

Pantheon Report

Generated at 2018-04-10 17:32:54 (UTC).

Data path: China Ethernet (*remote*) → AWS Korea Ethernet (*local*).

Repeated the test of 17 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).

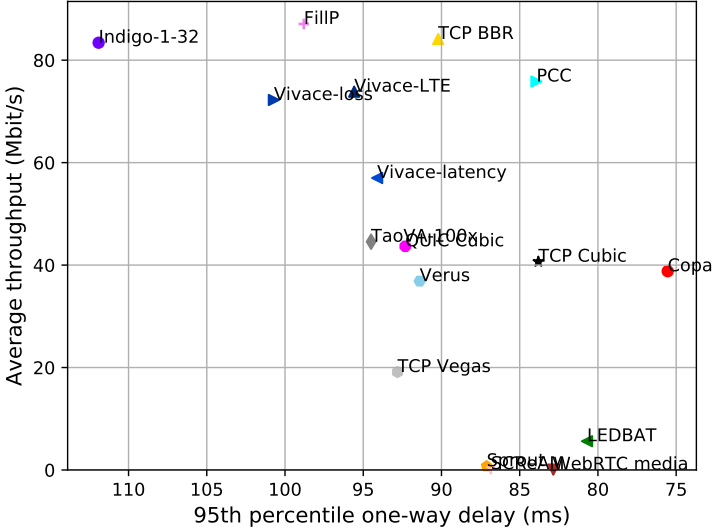
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

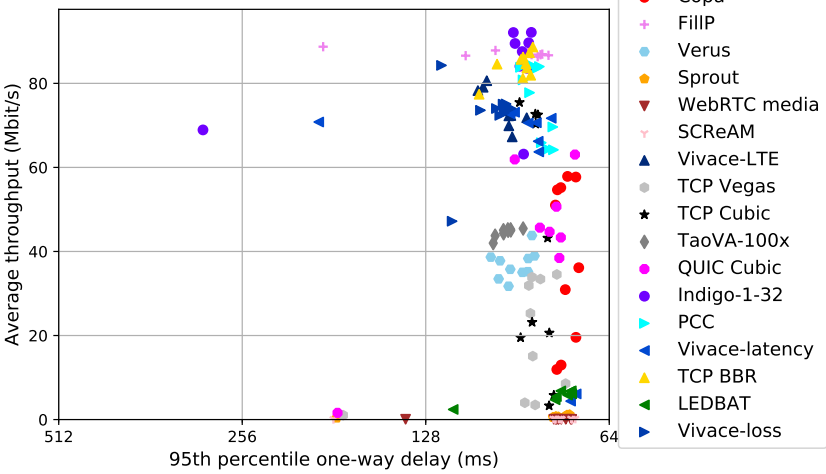
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
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 China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from China Ethernet to AWS Korea 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	84.14	90.21	0.88
TCP Cubic	10	40.66	83.81	1.45
LEDBAT	8	5.62	80.70	1.37
PCC	10	75.83	83.93	0.93
QUIC Cubic	8	43.67	92.32	1.02
SCReAM	10	0.18	86.85	0.83
WebRTC media	10	0.07	82.85	0.01
Sprout	10	0.74	87.11	0.84
TaoVA-100x	9	44.56	94.50	2.00
TCP Vegas	10	19.12	92.81	0.89
Verus	10	36.87	91.39	0.92
Copa	10	38.80	75.54	1.00
FillP	10	87.07	98.80	1.15
Indigo-1-32	9	83.41	111.91	2.56
Vivace-latency	10	57.00	94.11	1.72
Vivace-loss	10	72.23	100.71	1.64
Vivace-LTE	10	73.86	95.58	1.56

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 09:07:28

End at: 2018-04-10 09:07:58

Local clock offset: 2.085 ms

Remote clock offset: 7.846 ms

Below is generated by plot.py at 2018-04-10 17:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.71 Mbit/s

95th percentile per-packet one-way delay: 89.324 ms

Loss rate: 0.86%

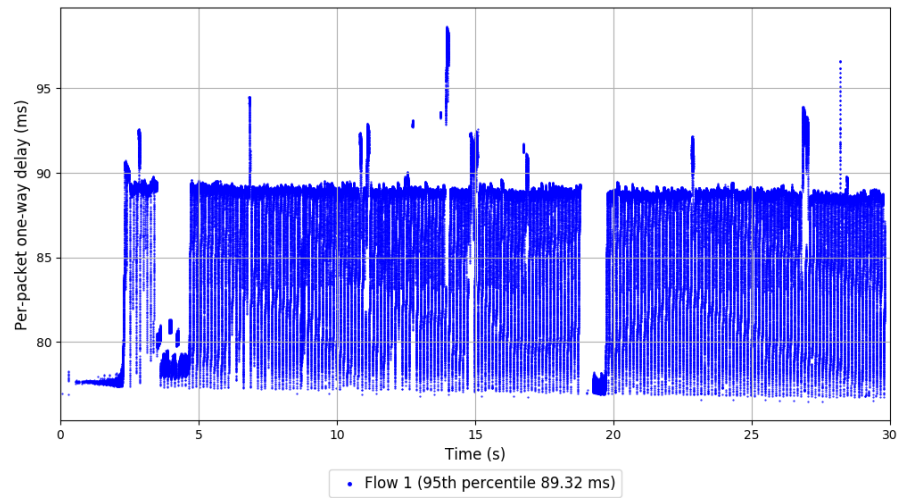
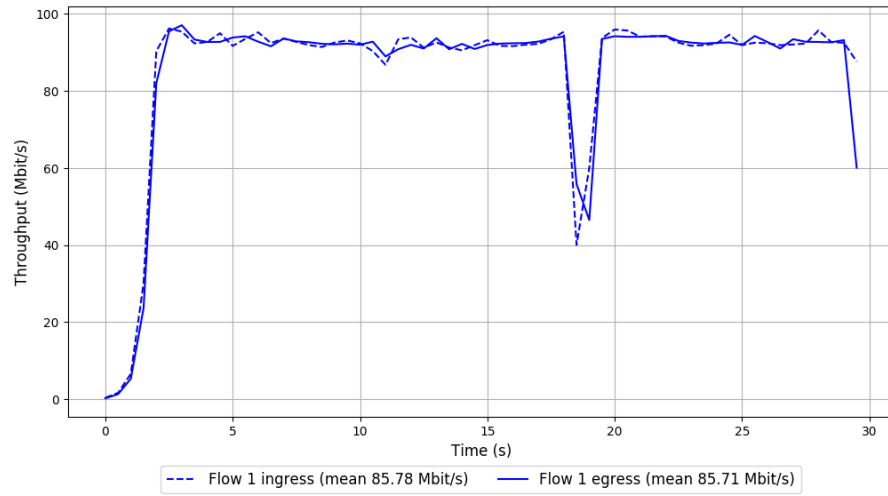
-- Flow 1:

Average throughput: 85.71 Mbit/s

95th percentile per-packet one-way delay: 89.324 ms

Loss rate: 0.86%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 09:33:26

End at: 2018-04-10 09:33:56

Local clock offset: 2.431 ms

Remote clock offset: -6.382 ms

Below is generated by plot.py at 2018-04-10 17:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.41 Mbit/s

95th percentile per-packet one-way delay: 104.626 ms

Loss rate: 0.92%

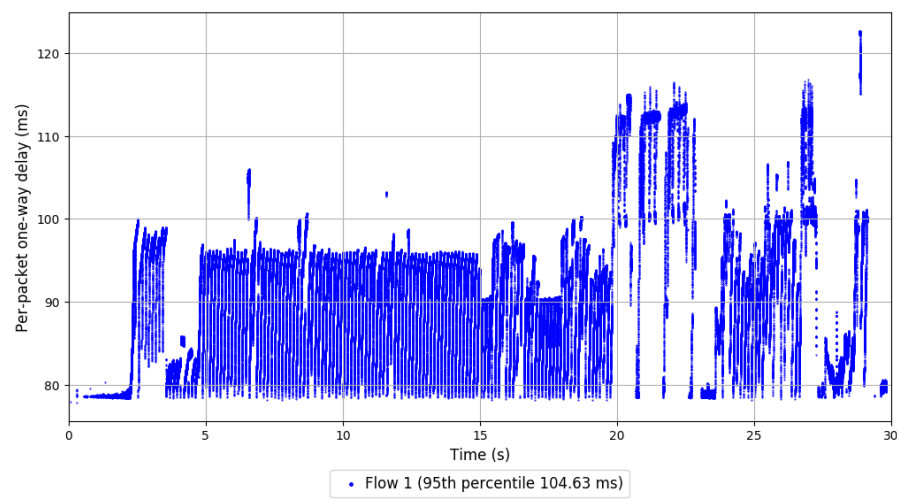
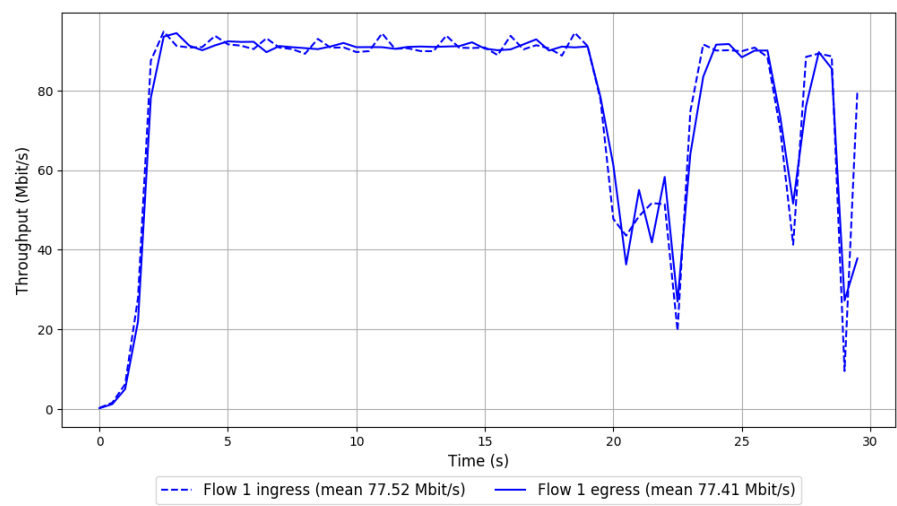
-- Flow 1:

Average throughput: 77.41 Mbit/s

95th percentile per-packet one-way delay: 104.626 ms

Loss rate: 0.92%

Run 2: Report of TCP BBR — Data Link

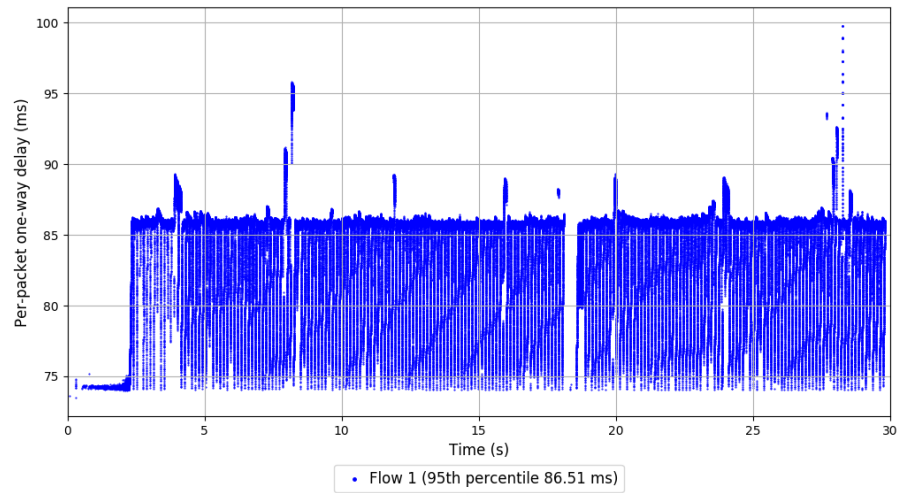
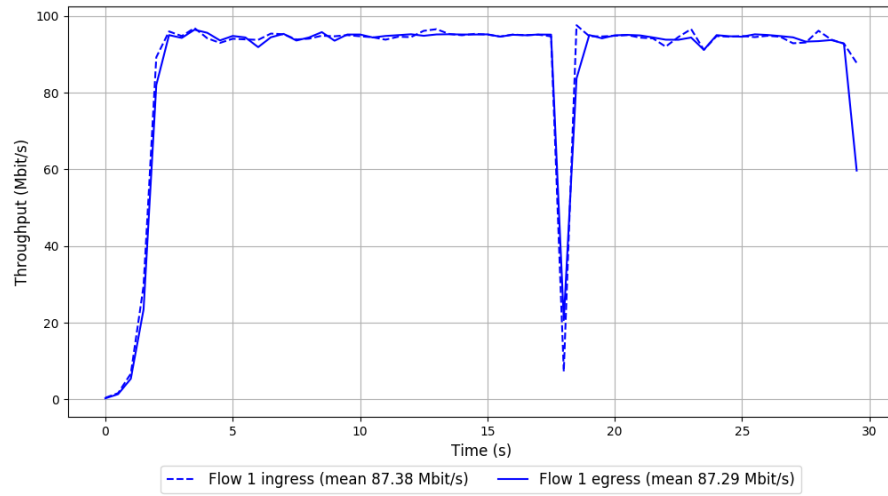


Run 3: Statistics of TCP BBR

Start at: 2018-04-10 09:57:46
End at: 2018-04-10 09:58:16
Local clock offset: 1.38 ms
Remote clock offset: -6.792 ms

Below is generated by plot.py at 2018-04-10 17:17:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 86.506 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 87.29 Mbit/s
95th percentile per-packet one-way delay: 86.506 ms
Loss rate: 0.85%

Run 3: Report of TCP BBR — Data Link

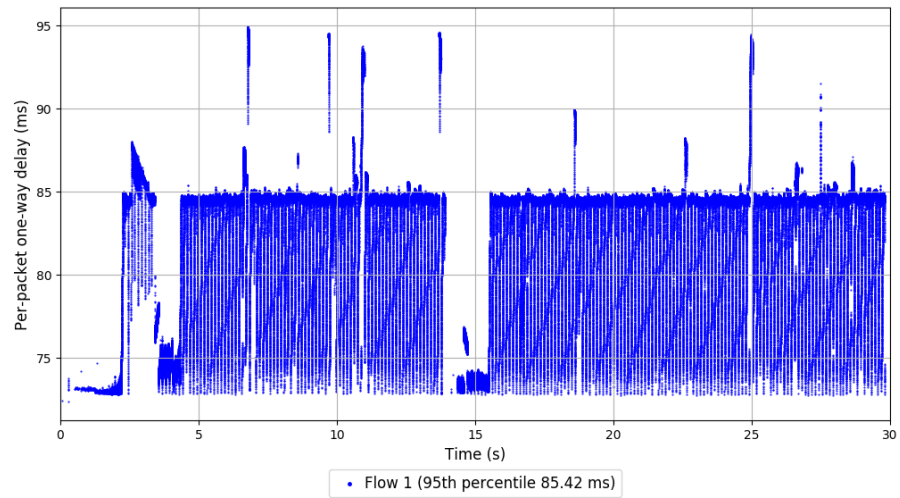
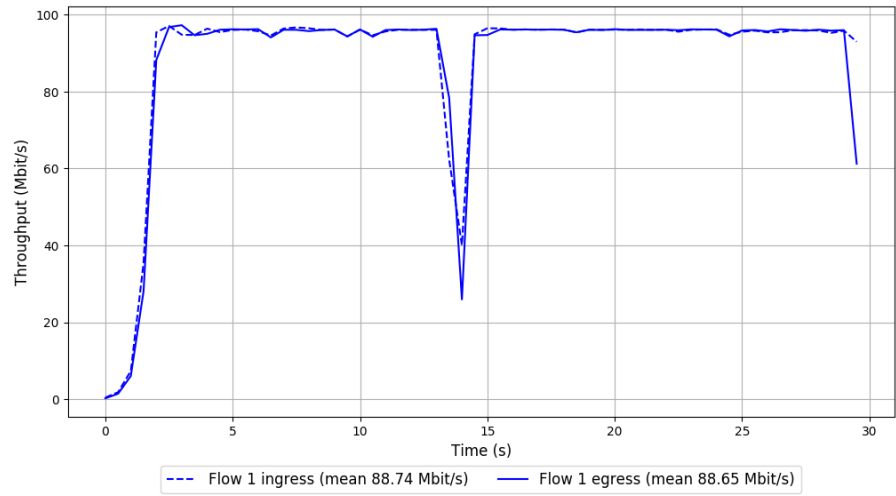


Run 4: Statistics of TCP BBR

Start at: 2018-04-10 10:23:36
End at: 2018-04-10 10:24:06
Local clock offset: 1.865 ms
Remote clock offset: -11.497 ms

Below is generated by plot.py at 2018-04-10 17:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.65 Mbit/s
95th percentile per-packet one-way delay: 85.415 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 88.65 Mbit/s
95th percentile per-packet one-way delay: 85.415 ms
Loss rate: 0.86%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 10:50:31

End at: 2018-04-10 10:51:01

Local clock offset: 1.907 ms

Remote clock offset: 6.793 ms

Below is generated by plot.py at 2018-04-10 17:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.67 Mbit/s

95th percentile per-packet one-way delay: 87.362 ms

Loss rate: 0.91%

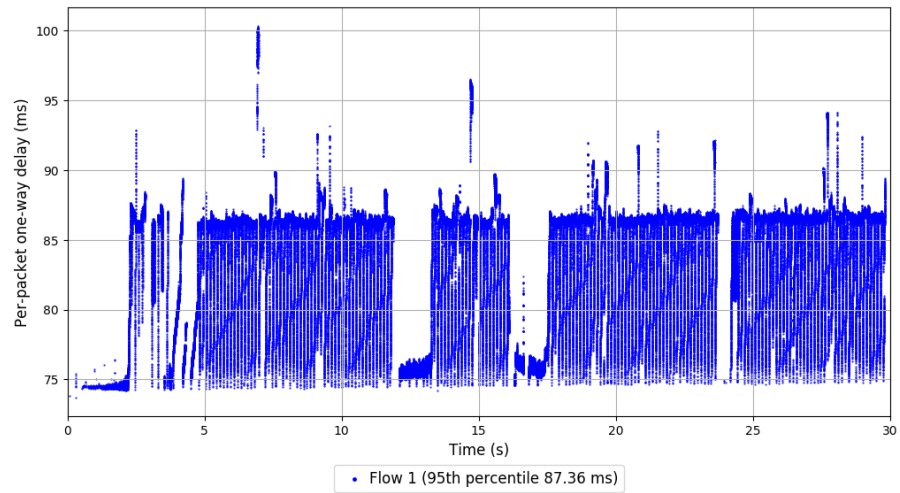
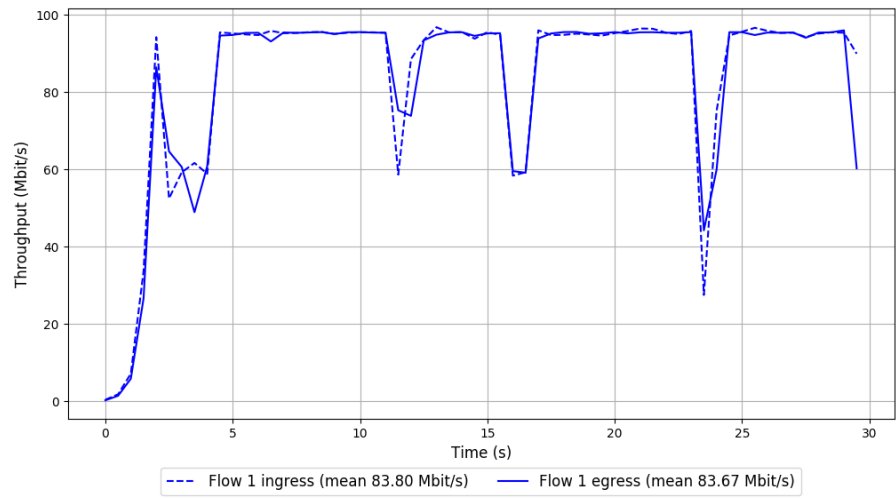
-- Flow 1:

Average throughput: 83.67 Mbit/s

95th percentile per-packet one-way delay: 87.362 ms

Loss rate: 0.91%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 11:15:20

End at: 2018-04-10 11:15:50

Local clock offset: 1.846 ms

Remote clock offset: 21.588 ms

Below is generated by plot.py at 2018-04-10 17:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.93 Mbit/s

95th percentile per-packet one-way delay: 86.104 ms

Loss rate: 0.90%

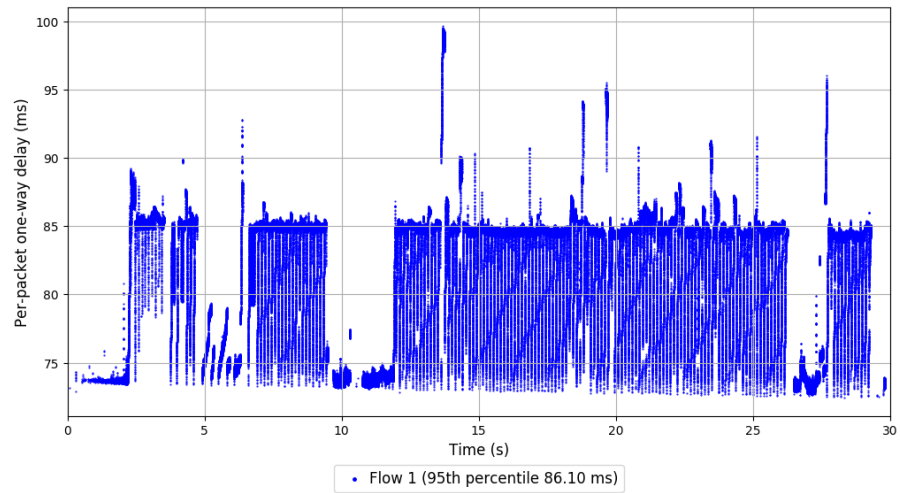
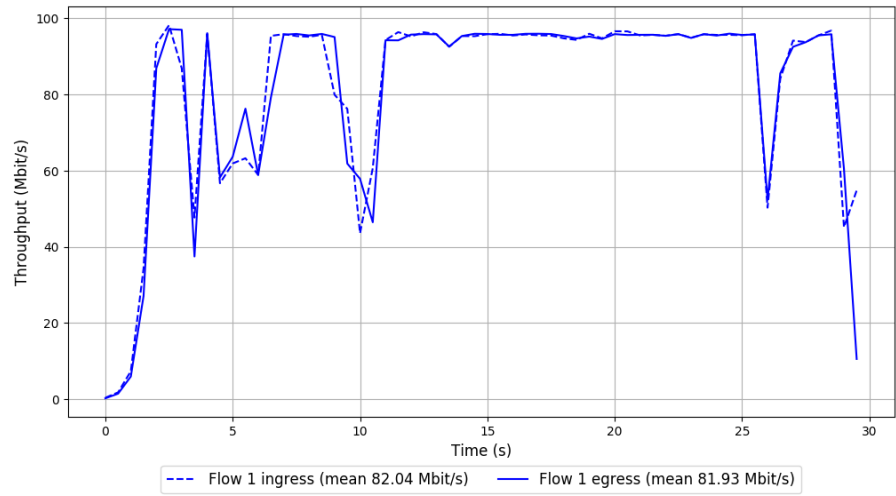
-- Flow 1:

Average throughput: 81.93 Mbit/s

95th percentile per-packet one-way delay: 86.104 ms

Loss rate: 0.90%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 11:40:12

End at: 2018-04-10 11:40:42

Local clock offset: 30.901 ms

Remote clock offset: -0.75 ms

Below is generated by plot.py at 2018-04-10 17:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 88.631 ms

Loss rate: 0.90%

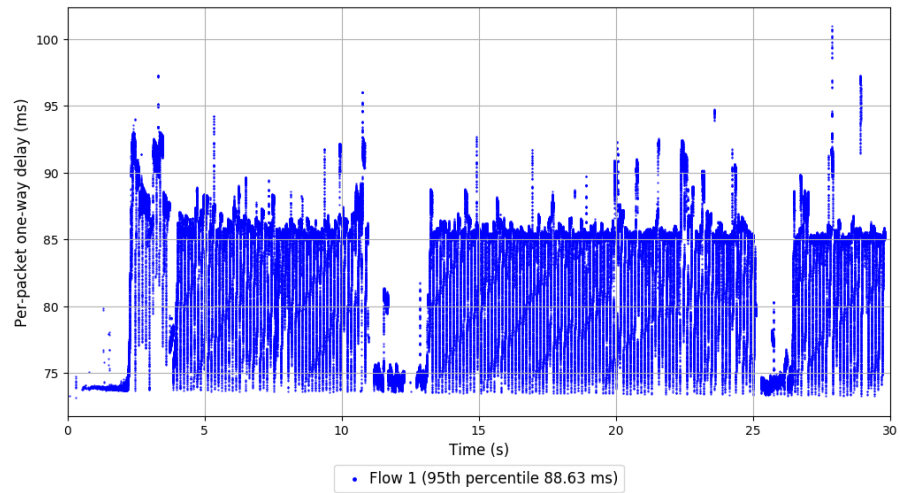
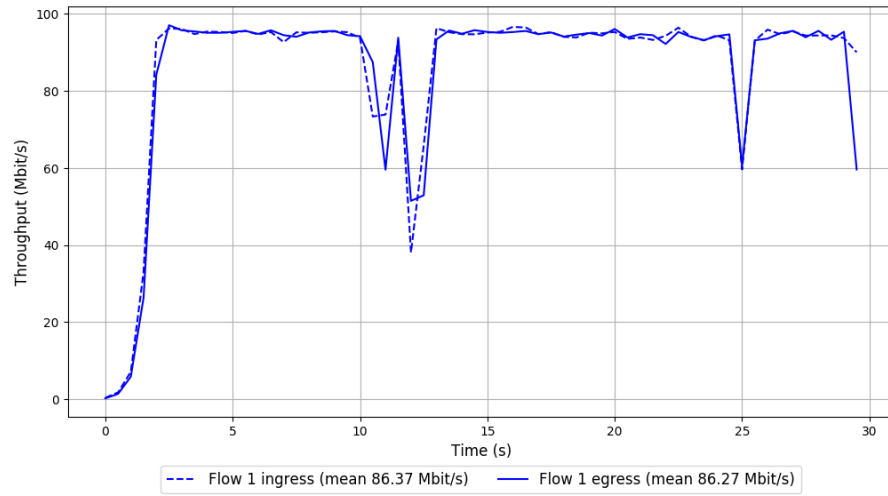
-- Flow 1:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 88.631 ms

Loss rate: 0.90%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 12:05:06

End at: 2018-04-10 12:05:36

Local clock offset: 43.992 ms

Remote clock offset: 4.711 ms

Below is generated by plot.py at 2018-04-10 17:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.17 Mbit/s

95th percentile per-packet one-way delay: 88.692 ms

Loss rate: 0.92%

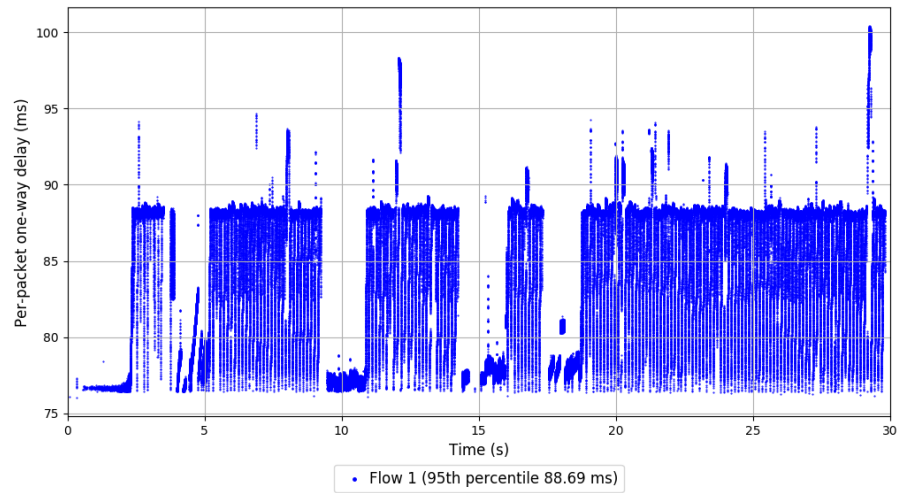
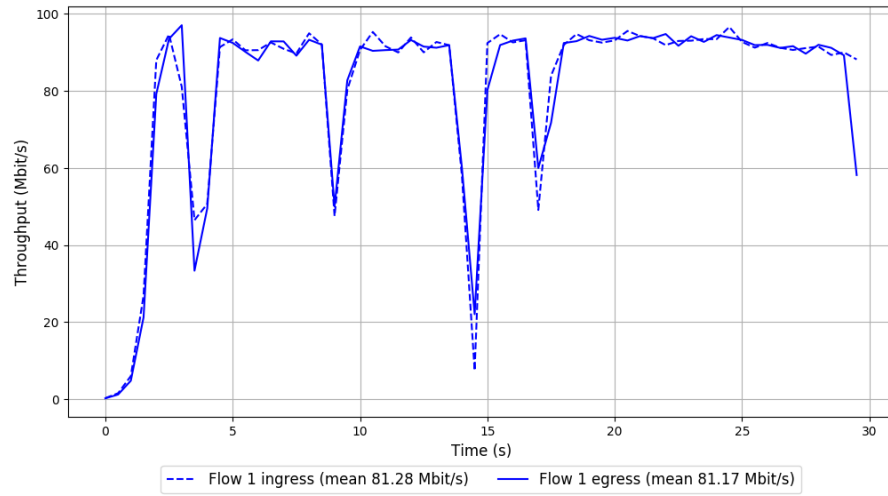
-- Flow 1:

Average throughput: 81.17 Mbit/s

95th percentile per-packet one-way delay: 88.692 ms

Loss rate: 0.92%

Run 8: Report of TCP BBR — Data Link

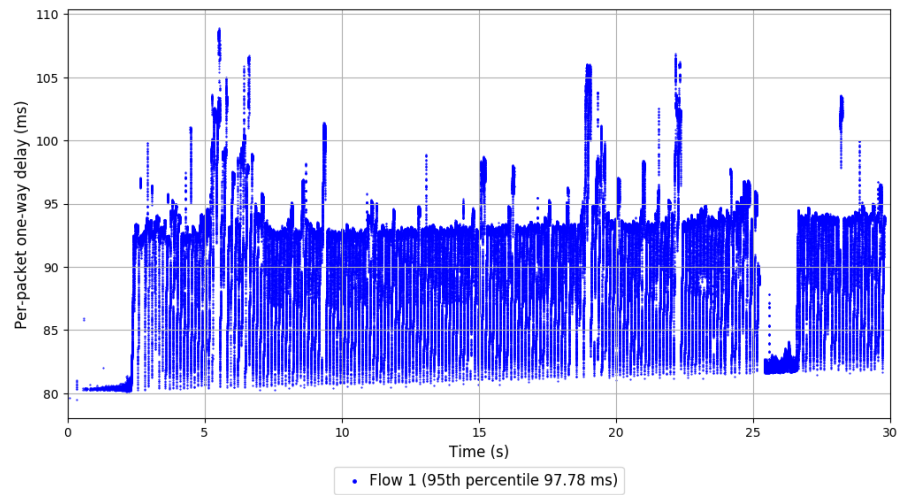
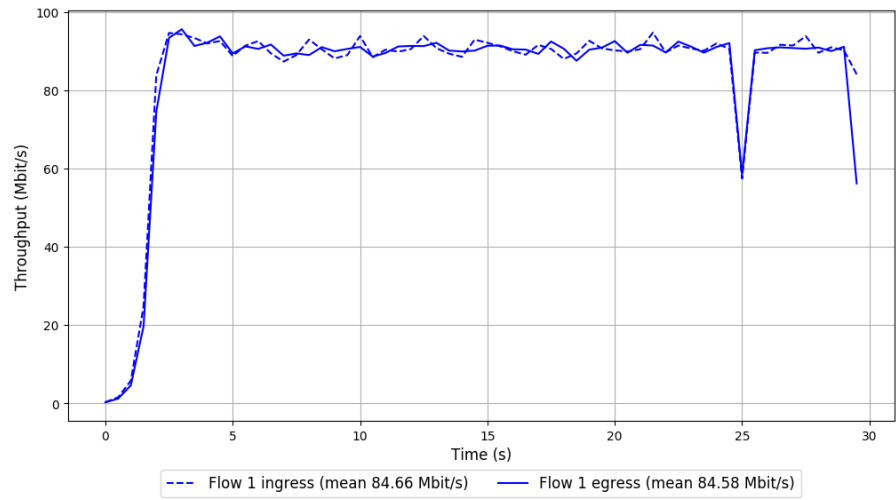


Run 9: Statistics of TCP BBR

Start at: 2018-04-10 12:29:39
End at: 2018-04-10 12:30:09
Local clock offset: 54.491 ms
Remote clock offset: 11.417 ms

Below is generated by plot.py at 2018-04-10 17:18:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.58 Mbit/s
95th percentile per-packet one-way delay: 97.775 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 84.58 Mbit/s
95th percentile per-packet one-way delay: 97.775 ms
Loss rate: 0.88%

Run 9: Report of TCP BBR — Data Link

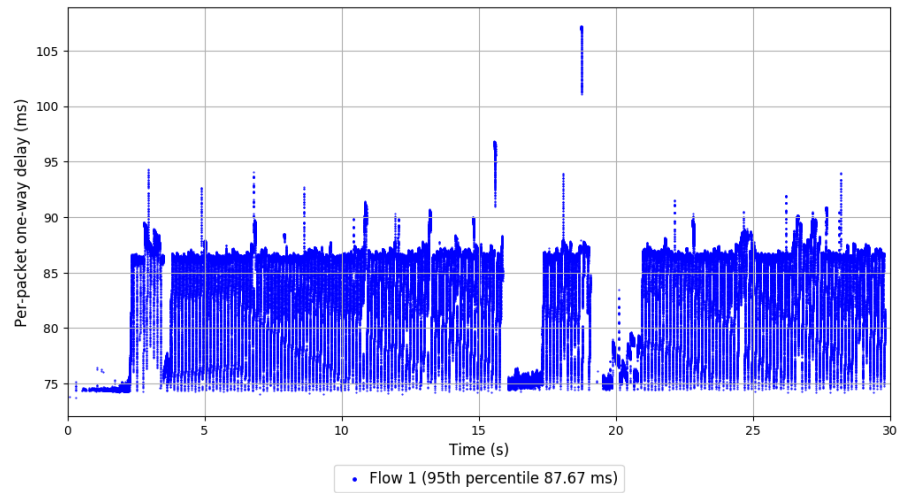
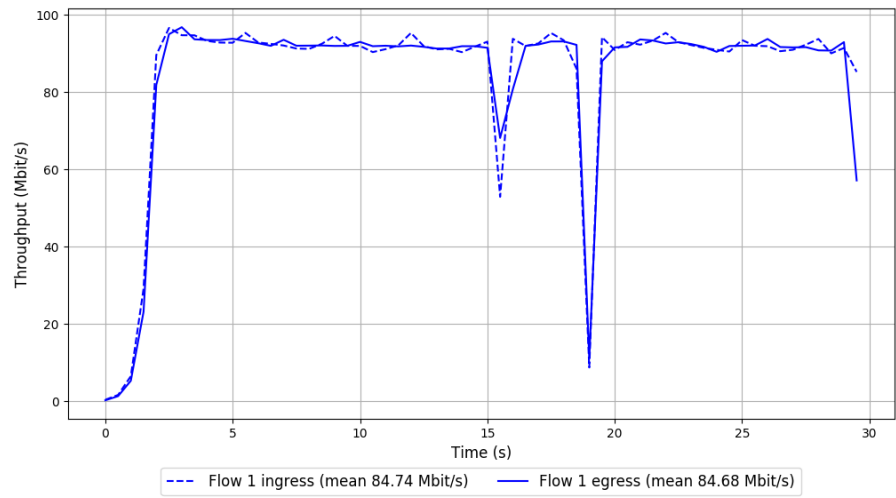


Run 10: Statistics of TCP BBR

Start at: 2018-04-10 12:54:44
End at: 2018-04-10 12:55:14
Local clock offset: 26.297 ms
Remote clock offset: 19.617 ms

Below is generated by plot.py at 2018-04-10 17:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 87.670 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 84.68 Mbit/s
95th percentile per-packet one-way delay: 87.670 ms
Loss rate: 0.84%

Run 10: Report of TCP BBR — Data Link

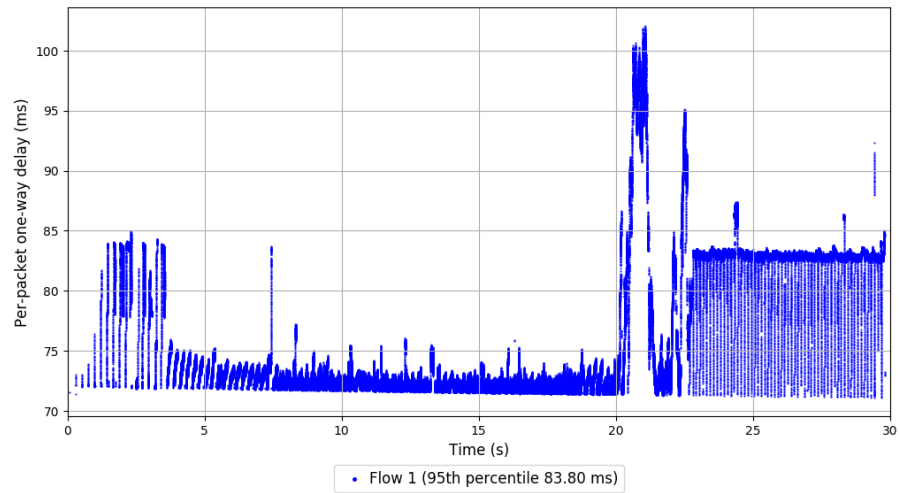
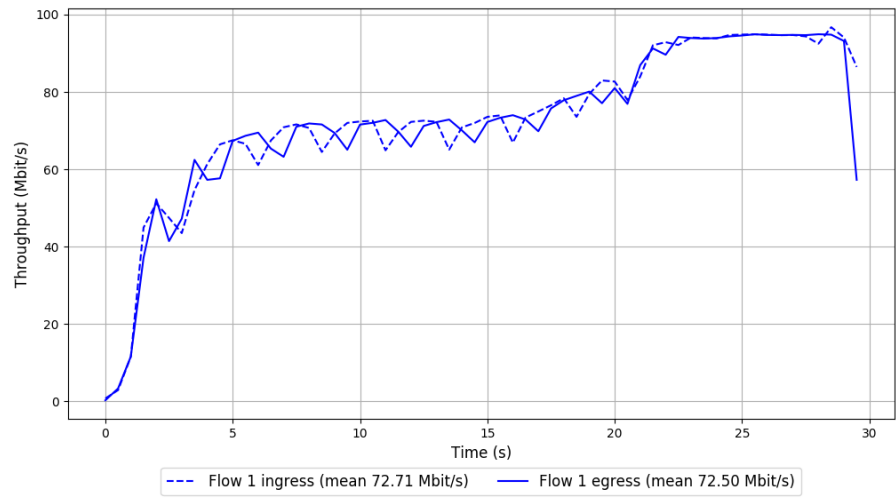


Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 09:04:34
End at: 2018-04-10 09:05:04
Local clock offset: 2.076 ms
Remote clock offset: 14.217 ms

Below is generated by plot.py at 2018-04-10 17:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.50 Mbit/s
95th percentile per-packet one-way delay: 83.801 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 72.50 Mbit/s
95th percentile per-packet one-way delay: 83.801 ms
Loss rate: 1.04%

Run 1: Report of TCP Cubic — Data Link

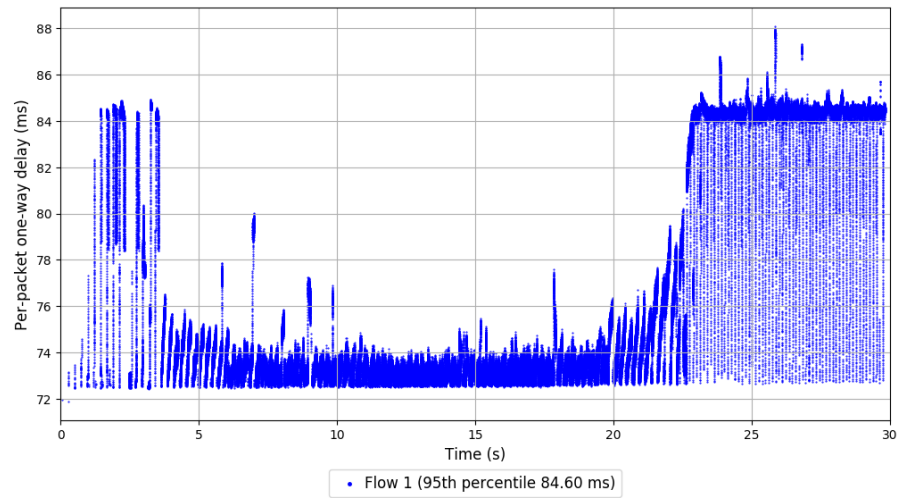
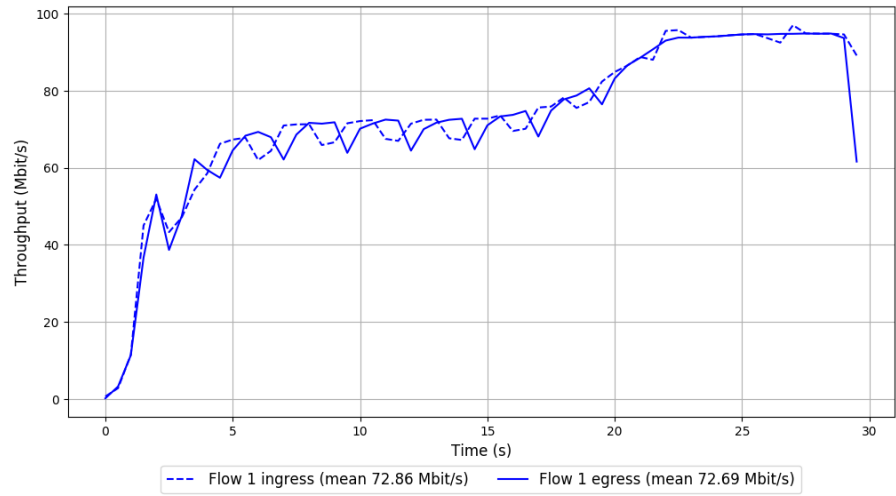


Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 09:30:41
End at: 2018-04-10 09:31:11
Local clock offset: 2.362 ms
Remote clock offset: -7.488 ms

Below is generated by plot.py at 2018-04-10 17:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.69 Mbit/s
95th percentile per-packet one-way delay: 84.604 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 72.69 Mbit/s
95th percentile per-packet one-way delay: 84.604 ms
Loss rate: 1.00%

Run 2: Report of TCP Cubic — Data Link

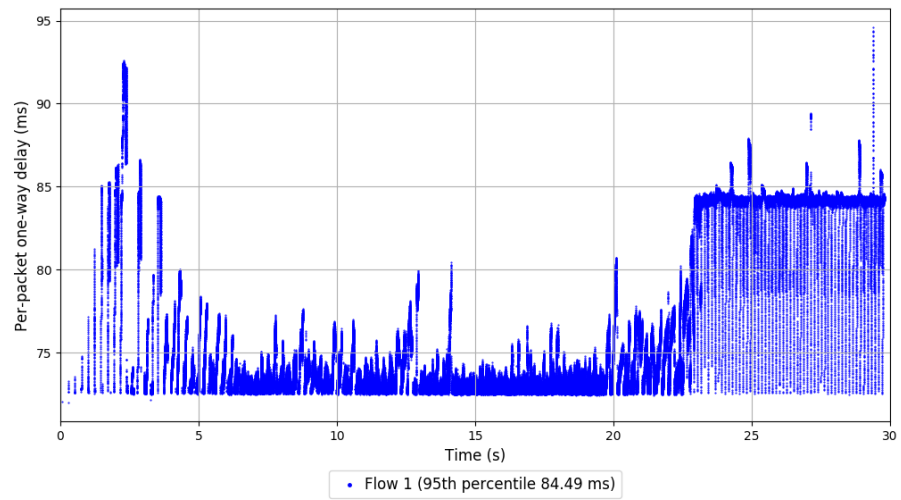
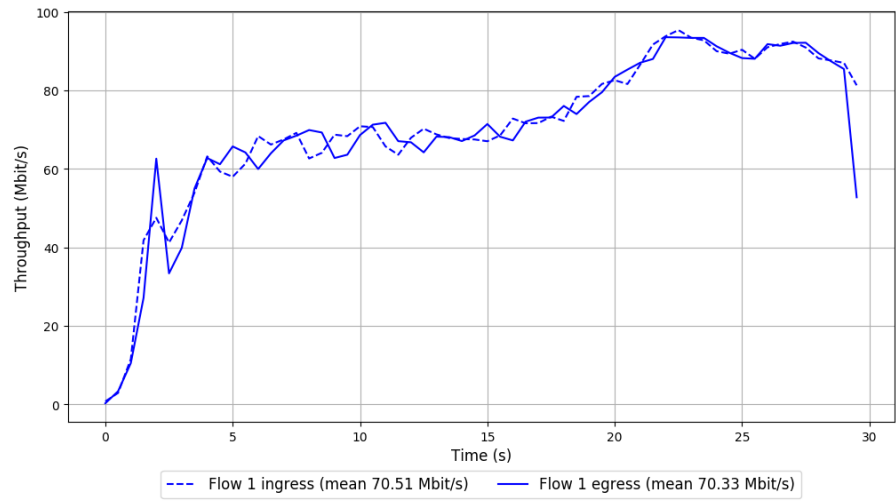


Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 09:55:01
End at: 2018-04-10 09:55:31
Local clock offset: 1.299 ms
Remote clock offset: -6.462 ms

Below is generated by plot.py at 2018-04-10 17:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.33 Mbit/s
95th percentile per-packet one-way delay: 84.494 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 70.33 Mbit/s
95th percentile per-packet one-way delay: 84.494 ms
Loss rate: 1.04%

Run 3: Report of TCP Cubic — Data Link

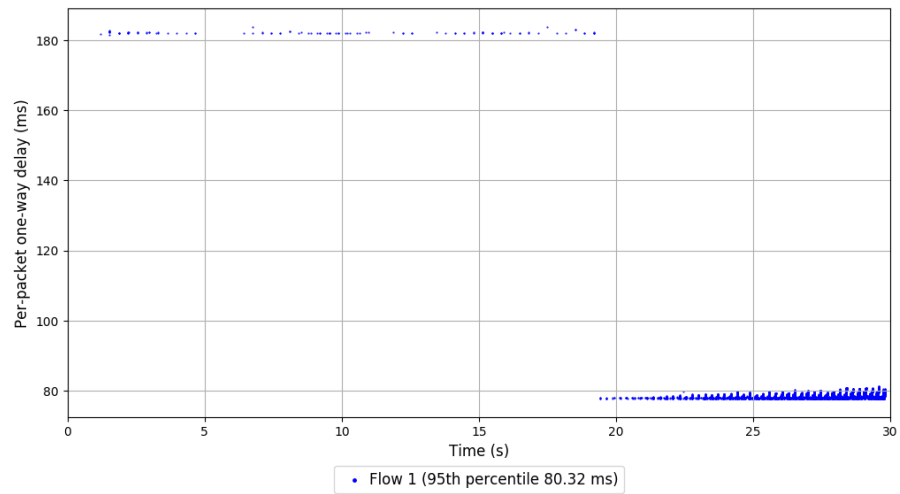
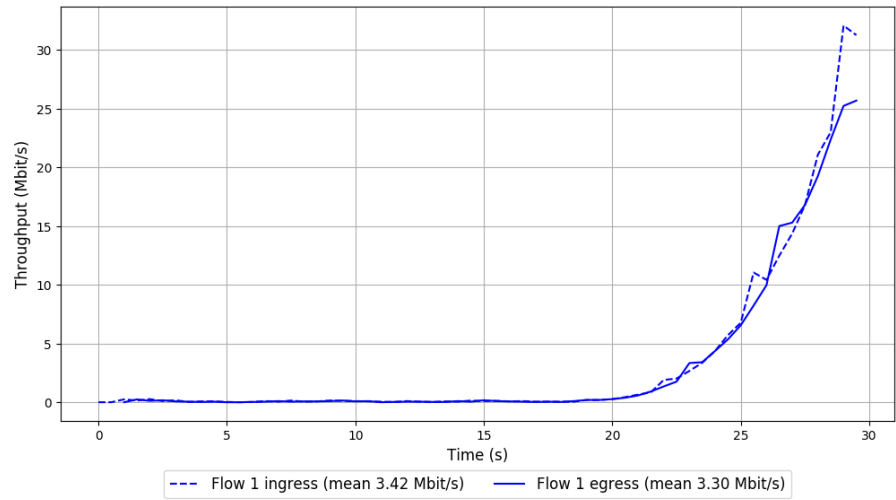


Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 10:20:45
End at: 2018-04-10 10:21:15
Local clock offset: 1.581 ms
Remote clock offset: -11.014 ms

Below is generated by plot.py at 2018-04-10 17:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 80.320 ms
Loss rate: 7.84%
-- Flow 1:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 80.320 ms
Loss rate: 7.84%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 10:47:49

End at: 2018-04-10 10:48:19

Local clock offset: 2.017 ms

Remote clock offset: 2.815 ms

Below is generated by plot.py at 2018-04-10 17:18:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 78.906 ms

Loss rate: 0.49%

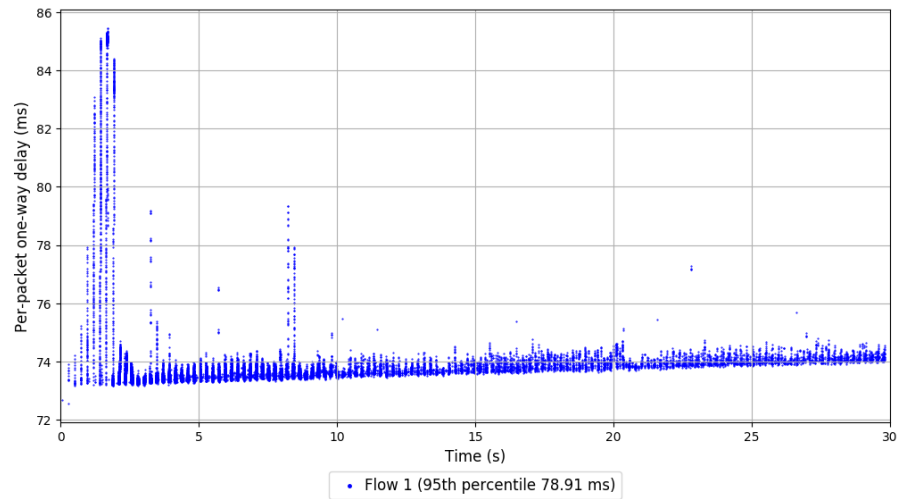
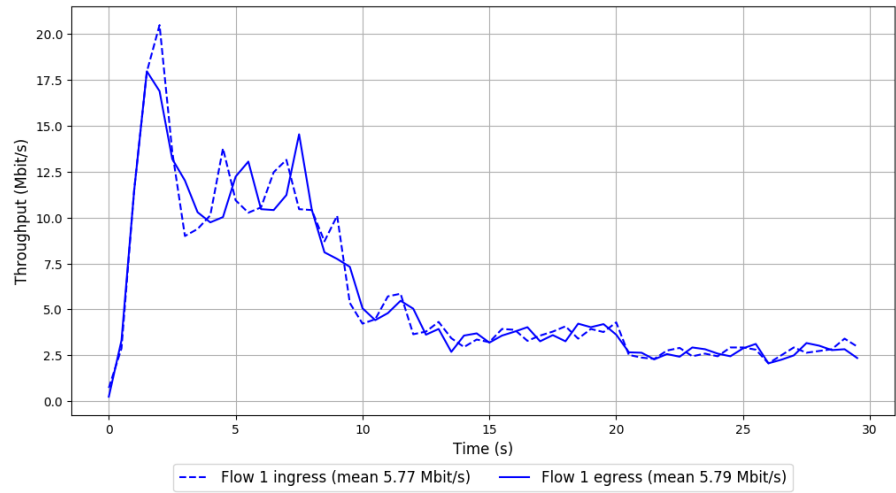
-- Flow 1:

Average throughput: 5.79 Mbit/s

95th percentile per-packet one-way delay: 78.906 ms

Loss rate: 0.49%

Run 5: Report of TCP Cubic — Data Link

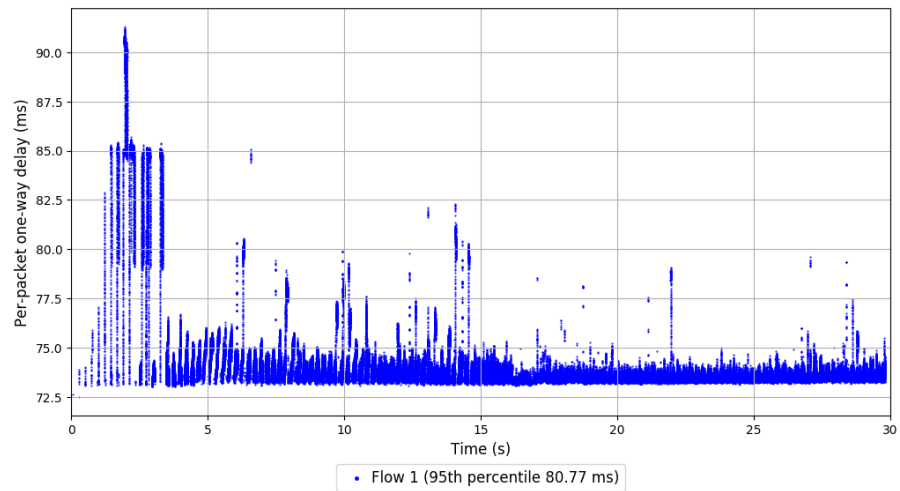
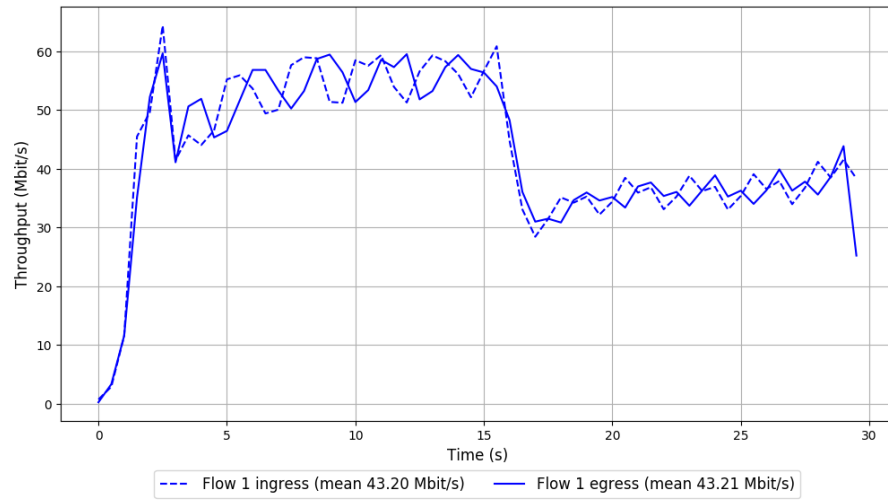


Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 11:12:32
End at: 2018-04-10 11:13:02
Local clock offset: 2.002 ms
Remote clock offset: 21.876 ms

Below is generated by plot.py at 2018-04-10 17:18:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.21 Mbit/s
95th percentile per-packet one-way delay: 80.774 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 43.21 Mbit/s
95th percentile per-packet one-way delay: 80.774 ms
Loss rate: 0.73%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 11:37:28

End at: 2018-04-10 11:37:58

Local clock offset: 28.589 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-04-10 17:18:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 89.817 ms

Loss rate: 0.99%

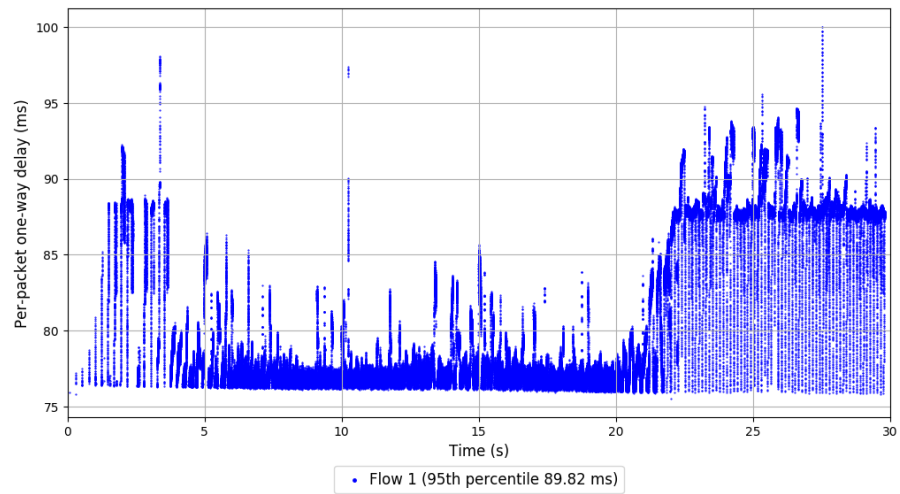
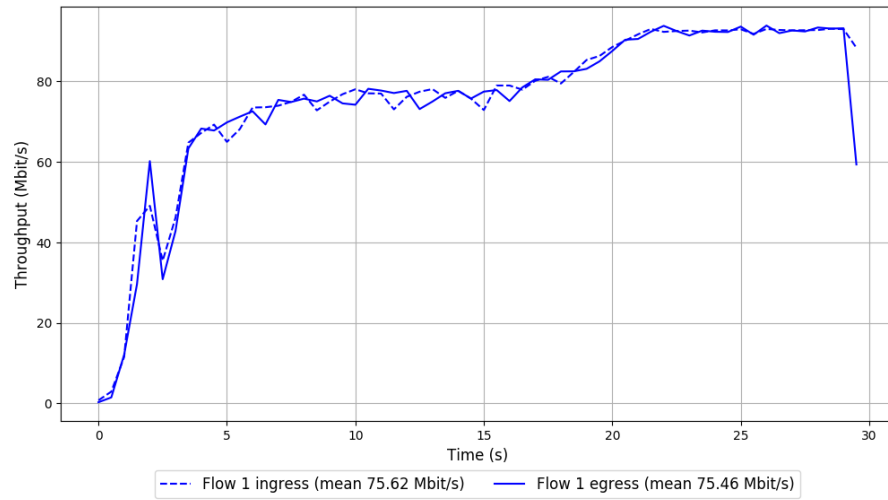
-- Flow 1:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 89.817 ms

Loss rate: 0.99%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 12:02:23

End at: 2018-04-10 12:02:53

Local clock offset: 42.814 ms

Remote clock offset: 4.285 ms

Below is generated by plot.py at 2018-04-10 17:18:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.17 Mbit/s

95th percentile per-packet one-way delay: 85.655 ms

Loss rate: 0.77%

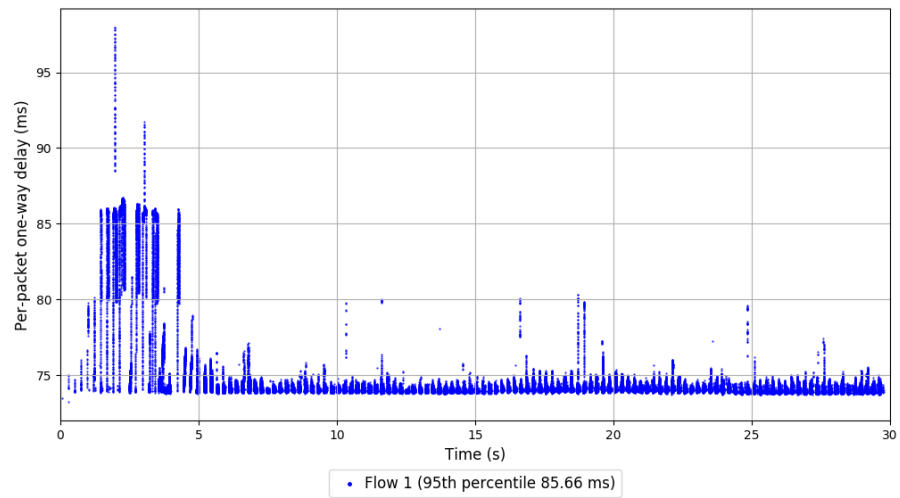
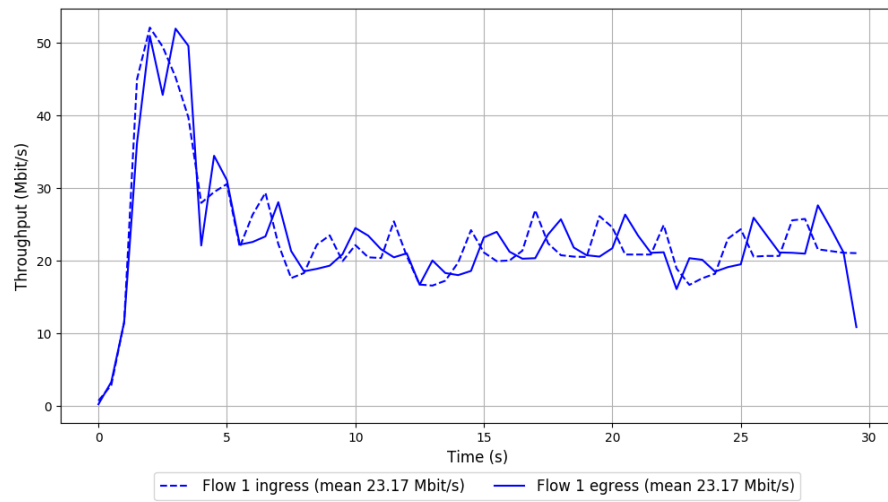
-- Flow 1:

Average throughput: 23.17 Mbit/s

95th percentile per-packet one-way delay: 85.655 ms

Loss rate: 0.77%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 12:26:43

End at: 2018-04-10 12:27:13

Local clock offset: 53.342 ms

Remote clock offset: 9.19 ms

Below is generated by plot.py at 2018-04-10 17:18:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.62 Mbit/s

95th percentile per-packet one-way delay: 80.256 ms

Loss rate: 0.28%

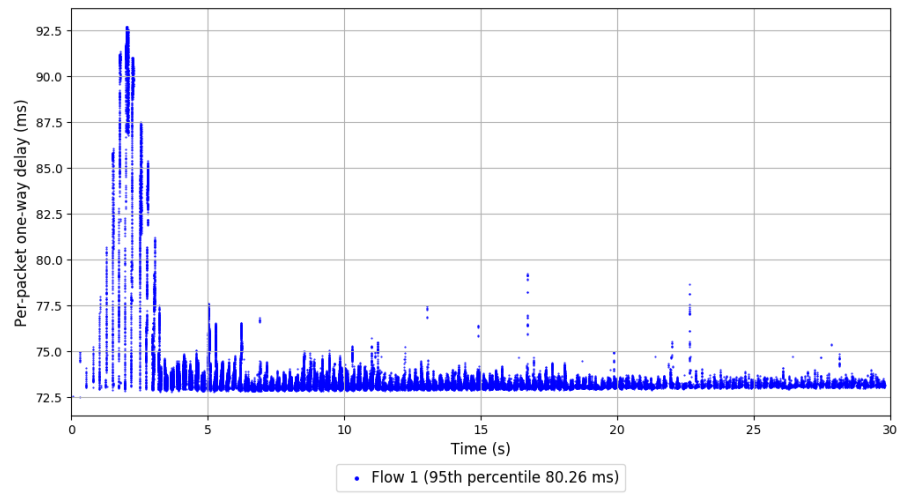
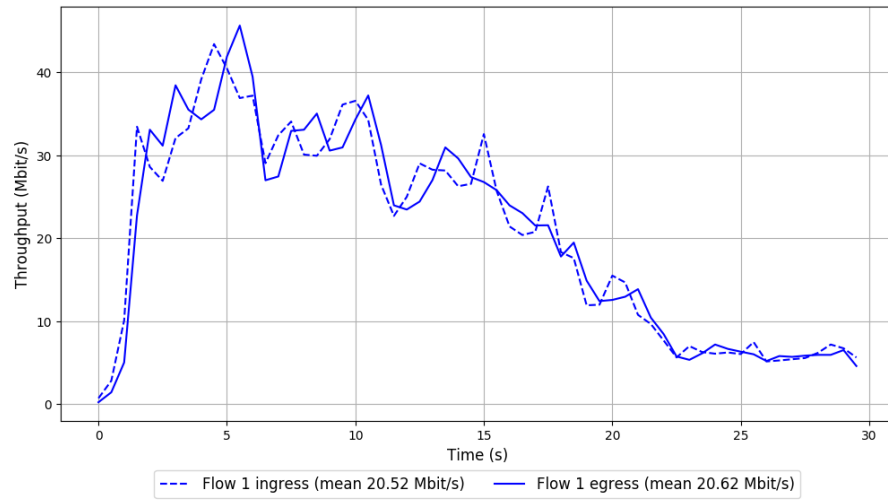
-- Flow 1:

Average throughput: 20.62 Mbit/s

95th percentile per-packet one-way delay: 80.256 ms

Loss rate: 0.28%

Run 9: Report of TCP Cubic — Data Link

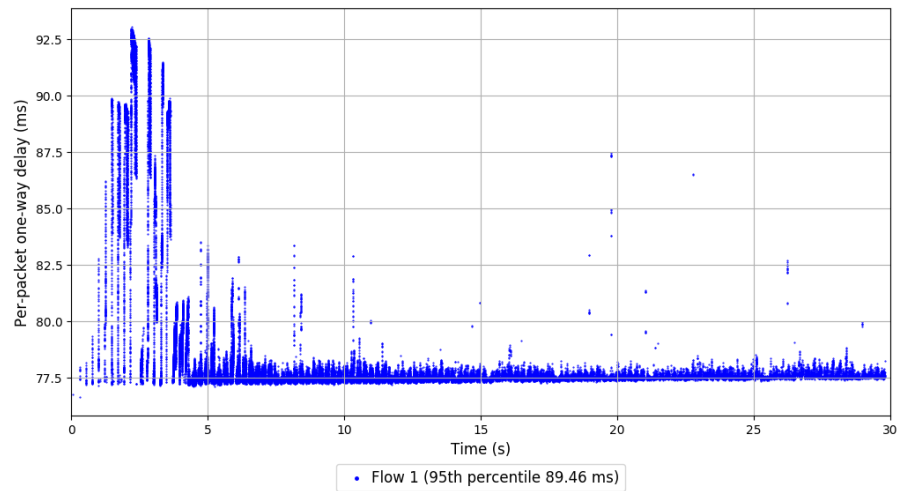
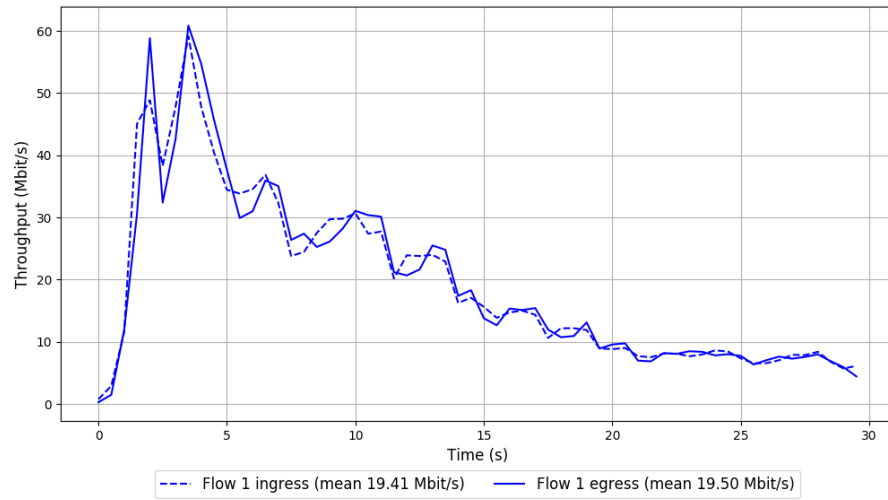


Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 12:51:55
End at: 2018-04-10 12:52:25
Local clock offset: 27.157 ms
Remote clock offset: 19.057 ms

Below is generated by plot.py at 2018-04-10 17:18:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 19.50 Mbit/s
95th percentile per-packet one-way delay: 89.458 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 19.50 Mbit/s
95th percentile per-packet one-way delay: 89.458 ms
Loss rate: 0.28%

Run 10: Report of TCP Cubic — Data Link

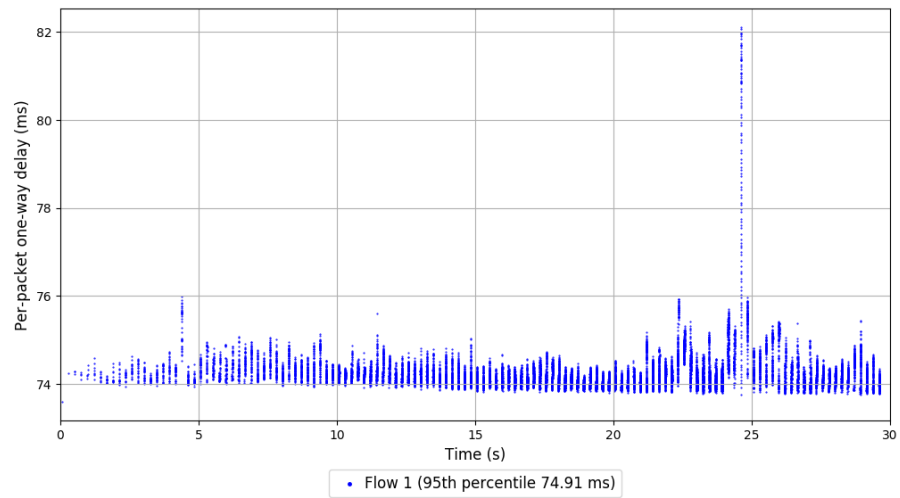
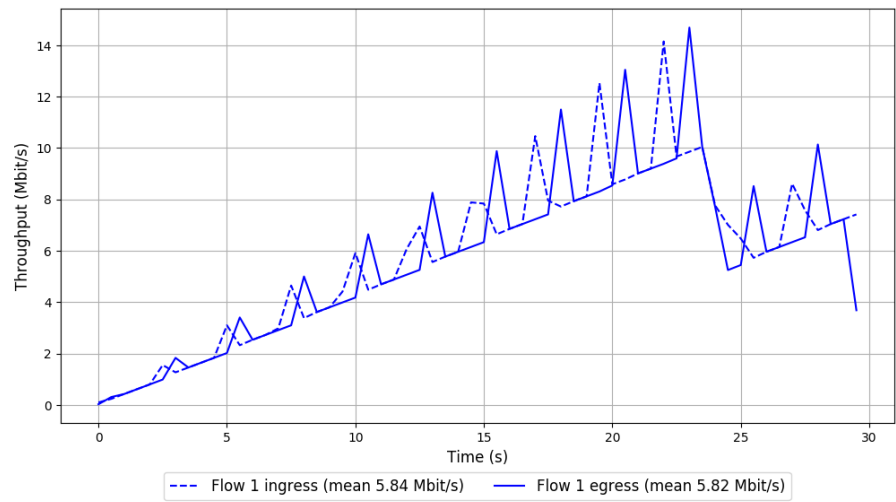


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 09:25:16
End at: 2018-04-10 09:25:46
Local clock offset: 2.54 ms
Remote clock offset: -6.099 ms

# Below is generated by plot.py at 2018-04-10 17:18:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 74.908 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 74.908 ms
Loss rate: 1.09%
```


Run 1: Report of LEDBAT — Data Link

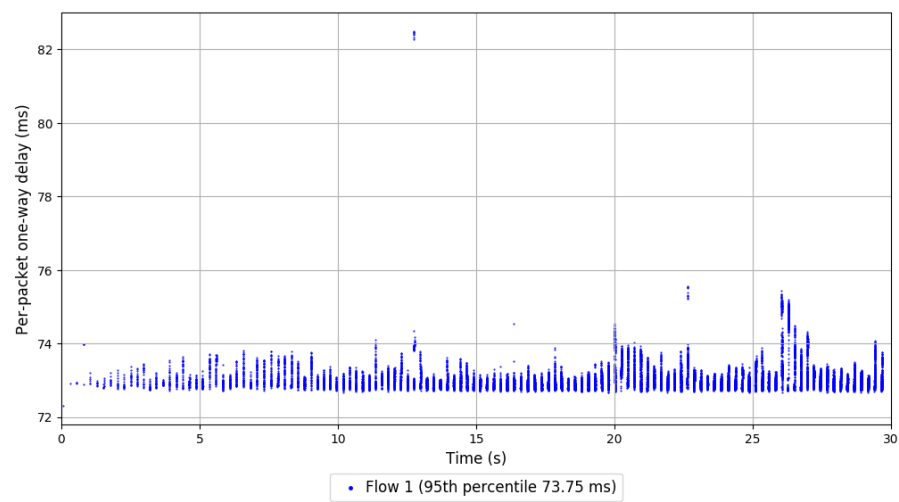
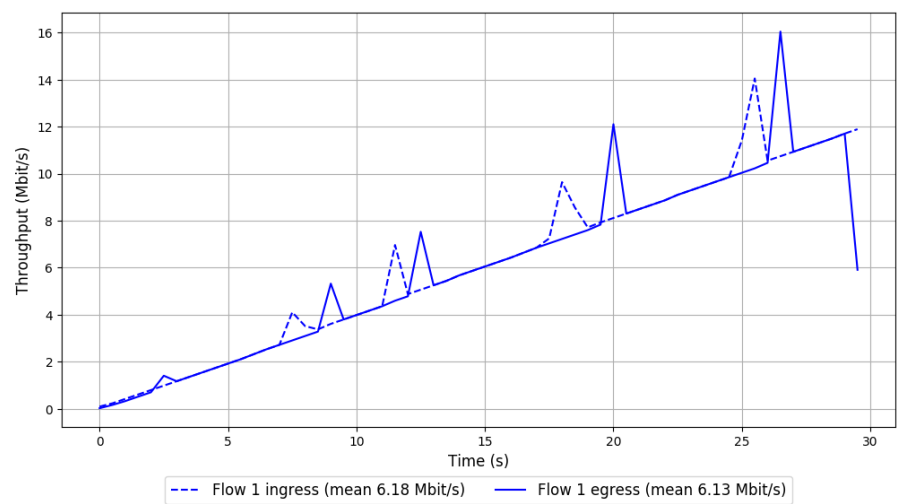


Run 2: Statistics of LEDBAT

Start at: 2018-04-10 09:49:42
End at: 2018-04-10 09:50:12
Local clock offset: 1.675 ms
Remote clock offset: -5.723 ms

Below is generated by plot.py at 2018-04-10 17:18:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 73.751 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 73.751 ms
Loss rate: 1.62%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

/home/ubuntu/pantheon_data/2018-04-10T09-00-China-to-AWS-Korea-10-runs/ledbat_stats_run3.log

Run 3: Report of LEDBAT — Data Link

Figure is missing

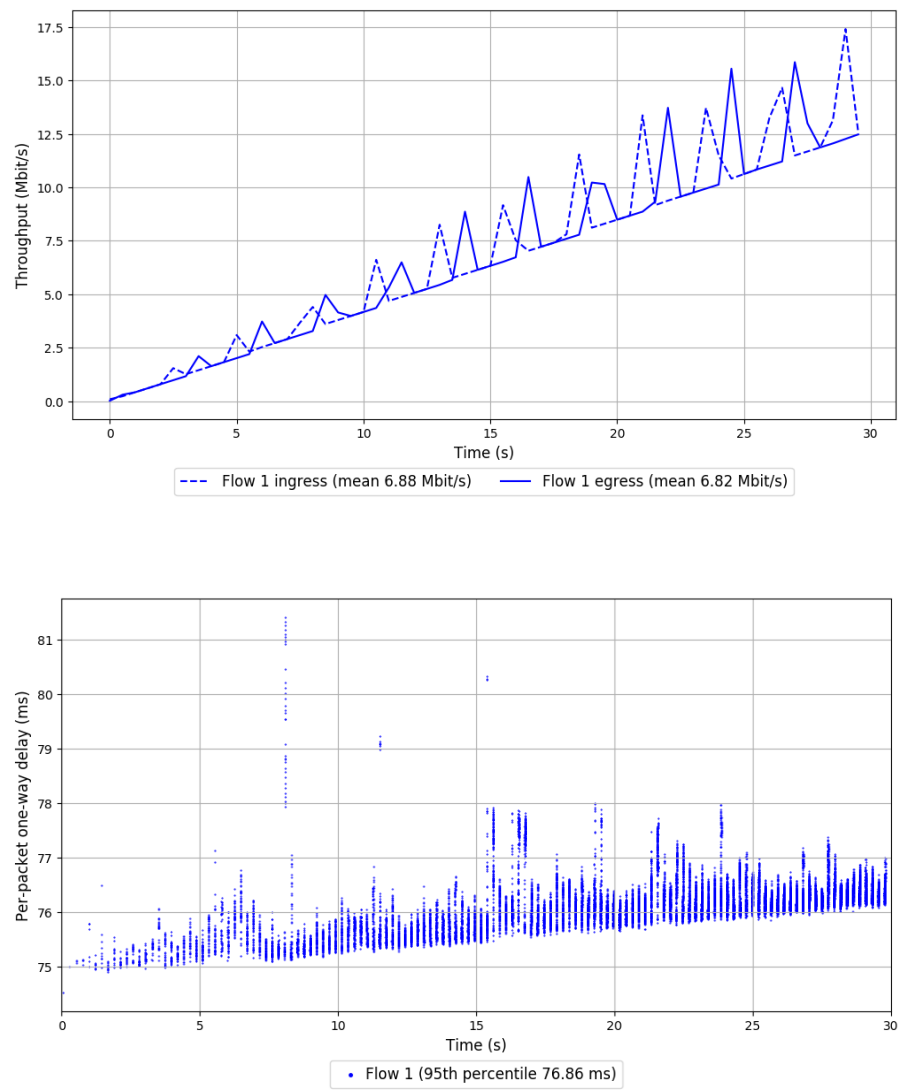
Figure is missing

Run 4: Statistics of LEDBAT

Start at: 2018-04-10 10:42:31
End at: 2018-04-10 10:43:01
Local clock offset: 1.867 ms
Remote clock offset: -9.027 ms

Below is generated by plot.py at 2018-04-10 17:18:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 76.859 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 76.859 ms
Loss rate: 1.53%

Run 4: Report of LEDBAT — Data Link

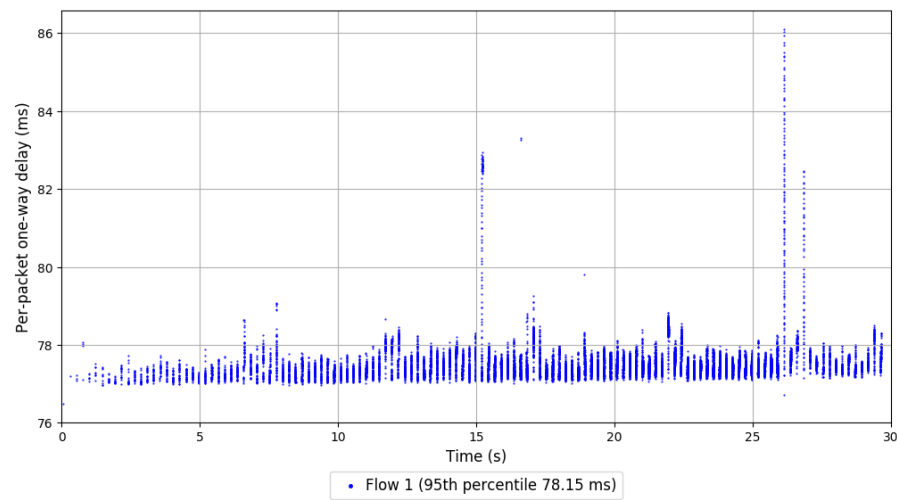
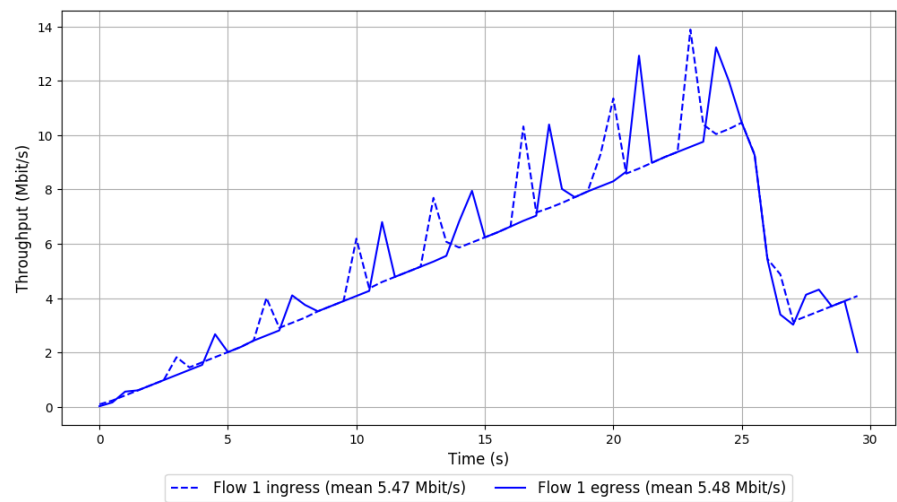


Run 5: Statistics of LEDBAT

Start at: 2018-04-10 11:07:07
End at: 2018-04-10 11:07:37
Local clock offset: 2.103 ms
Remote clock offset: 19.631 ms

Below is generated by plot.py at 2018-04-10 17:18:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.48 Mbit/s
95th percentile per-packet one-way delay: 78.154 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 5.48 Mbit/s
95th percentile per-packet one-way delay: 78.154 ms
Loss rate: 0.65%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 11:32:10

End at: 2018-04-10 11:32:40

Local clock offset: 23.115 ms

Remote clock offset: 2.26 ms

Below is generated by plot.py at 2018-04-10 17:18:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 73.872 ms

Loss rate: 1.53%

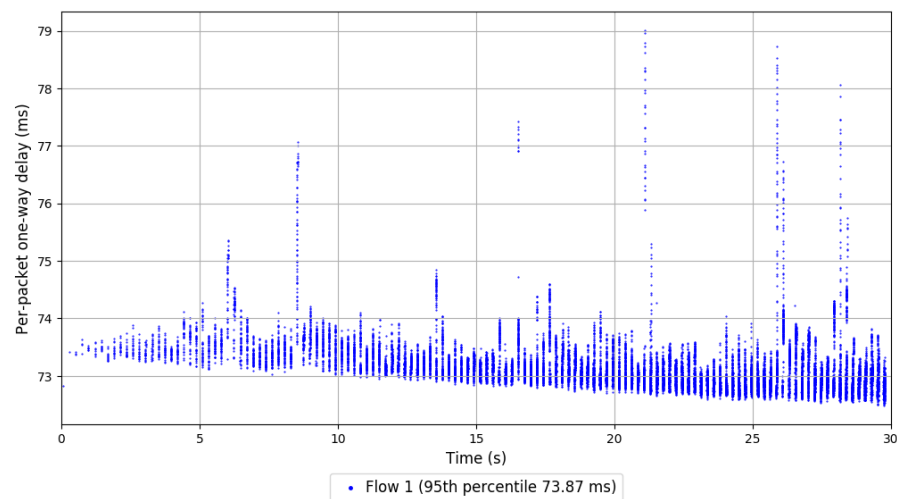
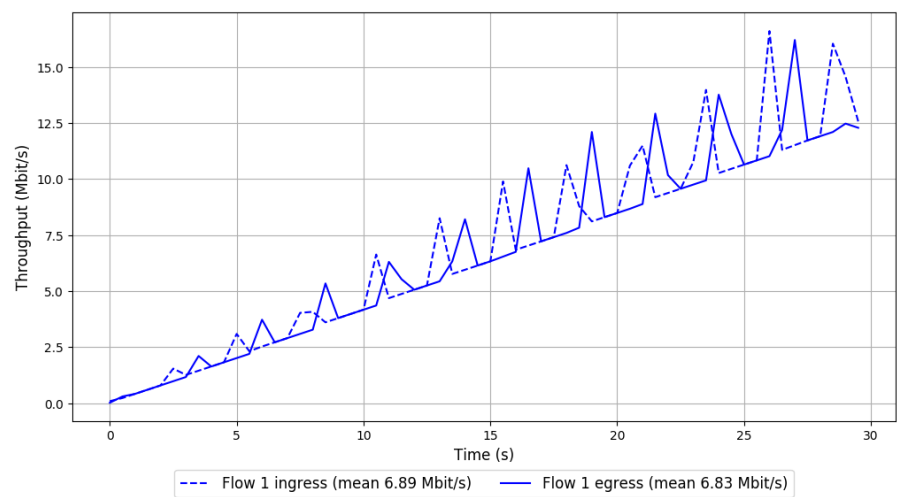
-- Flow 1:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 73.872 ms

Loss rate: 1.53%

Run 6: Report of LEDBAT — Data Link

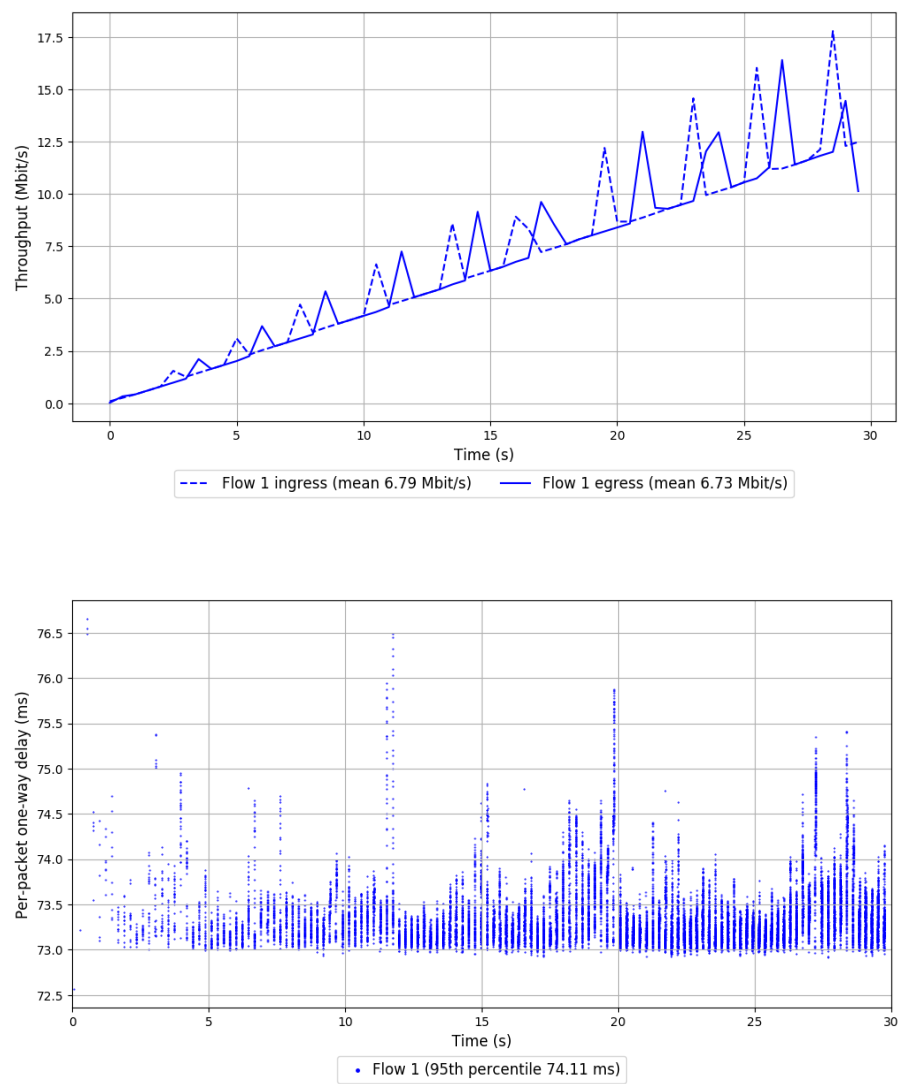


Run 7: Statistics of LEDBAT

Start at: 2018-04-10 11:57:03
End at: 2018-04-10 11:57:33
Local clock offset: 40.226 ms
Remote clock offset: 2.447 ms

Below is generated by plot.py at 2018-04-10 17:18:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 74.107 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 74.107 ms
Loss rate: 1.54%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-10 12:21:27

End at: 2018-04-10 12:21:57

Local clock offset: 51.329 ms

Remote clock offset: 5.776 ms

Below is generated by plot.py at 2018-04-10 17:18:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 115.409 ms

Loss rate: 1.38%

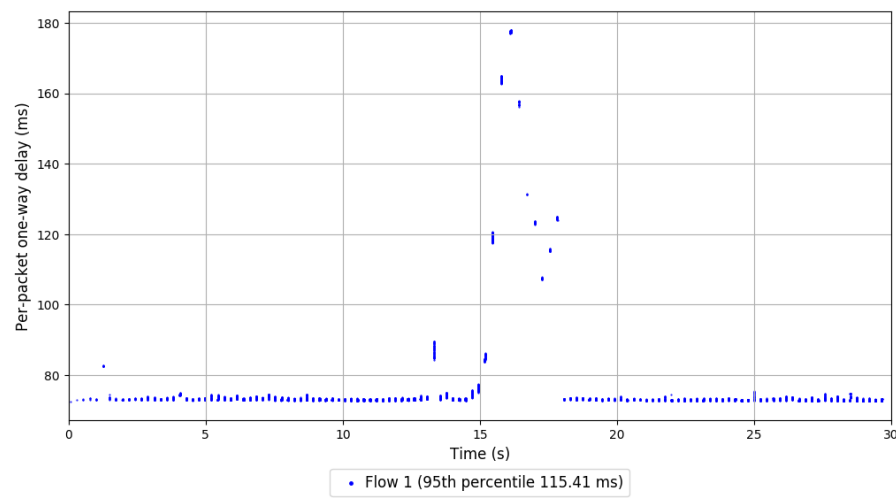
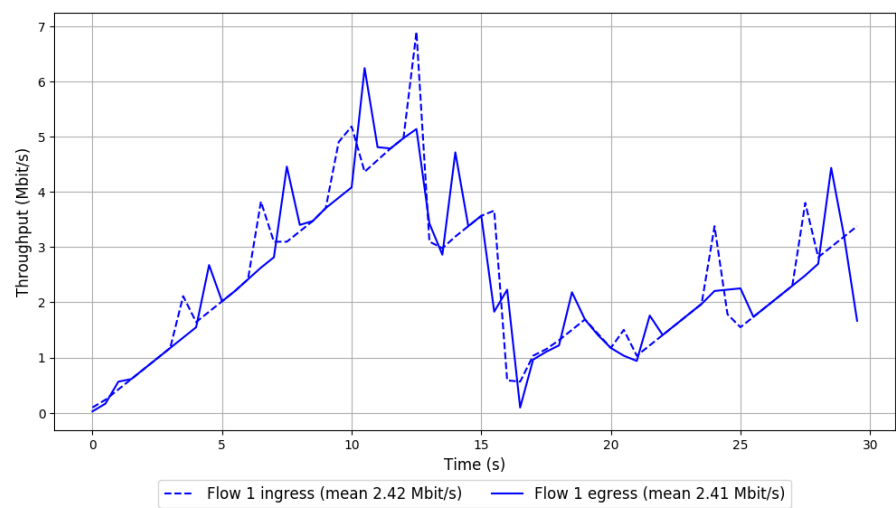
-- Flow 1:

Average throughput: 2.41 Mbit/s

95th percentile per-packet one-way delay: 115.409 ms

Loss rate: 1.38%

Run 8: Report of LEDBAT — Data Link

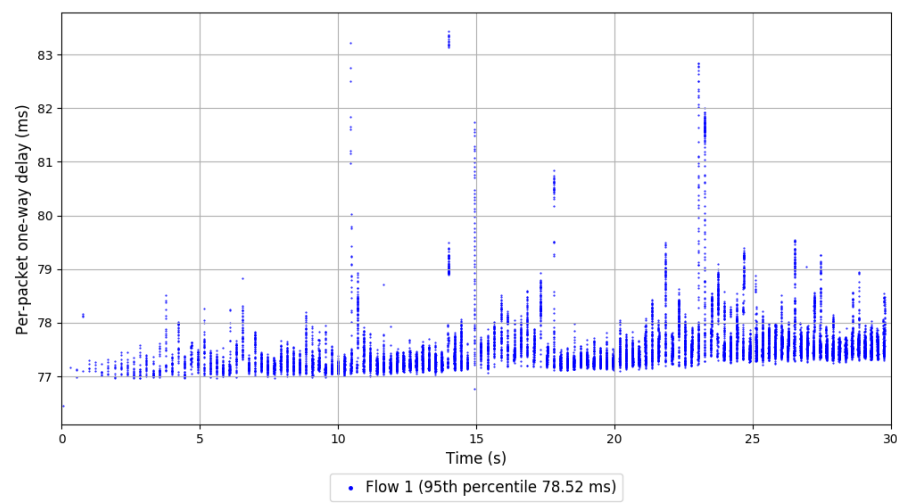
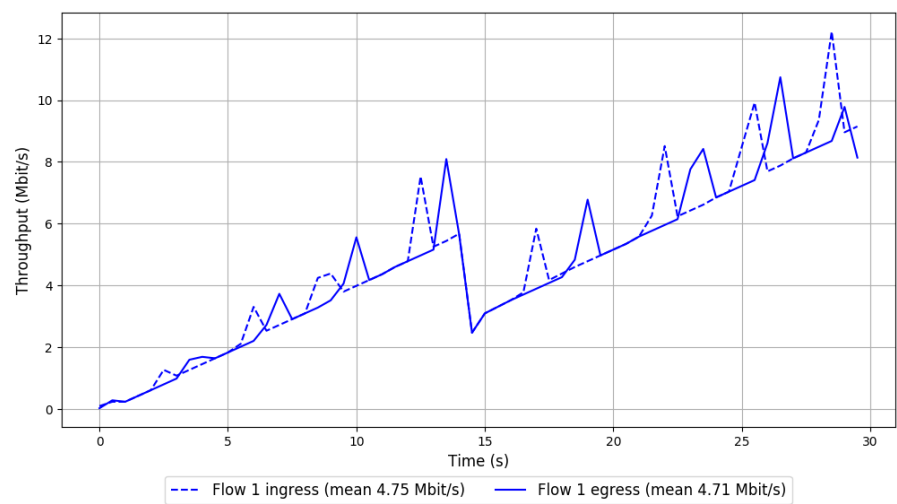


Run 9: Statistics of LEDBAT

Start at: 2018-04-10 12:46:20
End at: 2018-04-10 12:46:50
Local clock offset: 29.538 ms
Remote clock offset: 17.834 ms

Below is generated by plot.py at 2018-04-10 17:18:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 78.521 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 78.521 ms
Loss rate: 1.63%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

/home/ubuntu/pantheon_data/2018-04-10T09-00-China-to-AWS-Korea-10-runs/ledbat_stats_run10.1

Run 10: Report of LEDBAT — Data Link

Figure is missing

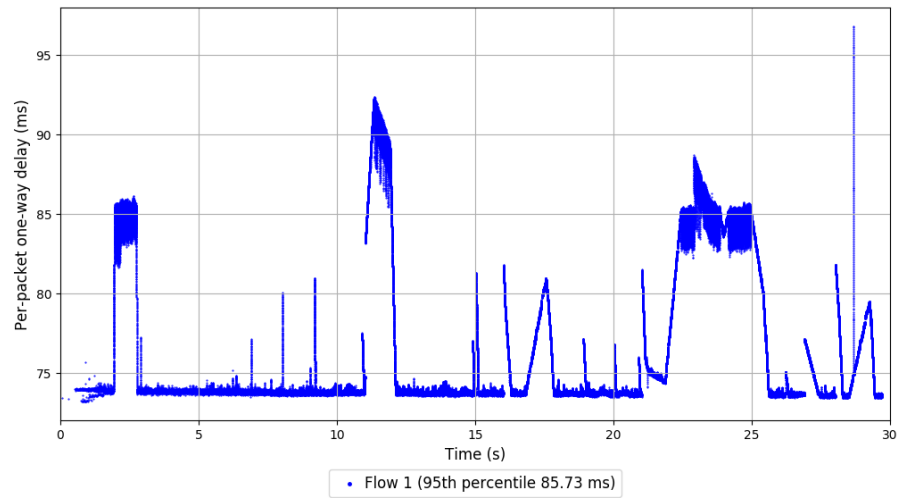
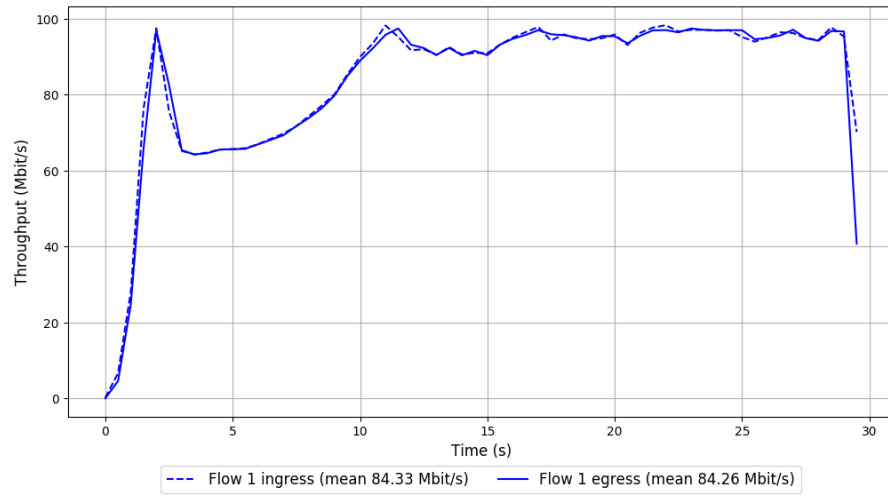
Figure is missing

Run 1: Statistics of PCC

Start at: 2018-04-10 09:18:23
End at: 2018-04-10 09:18:53
Local clock offset: 2.432 ms
Remote clock offset: -2.495 ms

Below is generated by plot.py at 2018-04-10 17:20:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.26 Mbit/s
95th percentile per-packet one-way delay: 85.728 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 84.26 Mbit/s
95th percentile per-packet one-way delay: 85.728 ms
Loss rate: 0.86%

Run 1: Report of PCC — Data Link

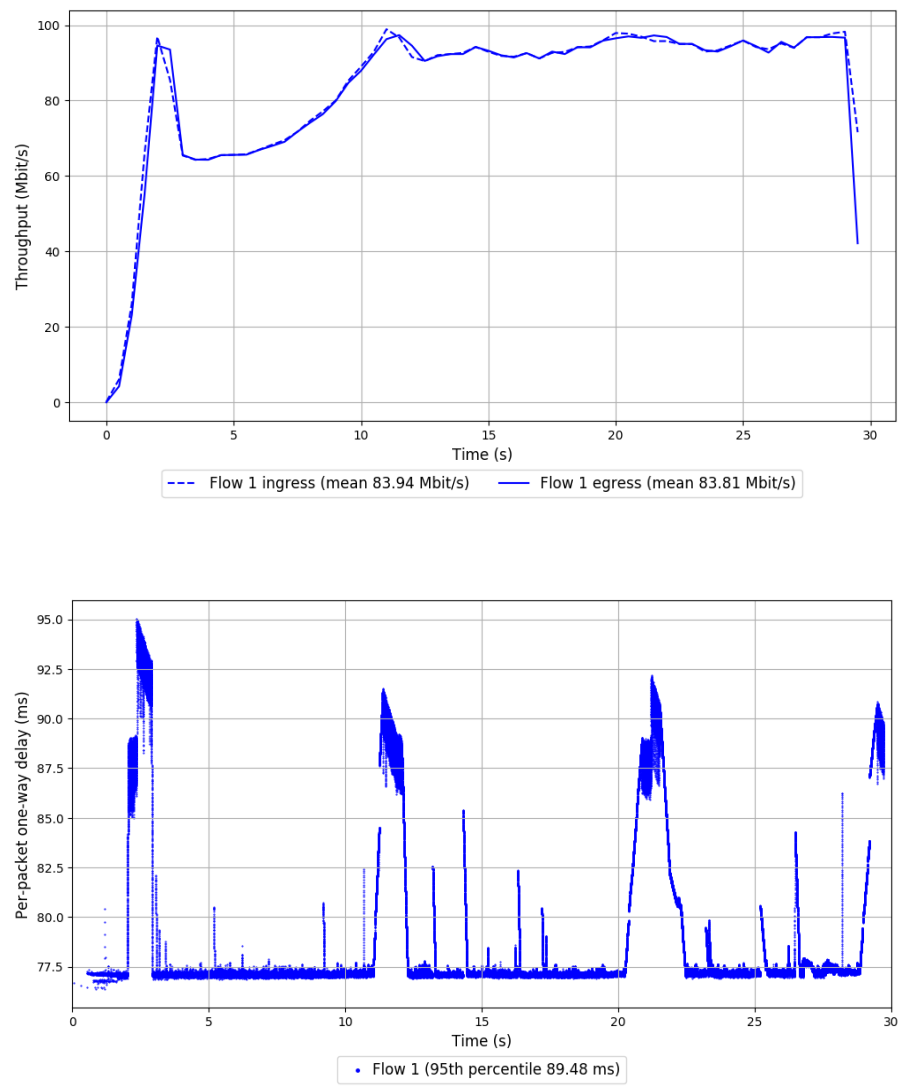


Run 2: Statistics of PCC

Start at: 2018-04-10 09:44:21
End at: 2018-04-10 09:44:51
Local clock offset: 2.012 ms
Remote clock offset: -5.292 ms

Below is generated by plot.py at 2018-04-10 17:20:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 89.482 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 89.482 ms
Loss rate: 0.94%

Run 2: Report of PCC — Data Link

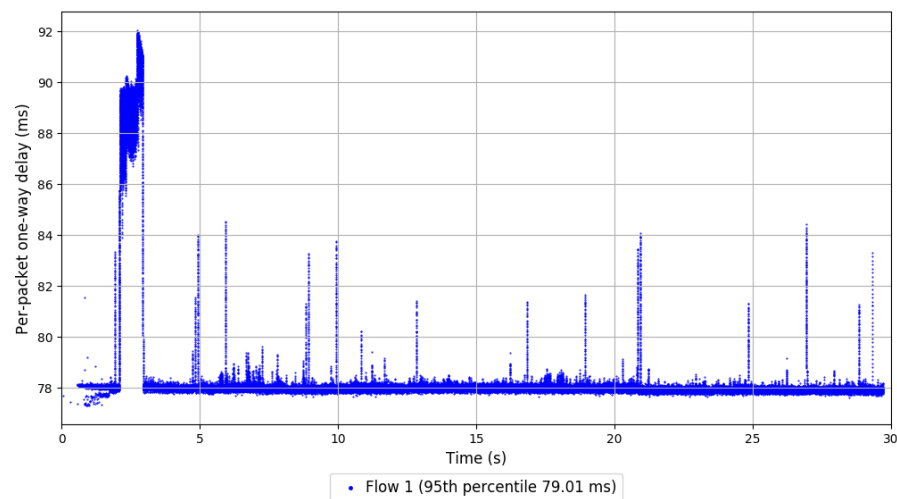
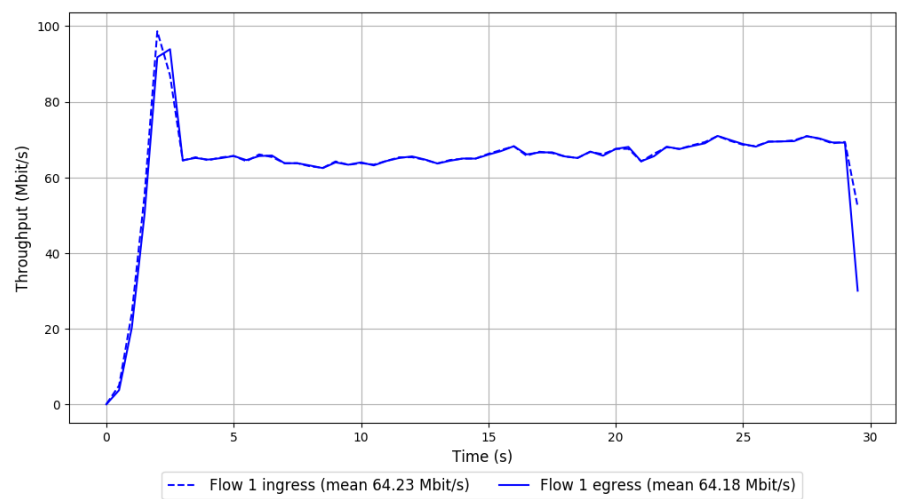


Run 3: Statistics of PCC

Start at: 2018-04-10 10:09:13
End at: 2018-04-10 10:09:43
Local clock offset: 1.118 ms
Remote clock offset: -8.764 ms

Below is generated by plot.py at 2018-04-10 17:20:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.18 Mbit/s
95th percentile per-packet one-way delay: 79.006 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 64.18 Mbit/s
95th percentile per-packet one-way delay: 79.006 ms
Loss rate: 0.86%

Run 3: Report of PCC — Data Link

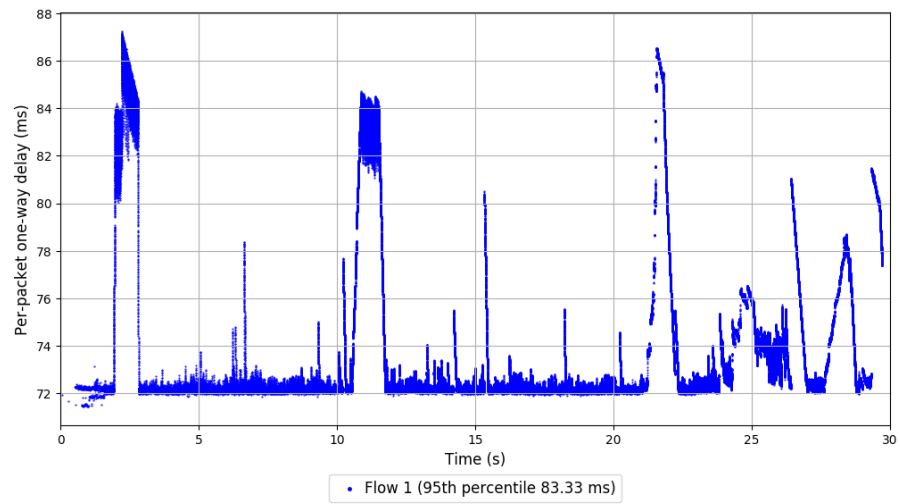
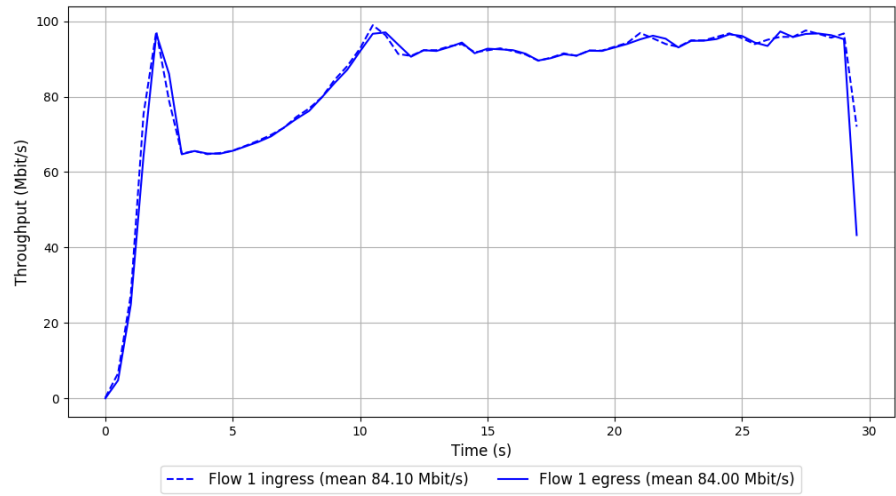


Run 4: Statistics of PCC

Start at: 2018-04-10 10:35:04
End at: 2018-04-10 10:35:34
Local clock offset: 1.961 ms
Remote clock offset: -13.648 ms

Below is generated by plot.py at 2018-04-10 17:20:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.00 Mbit/s
95th percentile per-packet one-way delay: 83.325 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 84.00 Mbit/s
95th percentile per-packet one-way delay: 83.325 ms
Loss rate: 0.88%

Run 4: Report of PCC — Data Link

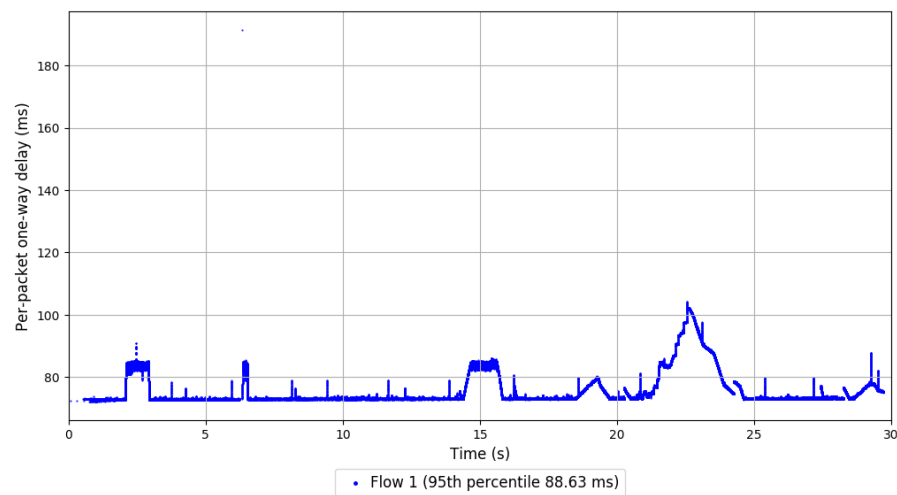
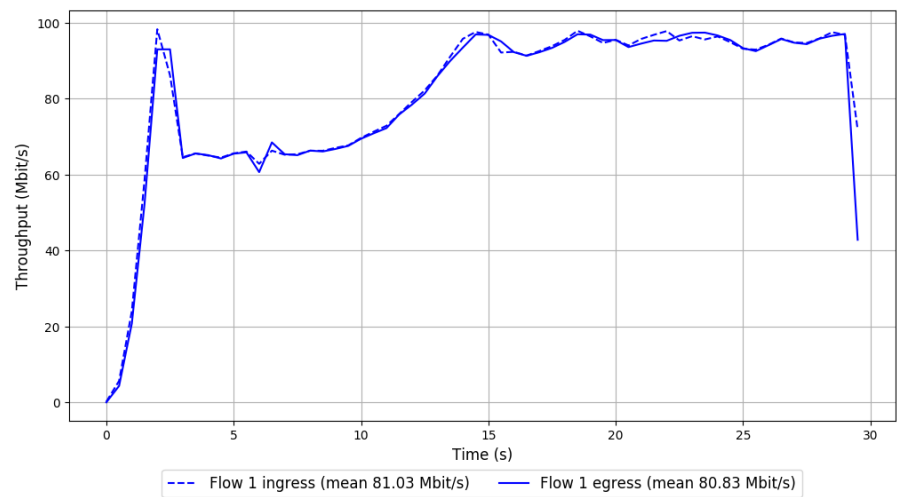


Run 5: Statistics of PCC

Start at: 2018-04-10 11:01:30
End at: 2018-04-10 11:02:00
Local clock offset: 1.881 ms
Remote clock offset: 16.546 ms

Below is generated by plot.py at 2018-04-10 17:20:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.83 Mbit/s
95th percentile per-packet one-way delay: 88.627 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 80.83 Mbit/s
95th percentile per-packet one-way delay: 88.627 ms
Loss rate: 0.99%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 11:26:50

End at: 2018-04-10 11:27:20

Local clock offset: 14.739 ms

Remote clock offset: 5.36 ms

Below is generated by plot.py at 2018-04-10 17:20:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 86.468 ms

Loss rate: 1.04%

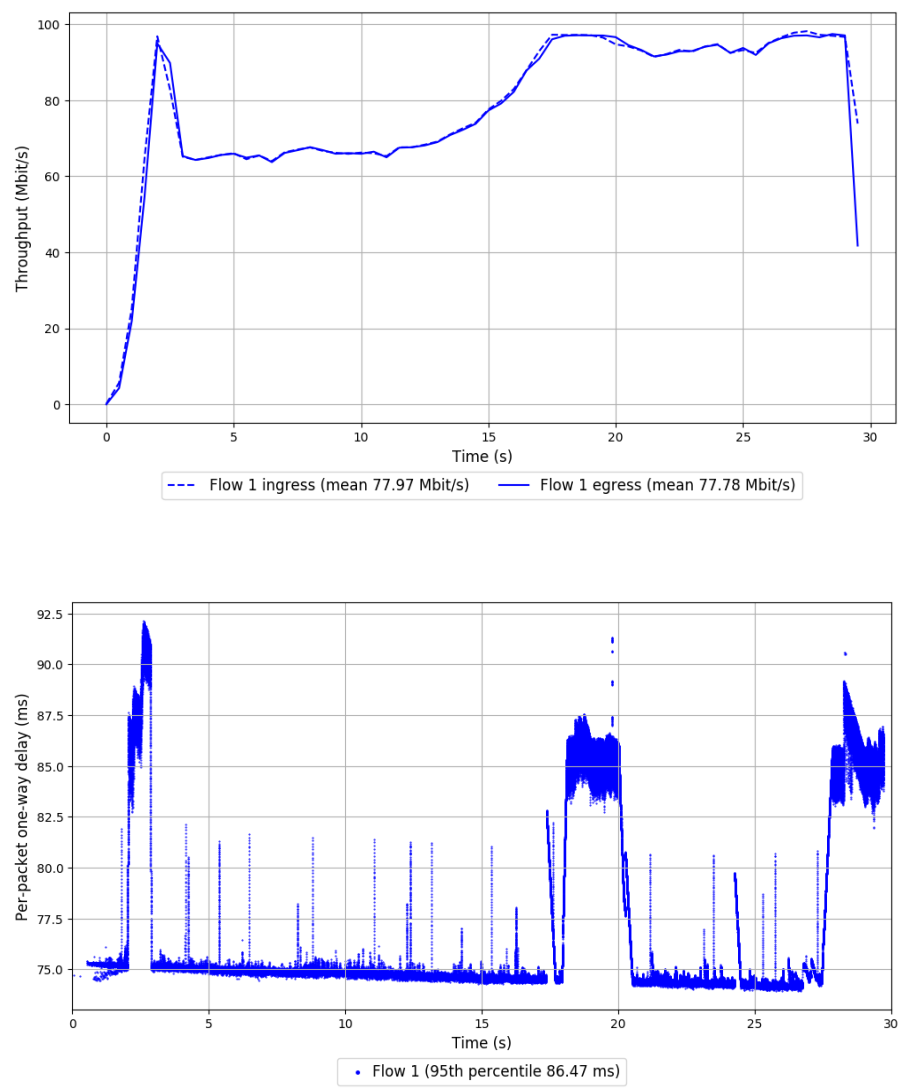
-- Flow 1:

Average throughput: 77.78 Mbit/s

95th percentile per-packet one-way delay: 86.468 ms

Loss rate: 1.04%

Run 6: Report of PCC — Data Link

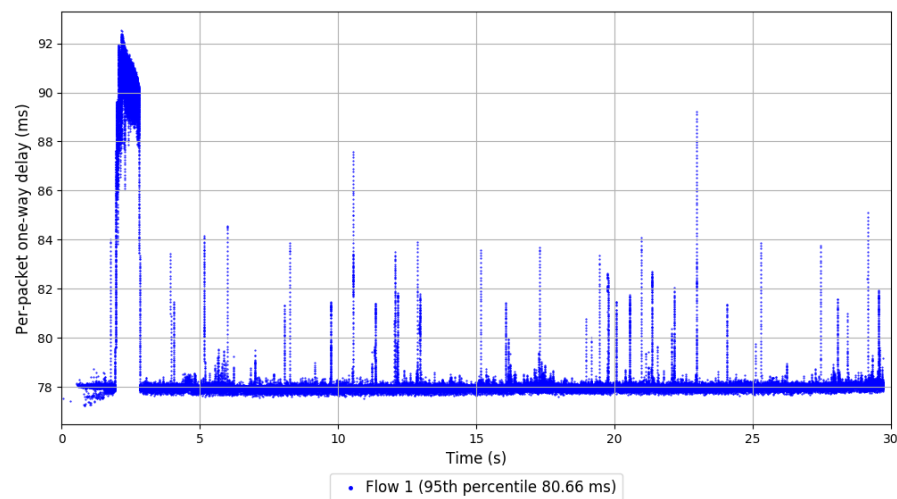
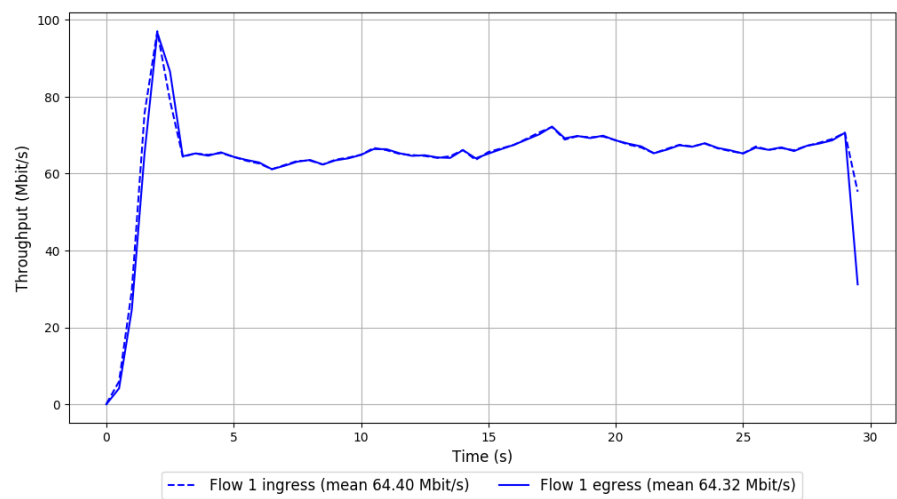


Run 7: Statistics of PCC

Start at: 2018-04-10 11:51:42
End at: 2018-04-10 11:52:12
Local clock offset: 37.77 ms
Remote clock offset: -0.245 ms

Below is generated by plot.py at 2018-04-10 17:20:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 80.659 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 80.659 ms
Loss rate: 0.92%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-10 12:16:06

End at: 2018-04-10 12:16:36

Local clock offset: 48.794 ms

Remote clock offset: 5.72 ms

Below is generated by plot.py at 2018-04-10 17:20:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 79.203 ms

Loss rate: 0.90%

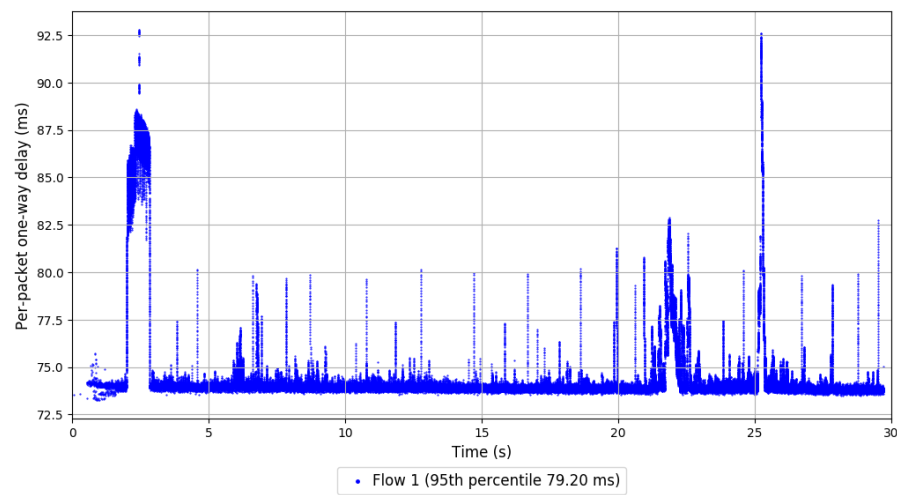
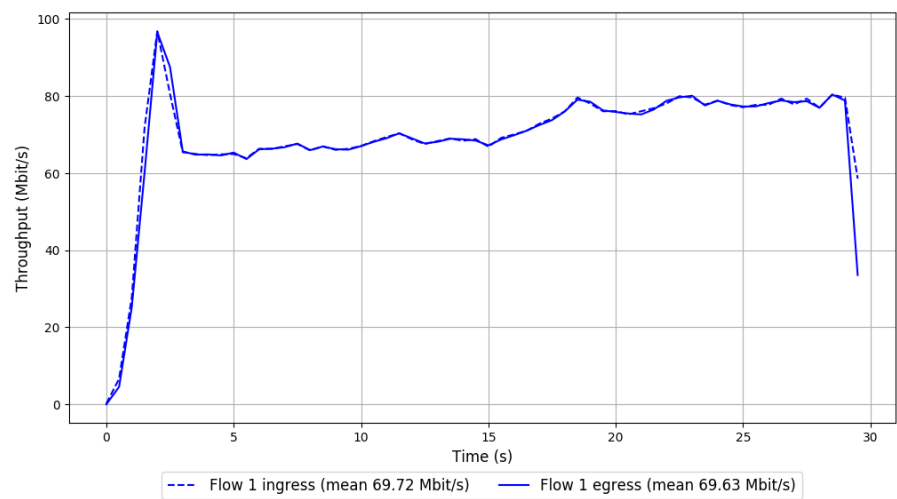
-- Flow 1:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 79.203 ms

Loss rate: 0.90%

Run 8: Report of PCC — Data Link

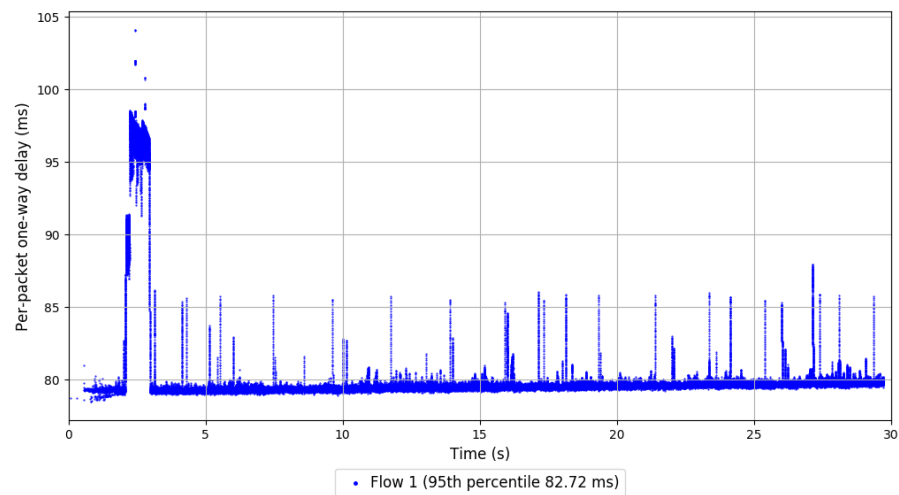
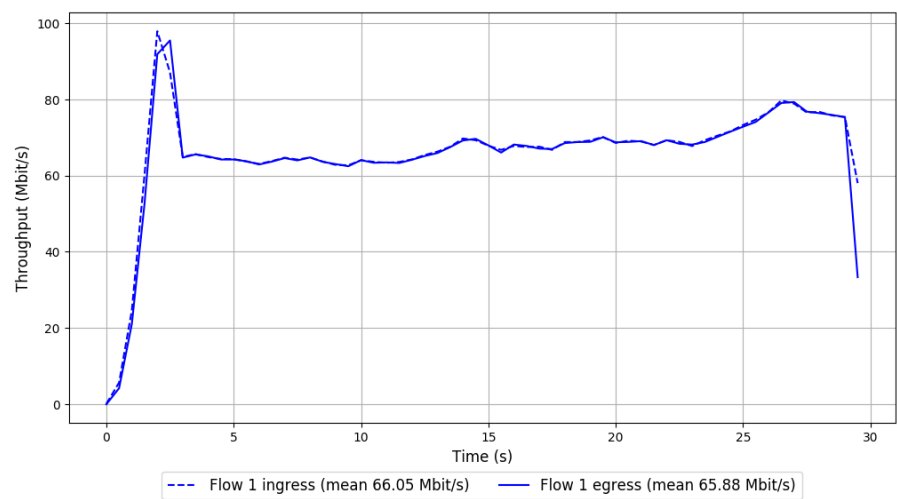


Run 9: Statistics of PCC

Start at: 2018-04-10 12:40:48
End at: 2018-04-10 12:41:18
Local clock offset: 33.572 ms
Remote clock offset: 16.257 ms

Below is generated by plot.py at 2018-04-10 17:21:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.88 Mbit/s
95th percentile per-packet one-way delay: 82.722 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 65.88 Mbit/s
95th percentile per-packet one-way delay: 82.722 ms
Loss rate: 1.03%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-10 13:05:42

End at: 2018-04-10 13:06:12

Local clock offset: 23.37 ms

Remote clock offset: 8.413 ms

Below is generated by plot.py at 2018-04-10 17:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.62 Mbit/s

95th percentile per-packet one-way delay: 84.057 ms

Loss rate: 0.92%

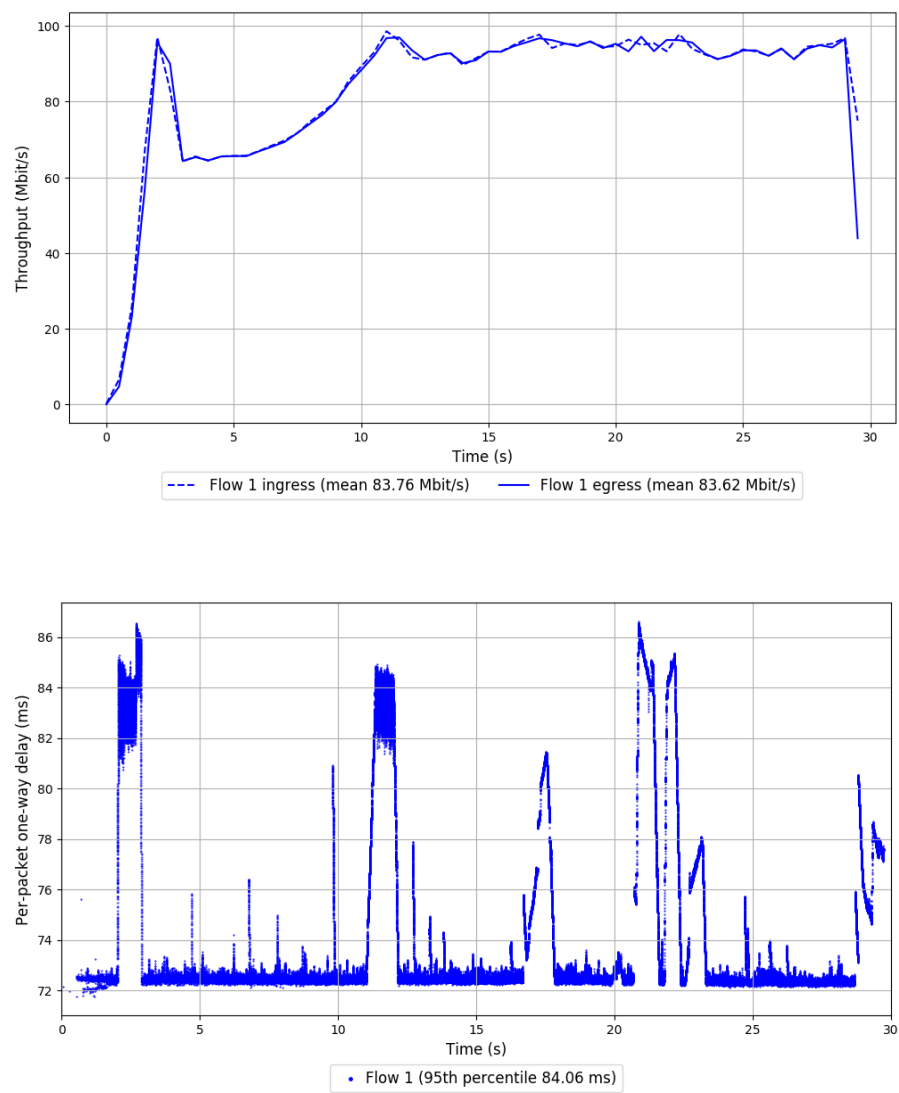
-- Flow 1:

Average throughput: 83.62 Mbit/s

95th percentile per-packet one-way delay: 84.057 ms

Loss rate: 0.92%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 09:23:54

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

Local clock offset: 2.363 ms

Remote clock offset: -5.512 ms

Below is generated by plot.py at 2018-04-10 17:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 178.612 ms

Loss rate: 2.45%

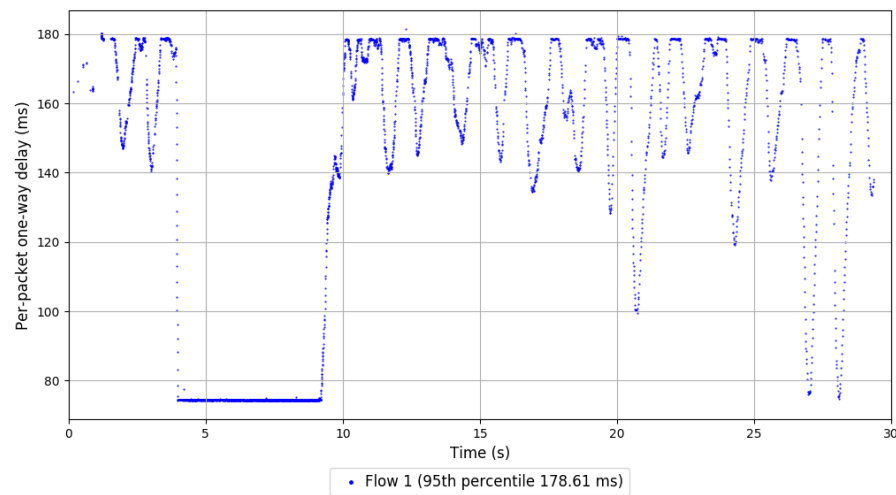
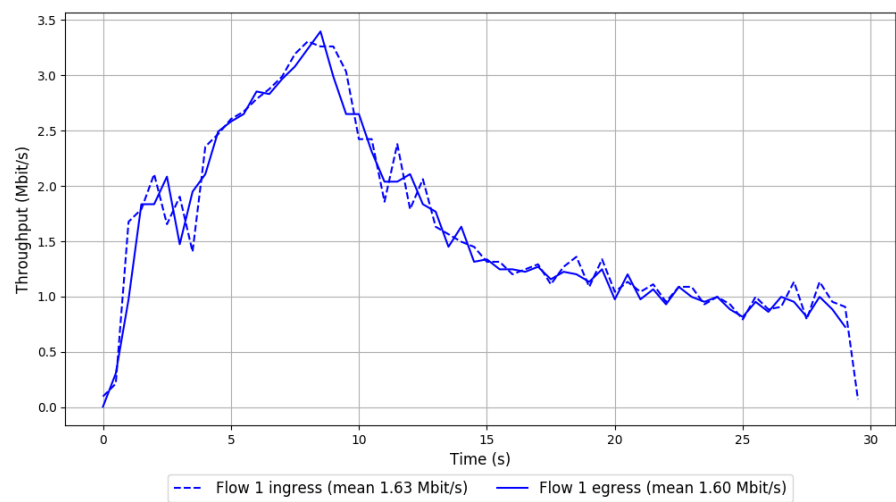
-- Flow 1:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 178.612 ms

Loss rate: 2.45%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 09:48:20

End at: 2018-04-10 09:48:50

Local clock offset: 1.75 ms

Remote clock offset: -5.506 ms

Below is generated by plot.py at 2018-04-10 17:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.06 Mbit/s

95th percentile per-packet one-way delay: 72.853 ms

Loss rate: 0.88%

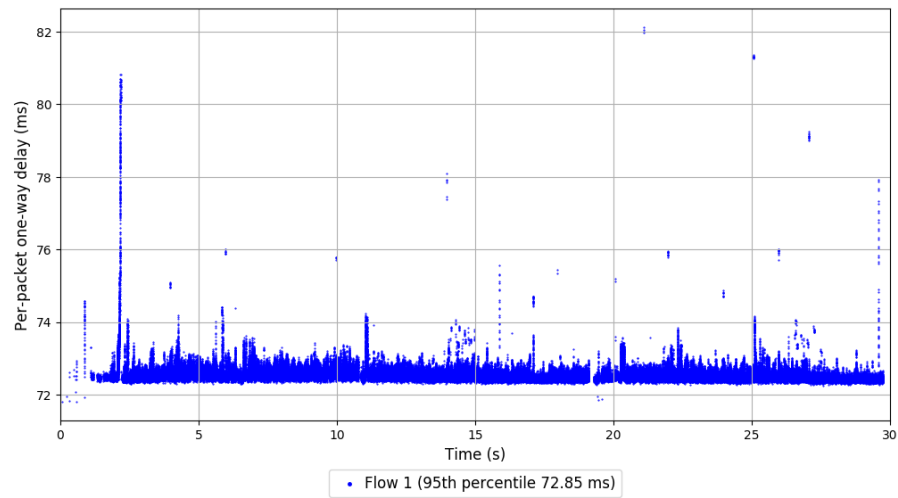
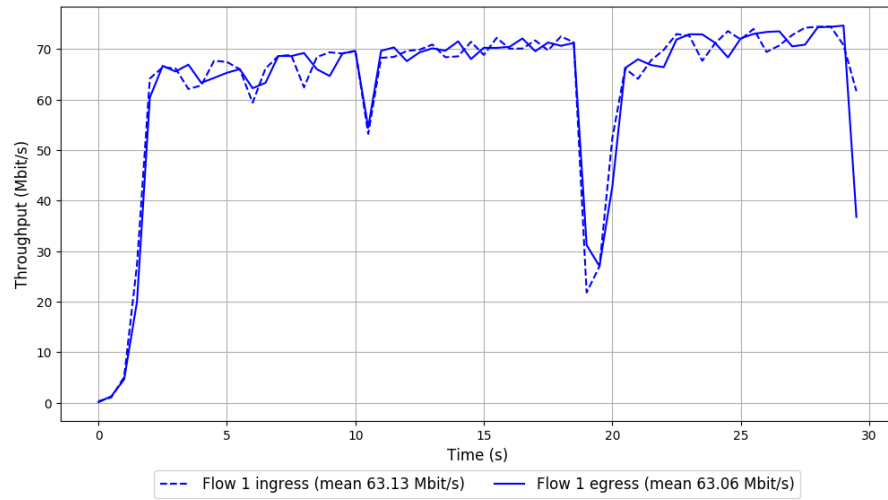
-- Flow 1:

Average throughput: 63.06 Mbit/s

95th percentile per-packet one-way delay: 72.853 ms

Loss rate: 0.88%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

/home/ubuntu/pantheon_data/2018-04-10T09-00-China-to-AWS-Korea-10-runs/quic_stats_run3.log c

Run 3: Report of QUIC Cubic — Data Link

Figure is missing

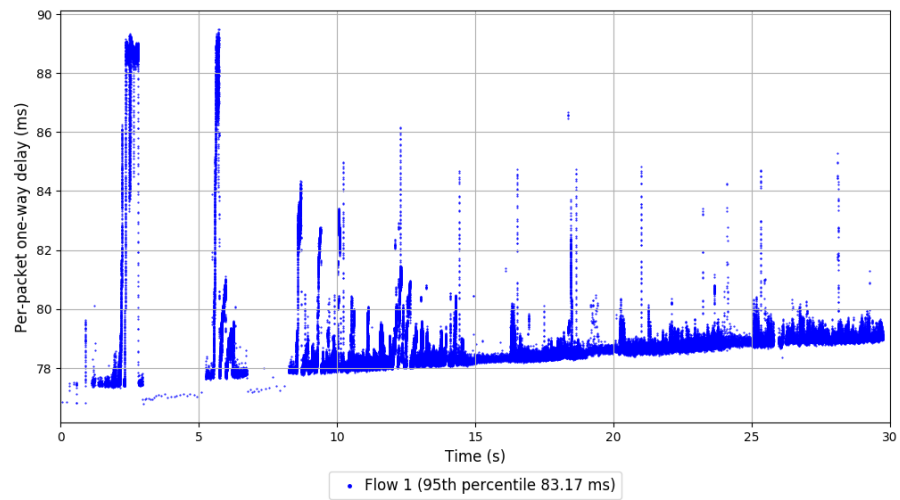
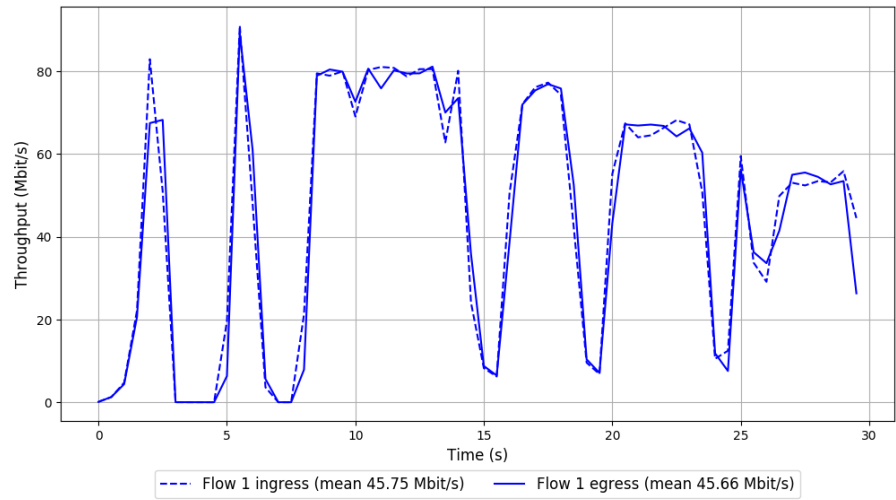
Figure is missing

Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 10:41:10
End at: 2018-04-10 10:41:40
Local clock offset: 2.127 ms
Remote clock offset: -12.929 ms

Below is generated by plot.py at 2018-04-10 17:21:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 83.170 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 83.170 ms
Loss rate: 0.94%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 11:05:39

End at: 2018-04-10 11:06:09

Local clock offset: 2.023 ms

Remote clock offset: 18.867 ms

Below is generated by plot.py at 2018-04-10 17:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 91.455 ms

Loss rate: 1.06%

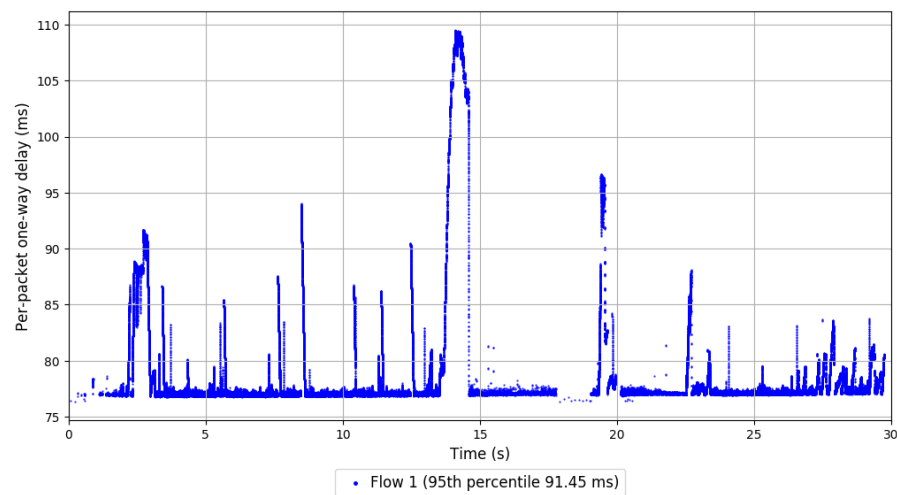
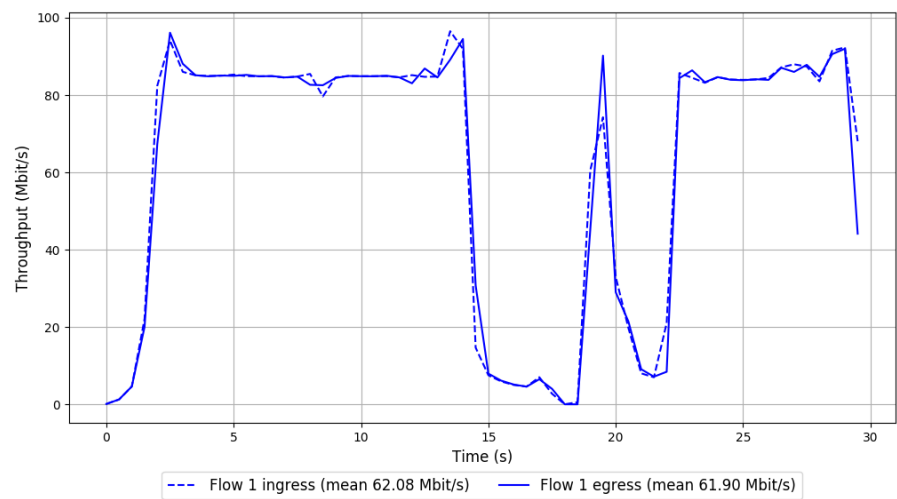
-- Flow 1:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 91.455 ms

Loss rate: 1.06%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 11:30:49

End at: 2018-04-10 11:31:19

Local clock offset: 21.421 ms

Remote clock offset: 2.694 ms

Below is generated by plot.py at 2018-04-10 17:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.69 Mbit/s

95th percentile per-packet one-way delay: 80.184 ms

Loss rate: 1.15%

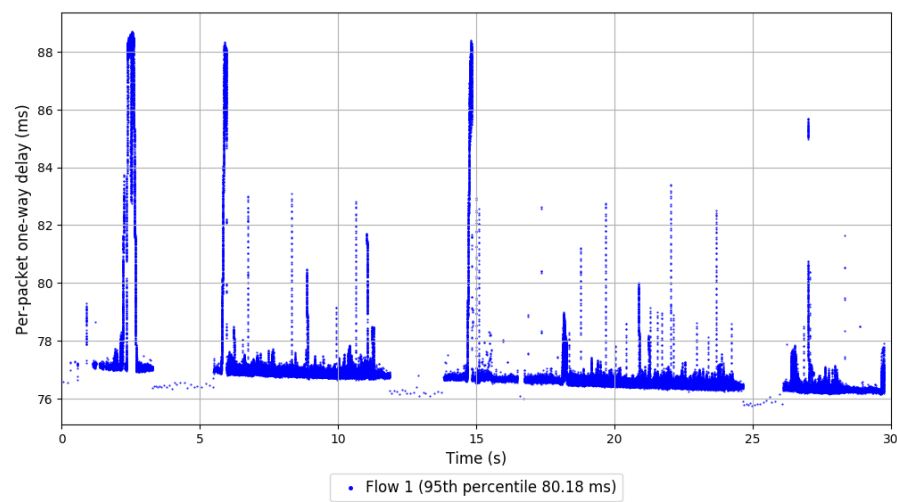
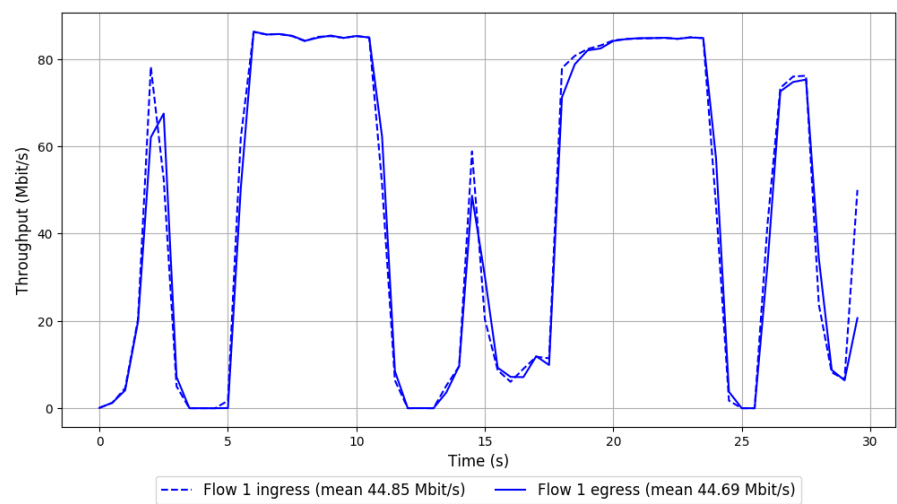
-- Flow 1:

Average throughput: 44.69 Mbit/s

95th percentile per-packet one-way delay: 80.184 ms

Loss rate: 1.15%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 11:55:42

End at: 2018-04-10 11:56:12

Local clock offset: 39.697 ms

Remote clock offset: 2.119 ms

Below is generated by plot.py at 2018-04-10 17:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 78.135 ms

Loss rate: 0.57%

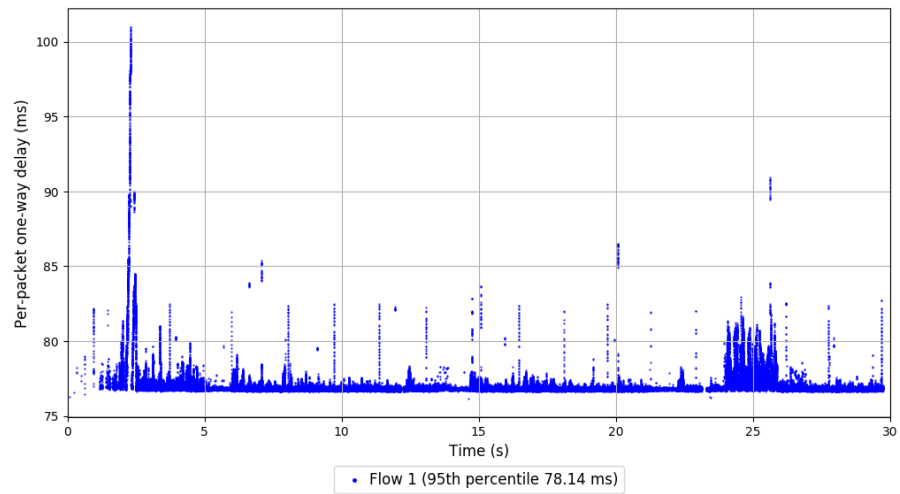
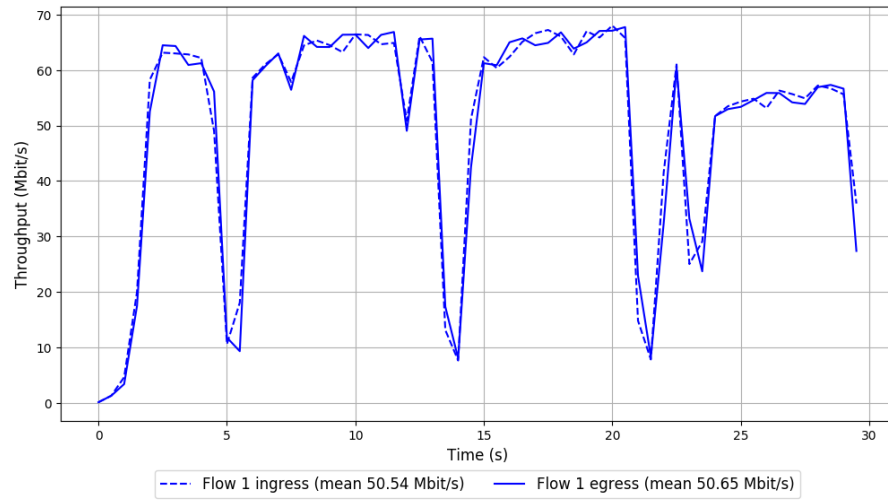
-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 78.135 ms

Loss rate: 0.57%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 12:20:06

End at: 2018-04-10 12:20:36

Local clock offset: 50.534 ms

Remote clock offset: 5.815 ms

Below is generated by plot.py at 2018-04-10 17:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.33 Mbit/s

95th percentile per-packet one-way delay: 76.849 ms

Loss rate: 0.92%

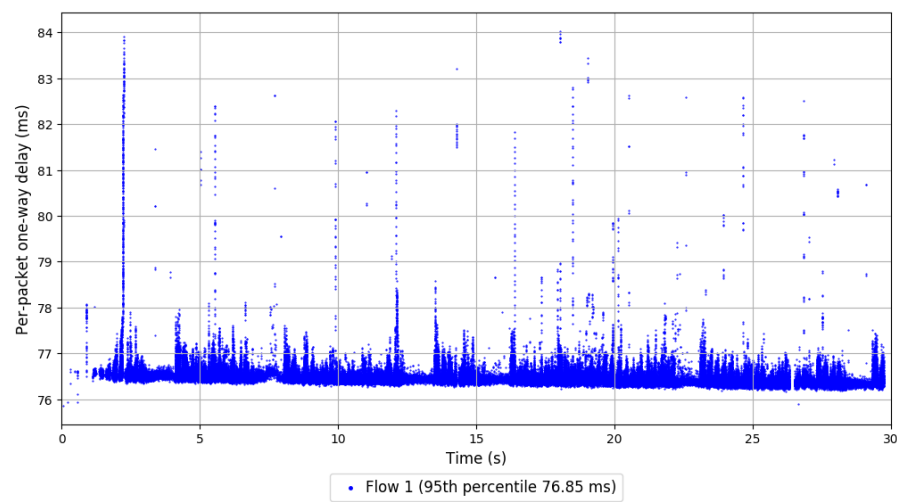
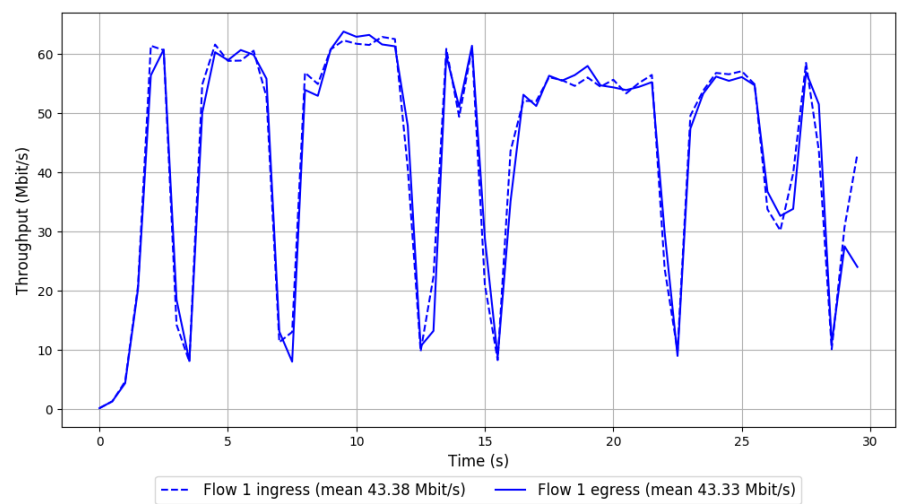
-- Flow 1:

Average throughput: 43.33 Mbit/s

95th percentile per-packet one-way delay: 76.849 ms

Loss rate: 0.92%

Run 8: Report of QUIC Cubic — Data Link

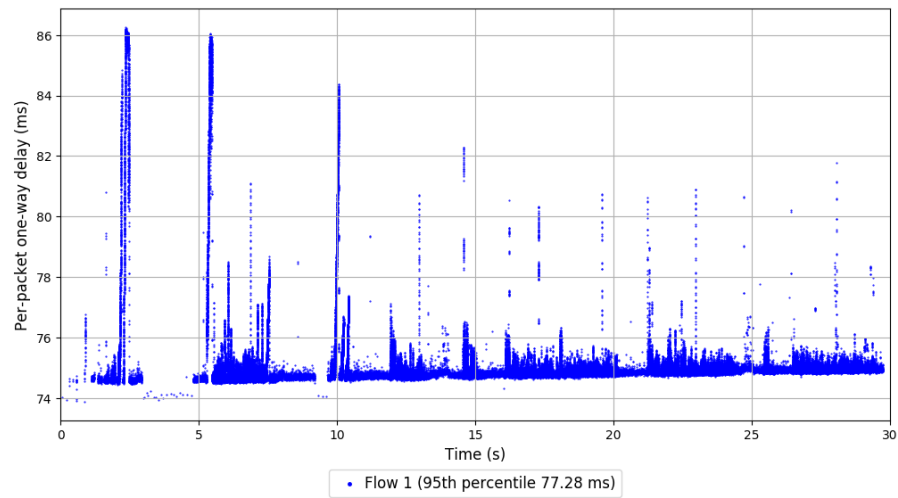
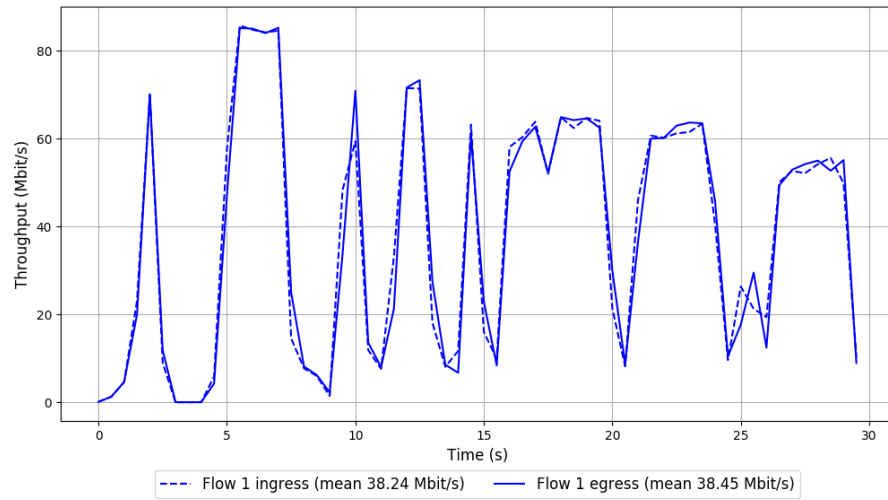


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 12:44:57
End at: 2018-04-10 12:45:27
Local clock offset: 30.268 ms
Remote clock offset: 17.562 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 77.280 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 77.280 ms
Loss rate: 0.23%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

/home/ubuntu/pantheon_data/2018-04-10T09-00-China-to-AWS-Korea-10-runs/quic_stats_run10.log

Run 10: Report of QUIC Cubic — Data Link

Figure is missing

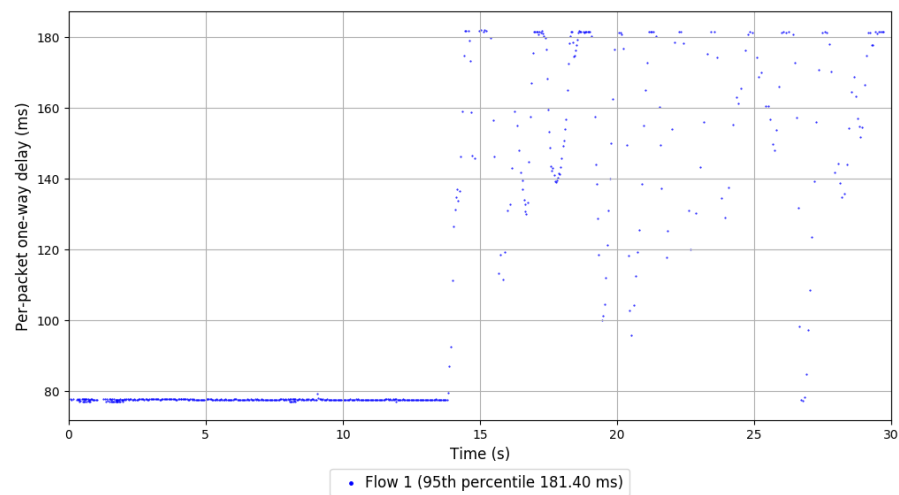
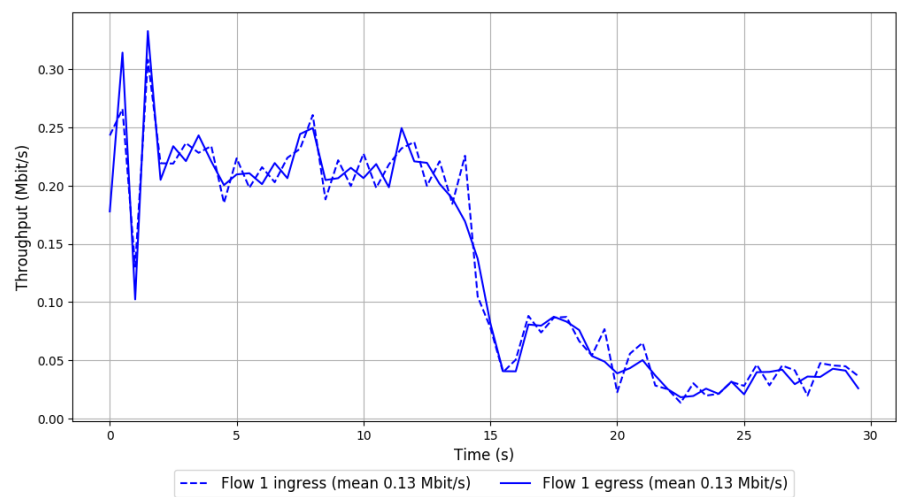
Figure is missing

Run 1: Statistics of SCReAM

Start at: 2018-04-10 09:19:44
End at: 2018-04-10 09:20:14
Local clock offset: 2.264 ms
Remote clock offset: -3.361 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 181.396 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 181.396 ms
Loss rate: 1.47%

Run 1: Report of SReAM — Data Link

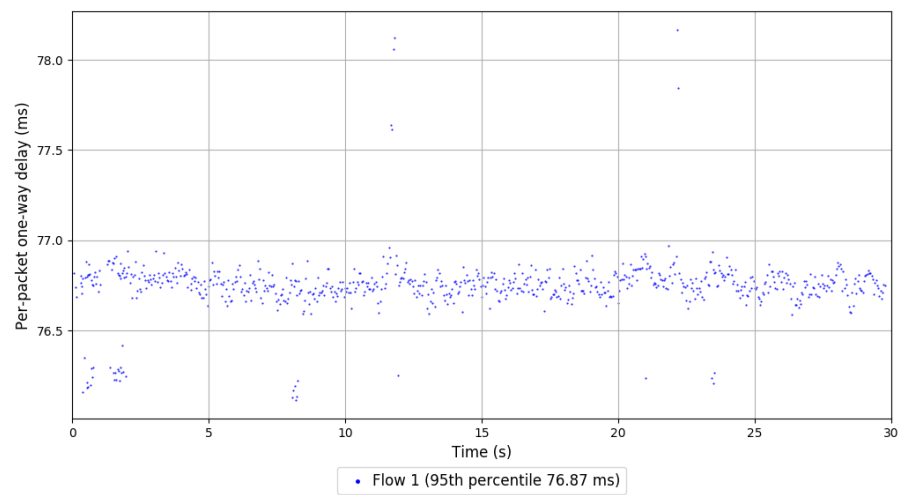
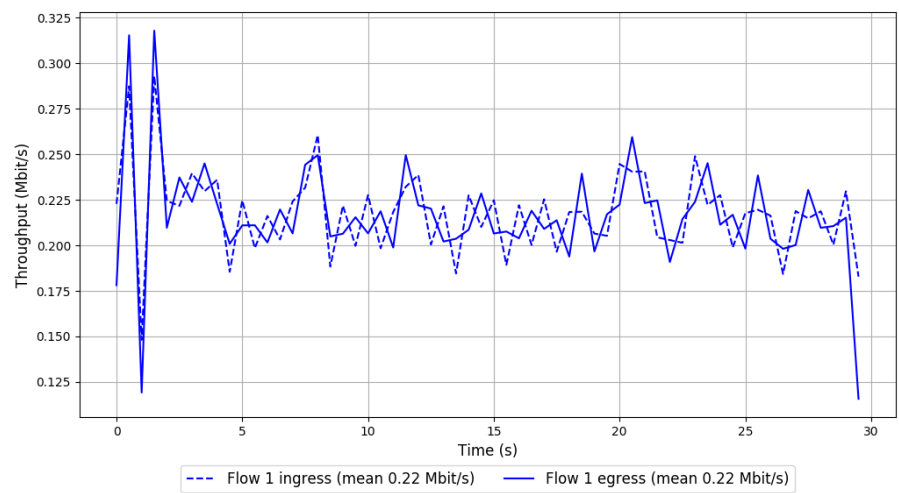


Run 2: Statistics of SCReAM

Start at: 2018-04-10 09:45:42
End at: 2018-04-10 09:46:12
Local clock offset: 1.842 ms
Remote clock offset: -5.322 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.874 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.874 ms
Loss rate: 0.76%

Run 2: Report of SReAM — Data Link

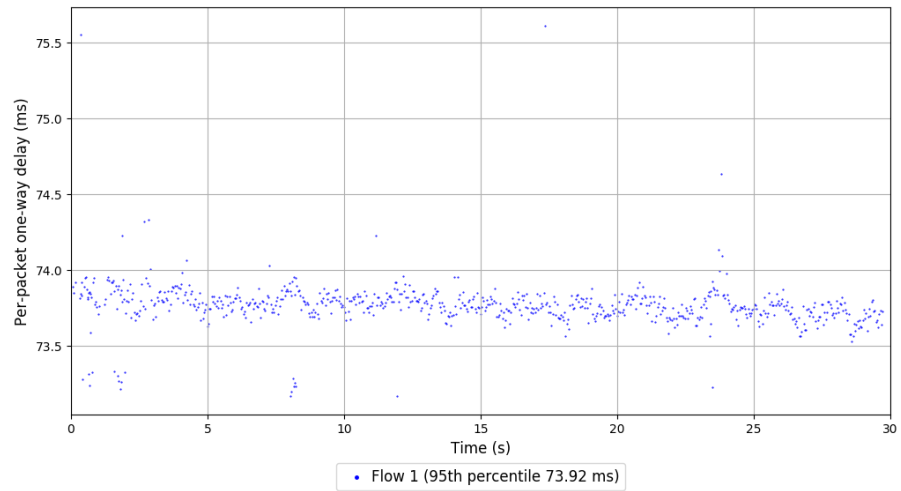
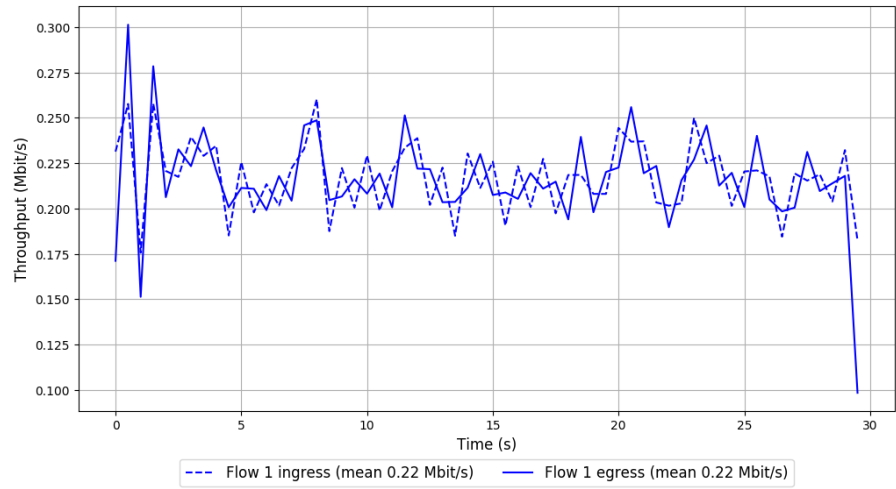


Run 3: Statistics of SCReAM

Start at: 2018-04-10 10:10:34
End at: 2018-04-10 10:11:04
Local clock offset: 1.132 ms
Remote clock offset: -9.073 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 73.915 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 73.915 ms
Loss rate: 0.89%

Run 3: Report of SReAM — Data Link

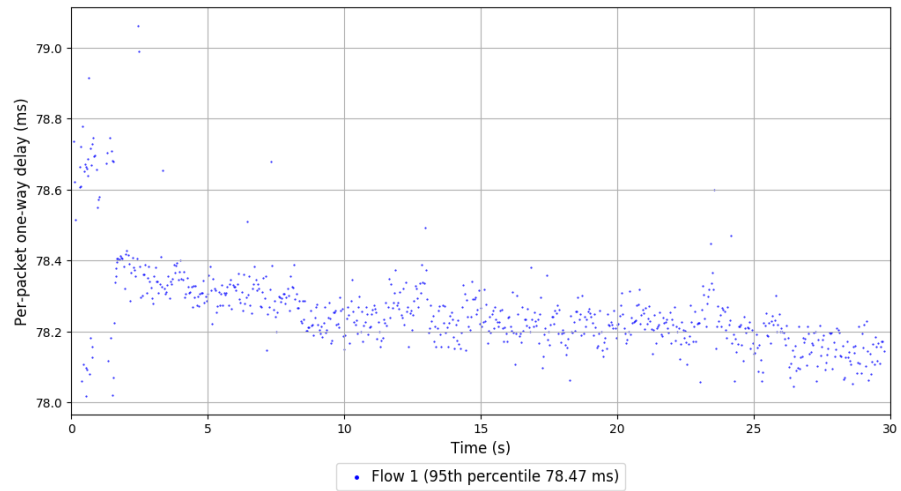
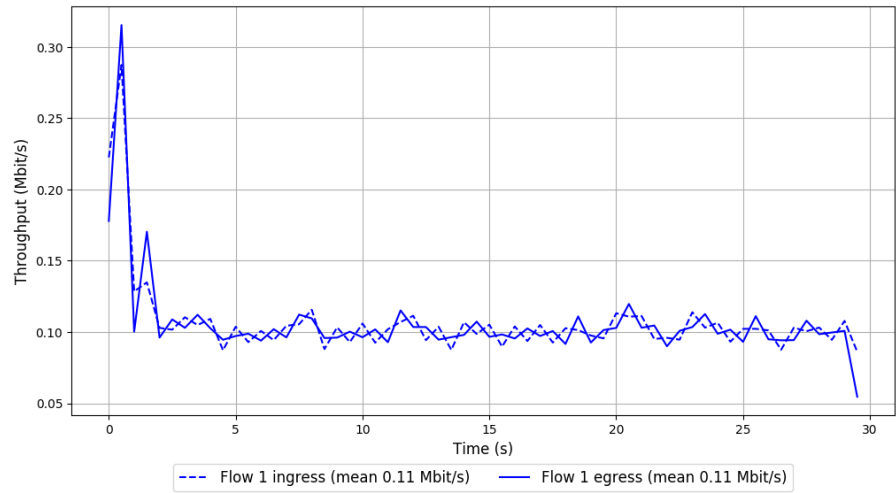


Run 4: Statistics of SCReAM

Start at: 2018-04-10 10:38:31
End at: 2018-04-10 10:39:01
Local clock offset: 2.114 ms
Remote clock offset: -14.228 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 78.471 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 78.471 ms
Loss rate: 0.73%

Run 4: Report of SReAM — Data Link

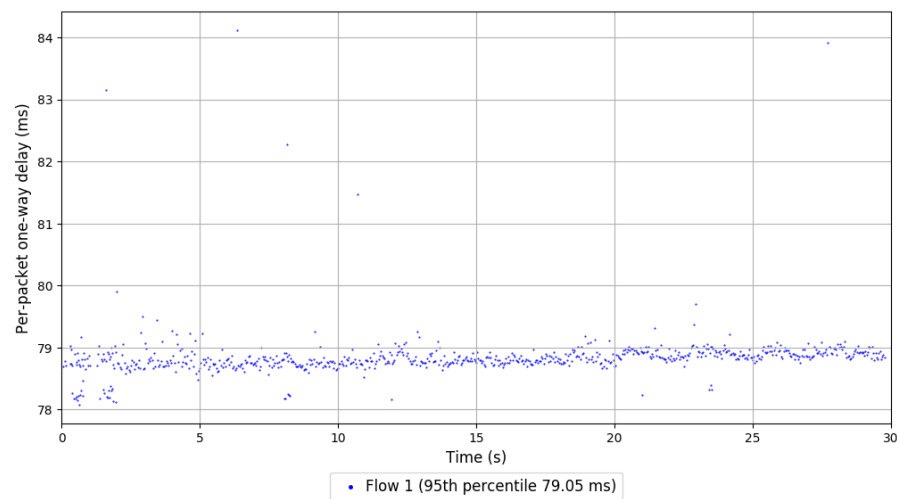
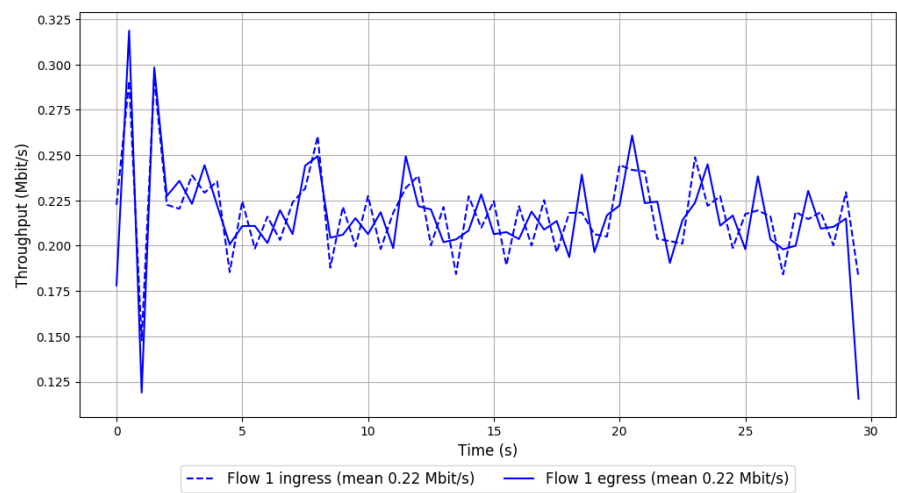


Run 5: Statistics of SCReAM

Start at: 2018-04-10 11:02:51
End at: 2018-04-10 11:03:21
Local clock offset: 2.047 ms
Remote clock offset: 17.432 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.054 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.054 ms
Loss rate: 0.76%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-10 11:28:11

End at: 2018-04-10 11:28:41

Local clock offset: 17.689 ms

Remote clock offset: 4.388 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.429 ms

Loss rate: 0.76%

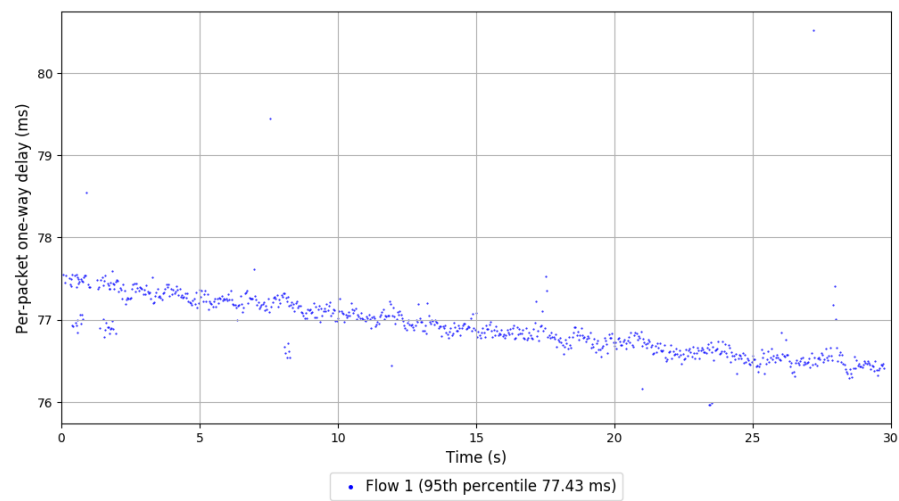
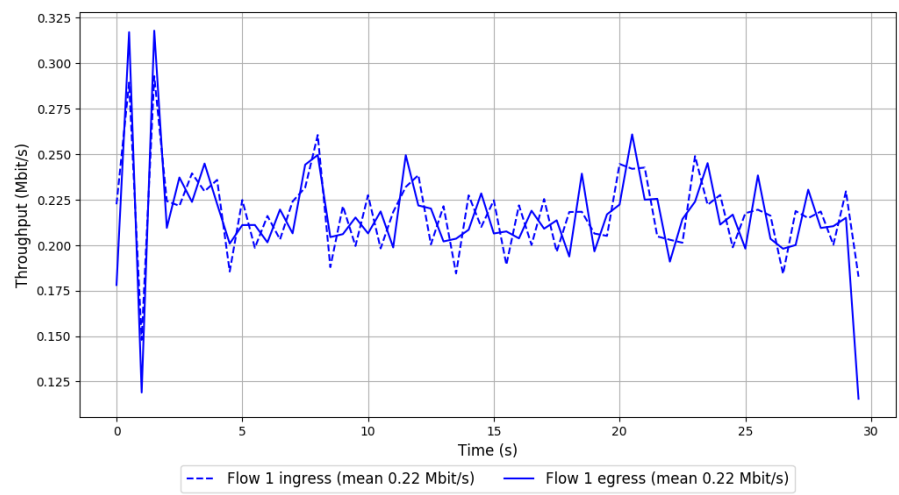
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 77.429 ms

Loss rate: 0.76%

Run 6: Report of SReAM — Data Link

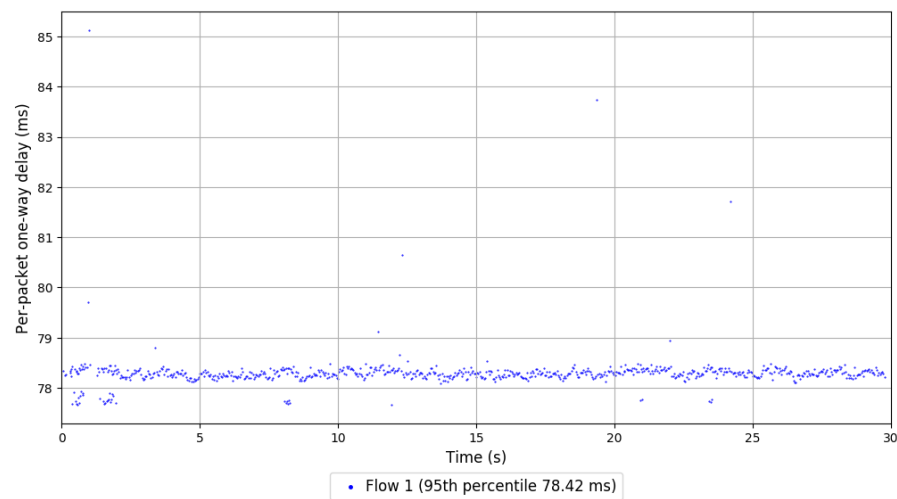
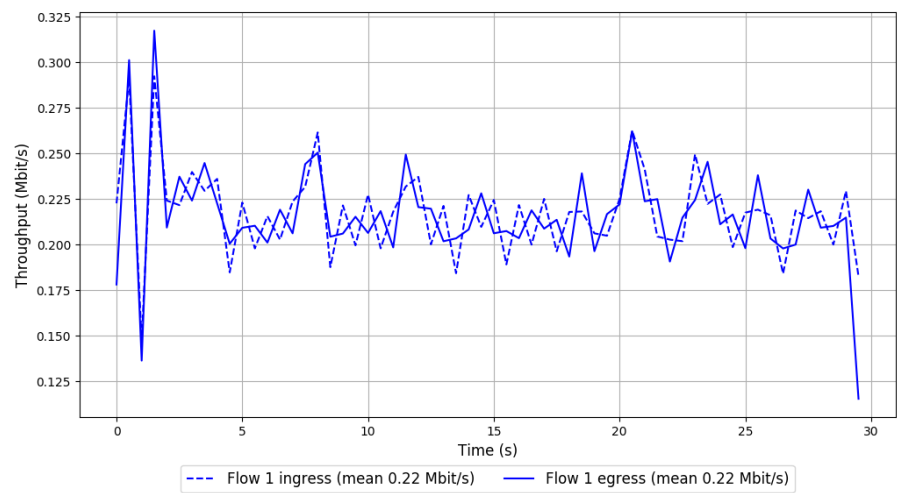


Run 7: Statistics of SCReAM

Start at: 2018-04-10 11:53:03
End at: 2018-04-10 11:53:33
Local clock offset: 38.285 ms
Remote clock offset: 0.602 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.423 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.423 ms
Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-04-10 12:17:27

End at: 2018-04-10 12:17:57

Local clock offset: 49.428 ms

Remote clock offset: 5.654 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 72.746 ms

Loss rate: 0.75%

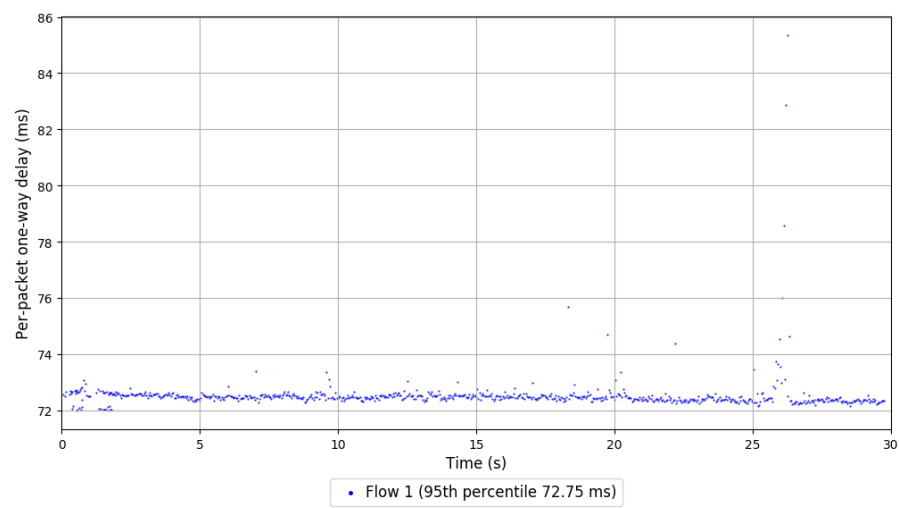
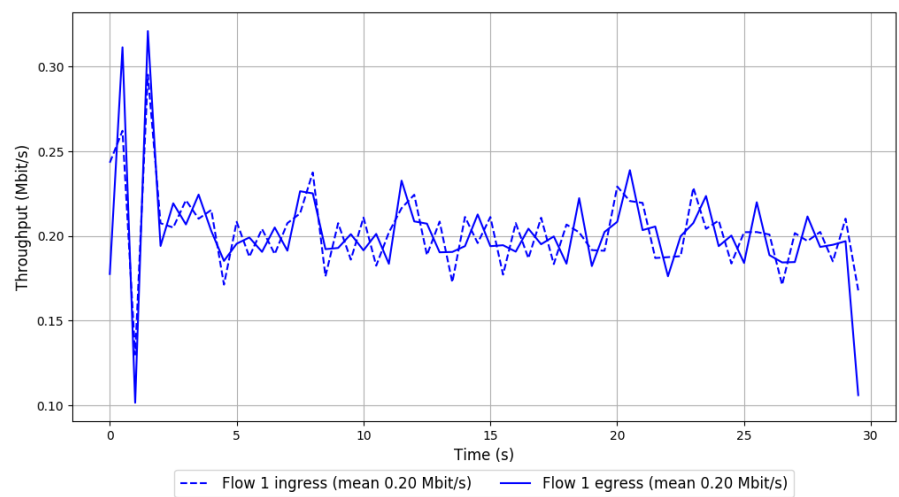
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 72.746 ms

Loss rate: 0.75%

Run 8: Report of SReAM — Data Link

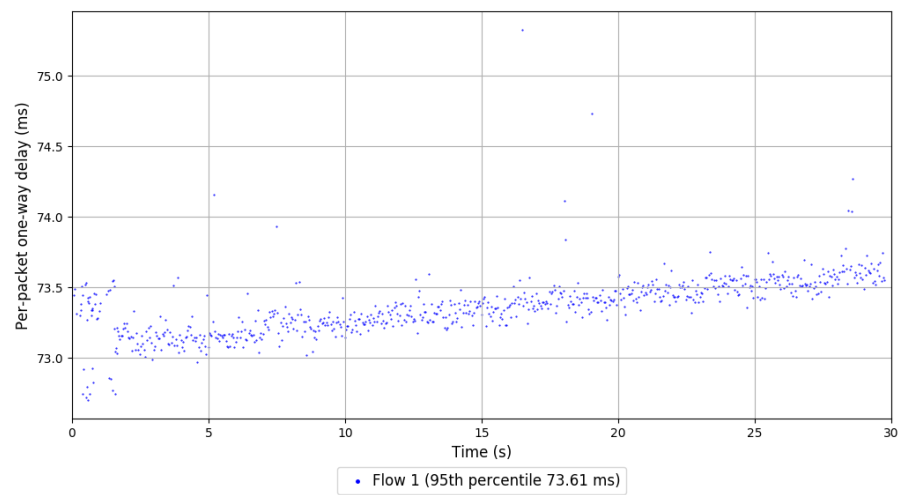
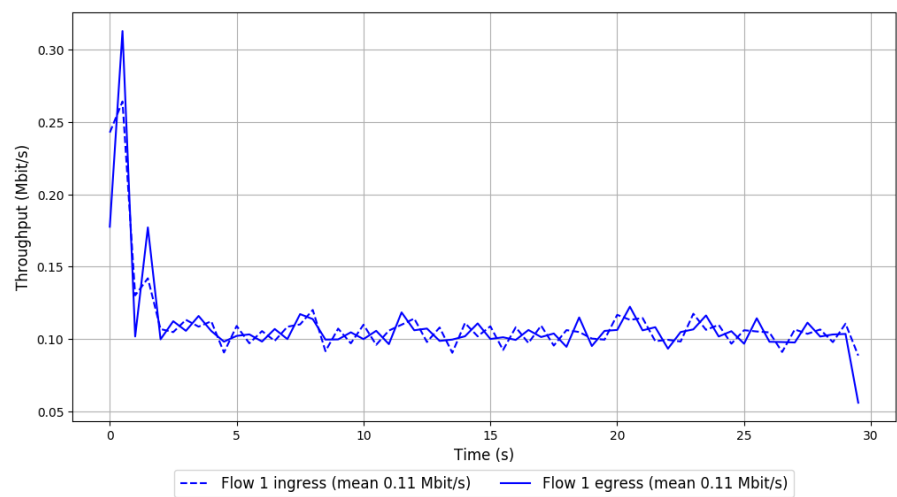


Run 9: Statistics of SReAM

Start at: 2018-04-10 12:42:10
End at: 2018-04-10 12:42:40
Local clock offset: 32.495 ms
Remote clock offset: 16.778 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 73.612 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 73.612 ms
Loss rate: 0.73%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-10 13:07:03

End at: 2018-04-10 13:07:33

Local clock offset: 22.487 ms

Remote clock offset: 7.28 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 76.569 ms

Loss rate: 0.73%

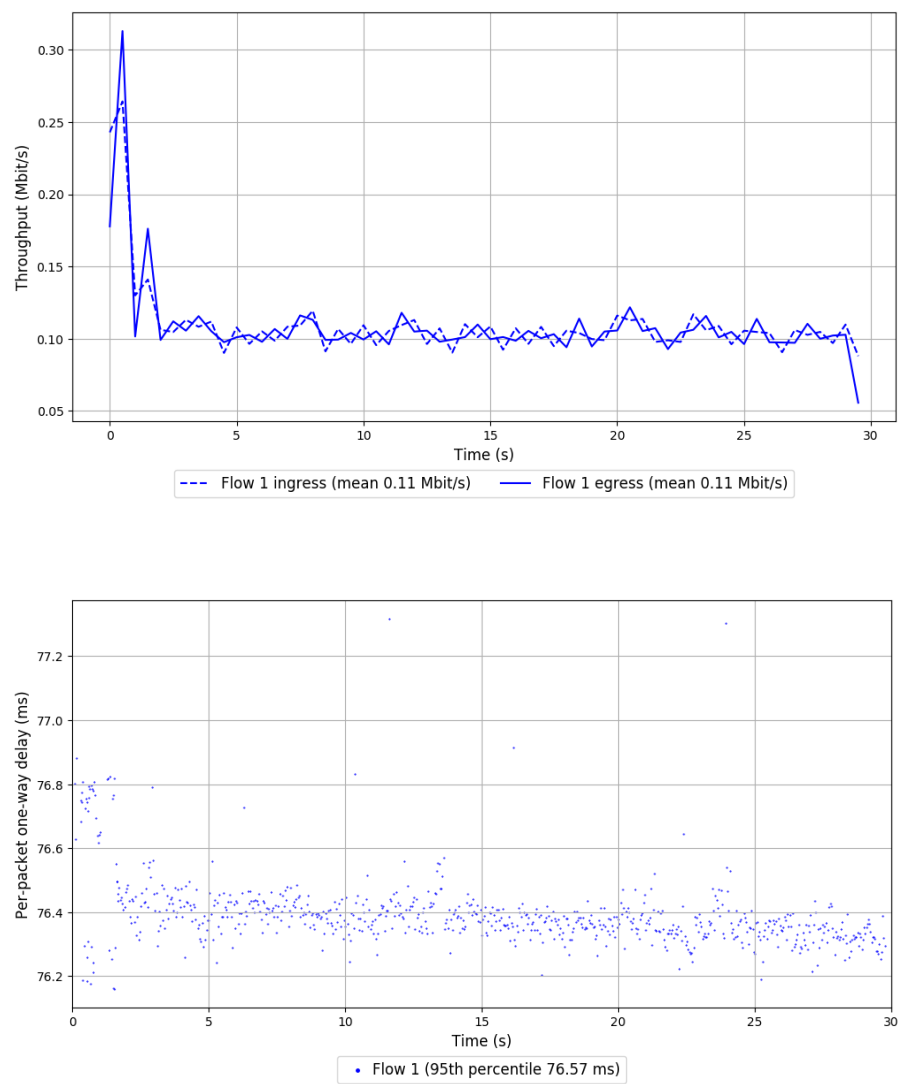
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 76.569 ms

Loss rate: 0.73%

Run 10: Report of SCReAM — Data Link

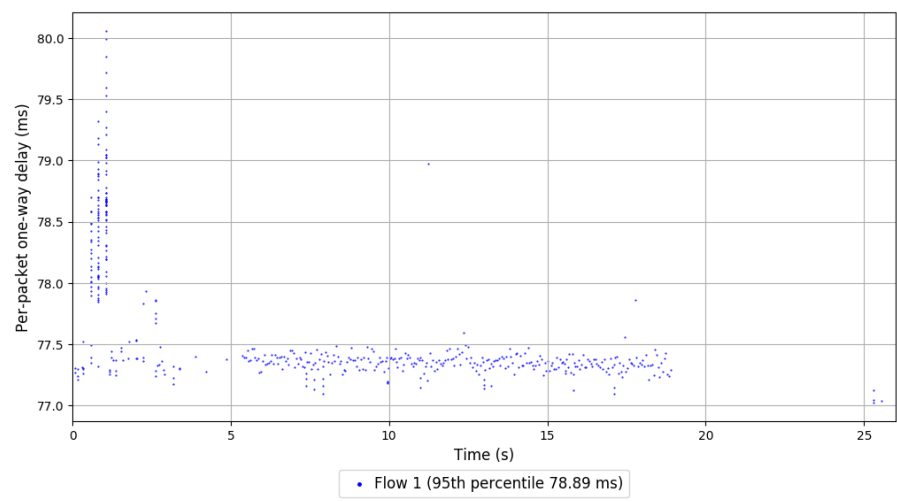
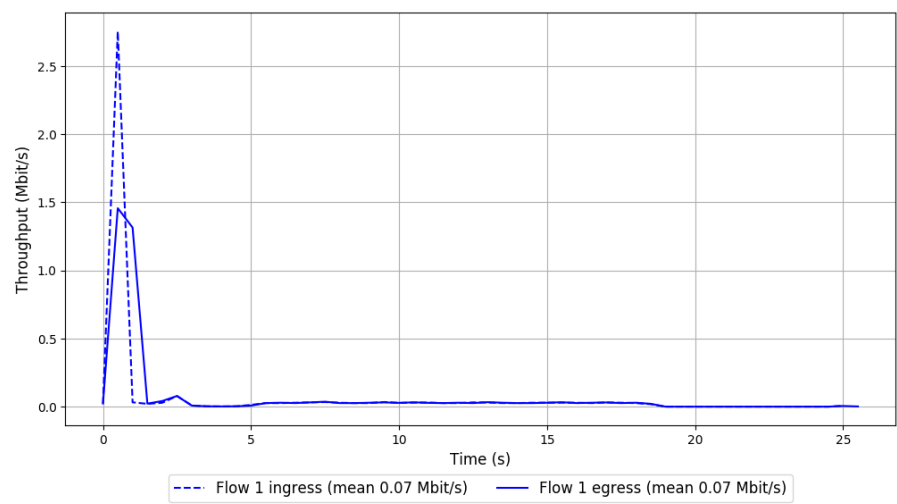


Run 1: Statistics of WebRTC media

Start at: 2018-04-10 09:26:37
End at: 2018-04-10 09:27:07
Local clock offset: 2.239 ms
Remote clock offset: -6.643 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 78.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 78.886 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

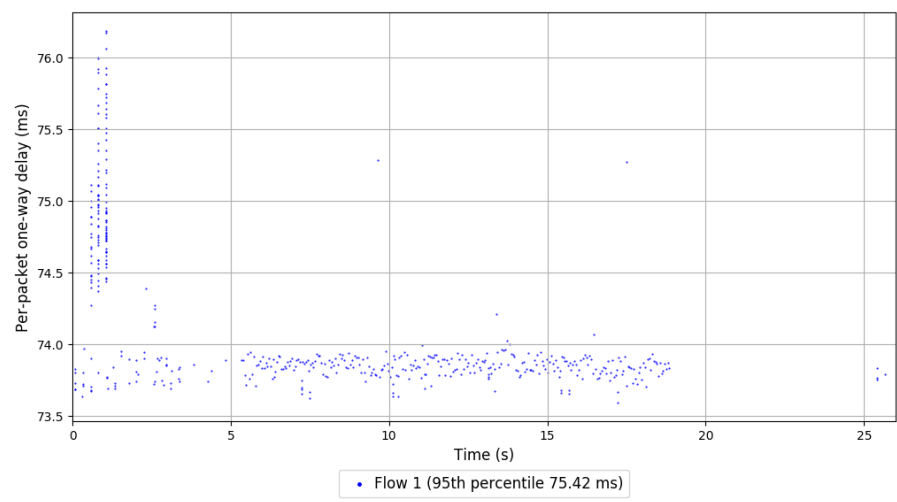
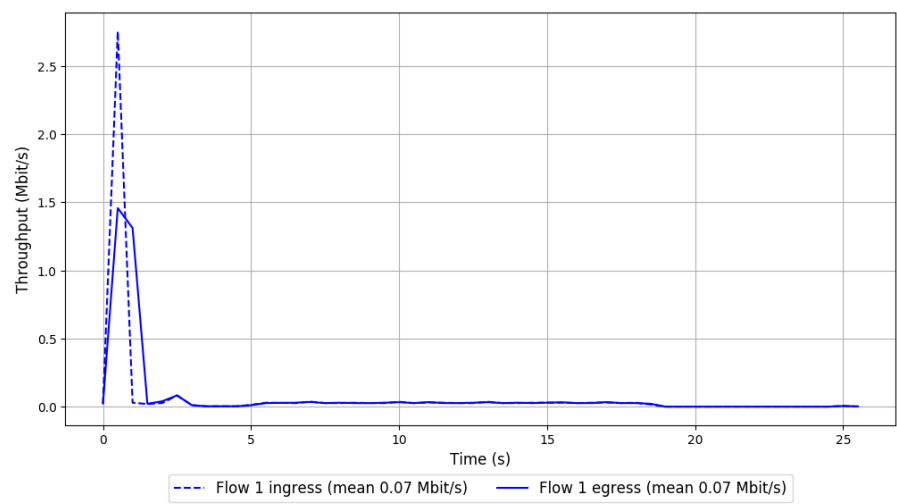


Run 2: Statistics of WebRTC media

Start at: 2018-04-10 09:51:00
End at: 2018-04-10 09:51:31
Local clock offset: 1.743 ms
Remote clock offset: -5.875 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 75.425 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 75.425 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

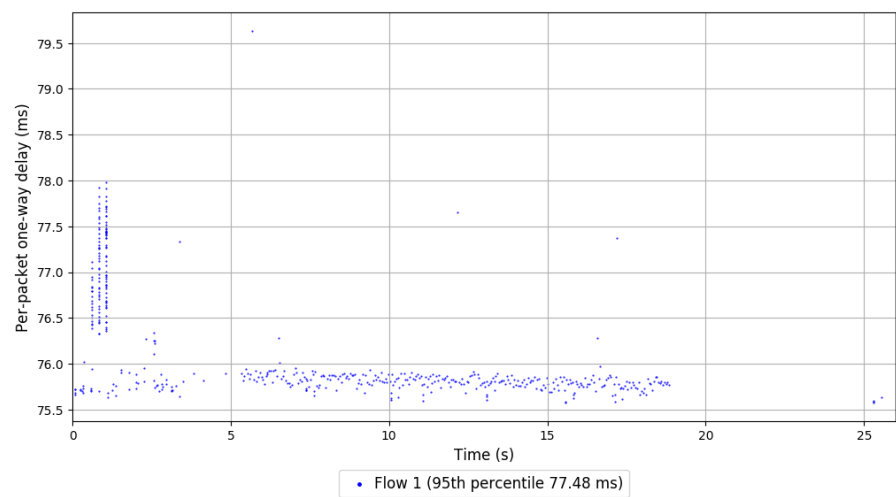
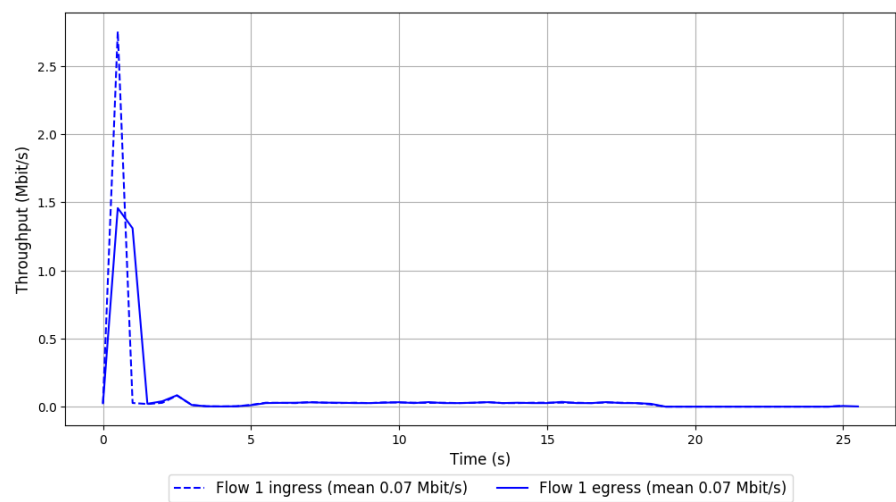


Run 3: Statistics of WebRTC media

Start at: 2018-04-10 10:16:36
End at: 2018-04-10 10:17:06
Local clock offset: 1.265 ms
Remote clock offset: -10.113 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 77.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 77.479 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

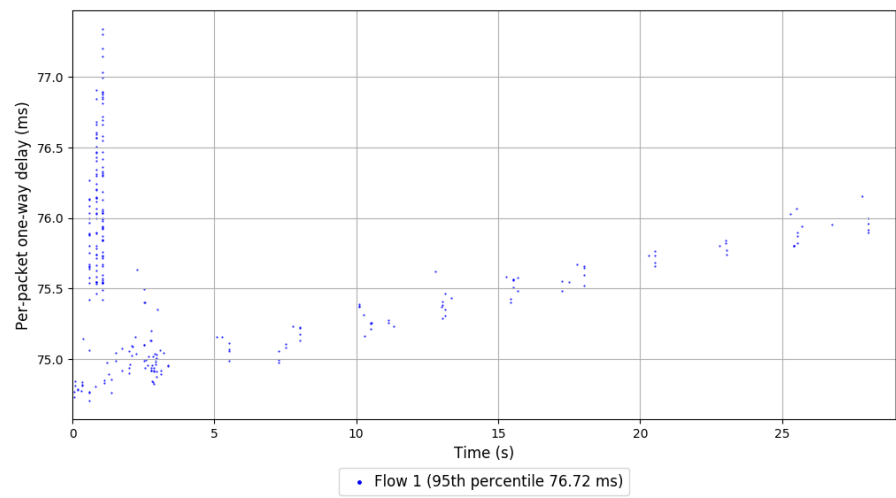
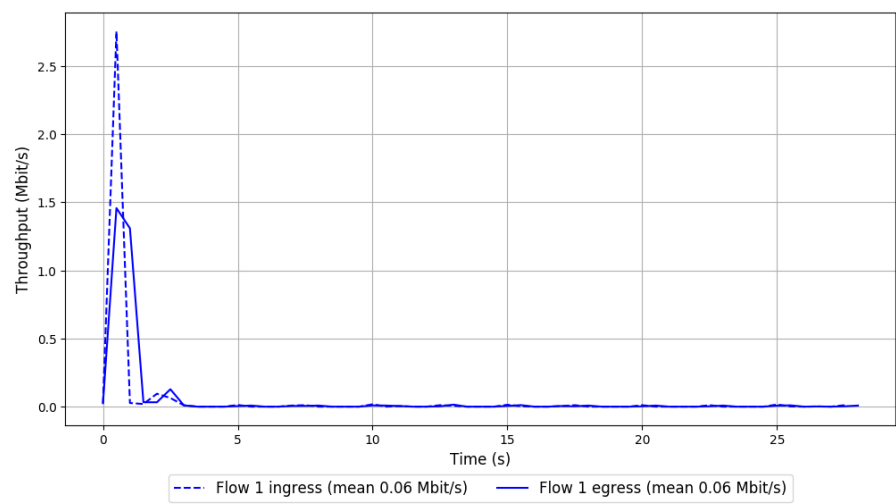


Run 4: Statistics of WebRTC media

Start at: 2018-04-10 10:43:49
End at: 2018-04-10 10:44:19
Local clock offset: 2.011 ms
Remote clock offset: -5.913 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 76.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 76.715 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 11:08:29

End at: 2018-04-10 11:08:59

Local clock offset: 1.955 ms

Remote clock offset: 20.15 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 74.041 ms

Loss rate: 0.00%

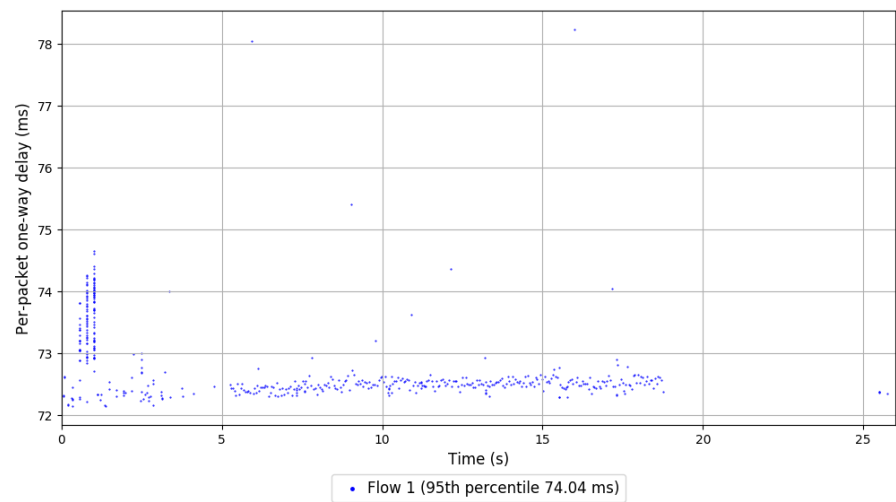
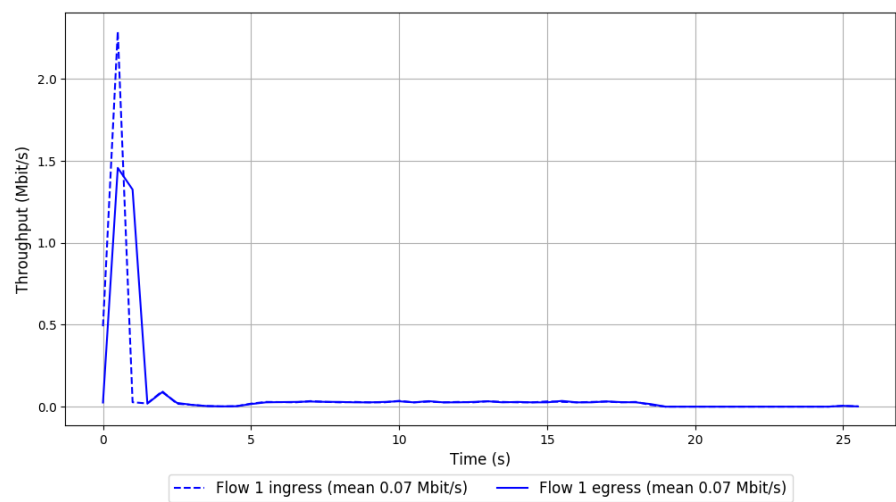
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 74.041 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 11:33:28

End at: 2018-04-10 11:33:58

Local clock offset: 24.721 ms

Remote clock offset: 1.522 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 77.627 ms

Loss rate: 0.00%

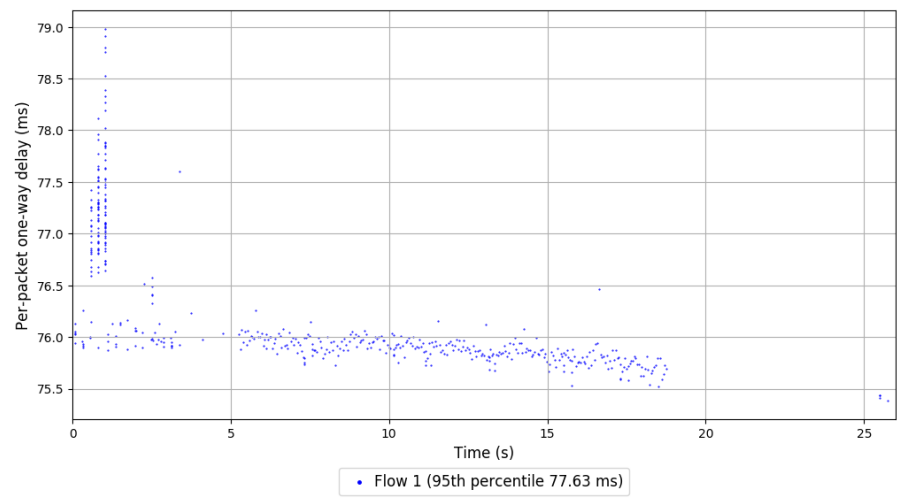
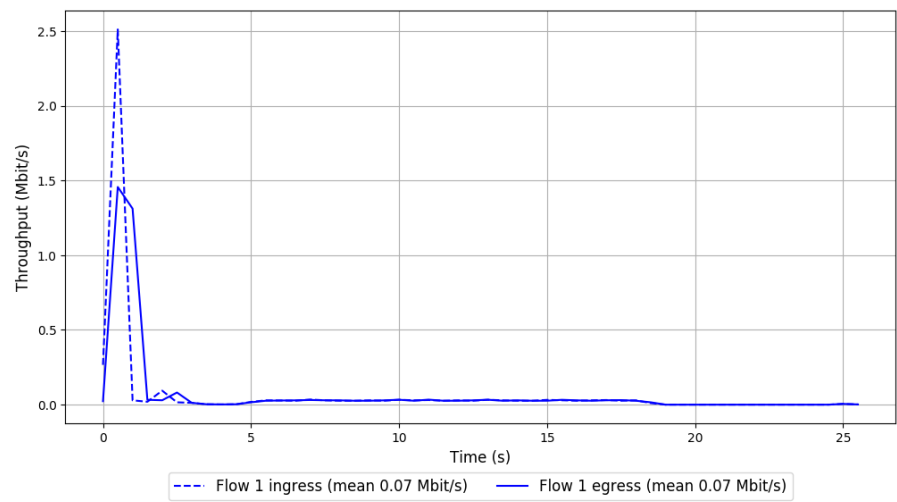
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 77.627 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 11:58:22

End at: 2018-04-10 11:58:52

Local clock offset: 40.961 ms

Remote clock offset: 3.28 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 73.743 ms

Loss rate: 0.00%

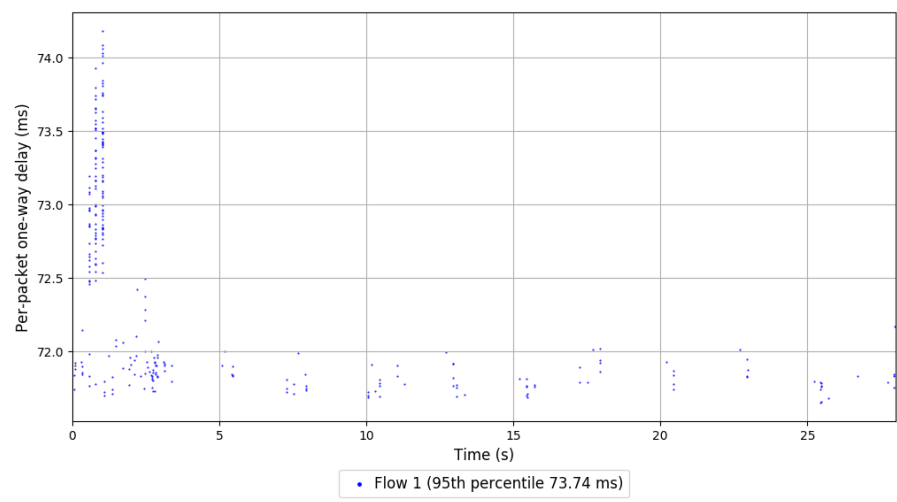
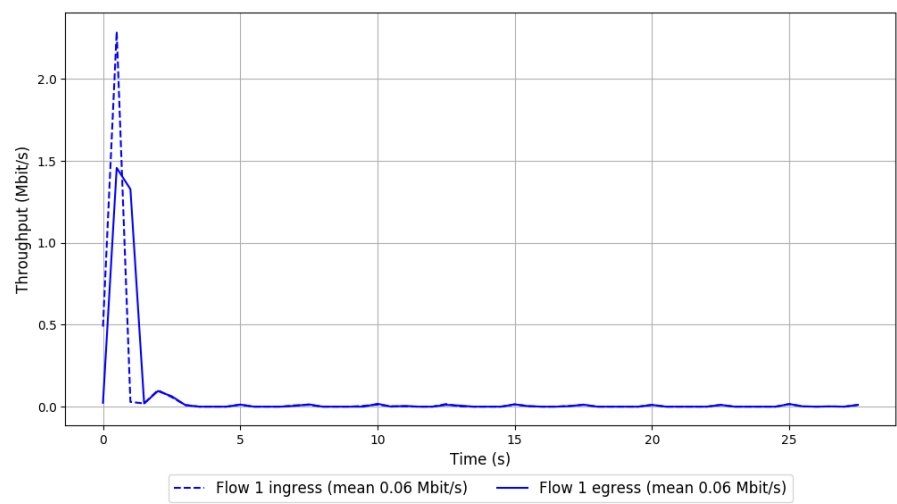
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 73.743 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-10 12:22:45

End at: 2018-04-10 12:23:15

Local clock offset: 51.71 ms

Remote clock offset: 5.93 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 138.128 ms

Loss rate: 0.07%

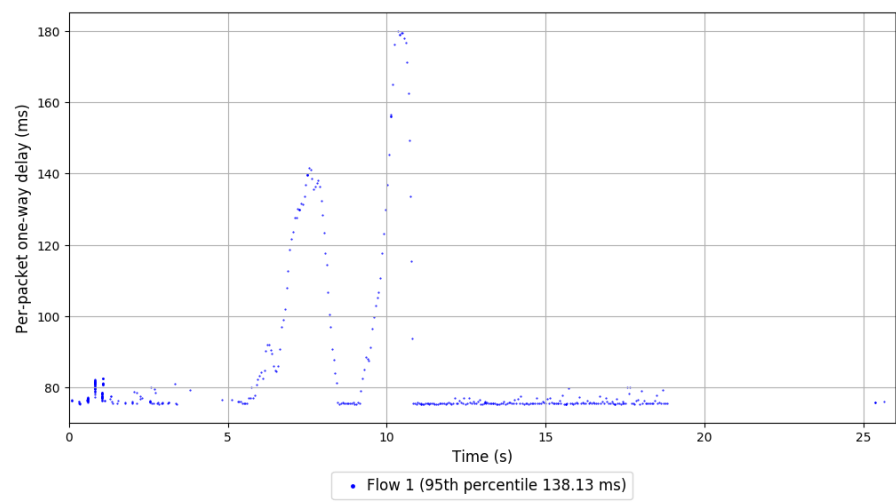
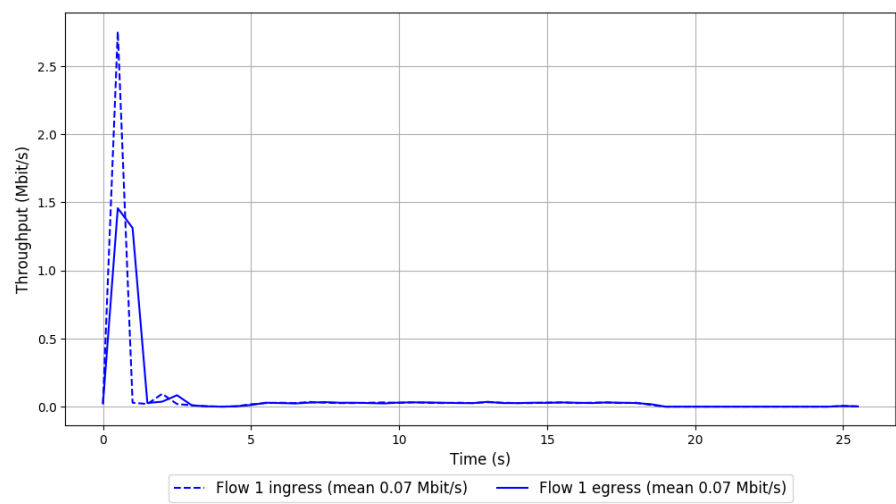
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 138.128 ms

Loss rate: 0.07%

Run 8: Report of WebRTC media — Data Link

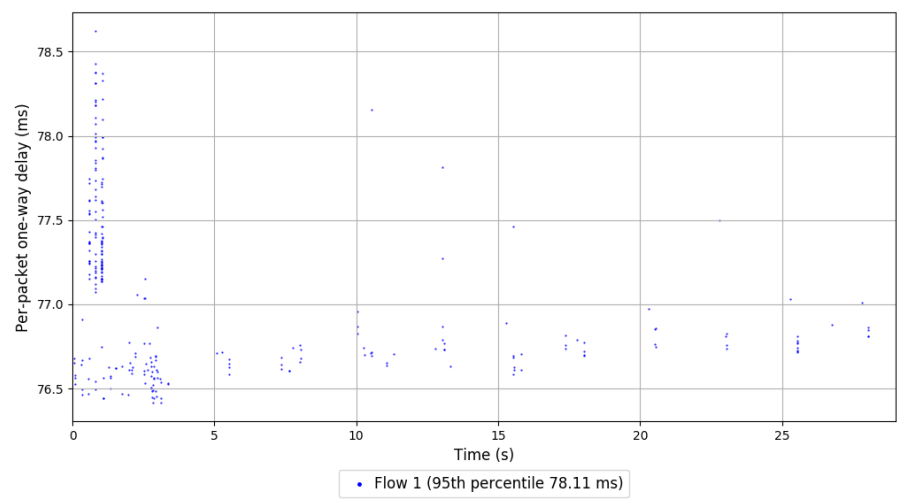
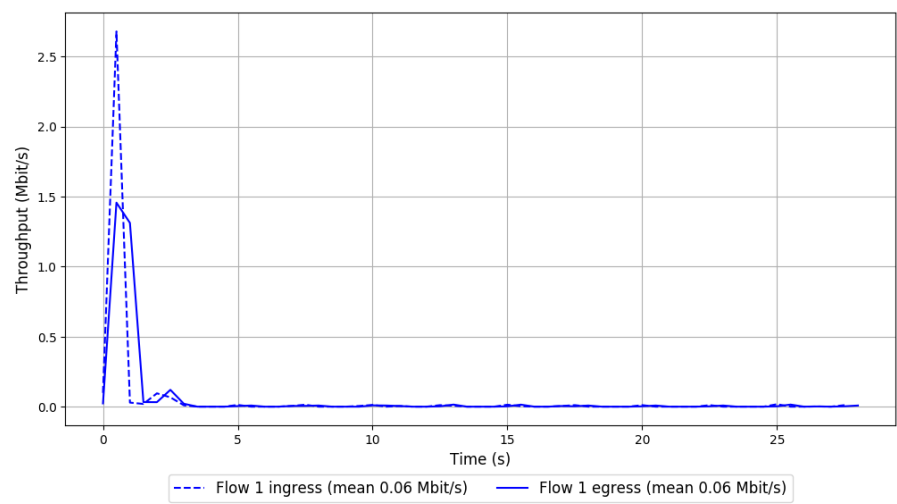


Run 9: Statistics of WebRTC media

Start at: 2018-04-10 12:47:39
End at: 2018-04-10 12:48:09
Local clock offset: 28.701 ms
Remote clock offset: 18.179 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 78.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 78.110 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-10 13:13:03

End at: 2018-04-10 13:13:33

Local clock offset: 20.005 ms

Remote clock offset: 3.925 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 78.340 ms

Loss rate: 0.00%

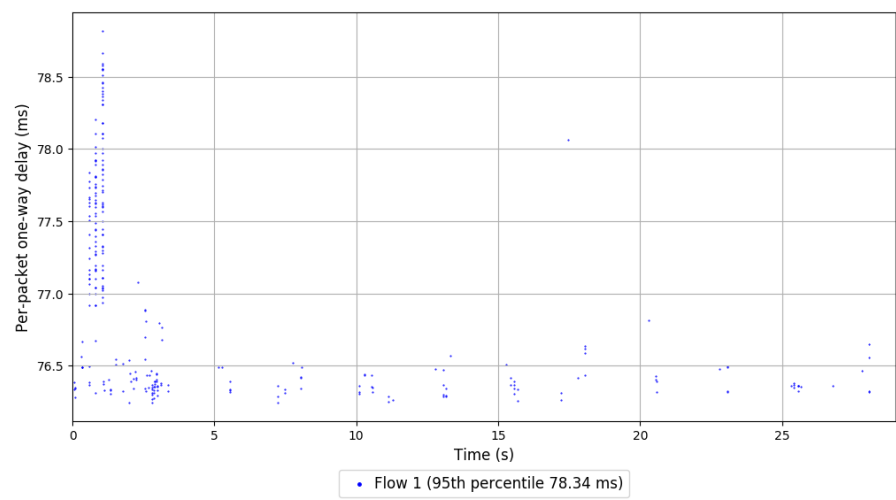
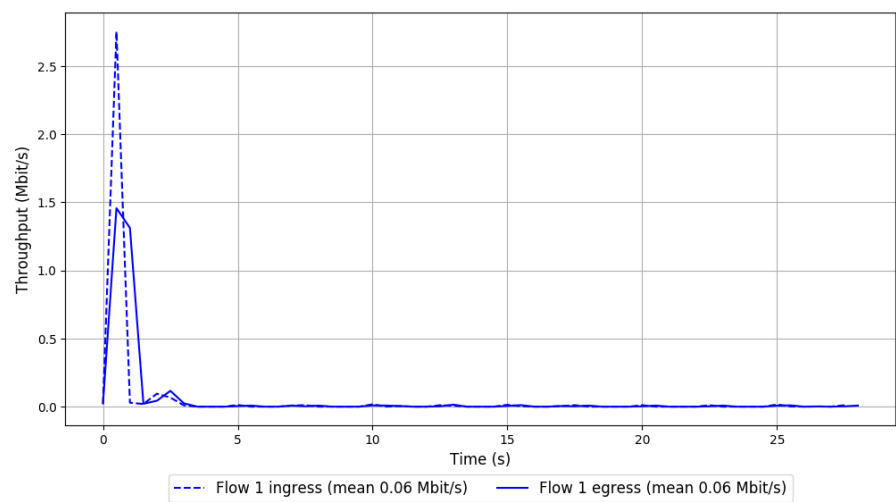
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 78.340 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-10 09:10:10

End at: 2018-04-10 09:10:40

Local clock offset: 2.156 ms

Remote clock offset: 4.337 ms

Below is generated by plot.py at 2018-04-10 17:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 75.074 ms

Loss rate: 0.72%

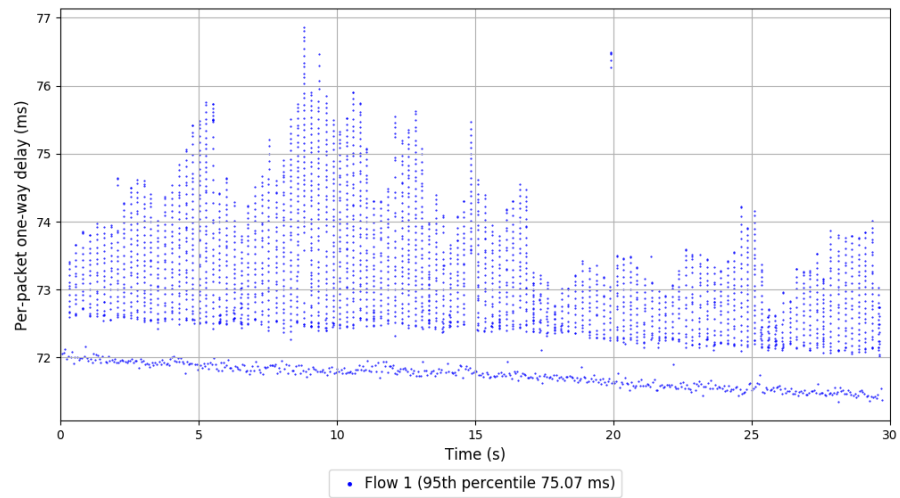
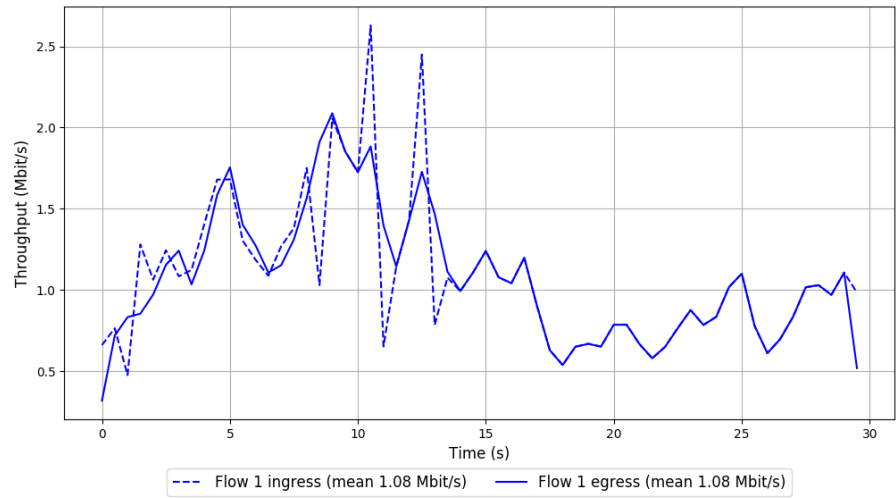
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 75.074 ms

Loss rate: 0.72%

Run 1: Report of Sprout — Data Link

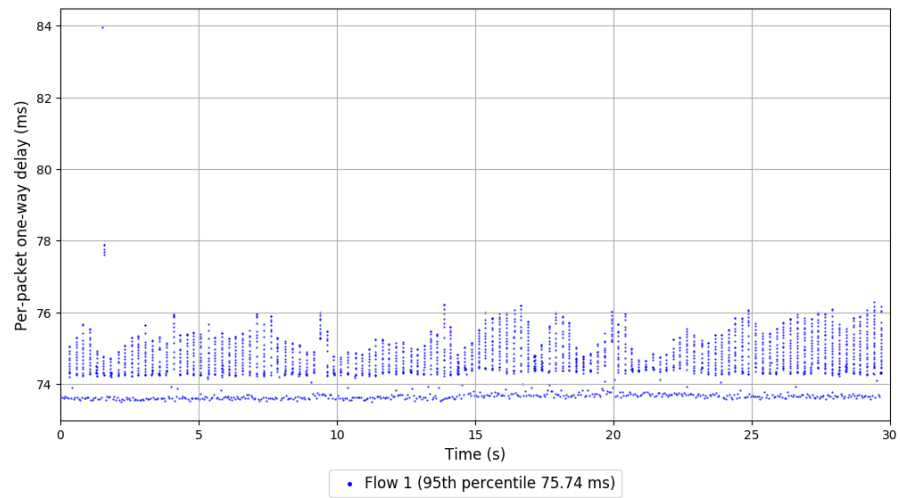
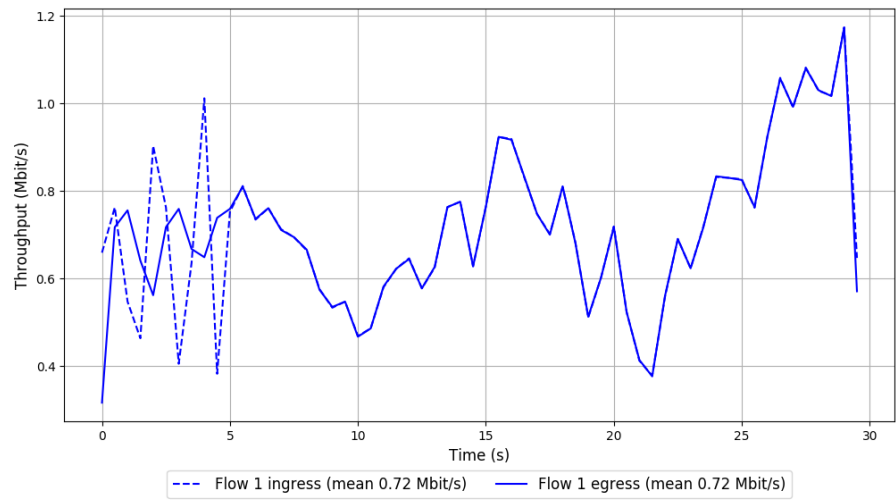


Run 2: Statistics of Sprout

Start at: 2018-04-10 09:36:09
End at: 2018-04-10 09:36:39
Local clock offset: 2.622 ms
Remote clock offset: -5.762 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 75.744 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 75.744 ms
Loss rate: 0.19%

Run 2: Report of Sprout — Data Link

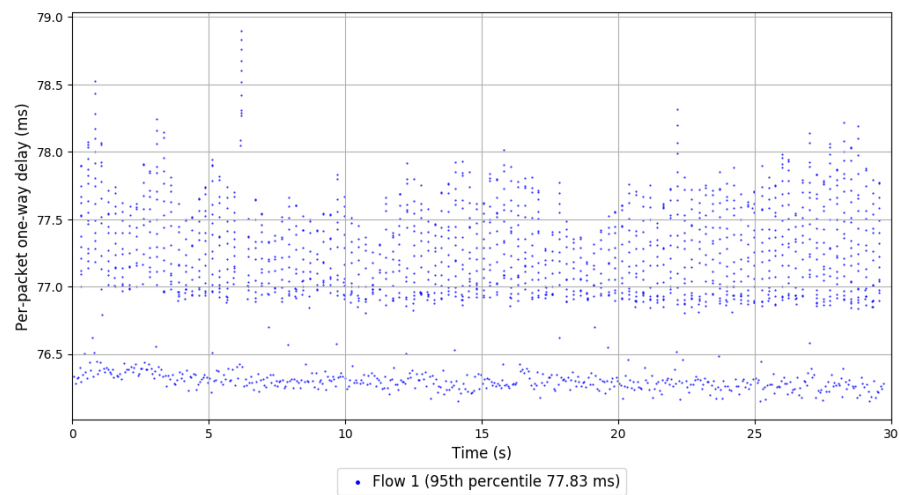
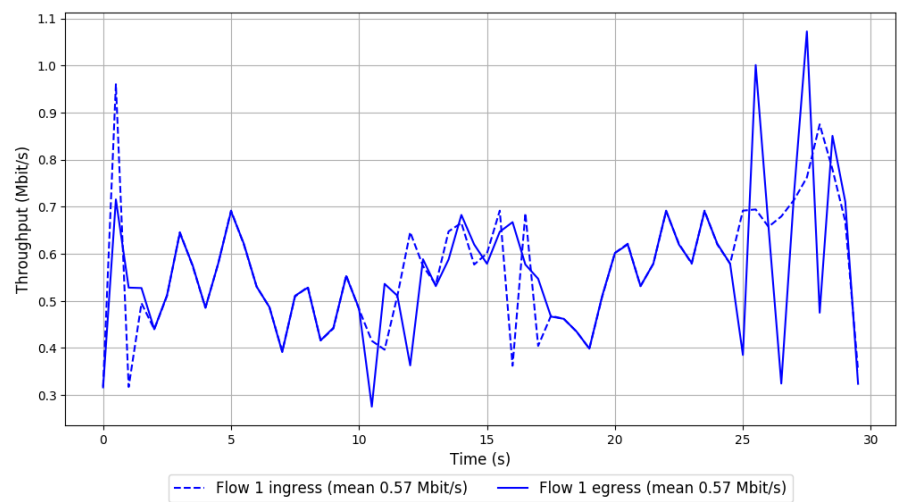


Run 3: Statistics of Sprout

Start at: 2018-04-10 10:00:29
End at: 2018-04-10 10:00:59
Local clock offset: 1.212 ms
Remote clock offset: -7.263 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 77.833 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 77.833 ms
Loss rate: 1.02%

Run 3: Report of Sprout — Data Link

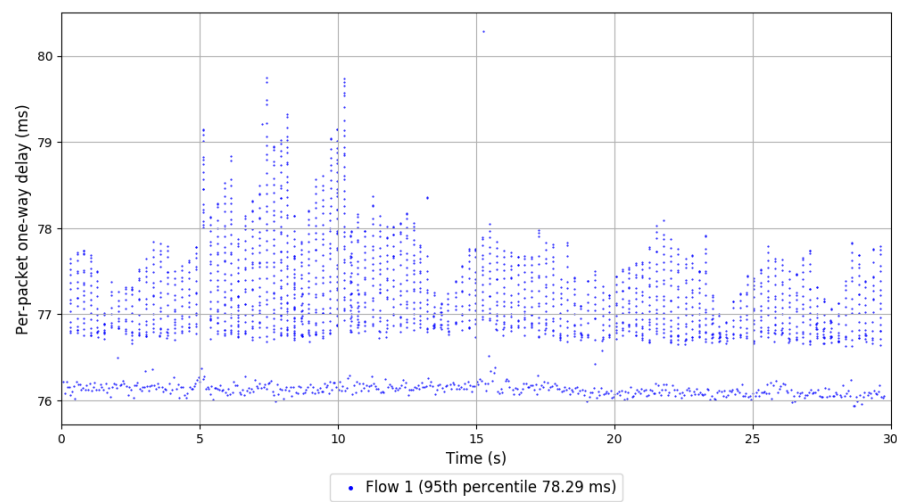
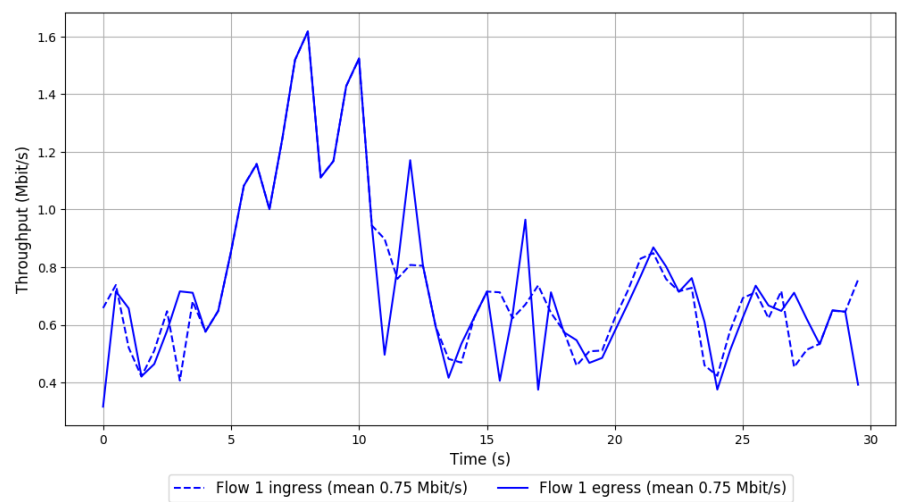


Run 4: Statistics of Sprout

Start at: 2018-04-10 10:26:19
End at: 2018-04-10 10:26:49
Local clock offset: 1.667 ms
Remote clock offset: -12.017 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 78.289 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 78.289 ms
Loss rate: 0.81%

Run 4: Report of Sprout — Data Link

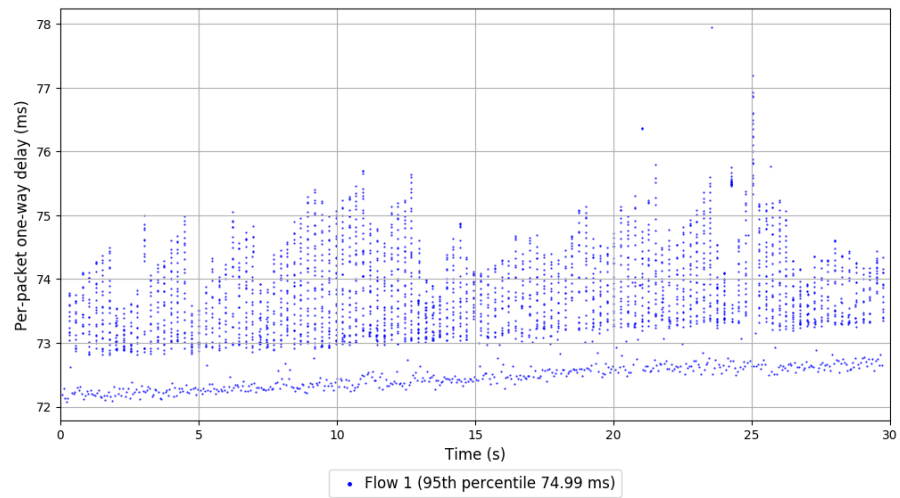
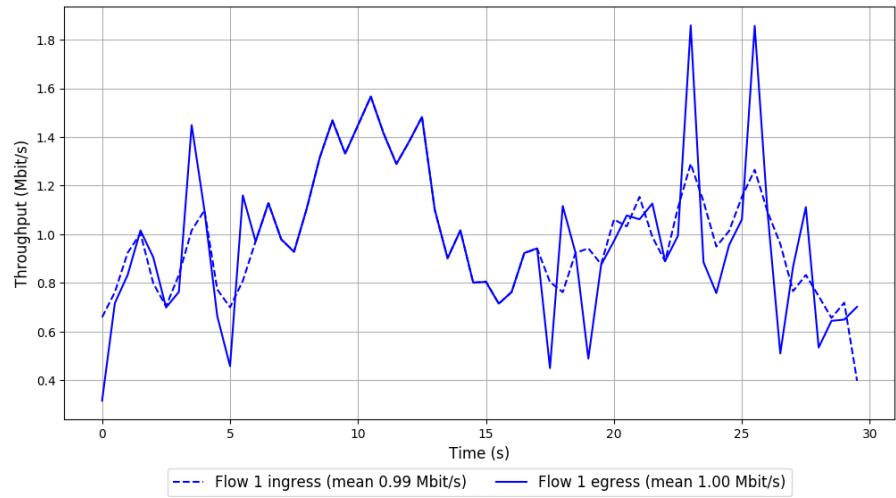


Run 5: Statistics of Sprout

Start at: 2018-04-10 10:53:13
End at: 2018-04-10 10:53:43
Local clock offset: 1.902 ms
Remote clock offset: 10.082 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 74.993 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 74.993 ms
Loss rate: 0.10%

Run 5: Report of Sprout — Data Link

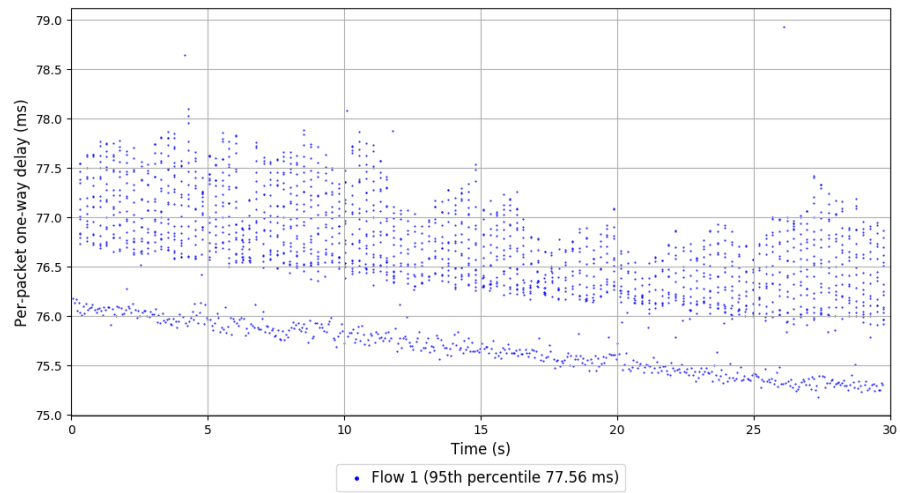
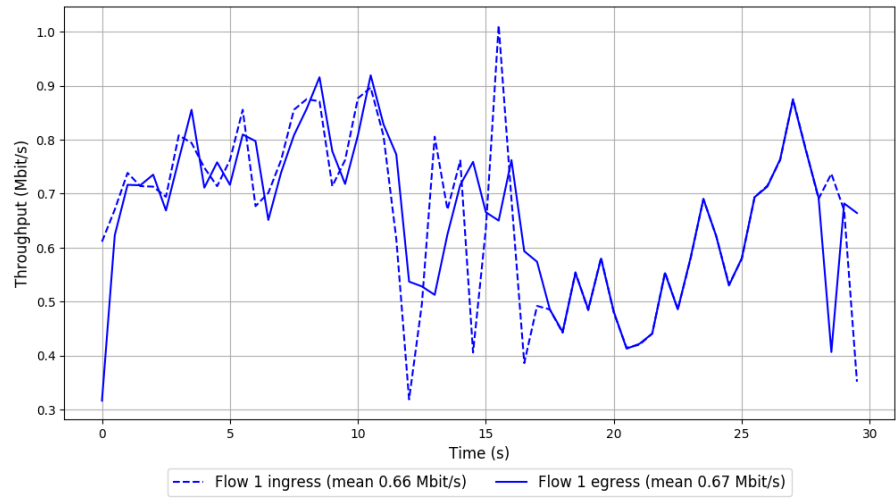


Run 6: Statistics of Sprout

Start at: 2018-04-10 11:18:09
End at: 2018-04-10 11:18:39
Local clock offset: 2.053 ms
Remote clock offset: 15.502 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 77.560 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 77.560 ms
Loss rate: 0.02%

Run 6: Report of Sprout — Data Link

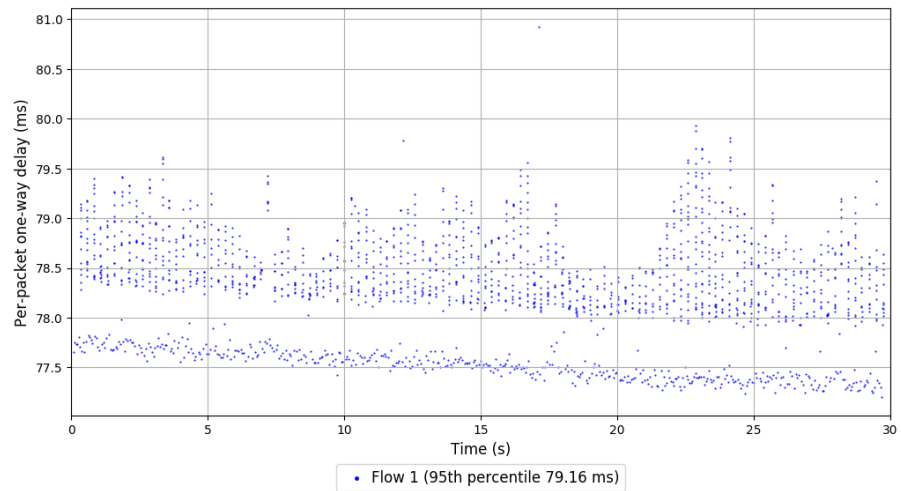
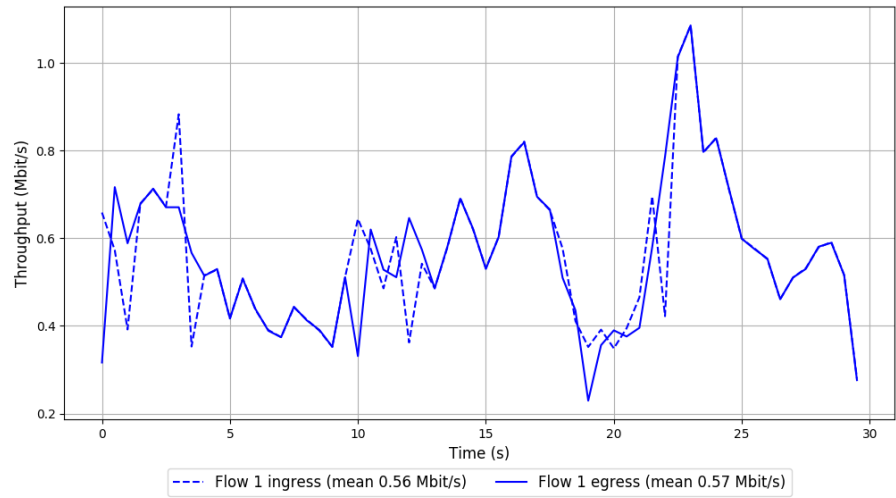


Run 7: Statistics of Sprout

Start at: 2018-04-10 11:42:55
End at: 2018-04-10 11:43:25
Local clock offset: 32.638 ms
Remote clock offset: -1.467 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 79.162 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 79.162 ms
Loss rate: 0.02%

Run 7: Report of Sprout — Data Link

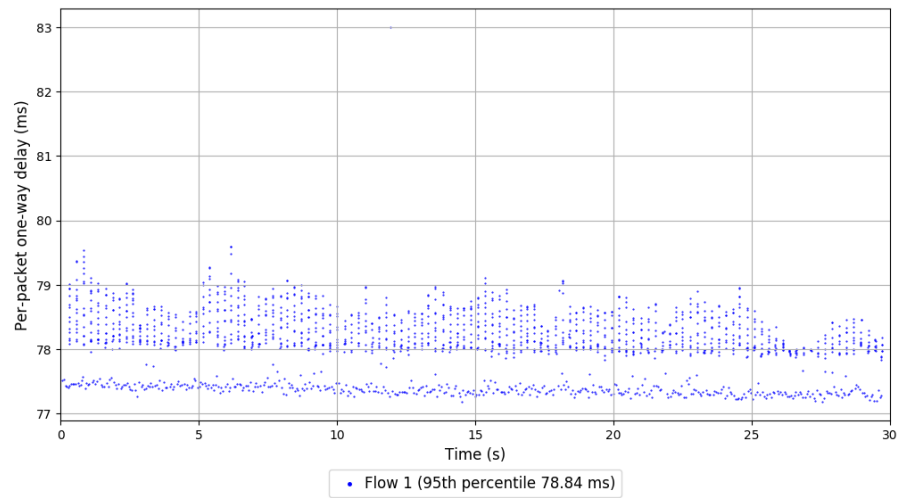
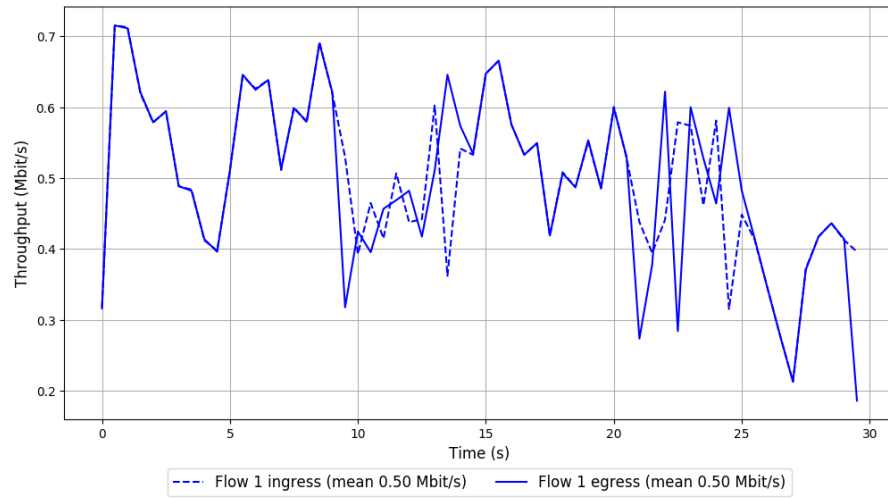


Run 8: Statistics of Sprout

Start at: 2018-04-10 12:07:49
End at: 2018-04-10 12:08:19
Local clock offset: 45.108 ms
Remote clock offset: 5.251 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 78.845 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 78.845 ms
Loss rate: 0.70%

Run 8: Report of Sprout — Data Link

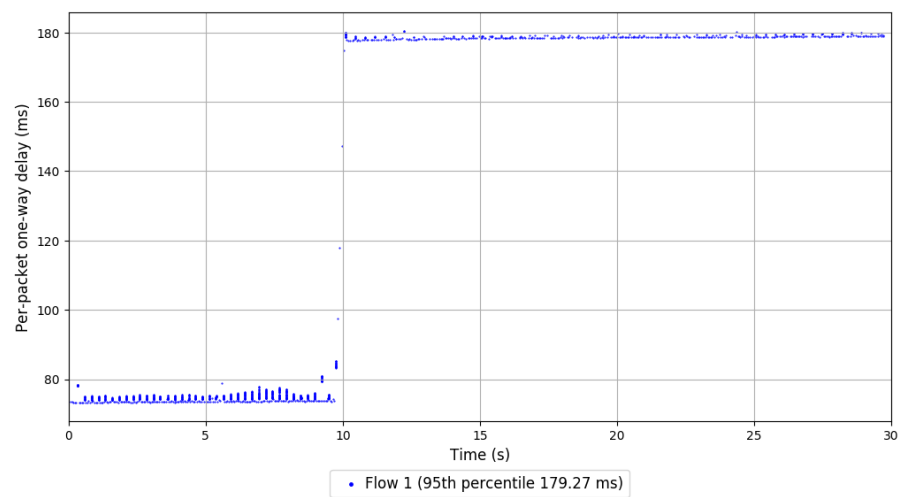
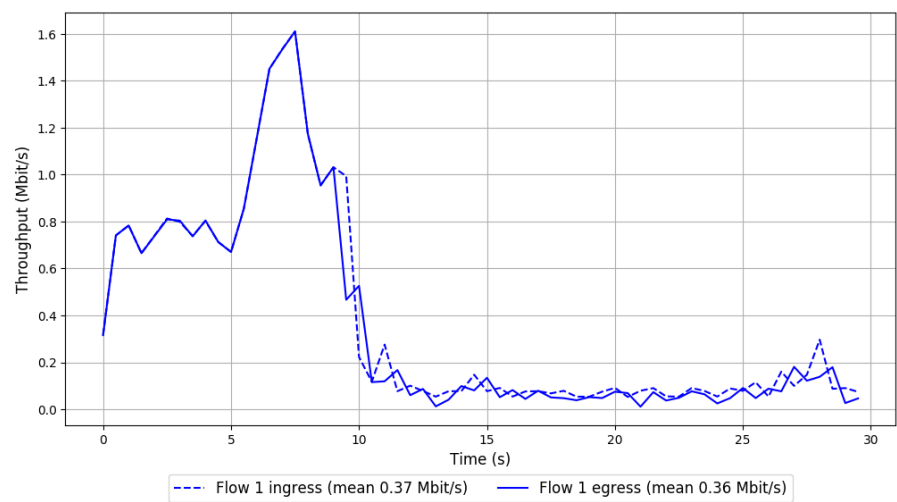


Run 9: Statistics of Sprout

Start at: 2018-04-10 12:32:25
End at: 2018-04-10 12:32:55
Local clock offset: 46.834 ms
Remote clock offset: 13.056 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 179.271 ms
Loss rate: 4.19%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 179.271 ms
Loss rate: 4.19%

Run 9: Report of Sprout — Data Link

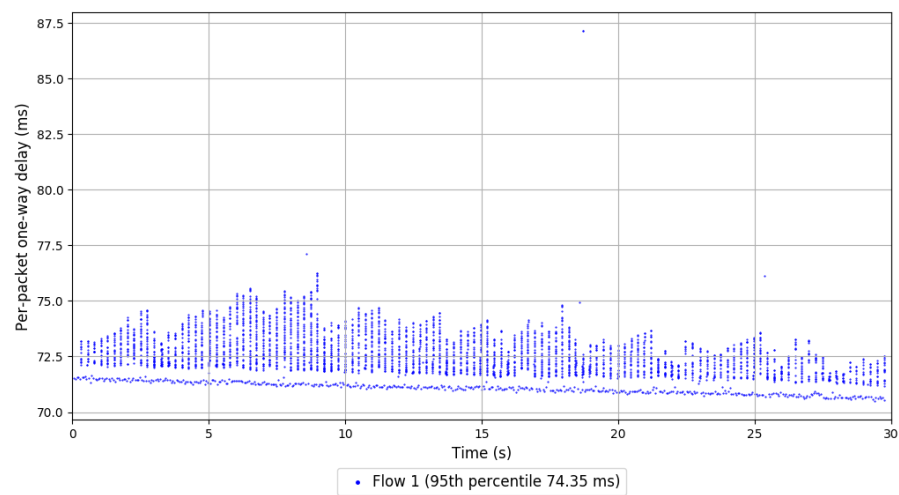
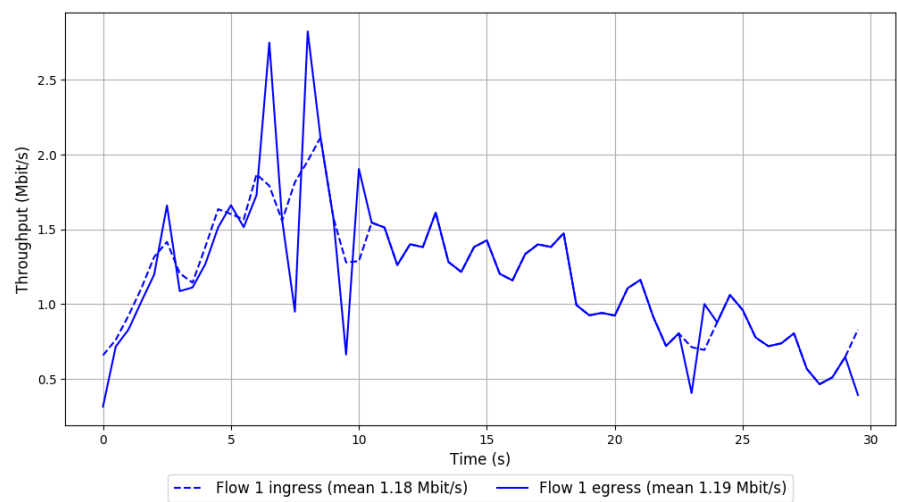


Run 10: Statistics of Sprout

Start at: 2018-04-10 12:57:28
End at: 2018-04-10 12:57:58
Local clock offset: 25.664 ms
Remote clock offset: 20.054 ms

Below is generated by plot.py at 2018-04-10 17:21:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 74.353 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 74.353 ms
Loss rate: 0.62%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 09:14:15

End at: 2018-04-10 09:14:45

Local clock offset: 2.247 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2018-04-10 17:22:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 95.393 ms

Loss rate: 1.93%

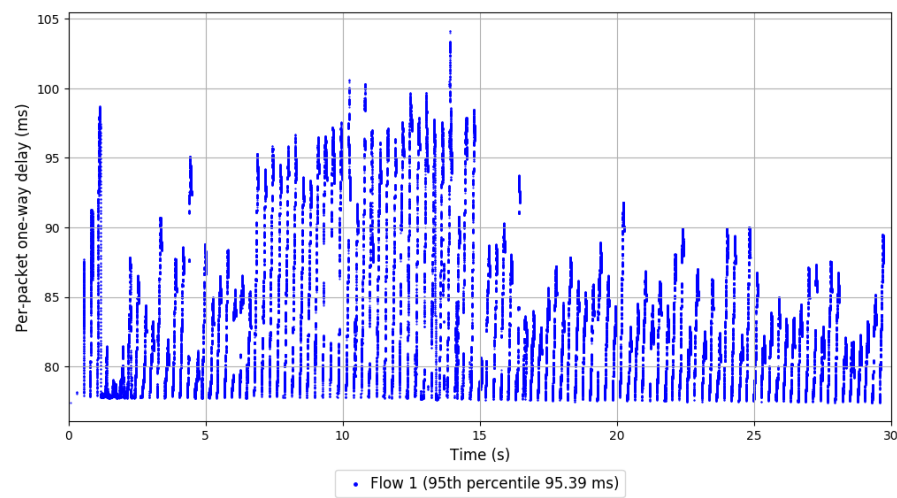
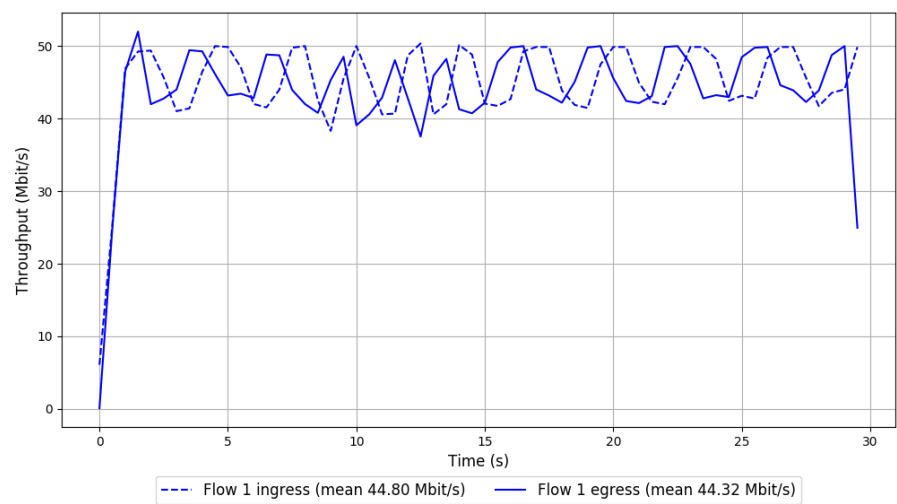
-- Flow 1:

Average throughput: 44.32 Mbit/s

95th percentile per-packet one-way delay: 95.393 ms

Loss rate: 1.93%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 09:40:13

End at: 2018-04-10 09:40:43

Local clock offset: 2.531 ms

Remote clock offset: -5.307 ms

Below is generated by plot.py at 2018-04-10 17:22:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 92.898 ms

Loss rate: 2.19%

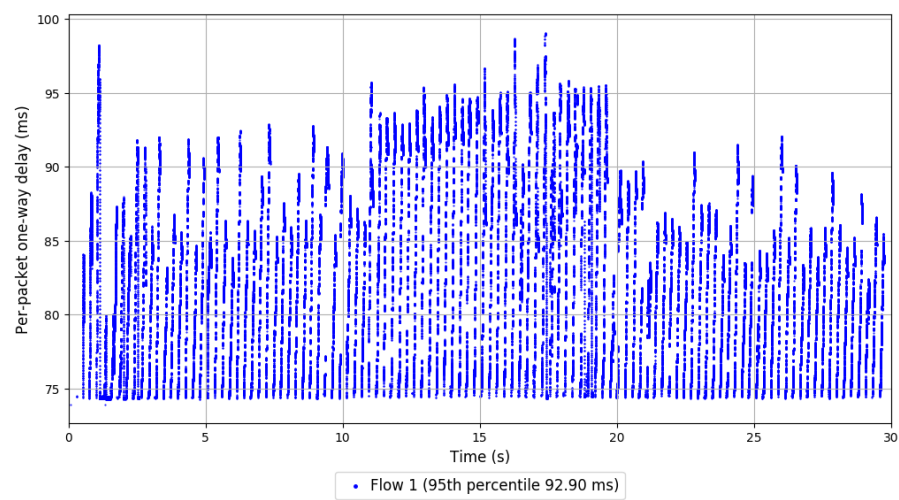
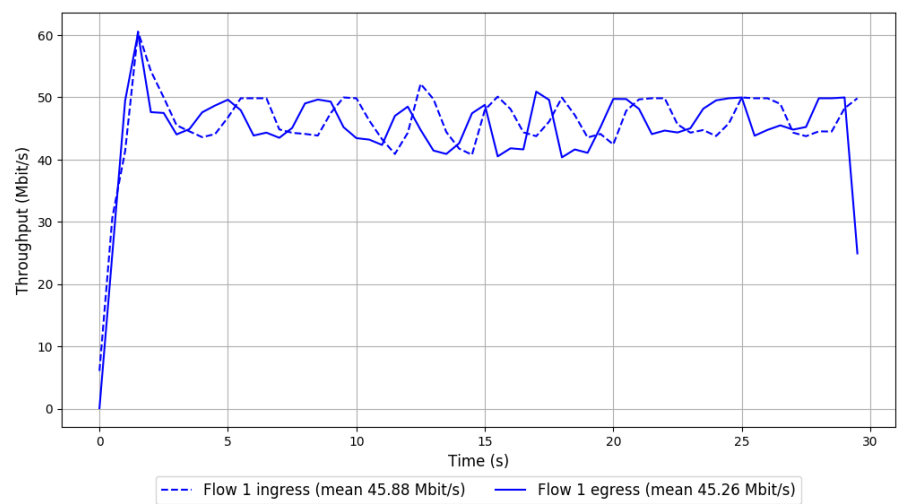
-- Flow 1:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 92.898 ms

Loss rate: 2.19%

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



Run 3: Statistics of TaoVA-100x

/home/ubuntu/pantheon_data/2018-04-10T09-00-China-to-AWS-Korea-10-runs/taova_stats_run3.log

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

Figure is missing

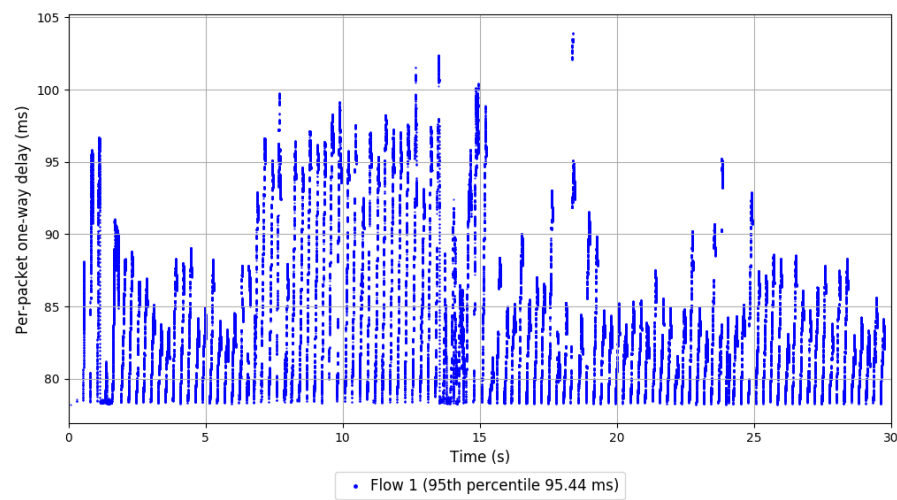
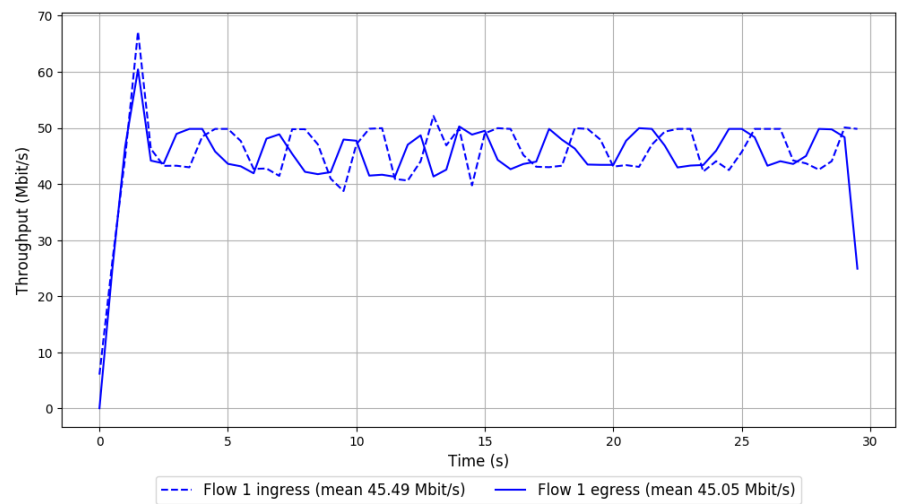
Figure is missing

Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 10:30:23
End at: 2018-04-10 10:30:53
Local clock offset: 1.915 ms
Remote clock offset: -12.876 ms

Below is generated by plot.py at 2018-04-10 17:22:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.05 Mbit/s
95th percentile per-packet one-way delay: 95.440 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 45.05 Mbit/s
95th percentile per-packet one-way delay: 95.440 ms
Loss rate: 1.83%

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

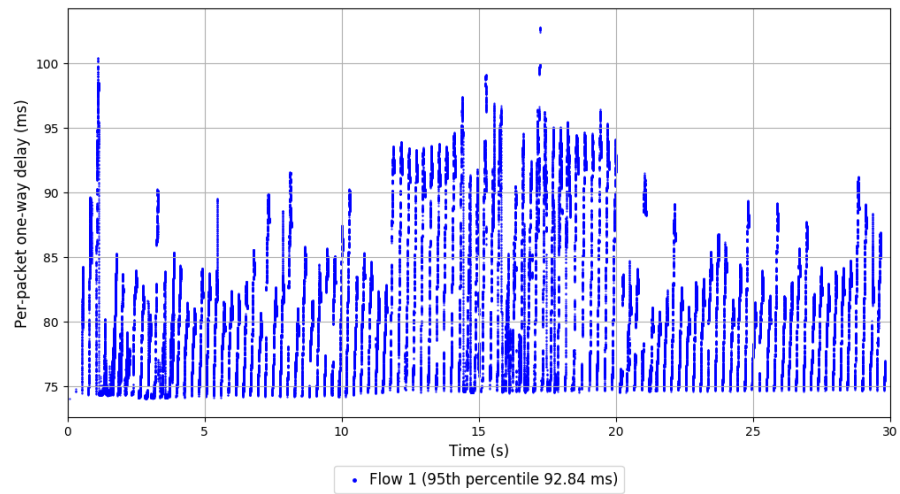
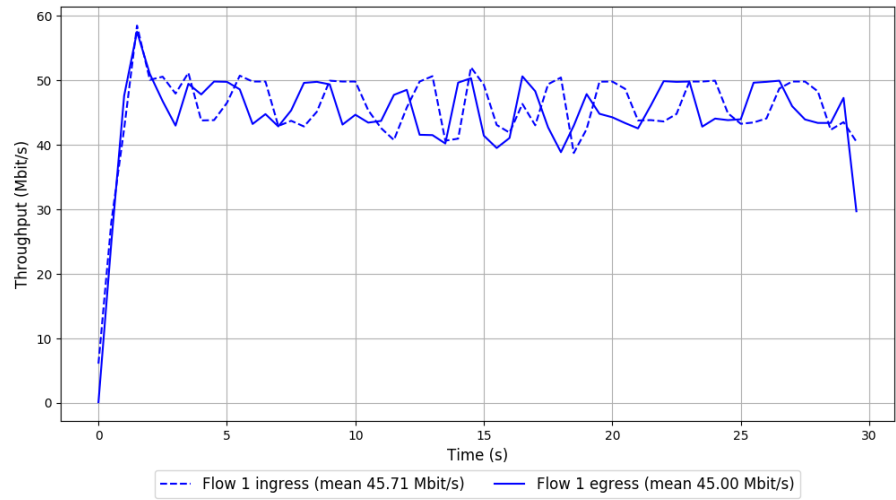


Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 10:57:19
End at: 2018-04-10 10:57:49
Local clock offset: 2.078 ms
Remote clock offset: 13.878 ms

Below is generated by plot.py at 2018-04-10 17:22:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 45.00 Mbit/s
95th percentile per-packet one-way delay: 92.840 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 45.00 Mbit/s
95th percentile per-packet one-way delay: 92.840 ms
Loss rate: 1.91%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 11:22:34

End at: 2018-04-10 11:23:04

Local clock offset: 5.369 ms

Remote clock offset: 9.17 ms

Below is generated by plot.py at 2018-04-10 17:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 99.196 ms

Loss rate: 3.13%

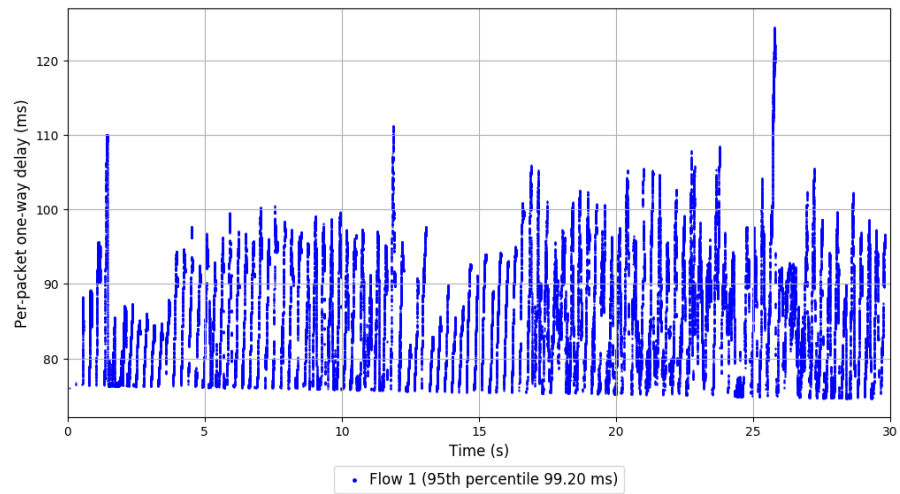
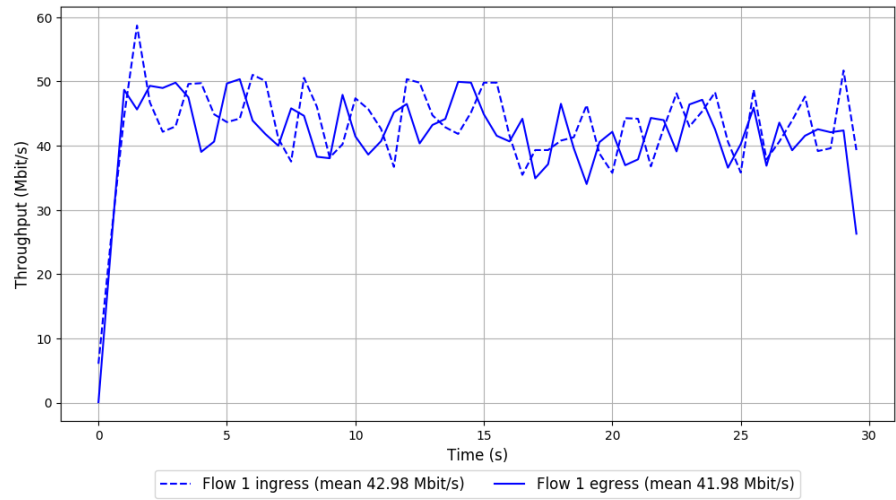
-- Flow 1:

Average throughput: 41.98 Mbit/s

95th percentile per-packet one-way delay: 99.196 ms

Loss rate: 3.13%

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

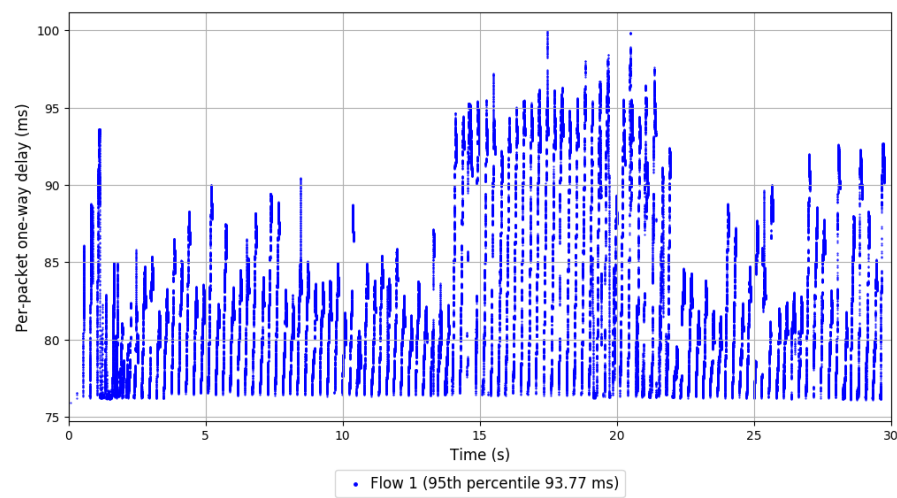
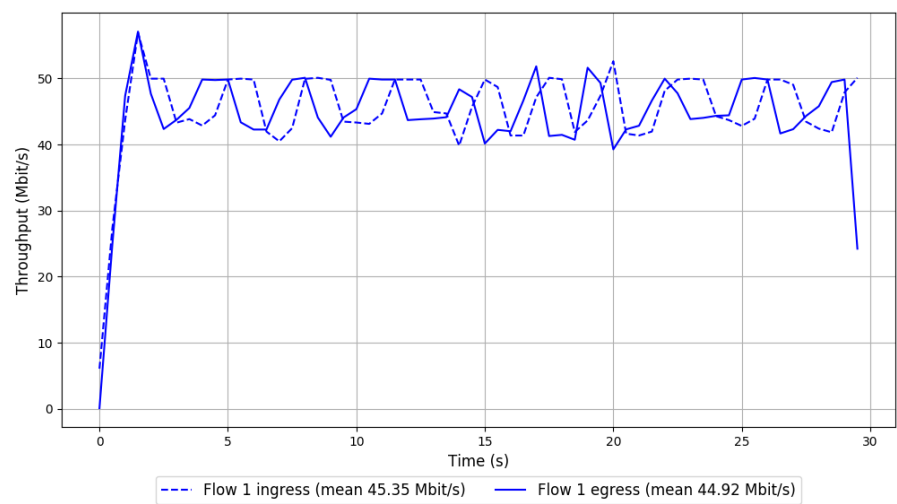


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 11:47:24
End at: 2018-04-10 11:47:54
Local clock offset: 35.635 ms
Remote clock offset: -2.486 ms

Below is generated by plot.py at 2018-04-10 17:22:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.92 Mbit/s
95th percentile per-packet one-way delay: 93.768 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 44.92 Mbit/s
95th percentile per-packet one-way delay: 93.768 ms
Loss rate: 1.82%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 12:12:06

End at: 2018-04-10 12:12:36

Local clock offset: 47.039 ms

Remote clock offset: 5.392 ms

Below is generated by plot.py at 2018-04-10 17:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 88.597 ms

Loss rate: 1.33%

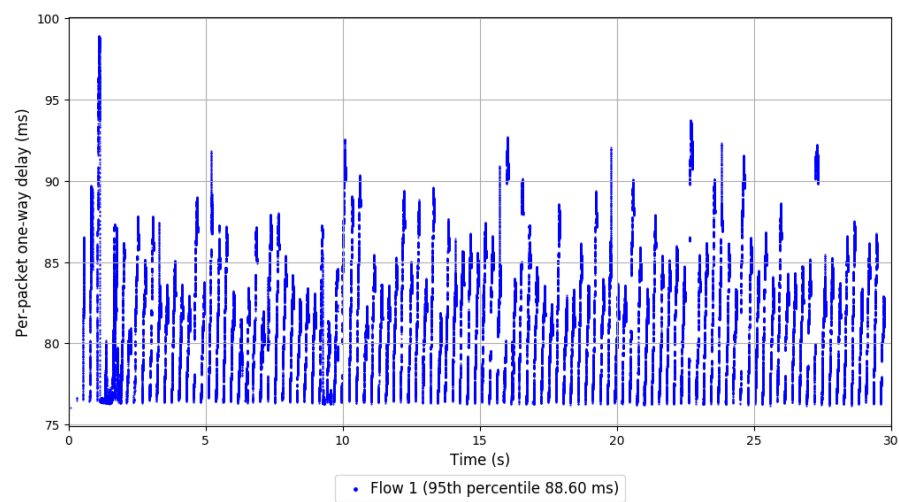
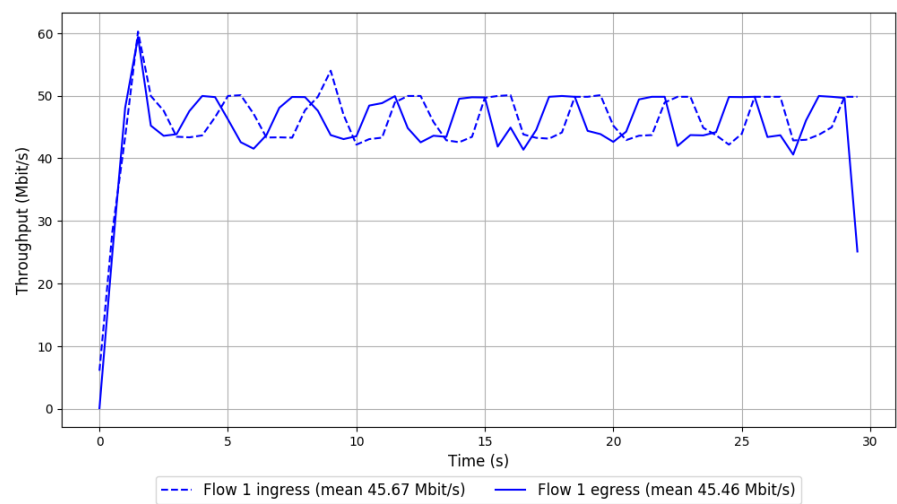
-- Flow 1:

Average throughput: 45.46 Mbit/s

95th percentile per-packet one-way delay: 88.597 ms

Loss rate: 1.33%

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

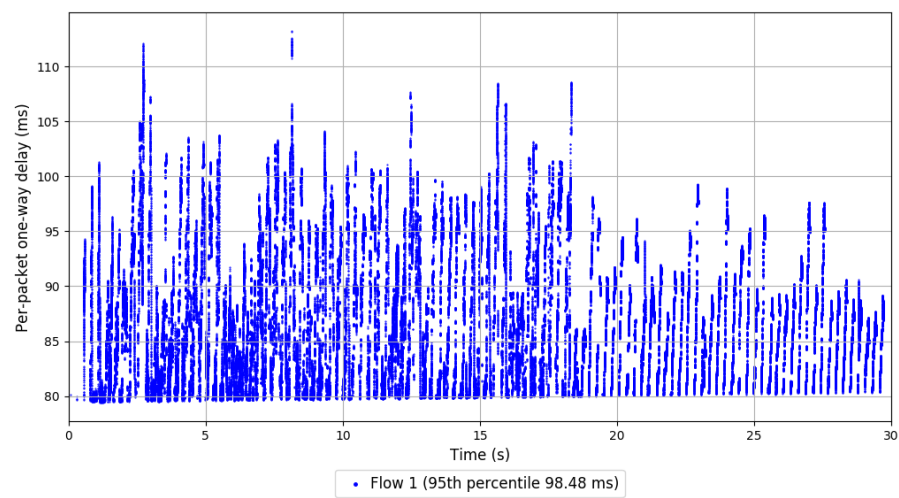
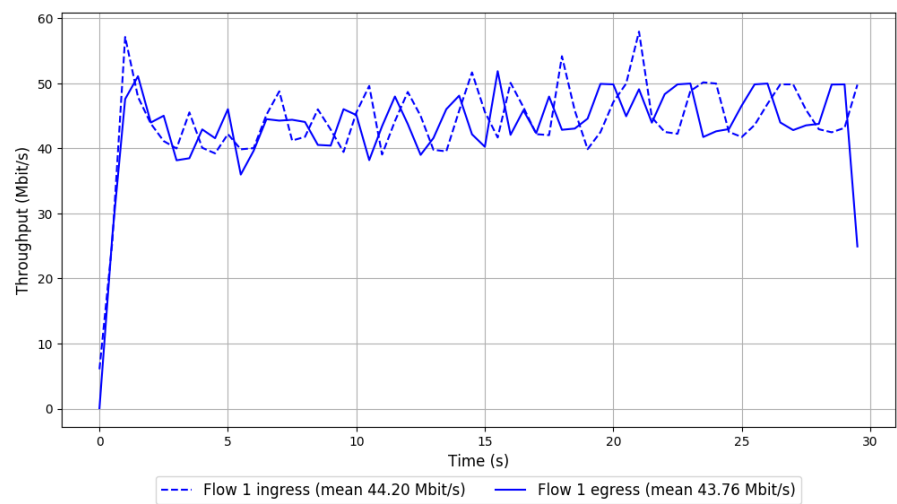


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 12:36:42
End at: 2018-04-10 12:37:12
Local clock offset: 38.911 ms
Remote clock offset: 14.899 ms

Below is generated by plot.py at 2018-04-10 17:22:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.76 Mbit/s
95th percentile per-packet one-way delay: 98.484 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 43.76 Mbit/s
95th percentile per-packet one-way delay: 98.484 ms
Loss rate: 1.87%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-10 13:01:34

End at: 2018-04-10 13:02:04

Local clock offset: 24.924 ms

Remote clock offset: 12.898 ms

Below is generated by plot.py at 2018-04-10 17:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 93.873 ms

Loss rate: 1.95%

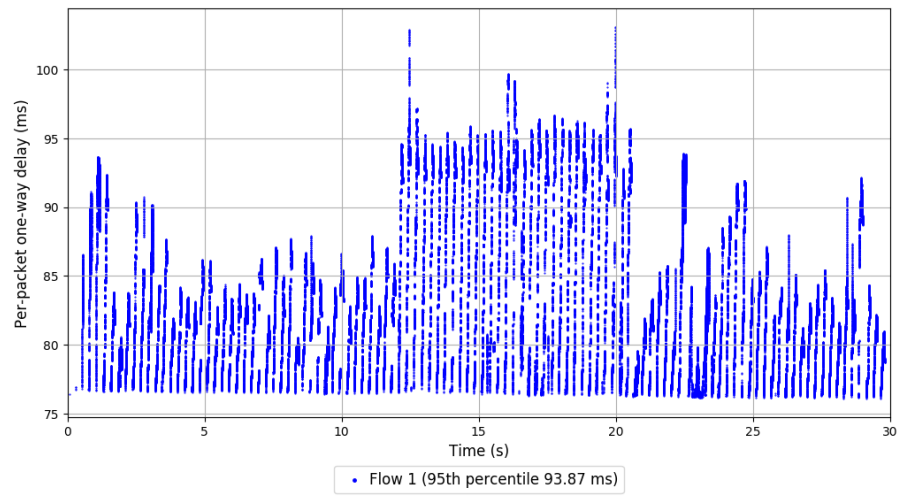
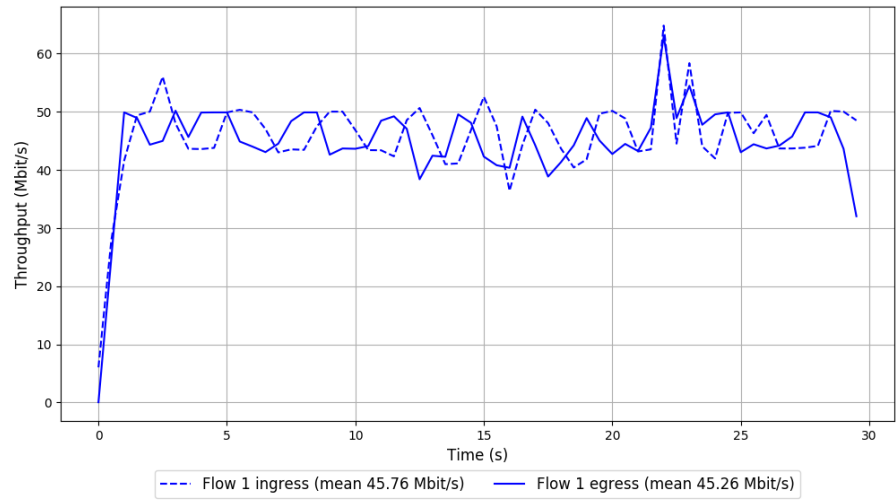
-- Flow 1:

Average throughput: 45.26 Mbit/s

95th percentile per-packet one-way delay: 93.873 ms

Loss rate: 1.95%

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

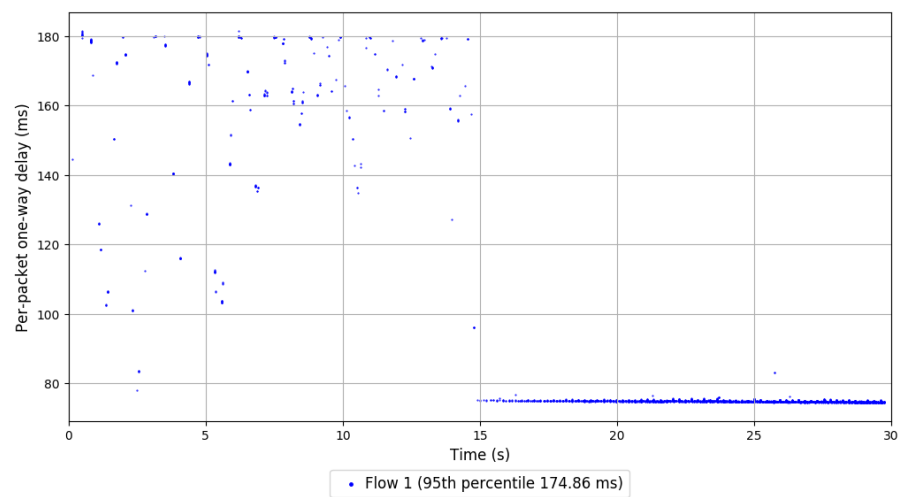
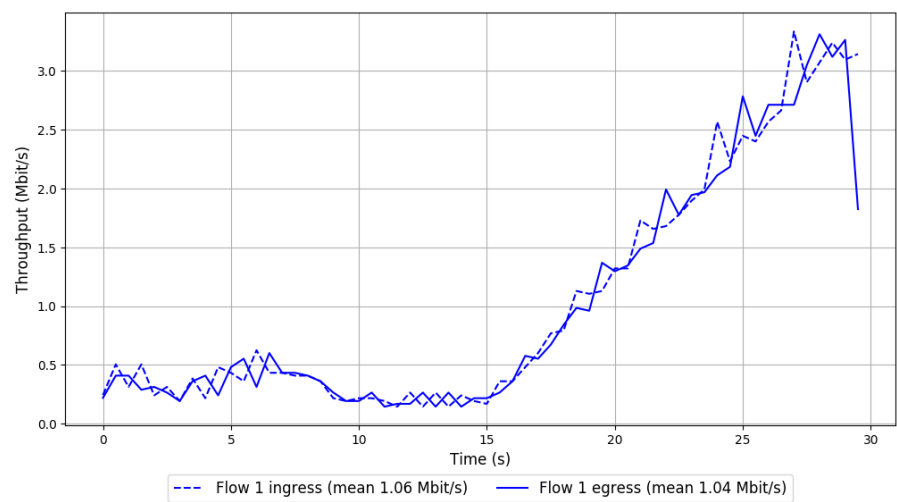


Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 09:01:00
End at: 2018-04-10 09:01:30
Local clock offset: 2.113 ms
Remote clock offset: 21.608 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 174.861 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 174.861 ms
Loss rate: 2.73%

Run 1: Report of TCP Vegas — Data Link

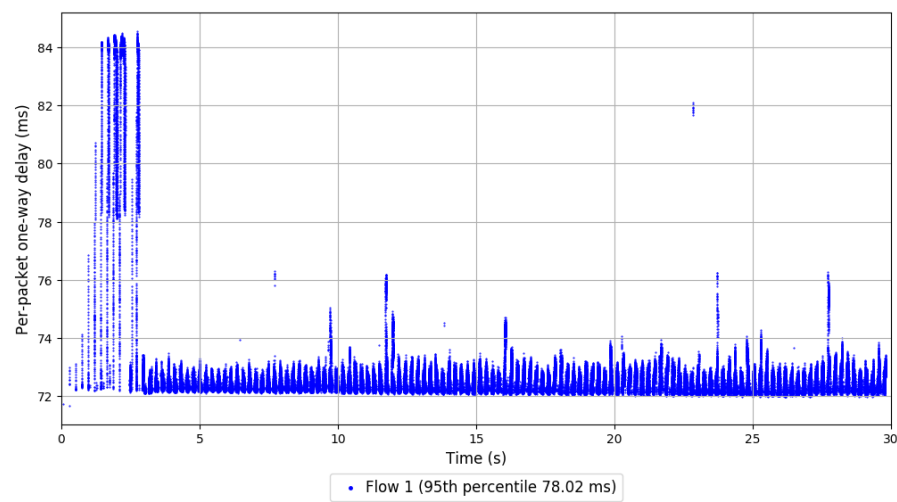
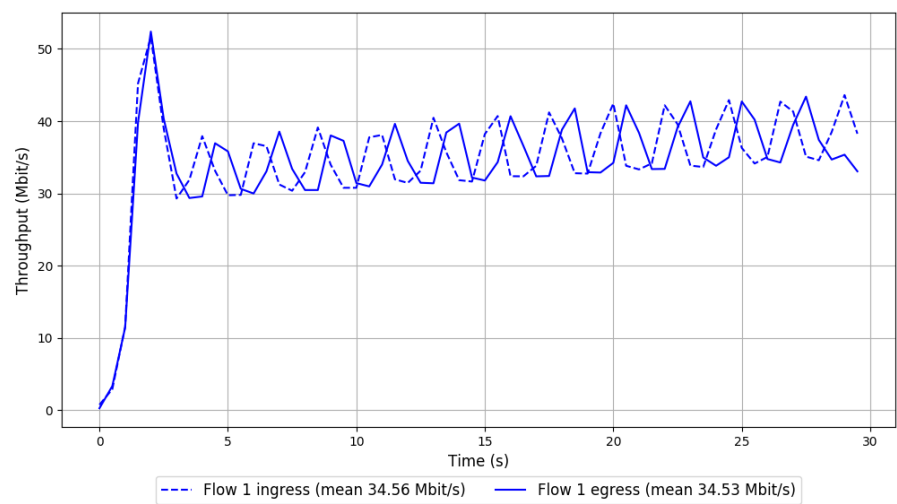


Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 09:27:55
End at: 2018-04-10 09:28:25
Local clock offset: 2.343 ms
Remote clock offset: -7.192 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 34.53 Mbit/s
95th percentile per-packet one-way delay: 78.016 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 34.53 Mbit/s
95th percentile per-packet one-way delay: 78.016 ms
Loss rate: 0.84%

Run 2: Report of TCP Vegas — Data Link

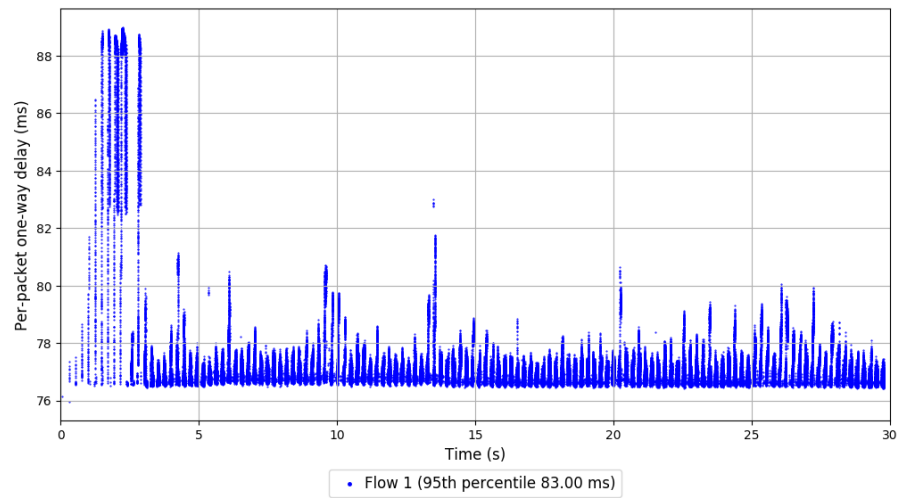
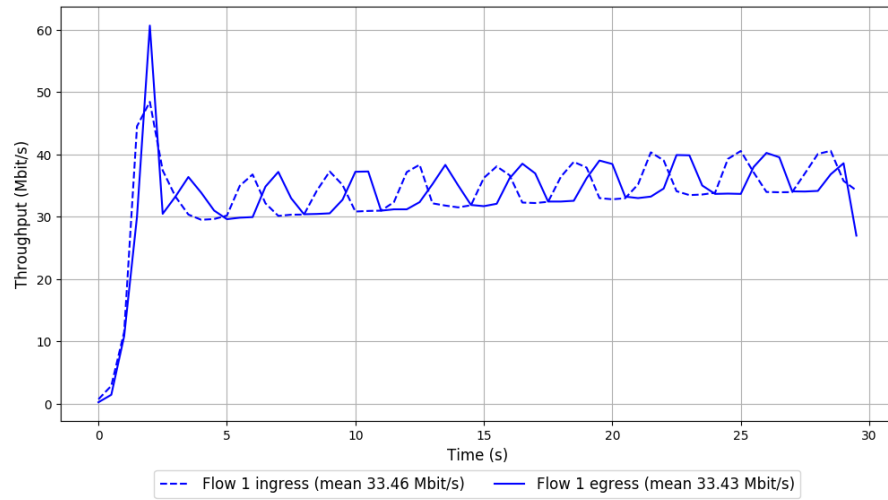


Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 09:52:18
End at: 2018-04-10 09:52:48
Local clock offset: 1.384 ms
Remote clock offset: -6.026 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.43 Mbit/s
95th percentile per-packet one-way delay: 82.997 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 33.43 Mbit/s
95th percentile per-packet one-way delay: 82.997 ms
Loss rate: 0.86%

Run 3: Report of TCP Vegas — Data Link

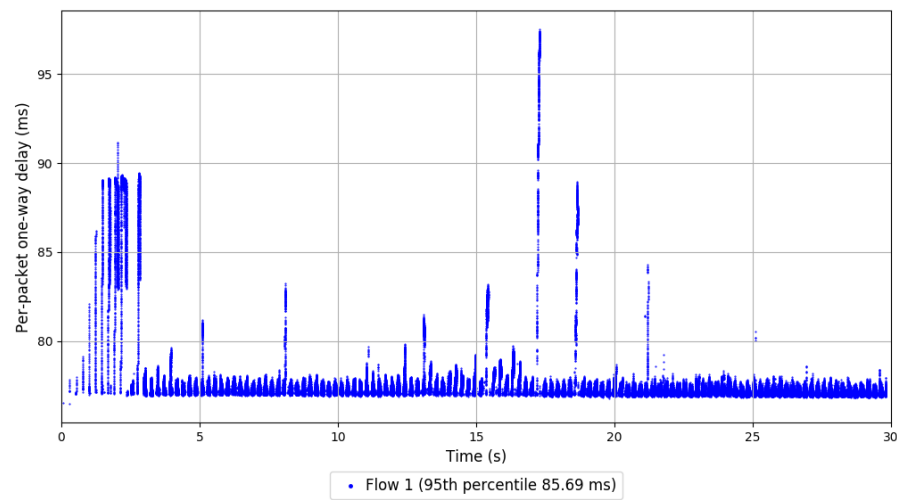
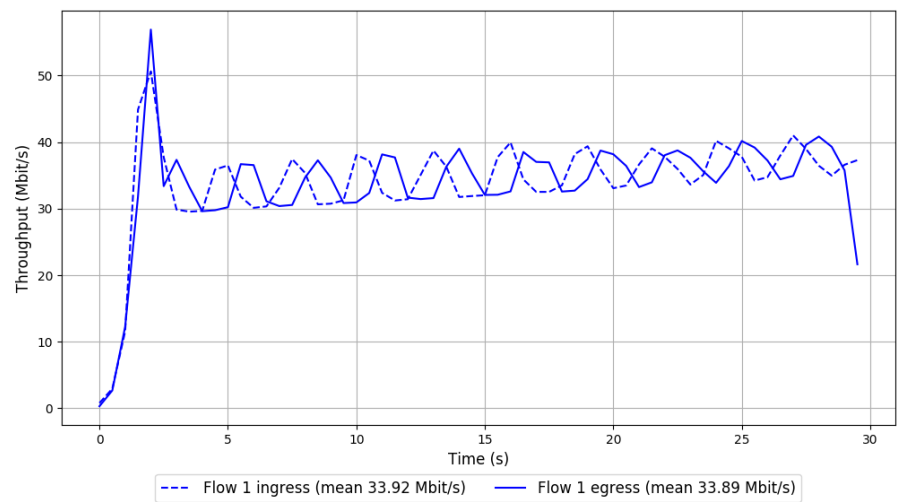


Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 10:17:53
End at: 2018-04-10 10:18:23
Local clock offset: 1.587 ms
Remote clock offset: -10.522 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: 85.686 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 33.89 Mbit/s
95th percentile per-packet one-way delay: 85.686 ms
Loss rate: 0.86%

Run 4: Report of TCP Vegas — Data Link

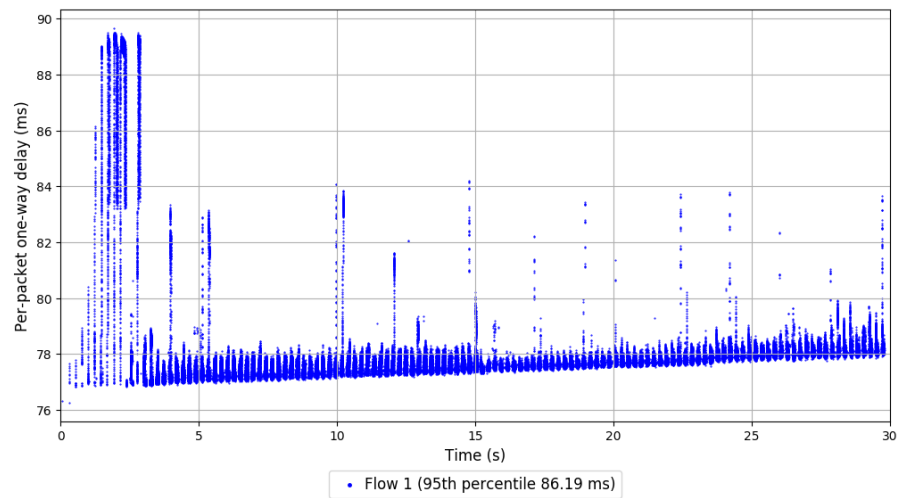
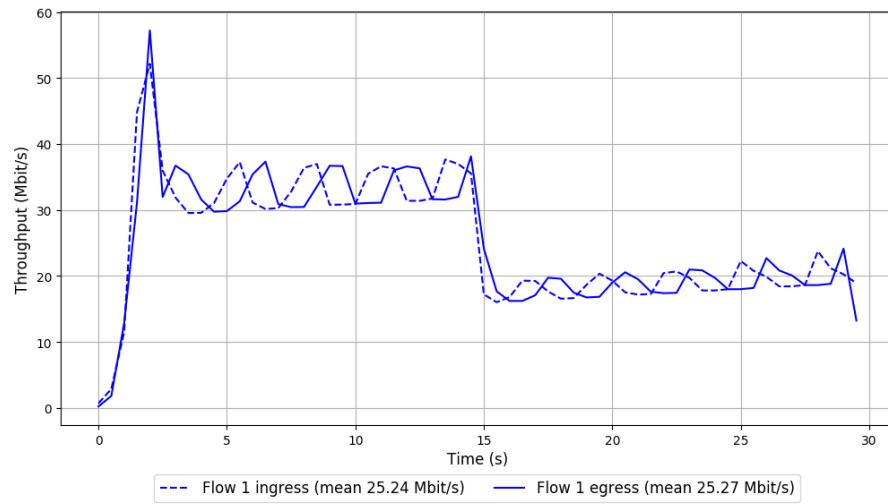


Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 10:45:06
End at: 2018-04-10 10:45:36
Local clock offset: 2.133 ms
Remote clock offset: -2.223 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 86.193 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 86.193 ms
Loss rate: 0.63%

Run 5: Report of TCP Vegas — Data Link

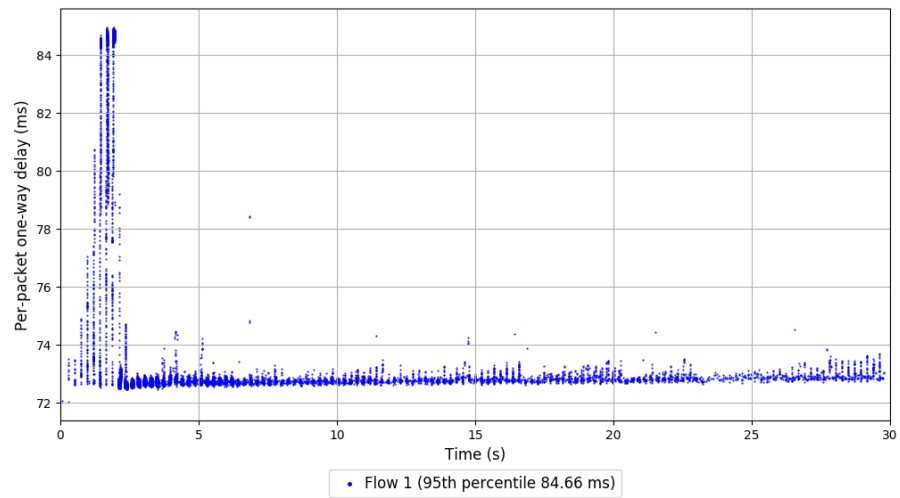
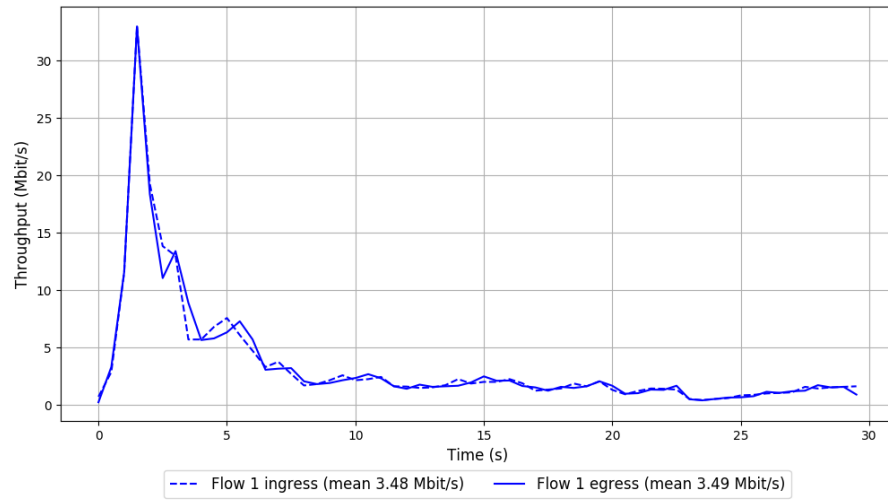


Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 11:09:47
End at: 2018-04-10 11:10:17
Local clock offset: 1.96 ms
Remote clock offset: 20.798 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 84.662 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 84.662 ms
Loss rate: 0.54%

Run 6: Report of TCP Vegas — Data Link

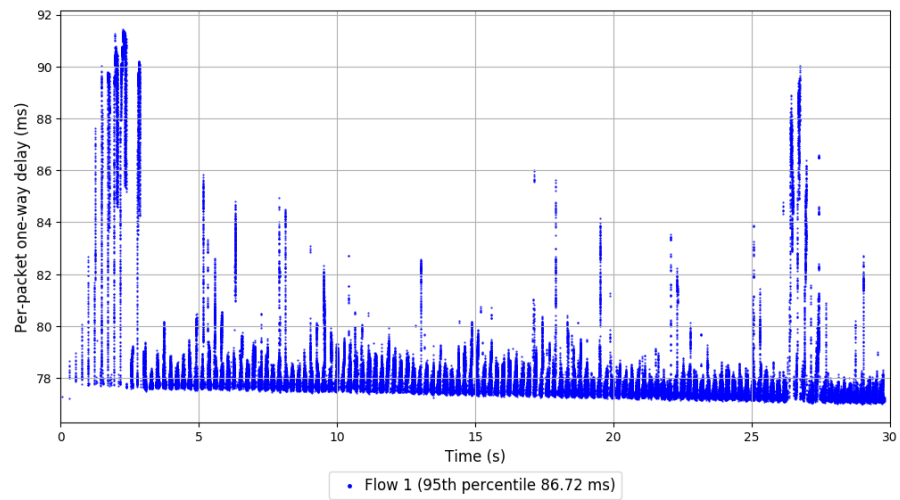
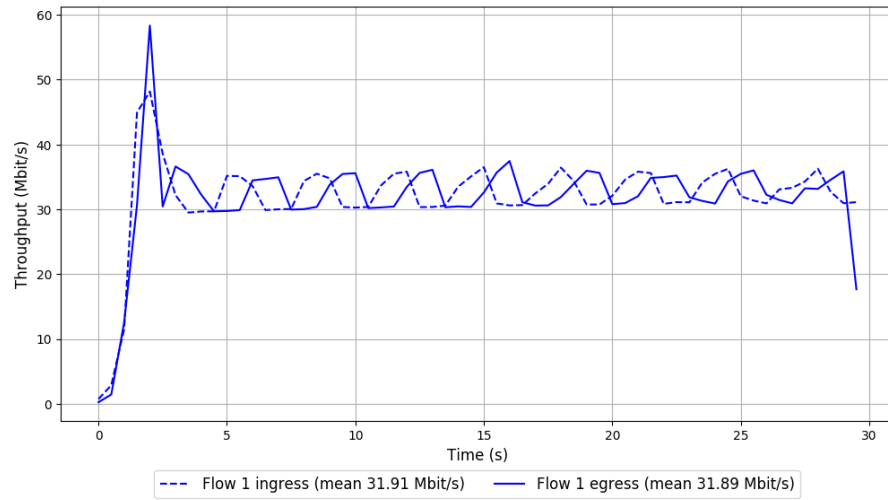


Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 11:34:45
End at: 2018-04-10 11:35:15
Local clock offset: 26.079 ms
Remote clock offset: 1.035 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 86.724 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 86.724 ms
Loss rate: 0.81%

Run 7: Report of TCP Vegas — Data Link

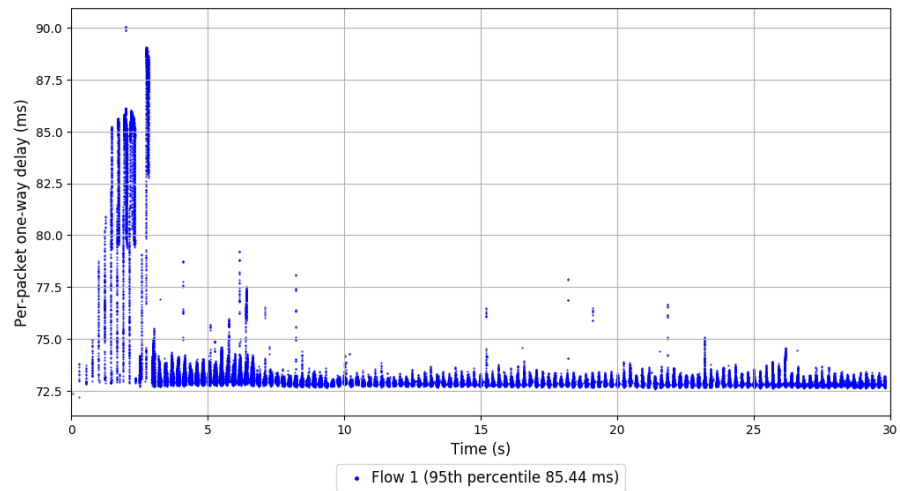
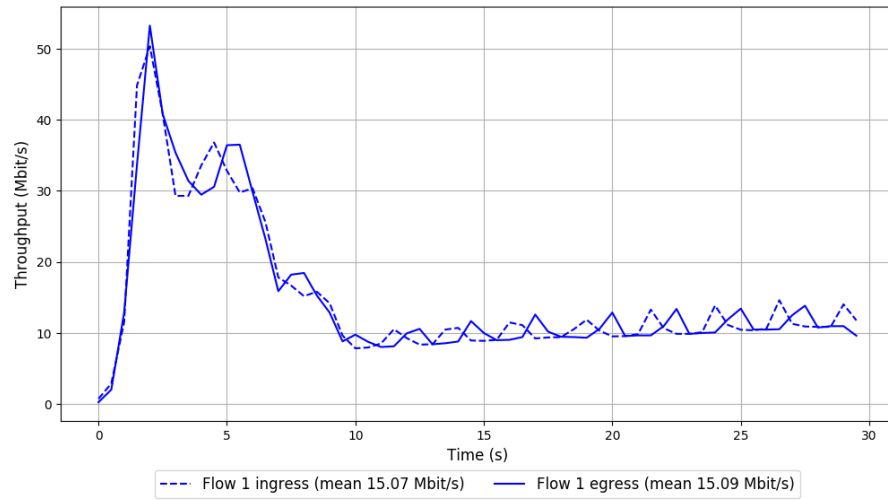


Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 11:59:39
End at: 2018-04-10 12:00:09
Local clock offset: 41.442 ms
Remote clock offset: 3.61 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 85.440 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 85.440 ms
Loss rate: 0.61%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 12:24:02

End at: 2018-04-10 12:24:32

Local clock offset: 52.137 ms

Remote clock offset: 6.818 ms

Below is generated by plot.py at 2018-04-10 17:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 75.471 ms

Loss rate: 0.74%

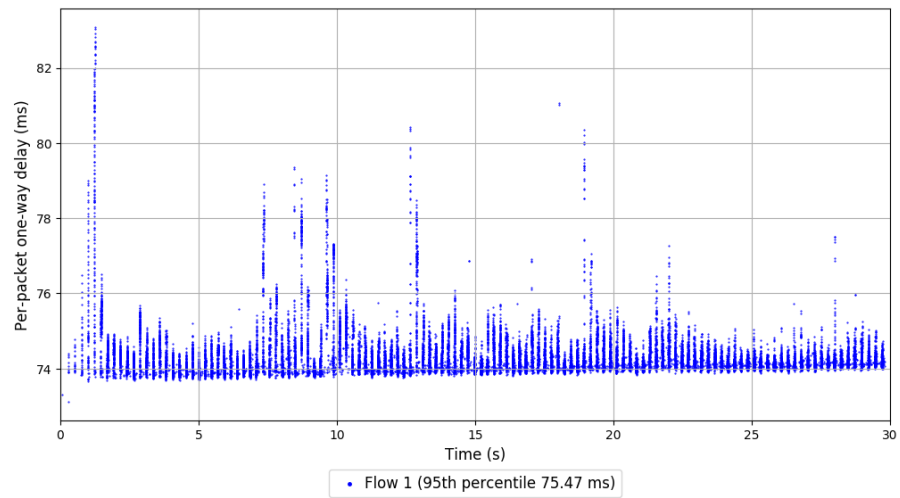
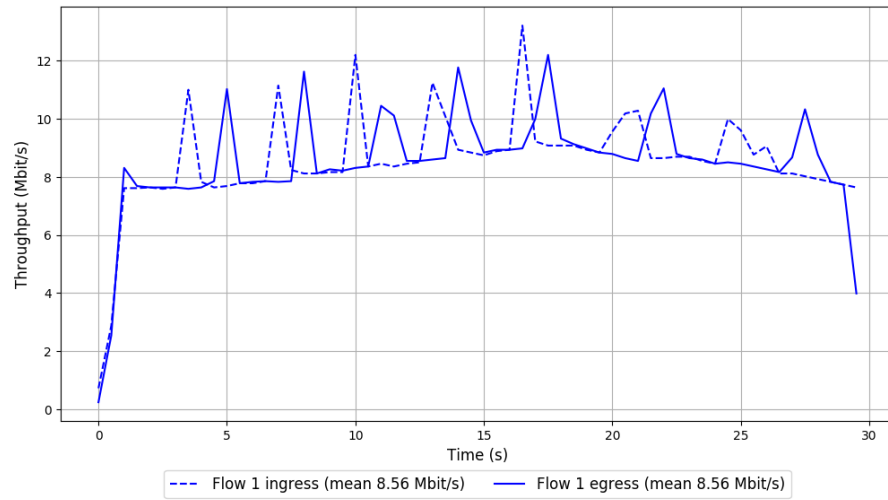
-- Flow 1:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 75.471 ms

Loss rate: 0.74%

Run 9: Report of TCP Vegas — Data Link

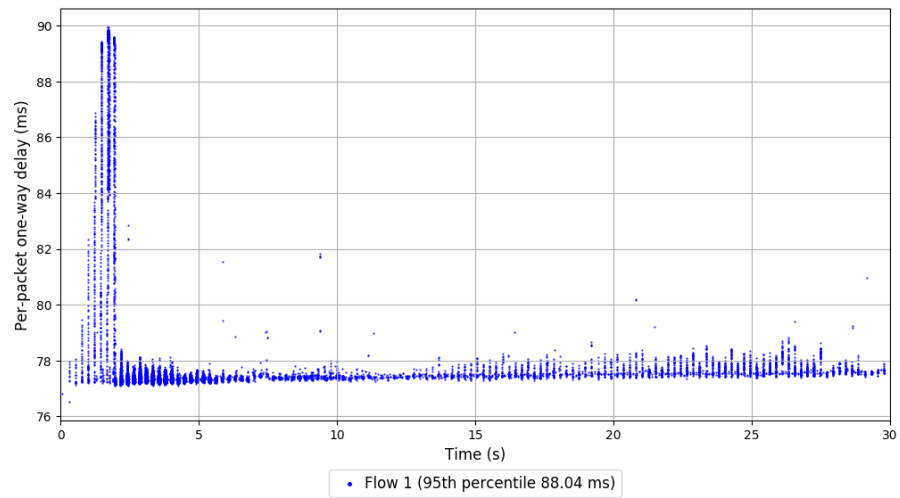
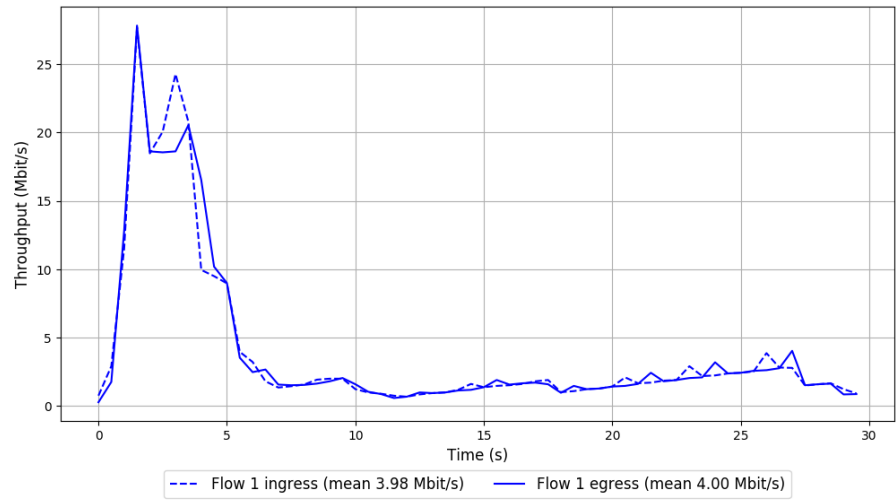


Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 12:48:56
End at: 2018-04-10 12:49:26
Local clock offset: 28.402 ms
Remote clock offset: 18.284 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 88.043 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 88.043 ms
Loss rate: 0.30%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 09:08:50

End at: 2018-04-10 09:09:20

Local clock offset: 2.133 ms

Remote clock offset: 5.916 ms

Below is generated by plot.py at 2018-04-10 17:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.33 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 1.77%

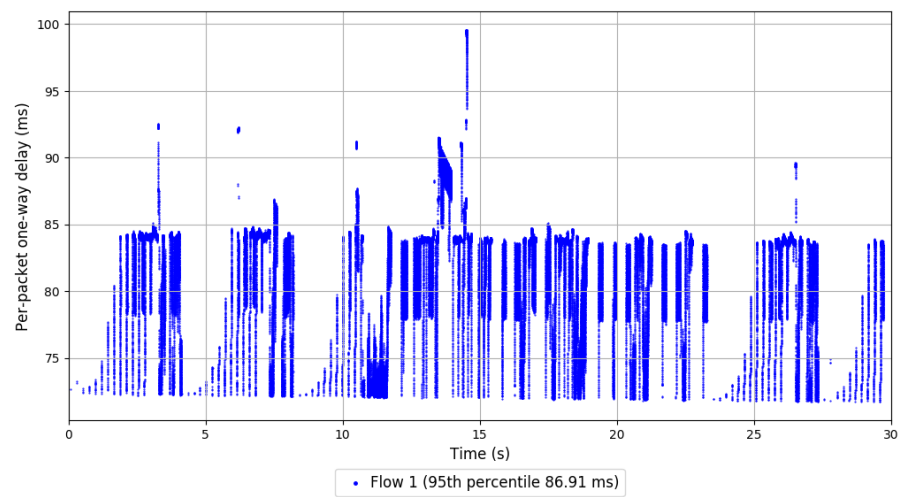
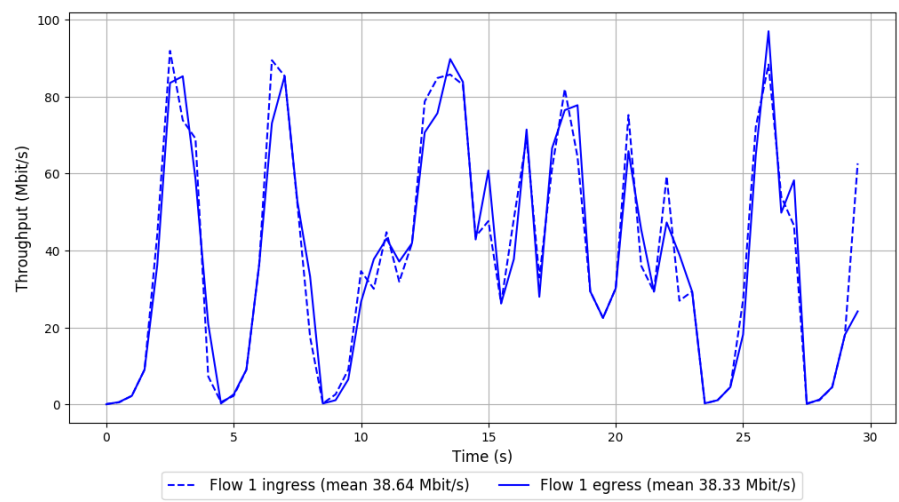
-- Flow 1:

Average throughput: 38.33 Mbit/s

95th percentile per-packet one-way delay: 86.913 ms

Loss rate: 1.77%

Run 1: Report of Verus — Data Link

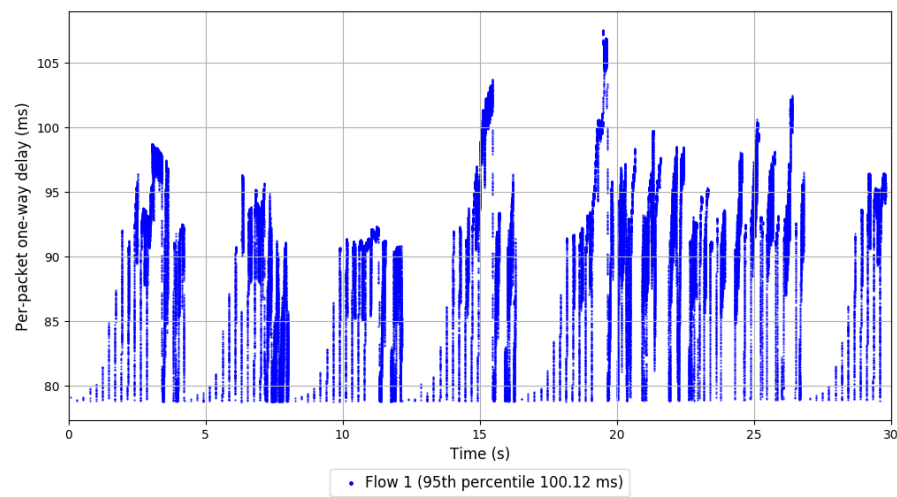
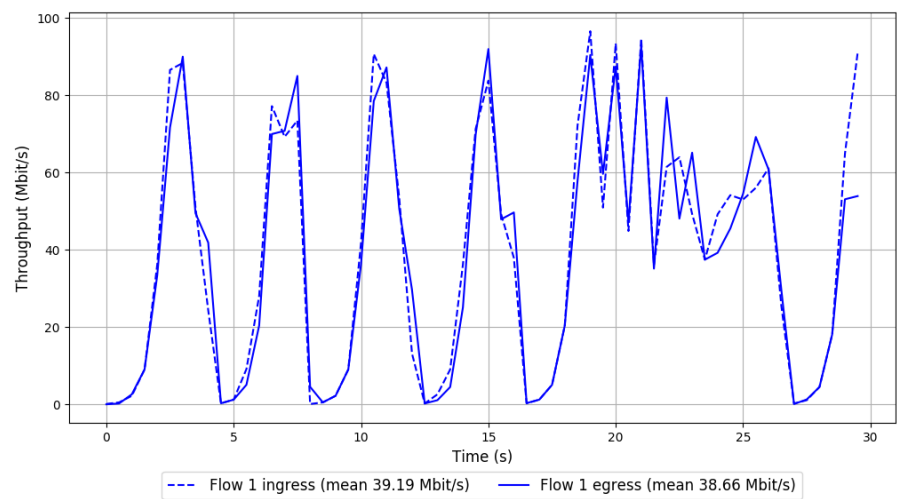


Run 2: Statistics of Verus

Start at: 2018-04-10 09:34:48
End at: 2018-04-10 09:35:18
Local clock offset: 2.637 ms
Remote clock offset: -5.985 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 100.116 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 38.66 Mbit/s
95th percentile per-packet one-way delay: 100.116 ms
Loss rate: 2.14%

Run 2: Report of Verus — Data Link

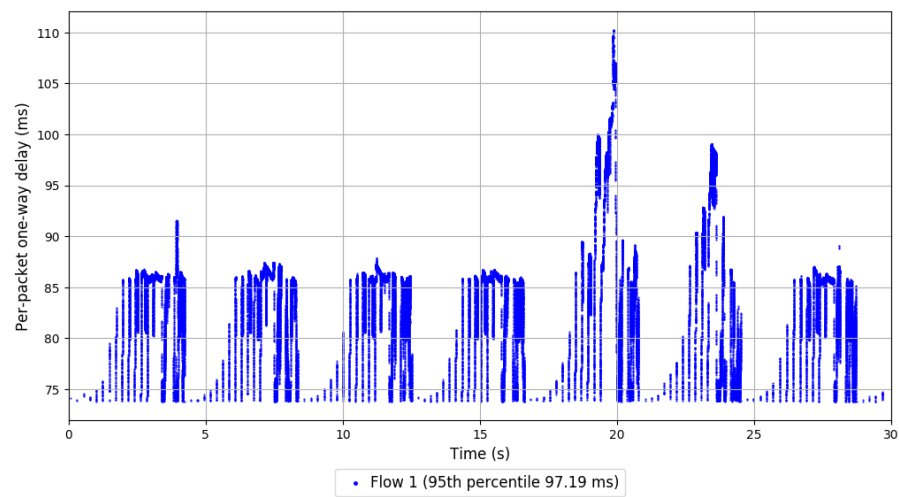
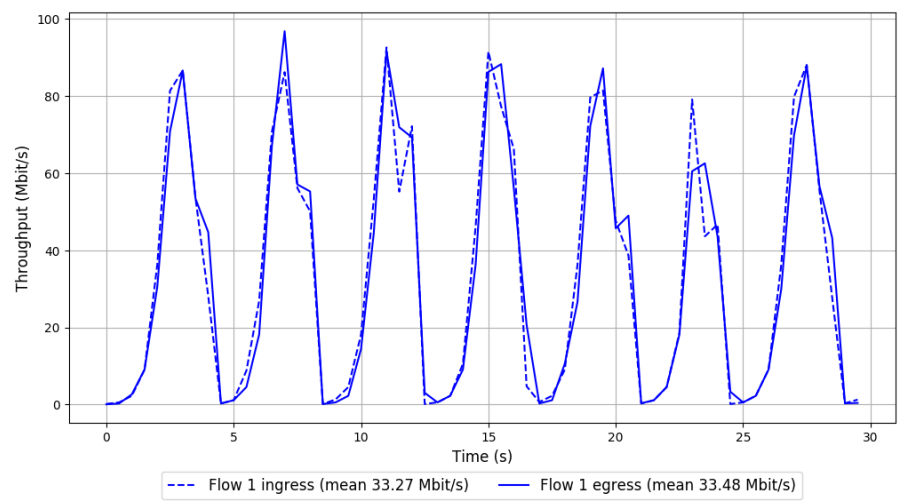


Run 3: Statistics of Verus

Start at: 2018-04-10 09:59:09
End at: 2018-04-10 09:59:39
Local clock offset: 1.263 ms
Remote clock offset: -7.057 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 97.194 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 33.48 Mbit/s
95th percentile per-packet one-way delay: 97.194 ms
Loss rate: 0.20%

Run 3: Report of Verus — Data Link

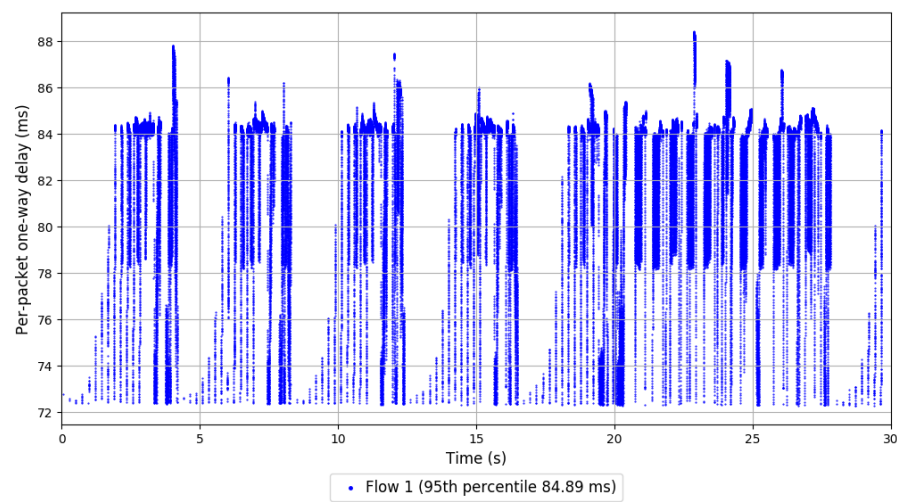
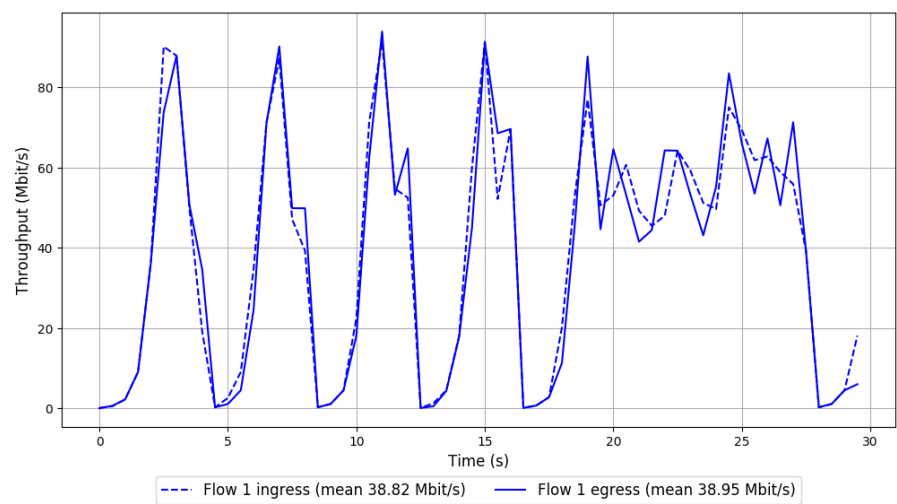


Run 4: Statistics of Verus

Start at: 2018-04-10 10:24:58
End at: 2018-04-10 10:25:28
Local clock offset: 1.929 ms
Remote clock offset: -11.823 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 84.891 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 84.891 ms
Loss rate: 0.52%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 10:51:53

End at: 2018-04-10 10:52:23

Local clock offset: 1.963 ms

Remote clock offset: 8.677 ms

Below is generated by plot.py at 2018-04-10 17:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 86.995 ms

Loss rate: 0.08%

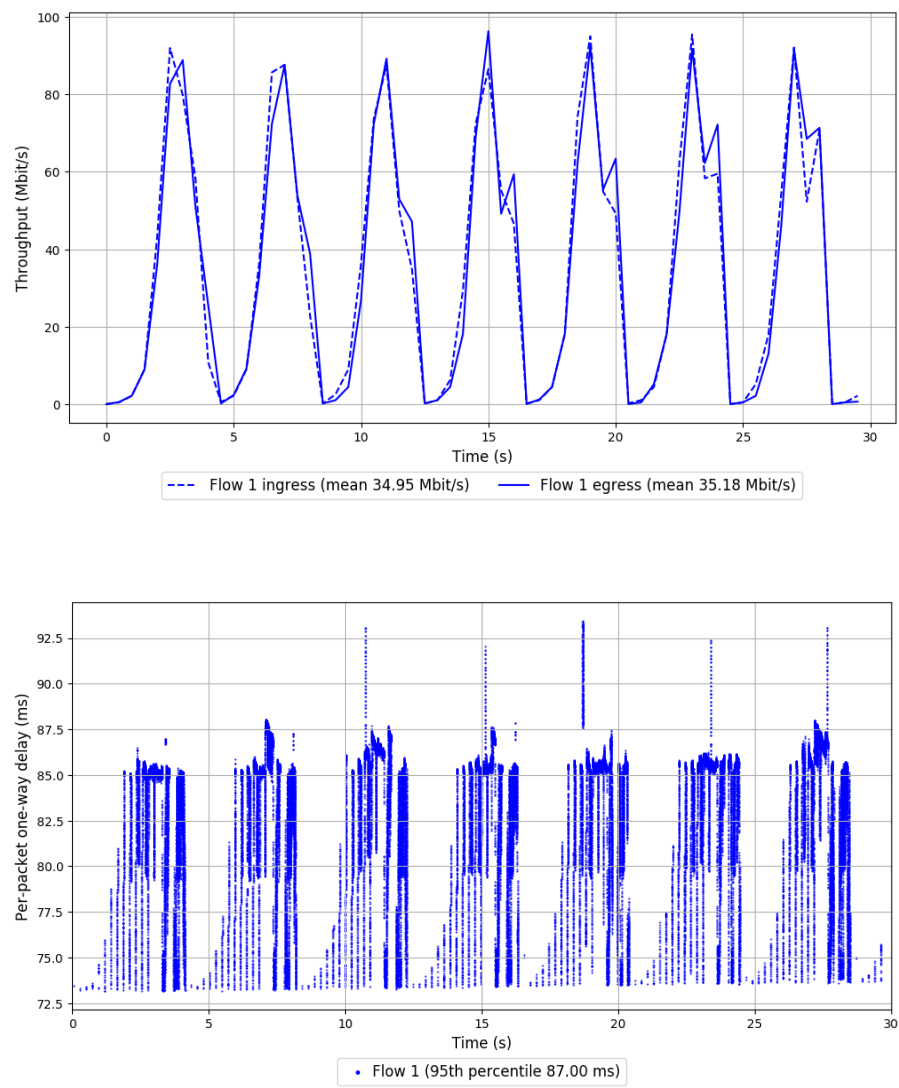
-- Flow 1:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 86.995 ms

Loss rate: 0.08%

Run 5: Report of Verus — Data Link

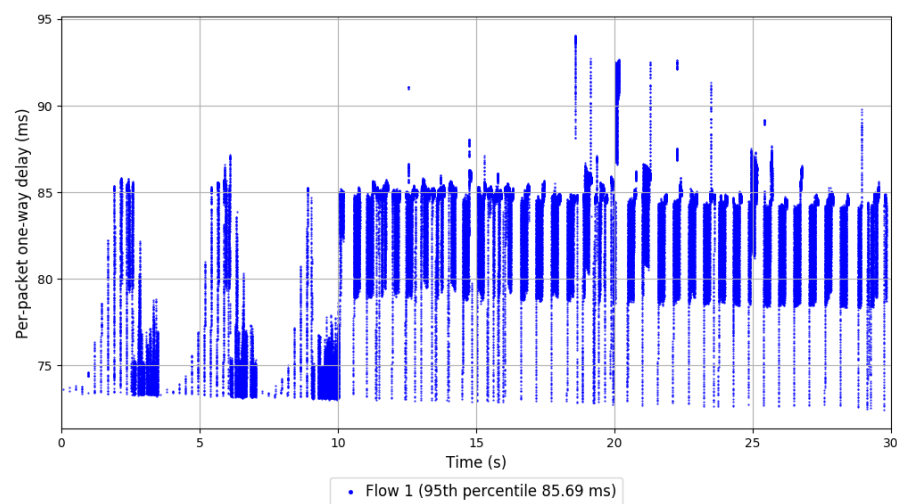
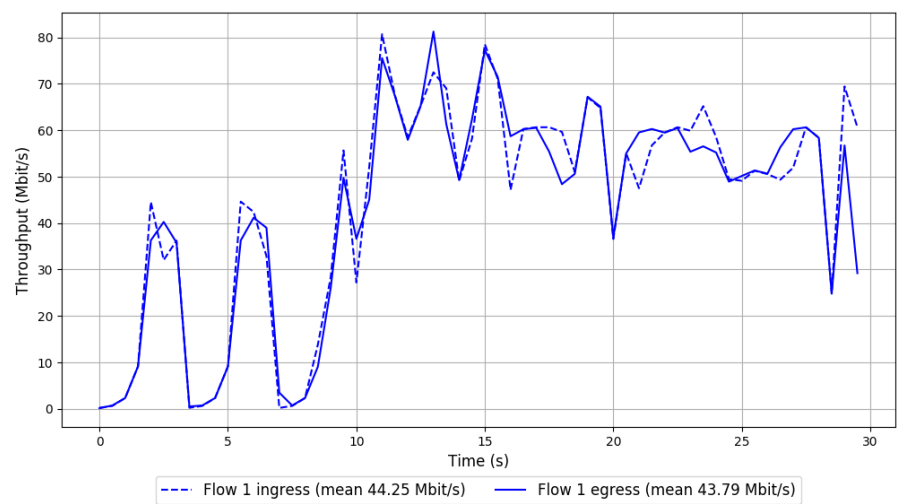


Run 6: Statistics of Verus

Start at: 2018-04-10 11:16:45
End at: 2018-04-10 11:17:16
Local clock offset: 1.926 ms
Remote clock offset: 18.682 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.79 Mbit/s
95th percentile per-packet one-way delay: 85.695 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 43.79 Mbit/s
95th percentile per-packet one-way delay: 85.695 ms
Loss rate: 1.75%

Run 6: Report of Verus — Data Link

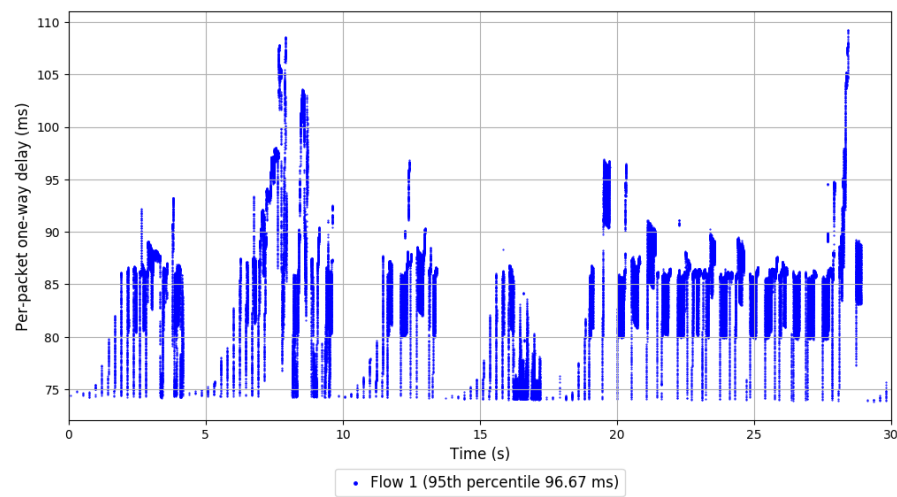
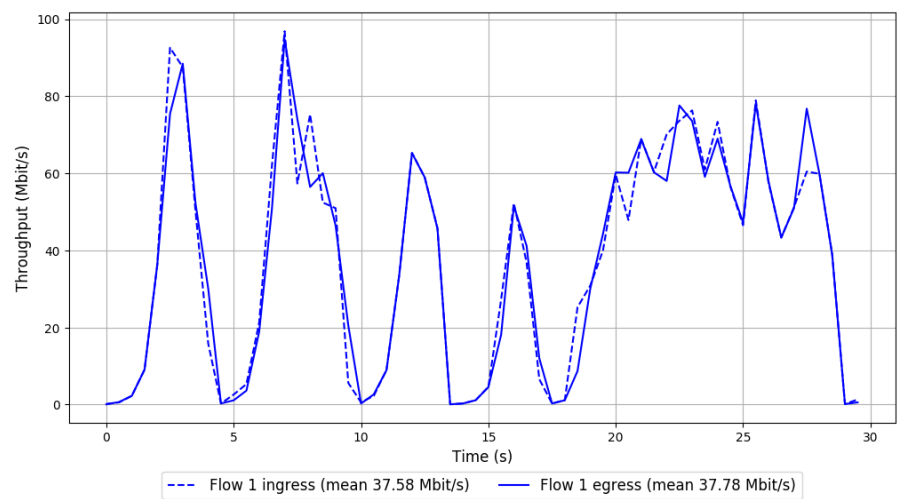


Run 7: Statistics of Verus

Start at: 2018-04-10 11:41:34
End at: 2018-04-10 11:42:04
Local clock offset: 31.916 ms
Remote clock offset: -1.157 ms

Below is generated by plot.py at 2018-04-10 17:24:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 96.672 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 96.672 ms
Loss rate: 0.23%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-10 12:06:28

End at: 2018-04-10 12:06:58

Local clock offset: 44.628 ms

Remote clock offset: 4.953 ms

Below is generated by plot.py at 2018-04-10 17:24:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 88.839 ms

Loss rate: 0.17%

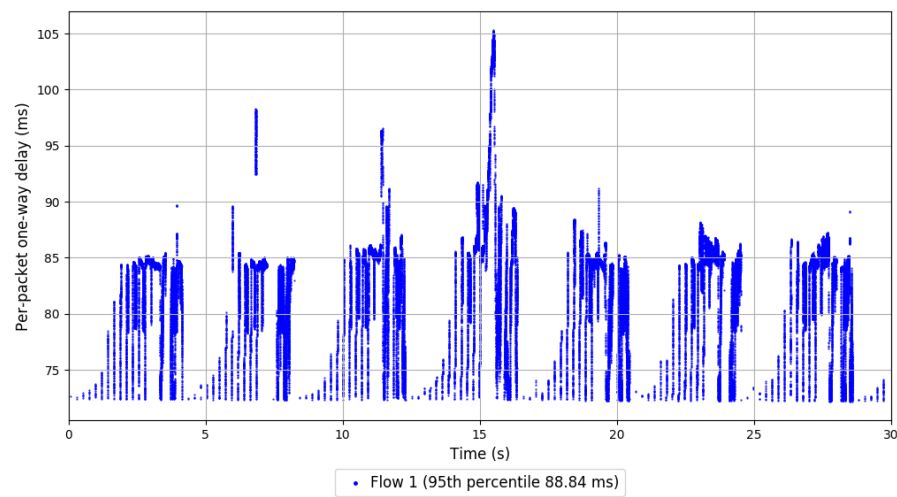
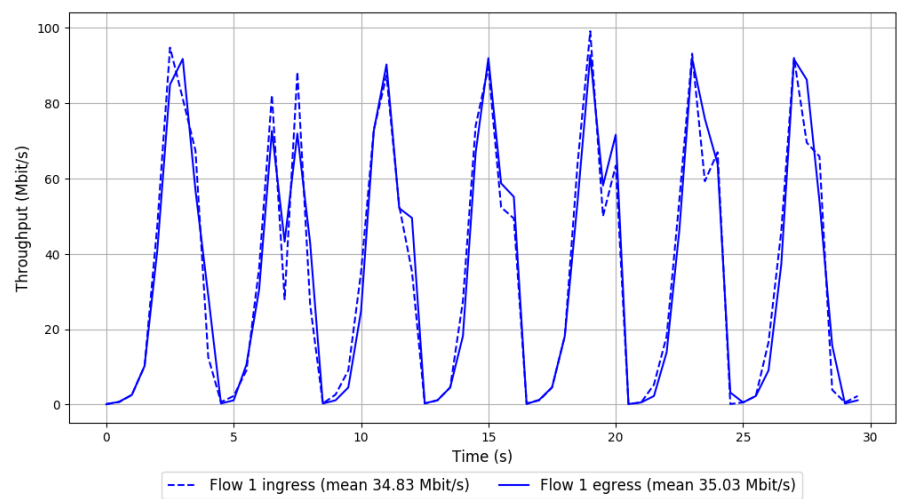
-- Flow 1:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 88.839 ms

Loss rate: 0.17%

Run 8: Report of Verus — Data Link

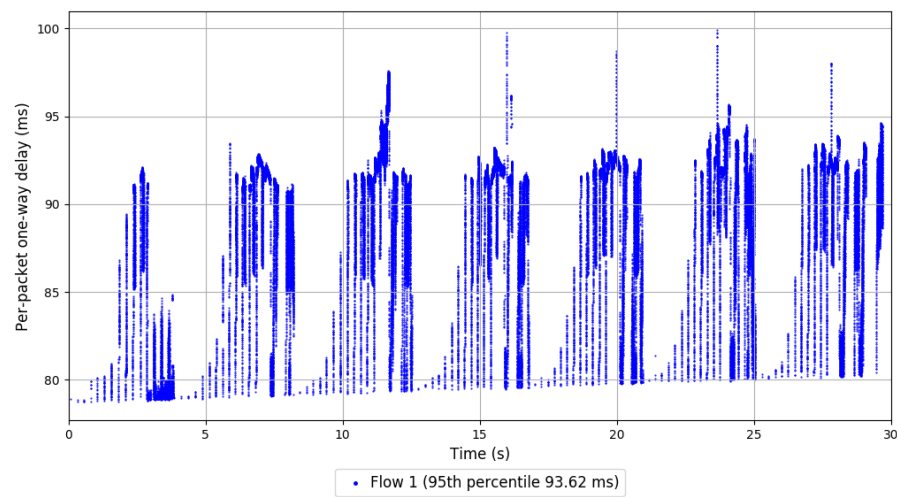
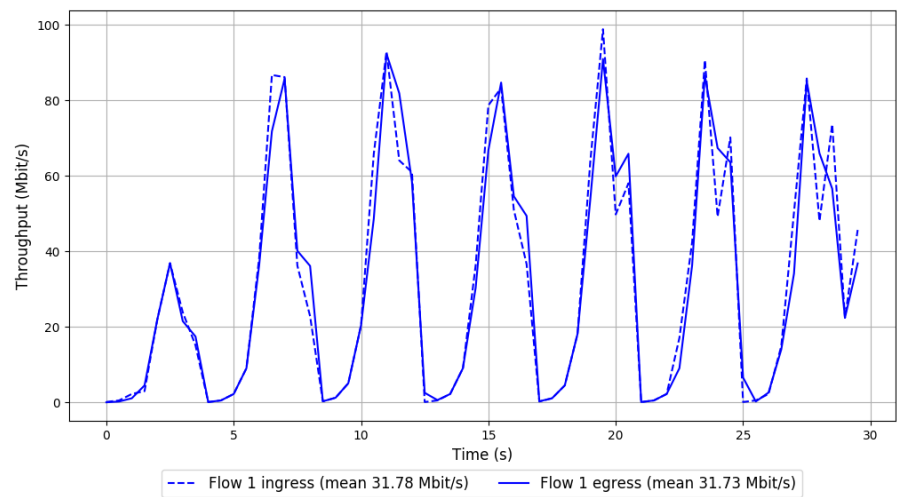


Run 9: Statistics of Verus

Start at: 2018-04-10 12:31:04
End at: 2018-04-10 12:31:34
Local clock offset: 51.09 ms
Remote clock offset: 12.227 ms

Below is generated by plot.py at 2018-04-10 17:24:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 93.617 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 31.73 Mbit/s
95th percentile per-packet one-way delay: 93.617 ms
Loss rate: 1.36%

Run 9: Report of Verus — Data Link

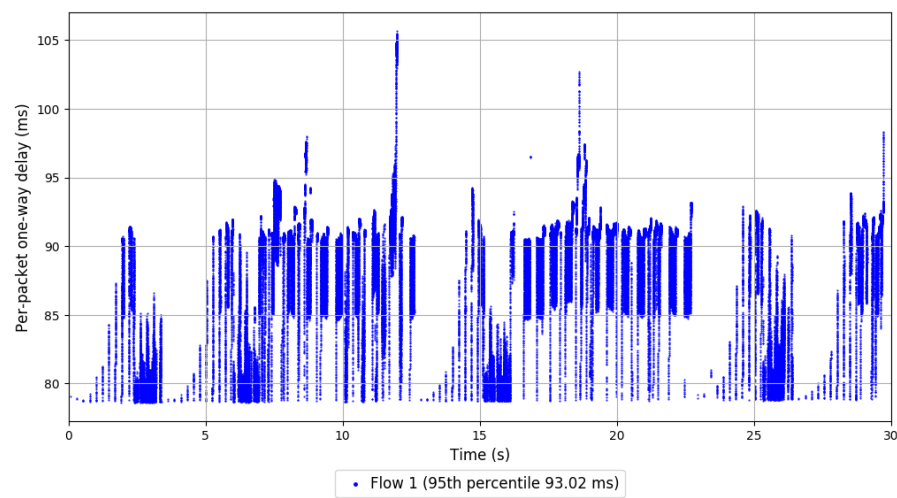
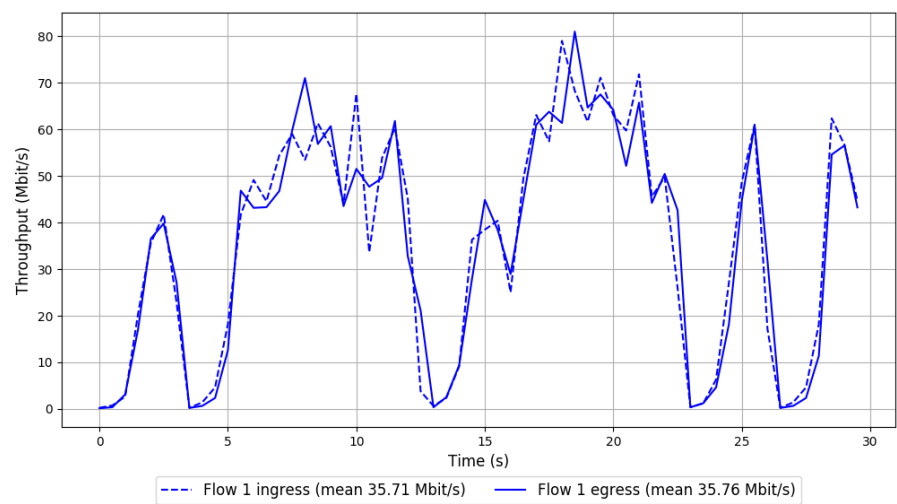


Run 10: Statistics of Verus

Start at: 2018-04-10 12:56:07
End at: 2018-04-10 12:56:37
Local clock offset: 25.902 ms
Remote clock offset: 19.926 ms

Below is generated by plot.py at 2018-04-10 17:24:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 35.76 Mbit/s
95th percentile per-packet one-way delay: 93.016 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 35.76 Mbit/s
95th percentile per-packet one-way delay: 93.016 ms
Loss rate: 1.03%

Run 10: Report of Verus — Data Link

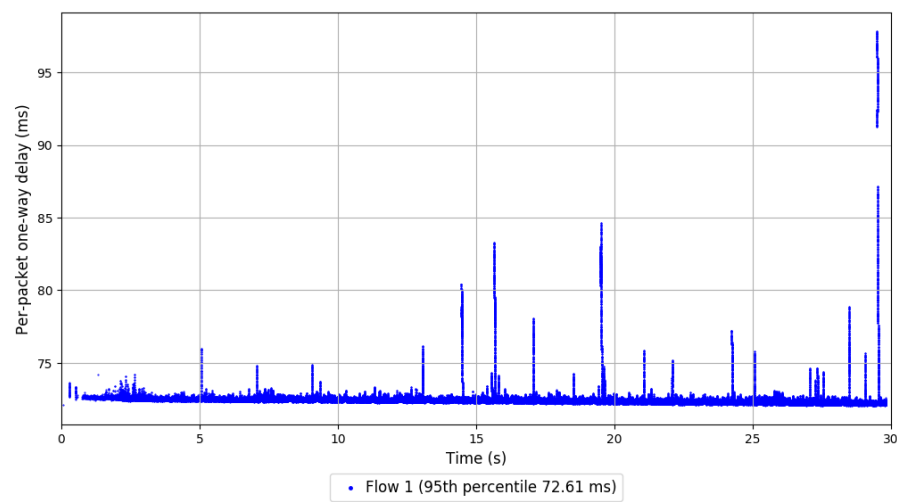
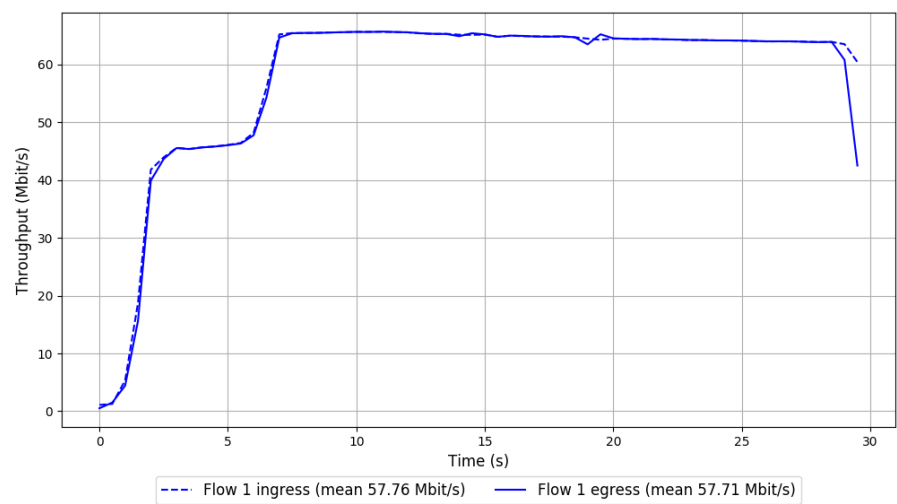


Run 1: Statistics of Copa

Start at: 2018-04-10 09:15:37
End at: 2018-04-10 09:16:07
Local clock offset: 2.341 ms
Remote clock offset: -0.673 ms

Below is generated by plot.py at 2018-04-10 17:25:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.71 Mbit/s
95th percentile per-packet one-way delay: 72.610 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 57.71 Mbit/s
95th percentile per-packet one-way delay: 72.610 ms
Loss rate: 0.86%

Run 1: Report of Copa — Data Link

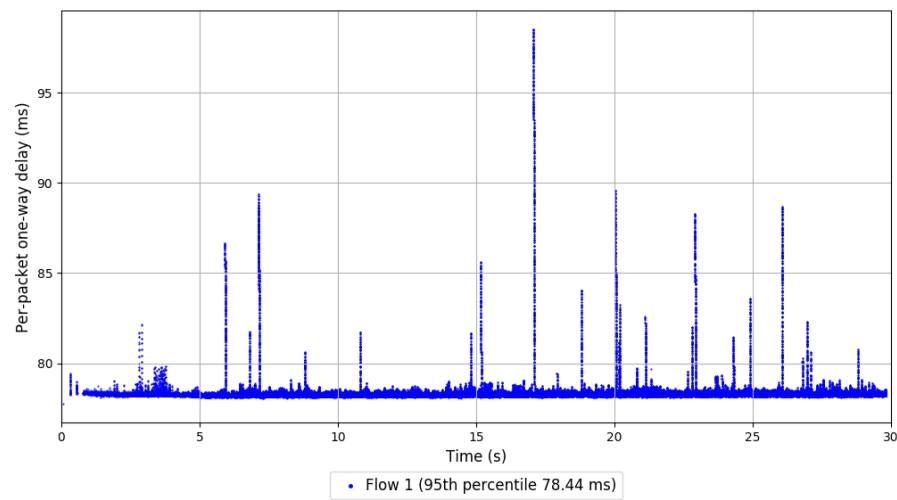
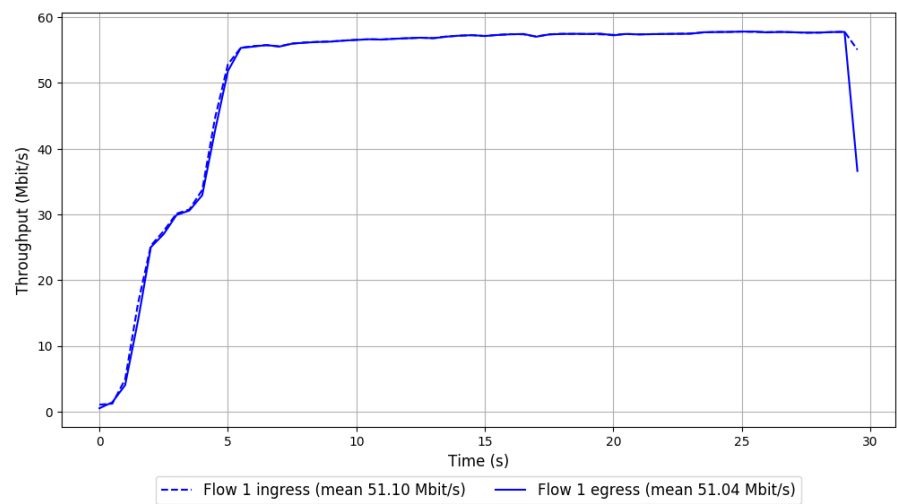


Run 2: Statistics of Copa

Start at: 2018-04-10 09:41:36
End at: 2018-04-10 09:42:06
Local clock offset: 2.159 ms
Remote clock offset: -5.181 ms

Below is generated by plot.py at 2018-04-10 17:25:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.04 Mbit/s
95th percentile per-packet one-way delay: 78.435 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 51.04 Mbit/s
95th percentile per-packet one-way delay: 78.435 ms
Loss rate: 0.90%

Run 2: Report of Copa — Data Link

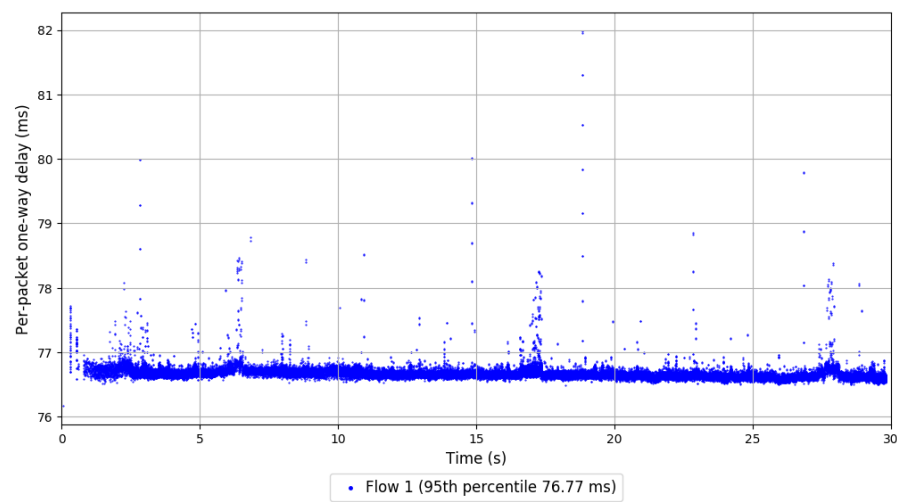
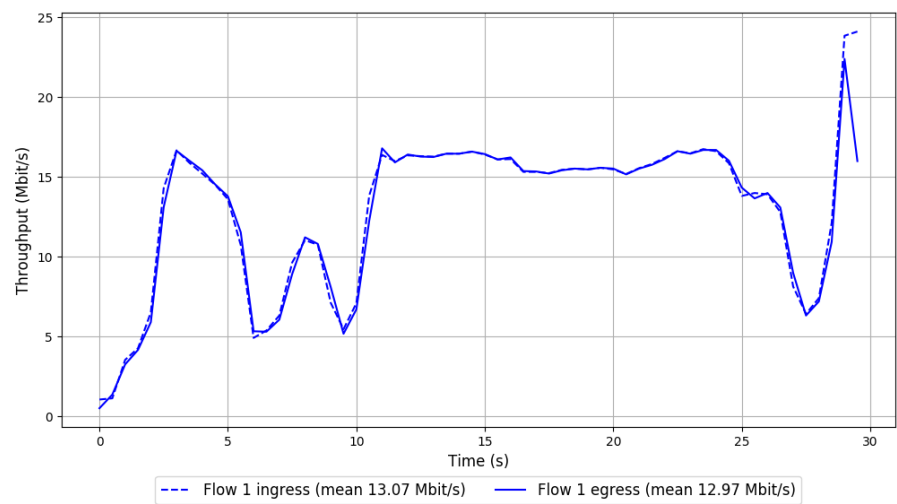


Run 3: Statistics of Copa

Start at: 2018-04-10 10:06:36
End at: 2018-04-10 10:07:06
Local clock offset: 1.181 ms
Remote clock offset: -8.245 ms

Below is generated by plot.py at 2018-04-10 17:25:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 76.767 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 76.767 ms
Loss rate: 1.54%

Run 3: Report of Copa — Data Link

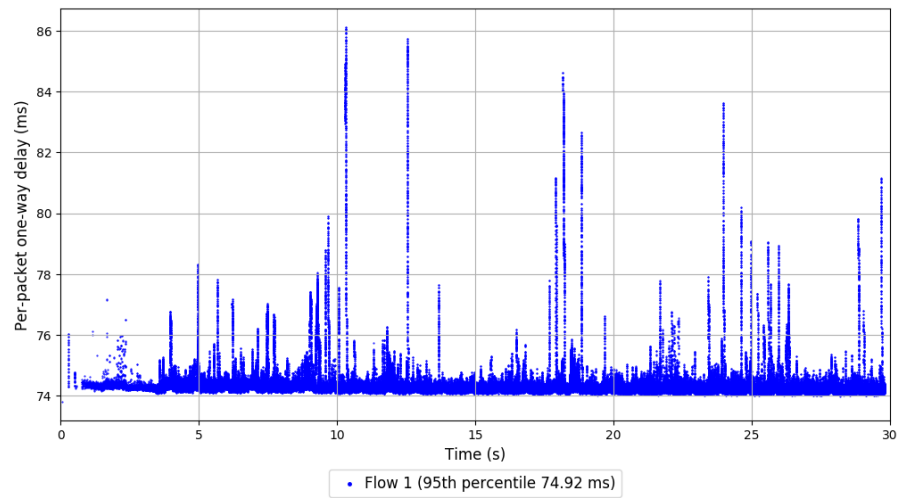
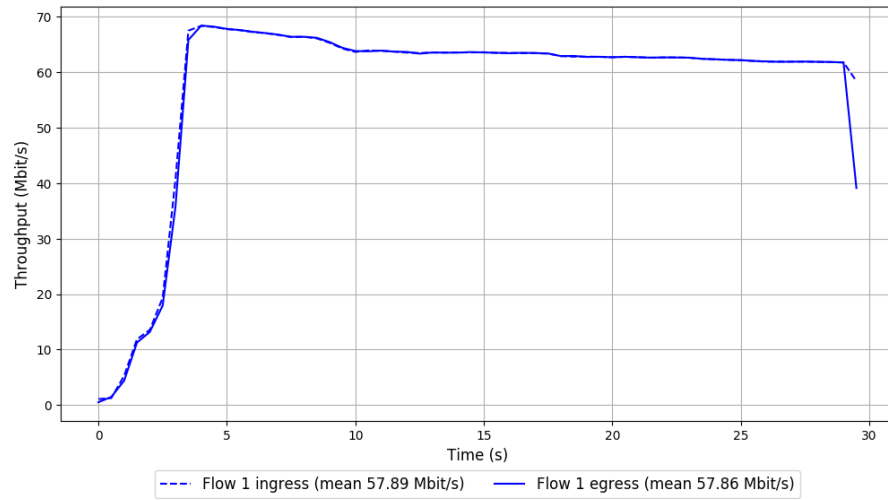


Run 4: Statistics of Copa

Start at: 2018-04-10 10:31:45
End at: 2018-04-10 10:32:15
Local clock offset: 2.062 ms
Remote clock offset: -13.059 ms

Below is generated by plot.py at 2018-04-10 17:25:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.86 Mbit/s
95th percentile per-packet one-way delay: 74.919 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 57.86 Mbit/s
95th percentile per-packet one-way delay: 74.919 ms
Loss rate: 0.82%

Run 4: Report of Copa — Data Link

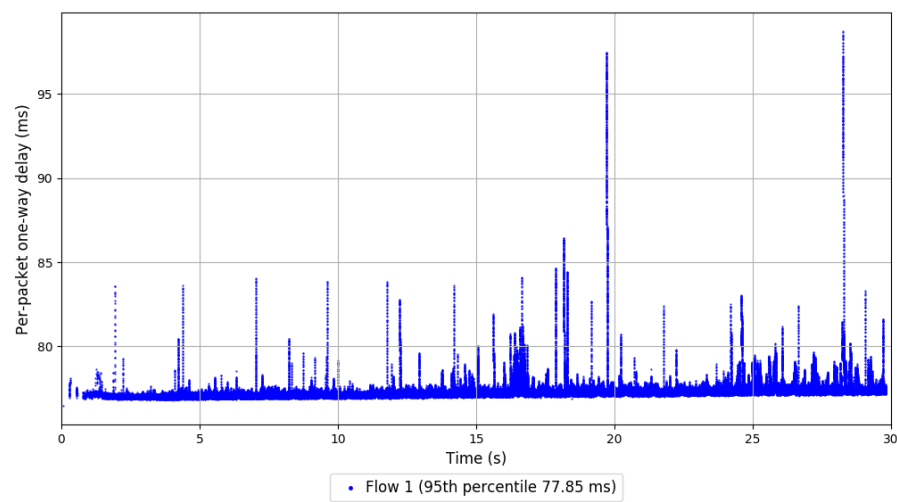
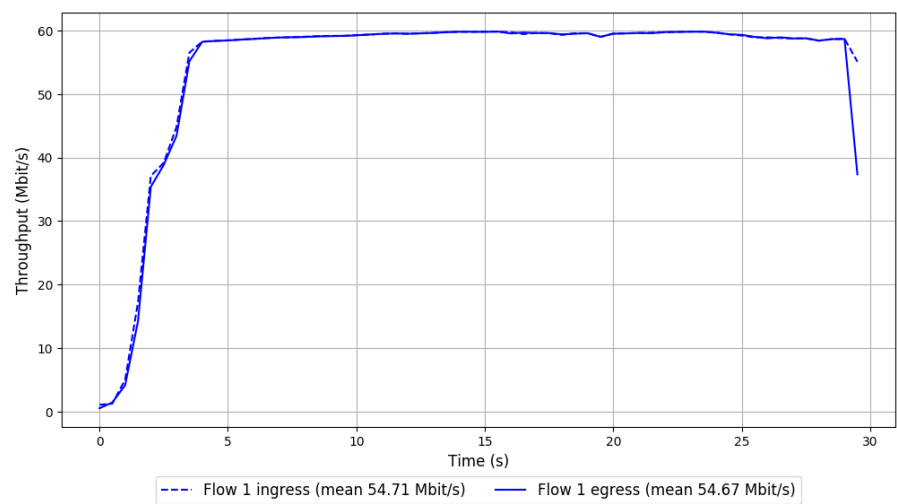


Run 5: Statistics of Copa

Start at: 2018-04-10 10:58:42
End at: 2018-04-10 10:59:12
Local clock offset: 2.018 ms
Remote clock offset: 14.844 ms

Below is generated by plot.py at 2018-04-10 17:25:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 77.847 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 54.67 Mbit/s
95th percentile per-packet one-way delay: 77.847 ms
Loss rate: 0.82%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 11:24:04

End at: 2018-04-10 11:24:34

Local clock offset: 8.604 ms

Remote clock offset: 7.641 ms

Below is generated by plot.py at 2018-04-10 17:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 71.813 ms

Loss rate: 0.92%

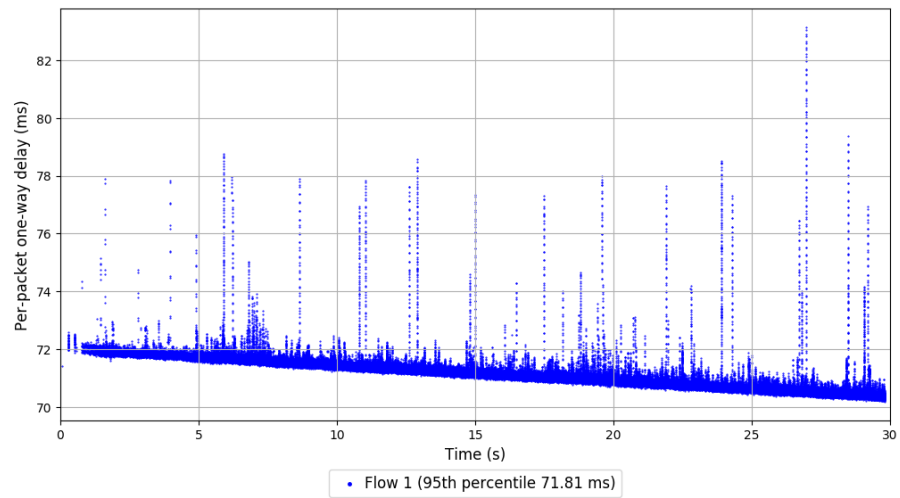
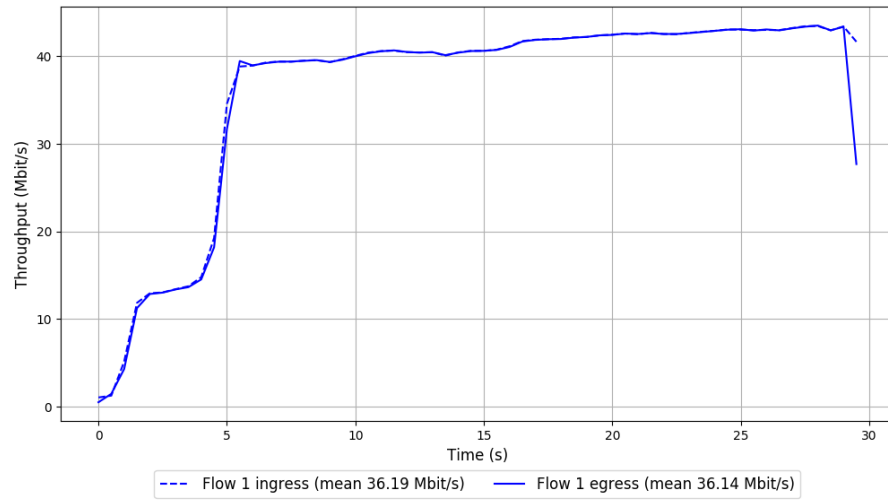
-- Flow 1:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 71.813 ms

Loss rate: 0.92%

Run 6: Report of Copa — Data Link

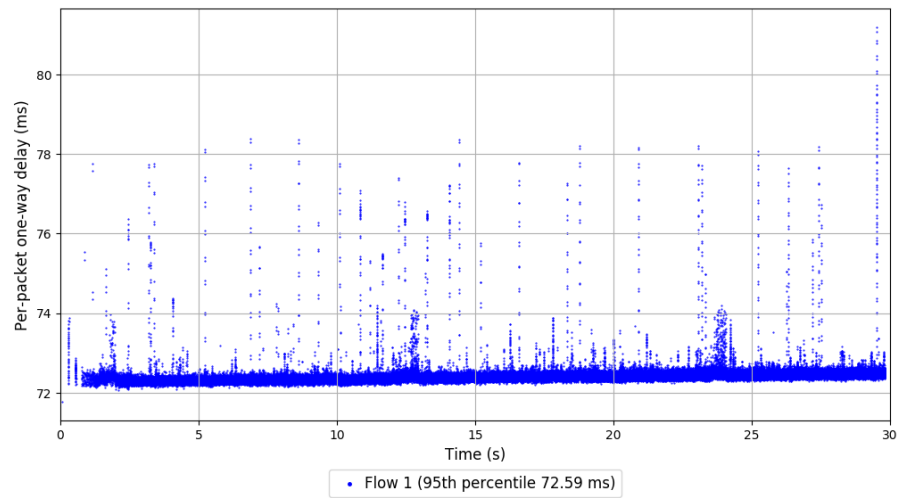
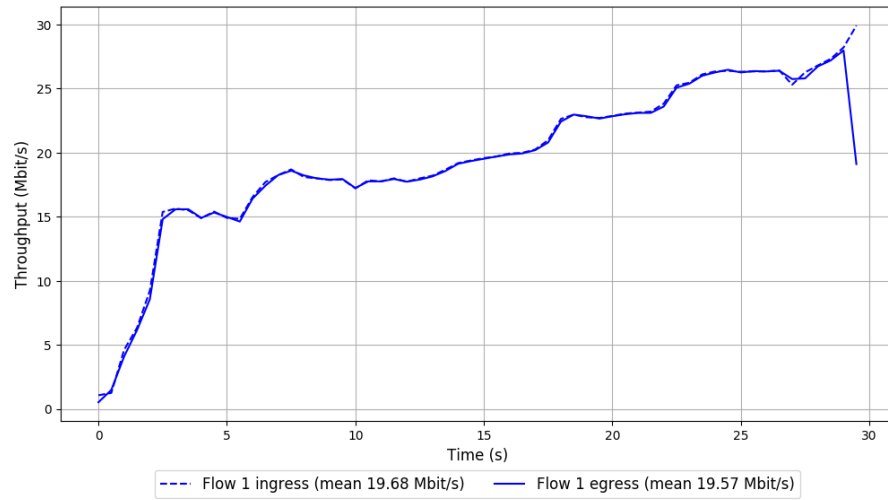


Run 7: Statistics of Copa

Start at: 2018-04-10 11:48:51
End at: 2018-04-10 11:49:21
Local clock offset: 36.253 ms
Remote clock offset: -2.596 ms

Below is generated by plot.py at 2018-04-10 17:25:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 72.586 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 19.57 Mbit/s
95th percentile per-packet one-way delay: 72.586 ms
Loss rate: 1.35%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-10 12:13:29

End at: 2018-04-10 12:13:59

Local clock offset: 47.685 ms

Remote clock offset: 5.579 ms

Below is generated by plot.py at 2018-04-10 17:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 78.024 ms

Loss rate: 1.01%

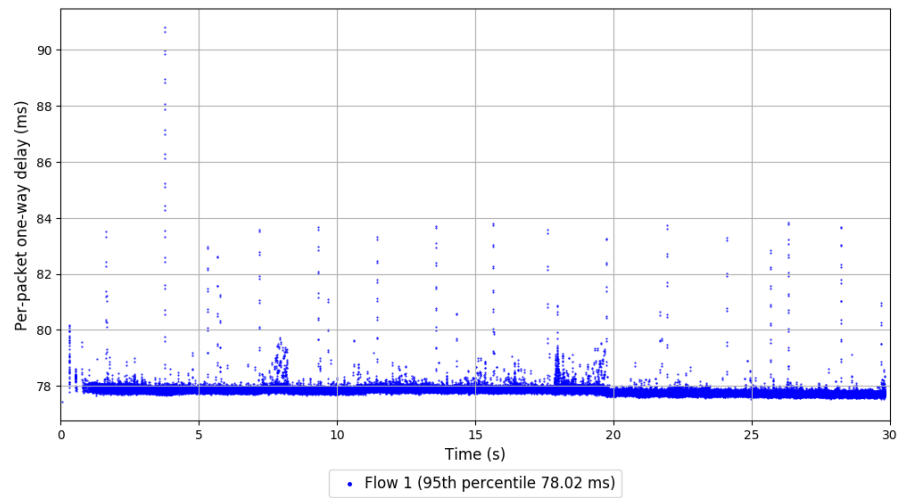
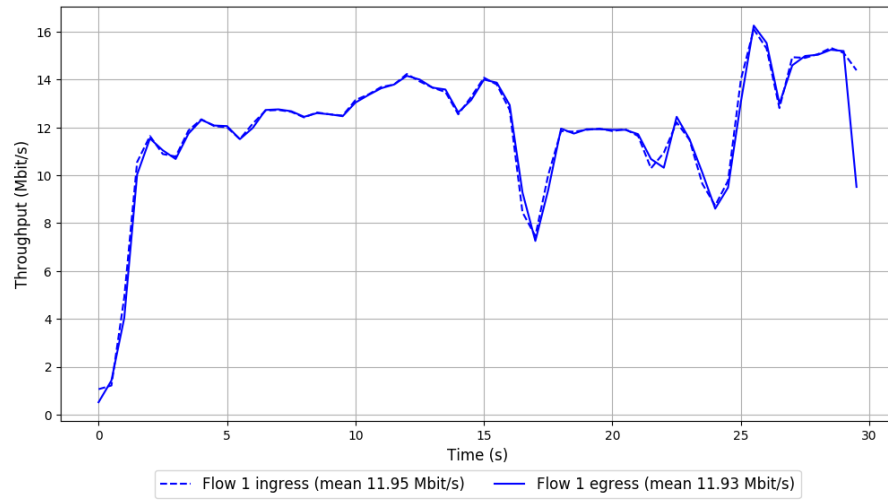
-- Flow 1:

Average throughput: 11.93 Mbit/s

95th percentile per-packet one-way delay: 78.024 ms

Loss rate: 1.01%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-10 12:38:04

End at: 2018-04-10 12:38:34

Local clock offset: 36.68 ms

Remote clock offset: 15.43 ms

Below is generated by plot.py at 2018-04-10 17:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 75.561 ms

Loss rate: 0.97%

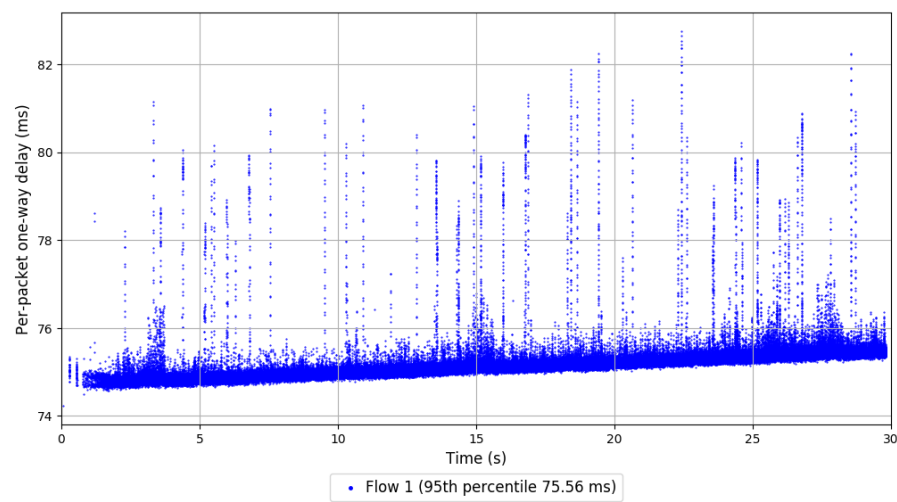
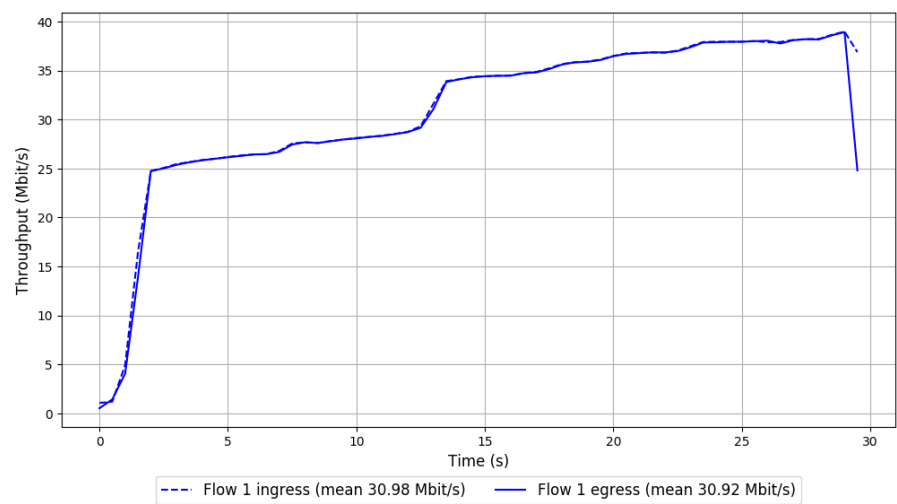
-- Flow 1:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 75.561 ms

Loss rate: 0.97%

Run 9: Report of Copa — Data Link

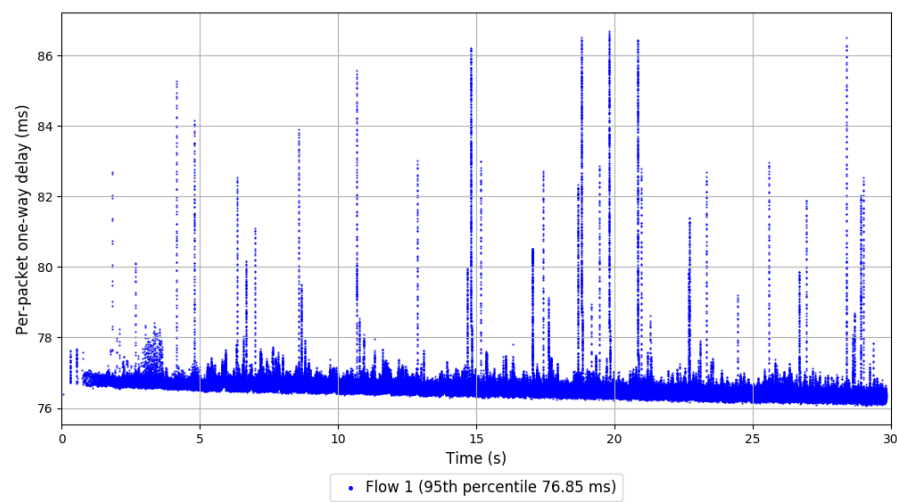
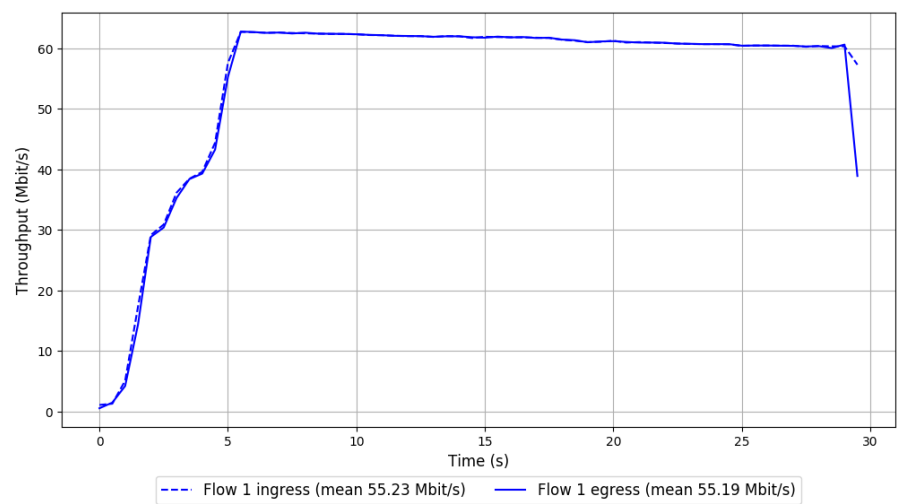


Run 10: Statistics of Copa

Start at: 2018-04-10 13:02:56
End at: 2018-04-10 13:03:26
Local clock offset: 24.792 ms
Remote clock offset: 11.098 ms

Below is generated by plot.py at 2018-04-10 17:26:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 76.850 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 76.850 ms
Loss rate: 0.84%

Run 10: Report of Copa — Data Link

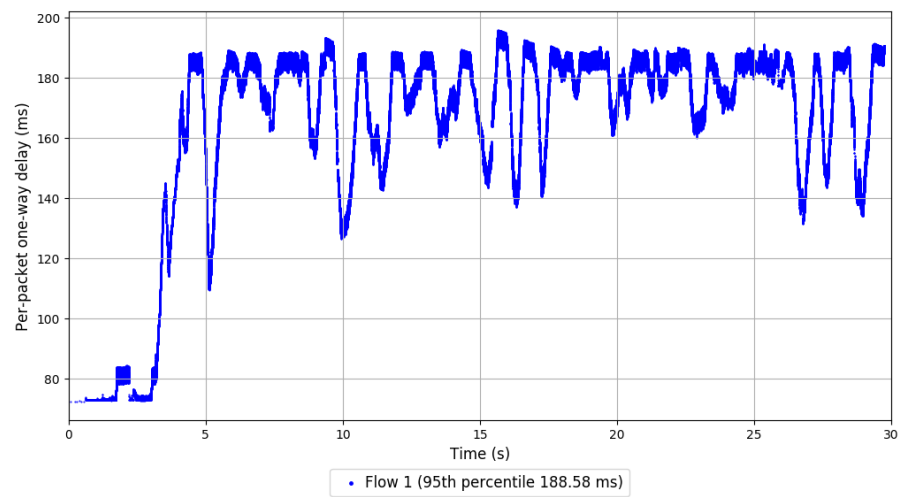
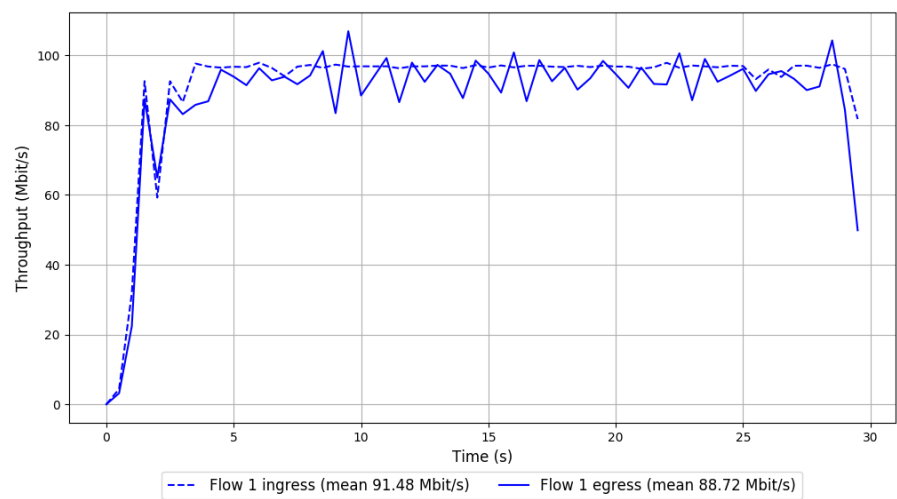


Run 1: Statistics of FillP

Start at: 2018-04-10 09:21:05
End at: 2018-04-10 09:21:35
Local clock offset: 2.416 ms
Remote clock offset: -4.068 ms

Below is generated by plot.py at 2018-04-10 17:26:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.72 Mbit/s
95th percentile per-packet one-way delay: 188.582 ms
Loss rate: 3.76%
-- Flow 1:
Average throughput: 88.72 Mbit/s
95th percentile per-packet one-way delay: 188.582 ms
Loss rate: 3.76%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 09:46:59

End at: 2018-04-10 09:47:29

Local clock offset: 1.764 ms

Remote clock offset: -5.4 ms

Below is generated by plot.py at 2018-04-10 17:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 82.421 ms

Loss rate: 0.87%

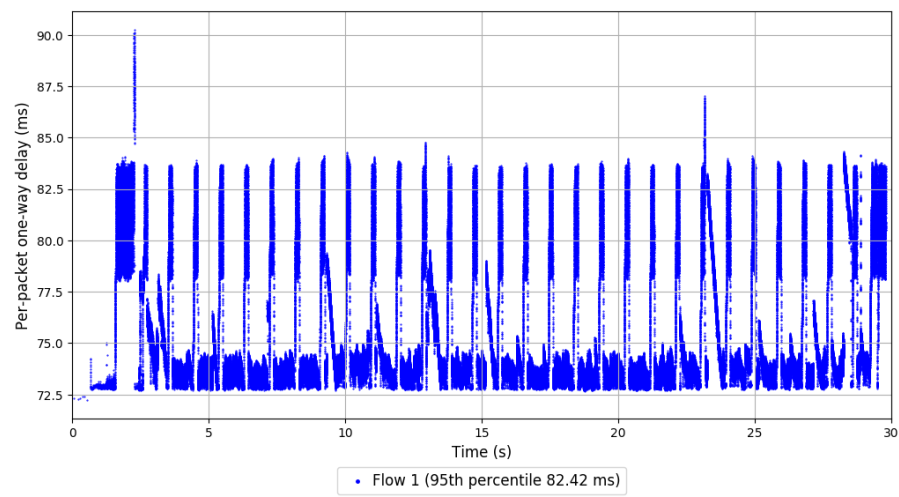
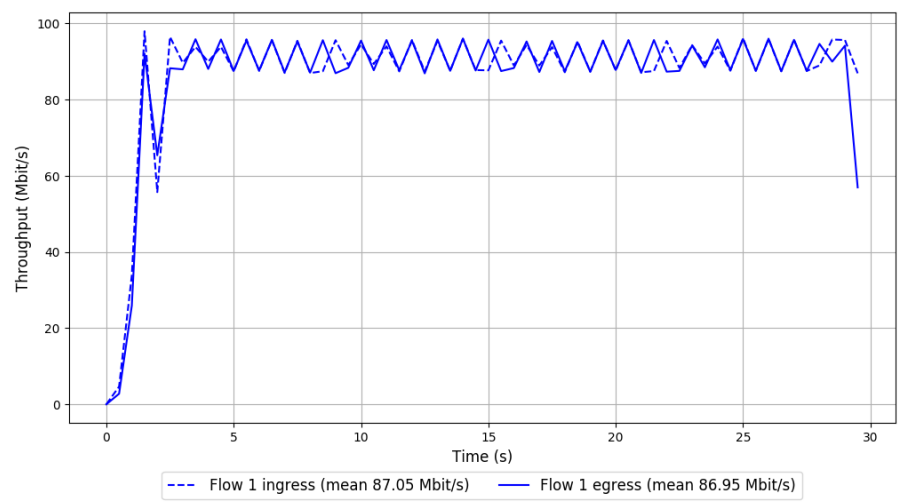
-- Flow 1:

Average throughput: 86.95 Mbit/s

95th percentile per-packet one-way delay: 82.421 ms

Loss rate: 0.87%

Run 2: Report of FillP — Data Link

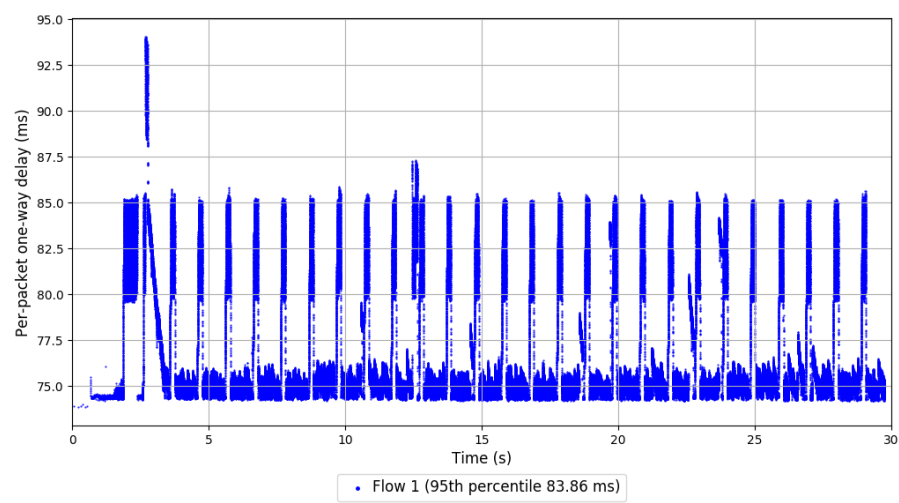
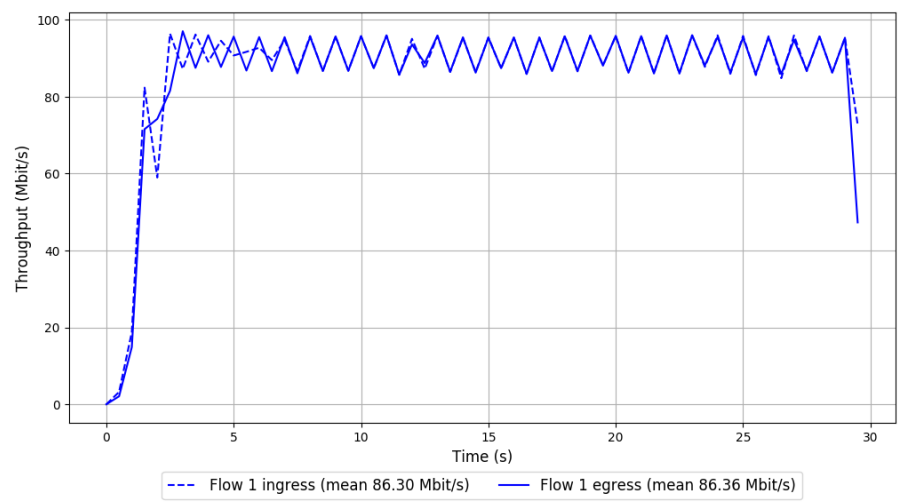


Run 3: Statistics of FillP

Start at: 2018-04-10 10:11:52
End at: 2018-04-10 10:12:22
Local clock offset: 1.205 ms
Remote clock offset: -9.339 ms

Below is generated by plot.py at 2018-04-10 17:26:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.36 Mbit/s
95th percentile per-packet one-way delay: 83.859 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 86.36 Mbit/s
95th percentile per-packet one-way delay: 83.859 ms
Loss rate: 0.77%

Run 3: Report of FillP — Data Link

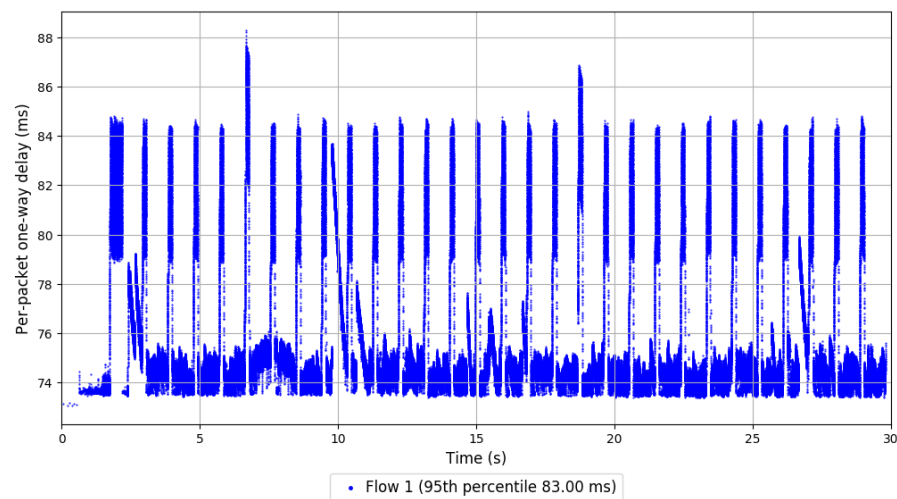
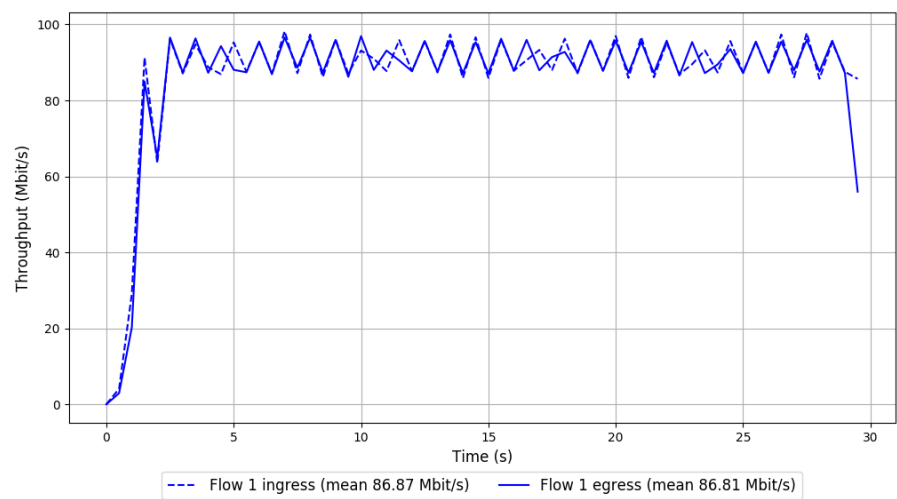


Run 4: Statistics of FillP

Start at: 2018-04-10 10:39:48
End at: 2018-04-10 10:40:18
Local clock offset: 1.811 ms
Remote clock offset: -14.562 ms

Below is generated by plot.py at 2018-04-10 17:26:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.81 Mbit/s
95th percentile per-packet one-way delay: 83.000 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 86.81 Mbit/s
95th percentile per-packet one-way delay: 83.000 ms
Loss rate: 0.84%

Run 4: Report of FillP — Data Link

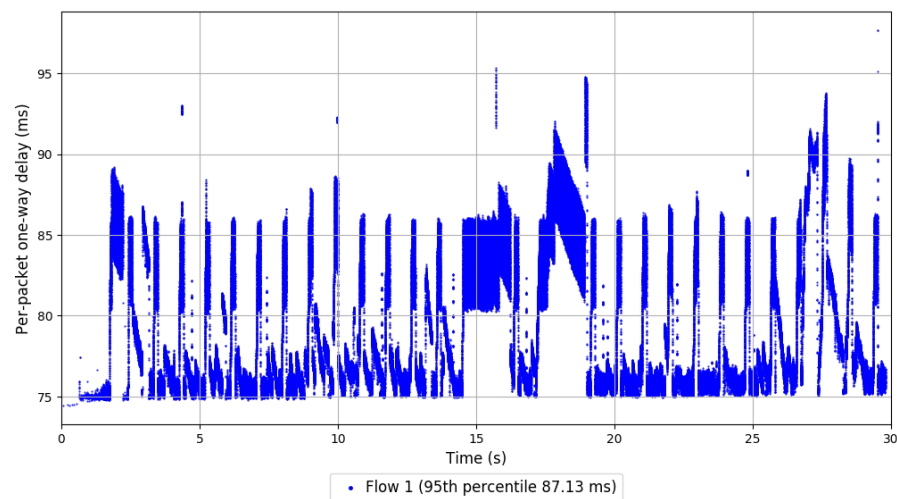
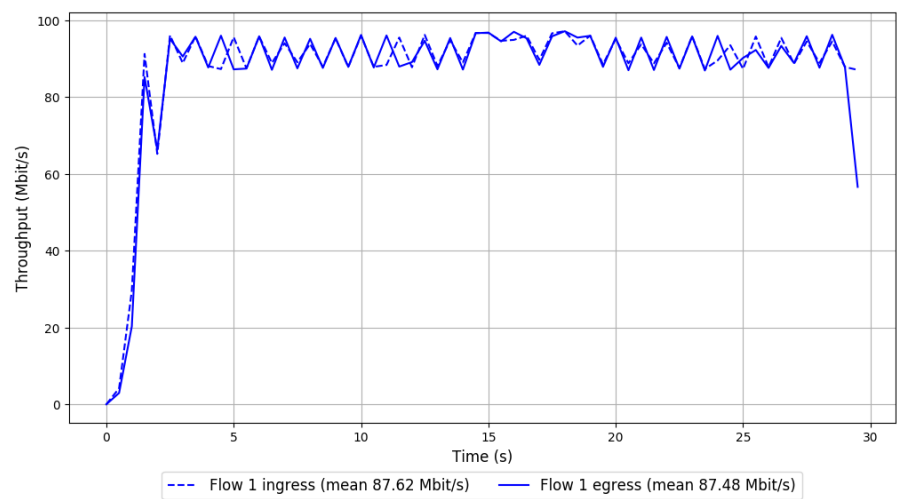


Run 5: Statistics of FillP

Start at: 2018-04-10 11:04:09
End at: 2018-04-10 11:04:39
Local clock offset: 2.159 ms
Remote clock offset: 18.044 ms

Below is generated by plot.py at 2018-04-10 17:26:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 87.129 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 87.129 ms
Loss rate: 0.93%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 11:29:28

End at: 2018-04-10 11:29:58

Local clock offset: 19.132 ms

Remote clock offset: 3.595 ms

Below is generated by plot.py at 2018-04-10 17:26:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 80.515 ms

Loss rate: 0.89%

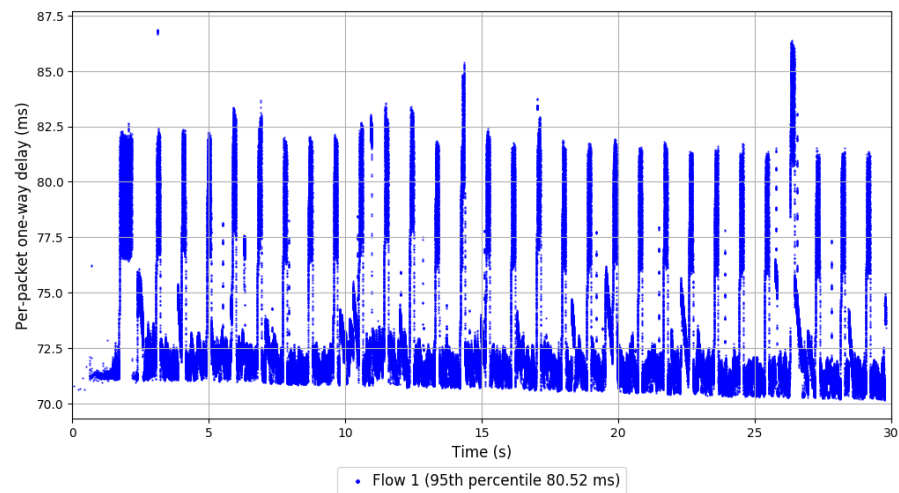
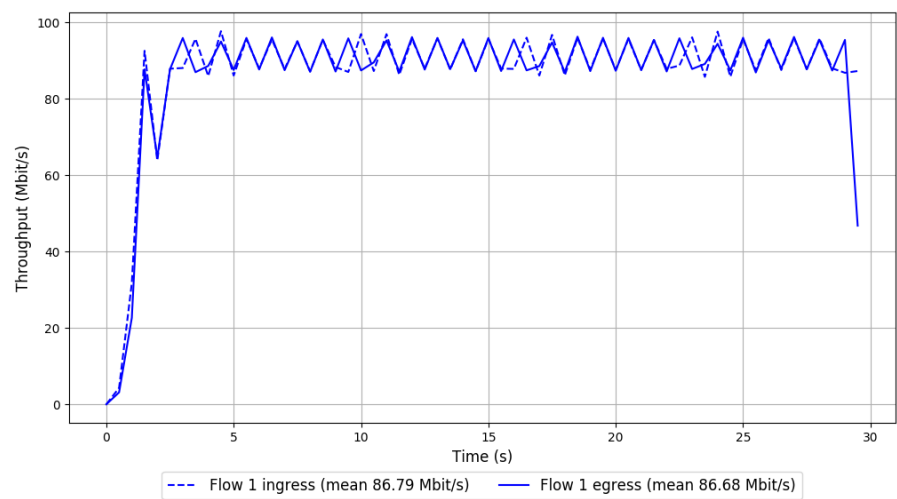
-- Flow 1:

Average throughput: 86.68 Mbit/s

95th percentile per-packet one-way delay: 80.515 ms

Loss rate: 0.89%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-10 11:54:20

End at: 2018-04-10 11:54:50

Local clock offset: 39.052 ms

Remote clock offset: 1.481 ms

Below is generated by plot.py at 2018-04-10 17:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 110.085 ms

Loss rate: 0.97%

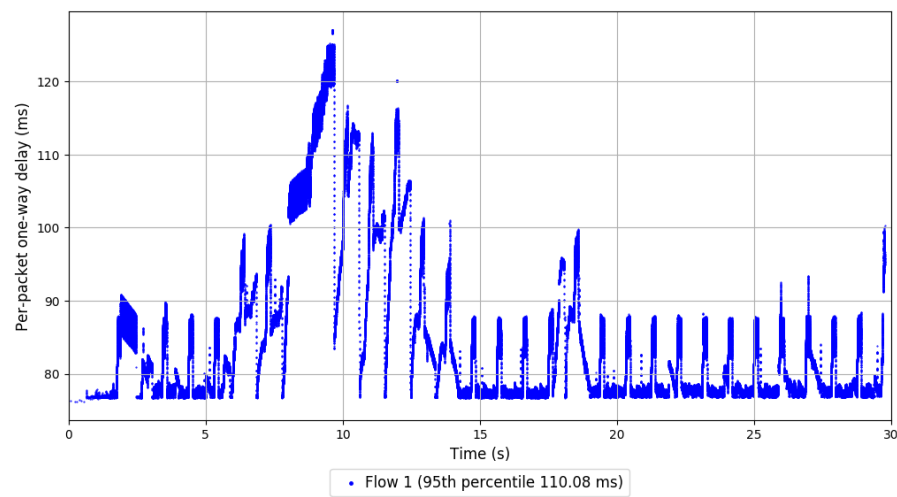
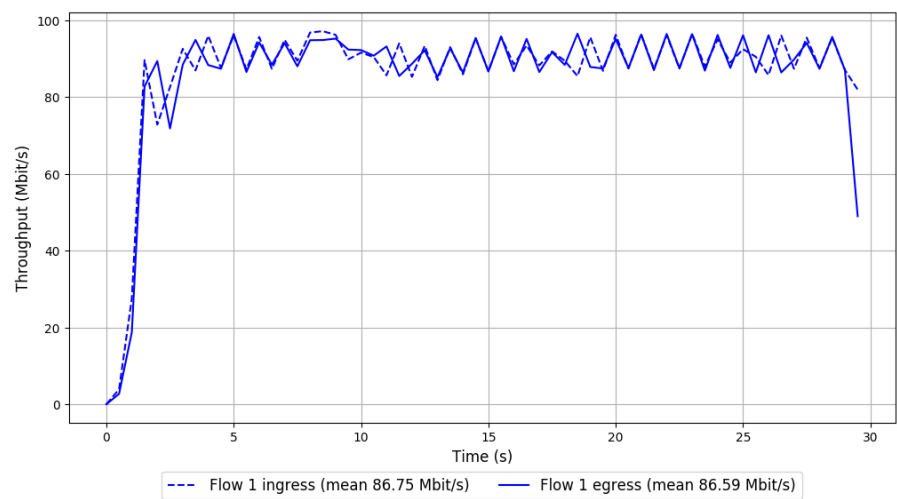
-- Flow 1:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 110.085 ms

Loss rate: 0.97%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 12:18:45

End at: 2018-04-10 12:19:15

Local clock offset: 49.954 ms

Remote clock offset: 5.658 ms

Below is generated by plot.py at 2018-04-10 17:27:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.84 Mbit/s

95th percentile per-packet one-way delay: 85.822 ms

Loss rate: 0.77%

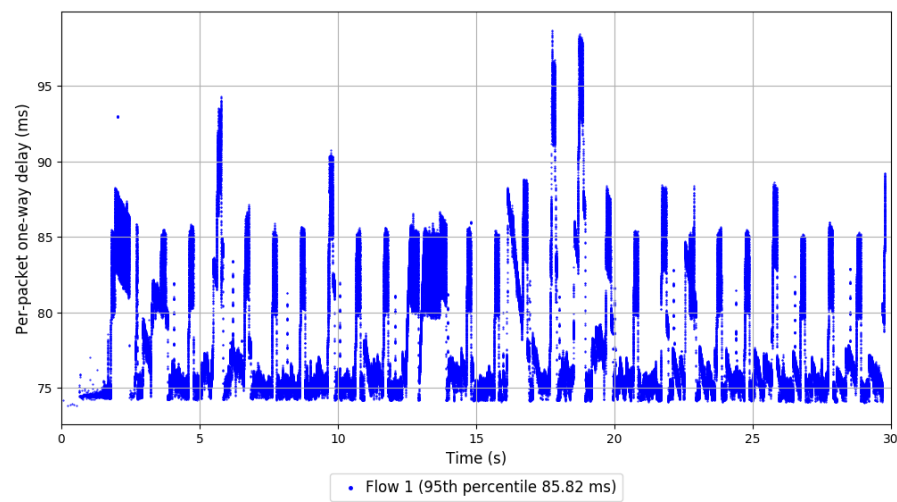
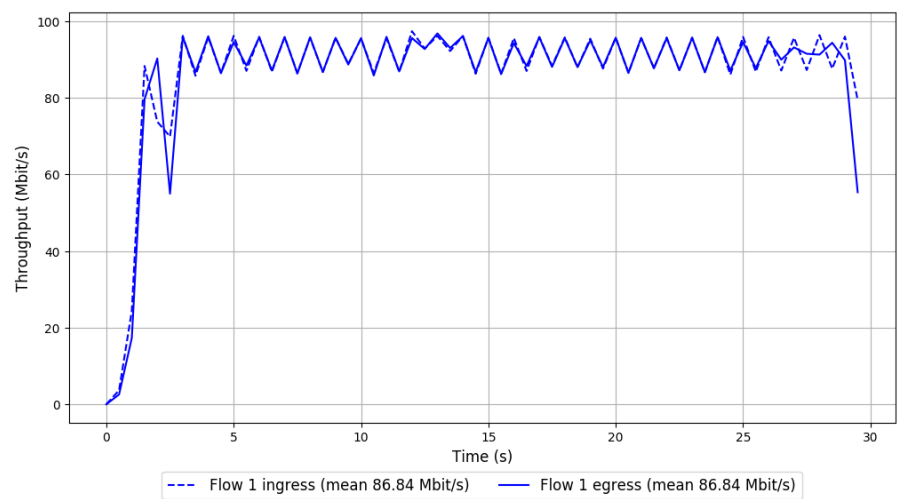
-- Flow 1:

Average throughput: 86.84 Mbit/s

95th percentile per-packet one-way delay: 85.822 ms

Loss rate: 0.77%

Run 8: Report of FillP — Data Link

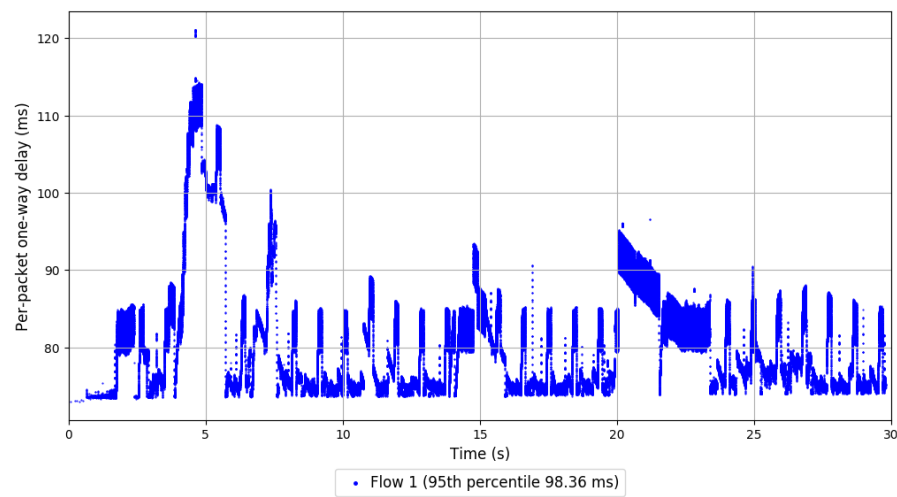
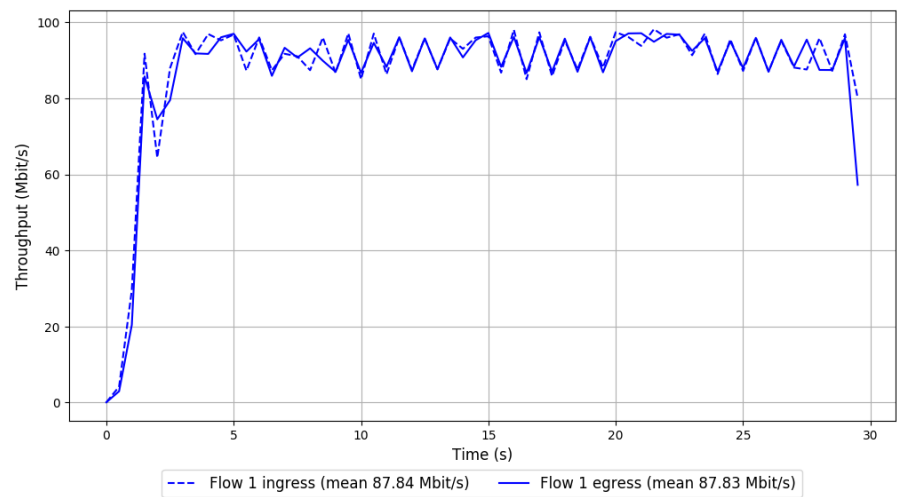


Run 9: Statistics of FillP

Start at: 2018-04-10 12:43:27
End at: 2018-04-10 12:43:57
Local clock offset: 31.377 ms
Remote clock offset: 17.117 ms

Below is generated by plot.py at 2018-04-10 17:27:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.83 Mbit/s
95th percentile per-packet one-way delay: 98.361 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 87.83 Mbit/s
95th percentile per-packet one-way delay: 98.361 ms
Loss rate: 0.81%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-10 13:08:20

End at: 2018-04-10 13:08:50

Local clock offset: 22.127 ms

Remote clock offset: 6.468 ms

Below is generated by plot.py at 2018-04-10 17:28:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 88.198 ms

Loss rate: 0.85%

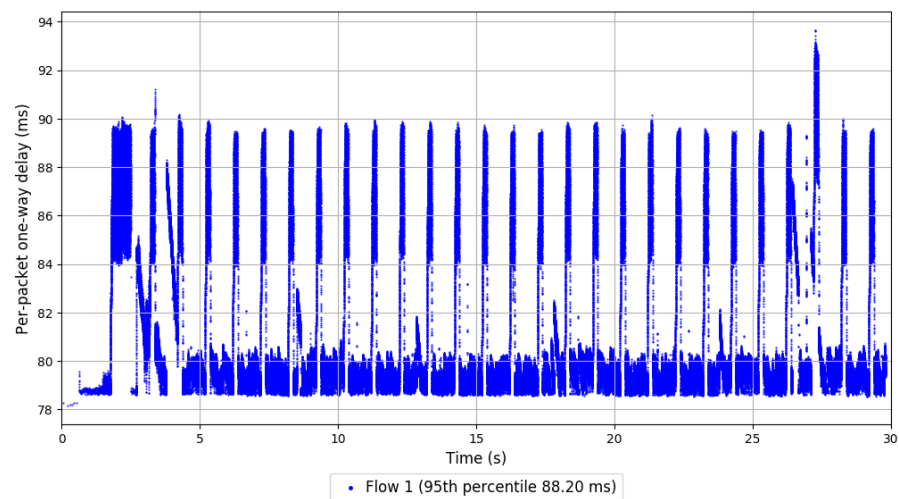
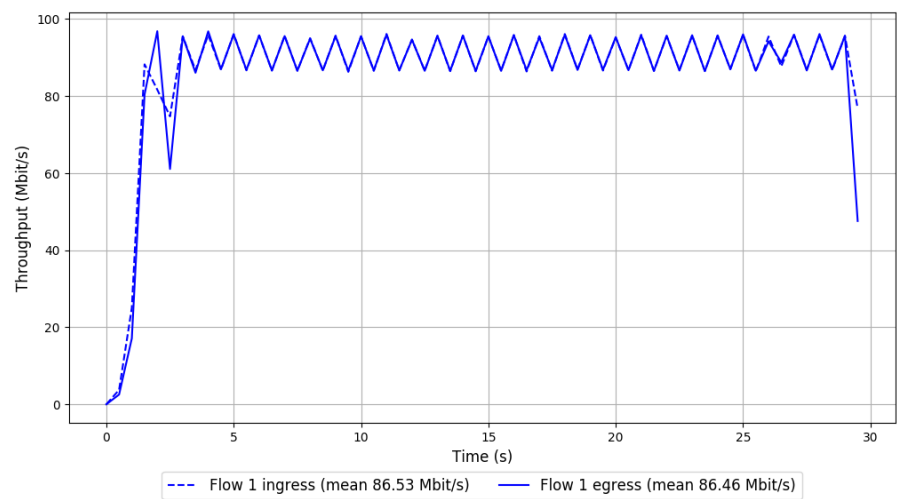
-- Flow 1:

Average throughput: 86.46 Mbit/s

95th percentile per-packet one-way delay: 88.198 ms

Loss rate: 0.85%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

/home/ubuntu/pantheon_data/2018-04-10T09-00-China-to-AWS-Korea-10-runs/indigo_1_32_stats_run

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

Figure is missing

Figure is missing

Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 09:29:16

End at: 2018-04-10 09:29:46

Local clock offset: 2.417 ms

Remote clock offset: -7.919 ms

Below is generated by plot.py at 2018-04-10 17:28:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 86.755 ms

Loss rate: 0.95%

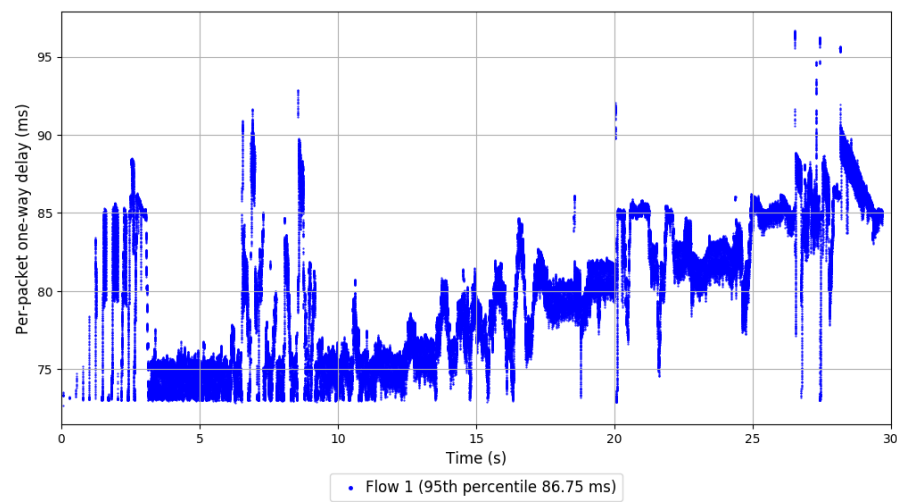
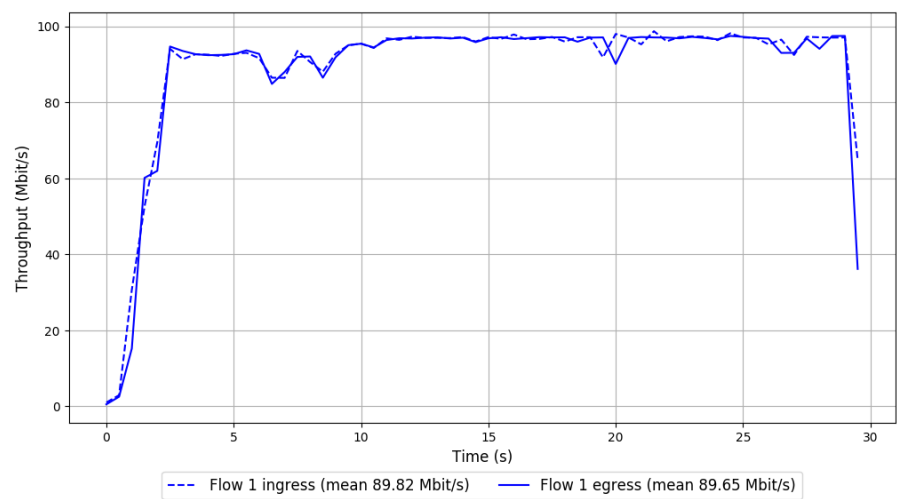
-- Flow 1:

Average throughput: 89.65 Mbit/s

95th percentile per-packet one-way delay: 86.755 ms

Loss rate: 0.95%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 09:53:38

End at: 2018-04-10 09:54:08

Local clock offset: 1.454 ms

Remote clock offset: -6.15 ms

Below is generated by plot.py at 2018-04-10 17:28:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 91.349 ms

Loss rate: 0.91%

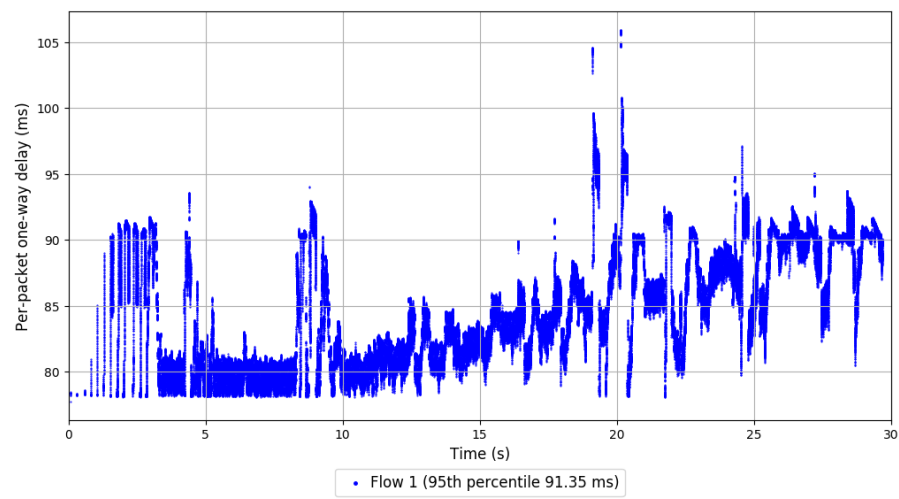
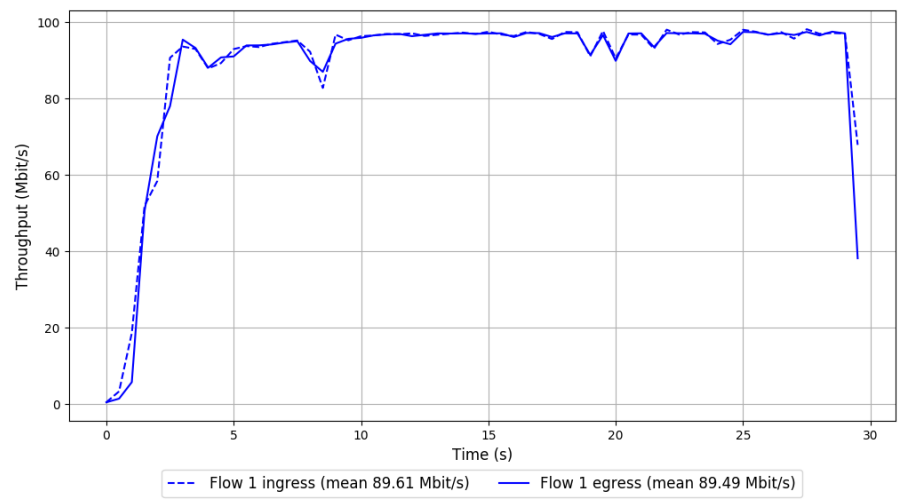
-- Flow 1:

Average throughput: 89.49 Mbit/s

95th percentile per-packet one-way delay: 91.349 ms

Loss rate: 0.91%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 10:19:15

End at: 2018-04-10 10:19:45

Local clock offset: 1.675 ms

Remote clock offset: -10.64 ms

Below is generated by plot.py at 2018-04-10 17:28:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.92 Mbit/s

95th percentile per-packet one-way delay: 296.918 ms

Loss rate: 15.96%

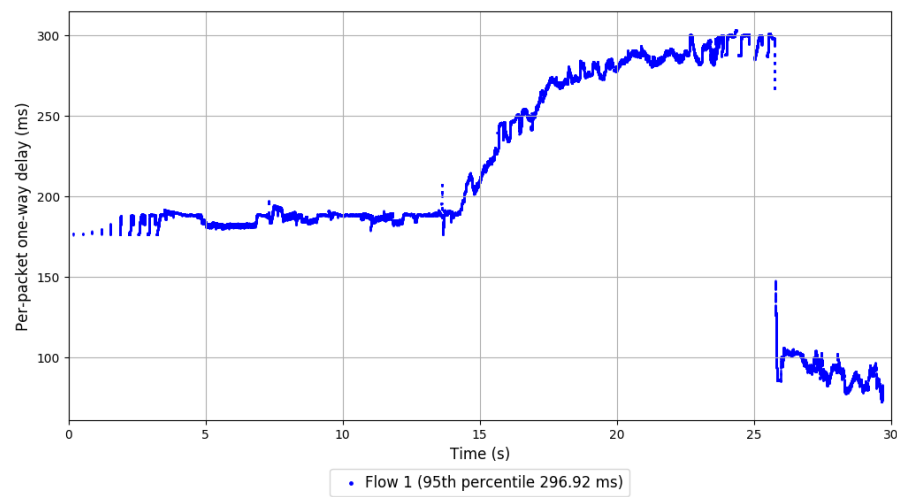
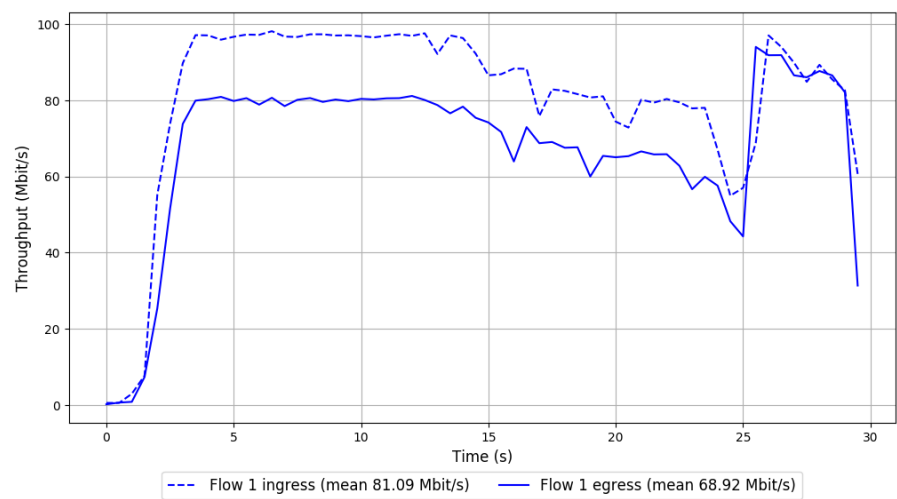
-- Flow 1:

Average throughput: 68.92 Mbit/s

95th percentile per-packet one-way delay: 296.918 ms

Loss rate: 15.96%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 10:46:26

End at: 2018-04-10 10:46:56

Local clock offset: 1.957 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-04-10 17:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 87.300 ms

Loss rate: 0.89%

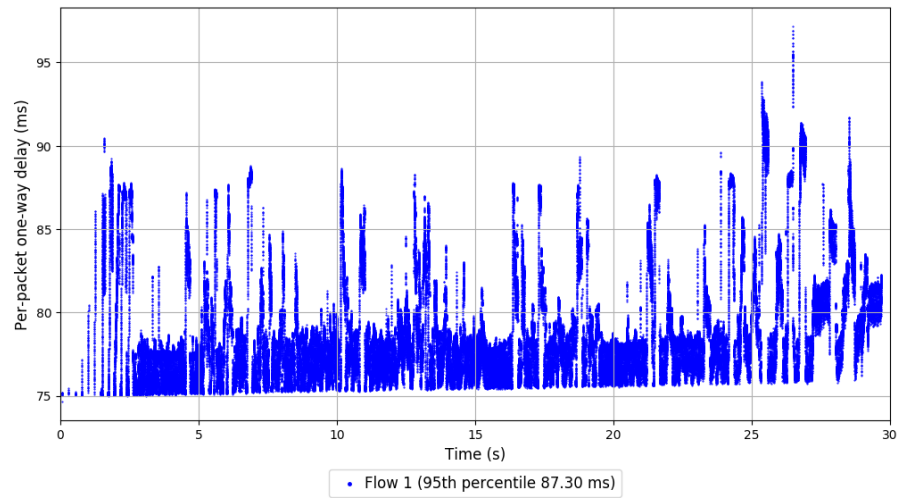
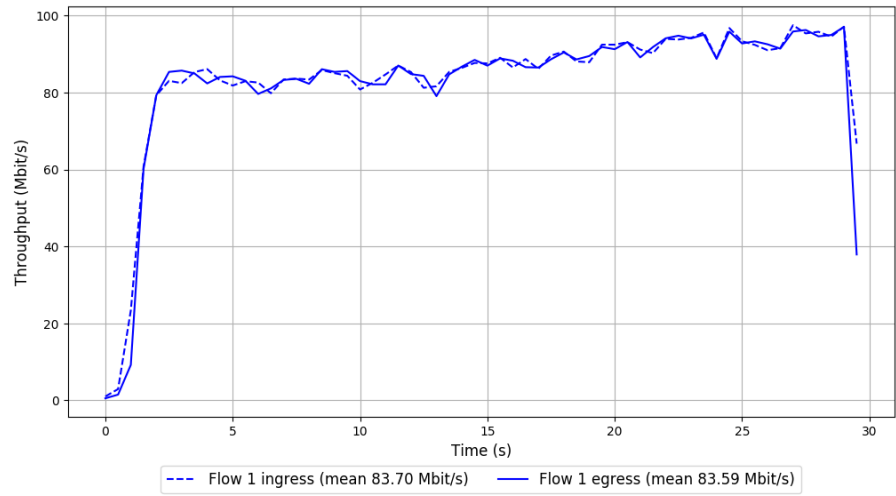
-- Flow 1:

Average throughput: 83.59 Mbit/s

95th percentile per-packet one-way delay: 87.300 ms

Loss rate: 0.89%

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

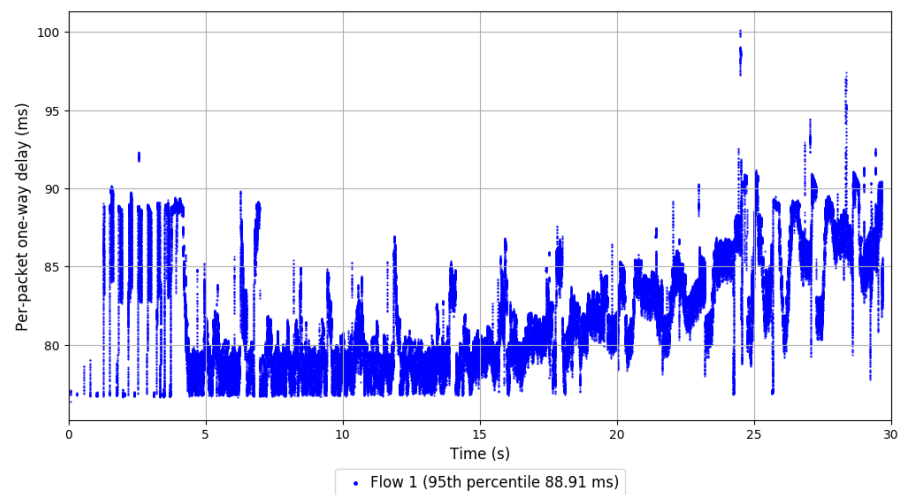
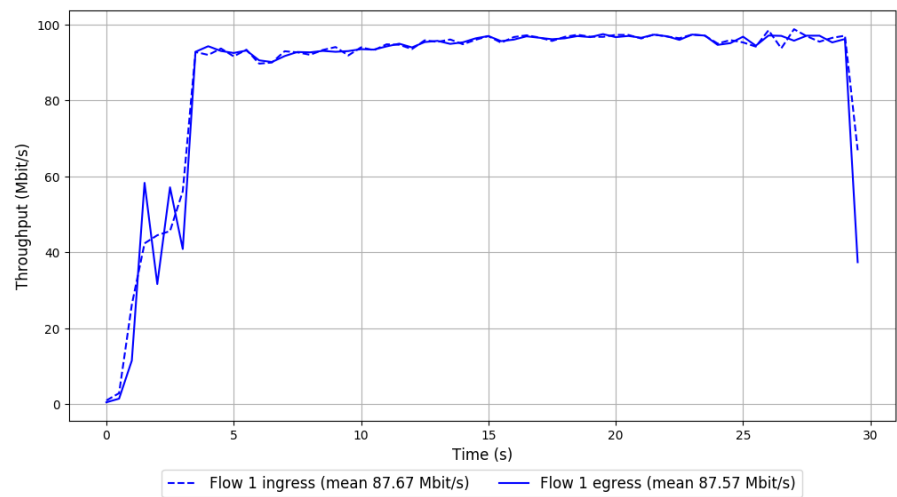


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 11:11:05
End at: 2018-04-10 11:11:35
Local clock offset: 1.795 ms
Remote clock offset: 21.308 ms

Below is generated by plot.py at 2018-04-10 17:28:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 88.906 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 88.906 ms
Loss rate: 0.90%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 11:36:05

End at: 2018-04-10 11:36:35

Local clock offset: 27.292 ms

Remote clock offset: 0.53 ms

Below is generated by plot.py at 2018-04-10 17:28:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 89.690 ms

Loss rate: 0.92%

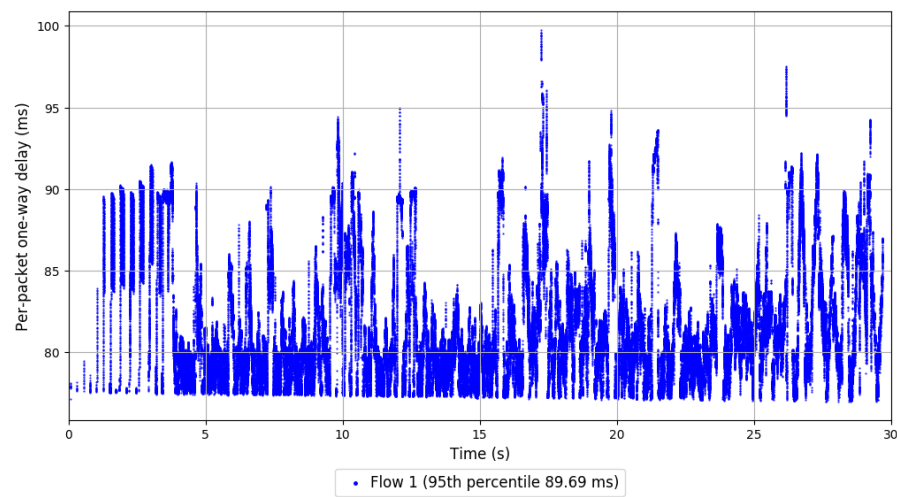
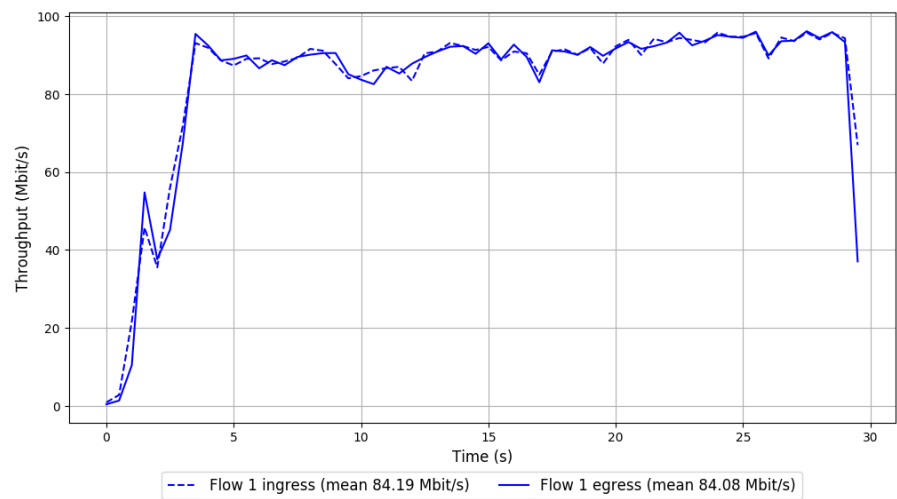
-- Flow 1:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 89.690 ms

Loss rate: 0.92%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 12:00:58

End at: 2018-04-10 12:01:28

Local clock offset: 42.133 ms

Remote clock offset: 4.073 ms

Below is generated by plot.py at 2018-04-10 17:29:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 85.908 ms

Loss rate: 0.84%

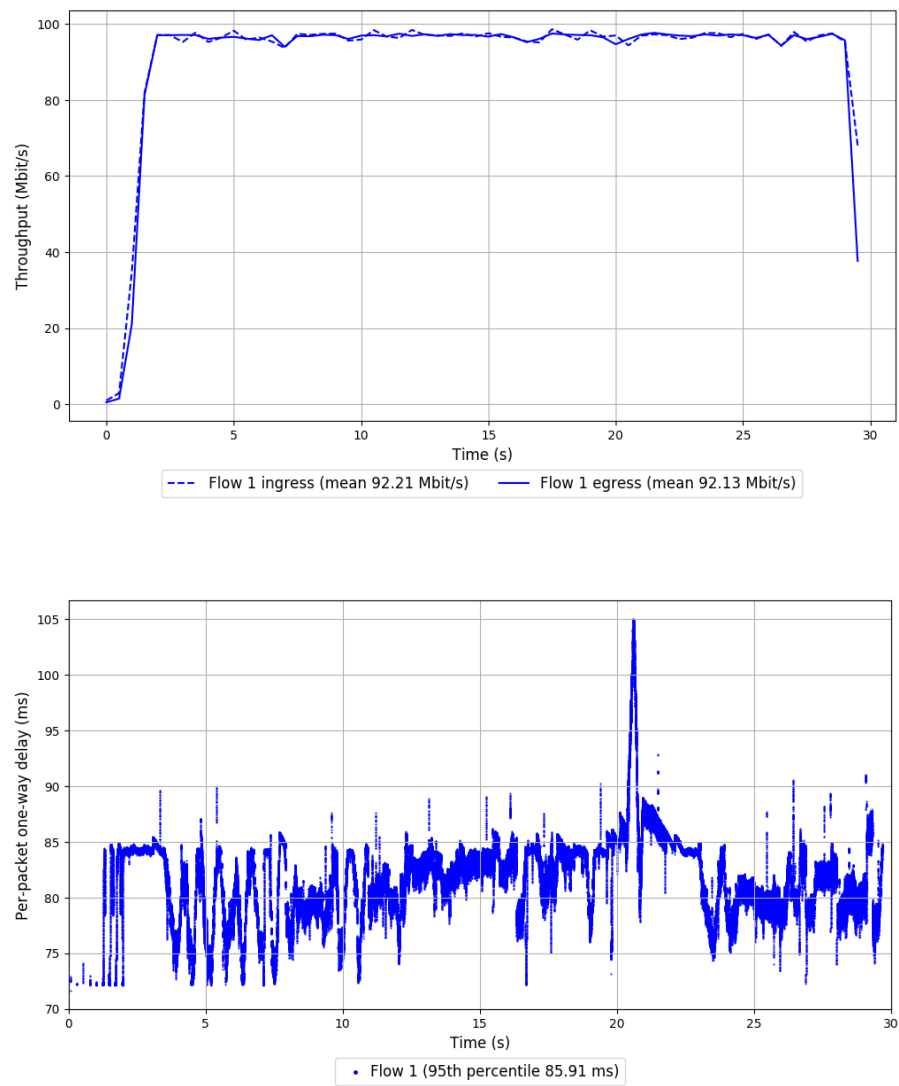
-- Flow 1:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 85.908 ms

Loss rate: 0.84%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-10 12:25:21

End at: 2018-04-10 12:25:51

Local clock offset: 52.893 ms

Remote clock offset: 7.857 ms

Below is generated by plot.py at 2018-04-10 17:29:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 88.450 ms

Loss rate: 0.79%

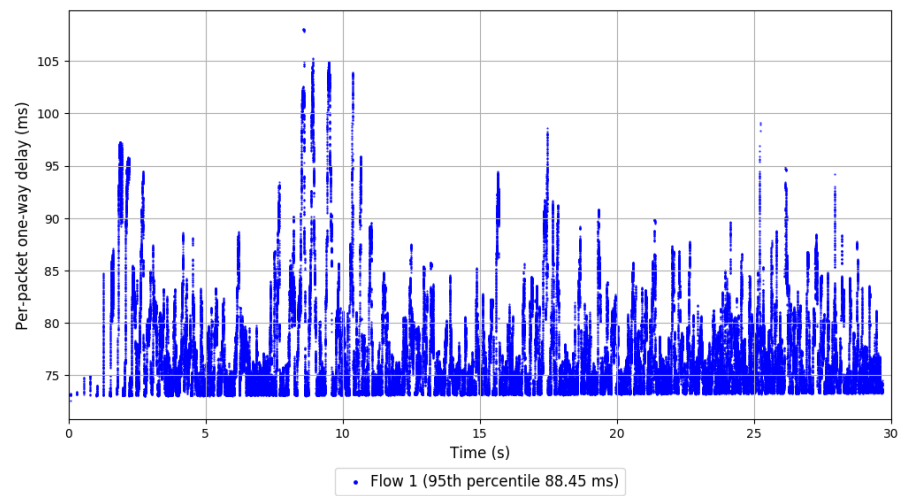
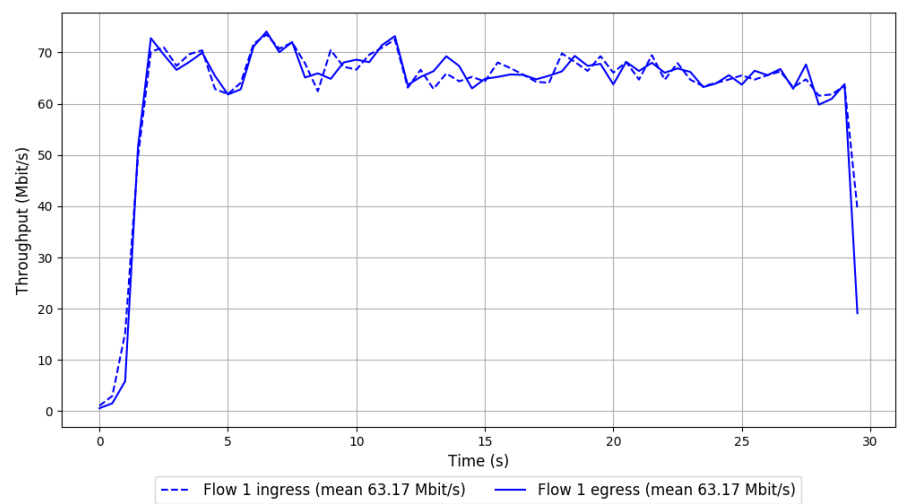
-- Flow 1:

Average throughput: 63.17 Mbit/s

95th percentile per-packet one-way delay: 88.450 ms

Loss rate: 0.79%

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

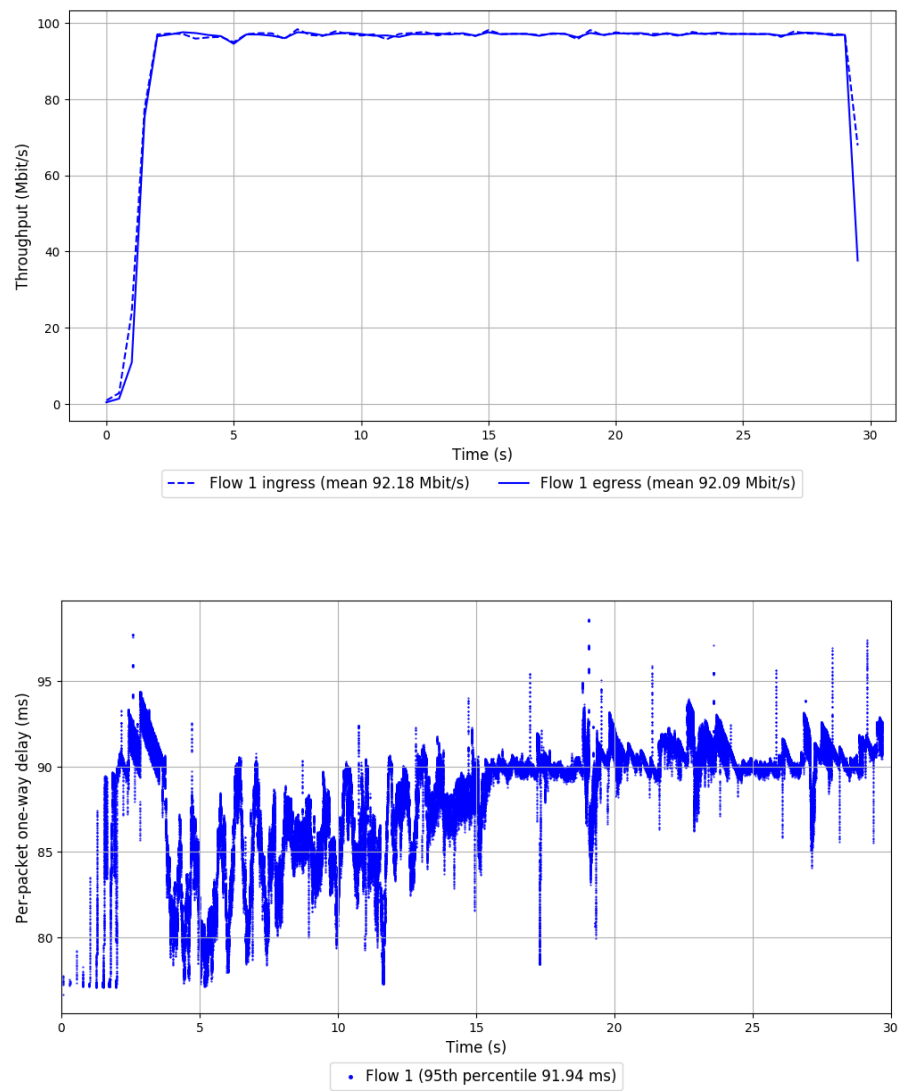


Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 12:50:15
End at: 2018-04-10 12:50:45
Local clock offset: 27.726 ms
Remote clock offset: 18.731 ms

Below is generated by plot.py at 2018-04-10 17:29:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 91.935 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 91.935 ms
Loss rate: 0.89%

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

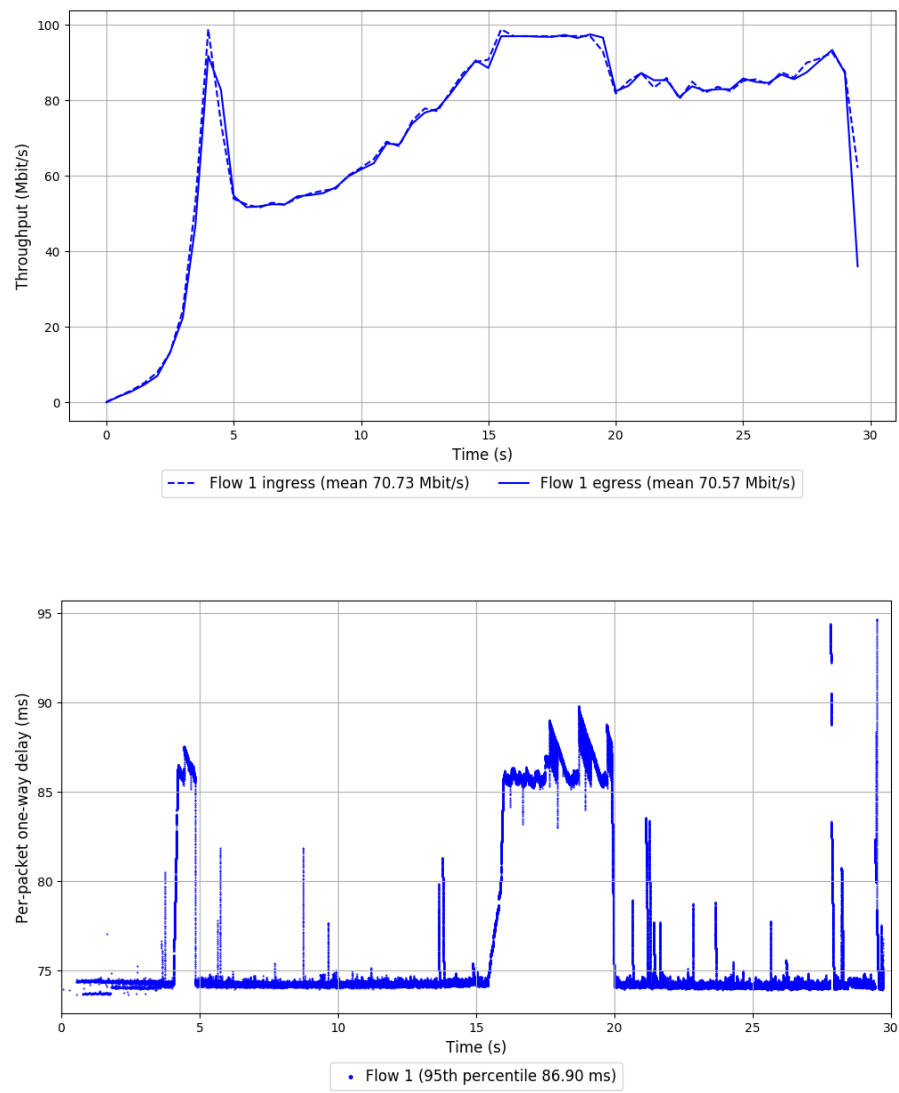


Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 09:17:01
End at: 2018-04-10 09:17:31
Local clock offset: 2.473 ms
Remote clock offset: -1.687 ms

Below is generated by plot.py at 2018-04-10 17:29:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.57 Mbit/s
95th percentile per-packet one-way delay: 86.903 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 70.57 Mbit/s
95th percentile per-packet one-way delay: 86.903 ms
Loss rate: 1.00%

Run 1: Report of Vivace-latency — Data Link

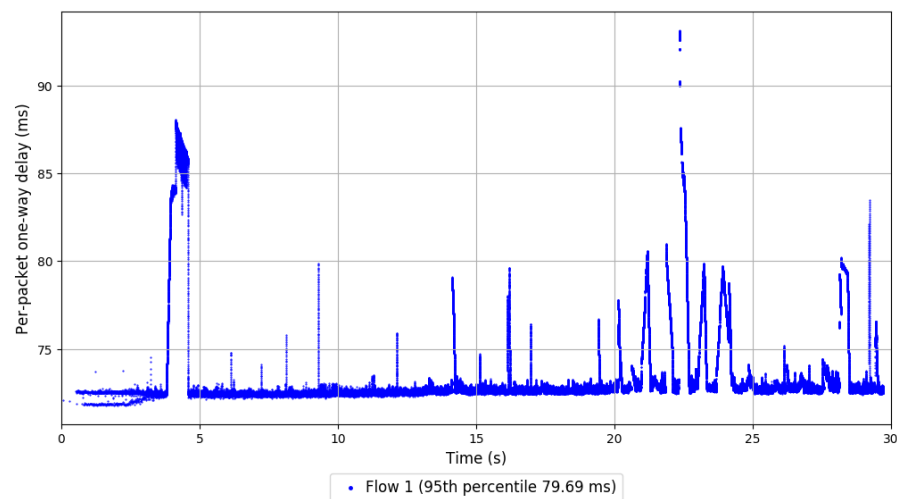
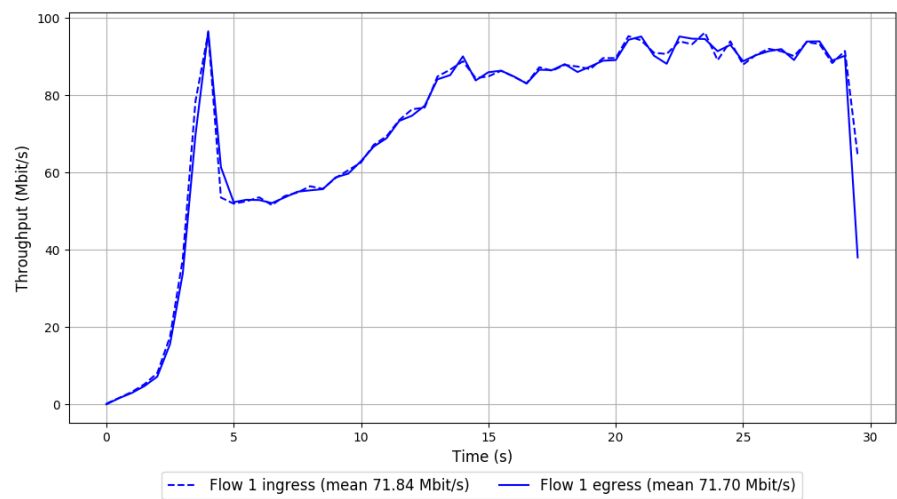


Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 09:42:58
End at: 2018-04-10 09:43:28
Local clock offset: 1.937 ms
Remote clock offset: -5.268 ms

Below is generated by plot.py at 2018-04-10 17:29:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.70 Mbit/s
95th percentile per-packet one-way delay: 79.688 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 71.70 Mbit/s
95th percentile per-packet one-way delay: 79.688 ms
Loss rate: 0.96%

Run 2: Report of Vivace-latency — Data Link

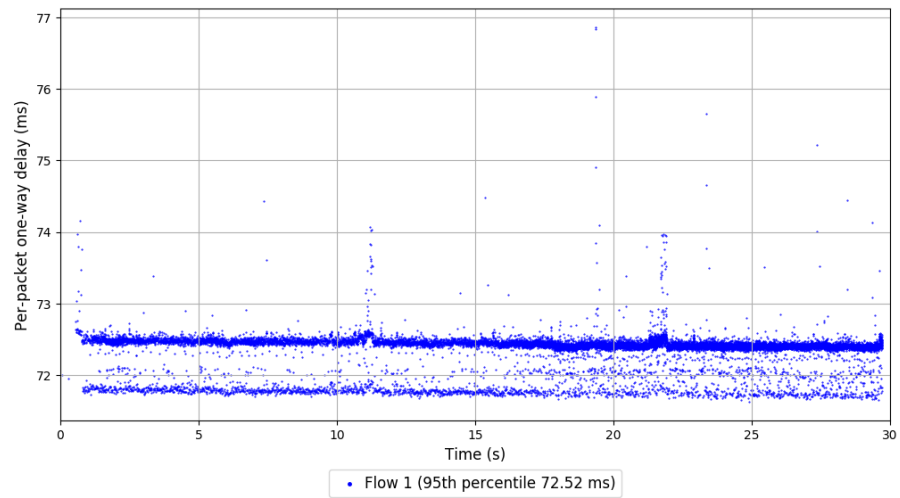
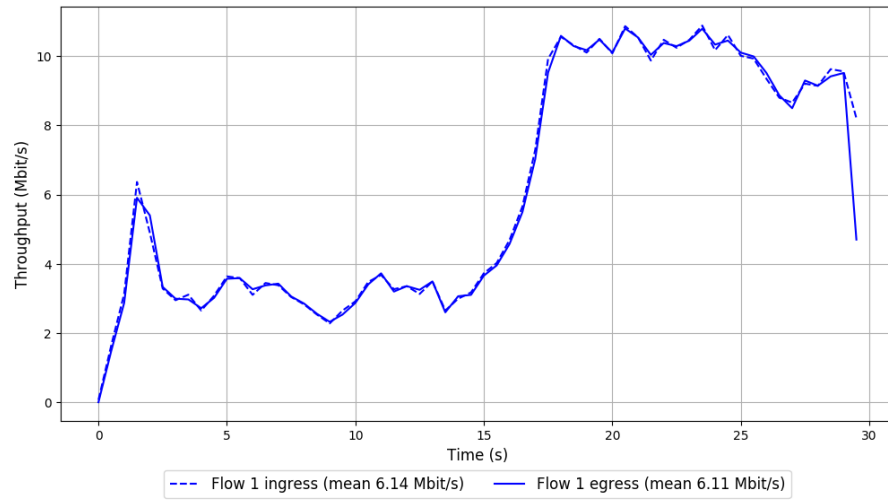


Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 10:07:55
End at: 2018-04-10 10:08:25
Local clock offset: 1.213 ms
Remote clock offset: -8.633 ms

Below is generated by plot.py at 2018-04-10 17:29:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 72.520 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 72.520 ms
Loss rate: 1.36%

Run 3: Report of Vivace-latency — Data Link

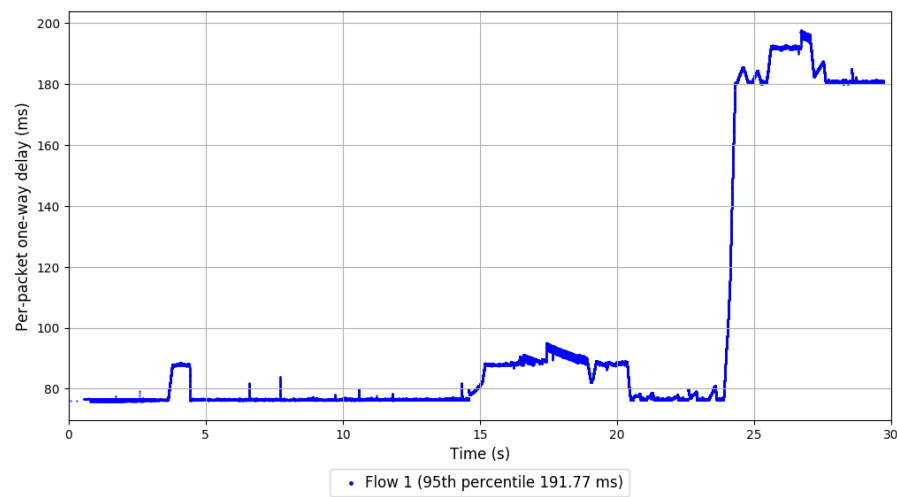
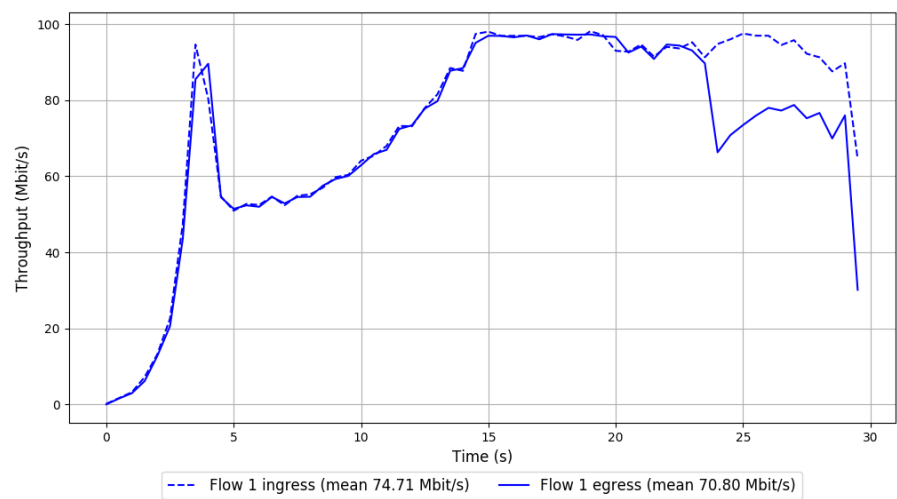


Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 10:33:08
End at: 2018-04-10 10:33:38
Local clock offset: 1.907 ms
Remote clock offset: -13.298 ms

Below is generated by plot.py at 2018-04-10 17:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.80 Mbit/s
95th percentile per-packet one-way delay: 191.771 ms
Loss rate: 5.97%
-- Flow 1:
Average throughput: 70.80 Mbit/s
95th percentile per-packet one-way delay: 191.771 ms
Loss rate: 5.97%

Run 4: Report of Vivace-latency — Data Link

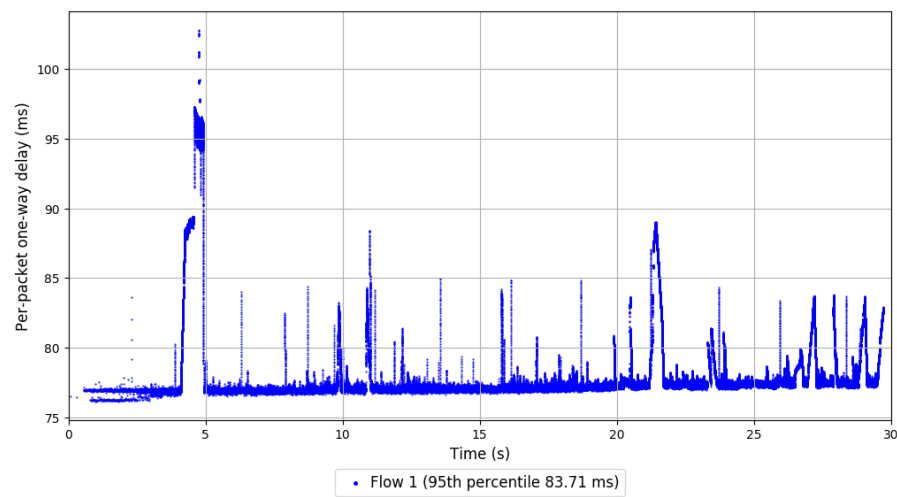
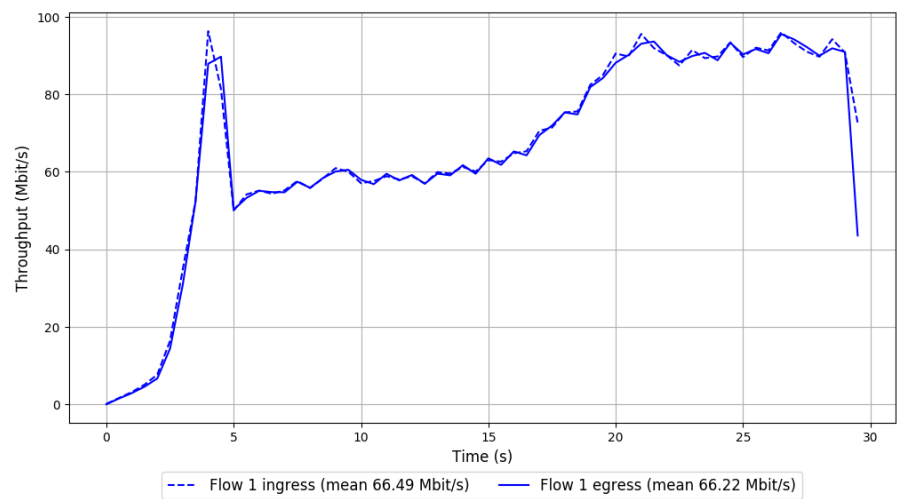


Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 11:00:06
End at: 2018-04-10 11:00:36
Local clock offset: 2.019 ms
Remote clock offset: 15.805 ms

Below is generated by plot.py at 2018-04-10 17:29:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.22 Mbit/s
95th percentile per-packet one-way delay: 83.709 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 66.22 Mbit/s
95th percentile per-packet one-way delay: 83.709 ms
Loss rate: 1.16%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 11:25:26

End at: 2018-04-10 11:25:56

Local clock offset: 12.373 ms

Remote clock offset: 6.408 ms

Below is generated by plot.py at 2018-04-10 17:30:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.12 Mbit/s

95th percentile per-packet one-way delay: 91.529 ms

Loss rate: 0.97%

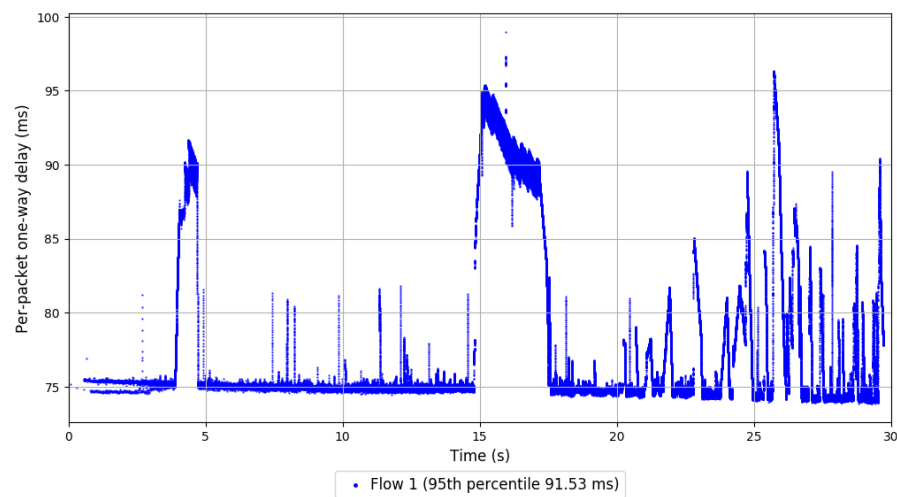
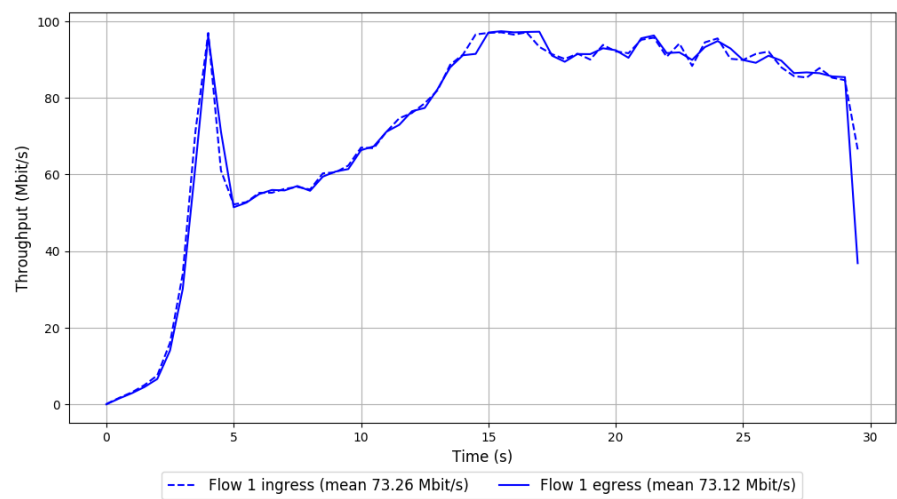
-- Flow 1:

Average throughput: 73.12 Mbit/s

95th percentile per-packet one-way delay: 91.529 ms

Loss rate: 0.97%

Run 6: Report of Vivace-latency — Data Link

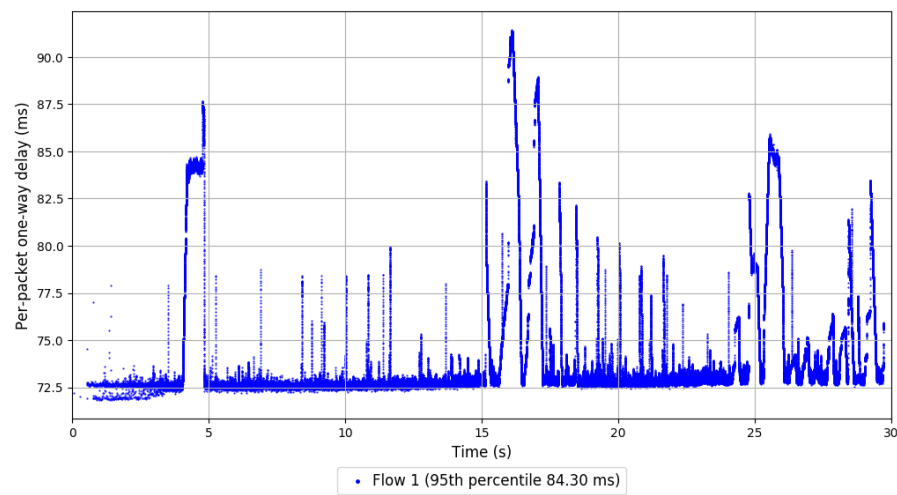
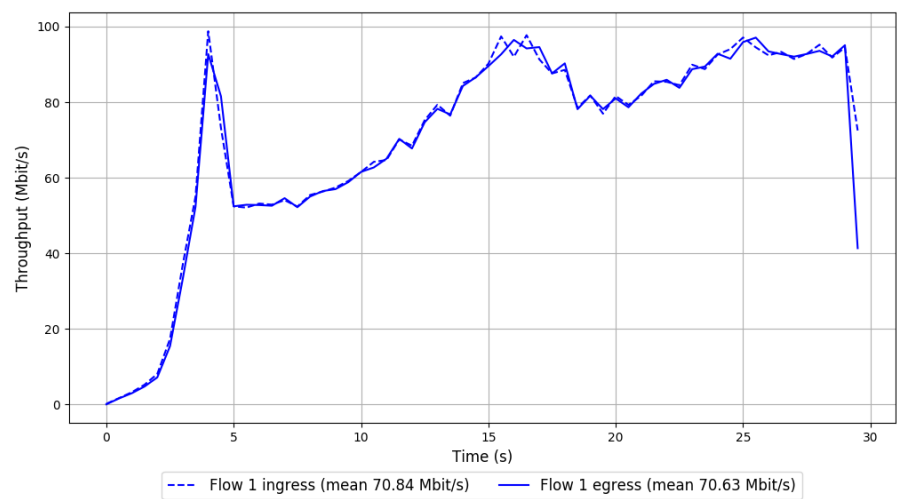


Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 11:50:13
End at: 2018-04-10 11:50:44
Local clock offset: 37.076 ms
Remote clock offset: -1.583 ms

Below is generated by plot.py at 2018-04-10 17:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.63 Mbit/s
95th percentile per-packet one-way delay: 84.301 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 70.63 Mbit/s
95th percentile per-packet one-way delay: 84.301 ms
Loss rate: 1.06%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-10 12:14:48

End at: 2018-04-10 12:15:18

Local clock offset: 48.156 ms

Remote clock offset: 5.61 ms

Below is generated by plot.py at 2018-04-10 17:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 74.072 ms

Loss rate: 2.64%

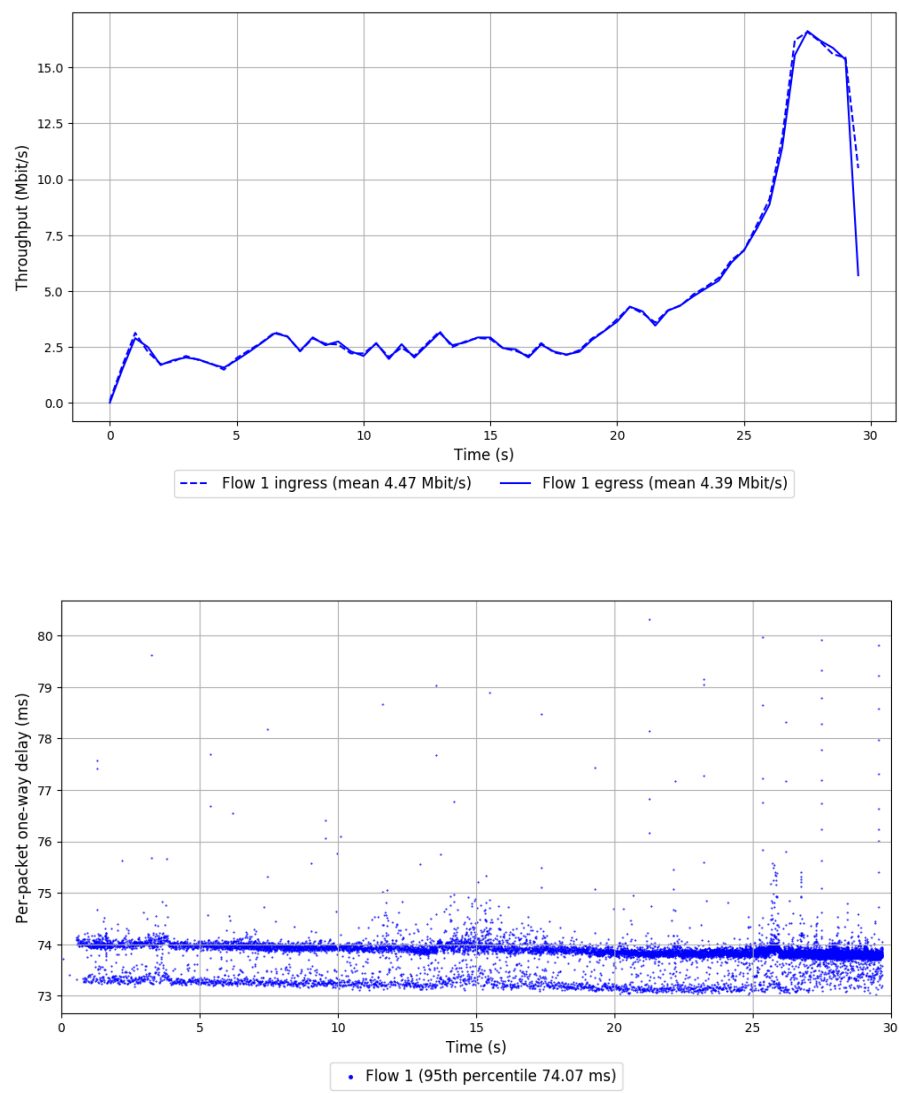
-- Flow 1:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 74.072 ms

Loss rate: 2.64%

Run 8: Report of Vivace-latency — Data Link

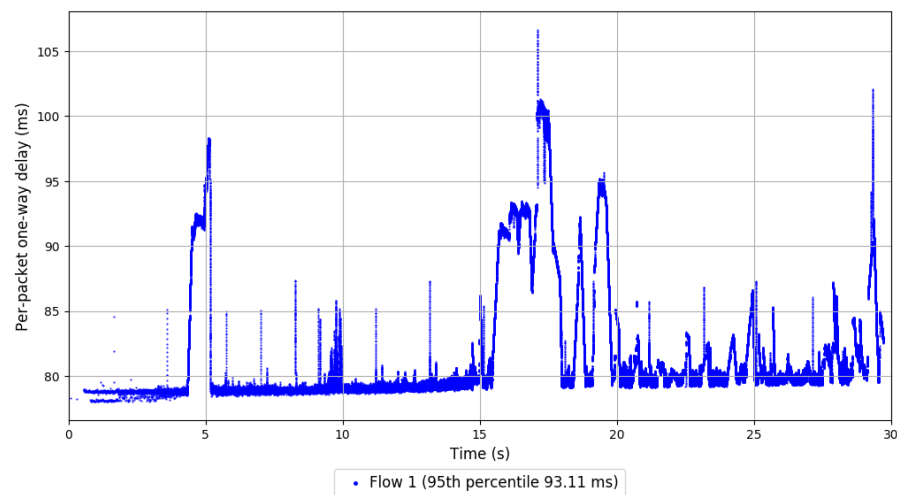
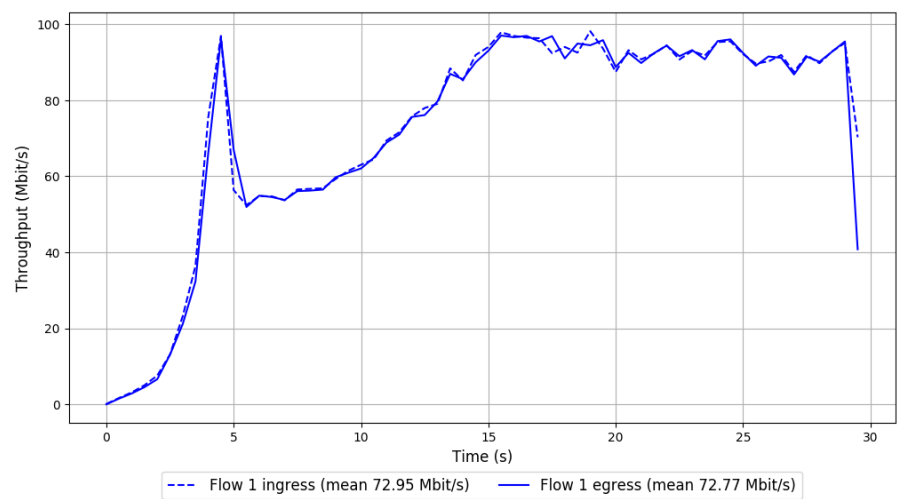


Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 12:39:25
End at: 2018-04-10 12:39:55
Local clock offset: 34.91 ms
Remote clock offset: 15.869 ms

Below is generated by plot.py at 2018-04-10 17:30:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.77 Mbit/s
95th percentile per-packet one-way delay: 93.114 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 72.77 Mbit/s
95th percentile per-packet one-way delay: 93.114 ms
Loss rate: 1.03%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 13:04:19

End at: 2018-04-10 13:04:49

Local clock offset: 24.262 ms

Remote clock offset: 9.496 ms

Below is generated by plot.py at 2018-04-10 17:30:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 83.529 ms

Loss rate: 1.02%

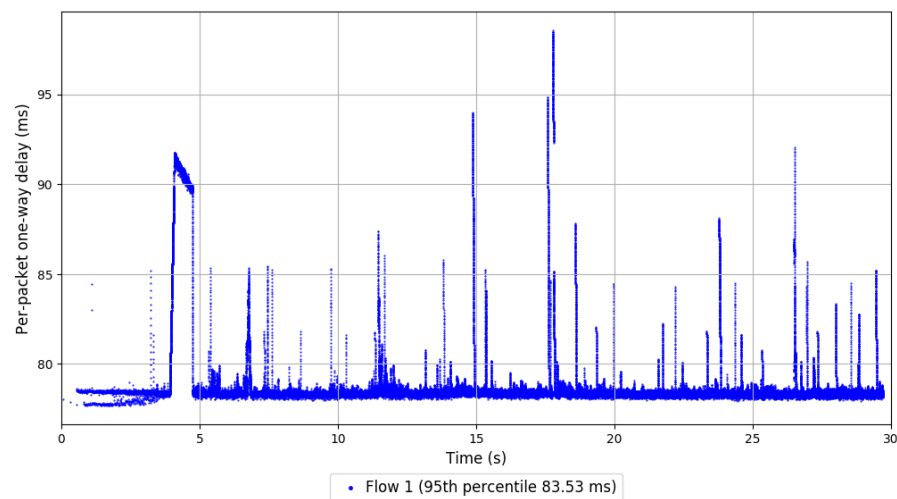
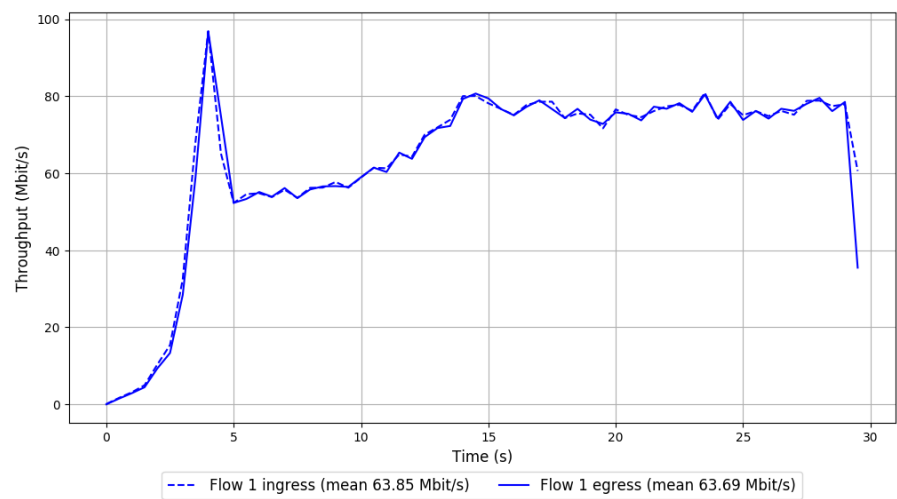
-- Flow 1:

Average throughput: 63.69 Mbit/s

95th percentile per-packet one-way delay: 83.529 ms

Loss rate: 1.02%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 09:06:03

End at: 2018-04-10 09:06:33

Local clock offset: 2.116 ms

Remote clock offset: 9.959 ms

Below is generated by plot.py at 2018-04-10 17:30:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 98.011 ms

Loss rate: 1.18%

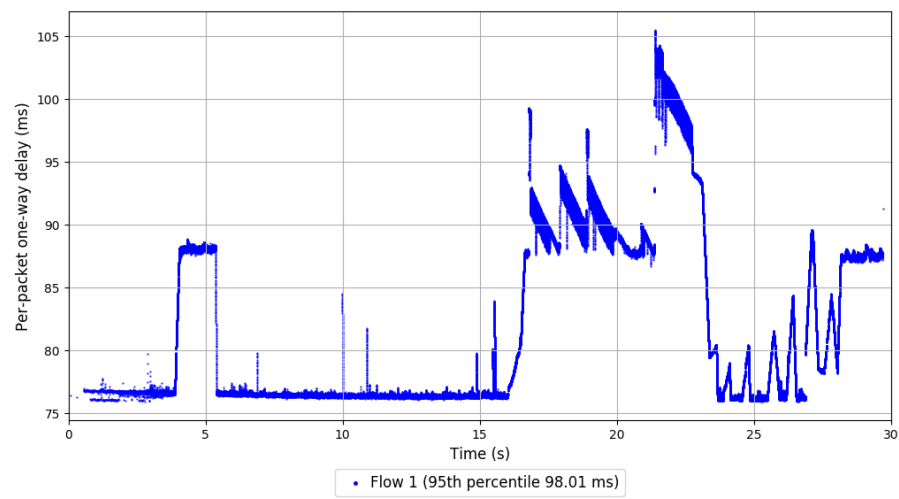
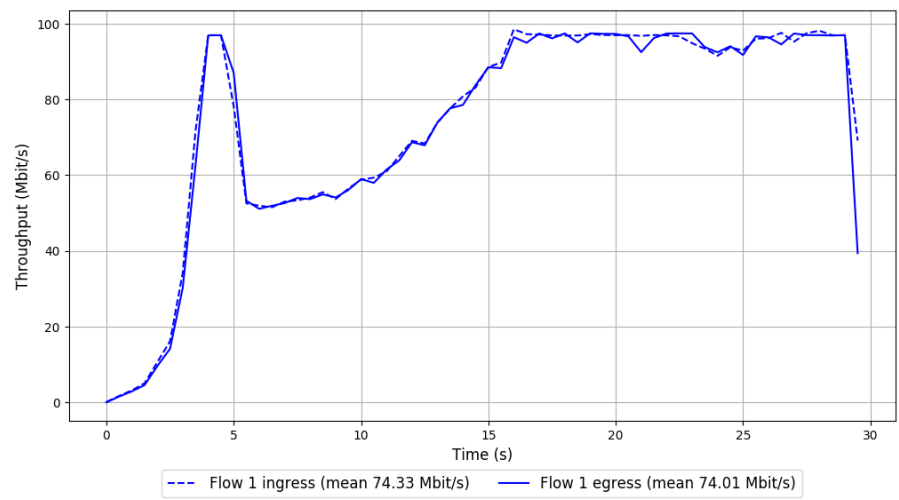
-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 98.011 ms

Loss rate: 1.18%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 09:32:02

End at: 2018-04-10 09:32:32

Local clock offset: 2.406 ms

Remote clock offset: -6.841 ms

Below is generated by plot.py at 2018-04-10 17:30:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 95.103 ms

Loss rate: 1.13%

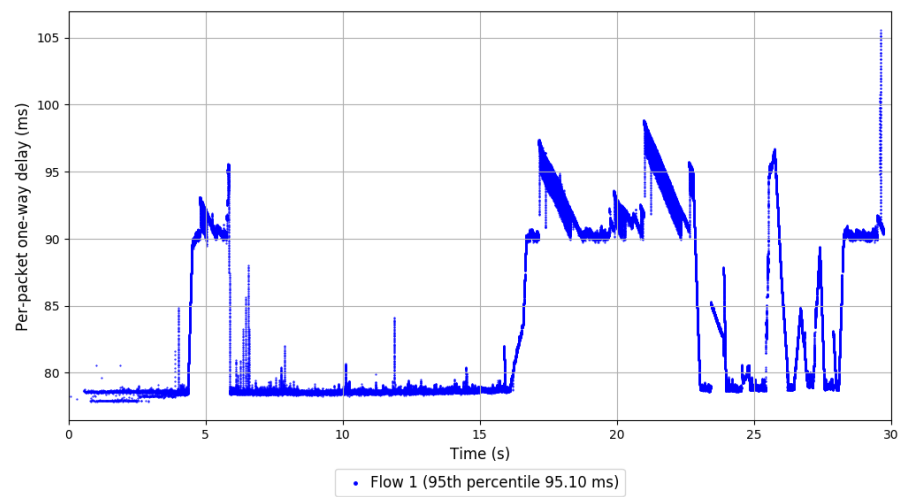
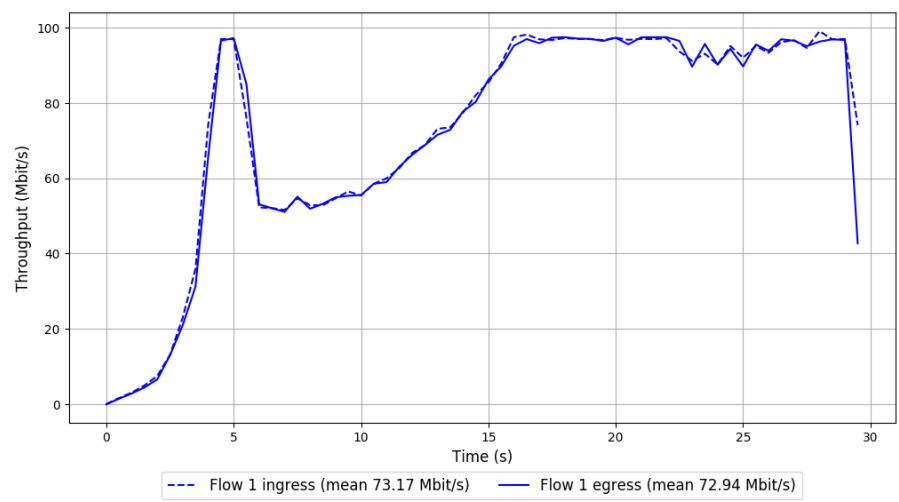
-- Flow 1:

Average throughput: 72.94 Mbit/s

95th percentile per-packet one-way delay: 95.103 ms

Loss rate: 1.13%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 09:56:23

End at: 2018-04-10 09:56:53

Local clock offset: 1.374 ms

Remote clock offset: -6.591 ms

Below is generated by plot.py at 2018-04-10 17:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 104.094 ms

Loss rate: 4.08%

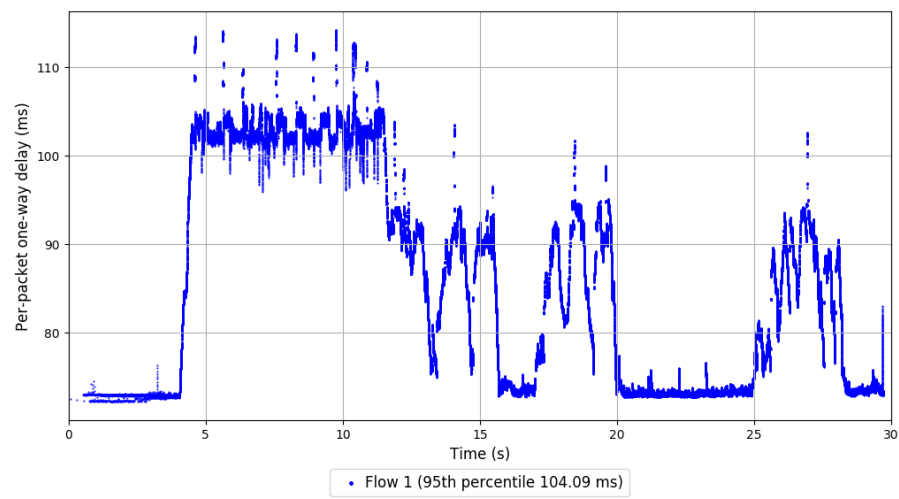
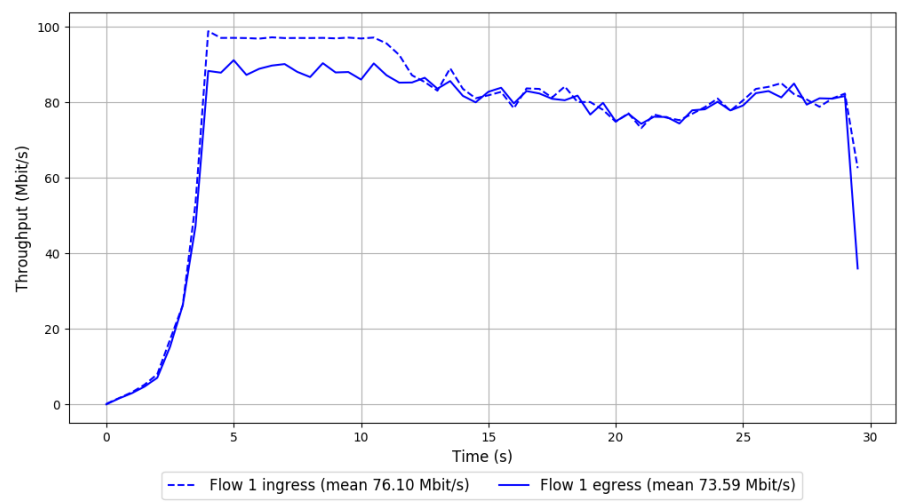
-- Flow 1:

Average throughput: 73.59 Mbit/s

95th percentile per-packet one-way delay: 104.094 ms

Loss rate: 4.08%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 10:22:08

End at: 2018-04-10 10:22:38

Local clock offset: 1.627 ms

Remote clock offset: -11.24 ms

Below is generated by plot.py at 2018-04-10 17:30:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.10 Mbit/s

95th percentile per-packet one-way delay: 94.493 ms

Loss rate: 1.07%

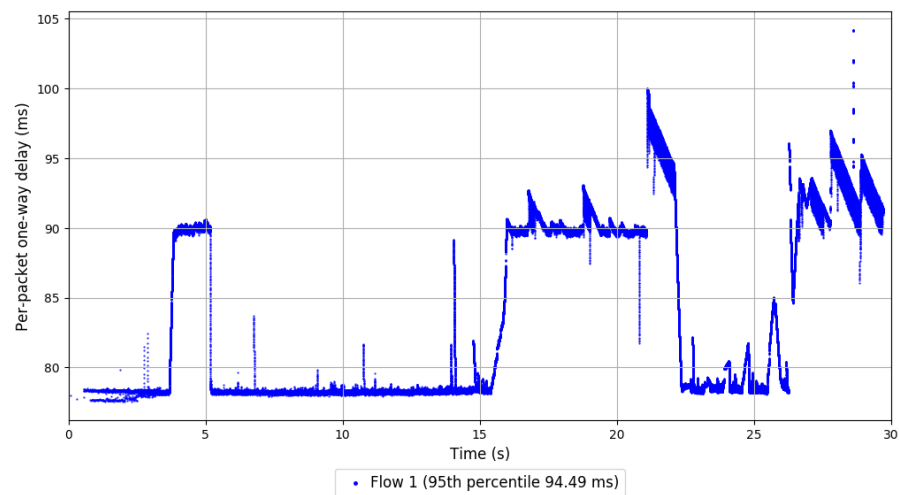
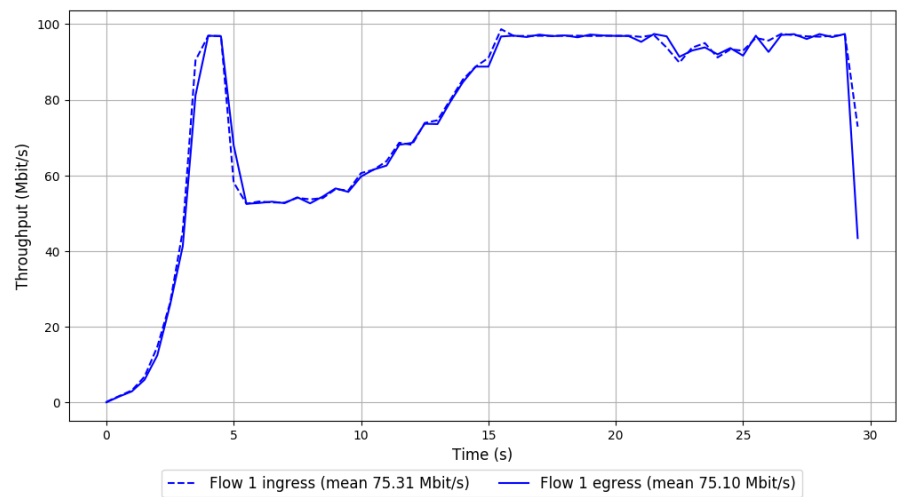
-- Flow 1:

Average throughput: 75.10 Mbit/s

95th percentile per-packet one-way delay: 94.493 ms

Loss rate: 1.07%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 10:49:07

End at: 2018-04-10 10:49:37

Local clock offset: 1.892 ms

Remote clock offset: 4.857 ms

Below is generated by plot.py at 2018-04-10 17:31:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 95.558 ms

Loss rate: 1.12%

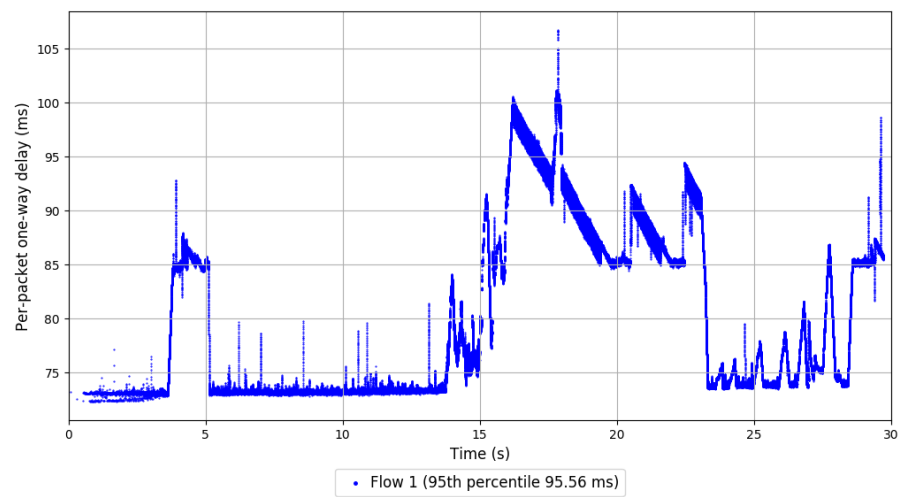
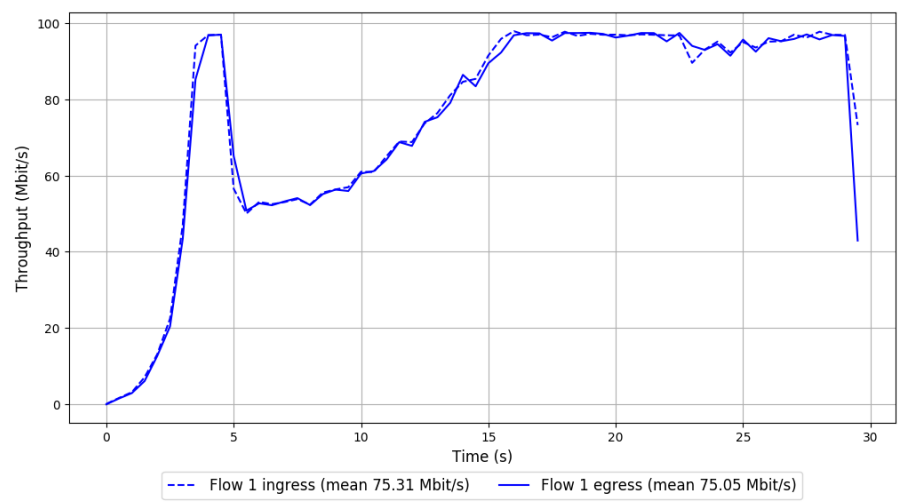
-- Flow 1:

Average throughput: 75.05 Mbit/s

95th percentile per-packet one-way delay: 95.558 ms

Loss rate: 1.12%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 11:13:53

End at: 2018-04-10 11:14:23

Local clock offset: 2.017 ms

Remote clock offset: 22.358 ms

Below is generated by plot.py at 2018-04-10 17:31:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 92.746 ms

Loss rate: 1.10%

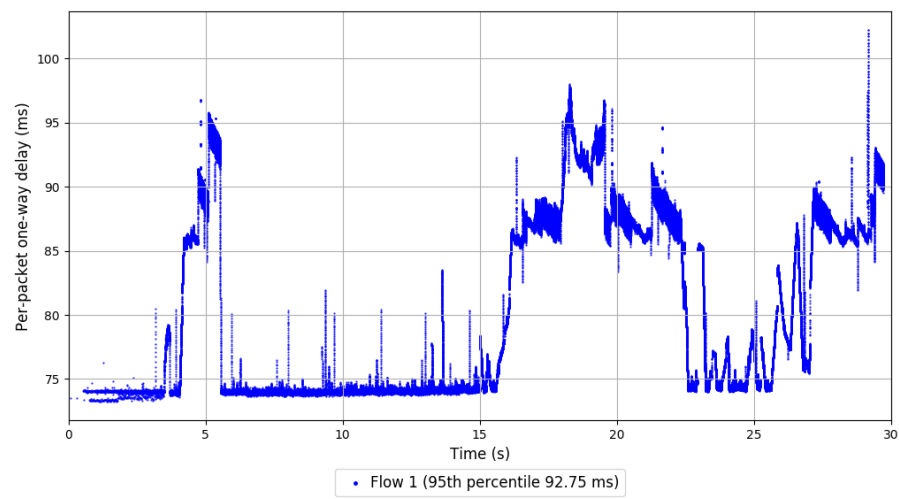
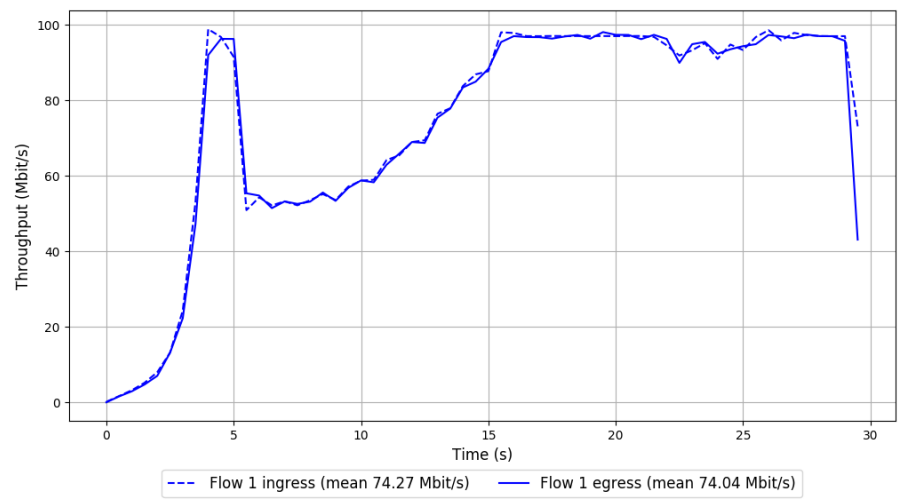
-- Flow 1:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 92.746 ms

Loss rate: 1.10%

Run 6: Report of Vivace-loss — Data Link

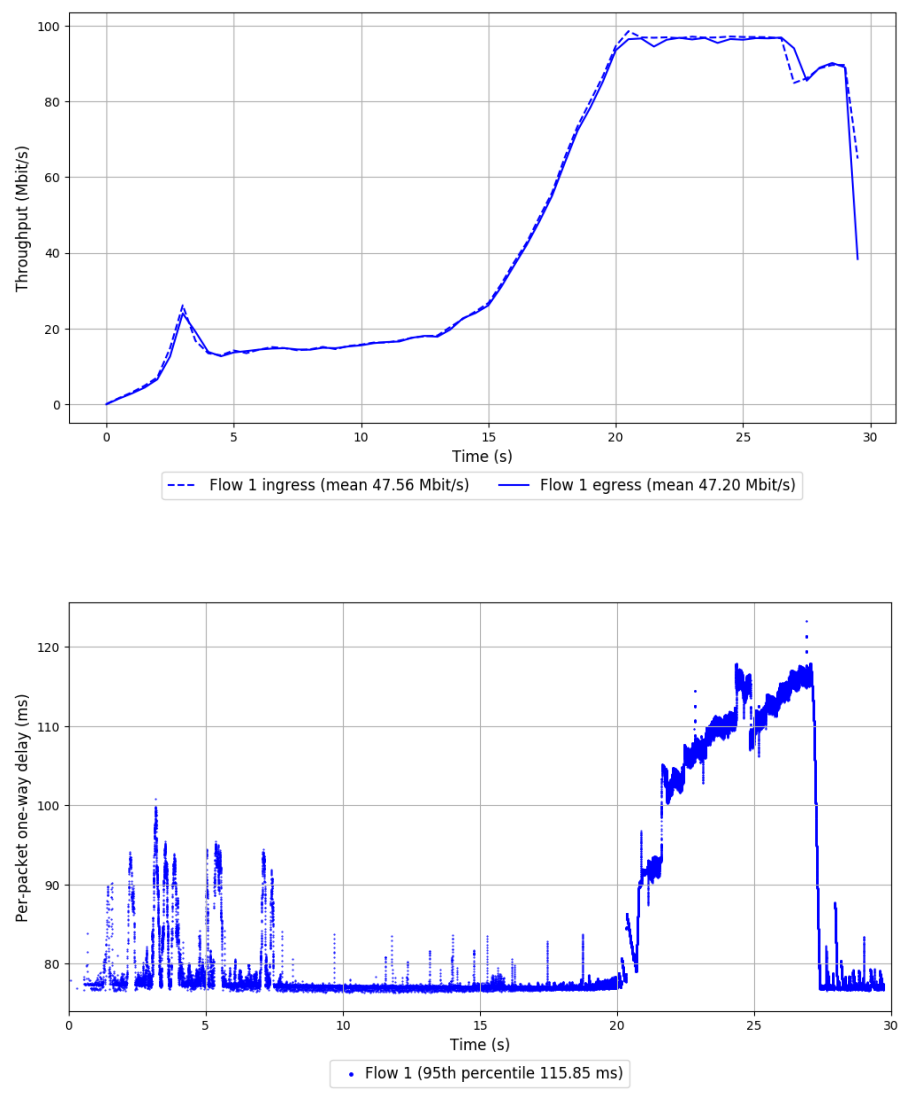


Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 11:38:50
End at: 2018-04-10 11:39:20
Local clock offset: 29.687 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2018-04-10 17:31:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.20 Mbit/s
95th percentile per-packet one-way delay: 115.854 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 47.20 Mbit/s
95th percentile per-packet one-way delay: 115.854 ms
Loss rate: 1.56%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 12:03:42

End at: 2018-04-10 12:04:12

Local clock offset: 43.49 ms

Remote clock offset: 4.603 ms

Below is generated by plot.py at 2018-04-10 17:31:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 120.589 ms

Loss rate: 2.78%

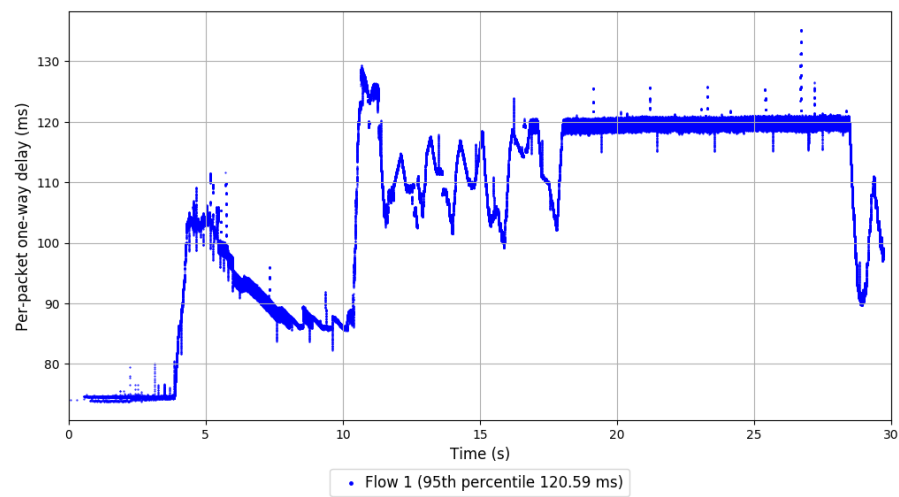
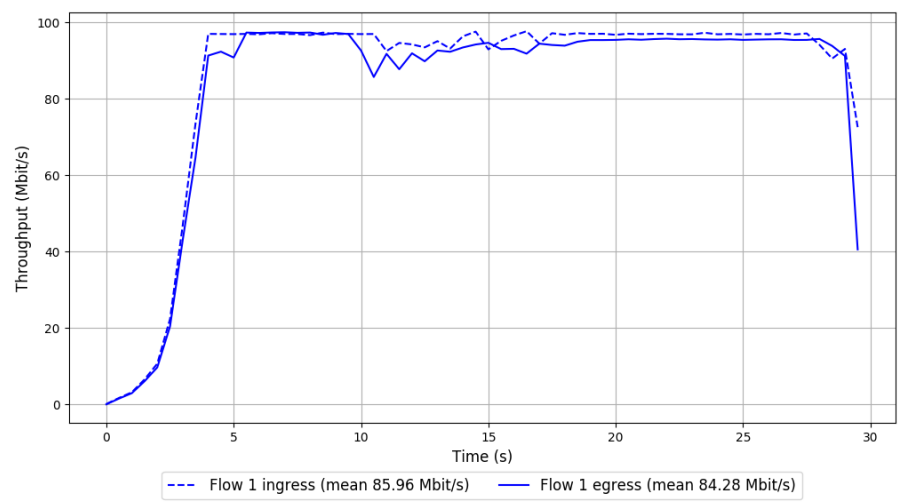
-- Flow 1:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 120.589 ms

Loss rate: 2.78%

Run 8: Report of Vivace-loss — Data Link

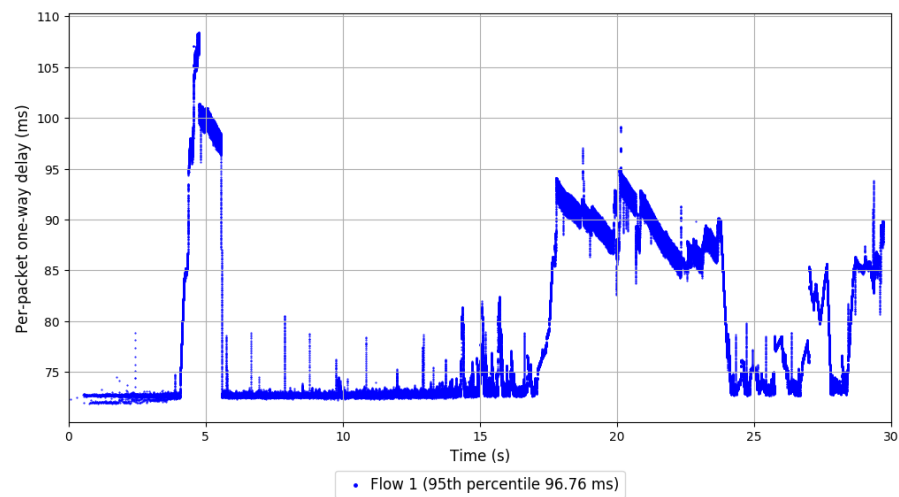
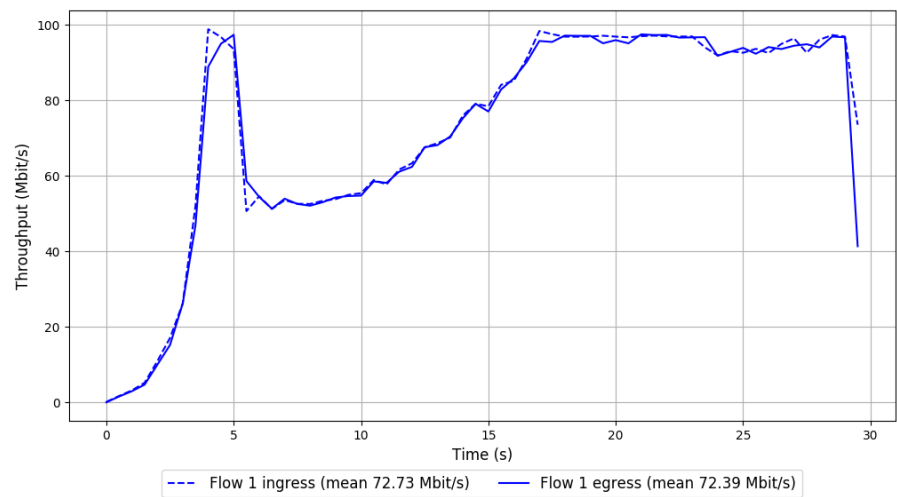


Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 12:28:09
End at: 2018-04-10 12:28:39
Local clock offset: 53.988 ms
Remote clock offset: 10.451 ms

Below is generated by plot.py at 2018-04-10 17:31:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.39 Mbit/s
95th percentile per-packet one-way delay: 96.764 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 72.39 Mbit/s
95th percentile per-packet one-way delay: 96.764 ms
Loss rate: 1.27%

Run 9: Report of Vivace-loss — Data Link

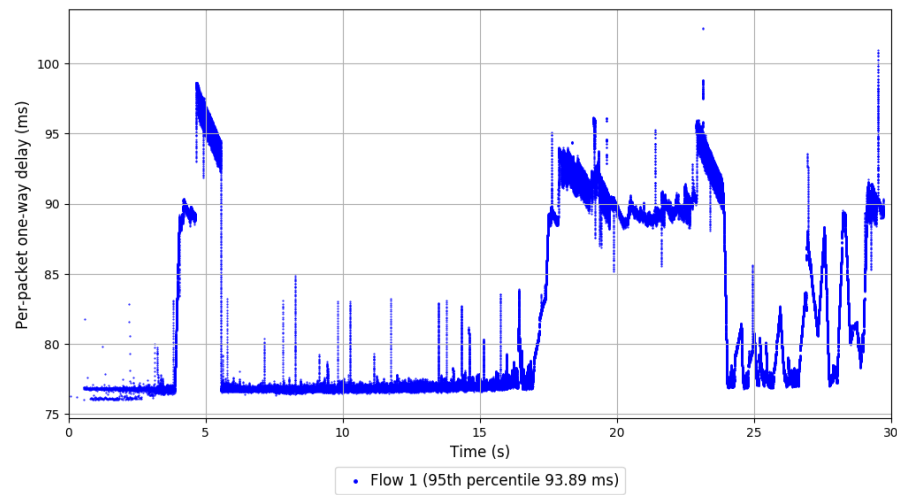
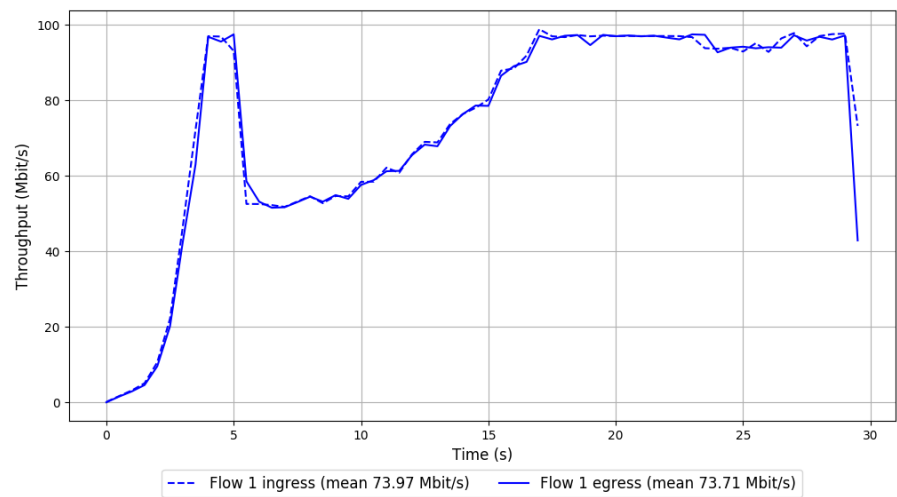


Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 12:53:15
End at: 2018-04-10 12:53:45
Local clock offset: 26.612 ms
Remote clock offset: 19.353 ms

Below is generated by plot.py at 2018-04-10 17:31:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 93.895 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 73.71 Mbit/s
95th percentile per-packet one-way delay: 93.895 ms
Loss rate: 1.14%

Run 10: Report of Vivace-loss — Data Link

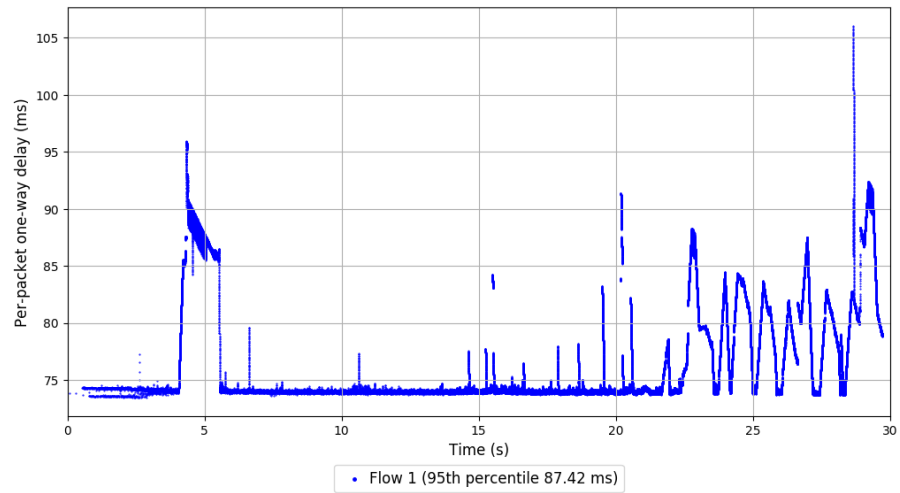
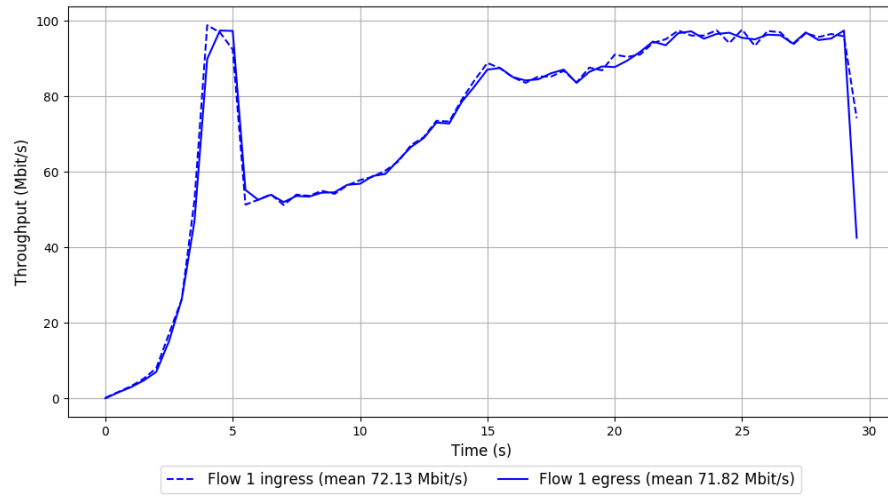


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 09:11:28
End at: 2018-04-10 09:11:58
Local clock offset: 2.438 ms
Remote clock offset: 2.81 ms

# Below is generated by plot.py at 2018-04-10 17:31:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.82 Mbit/s
95th percentile per-packet one-way delay: 87.424 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 71.82 Mbit/s
95th percentile per-packet one-way delay: 87.424 ms
Loss rate: 1.21%
```


Run 1: Report of Vivace-LTE — Data Link

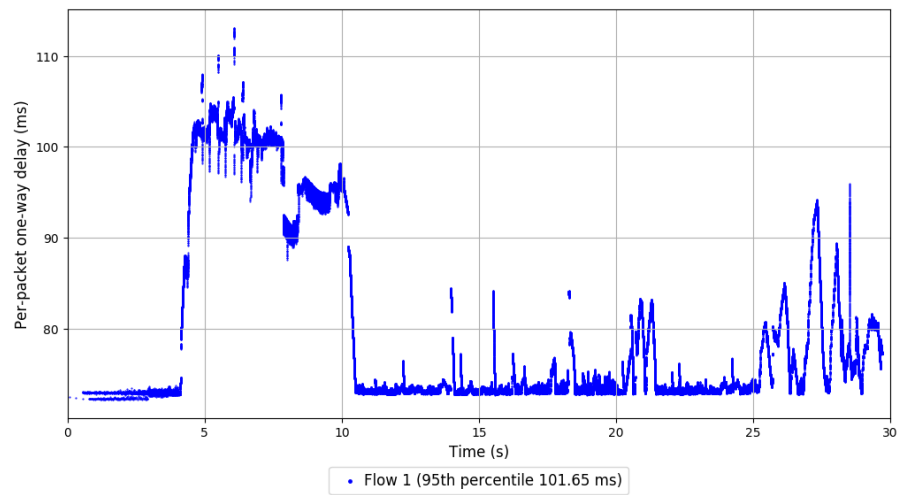
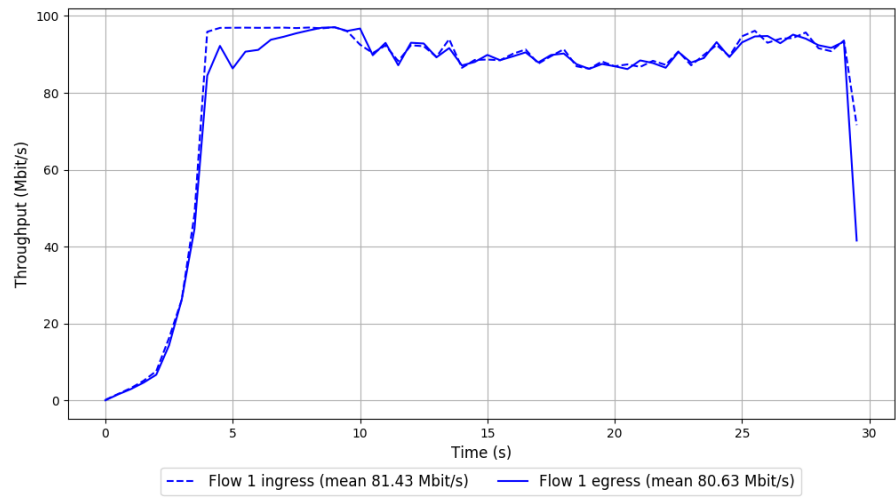


Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 09:37:26
End at: 2018-04-10 09:37:56
Local clock offset: 2.53 ms
Remote clock offset: -5.473 ms

Below is generated by plot.py at 2018-04-10 17:32:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.63 Mbit/s
95th percentile per-packet one-way delay: 101.652 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 80.63 Mbit/s
95th percentile per-packet one-way delay: 101.652 ms
Loss rate: 1.74%

Run 2: Report of Vivace-LTE — Data Link

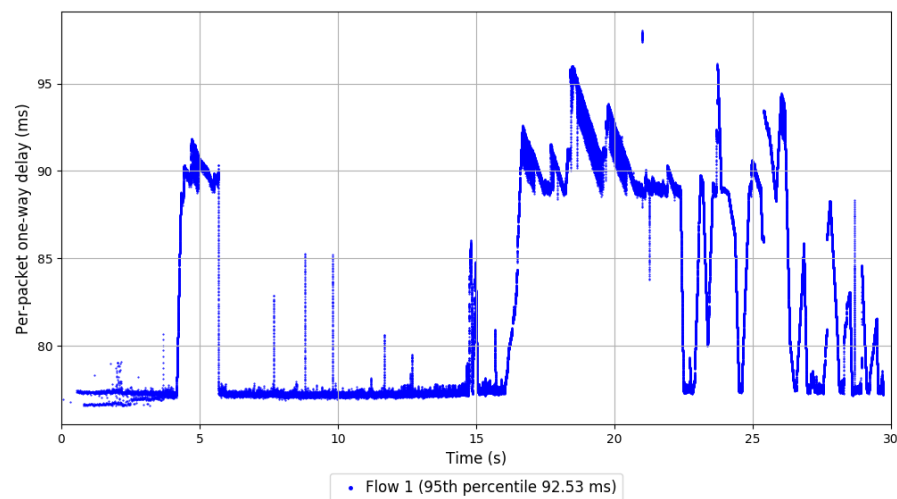
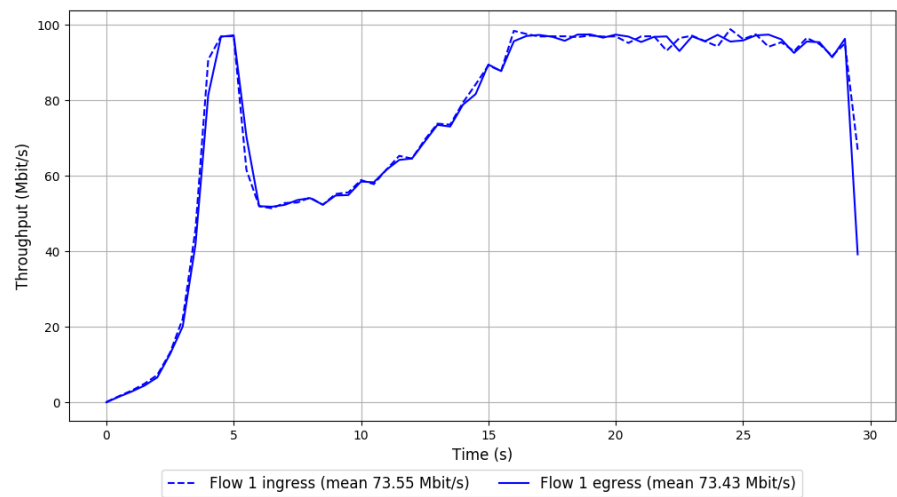


Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 10:01:47
End at: 2018-04-10 10:02:17
Local clock offset: 1.222 ms
Remote clock offset: -7.625 ms

Below is generated by plot.py at 2018-04-10 17:32:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.43 Mbit/s
95th percentile per-packet one-way delay: 92.534 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 73.43 Mbit/s
95th percentile per-packet one-way delay: 92.534 ms
Loss rate: 0.95%

Run 3: Report of Vivace-LTE — Data Link

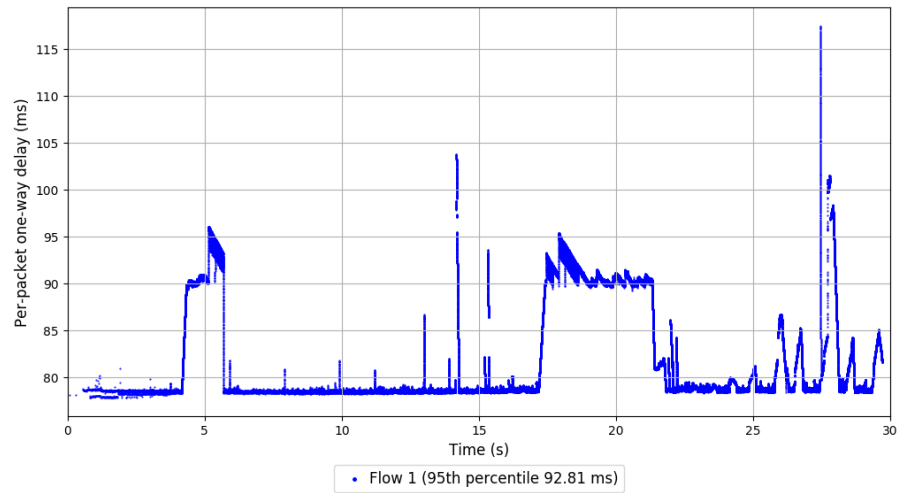
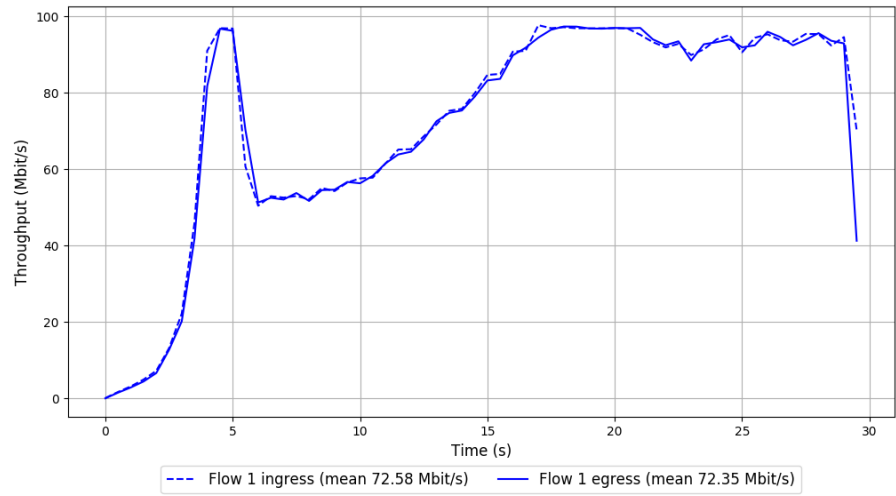


Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 10:27:36
End at: 2018-04-10 10:28:06
Local clock offset: 1.905 ms
Remote clock offset: -12.343 ms

Below is generated by plot.py at 2018-04-10 17:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 92.808 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 92.808 ms
Loss rate: 1.11%

Run 4: Report of Vivace-LTE — Data Link

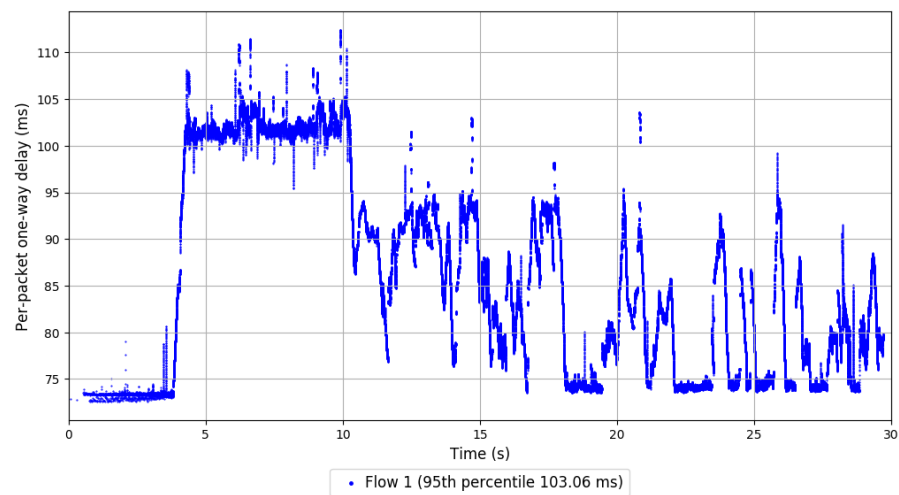
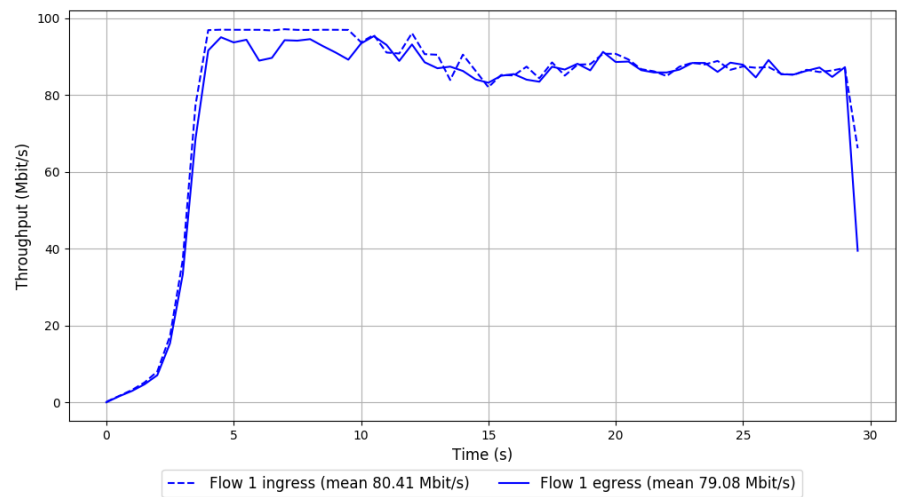


Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 10:54:31
End at: 2018-04-10 10:55:01
Local clock offset: 1.892 ms
Remote clock offset: 11.457 ms

Below is generated by plot.py at 2018-04-10 17:32:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 103.055 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 79.08 Mbit/s
95th percentile per-packet one-way delay: 103.055 ms
Loss rate: 2.44%

Run 5: Report of Vivace-LTE — Data Link

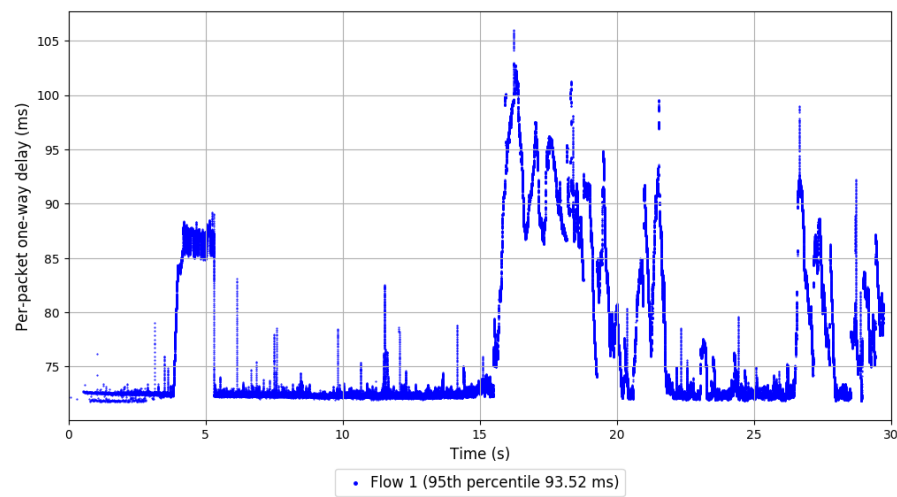
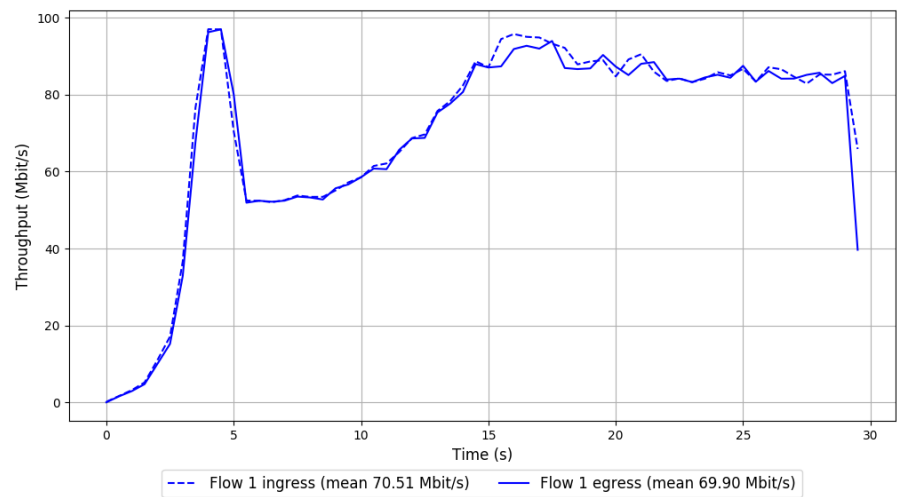


Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 11:19:27
End at: 2018-04-10 11:19:57
Local clock offset: 1.868 ms
Remote clock offset: 13.559 ms

Below is generated by plot.py at 2018-04-10 17:32:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.90 Mbit/s
95th percentile per-packet one-way delay: 93.519 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 69.90 Mbit/s
95th percentile per-packet one-way delay: 93.519 ms
Loss rate: 1.66%

Run 6: Report of Vivace-LTE — Data Link

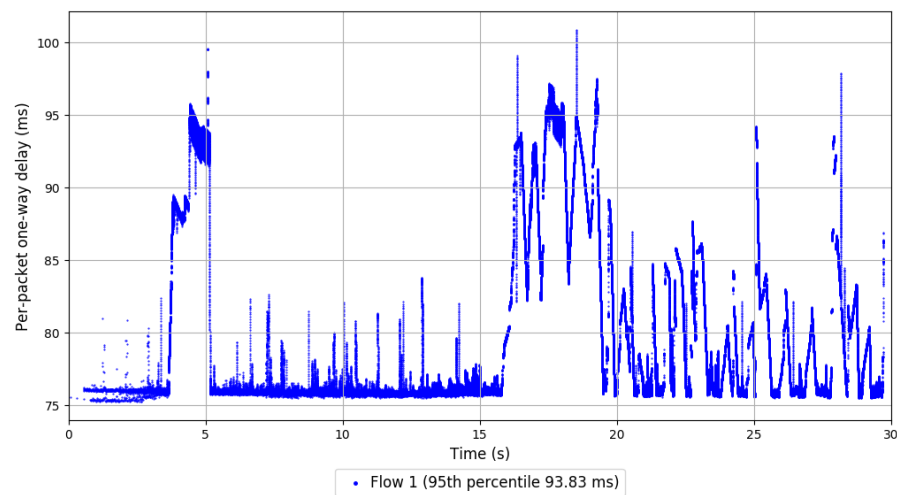
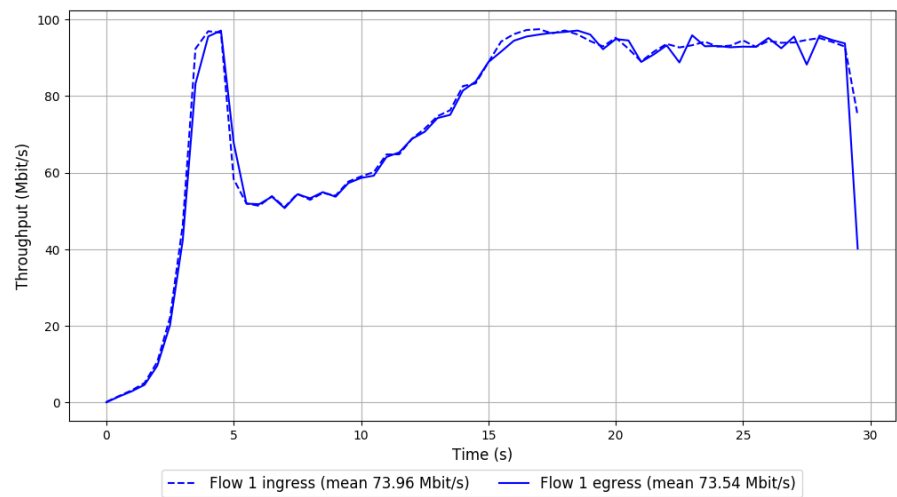


Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 11:44:12
End at: 2018-04-10 11:44:42
Local clock offset: 33.343 ms
Remote clock offset: -1.621 ms

Below is generated by plot.py at 2018-04-10 17:32:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.54 Mbit/s
95th percentile per-packet one-way delay: 93.835 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 73.54 Mbit/s
95th percentile per-packet one-way delay: 93.835 ms
Loss rate: 1.38%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 12:09:06

End at: 2018-04-10 12:09:36

Local clock offset: 45.795 ms

Remote clock offset: 5.239 ms

Below is generated by plot.py at 2018-04-10 17:32:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 93.517 ms

Loss rate: 1.30%

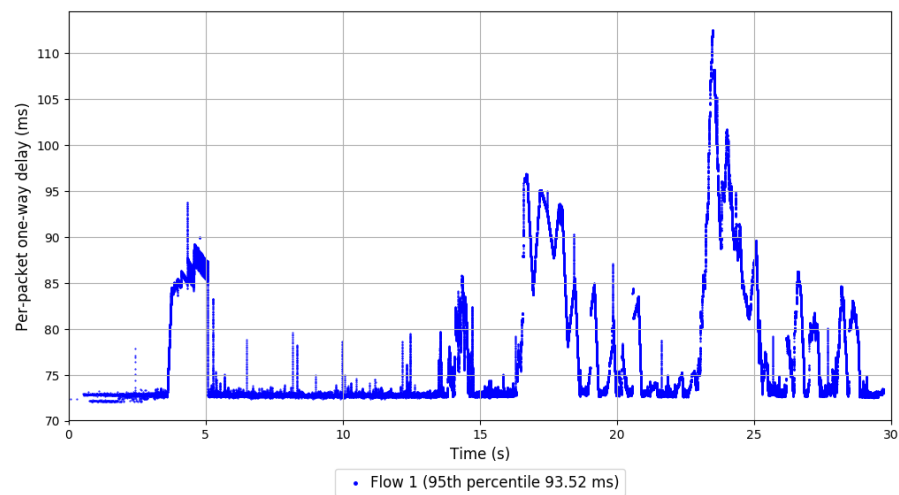
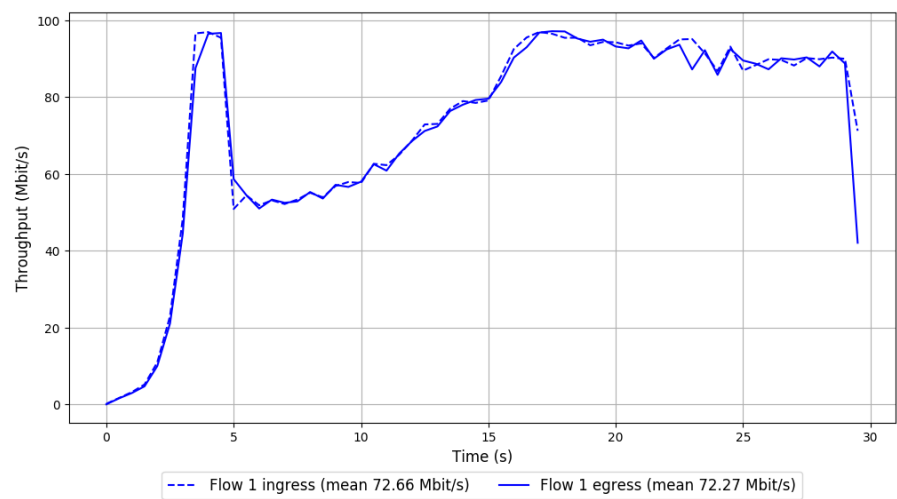
-- Flow 1:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 93.517 ms

Loss rate: 1.30%

Run 8: Report of Vivace-LTE — Data Link

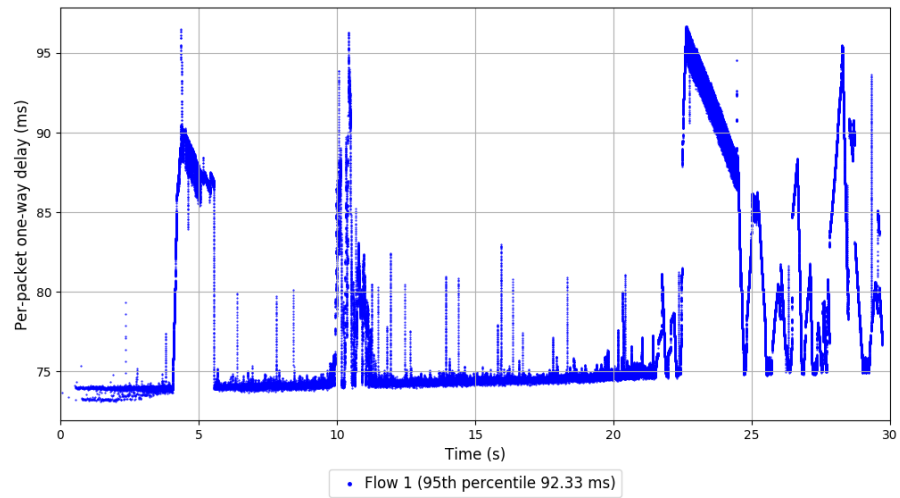
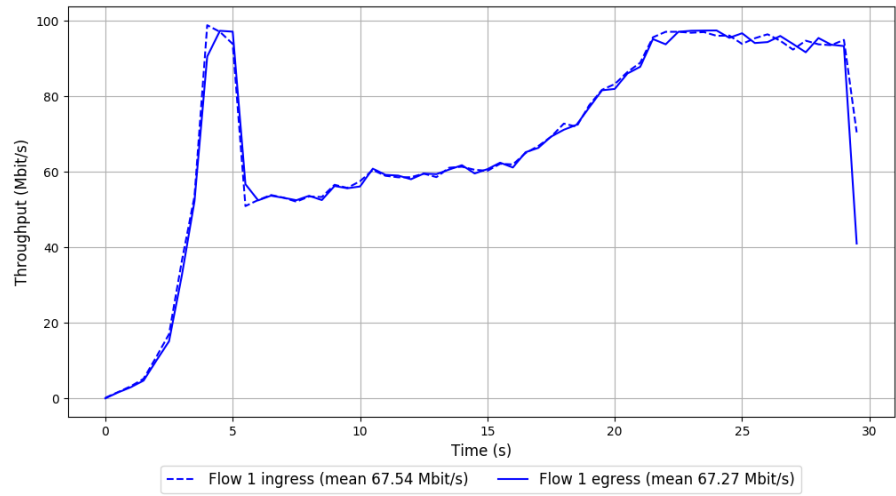


Run 9: Statistics of Vivace-LTE

Start at: 2018-04-10 12:33:46
End at: 2018-04-10 12:34:16
Local clock offset: 43.774 ms
Remote clock offset: 13.732 ms

Below is generated by plot.py at 2018-04-10 17:32:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 67.27 Mbit/s
95th percentile per-packet one-way delay: 92.335 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 67.27 Mbit/s
95th percentile per-packet one-way delay: 92.335 ms
Loss rate: 1.17%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 12:58:45
End at: 2018-04-10 12:59:15
Local clock offset: 25.412 ms
Remote clock offset: 17.387 ms

Below is generated by plot.py at 2018-04-10 17:32:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.29 Mbit/s
95th percentile per-packet one-way delay: 105.113 ms
Loss rate: 2.60%
-- Flow 1:
Average throughput: 78.29 Mbit/s
95th percentile per-packet one-way delay: 105.113 ms
Loss rate: 2.60%

Run 10: Report of Vivace-LTE — Data Link

