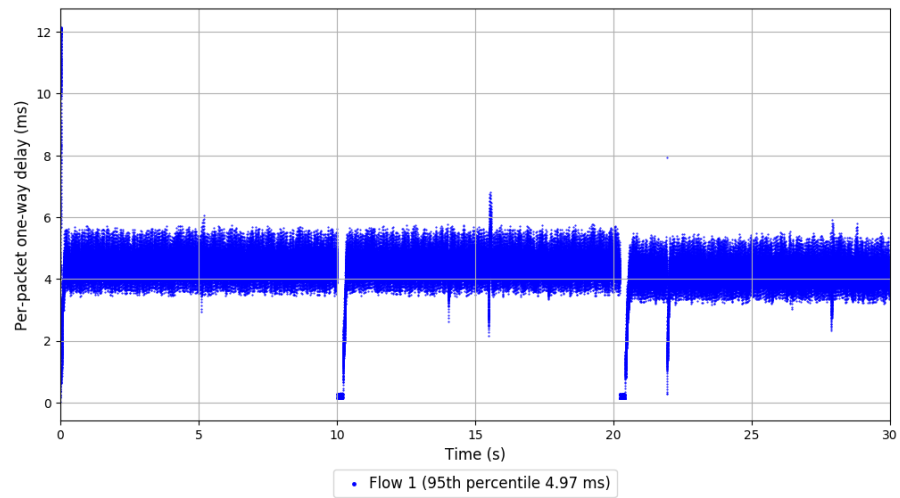
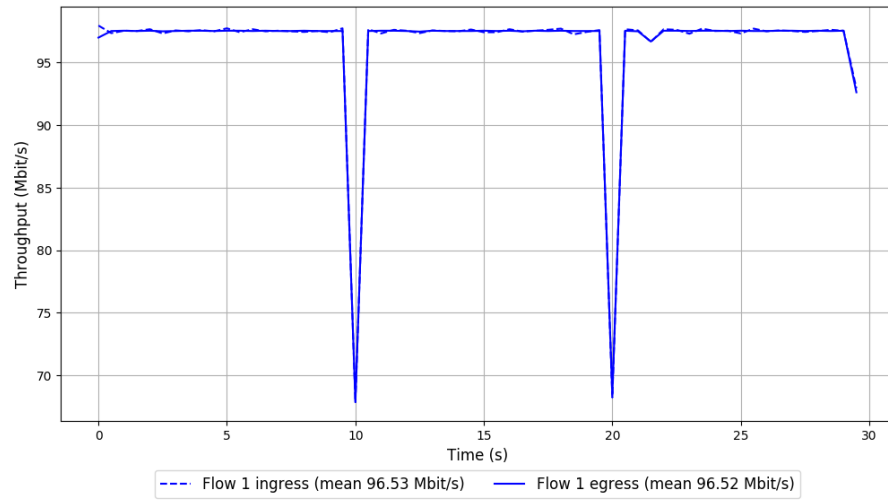
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 4.972 ms

Loss rate: 0.02%

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



Run 4: Statistics of TCP BBR

Start at: 2018-04-17 02:20:44

End at: 2018-04-17 02:21:14

Local clock offset: -6.798 ms

Remote clock offset: -6.604 ms

# Below is generated by plot.py at 2018-04-17 07:48:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 5.042 ms

Loss rate: 0.02%

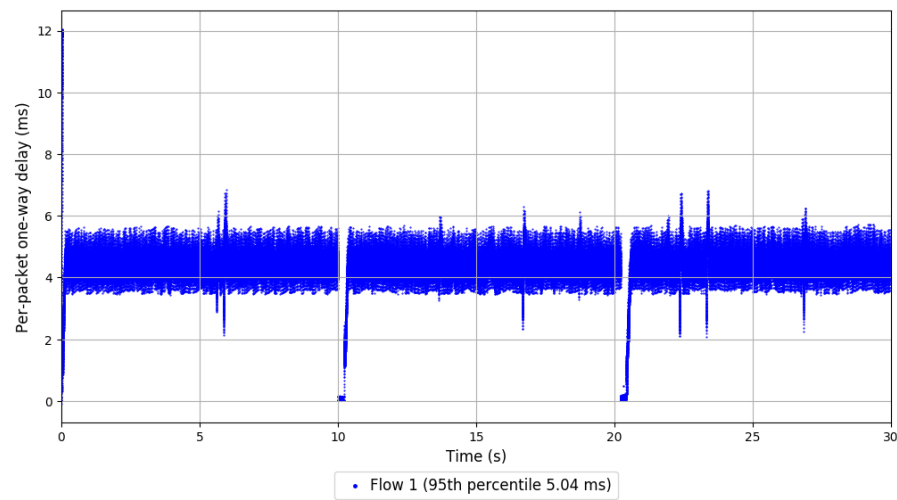
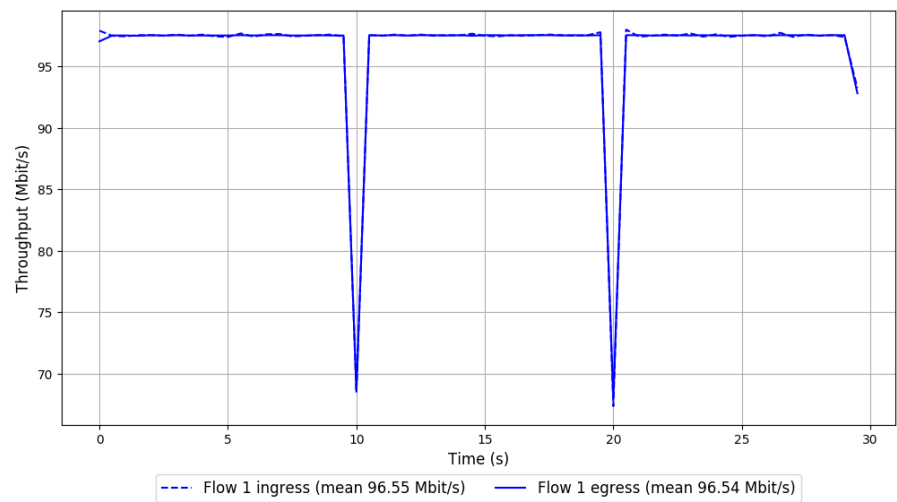
-- Flow 1:

Average throughput: 96.54 Mbit/s

95th percentile per-packet one-way delay: 5.042 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 02:39:46

End at: 2018-04-17 02:40:16

Local clock offset: -5.834 ms

Remote clock offset: -6.21 ms

# Below is generated by plot.py at 2018-04-17 07:48:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 6.800 ms

Loss rate: 0.02%

-- Flow 1:

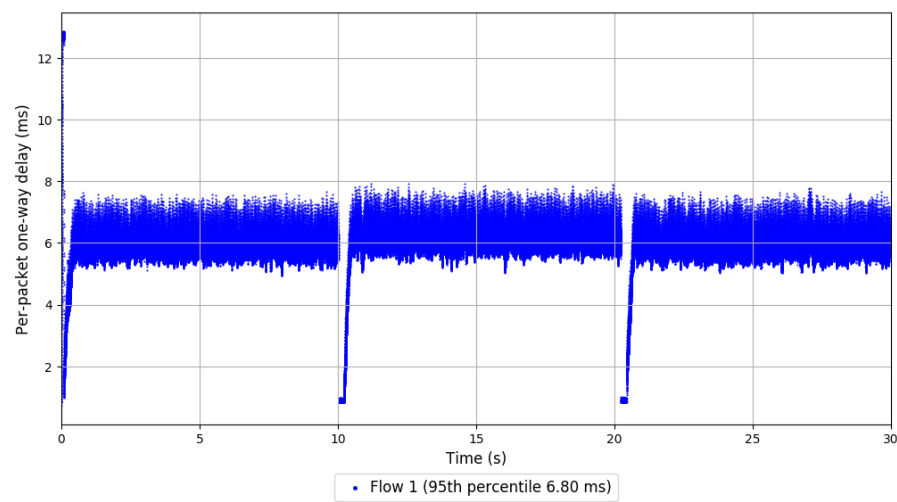
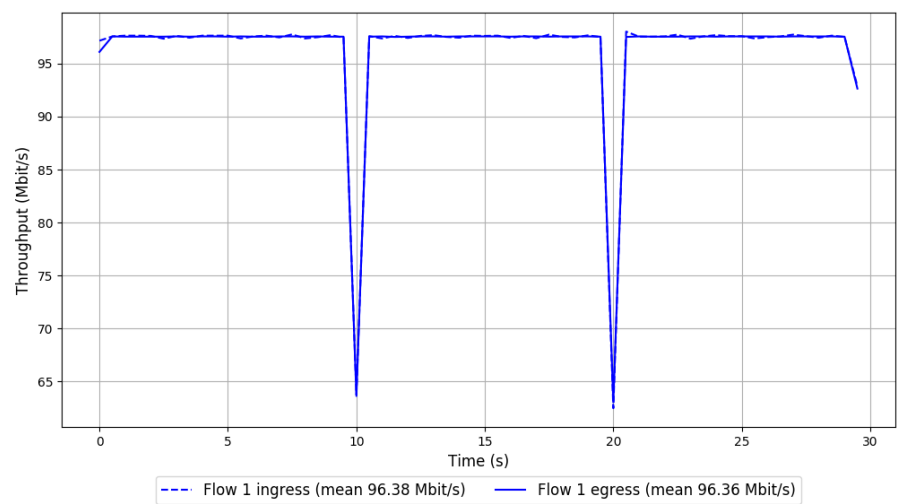
Average throughput: 96.36 Mbit/s

95th percentile per-packet one-way delay: 6.800 ms

Loss rate: 0.02%



Run 5: Report of TCP BBR — Data Link

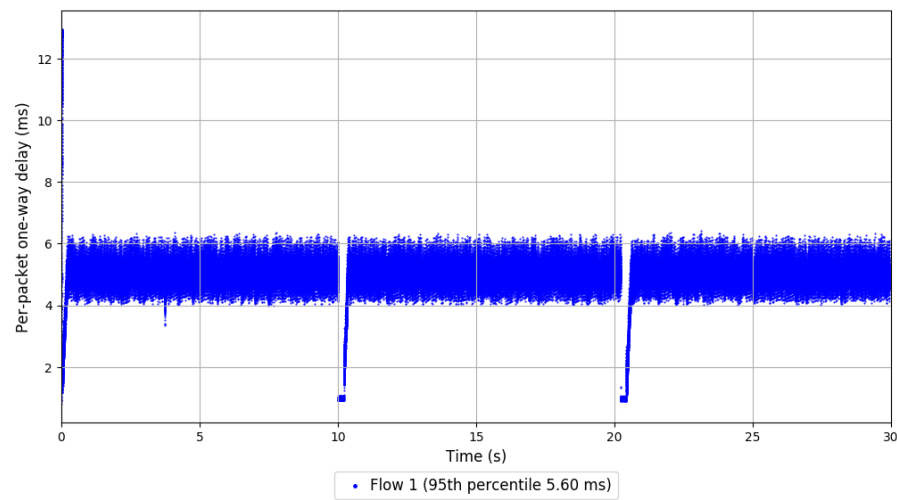
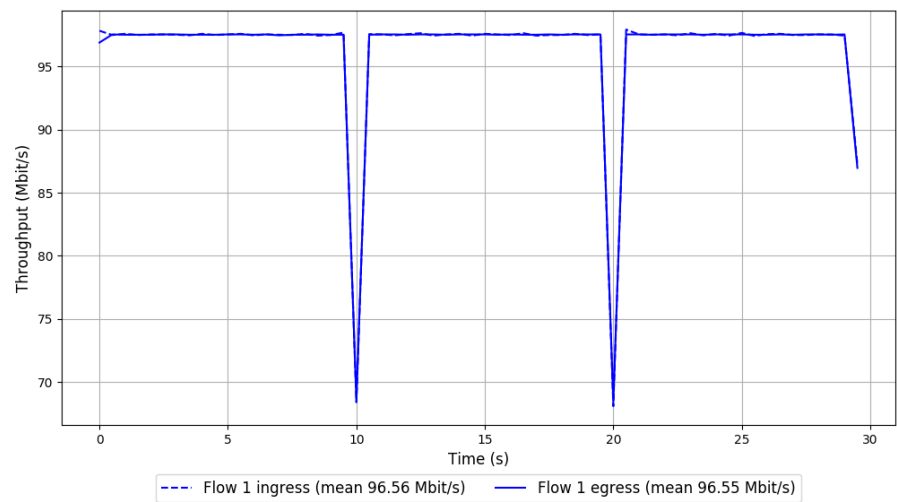


Run 6: Statistics of TCP BBR

Start at: 2018-04-17 02:58:48  
End at: 2018-04-17 02:59:18  
Local clock offset: -5.585 ms  
Remote clock offset: -6.572 ms

# Below is generated by plot.py at 2018-04-17 07:48:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.55 Mbit/s  
95th percentile per-packet one-way delay: 5.602 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 96.55 Mbit/s  
95th percentile per-packet one-way delay: 5.602 ms  
Loss rate: 0.02%

Run 6: Report of TCP BBR — Data Link

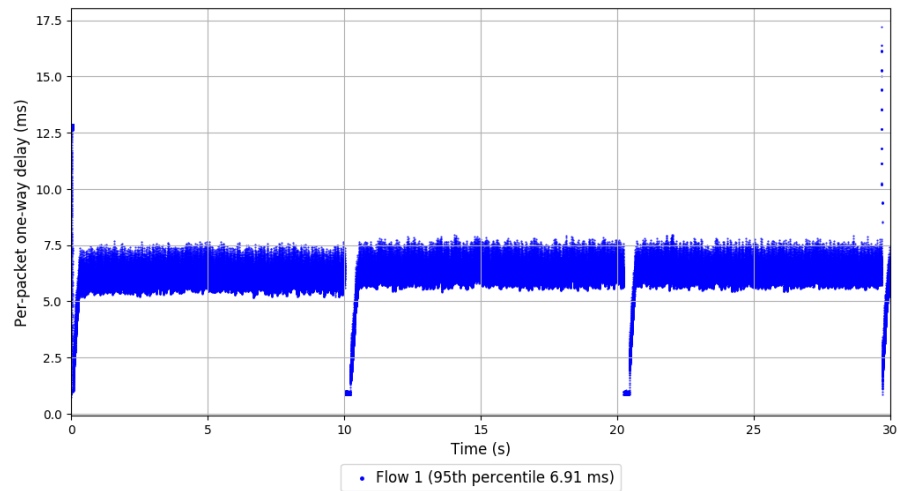
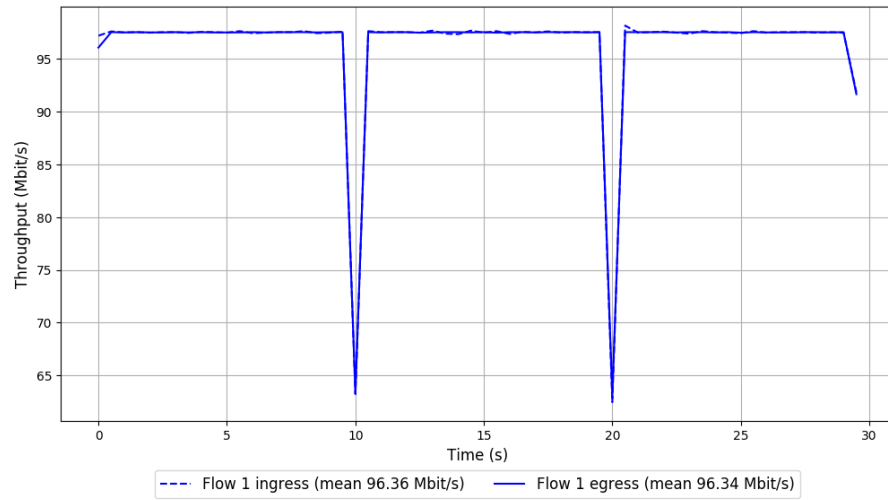


Run 7: Statistics of TCP BBR

Start at: 2018-04-17 03:17:51  
End at: 2018-04-17 03:18:21  
Local clock offset: -5.695 ms  
Remote clock offset: -6.507 ms

# Below is generated by plot.py at 2018-04-17 07:48:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.34 Mbit/s  
95th percentile per-packet one-way delay: 6.906 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 96.34 Mbit/s  
95th percentile per-packet one-way delay: 6.906 ms  
Loss rate: 0.02%

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

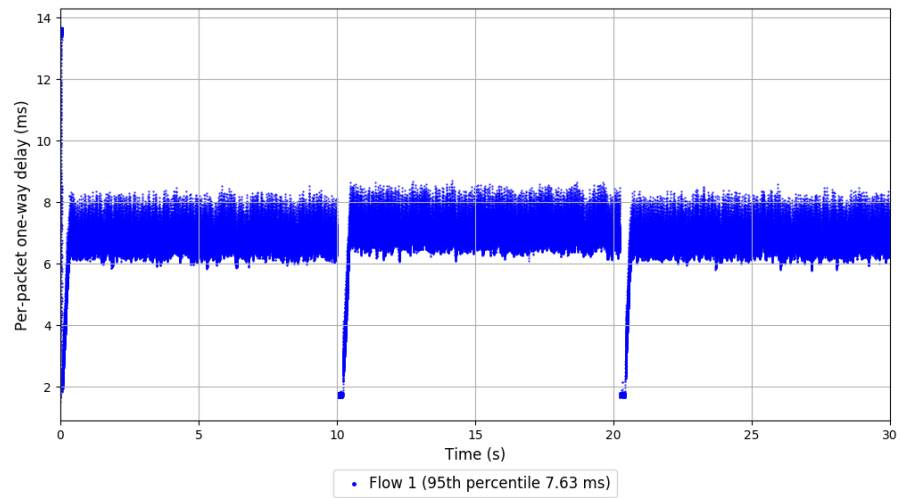
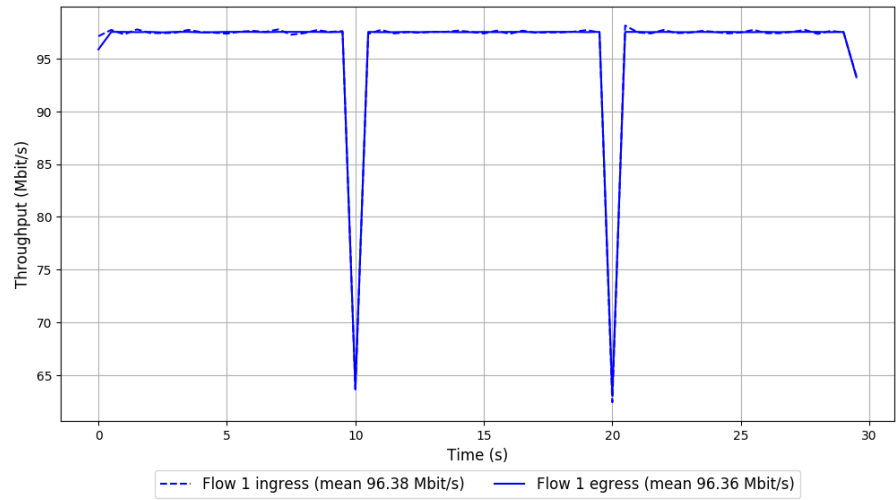


Run 8: Statistics of TCP BBR

Start at: 2018-04-17 03:36:56  
End at: 2018-04-17 03:37:27  
Local clock offset: -4.994 ms  
Remote clock offset: -7.004 ms

# Below is generated by plot.py at 2018-04-17 07:48:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.36 Mbit/s  
95th percentile per-packet one-way delay: 7.626 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 96.36 Mbit/s  
95th percentile per-packet one-way delay: 7.626 ms  
Loss rate: 0.02%

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



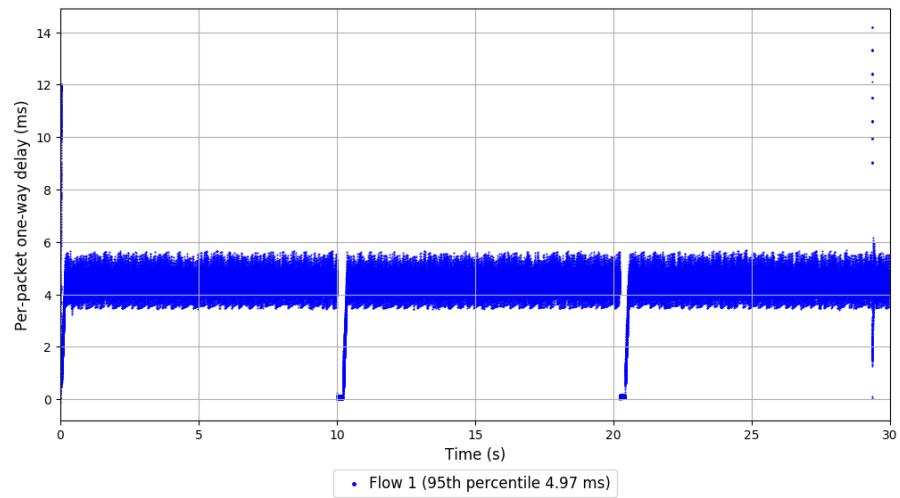
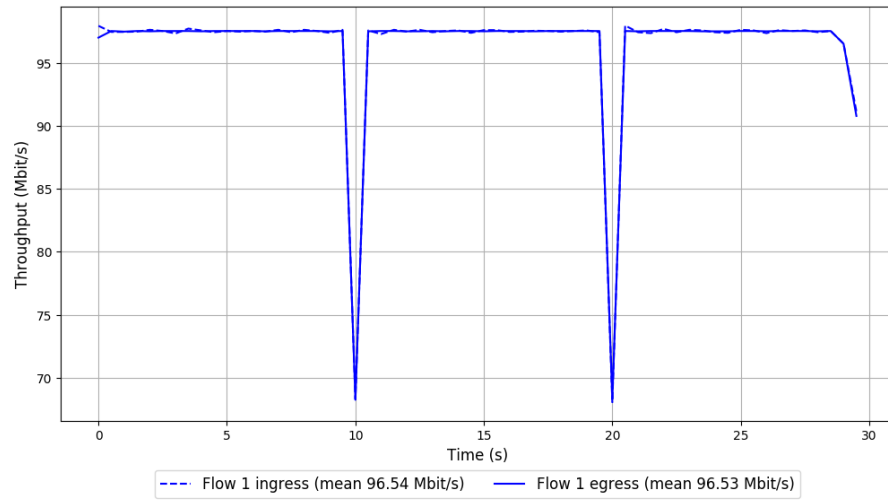
Run 9: Statistics of TCP BBR

Start at: 2018-04-17 03:56:01  
End at: 2018-04-17 03:56:31  
Local clock offset: -6.592 ms  
Remote clock offset: -7.128 ms

# Below is generated by plot.py at 2018-04-17 07:49:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.53 Mbit/s  
95th percentile per-packet one-way delay: 4.972 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 96.53 Mbit/s  
95th percentile per-packet one-way delay: 4.972 ms  
Loss rate: 0.02%



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



Run 10: Statistics of TCP BBR

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

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

Local clock offset: -6.63 ms

Remote clock offset: -7.027 ms

# Below is generated by plot.py at 2018-04-17 07:49:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 4.980 ms

Loss rate: 0.02%

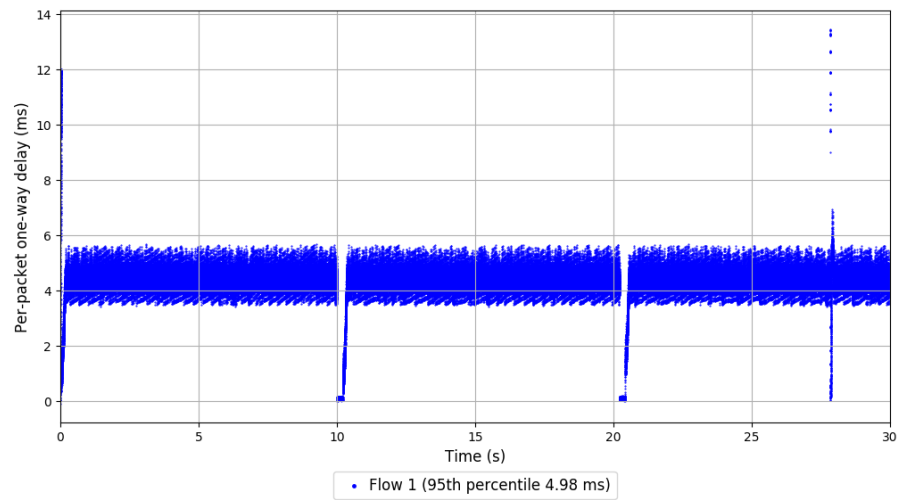
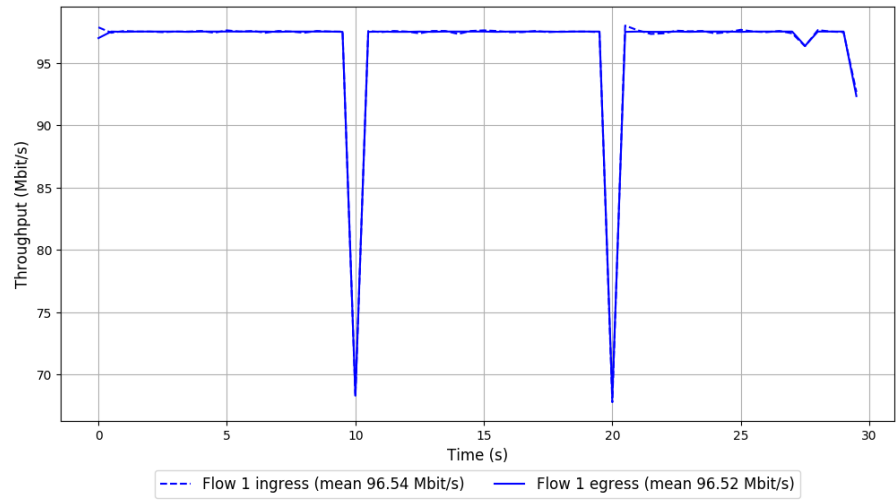
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 4.980 ms

Loss rate: 0.02%

# Run 10: Report of TCP BBR — Data Link

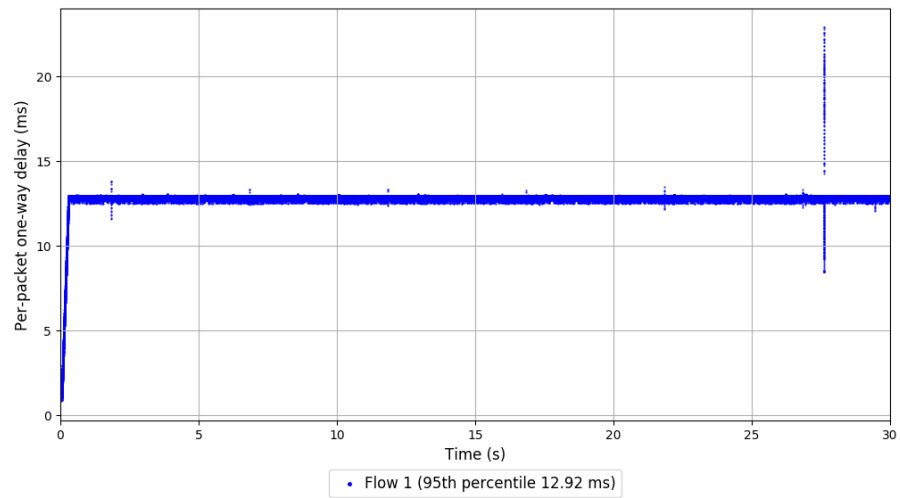
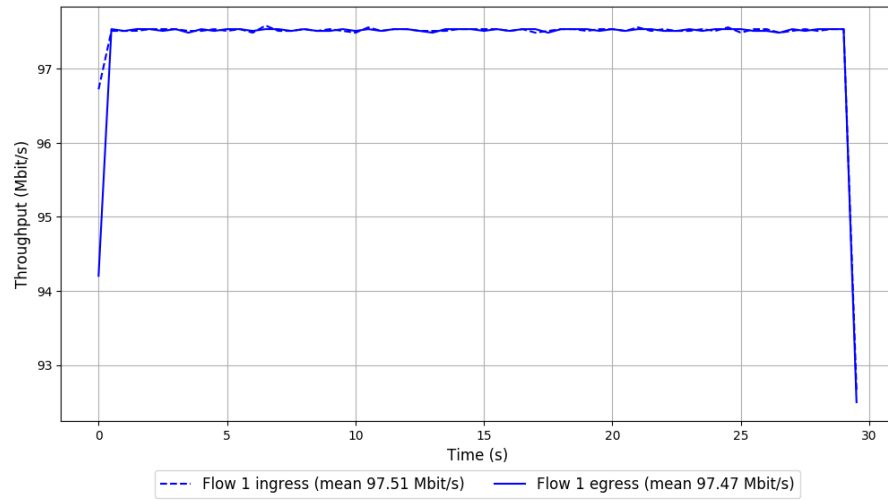


Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 01:37:05  
End at: 2018-04-17 01:37:35  
Local clock offset: -5.585 ms  
Remote clock offset: -6.525 ms

# Below is generated by plot.py at 2018-04-17 07:49:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 12.919 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 12.919 ms  
Loss rate: 0.05%

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

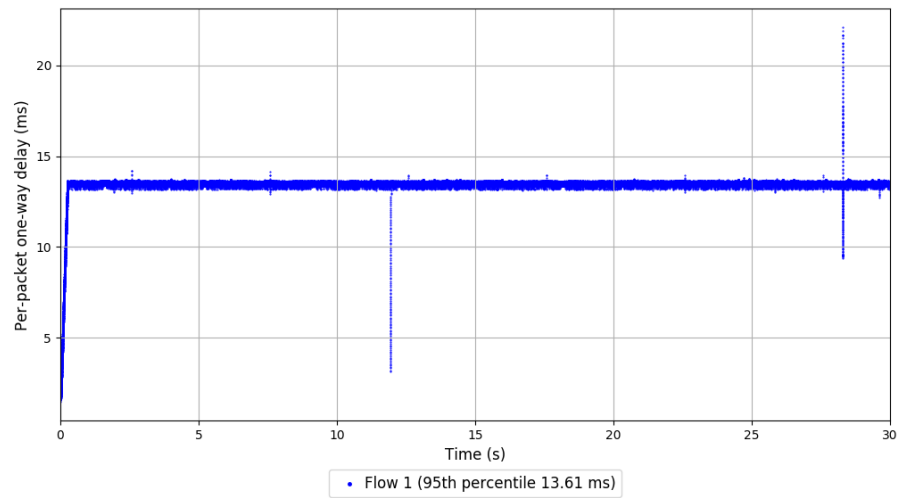
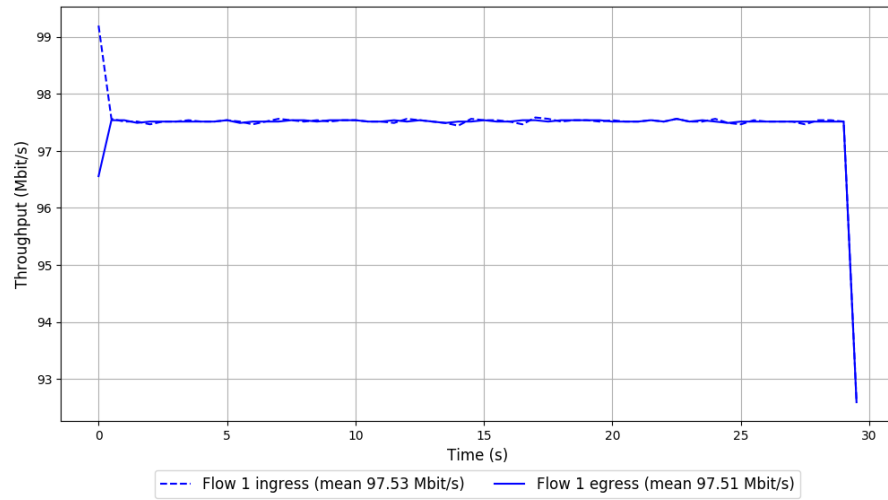


Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 01:56:02  
End at: 2018-04-17 01:56:32  
Local clock offset: -4.927 ms  
Remote clock offset: -6.874 ms

# Below is generated by plot.py at 2018-04-17 07:49:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 13.611 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.51 Mbit/s  
95th percentile per-packet one-way delay: 13.611 ms  
Loss rate: 0.05%

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



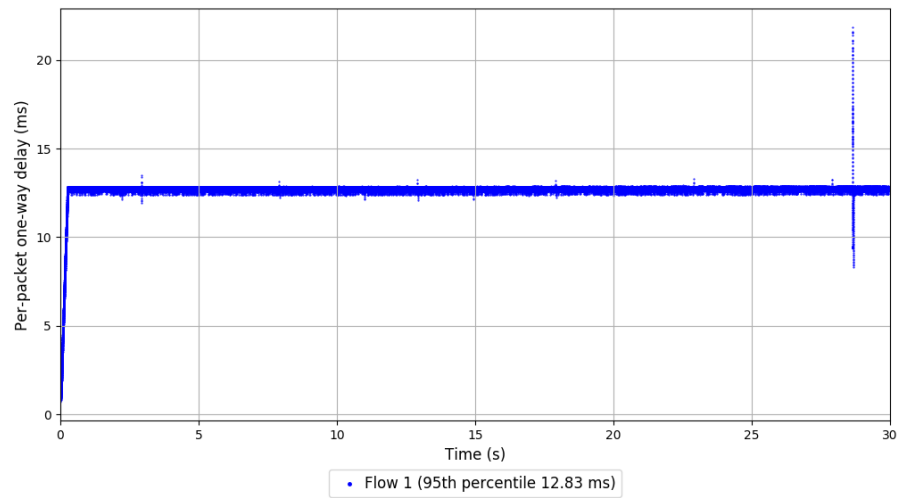
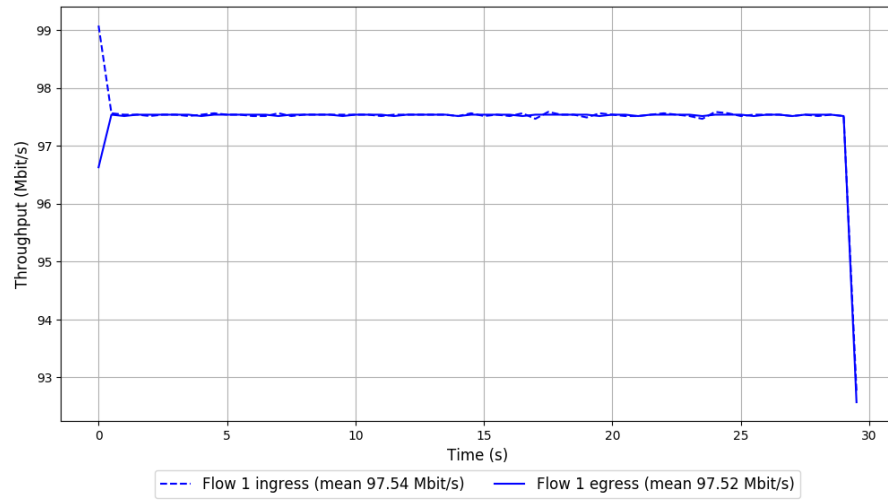
Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 02:15:03  
End at: 2018-04-17 02:15:33  
Local clock offset: -5.978 ms  
Remote clock offset: -6.841 ms

# Below is generated by plot.py at 2018-04-17 07:49:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 12.826 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 12.826 ms  
Loss rate: 0.05%



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

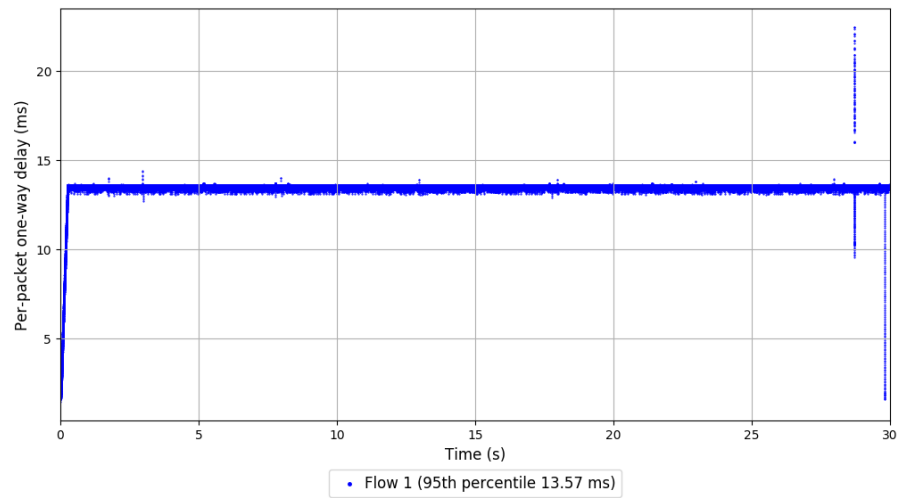
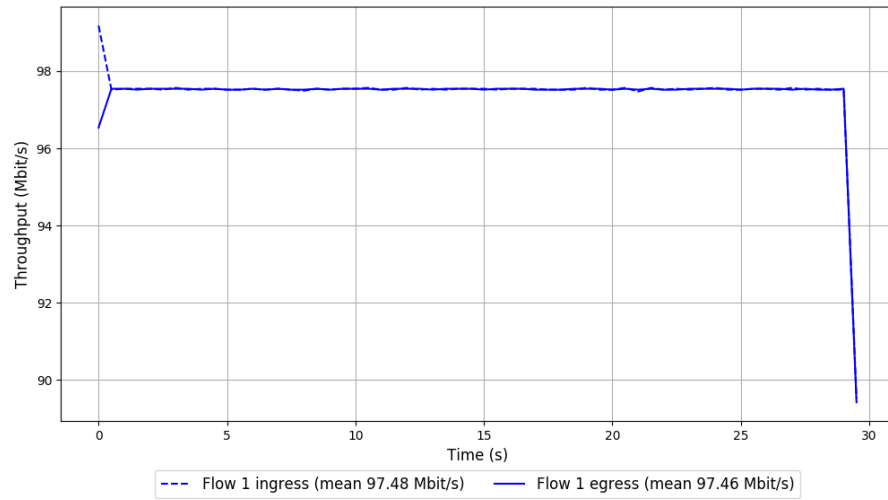


Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 02:34:05  
End at: 2018-04-17 02:34:35  
Local clock offset: -5.28 ms  
Remote clock offset: -6.306 ms

# Below is generated by plot.py at 2018-04-17 07:49:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 13.571 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.46 Mbit/s  
95th percentile per-packet one-way delay: 13.571 ms  
Loss rate: 0.05%

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

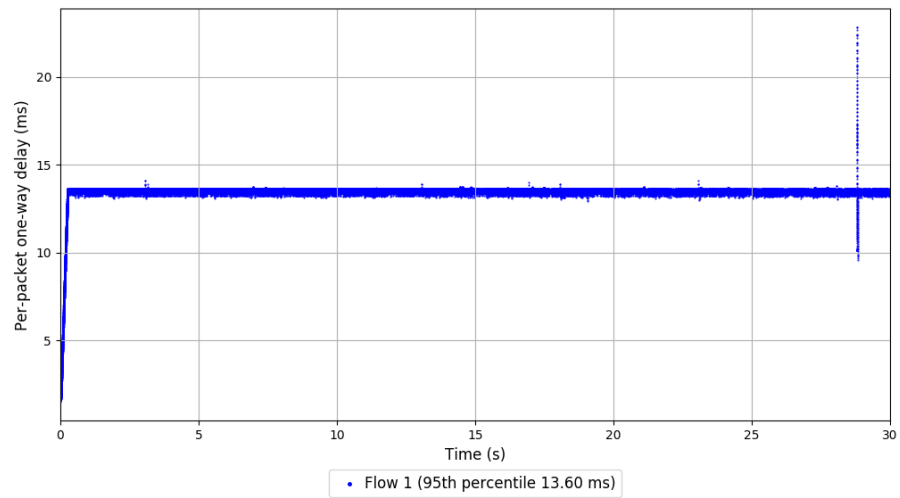
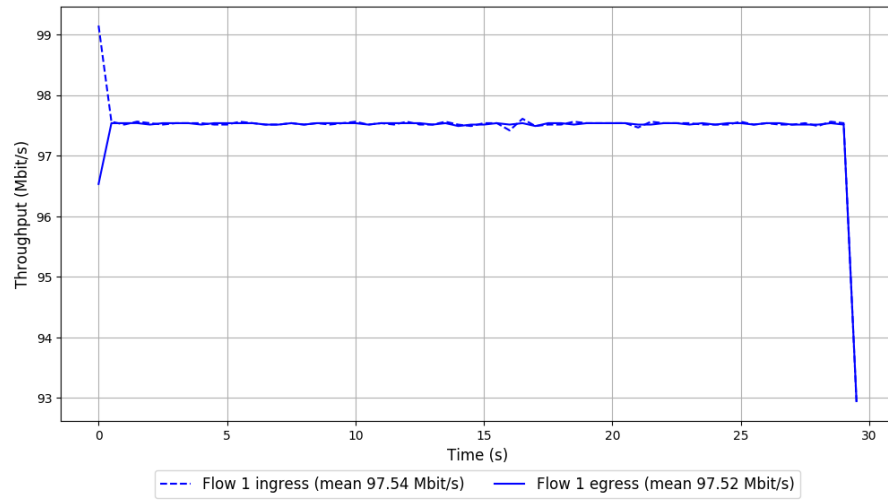


Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 02:53:07  
End at: 2018-04-17 02:53:37  
Local clock offset: -4.856 ms  
Remote clock offset: -6.376 ms

# Below is generated by plot.py at 2018-04-17 07:49:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 13.603 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 13.603 ms  
Loss rate: 0.05%

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

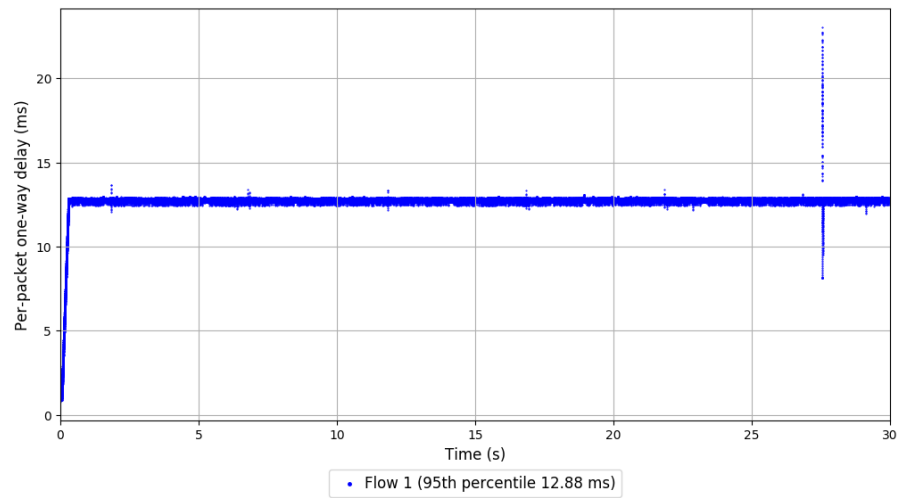
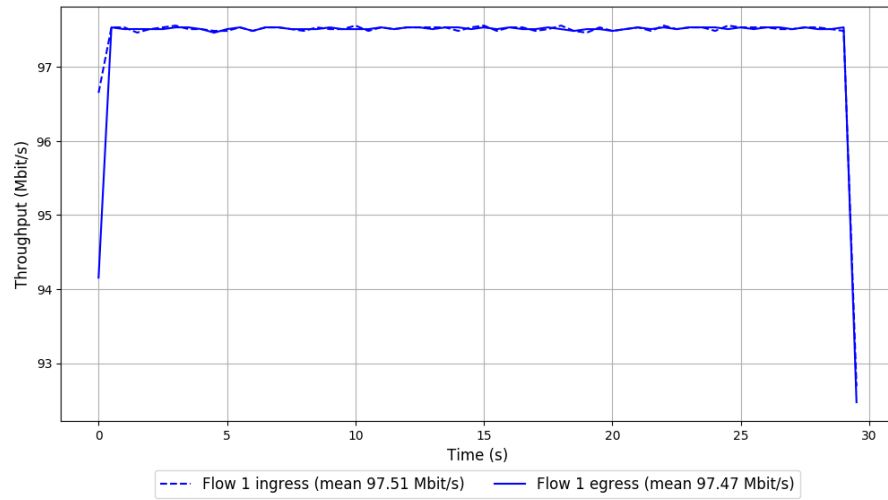


Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 03:12:10  
End at: 2018-04-17 03:12:40  
Local clock offset: -5.591 ms  
Remote clock offset: -6.523 ms

# Below is generated by plot.py at 2018-04-17 07:49:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 12.877 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.47 Mbit/s  
95th percentile per-packet one-way delay: 12.877 ms  
Loss rate: 0.05%

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



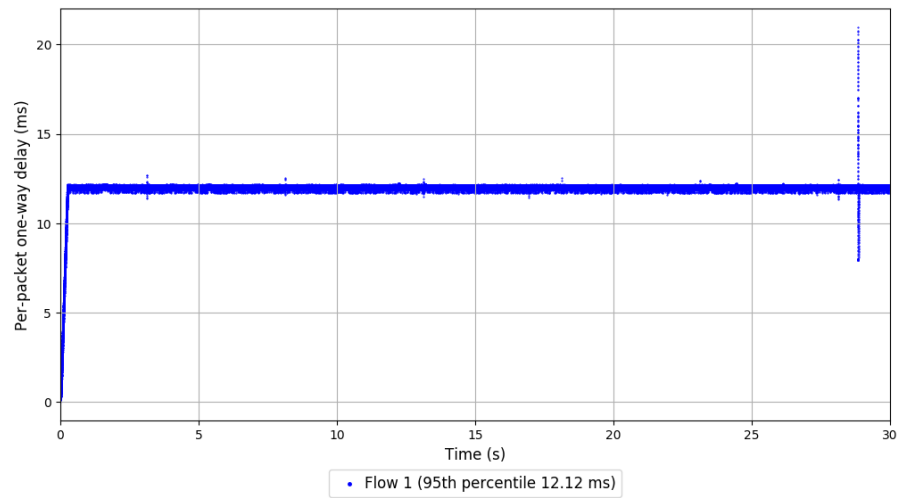
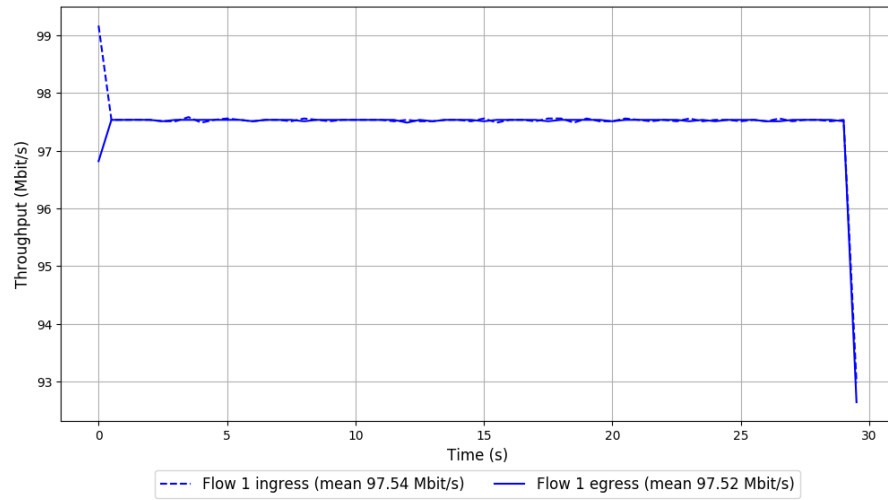
Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 03:31:16  
End at: 2018-04-17 03:31:46  
Local clock offset: -6.466 ms  
Remote clock offset: -6.838 ms

# Below is generated by plot.py at 2018-04-17 07:50:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 12.119 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 12.119 ms  
Loss rate: 0.05%



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

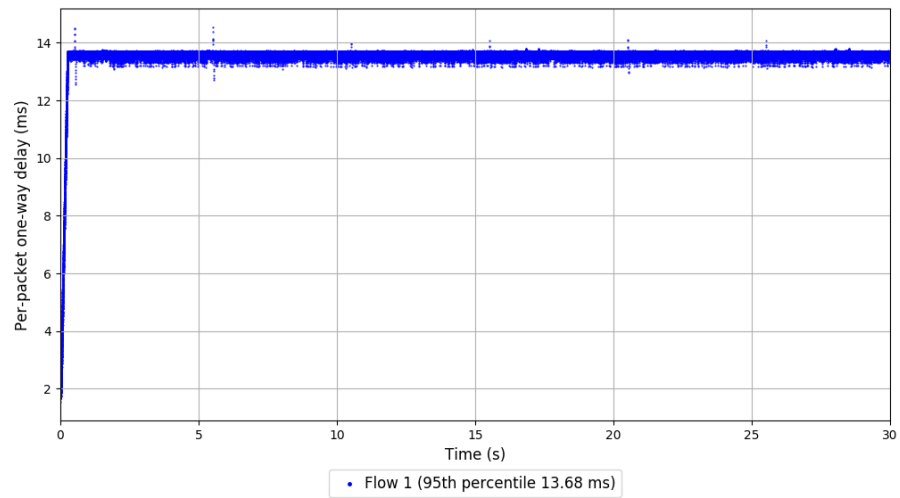
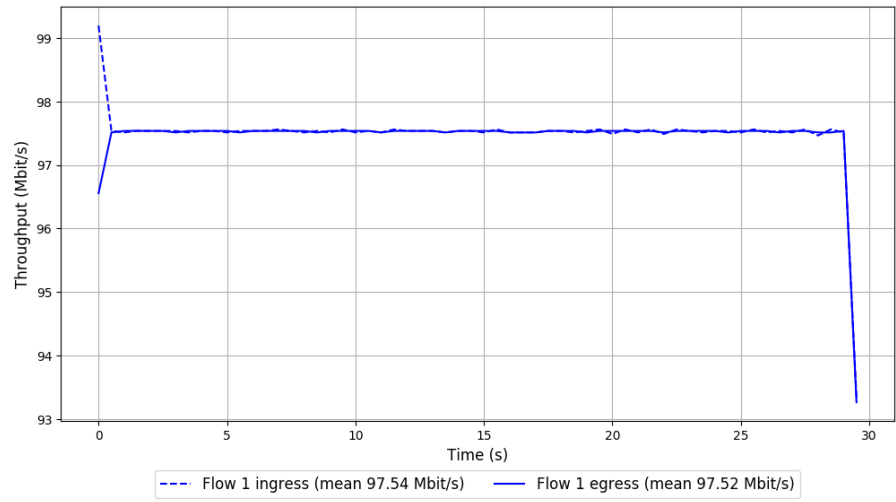


Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 03:50:20  
End at: 2018-04-17 03:50:50  
Local clock offset: -5.01 ms  
Remote clock offset: -7.163 ms

# Below is generated by plot.py at 2018-04-17 07:50:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 13.677 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 13.677 ms  
Loss rate: 0.05%

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

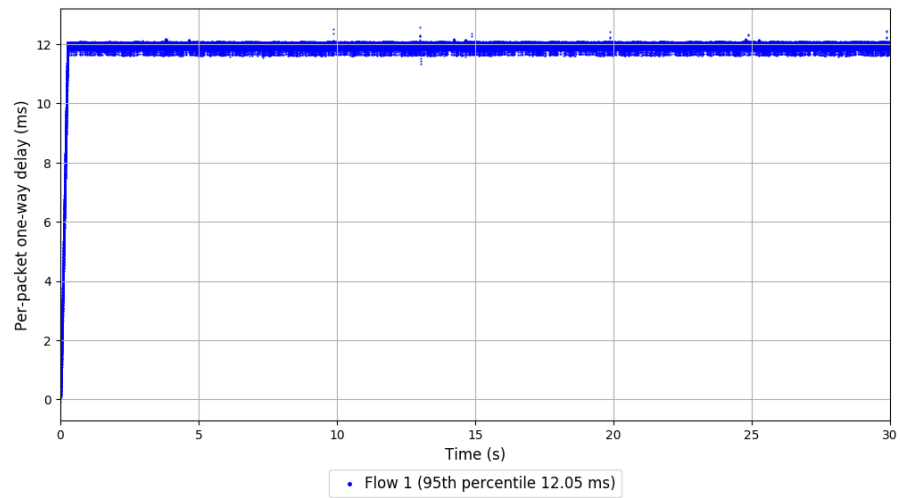
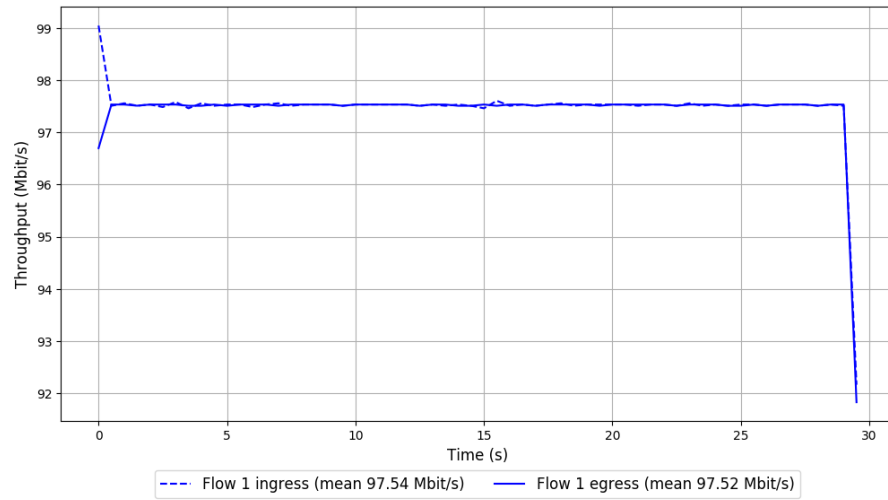


Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 04:09:23  
End at: 2018-04-17 04:09:53  
Local clock offset: -6.562 ms  
Remote clock offset: -7.038 ms

# Below is generated by plot.py at 2018-04-17 07:51:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 12.052 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.52 Mbit/s  
95th percentile per-packet one-way delay: 12.052 ms  
Loss rate: 0.05%

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



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 04:28:27

End at: 2018-04-17 04:28:57

Local clock offset: -5.072 ms

Remote clock offset: -7.028 ms

# Below is generated by plot.py at 2018-04-17 07:51:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 13.631 ms

Loss rate: 0.05%

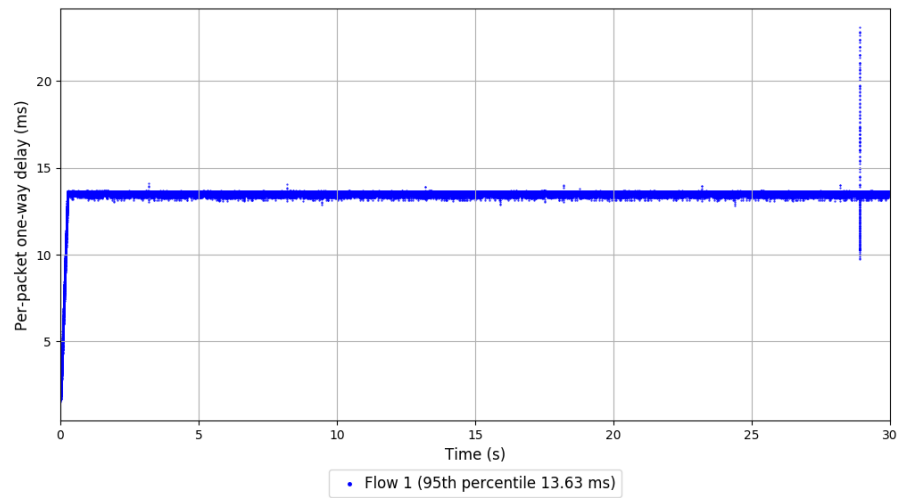
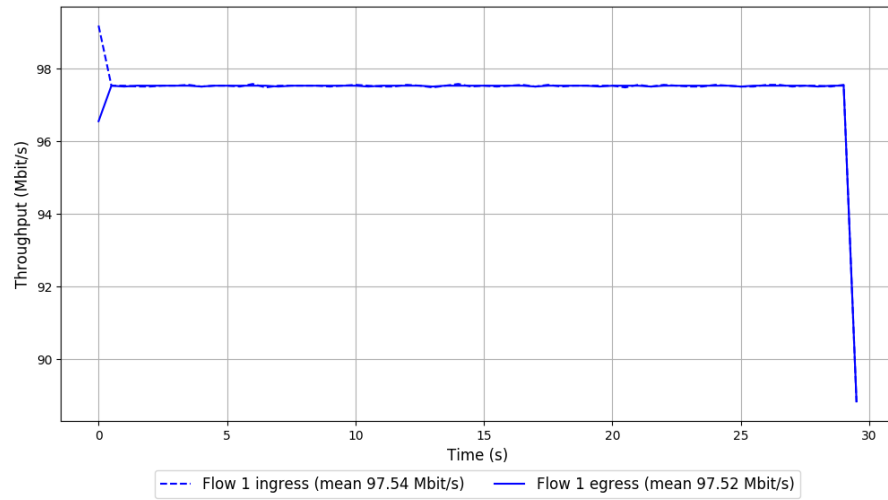
-- Flow 1:

Average throughput: 97.52 Mbit/s

95th percentile per-packet one-way delay: 13.631 ms

Loss rate: 0.05%

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



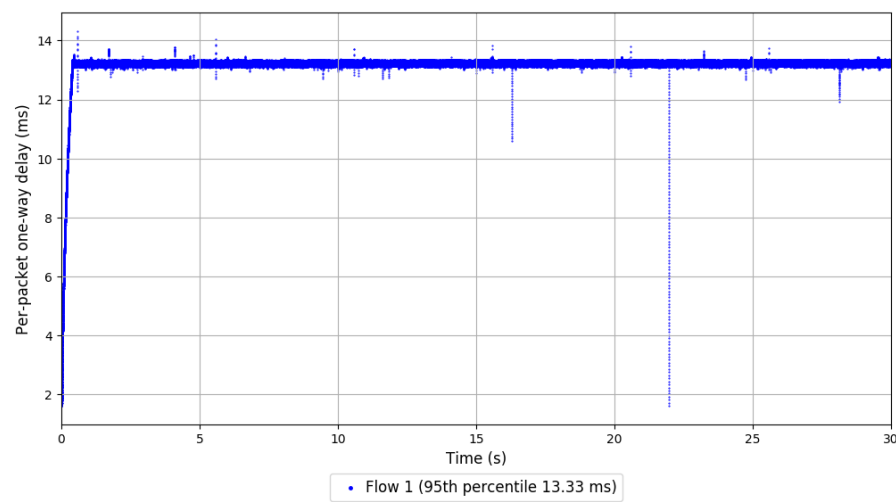
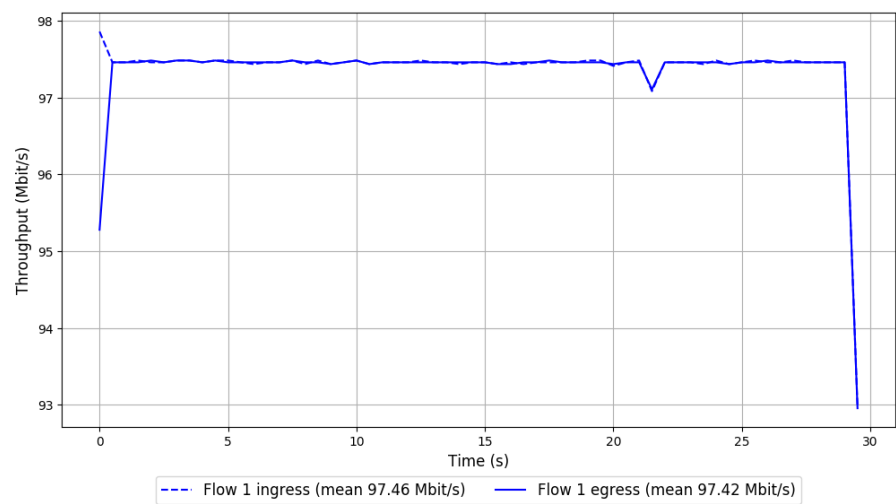
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 01:38:13  
End at: 2018-04-17 01:38:43  
Local clock offset: -4.875 ms  
Remote clock offset: -6.511 ms

# Below is generated by plot.py at 2018-04-17 07:51:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 13.326 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 97.42 Mbit/s  
95th percentile per-packet one-way delay: 13.326 ms  
Loss rate: 0.04%



Run 1: Report of LEDBAT — Data Link

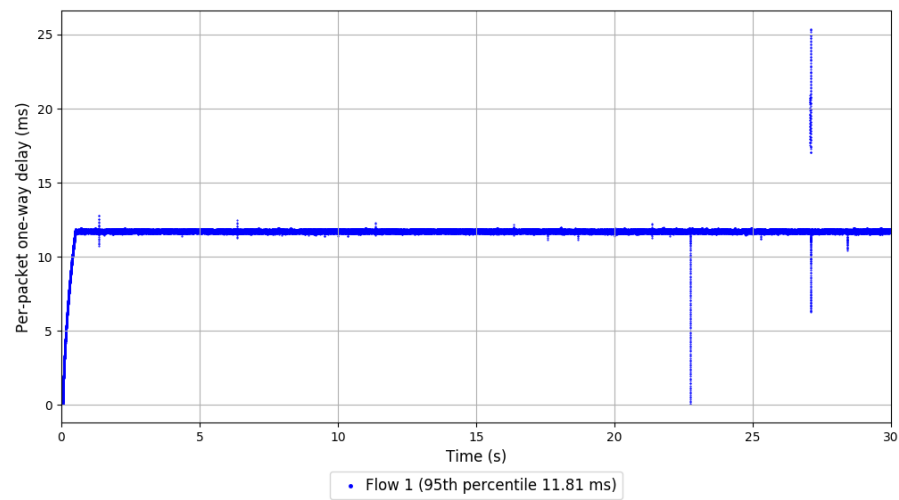
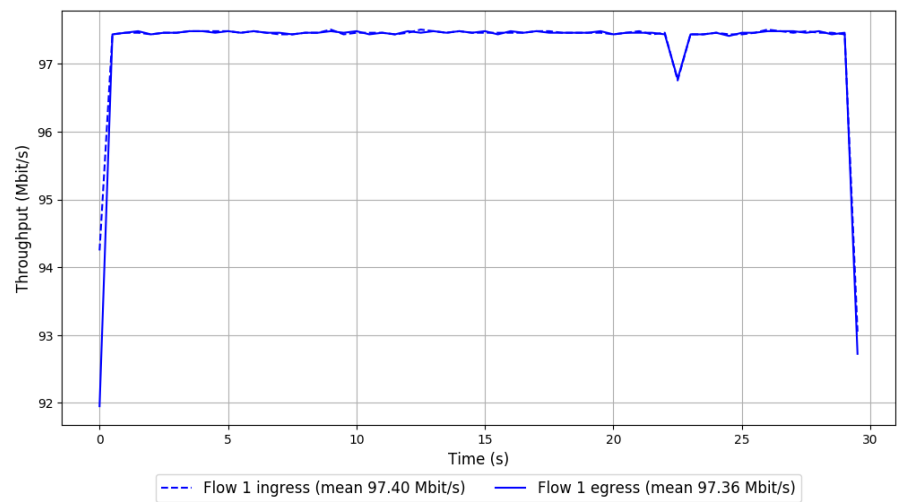


Run 2: Statistics of LEDBAT

Start at: 2018-04-17 01:57:10  
End at: 2018-04-17 01:57:40  
Local clock offset: -6.468 ms  
Remote clock offset: -6.871 ms

# Below is generated by plot.py at 2018-04-17 07:51:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.36 Mbit/s  
95th percentile per-packet one-way delay: 11.813 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 97.36 Mbit/s  
95th percentile per-packet one-way delay: 11.813 ms  
Loss rate: 0.04%

Run 2: Report of LEDBAT — Data Link

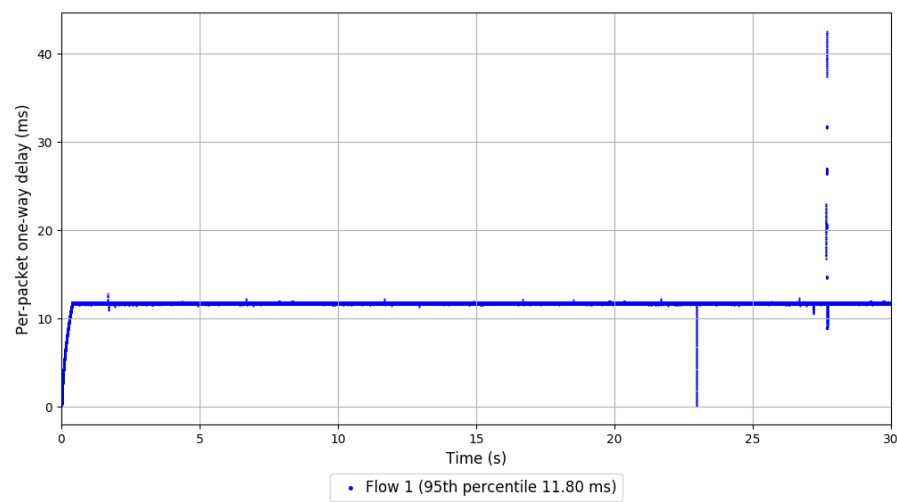
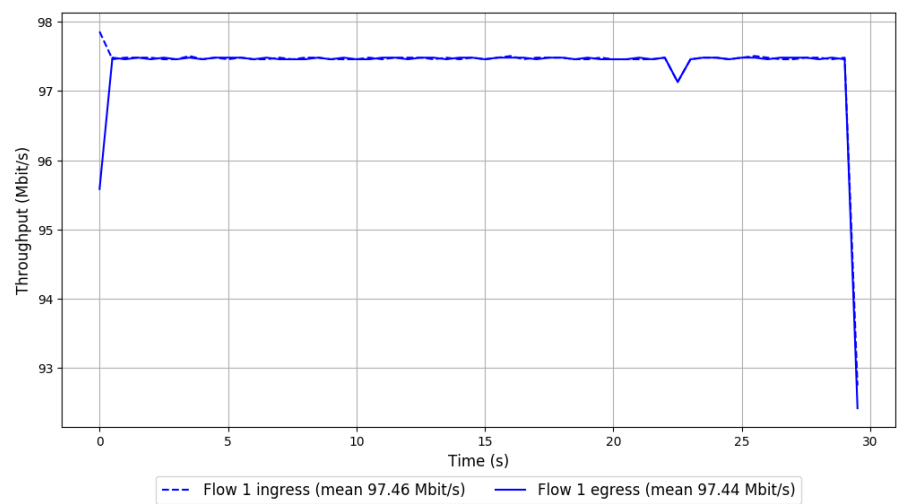


Run 3: Statistics of LEDBAT

Start at: 2018-04-17 02:16:11  
End at: 2018-04-17 02:16:41  
Local clock offset: -6.741 ms  
Remote clock offset: -6.782 ms

# Below is generated by plot.py at 2018-04-17 07:51:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 11.804 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 11.804 ms  
Loss rate: 0.04%

Run 3: Report of LEDBAT — Data Link

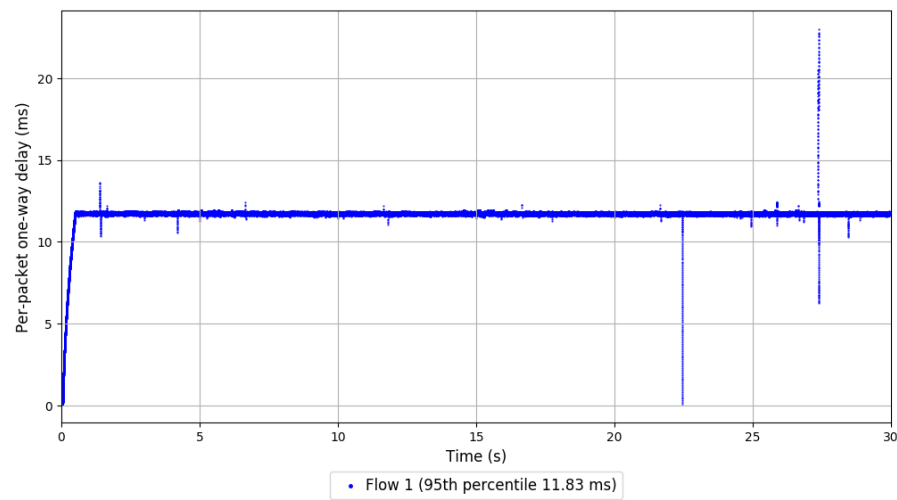
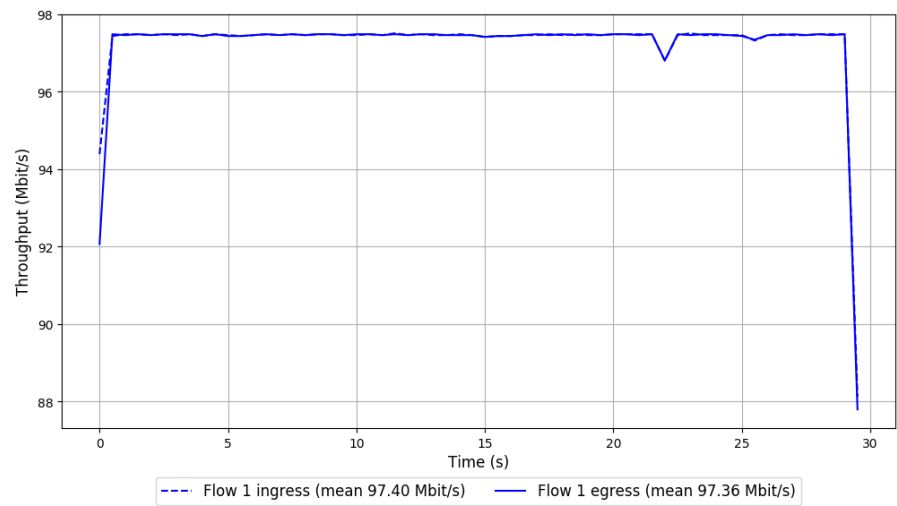


Run 4: Statistics of LEDBAT

Start at: 2018-04-17 02:35:13  
End at: 2018-04-17 02:35:43  
Local clock offset: -6.741 ms  
Remote clock offset: -6.333 ms

# Below is generated by plot.py at 2018-04-17 07:51:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.36 Mbit/s  
95th percentile per-packet one-way delay: 11.829 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.36 Mbit/s  
95th percentile per-packet one-way delay: 11.829 ms  
Loss rate: 0.05%

Run 4: Report of LEDBAT — Data Link



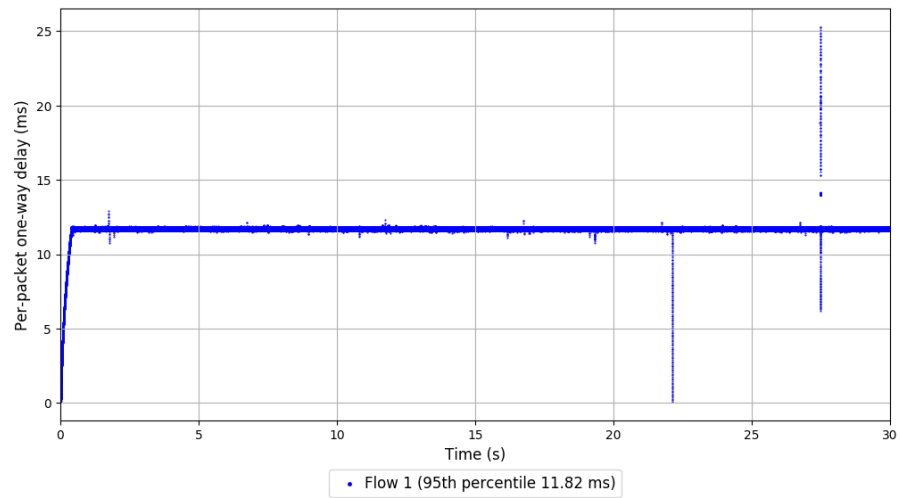
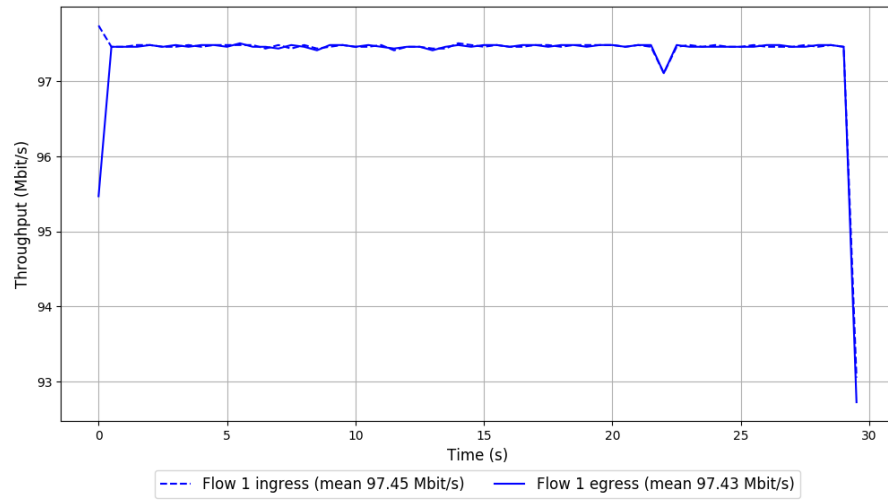
Run 5: Statistics of LEDBAT

Start at: 2018-04-17 02:54:15  
End at: 2018-04-17 02:54:45  
Local clock offset: -6.356 ms  
Remote clock offset: -6.401 ms

# Below is generated by plot.py at 2018-04-17 07:52:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 11.820 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 11.820 ms  
Loss rate: 0.04%



### Run 5: Report of LEDBAT — Data Link

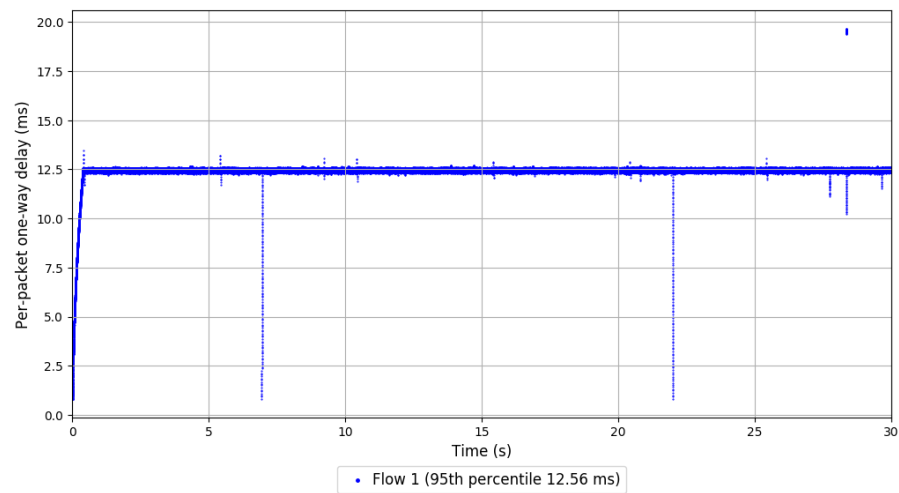
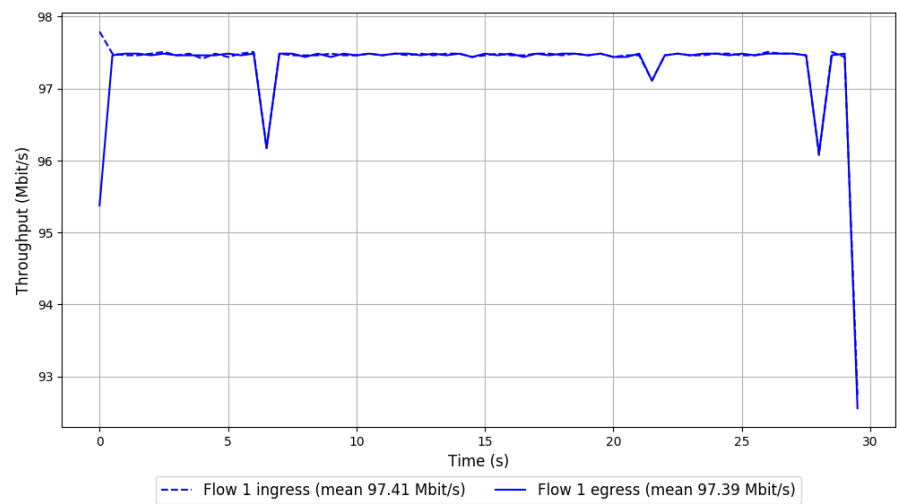


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 03:13:18  
End at: 2018-04-17 03:13:48  
Local clock offset: -5.702 ms  
Remote clock offset: -6.535 ms

# Below is generated by plot.py at 2018-04-17 07:52:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.39 Mbit/s  
95th percentile per-packet one-way delay: 12.558 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 97.39 Mbit/s  
95th percentile per-packet one-way delay: 12.558 ms  
Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-17 03:32:24

End at: 2018-04-17 03:32:54

Local clock offset: -6.472 ms

Remote clock offset: -6.93 ms

# Below is generated by plot.py at 2018-04-17 07:52:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 11.897 ms

Loss rate: 0.04%

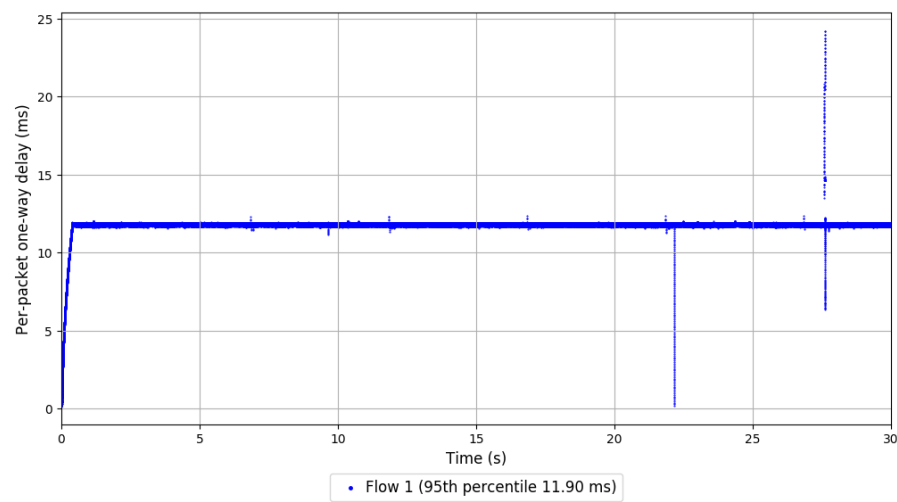
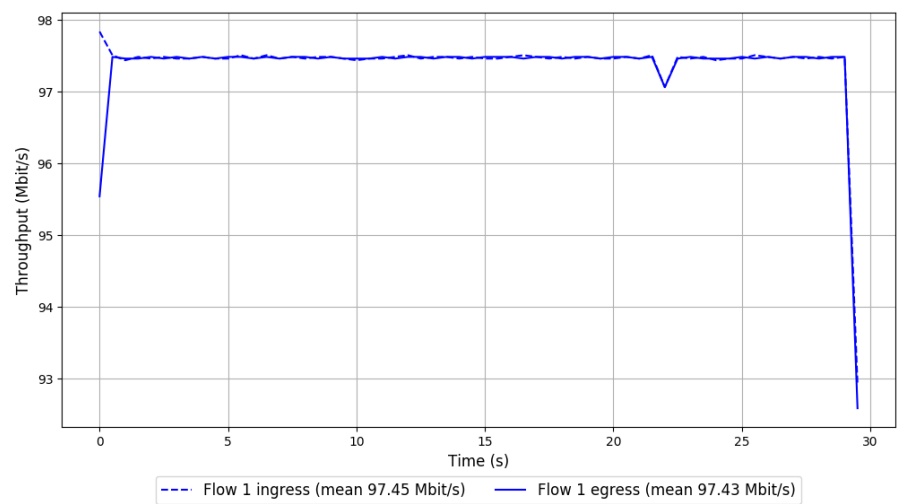
-- Flow 1:

Average throughput: 97.43 Mbit/s

95th percentile per-packet one-way delay: 11.897 ms

Loss rate: 0.04%

Run 7: Report of LEDBAT — Data Link

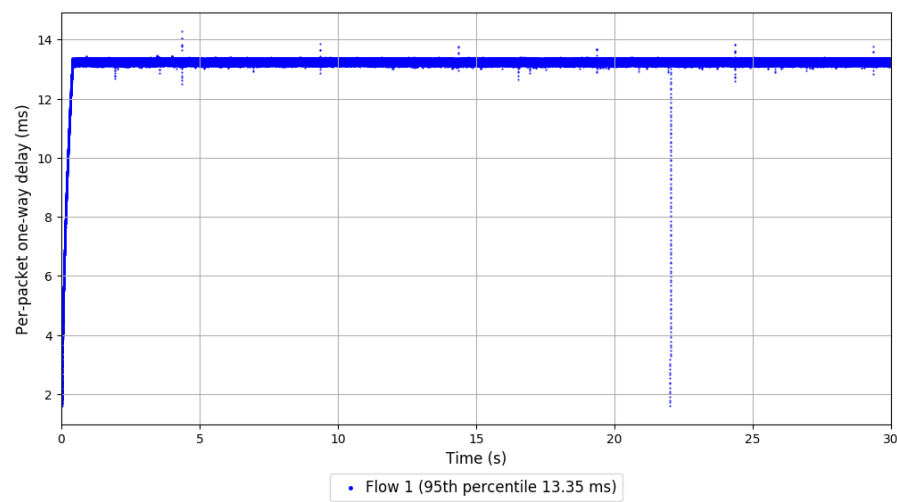
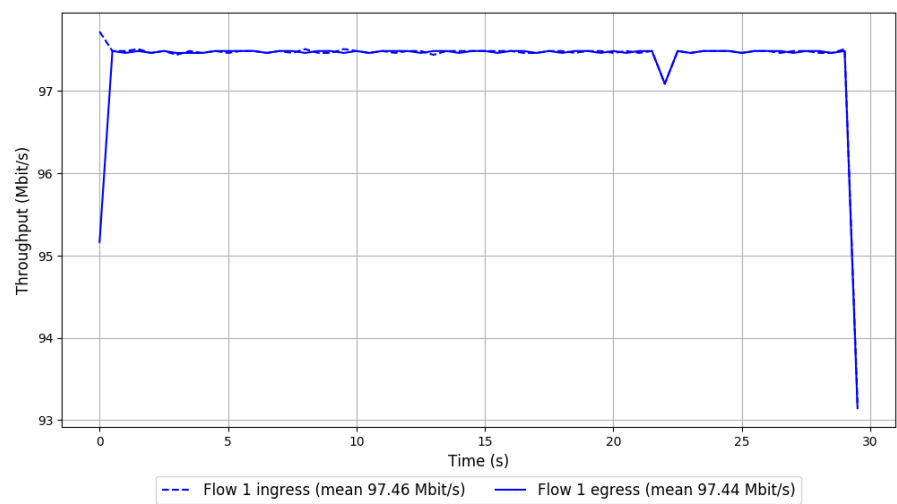


Run 8: Statistics of LEDBAT

Start at: 2018-04-17 03:51:28  
End at: 2018-04-17 03:51:58  
Local clock offset: -5.008 ms  
Remote clock offset: -7.095 ms

# Below is generated by plot.py at 2018-04-17 07:52:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 13.353 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 13.353 ms  
Loss rate: 0.05%

Run 8: Report of LEDBAT — Data Link



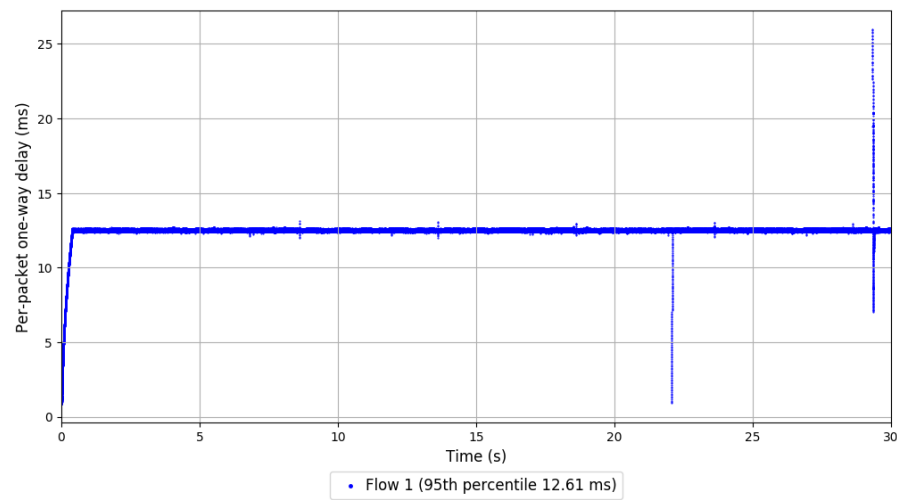
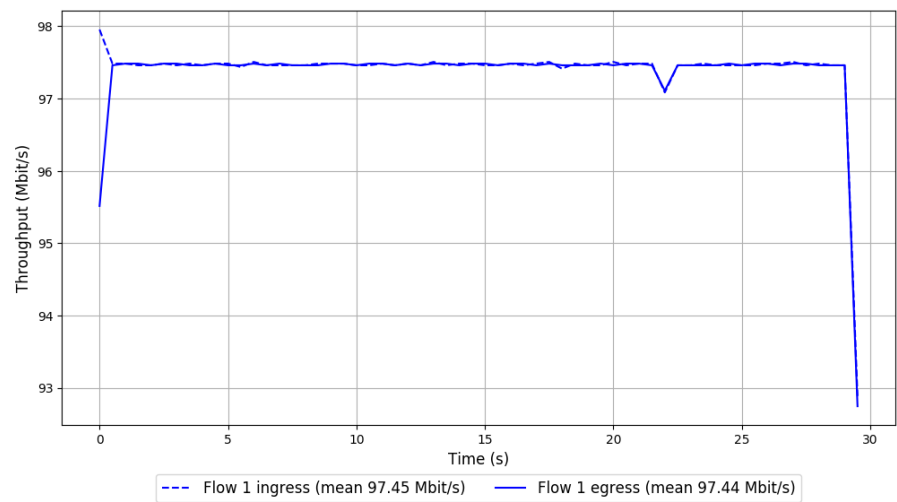
Run 9: Statistics of LEDBAT

Start at: 2018-04-17 04:10:31  
End at: 2018-04-17 04:11:01  
Local clock offset: -5.76 ms  
Remote clock offset: -7.057 ms

# Below is generated by plot.py at 2018-04-17 07:52:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 12.609 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 97.44 Mbit/s  
95th percentile per-packet one-way delay: 12.609 ms  
Loss rate: 0.04%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-17 04:29:34

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

Local clock offset: -5.855 ms

Remote clock offset: -7.04 ms

# Below is generated by plot.py at 2018-04-17 07:52:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 12.588 ms

Loss rate: 0.04%

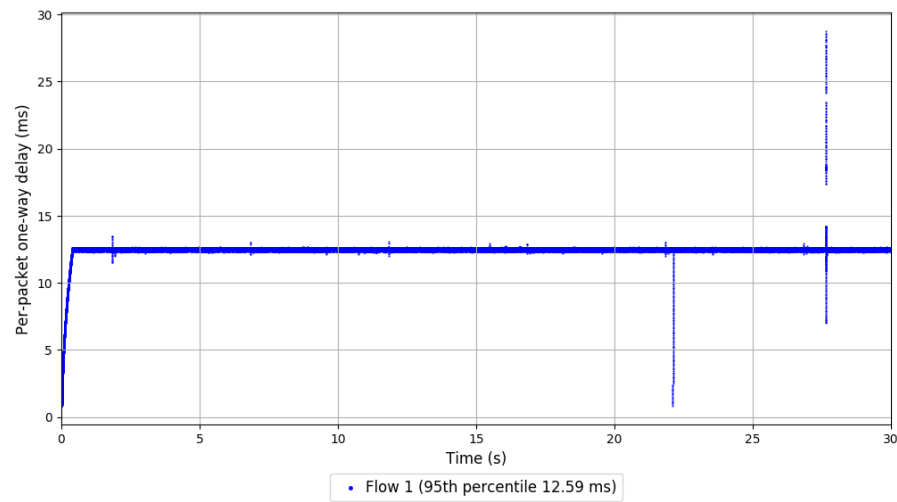
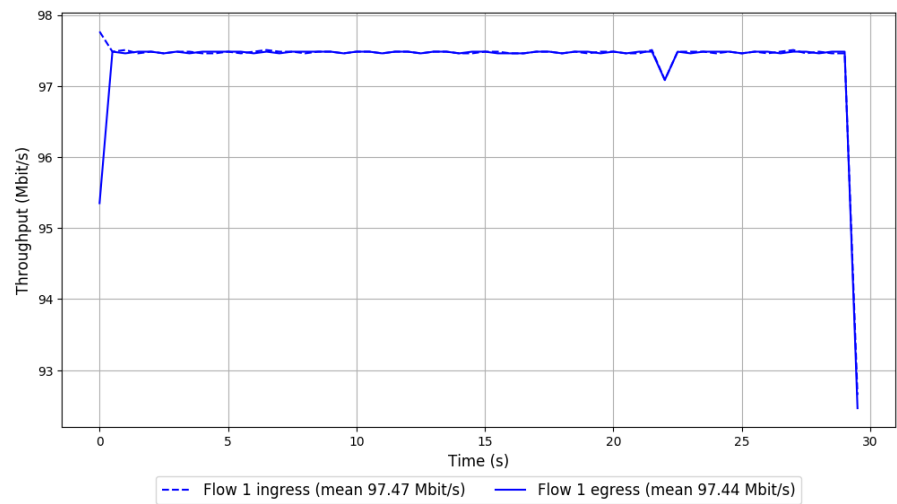
-- Flow 1:

Average throughput: 97.44 Mbit/s

95th percentile per-packet one-way delay: 12.588 ms

Loss rate: 0.04%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 01:39:23

End at: 2018-04-17 01:39:53

Local clock offset: -5.643 ms

Remote clock offset: -6.497 ms

# Below is generated by plot.py at 2018-04-17 07:52:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.45 Mbit/s

95th percentile per-packet one-way delay: 2.564 ms

Loss rate: 0.01%

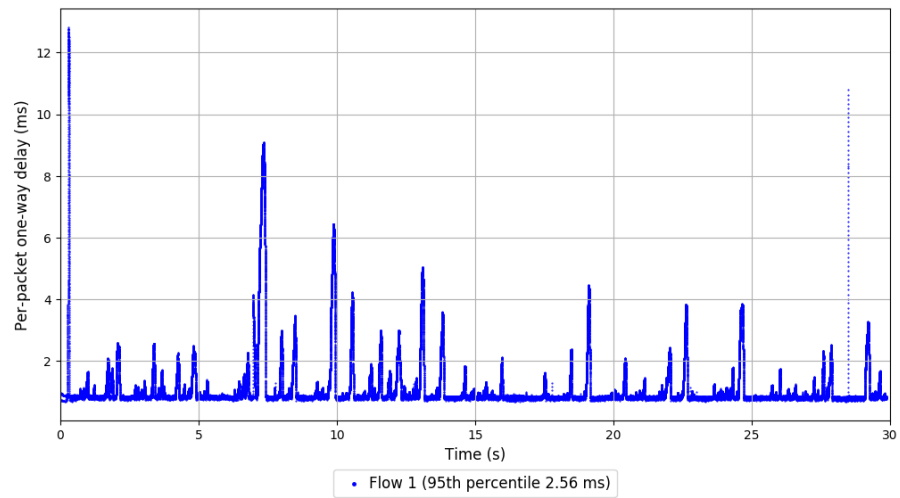
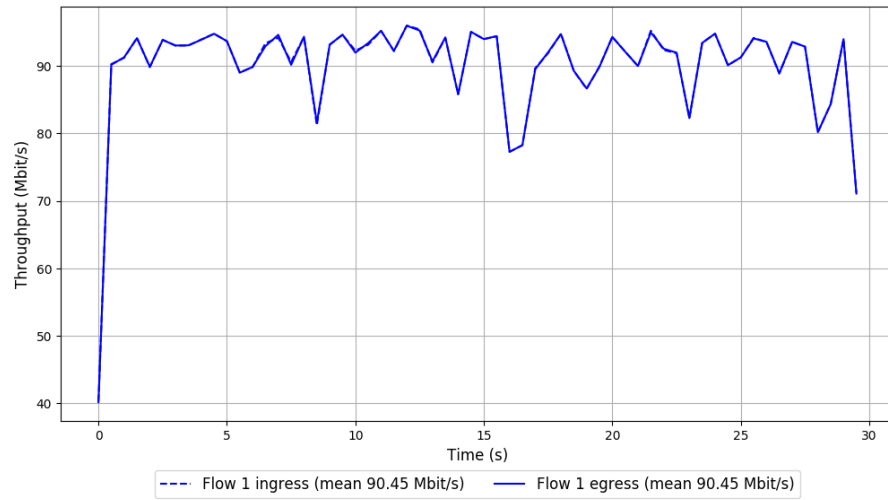
-- Flow 1:

Average throughput: 90.45 Mbit/s

95th percentile per-packet one-way delay: 2.564 ms

Loss rate: 0.01%

### Run 1: Report of PCC-Allegro — Data Link

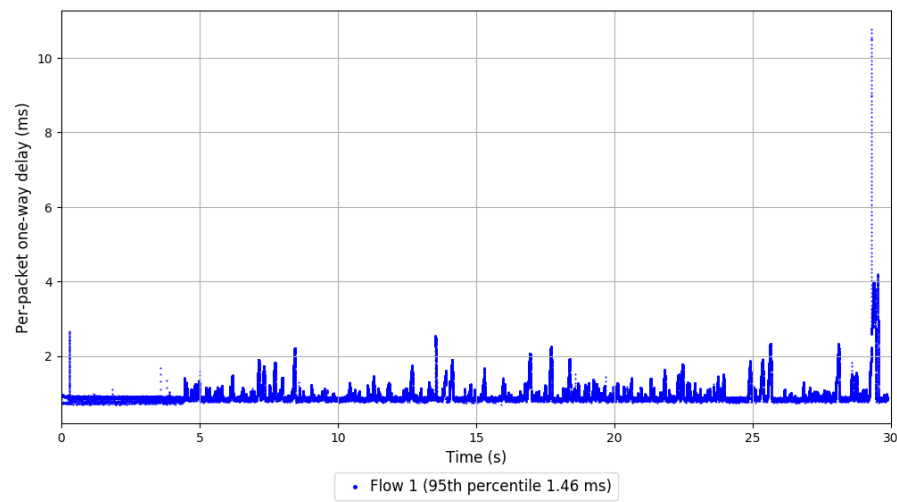
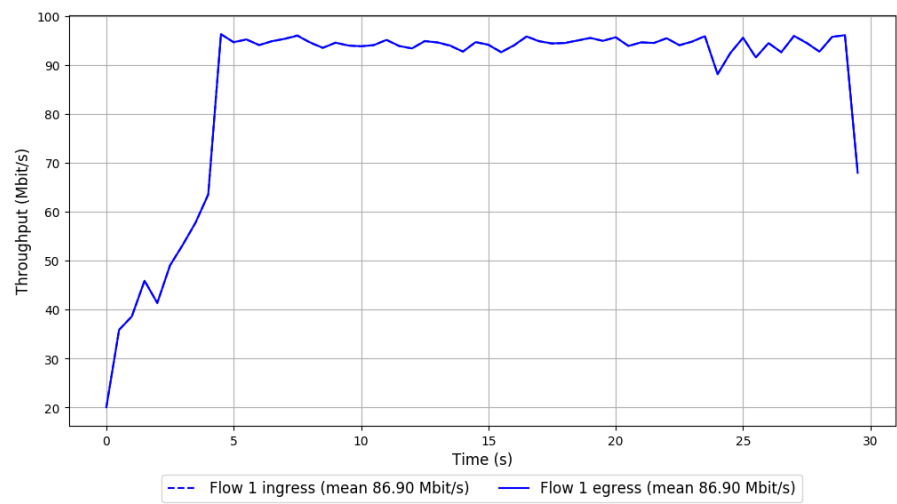


Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 01:58:19  
End at: 2018-04-17 01:58:49  
Local clock offset: -5.677 ms  
Remote clock offset: -6.889 ms

# Below is generated by plot.py at 2018-04-17 07:52:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.90 Mbit/s  
95th percentile per-packet one-way delay: 1.457 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 86.90 Mbit/s  
95th percentile per-packet one-way delay: 1.457 ms  
Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

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

End at: 2018-04-17 02:17:50

Local clock offset: -6.009 ms

Remote clock offset: -6.721 ms

# Below is generated by plot.py at 2018-04-17 07:53:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 1.678 ms

Loss rate: 0.00%

-- Flow 1:

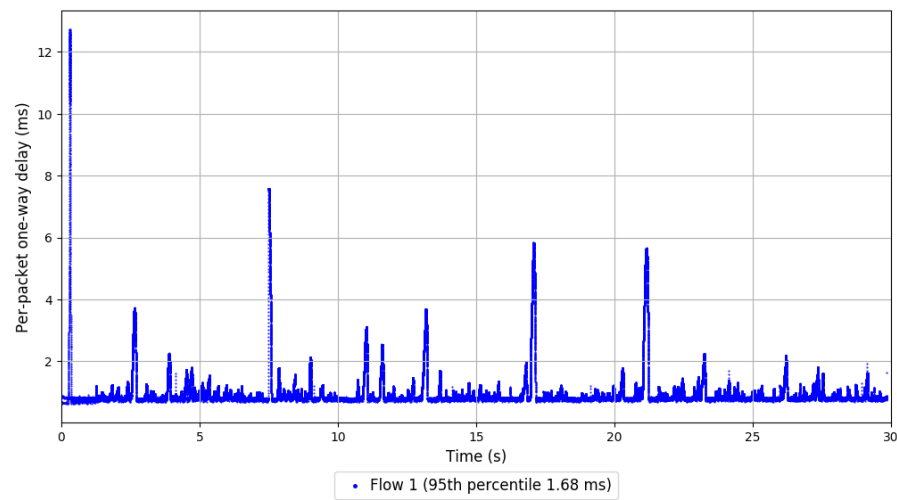
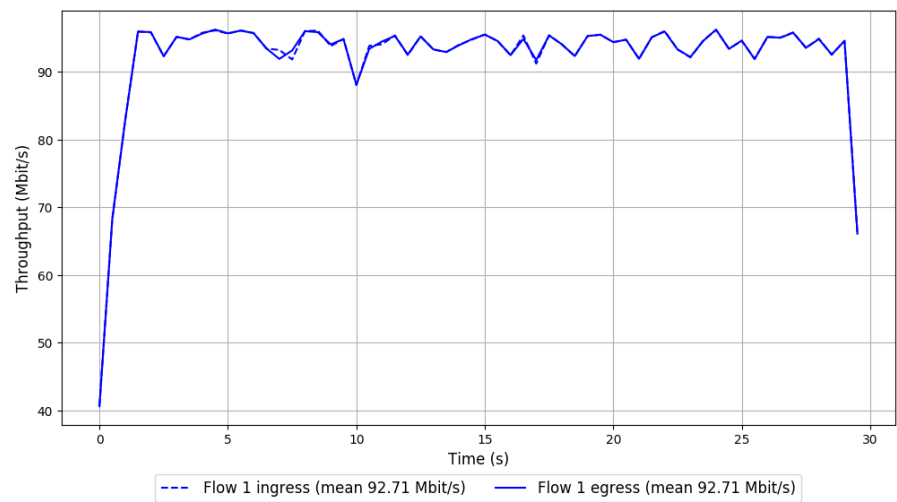
Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 1.678 ms

Loss rate: 0.00%



Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 02:36:22

End at: 2018-04-17 02:36:52

Local clock offset: -6.007 ms

Remote clock offset: -6.317 ms

# Below is generated by plot.py at 2018-04-17 07:53:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.57 Mbit/s

95th percentile per-packet one-way delay: 1.620 ms

Loss rate: 0.01%

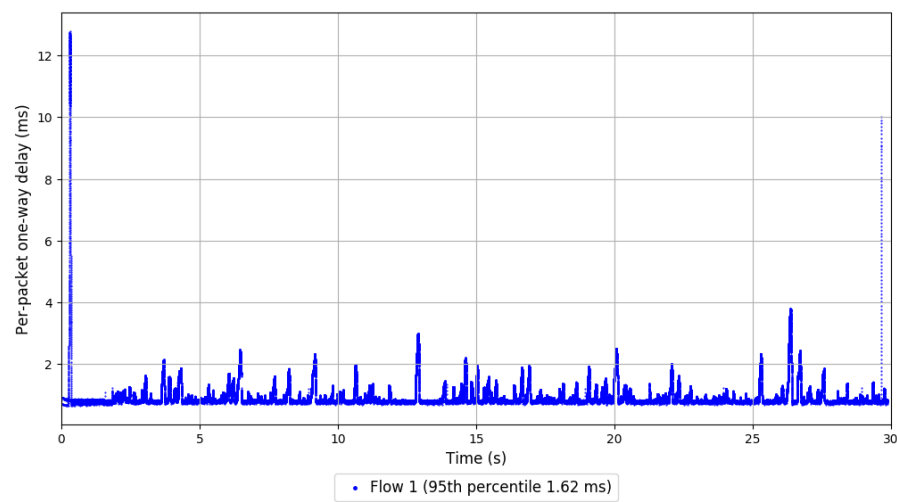
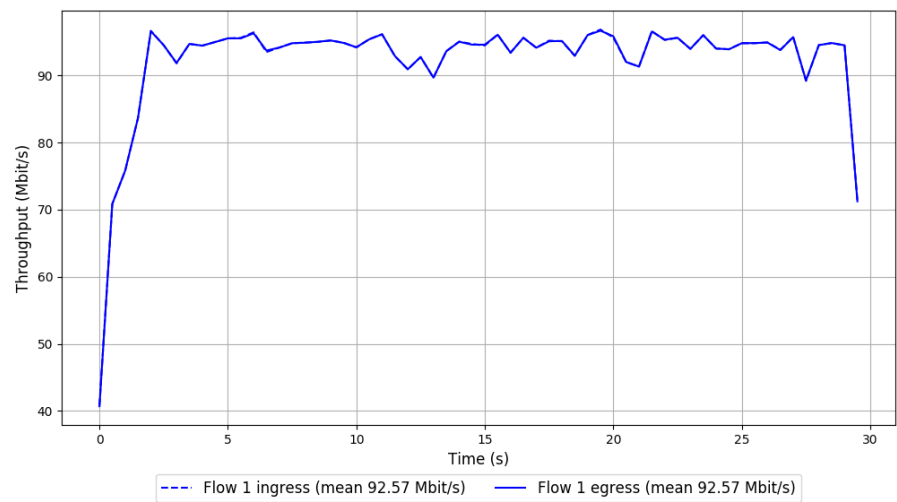
-- Flow 1:

Average throughput: 92.57 Mbit/s

95th percentile per-packet one-way delay: 1.620 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 02:55:24

End at: 2018-04-17 02:55:54

Local clock offset: -4.845 ms

Remote clock offset: -6.489 ms

# Below is generated by plot.py at 2018-04-17 07:54:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 2.290 ms

Loss rate: 0.01%

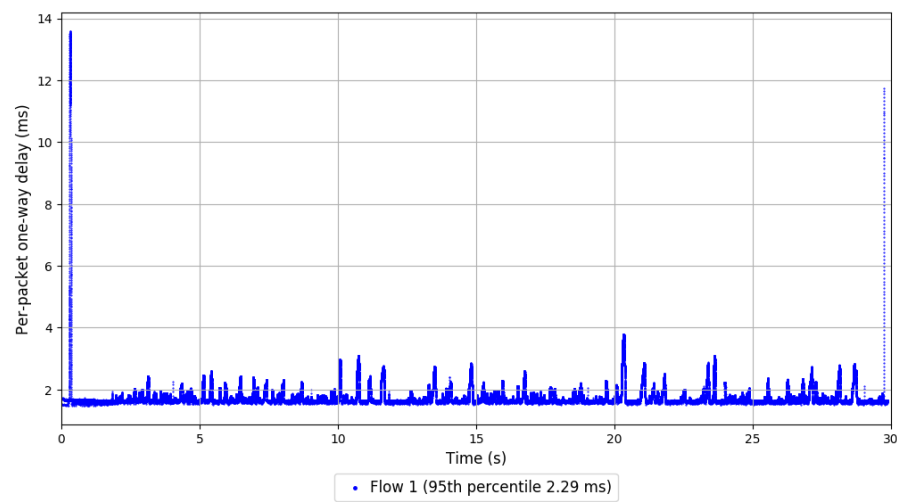
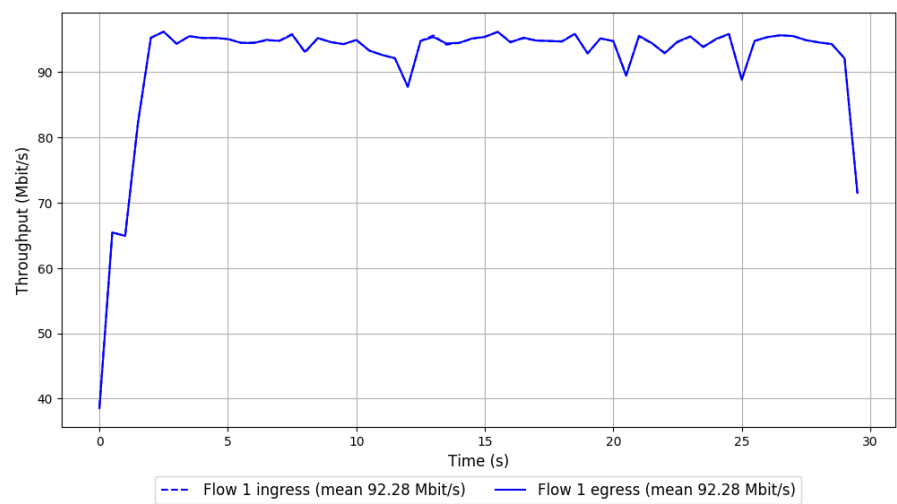
-- Flow 1:

Average throughput: 92.28 Mbit/s

95th percentile per-packet one-way delay: 2.290 ms

Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 03:14:28

End at: 2018-04-17 03:14:58

Local clock offset: -5.672 ms

Remote clock offset: -6.506 ms

# Below is generated by plot.py at 2018-04-17 07:54:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 1.528 ms

Loss rate: 0.01%

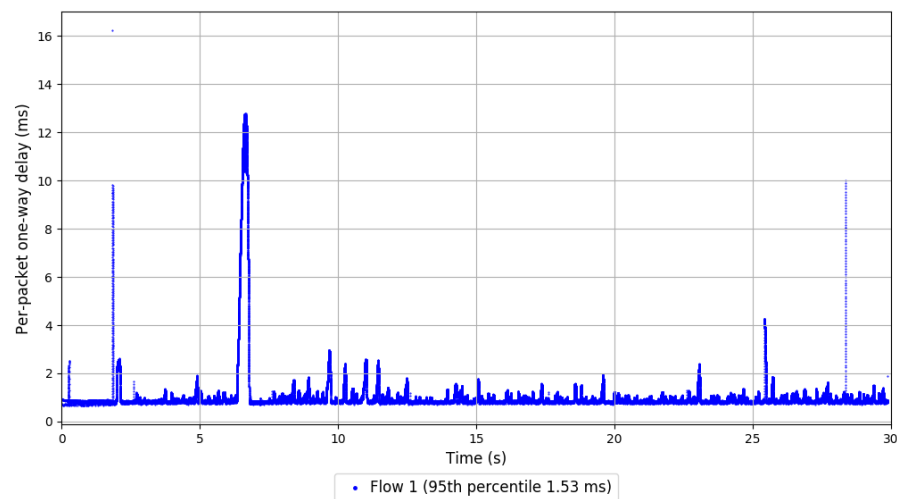
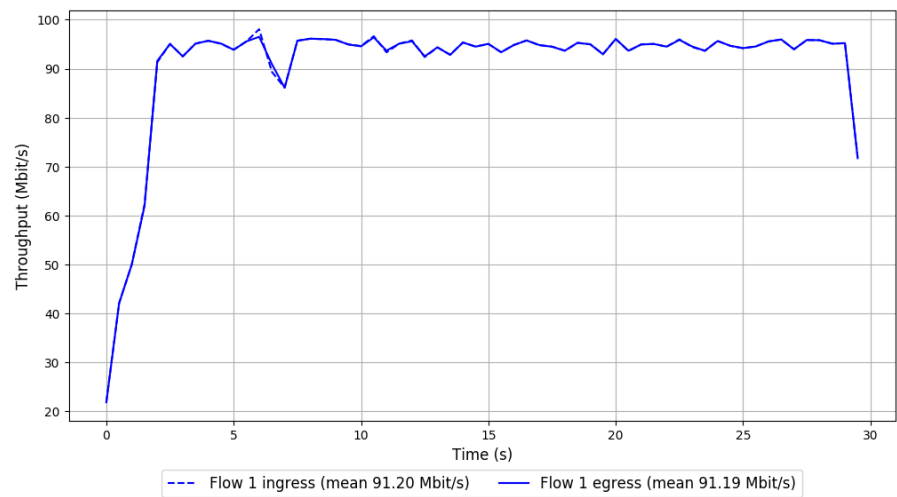
-- Flow 1:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 1.528 ms

Loss rate: 0.01%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 03:33:33

End at: 2018-04-17 03:34:03

Local clock offset: -5.797 ms

Remote clock offset: -6.88 ms

# Below is generated by plot.py at 2018-04-17 07:54:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 1.799 ms

Loss rate: 0.00%

-- Flow 1:

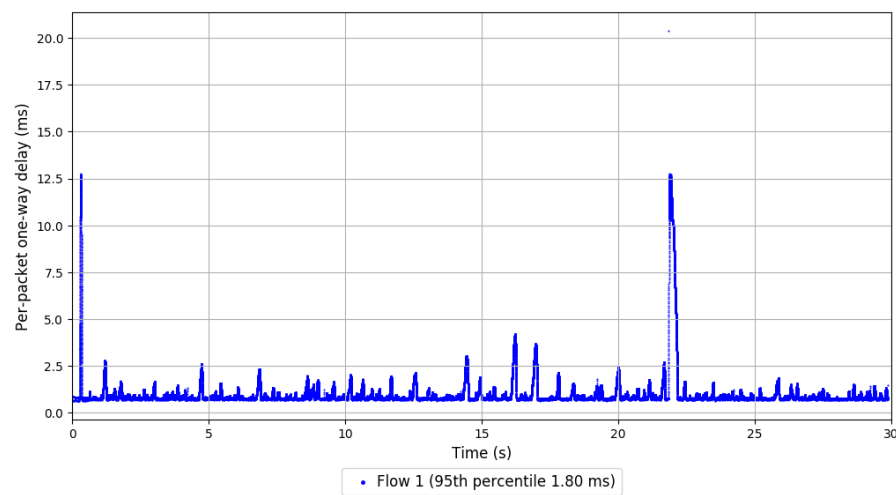
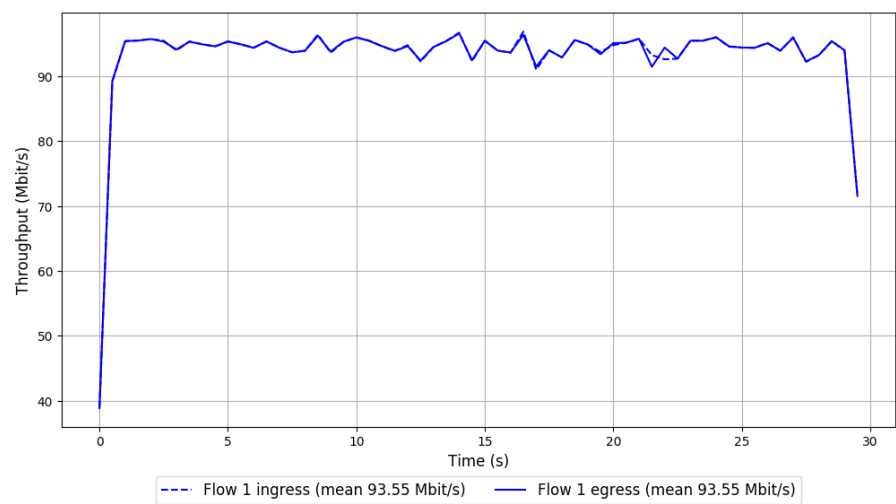
Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 1.799 ms

Loss rate: 0.00%



Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 03:52:38

End at: 2018-04-17 03:53:08

Local clock offset: -5.755 ms

Remote clock offset: -7.11 ms

# Below is generated by plot.py at 2018-04-17 07:54:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 4.605 ms

Loss rate: 0.01%

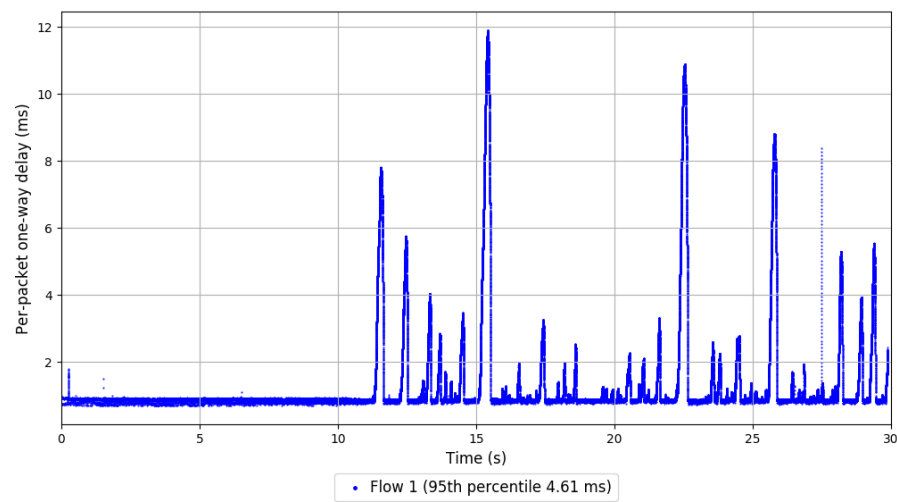
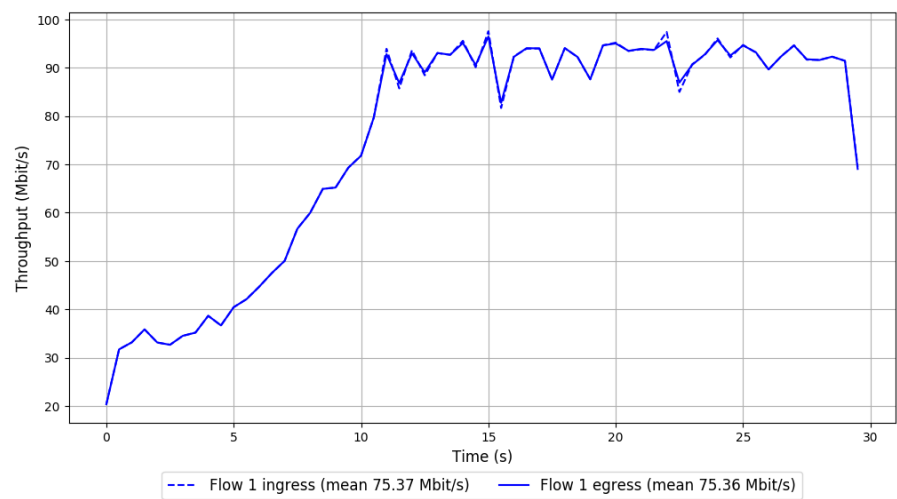
-- Flow 1:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 4.605 ms

Loss rate: 0.01%

Run 8: Report of PCC-Allegro — Data Link

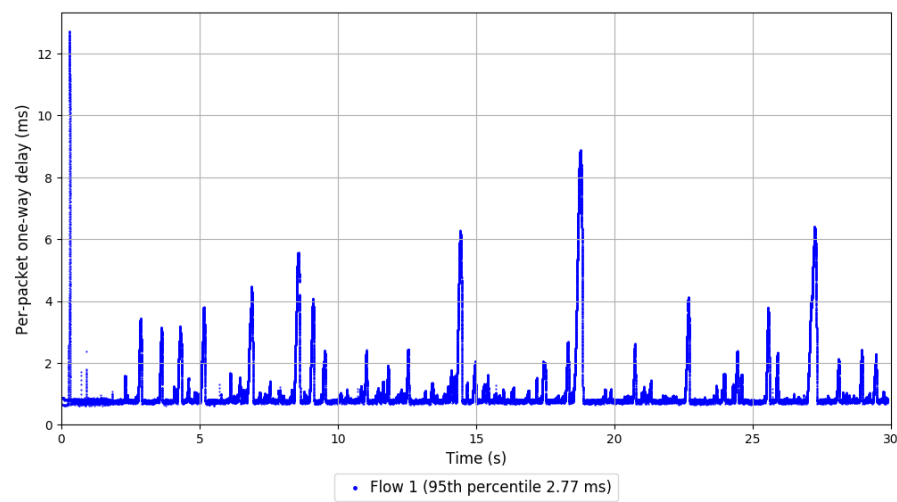
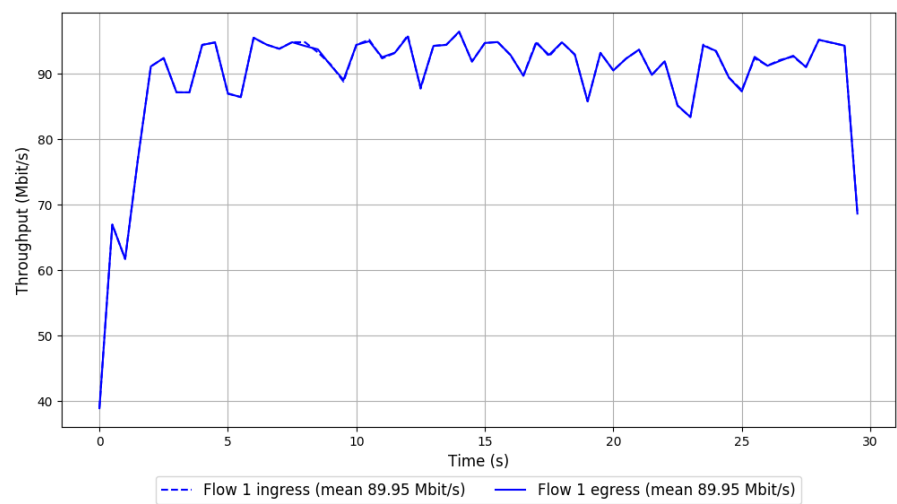


Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 04:11:40  
End at: 2018-04-17 04:12:10  
Local clock offset: -5.865 ms  
Remote clock offset: -7.045 ms

# Below is generated by plot.py at 2018-04-17 07:54:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.95 Mbit/s  
95th percentile per-packet one-way delay: 2.770 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 89.95 Mbit/s  
95th percentile per-packet one-way delay: 2.770 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 04:30:44

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

Local clock offset: -5.071 ms

Remote clock offset: -7.022 ms

# Below is generated by plot.py at 2018-04-17 07:54:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.81 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.00%

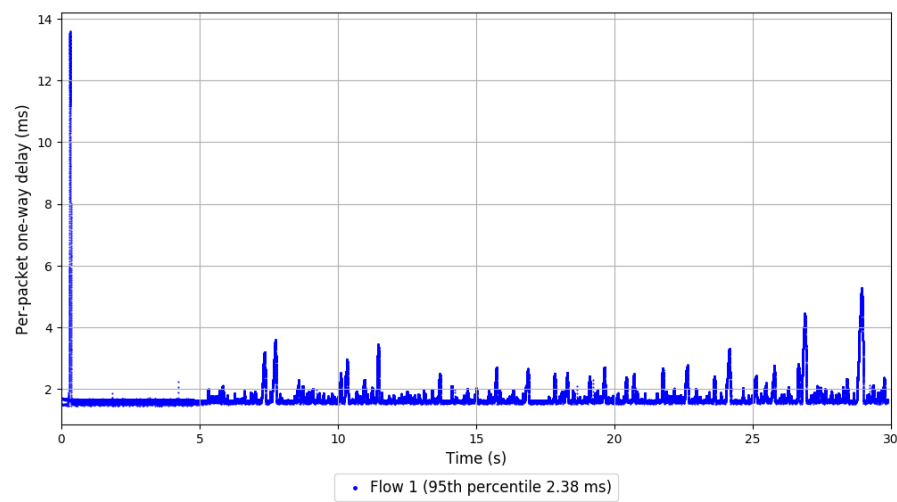
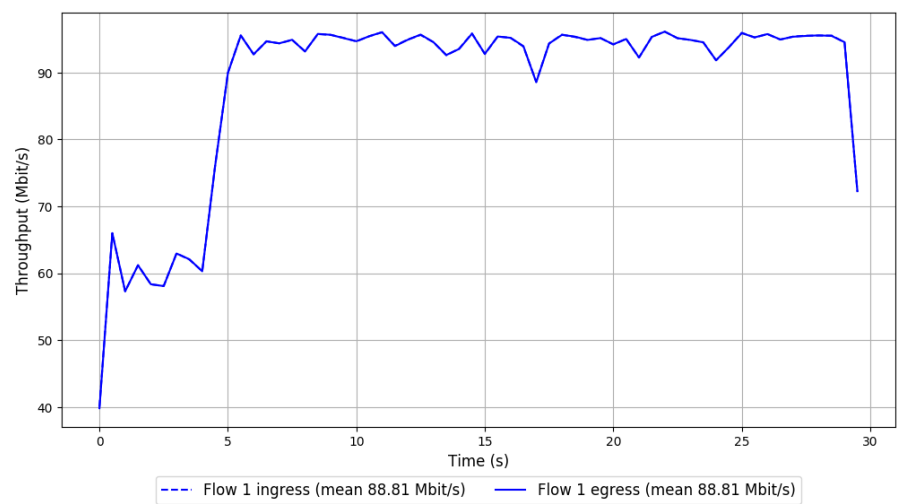
-- Flow 1:

Average throughput: 88.81 Mbit/s

95th percentile per-packet one-way delay: 2.381 ms

Loss rate: 0.00%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 01:33:43

End at: 2018-04-17 01:34:14

Local clock offset: -5.672 ms

Remote clock offset: -6.541 ms

# Below is generated by plot.py at 2018-04-17 07:55:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 12.086 ms

Loss rate: 0.05%

-- Flow 1:

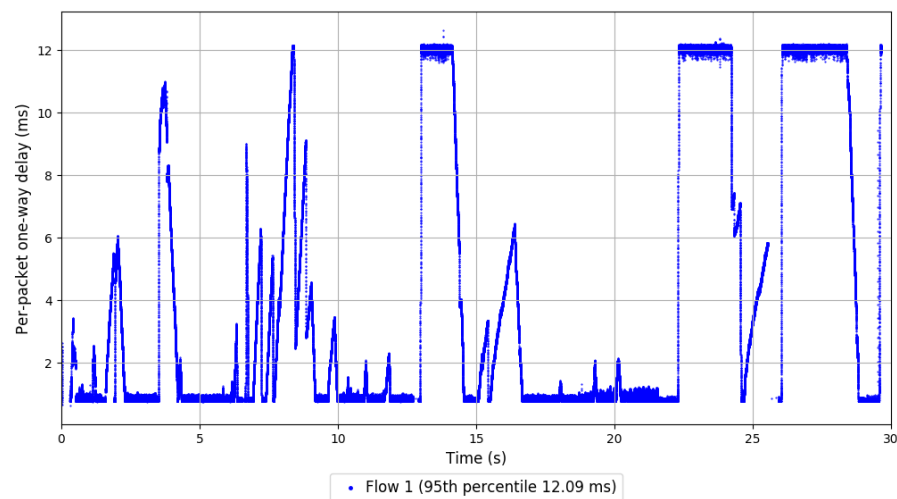
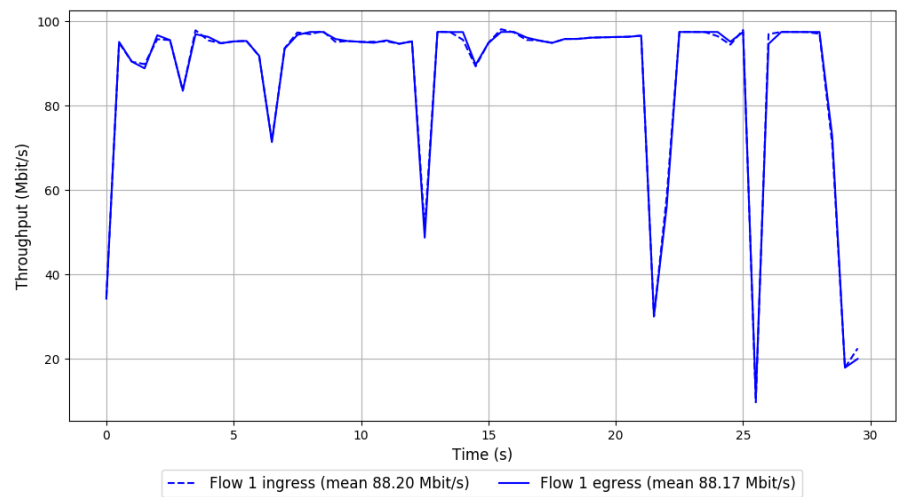
Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 12.086 ms

Loss rate: 0.05%



Run 1: Report of QUIC Cubic — Data Link

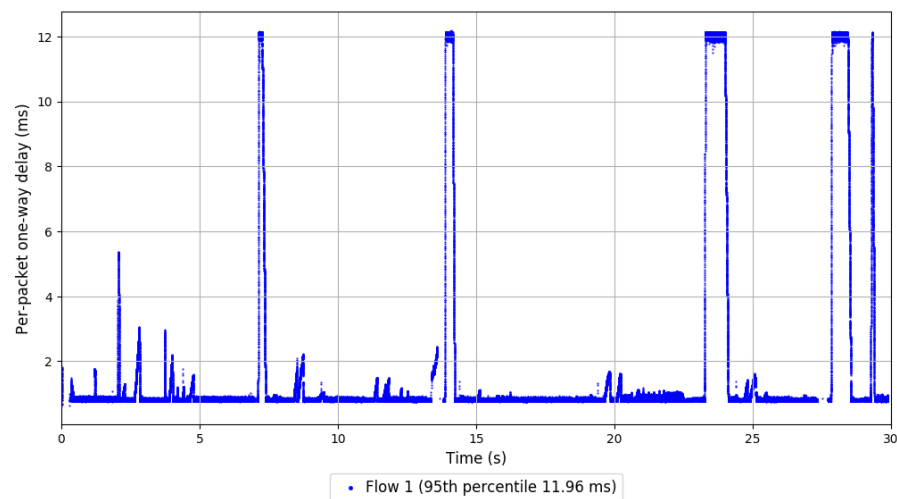
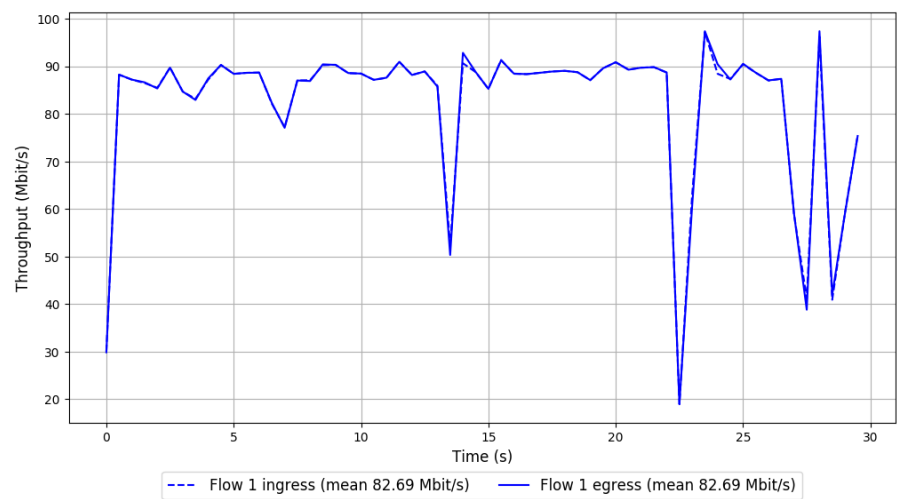


Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 01:52:40  
End at: 2018-04-17 01:53:10  
Local clock offset: -5.737 ms  
Remote clock offset: -6.847 ms

# Below is generated by plot.py at 2018-04-17 07:55:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.69 Mbit/s  
95th percentile per-packet one-way delay: 11.964 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 82.69 Mbit/s  
95th percentile per-packet one-way delay: 11.964 ms  
Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link

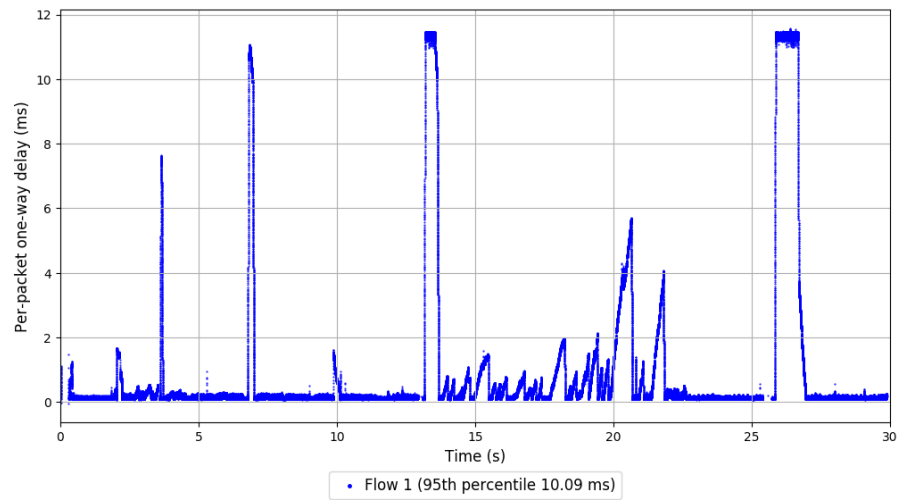
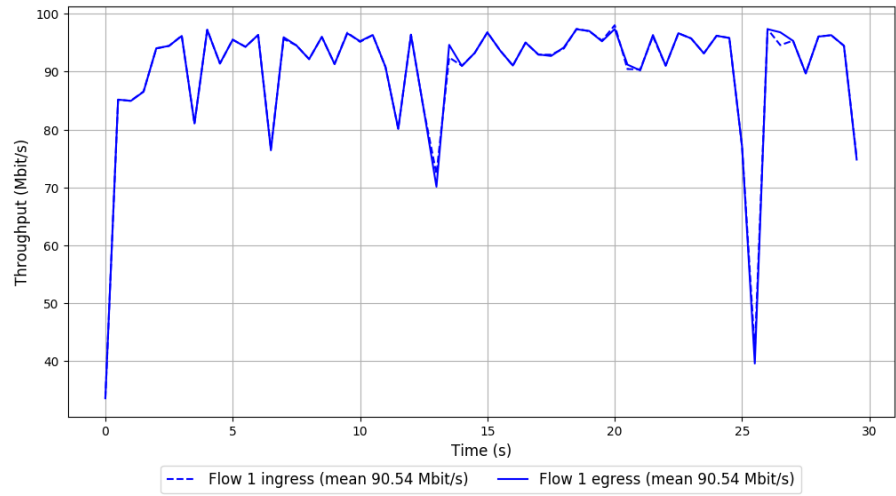


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 02:11:41  
End at: 2018-04-17 02:12:11  
Local clock offset: -6.72 ms  
Remote clock offset: -6.985 ms

# Below is generated by plot.py at 2018-04-17 07:55:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.54 Mbit/s  
95th percentile per-packet one-way delay: 10.089 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.54 Mbit/s  
95th percentile per-packet one-way delay: 10.089 ms  
Loss rate: 0.01%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 02:30:44

End at: 2018-04-17 02:31:14

Local clock offset: -6.113 ms

Remote clock offset: -6.374 ms

# Below is generated by plot.py at 2018-04-17 07:55:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.41 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.00%

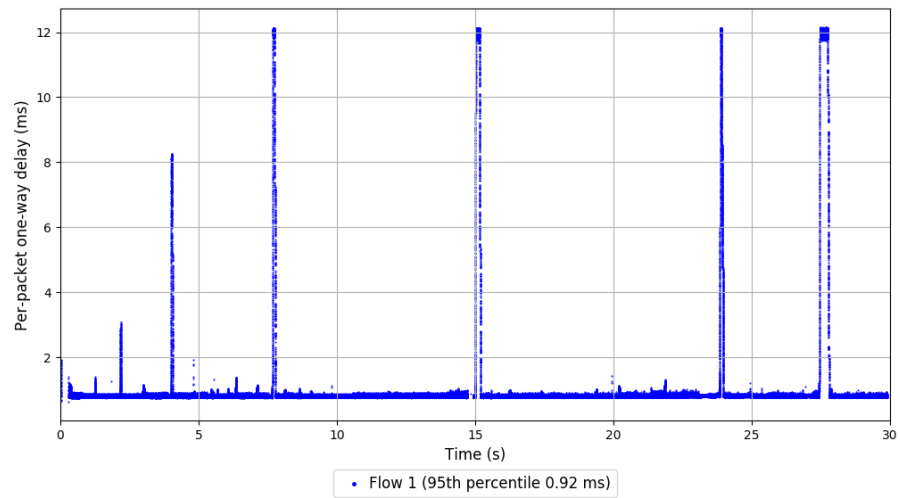
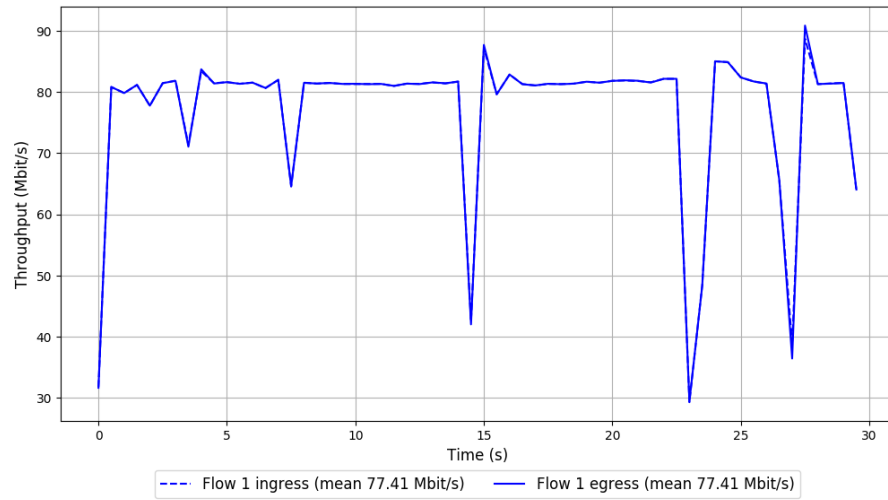
-- Flow 1:

Average throughput: 77.41 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.00%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 02:49:45

End at: 2018-04-17 02:50:15

Local clock offset: -5.703 ms

Remote clock offset: -6.197 ms

# Below is generated by plot.py at 2018-04-17 07:55:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 11.891 ms

Loss rate: 0.05%

-- Flow 1:

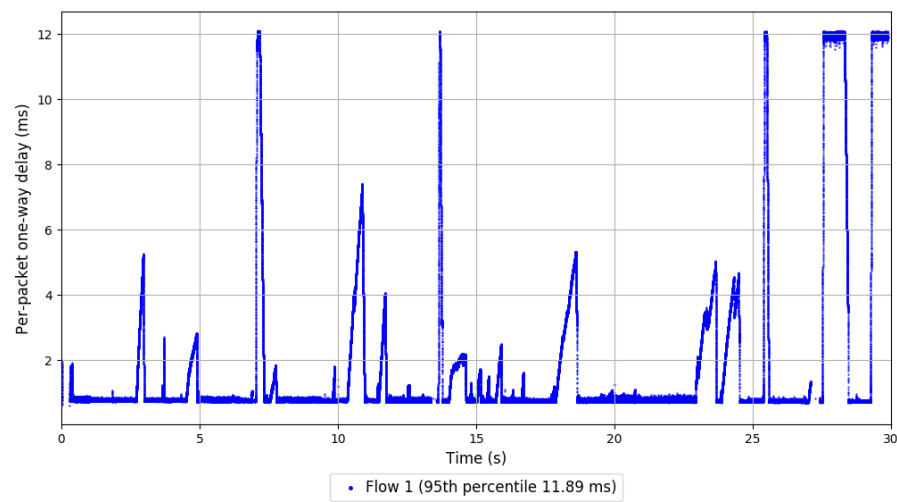
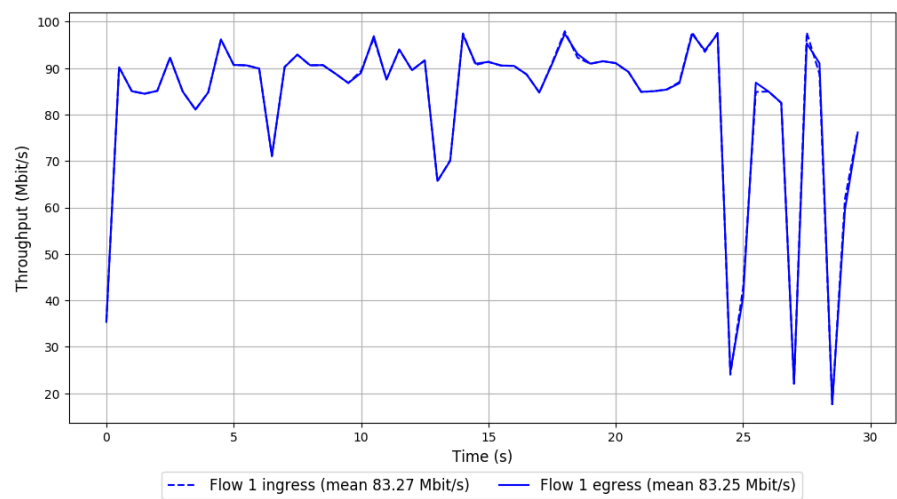
Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 11.891 ms

Loss rate: 0.05%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 03:08:48

End at: 2018-04-17 03:09:18

Local clock offset: -6.4 ms

Remote clock offset: -6.623 ms

# Below is generated by plot.py at 2018-04-17 07:55:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 11.387 ms

Loss rate: 0.00%

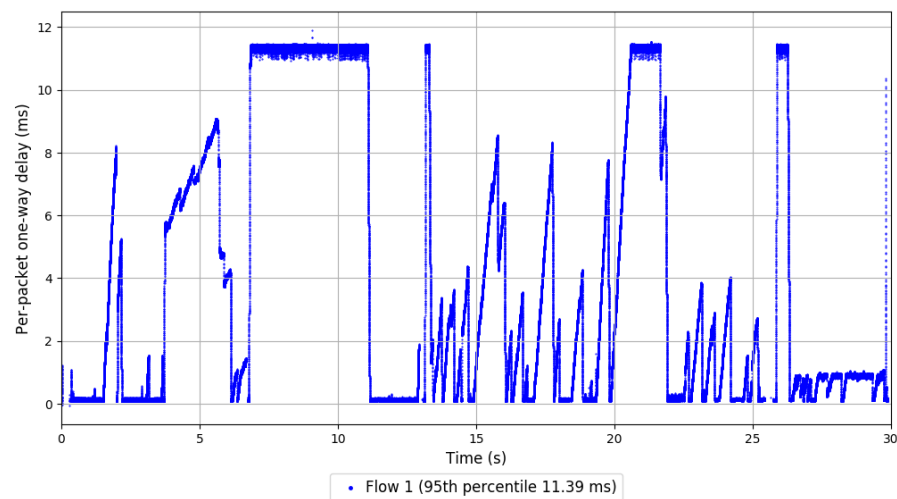
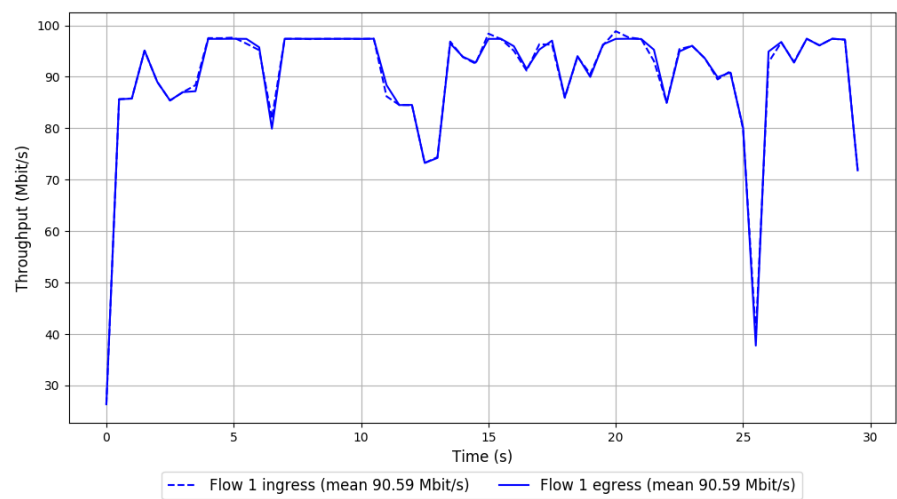
-- Flow 1:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 11.387 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 03:27:54

End at: 2018-04-17 03:28:24

Local clock offset: -5.71 ms

Remote clock offset: -6.742 ms

# Below is generated by plot.py at 2018-04-17 07:55:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 12.170 ms

Loss rate: 0.05%

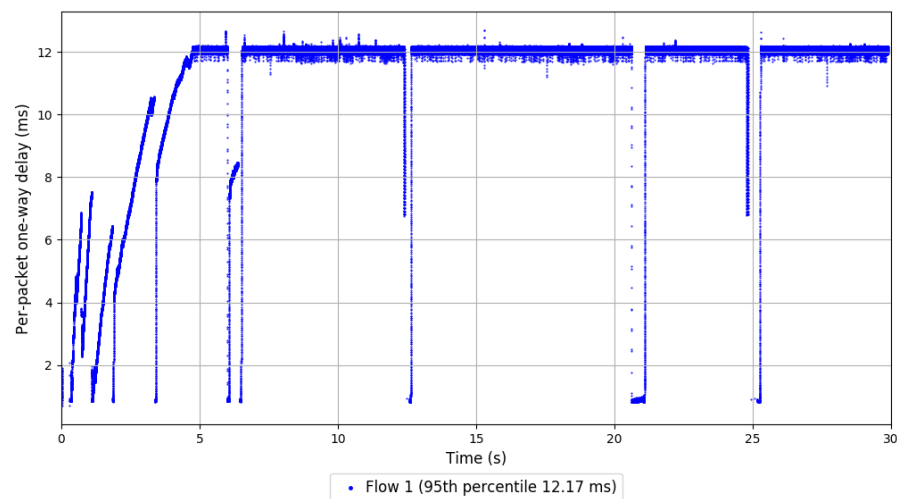
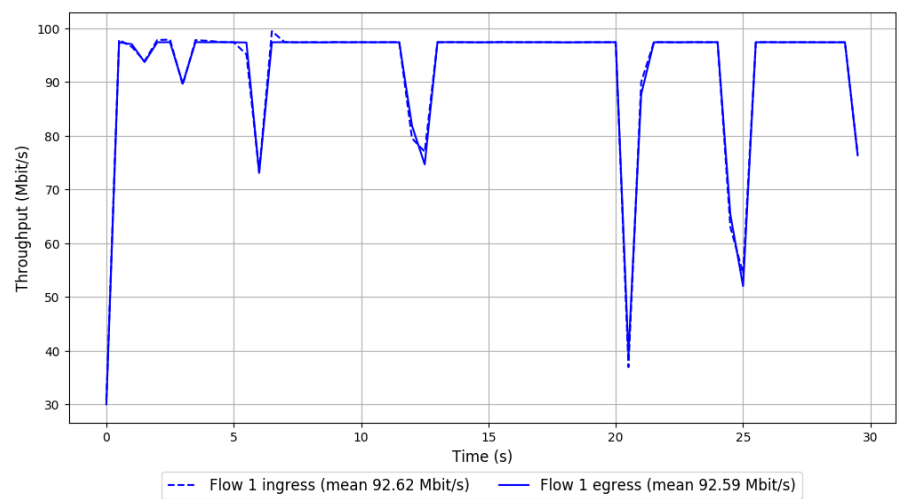
-- Flow 1:

Average throughput: 92.59 Mbit/s

95th percentile per-packet one-way delay: 12.170 ms

Loss rate: 0.05%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 03:46:59

End at: 2018-04-17 03:47:29

Local clock offset: -6.548 ms

Remote clock offset: -7.062 ms

# Below is generated by plot.py at 2018-04-17 07:55:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 0.145 ms

Loss rate: 0.01%

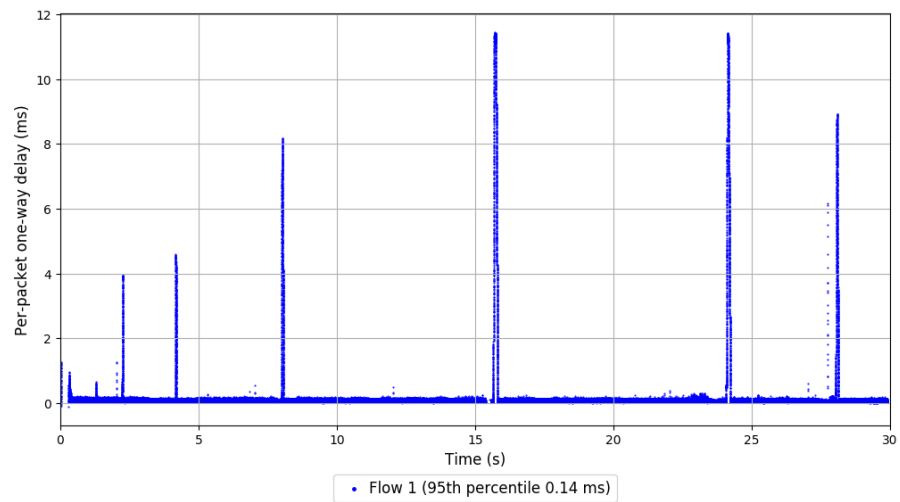
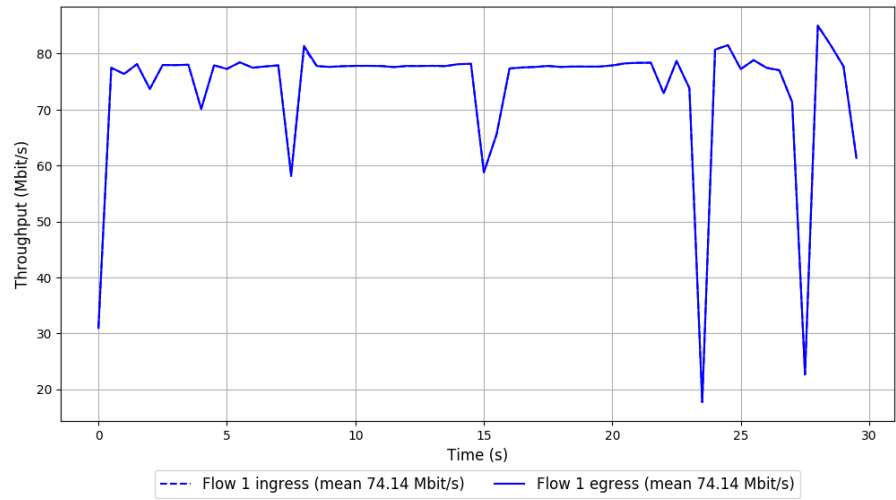
-- Flow 1:

Average throughput: 74.14 Mbit/s

95th percentile per-packet one-way delay: 0.145 ms

Loss rate: 0.01%

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



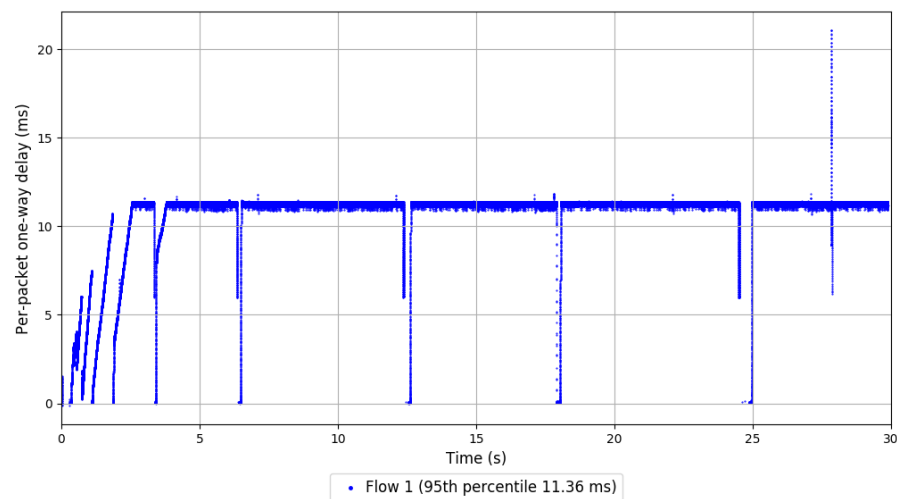
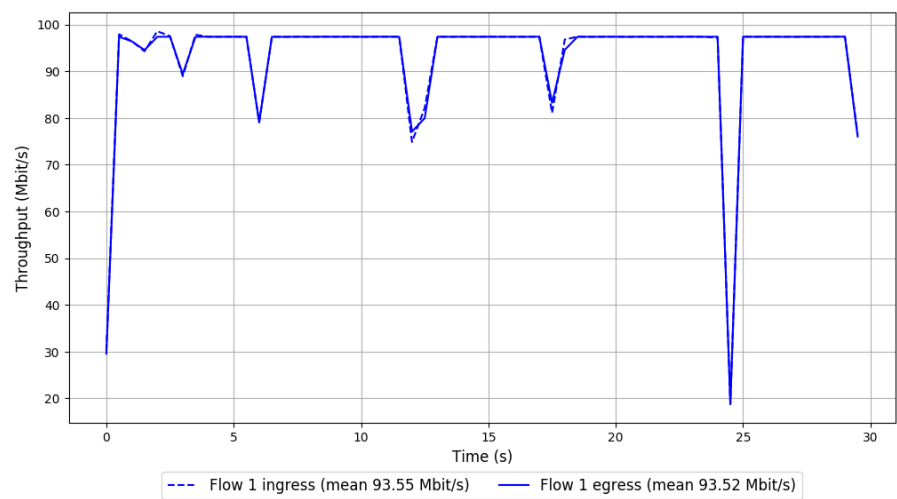
Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 04:06:01  
End at: 2018-04-17 04:06:31  
Local clock offset: -6.603 ms  
Remote clock offset: -7.073 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.52 Mbit/s  
95th percentile per-packet one-way delay: 11.359 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 93.52 Mbit/s  
95th percentile per-packet one-way delay: 11.359 ms  
Loss rate: 0.05%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 04:25:05

End at: 2018-04-17 04:25:35

Local clock offset: -5.812 ms

Remote clock offset: -7.086 ms

# Below is generated by plot.py at 2018-04-17 07:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.80 Mbit/s

95th percentile per-packet one-way delay: 12.198 ms

Loss rate: 0.05%

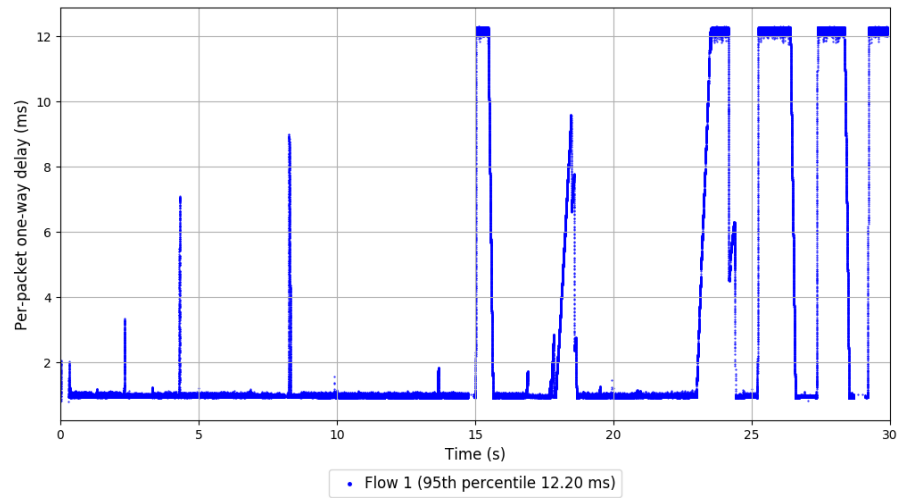
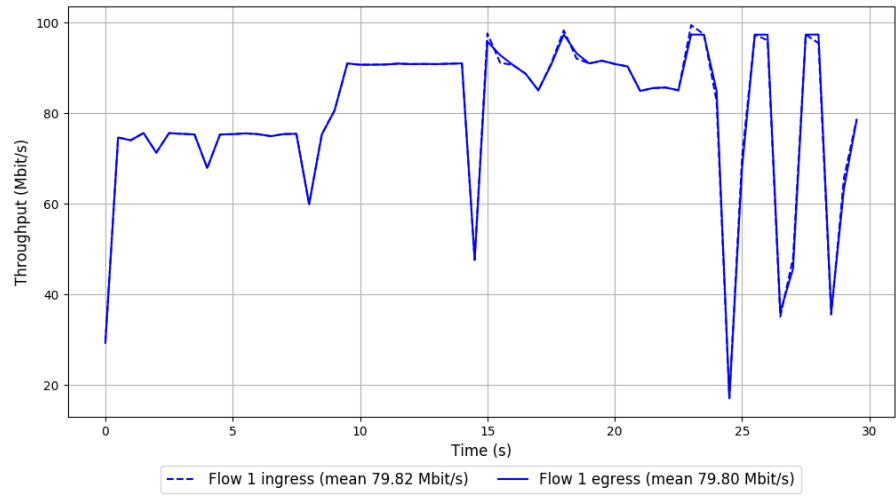
-- Flow 1:

Average throughput: 79.80 Mbit/s

95th percentile per-packet one-way delay: 12.198 ms

Loss rate: 0.05%

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

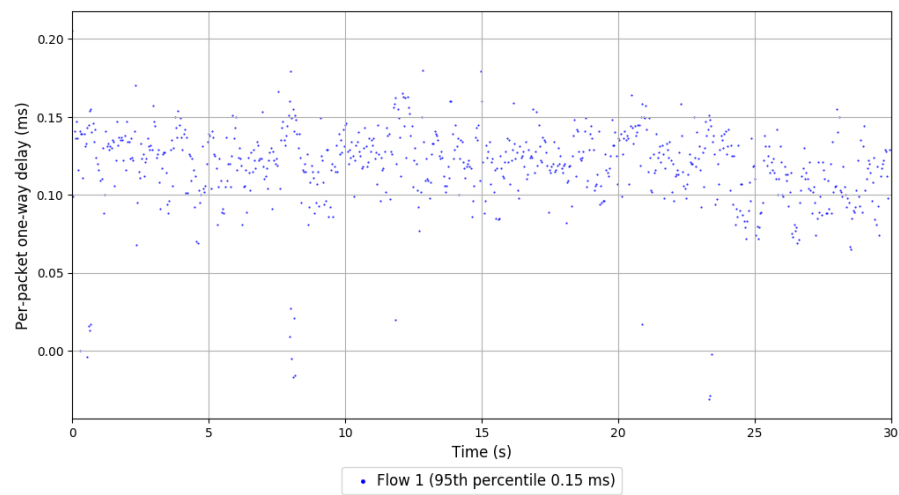
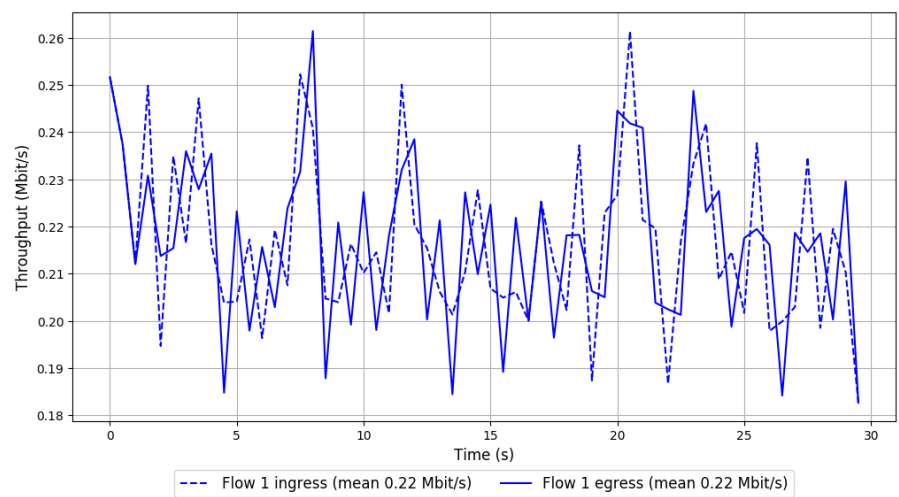


Run 1: Statistics of SCReAM

Start at: 2018-04-17 01:28:13  
End at: 2018-04-17 01:28:43  
Local clock offset: -6.374 ms  
Remote clock offset: -6.658 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.150 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.150 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

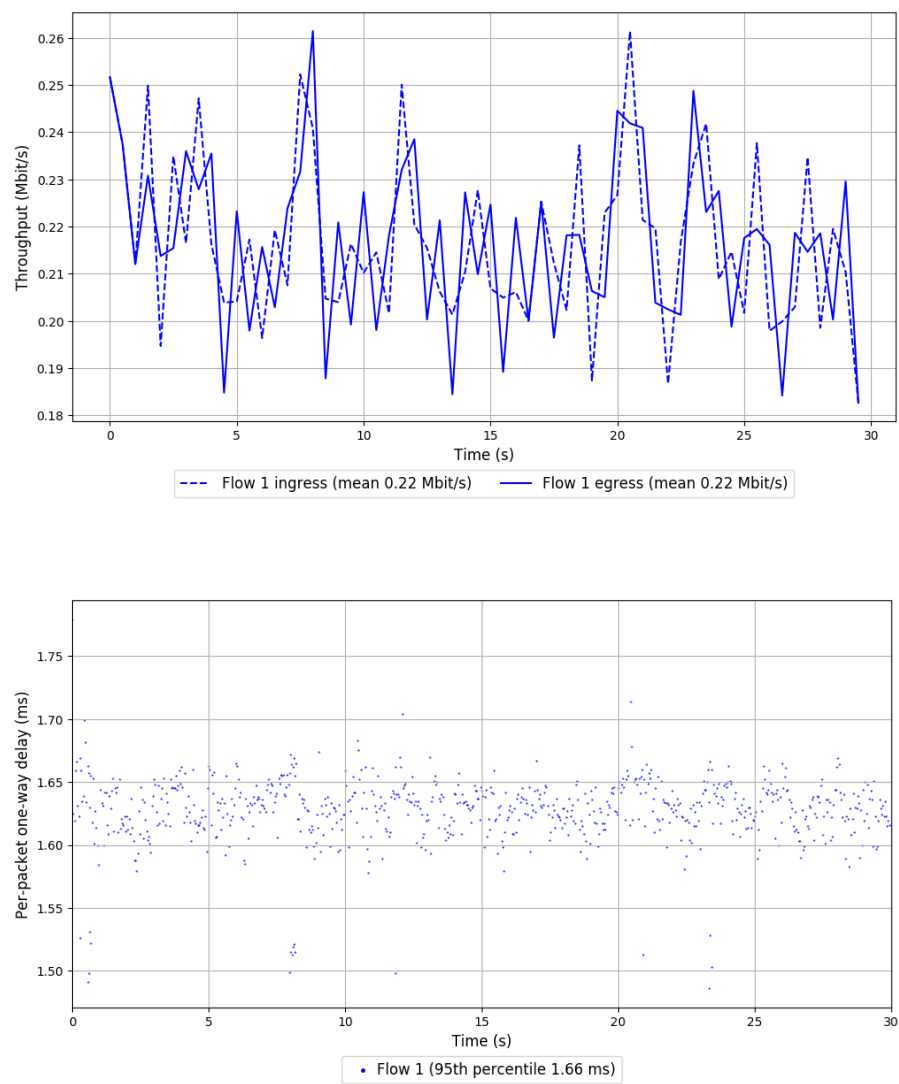


Run 2: Statistics of SCReAM

Start at: 2018-04-17 01:47:15  
End at: 2018-04-17 01:47:45  
Local clock offset: -4.898 ms  
Remote clock offset: -6.774 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.660 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.660 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



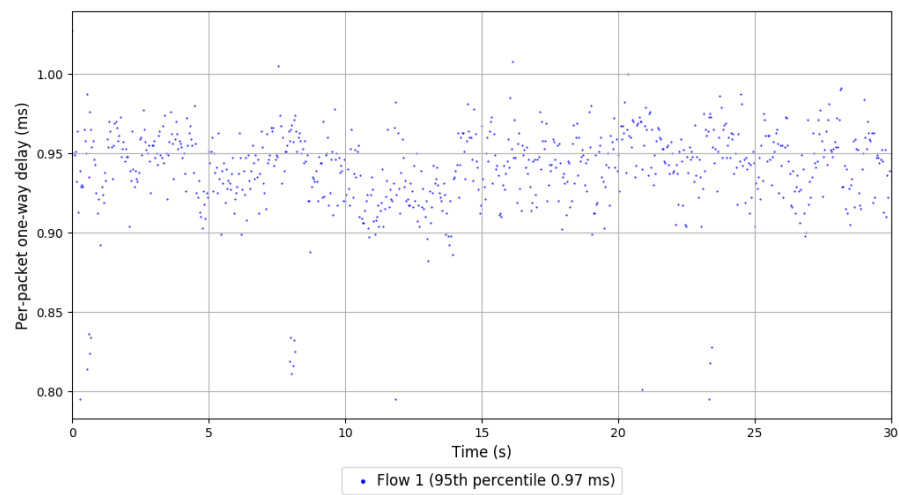
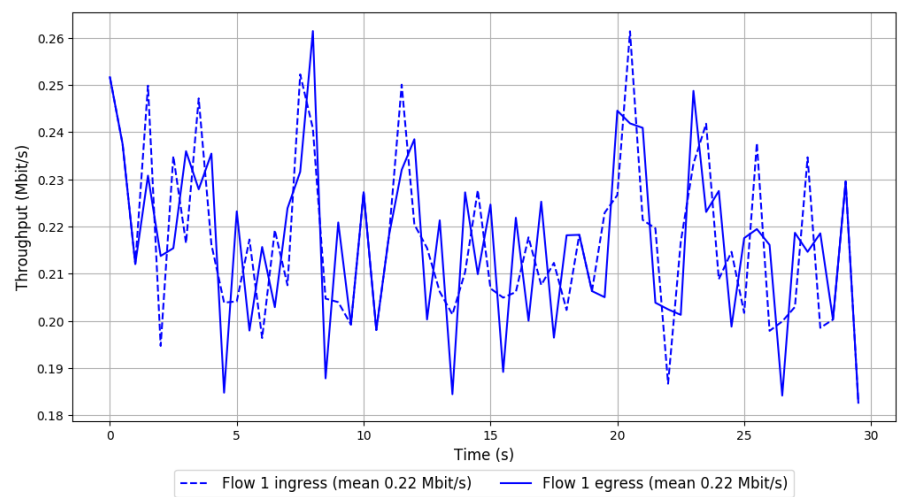
Run 3: Statistics of SCReAM

Start at: 2018-04-17 02:06:11  
End at: 2018-04-17 02:06:41  
Local clock offset: -5.805 ms  
Remote clock offset: -6.972 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.973 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.973 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link

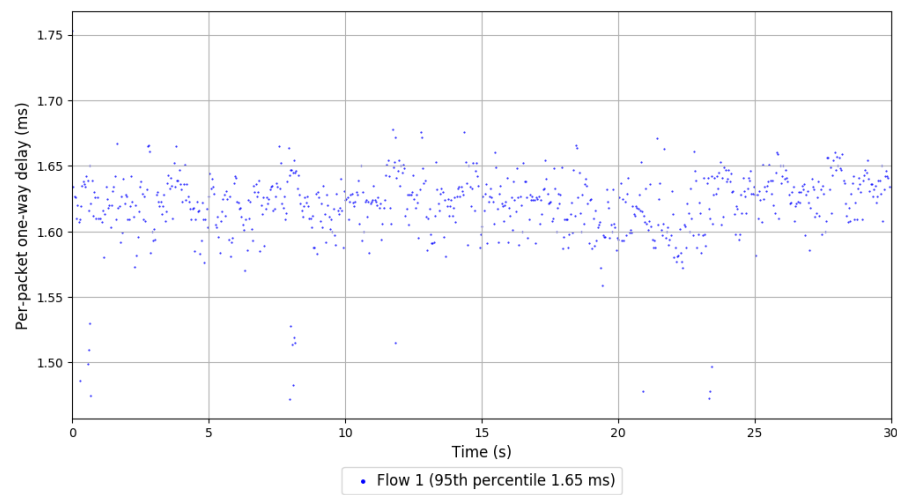
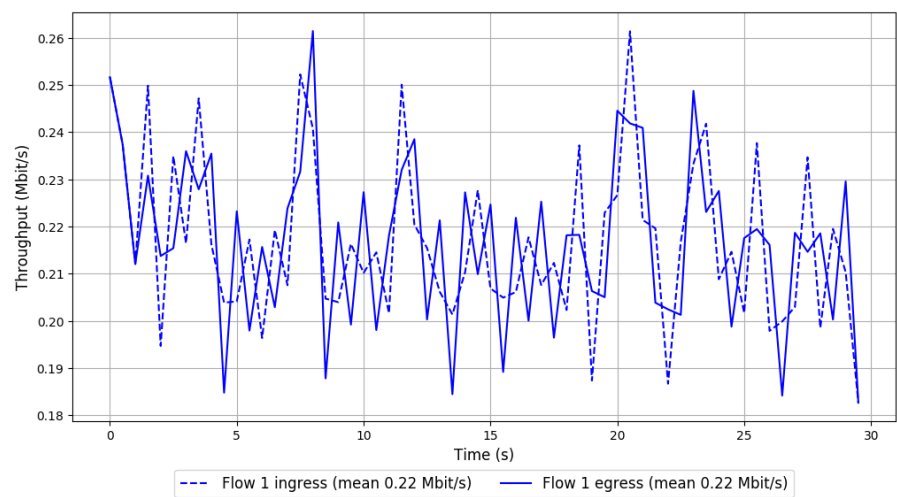


Run 4: Statistics of SCReAM

Start at: 2018-04-17 02:25:13  
End at: 2018-04-17 02:25:43  
Local clock offset: -5.251 ms  
Remote clock offset: -6.497 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.652 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.652 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

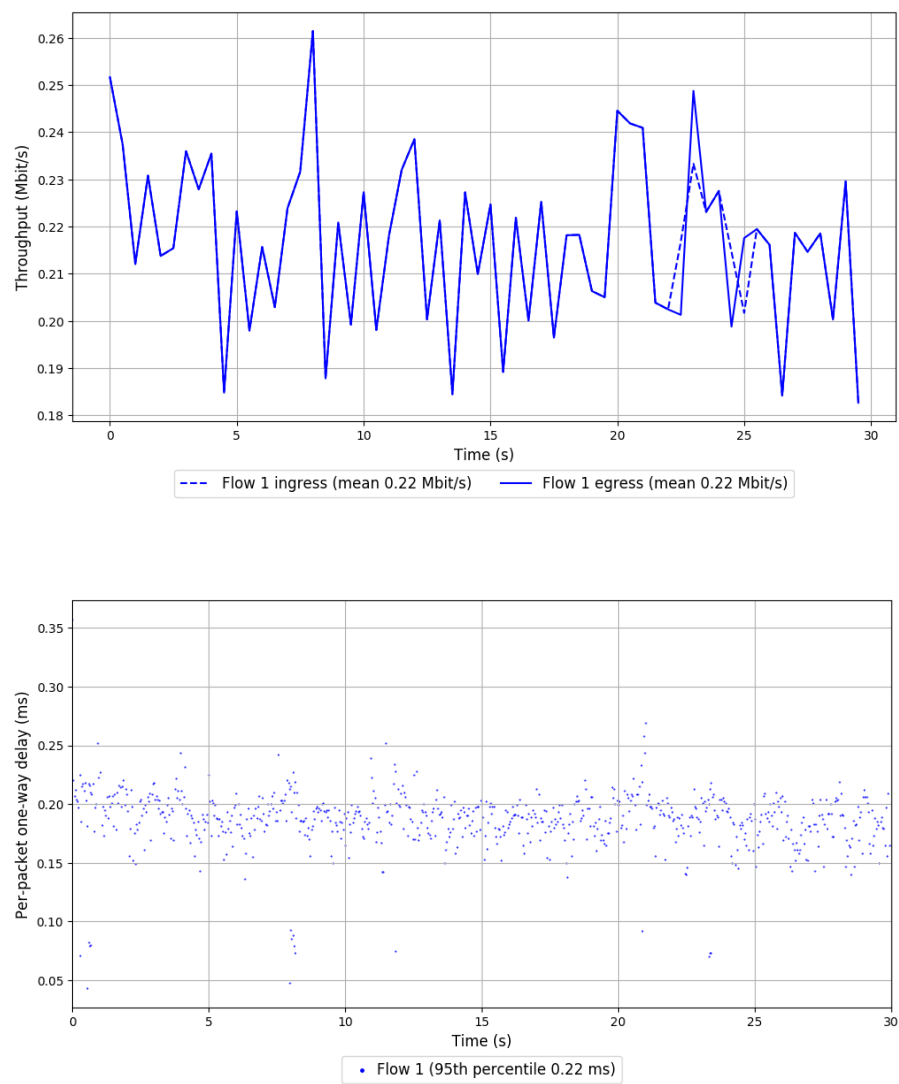


Run 5: Statistics of SCReAM

Start at: 2018-04-17 02:44:15  
End at: 2018-04-17 02:44:45  
Local clock offset: -6.429 ms  
Remote clock offset: -6.198 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.217 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.217 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

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

End at: 2018-04-17 03:03:47

Local clock offset: -4.807 ms

Remote clock offset: -6.6 ms

# Below is generated by plot.py at 2018-04-17 07:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.694 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.694 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



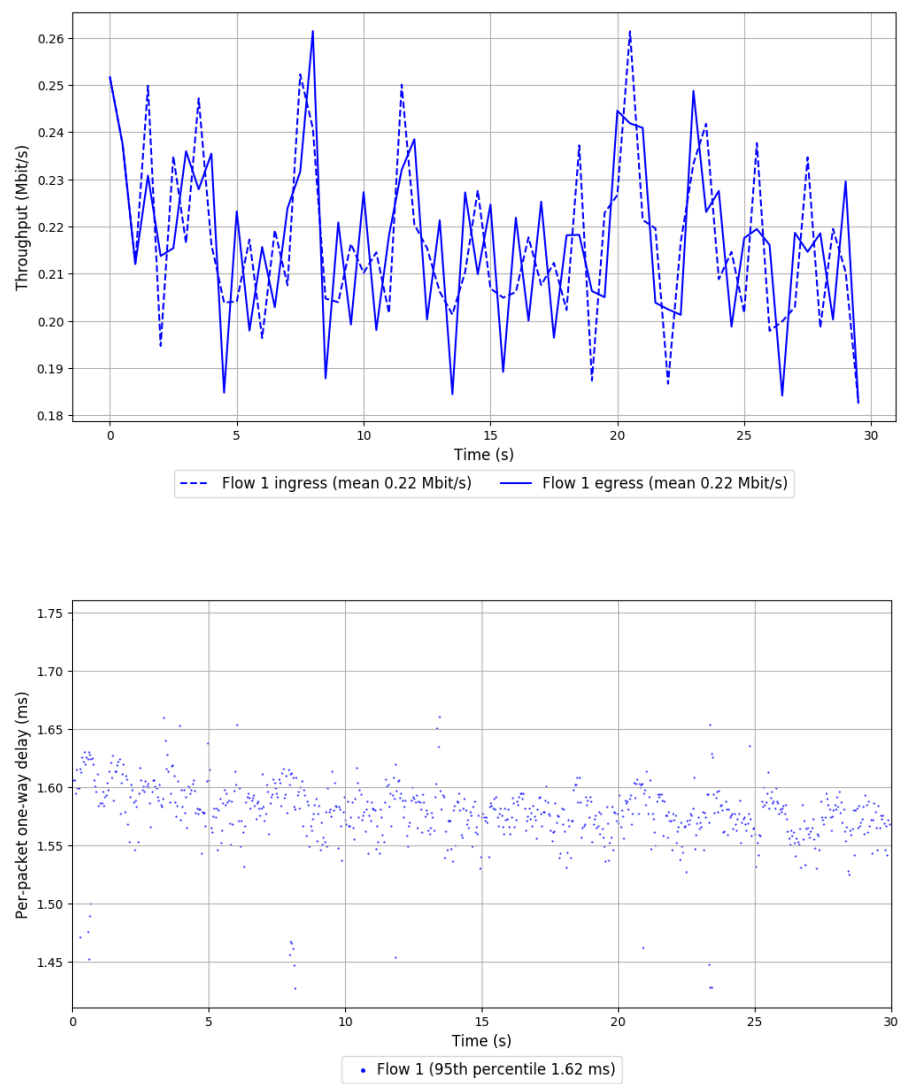
Run 7: Statistics of SCReAM

Start at: 2018-04-17 03:22:22  
End at: 2018-04-17 03:22:52  
Local clock offset: -4.961 ms  
Remote clock offset: -6.502 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.616 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.616 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

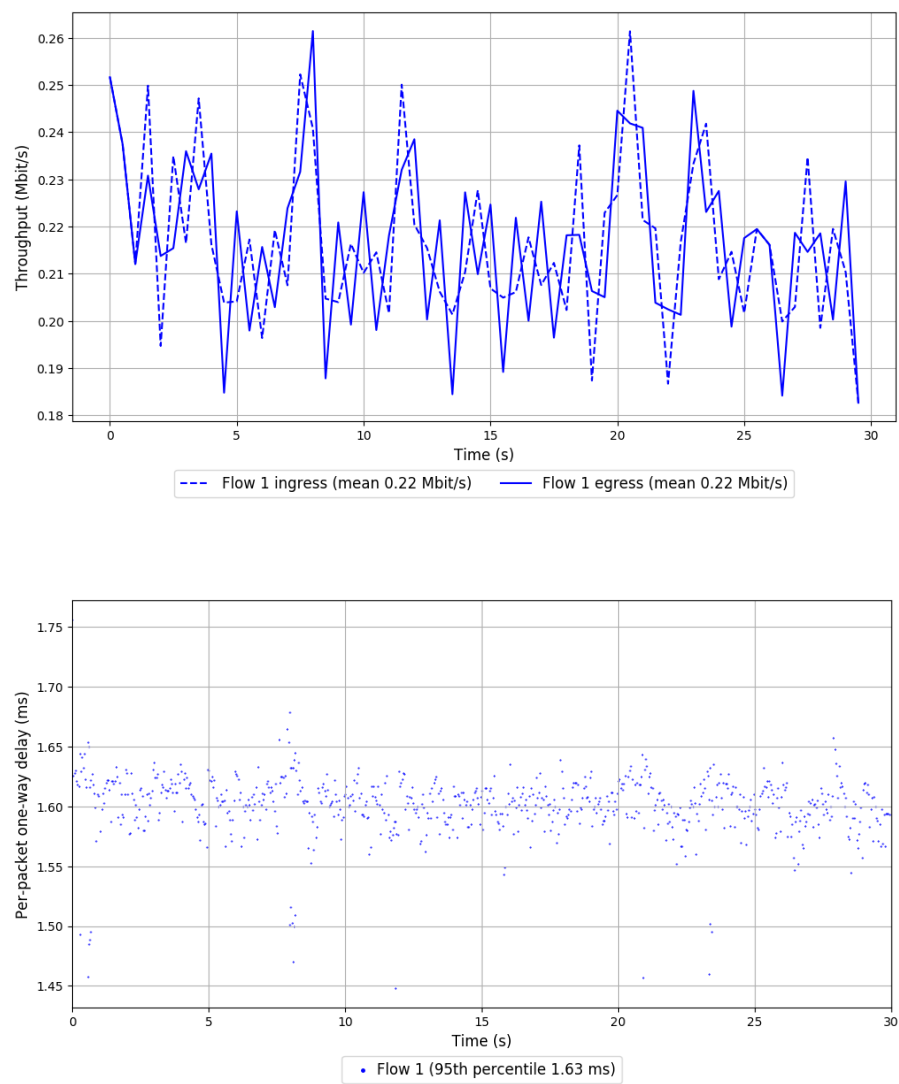


Run 8: Statistics of SCReAM

Start at: 2018-04-17 03:41:28  
End at: 2018-04-17 03:41:58  
Local clock offset: -4.999 ms  
Remote clock offset: -7.009 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.631 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.631 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

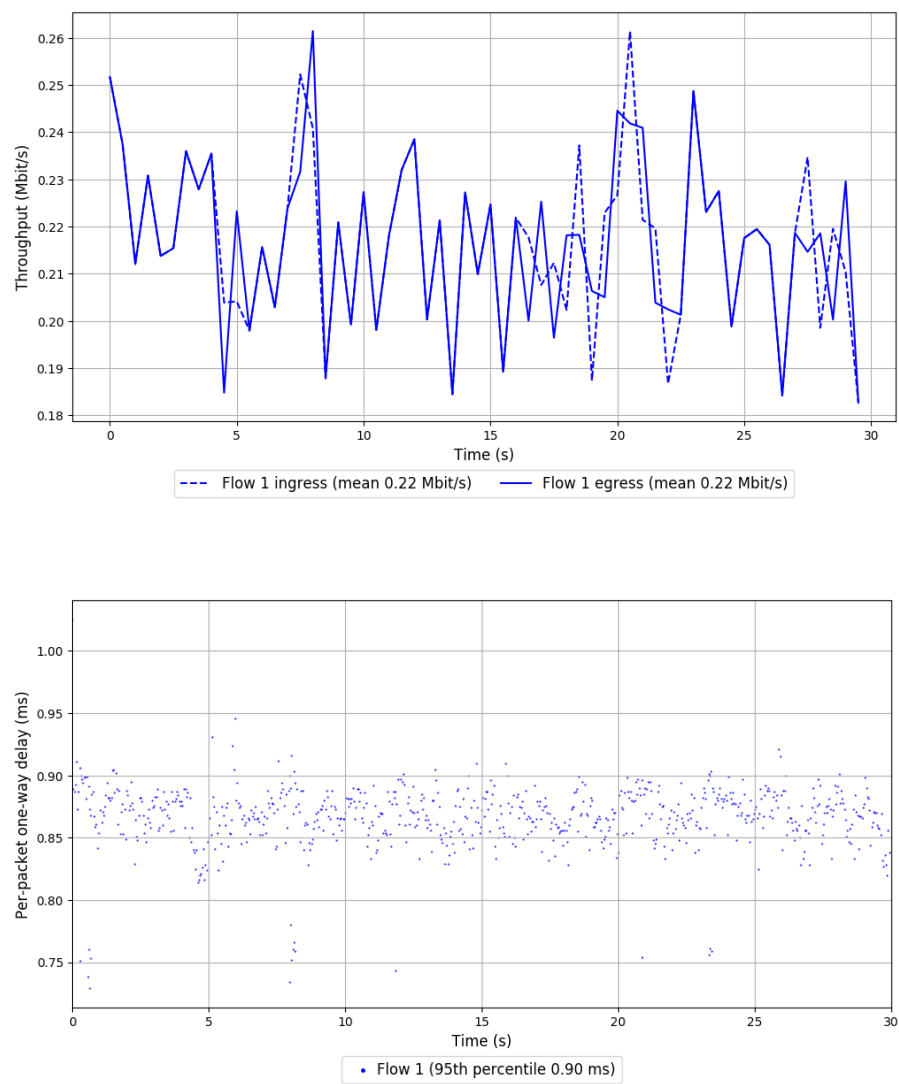


Run 9: Statistics of SCReAM

Start at: 2018-04-17 04:00:30  
End at: 2018-04-17 04:01:00  
Local clock offset: -5.739 ms  
Remote clock offset: -7.067 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.897 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 0.897 ms  
Loss rate: 0.00%

Run 9: Report of SCRaM — Data Link

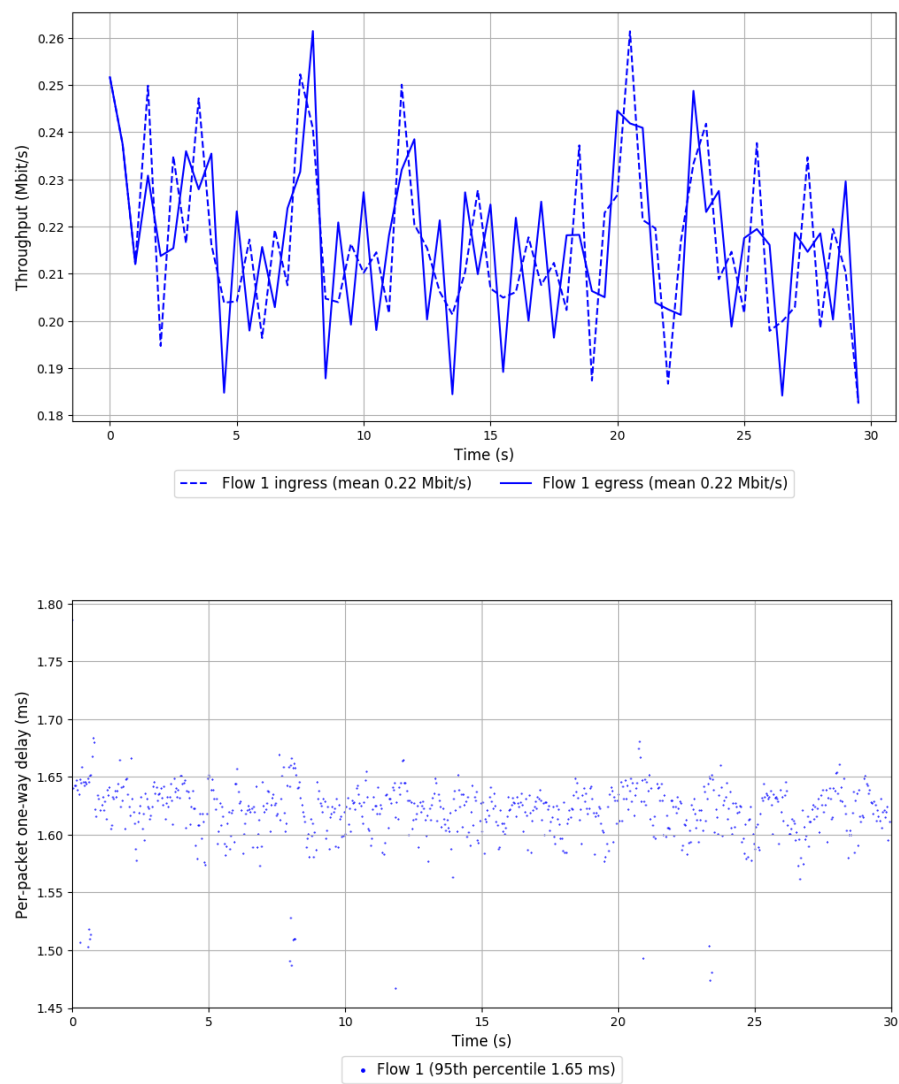


Run 10: Statistics of SCReAM

Start at: 2018-04-17 04:19:35  
End at: 2018-04-17 04:20:05  
Local clock offset: -5.057 ms  
Remote clock offset: -7.022 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.650 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.650 ms  
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



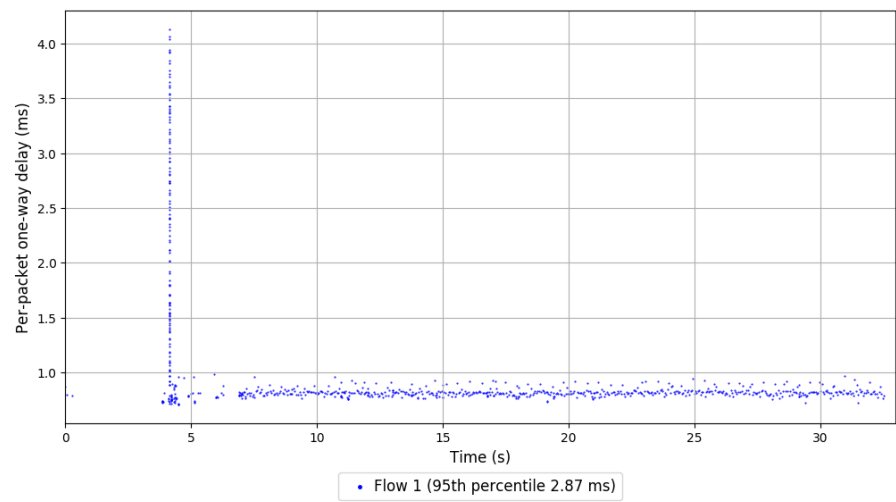
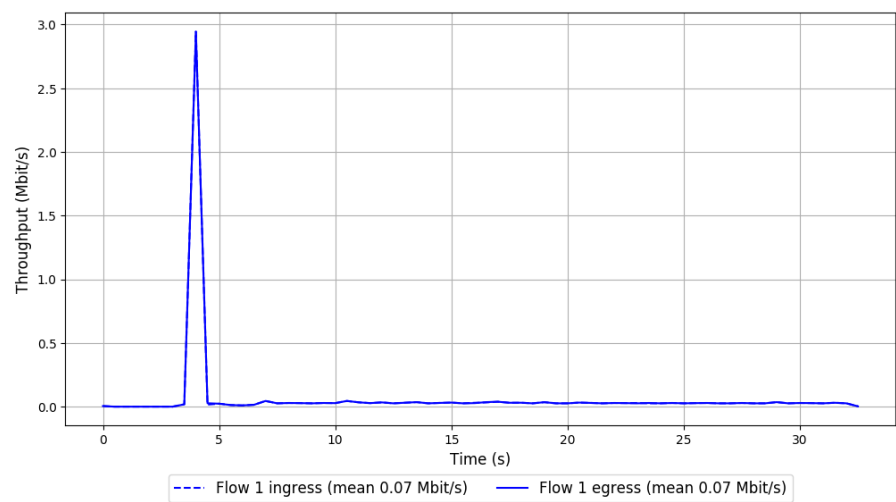
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 01:31:34  
End at: 2018-04-17 01:32:04  
Local clock offset: -5.576 ms  
Remote clock offset: -6.567 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 2.868 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 2.868 ms  
Loss rate: 0.00%



Run 1: Report of WebRTC media — Data Link

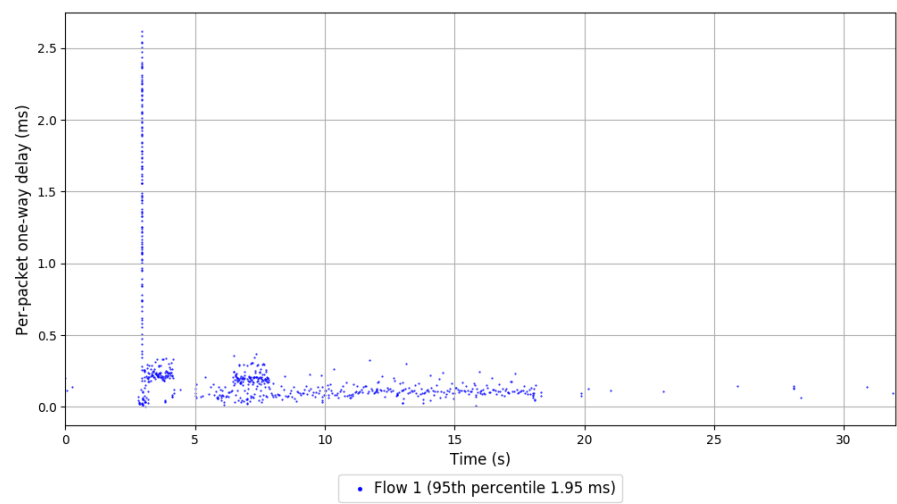
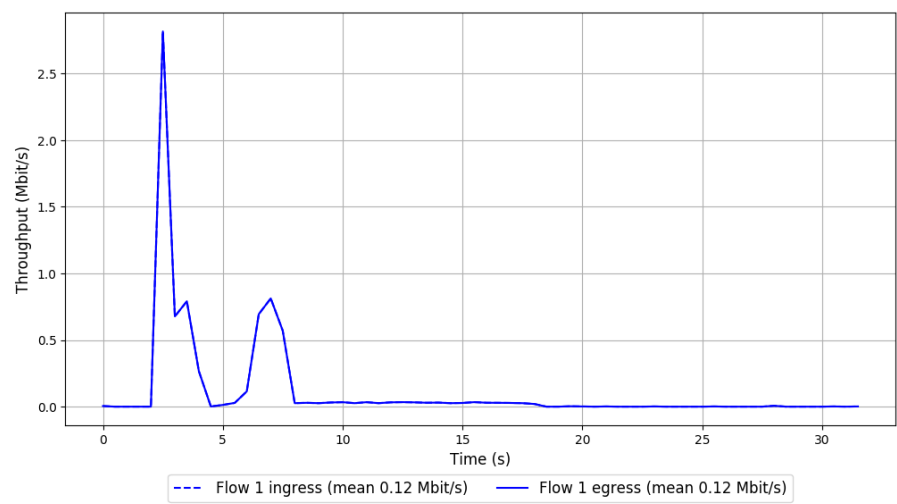


Run 2: Statistics of WebRTC media

Start at: 2018-04-17 01:50:30  
End at: 2018-04-17 01:51:00  
Local clock offset: -6.417 ms  
Remote clock offset: -6.885 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 1.946 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 1.946 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

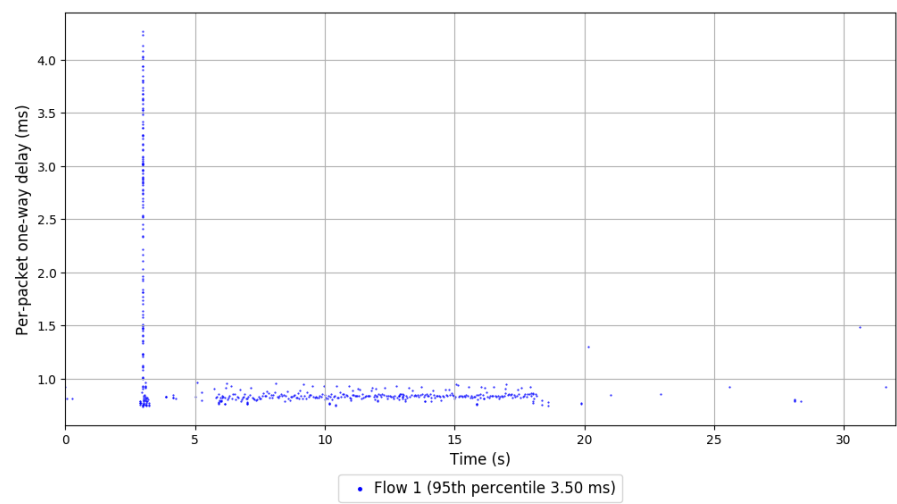
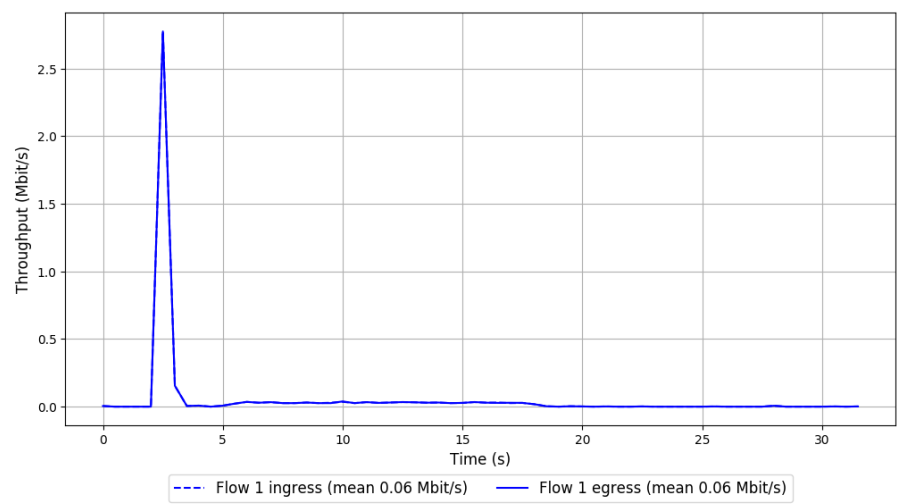


Run 3: Statistics of WebRTC media

Start at: 2018-04-17 02:09:32  
End at: 2018-04-17 02:10:02  
Local clock offset: -5.839 ms  
Remote clock offset: -6.931 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.500 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.500 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

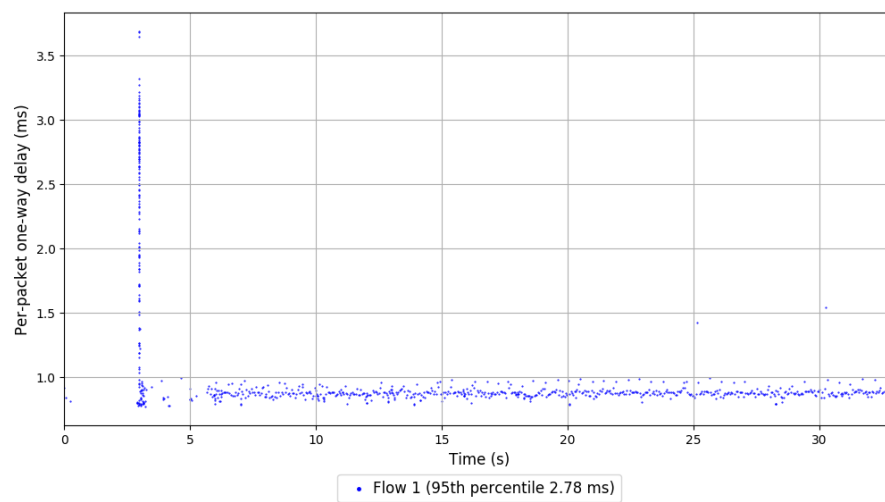
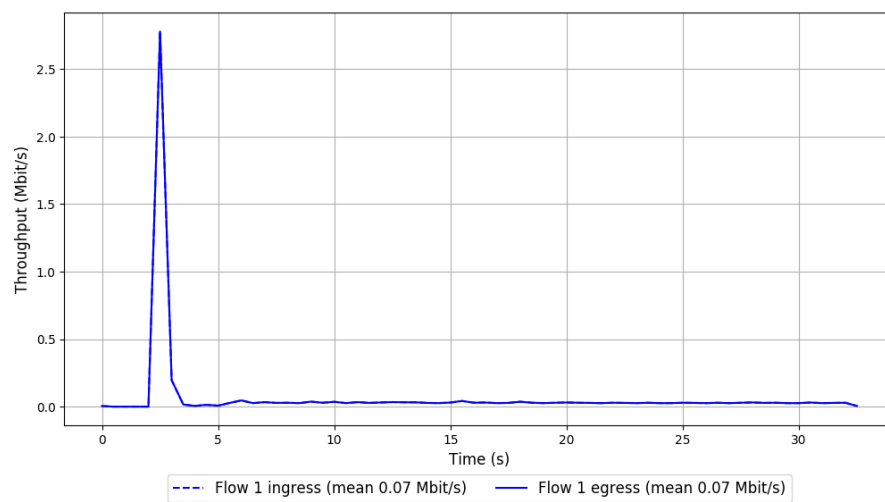


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 02:28:34  
End at: 2018-04-17 02:29:04  
Local clock offset: -6.016 ms  
Remote clock offset: -6.488 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 2.777 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 2.777 ms  
Loss rate: 0.00%

#### Run 4: Report of WebRTC media — Data Link



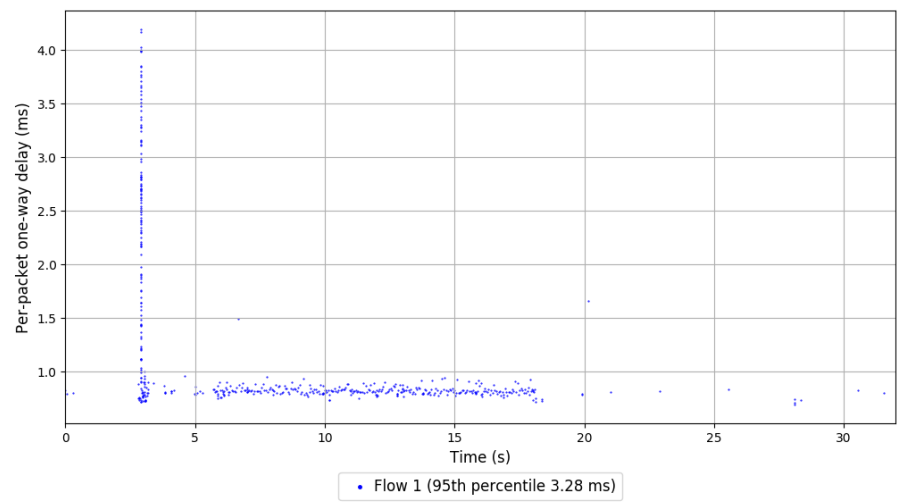
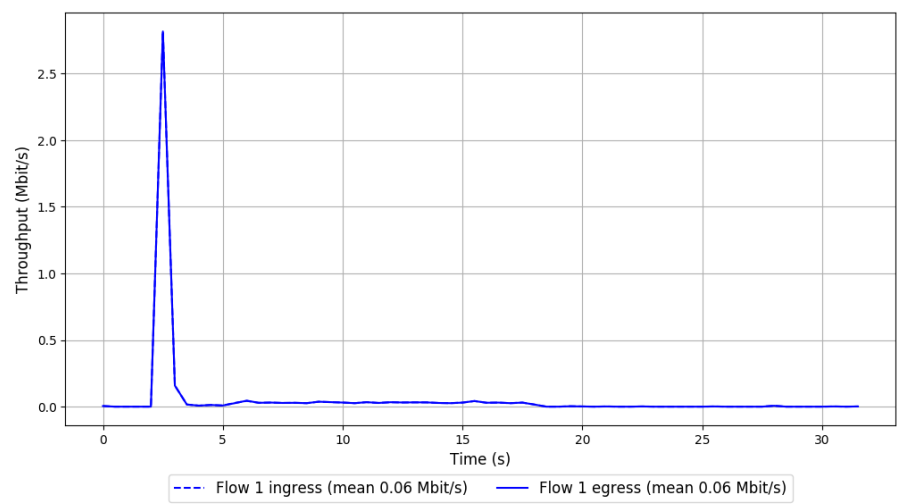
Run 5: Statistics of WebRTC media

Start at: 2018-04-17 02:47:36  
End at: 2018-04-17 02:48:06  
Local clock offset: -5.7 ms  
Remote clock offset: -6.171 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.283 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.283 ms  
Loss rate: 0.00%



Run 5: Report of WebRTC media — Data Link

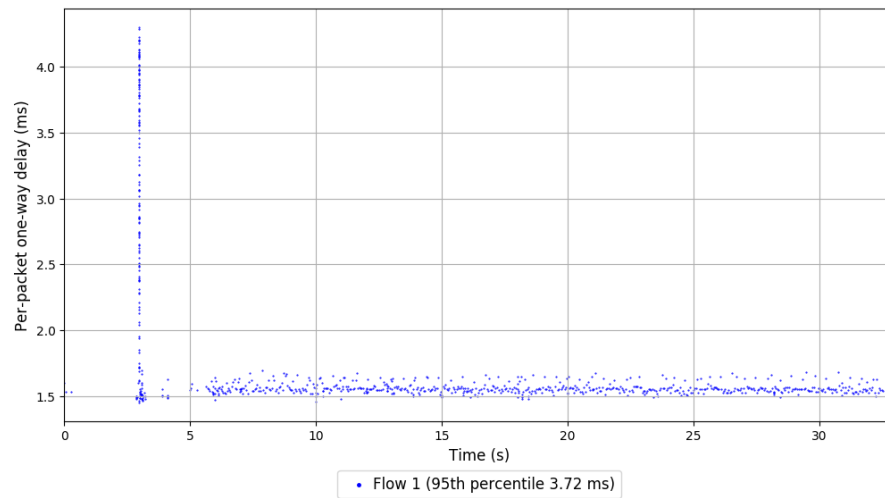
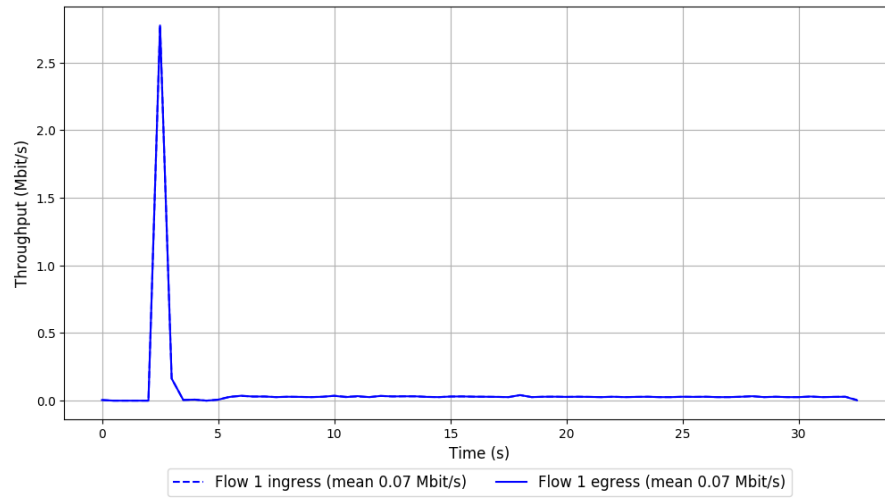


Run 6: Statistics of WebRTC media

Start at: 2018-04-17 03:06:38  
End at: 2018-04-17 03:07:08  
Local clock offset: -4.803 ms  
Remote clock offset: -6.576 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 3.721 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 3.721 ms  
Loss rate: 0.06%

## Run 6: Report of WebRTC media — Data Link

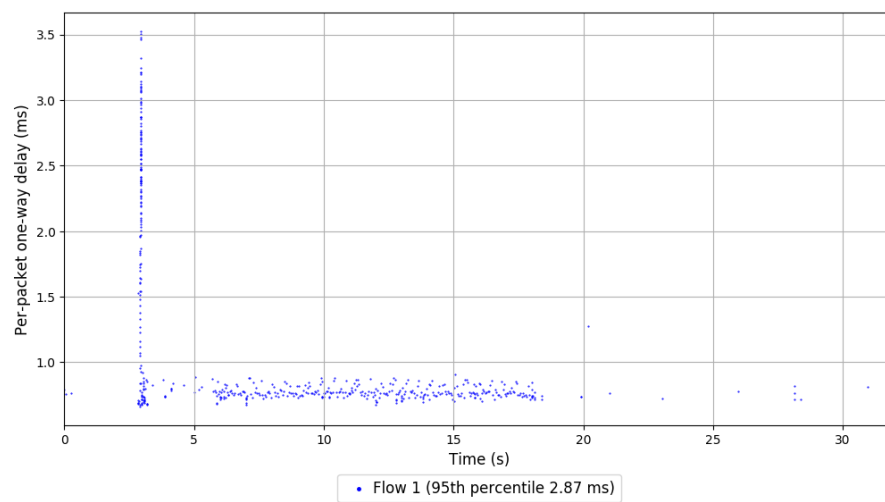
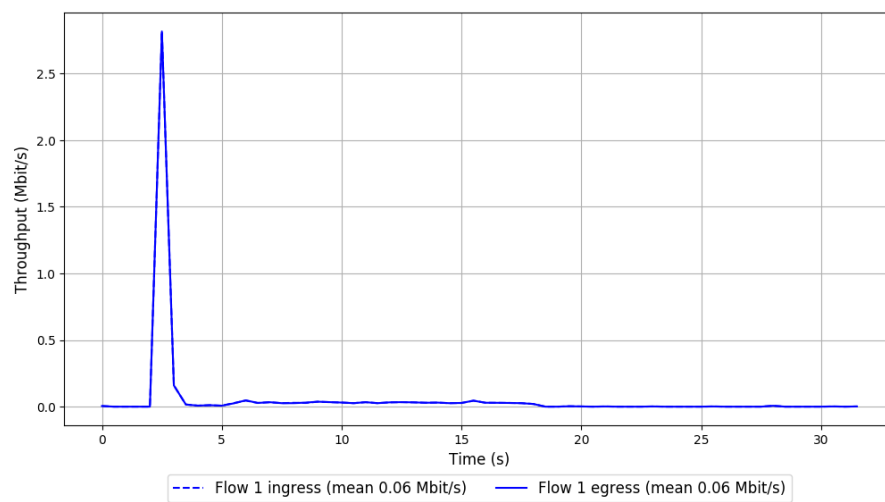


Run 7: Statistics of WebRTC media

Start at: 2018-04-17 03:25:43  
End at: 2018-04-17 03:26:13  
Local clock offset: -5.724 ms  
Remote clock offset: -6.667 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.873 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 2.873 ms  
Loss rate: 0.00%

## Run 7: Report of WebRTC media — Data Link

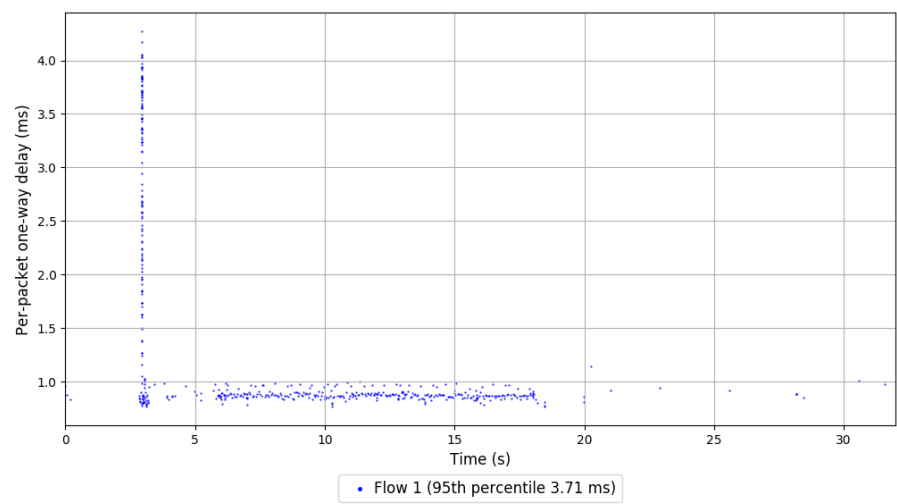
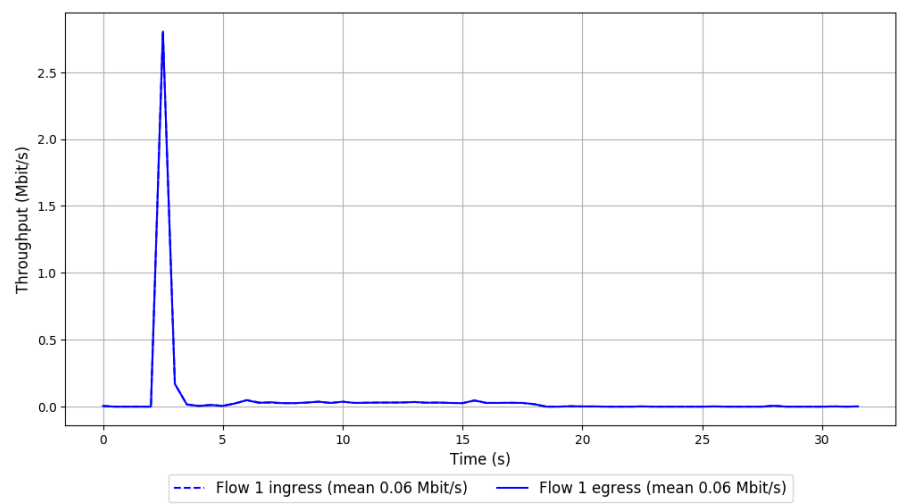


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 03:44:48  
End at: 2018-04-17 03:45:19  
Local clock offset: -5.734 ms  
Remote clock offset: -7.116 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.709 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.709 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



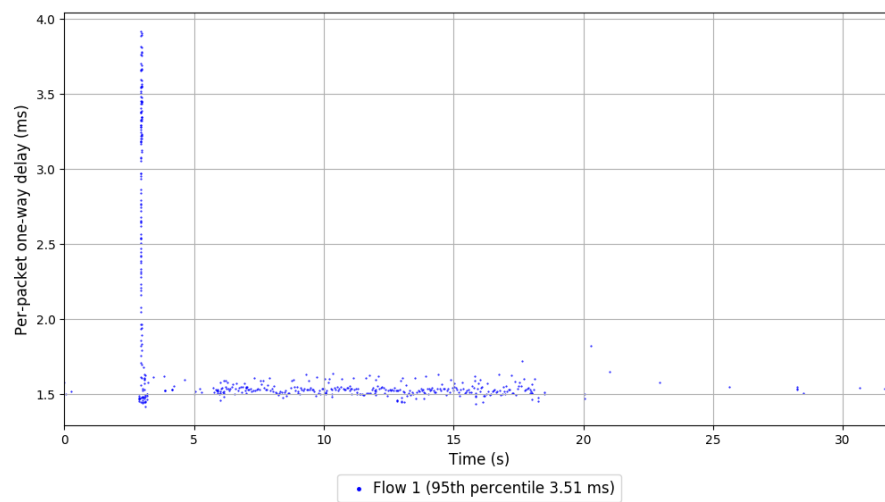
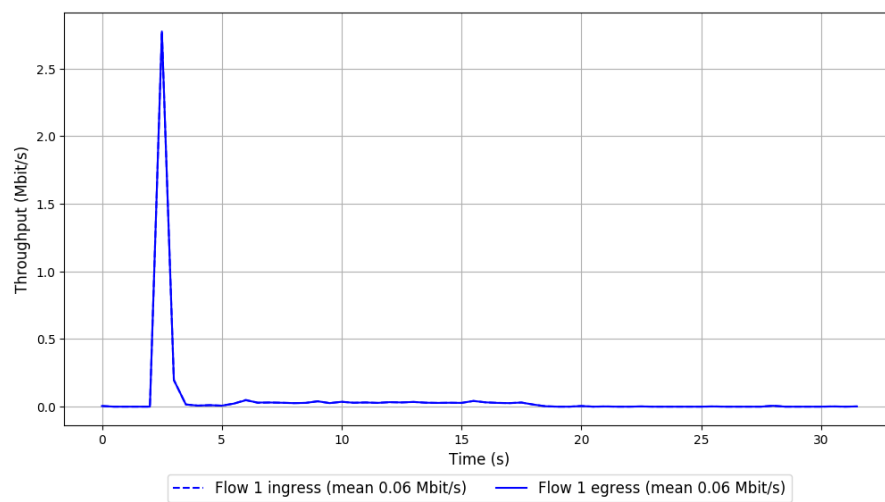
Run 9: Statistics of WebRTC media

Start at: 2018-04-17 04:03:51  
End at: 2018-04-17 04:04:21  
Local clock offset: -5.036 ms  
Remote clock offset: -7.081 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.508 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 3.508 ms  
Loss rate: 0.00%



### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 04:22:56

End at: 2018-04-17 04:23:26

Local clock offset: -5.064 ms

Remote clock offset: -7.026 ms

# Below is generated by plot.py at 2018-04-17 07:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.047 ms

Loss rate: 0.04%

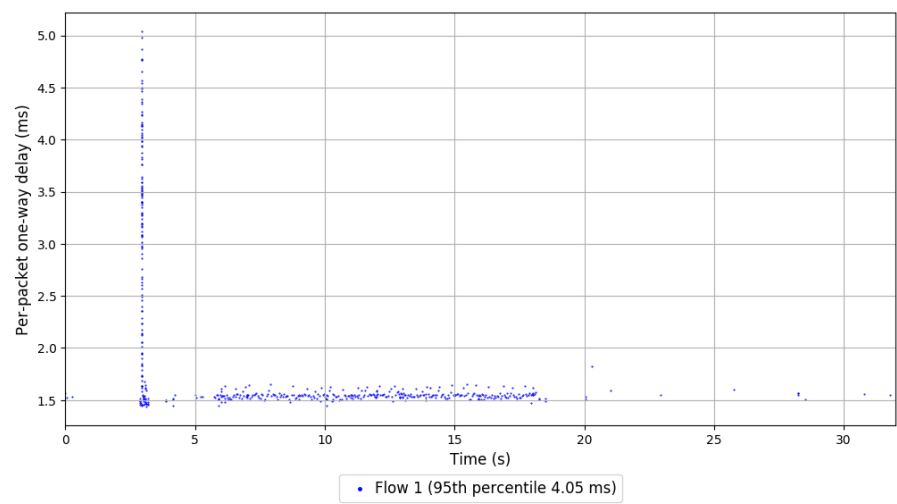
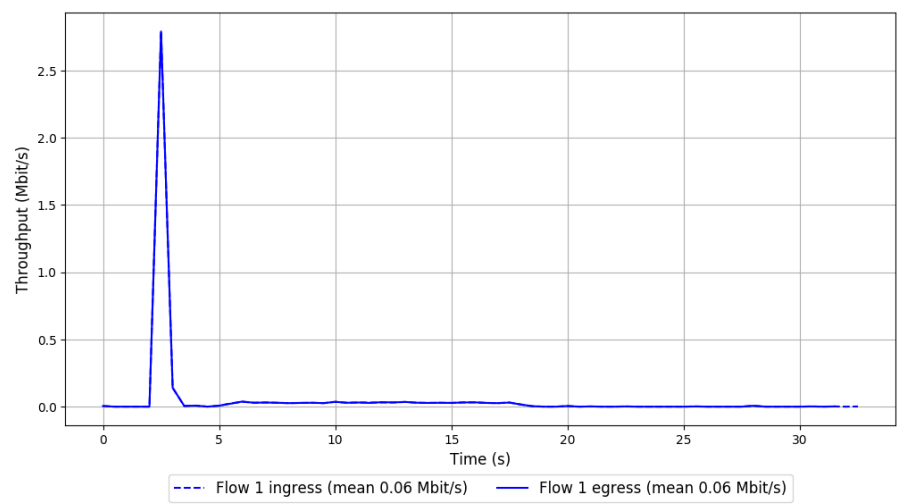
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 4.047 ms

Loss rate: 0.04%

Run 10: Report of WebRTC media — Data Link

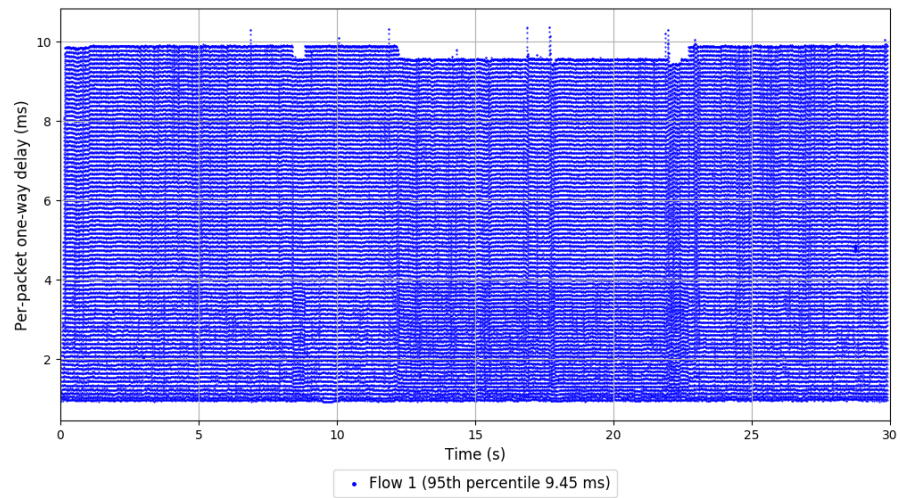
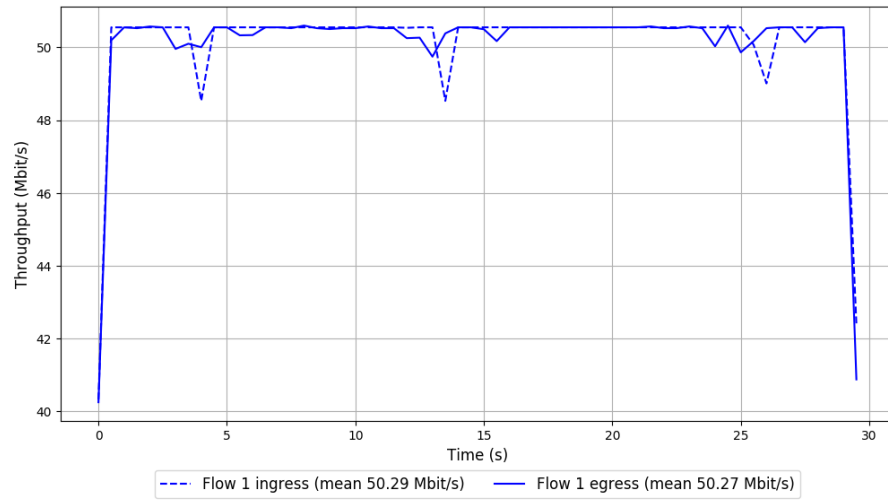


Run 1: Statistics of Sprout

Start at: 2018-04-17 01:34:51  
End at: 2018-04-17 01:35:21  
Local clock offset: -5.627 ms  
Remote clock offset: -6.613 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.27 Mbit/s  
95th percentile per-packet one-way delay: 9.445 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 50.27 Mbit/s  
95th percentile per-packet one-way delay: 9.445 ms  
Loss rate: 0.07%

# Run 1: Report of Sprout — Data Link

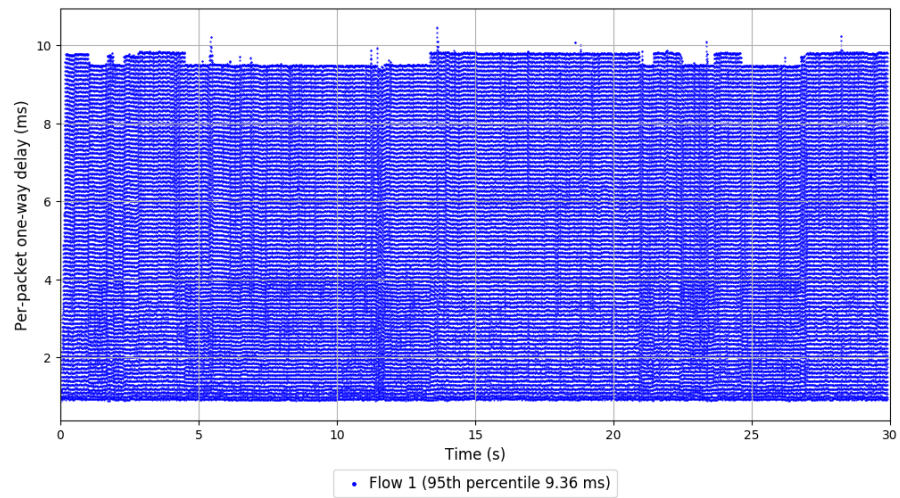
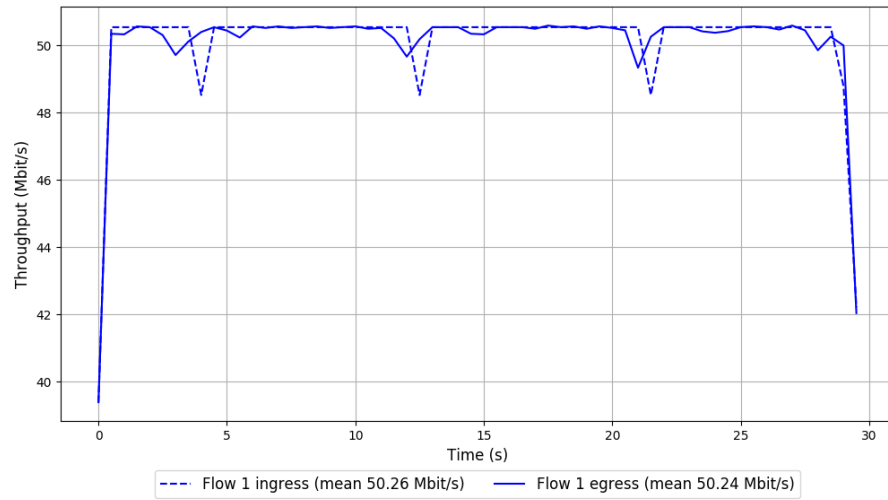


Run 2: Statistics of Sprout

Start at: 2018-04-17 01:53:48  
End at: 2018-04-17 01:54:18  
Local clock offset: -5.647 ms  
Remote clock offset: -6.853 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.24 Mbit/s  
95th percentile per-packet one-way delay: 9.356 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 50.24 Mbit/s  
95th percentile per-packet one-way delay: 9.356 ms  
Loss rate: 0.01%

## Run 2: Report of Sprout — Data Link



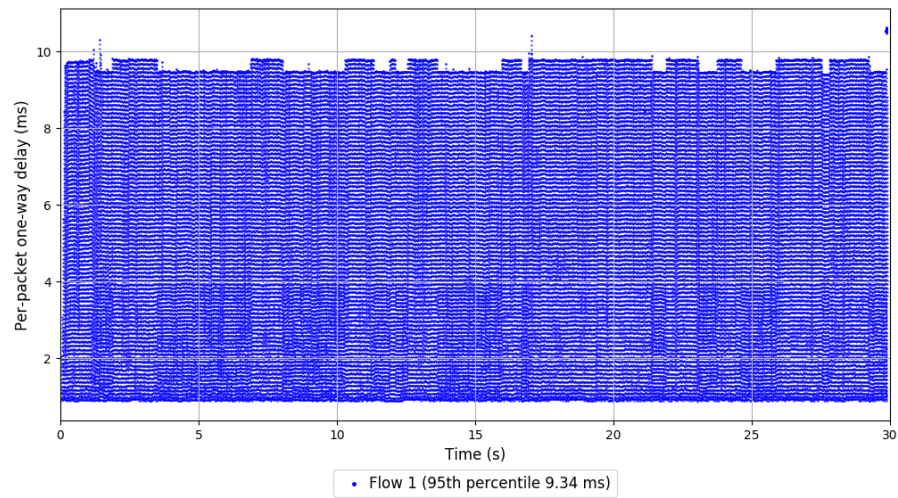
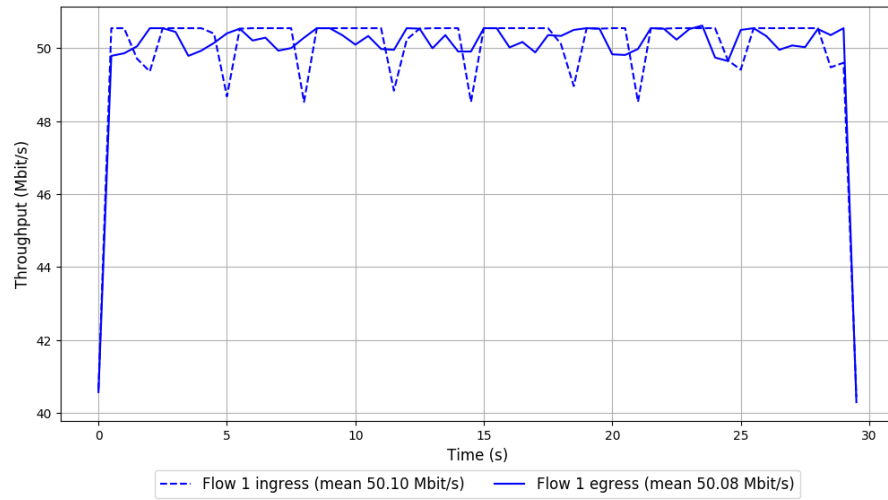
Run 3: Statistics of Sprout

Start at: 2018-04-17 02:12:49  
End at: 2018-04-17 02:13:19  
Local clock offset: -5.911 ms  
Remote clock offset: -6.915 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.08 Mbit/s  
95th percentile per-packet one-way delay: 9.338 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.08 Mbit/s  
95th percentile per-packet one-way delay: 9.338 ms  
Loss rate: 0.00%



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

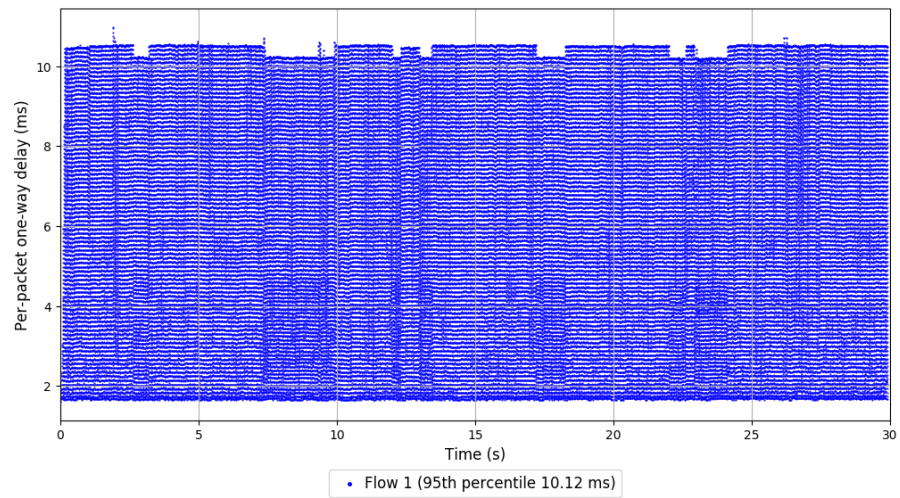
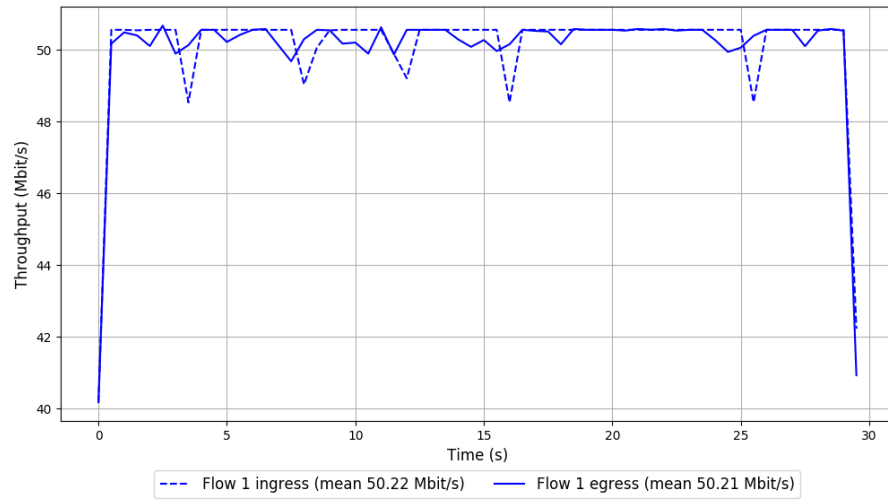


Run 4: Statistics of Sprout

Start at: 2018-04-17 02:31:51  
End at: 2018-04-17 02:32:21  
Local clock offset: -5.287 ms  
Remote clock offset: -6.366 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.21 Mbit/s  
95th percentile per-packet one-way delay: 10.118 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 50.21 Mbit/s  
95th percentile per-packet one-way delay: 10.118 ms  
Loss rate: 0.06%

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



Run 5: Statistics of Sprout

Start at: 2018-04-17 02:50:53

End at: 2018-04-17 02:51:23

Local clock offset: -5.656 ms

Remote clock offset: -6.27 ms

# Below is generated by plot.py at 2018-04-17 07:56:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 9.307 ms

Loss rate: 0.00%

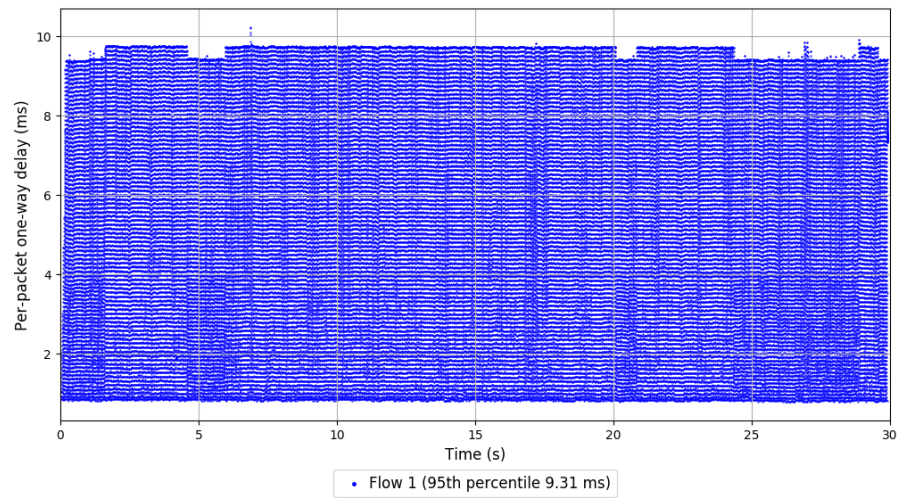
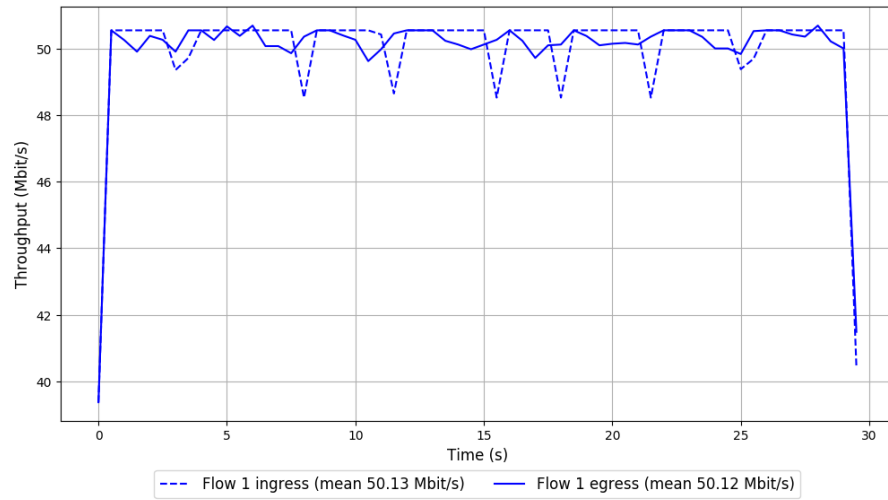
-- Flow 1:

Average throughput: 50.12 Mbit/s

95th percentile per-packet one-way delay: 9.307 ms

Loss rate: 0.00%

### Run 5: Report of Sprout — Data Link

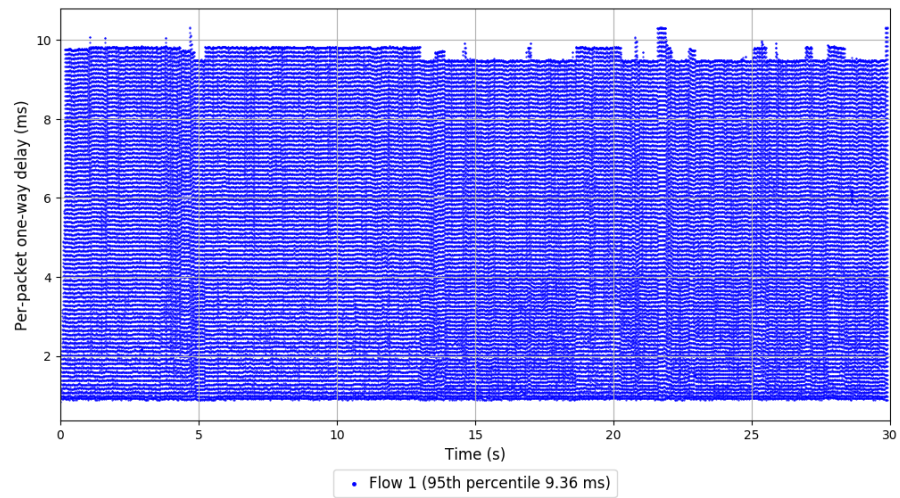
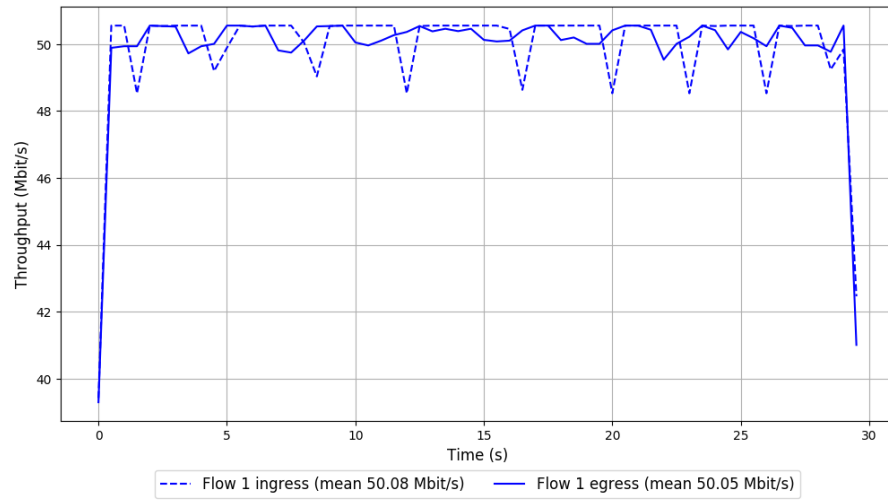


Run 6: Statistics of Sprout

Start at: 2018-04-17 03:09:56  
End at: 2018-04-17 03:10:26  
Local clock offset: -5.582 ms  
Remote clock offset: -6.539 ms

# Below is generated by plot.py at 2018-04-17 07:56:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.05 Mbit/s  
95th percentile per-packet one-way delay: 9.364 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 50.05 Mbit/s  
95th percentile per-packet one-way delay: 9.364 ms  
Loss rate: 0.05%

## Run 6: Report of Sprout — Data Link



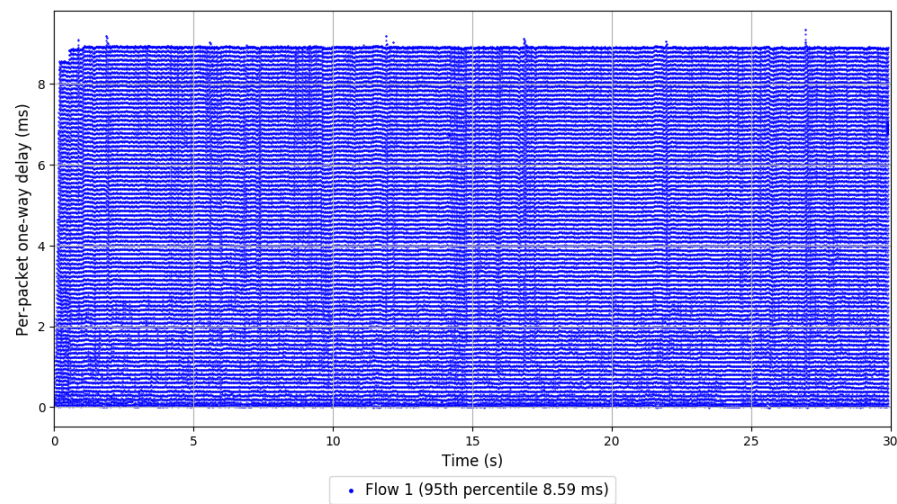
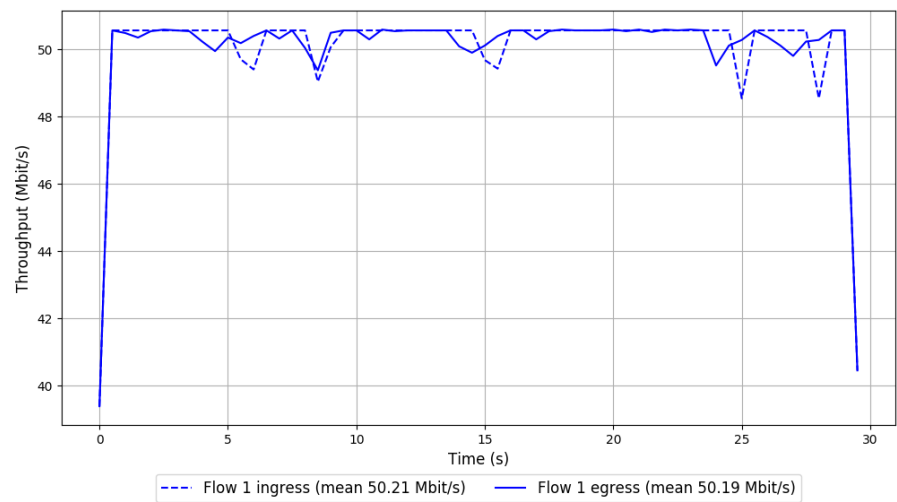
Run 7: Statistics of Sprout

Start at: 2018-04-17 03:29:02  
End at: 2018-04-17 03:29:32  
Local clock offset: -6.564 ms  
Remote clock offset: -6.762 ms

# Below is generated by plot.py at 2018-04-17 07:57:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.19 Mbit/s  
95th percentile per-packet one-way delay: 8.585 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.19 Mbit/s  
95th percentile per-packet one-way delay: 8.585 ms  
Loss rate: 0.00%



Run 7: Report of Sprout — Data Link

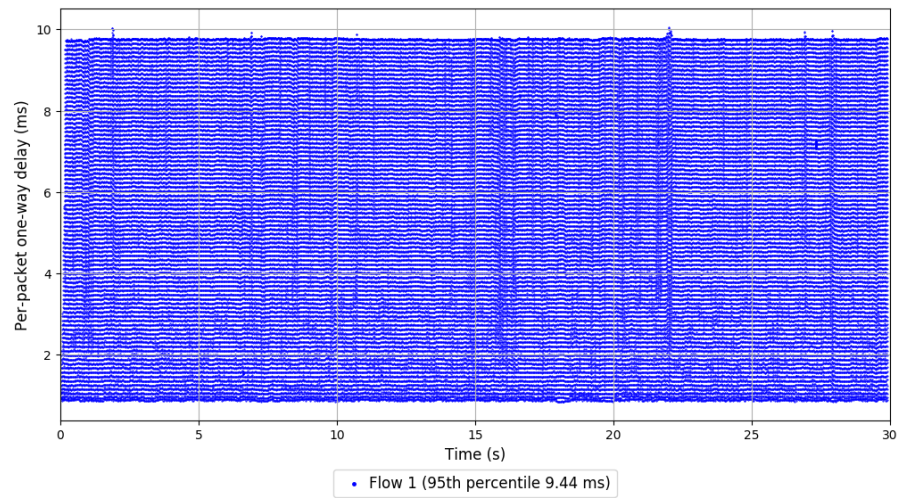
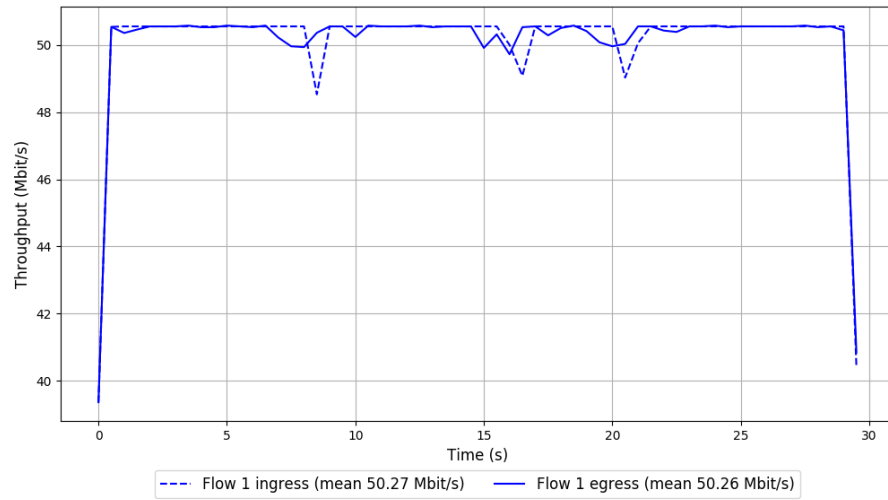


Run 8: Statistics of Sprout

Start at: 2018-04-17 03:48:06  
End at: 2018-04-17 03:48:36  
Local clock offset: -5.772 ms  
Remote clock offset: -7.083 ms

# Below is generated by plot.py at 2018-04-17 07:57:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.26 Mbit/s  
95th percentile per-packet one-way delay: 9.443 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.26 Mbit/s  
95th percentile per-packet one-way delay: 9.443 ms  
Loss rate: 0.00%

## Run 8: Report of Sprout — Data Link

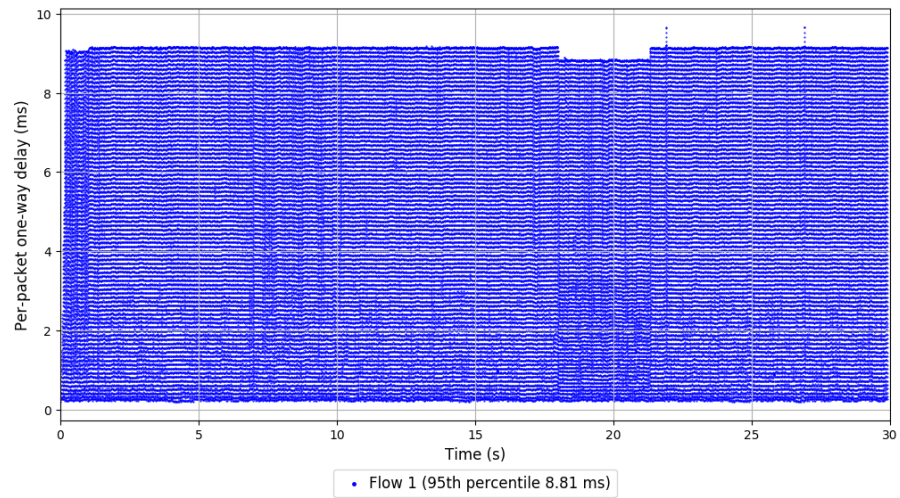
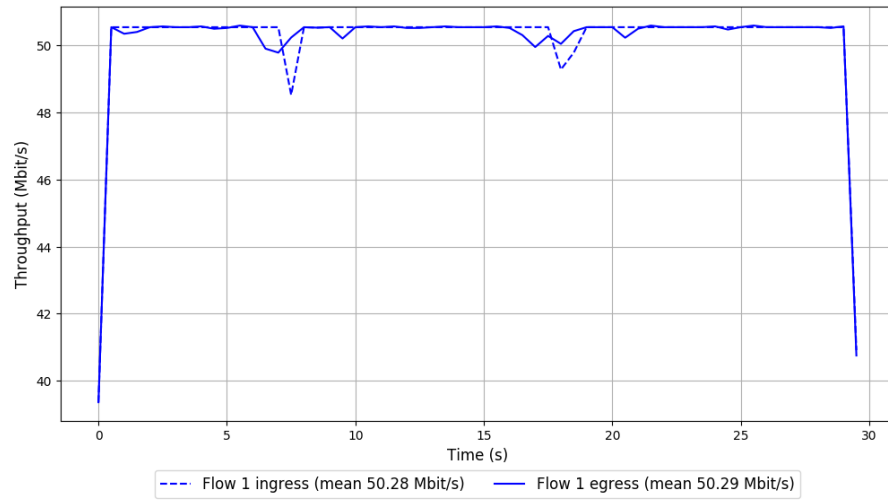


Run 9: Statistics of Sprout

Start at: 2018-04-17 04:07:09  
End at: 2018-04-17 04:07:39  
Local clock offset: -6.511 ms  
Remote clock offset: -7.137 ms

# Below is generated by plot.py at 2018-04-17 07:57:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.29 Mbit/s  
95th percentile per-packet one-way delay: 8.811 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 50.29 Mbit/s  
95th percentile per-packet one-way delay: 8.811 ms  
Loss rate: 0.02%

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

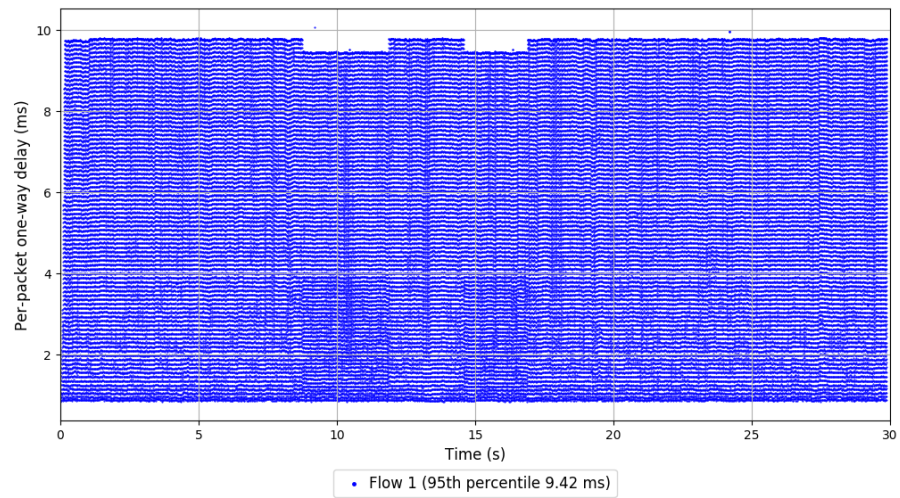
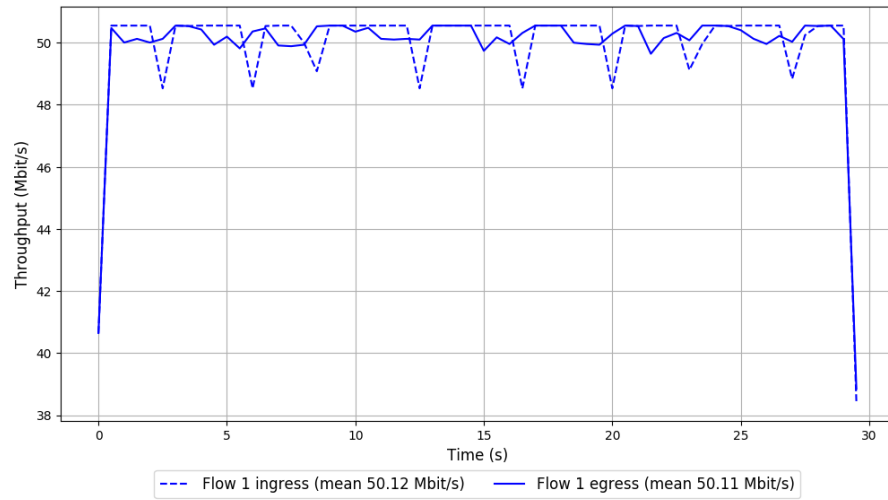


Run 10: Statistics of Sprout

Start at: 2018-04-17 04:26:12  
End at: 2018-04-17 04:26:42  
Local clock offset: -5.833 ms  
Remote clock offset: -7.009 ms

# Below is generated by plot.py at 2018-04-17 07:57:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.11 Mbit/s  
95th percentile per-packet one-way delay: 9.417 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.11 Mbit/s  
95th percentile per-packet one-way delay: 9.417 ms  
Loss rate: 0.00%

# Run 10: Report of Sprout — Data Link



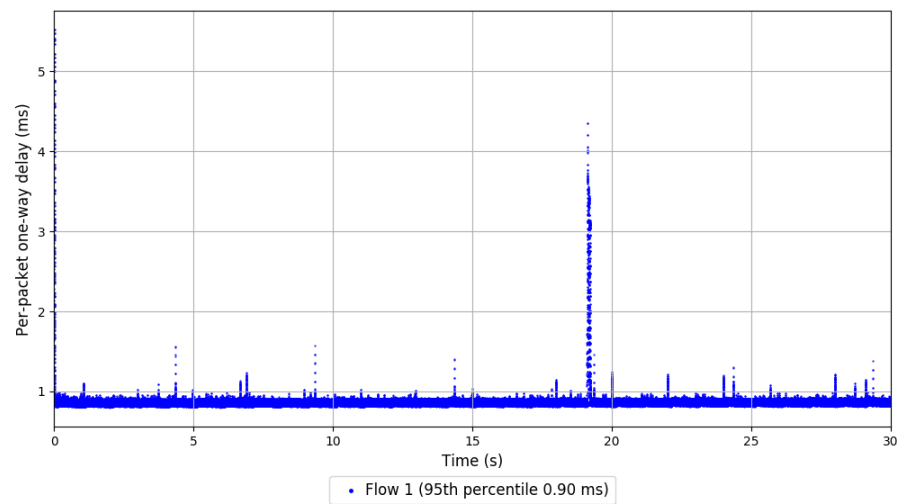
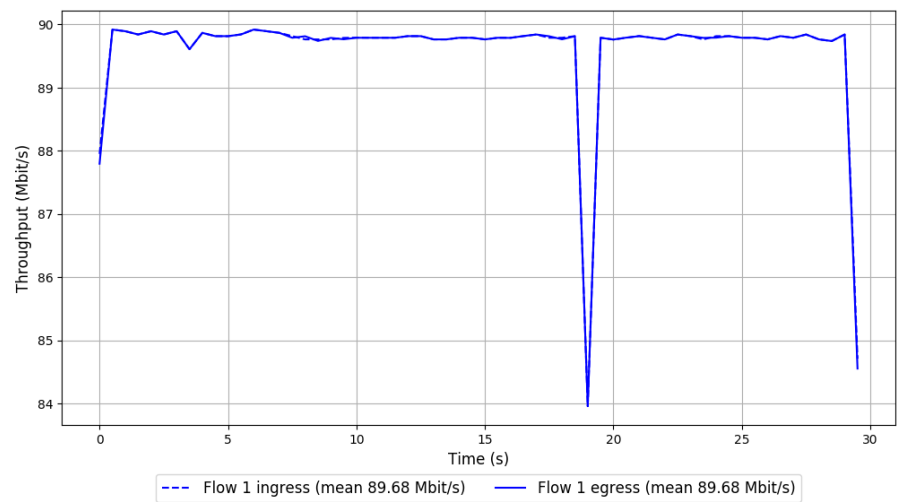
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 01:29:17  
End at: 2018-04-17 01:29:47  
Local clock offset: -5.619 ms  
Remote clock offset: -6.611 ms

# Below is generated by plot.py at 2018-04-17 07:58:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.68 Mbit/s  
95th percentile per-packet one-way delay: 0.899 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 89.68 Mbit/s  
95th percentile per-packet one-way delay: 0.899 ms  
Loss rate: 0.01%



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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 01:48:19

End at: 2018-04-17 01:48:49

Local clock offset: -5.67 ms

Remote clock offset: -6.786 ms

# Below is generated by plot.py at 2018-04-17 07:58:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.54 Mbit/s

95th percentile per-packet one-way delay: 0.905 ms

Loss rate: 0.00%

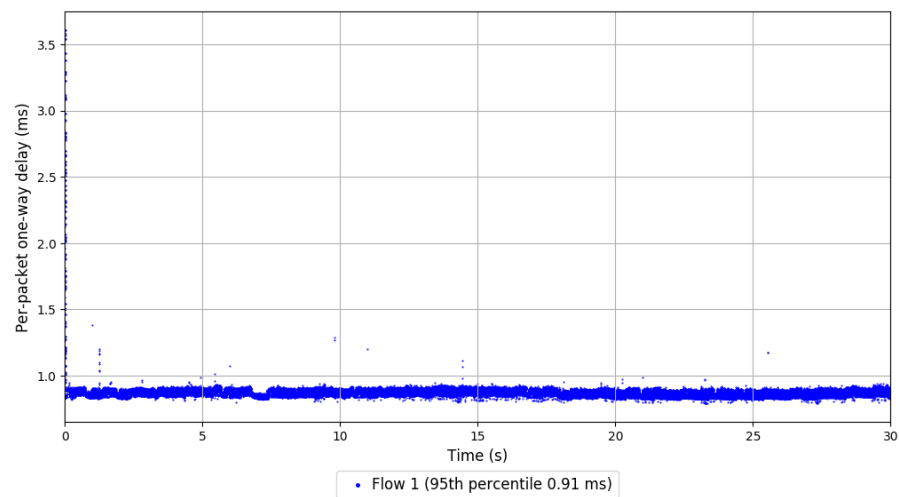
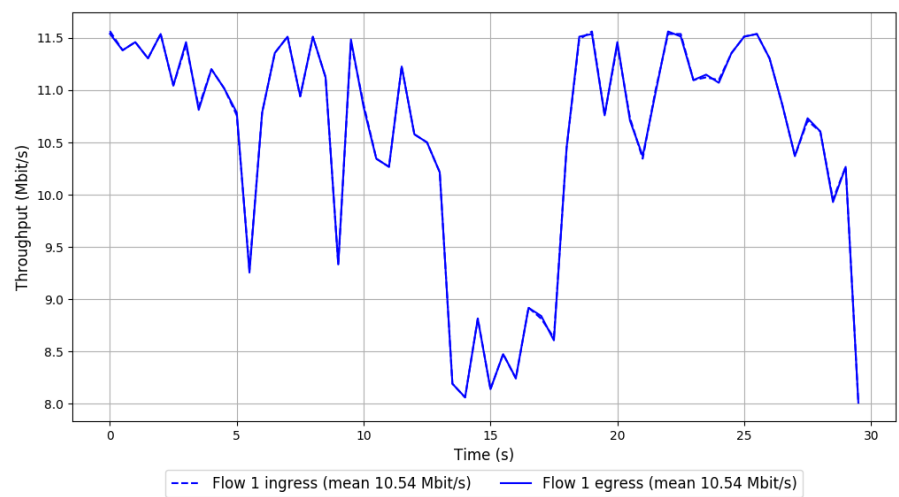
-- Flow 1:

Average throughput: 10.54 Mbit/s

95th percentile per-packet one-way delay: 0.905 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 02:07:15

End at: 2018-04-17 02:07:45

Local clock offset: -6.61 ms

Remote clock offset: -6.913 ms

# Below is generated by plot.py at 2018-04-17 07:59:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.83 Mbit/s

95th percentile per-packet one-way delay: 0.147 ms

Loss rate: 0.01%

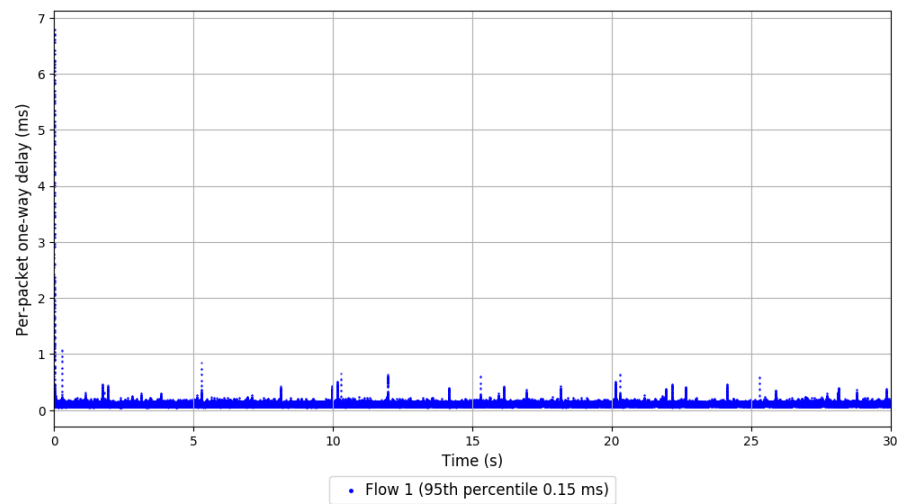
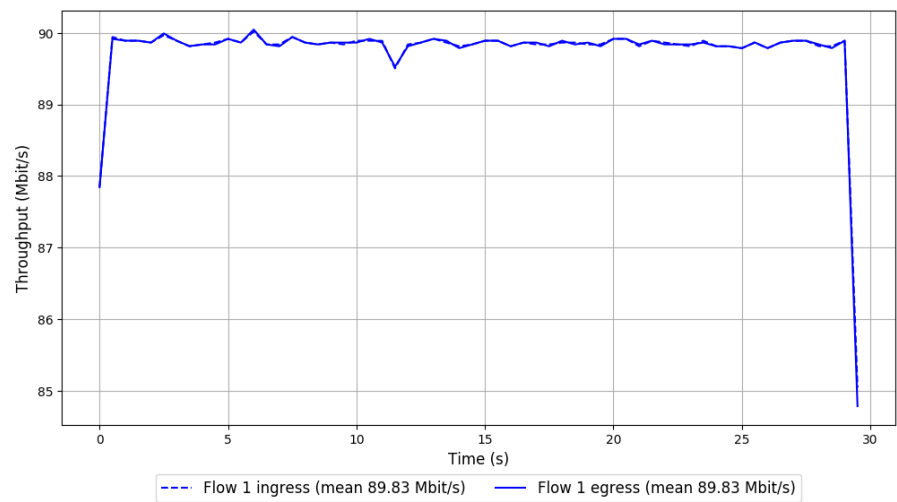
-- Flow 1:

Average throughput: 89.83 Mbit/s

95th percentile per-packet one-way delay: 0.147 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 02:26:17

End at: 2018-04-17 02:26:47

Local clock offset: -5.245 ms

Remote clock offset: -6.47 ms

# Below is generated by plot.py at 2018-04-17 07:59:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.15 Mbit/s

95th percentile per-packet one-way delay: 1.650 ms

Loss rate: 0.01%

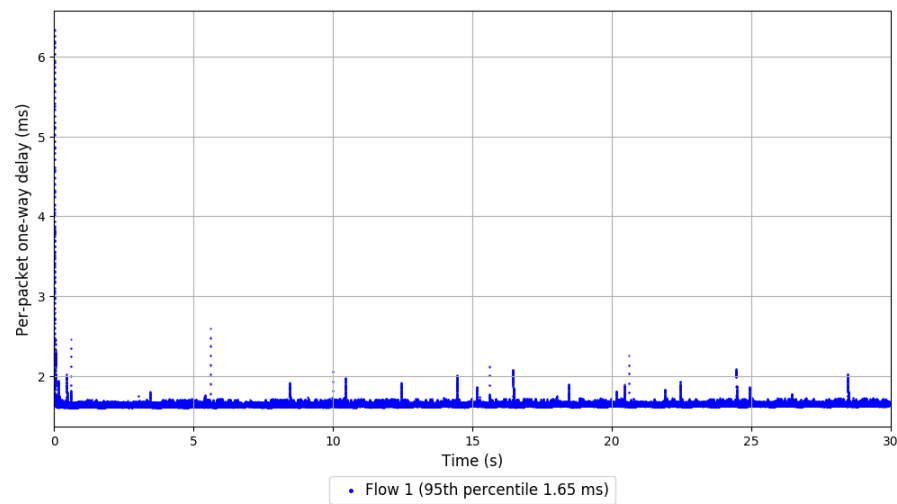
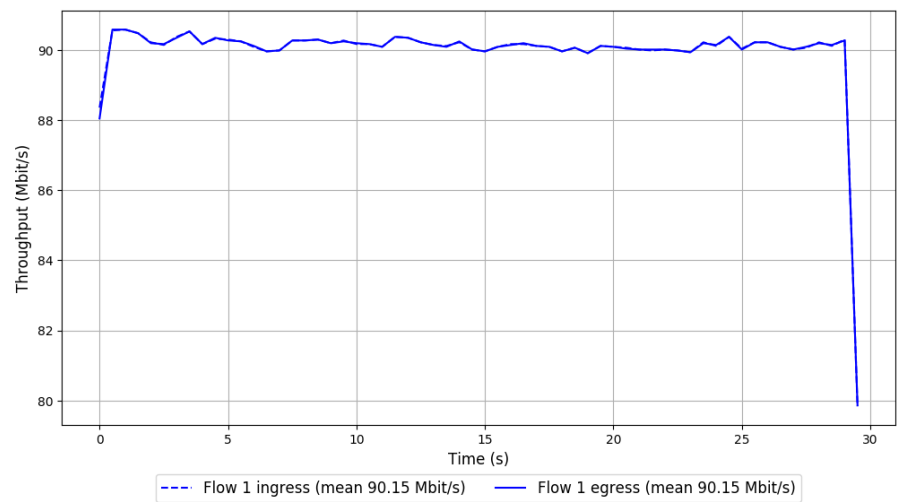
-- Flow 1:

Average throughput: 90.15 Mbit/s

95th percentile per-packet one-way delay: 1.650 ms

Loss rate: 0.01%

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



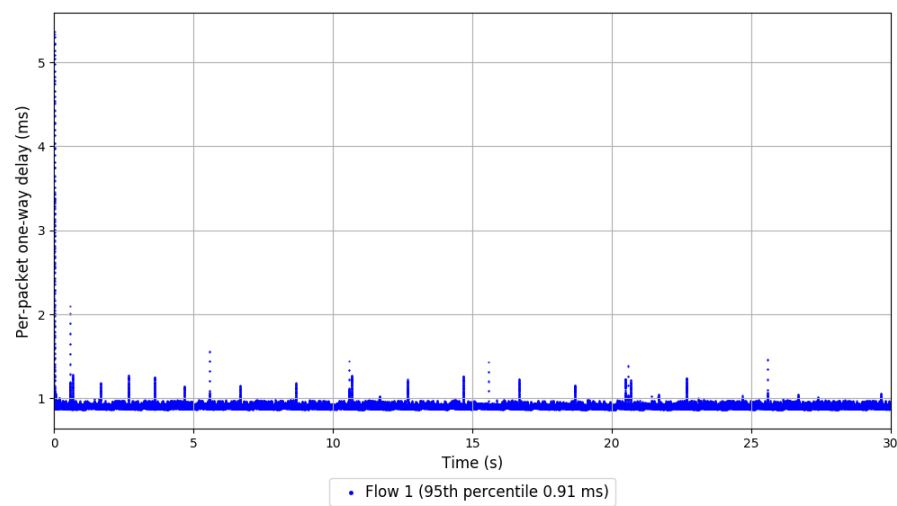
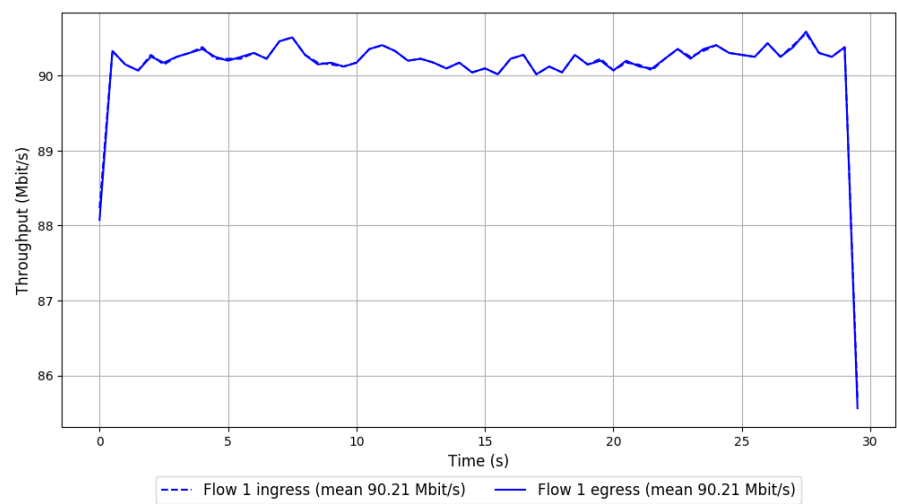
Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 02:45:18  
End at: 2018-04-17 02:45:48  
Local clock offset: -5.665 ms  
Remote clock offset: -6.138 ms

# Below is generated by plot.py at 2018-04-17 07:59:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.21 Mbit/s  
95th percentile per-packet one-way delay: 0.910 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.21 Mbit/s  
95th percentile per-packet one-way delay: 0.910 ms  
Loss rate: 0.01%



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

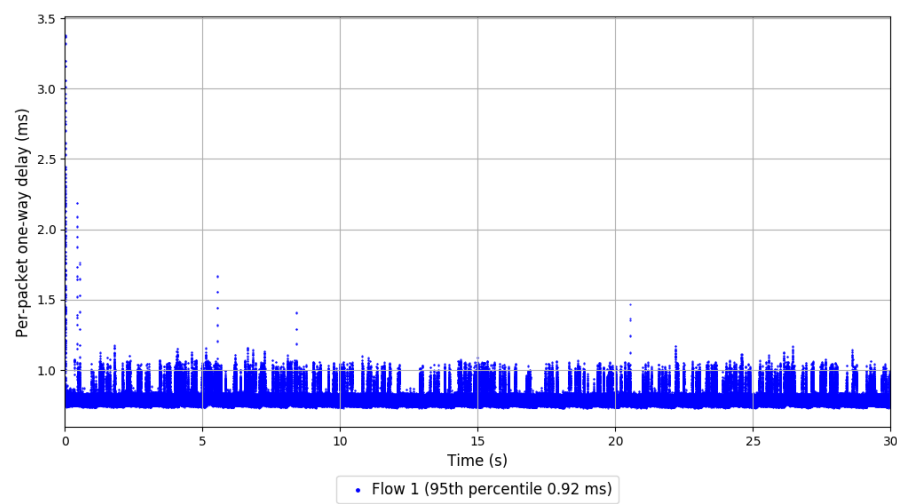
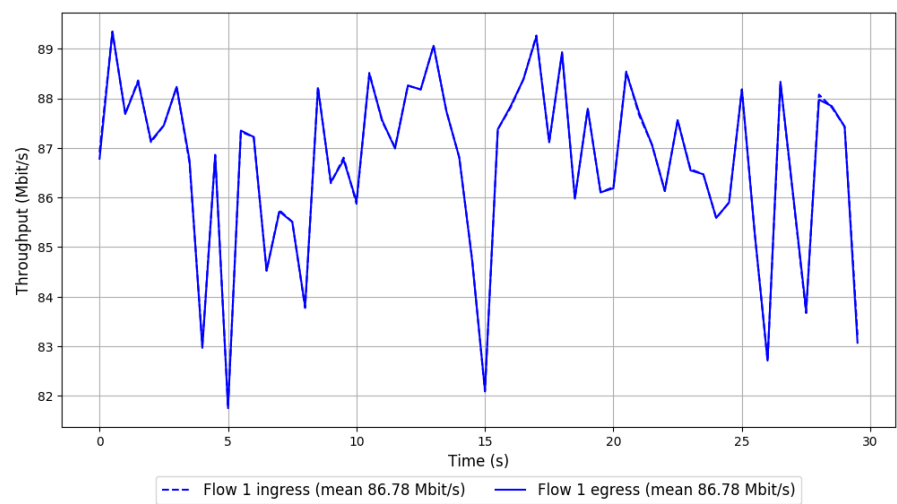


Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 03:04:20  
End at: 2018-04-17 03:04:50  
Local clock offset: -5.632 ms  
Remote clock offset: -6.549 ms

# Below is generated by plot.py at 2018-04-17 07:59:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.78 Mbit/s  
95th percentile per-packet one-way delay: 0.921 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 86.78 Mbit/s  
95th percentile per-packet one-way delay: 0.921 ms  
Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 03:23:26

End at: 2018-04-17 03:23:56

Local clock offset: -5.806 ms

Remote clock offset: -6.57 ms

# Below is generated by plot.py at 2018-04-17 07:59:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 0.754 ms

Loss rate: 0.01%

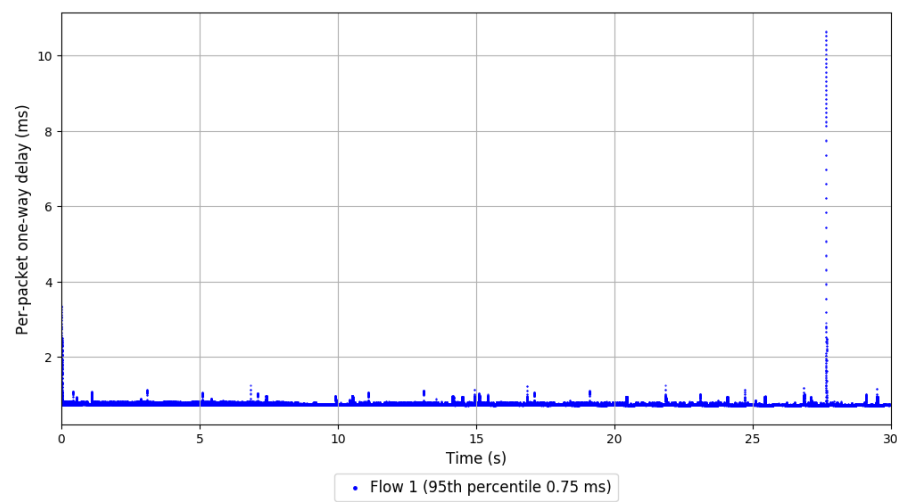
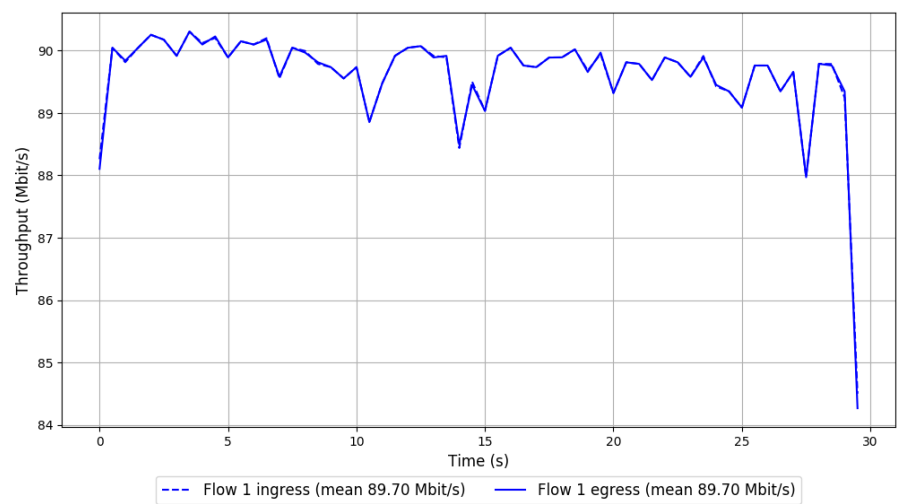
-- Flow 1:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 0.754 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 03:42:31

End at: 2018-04-17 03:43:01

Local clock offset: -6.51 ms

Remote clock offset: -7.072 ms

# Below is generated by plot.py at 2018-04-17 07:59:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 0.203 ms

Loss rate: 0.01%

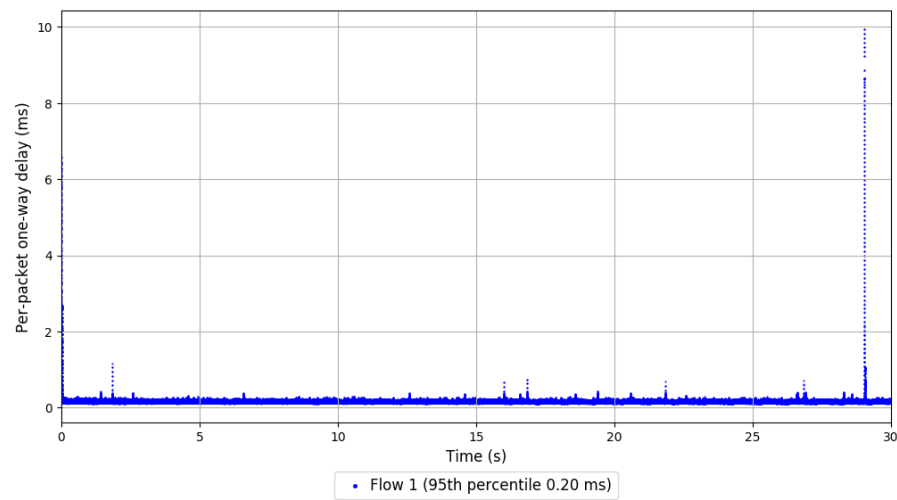
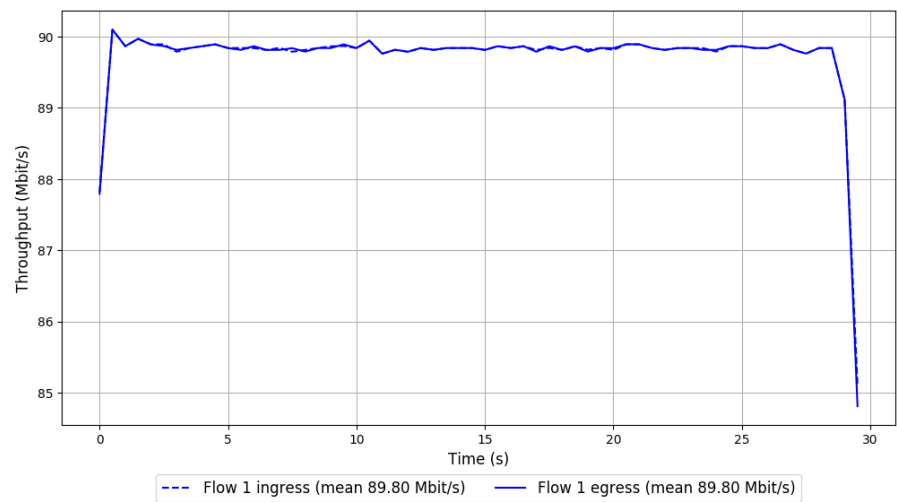
-- Flow 1:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 0.203 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 04:01:33

End at: 2018-04-17 04:02:03

Local clock offset: -5.797 ms

Remote clock offset: -7.148 ms

# Below is generated by plot.py at 2018-04-17 07:59:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.01%

-- Flow 1:

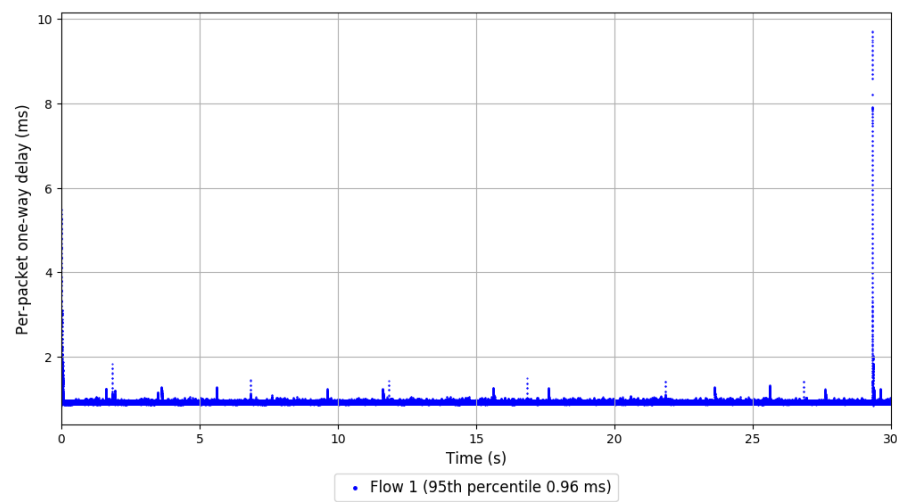
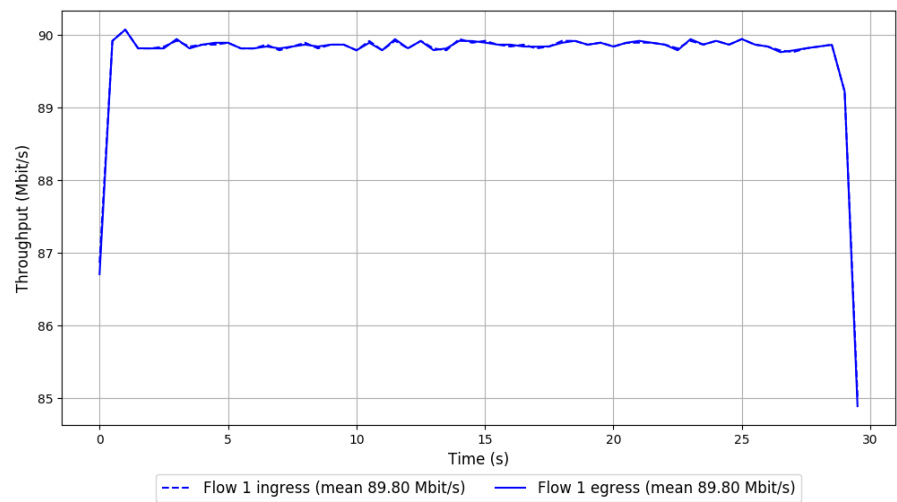
Average throughput: 89.80 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.01%



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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 04:20:39

End at: 2018-04-17 04:21:09

Local clock offset: -5.79 ms

Remote clock offset: -6.973 ms

# Below is generated by plot.py at 2018-04-17 08:01:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 0.860 ms

Loss rate: 0.01%

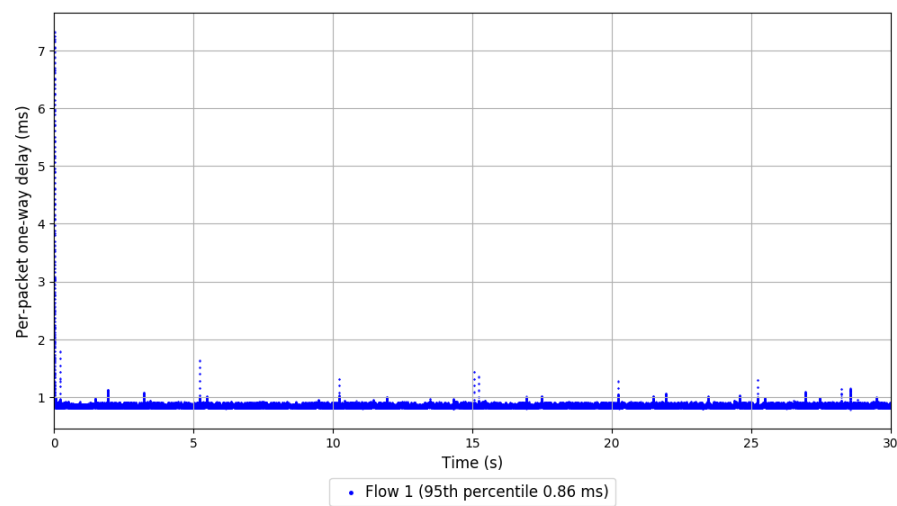
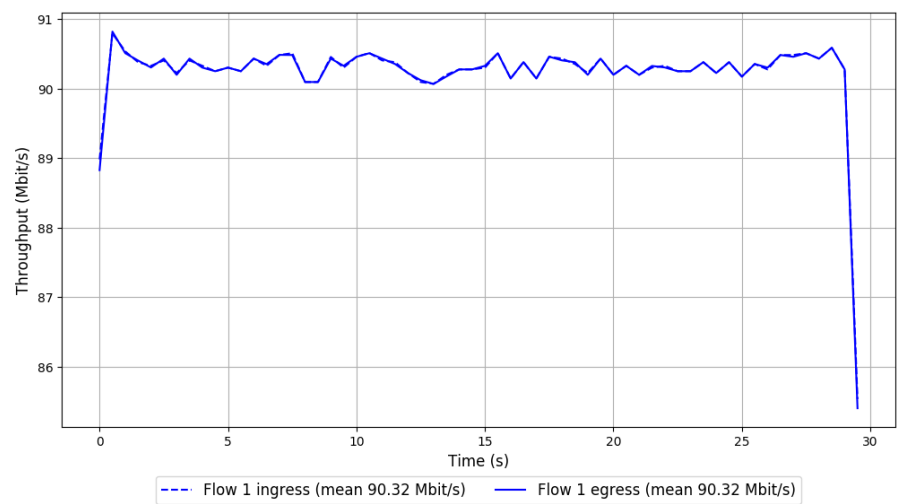
-- Flow 1:

Average throughput: 90.32 Mbit/s

95th percentile per-packet one-way delay: 0.860 ms

Loss rate: 0.01%

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

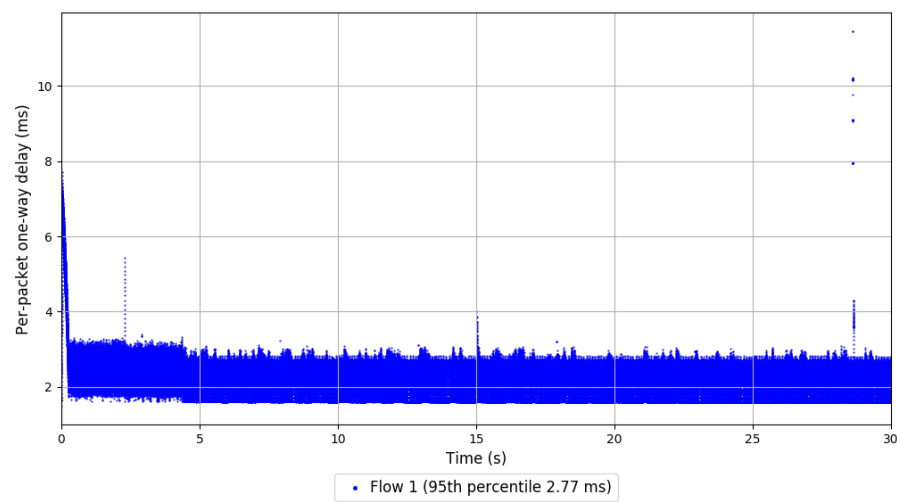
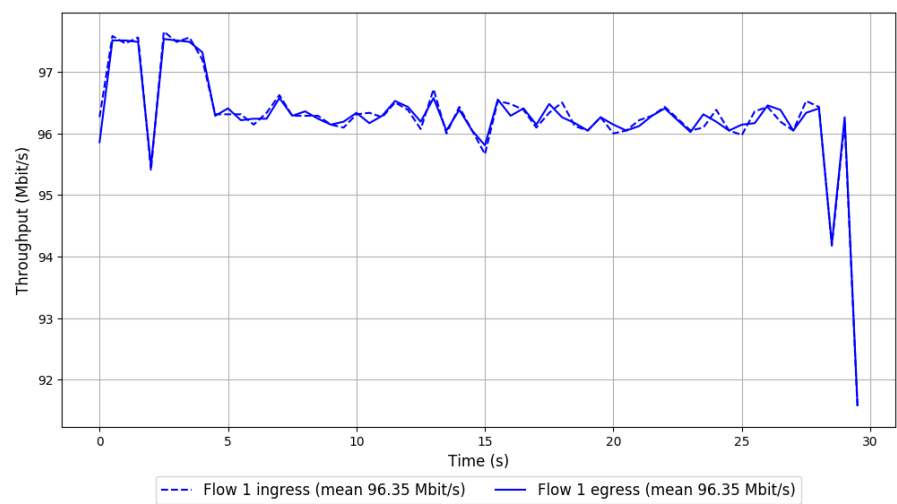


Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 01:40:29  
End at: 2018-04-17 01:40:59  
Local clock offset: -4.874 ms  
Remote clock offset: -6.532 ms

# Below is generated by plot.py at 2018-04-17 08:01:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.35 Mbit/s  
95th percentile per-packet one-way delay: 2.767 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.35 Mbit/s  
95th percentile per-packet one-way delay: 2.767 ms  
Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link

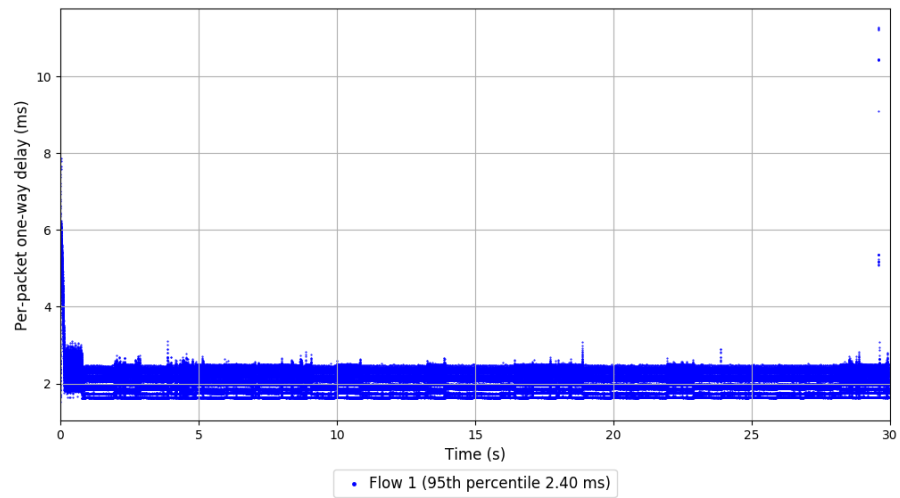
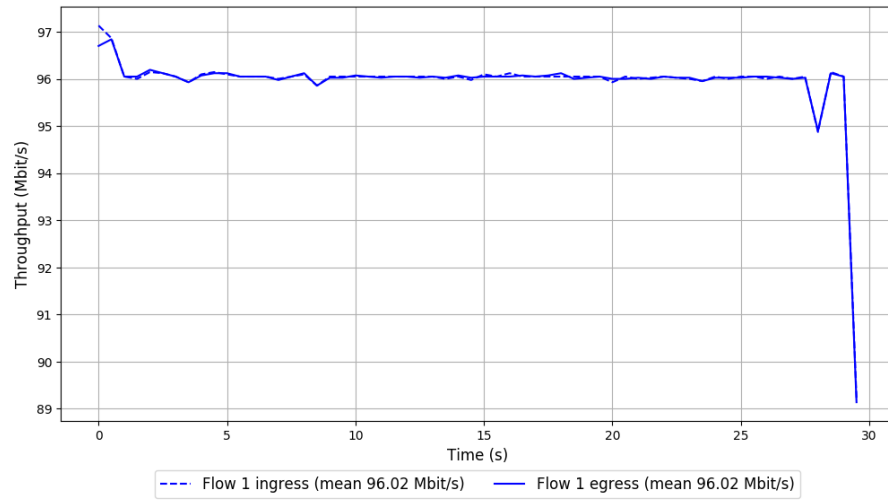


Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 01:59:25  
End at: 2018-04-17 01:59:55  
Local clock offset: -4.933 ms  
Remote clock offset: -6.896 ms

# Below is generated by plot.py at 2018-04-17 08:01:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 2.402 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 2.402 ms  
Loss rate: 0.01%

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



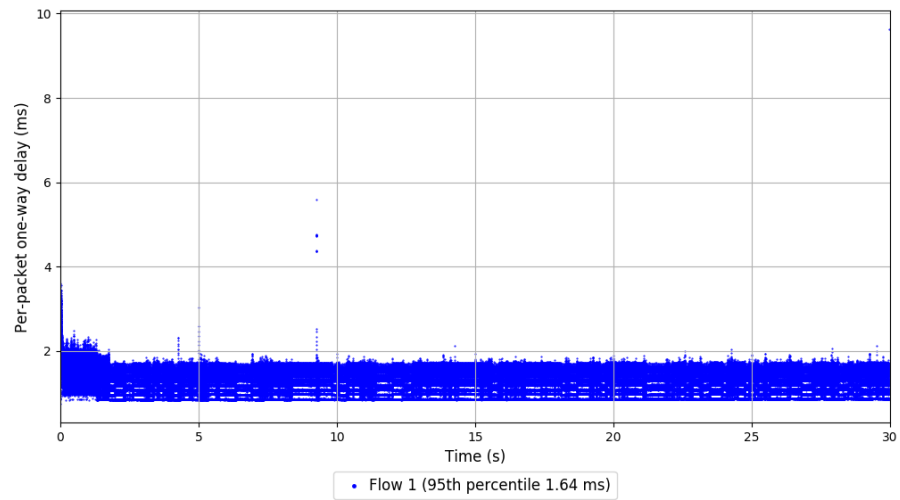
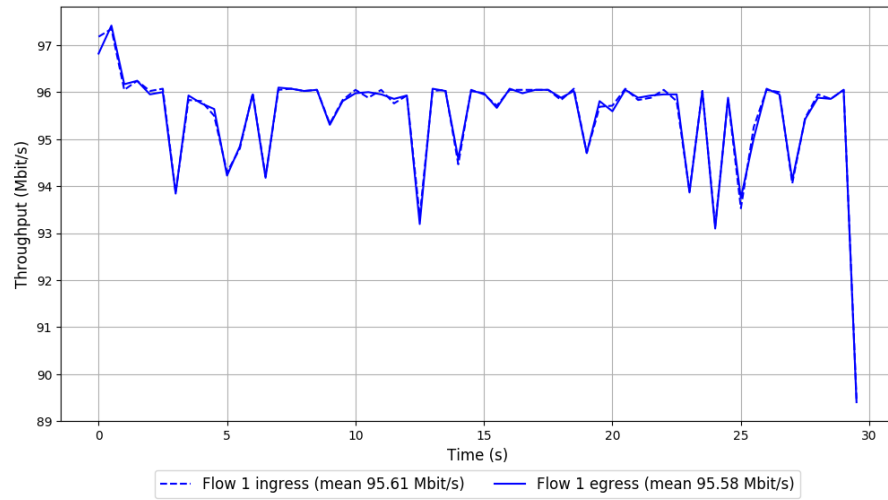
Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 02:18:27  
End at: 2018-04-17 02:18:57  
Local clock offset: -5.967 ms  
Remote clock offset: -6.673 ms

# Below is generated by plot.py at 2018-04-17 08:01:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.58 Mbit/s  
95th percentile per-packet one-way delay: 1.642 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 95.58 Mbit/s  
95th percentile per-packet one-way delay: 1.642 ms  
Loss rate: 0.01%



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

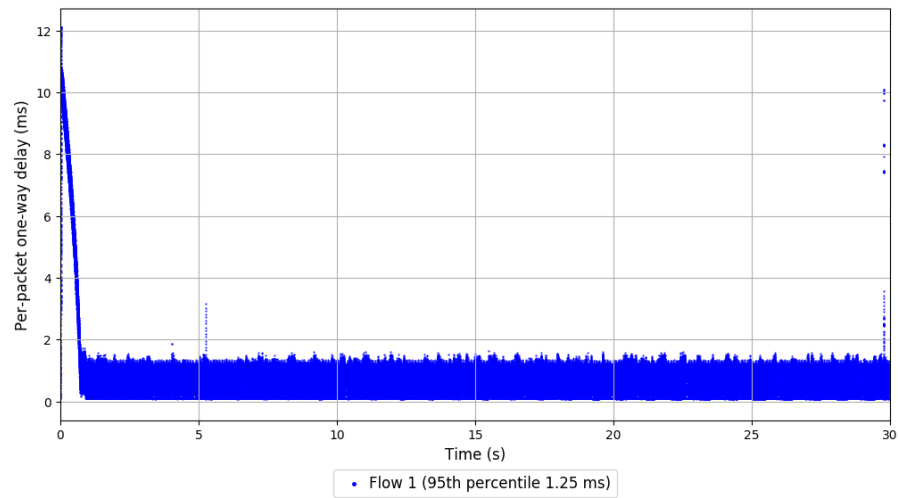
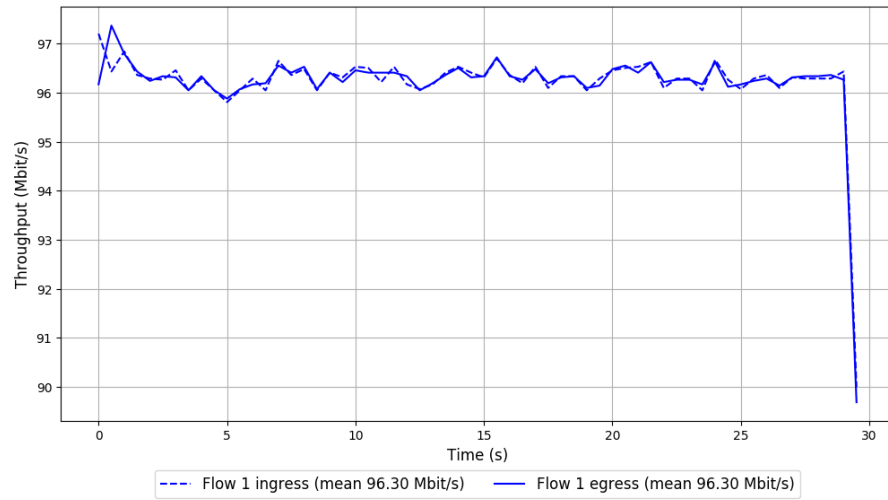


Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 02:37:29  
End at: 2018-04-17 02:37:59  
Local clock offset: -6.614 ms  
Remote clock offset: -6.243 ms

# Below is generated by plot.py at 2018-04-17 08:01:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 1.245 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.30 Mbit/s  
95th percentile per-packet one-way delay: 1.245 ms  
Loss rate: 0.01%

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

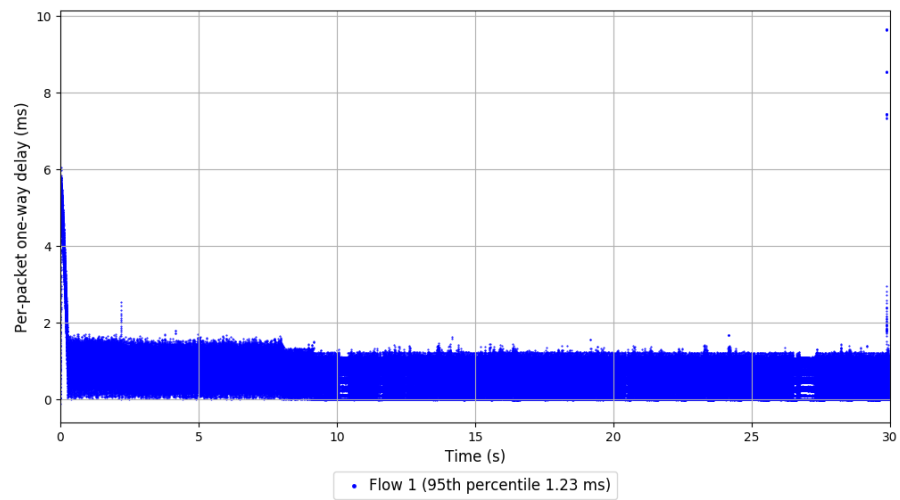
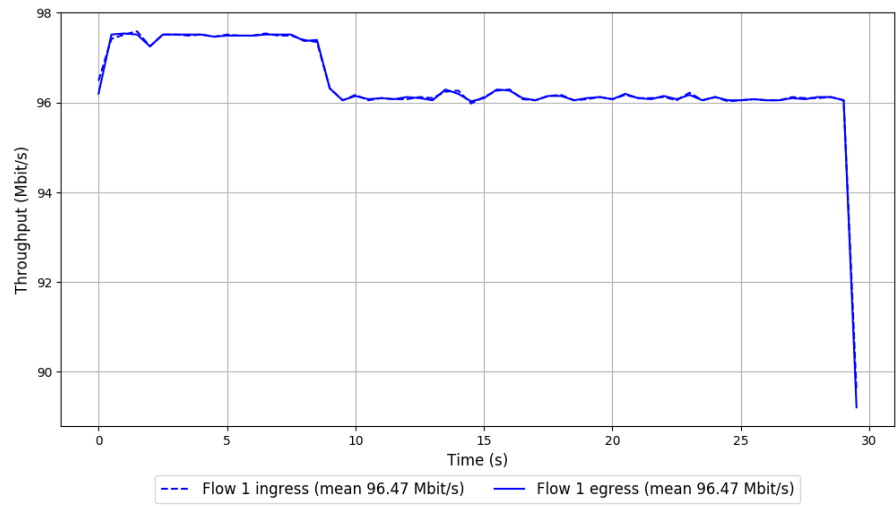


Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 02:56:31  
End at: 2018-04-17 02:57:01  
Local clock offset: -6.42 ms  
Remote clock offset: -6.462 ms

# Below is generated by plot.py at 2018-04-17 08:01:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.47 Mbit/s  
95th percentile per-packet one-way delay: 1.231 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.47 Mbit/s  
95th percentile per-packet one-way delay: 1.231 ms  
Loss rate: 0.01%

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

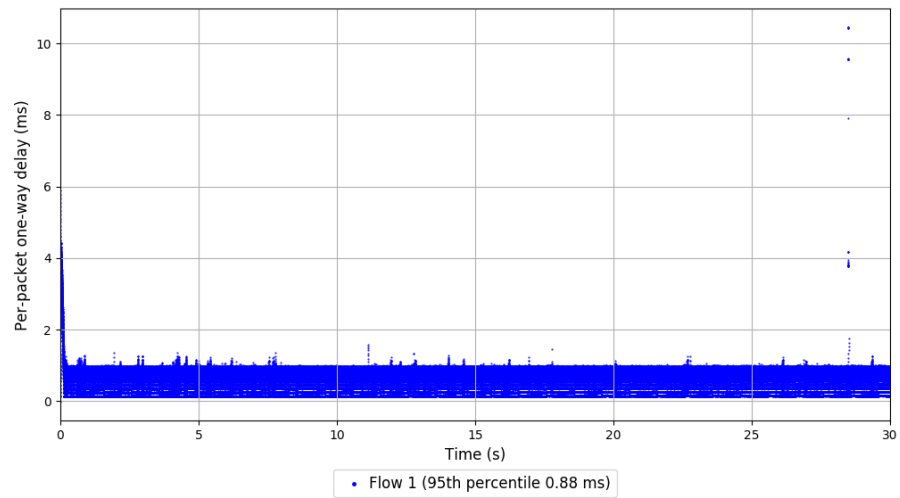
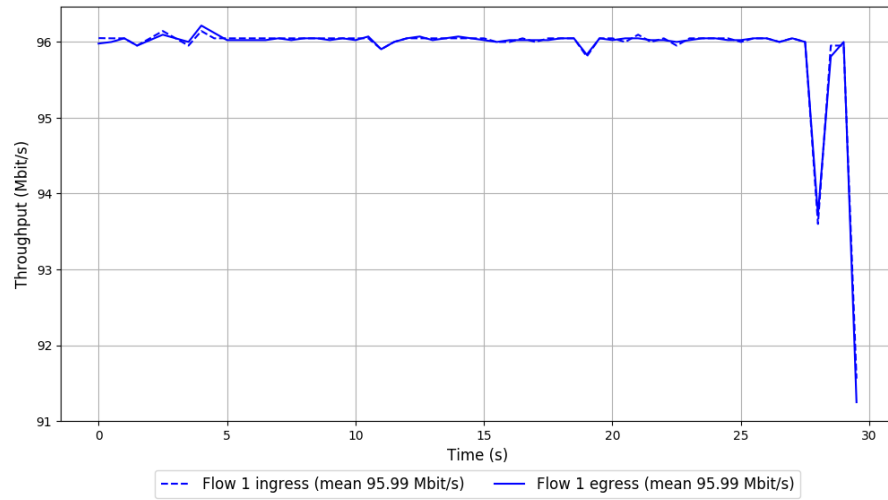


Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 03:15:34  
End at: 2018-04-17 03:16:04  
Local clock offset: -6.392 ms  
Remote clock offset: -6.513 ms

# Below is generated by plot.py at 2018-04-17 08:01:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.99 Mbit/s  
95th percentile per-packet one-way delay: 0.883 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 95.99 Mbit/s  
95th percentile per-packet one-way delay: 0.883 ms  
Loss rate: 0.01%

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



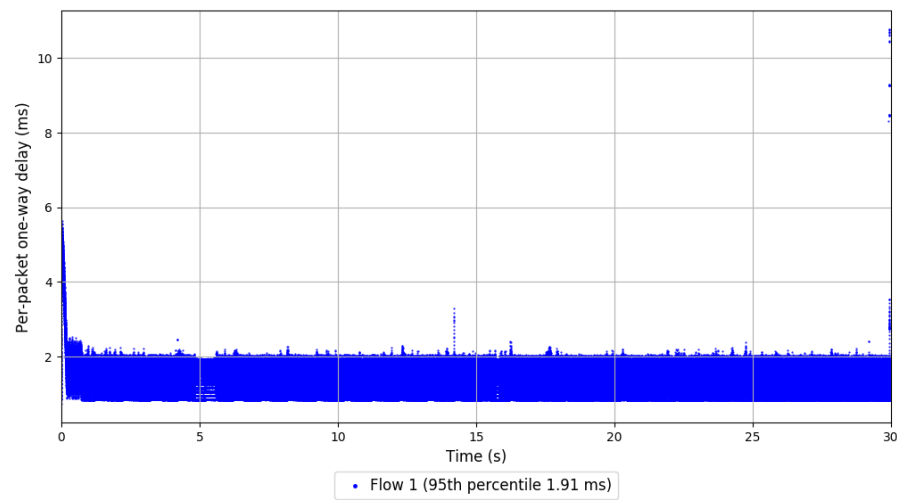
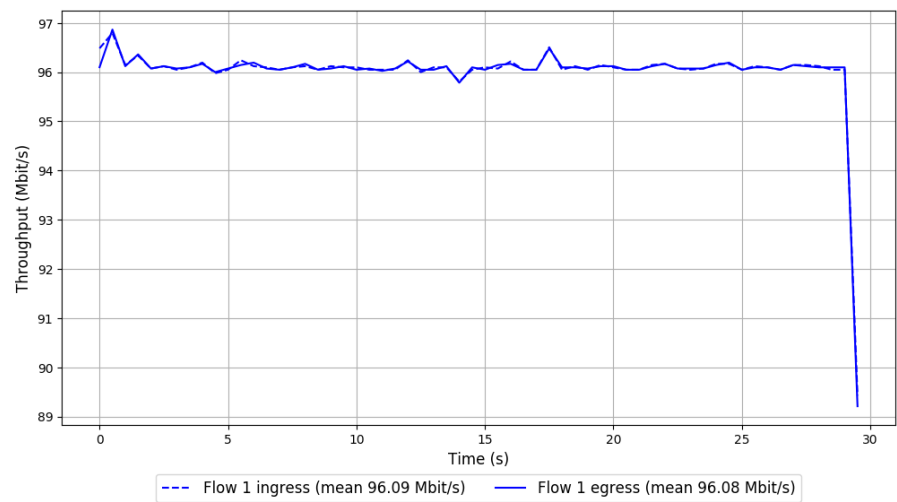
Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 03:34:39  
End at: 2018-04-17 03:35:10  
Local clock offset: -5.725 ms  
Remote clock offset: -6.906 ms

# Below is generated by plot.py at 2018-04-17 08:01:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 1.914 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.08 Mbit/s  
95th percentile per-packet one-way delay: 1.914 ms  
Loss rate: 0.01%



Run 7: Report of TCP Vegas — Data Link

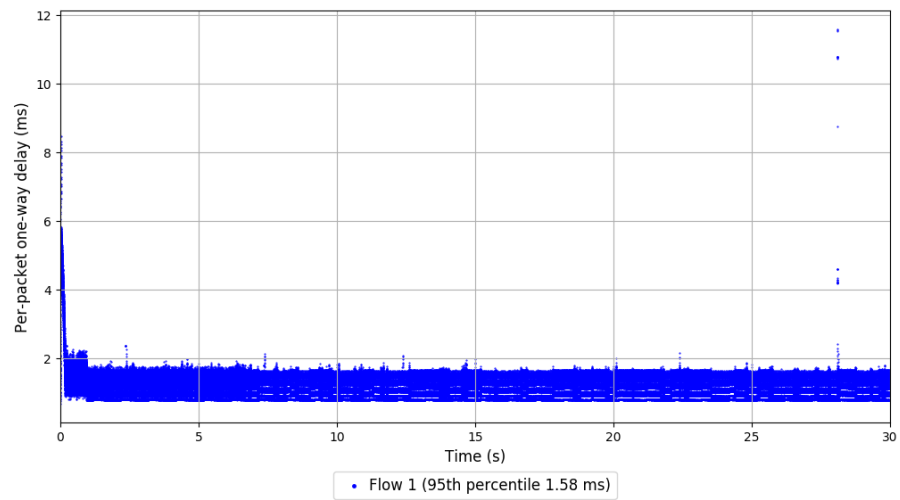
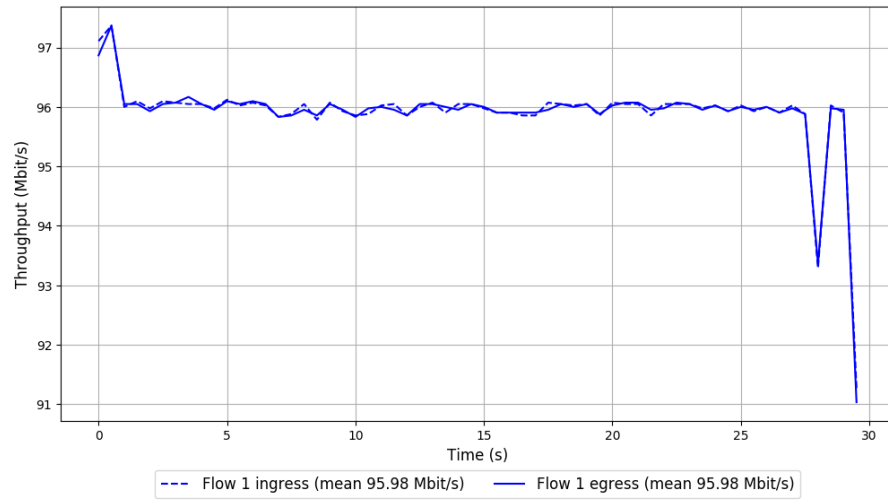


Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 03:53:44  
End at: 2018-04-17 03:54:14  
Local clock offset: -5.832 ms  
Remote clock offset: -7.116 ms

# Below is generated by plot.py at 2018-04-17 08:02:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.98 Mbit/s  
95th percentile per-packet one-way delay: 1.577 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 95.98 Mbit/s  
95th percentile per-packet one-way delay: 1.577 ms  
Loss rate: 0.01%

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

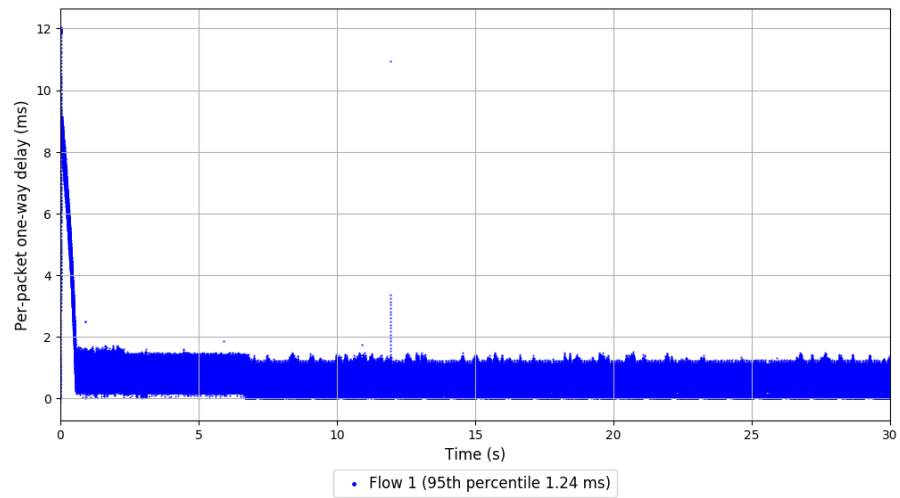
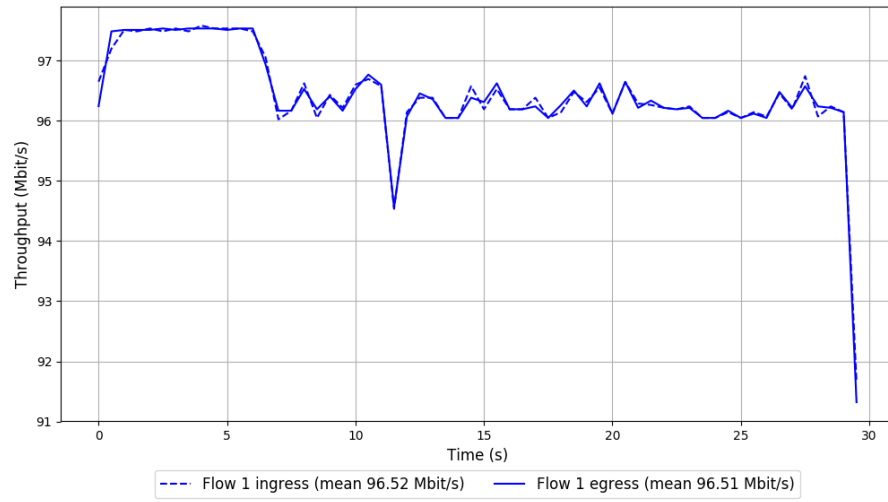


Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 04:12:47  
End at: 2018-04-17 04:13:17  
Local clock offset: -6.614 ms  
Remote clock offset: -7.032 ms

# Below is generated by plot.py at 2018-04-17 08:02:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.51 Mbit/s  
95th percentile per-packet one-way delay: 1.239 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.51 Mbit/s  
95th percentile per-packet one-way delay: 1.239 ms  
Loss rate: 0.01%

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

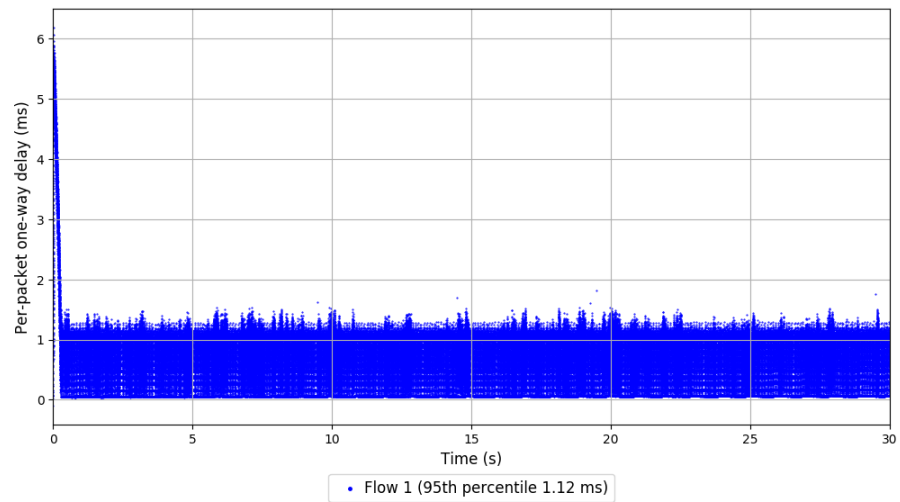
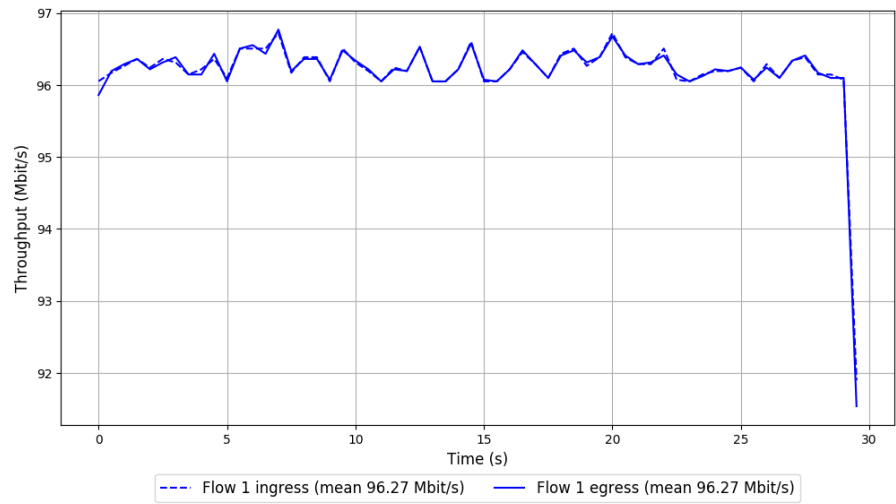


Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 04:31:50  
End at: 2018-04-17 04:32:20  
Local clock offset: -6.629 ms  
Remote clock offset: -6.982 ms

# Below is generated by plot.py at 2018-04-17 08:02:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 1.124 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 96.27 Mbit/s  
95th percentile per-packet one-way delay: 1.124 ms  
Loss rate: 0.01%

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



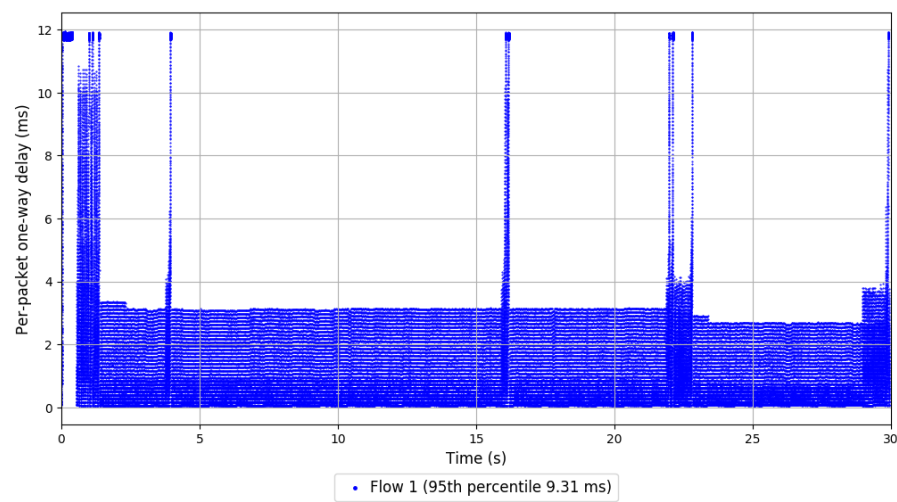
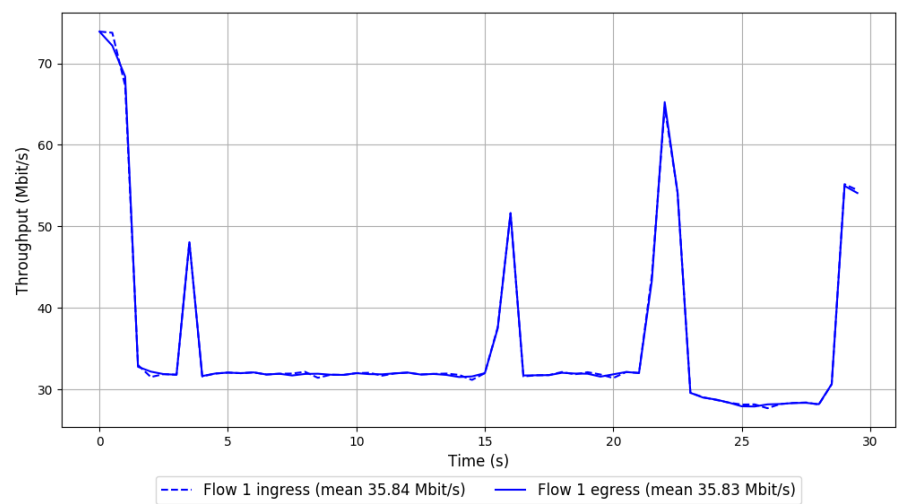
Run 1: Statistics of Verus

Start at: 2018-04-17 01:32:38  
End at: 2018-04-17 01:33:08  
Local clock offset: -6.388 ms  
Remote clock offset: -6.564 ms

# Below is generated by plot.py at 2018-04-17 08:02:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 35.83 Mbit/s  
95th percentile per-packet one-way delay: 9.312 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 35.83 Mbit/s  
95th percentile per-packet one-way delay: 9.312 ms  
Loss rate: 0.03%



Run 1: Report of Verus — Data Link

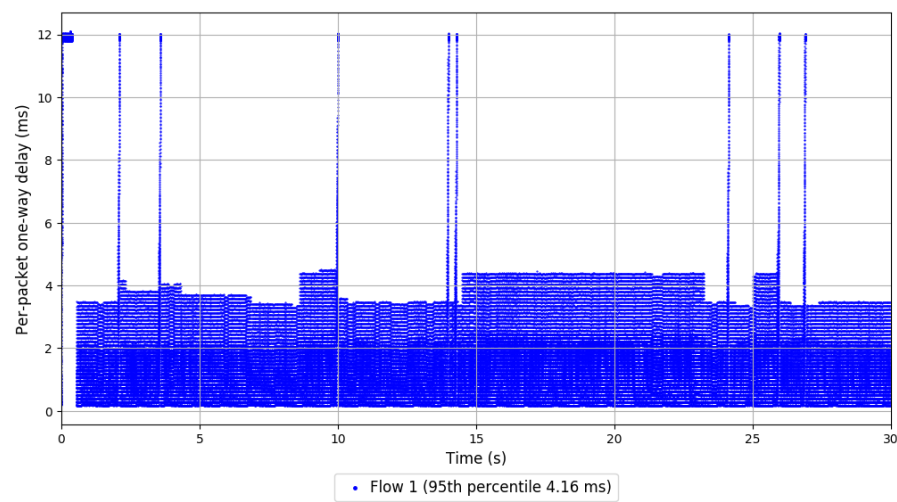
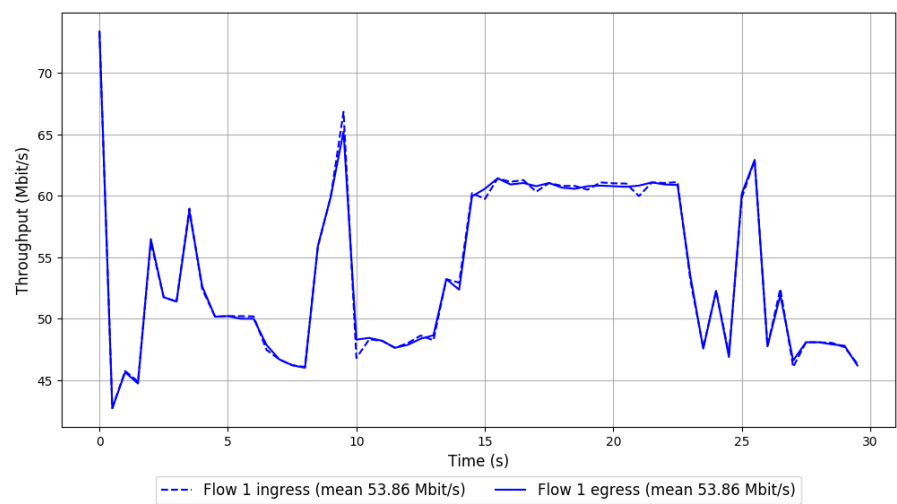


Run 2: Statistics of Verus

Start at: 2018-04-17 01:51:34  
End at: 2018-04-17 01:52:04  
Local clock offset: -6.412 ms  
Remote clock offset: -6.903 ms

# Below is generated by plot.py at 2018-04-17 08:02:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.86 Mbit/s  
95th percentile per-packet one-way delay: 4.159 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 53.86 Mbit/s  
95th percentile per-packet one-way delay: 4.159 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

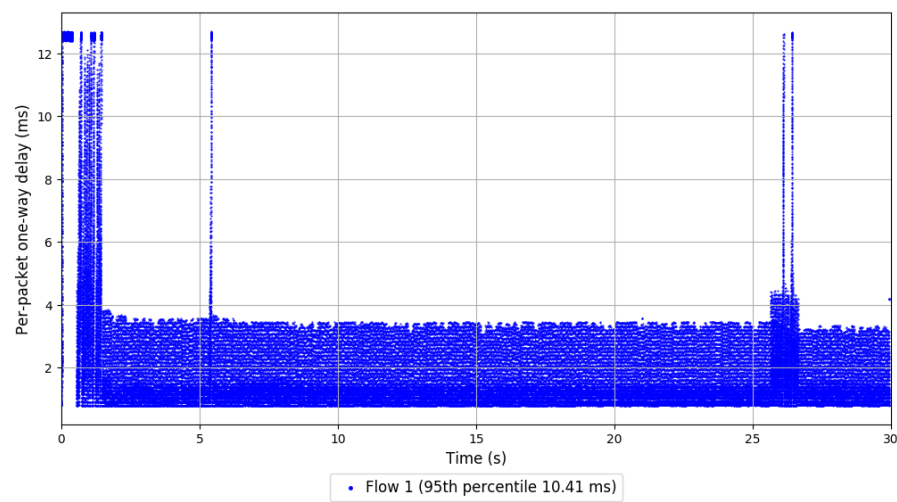
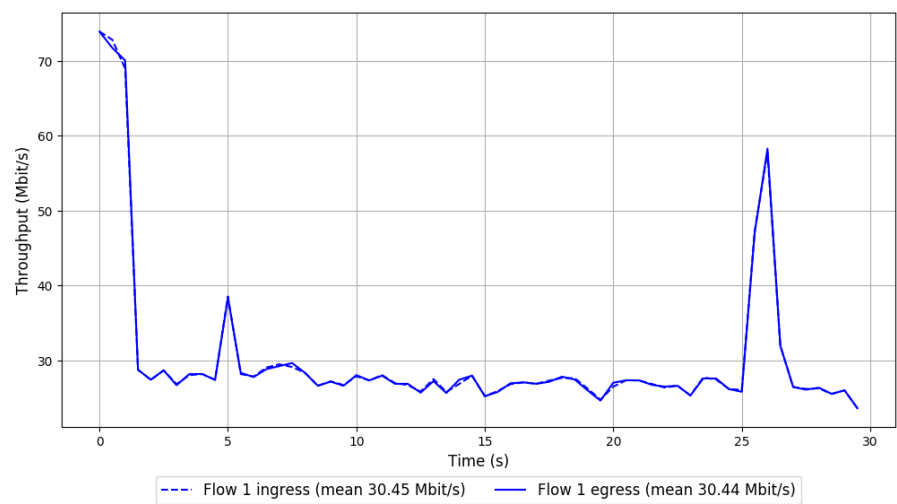


Run 3: Statistics of Verus

Start at: 2018-04-17 02:10:36  
End at: 2018-04-17 02:11:06  
Local clock offset: -5.94 ms  
Remote clock offset: -6.912 ms

# Below is generated by plot.py at 2018-04-17 08:02:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 30.44 Mbit/s  
95th percentile per-packet one-way delay: 10.408 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 30.44 Mbit/s  
95th percentile per-packet one-way delay: 10.408 ms  
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

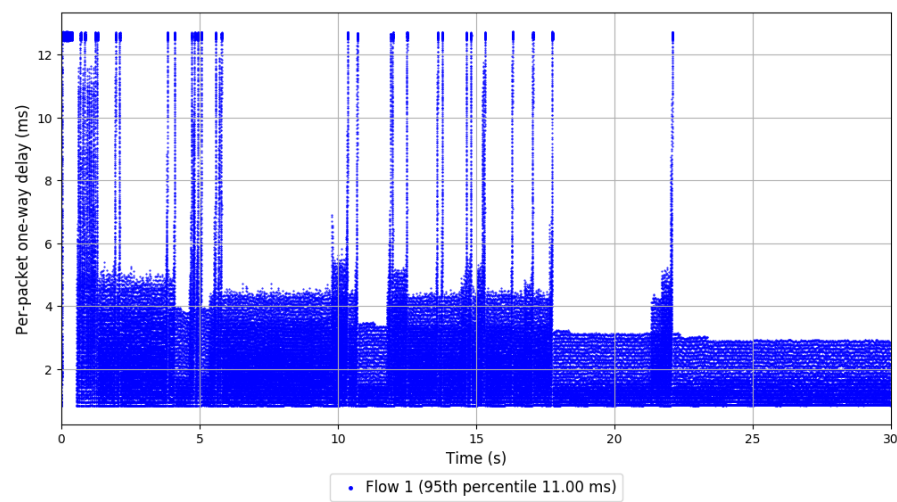
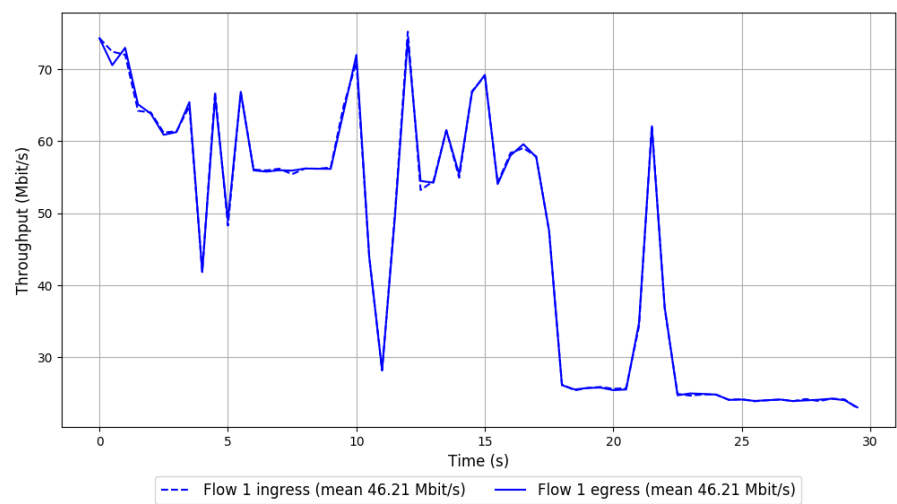


Run 4: Statistics of Verus

Start at: 2018-04-17 02:29:37  
End at: 2018-04-17 02:30:07  
Local clock offset: -6.045 ms  
Remote clock offset: -6.401 ms

# Below is generated by plot.py at 2018-04-17 08:02:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.21 Mbit/s  
95th percentile per-packet one-way delay: 11.003 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 46.21 Mbit/s  
95th percentile per-packet one-way delay: 11.003 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link



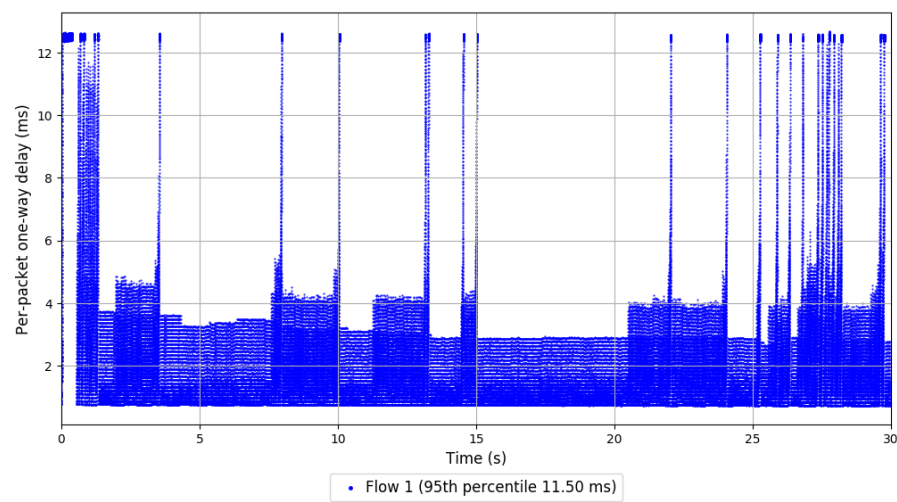
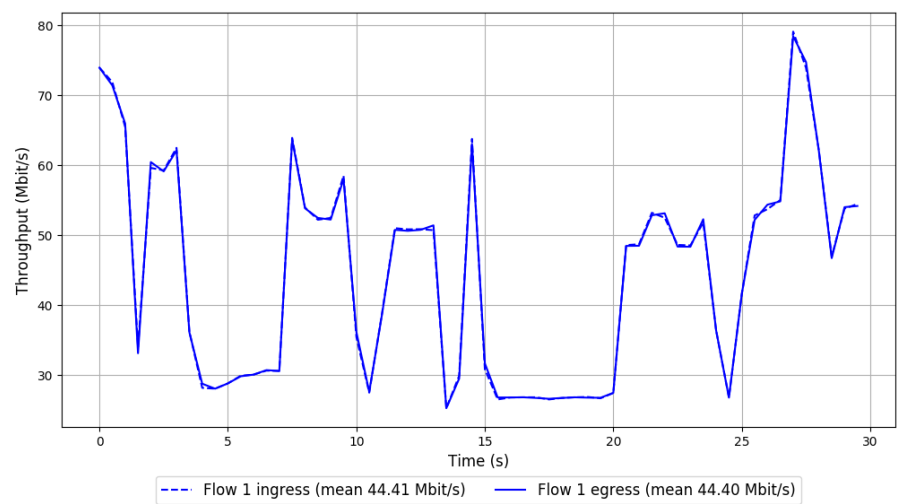
Run 5: Statistics of Verus

Start at: 2018-04-17 02:48:39  
End at: 2018-04-17 02:49:09  
Local clock offset: -5.712 ms  
Remote clock offset: -6.143 ms

# Below is generated by plot.py at 2018-04-17 08:02:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 44.40 Mbit/s  
95th percentile per-packet one-way delay: 11.498 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 44.40 Mbit/s  
95th percentile per-packet one-way delay: 11.498 ms  
Loss rate: 0.01%



Run 5: Report of Verus — Data Link

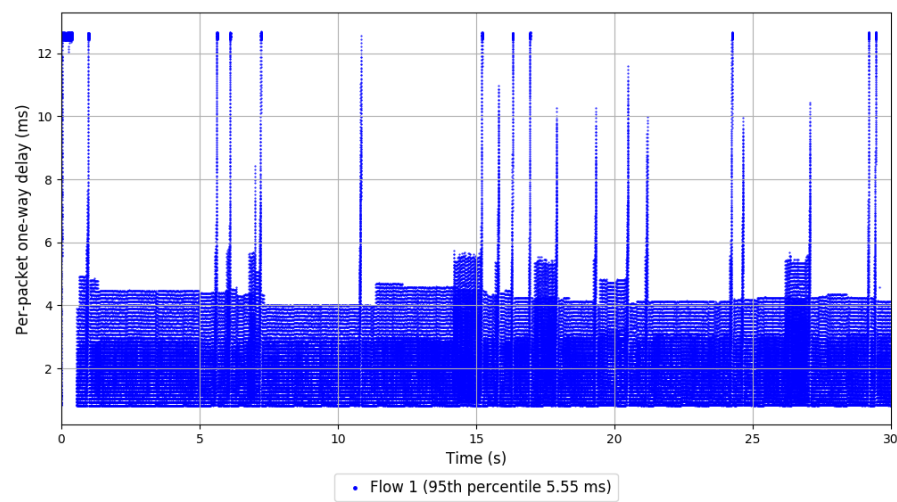
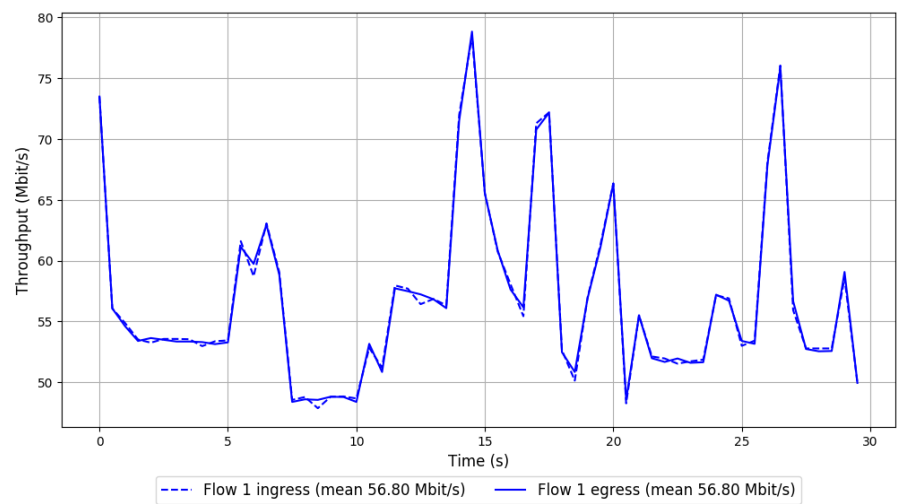


Run 6: Statistics of Verus

Start at: 2018-04-17 03:07:41  
End at: 2018-04-17 03:08:11  
Local clock offset: -5.588 ms  
Remote clock offset: -6.544 ms

# Below is generated by plot.py at 2018-04-17 08:02:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 56.80 Mbit/s  
95th percentile per-packet one-way delay: 5.547 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.80 Mbit/s  
95th percentile per-packet one-way delay: 5.547 ms  
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

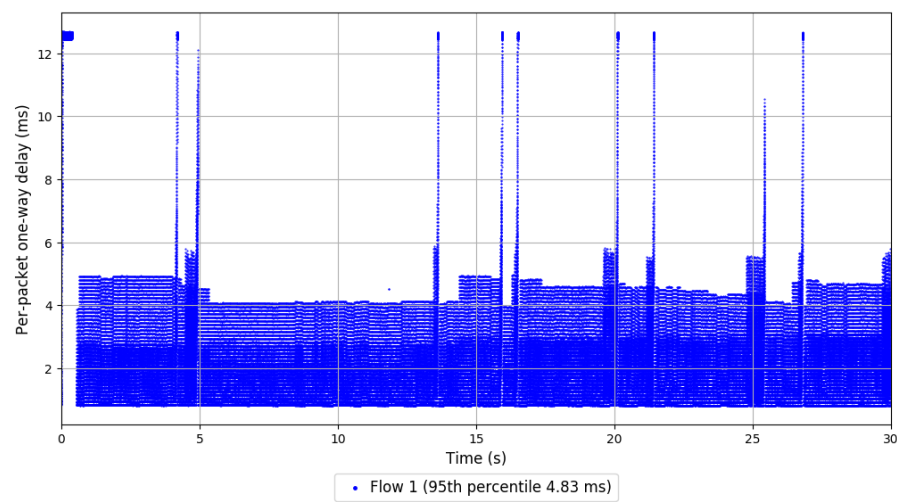
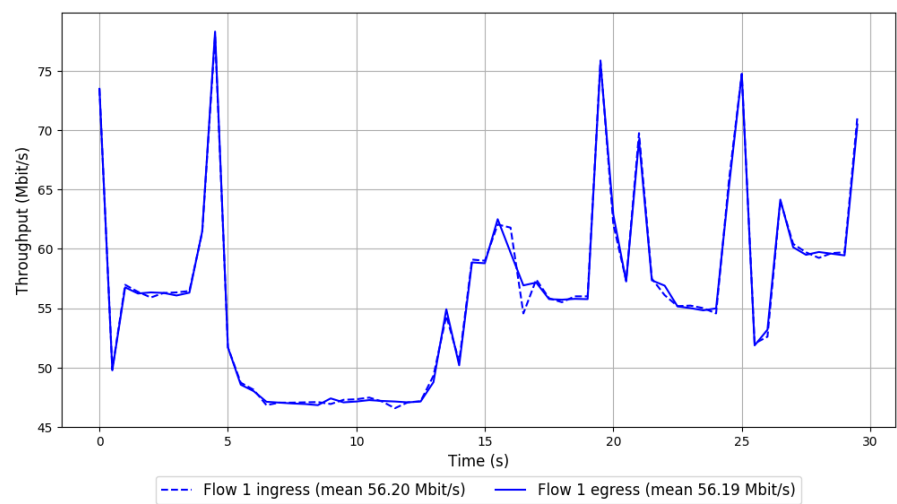


Run 7: Statistics of Verus

Start at: 2018-04-17 03:26:47  
End at: 2018-04-17 03:27:17  
Local clock offset: -5.731 ms  
Remote clock offset: -6.708 ms

# Below is generated by plot.py at 2018-04-17 08:02:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 56.19 Mbit/s  
95th percentile per-packet one-way delay: 4.829 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 56.19 Mbit/s  
95th percentile per-packet one-way delay: 4.829 ms  
Loss rate: 0.03%

Run 7: Report of Verus — Data Link

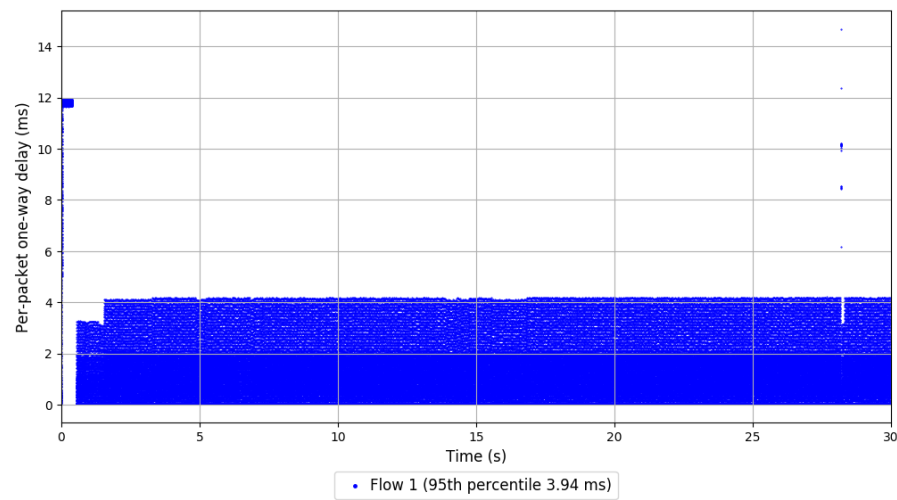
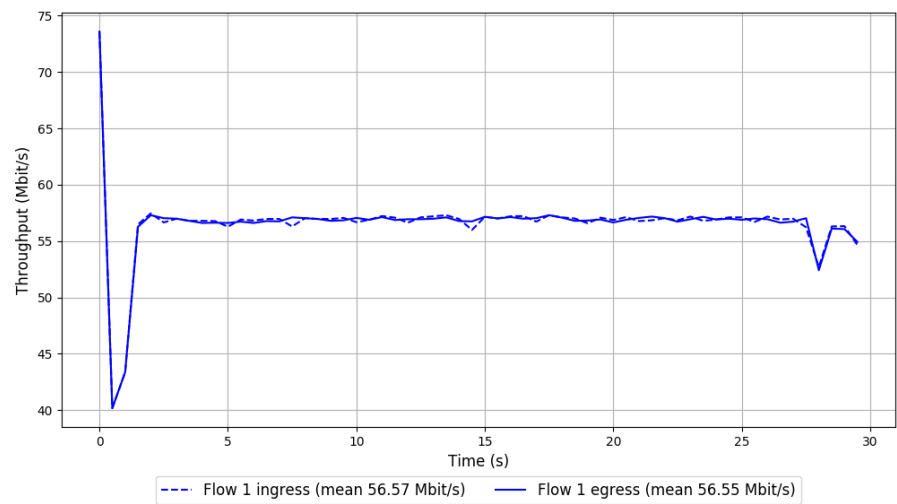


Run 8: Statistics of Verus

Start at: 2018-04-17 03:45:52  
End at: 2018-04-17 03:46:22  
Local clock offset: -6.546 ms  
Remote clock offset: -7.046 ms

# Below is generated by plot.py at 2018-04-17 08:02:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 56.55 Mbit/s  
95th percentile per-packet one-way delay: 3.935 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 56.55 Mbit/s  
95th percentile per-packet one-way delay: 3.935 ms  
Loss rate: 0.01%

Run 8: Report of Verus — Data Link



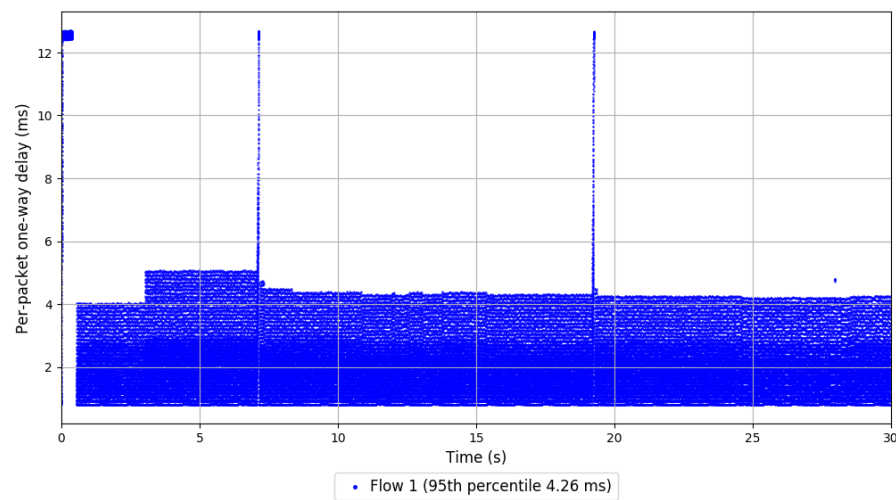
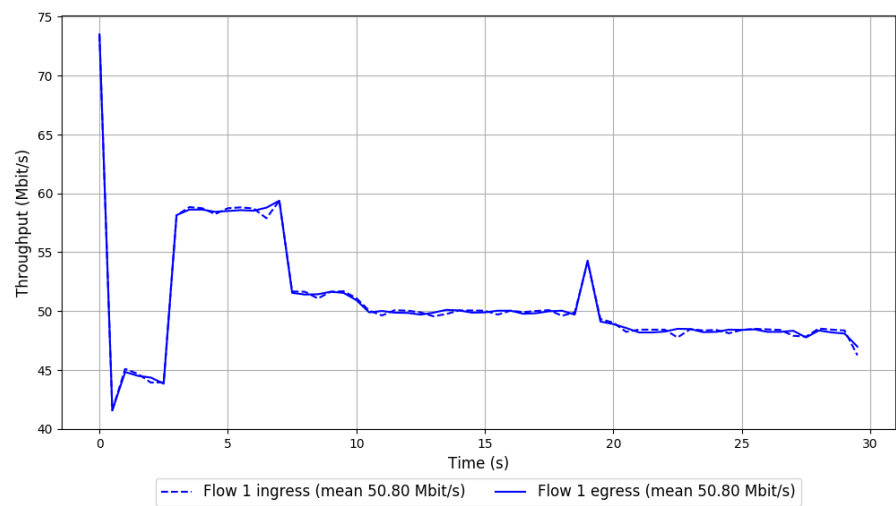
Run 9: Statistics of Verus

Start at: 2018-04-17 04:04:54  
End at: 2018-04-17 04:05:24  
Local clock offset: -5.843 ms  
Remote clock offset: -7.092 ms

# Below is generated by plot.py at 2018-04-17 08:02:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.80 Mbit/s  
95th percentile per-packet one-way delay: 4.263 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.80 Mbit/s  
95th percentile per-packet one-way delay: 4.263 ms  
Loss rate: 0.00%



Run 9: Report of Verus — Data Link

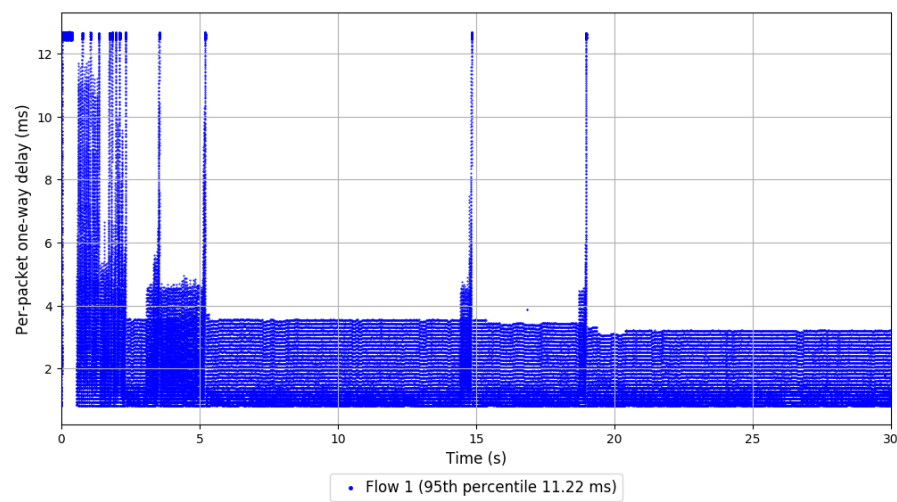
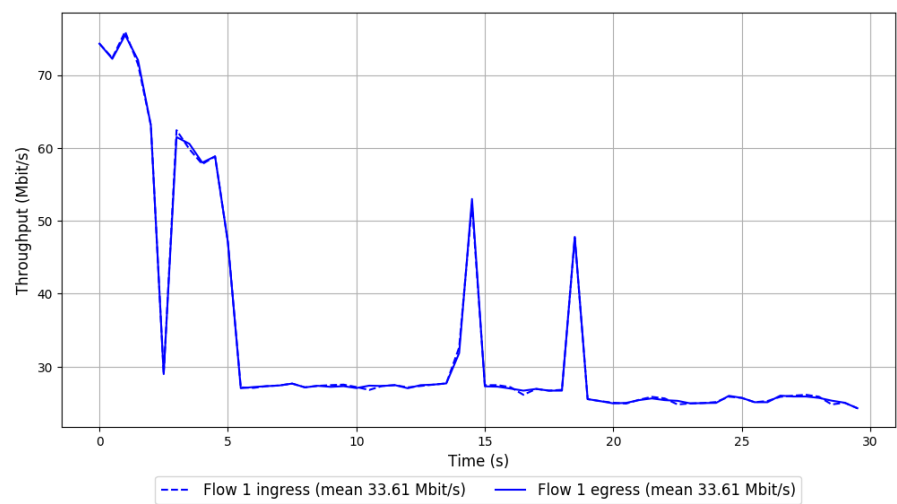


Run 10: Statistics of Verus

Start at: 2018-04-17 04:24:00  
End at: 2018-04-17 04:24:30  
Local clock offset: -5.839 ms  
Remote clock offset: -7.024 ms

# Below is generated by plot.py at 2018-04-17 08:02:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 33.61 Mbit/s  
95th percentile per-packet one-way delay: 11.218 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 33.61 Mbit/s  
95th percentile per-packet one-way delay: 11.218 ms  
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 01:25:54

End at: 2018-04-17 01:26:24

Local clock offset: -4.754 ms

Remote clock offset: -6.595 ms

# Below is generated by plot.py at 2018-04-17 08:05:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 3.727 ms

Loss rate: 0.01%

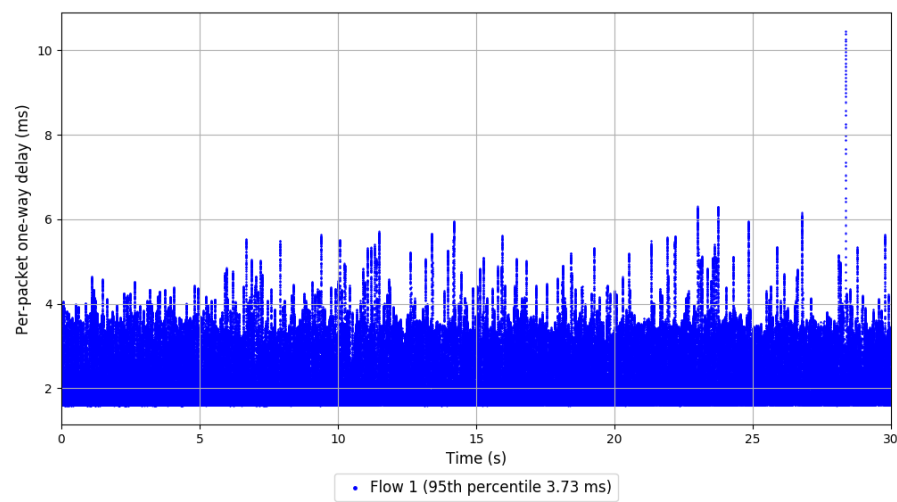
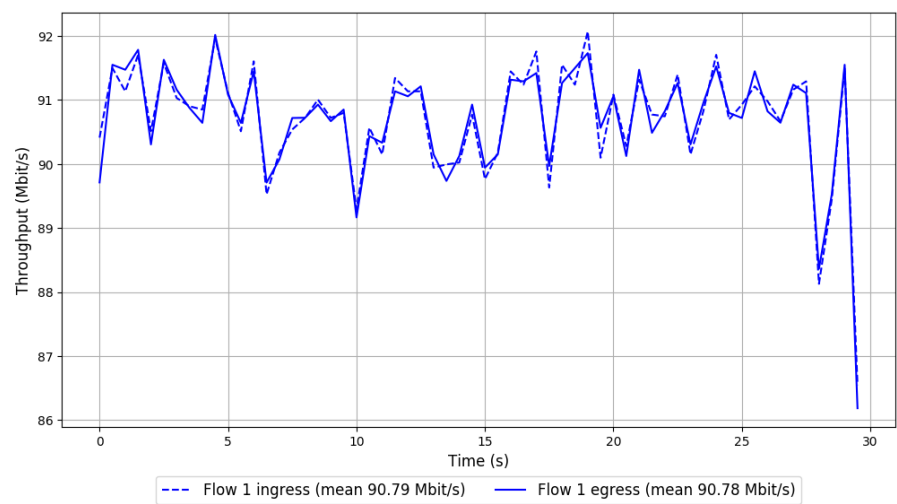
-- Flow 1:

Average throughput: 90.78 Mbit/s

95th percentile per-packet one-way delay: 3.727 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link

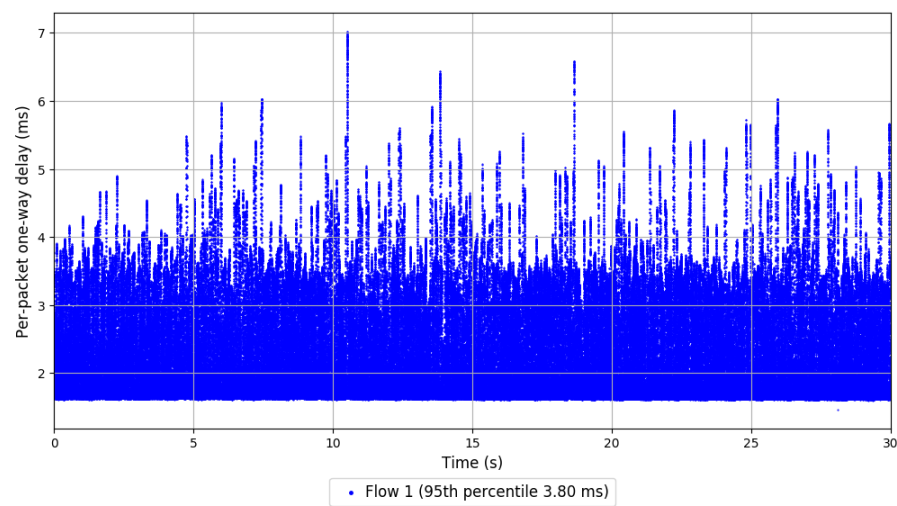
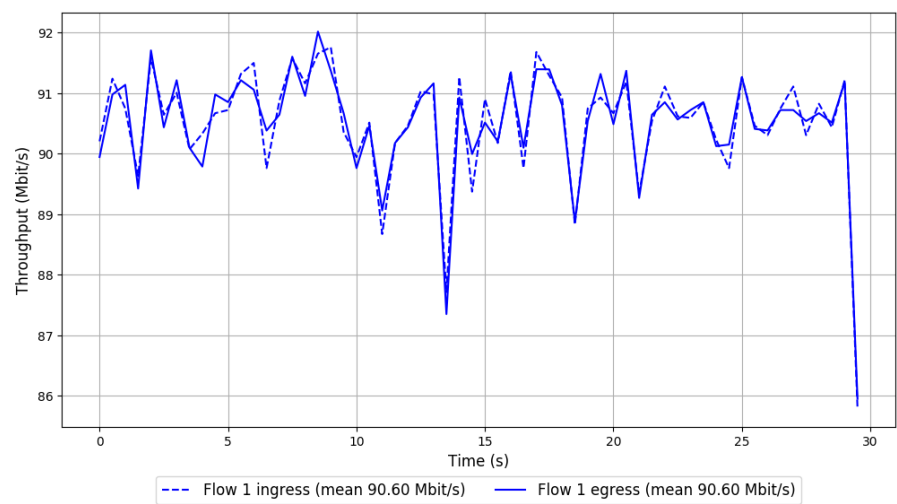


Run 2: Statistics of Copa

Start at: 2018-04-17 01:44:58  
End at: 2018-04-17 01:45:28  
Local clock offset: -4.911 ms  
Remote clock offset: -6.771 ms

# Below is generated by plot.py at 2018-04-17 08:05:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.60 Mbit/s  
95th percentile per-packet one-way delay: 3.803 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.60 Mbit/s  
95th percentile per-packet one-way delay: 3.803 ms  
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



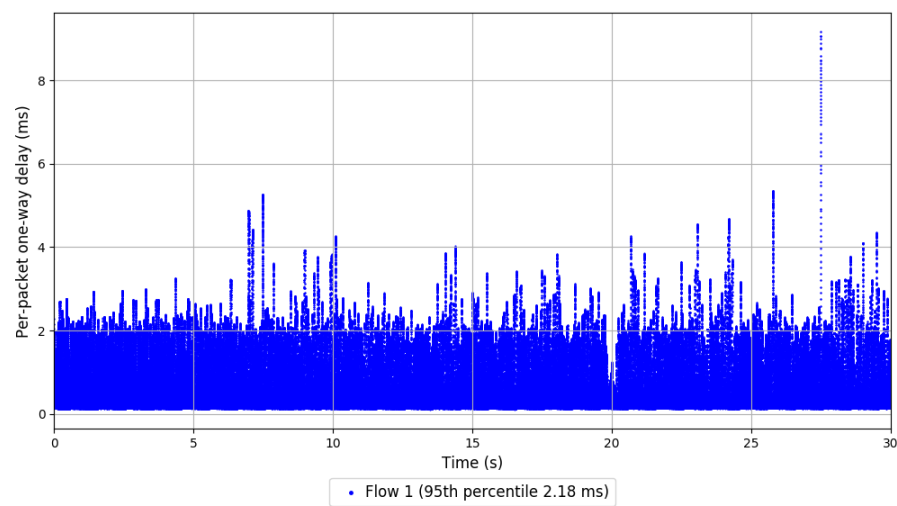
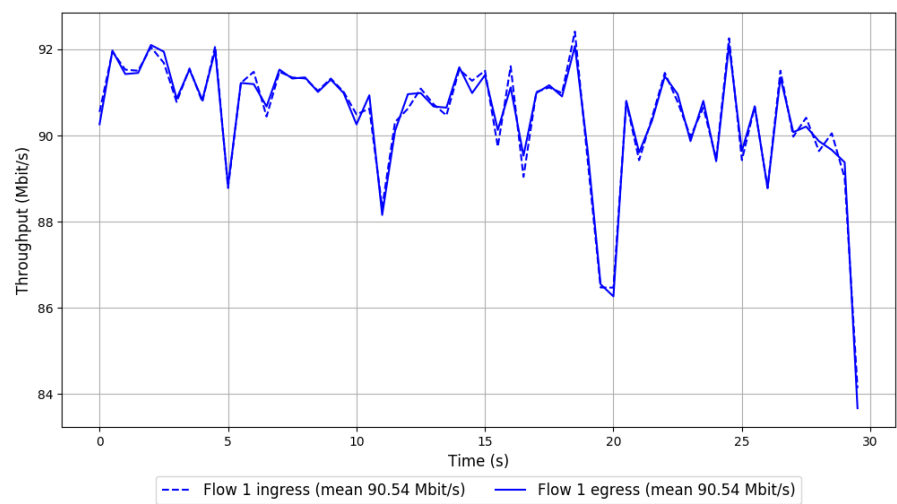
Run 3: Statistics of Copa

Start at: 2018-04-17 02:03:54  
End at: 2018-04-17 02:04:24  
Local clock offset: -6.518 ms  
Remote clock offset: -6.912 ms

# Below is generated by plot.py at 2018-04-17 08:05:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.54 Mbit/s  
95th percentile per-packet one-way delay: 2.177 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.54 Mbit/s  
95th percentile per-packet one-way delay: 2.177 ms  
Loss rate: 0.01%



Run 3: Report of Copa — Data Link

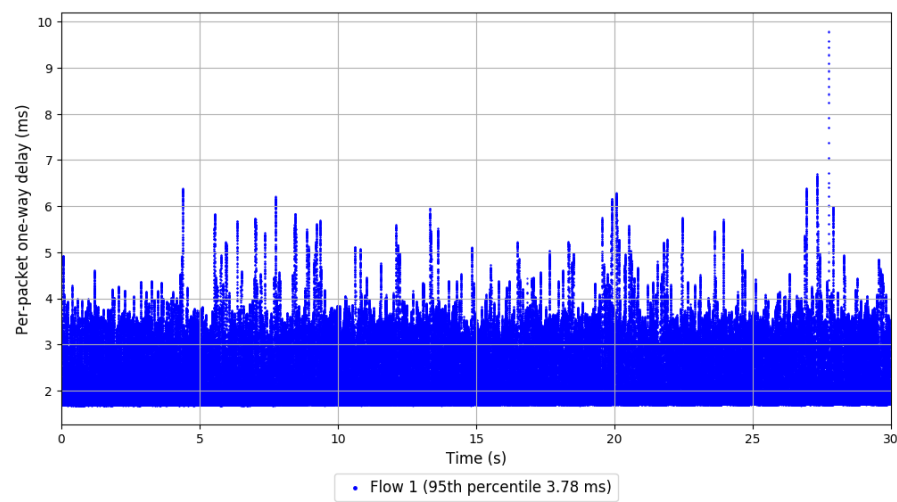
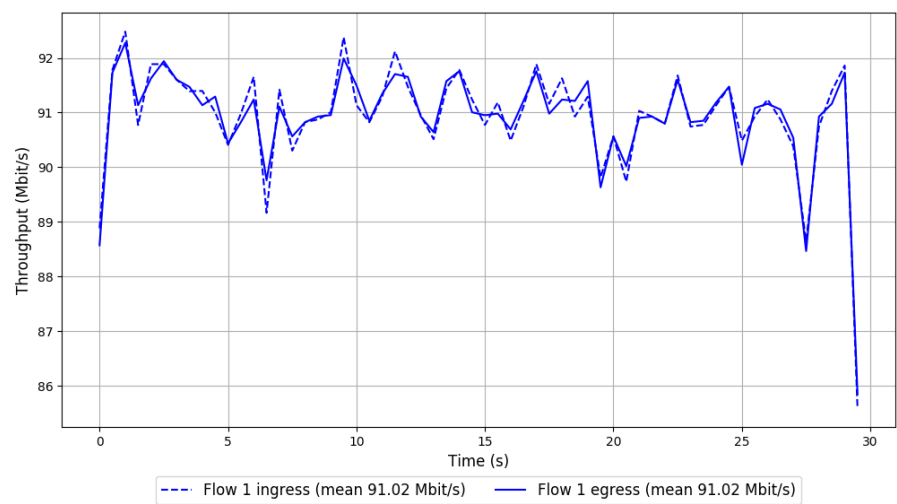


Run 4: Statistics of Copa

Start at: 2018-04-17 02:22:56  
End at: 2018-04-17 02:23:26  
Local clock offset: -5.214 ms  
Remote clock offset: -6.606 ms

# Below is generated by plot.py at 2018-04-17 08:05:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.02 Mbit/s  
95th percentile per-packet one-way delay: 3.783 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 91.02 Mbit/s  
95th percentile per-packet one-way delay: 3.783 ms  
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-17 02:41:57

End at: 2018-04-17 02:42:27

Local clock offset: -4.991 ms

Remote clock offset: -6.22 ms

# Below is generated by plot.py at 2018-04-17 08:05:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 3.702 ms

Loss rate: 0.01%

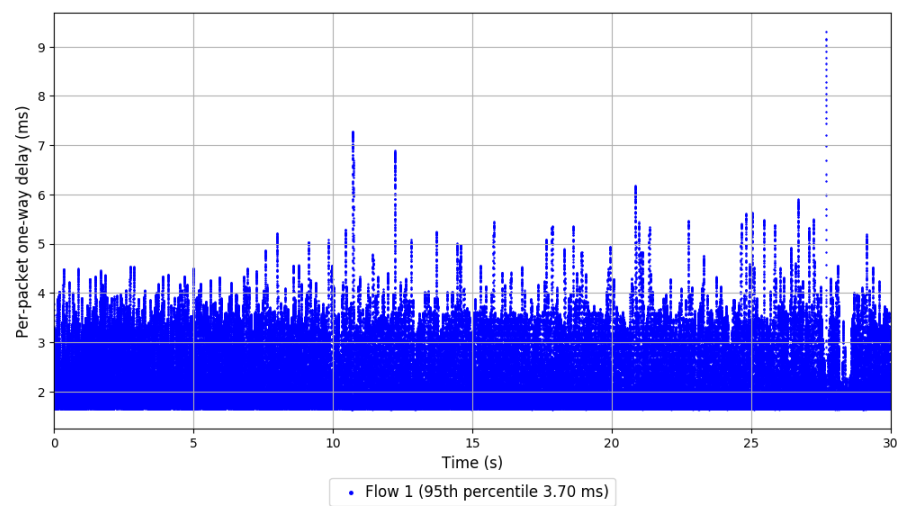
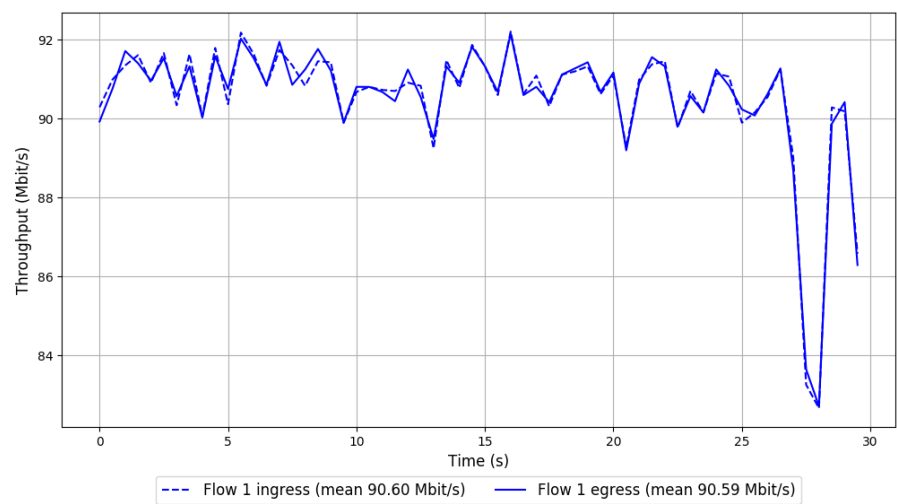
-- Flow 1:

Average throughput: 90.59 Mbit/s

95th percentile per-packet one-way delay: 3.702 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link

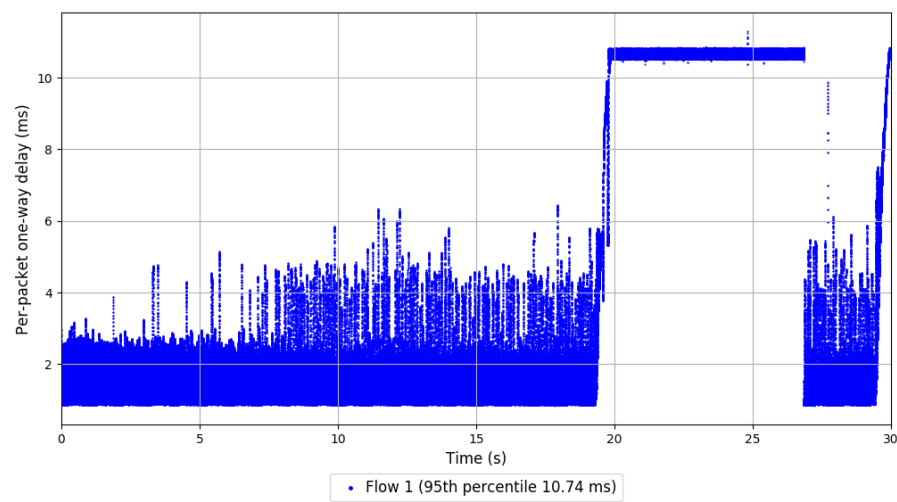
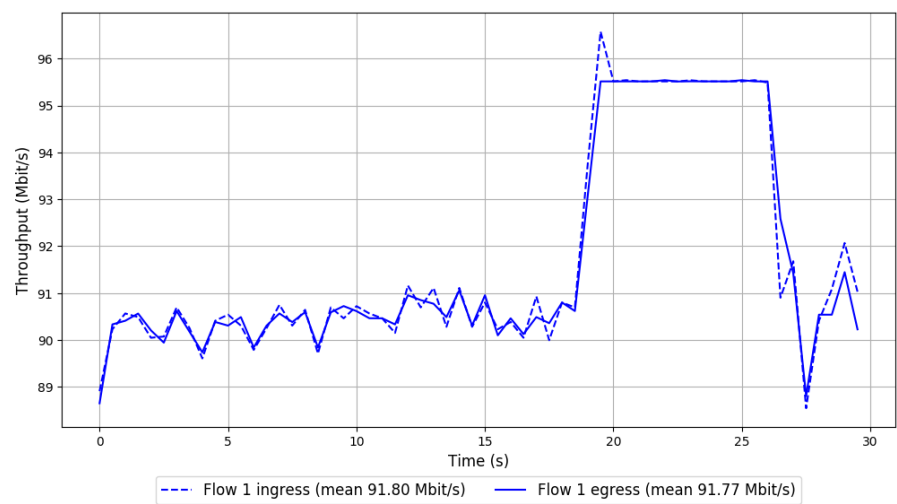


Run 6: Statistics of Copa

Start at: 2018-04-17 03:00:59  
End at: 2018-04-17 03:01:29  
Local clock offset: -5.549 ms  
Remote clock offset: -6.542 ms

# Below is generated by plot.py at 2018-04-17 08:05:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 91.77 Mbit/s  
95th percentile per-packet one-way delay: 10.737 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 91.77 Mbit/s  
95th percentile per-packet one-way delay: 10.737 ms  
Loss rate: 0.04%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 03:20:02

End at: 2018-04-17 03:20:32

Local clock offset: -4.943 ms

Remote clock offset: -6.5 ms

# Below is generated by plot.py at 2018-04-17 08:05:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 11.509 ms

Loss rate: 0.04%

-- Flow 1:

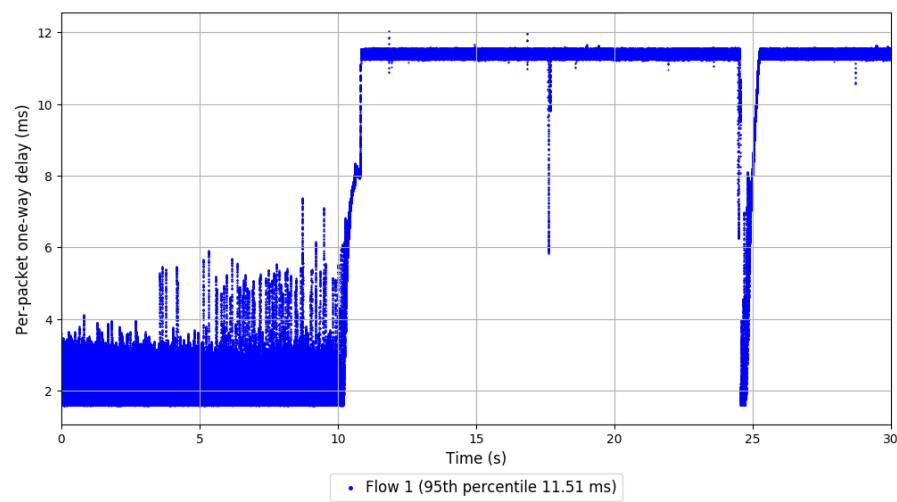
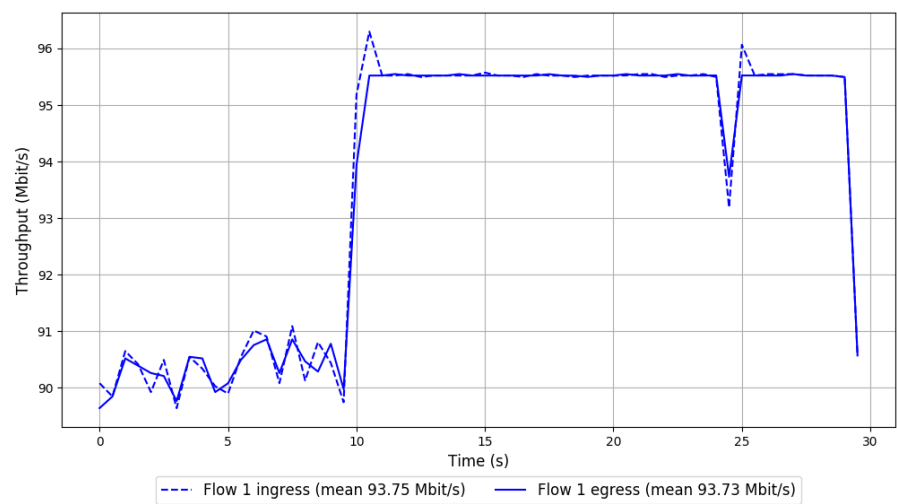
Average throughput: 93.73 Mbit/s

95th percentile per-packet one-way delay: 11.509 ms

Loss rate: 0.04%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-17 03:39:08

End at: 2018-04-17 03:39:38

Local clock offset: -5.74 ms

Remote clock offset: -6.968 ms

# Below is generated by plot.py at 2018-04-17 08:05:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.98 Mbit/s

95th percentile per-packet one-way delay: 3.160 ms

Loss rate: 0.01%

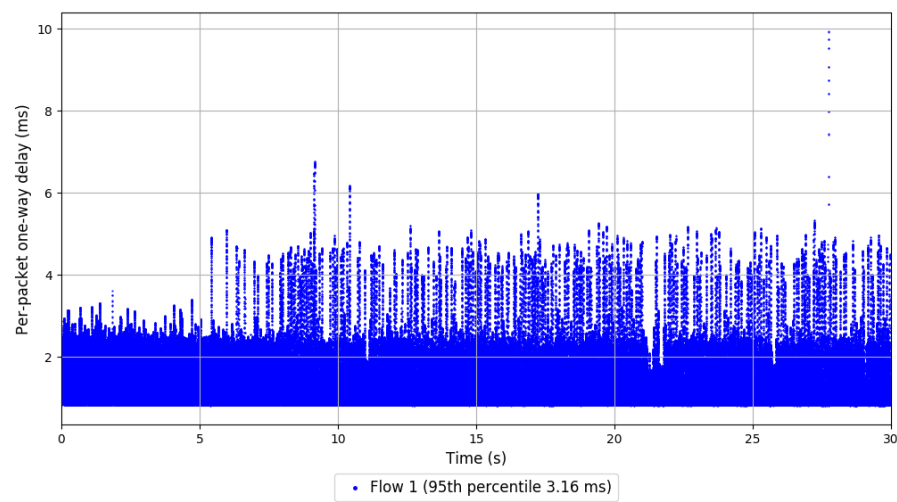
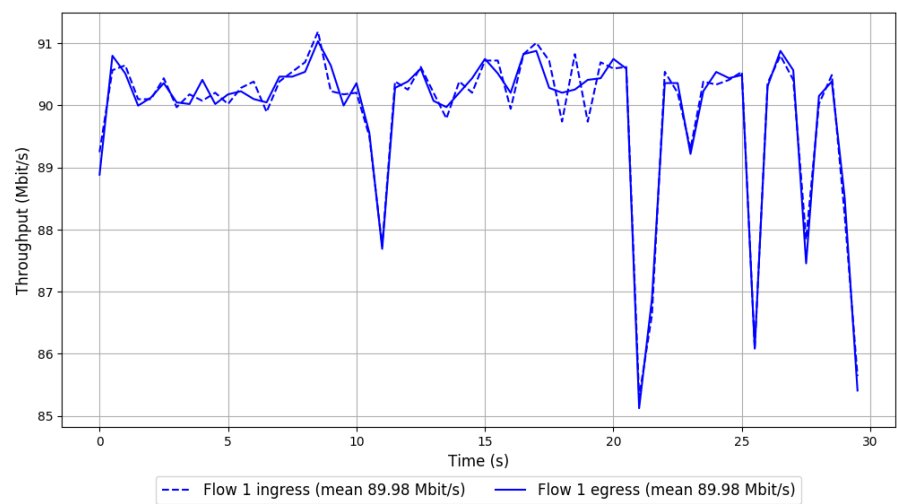
-- Flow 1:

Average throughput: 89.98 Mbit/s

95th percentile per-packet one-way delay: 3.160 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link

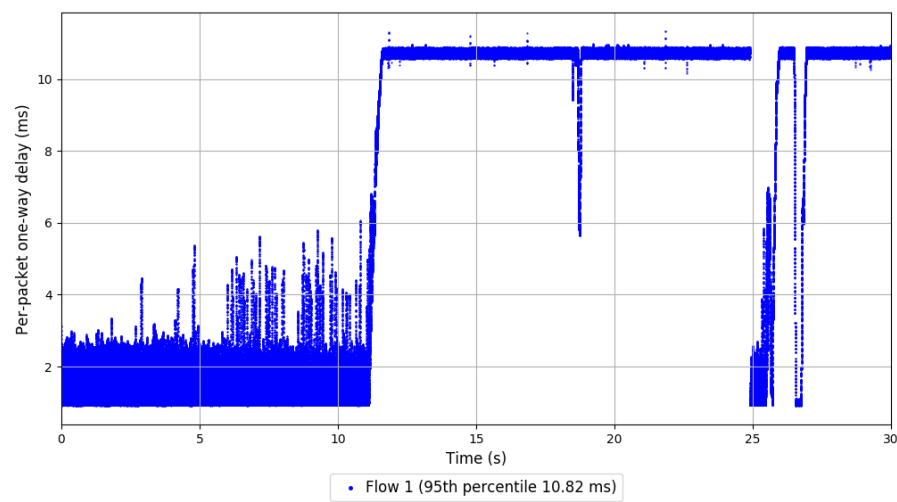
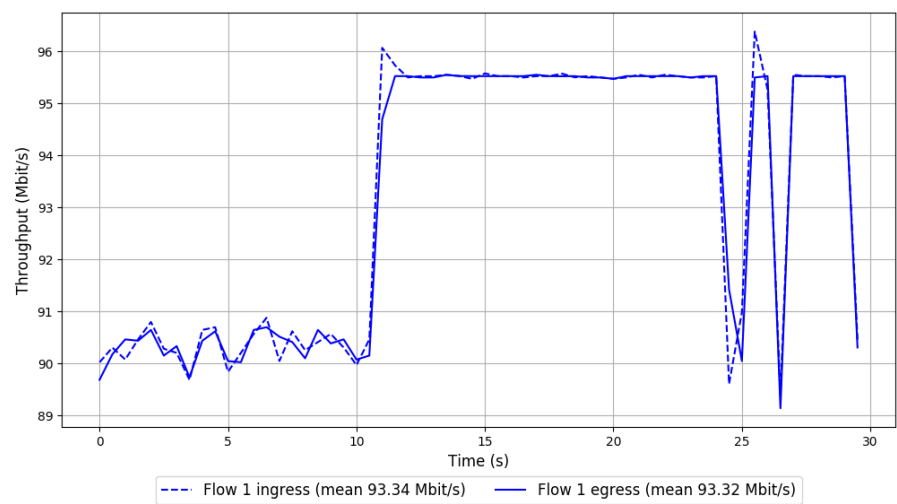


Run 9: Statistics of Copa

Start at: 2018-04-17 03:58:12  
End at: 2018-04-17 03:58:42  
Local clock offset: -5.741 ms  
Remote clock offset: -7.172 ms

# Below is generated by plot.py at 2018-04-17 08:07:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.32 Mbit/s  
95th percentile per-packet one-way delay: 10.825 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 93.32 Mbit/s  
95th percentile per-packet one-way delay: 10.825 ms  
Loss rate: 0.04%

Run 9: Report of Copa — Data Link

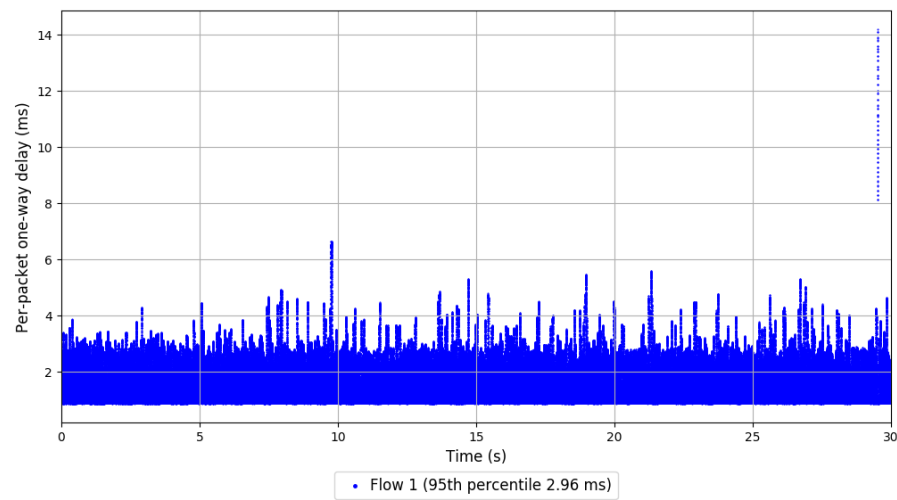
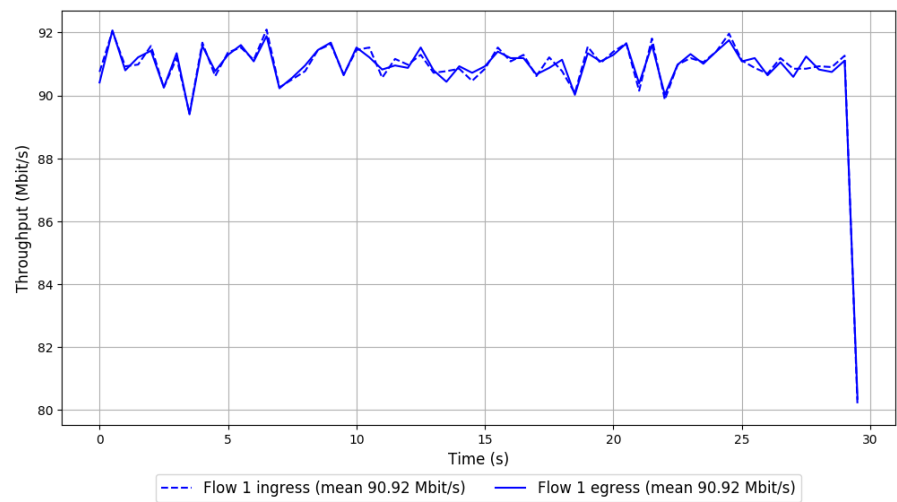


Run 10: Statistics of Copa

Start at: 2018-04-17 04:17:15  
End at: 2018-04-17 04:17:45  
Local clock offset: -5.768 ms  
Remote clock offset: -7.019 ms

# Below is generated by plot.py at 2018-04-17 08:07:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.92 Mbit/s  
95th percentile per-packet one-way delay: 2.964 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.92 Mbit/s  
95th percentile per-packet one-way delay: 2.964 ms  
Loss rate: 0.01%

Run 10: Report of Copa — Data Link



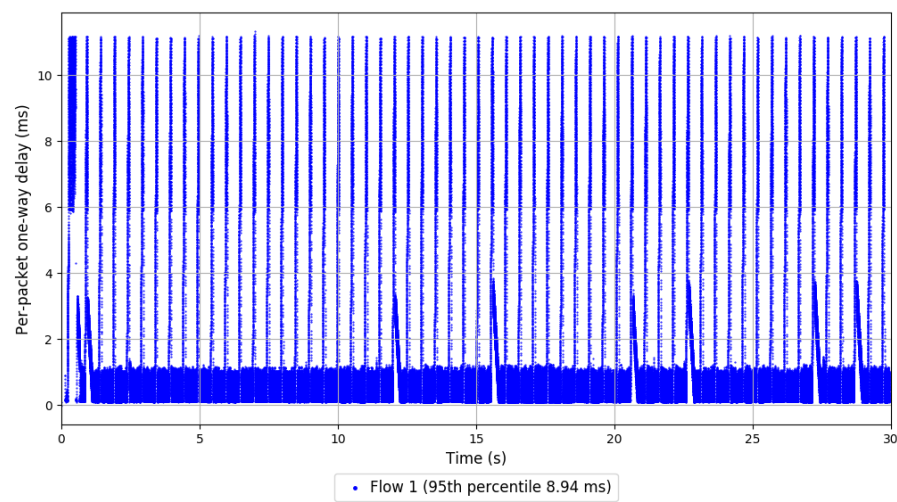
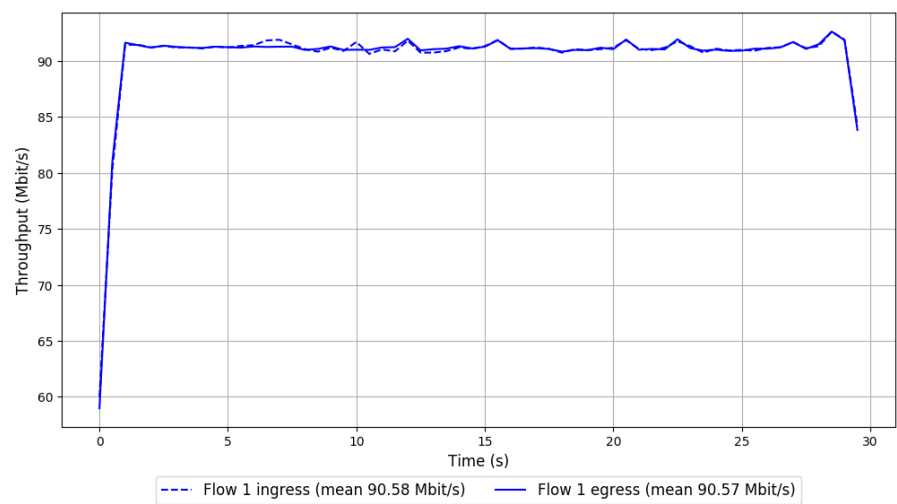
Run 1: Statistics of FillP

Start at: 2018-04-17 01:30:28  
End at: 2018-04-17 01:30:58  
Local clock offset: -6.326 ms  
Remote clock offset: -6.565 ms

# Below is generated by plot.py at 2018-04-17 08:07:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.57 Mbit/s  
95th percentile per-packet one-way delay: 8.937 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.57 Mbit/s  
95th percentile per-packet one-way delay: 8.937 ms  
Loss rate: 0.01%



Run 1: Report of FillP — Data Link

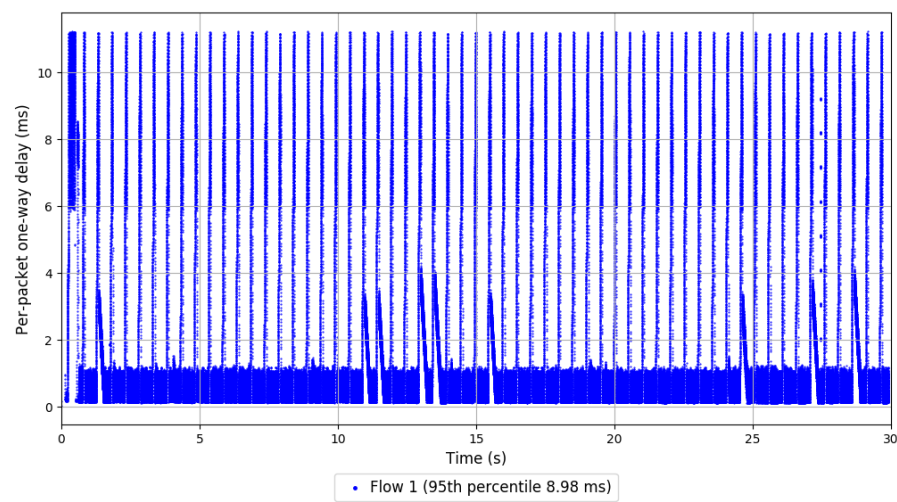
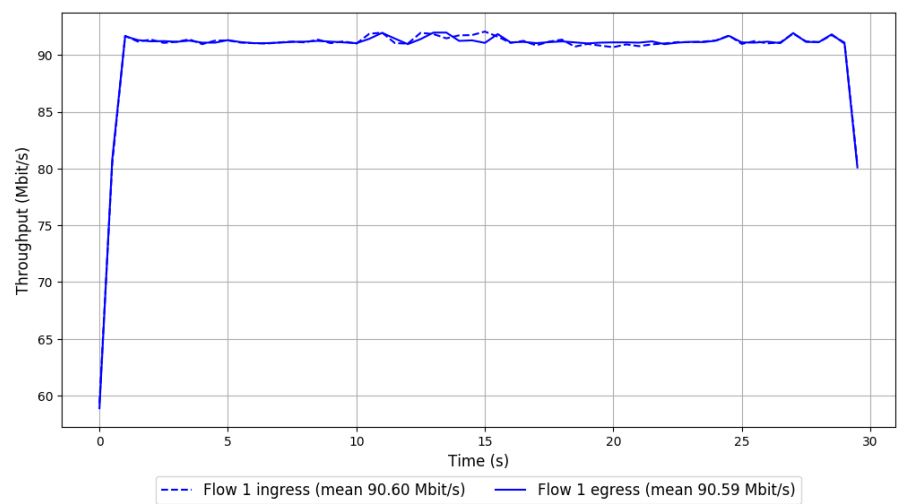


Run 2: Statistics of FillP

Start at: 2018-04-17 01:49:23  
End at: 2018-04-17 01:49:53  
Local clock offset: -6.392 ms  
Remote clock offset: -6.809 ms

# Below is generated by plot.py at 2018-04-17 08:07:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.59 Mbit/s  
95th percentile per-packet one-way delay: 8.985 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.59 Mbit/s  
95th percentile per-packet one-way delay: 8.985 ms  
Loss rate: 0.01%

Run 2: Report of FillP — Data Link

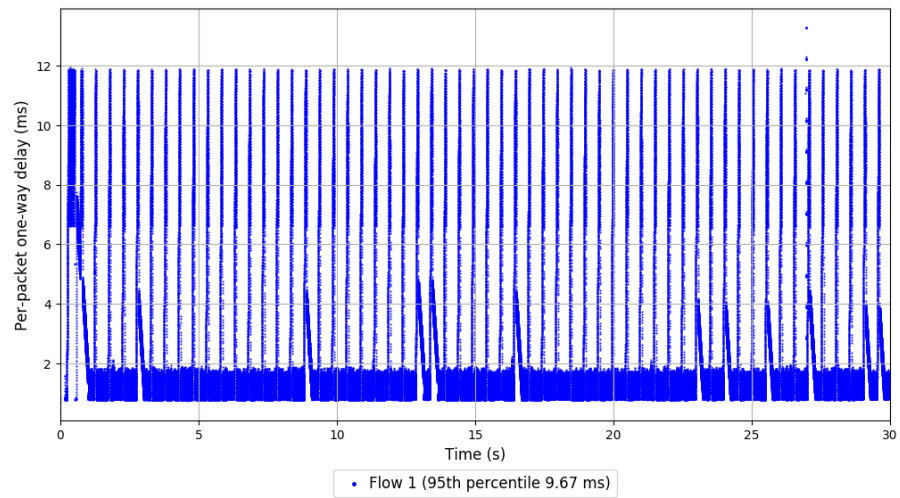
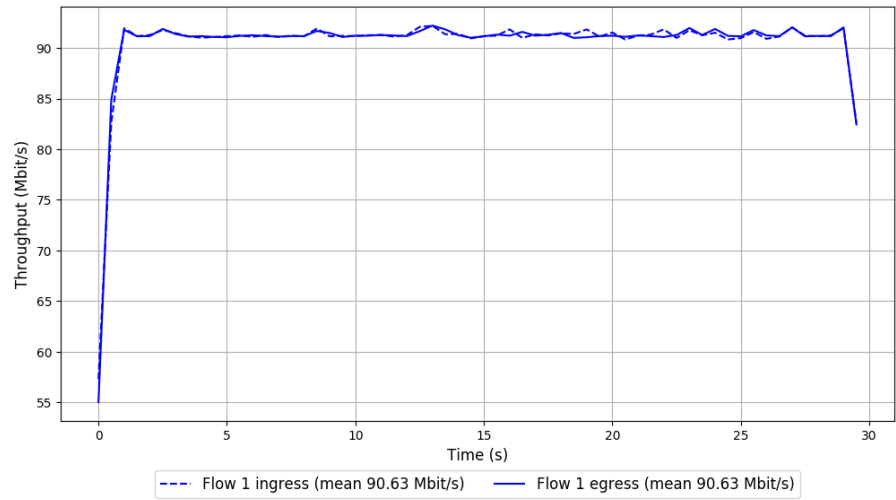


Run 3: Statistics of FillP

Start at: 2018-04-17 02:08:26  
End at: 2018-04-17 02:08:56  
Local clock offset: -5.936 ms  
Remote clock offset: -6.922 ms

# Below is generated by plot.py at 2018-04-17 08:07:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.63 Mbit/s  
95th percentile per-packet one-way delay: 9.671 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.63 Mbit/s  
95th percentile per-packet one-way delay: 9.671 ms  
Loss rate: 0.01%

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

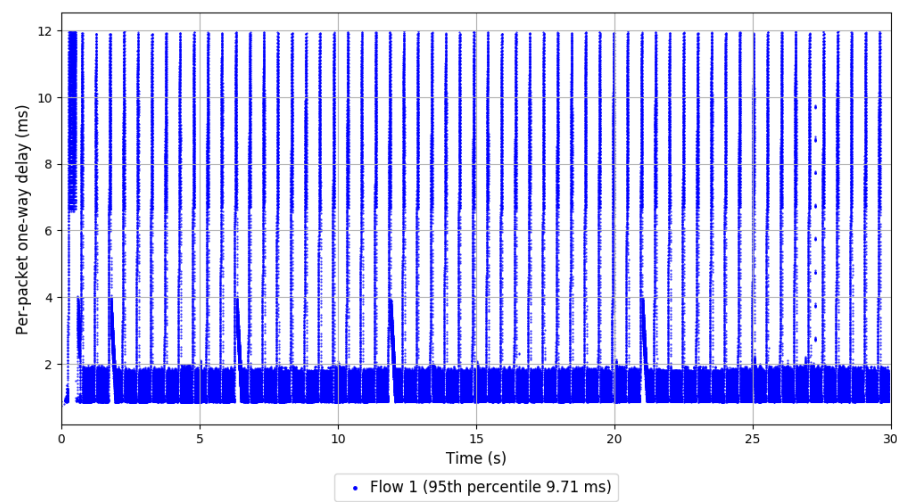
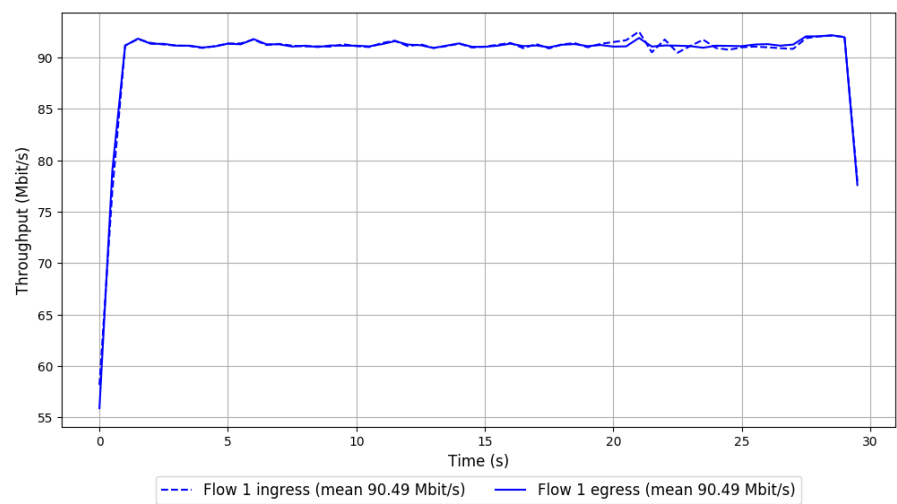


Run 4: Statistics of FillP

Start at: 2018-04-17 02:27:27  
End at: 2018-04-17 02:27:57  
Local clock offset: -6.001 ms  
Remote clock offset: -6.426 ms

# Below is generated by plot.py at 2018-04-17 08:07:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.49 Mbit/s  
95th percentile per-packet one-way delay: 9.707 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.49 Mbit/s  
95th percentile per-packet one-way delay: 9.707 ms  
Loss rate: 0.01%

Run 4: Report of FillP — Data Link



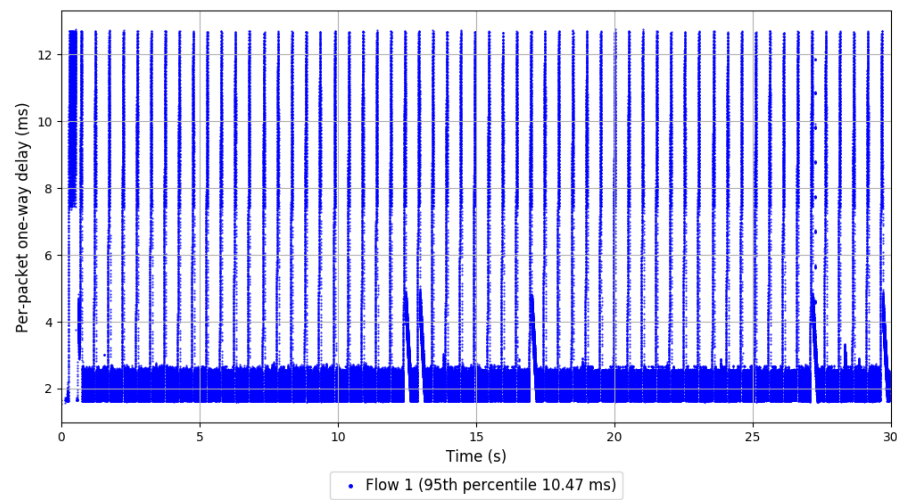
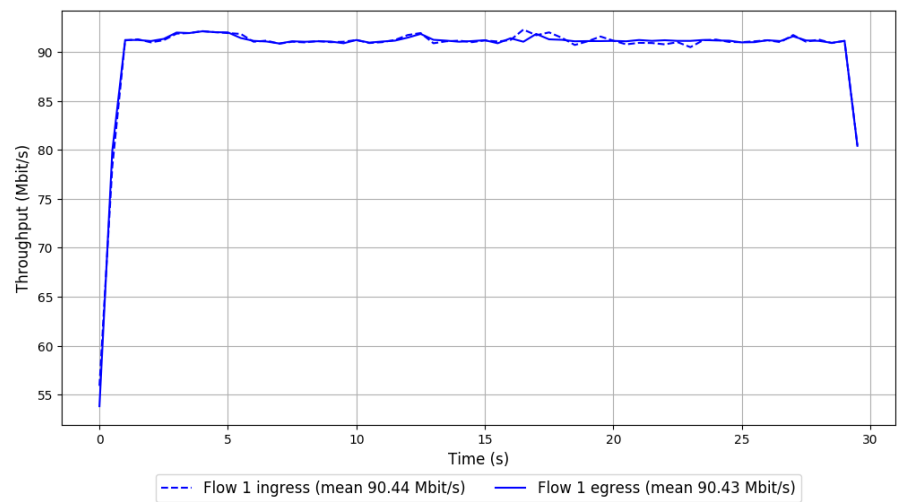
Run 5: Statistics of FillP

Start at: 2018-04-17 02:46:29  
End at: 2018-04-17 02:46:59  
Local clock offset: -4.921 ms  
Remote clock offset: -6.125 ms

# Below is generated by plot.py at 2018-04-17 08:07:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.43 Mbit/s  
95th percentile per-packet one-way delay: 10.470 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.43 Mbit/s  
95th percentile per-packet one-way delay: 10.470 ms  
Loss rate: 0.01%



Run 5: Report of FillP — Data Link

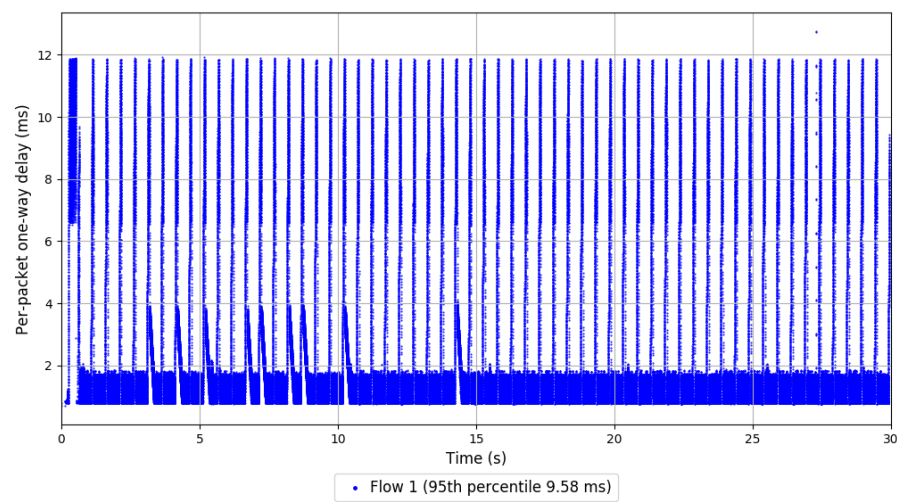
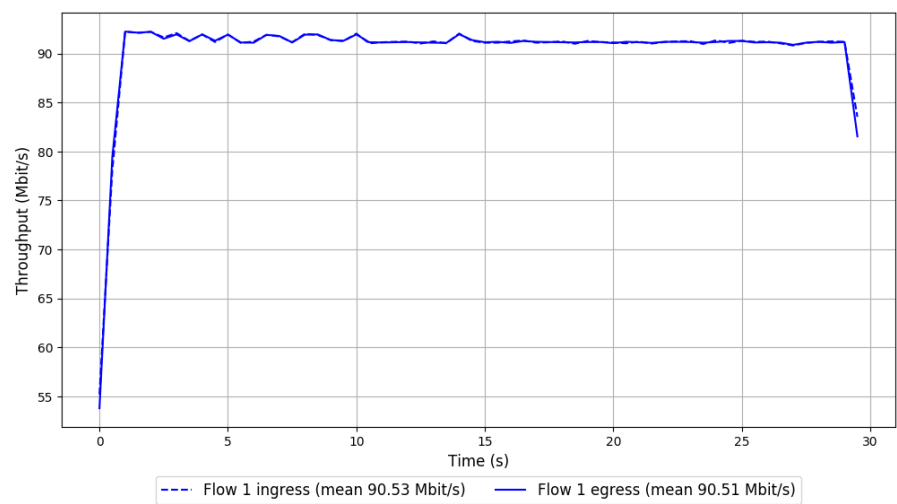


Run 6: Statistics of FillP

Start at: 2018-04-17 03:05:31  
End at: 2018-04-17 03:06:01  
Local clock offset: -5.644 ms  
Remote clock offset: -6.579 ms

# Below is generated by plot.py at 2018-04-17 08:07:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.51 Mbit/s  
95th percentile per-packet one-way delay: 9.581 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 90.51 Mbit/s  
95th percentile per-packet one-way delay: 9.581 ms  
Loss rate: 0.04%

Run 6: Report of FillP — Data Link

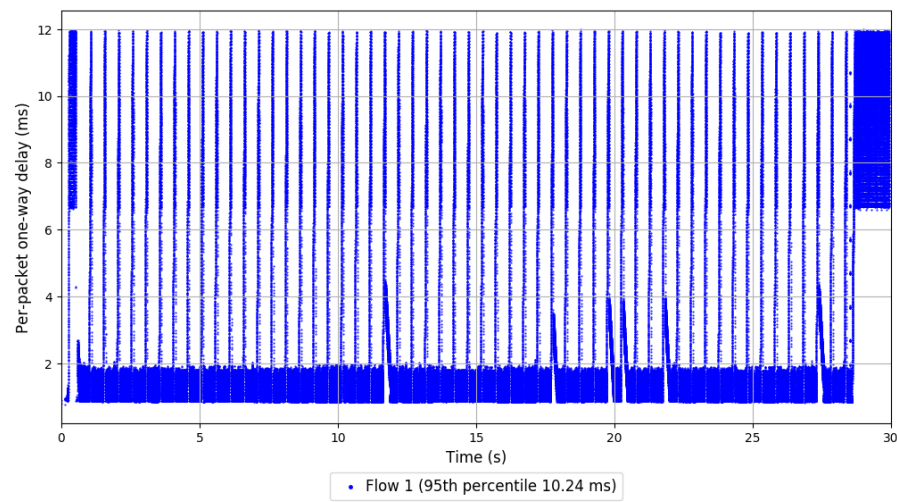
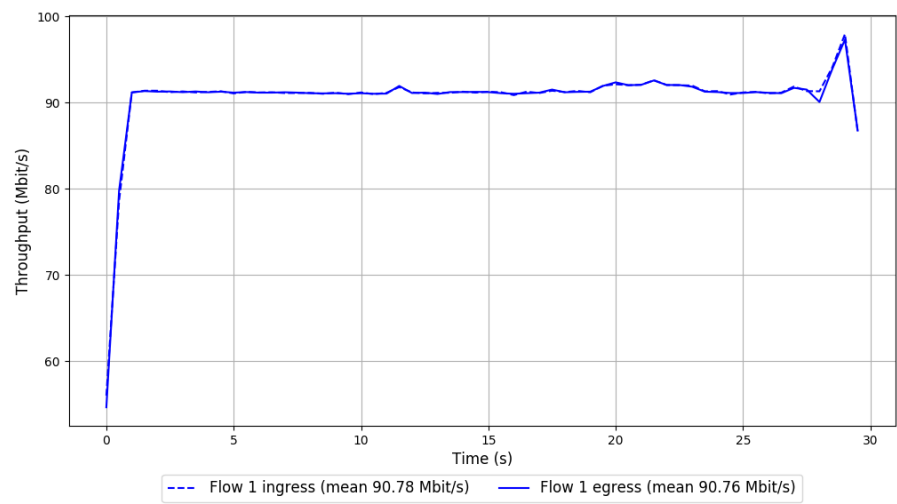


Run 7: Statistics of FillP

Start at: 2018-04-17 03:24:37  
End at: 2018-04-17 03:25:07  
Local clock offset: -5.764 ms  
Remote clock offset: -6.685 ms

# Below is generated by plot.py at 2018-04-17 08:08:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.76 Mbit/s  
95th percentile per-packet one-way delay: 10.237 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 90.76 Mbit/s  
95th percentile per-packet one-way delay: 10.237 ms  
Loss rate: 0.04%

Run 7: Report of FillP — Data Link

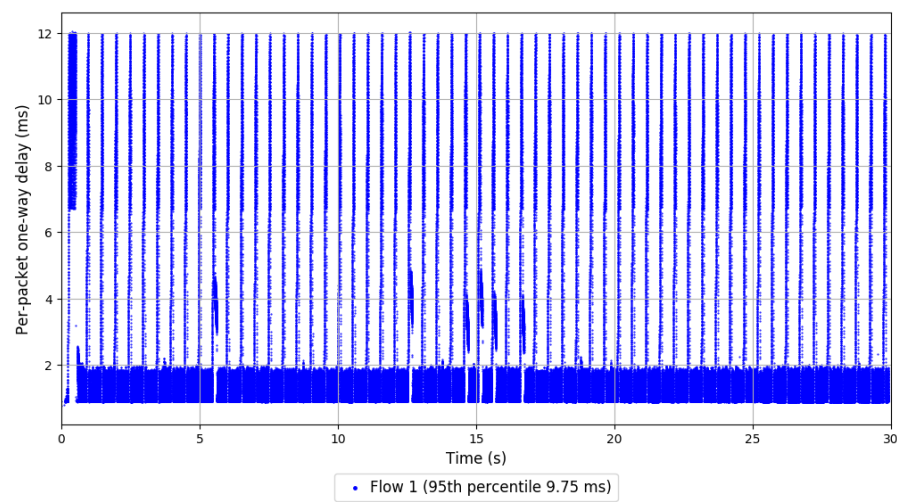
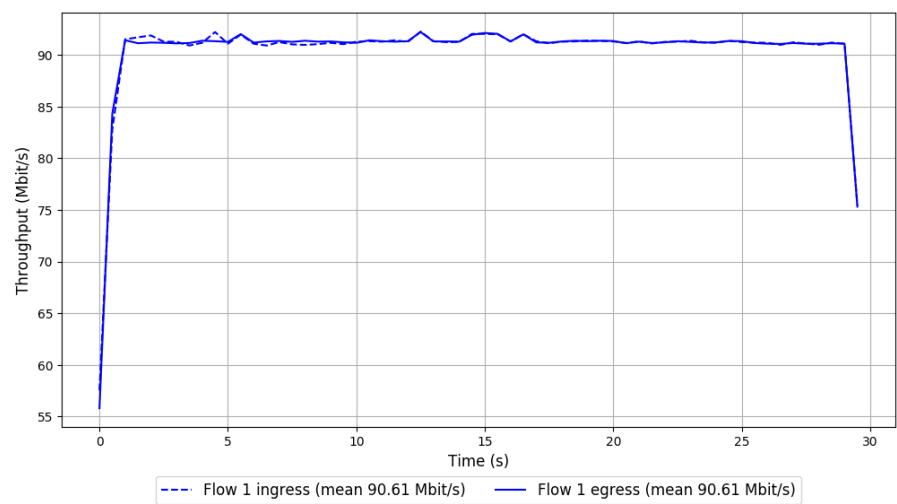


Run 8: Statistics of FillP

Start at: 2018-04-17 03:43:42  
End at: 2018-04-17 03:44:12  
Local clock offset: -5.756 ms  
Remote clock offset: -7.092 ms

# Below is generated by plot.py at 2018-04-17 08:08:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.61 Mbit/s  
95th percentile per-packet one-way delay: 9.746 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.61 Mbit/s  
95th percentile per-packet one-way delay: 9.746 ms  
Loss rate: 0.01%

Run 8: Report of FillP — Data Link



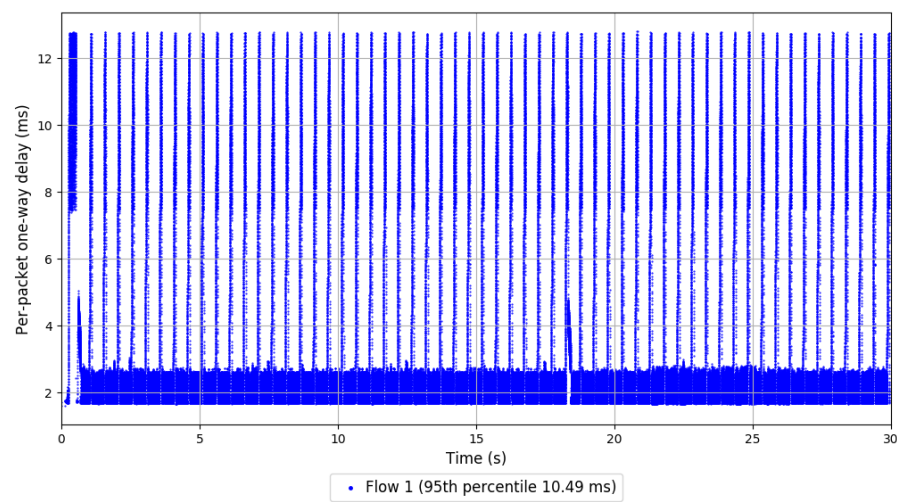
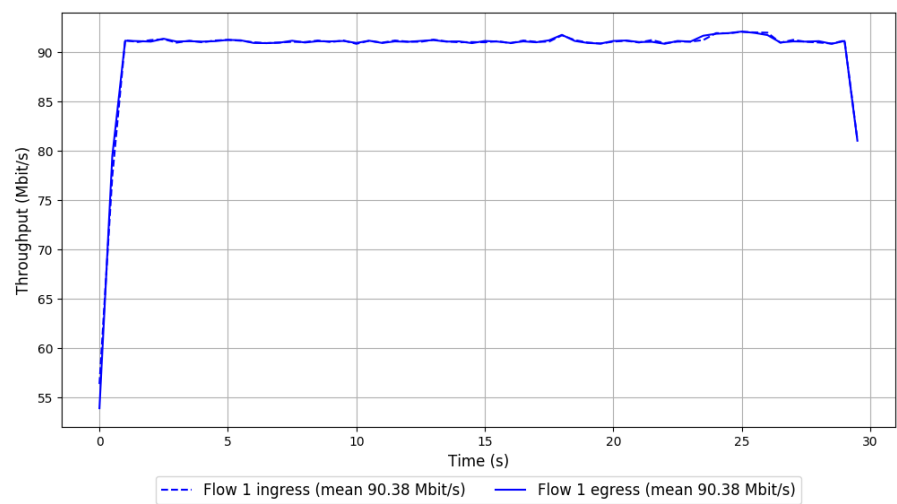
Run 9: Statistics of FillP

Start at: 2018-04-17 04:02:44  
End at: 2018-04-17 04:03:14  
Local clock offset: -5.033 ms  
Remote clock offset: -7.156 ms

# Below is generated by plot.py at 2018-04-17 08:08:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.38 Mbit/s  
95th percentile per-packet one-way delay: 10.489 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.38 Mbit/s  
95th percentile per-packet one-way delay: 10.489 ms  
Loss rate: 0.01%



Run 9: Report of FillP — Data Link

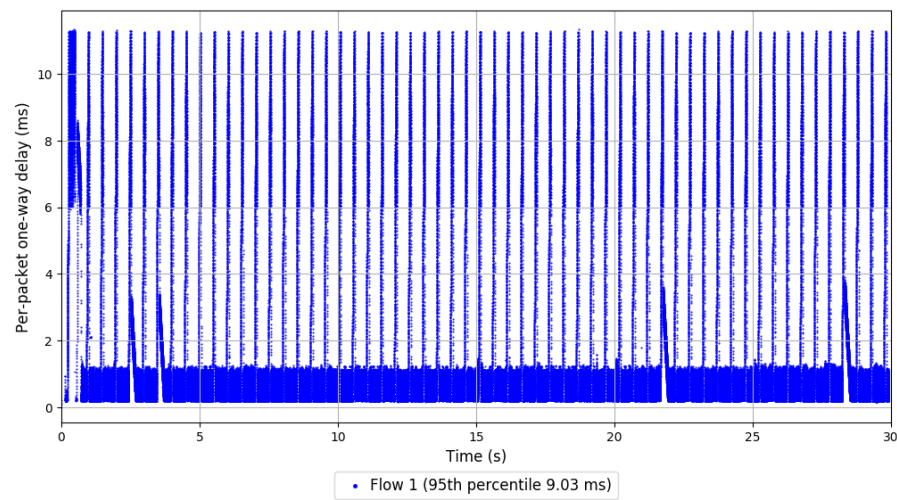
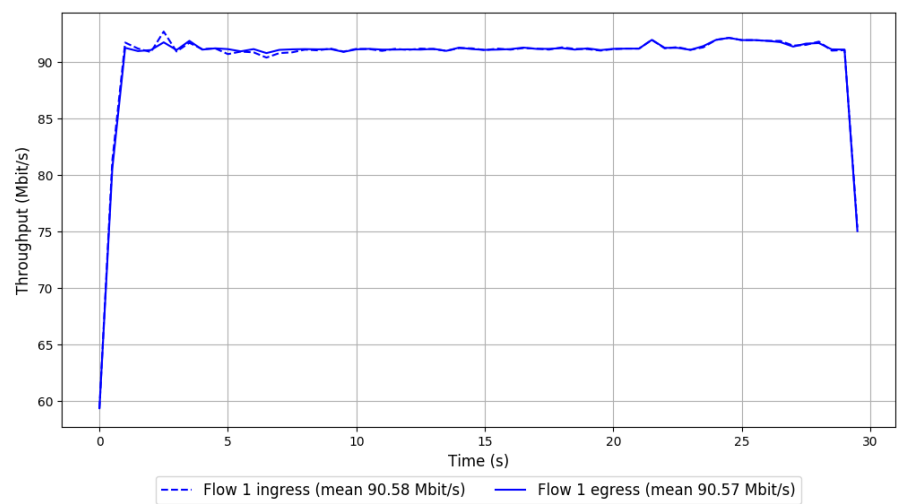


Run 10: Statistics of FillP

Start at: 2018-04-17 04:21:49  
End at: 2018-04-17 04:22:19  
Local clock offset: -6.543 ms  
Remote clock offset: -7.094 ms

# Below is generated by plot.py at 2018-04-17 08:08:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.57 Mbit/s  
95th percentile per-packet one-way delay: 9.034 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 90.57 Mbit/s  
95th percentile per-packet one-way delay: 9.034 ms  
Loss rate: 0.01%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 01:35:56

End at: 2018-04-17 01:36:26

Local clock offset: -4.866 ms

Remote clock offset: -6.526 ms

# Below is generated by plot.py at 2018-04-17 08:08:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 4.526 ms

Loss rate: 0.01%

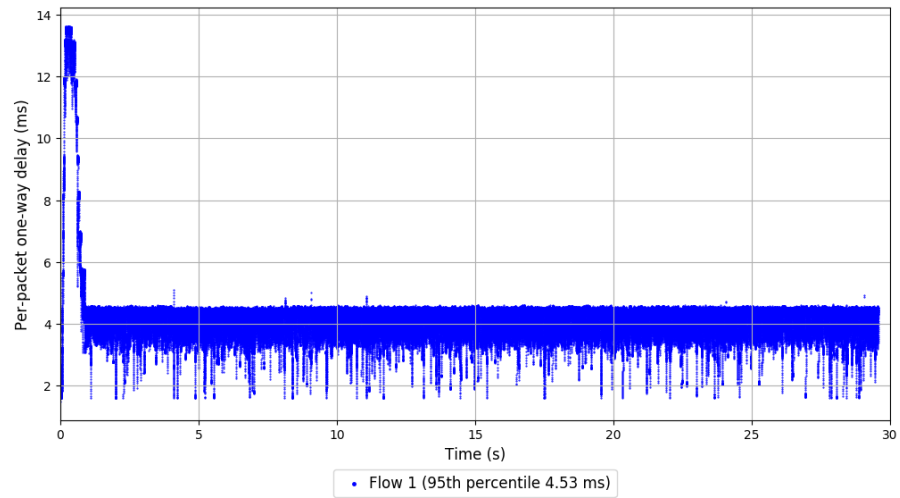
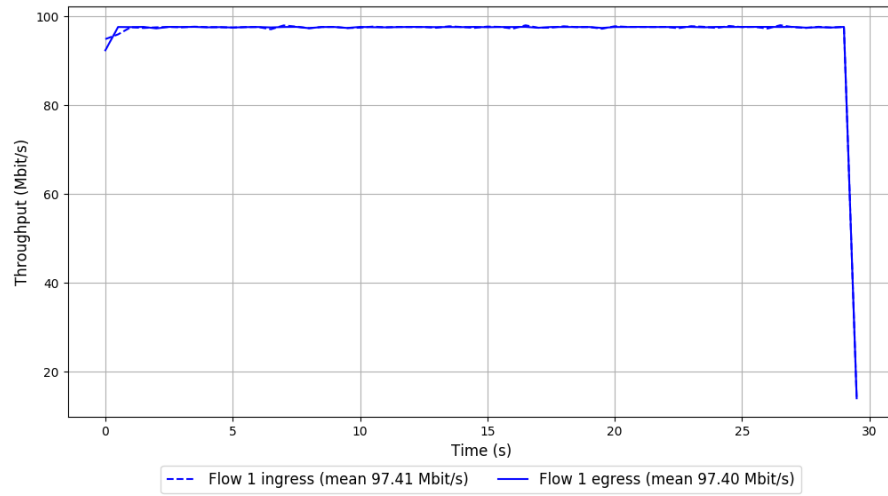
-- Flow 1:

Average throughput: 97.40 Mbit/s

95th percentile per-packet one-way delay: 4.526 ms

Loss rate: 0.01%

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

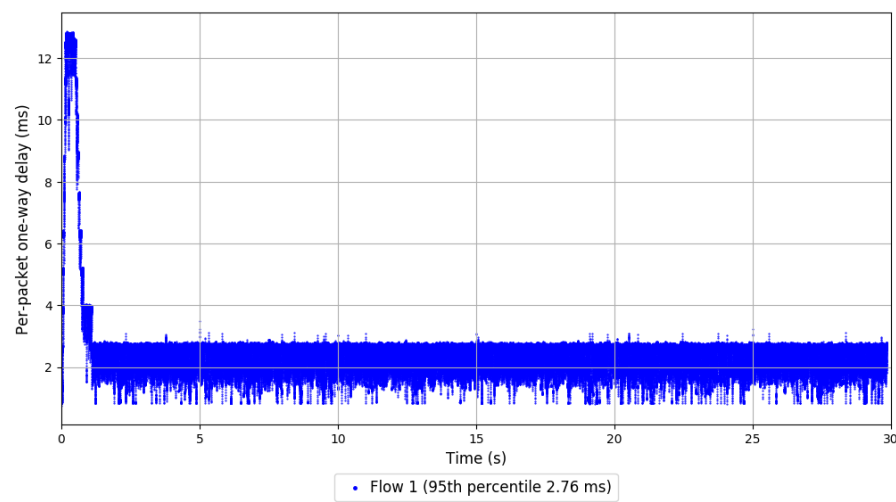
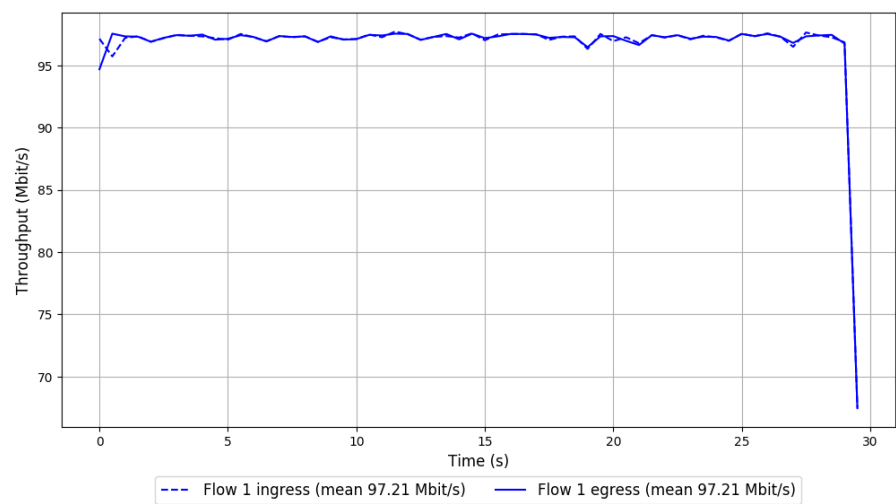


Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 01:54:53  
End at: 2018-04-17 01:55:23  
Local clock offset: -5.701 ms  
Remote clock offset: -6.867 ms

# Below is generated by plot.py at 2018-04-17 08:08:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.21 Mbit/s  
95th percentile per-packet one-way delay: 2.763 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.21 Mbit/s  
95th percentile per-packet one-way delay: 2.763 ms  
Loss rate: 0.01%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 02:13:54

End at: 2018-04-17 02:14:24

Local clock offset: -5.913 ms

Remote clock offset: -6.906 ms

# Below is generated by plot.py at 2018-04-17 08:08:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 3.812 ms

Loss rate: 0.01%

-- Flow 1:

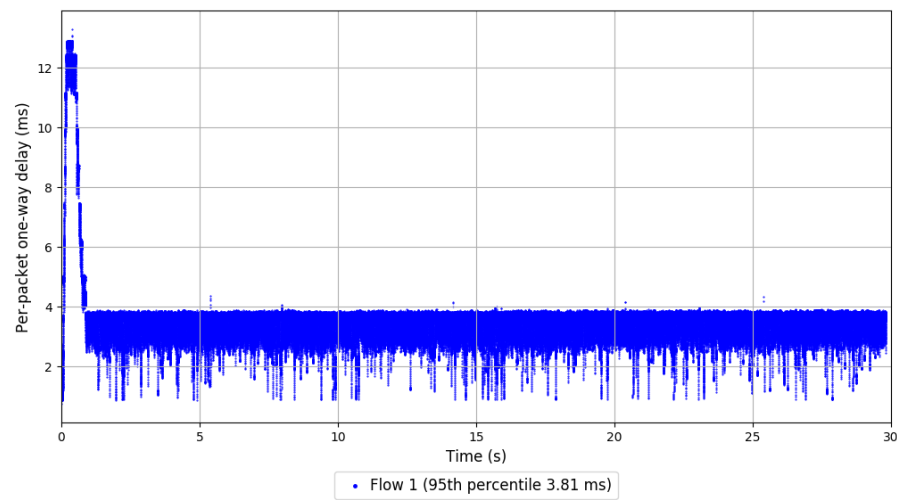
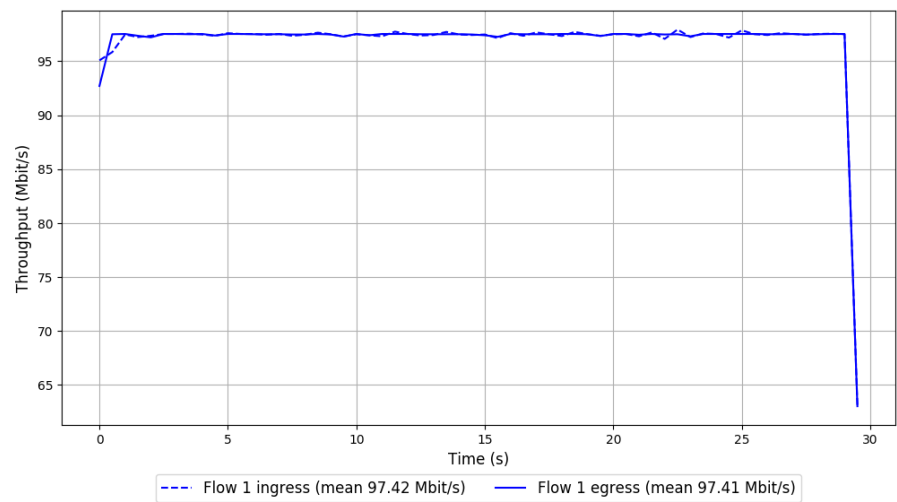
Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 3.812 ms

Loss rate: 0.01%



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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 02:32:56

End at: 2018-04-17 02:33:26

Local clock offset: -5.299 ms

Remote clock offset: -6.334 ms

# Below is generated by plot.py at 2018-04-17 08:08:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 4.550 ms

Loss rate: 0.01%

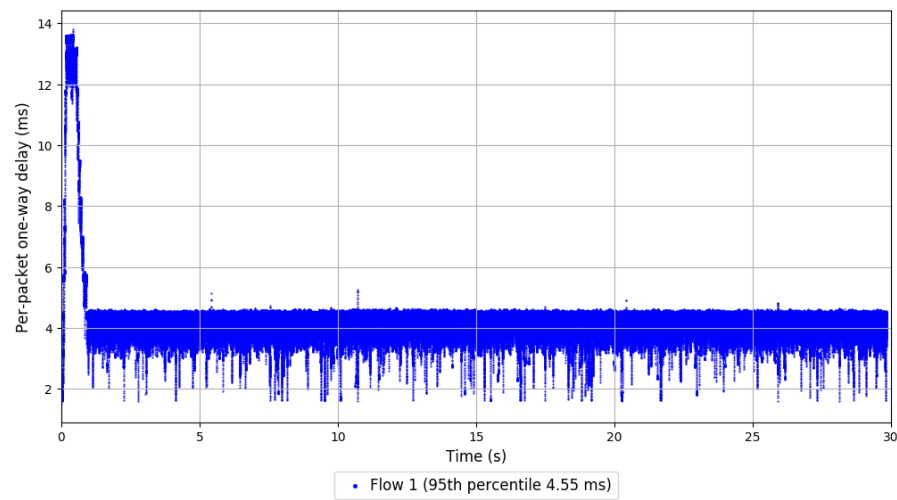
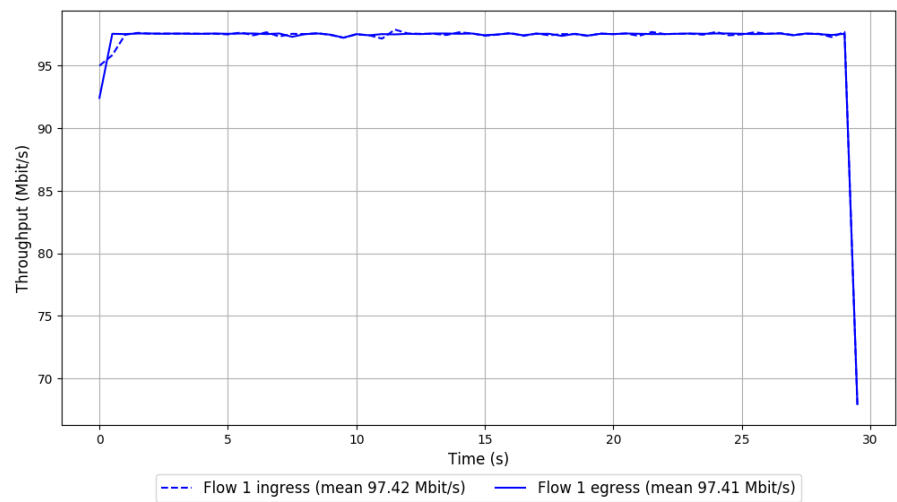
-- Flow 1:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 4.550 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 02:51:58

End at: 2018-04-17 02:52:28

Local clock offset: -6.433 ms

Remote clock offset: -6.328 ms

# Below is generated by plot.py at 2018-04-17 08:09:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 2.941 ms

Loss rate: 0.01%

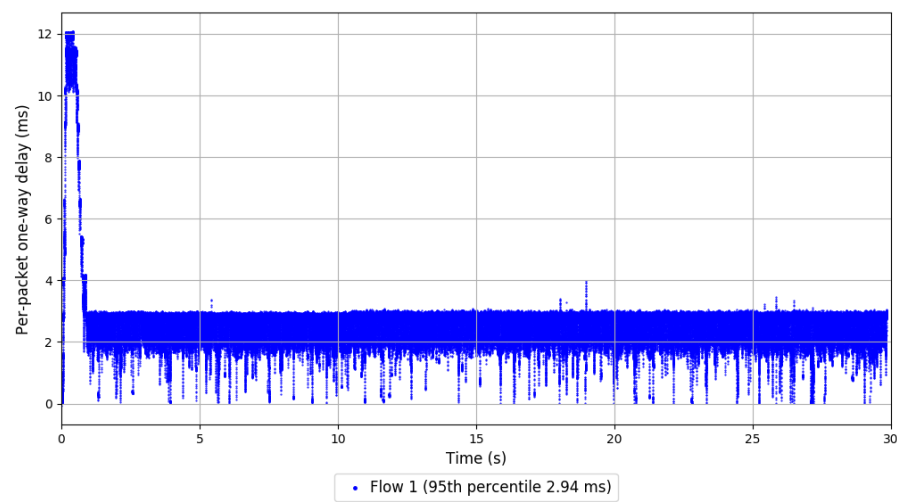
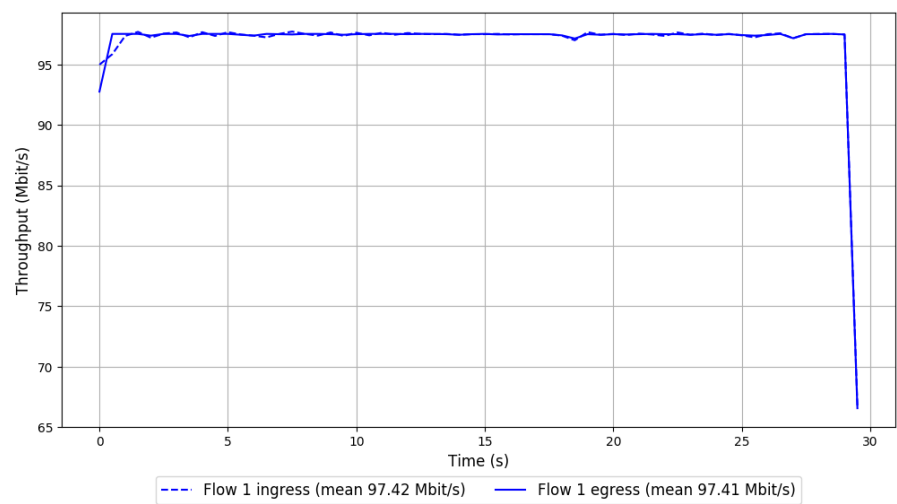
-- Flow 1:

Average throughput: 97.41 Mbit/s

95th percentile per-packet one-way delay: 2.941 ms

Loss rate: 0.01%

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

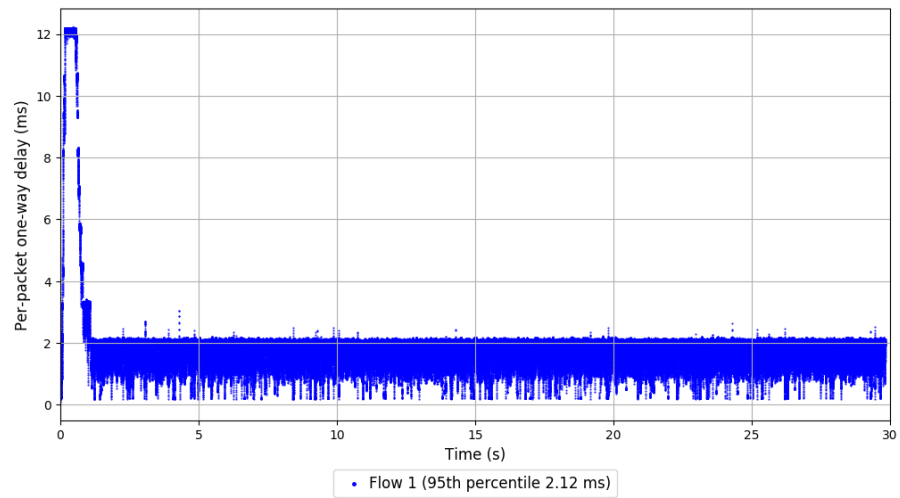
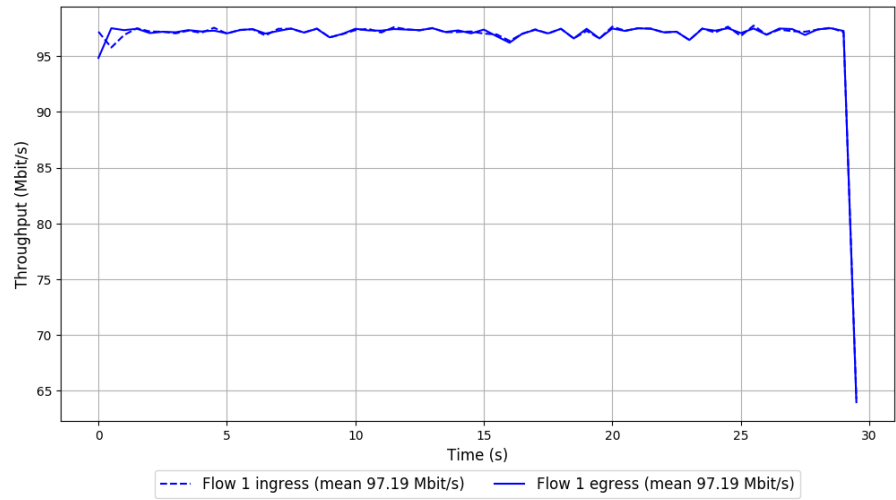


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 03:11:01  
End at: 2018-04-17 03:11:31  
Local clock offset: -6.363 ms  
Remote clock offset: -6.623 ms

# Below is generated by plot.py at 2018-04-17 08:09:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.19 Mbit/s  
95th percentile per-packet one-way delay: 2.121 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.19 Mbit/s  
95th percentile per-packet one-way delay: 2.121 ms  
Loss rate: 0.01%

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



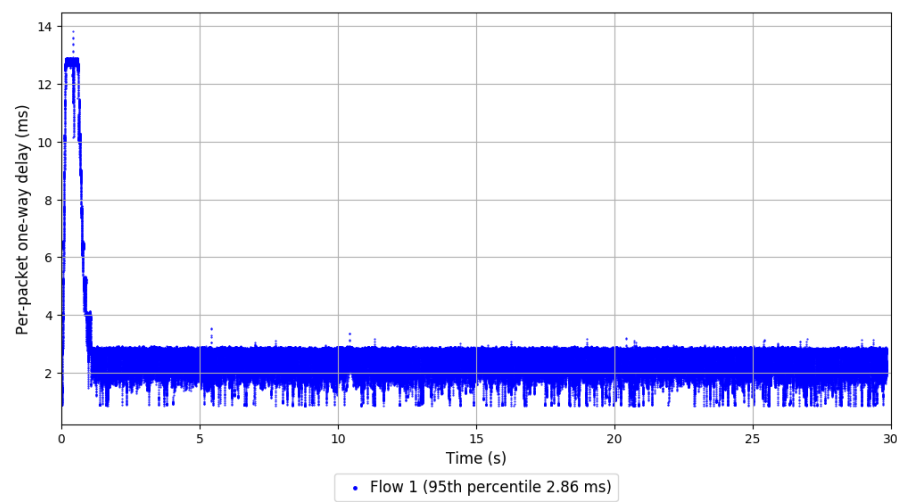
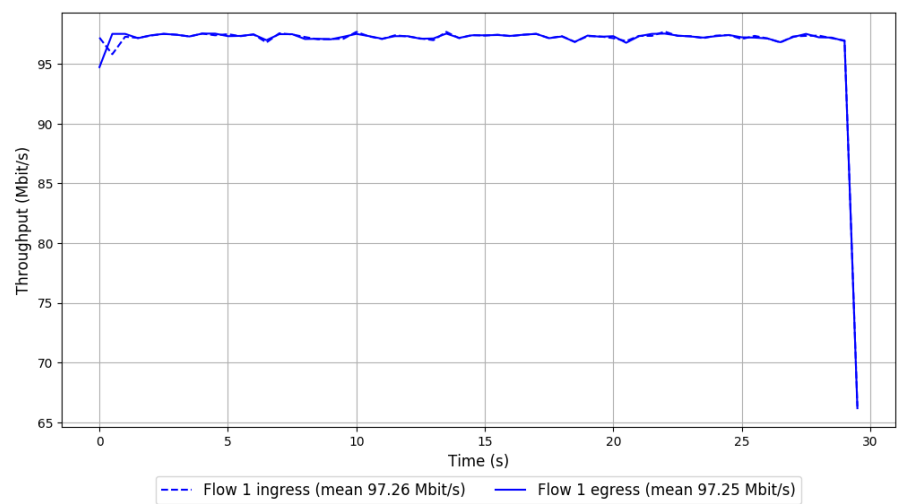
Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 03:30:07  
End at: 2018-04-17 03:30:37  
Local clock offset: -5.707 ms  
Remote clock offset: -6.809 ms

# Below is generated by plot.py at 2018-04-17 08:09:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.25 Mbit/s  
95th percentile per-packet one-way delay: 2.856 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.25 Mbit/s  
95th percentile per-packet one-way delay: 2.856 ms  
Loss rate: 0.01%



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

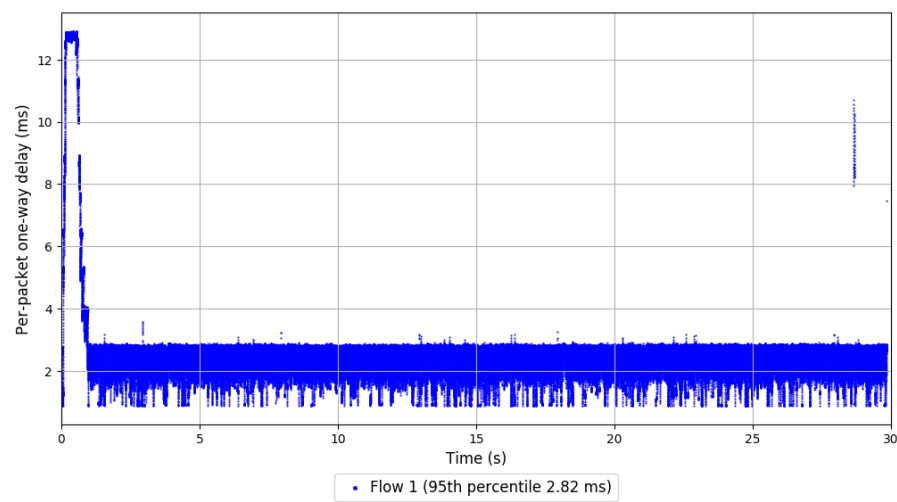
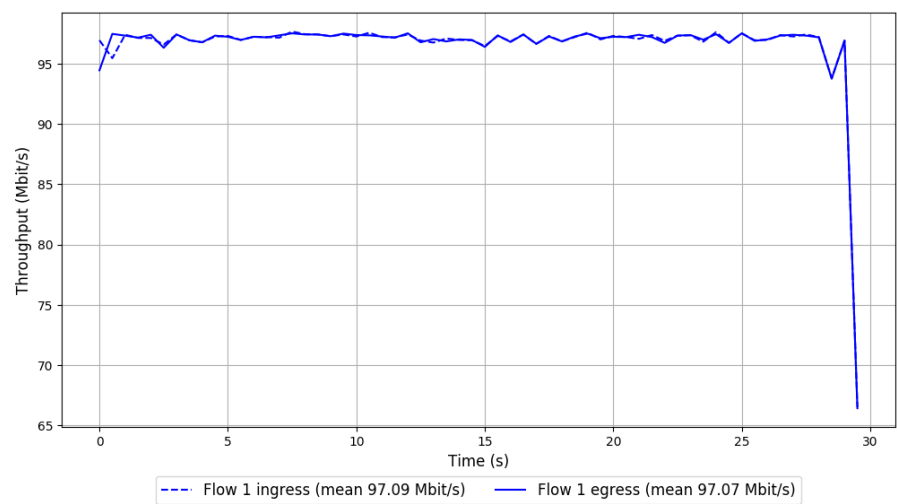


Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 03:49:11  
End at: 2018-04-17 03:49:41  
Local clock offset: -5.782 ms  
Remote clock offset: -7.142 ms

# Below is generated by plot.py at 2018-04-17 08:09:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.07 Mbit/s  
95th percentile per-packet one-way delay: 2.819 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.07 Mbit/s  
95th percentile per-packet one-way delay: 2.819 ms  
Loss rate: 0.01%

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



Run 9: Statistics of Indigo-1-32

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

End at: 2018-04-17 04:08:44

Local clock offset: -5.035 ms

Remote clock offset: -7.052 ms

# Below is generated by plot.py at 2018-04-17 08:09:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.34 Mbit/s

95th percentile per-packet one-way delay: 4.516 ms

Loss rate: 0.01%

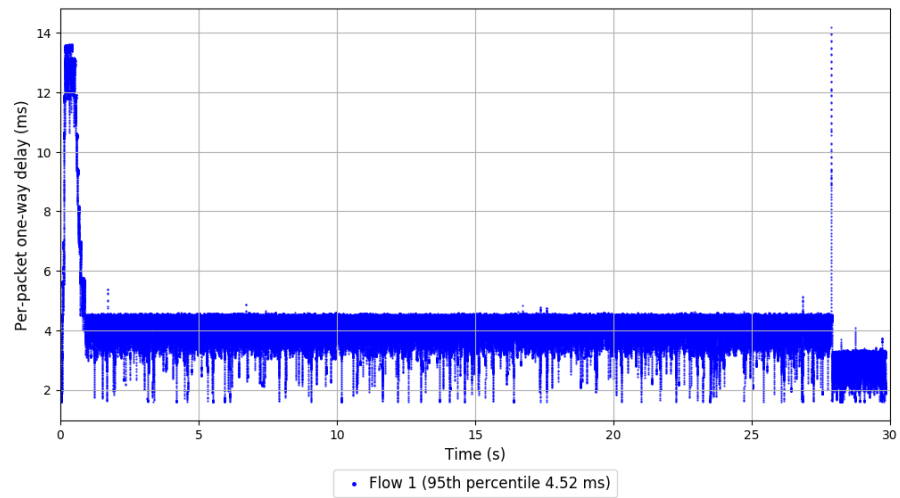
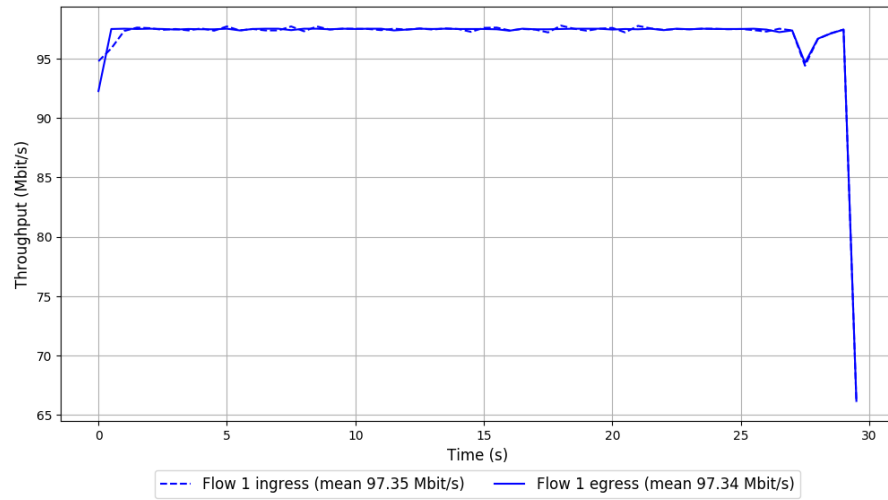
-- Flow 1:

Average throughput: 97.34 Mbit/s

95th percentile per-packet one-way delay: 4.516 ms

Loss rate: 0.01%

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

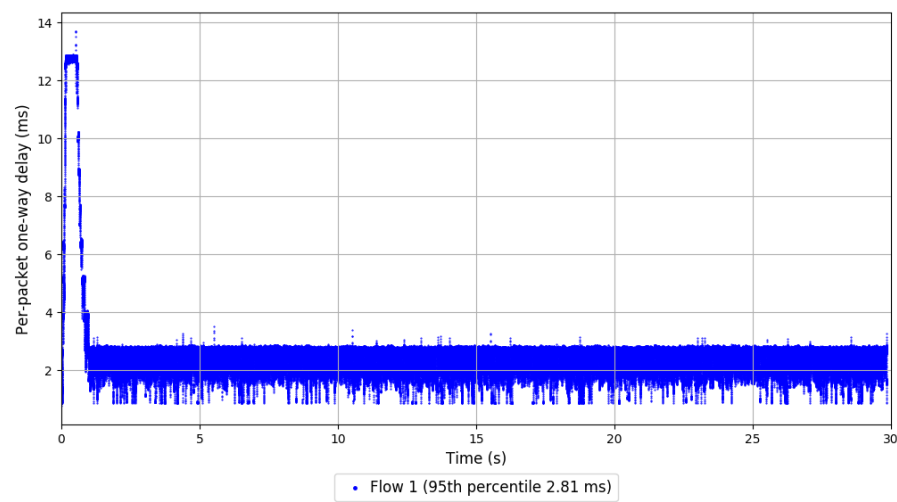
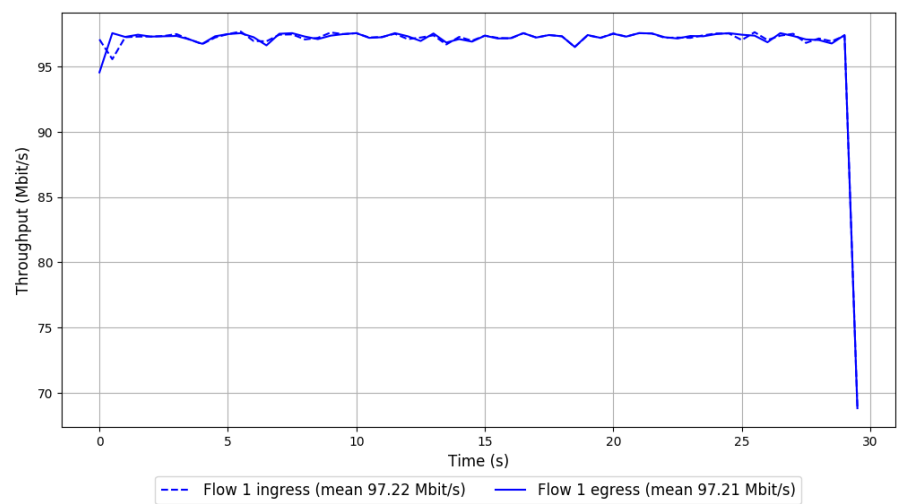


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 04:27:17  
End at: 2018-04-17 04:27:48  
Local clock offset: -5.818 ms  
Remote clock offset: -7.032 ms

# Below is generated by plot.py at 2018-04-17 08:09:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 97.21 Mbit/s  
95th percentile per-packet one-way delay: 2.805 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 97.21 Mbit/s  
95th percentile per-packet one-way delay: 2.805 ms  
Loss rate: 0.01%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 01:27:05

End at: 2018-04-17 01:27:35

Local clock offset: -6.339 ms

Remote clock offset: -6.604 ms

# Below is generated by plot.py at 2018-04-17 08:10:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 0.149 ms

Loss rate: 0.01%

-- Flow 1:

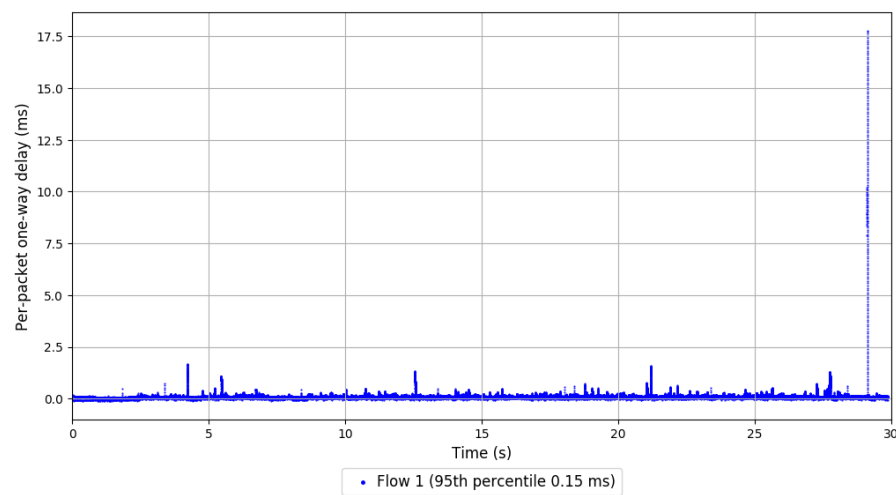
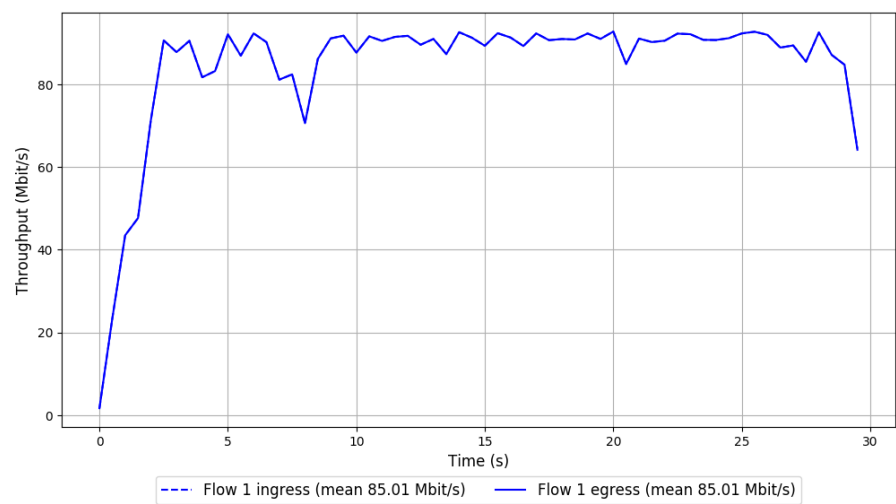
Average throughput: 85.01 Mbit/s

95th percentile per-packet one-way delay: 0.149 ms

Loss rate: 0.01%



Run 1: Report of PCC-Vivace — Data Link

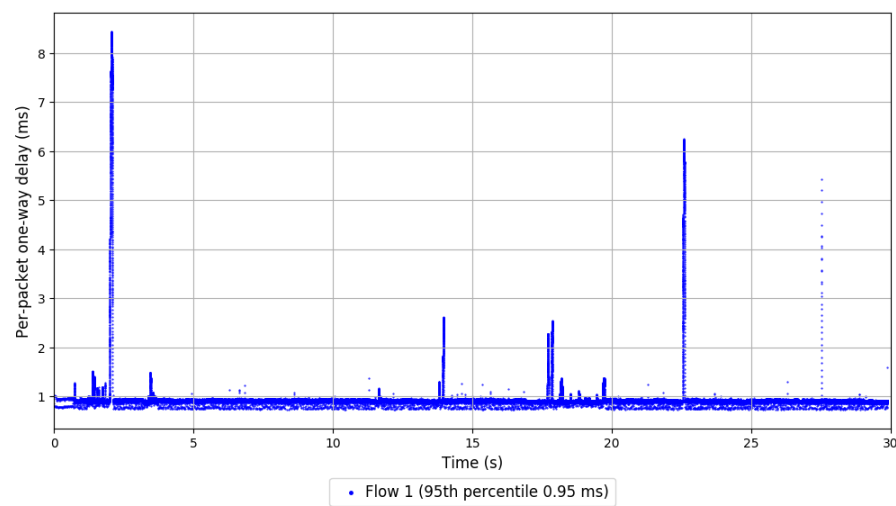
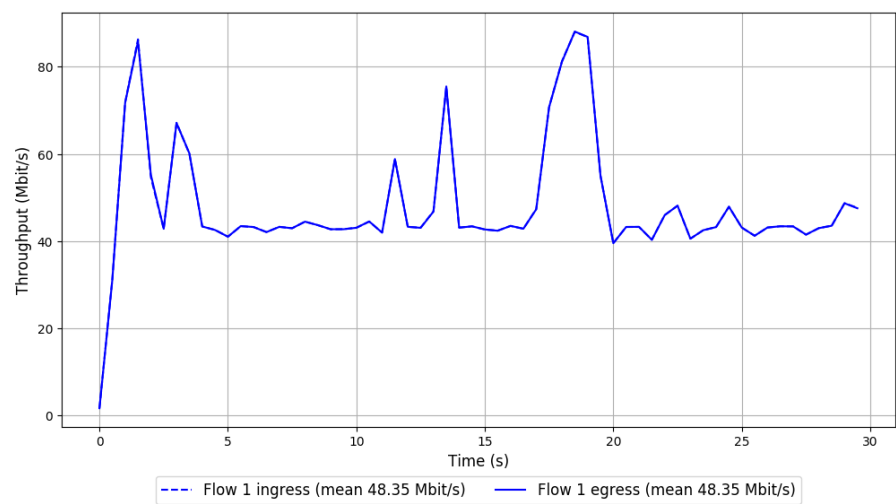


Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 01:46:09  
End at: 2018-04-17 01:46:39  
Local clock offset: -5.653 ms  
Remote clock offset: -6.816 ms

# Below is generated by plot.py at 2018-04-17 08:10:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 48.35 Mbit/s  
95th percentile per-packet one-way delay: 0.951 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 48.35 Mbit/s  
95th percentile per-packet one-way delay: 0.951 ms  
Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

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

End at: 2018-04-17 02:05:35

Local clock offset: -5.764 ms

Remote clock offset: -6.974 ms

# Below is generated by plot.py at 2018-04-17 08:10:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.01%

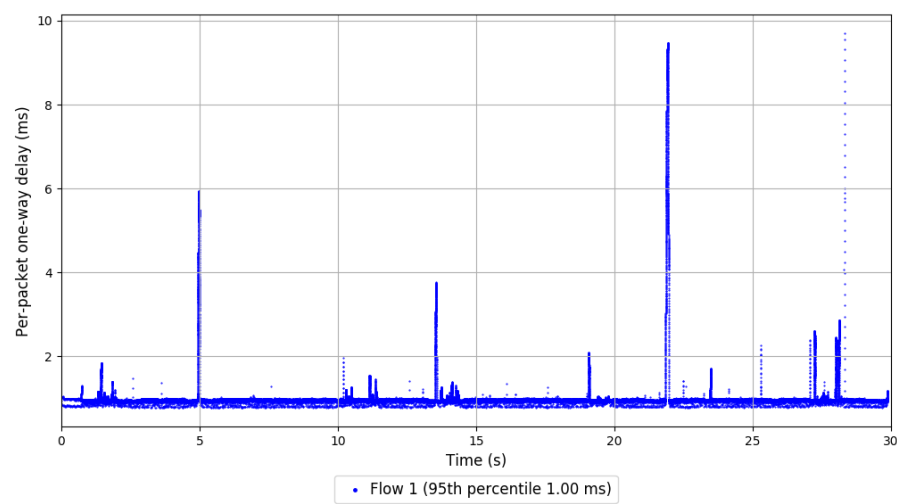
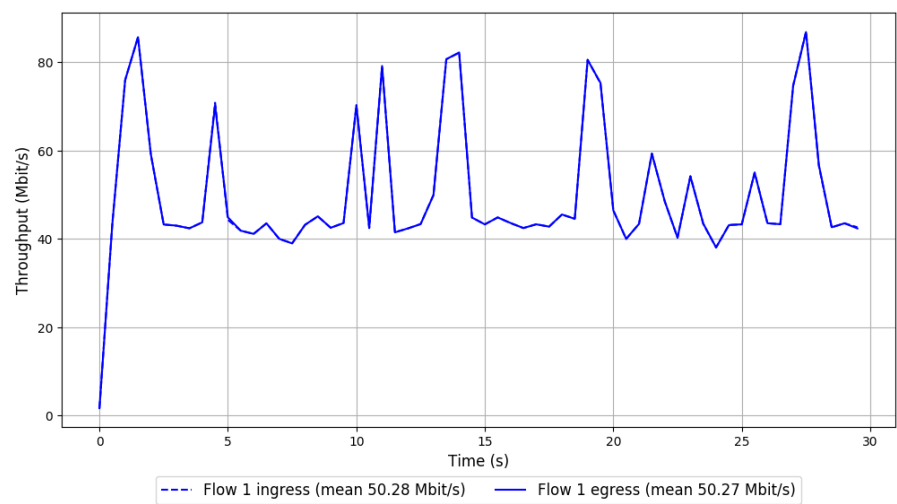
-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 1.000 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 02:24:06

End at: 2018-04-17 02:24:36

Local clock offset: -5.242 ms

Remote clock offset: -6.525 ms

# Below is generated by plot.py at 2018-04-17 08:10:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 1.652 ms

Loss rate: 0.01%

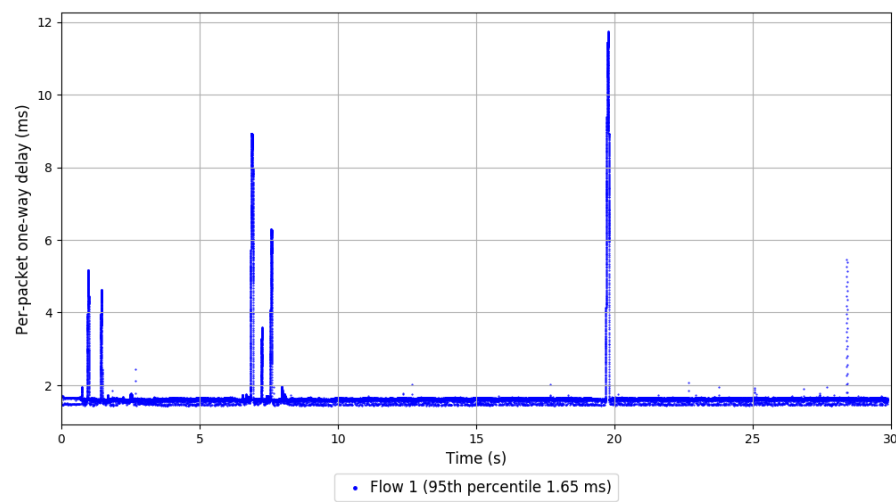
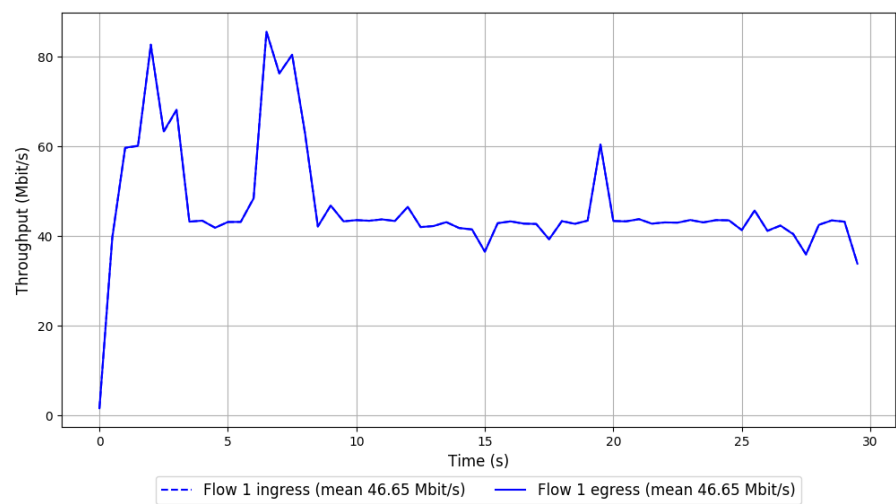
-- Flow 1:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 1.652 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



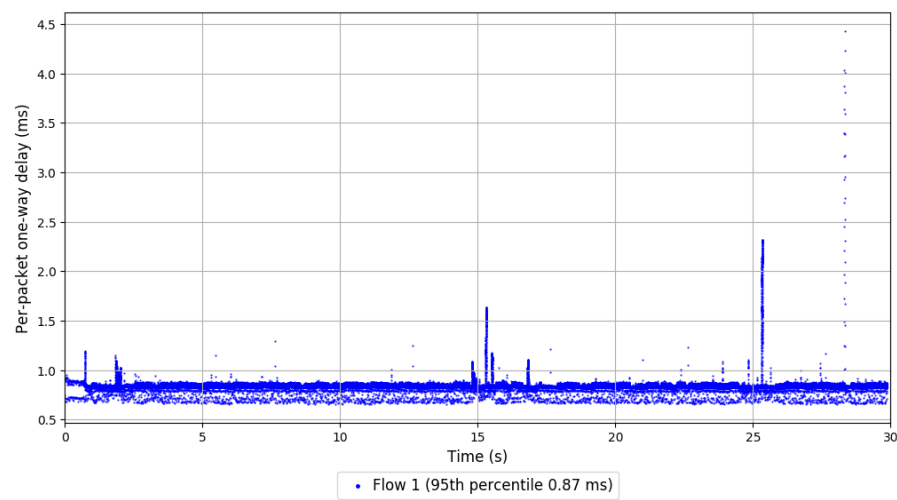
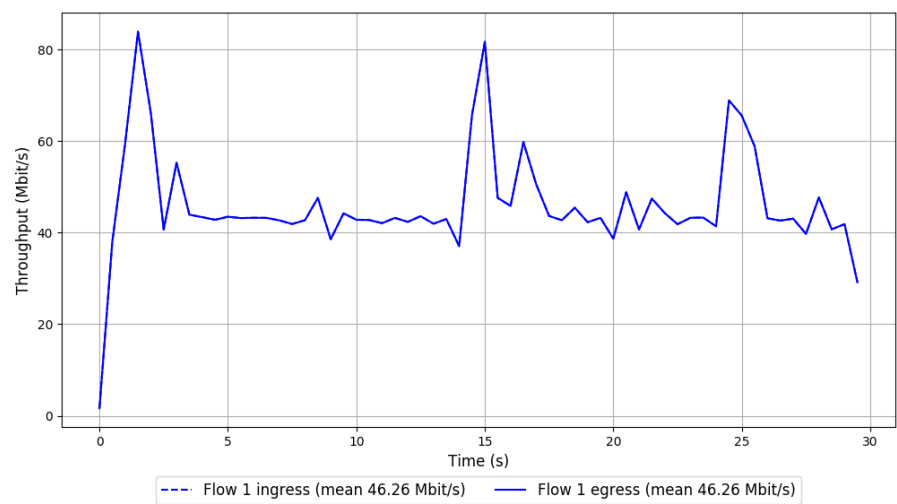
Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 02:43:08  
End at: 2018-04-17 02:43:38  
Local clock offset: -5.741 ms  
Remote clock offset: -6.157 ms

# Below is generated by plot.py at 2018-04-17 08:10:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.26 Mbit/s  
95th percentile per-packet one-way delay: 0.866 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 46.26 Mbit/s  
95th percentile per-packet one-way delay: 0.866 ms  
Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link

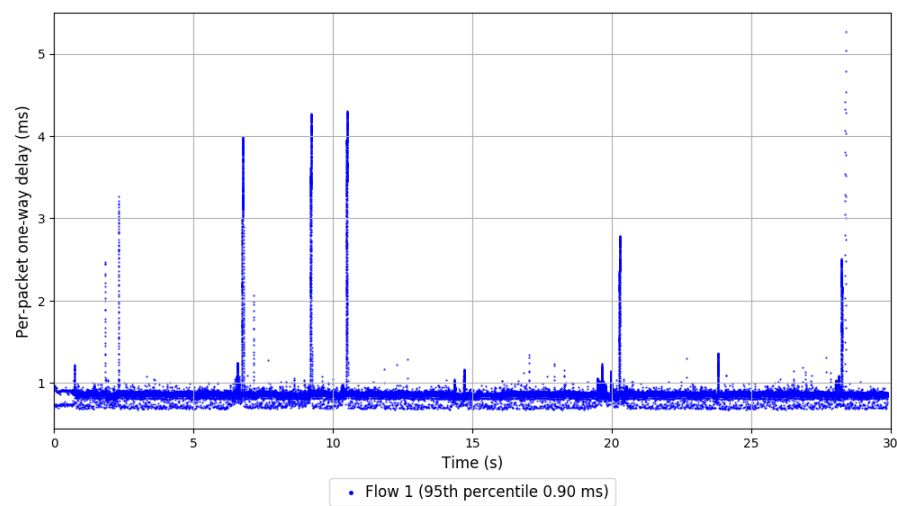
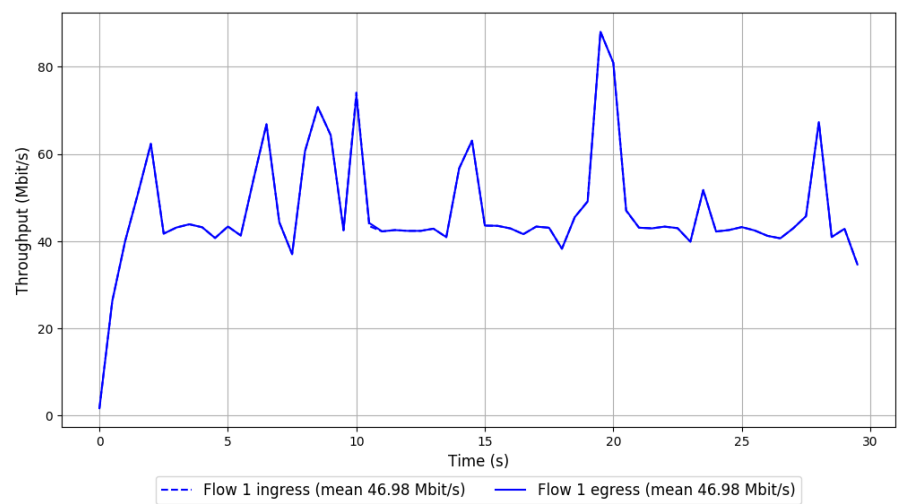


Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 03:02:10  
End at: 2018-04-17 03:02:40  
Local clock offset: -5.538 ms  
Remote clock offset: -6.533 ms

# Below is generated by plot.py at 2018-04-17 08:10:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.98 Mbit/s  
95th percentile per-packet one-way delay: 0.896 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 46.98 Mbit/s  
95th percentile per-packet one-way delay: 0.896 ms  
Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 03:21:13

End at: 2018-04-17 03:21:43

Local clock offset: -5.685 ms

Remote clock offset: -6.56 ms

# Below is generated by plot.py at 2018-04-17 08:10:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.49 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.01%

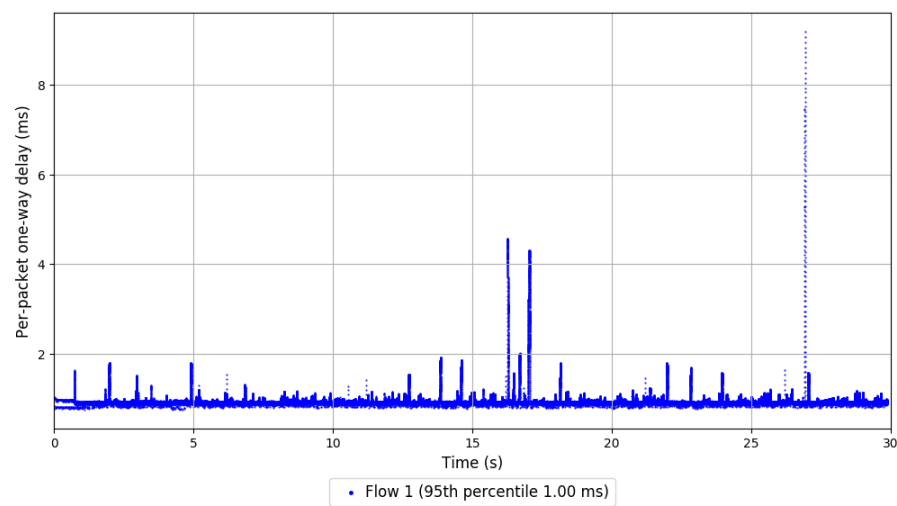
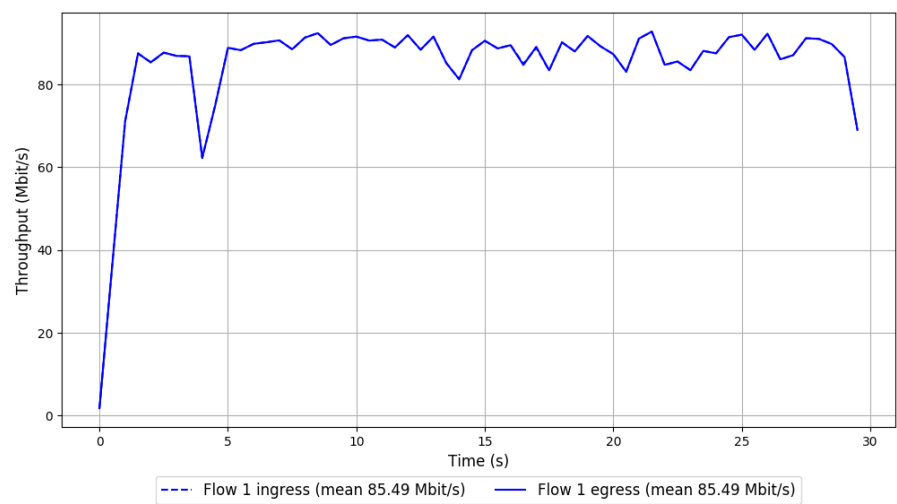
-- Flow 1:

Average throughput: 85.49 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.01%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 03:40:19

End at: 2018-04-17 03:40:49

Local clock offset: -6.58 ms

Remote clock offset: -6.988 ms

# Below is generated by plot.py at 2018-04-17 08:10:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.12 Mbit/s

95th percentile per-packet one-way delay: 0.077 ms

Loss rate: 0.01%

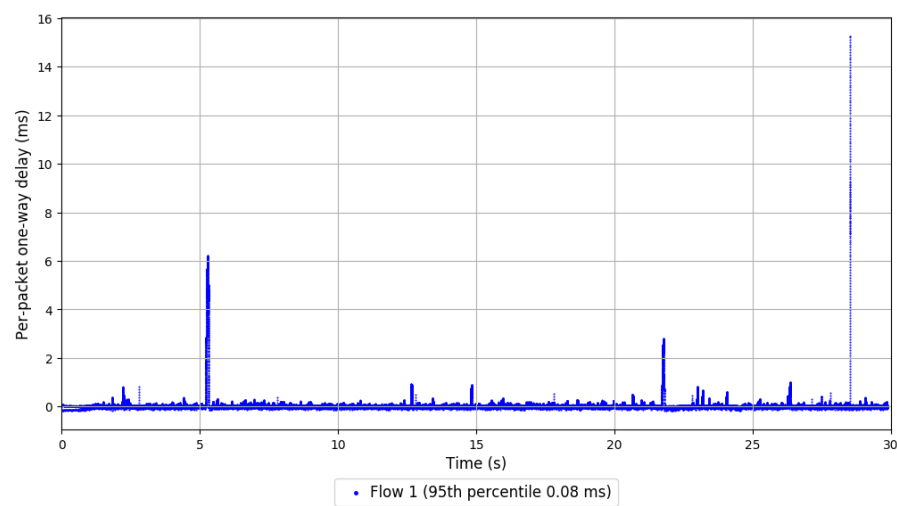
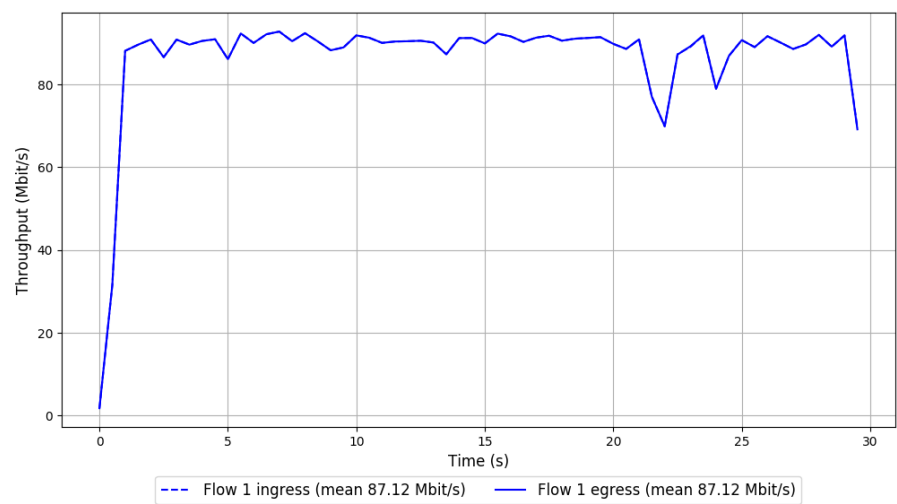
-- Flow 1:

Average throughput: 87.12 Mbit/s

95th percentile per-packet one-way delay: 0.077 ms

Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



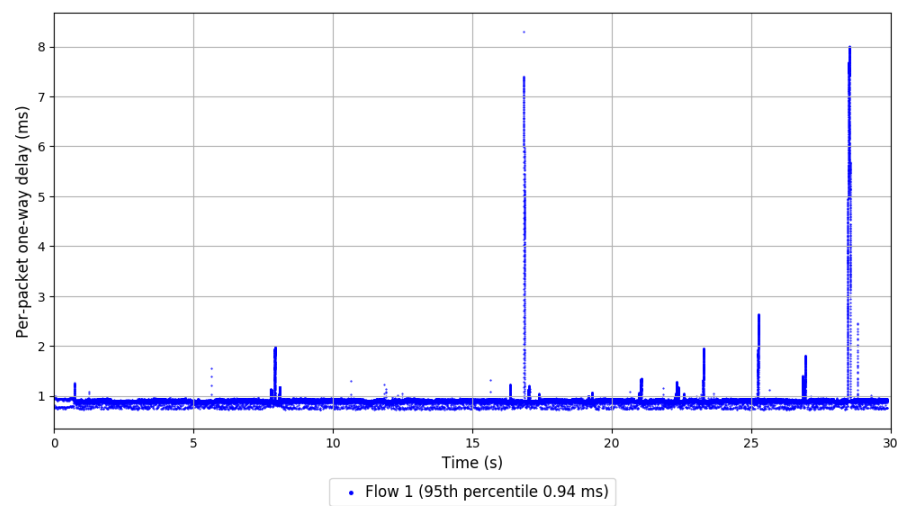
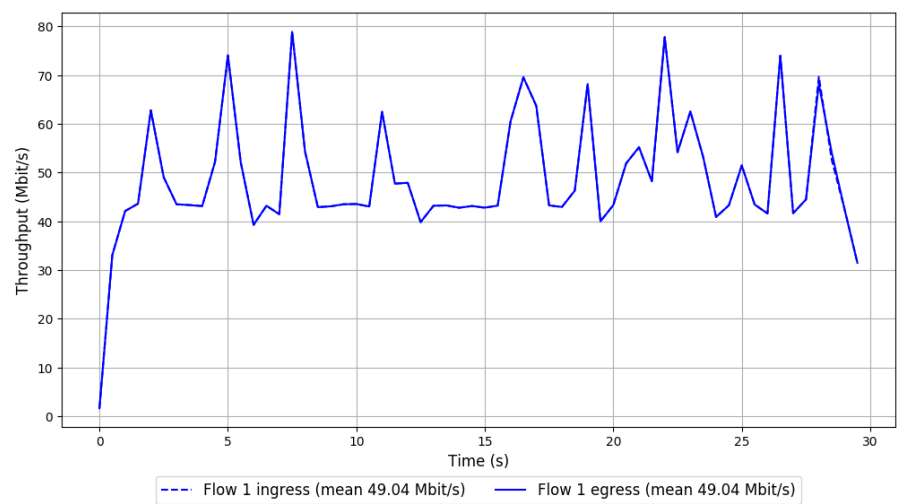
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 03:59:23  
End at: 2018-04-17 03:59:53  
Local clock offset: -5.777 ms  
Remote clock offset: -7.165 ms

# Below is generated by plot.py at 2018-04-17 08:10:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 49.04 Mbit/s  
95th percentile per-packet one-way delay: 0.935 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 49.04 Mbit/s  
95th percentile per-packet one-way delay: 0.935 ms  
Loss rate: 0.00%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 04:18:26

End at: 2018-04-17 04:18:56

Local clock offset: -5.819 ms

Remote clock offset: -7.025 ms

# Below is generated by plot.py at 2018-04-17 08:10:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 0.916 ms

Loss rate: 0.01%

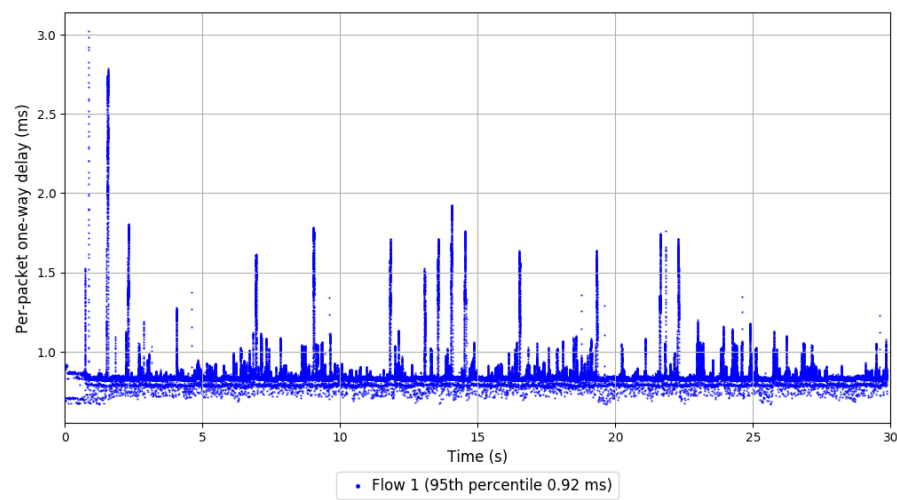
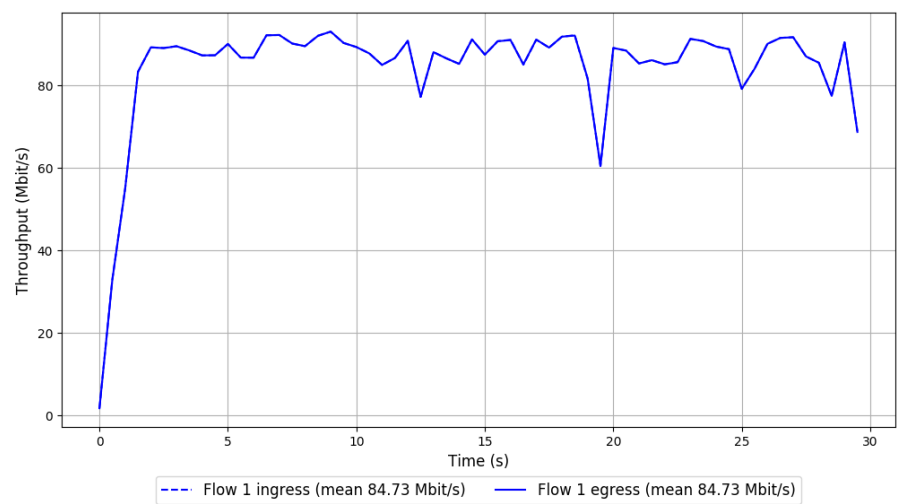
-- Flow 1:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 0.916 ms

Loss rate: 0.01%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 01:24:50  
End at: 2018-04-17 01:25:20  
Local clock offset: -4.754 ms  
Remote clock offset: -6.668 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 01:43:54

End at: 2018-04-17 01:44:24

Local clock offset: -5.651 ms

Remote clock offset: -6.657 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

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

End at: 2018-04-17 02:03:20

Local clock offset: -5.015 ms

Remote clock offset: -6.916 ms



Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 02:21:52

End at: 2018-04-17 02:22:22

Local clock offset: -6.064 ms

Remote clock offset: -6.624 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 02:40:54

End at: 2018-04-17 02:41:24

Local clock offset: -5.779 ms

Remote clock offset: -6.193 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 02:59:56

End at: 2018-04-17 03:00:26

Local clock offset: -5.594 ms

Remote clock offset: -6.537 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 03:18:59

End at: 2018-04-17 03:19:29

Local clock offset: -4.906 ms

Remote clock offset: -6.54 ms



Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 03:38:04

End at: 2018-04-17 03:38:34

Local clock offset: -6.504 ms

Remote clock offset: -6.964 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 03:57:08

End at: 2018-04-17 03:57:38

Local clock offset: -5.751 ms

Remote clock offset: -7.122 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

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

End at: 2018-04-17 04:16:42

Local clock offset: -6.54 ms

Remote clock offset: -7.016 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing