

Pantheon Report

Generated at 2018-03-15 05:23:53 (UTC).

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

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).

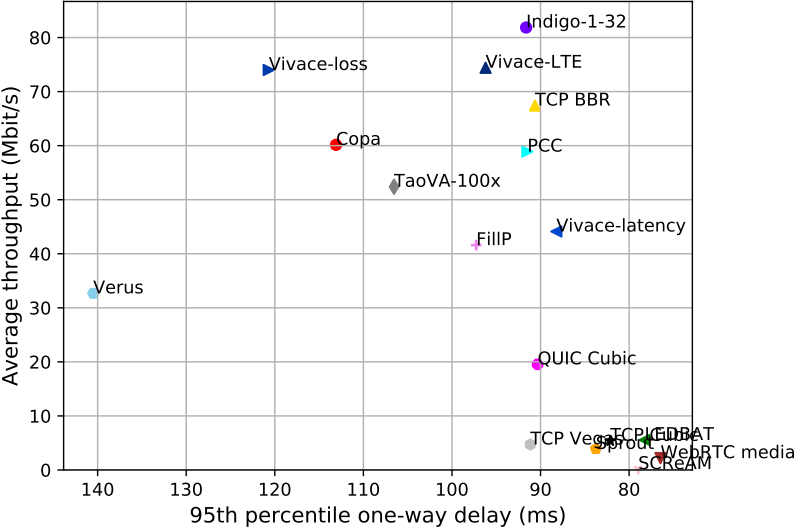
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

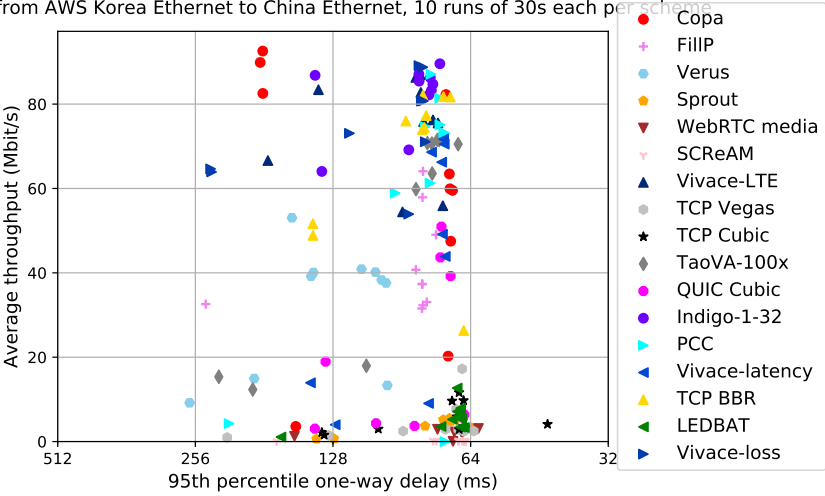
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ce90f281d1c69ae1a5c6
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS Korea Ethernet to China Ethernet, 10 runs of 30s each per scheme



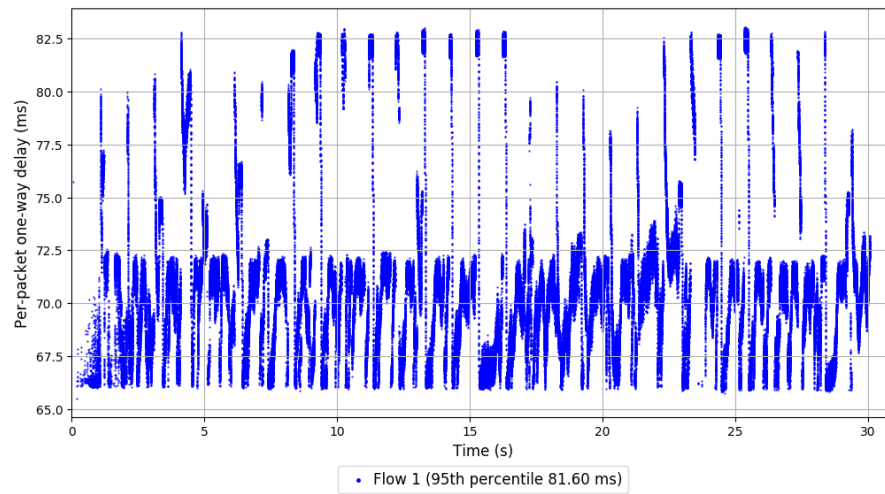
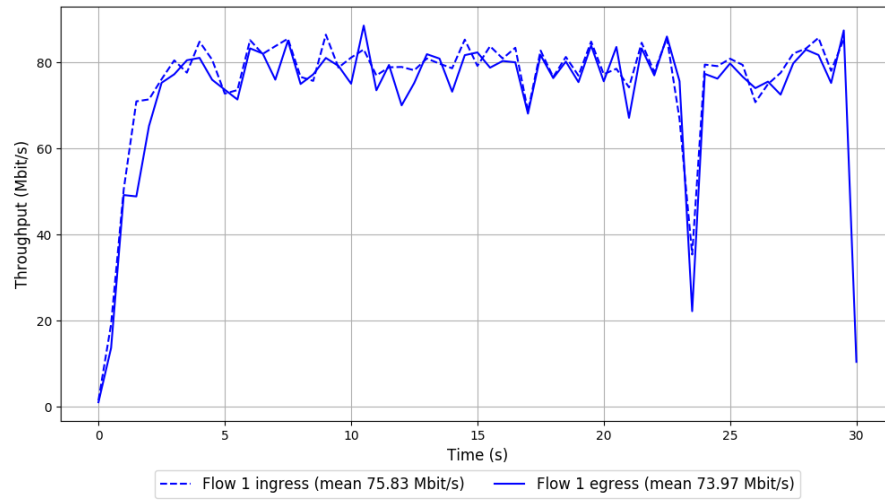
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	67.41	90.63	4.59
TCP Cubic	10	5.39	82.13	0.88
LEDBAT	10	5.55	78.26	0.50
PCC	10	58.90	91.49	1.38
QUIC Cubic	9	19.55	90.34	0.62
SCReAM	10	0.17	78.97	1.03
WebRTC media	10	2.19	76.47	0.27
Sprout	10	3.90	83.76	1.91
TaoVA-100x	10	52.40	106.54	3.51
TCP Vegas	10	4.72	91.16	1.15
Verus	10	32.67	140.51	78.11
Copa	10	60.15	113.09	27.01
FillP	10	41.59	97.26	28.56
Indigo-1-32	10	81.85	91.63	12.88
Vivace-latency	9	44.12	88.22	0.52
Vivace-loss	9	73.99	120.68	2.32
Vivace-LTE	10	74.41	96.21	1.24

Run 1: Statistics of TCP BBR

Start at: 2018-03-15 00:55:59
End at: 2018-03-15 00:56:29
Local clock offset: 0.141 ms
Remote clock offset: 14.053 ms

Below is generated by plot.py at 2018-03-15 05:07:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.97 Mbit/s
95th percentile per-packet one-way delay: 81.598 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 73.97 Mbit/s
95th percentile per-packet one-way delay: 81.598 ms
Loss rate: 2.46%

Run 1: Report of TCP BBR — Data Link

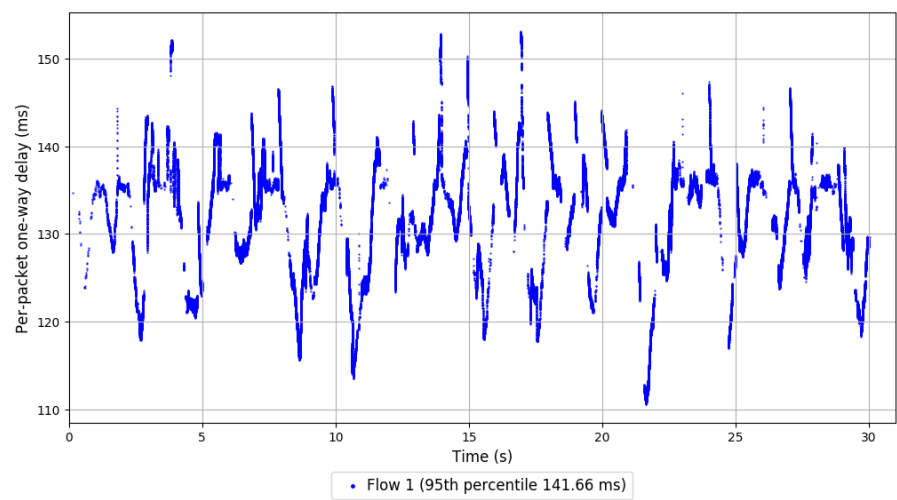
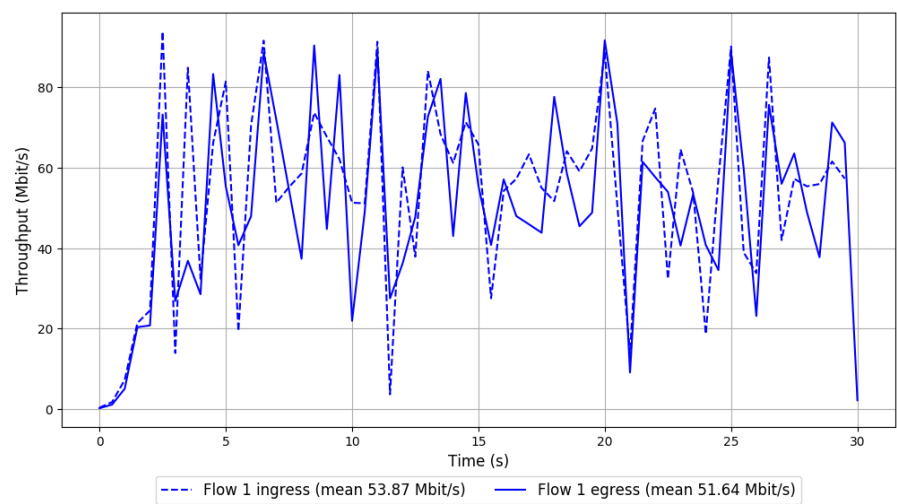


Run 2: Statistics of TCP BBR

Start at: 2018-03-15 01:19:26
End at: 2018-03-15 01:19:56
Local clock offset: -2.216 ms
Remote clock offset: -18.652 ms

Below is generated by plot.py at 2018-03-15 05:07:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.64 Mbit/s
95th percentile per-packet one-way delay: 141.656 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 51.64 Mbit/s
95th percentile per-packet one-way delay: 141.656 ms
Loss rate: 4.15%

Run 2: Report of TCP BBR — Data Link

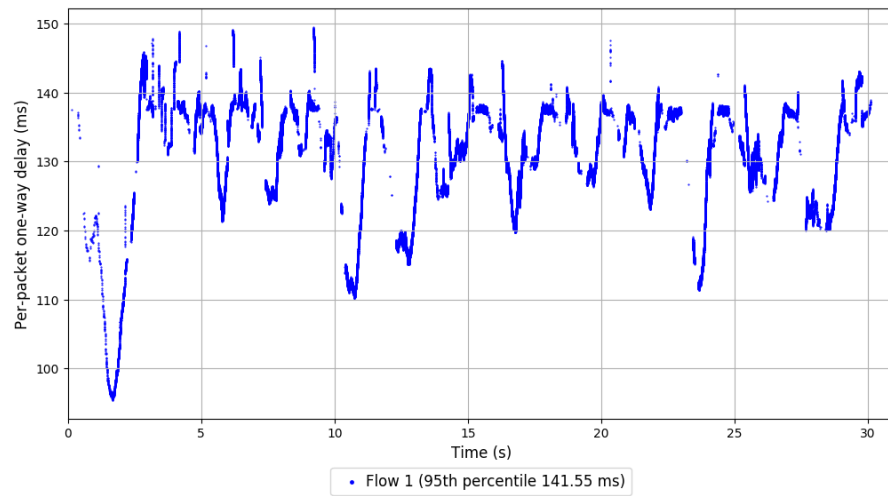
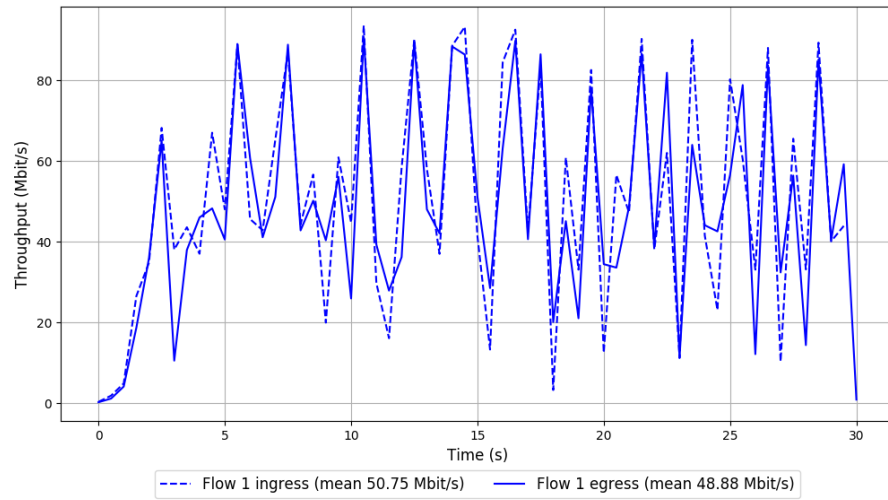


Run 3: Statistics of TCP BBR

Start at: 2018-03-15 01:43:14
End at: 2018-03-15 01:43:44
Local clock offset: -2.569 ms
Remote clock offset: 23.415 ms

Below is generated by plot.py at 2018-03-15 05:07:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.88 Mbit/s
95th percentile per-packet one-way delay: 141.550 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 48.88 Mbit/s
95th percentile per-packet one-way delay: 141.550 ms
Loss rate: 3.69%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-15 02:07:03

End at: 2018-03-15 02:07:33

Local clock offset: 6.433 ms

Remote clock offset: 77.593 ms

Below is generated by plot.py at 2018-03-15 05:07:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 80.820 ms

Loss rate: 4.06%

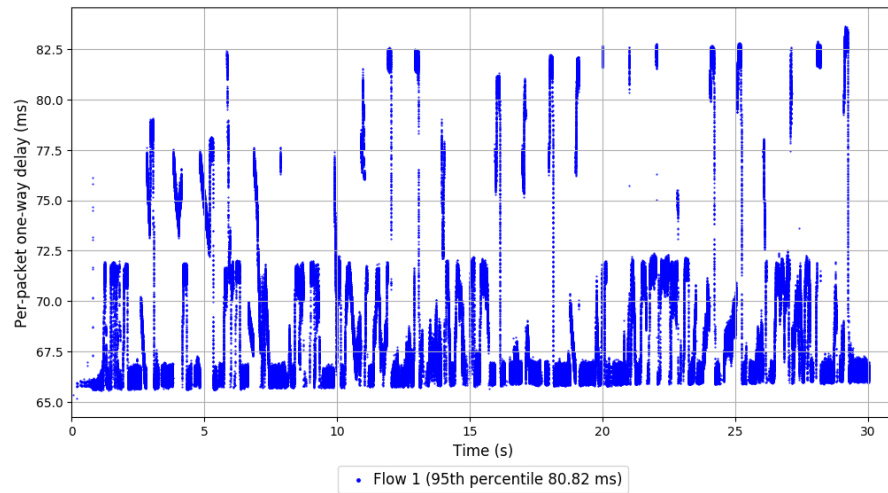
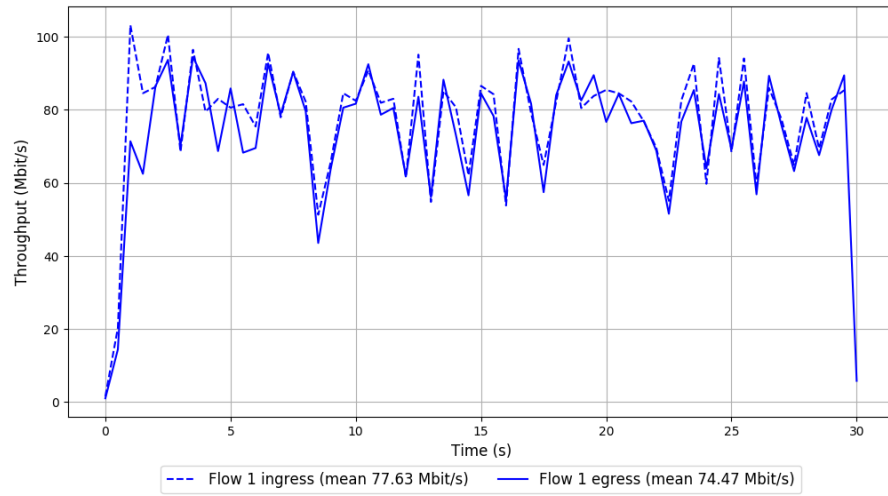
-- Flow 1:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 80.820 ms

Loss rate: 4.06%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-15 02:31:23

End at: 2018-03-15 02:31:54

Local clock offset: 4.111 ms

Remote clock offset: 76.857 ms

Below is generated by plot.py at 2018-03-15 05:08:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.78 Mbit/s

95th percentile per-packet one-way delay: 73.358 ms

Loss rate: 4.01%

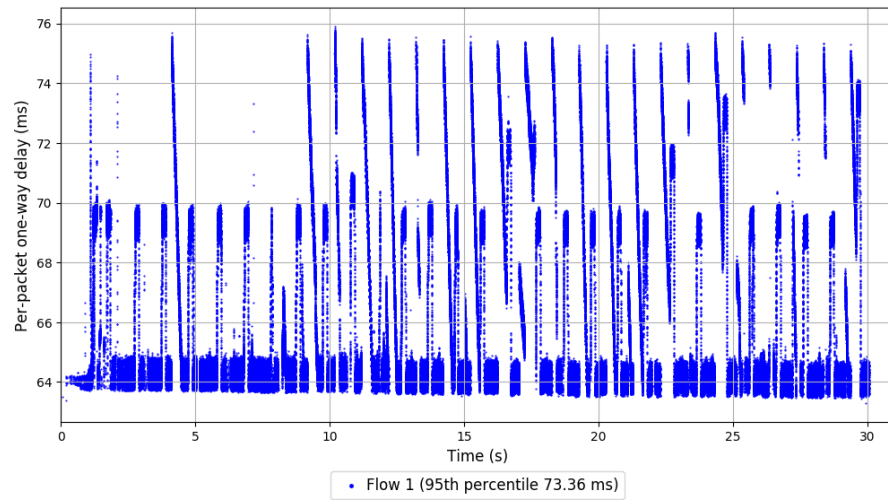
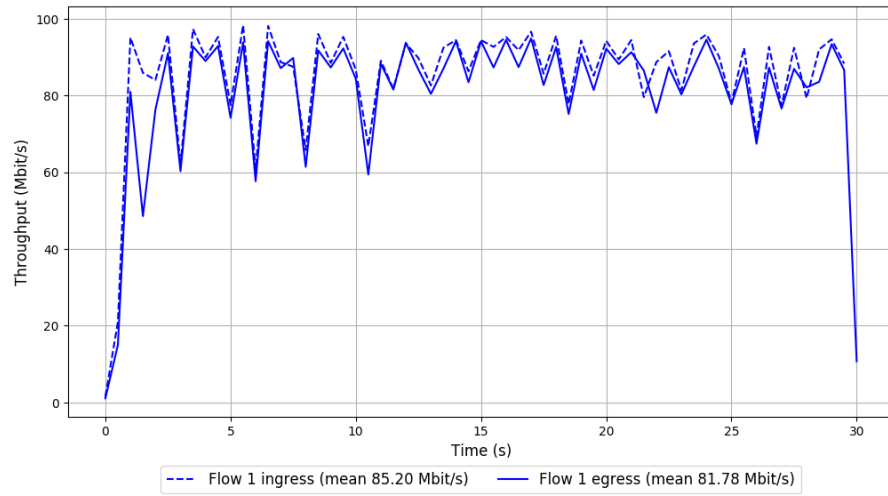
-- Flow 1:

Average throughput: 81.78 Mbit/s

95th percentile per-packet one-way delay: 73.358 ms

Loss rate: 4.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-15 02:54:59

End at: 2018-03-15 02:55:29

Local clock offset: 6.058 ms

Remote clock offset: 87.85 ms

Below is generated by plot.py at 2018-03-15 05:08:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.08 Mbit/s

95th percentile per-packet one-way delay: 81.369 ms

Loss rate: 3.55%

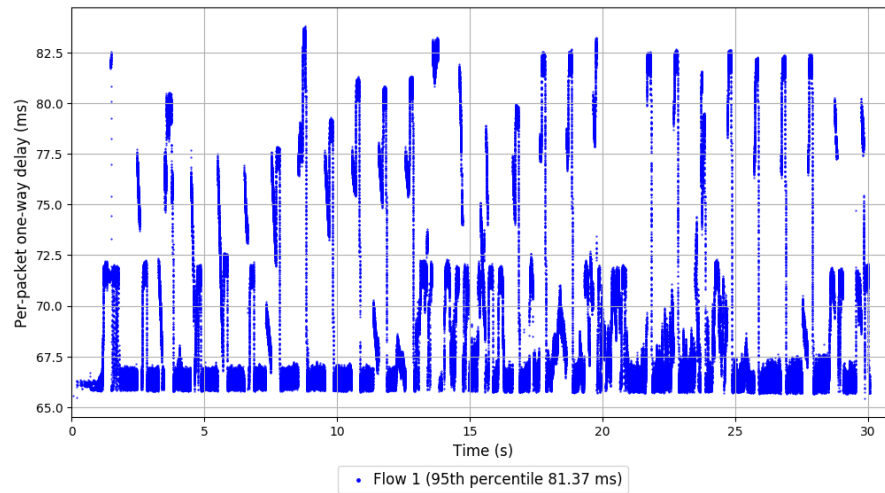
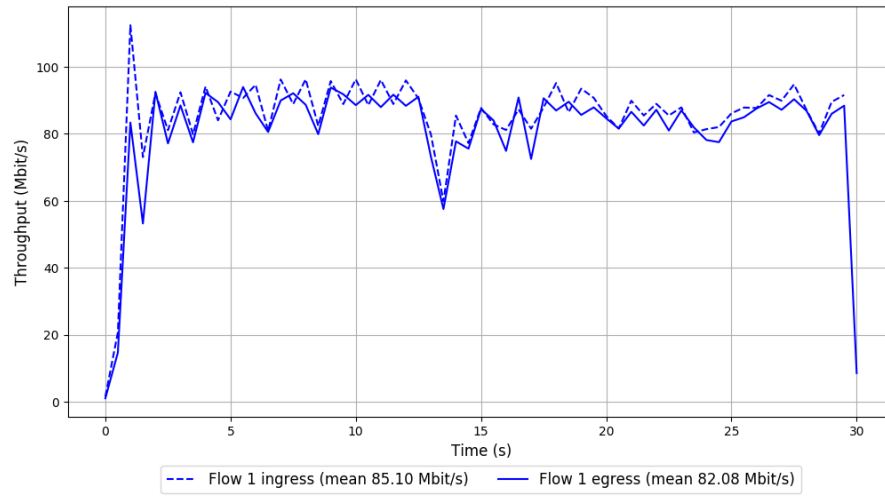
-- Flow 1:

Average throughput: 82.08 Mbit/s

95th percentile per-packet one-way delay: 81.369 ms

Loss rate: 3.55%

Run 6: Report of TCP BBR — Data Link

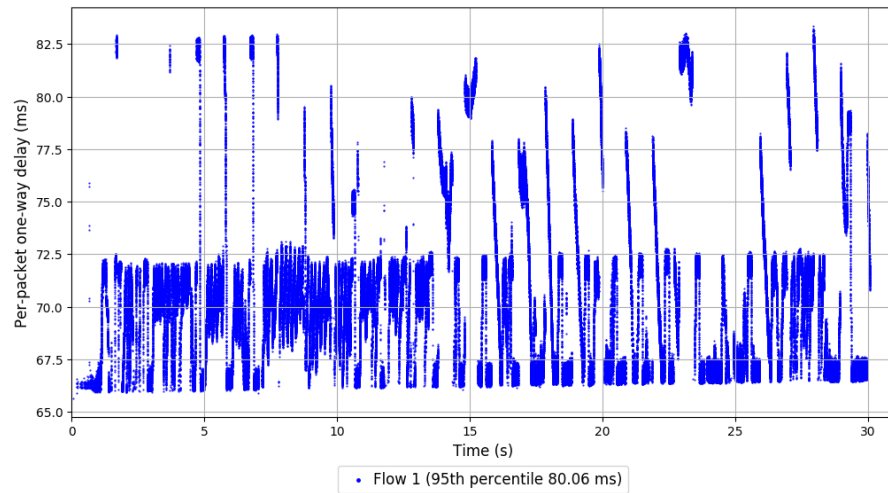
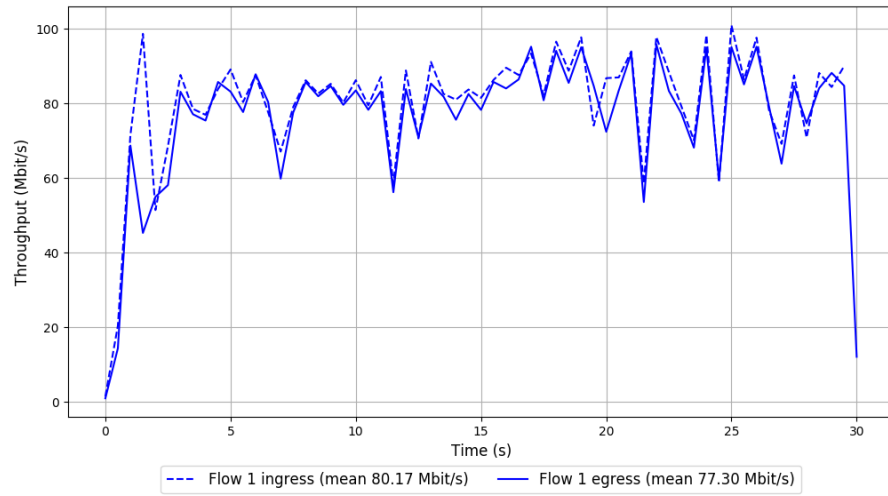


Run 7: Statistics of TCP BBR

Start at: 2018-03-15 03:19:14
End at: 2018-03-15 03:19:44
Local clock offset: 6.602 ms
Remote clock offset: 83.509 ms

Below is generated by plot.py at 2018-03-15 05:08:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.30 Mbit/s
95th percentile per-packet one-way delay: 80.061 ms
Loss rate: 3.55%
-- Flow 1:
Average throughput: 77.30 Mbit/s
95th percentile per-packet one-way delay: 80.061 ms
Loss rate: 3.55%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-15 03:44:20

End at: 2018-03-15 03:44:50

Local clock offset: 3.516 ms

Remote clock offset: 73.725 ms

Below is generated by plot.py at 2018-03-15 05:08:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.34 Mbit/s

95th percentile per-packet one-way delay: 66.276 ms

Loss rate: 12.86%

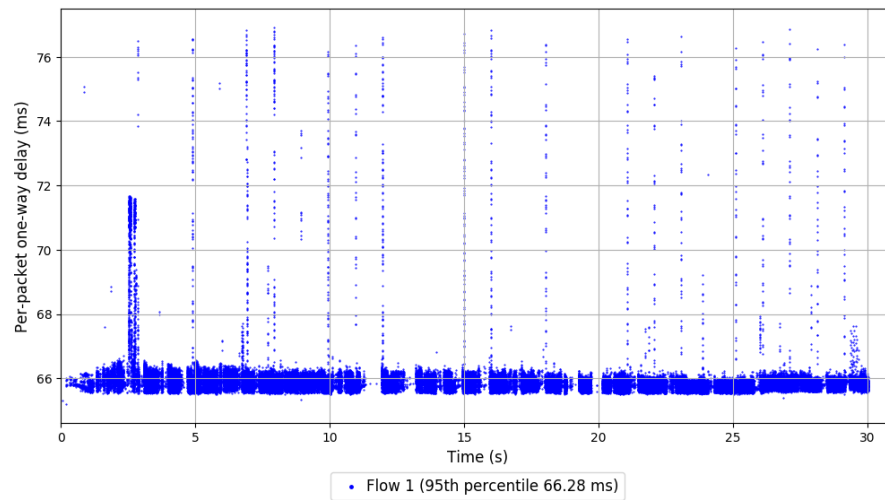
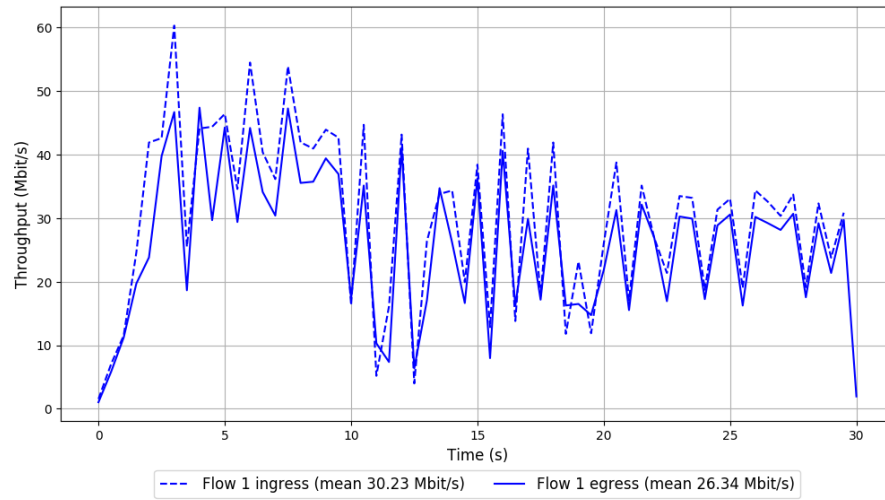
-- Flow 1:

Average throughput: 26.34 Mbit/s

95th percentile per-packet one-way delay: 66.276 ms

Loss rate: 12.86%

Run 8: Report of TCP BBR — Data Link

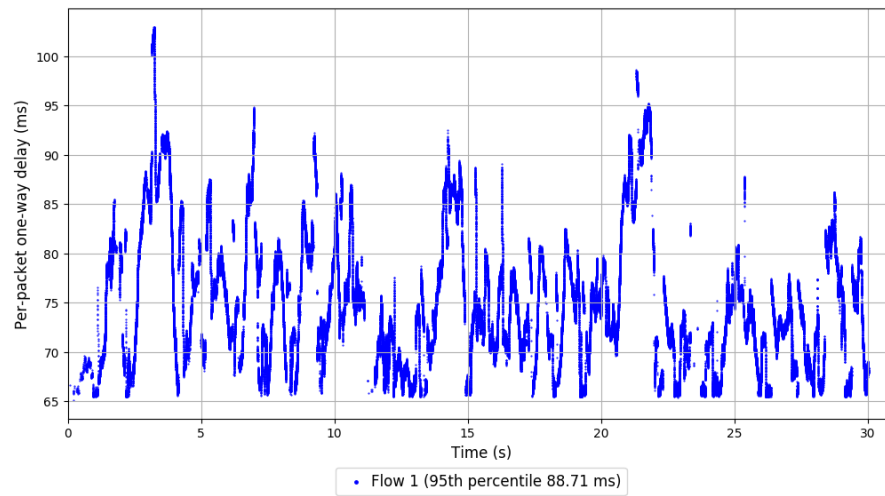
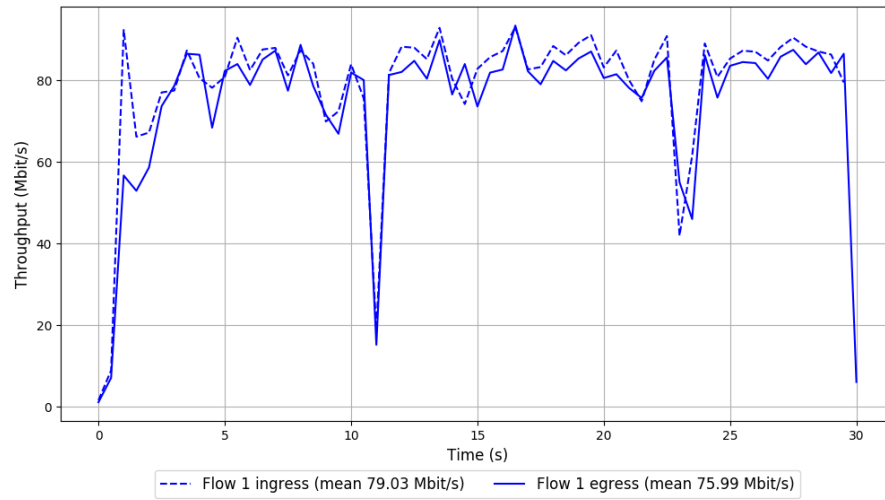


Run 9: Statistics of TCP BBR

Start at: 2018-03-15 04:08:43
End at: 2018-03-15 04:09:13
Local clock offset: 1.293 ms
Remote clock offset: 61.516 ms

Below is generated by plot.py at 2018-03-15 05:08:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 88.710 ms
Loss rate: 3.84%
-- Flow 1:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 88.710 ms
Loss rate: 3.84%

Run 9: Report of TCP BBR — Data Link

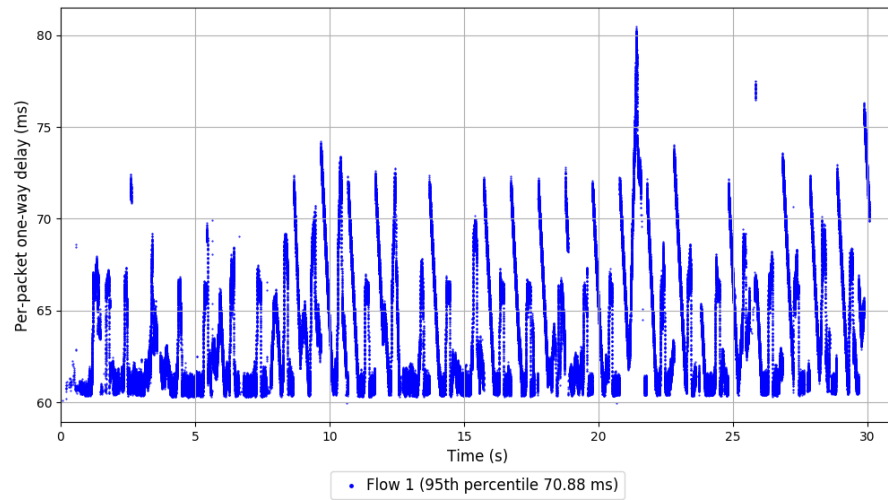
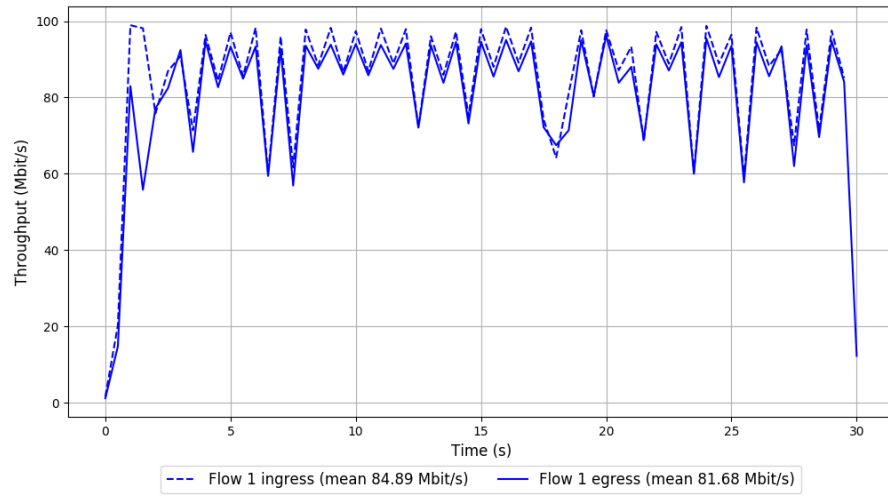


Run 10: Statistics of TCP BBR

Start at: 2018-03-15 04:31:50
End at: 2018-03-15 04:32:20
Local clock offset: -3.293 ms
Remote clock offset: 50.296 ms

Below is generated by plot.py at 2018-03-15 05:08:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.68 Mbit/s
95th percentile per-packet one-way delay: 70.884 ms
Loss rate: 3.75%
-- Flow 1:
Average throughput: 81.68 Mbit/s
95th percentile per-packet one-way delay: 70.884 ms
Loss rate: 3.75%

Run 10: Report of TCP BBR — Data Link

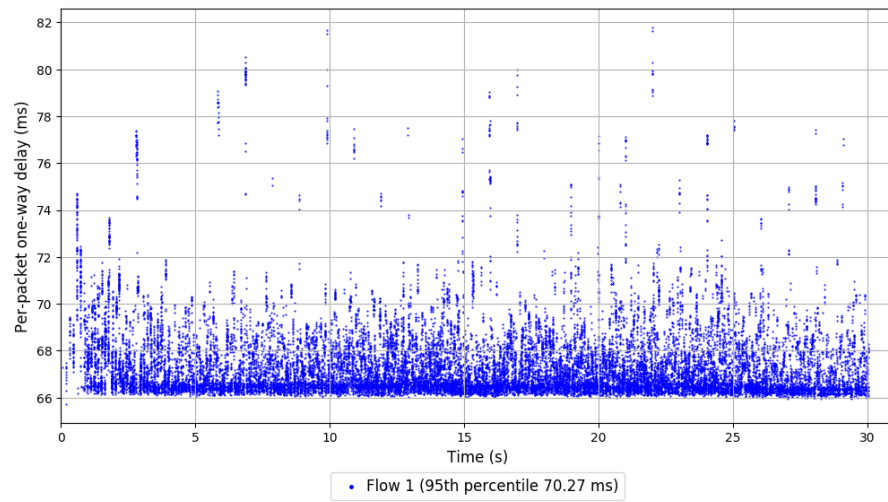
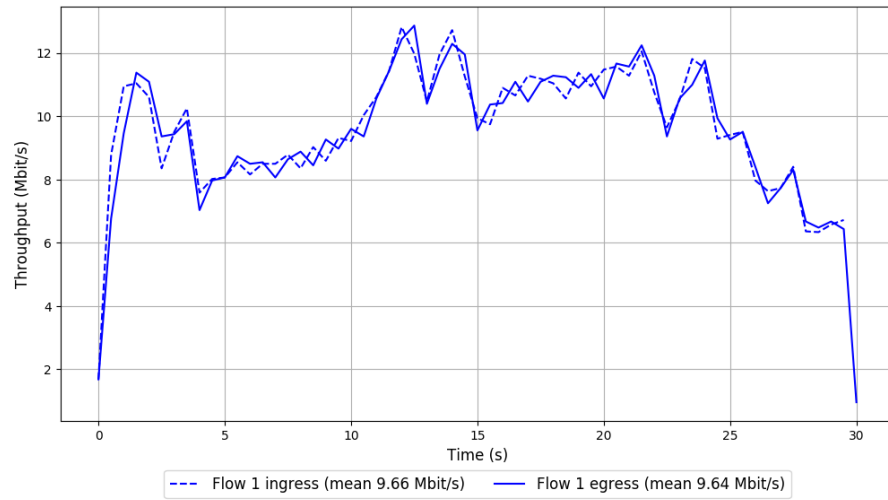


Run 1: Statistics of TCP Cubic

Start at: 2018-03-15 00:58:29
End at: 2018-03-15 00:58:59
Local clock offset: -0.918 ms
Remote clock offset: 14.225 ms

Below is generated by plot.py at 2018-03-15 05:08:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 70.266 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 70.266 ms
Loss rate: 0.24%

Run 1: Report of TCP Cubic — Data Link

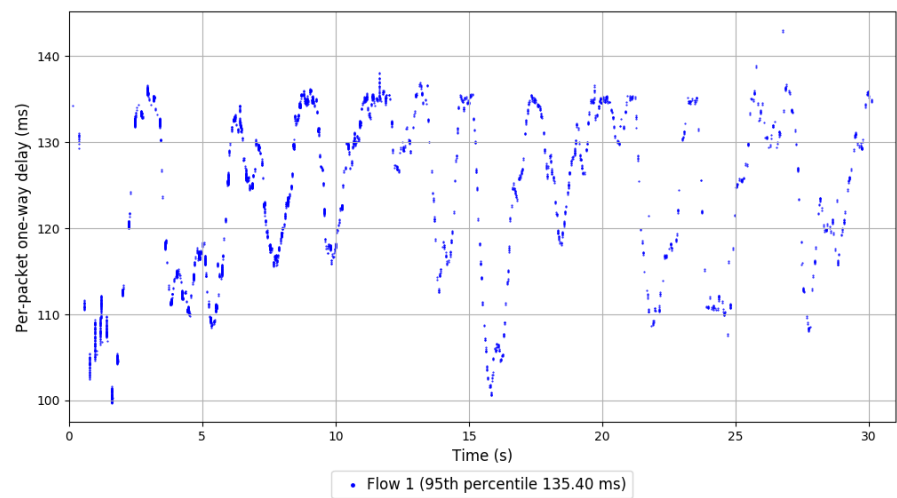
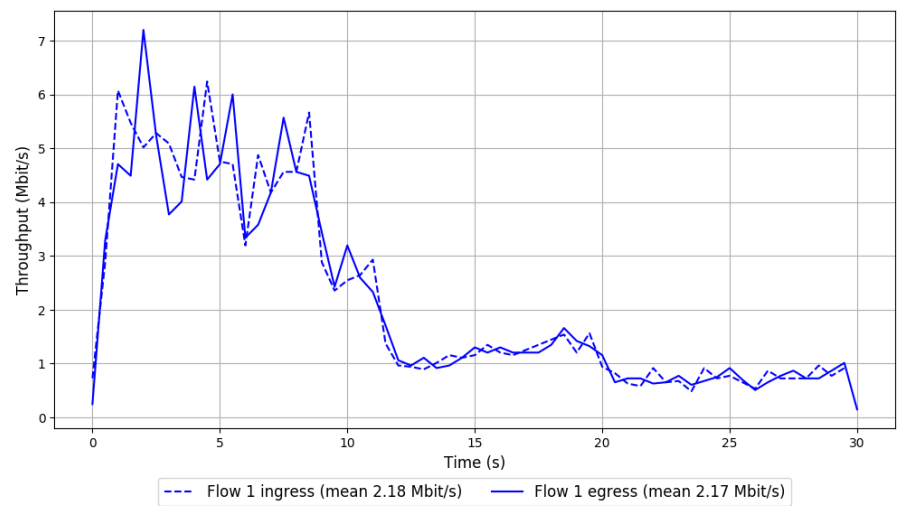


Run 2: Statistics of TCP Cubic

Start at: 2018-03-15 01:22:02
End at: 2018-03-15 01:22:32
Local clock offset: -2.059 ms
Remote clock offset: -18.57 ms

Below is generated by plot.py at 2018-03-15 05:08:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 135.399 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 135.399 ms
Loss rate: 0.79%

Run 2: Report of TCP Cubic — Data Link

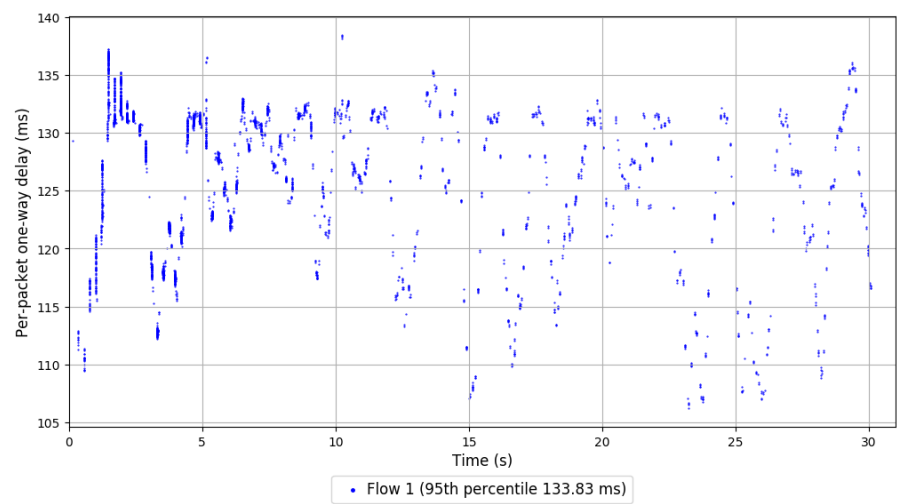
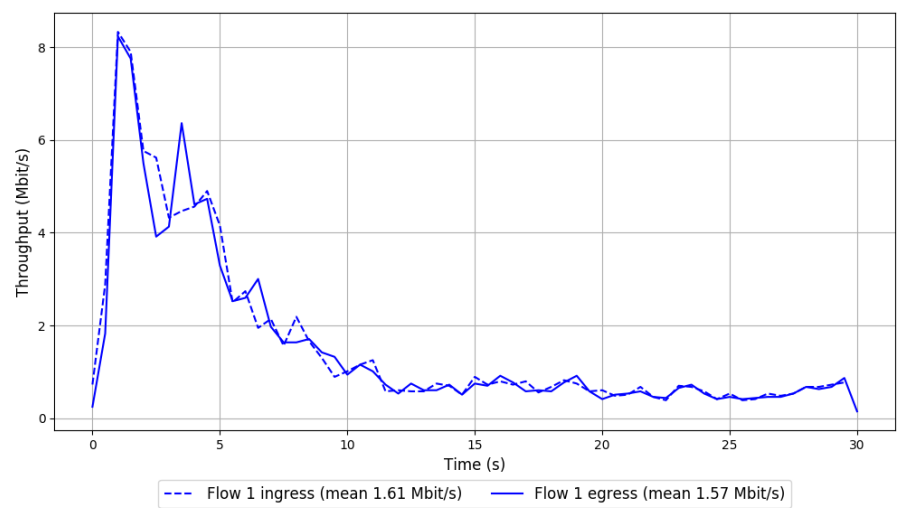


Run 3: Statistics of TCP Cubic

Start at: 2018-03-15 01:45:52
End at: 2018-03-15 01:46:22
Local clock offset: -2.718 ms
Remote clock offset: 20.834 ms

Below is generated by plot.py at 2018-03-15 05:08:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 133.834 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 1.57 Mbit/s
95th percentile per-packet one-way delay: 133.834 ms
Loss rate: 2.76%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-15 02:09:34

End at: 2018-03-15 02:10:04

Local clock offset: 7.019 ms

Remote clock offset: 76.77 ms

Below is generated by plot.py at 2018-03-15 05:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 67.809 ms

Loss rate: 0.50%

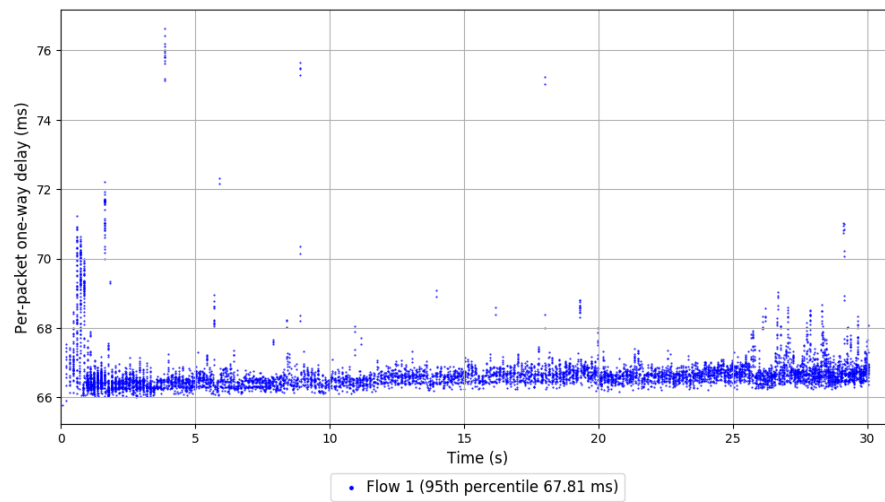
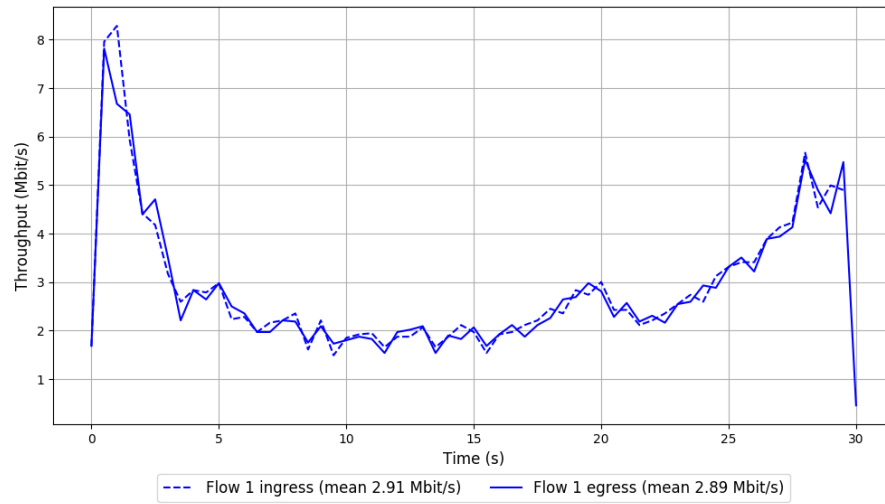
-- Flow 1:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 67.809 ms

Loss rate: 0.50%

Run 4: Report of TCP Cubic — Data Link

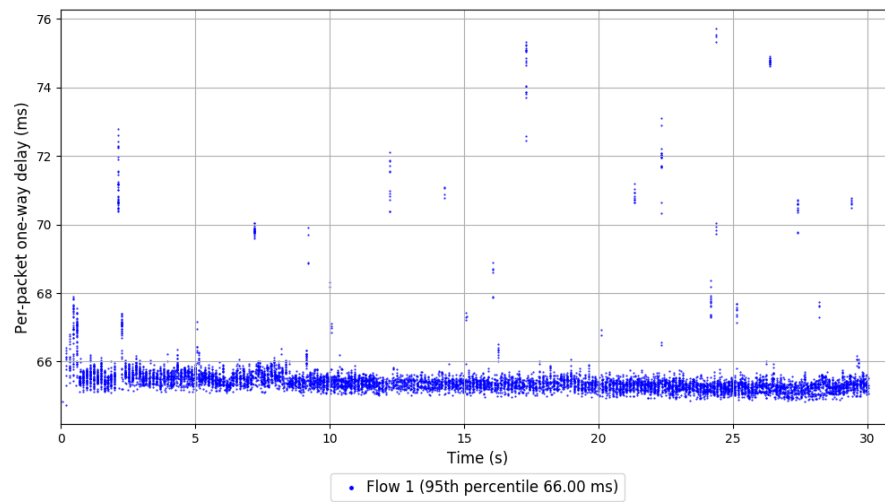
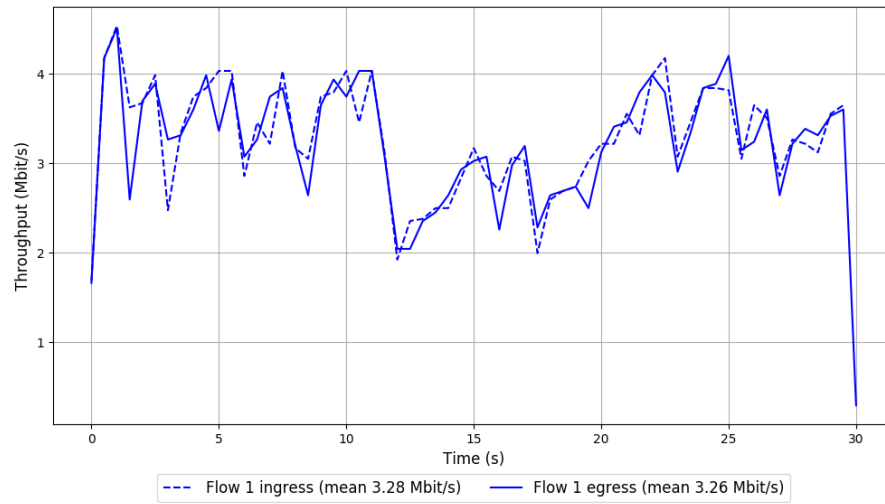


Run 5: Statistics of TCP Cubic

Start at: 2018-03-15 02:33:54
End at: 2018-03-15 02:34:24
Local clock offset: 6.681 ms
Remote clock offset: 82.133 ms

Below is generated by plot.py at 2018-03-15 05:08:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 65.999 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 3.26 Mbit/s
95th percentile per-packet one-way delay: 65.999 ms
Loss rate: 0.54%

Run 5: Report of TCP Cubic — Data Link

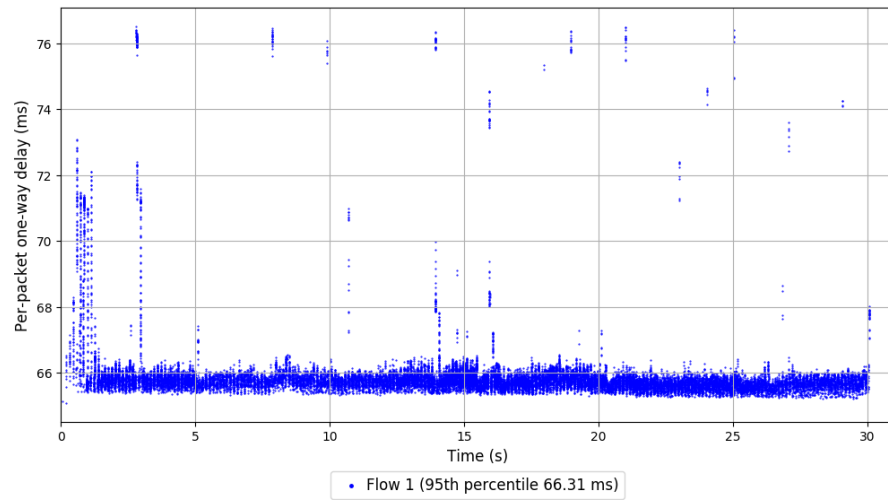
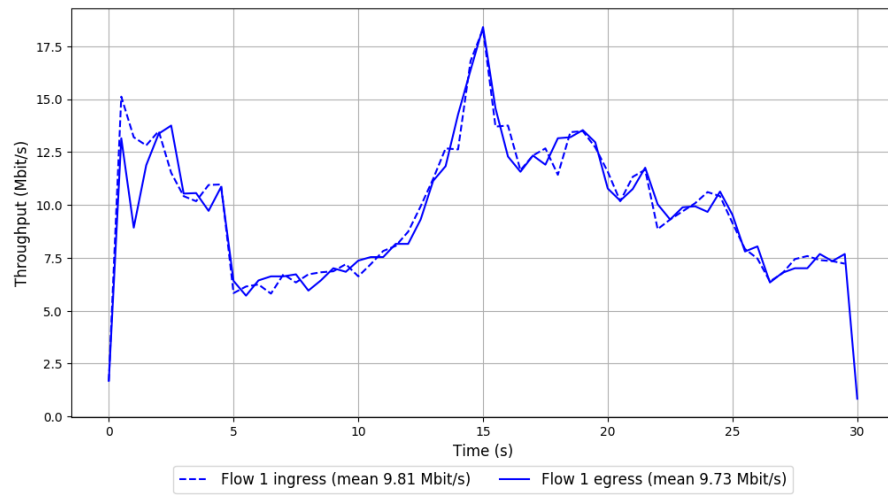


Run 6: Statistics of TCP Cubic

Start at: 2018-03-15 02:57:33
End at: 2018-03-15 02:58:03
Local clock offset: 6.261 ms
Remote clock offset: 88.761 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 66.315 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 66.315 ms
Loss rate: 0.81%

Run 6: Report of TCP Cubic — Data Link

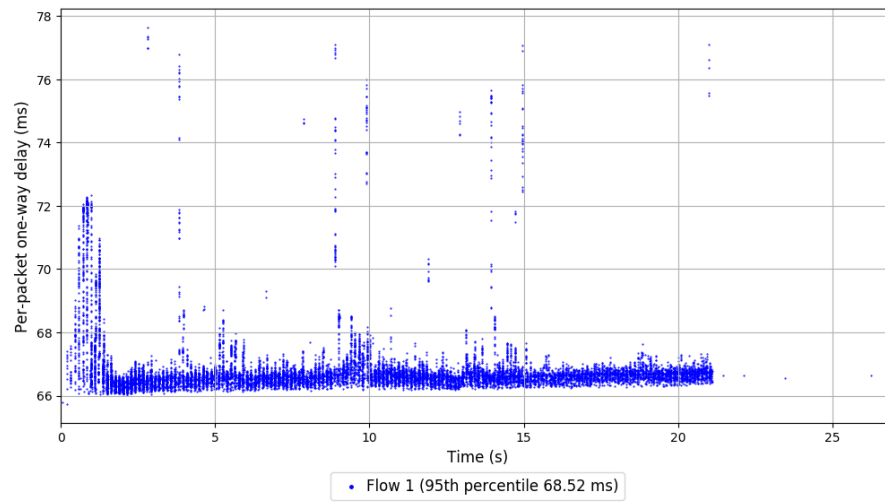
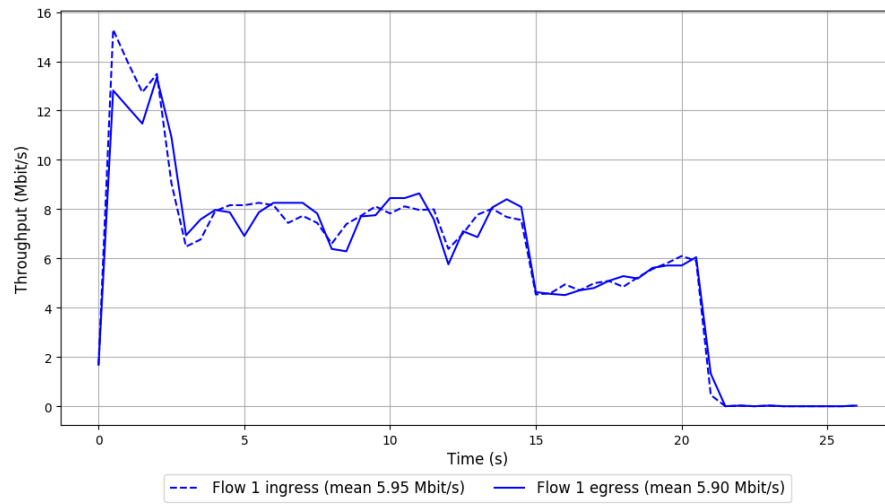


Run 7: Statistics of TCP Cubic

Start at: 2018-03-15 03:21:44
End at: 2018-03-15 03:22:14
Local clock offset: 6.69 ms
Remote clock offset: 80.946 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.90 Mbit/s
95th percentile per-packet one-way delay: 68.516 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 5.90 Mbit/s
95th percentile per-packet one-way delay: 68.516 ms
Loss rate: 0.91%

Run 7: Report of TCP Cubic — Data Link

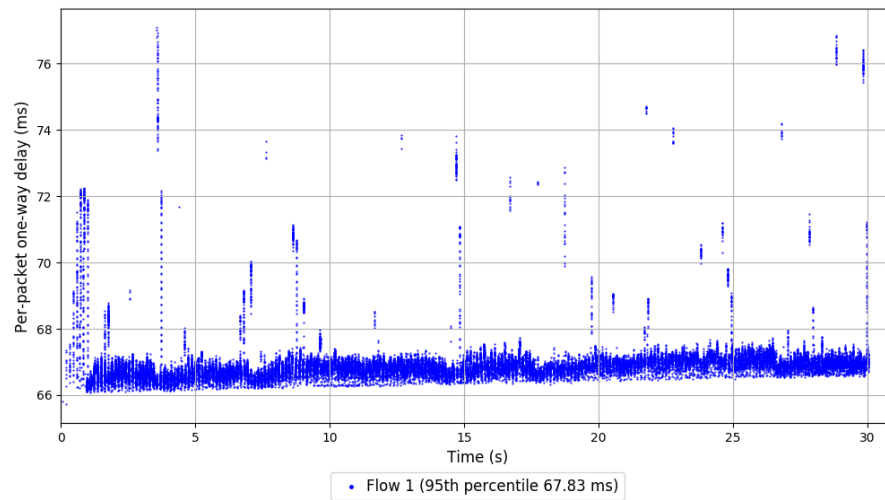
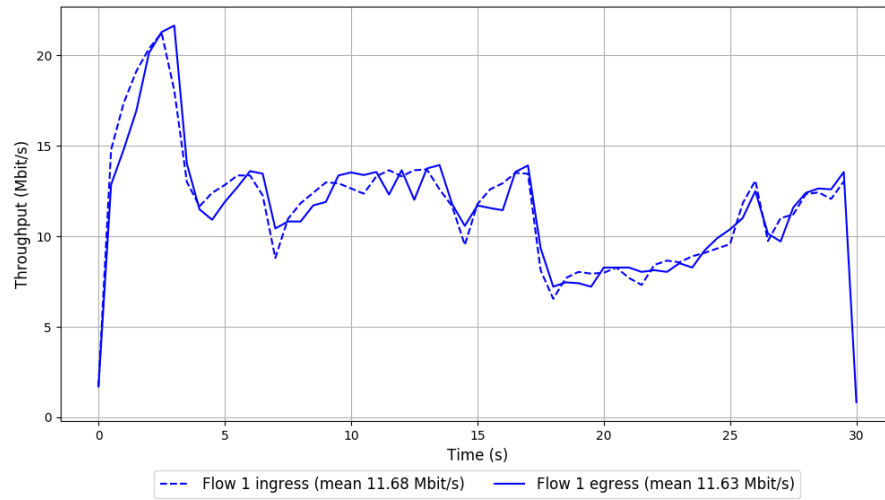


Run 8: Statistics of TCP Cubic

Start at: 2018-03-15 03:47:09
End at: 2018-03-15 03:47:39
Local clock offset: 3.005 ms
Remote clock offset: 72.927 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 67.828 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 67.828 ms
Loss rate: 0.40%

Run 8: Report of TCP Cubic — Data Link

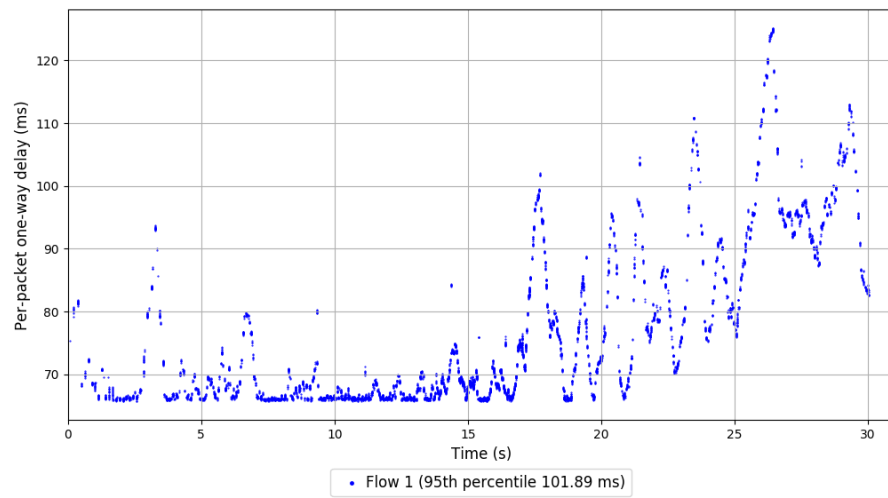
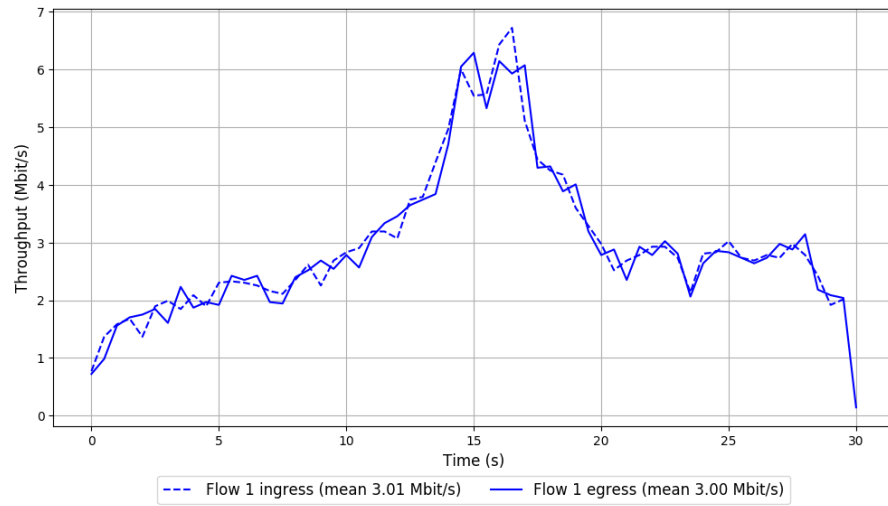


Run 9: Statistics of TCP Cubic

Start at: 2018-03-15 04:11:16
End at: 2018-03-15 04:11:46
Local clock offset: 0.168 ms
Remote clock offset: 60.765 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 101.892 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 101.892 ms
Loss rate: 0.48%

Run 9: Report of TCP Cubic — Data Link

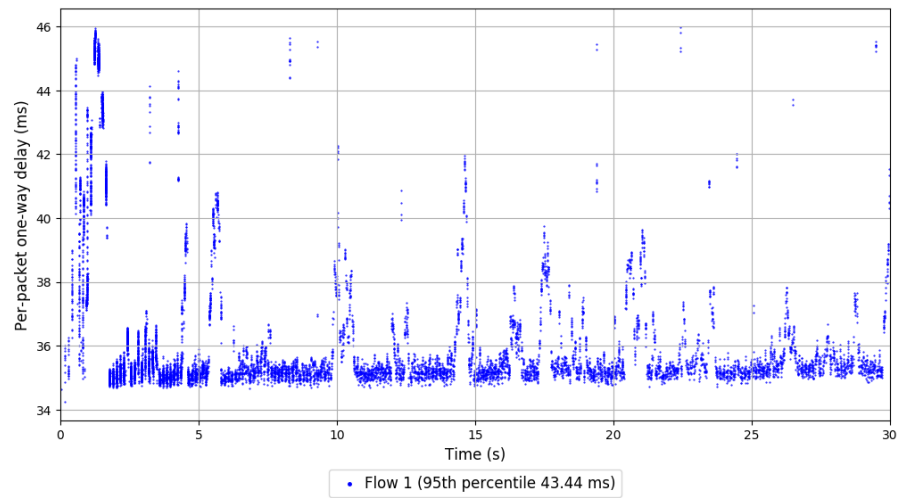
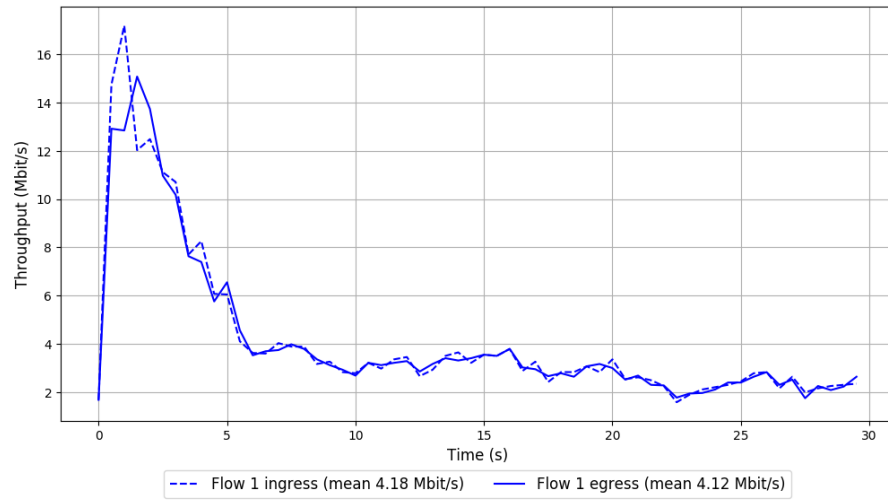


Run 10: Statistics of TCP Cubic

Start at: 2018-03-15 04:34:21
End at: 2018-03-15 04:34:51
Local clock offset: -3.401 ms
Remote clock offset: 24.015 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 43.444 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 43.444 ms
Loss rate: 1.41%

Run 10: Report of TCP Cubic — Data Link

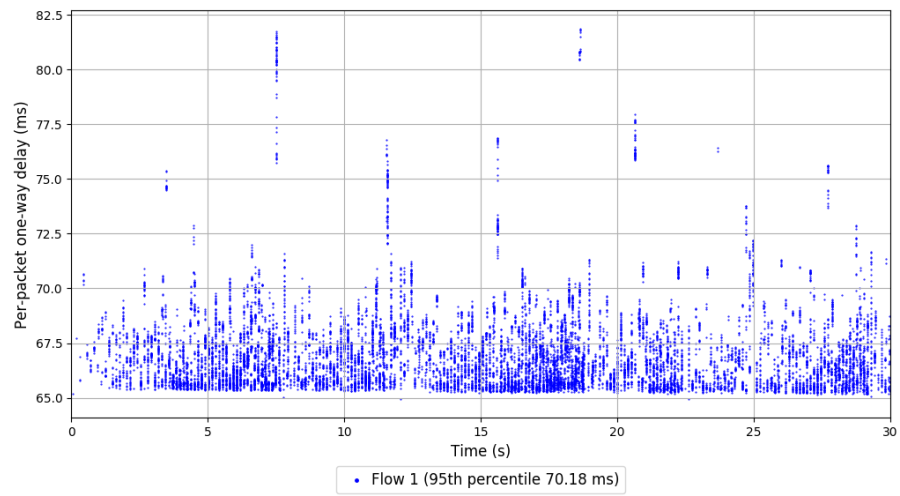
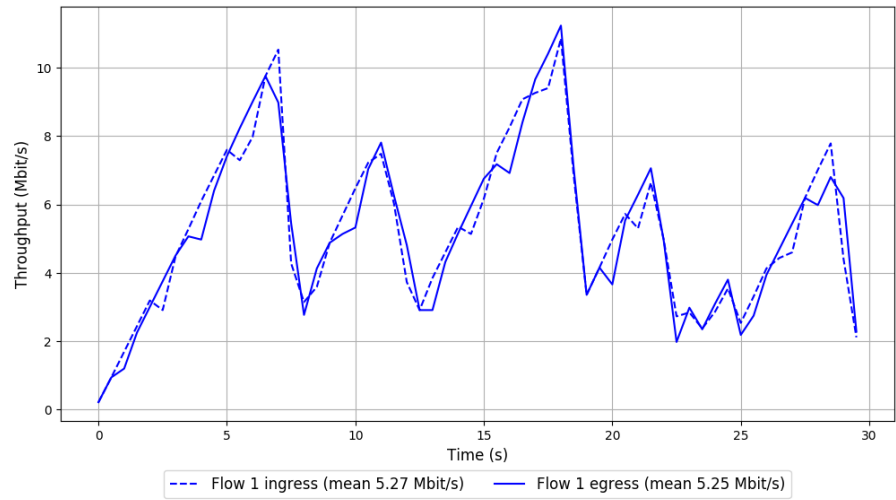


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-15 00:47:20
End at: 2018-03-15 00:47:50
Local clock offset: 2.927 ms
Remote clock offset: 12.369 ms

# Below is generated by plot.py at 2018-03-15 05:08:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 70.176 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 70.176 ms
Loss rate: 0.36%
```


Run 1: Report of LEDBAT — Data Link

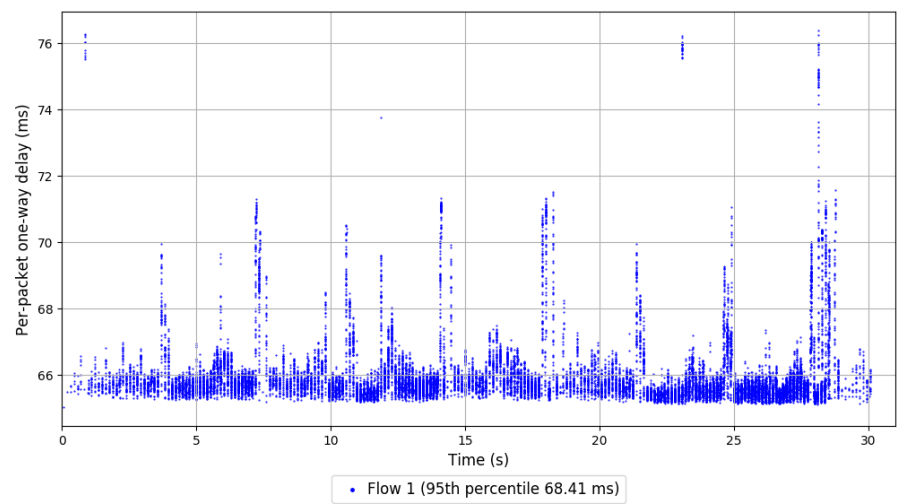
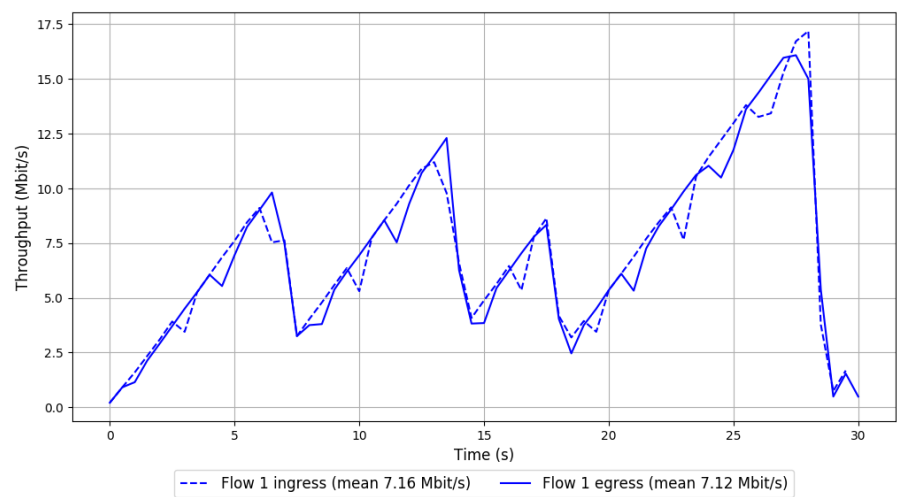


Run 2: Statistics of LEDBAT

Start at: 2018-03-15 01:10:32
End at: 2018-03-15 01:11:02
Local clock offset: -1.914 ms
Remote clock offset: 15.841 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 68.413 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 68.413 ms
Loss rate: 0.44%

Run 2: Report of LEDBAT — Data Link

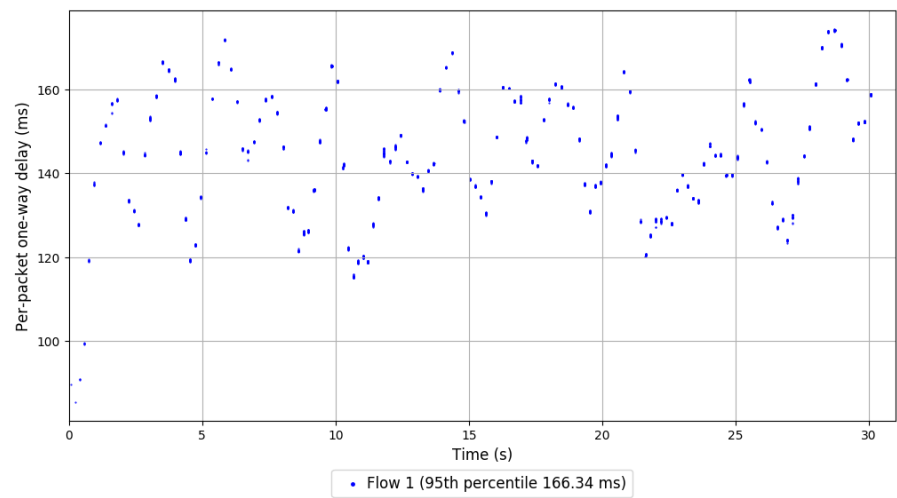
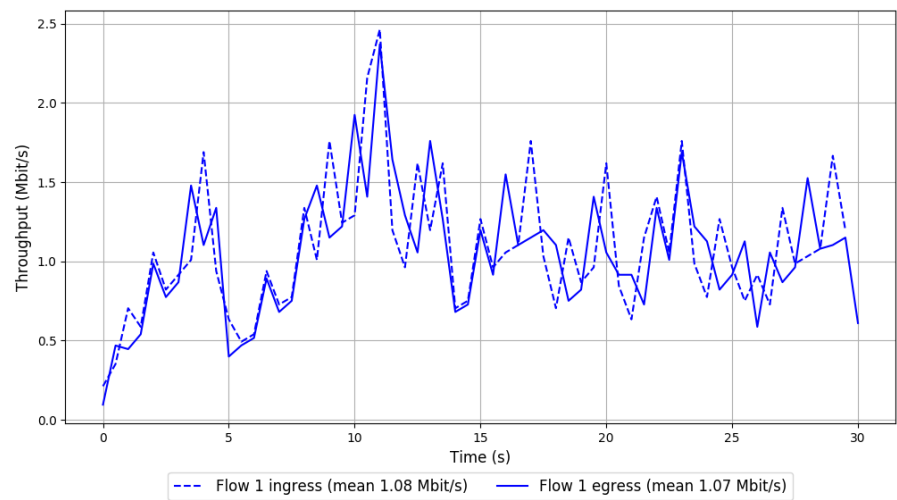


Run 3: Statistics of LEDBAT

Start at: 2018-03-15 01:34:27
End at: 2018-03-15 01:34:57
Local clock offset: -2.227 ms
Remote clock offset: 34.879 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 166.344 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 166.344 ms
Loss rate: 1.05%

Run 3: Report of LEDBAT — Data Link

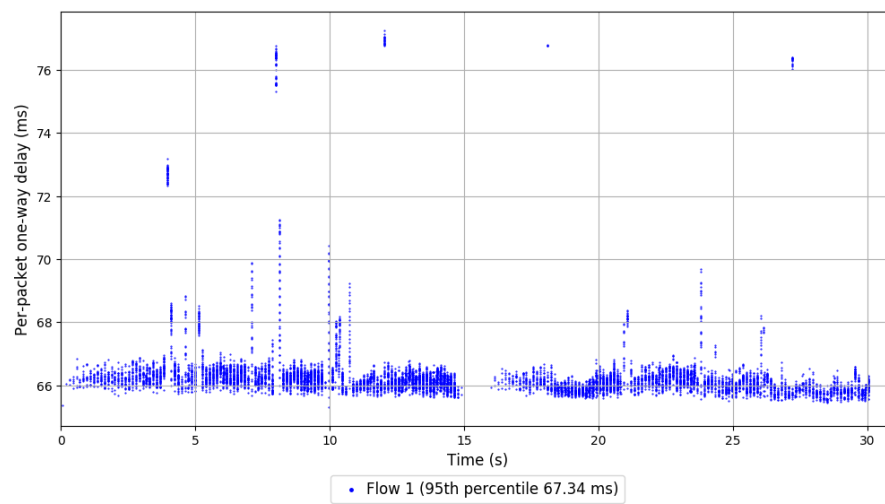
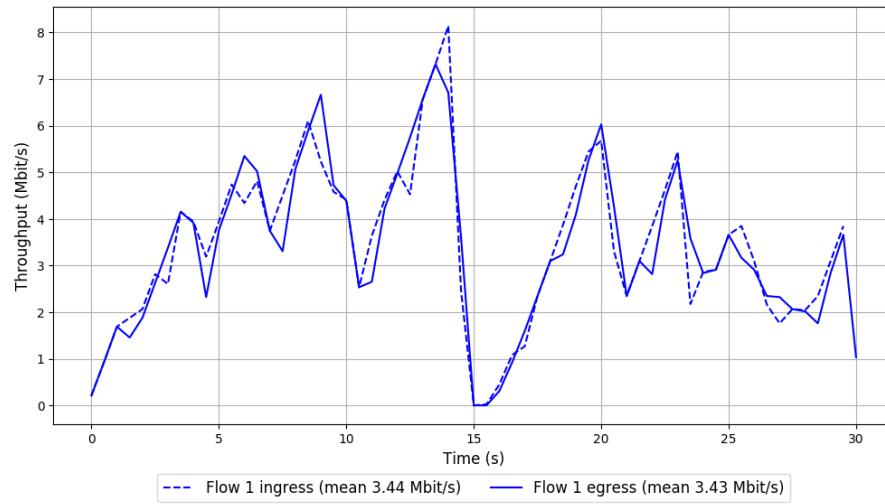


Run 4: Statistics of LEDBAT

Start at: 2018-03-15 01:58:30
End at: 2018-03-15 01:59:00
Local clock offset: 2.57 ms
Remote clock offset: 73.852 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 67.337 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 67.337 ms
Loss rate: 0.35%

Run 4: Report of LEDBAT — Data Link

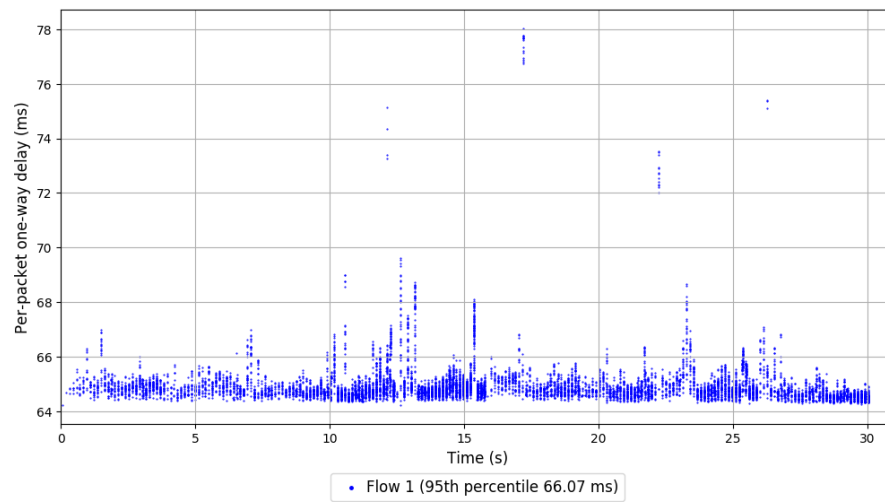
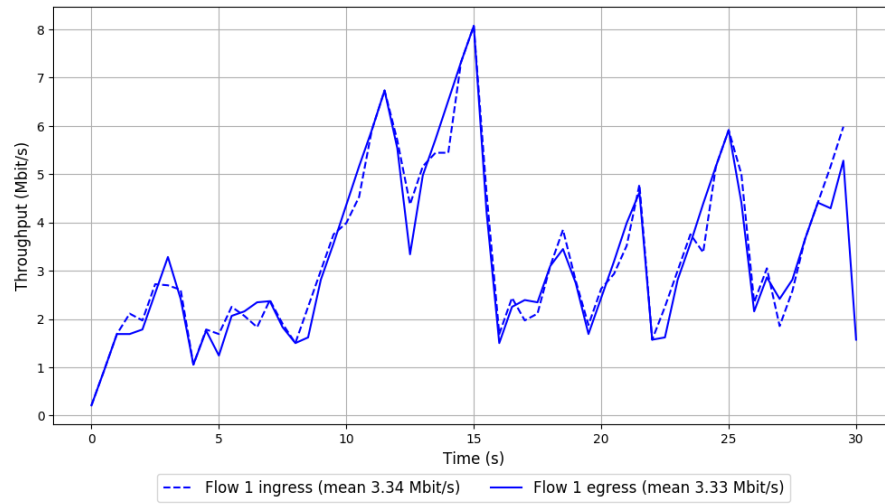


Run 5: Statistics of LEDBAT

Start at: 2018-03-15 02:22:02
End at: 2018-03-15 02:22:32
Local clock offset: 9.017 ms
Remote clock offset: 76.425 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 66.069 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 3.33 Mbit/s
95th percentile per-packet one-way delay: 66.069 ms
Loss rate: 0.55%

Run 5: Report of LEDBAT — Data Link

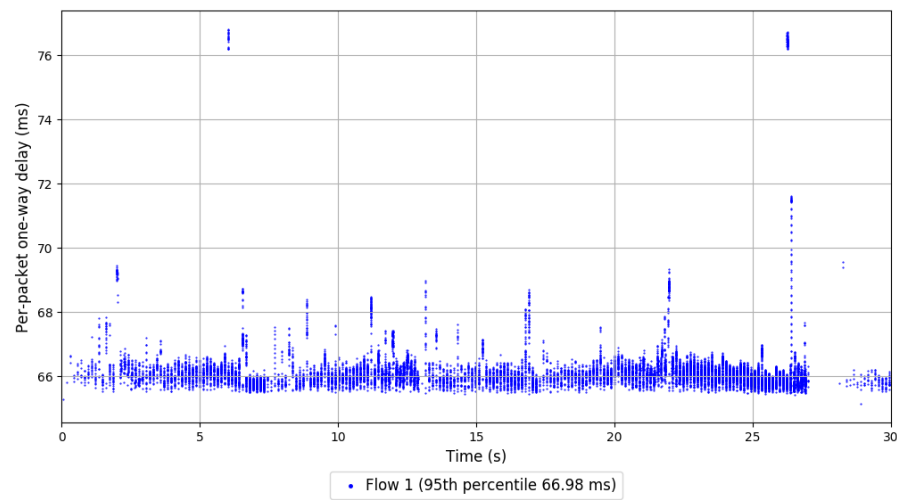
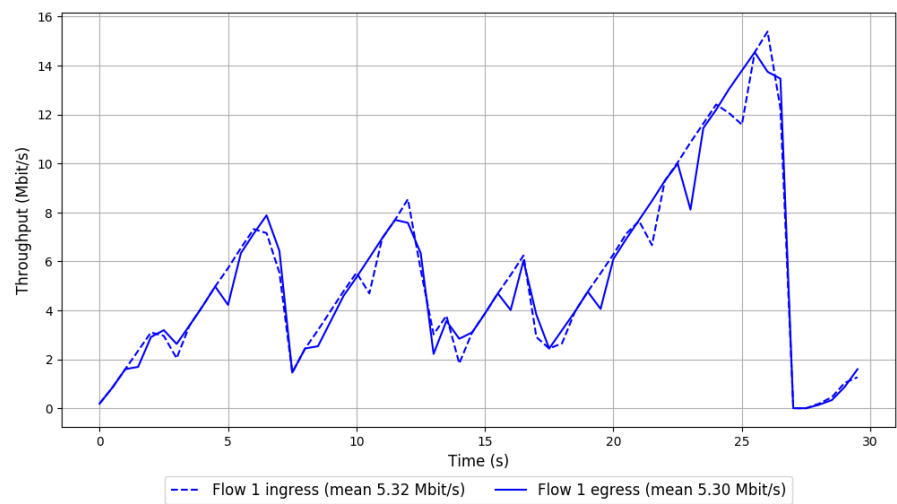


Run 6: Statistics of LEDBAT

Start at: 2018-03-15 02:46:26
End at: 2018-03-15 02:46:56
Local clock offset: 6.122 ms
Remote clock offset: 85.284 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 66.978 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 5.30 Mbit/s
95th percentile per-packet one-way delay: 66.978 ms
Loss rate: 0.38%

Run 6: Report of LEDBAT — Data Link

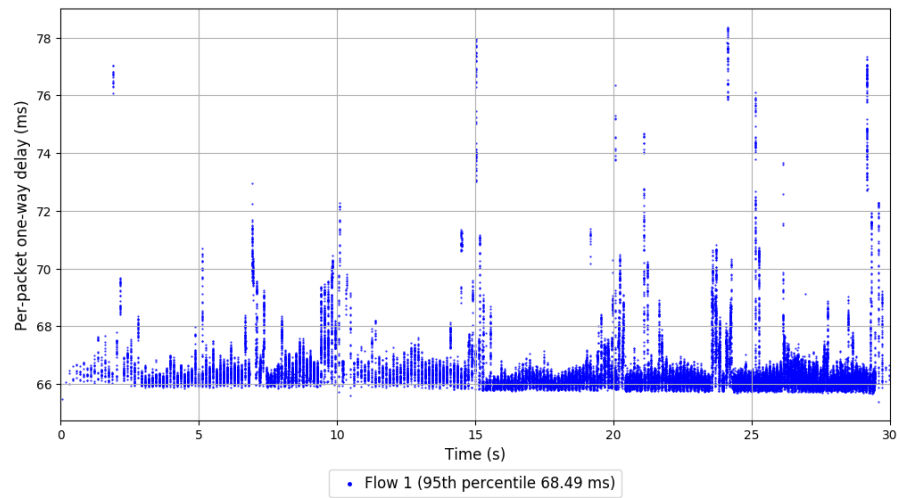
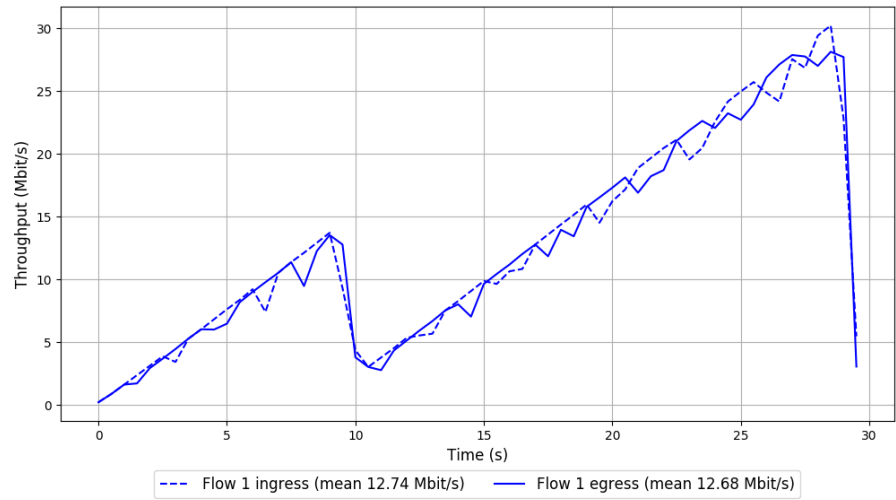


Run 7: Statistics of LEDBAT

Start at: 2018-03-15 03:09:40
End at: 2018-03-15 03:10:10
Local clock offset: 6.31 ms
Remote clock offset: 93.806 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 68.494 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 68.494 ms
Loss rate: 0.46%

Run 7: Report of LEDBAT — Data Link

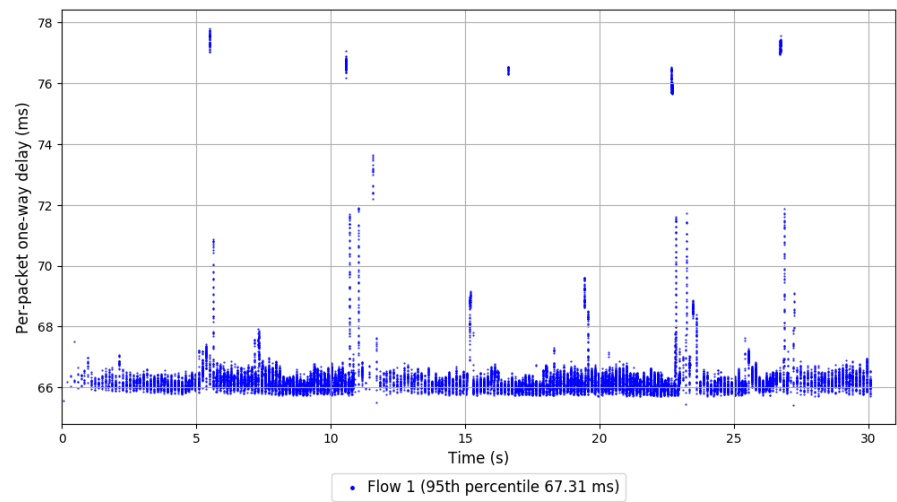
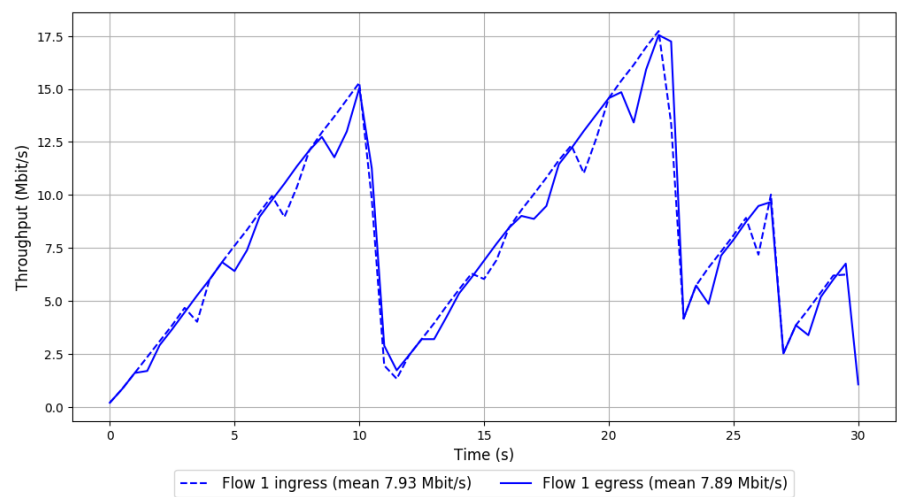


Run 8: Statistics of LEDBAT

Start at: 2018-03-15 03:34:51
End at: 2018-03-15 03:35:21
Local clock offset: 5.917 ms
Remote clock offset: 75.017 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 67.312 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 67.312 ms
Loss rate: 0.45%

Run 8: Report of LEDBAT — Data Link

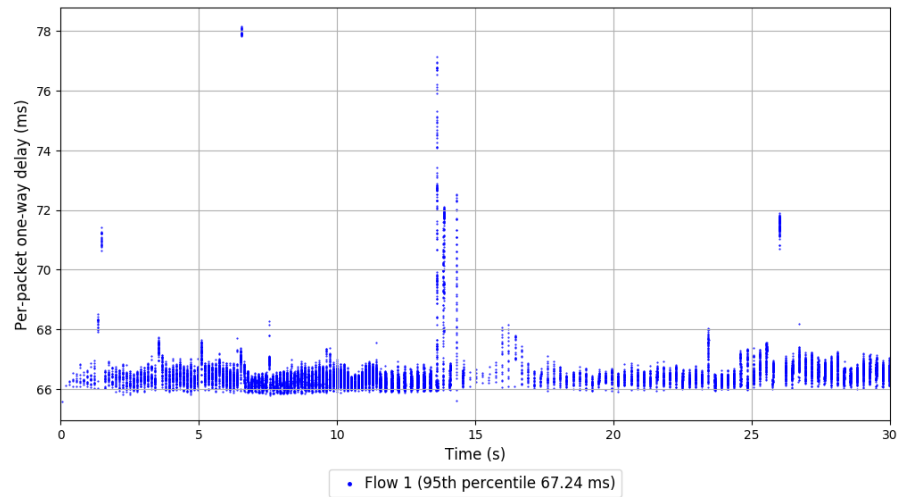
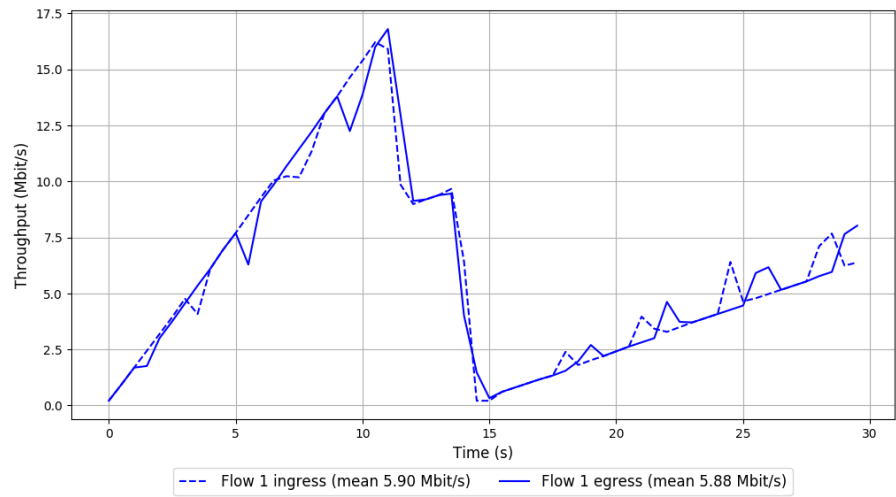


Run 9: Statistics of LEDBAT

Start at: 2018-03-15 03:59:36
End at: 2018-03-15 04:00:06
Local clock offset: 2.035 ms
Remote clock offset: 64.236 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 67.239 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 67.239 ms
Loss rate: 0.35%

Run 9: Report of LEDBAT — Data Link

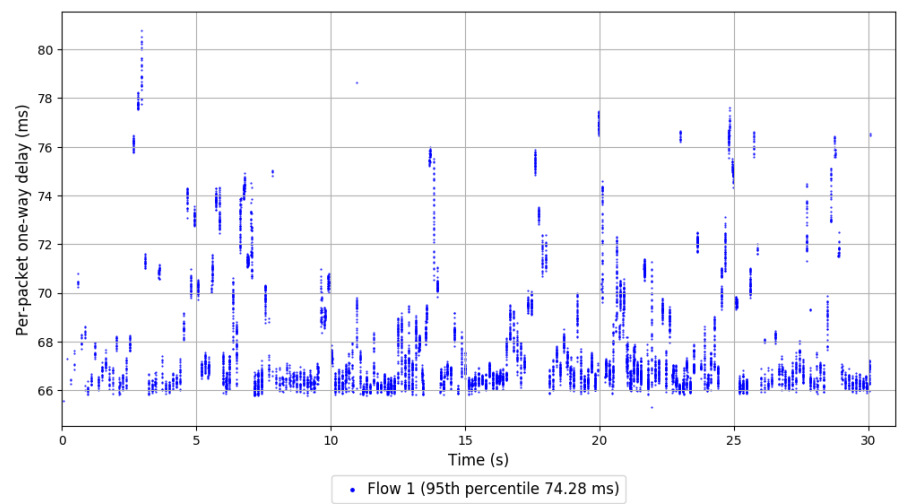
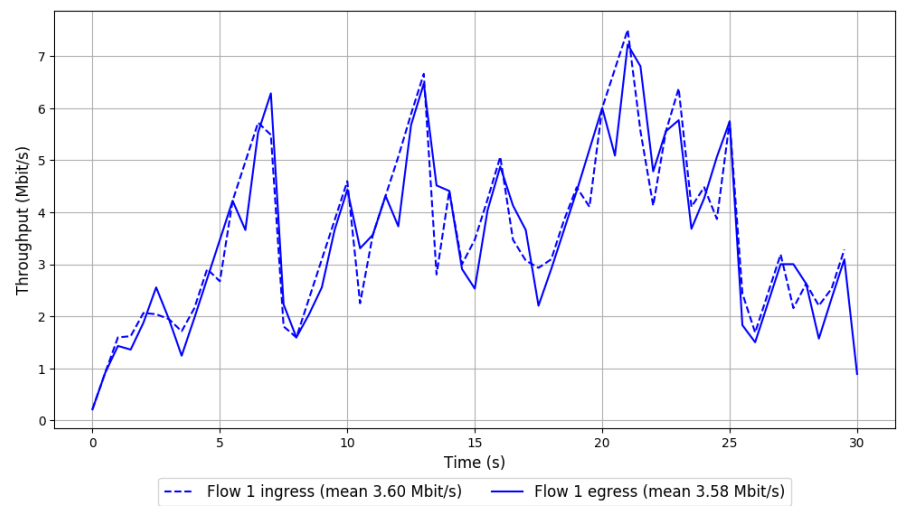


Run 10: Statistics of LEDBAT

Start at: 2018-03-15 04:23:19
End at: 2018-03-15 04:23:49
Local clock offset: -2.001 ms
Remote clock offset: 58.082 ms

Below is generated by plot.py at 2018-03-15 05:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 74.280 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 74.280 ms
Loss rate: 0.64%

Run 10: Report of LEDBAT — Data Link

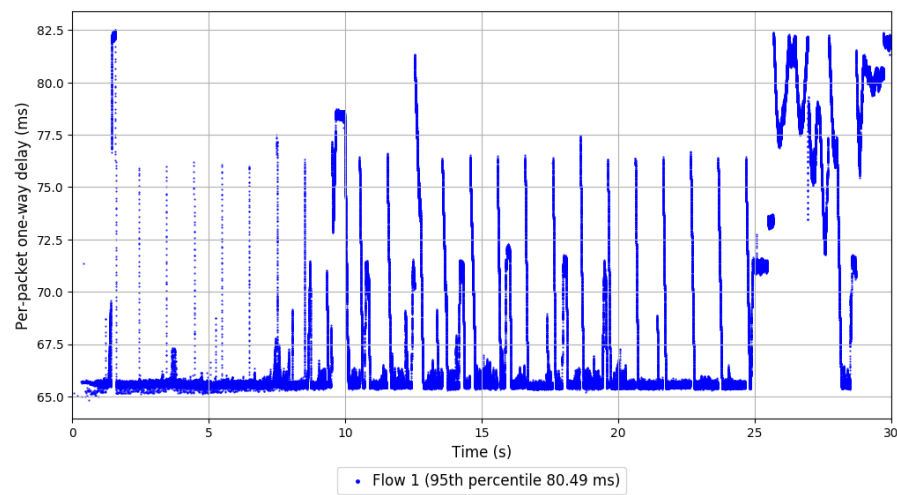
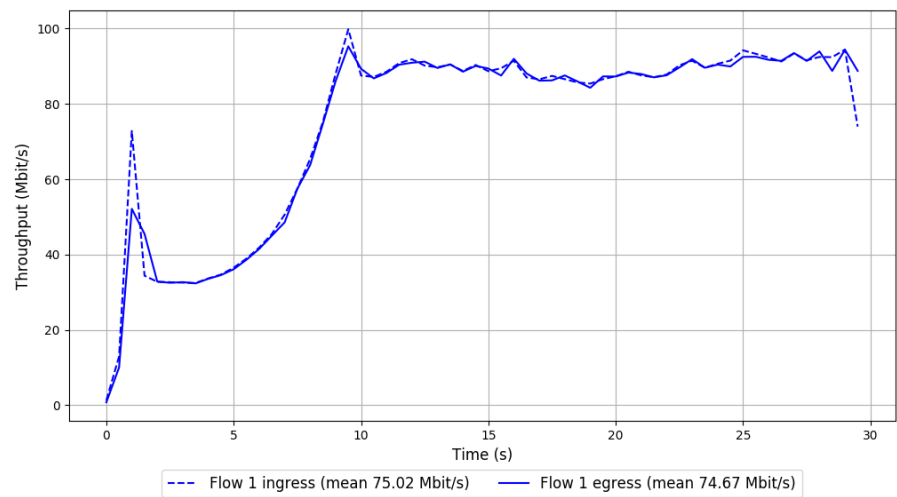


Run 1: Statistics of PCC

Start at: 2018-03-15 01:04:27
End at: 2018-03-15 01:04:57
Local clock offset: -1.226 ms
Remote clock offset: 15.045 ms

Below is generated by plot.py at 2018-03-15 05:09:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.67 Mbit/s
95th percentile per-packet one-way delay: 80.492 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 74.67 Mbit/s
95th percentile per-packet one-way delay: 80.492 ms
Loss rate: 0.40%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-15 01:28:17

End at: 2018-03-15 01:28:47

Local clock offset: -2.138 ms

Remote clock offset: 2.787 ms

Below is generated by plot.py at 2018-03-15 05:09:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 215.931 ms

Loss rate: 0.47%

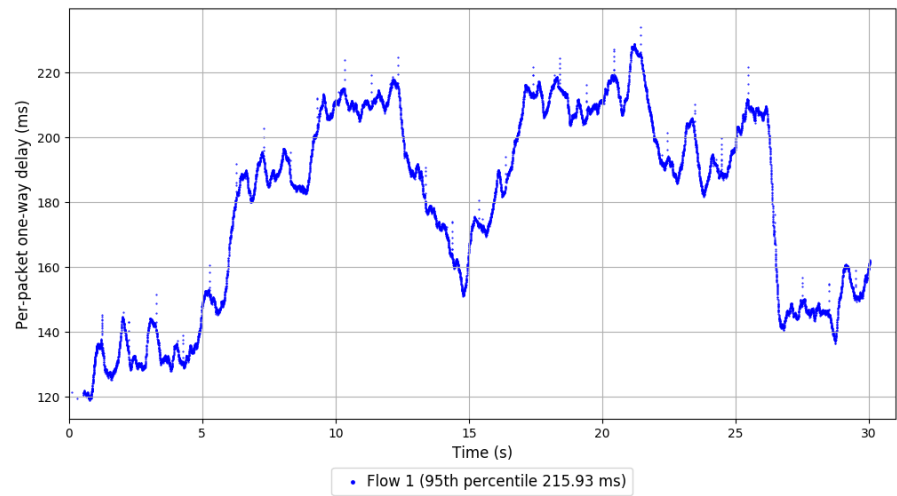
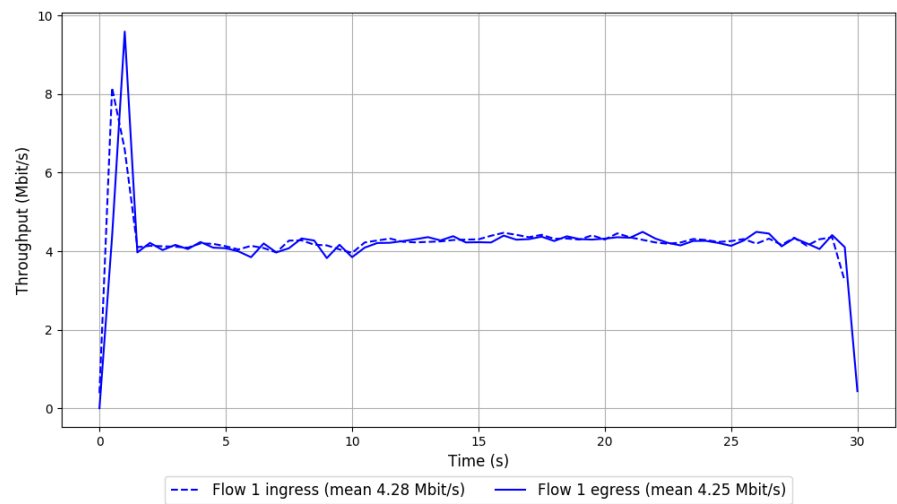
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 215.931 ms

Loss rate: 0.47%

Run 2: Report of PCC — Data Link

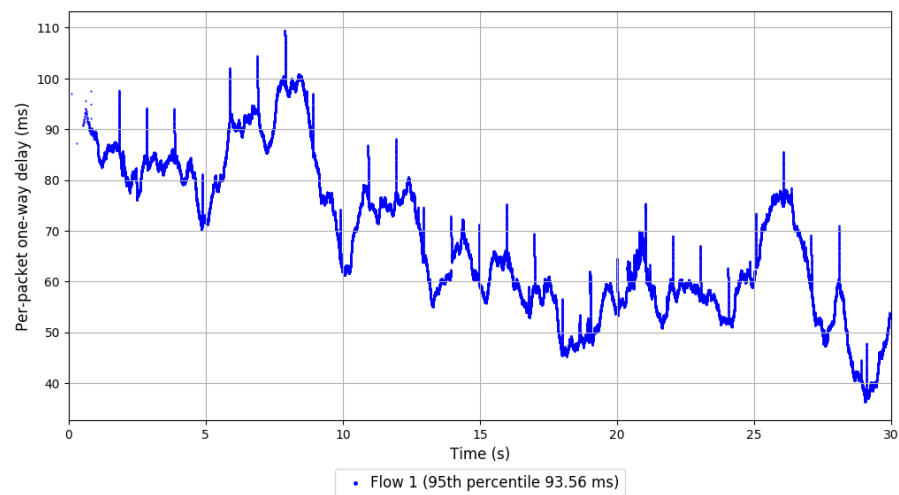
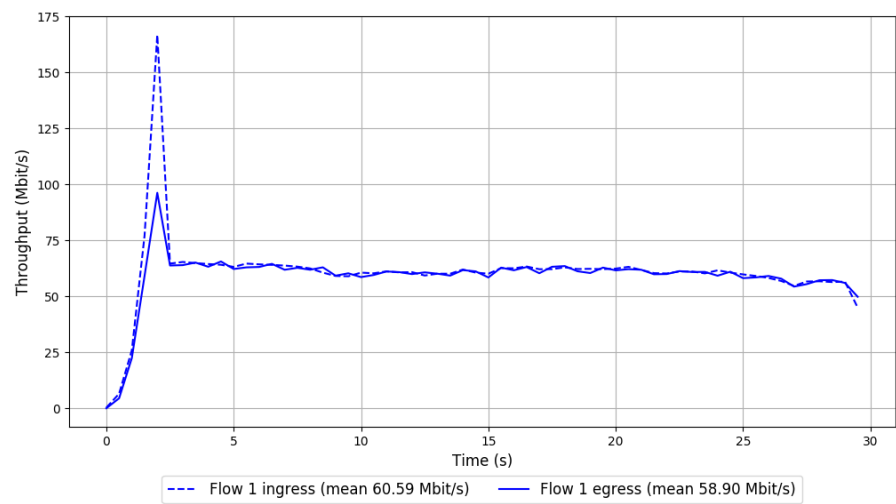


Run 3: Statistics of PCC

Start at: 2018-03-15 01:52:08
End at: 2018-03-15 01:52:38
Local clock offset: -1.167 ms
Remote clock offset: 12.162 ms

Below is generated by plot.py at 2018-03-15 05:09:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 93.563 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 58.90 Mbit/s
95th percentile per-packet one-way delay: 93.563 ms
Loss rate: 2.93%

Run 3: Report of PCC — Data Link

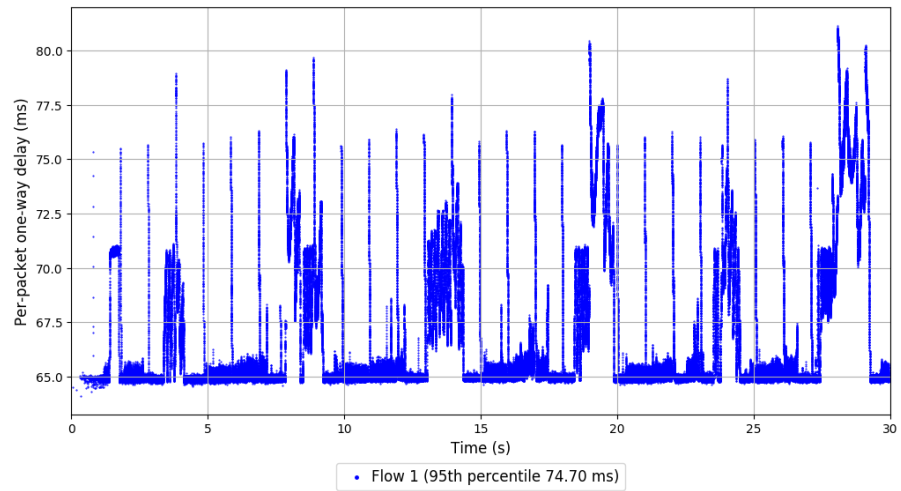
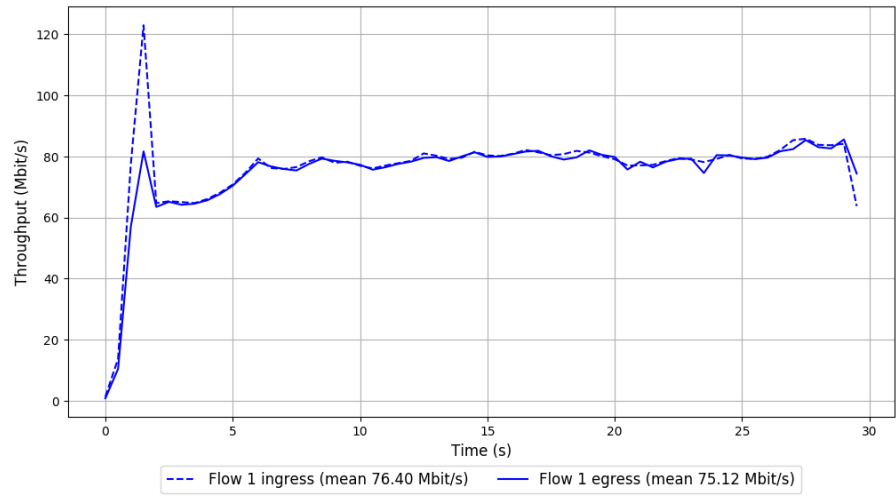


Run 4: Statistics of PCC

Start at: 2018-03-15 02:15:35
End at: 2018-03-15 02:16:05
Local clock offset: 8.418 ms
Remote clock offset: 75.431 ms

Below is generated by plot.py at 2018-03-15 05:09:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.12 Mbit/s
95th percentile per-packet one-way delay: 74.700 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 75.12 Mbit/s
95th percentile per-packet one-way delay: 74.700 ms
Loss rate: 1.67%

Run 4: Report of PCC — Data Link

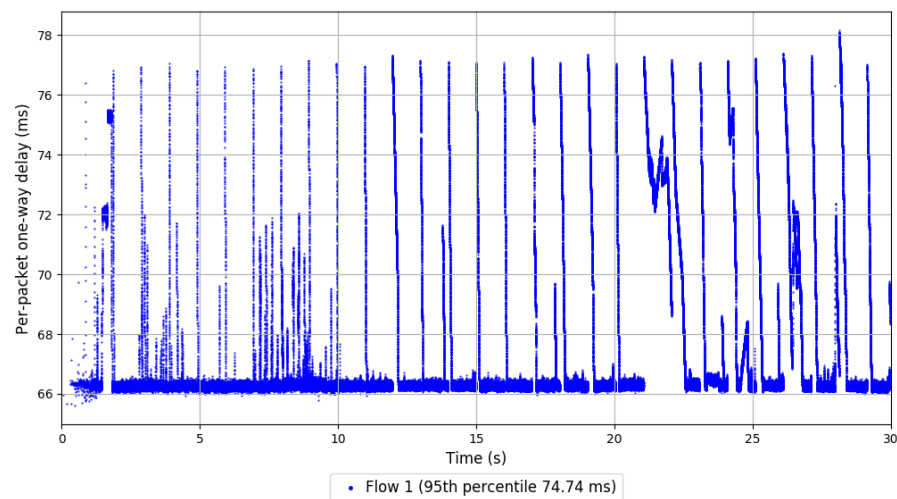
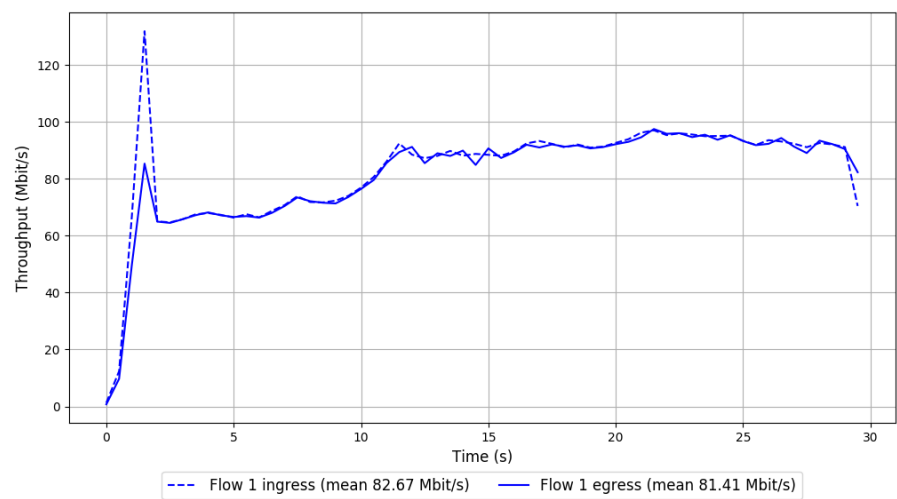


Run 5: Statistics of PCC

Start at: 2018-03-15 02:40:00
End at: 2018-03-15 02:40:30
Local clock offset: 5.522 ms
Remote clock offset: 84.619 ms

Below is generated by plot.py at 2018-03-15 05:09:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 74.744 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 74.744 ms
Loss rate: 1.51%

Run 5: Report of PCC — Data Link

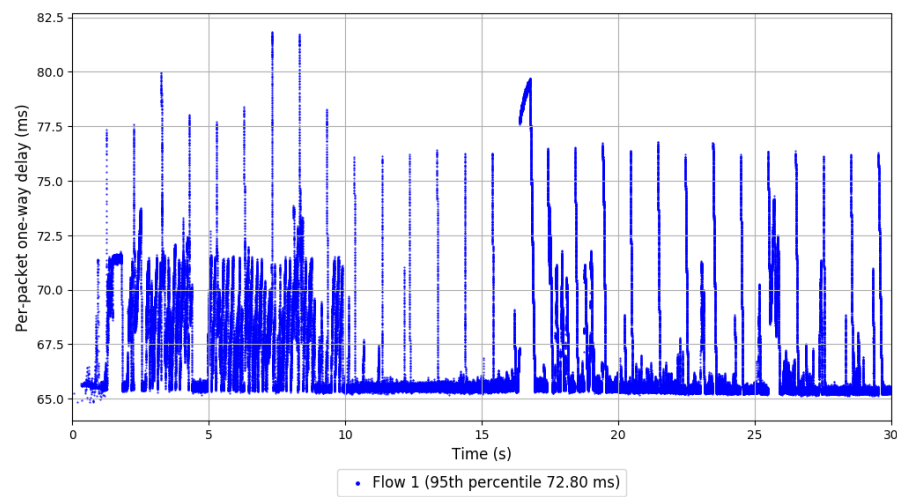
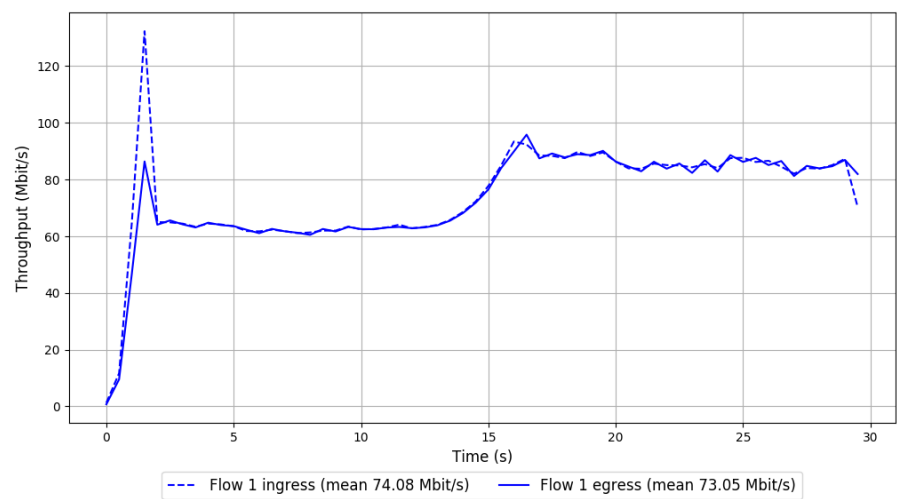


Run 6: Statistics of PCC

Start at: 2018-03-15 03:03:35
End at: 2018-03-15 03:04:05
Local clock offset: 6.304 ms
Remote clock offset: 91.137 ms

Below is generated by plot.py at 2018-03-15 05:09:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.05 Mbit/s
95th percentile per-packet one-way delay: 72.802 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 73.05 Mbit/s
95th percentile per-packet one-way delay: 72.802 ms
Loss rate: 1.38%

Run 6: Report of PCC — Data Link

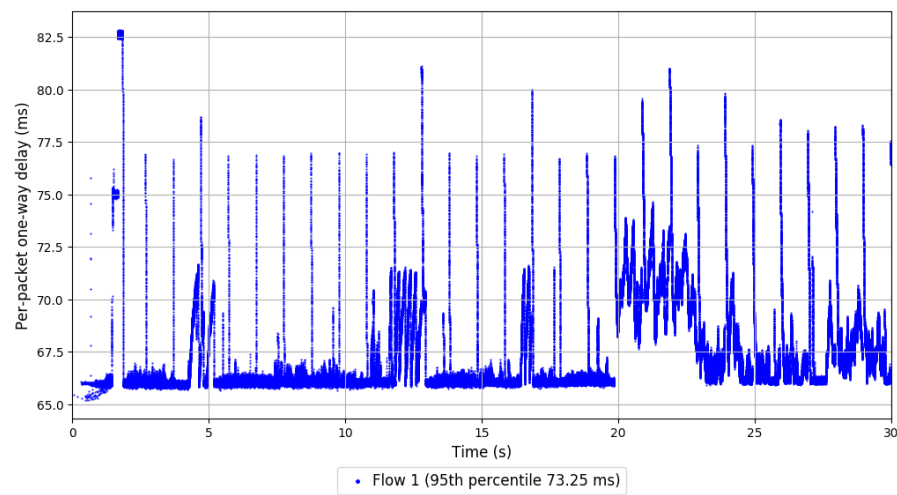
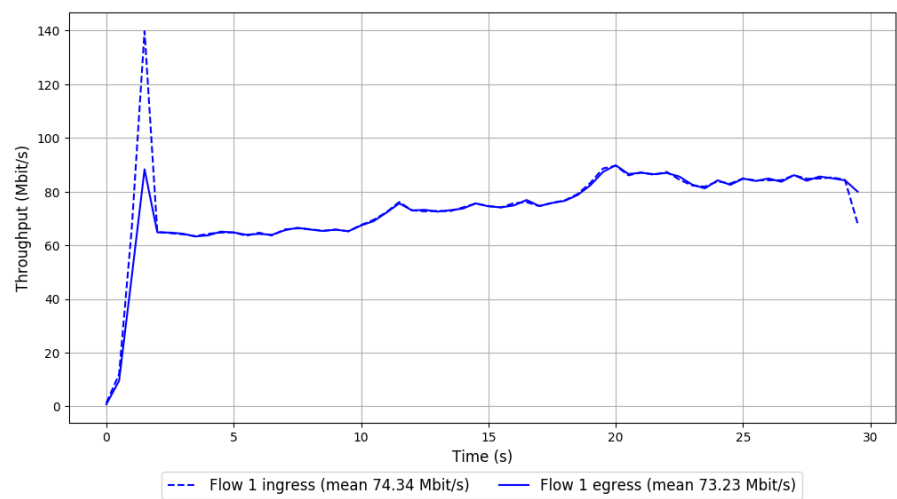


Run 7: Statistics of PCC

Start at: 2018-03-15 03:28:45
End at: 2018-03-15 03:29:15
Local clock offset: 7.008 ms
Remote clock offset: 76.662 ms

Below is generated by plot.py at 2018-03-15 05:09:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.23 Mbit/s
95th percentile per-packet one-way delay: 73.245 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 73.23 Mbit/s
95th percentile per-packet one-way delay: 73.245 ms
Loss rate: 1.45%

Run 7: Report of PCC — Data Link

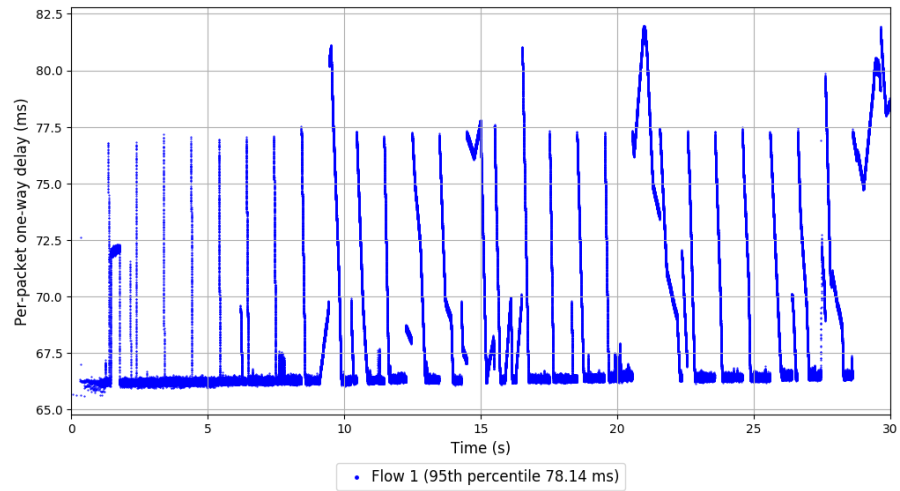
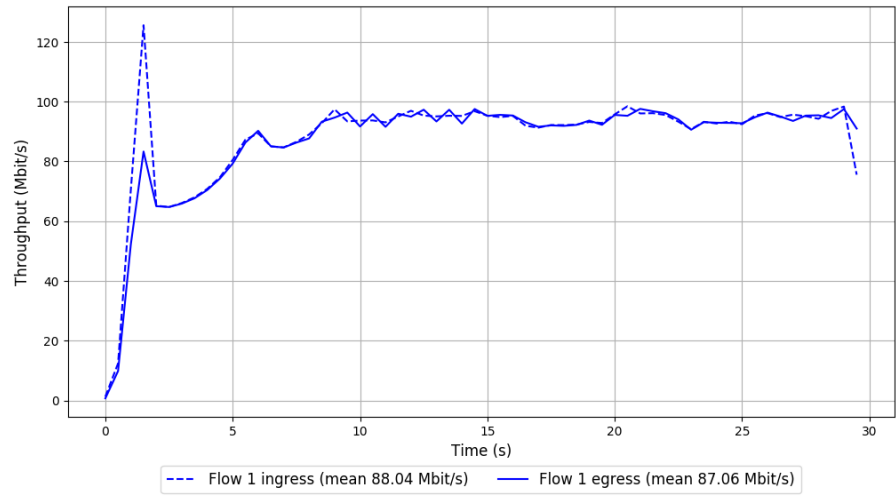


Run 8: Statistics of PCC

Start at: 2018-03-15 03:53:15
End at: 2018-03-15 03:53:45
Local clock offset: 2.592 ms
Remote clock offset: 67.619 ms

Below is generated by plot.py at 2018-03-15 05:10:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 78.143 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 78.143 ms
Loss rate: 1.07%

Run 8: Report of PCC — Data Link

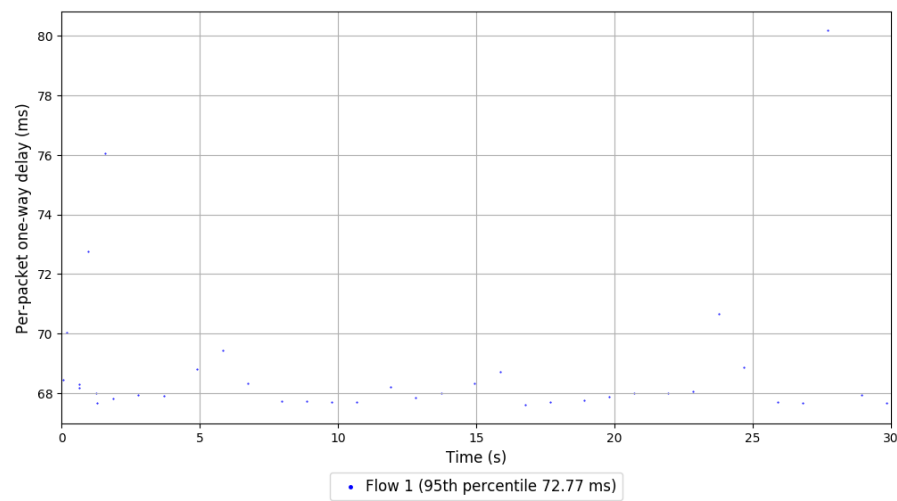
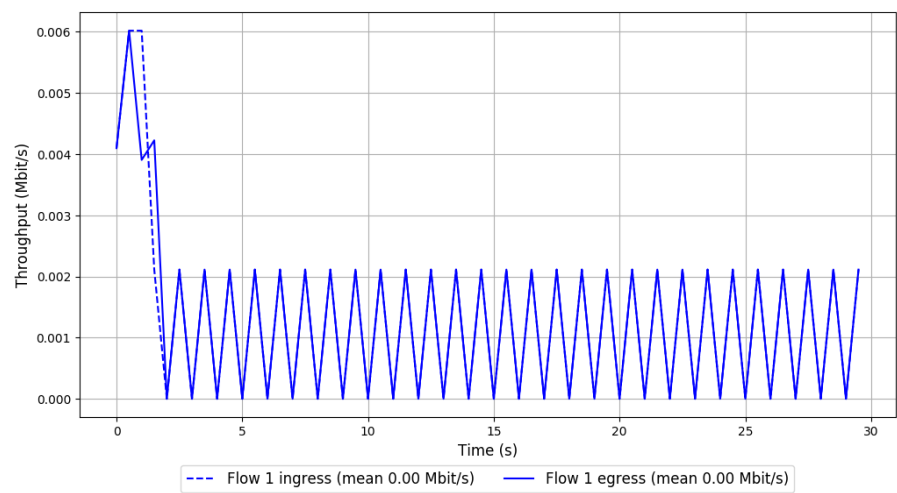


Run 9: Statistics of PCC

Start at: 2018-03-15 04:17:18
End at: 2018-03-15 04:17:48
Local clock offset: -3.822 ms
Remote clock offset: 59.075 ms

Below is generated by plot.py at 2018-03-15 05:10:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 72.765 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 72.765 ms
Loss rate: 0.00%

Run 9: Report of PCC — Data Link

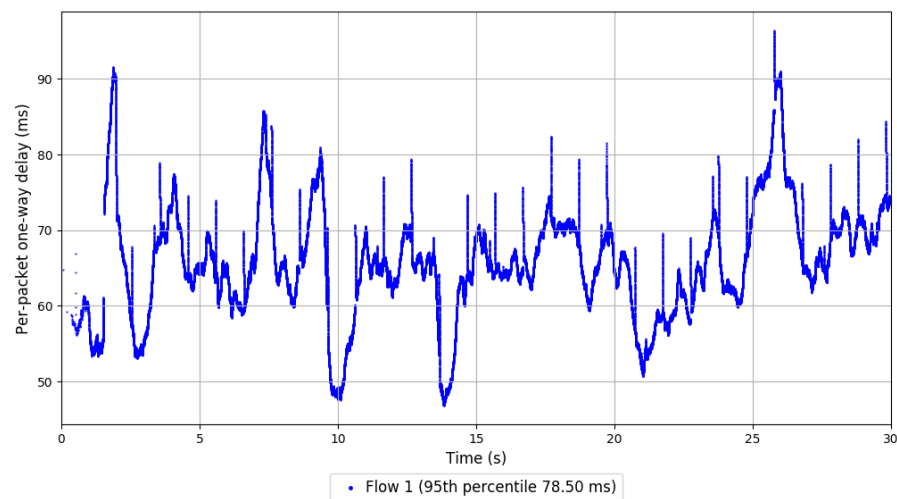
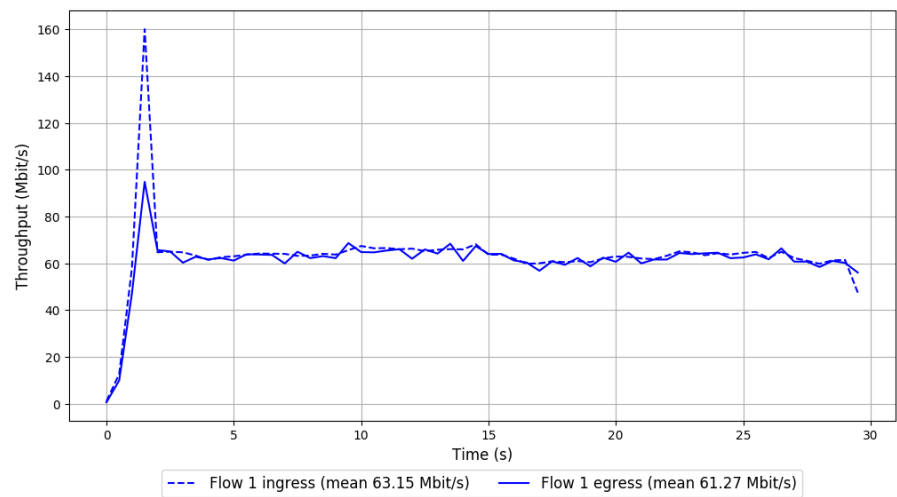


Run 10: Statistics of PCC

Start at: 2018-03-15 04:40:21
End at: 2018-03-15 04:40:51
Local clock offset: -4.075 ms
Remote clock offset: 30.052 ms

Below is generated by plot.py at 2018-03-15 05:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.27 Mbit/s
95th percentile per-packet one-way delay: 78.505 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 61.27 Mbit/s
95th percentile per-packet one-way delay: 78.505 ms
Loss rate: 2.96%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

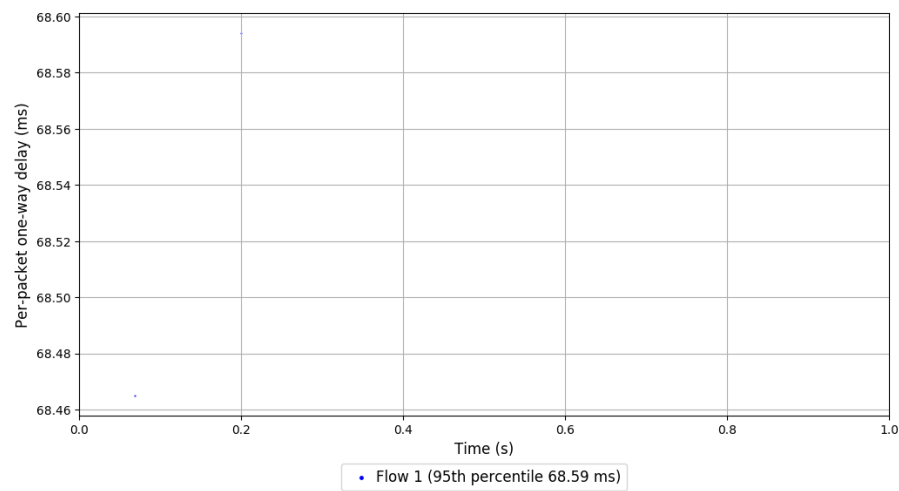
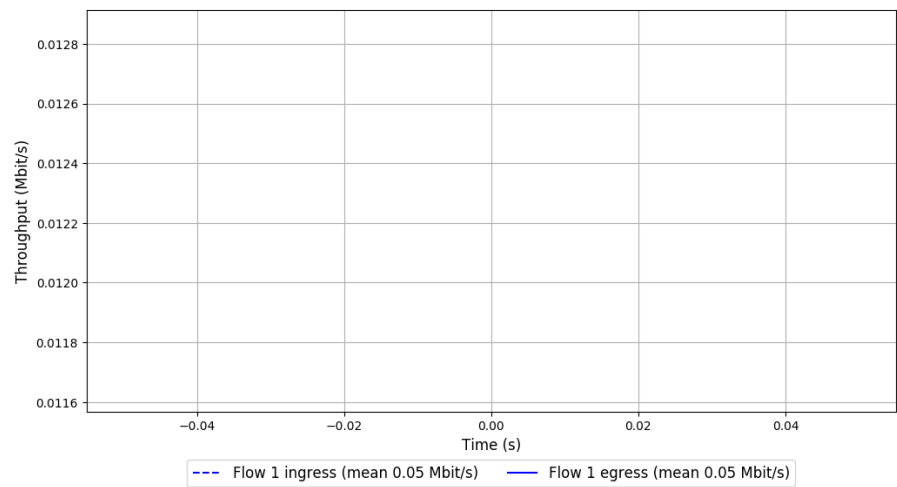
Start at: 2018-03-15 01:00:52

End at: 2018-03-15 01:01:22

Local clock offset: -3.716 ms

Remote clock offset: 14.51 ms

Run 1: Report of QUIC Cubic — Data Link

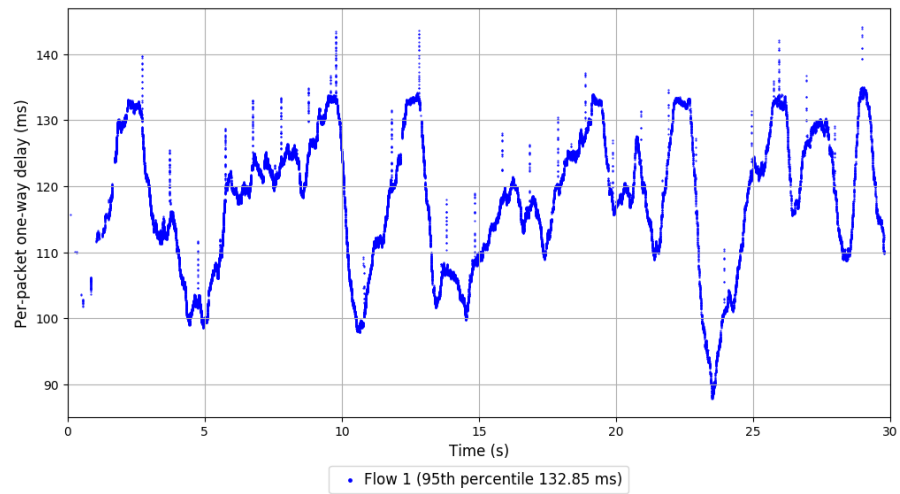
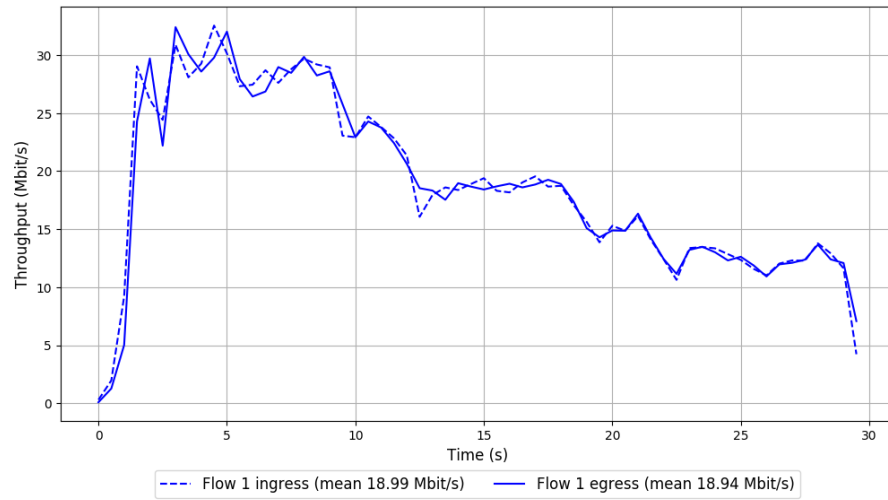


Run 2: Statistics of QUIC Cubic

Start at: 2018-03-15 01:24:31
End at: 2018-03-15 01:25:01
Local clock offset: -1.978 ms
Remote clock offset: -21.175 ms

Below is generated by plot.py at 2018-03-15 05:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 132.853 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 132.853 ms
Loss rate: 0.29%

Run 2: Report of QUIC Cubic — Data Link

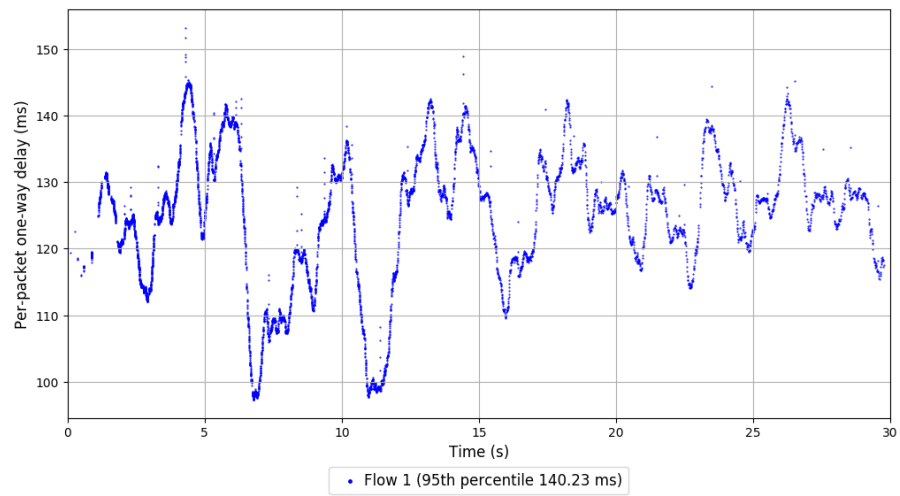
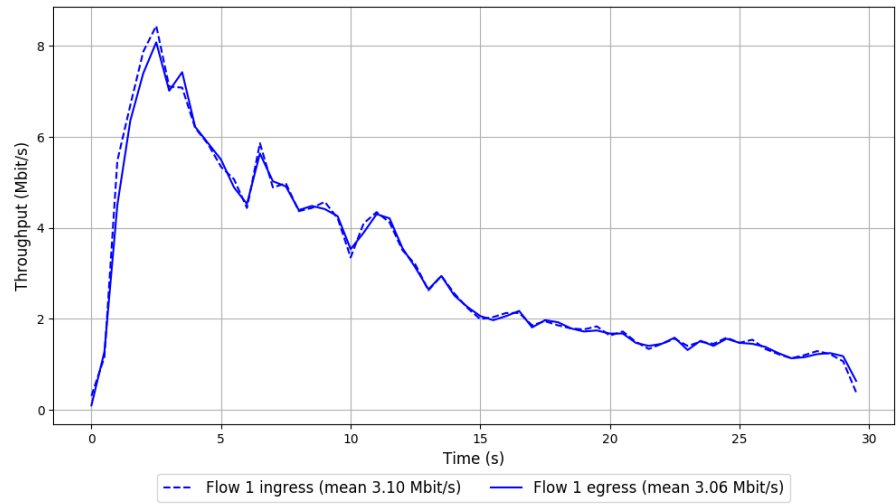


Run 3: Statistics of QUIC Cubic

Start at: 2018-03-15 01:48:20
End at: 2018-03-15 01:48:50
Local clock offset: -3.004 ms
Remote clock offset: 20.769 ms

Below is generated by plot.py at 2018-03-15 05:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 140.228 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 140.228 ms
Loss rate: 1.10%

Run 3: Report of QUIC Cubic — Data Link

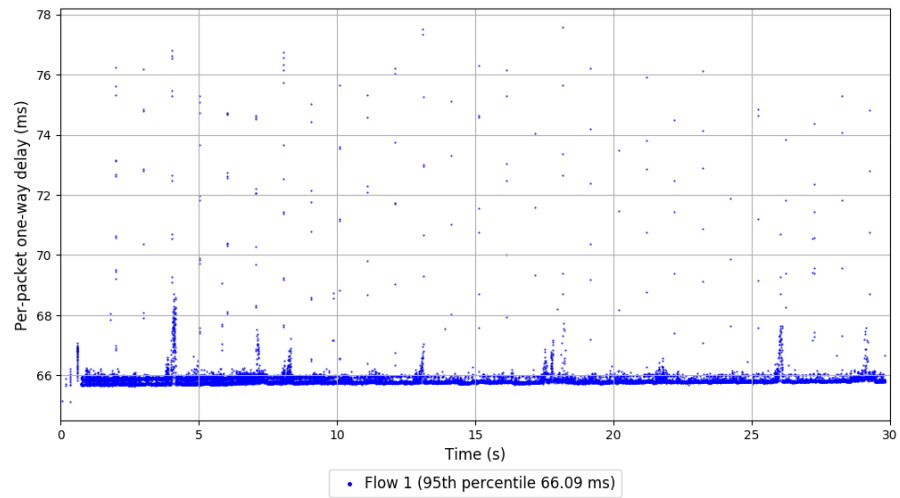
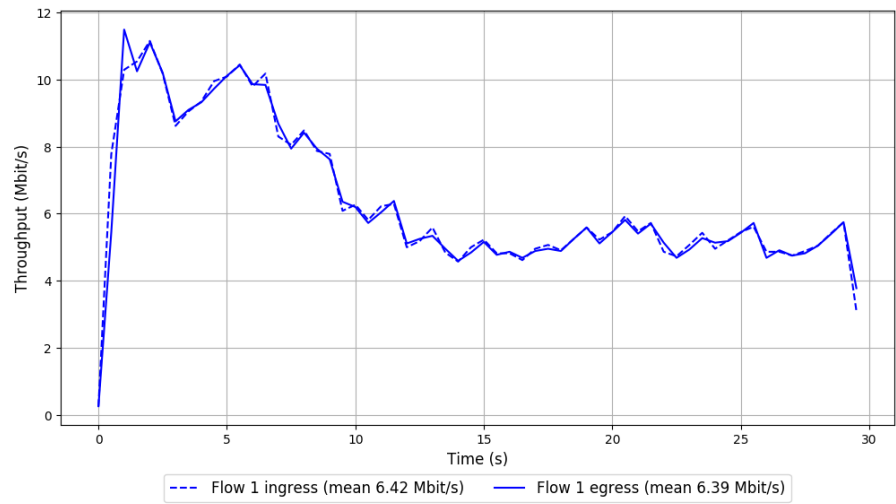


Run 4: Statistics of QUIC Cubic

Start at: 2018-03-15 02:11:59
End at: 2018-03-15 02:12:29
Local clock offset: 7.6 ms
Remote clock offset: 76.127 ms

Below is generated by plot.py at 2018-03-15 05:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 66.092 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 66.092 ms
Loss rate: 0.43%

Run 4: Report of QUIC Cubic — Data Link

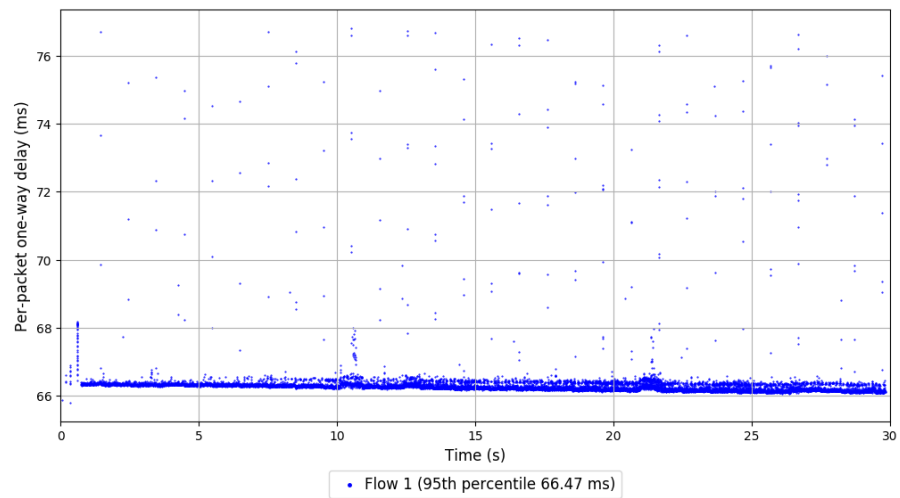
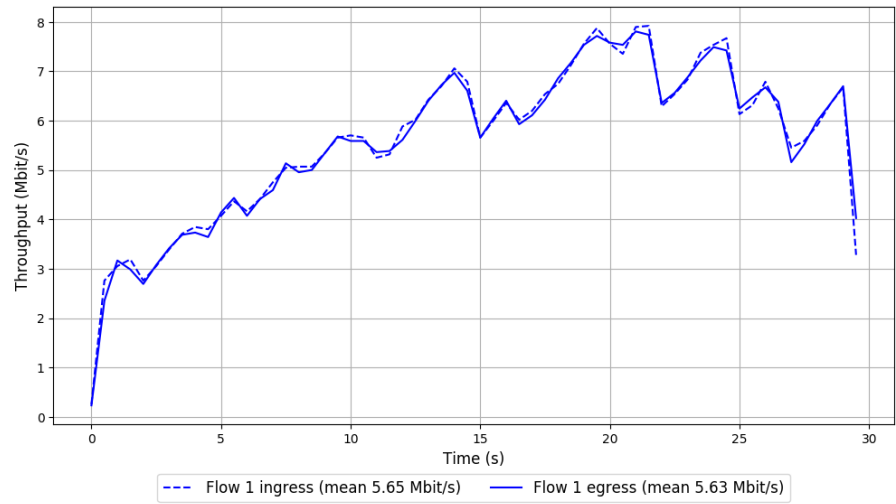


Run 5: Statistics of QUIC Cubic

Start at: 2018-03-15 02:36:19
End at: 2018-03-15 02:36:49
Local clock offset: 3.39 ms
Remote clock offset: 81.734 ms

Below is generated by plot.py at 2018-03-15 05:10:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 66.468 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 66.468 ms
Loss rate: 0.42%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-15 02:59:58

End at: 2018-03-15 03:00:28

Local clock offset: 6.323 ms

Remote clock offset: 89.63 ms

Below is generated by plot.py at 2018-03-15 05:10:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 70.788 ms

Loss rate: 0.86%

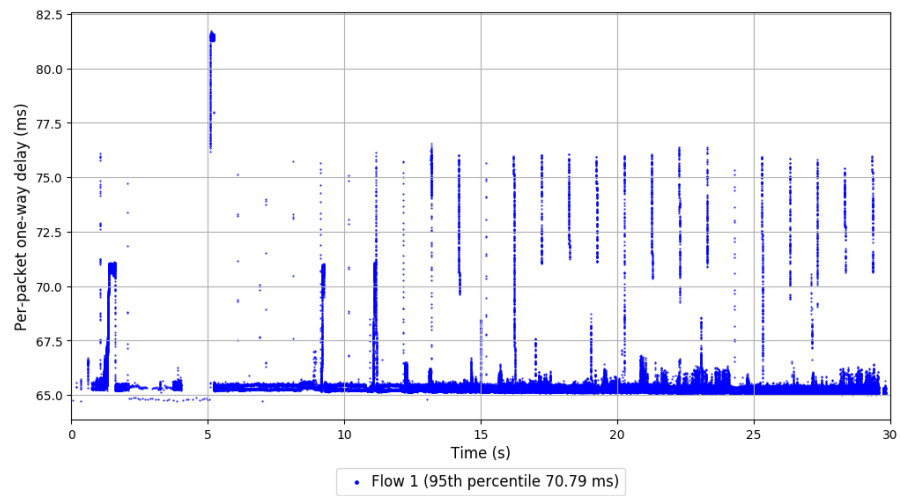
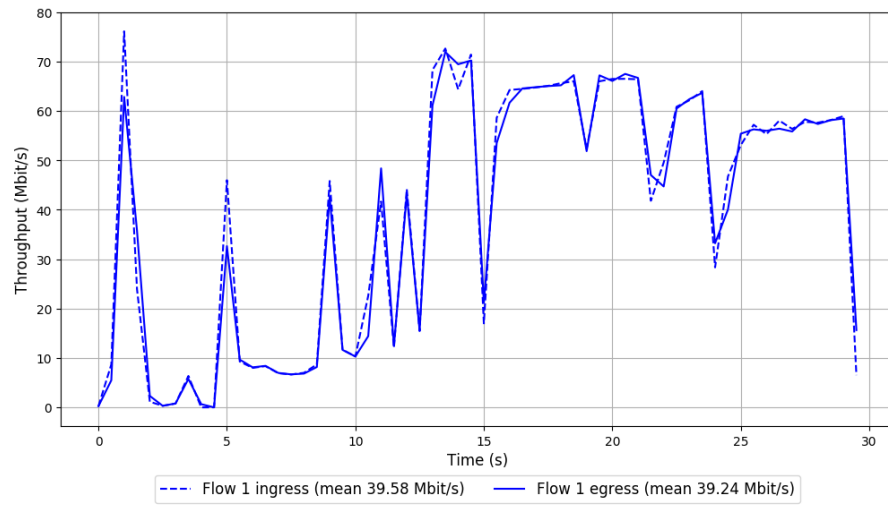
-- Flow 1:

Average throughput: 39.24 Mbit/s

95th percentile per-packet one-way delay: 70.788 ms

Loss rate: 0.86%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-15 03:25:08

End at: 2018-03-15 03:25:38

Local clock offset: 3.946 ms

Remote clock offset: 78.819 ms

Below is generated by plot.py at 2018-03-15 05:10:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 74.521 ms

Loss rate: 0.58%

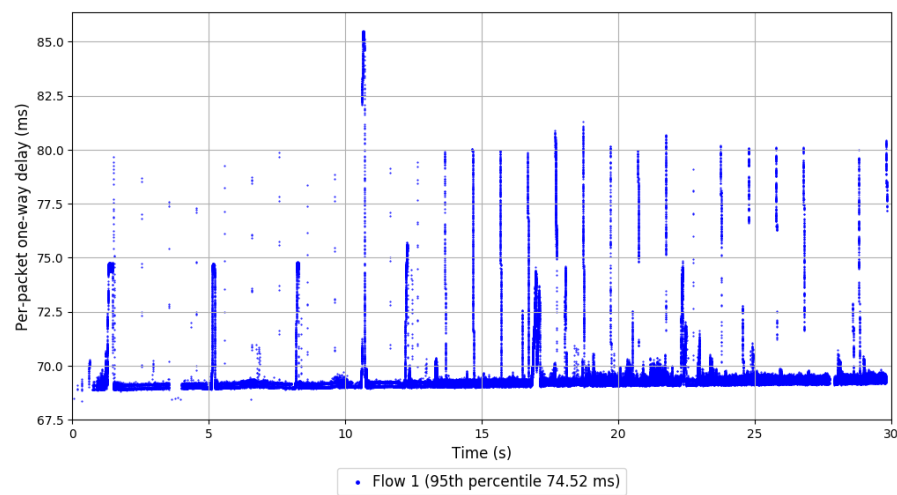
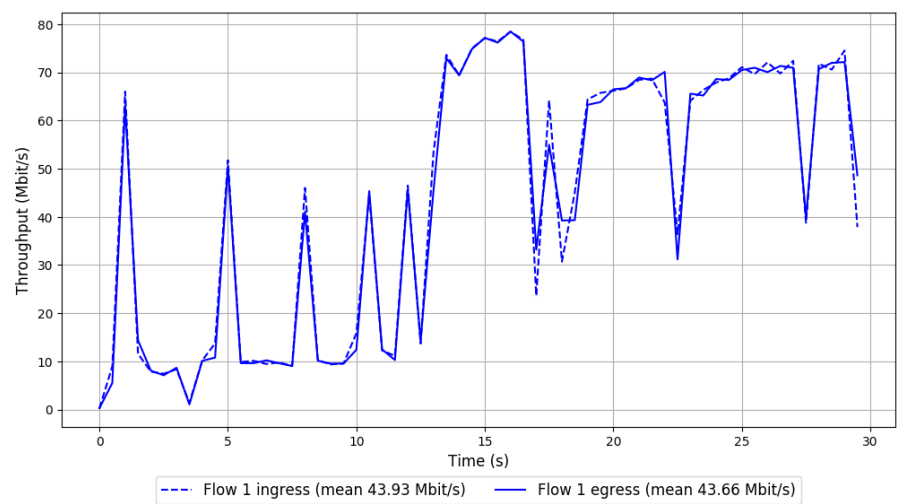
-- Flow 1:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 74.521 ms

Loss rate: 0.58%

Run 7: Report of QUIC Cubic — Data Link

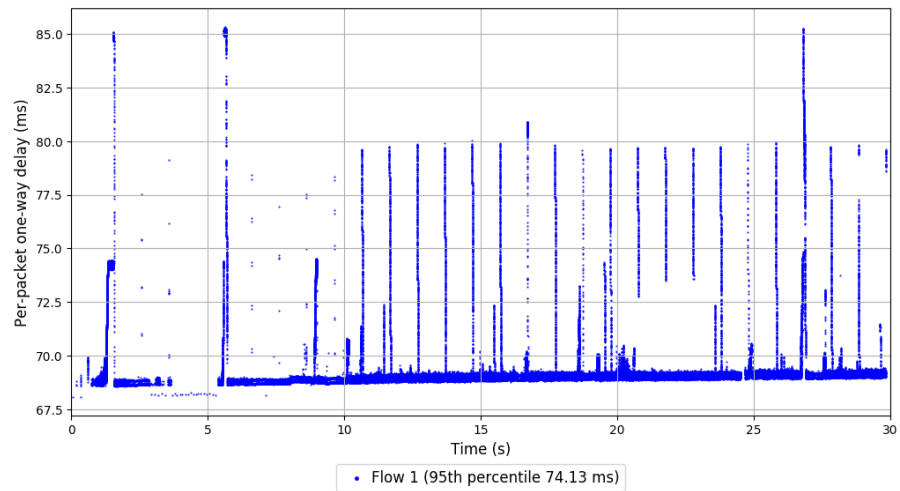
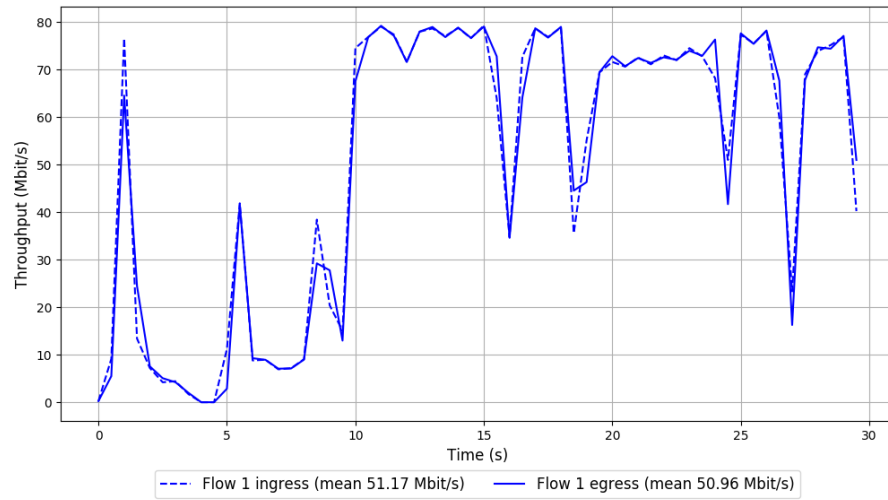


Run 8: Statistics of QUIC Cubic

Start at: 2018-03-15 03:49:35
End at: 2018-03-15 03:50:05
Local clock offset: -0.022 ms
Remote clock offset: 70.451 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.96 Mbit/s
95th percentile per-packet one-way delay: 74.128 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 50.96 Mbit/s
95th percentile per-packet one-way delay: 74.128 ms
Loss rate: 0.39%

Run 8: Report of QUIC Cubic — Data Link

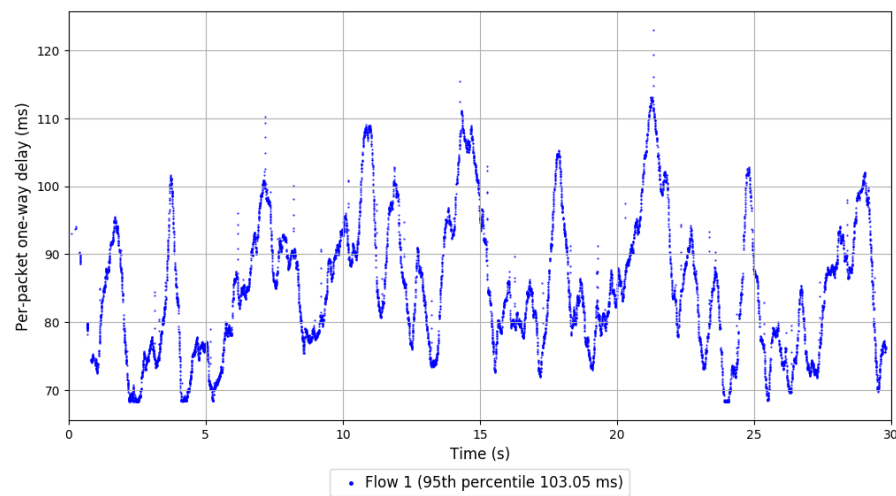
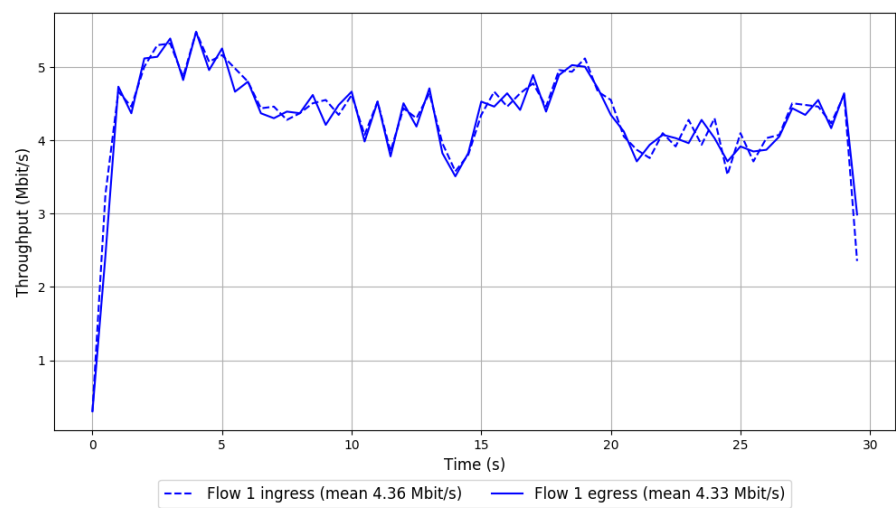


Run 9: Statistics of QUIC Cubic

Start at: 2018-03-15 04:13:43
End at: 2018-03-15 04:14:13
Local clock offset: -3.148 ms
Remote clock offset: 60.292 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 103.051 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 103.051 ms
Loss rate: 0.62%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-15 04:36:46

End at: 2018-03-15 04:37:16

Local clock offset: -3.688 ms

Remote clock offset: 41.827 ms

Below is generated by plot.py at 2018-03-15 05:10:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 84.888 ms

Loss rate: 0.90%

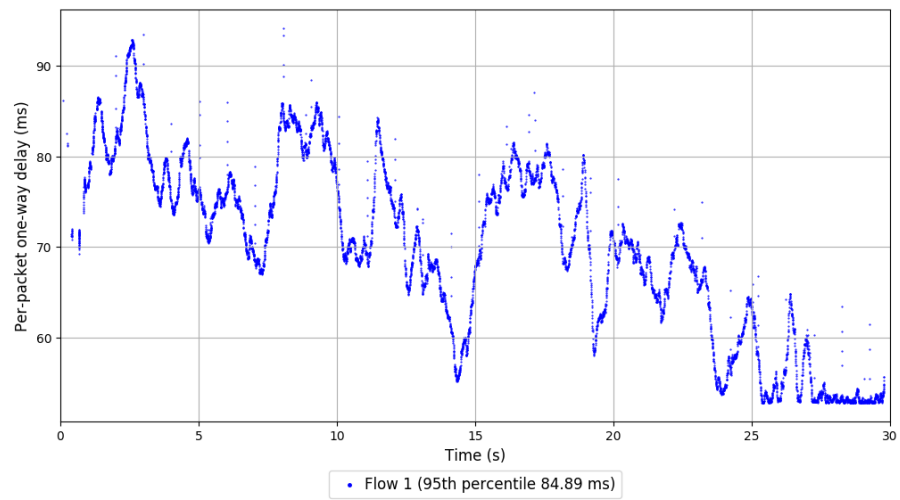
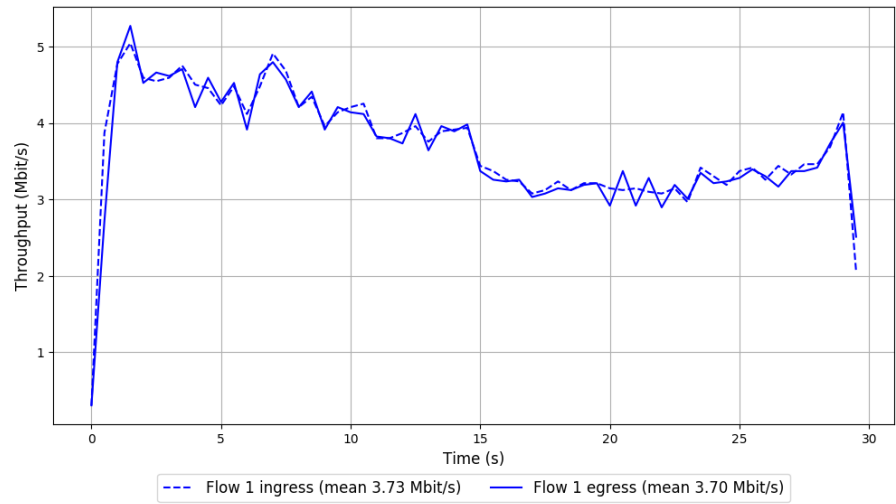
-- Flow 1:

Average throughput: 3.70 Mbit/s

95th percentile per-packet one-way delay: 84.888 ms

Loss rate: 0.90%

Run 10: Report of QUIC Cubic — Data Link

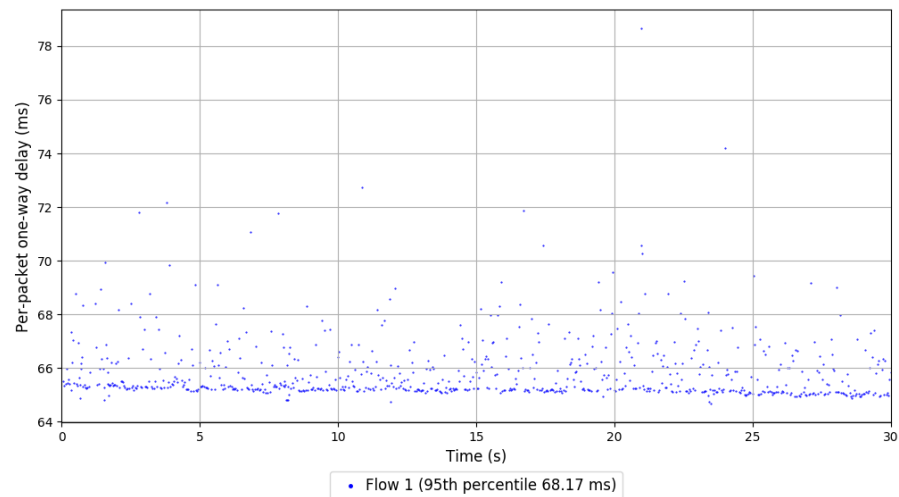
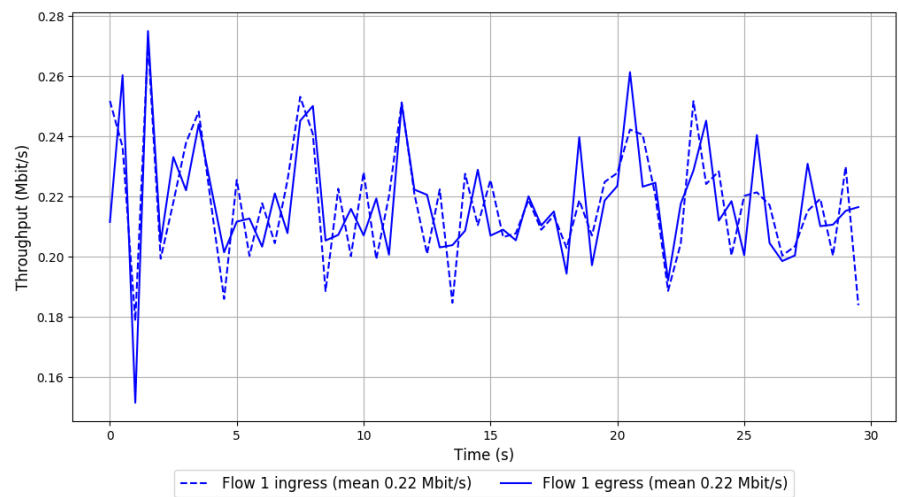


```
Run 1: Statistics of SCReAM

Start at: 2018-03-15 00:48:31
End at: 2018-03-15 00:49:01
Local clock offset: 2.658 ms
Remote clock offset: 12.56 ms

# Below is generated by plot.py at 2018-03-15 05:10:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.173 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

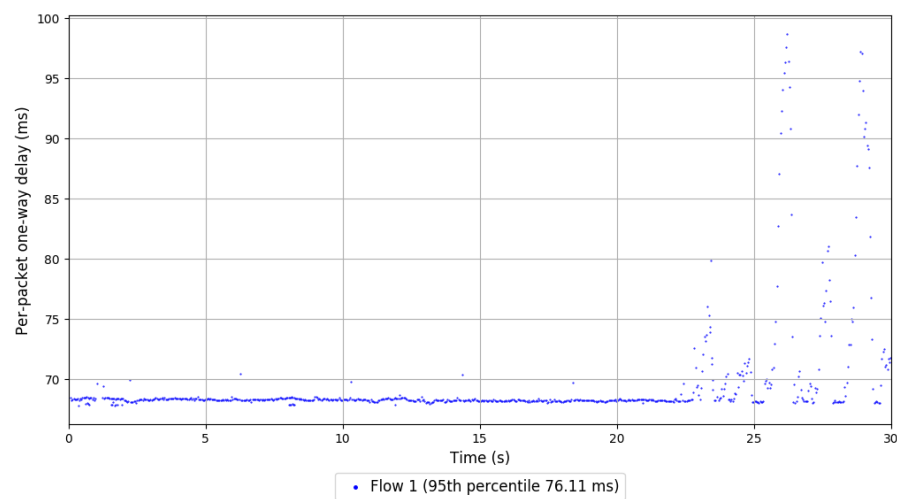
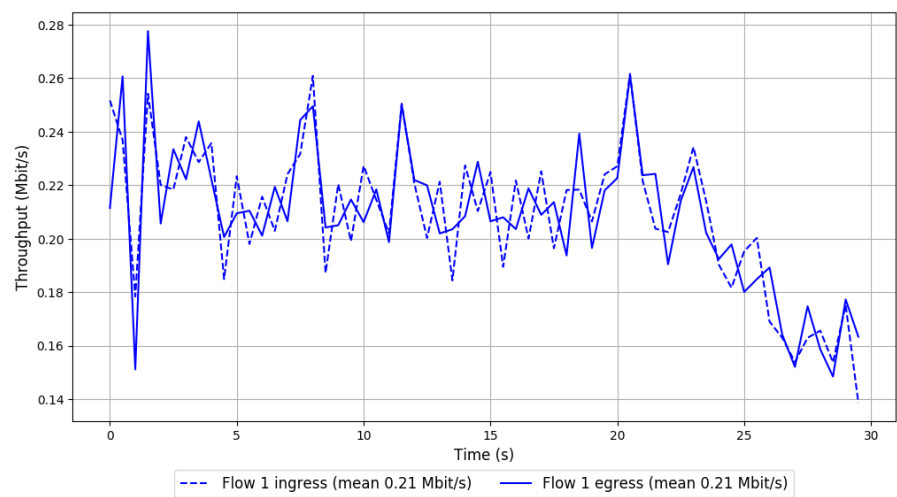


Run 2: Statistics of SCReAM

Start at: 2018-03-15 01:11:42
End at: 2018-03-15 01:12:12
Local clock offset: -5.066 ms
Remote clock offset: 16.023 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 76.107 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 76.107 ms
Loss rate: 0.14%

Run 2: Report of SReAM — Data Link

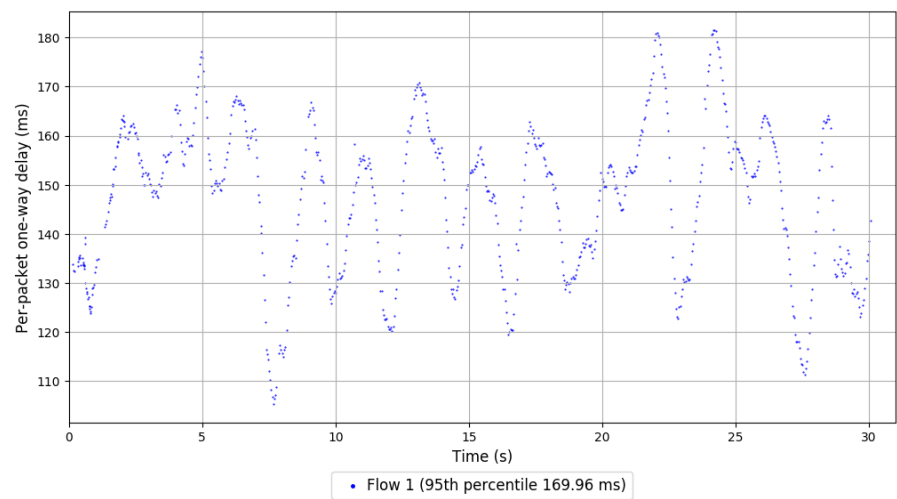
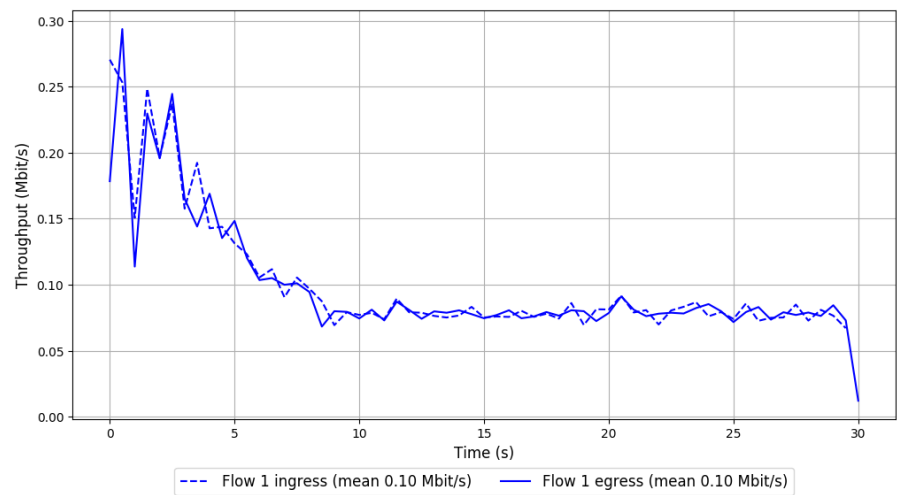


Run 3: Statistics of SCReAM

Start at: 2018-03-15 01:35:40
End at: 2018-03-15 01:36:10
Local clock offset: -2.323 ms
Remote clock offset: 38.973 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 169.956 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 169.956 ms
Loss rate: 1.64%

Run 3: Report of SReAM — Data Link

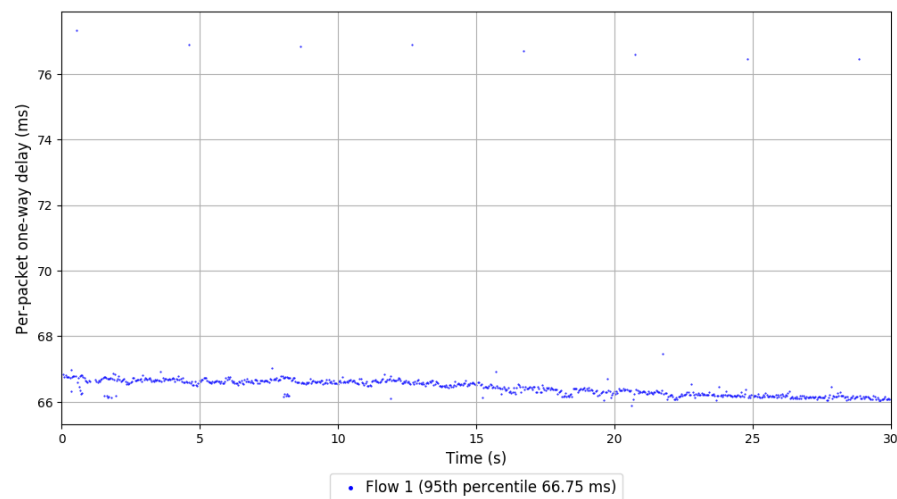
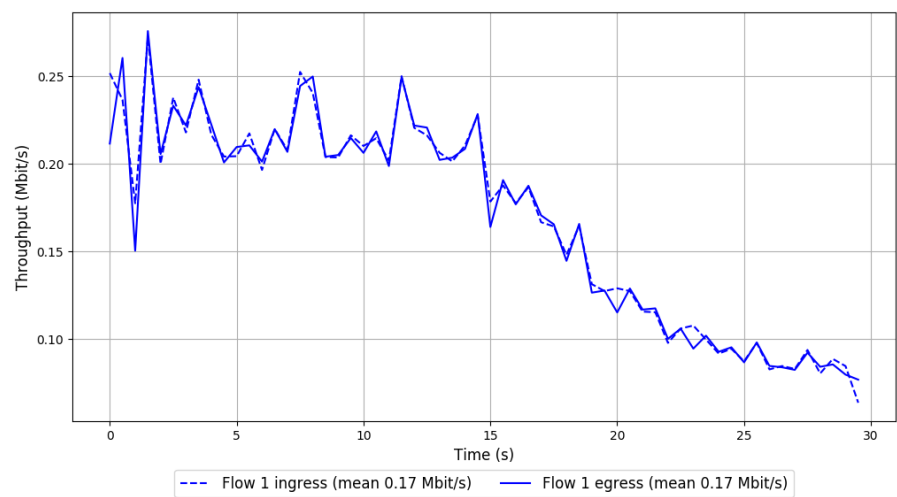


Run 4: Statistics of SCReAM

Start at: 2018-03-15 01:59:40
End at: 2018-03-15 02:00:10
Local clock offset: 3.224 ms
Remote clock offset: 75.879 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 66.749 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 66.749 ms
Loss rate: 0.55%

Run 4: Report of SReAM — Data Link

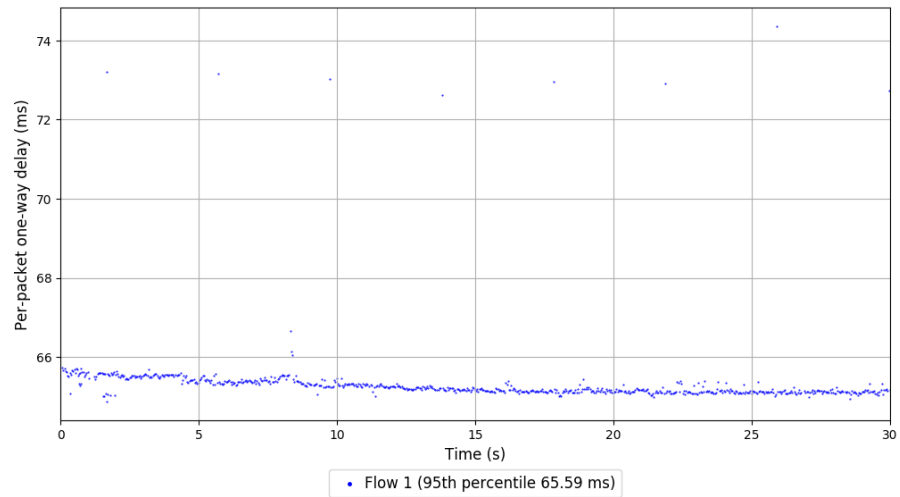
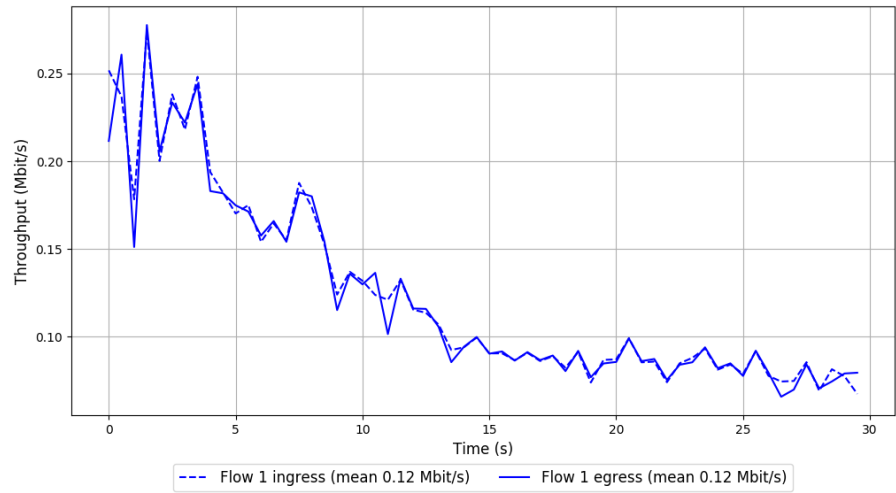


Run 5: Statistics of SCReAM

Start at: 2018-03-15 02:23:12
End at: 2018-03-15 02:23:42
Local clock offset: 9.404 ms
Remote clock offset: 78.068 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 65.589 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 65.589 ms
Loss rate: 0.94%

Run 5: Report of SReAM — Data Link

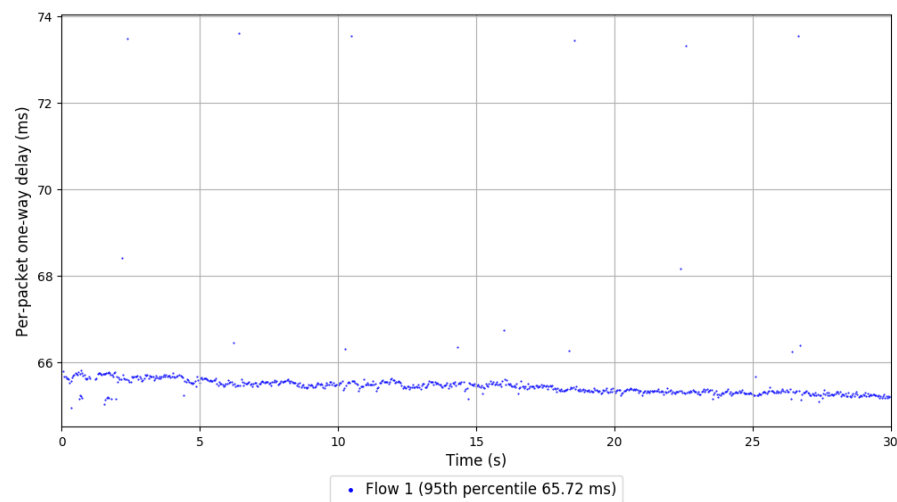
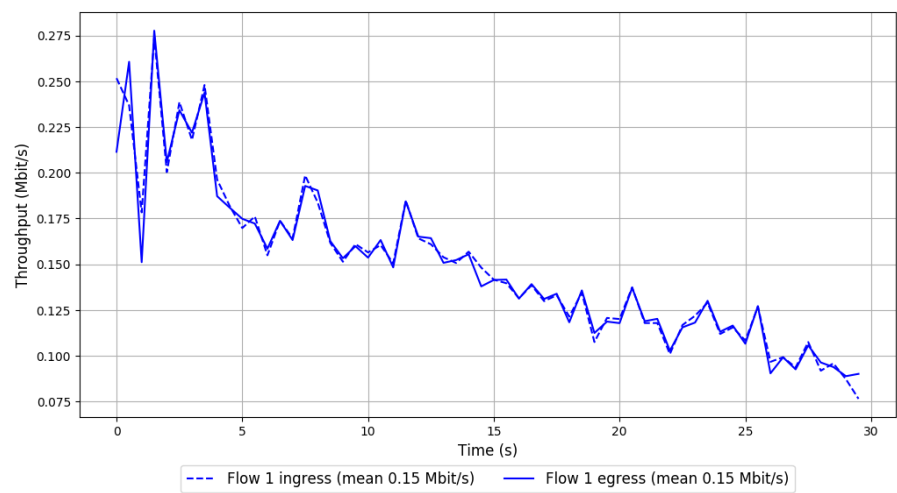


Run 6: Statistics of SCReAM

Start at: 2018-03-15 02:47:36
End at: 2018-03-15 02:48:06
Local clock offset: 5.919 ms
Remote clock offset: 85.615 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 65.716 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 65.716 ms
Loss rate: 0.46%

Run 6: Report of SReAM — Data Link

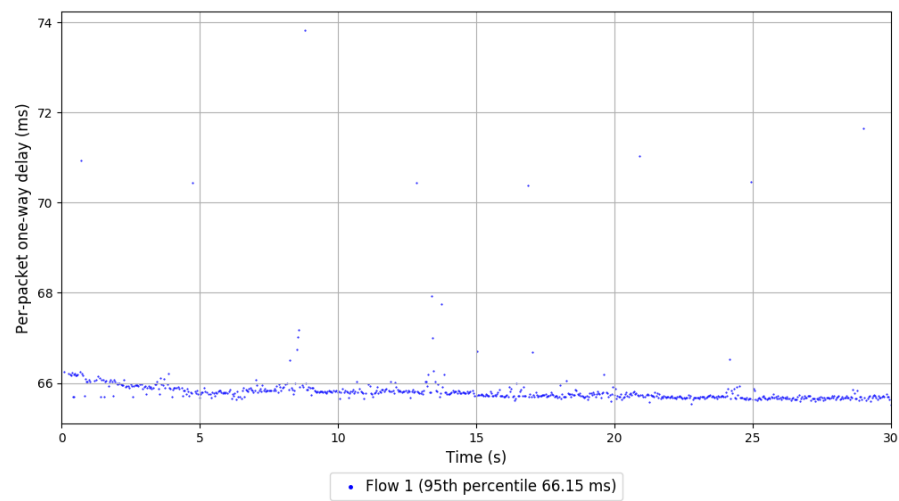
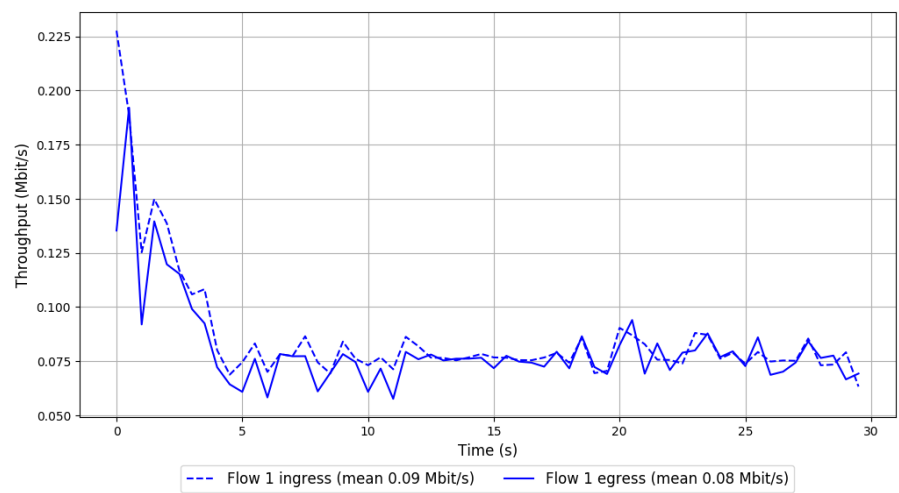


Run 7: Statistics of SCReAM

Start at: 2018-03-15 03:11:40
End at: 2018-03-15 03:12:10
Local clock offset: 6.058 ms
Remote clock offset: 94.537 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 66.151 ms
Loss rate: 6.28%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 66.151 ms
Loss rate: 6.28%

Run 7: Report of SReAM — Data Link

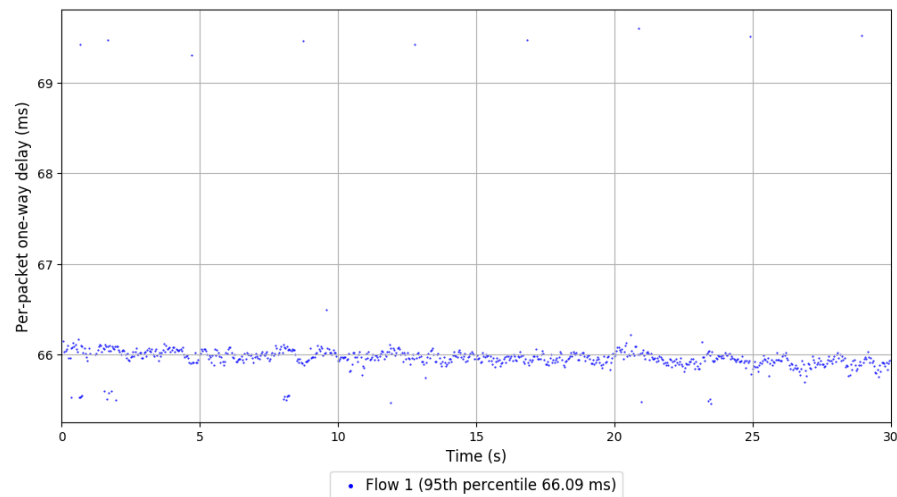
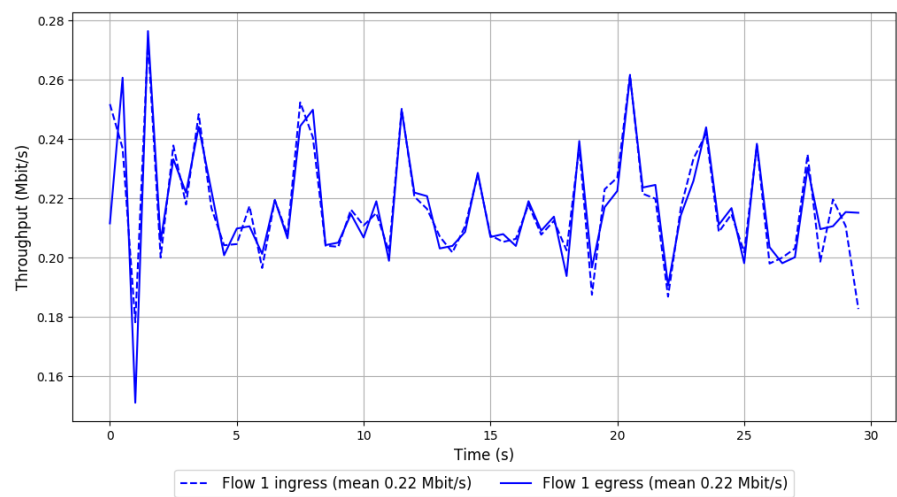


Run 8: Statistics of SCReAM

Start at: 2018-03-15 03:36:01
End at: 2018-03-15 03:36:31
Local clock offset: 5.377 ms
Remote clock offset: 74.812 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.089 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

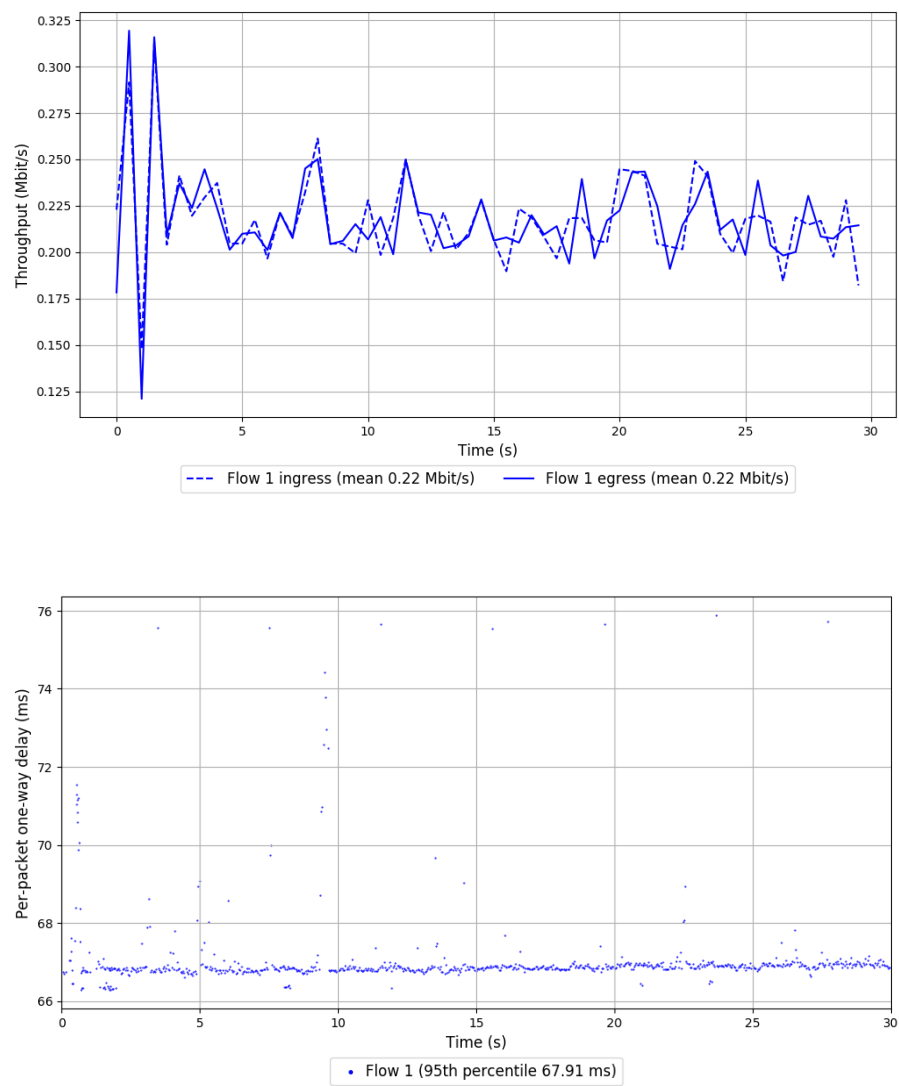


Run 9: Statistics of SCReAM

Start at: 2018-03-15 04:01:00
End at: 2018-03-15 04:01:30
Local clock offset: 1.428 ms
Remote clock offset: 63.722 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.907 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

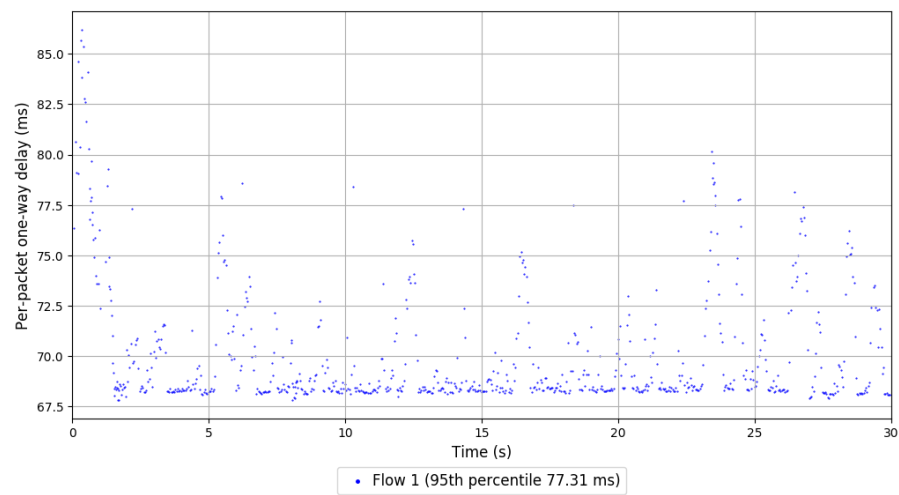
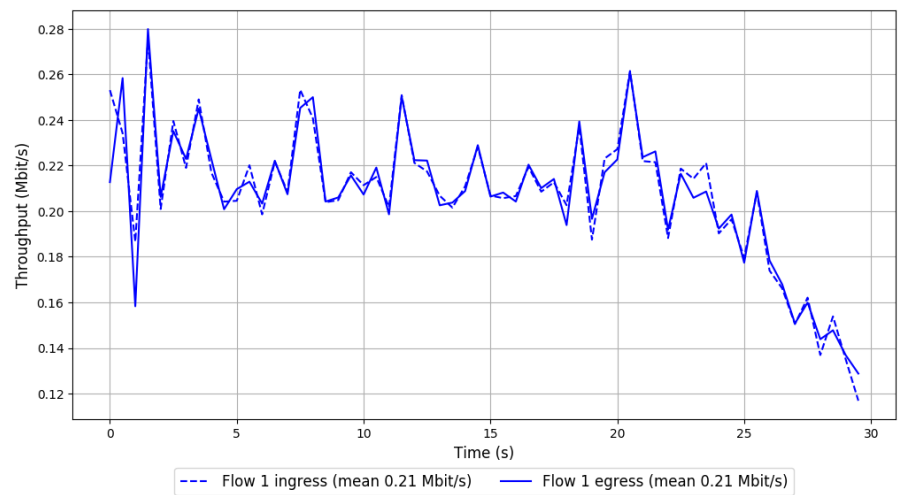


Run 10: Statistics of SReAM

Start at: 2018-03-15 04:24:29
End at: 2018-03-15 04:24:59
Local clock offset: -4.948 ms
Remote clock offset: 57.556 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 77.312 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 77.312 ms
Loss rate: 0.25%

Run 10: Report of SReAM — Data Link

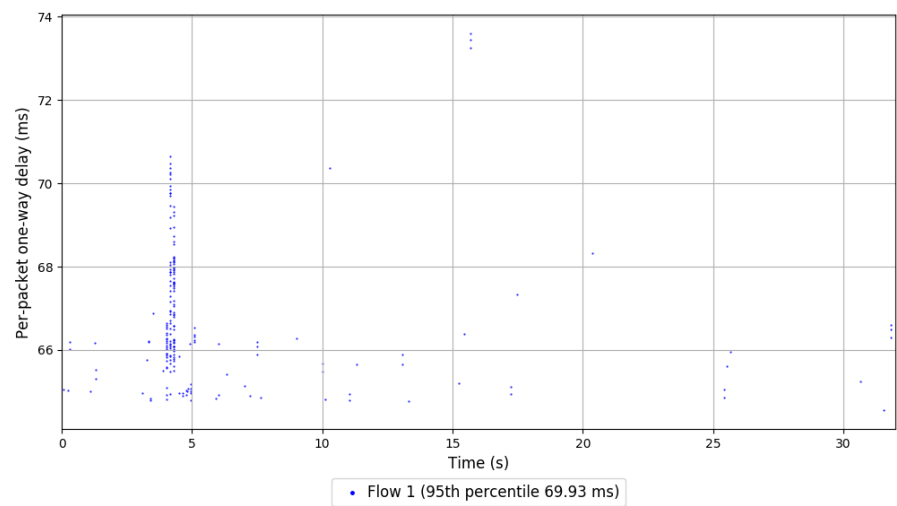
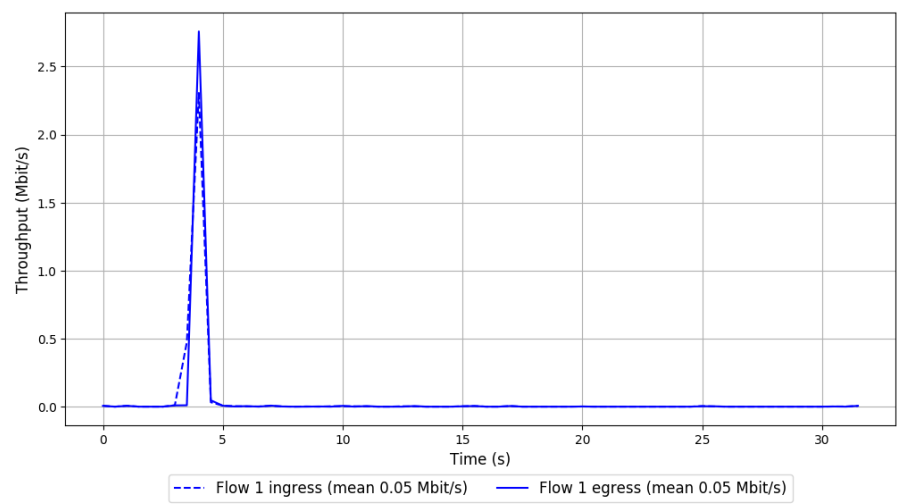


Run 1: Statistics of WebRTC media

Start at: 2018-03-15 00:42:32
End at: 2018-03-15 00:43:02
Local clock offset: 5.846 ms
Remote clock offset: 11.305 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 69.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 69.934 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

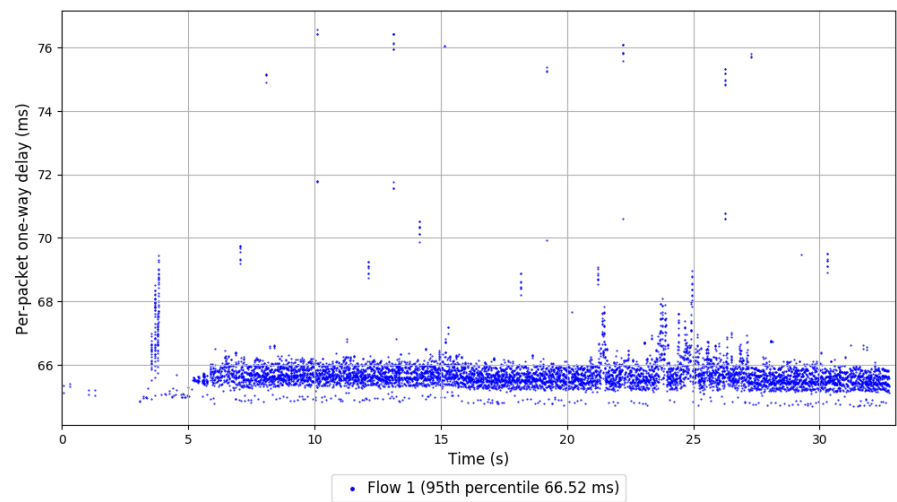
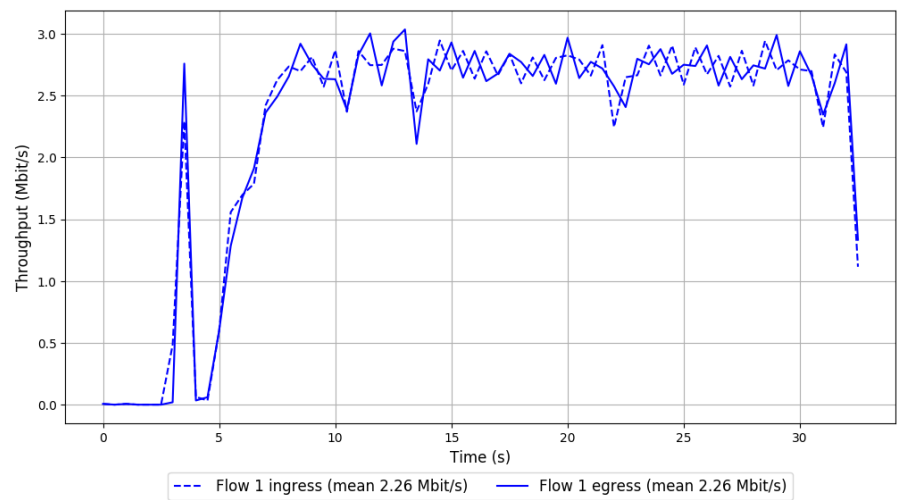


Run 2: Statistics of WebRTC media

Start at: 2018-03-15 01:05:40
End at: 2018-03-15 01:06:10
Local clock offset: -1.328 ms
Remote clock offset: 15.031 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 66.518 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 66.518 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

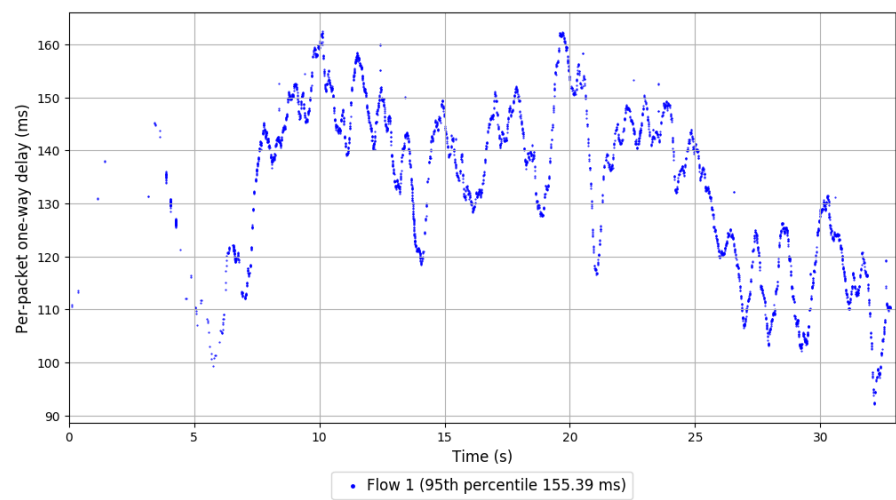
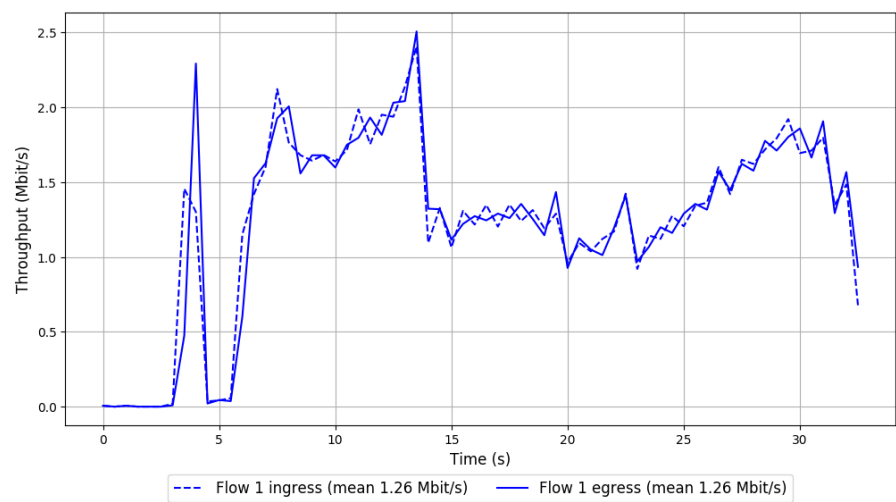


Run 3: Statistics of WebRTC media

Start at: 2018-03-15 01:29:31
End at: 2018-03-15 01:30:01
Local clock offset: -1.971 ms
Remote clock offset: 12.222 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 155.387 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 155.387 ms
Loss rate: 0.09%

Run 3: Report of WebRTC media — Data Link

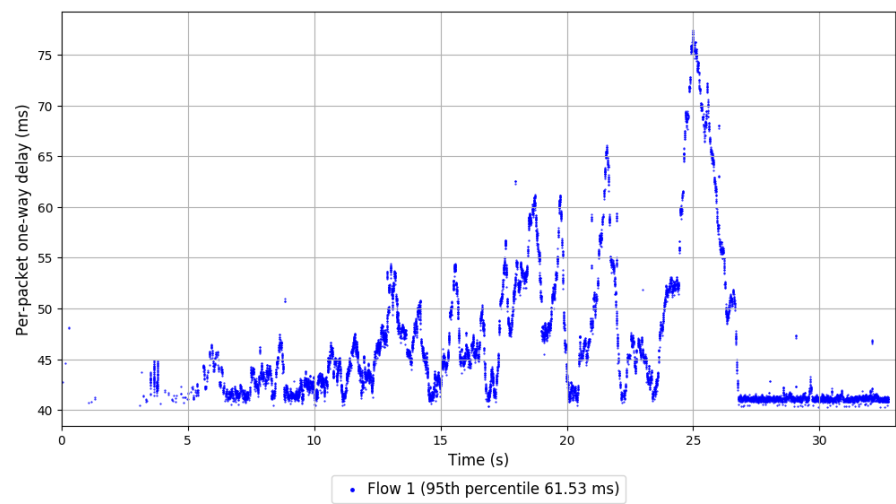
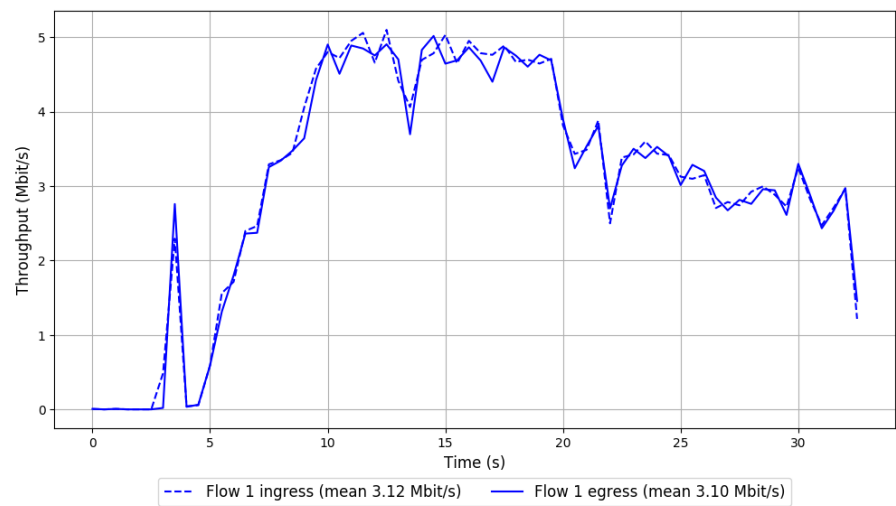


Run 4: Statistics of WebRTC media

Start at: 2018-03-15 01:53:22
End at: 2018-03-15 01:53:52
Local clock offset: -0.087 ms
Remote clock offset: 44.888 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 61.530 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 61.530 ms
Loss rate: 0.86%

Run 4: Report of WebRTC media — Data Link

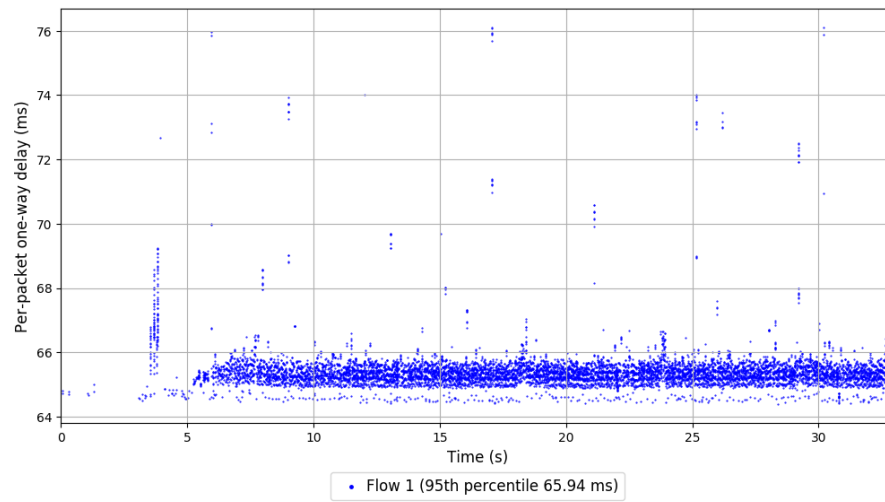
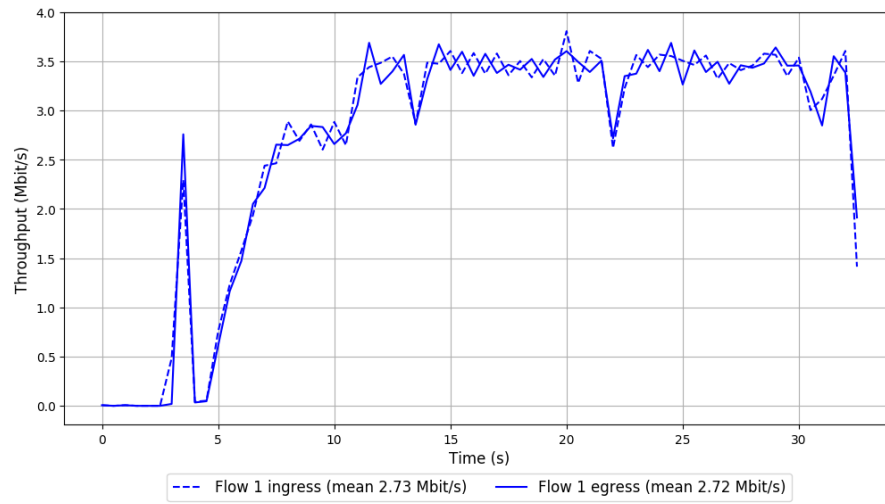


Run 5: Statistics of WebRTC media

Start at: 2018-03-15 02:16:49
End at: 2018-03-15 02:17:19
Local clock offset: 8.565 ms
Remote clock offset: 76.109 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 65.945 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 2.72 Mbit/s
95th percentile per-packet one-way delay: 65.945 ms
Loss rate: 0.28%

Run 5: Report of WebRTC media — Data Link

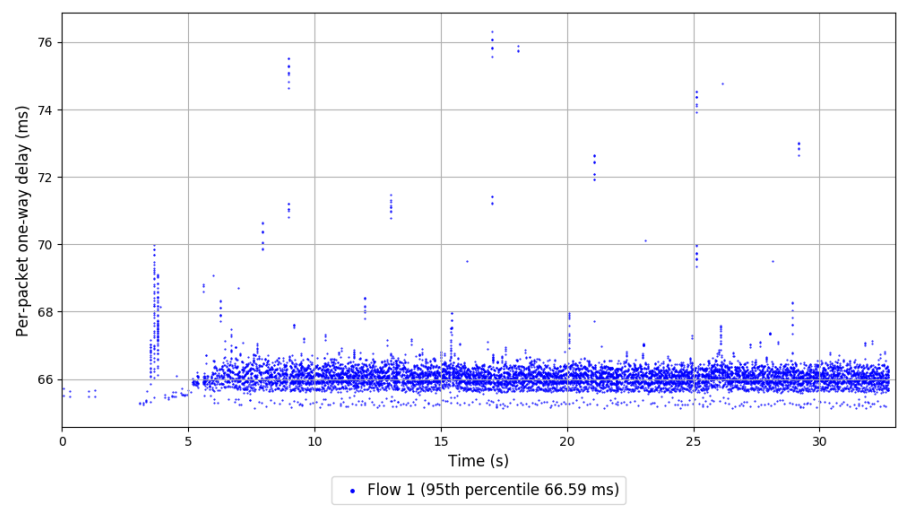
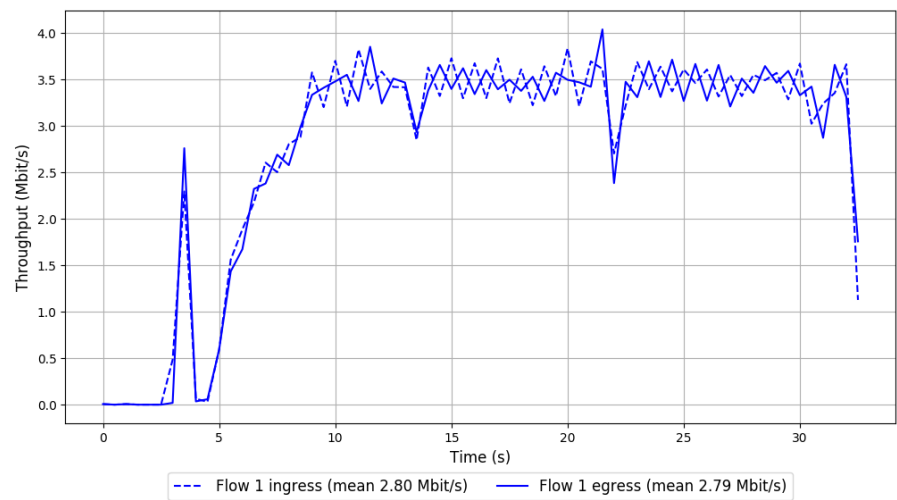


Run 6: Statistics of WebRTC media

Start at: 2018-03-15 02:41:13
End at: 2018-03-15 02:41:43
Local clock offset: 6.087 ms
Remote clock offset: 84.701 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 66.591 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 66.591 ms
Loss rate: 0.25%

Run 6: Report of WebRTC media — Data Link

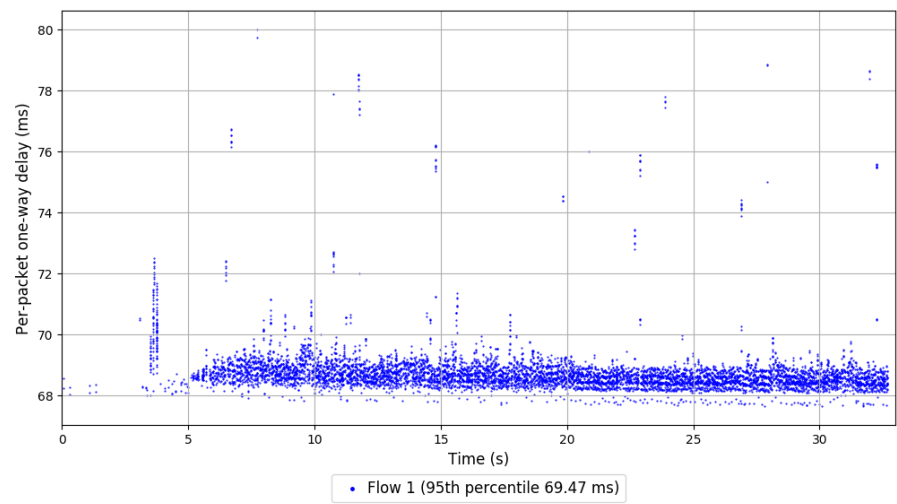
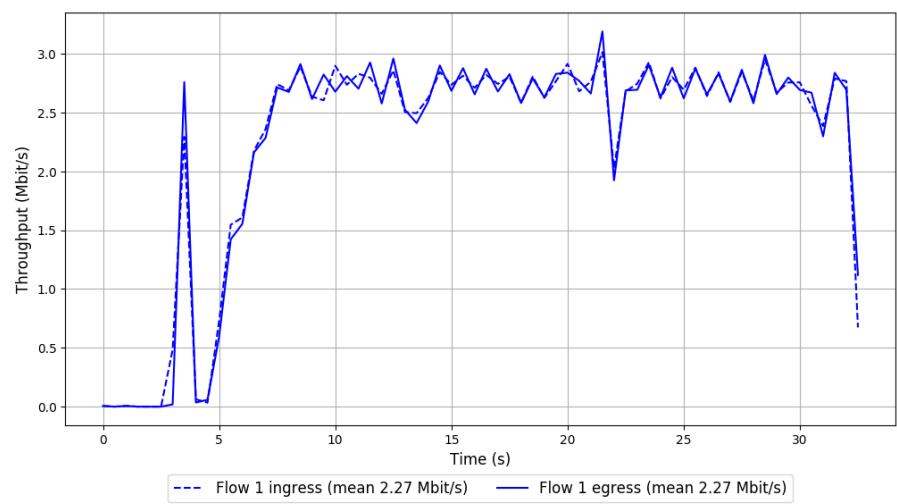


Run 7: Statistics of WebRTC media

Start at: 2018-03-15 03:04:48
End at: 2018-03-15 03:05:18
Local clock offset: 3.373 ms
Remote clock offset: 91.475 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 69.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 69.465 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

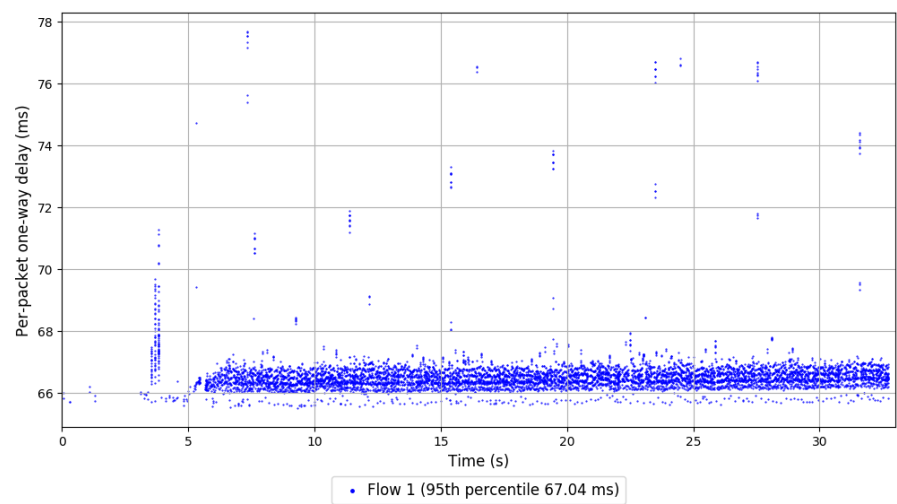
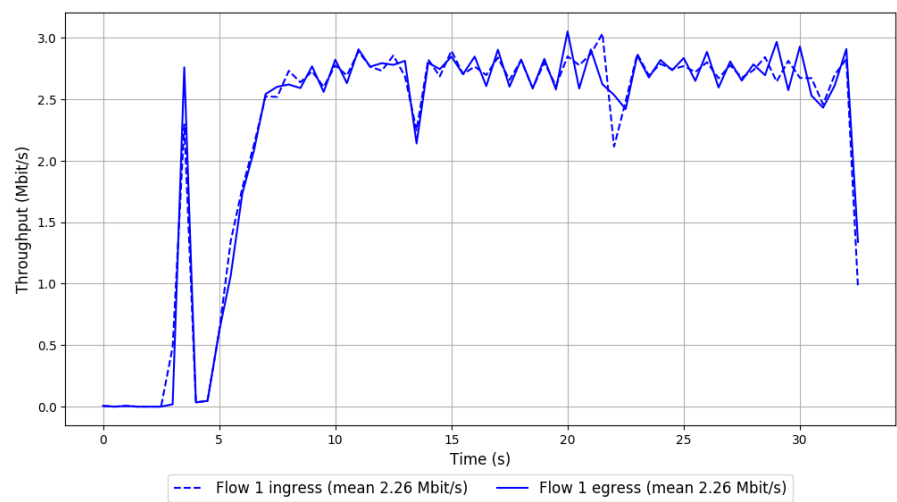


Run 8: Statistics of WebRTC media

Start at: 2018-03-15 03:29:58
End at: 2018-03-15 03:30:28
Local clock offset: 6.591 ms
Remote clock offset: 76.397 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 67.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 67.037 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

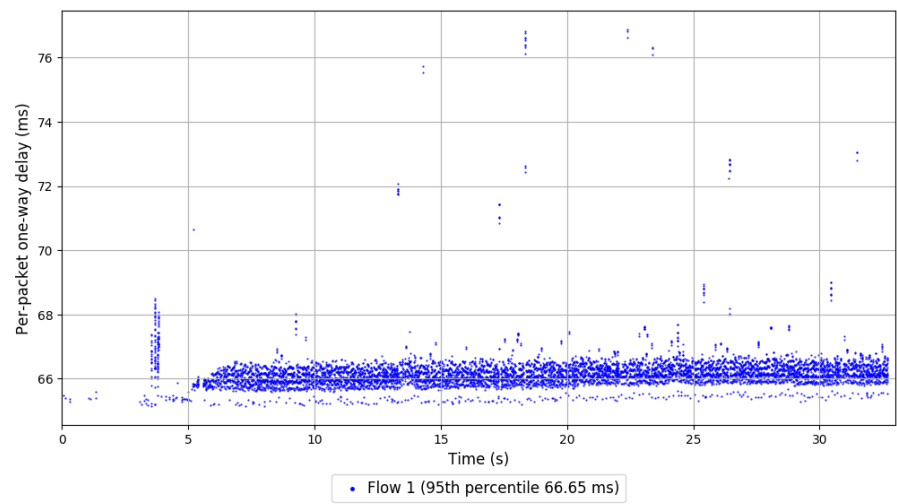
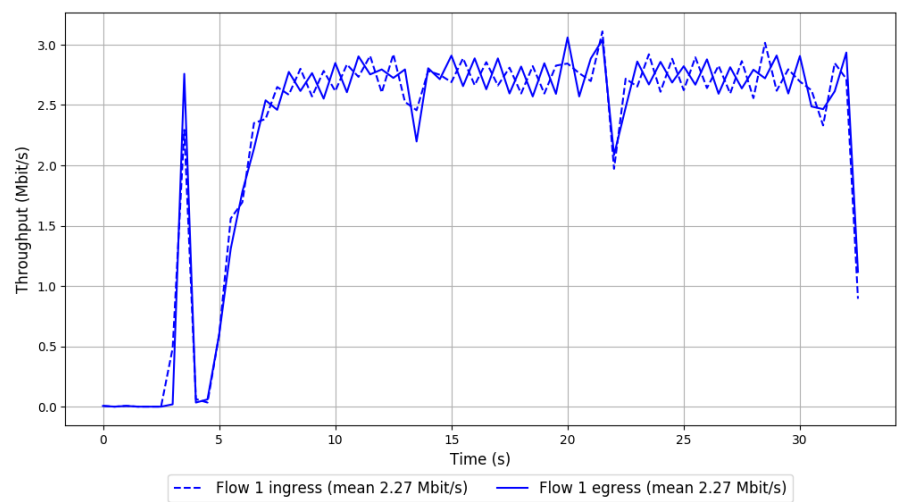


Run 9: Statistics of WebRTC media

Start at: 2018-03-15 03:54:28
End at: 2018-03-15 03:54:58
Local clock offset: 2.444 ms
Remote clock offset: 66.755 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 66.648 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 66.648 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-15 04:18:28

End at: 2018-03-15 04:18:58

Local clock offset: -1.401 ms

Remote clock offset: 59.34 ms

Below is generated by plot.py at 2018-03-15 05:10:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 75.627 ms

Loss rate: 1.19%

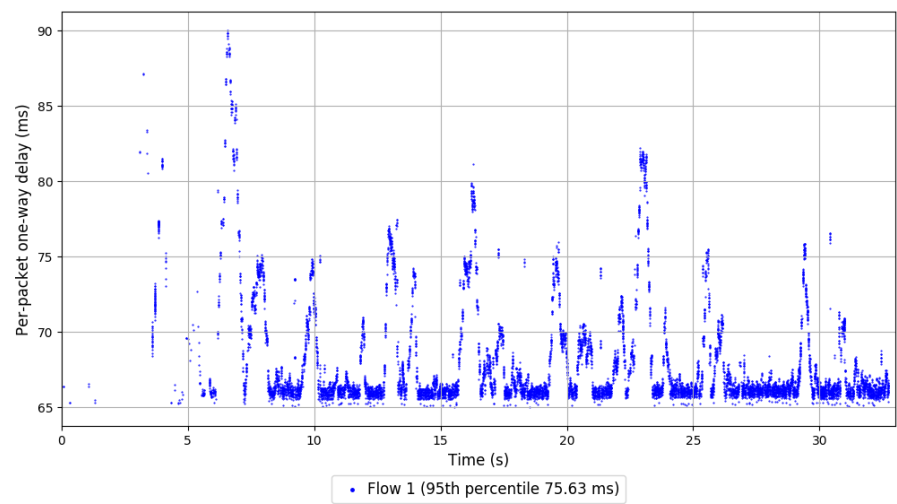
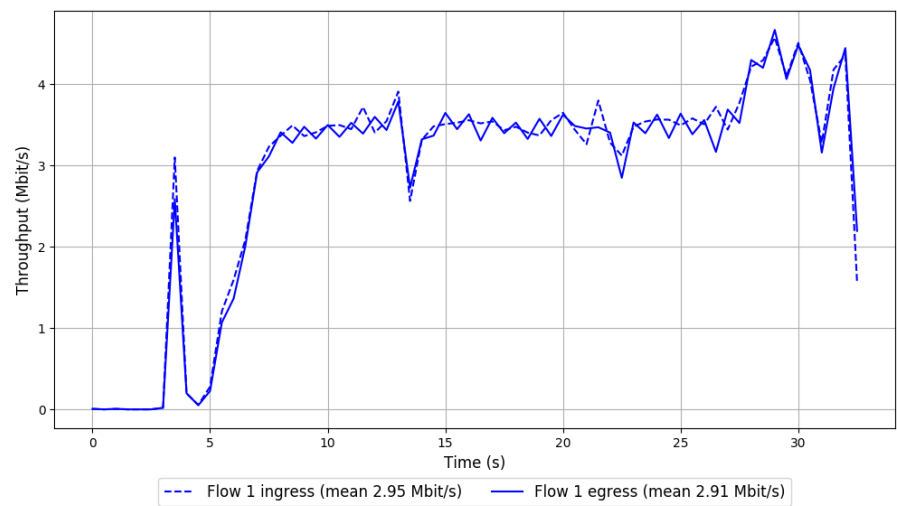
-- Flow 1:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 75.627 ms

Loss rate: 1.19%

Run 10: Report of WebRTC media — Data Link

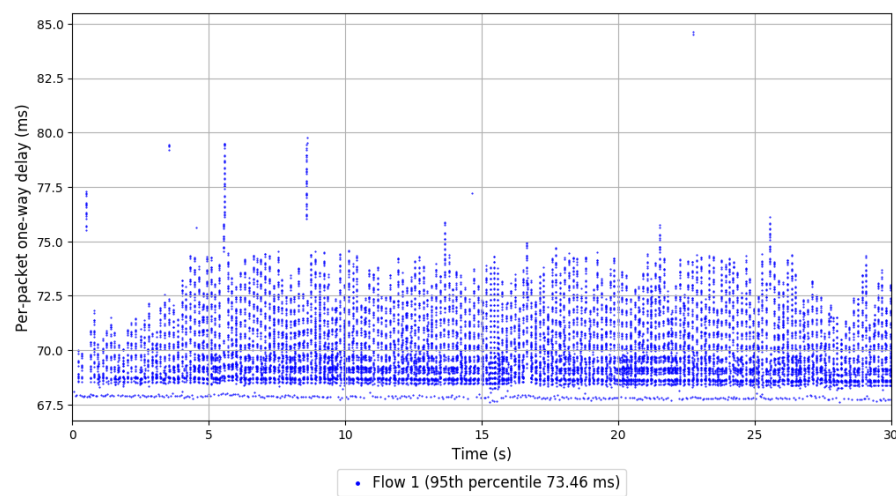
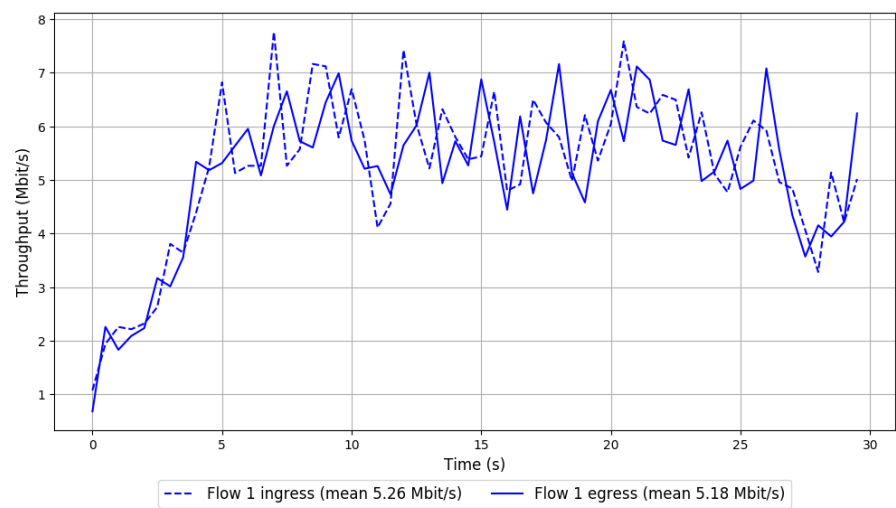


Run 1: Statistics of Sprout

Start at: 2018-03-15 01:02:02
End at: 2018-03-15 01:02:32
Local clock offset: -3.784 ms
Remote clock offset: 14.658 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 73.456 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 73.456 ms
Loss rate: 1.42%

Run 1: Report of Sprout — Data Link

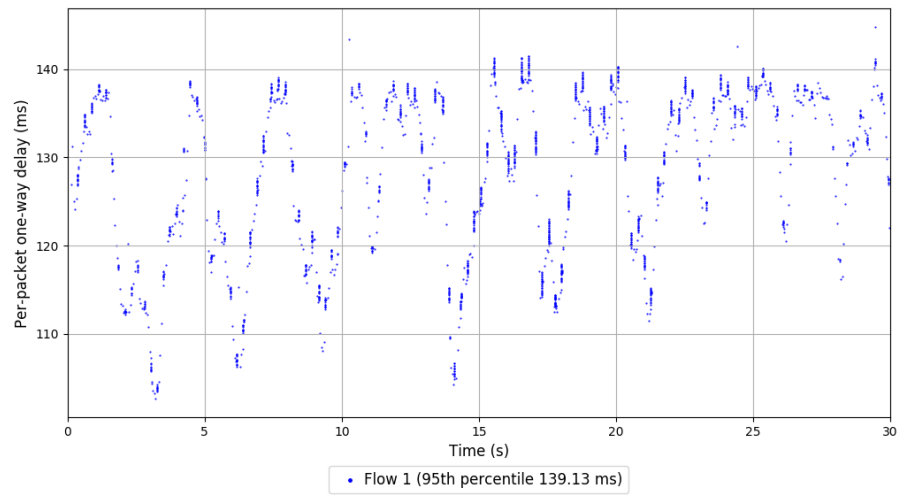
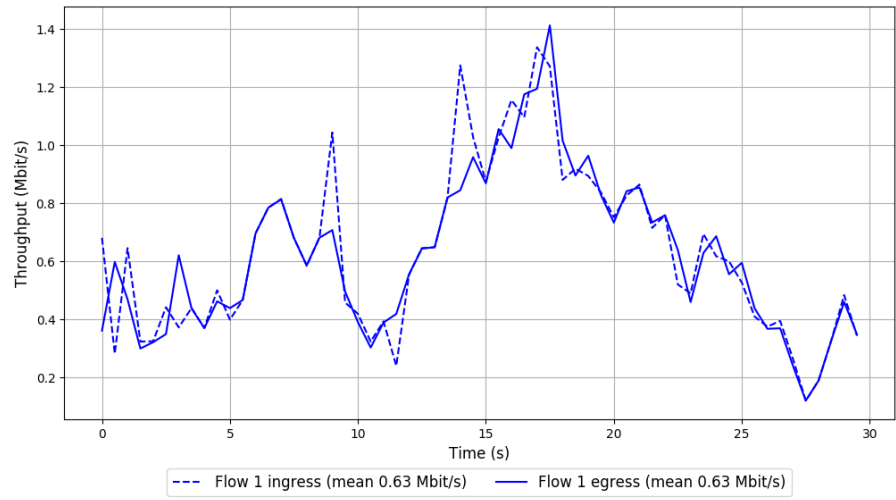


Run 2: Statistics of Sprout

Start at: 2018-03-15 01:25:45
End at: 2018-03-15 01:26:15
Local clock offset: -4.799 ms
Remote clock offset: -18.952 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 139.132 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 139.132 ms
Loss rate: 1.43%

Run 2: Report of Sprout — Data Link

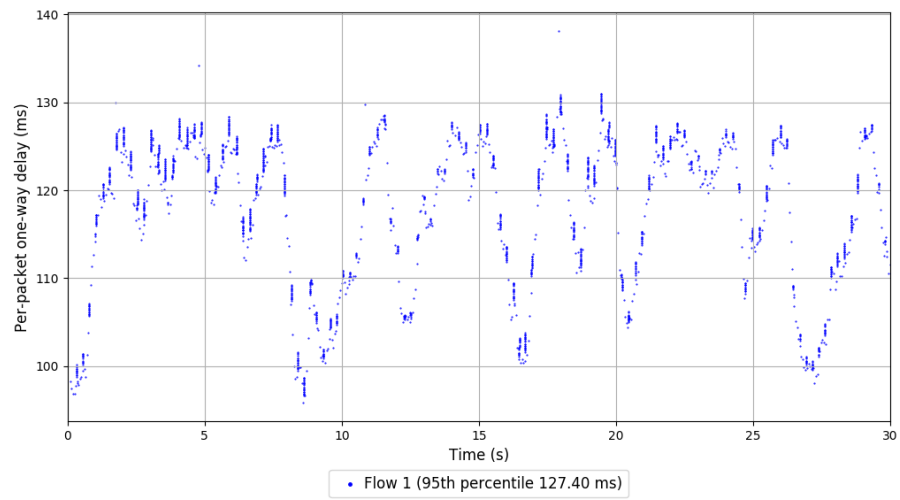
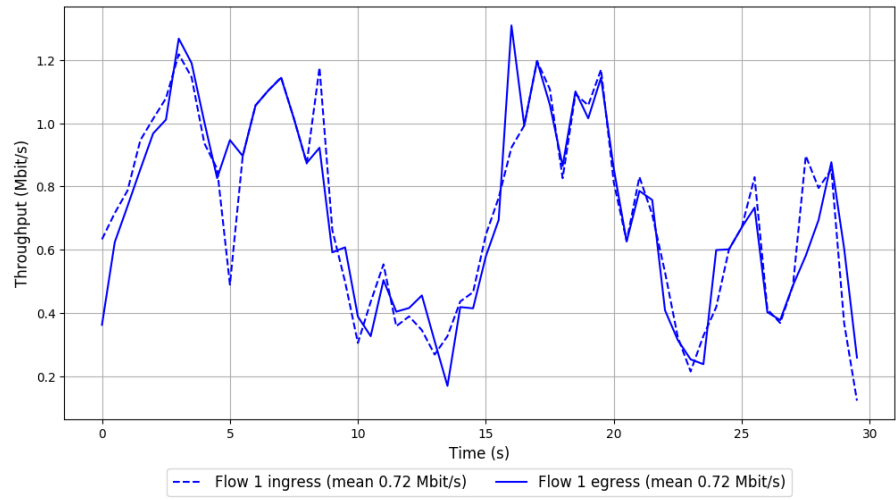


Run 3: Statistics of Sprout

Start at: 2018-03-15 01:49:35
End at: 2018-03-15 01:50:05
Local clock offset: -3.29 ms
Remote clock offset: 20.493 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 127.404 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 127.404 ms
Loss rate: 0.50%

Run 3: Report of Sprout — Data Link

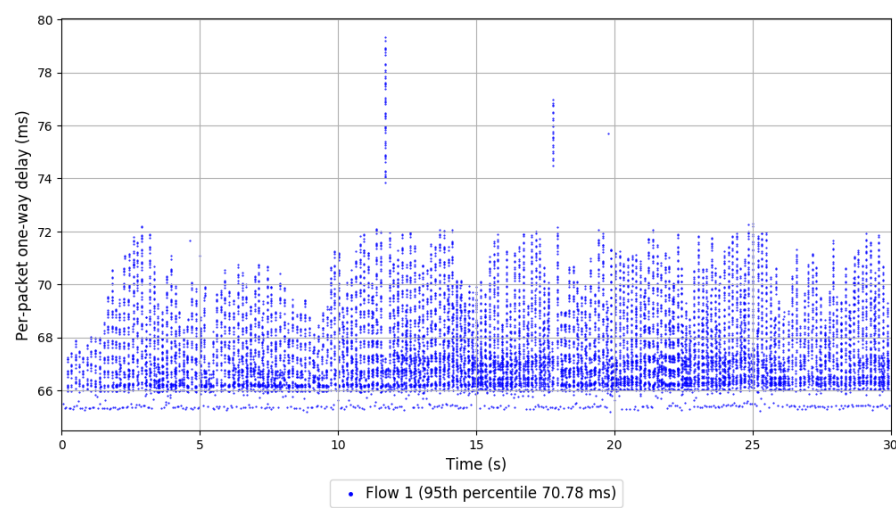
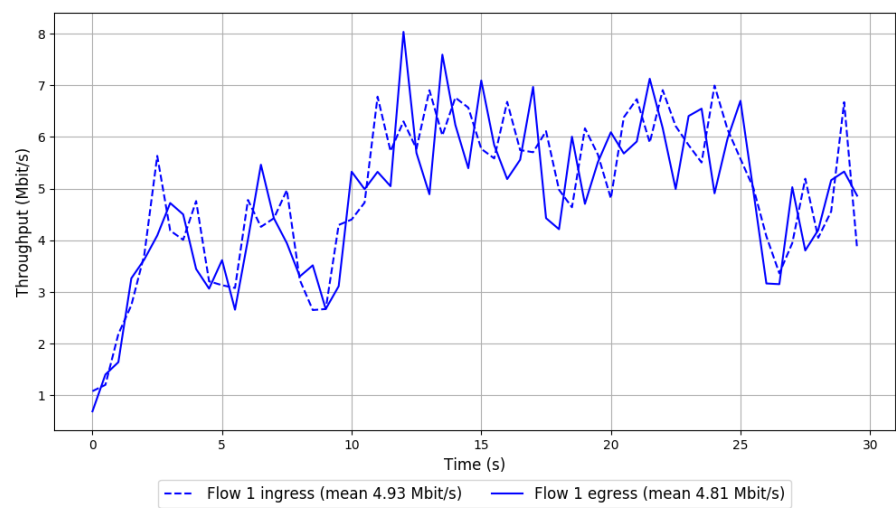


Run 4: Statistics of Sprout

Start at: 2018-03-15 02:13:09
End at: 2018-03-15 02:13:39
Local clock offset: 7.728 ms
Remote clock offset: 76.233 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 70.777 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 70.777 ms
Loss rate: 2.58%

Run 4: Report of Sprout — Data Link

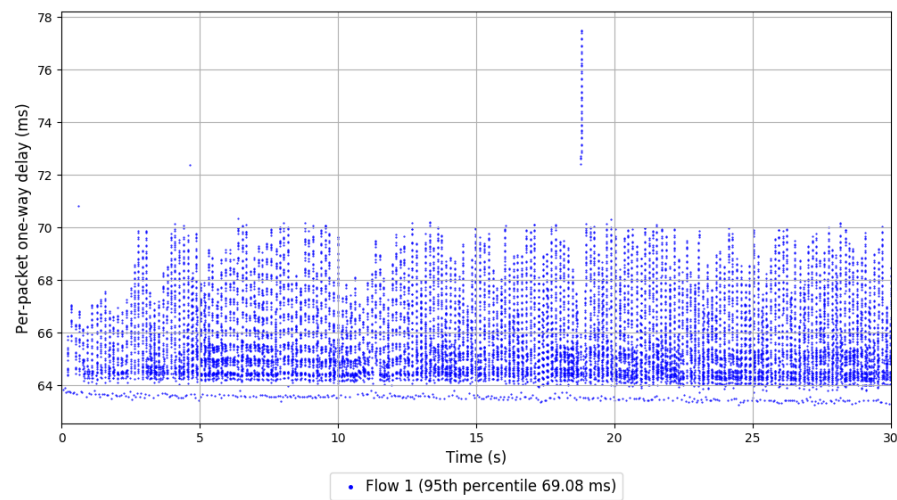
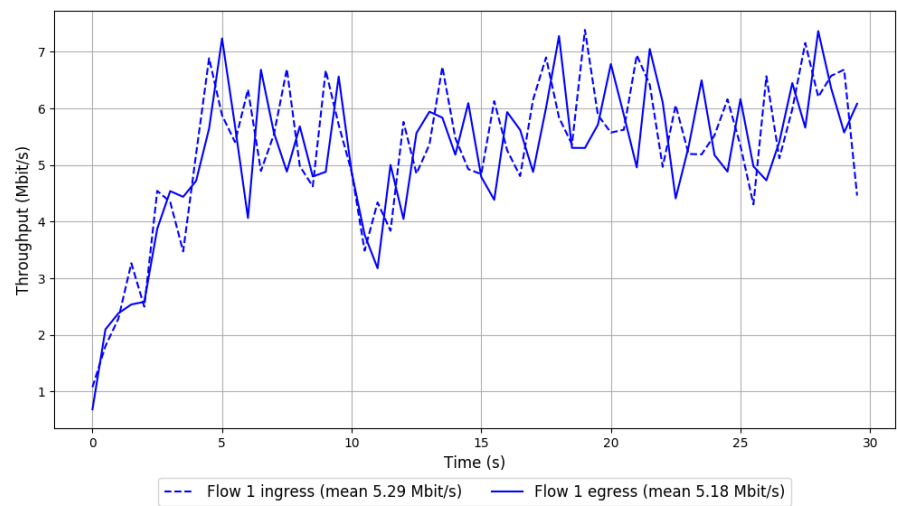


Run 5: Statistics of Sprout

Start at: 2018-03-15 02:37:34
End at: 2018-03-15 02:38:04
Local clock offset: 6.386 ms
Remote clock offset: 83.094 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 69.076 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 69.076 ms
Loss rate: 1.98%

Run 5: Report of Sprout — Data Link

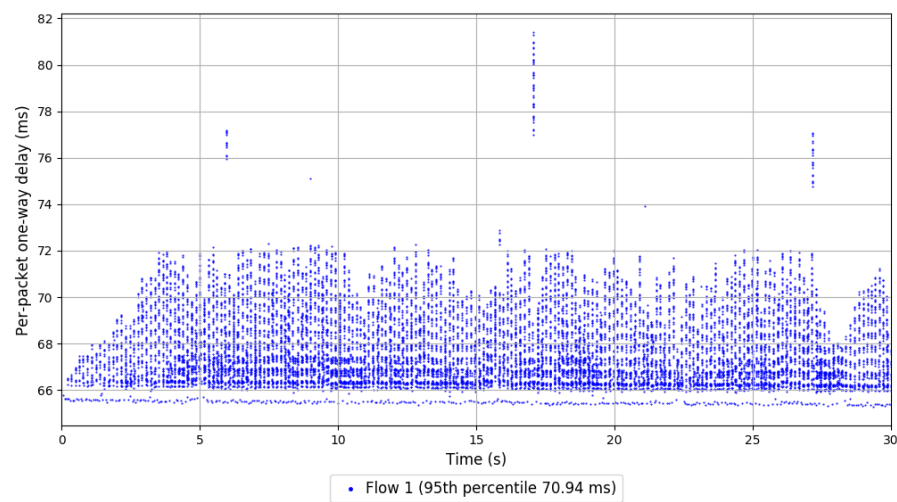
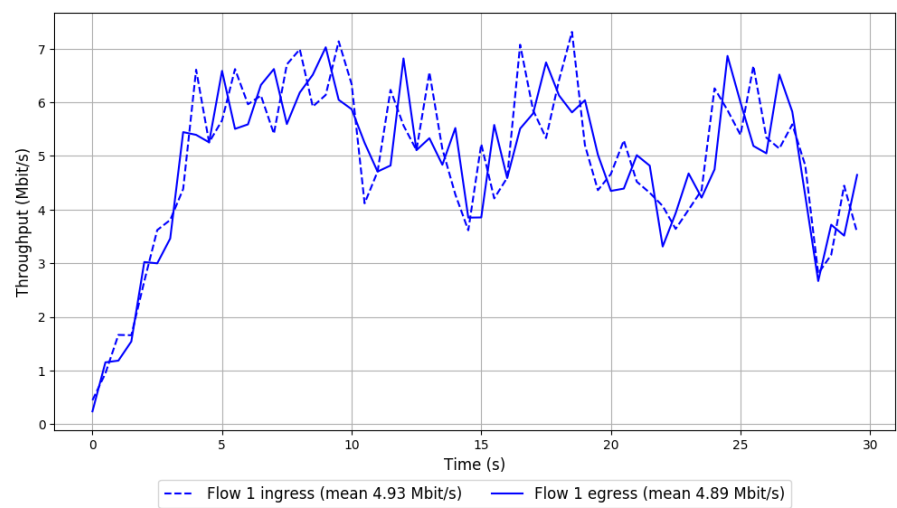


Run 6: Statistics of Sprout

Start at: 2018-03-15 03:01:10
End at: 2018-03-15 03:01:40
Local clock offset: 6.067 ms
Remote clock offset: 90.241 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 70.942 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 4.89 Mbit/s
95th percentile per-packet one-way delay: 70.942 ms
Loss rate: 0.78%

Run 6: Report of Sprout — Data Link

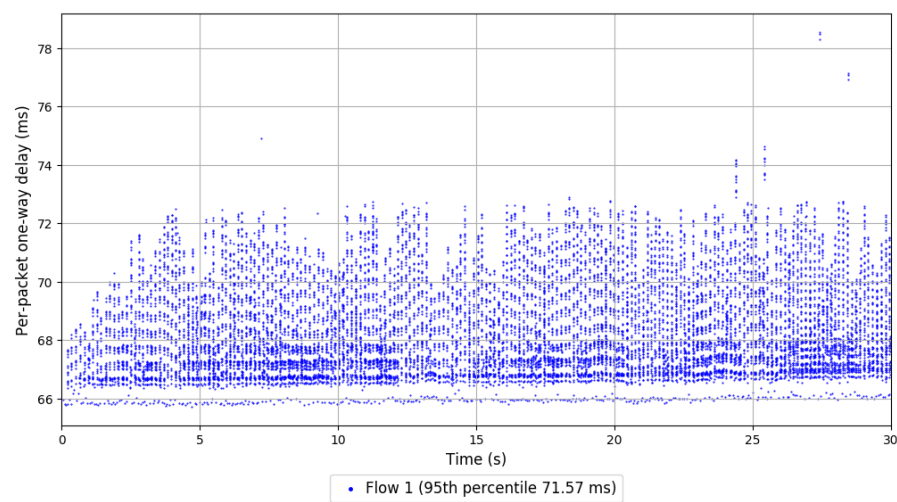
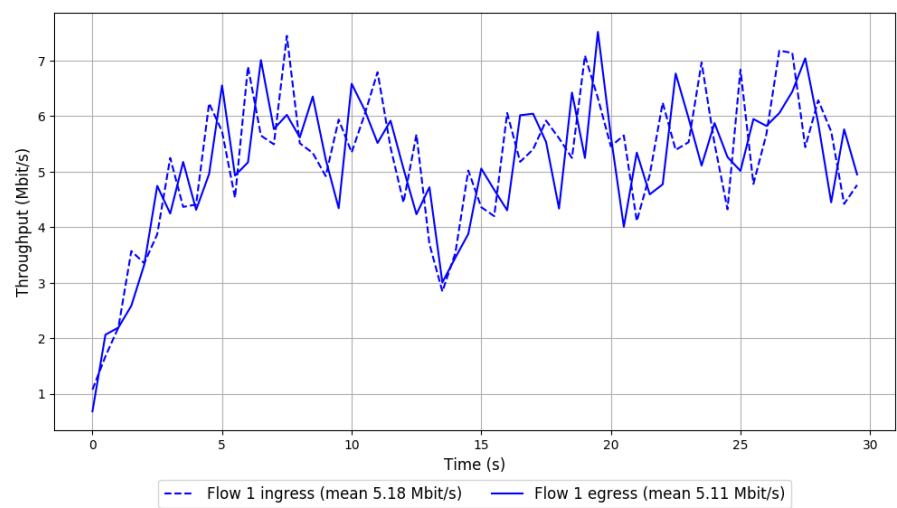


Run 7: Statistics of Sprout

Start at: 2018-03-15 03:26:20
End at: 2018-03-15 03:26:50
Local clock offset: 6.567 ms
Remote clock offset: 77.839 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.11 Mbit/s
95th percentile per-packet one-way delay: 71.570 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 5.11 Mbit/s
95th percentile per-packet one-way delay: 71.570 ms
Loss rate: 1.42%

Run 7: Report of Sprout — Data Link

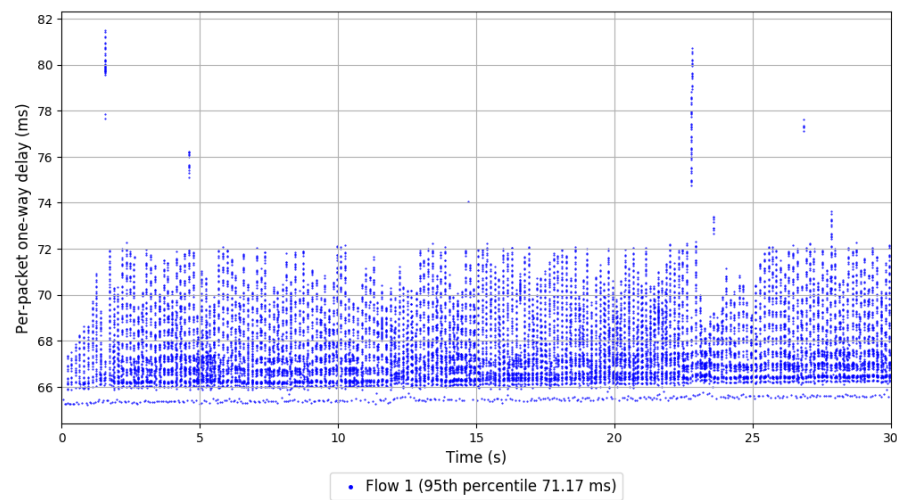
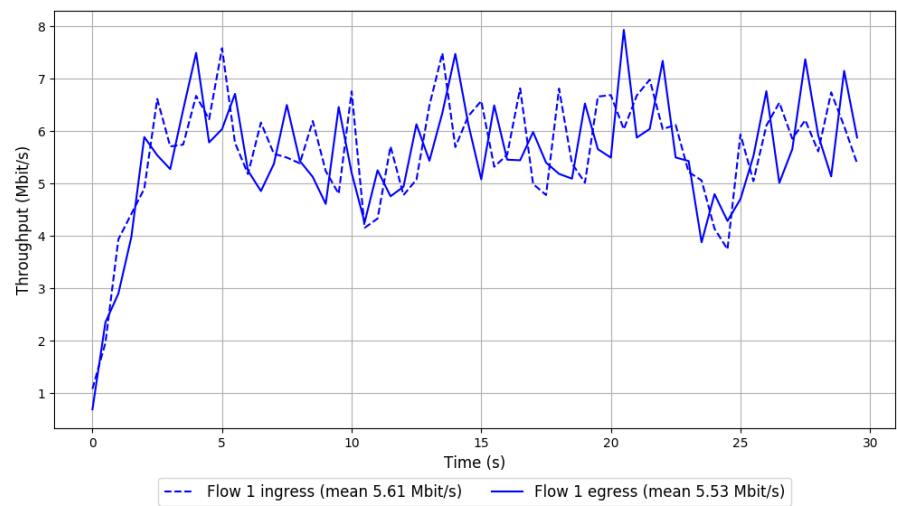


Run 8: Statistics of Sprout

Start at: 2018-03-15 03:50:48
End at: 2018-03-15 03:51:18
Local clock offset: 2.715 ms
Remote clock offset: 69.286 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 71.175 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 71.175 ms
Loss rate: 1.48%

Run 8: Report of Sprout — Data Link

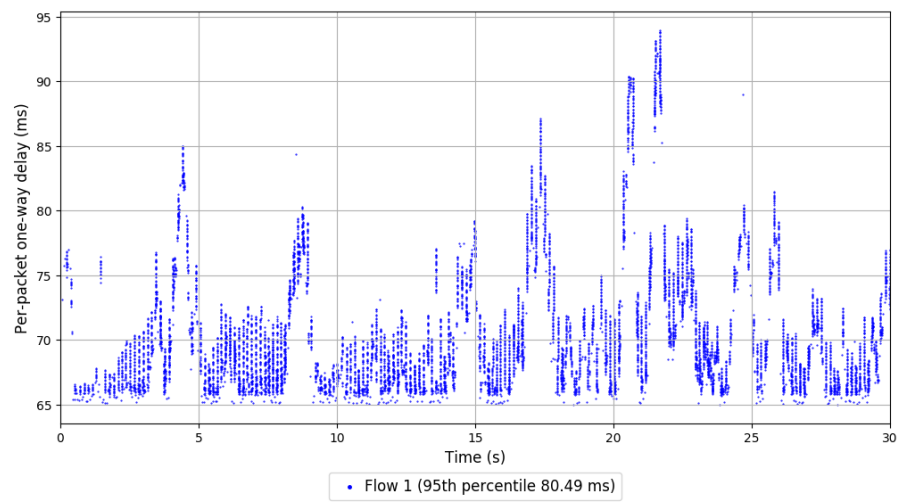
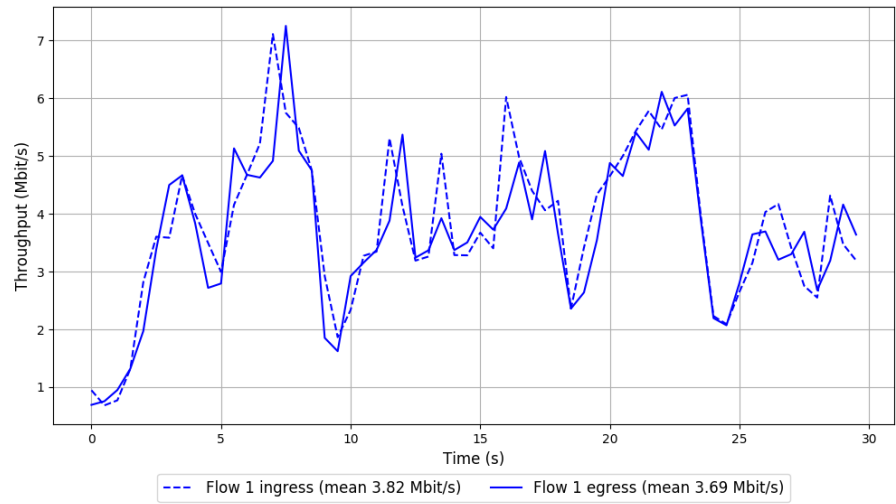


Run 9: Statistics of Sprout

Start at: 2018-03-15 04:14:53
End at: 2018-03-15 04:15:23
Local clock offset: -0.766 ms
Remote clock offset: 59.657 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 80.489 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 80.489 ms
Loss rate: 3.23%

Run 9: Report of Sprout — Data Link

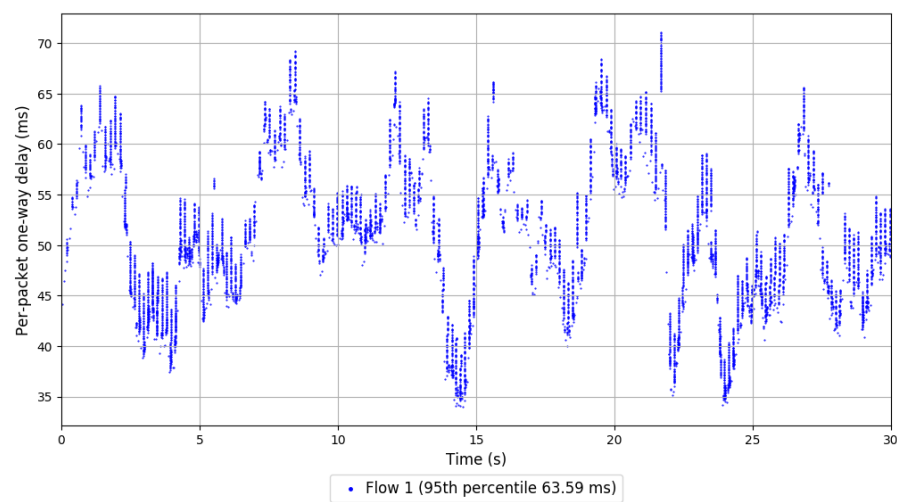
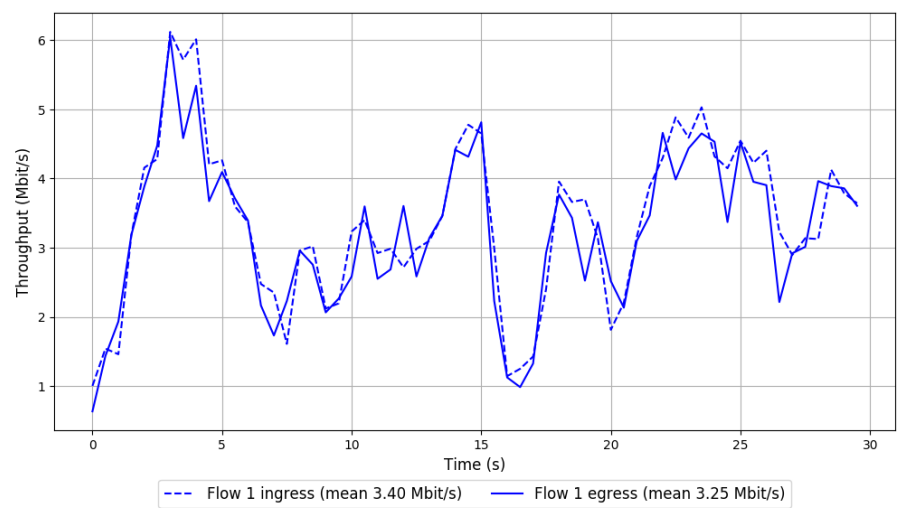


Run 10: Statistics of Sprout

Start at: 2018-03-15 04:37:56
End at: 2018-03-15 04:38:26
Local clock offset: -3.723 ms
Remote clock offset: 23.235 ms

Below is generated by plot.py at 2018-03-15 05:10:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 63.585 ms
Loss rate: 4.29%
-- Flow 1:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 63.585 ms
Loss rate: 4.29%

Run 10: Report of Sprout — Data Link

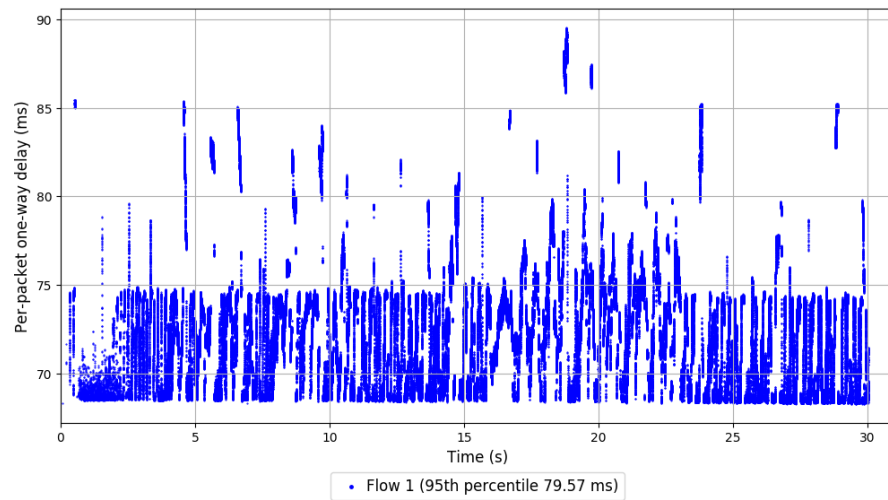
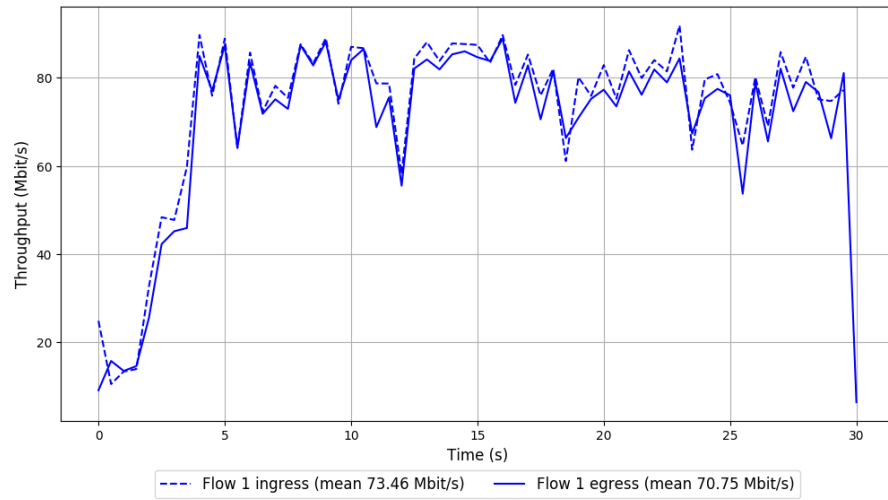


Run 1: Statistics of TaoVA-100x

Start at: 2018-03-15 00:53:32
End at: 2018-03-15 00:54:02
Local clock offset: -2.023 ms
Remote clock offset: 13.399 ms

Below is generated by plot.py at 2018-03-15 05:12:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 79.569 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 70.75 Mbit/s
95th percentile per-packet one-way delay: 79.569 ms
Loss rate: 3.68%

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

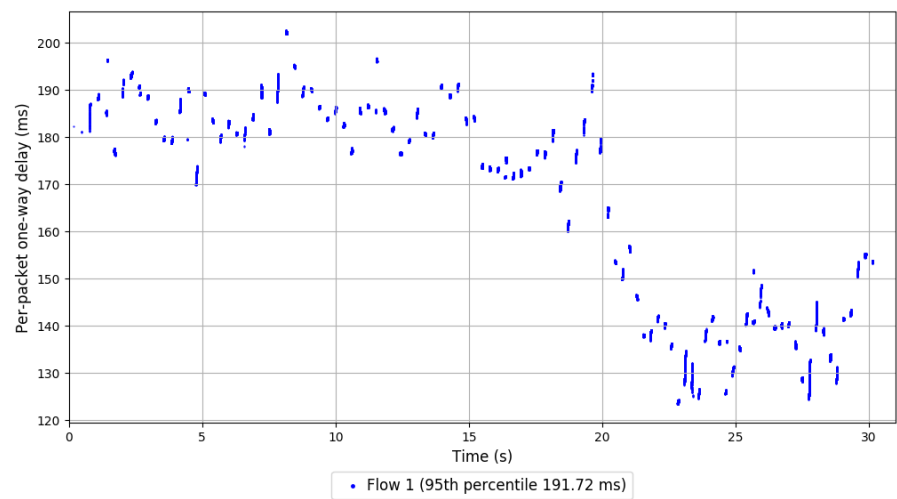
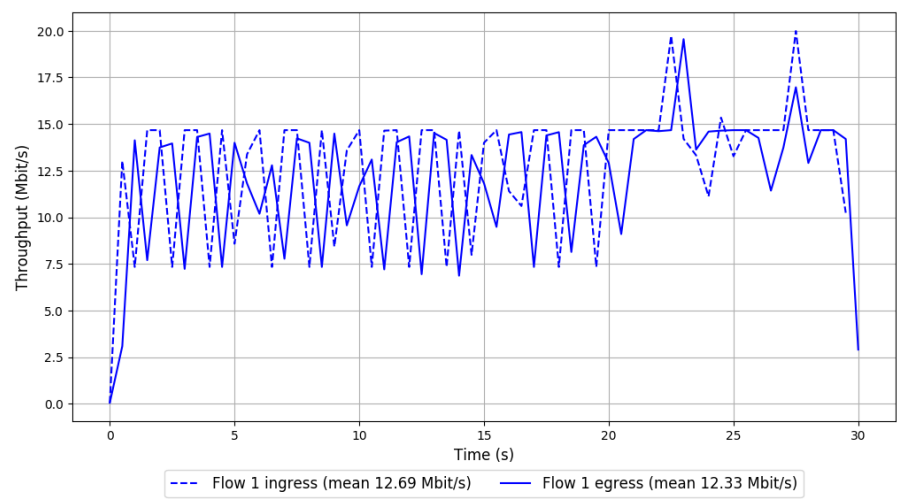


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-15 01:16:56
End at: 2018-03-15 01:17:26
Local clock offset: -2.632 ms
Remote clock offset: -35.81 ms

Below is generated by plot.py at 2018-03-15 05:12:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 191.719 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 191.719 ms
Loss rate: 2.90%

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

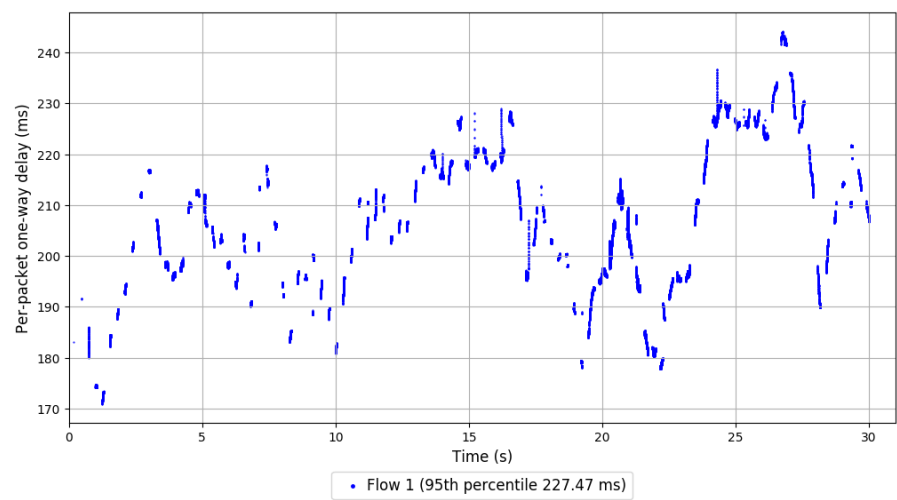
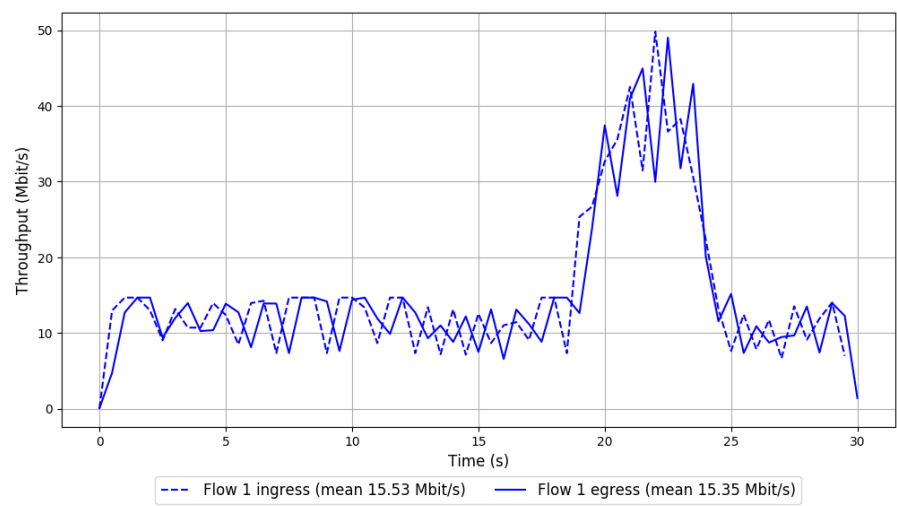


Run 3: Statistics of TaoVA-100x

Start at: 2018-03-15 01:40:40
End at: 2018-03-15 01:41:10
Local clock offset: -2.541 ms
Remote clock offset: 29.539 ms

Below is generated by plot.py at 2018-03-15 05:12:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 227.468 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 227.468 ms
Loss rate: 1.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-15 02:04:37

End at: 2018-03-15 02:05:07

Local clock offset: 2.756 ms

Remote clock offset: 75.74 ms

Below is generated by plot.py at 2018-03-15 05:12:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.52 Mbit/s

95th percentile per-packet one-way delay: 75.658 ms

Loss rate: 4.36%

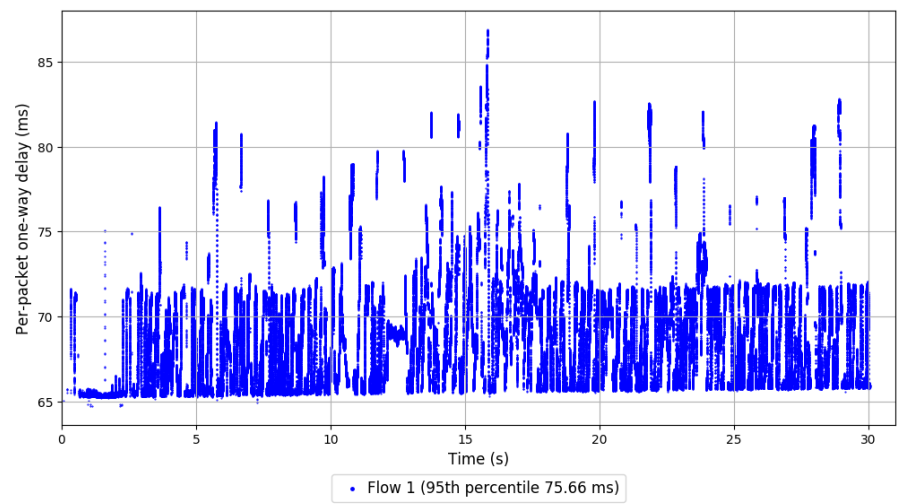
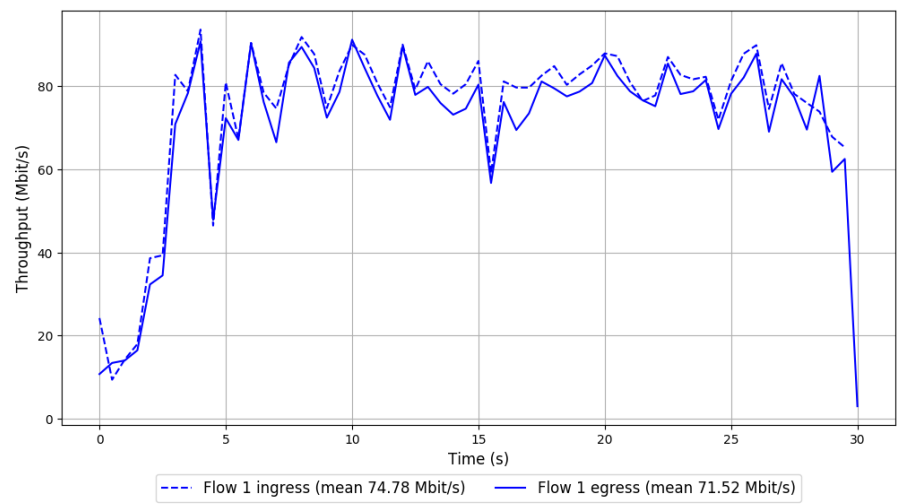
-- Flow 1:

Average throughput: 71.52 Mbit/s

95th percentile per-packet one-way delay: 75.658 ms

Loss rate: 4.36%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-15 02:28:57

End at: 2018-03-15 02:29:27

Local clock offset: 7.849 ms

Remote clock offset: 73.463 ms

Below is generated by plot.py at 2018-03-15 05:12:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.50 Mbit/s

95th percentile per-packet one-way delay: 68.156 ms

Loss rate: 4.74%

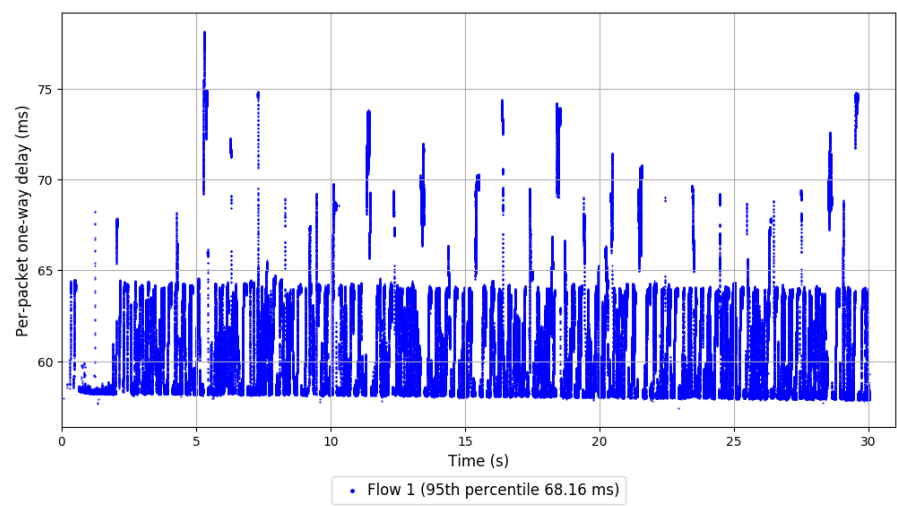
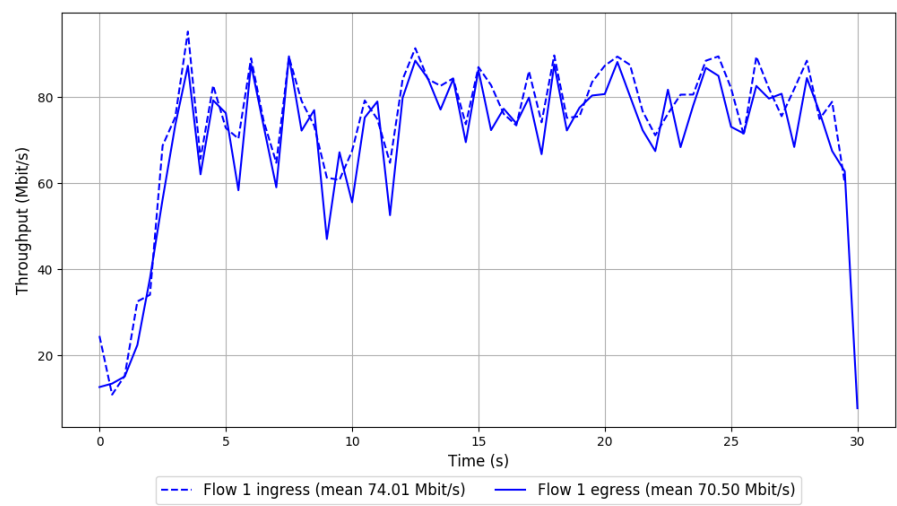
-- Flow 1:

Average throughput: 70.50 Mbit/s

95th percentile per-packet one-way delay: 68.156 ms

Loss rate: 4.74%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-15 02:52:33

End at: 2018-03-15 02:53:03

Local clock offset: 5.874 ms

Remote clock offset: 87.125 ms

Below is generated by plot.py at 2018-03-15 05:12:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.55 Mbit/s

95th percentile per-packet one-way delay: 77.650 ms

Loss rate: 4.29%

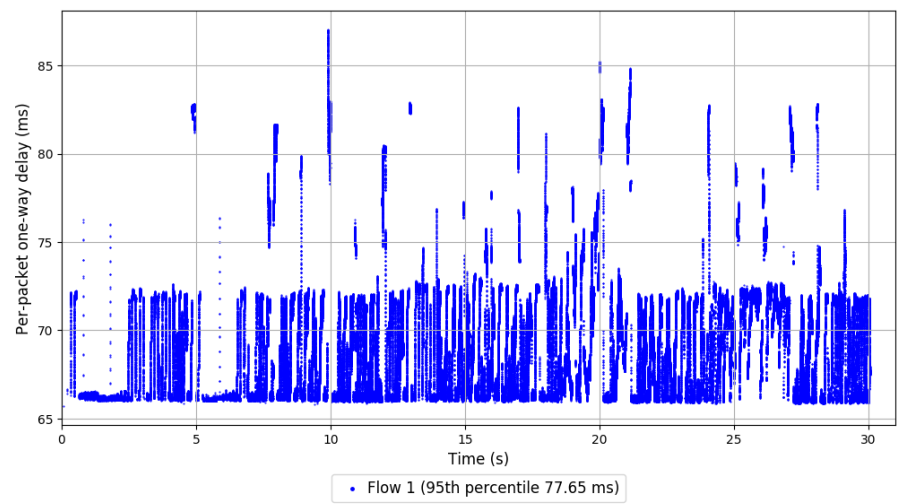
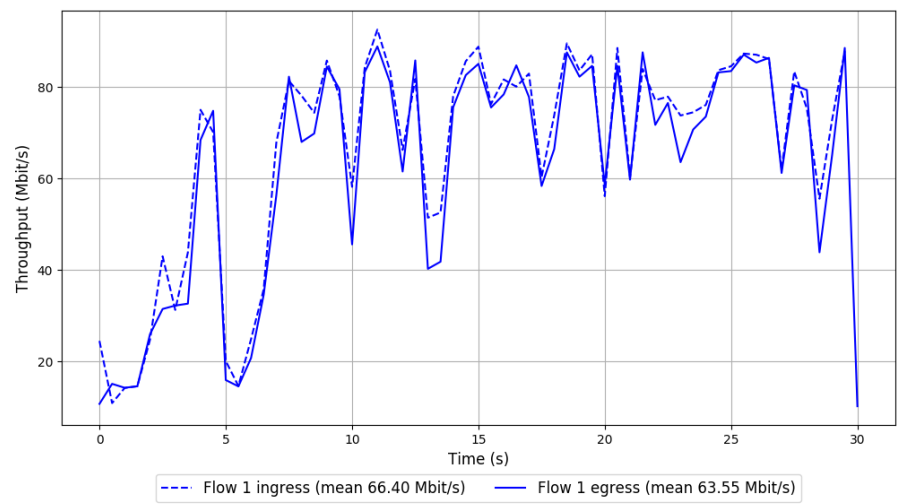
-- Flow 1:

Average throughput: 63.55 Mbit/s

95th percentile per-packet one-way delay: 77.650 ms

Loss rate: 4.29%

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

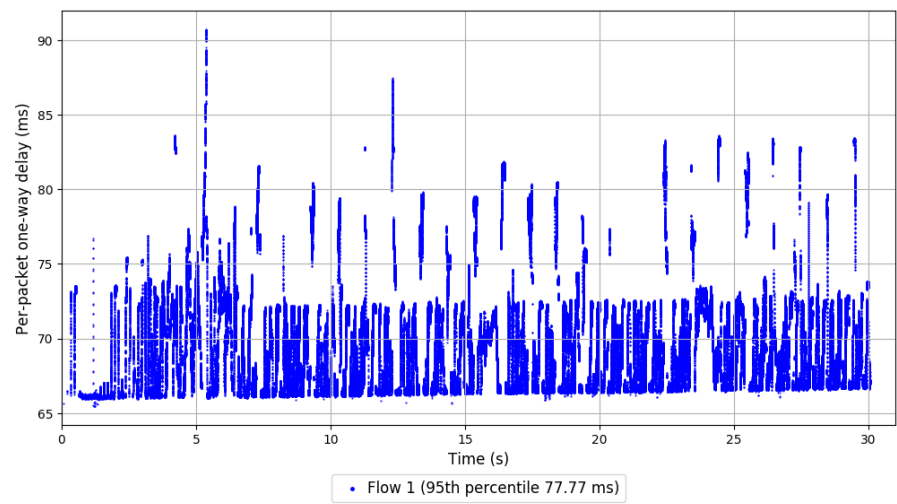
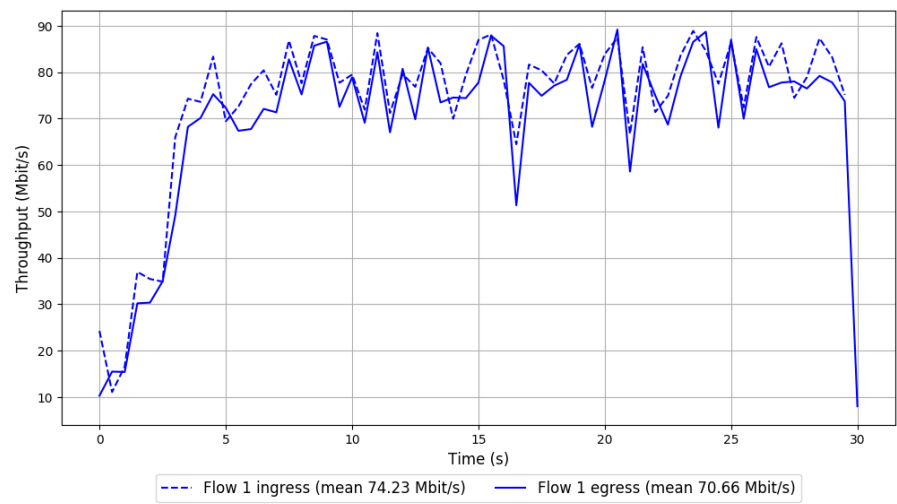


Run 7: Statistics of TaoVA-100x

Start at: 2018-03-15 03:16:48
End at: 2018-03-15 03:17:18
Local clock offset: 6.571 ms
Remote clock offset: 86.708 ms

Below is generated by plot.py at 2018-03-15 05:12:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.66 Mbit/s
95th percentile per-packet one-way delay: 77.770 ms
Loss rate: 4.81%
-- Flow 1:
Average throughput: 70.66 Mbit/s
95th percentile per-packet one-way delay: 77.770 ms
Loss rate: 4.81%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-15 03:41:03

End at: 2018-03-15 03:41:33

Local clock offset: 4.138 ms

Remote clock offset: 74.096 ms

Below is generated by plot.py at 2018-03-15 05:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 74.953 ms

Loss rate: 4.65%

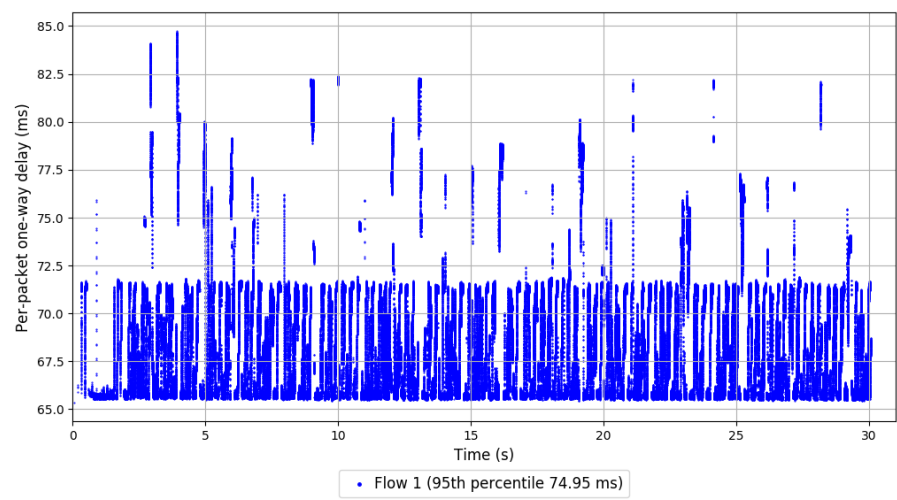
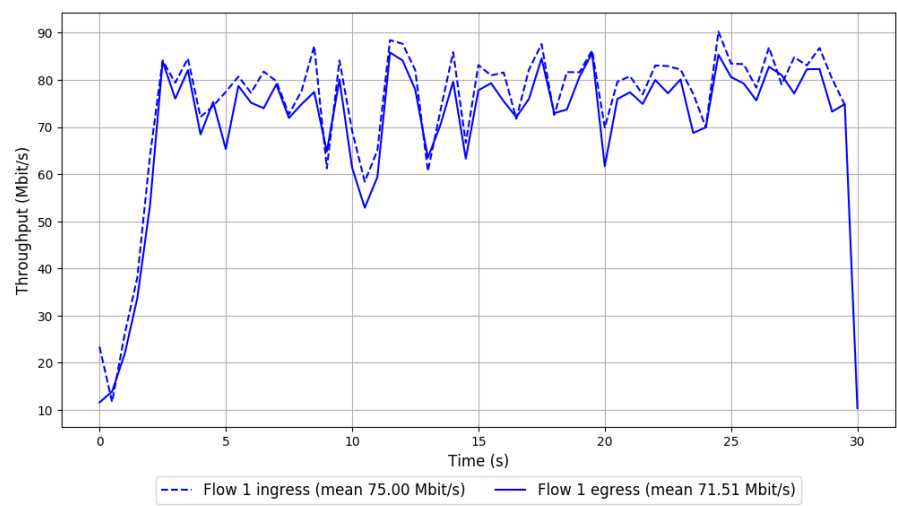
-- Flow 1:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 74.953 ms

Loss rate: 4.65%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-15 04:06:21

End at: 2018-03-15 04:06:51

Local clock offset: 1.788 ms

Remote clock offset: 61.654 ms

Below is generated by plot.py at 2018-03-15 05:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.97 Mbit/s

95th percentile per-packet one-way delay: 108.194 ms

Loss rate: 2.52%

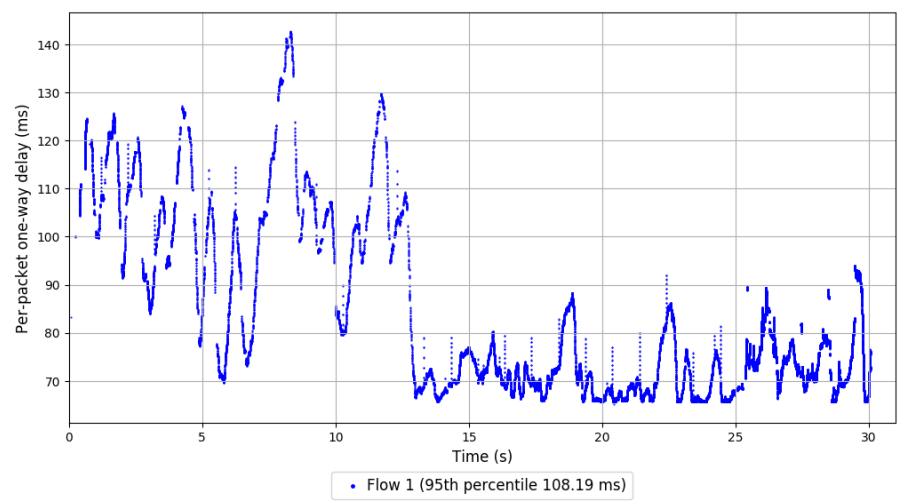
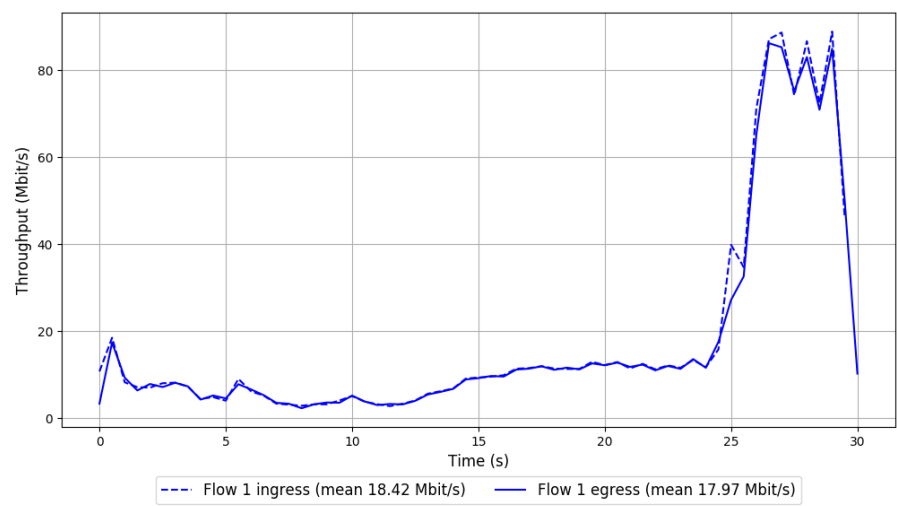
-- Flow 1:

Average throughput: 17.97 Mbit/s

95th percentile per-packet one-way delay: 108.194 ms

Loss rate: 2.52%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-03-15 04:29:24

End at: 2018-03-15 04:29:54

Local clock offset: -2.774 ms

Remote clock offset: 46.943 ms

Below is generated by plot.py at 2018-03-15 05:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 84.257 ms

Loss rate: 2.05%

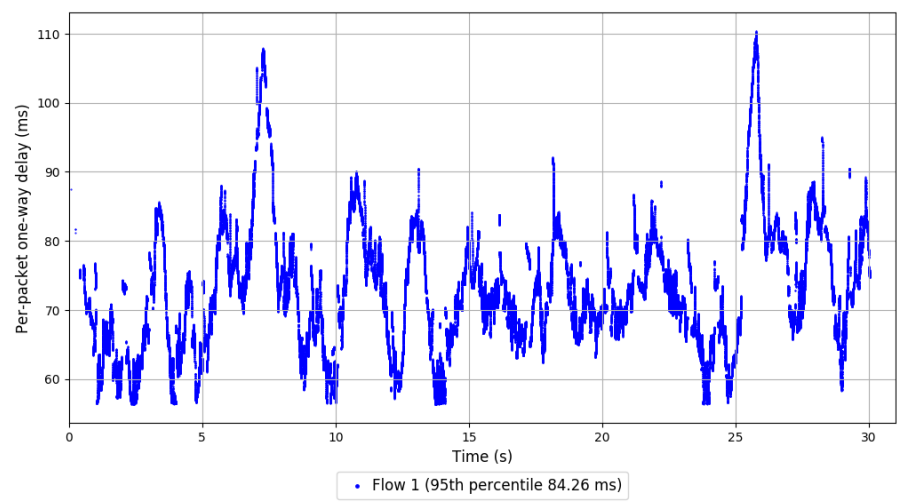
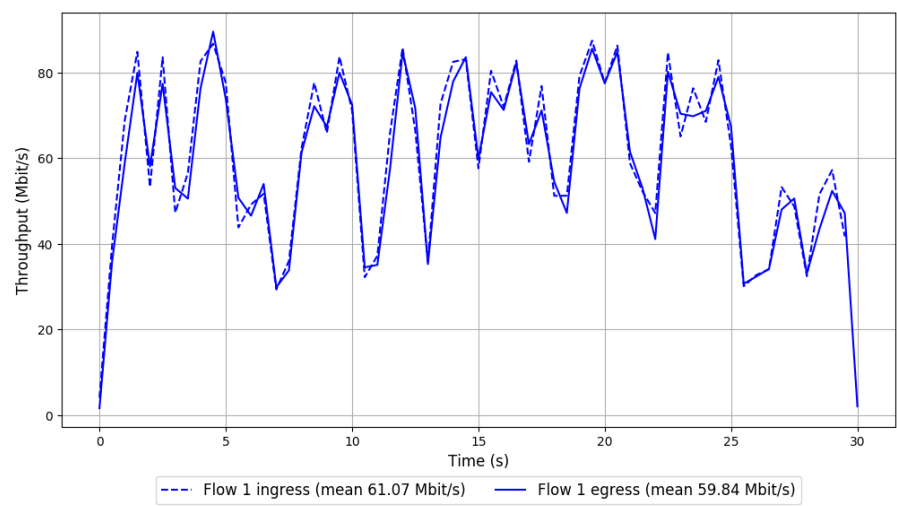
-- Flow 1:

Average throughput: 59.84 Mbit/s

95th percentile per-packet one-way delay: 84.257 ms

Loss rate: 2.05%

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

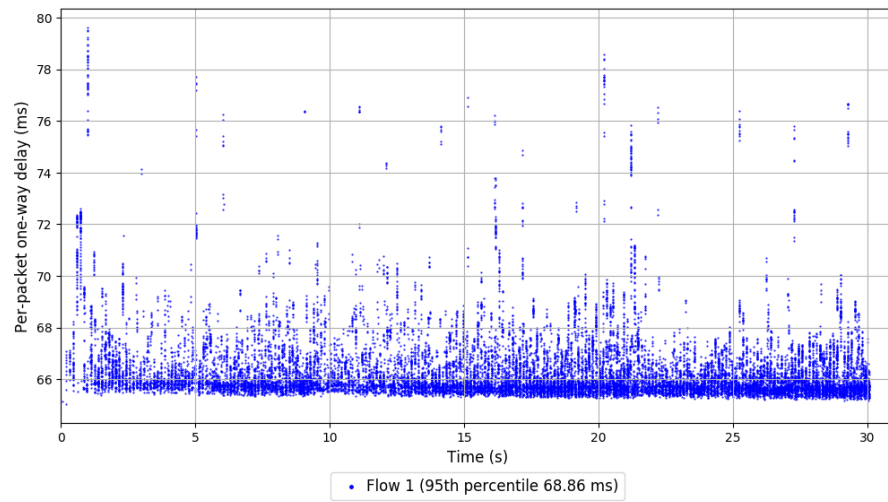
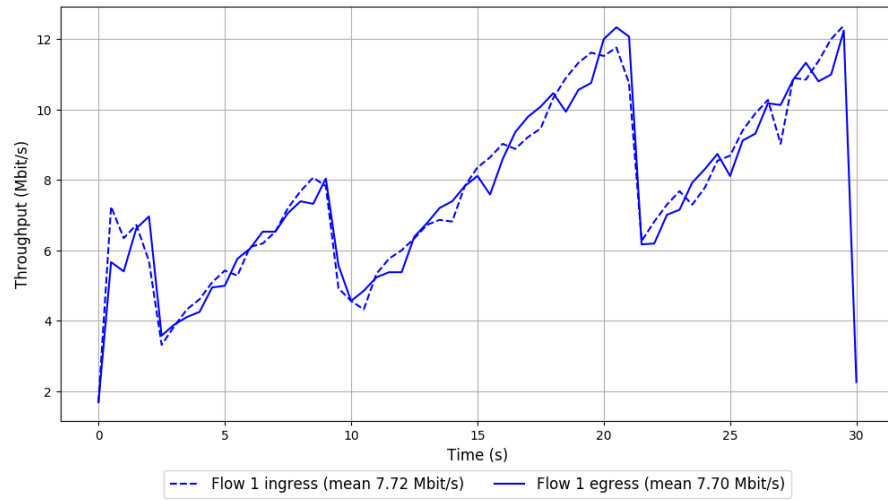


Run 1: Statistics of TCP Vegas

Start at: 2018-03-15 00:54:48
End at: 2018-03-15 00:55:18
Local clock offset: 0.564 ms
Remote clock offset: 13.653 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 68.856 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 68.856 ms
Loss rate: 0.23%

Run 1: Report of TCP Vegas — Data Link

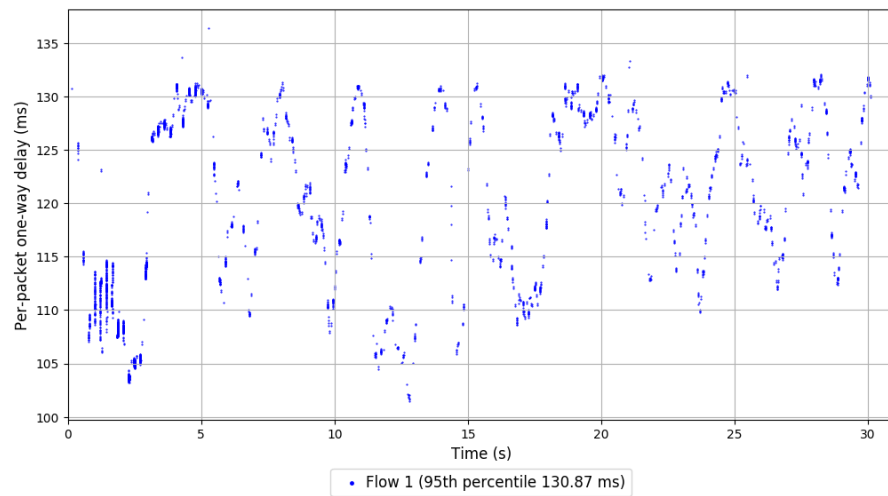
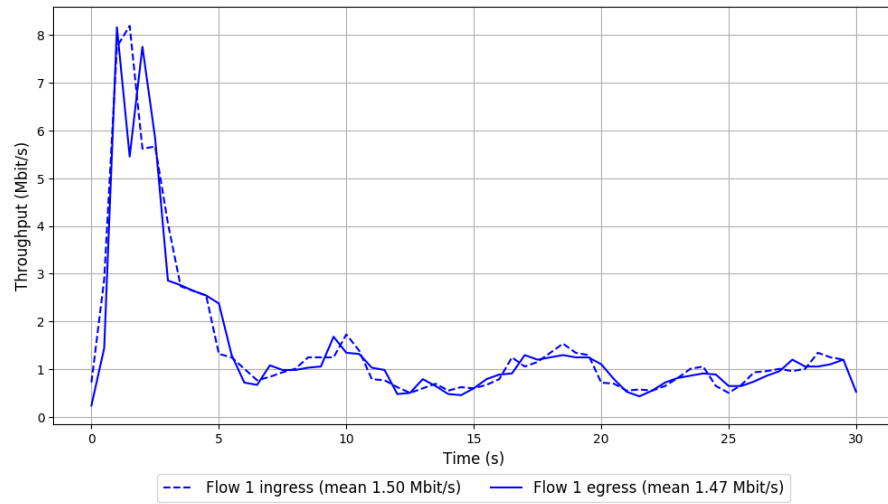


Run 2: Statistics of TCP Vegas

Start at: 2018-03-15 01:18:12
End at: 2018-03-15 01:18:42
Local clock offset: -5.469 ms
Remote clock offset: -26.954 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 130.868 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 130.868 ms
Loss rate: 2.40%

Run 2: Report of TCP Vegas — Data Link

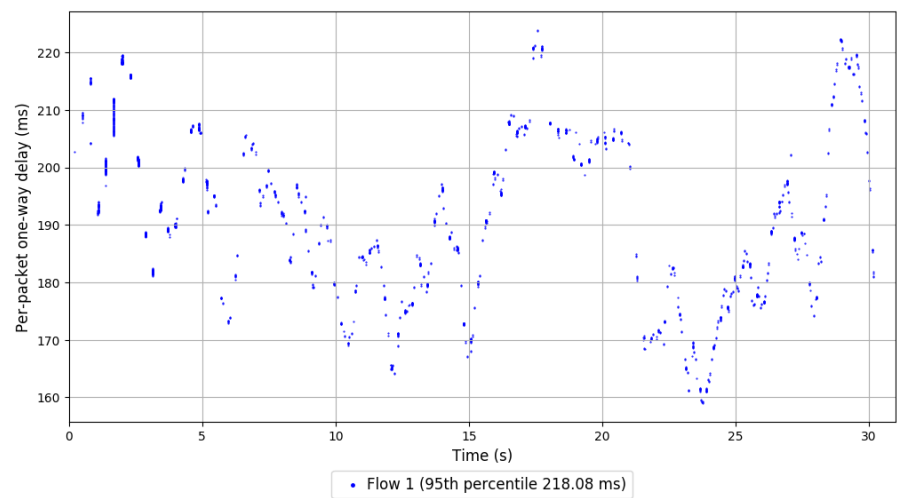
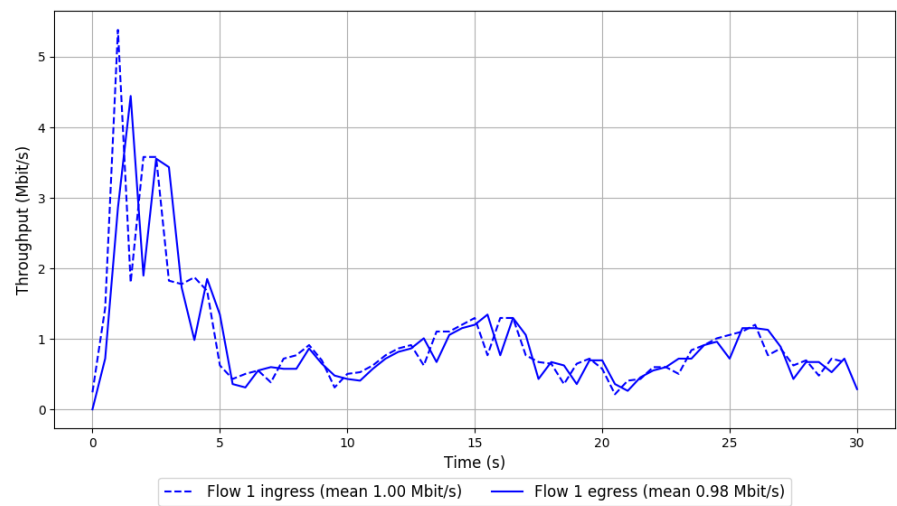


Run 3: Statistics of TCP Vegas

Start at: 2018-03-15 01:41:58
End at: 2018-03-15 01:42:28
Local clock offset: -2.707 ms
Remote clock offset: 26.517 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 218.082 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 218.082 ms
Loss rate: 2.56%

Run 3: Report of TCP Vegas — Data Link

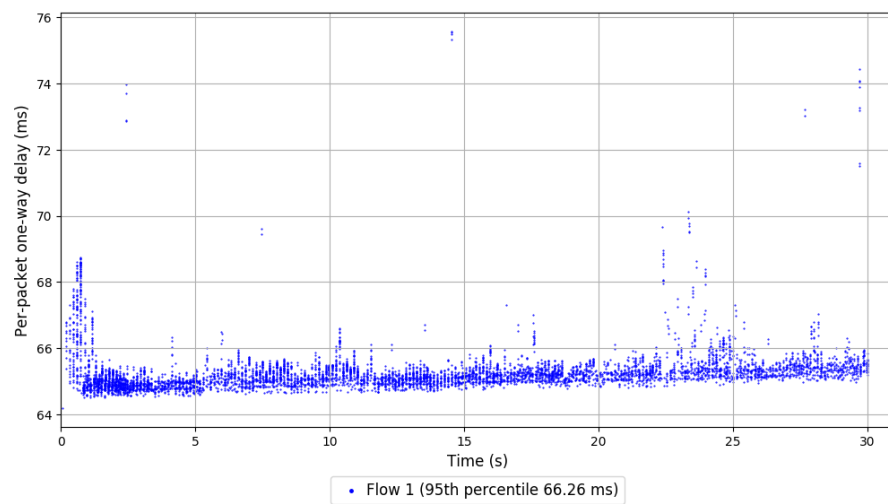
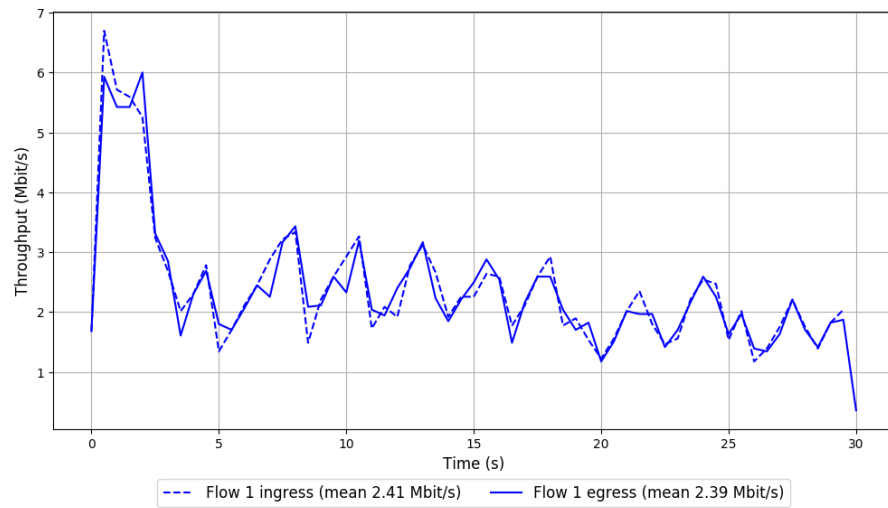


Run 4: Statistics of TCP Vegas

Start at: 2018-03-15 02:05:53
End at: 2018-03-15 02:06:23
Local clock offset: 5.836 ms
Remote clock offset: 76.759 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 66.263 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.39 Mbit/s
95th percentile per-packet one-way delay: 66.263 ms
Loss rate: 0.65%

Run 4: Report of TCP Vegas — Data Link

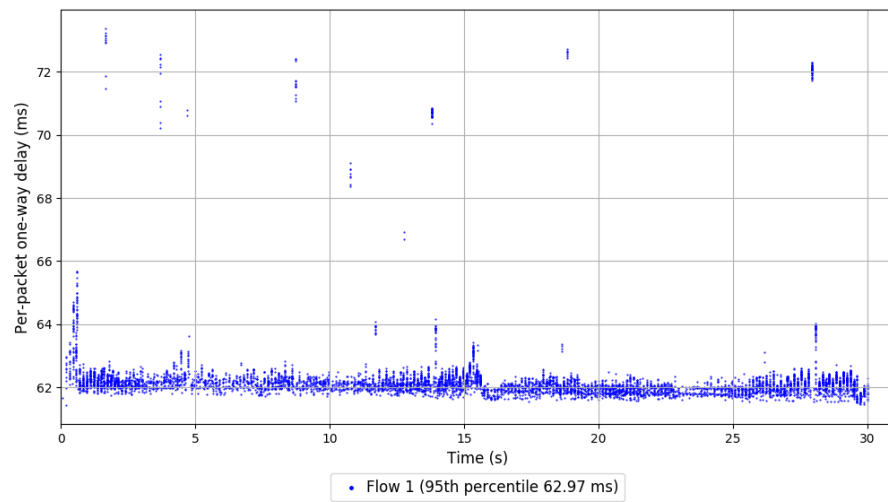
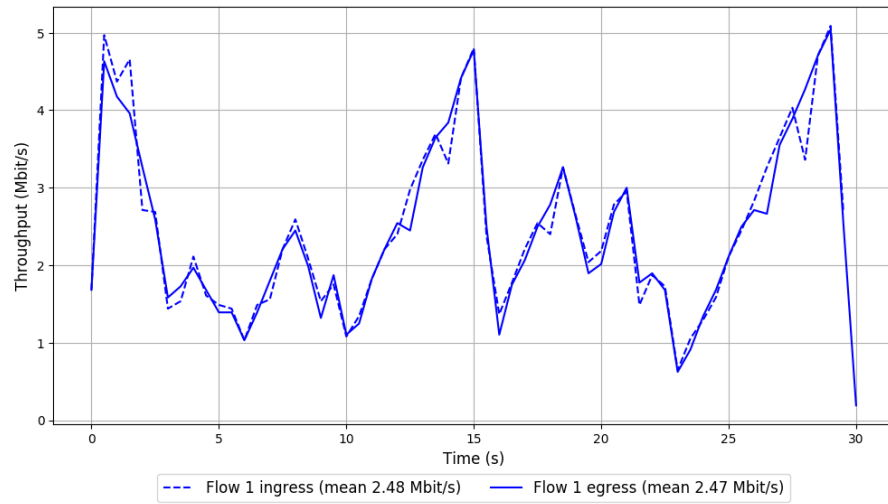


Run 5: Statistics of TCP Vegas

Start at: 2018-03-15 02:30:13
End at: 2018-03-15 02:30:43
Local clock offset: 7.014 ms
Remote clock offset: 77.028 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 62.973 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 2.47 Mbit/s
95th percentile per-packet one-way delay: 62.973 ms
Loss rate: 0.71%

Run 5: Report of TCP Vegas — Data Link

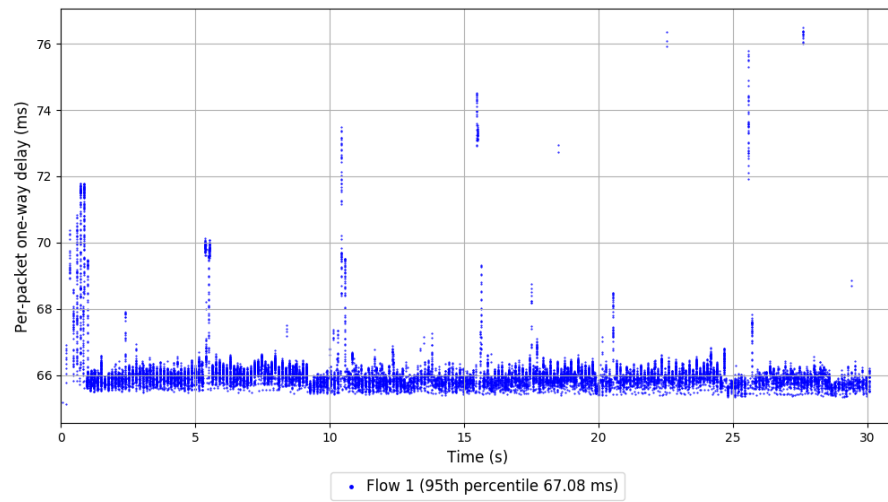
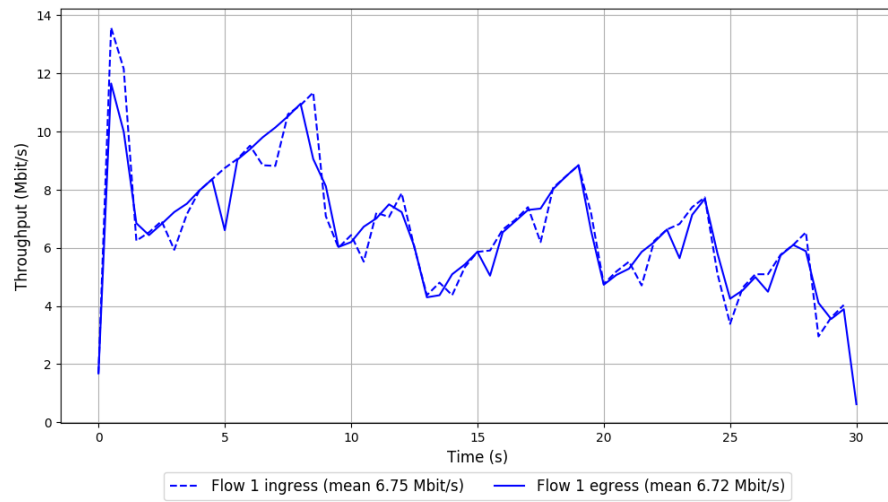


Run 6: Statistics of TCP Vegas

Start at: 2018-03-15 02:53:49
End at: 2018-03-15 02:54:19
Local clock offset: 6.057 ms
Remote clock offset: 87.414 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 67.075 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 67.075 ms
Loss rate: 0.51%

Run 6: Report of TCP Vegas — Data Link

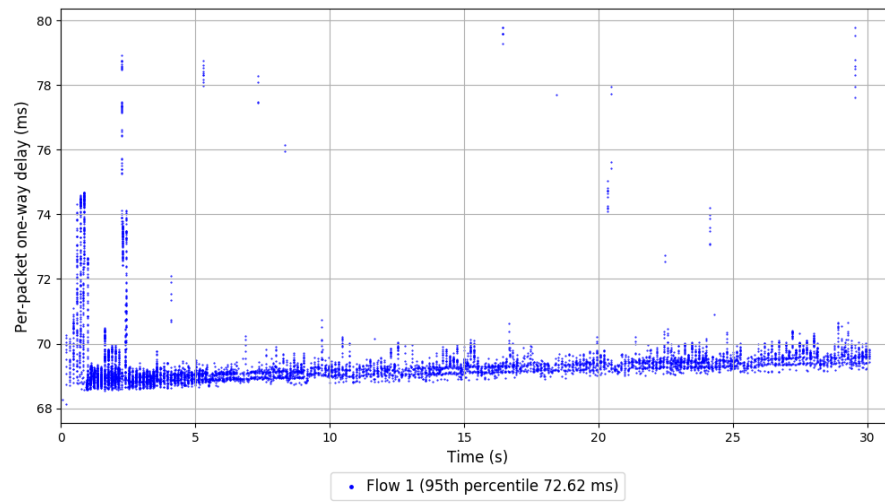
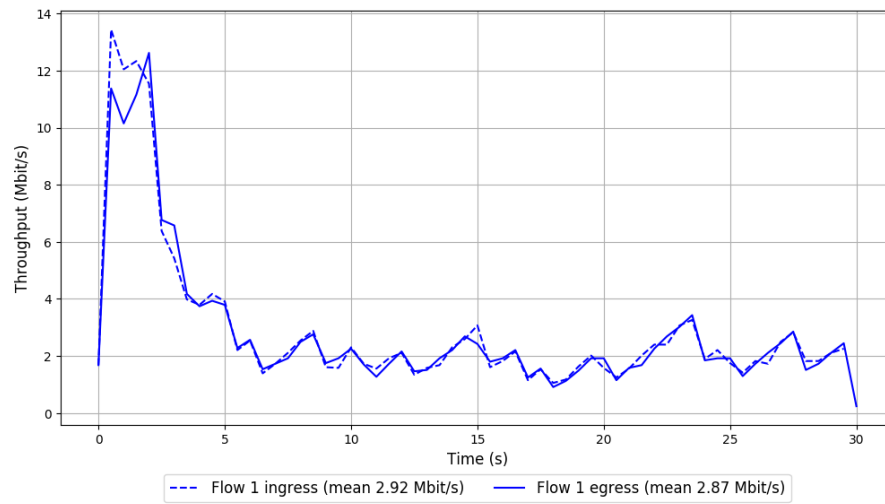


Run 7: Statistics of TCP Vegas

Start at: 2018-03-15 03:18:04
End at: 2018-03-15 03:18:34
Local clock offset: 3.745 ms
Remote clock offset: 84.758 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 72.622 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 72.622 ms
Loss rate: 1.72%

Run 7: Report of TCP Vegas — Data Link

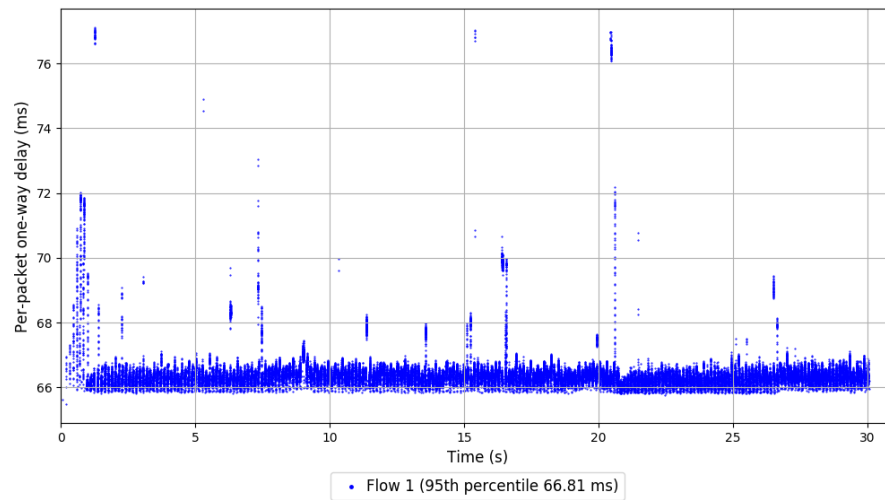
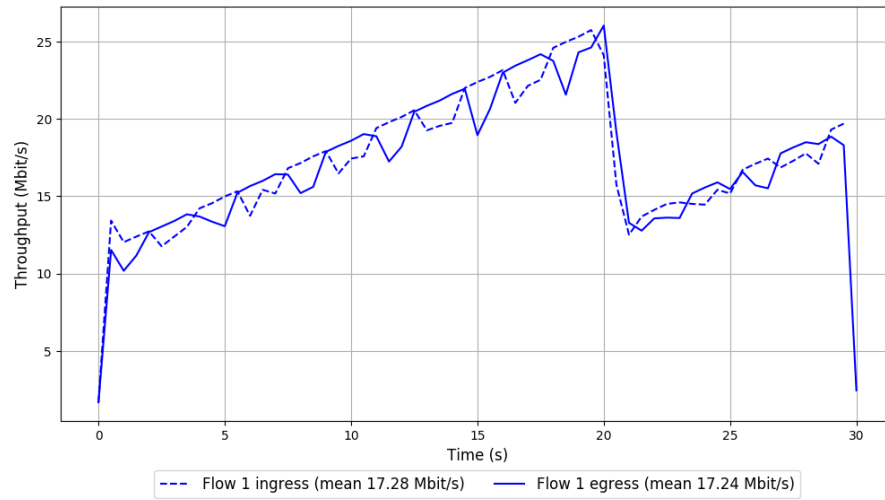


Run 8: Statistics of TCP Vegas

Start at: 2018-03-15 03:42:19
End at: 2018-03-15 03:42:50
Local clock offset: 3.795 ms
Remote clock offset: 73.898 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 17.24 Mbit/s
95th percentile per-packet one-way delay: 66.806 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 17.24 Mbit/s
95th percentile per-packet one-way delay: 66.806 ms
Loss rate: 0.21%

Run 8: Report of TCP Vegas — Data Link

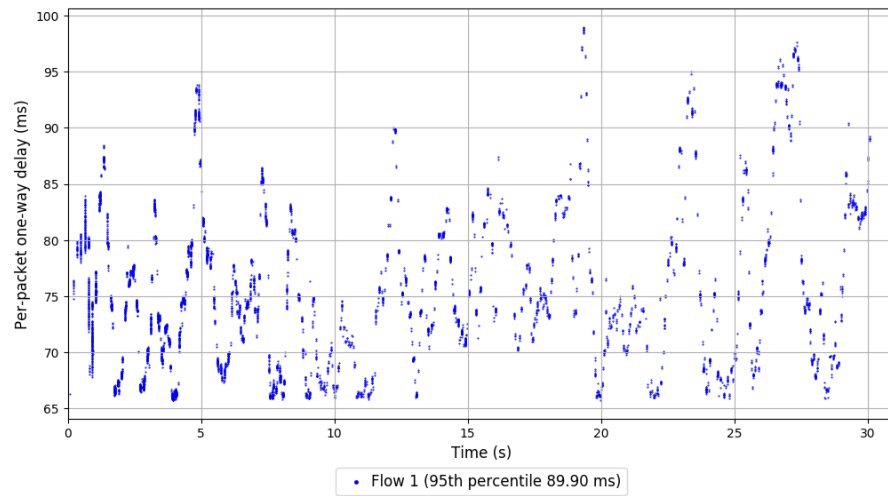
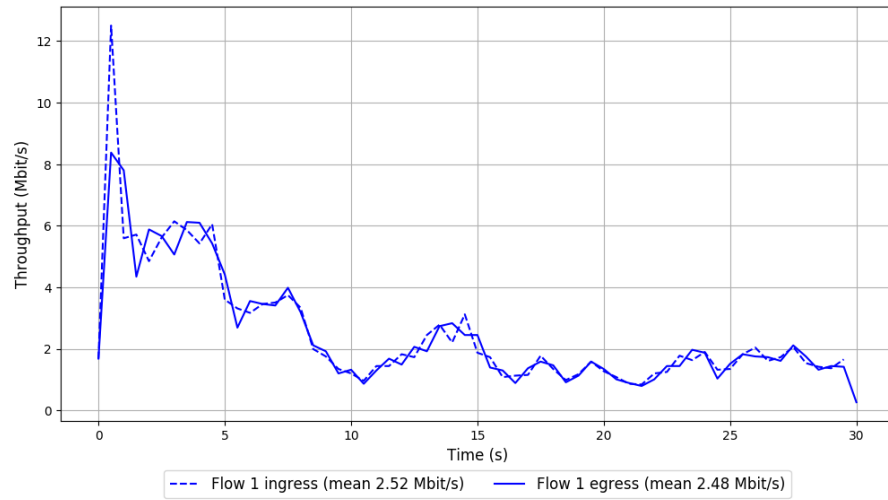


Run 9: Statistics of TCP Vegas

Start at: 2018-03-15 04:07:33
End at: 2018-03-15 04:08:03
Local clock offset: 1.618 ms
Remote clock offset: 61.621 ms

Below is generated by plot.py at 2018-03-15 05:12:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 89.896 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 2.48 Mbit/s
95th percentile per-packet one-way delay: 89.896 ms
Loss rate: 1.79%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-15 04:30:40

End at: 2018-03-15 04:31:10

Local clock offset: -3.103 ms

Remote clock offset: 49.54 ms

Below is generated by plot.py at 2018-03-15 05:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 68.139 ms

Loss rate: 0.72%

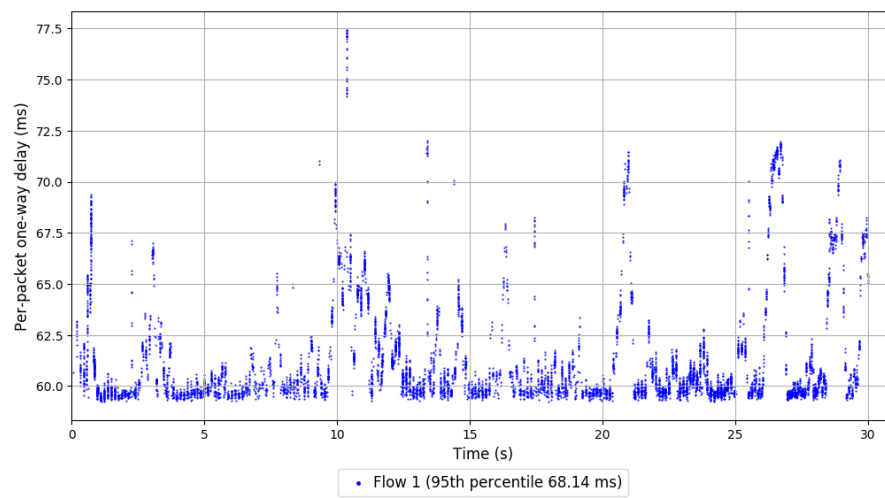
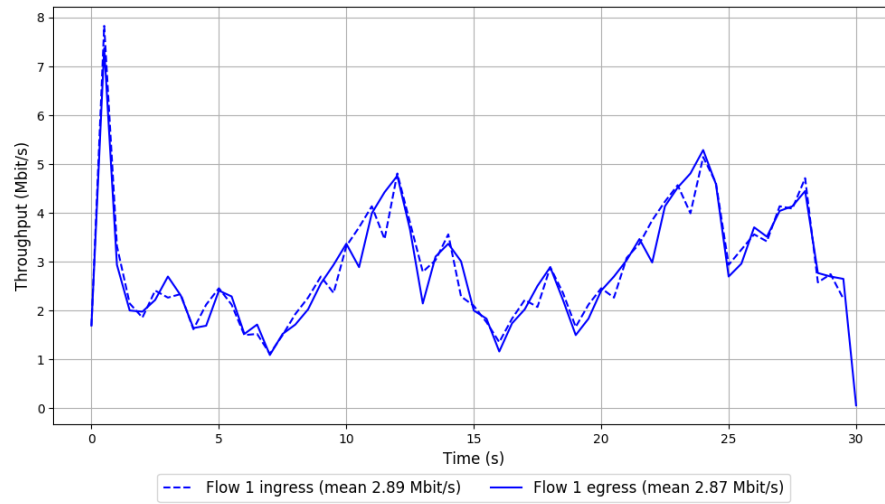
-- Flow 1:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 68.139 ms

Loss rate: 0.72%

Run 10: Report of TCP Vegas — Data Link

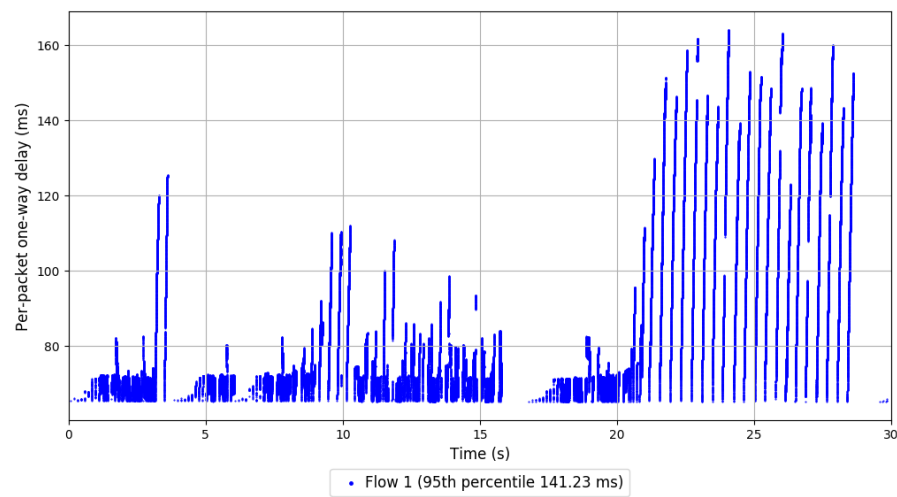
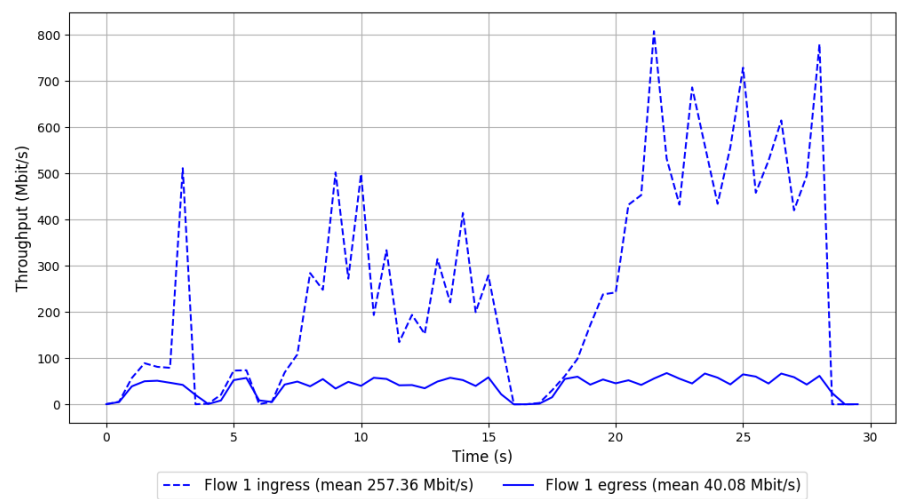


Run 1: Statistics of Verus

Start at: 2018-03-15 00:49:40
End at: 2018-03-15 00:50:10
Local clock offset: 2.029 ms
Remote clock offset: 12.787 ms

Below is generated by plot.py at 2018-03-15 05:13:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 141.231 ms
Loss rate: 84.42%
-- Flow 1:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 141.231 ms
Loss rate: 84.42%

Run 1: Report of Verus — Data Link

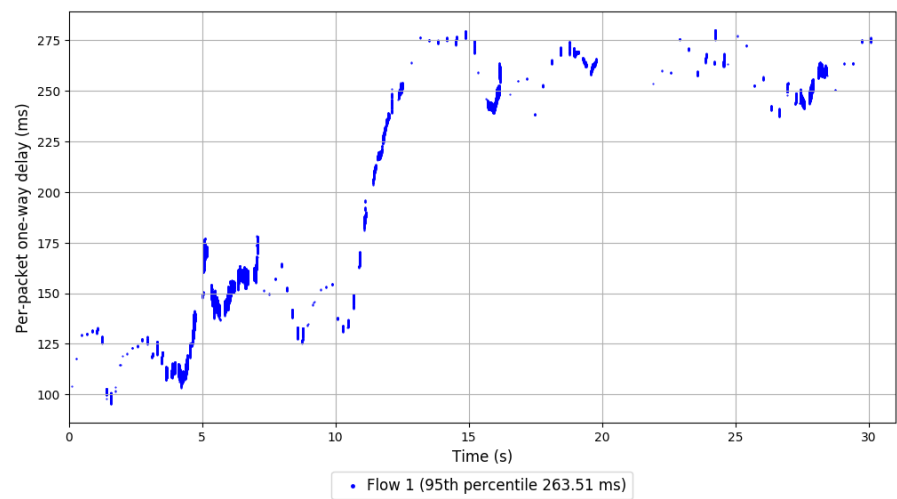
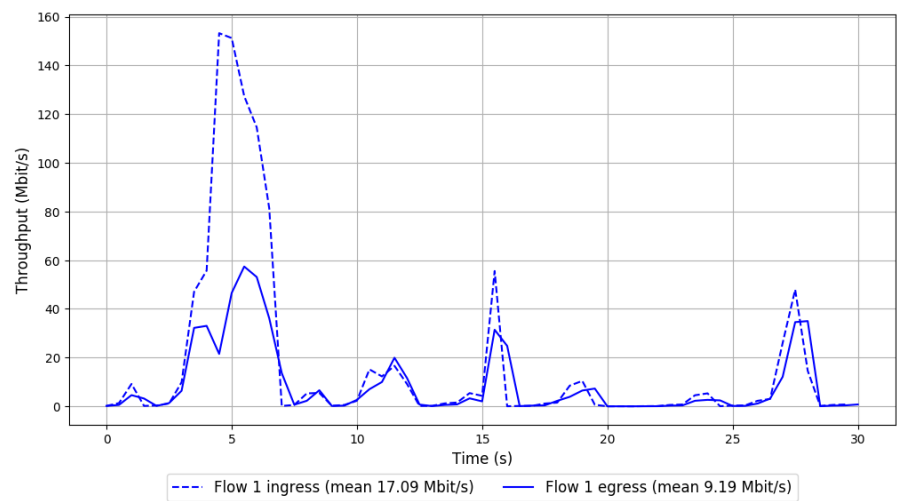


Run 2: Statistics of Verus

Start at: 2018-03-15 01:12:53
End at: 2018-03-15 01:13:23
Local clock offset: -2.371 ms
Remote clock offset: 16.147 ms

Below is generated by plot.py at 2018-03-15 05:13:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.19 Mbit/s
95th percentile per-packet one-way delay: 263.511 ms
Loss rate: 45.88%
-- Flow 1:
Average throughput: 9.19 Mbit/s
95th percentile per-packet one-way delay: 263.511 ms
Loss rate: 45.88%

Run 2: Report of Verus — Data Link

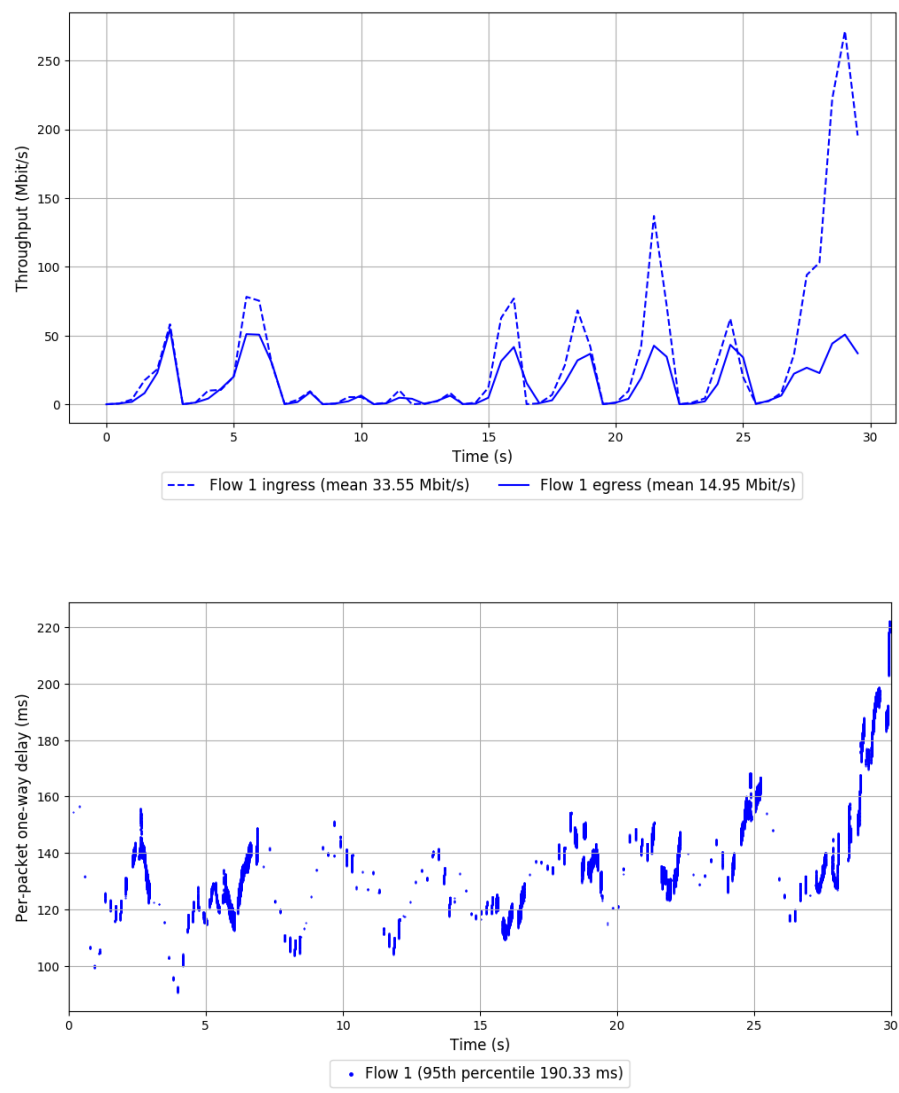


Run 3: Statistics of Verus

Start at: 2018-03-15 01:36:52
End at: 2018-03-15 01:37:22
Local clock offset: -2.289 ms
Remote clock offset: 33.811 ms

Below is generated by plot.py at 2018-03-15 05:13:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 190.329 ms
Loss rate: 55.34%
-- Flow 1:
Average throughput: 14.95 Mbit/s
95th percentile per-packet one-way delay: 190.329 ms
Loss rate: 55.34%

Run 3: Report of Verus — Data Link

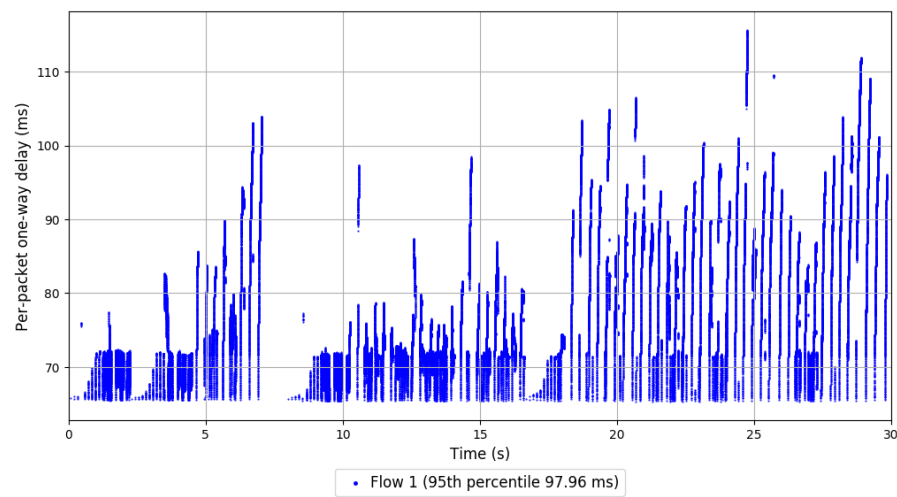
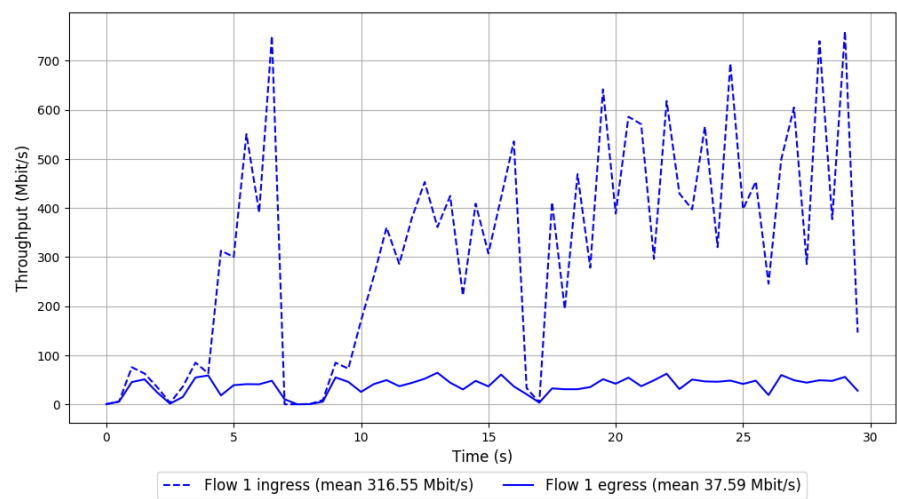


Run 4: Statistics of Verus

Start at: 2018-03-15 02:00:50
End at: 2018-03-15 02:01:20
Local clock offset: 4.323 ms
Remote clock offset: 76.789 ms

Below is generated by plot.py at 2018-03-15 05:14:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 97.960 ms
Loss rate: 88.11%
-- Flow 1:
Average throughput: 37.59 Mbit/s
95th percentile per-packet one-way delay: 97.960 ms
Loss rate: 88.11%

Run 4: Report of Verus — Data Link

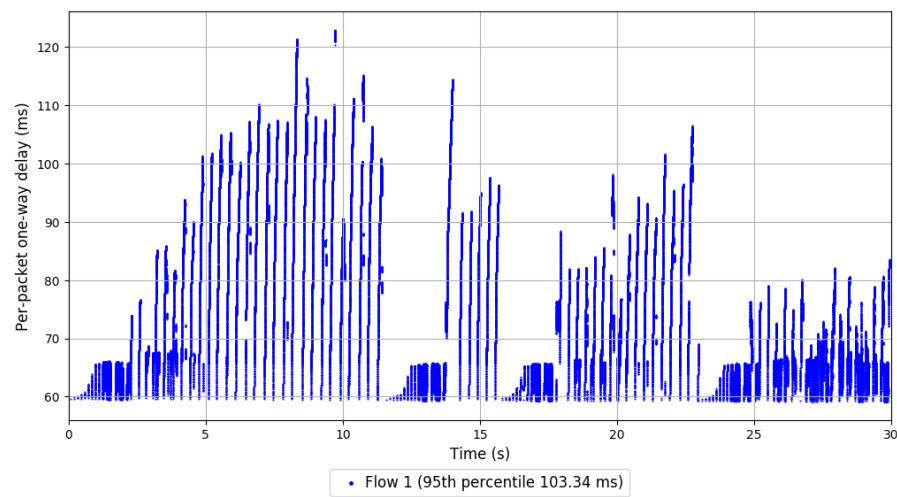
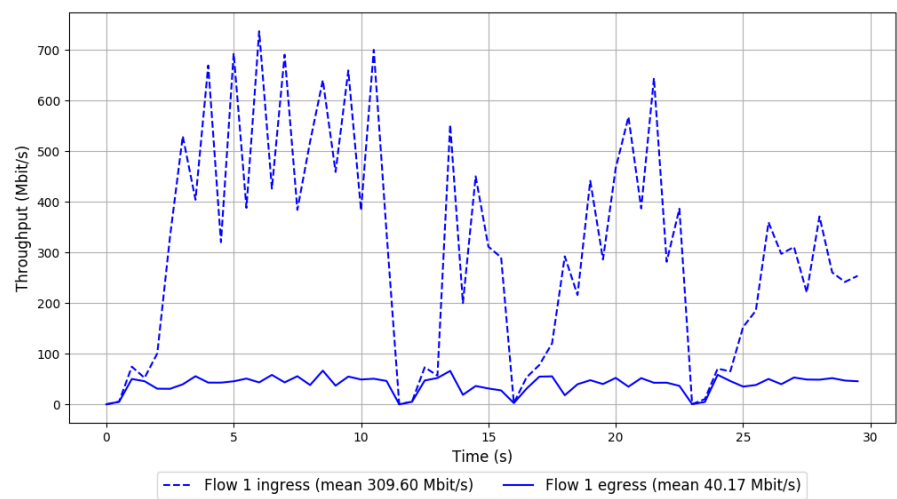


Run 5: Statistics of Verus

Start at: 2018-03-15 02:24:22
End at: 2018-03-15 02:24:52
Local clock offset: 9.667 ms
Remote clock offset: 72.978 ms

Below is generated by plot.py at 2018-03-15 05:14:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 103.339 ms
Loss rate: 87.02%
-- Flow 1:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 103.339 ms
Loss rate: 87.02%

Run 5: Report of Verus — Data Link

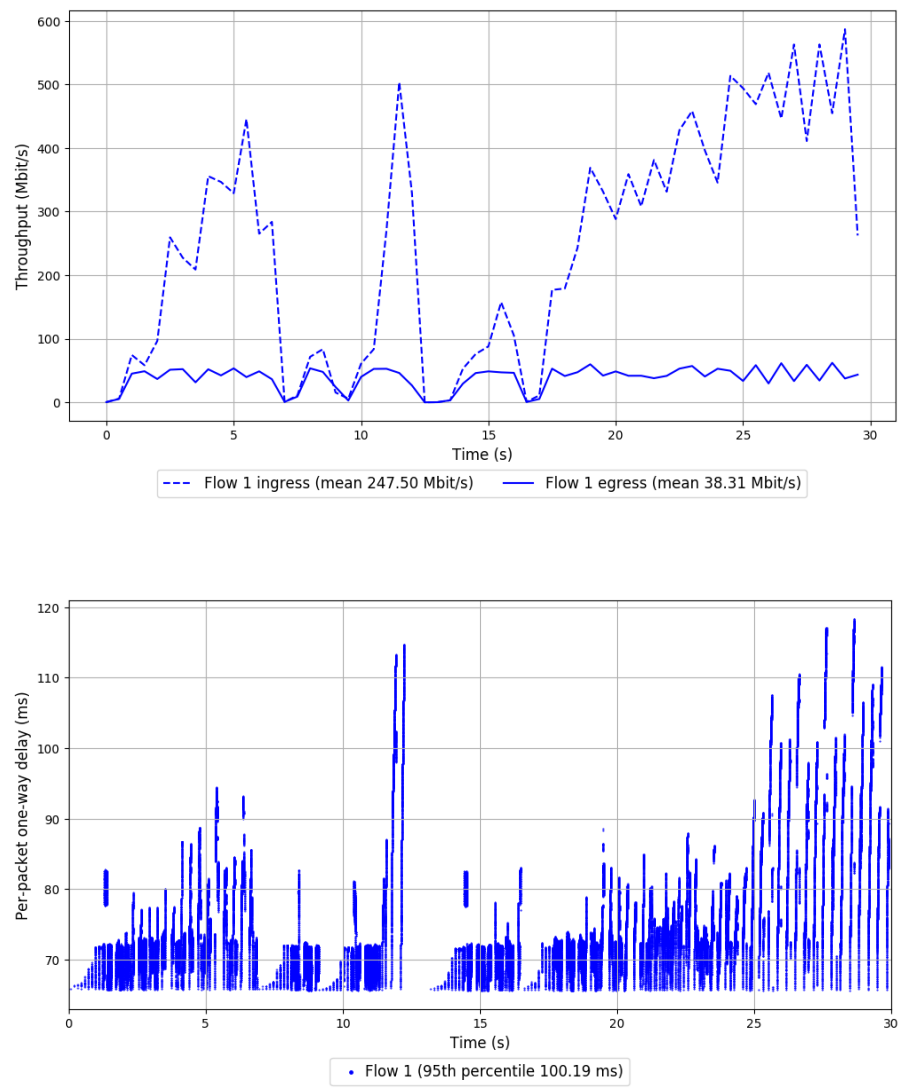


Run 6: Statistics of Verus

Start at: 2018-03-15 02:48:45
End at: 2018-03-15 02:49:15
Local clock offset: 5.772 ms
Remote clock offset: 85.901 ms

Below is generated by plot.py at 2018-03-15 05:14:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 38.31 Mbit/s
95th percentile per-packet one-way delay: 100.190 ms
Loss rate: 84.51%
-- Flow 1:
Average throughput: 38.31 Mbit/s
95th percentile per-packet one-way delay: 100.190 ms
Loss rate: 84.51%

Run 6: Report of Verus — Data Link

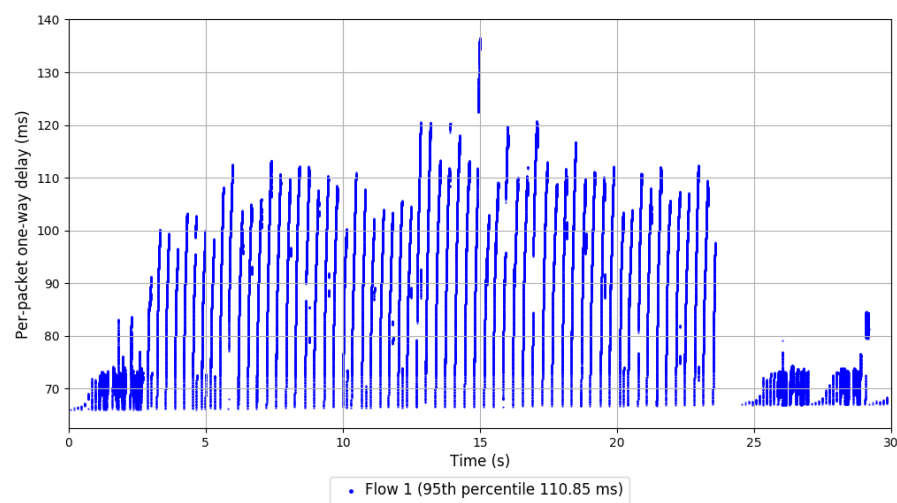
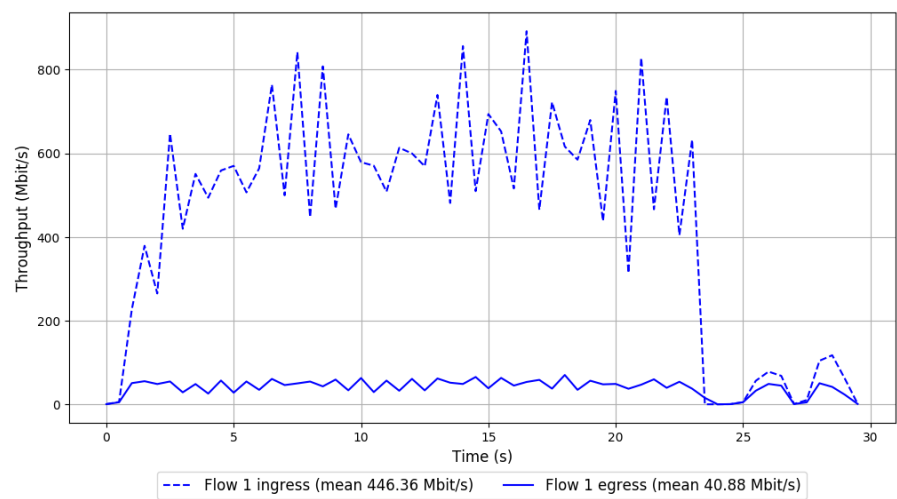


Run 7: Statistics of Verus

Start at: 2018-03-15 03:12:52
End at: 2018-03-15 03:13:22
Local clock offset: 6.513 ms
Remote clock offset: 94.209 ms

Below is generated by plot.py at 2018-03-15 05:14:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 110.852 ms
Loss rate: 90.84%
-- Flow 1:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 110.852 ms
Loss rate: 90.84%

Run 7: Report of Verus — Data Link

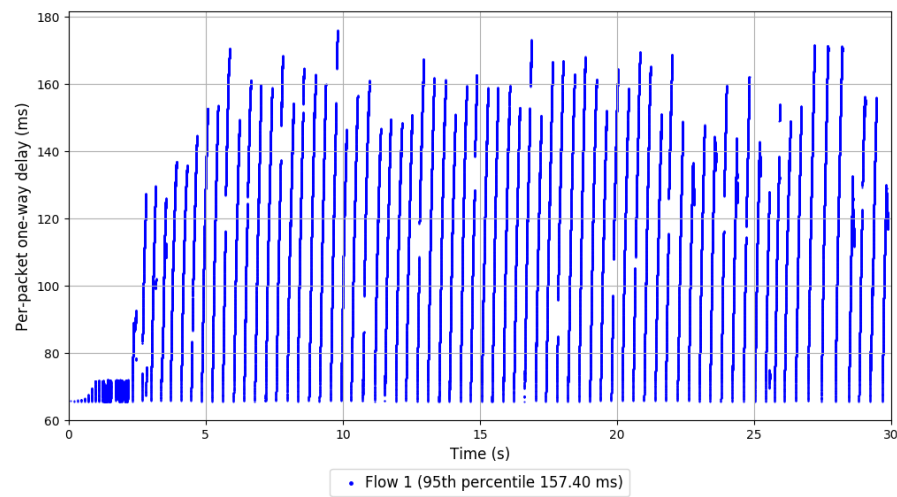
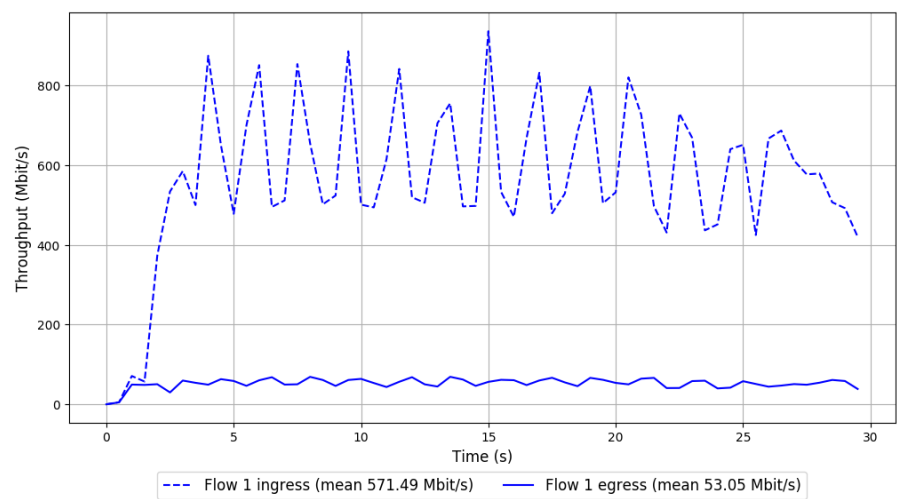


Run 8: Statistics of Verus

Start at: 2018-03-15 03:37:11
End at: 2018-03-15 03:37:41
Local clock offset: 5.271 ms
Remote clock offset: 74.564 ms

Below is generated by plot.py at 2018-03-15 05:15:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 157.402 ms
Loss rate: 90.70%
-- Flow 1:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 157.402 ms
Loss rate: 90.70%

Run 8: Report of Verus — Data Link

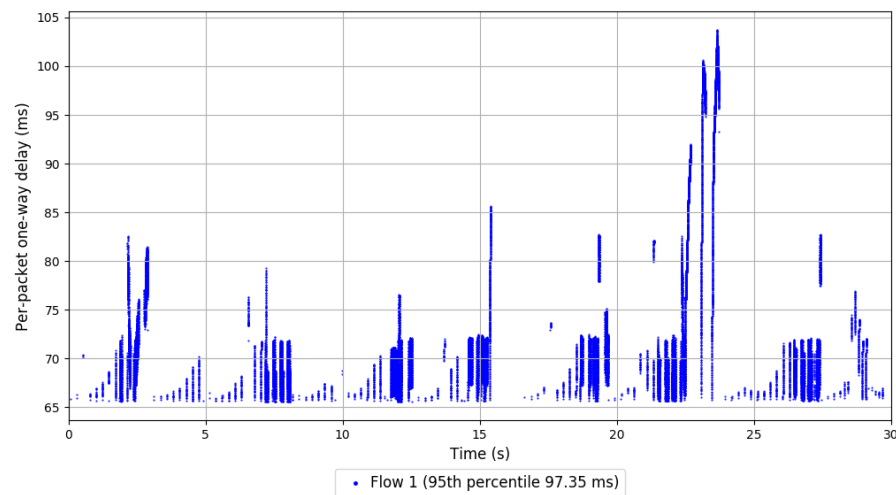
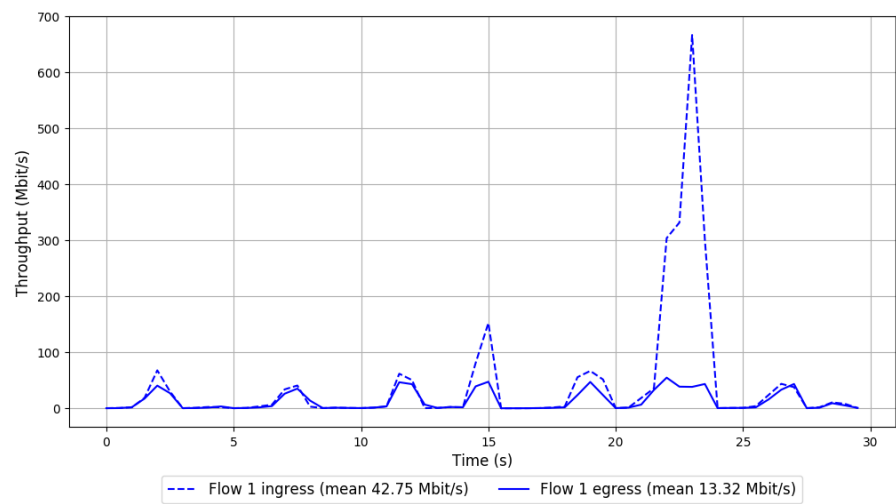


Run 9: Statistics of Verus

Start at: 2018-03-15 04:02:10
End at: 2018-03-15 04:02:40
Local clock offset: 2.251 ms
Remote clock offset: 63.294 ms

Below is generated by plot.py at 2018-03-15 05:15:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 97.354 ms
Loss rate: 68.85%
-- Flow 1:
Average throughput: 13.32 Mbit/s
95th percentile per-packet one-way delay: 97.354 ms
Loss rate: 68.85%

Run 9: Report of Verus — Data Link

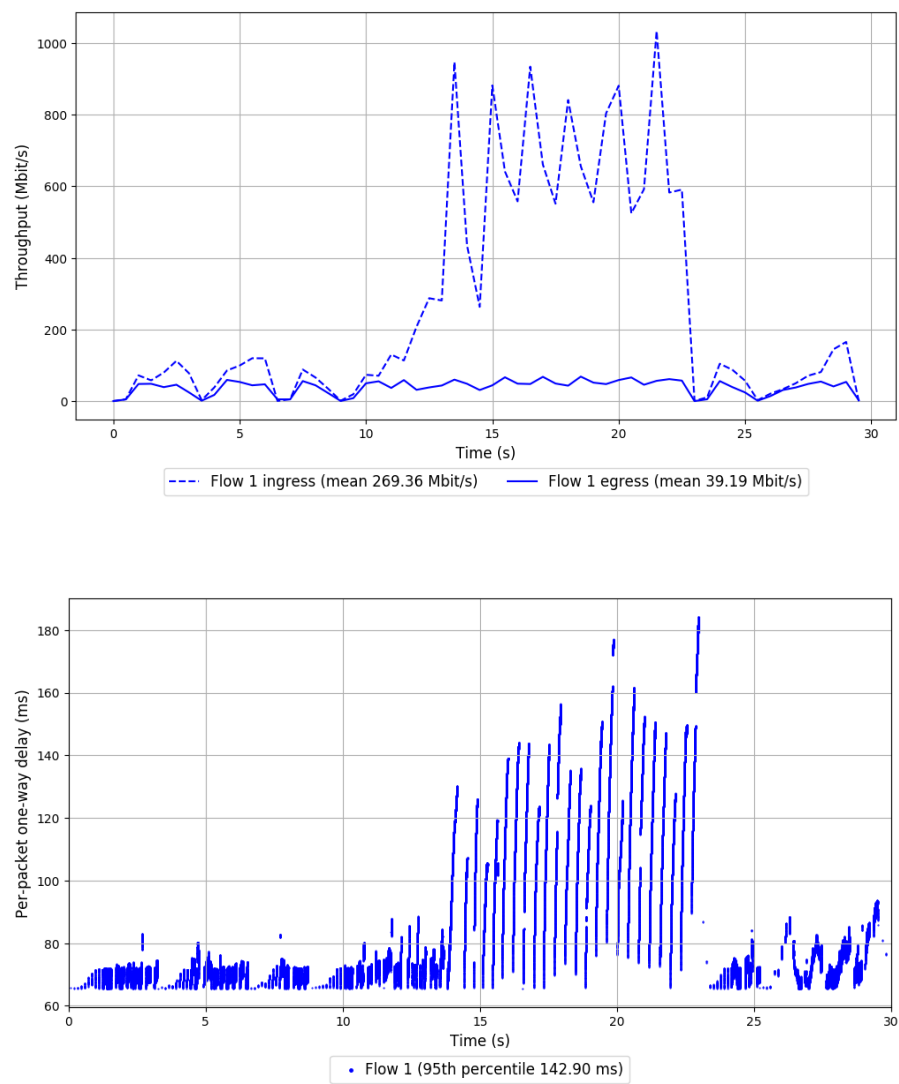


Run 10: Statistics of Verus

Start at: 2018-03-15 04:25:39
End at: 2018-03-15 04:26:09
Local clock offset: -2.311 ms
Remote clock offset: 57.368 ms

Below is generated by plot.py at 2018-03-15 05:15:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: 142.900 ms
Loss rate: 85.44%
-- Flow 1:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: 142.900 ms
Loss rate: 85.44%

Run 10: Report of Verus — Data Link

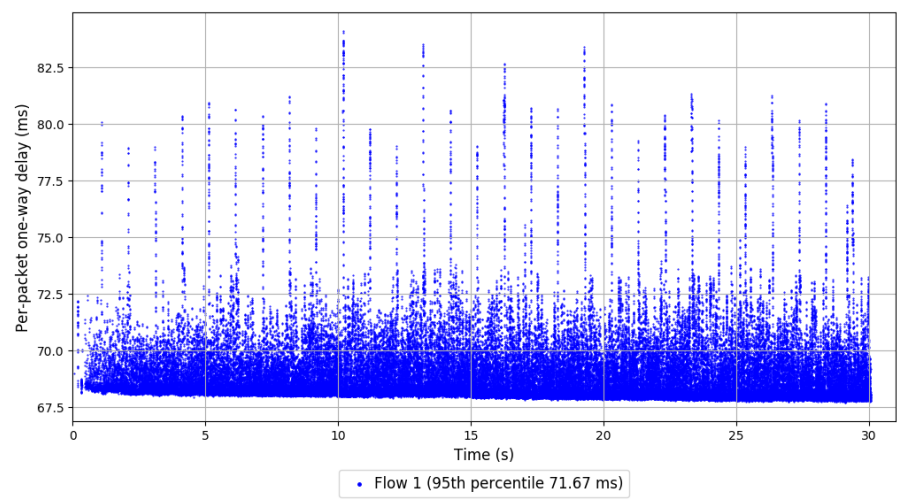
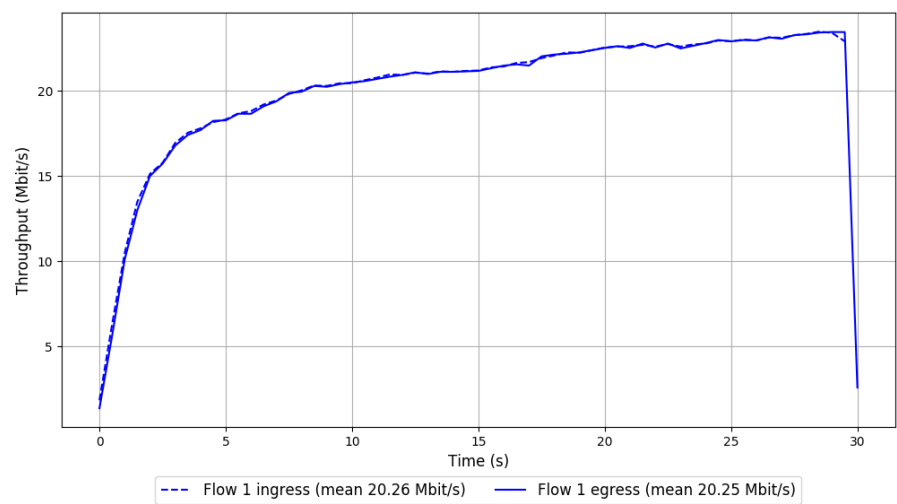


Run 1: Statistics of Copa

Start at: 2018-03-15 00:44:56
End at: 2018-03-15 00:45:26
Local clock offset: 1.387 ms
Remote clock offset: 11.859 ms

Below is generated by plot.py at 2018-03-15 05:15:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.25 Mbit/s
95th percentile per-packet one-way delay: 71.673 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 20.25 Mbit/s
95th percentile per-packet one-way delay: 71.673 ms
Loss rate: 0.06%

Run 1: Report of Copa — Data Link

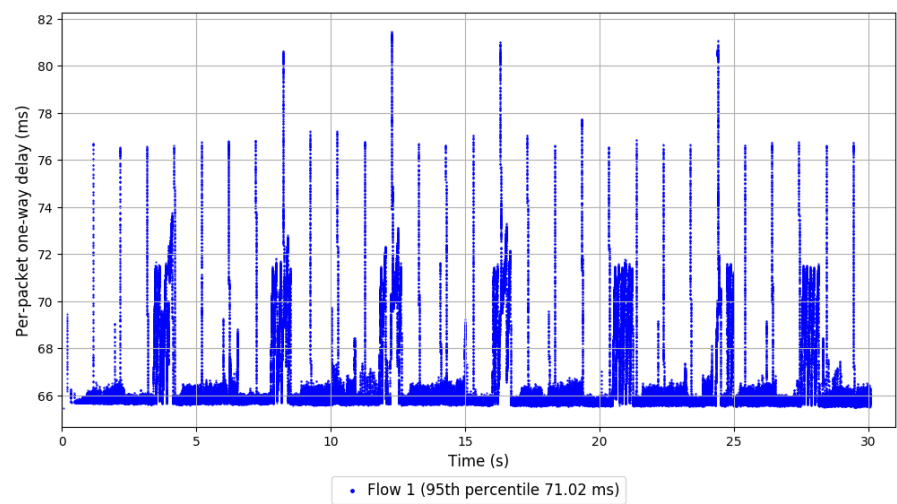
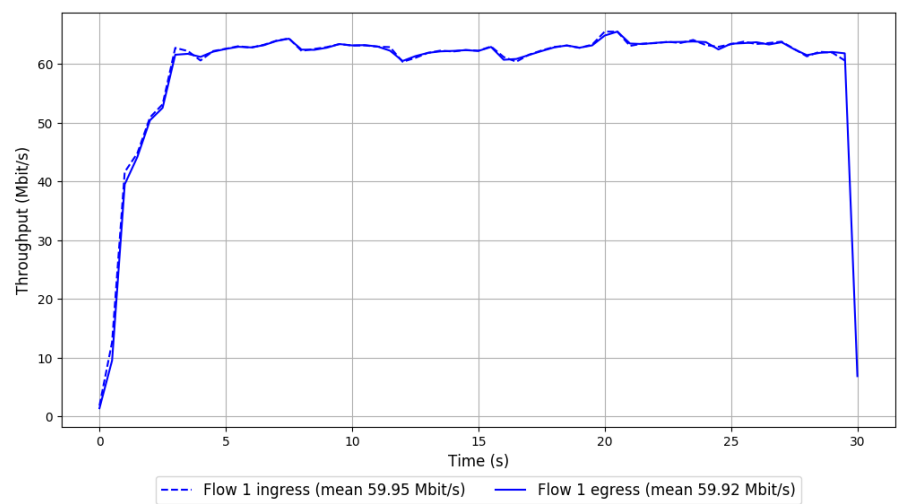


Run 2: Statistics of Copa

Start at: 2018-03-15 01:08:05
End at: 2018-03-15 01:08:35
Local clock offset: -2.011 ms
Remote clock offset: 15.538 ms

Below is generated by plot.py at 2018-03-15 05:15:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.92 Mbit/s
95th percentile per-packet one-way delay: 71.016 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 59.92 Mbit/s
95th percentile per-packet one-way delay: 71.016 ms
Loss rate: 0.05%

Run 2: Report of Copa — Data Link

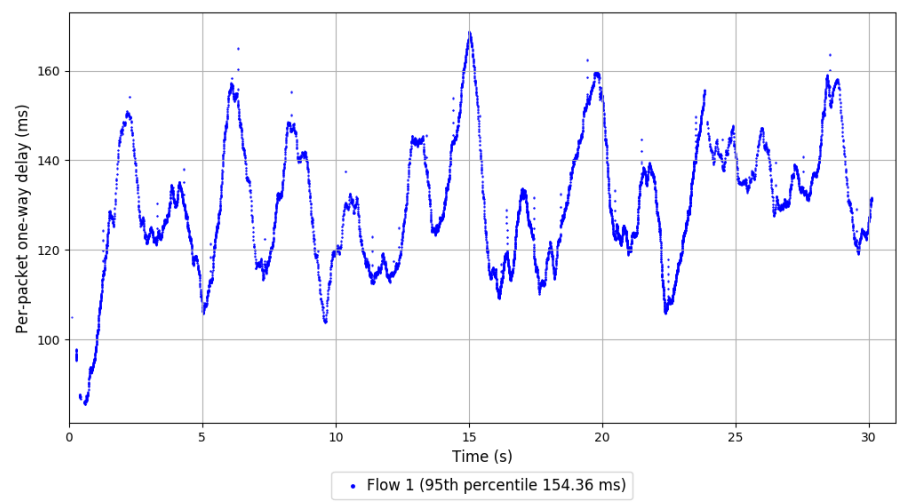
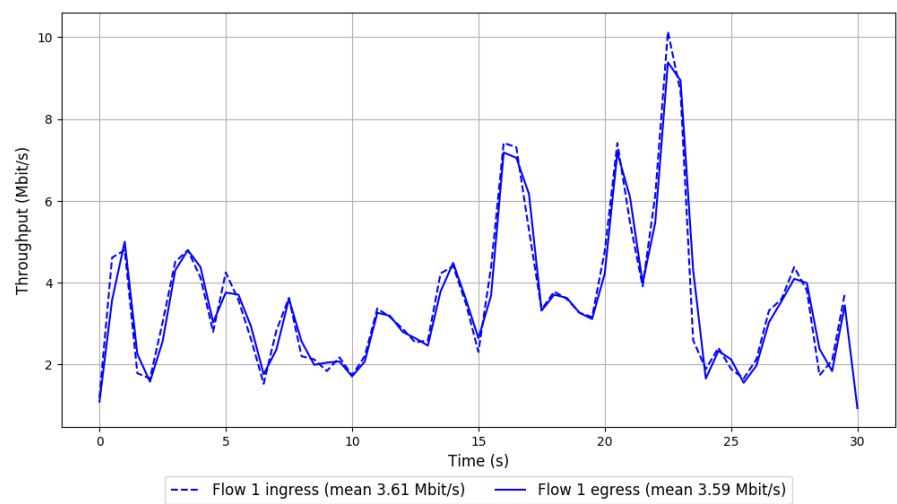


Run 3: Statistics of Copa

Start at: 2018-03-15 01:31:57
End at: 2018-03-15 01:32:27
Local clock offset: -2.295 ms
Remote clock offset: 25.987 ms

Below is generated by plot.py at 2018-03-15 05:15:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 154.361 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 3.59 Mbit/s
95th percentile per-packet one-way delay: 154.361 ms
Loss rate: 0.30%

Run 3: Report of Copa — Data Link

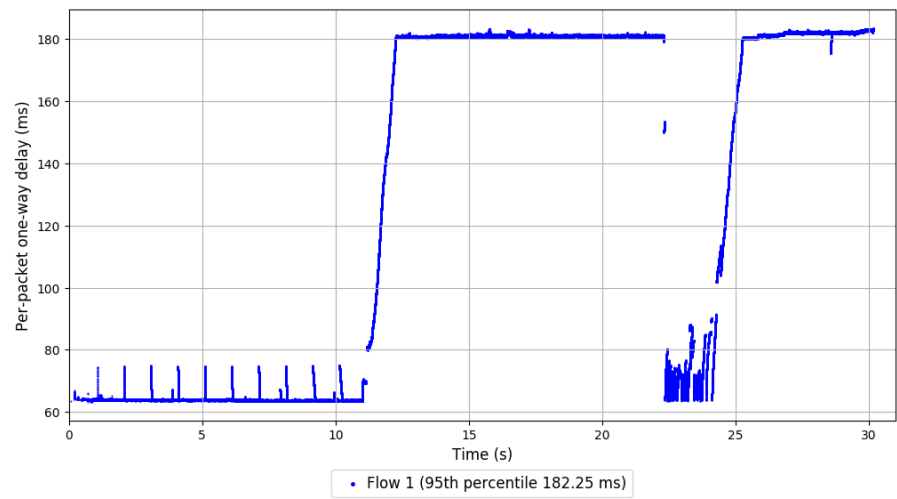
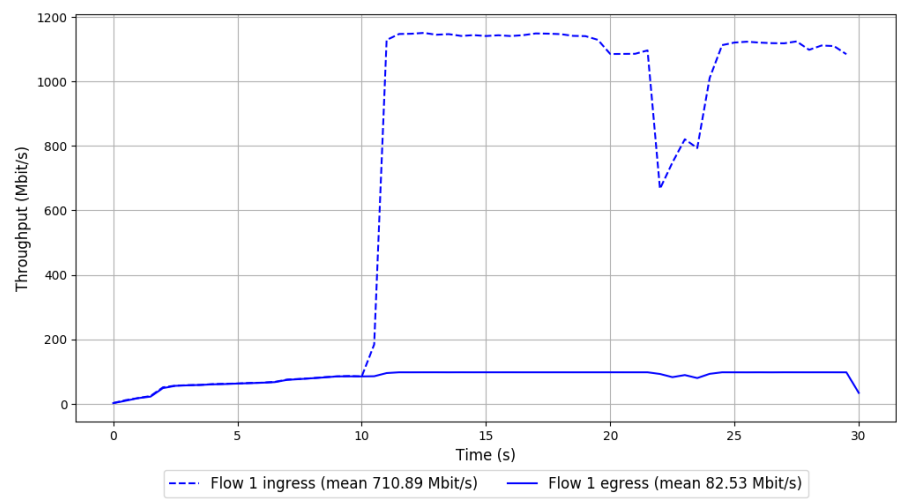


Run 4: Statistics of Copa

Start at: 2018-03-15 01:55:47
End at: 2018-03-15 01:56:17
Local clock offset: 1.872 ms
Remote clock offset: 70.029 ms

Below is generated by plot.py at 2018-03-15 05:20:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.53 Mbit/s
95th percentile per-packet one-way delay: 182.248 ms
Loss rate: 88.34%
-- Flow 1:
Average throughput: 82.53 Mbit/s
95th percentile per-packet one-way delay: 182.248 ms
Loss rate: 88.34%

Run 4: Report of Copa — Data Link

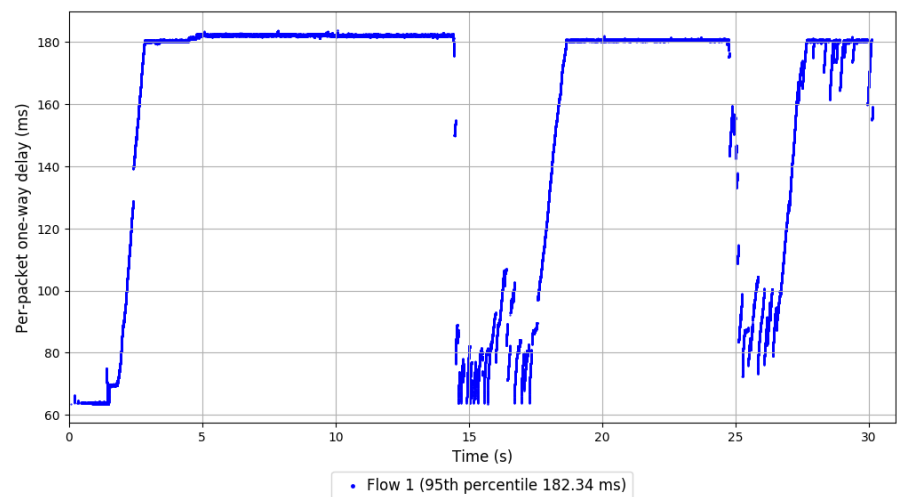
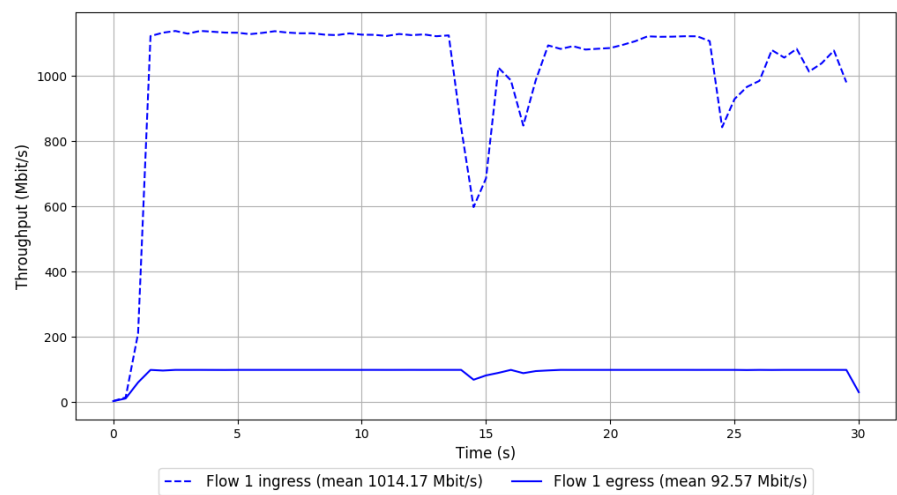


Run 5: Statistics of Copa

Start at: 2018-03-15 02:19:14
End at: 2018-03-15 02:19:44
Local clock offset: 8.668 ms
Remote clock offset: 74.894 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 182.335 ms
Loss rate: 90.84%
-- Flow 1:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 182.335 ms
Loss rate: 90.84%

Run 5: Report of Copa — Data Link

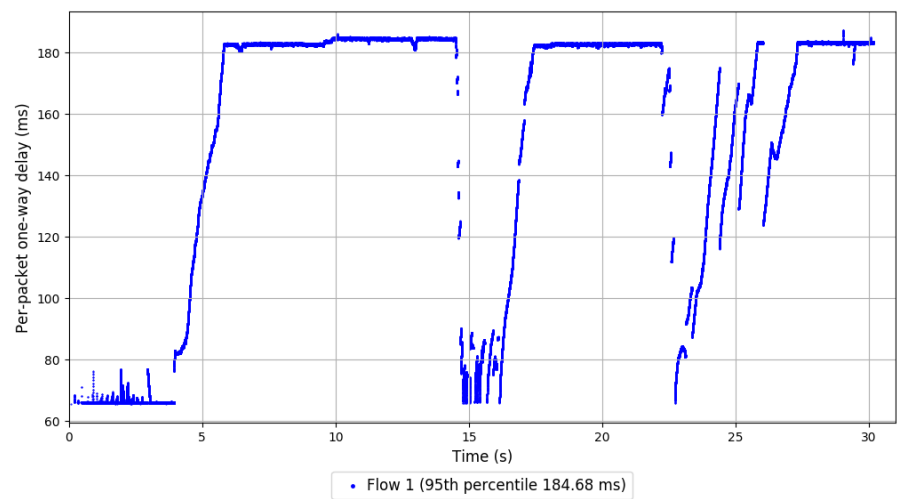
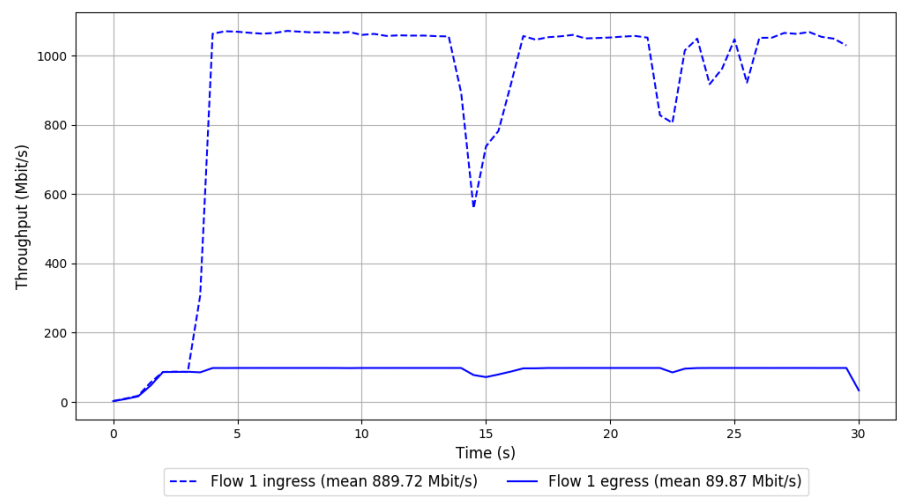


Run 6: Statistics of Copa

Start at: 2018-03-15 02:43:39
End at: 2018-03-15 02:44:09
Local clock offset: 6.012 ms
Remote clock offset: 84.803 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 184.684 ms
Loss rate: 89.86%
-- Flow 1:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 184.684 ms
Loss rate: 89.86%

Run 6: Report of Copa — Data Link

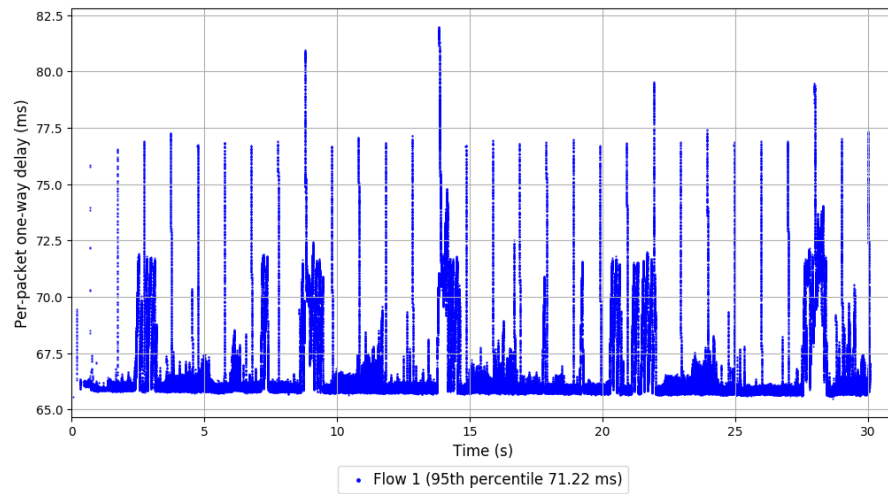
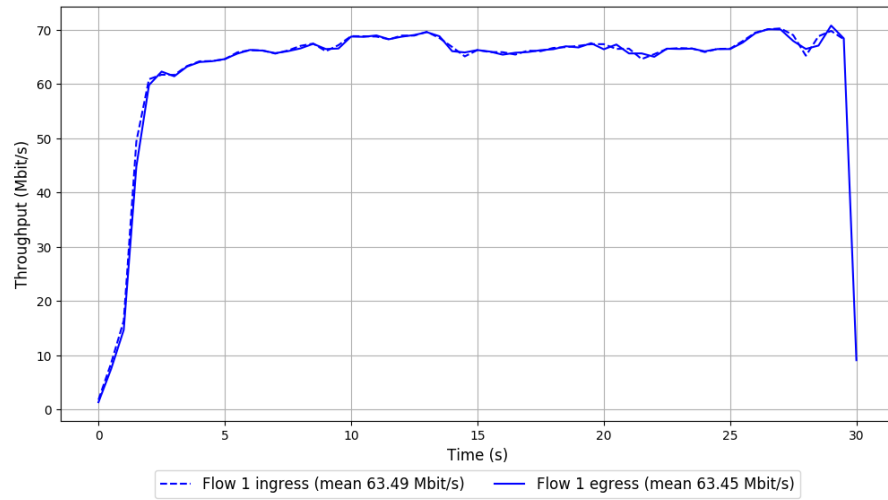


Run 7: Statistics of Copa

Start at: 2018-03-15 03:07:13
End at: 2018-03-15 03:07:43
Local clock offset: 6.277 ms
Remote clock offset: 92.734 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.45 Mbit/s
95th percentile per-packet one-way delay: 71.225 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 63.45 Mbit/s
95th percentile per-packet one-way delay: 71.225 ms
Loss rate: 0.06%

Run 7: Report of Copa — Data Link

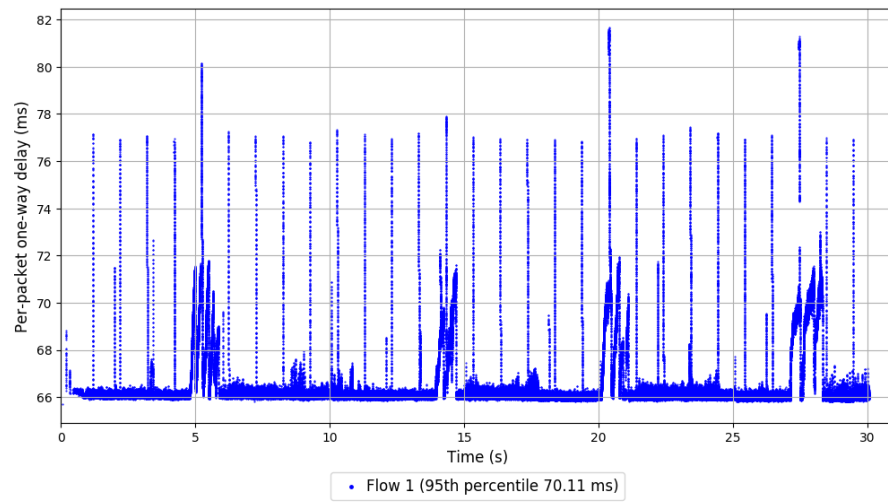
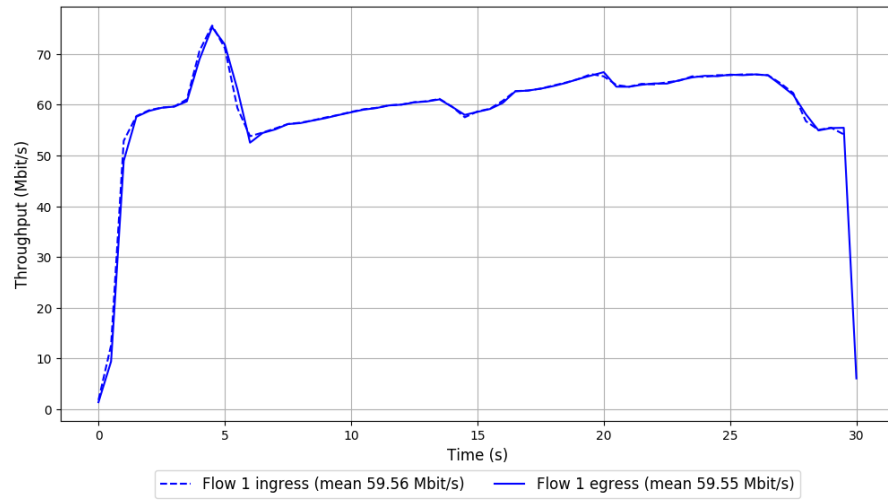


Run 8: Statistics of Copa

Start at: 2018-03-15 03:32:23
End at: 2018-03-15 03:32:53
Local clock offset: 6.792 ms
Remote clock offset: 75.517 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.55 Mbit/s
95th percentile per-packet one-way delay: 70.115 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 59.55 Mbit/s
95th percentile per-packet one-way delay: 70.115 ms
Loss rate: 0.02%

Run 8: Report of Copa — Data Link

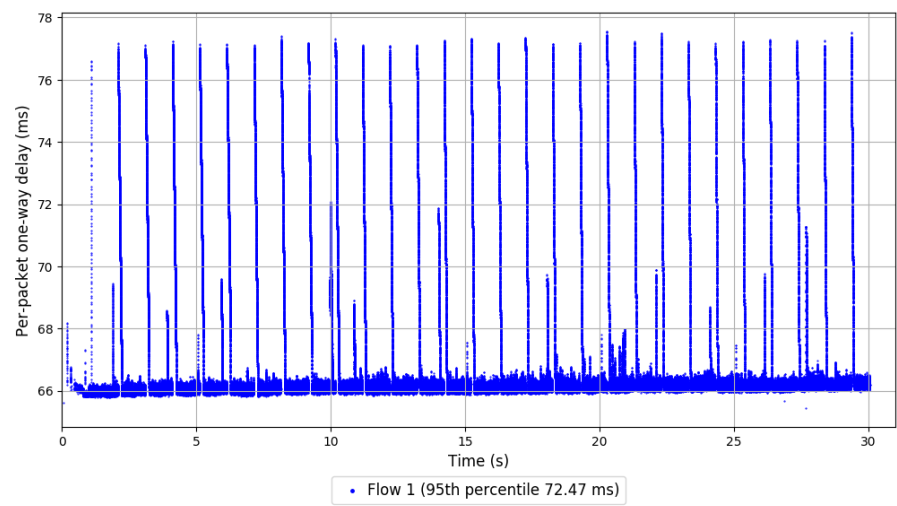
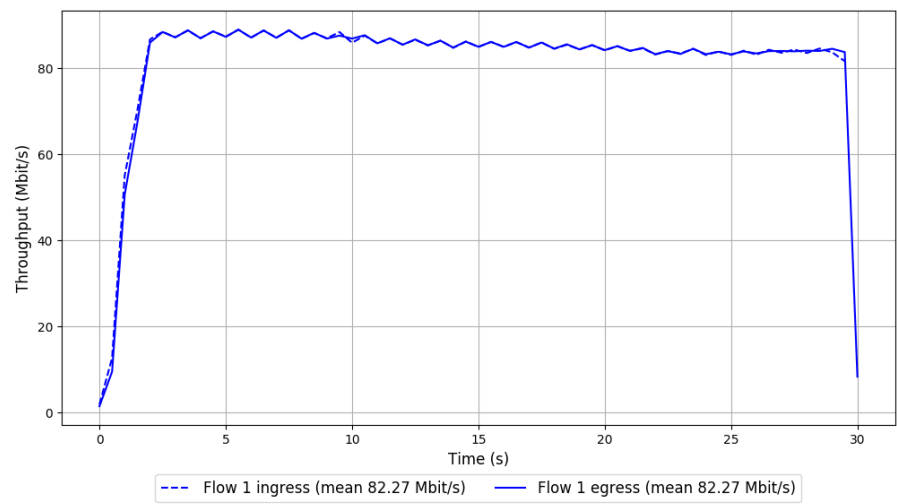


Run 9: Statistics of Copa

Start at: 2018-03-15 03:57:05
End at: 2018-03-15 03:57:35
Local clock offset: 2.12 ms
Remote clock offset: 65.294 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.27 Mbit/s
95th percentile per-packet one-way delay: 72.470 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.27 Mbit/s
95th percentile per-packet one-way delay: 72.470 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

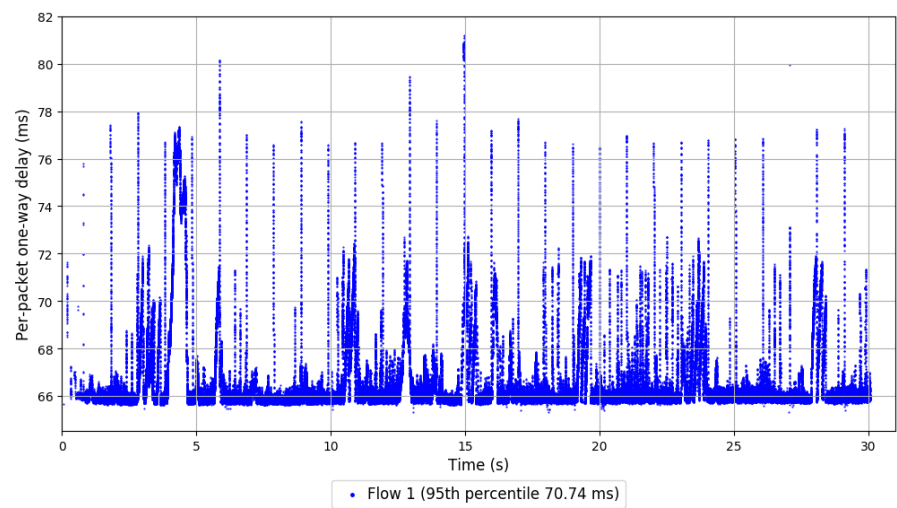
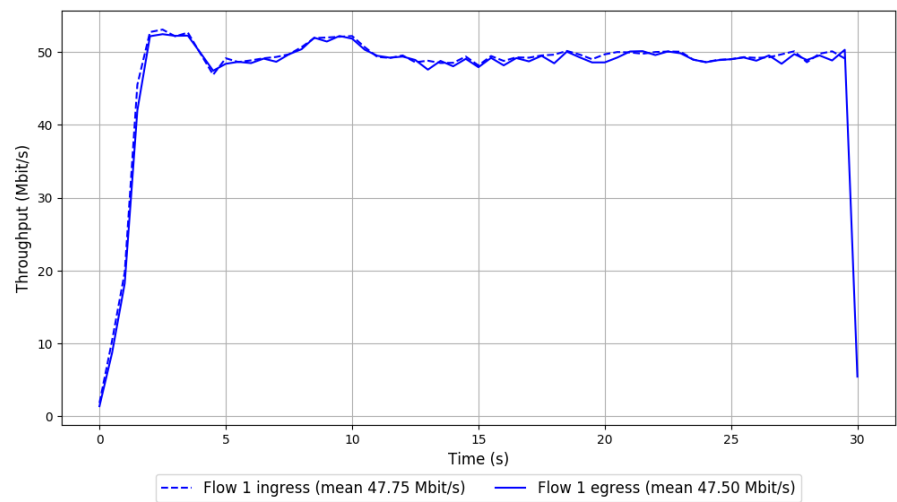


Run 10: Statistics of Copa

Start at: 2018-03-15 04:20:53
End at: 2018-03-15 04:21:23
Local clock offset: -1.506 ms
Remote clock offset: 58.939 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 70.739 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 70.739 ms
Loss rate: 0.53%

Run 10: Report of Copa — Data Link

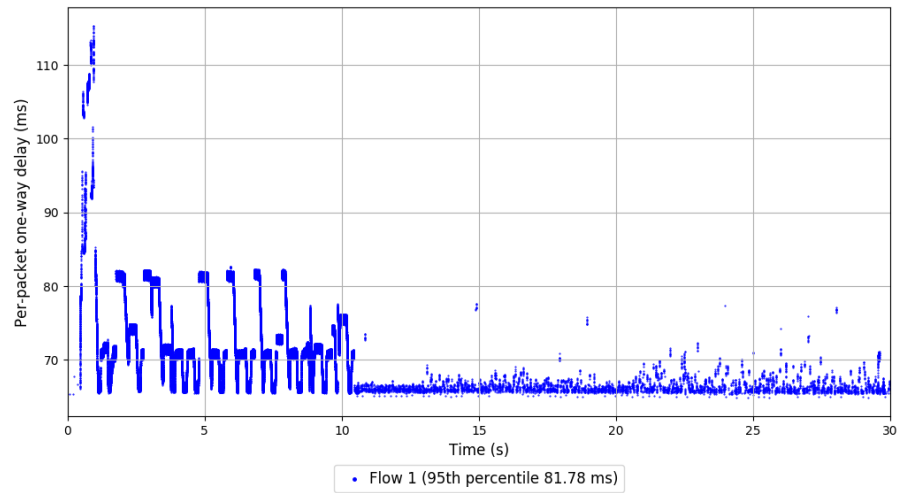
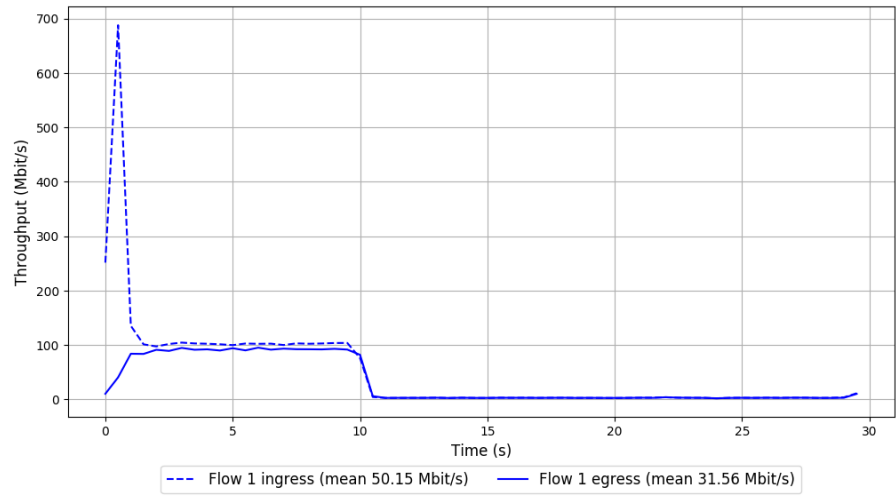


Run 1: Statistics of FillP

Start at: 2018-03-15 00:46:08
End at: 2018-03-15 00:46:38
Local clock offset: 3.316 ms
Remote clock offset: 12.215 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 81.776 ms
Loss rate: 37.06%
-- Flow 1:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 81.776 ms
Loss rate: 37.06%

Run 1: Report of FillP — Data Link

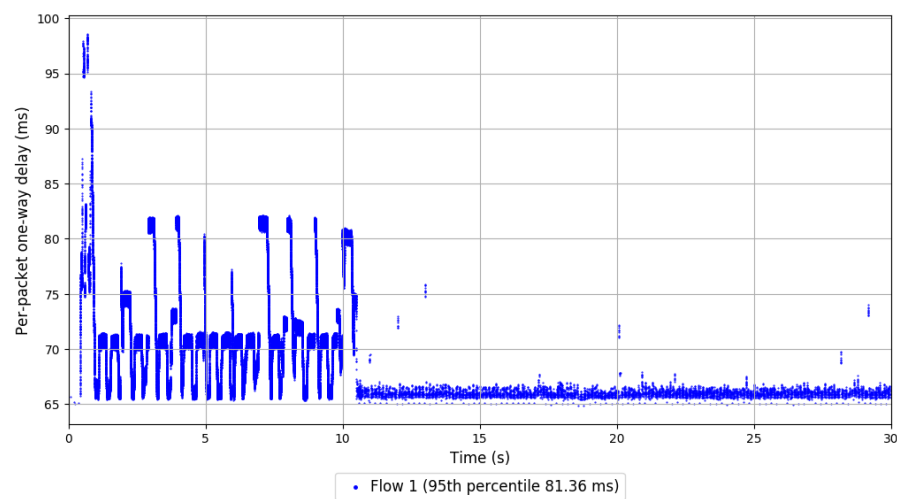
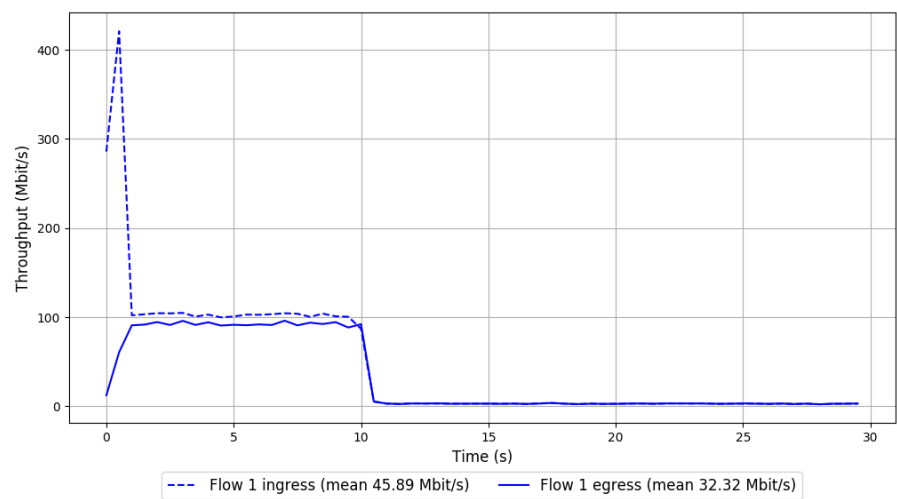


Run 2: Statistics of FillP

Start at: 2018-03-15 01:09:20
End at: 2018-03-15 01:09:50
Local clock offset: -1.995 ms
Remote clock offset: 15.758 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 81.356 ms
Loss rate: 29.57%
-- Flow 1:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 81.356 ms
Loss rate: 29.57%

Run 2: Report of FillP — Data Link

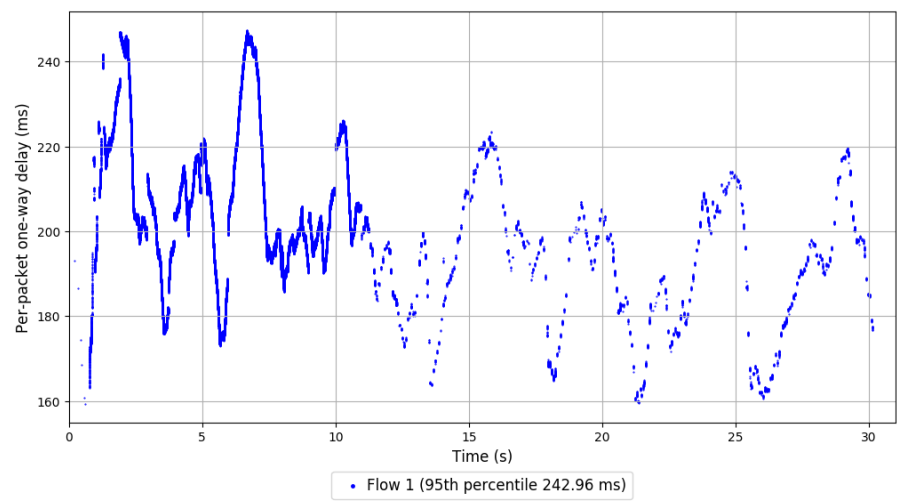
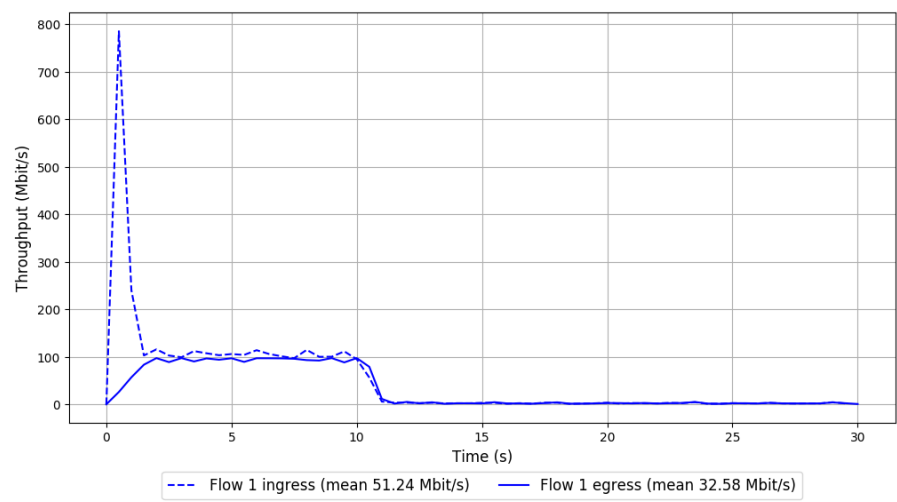


Run 3: Statistics of FillP

Start at: 2018-03-15 01:33:10
End at: 2018-03-15 01:33:40
Local clock offset: -2.102 ms
Remote clock offset: 30.735 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 242.960 ms
Loss rate: 36.45%
-- Flow 1:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 242.960 ms
Loss rate: 36.45%

Run 3: Report of FillP — Data Link

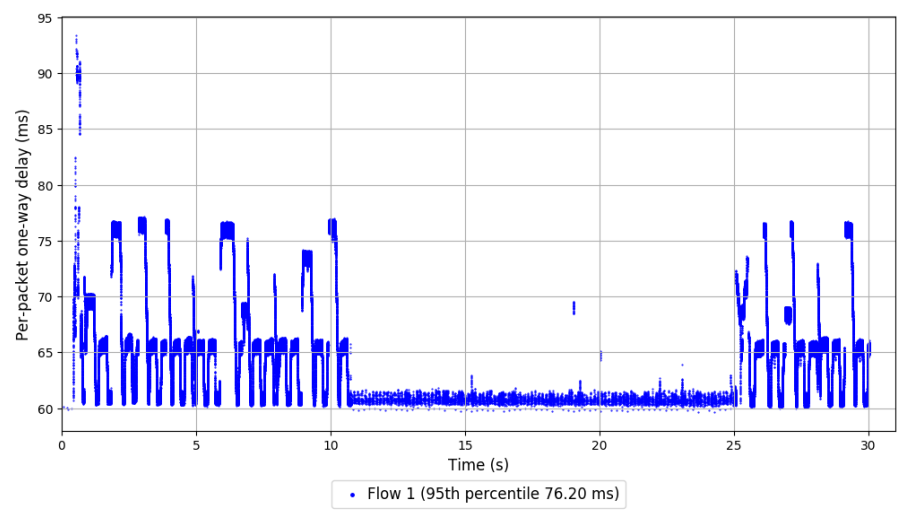
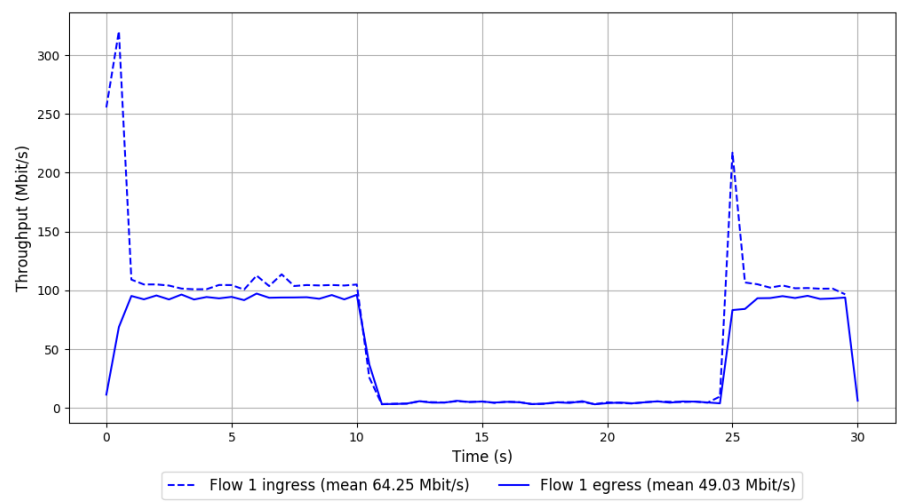


Run 4: Statistics of FillP

Start at: 2018-03-15 01:57:17
End at: 2018-03-15 01:57:47
Local clock offset: 2.68 ms
Remote clock offset: 68.116 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 76.201 ms
Loss rate: 23.67%
-- Flow 1:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 76.201 ms
Loss rate: 23.67%

Run 4: Report of FillP — Data Link

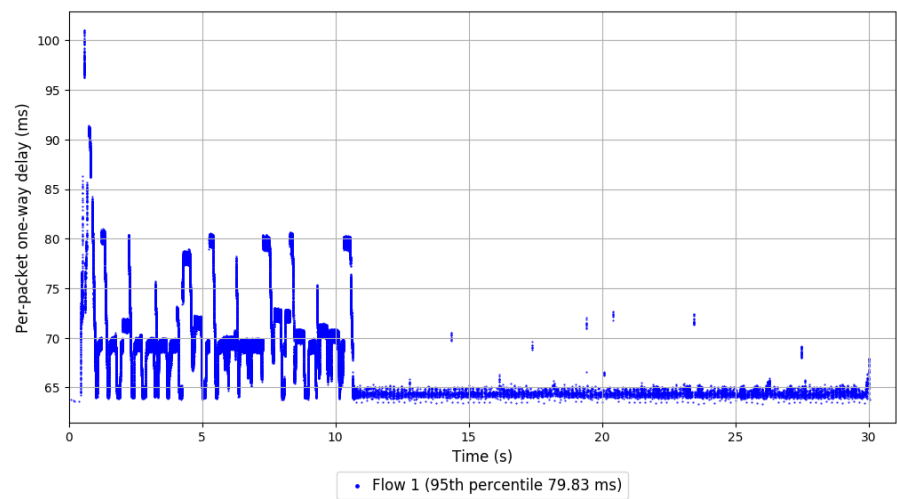
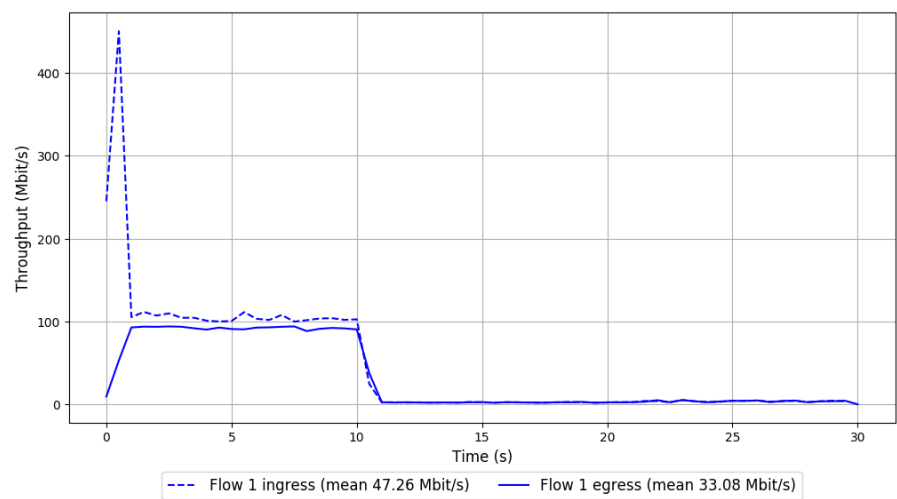


Run 5: Statistics of FillP

Start at: 2018-03-15 02:20:50
End at: 2018-03-15 02:21:20
Local clock offset: 9.168 ms
Remote clock offset: 75.713 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 79.826 ms
Loss rate: 30.01%
-- Flow 1:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 79.826 ms
Loss rate: 30.01%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-15 02:45:12

End at: 2018-03-15 02:45:42

Local clock offset: 5.935 ms

Remote clock offset: 85.07 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 81.529 ms

Loss rate: 21.59%

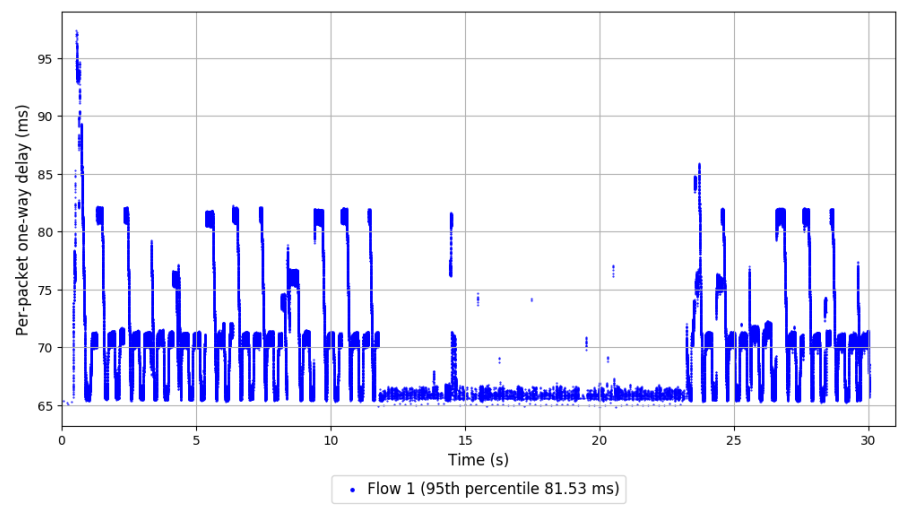
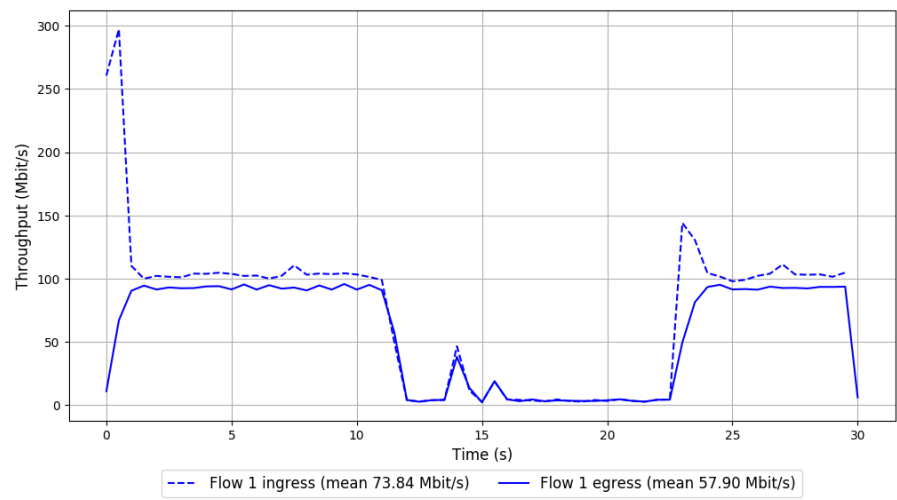
-- Flow 1:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 81.529 ms

Loss rate: 21.59%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-15 03:08:28

End at: 2018-03-15 03:08:58

Local clock offset: 6.231 ms

Remote clock offset: 93.16 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 81.727 ms

Loss rate: 31.66%

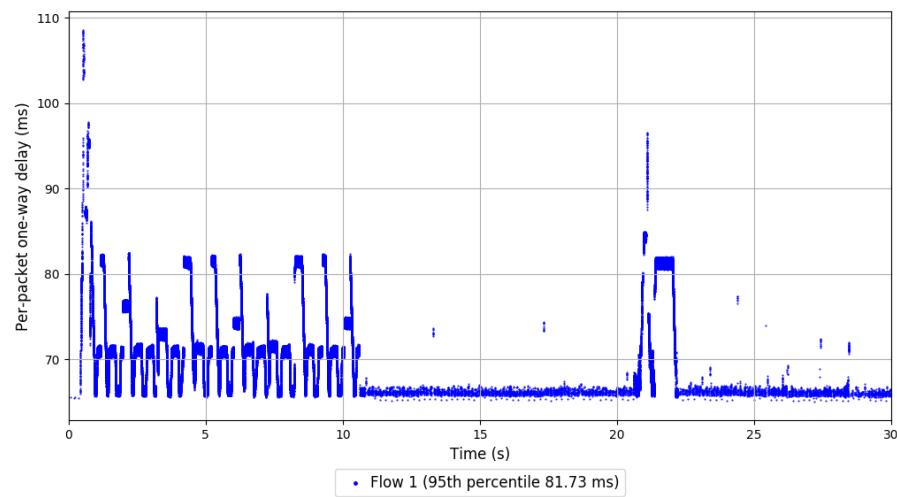
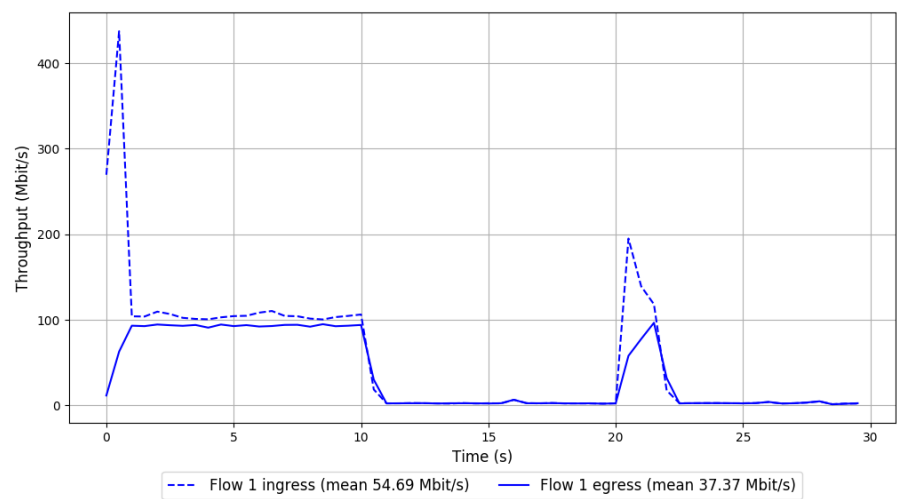
-- Flow 1:

Average throughput: 37.37 Mbit/s

95th percentile per-packet one-way delay: 81.727 ms

Loss rate: 31.66%

Run 7: Report of FillP — Data Link

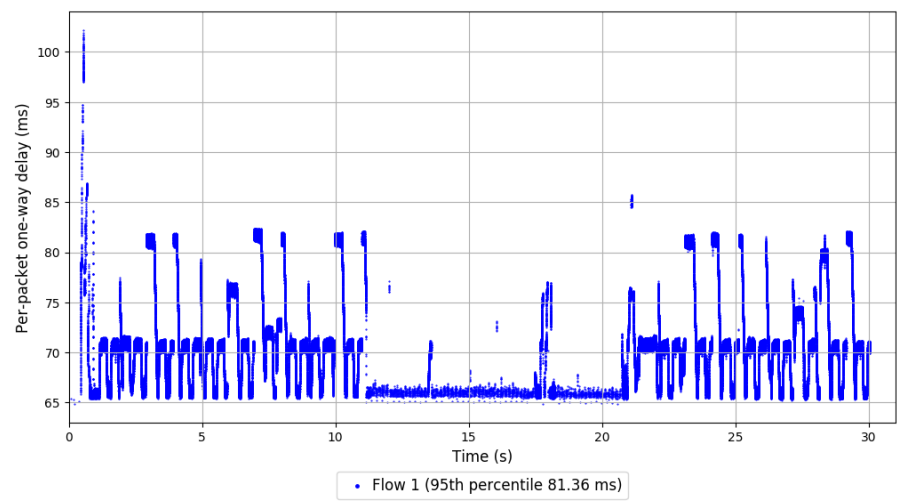
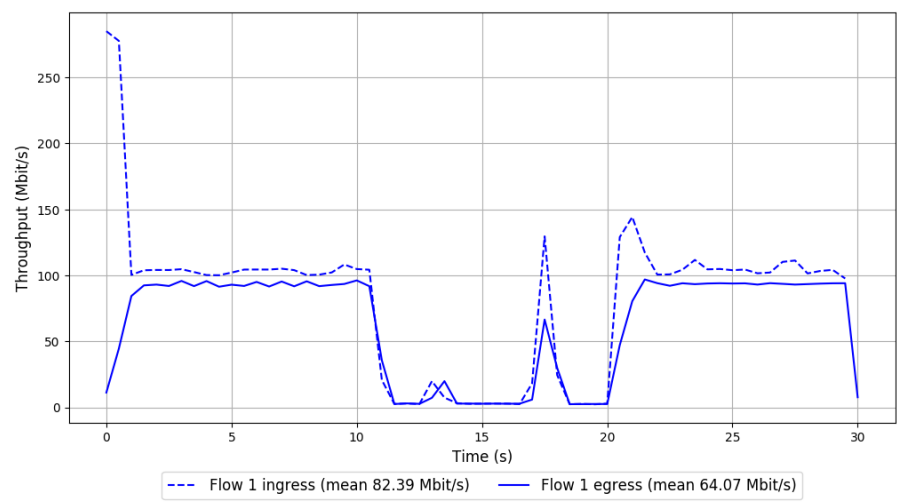


Run 8: Statistics of FillP

Start at: 2018-03-15 03:33:38
End at: 2018-03-15 03:34:08
Local clock offset: 6.373 ms
Remote clock offset: 75.212 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.07 Mbit/s
95th percentile per-packet one-way delay: 81.361 ms
Loss rate: 22.22%
-- Flow 1:
Average throughput: 64.07 Mbit/s
95th percentile per-packet one-way delay: 81.361 ms
Loss rate: 22.22%

Run 8: Report of FillP — Data Link

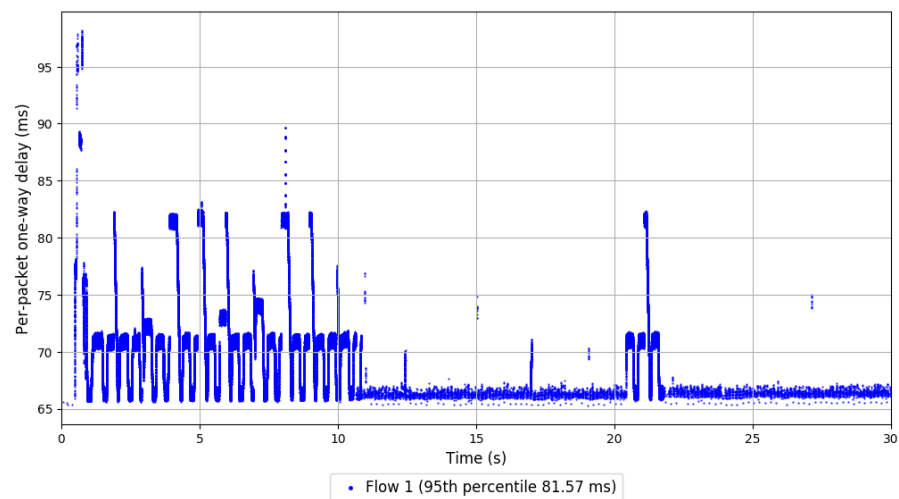
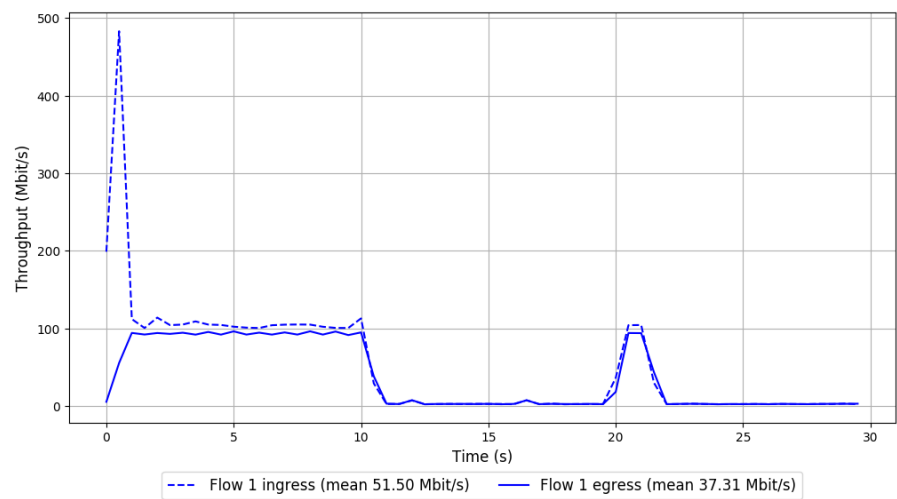


Run 9: Statistics of FillP

Start at: 2018-03-15 03:58:24
End at: 2018-03-15 03:58:54
Local clock offset: 2.263 ms
Remote clock offset: 64.802 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 81.572 ms
Loss rate: 27.55%
-- Flow 1:
Average throughput: 37.31 Mbit/s
95th percentile per-packet one-way delay: 81.572 ms
Loss rate: 27.55%

Run 9: Report of FillP — Data Link

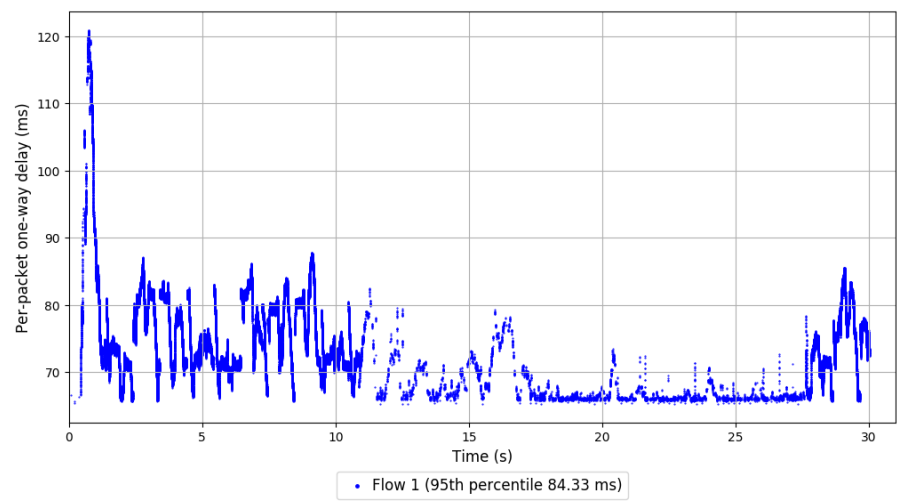
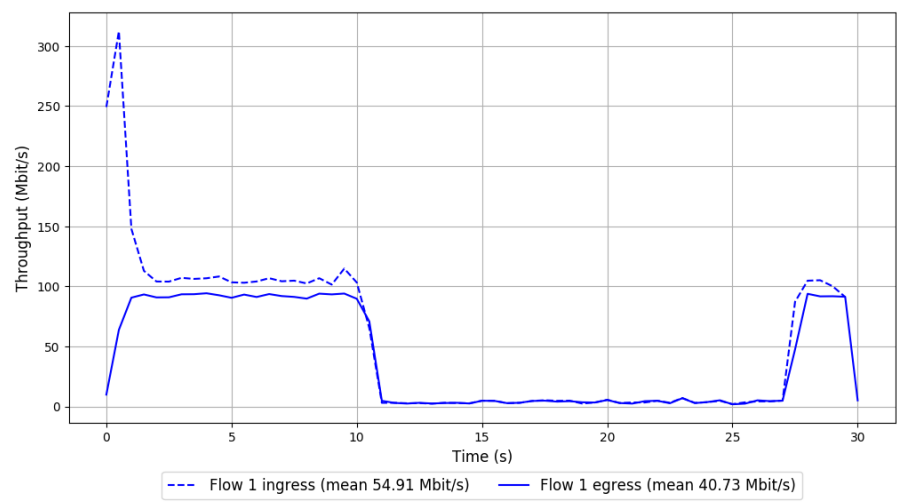


Run 10: Statistics of FillP

Start at: 2018-03-15 04:22:07
End at: 2018-03-15 04:22:37
Local clock offset: -1.749 ms
Remote clock offset: 58.479 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 84.329 ms
Loss rate: 25.80%
-- Flow 1:
Average throughput: 40.73 Mbit/s
95th percentile per-packet one-way delay: 84.329 ms
Loss rate: 25.80%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-03-15 00:57:13

End at: 2018-03-15 00:57:43

Local clock offset: -2.893 ms

Remote clock offset: 14.14 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 82.958 ms

Loss rate: 7.70%

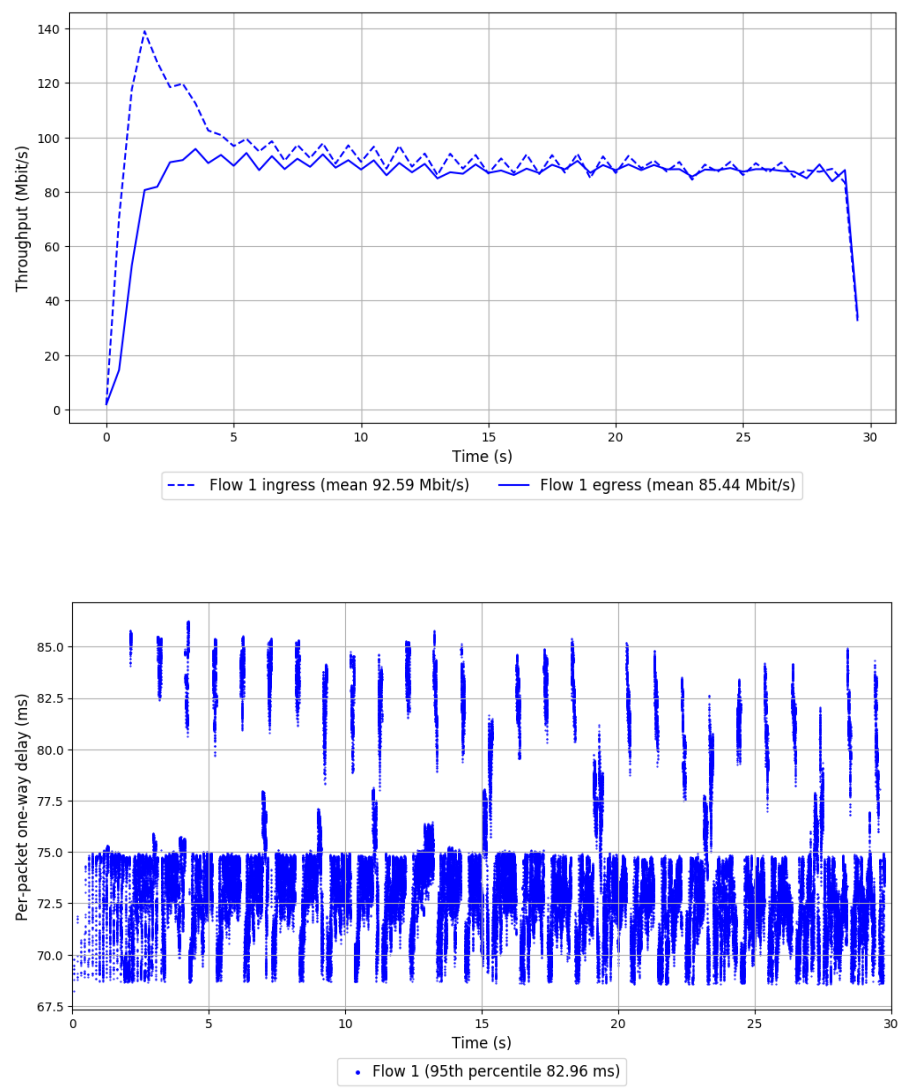
-- Flow 1:

Average throughput: 85.44 Mbit/s

95th percentile per-packet one-way delay: 82.958 ms

Loss rate: 7.70%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-15 01:20:43

End at: 2018-03-15 01:21:13

Local clock offset: -2.841 ms

Remote clock offset: -23.441 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 135.391 ms

Loss rate: 10.01%

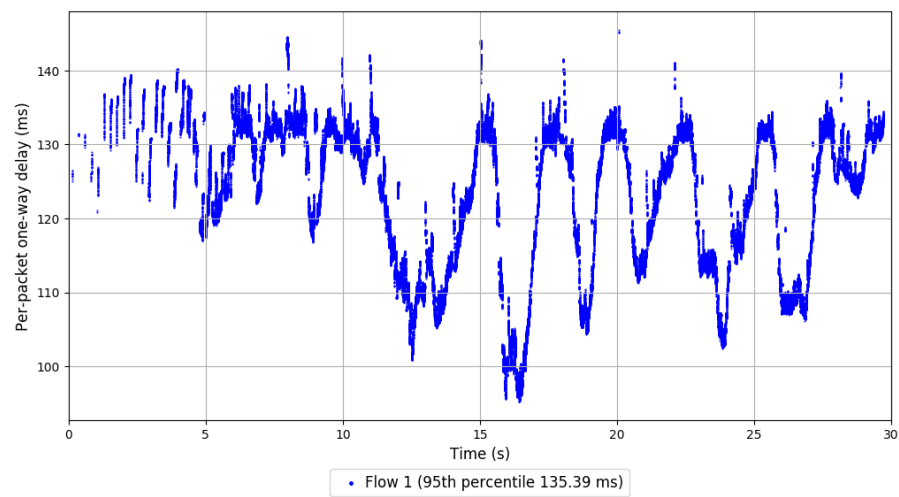
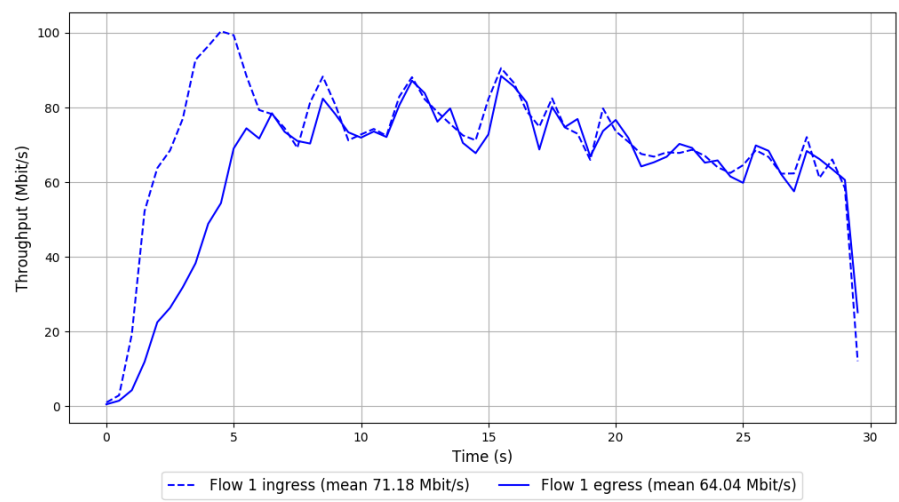
-- Flow 1:

Average throughput: 64.04 Mbit/s

95th percentile per-packet one-way delay: 135.391 ms

Loss rate: 10.01%

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

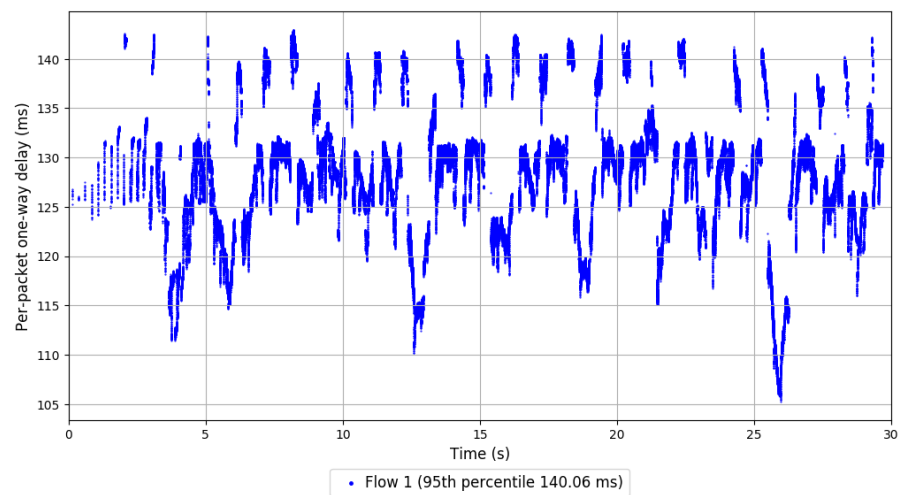
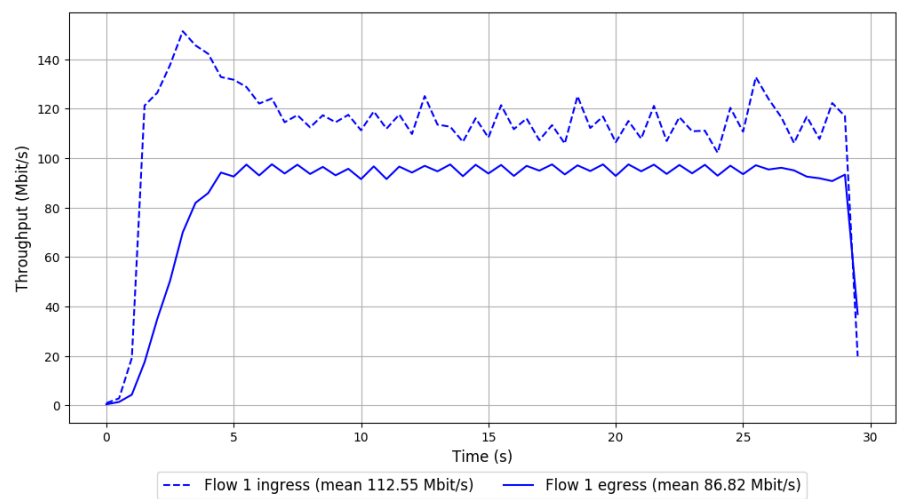


Run 3: Statistics of Indigo-1-32

Start at: 2018-03-15 01:44:31
End at: 2018-03-15 01:45:01
Local clock offset: -2.692 ms
Remote clock offset: 13.301 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 140.056 ms
Loss rate: 22.85%
-- Flow 1:
Average throughput: 86.82 Mbit/s
95th percentile per-packet one-way delay: 140.056 ms
Loss rate: 22.85%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-15 02:08:18

End at: 2018-03-15 02:08:48

Local clock offset: 6.584 ms

Remote clock offset: 76.958 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.24 Mbit/s

95th percentile per-packet one-way delay: 77.988 ms

Loss rate: 6.91%

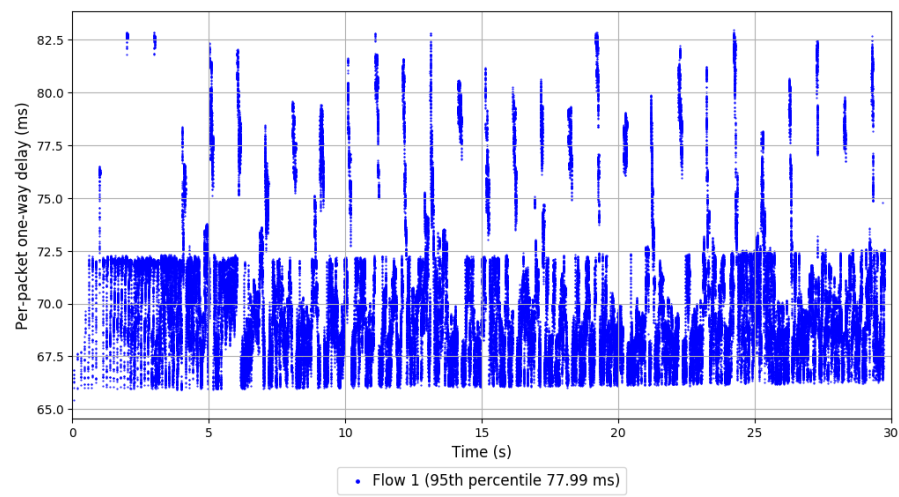
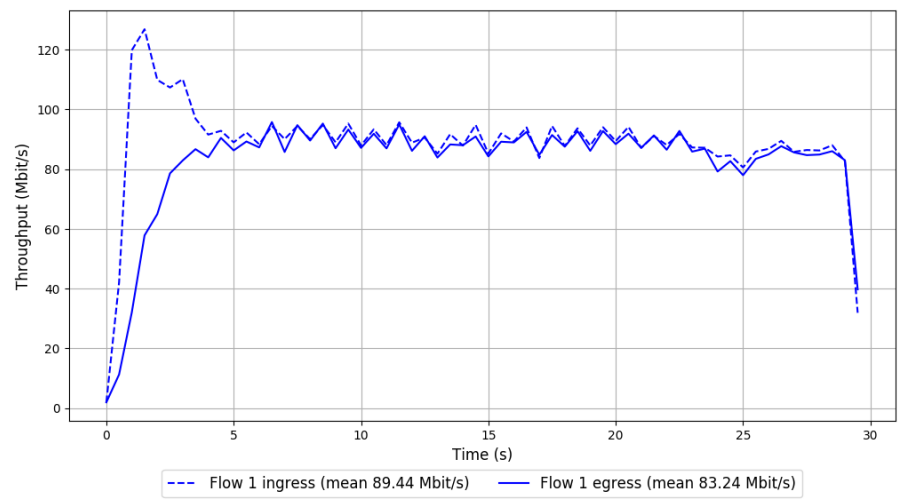
-- Flow 1:

Average throughput: 83.24 Mbit/s

95th percentile per-packet one-way delay: 77.988 ms

Loss rate: 6.91%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-15 02:32:38

End at: 2018-03-15 02:33:08

Local clock offset: 6.742 ms

Remote clock offset: 80.061 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 77.390 ms

Loss rate: 7.79%

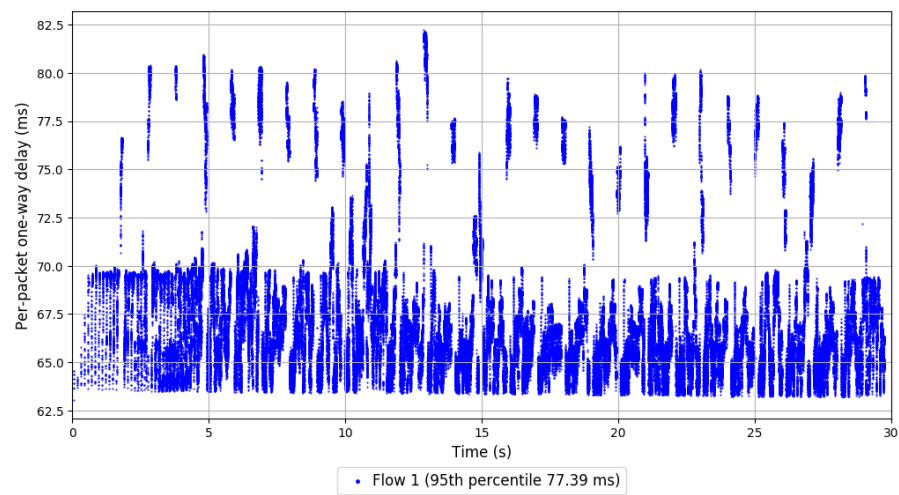
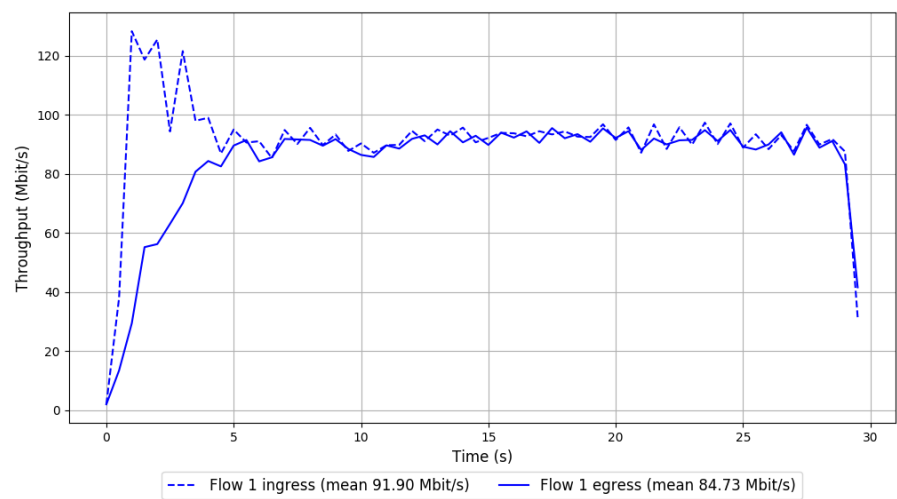
-- Flow 1:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 77.390 ms

Loss rate: 7.79%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-15 02:56:18

End at: 2018-03-15 02:56:48

Local clock offset: 6.122 ms

Remote clock offset: 88.294 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 78.407 ms

Loss rate: 6.74%

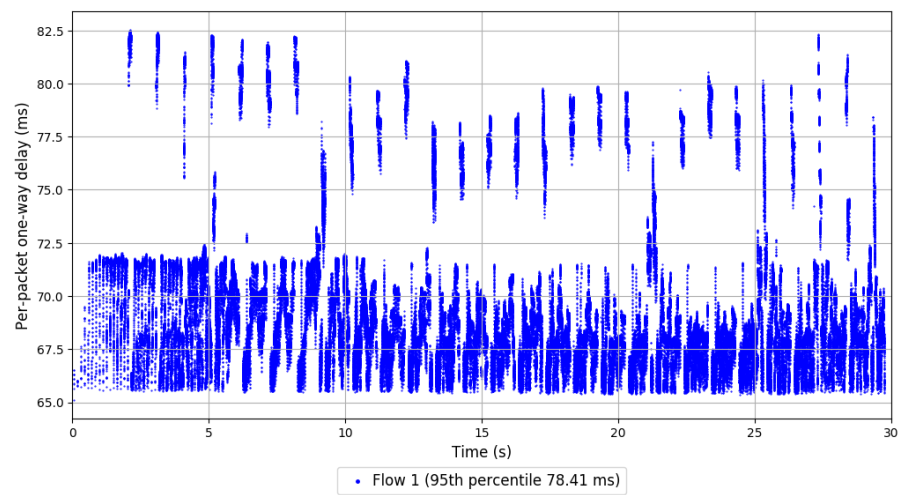
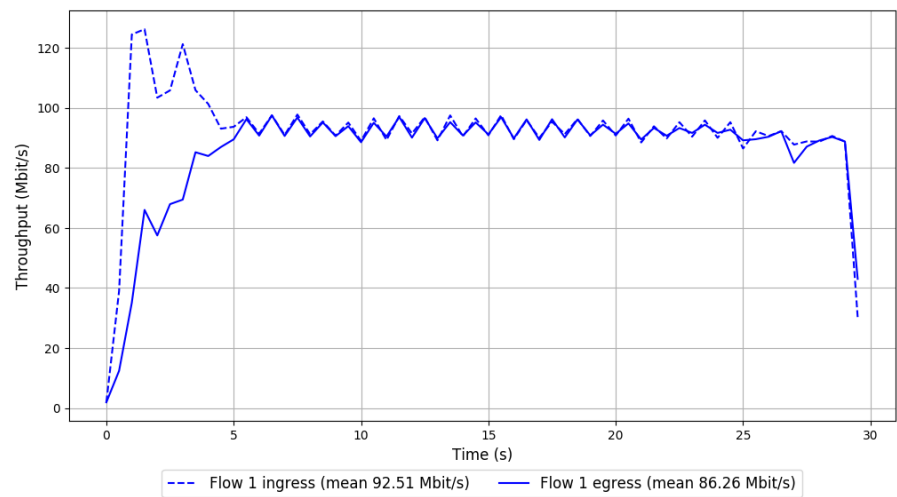
-- Flow 1:

Average throughput: 86.26 Mbit/s

95th percentile per-packet one-way delay: 78.407 ms

Loss rate: 6.74%

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

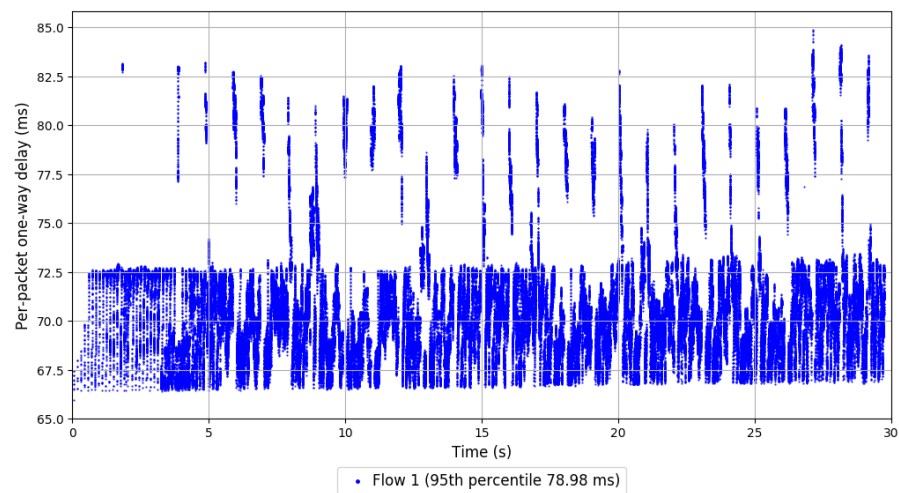
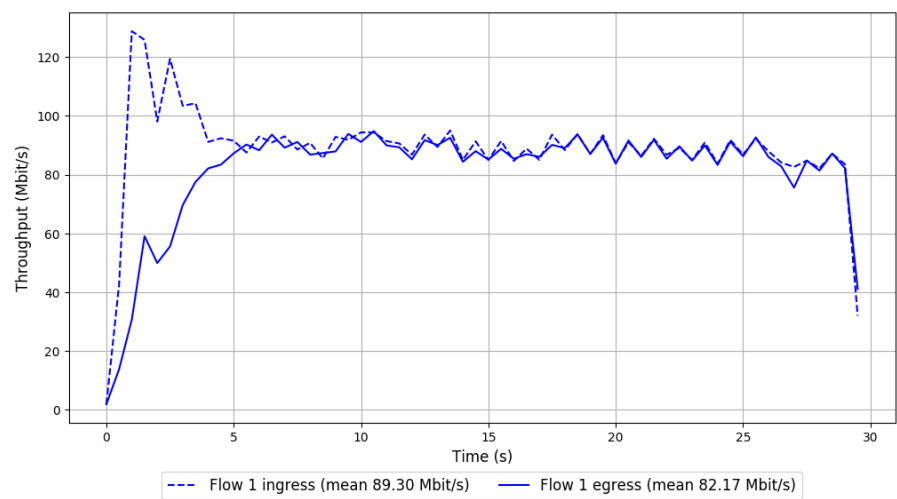


Run 7: Statistics of Indigo-1-32

Start at: 2018-03-15 03:20:29
End at: 2018-03-15 03:20:59
Local clock offset: 6.346 ms
Remote clock offset: 82.144 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.17 Mbit/s
95th percentile per-packet one-way delay: 78.976 ms
Loss rate: 7.96%
-- Flow 1:
Average throughput: 82.17 Mbit/s
95th percentile per-packet one-way delay: 78.976 ms
Loss rate: 7.96%

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

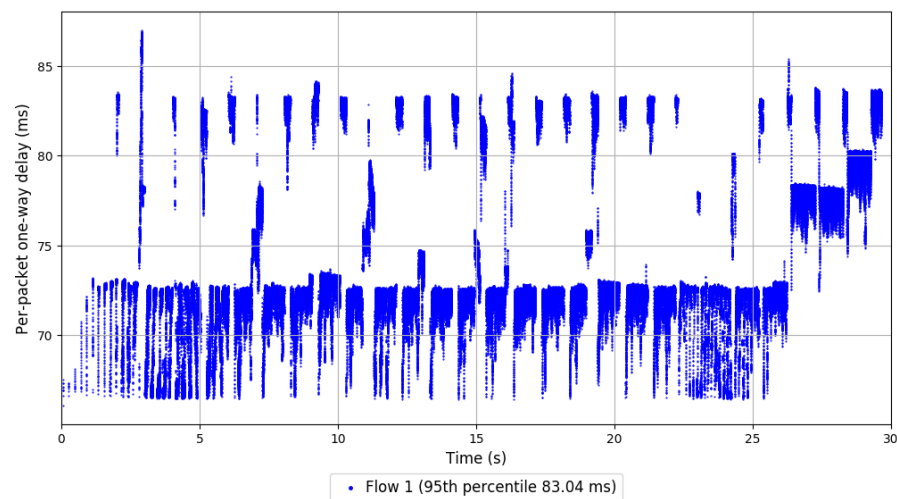
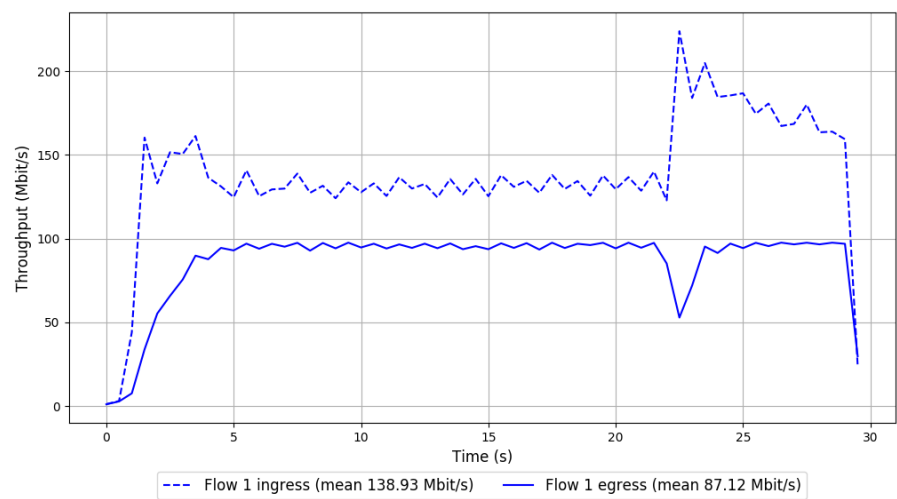


Run 8: Statistics of Indigo-1-32

Start at: 2018-03-15 03:45:49
End at: 2018-03-15 03:46:19
Local clock offset: 2.603 ms
Remote clock offset: 73.622 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 83.044 ms
Loss rate: 37.25%
-- Flow 1:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 83.044 ms
Loss rate: 37.25%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-15 04:10:02

End at: 2018-03-15 04:10:32

Local clock offset: 0.651 ms

Remote clock offset: 60.912 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.16 Mbit/s

95th percentile per-packet one-way delay: 87.374 ms

Loss rate: 11.89%

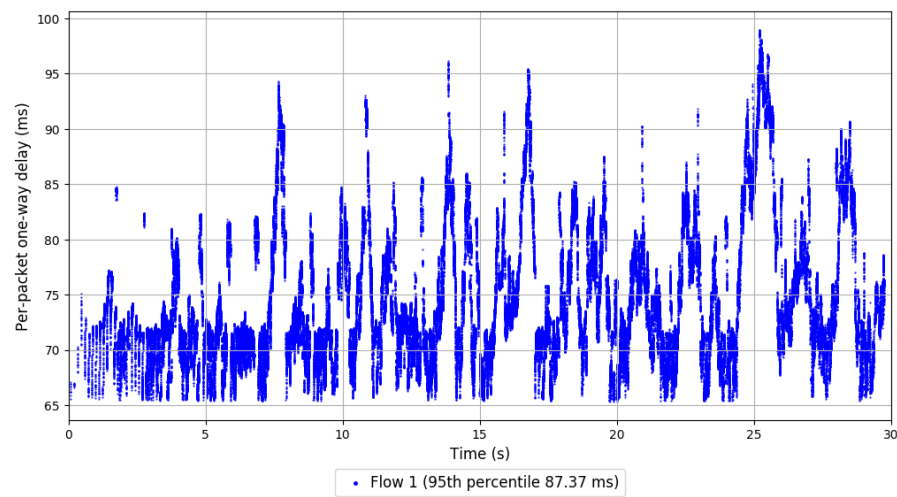
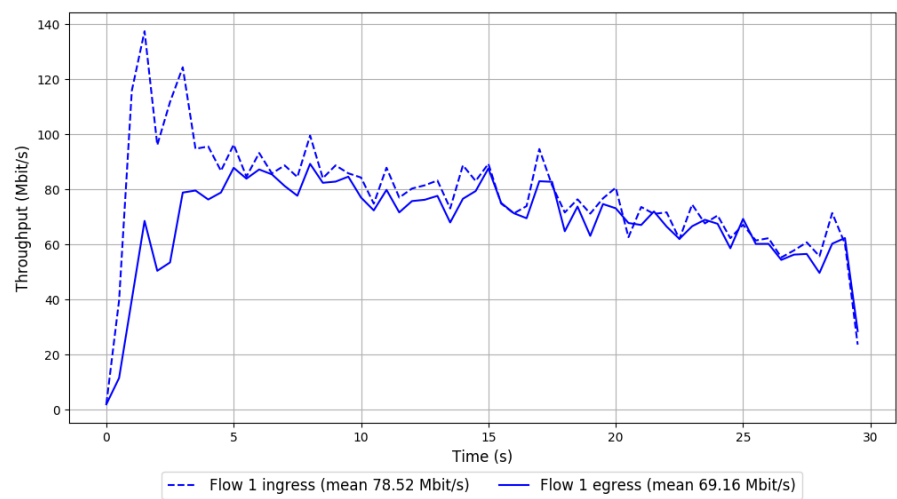
-- Flow 1:

Average throughput: 69.16 Mbit/s

95th percentile per-packet one-way delay: 87.374 ms

Loss rate: 11.89%

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

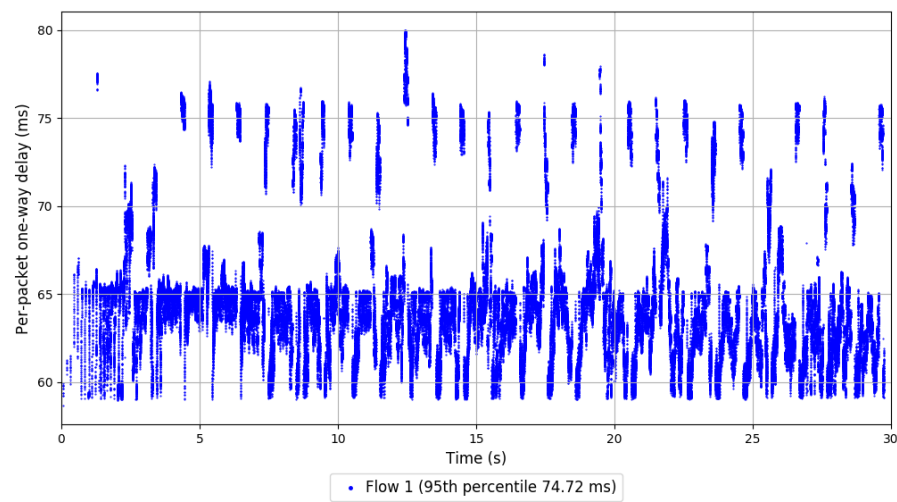
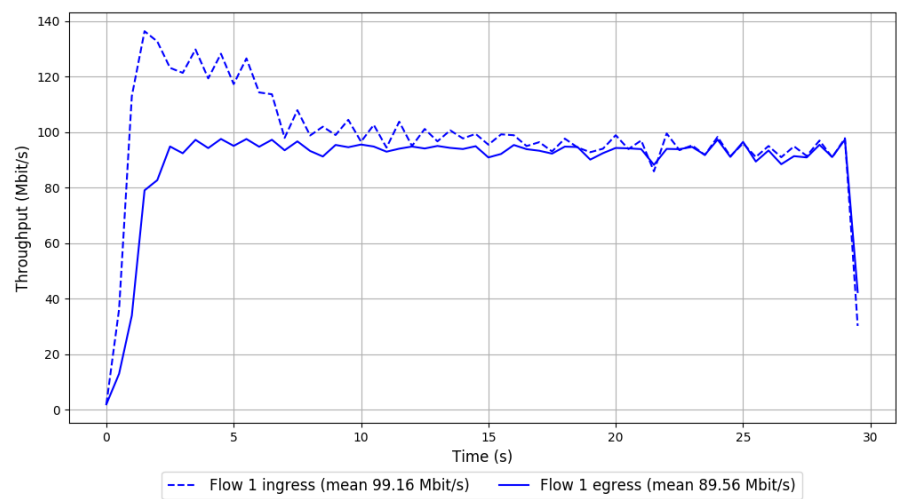


Run 10: Statistics of Indigo-1-32

Start at: 2018-03-15 04:33:05
End at: 2018-03-15 04:33:35
Local clock offset: -3.426 ms
Remote clock offset: 48.408 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.56 Mbit/s
95th percentile per-packet one-way delay: 74.723 ms
Loss rate: 9.68%
-- Flow 1:
Average throughput: 89.56 Mbit/s
95th percentile per-packet one-way delay: 74.723 ms
Loss rate: 9.68%

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

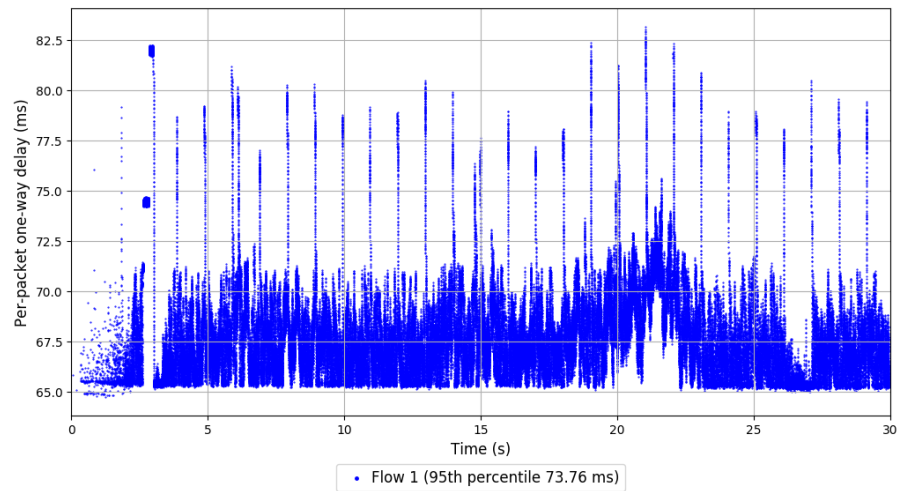
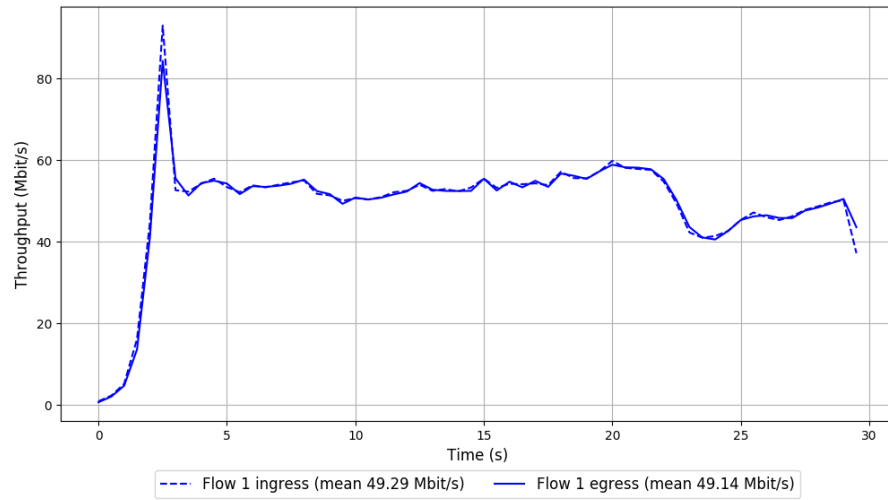


Run 1: Statistics of Vivace-latency

Start at: 2018-03-15 00:59:39
End at: 2018-03-15 01:00:09
Local clock offset: -0.433 ms
Remote clock offset: 14.329 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.14 Mbit/s
95th percentile per-packet one-way delay: 73.760 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 49.14 Mbit/s
95th percentile per-packet one-way delay: 73.760 ms
Loss rate: 0.30%

Run 1: Report of Vivace-latency — Data Link

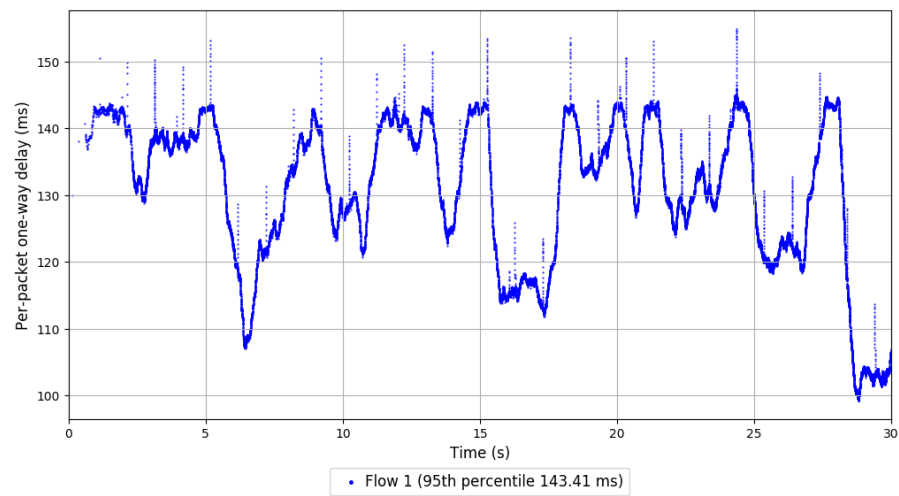
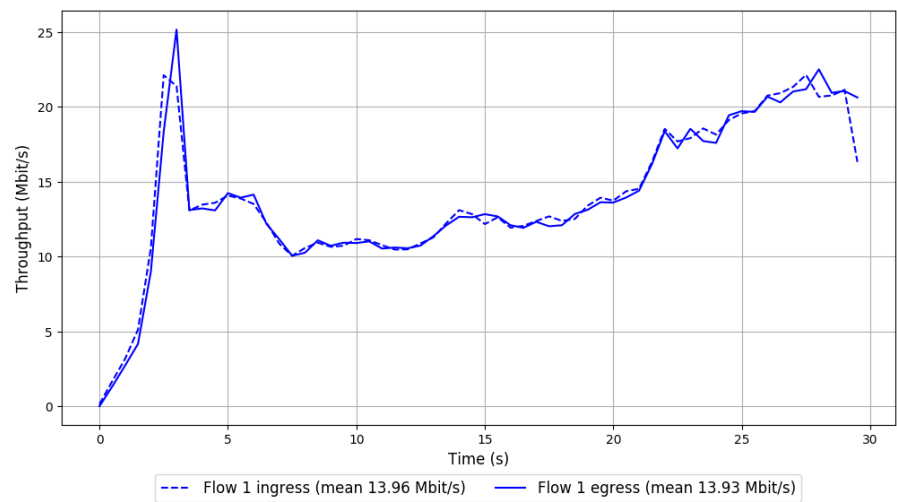


Run 2: Statistics of Vivace-latency

Start at: 2018-03-15 01:23:16
End at: 2018-03-15 01:23:46
Local clock offset: -2.018 ms
Remote clock offset: -10.346 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 143.408 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 13.93 Mbit/s
95th percentile per-packet one-way delay: 143.408 ms
Loss rate: 0.28%

Run 2: Report of Vivace-latency — Data Link

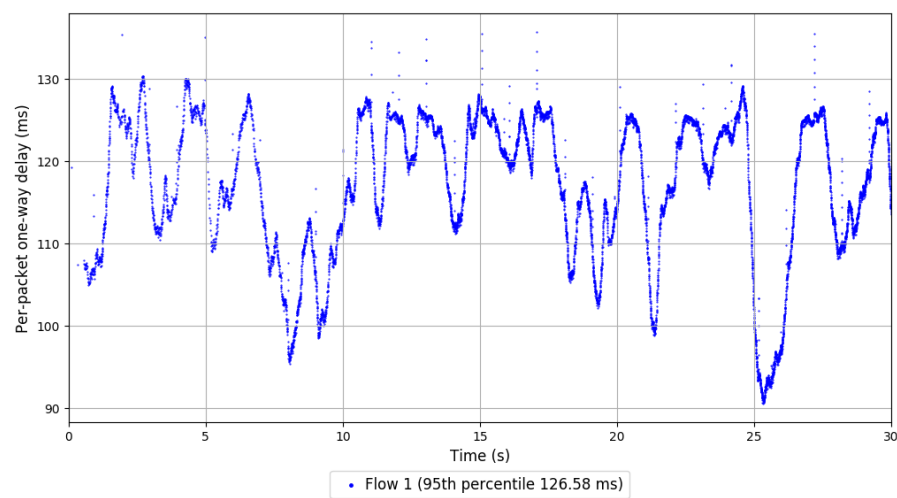
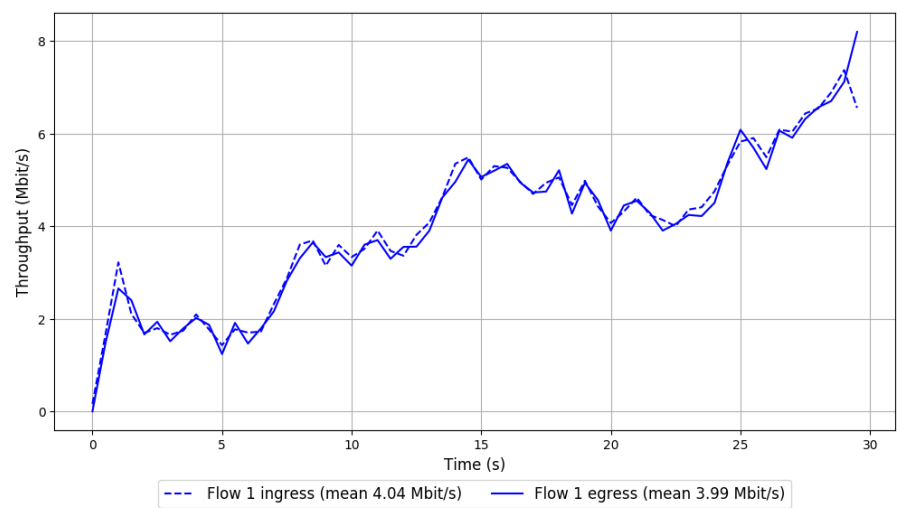


Run 3: Statistics of Vivace-latency

Start at: 2018-03-15 01:47:06
End at: 2018-03-15 01:47:36
Local clock offset: -3.272 ms
Remote clock offset: 16.906 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 126.578 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 3.99 Mbit/s
95th percentile per-packet one-way delay: 126.578 ms
Loss rate: 1.06%

Run 3: Report of Vivace-latency — Data Link

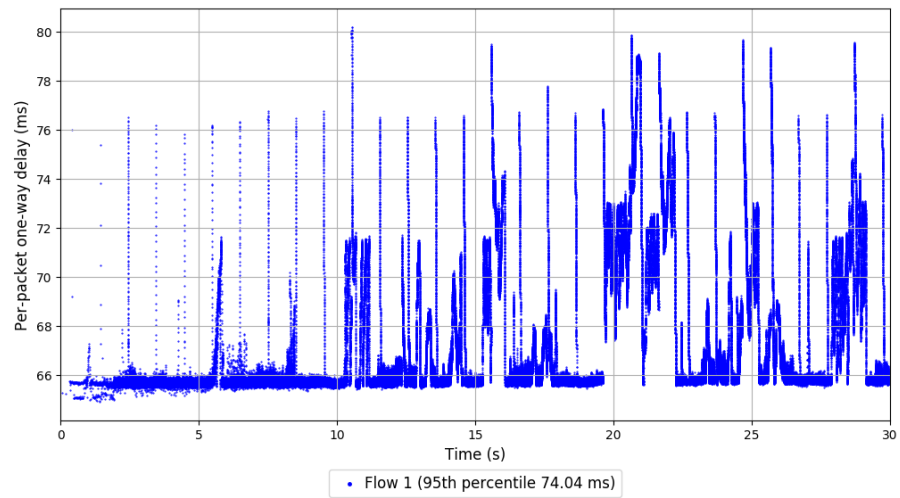
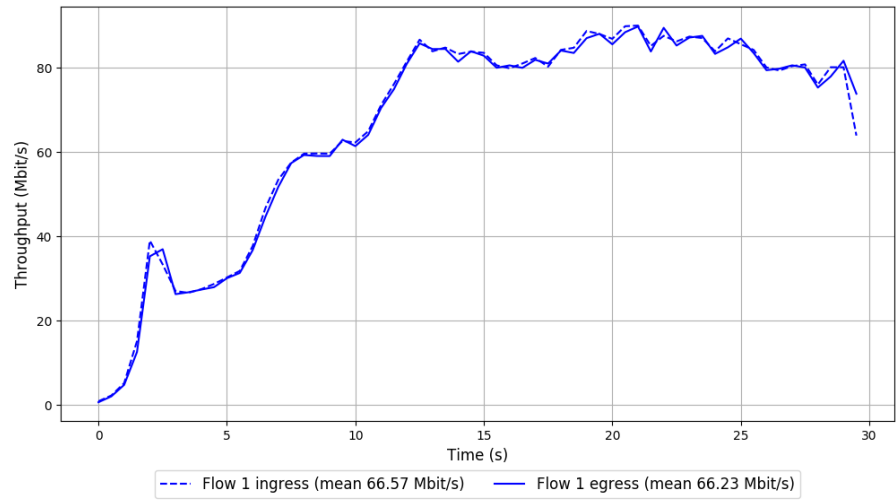


Run 4: Statistics of Vivace-latency

Start at: 2018-03-15 02:10:44
End at: 2018-03-15 02:11:14
Local clock offset: 7.34 ms
Remote clock offset: 76.318 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.23 Mbit/s
95th percentile per-packet one-way delay: 74.043 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 66.23 Mbit/s
95th percentile per-packet one-way delay: 74.043 ms
Loss rate: 0.50%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-15 02:35:04

End at: 2018-03-15 02:35:34

Local clock offset: 6.662 ms

Remote clock offset: 82.69 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.52 Mbit/s

95th percentile per-packet one-way delay: 73.096 ms

Loss rate: 0.44%

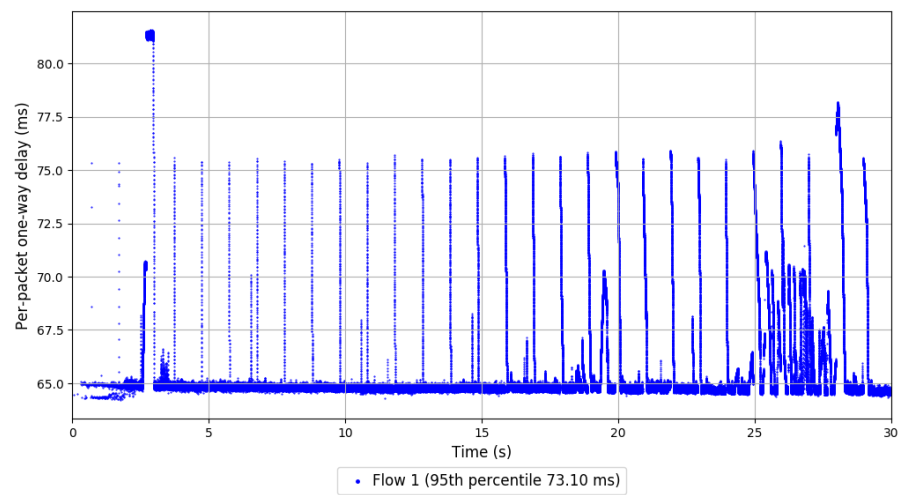
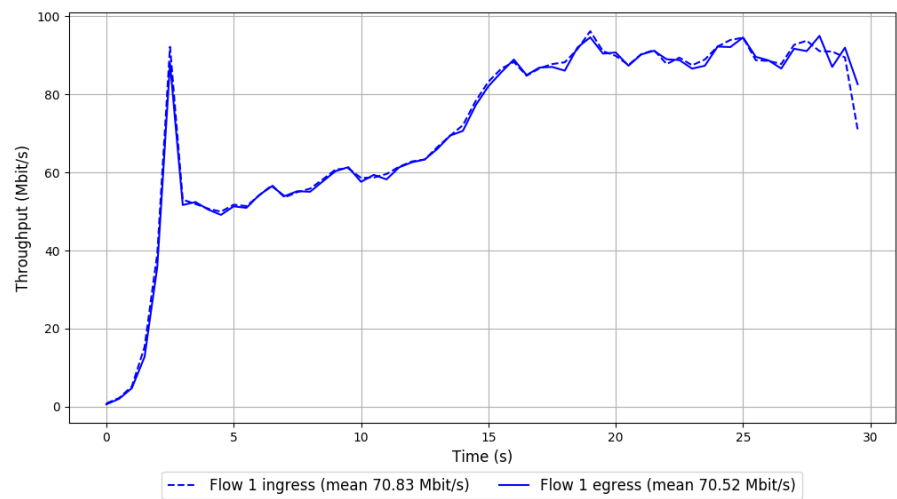
-- Flow 1:

Average throughput: 70.52 Mbit/s

95th percentile per-packet one-way delay: 73.096 ms

Loss rate: 0.44%

Run 5: Report of Vivace-latency — Data Link

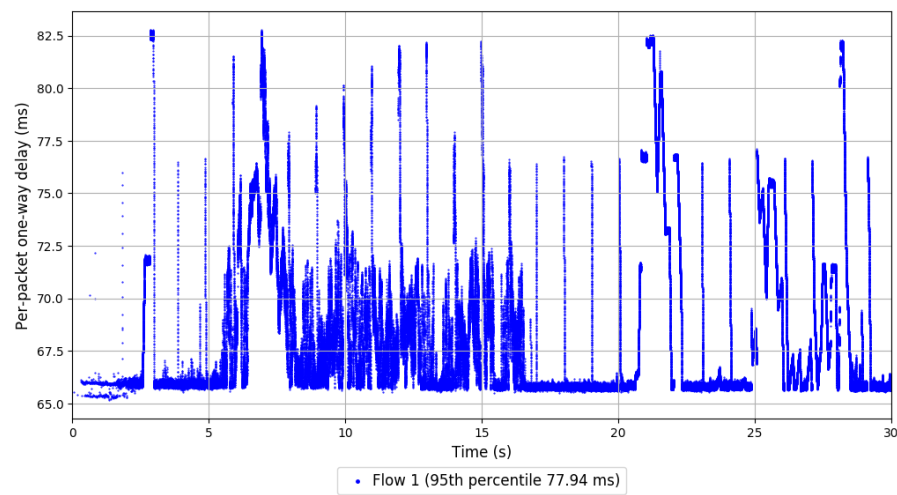
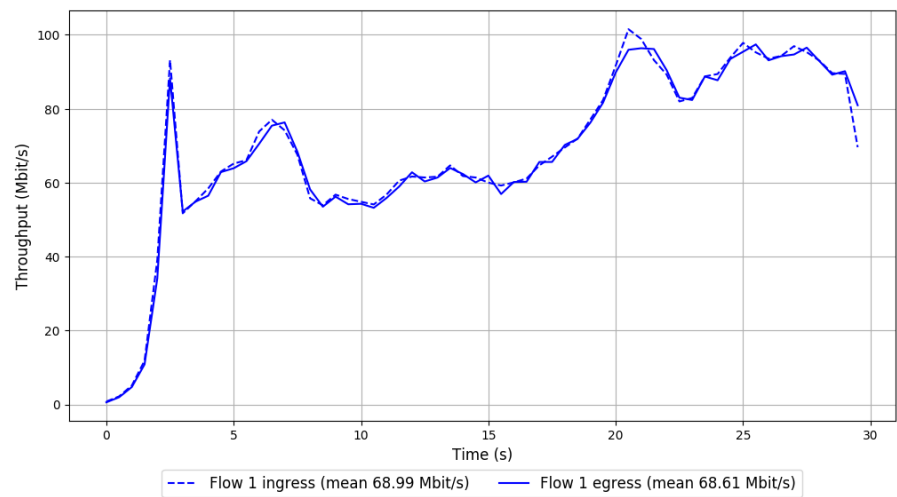


Run 6: Statistics of Vivace-latency

Start at: 2018-03-15 02:58:44
End at: 2018-03-15 02:59:14
Local clock offset: 6.248 ms
Remote clock offset: 89.308 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 77.940 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 68.61 Mbit/s
95th percentile per-packet one-way delay: 77.940 ms
Loss rate: 0.55%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

/home/ubuntu/pantheon_data/2018-03-15T00-41-AWS-Korea-to-China-10-runs/vivace_latency_stats.

Run 7: Report of Vivace-latency — Data Link

Figure is missing

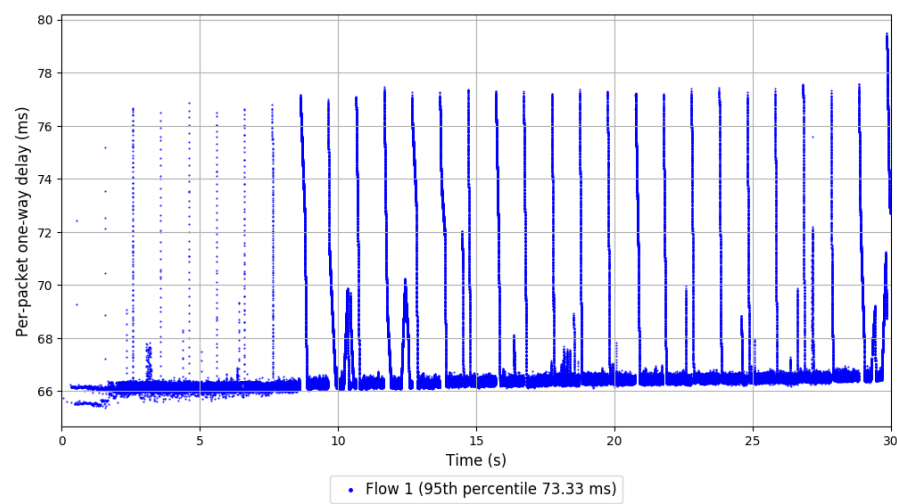
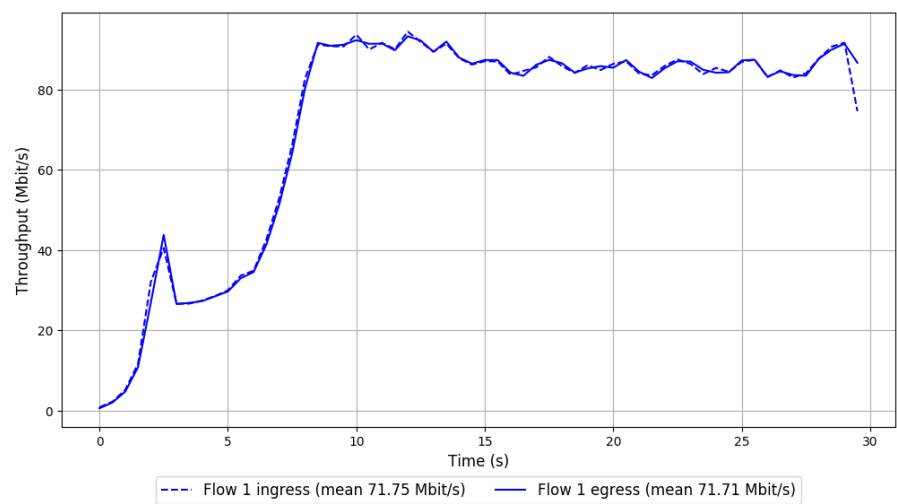
Figure is missing

Run 8: Statistics of Vivace-latency

Start at: 2018-03-15 03:48:20
End at: 2018-03-15 03:48:50
Local clock offset: 2.877 ms
Remote clock offset: 71.545 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.71 Mbit/s
95th percentile per-packet one-way delay: 73.326 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 71.71 Mbit/s
95th percentile per-packet one-way delay: 73.326 ms
Loss rate: 0.03%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-15 04:12:32

End at: 2018-03-15 04:13:02

Local clock offset: -0.029 ms

Remote clock offset: 60.43 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 79.128 ms

Loss rate: 0.50%

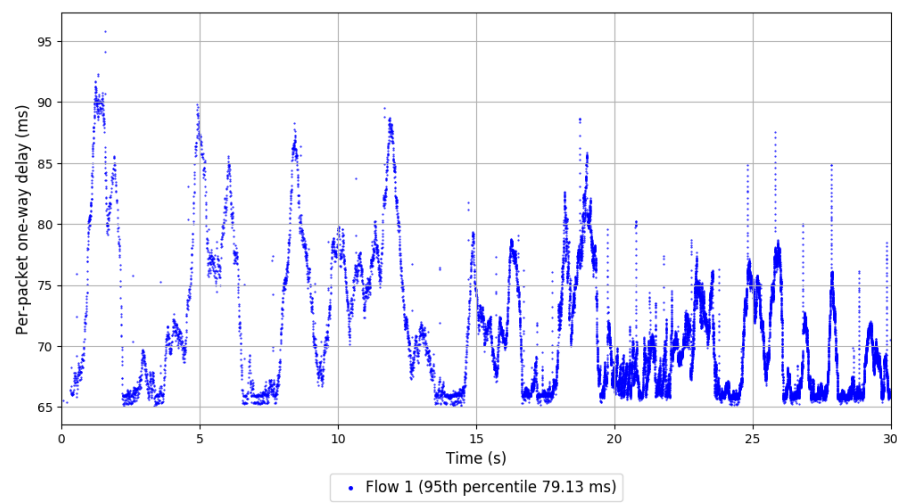
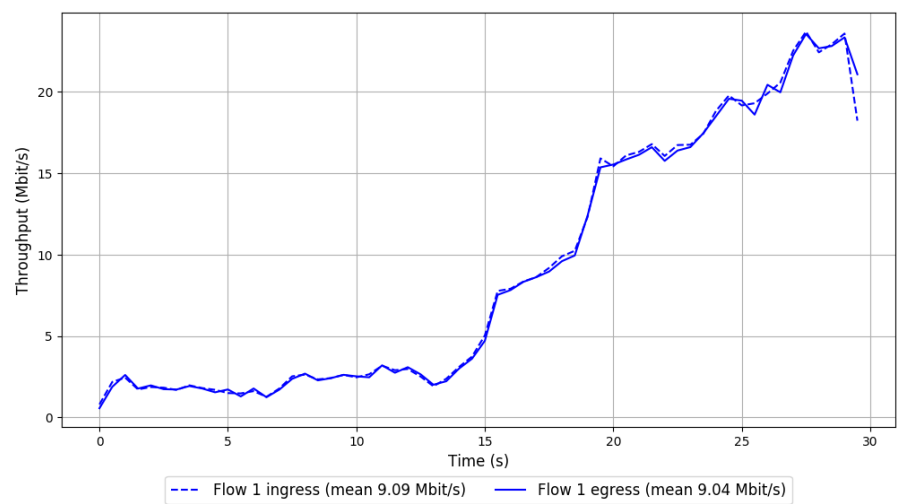
-- Flow 1:

Average throughput: 9.04 Mbit/s

95th percentile per-packet one-way delay: 79.128 ms

Loss rate: 0.50%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-15 04:35:32

End at: 2018-03-15 04:36:02

Local clock offset: -3.581 ms

Remote clock offset: 41.78 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.89 Mbit/s

95th percentile per-packet one-way delay: 72.710 ms

Loss rate: 0.98%

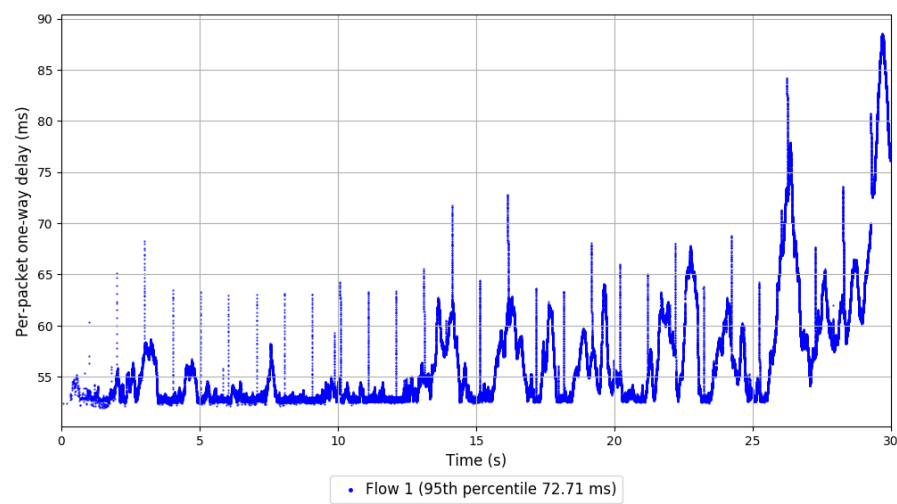
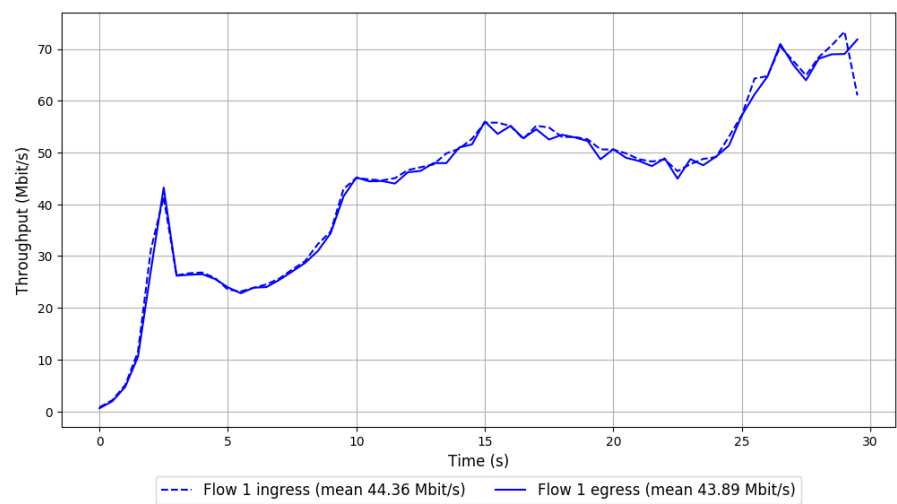
-- Flow 1:

Average throughput: 43.89 Mbit/s

95th percentile per-packet one-way delay: 72.710 ms

Loss rate: 0.98%

Run 10: Report of Vivace-latency — Data Link

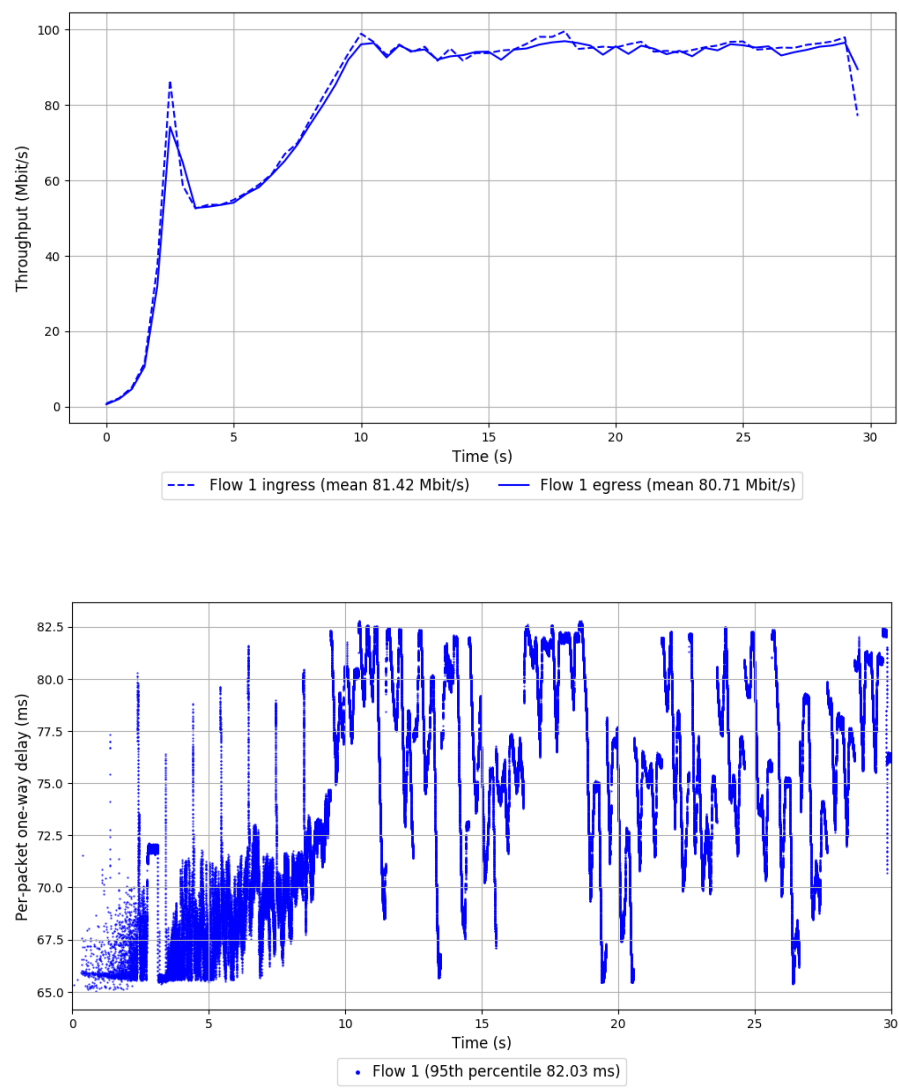


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-15 00:52:16
End at: 2018-03-15 00:52:46
Local clock offset: 1.253 ms
Remote clock offset: 13.197 ms

# Below is generated by plot.py at 2018-03-15 05:23:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.71 Mbit/s
95th percentile per-packet one-way delay: 82.025 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 80.71 Mbit/s
95th percentile per-packet one-way delay: 82.025 ms
Loss rate: 0.84%
```

Run 1: Report of Vivace-loss — Data Link

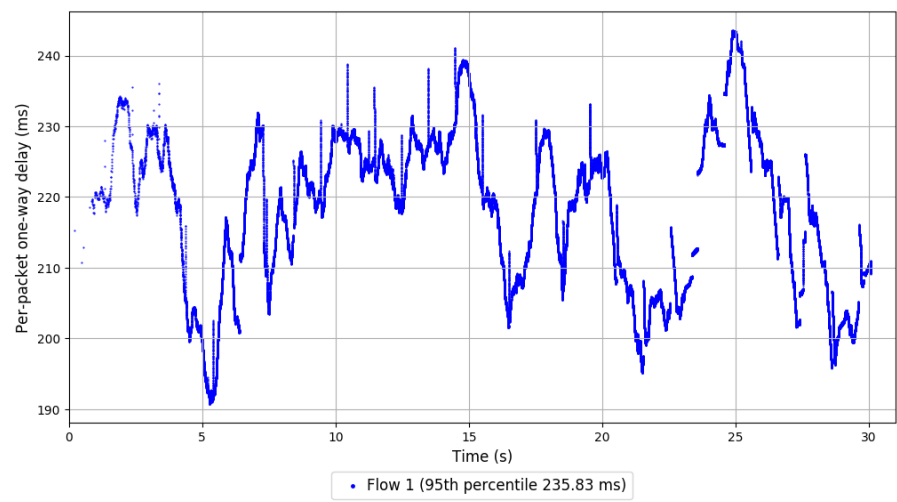
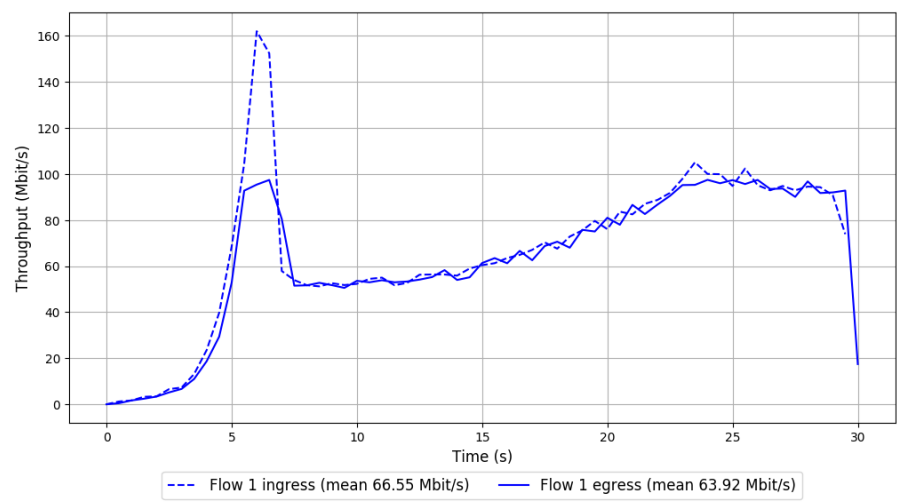


Run 2: Statistics of Vivace-loss

Start at: 2018-03-15 01:15:32
End at: 2018-03-15 01:16:02
Local clock offset: -2.913 ms
Remote clock offset: -19.526 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 235.827 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 63.92 Mbit/s
95th percentile per-packet one-way delay: 235.827 ms
Loss rate: 3.97%

Run 2: Report of Vivace-loss — Data Link

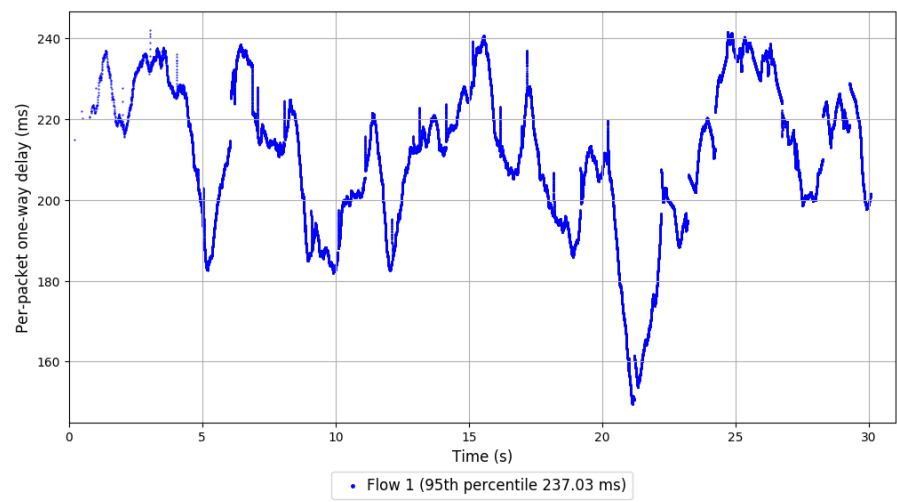
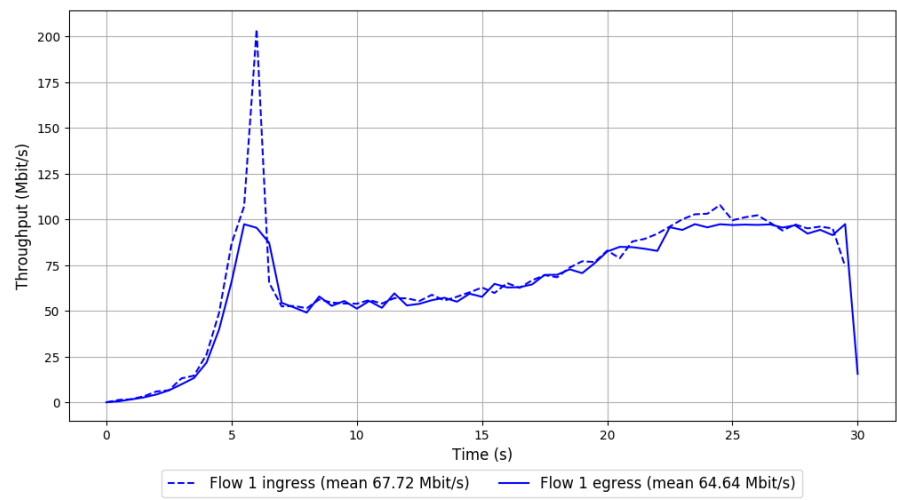


Run 3: Statistics of Vivace-loss

Start at: 2018-03-15 01:39:21
End at: 2018-03-15 01:39:51
Local clock offset: -2.628 ms
Remote clock offset: 31.287 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 237.033 ms
Loss rate: 4.59%
-- Flow 1:
Average throughput: 64.64 Mbit/s
95th percentile per-packet one-way delay: 237.033 ms
Loss rate: 4.59%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-15 02:03:22

End at: 2018-03-15 02:03:52

Local clock offset: 5.336 ms

Remote clock offset: 78.422 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 81.188 ms

Loss rate: 1.75%

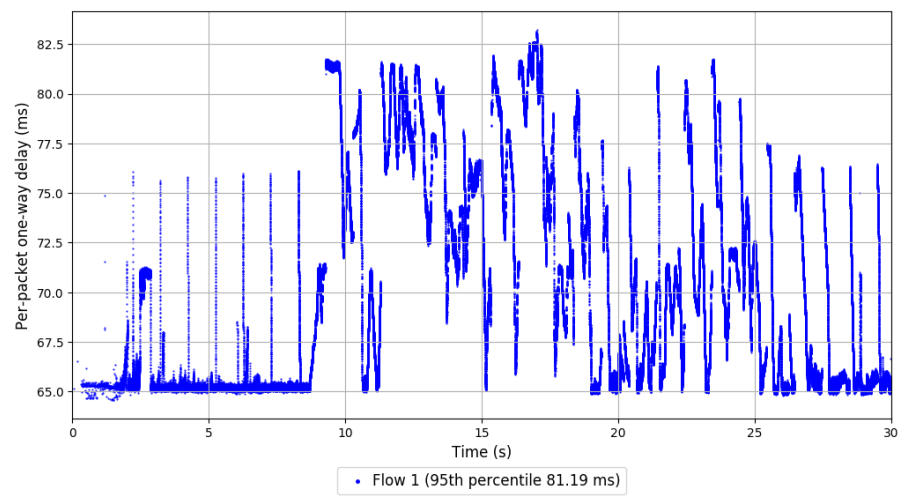
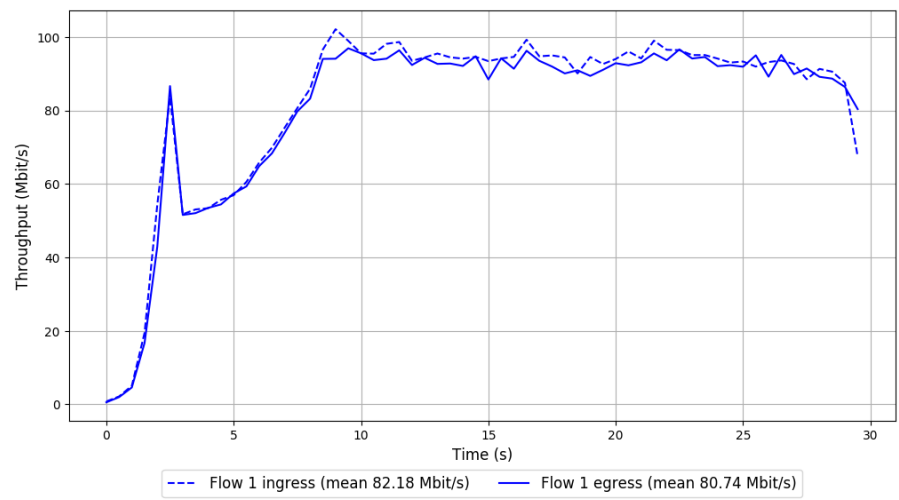
-- Flow 1:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 81.188 ms

Loss rate: 1.75%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

/home/ubuntu/pantheon_data/2018-03-15T00-41-AWS-Korea-to-China-10-runs/vivace_loss_stats_run

Run 5: Report of Vivace-loss — Data Link

Figure is missing

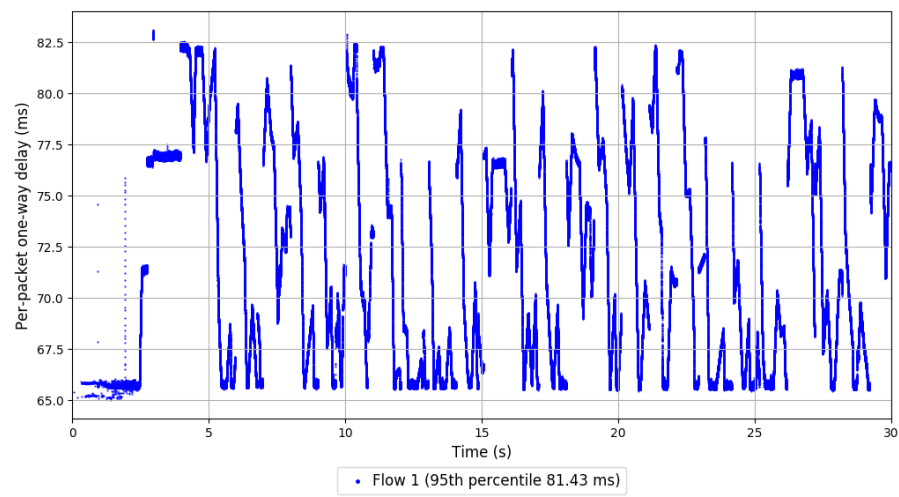
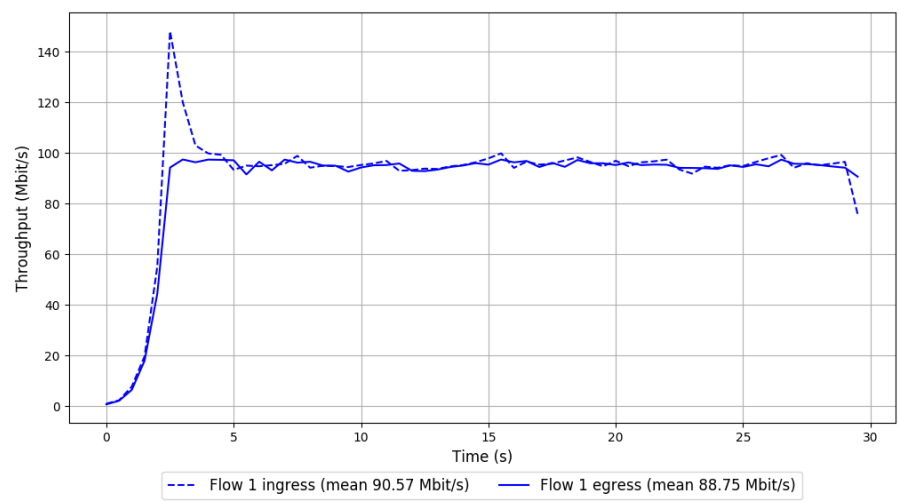
Figure is missing

Run 6: Statistics of Vivace-loss

Start at: 2018-03-15 02:51:17
End at: 2018-03-15 02:51:47
Local clock offset: 6.063 ms
Remote clock offset: 86.568 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 81.431 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 81.431 ms
Loss rate: 1.98%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-15 03:15:34

End at: 2018-03-15 03:16:04

Local clock offset: 6.421 ms

Remote clock offset: 88.666 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 80.398 ms

Loss rate: 1.67%

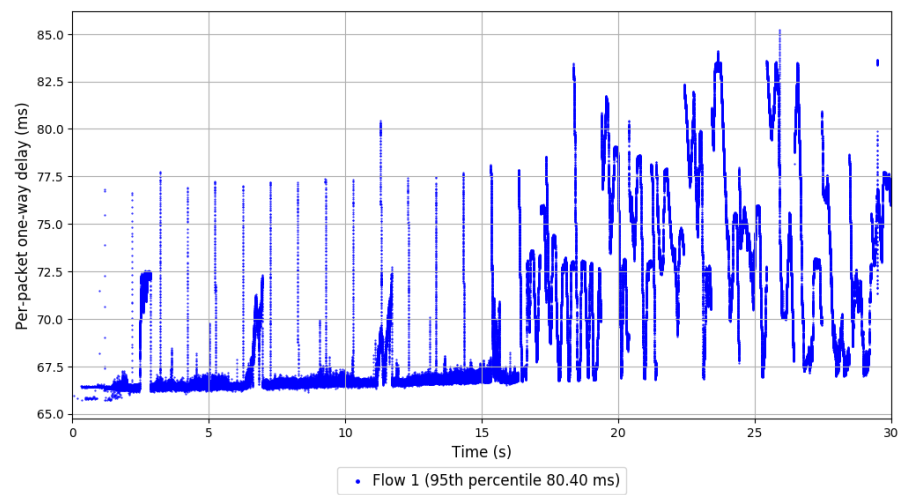
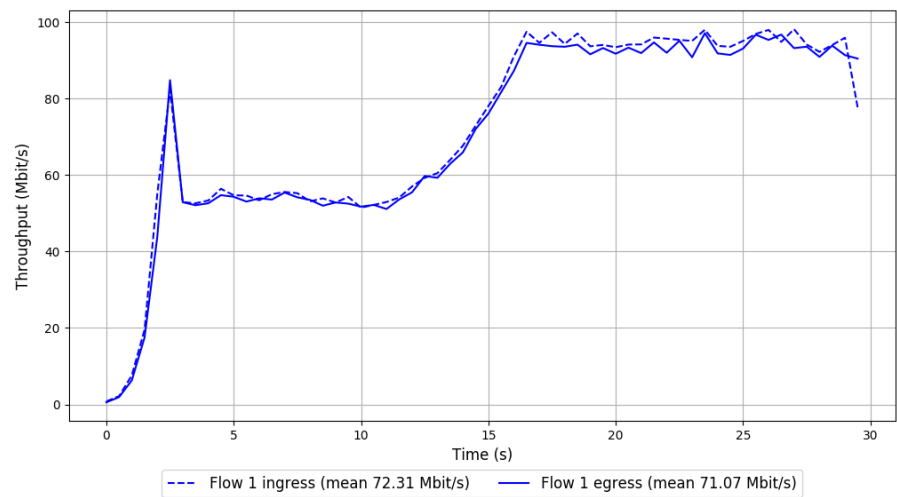
-- Flow 1:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 80.398 ms

Loss rate: 1.67%

Run 7: Report of Vivace-loss — Data Link

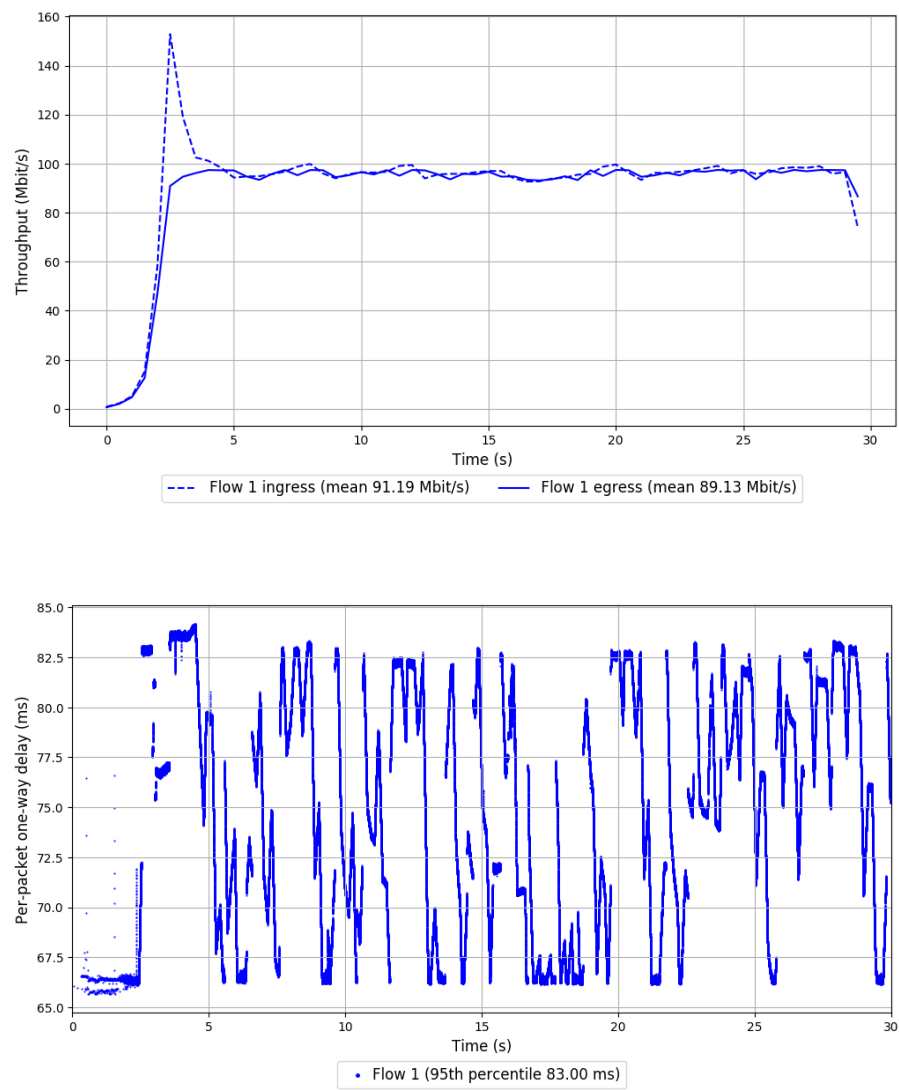


Run 8: Statistics of Vivace-loss

Start at: 2018-03-15 03:39:47
End at: 2018-03-15 03:40:17
Local clock offset: 3.694 ms
Remote clock offset: 74.165 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.13 Mbit/s
95th percentile per-packet one-way delay: 83.003 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 89.13 Mbit/s
95th percentile per-packet one-way delay: 83.003 ms
Loss rate: 2.23%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-15 04:05:04

End at: 2018-03-15 04:05:34

Local clock offset: 1.851 ms

Remote clock offset: 62.378 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.07 Mbit/s

95th percentile per-packet one-way delay: 117.835 ms

Loss rate: 2.93%

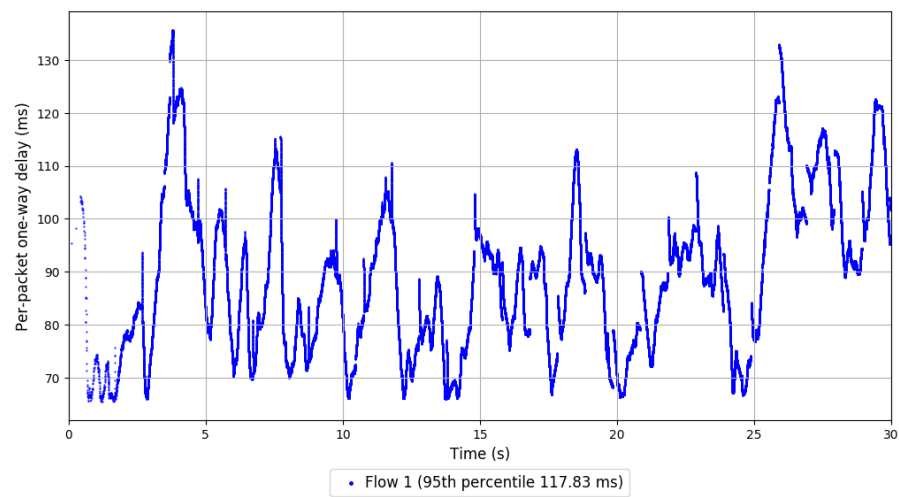
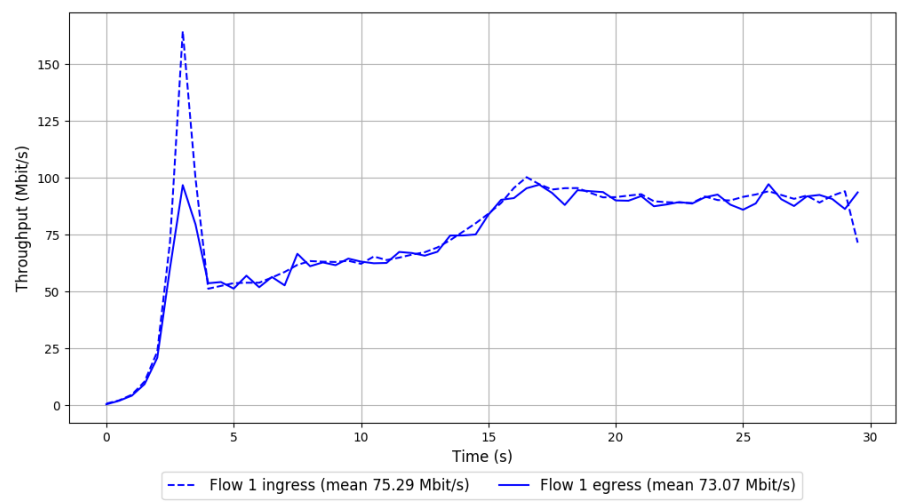
-- Flow 1:

Average throughput: 73.07 Mbit/s

95th percentile per-packet one-way delay: 117.835 ms

Loss rate: 2.93%

Run 9: Report of Vivace-loss — Data Link

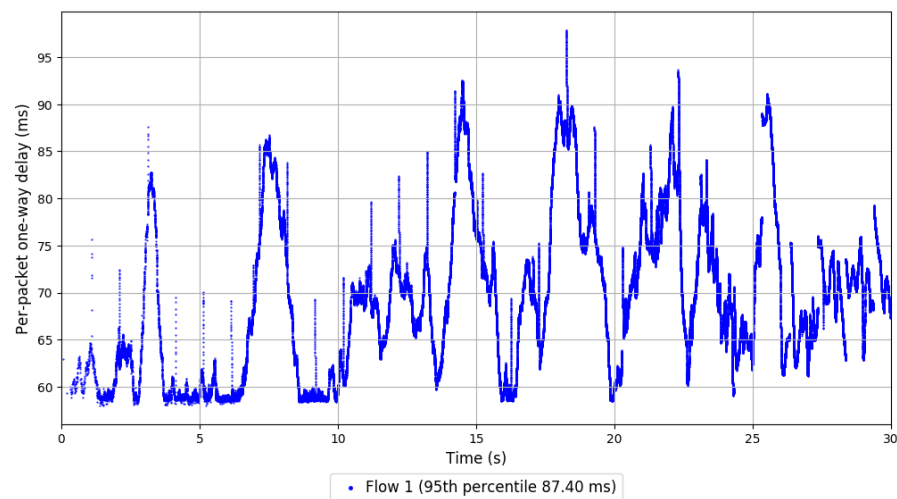
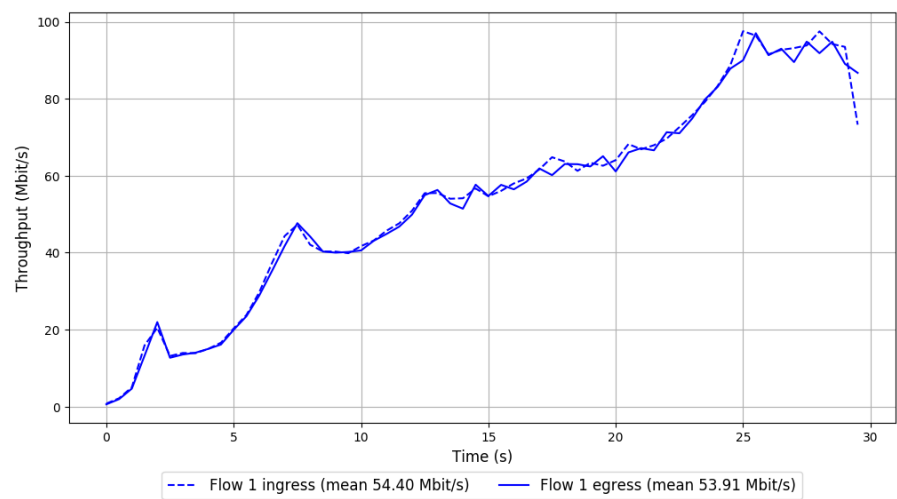


Run 10: Statistics of Vivace-loss

Start at: 2018-03-15 04:28:11
End at: 2018-03-15 04:28:41
Local clock offset: -2.868 ms
Remote clock offset: 49.439 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.91 Mbit/s
95th percentile per-packet one-way delay: 87.401 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 53.91 Mbit/s
95th percentile per-packet one-way delay: 87.401 ms
Loss rate: 0.89%

Run 10: Report of Vivace-loss — Data Link

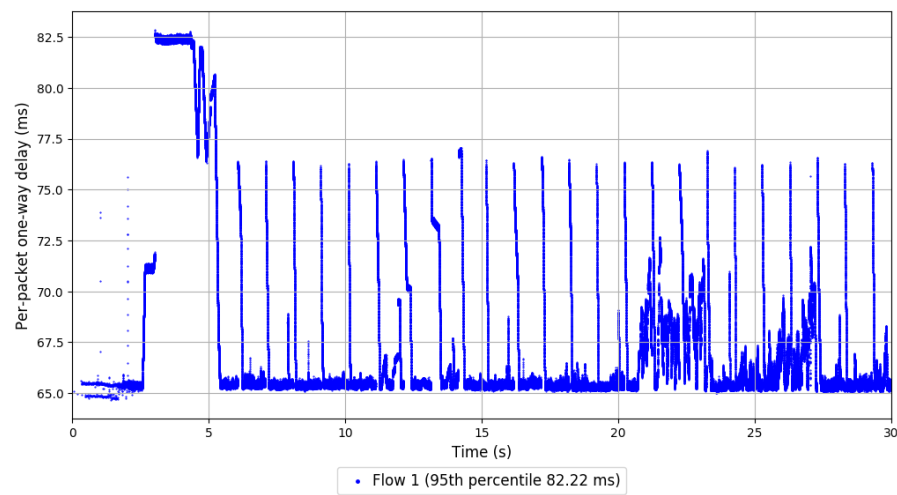
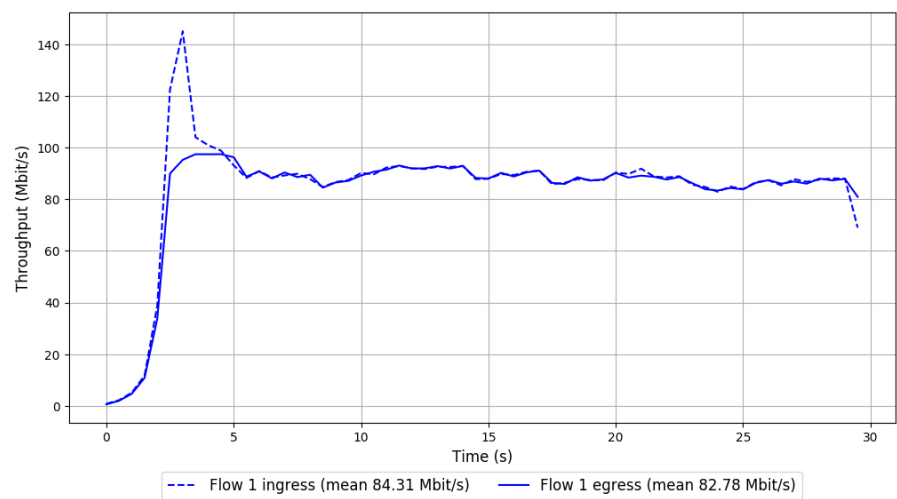


Run 1: Statistics of Vivace-LTE

Start at: 2018-03-15 01:03:12
End at: 2018-03-15 01:03:42
Local clock offset: -0.91 ms
Remote clock offset: 14.878 ms

Below is generated by plot.py at 2018-03-15 05:23:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.78 Mbit/s
95th percentile per-packet one-way delay: 82.224 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 82.78 Mbit/s
95th percentile per-packet one-way delay: 82.224 ms
Loss rate: 1.82%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-15 01:26:59

End at: 2018-03-15 01:27:29

Local clock offset: -2.01 ms

Remote clock offset: 1.144 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.63 Mbit/s

95th percentile per-packet one-way delay: 177.637 ms

Loss rate: 0.41%

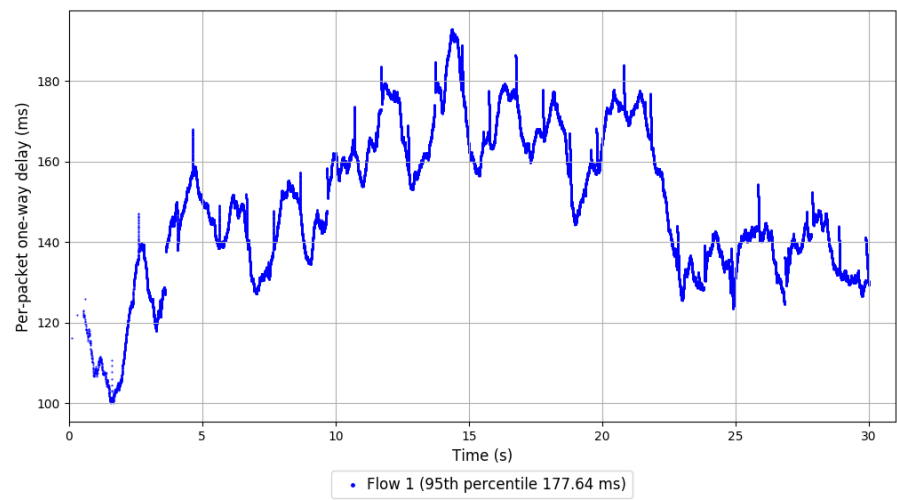
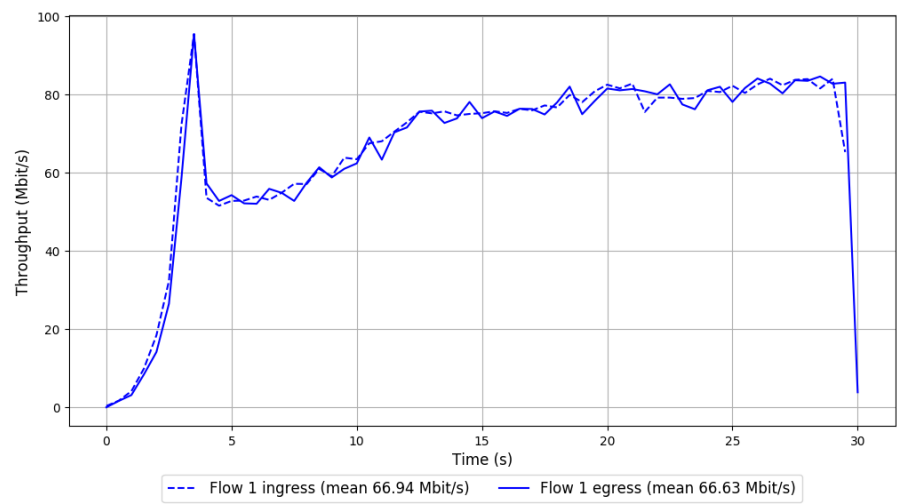
-- Flow 1:

Average throughput: 66.63 Mbit/s

95th percentile per-packet one-way delay: 177.637 ms

Loss rate: 0.41%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-15 01:50:48

End at: 2018-03-15 01:51:18

Local clock offset: -2.422 ms

Remote clock offset: 20.79 ms

Below is generated by plot.py at 2018-03-15 05:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 137.734 ms

Loss rate: 3.36%

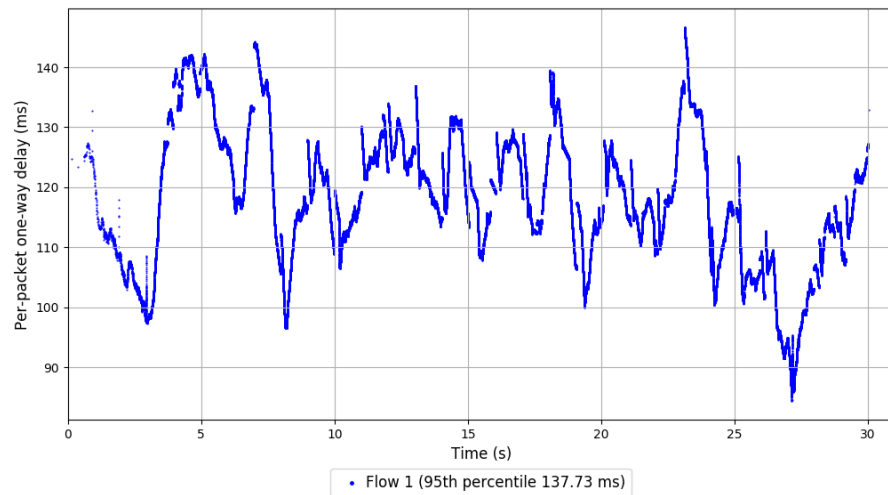
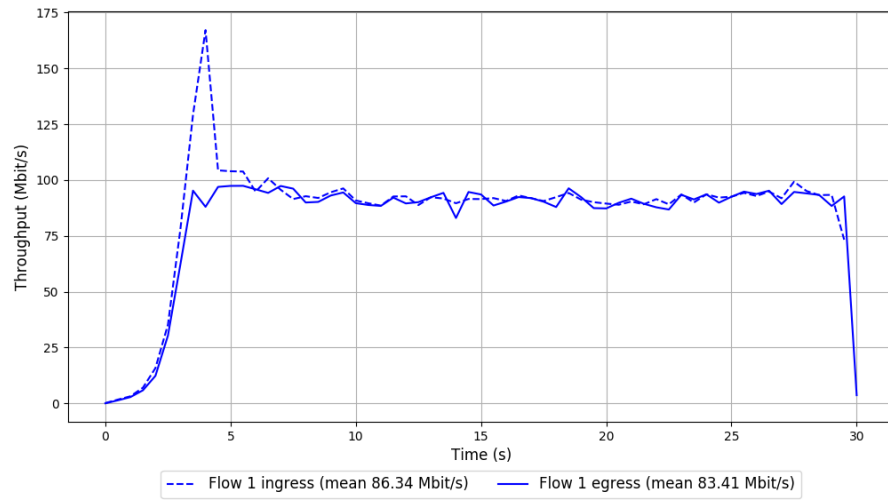
-- Flow 1:

Average throughput: 83.41 Mbit/s

95th percentile per-packet one-way delay: 137.734 ms

Loss rate: 3.36%

Run 3: Report of Vivace-LTE — Data Link

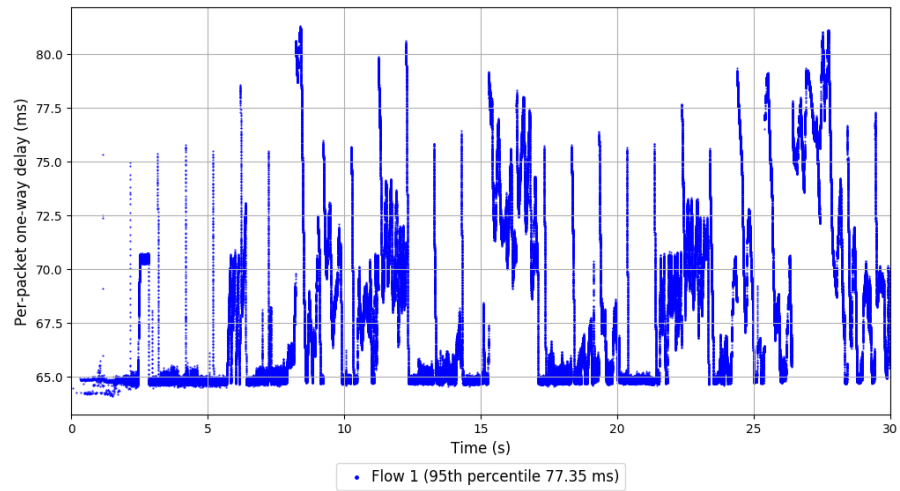
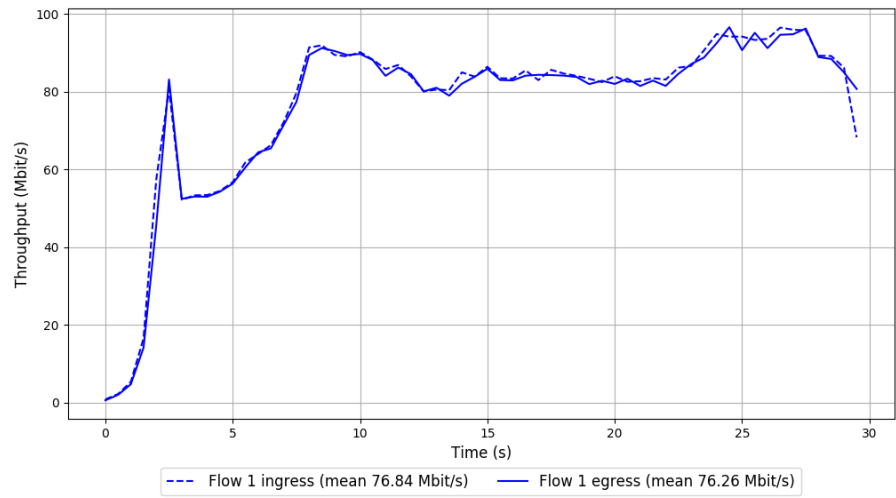


Run 4: Statistics of Vivace-LTE

Start at: 2018-03-15 02:14:19
End at: 2018-03-15 02:14:49
Local clock offset: 8.032 ms
Remote clock offset: 75.304 ms

Below is generated by plot.py at 2018-03-15 05:23:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.26 Mbit/s
95th percentile per-packet one-way delay: 77.349 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 76.26 Mbit/s
95th percentile per-packet one-way delay: 77.349 ms
Loss rate: 0.76%

Run 4: Report of Vivace-LTE — Data Link

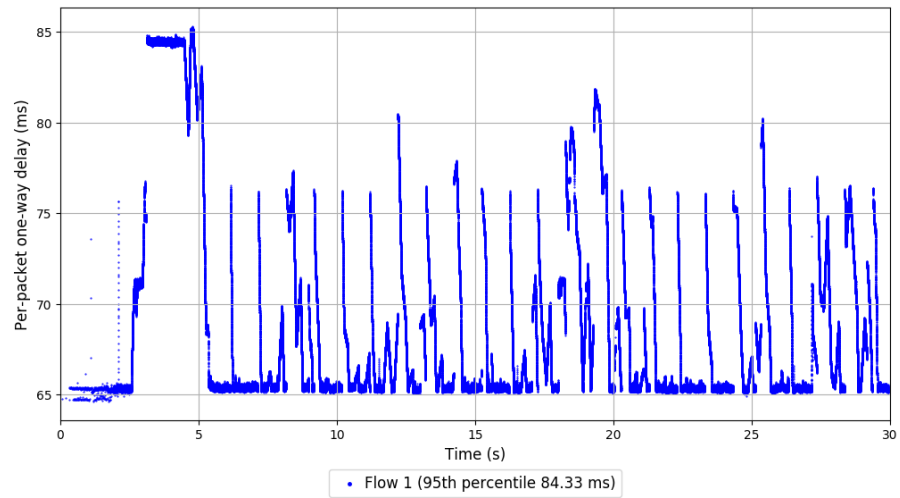
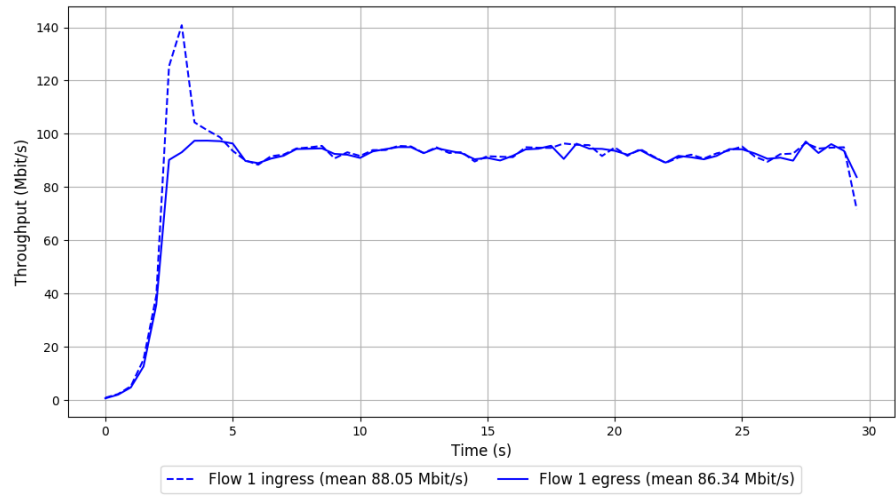


Run 5: Statistics of Vivace-LTE

Start at: 2018-03-15 02:38:44
End at: 2018-03-15 02:39:14
Local clock offset: 5.762 ms
Remote clock offset: 83.895 ms

Below is generated by plot.py at 2018-03-15 05:23:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 84.327 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 86.34 Mbit/s
95th percentile per-packet one-way delay: 84.327 ms
Loss rate: 1.94%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-15 03:02:20

End at: 2018-03-15 03:02:50

Local clock offset: 6.277 ms

Remote clock offset: 90.679 ms

Below is generated by plot.py at 2018-03-15 05:23:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 75.415 ms

Loss rate: 0.27%

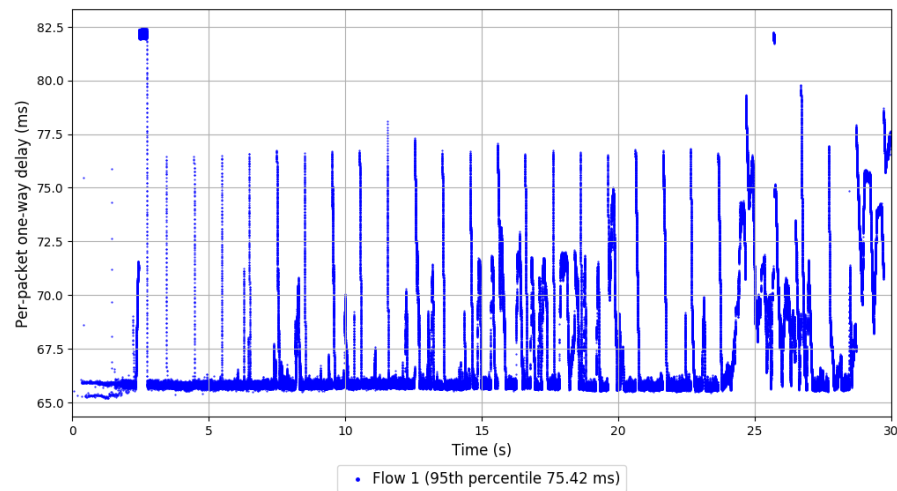
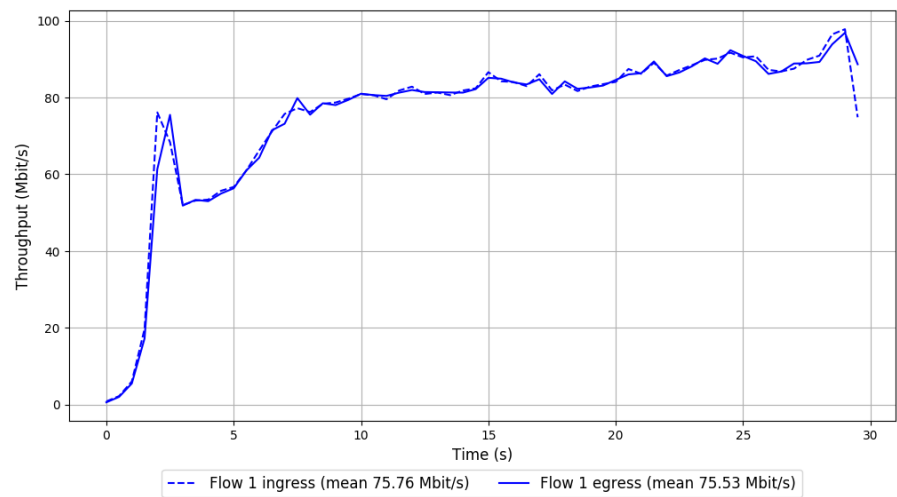
-- Flow 1:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 75.415 ms

Loss rate: 0.27%

Run 6: Report of Vivace-LTE — Data Link

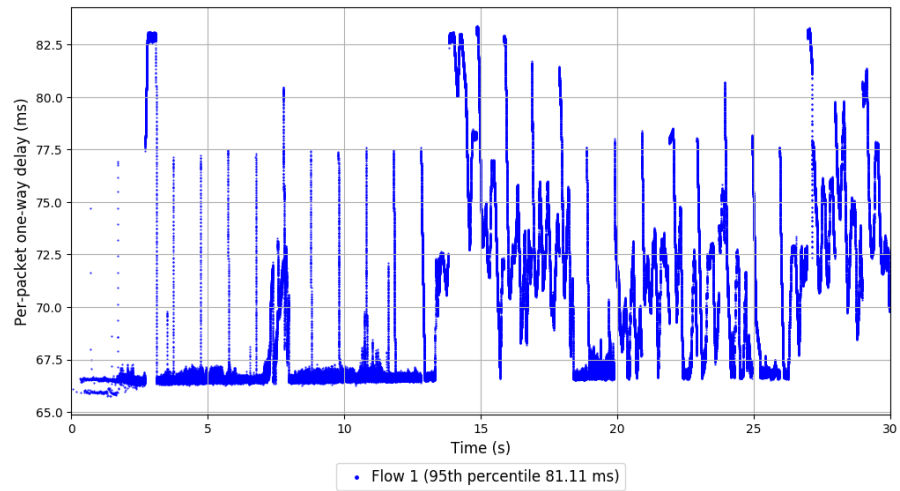
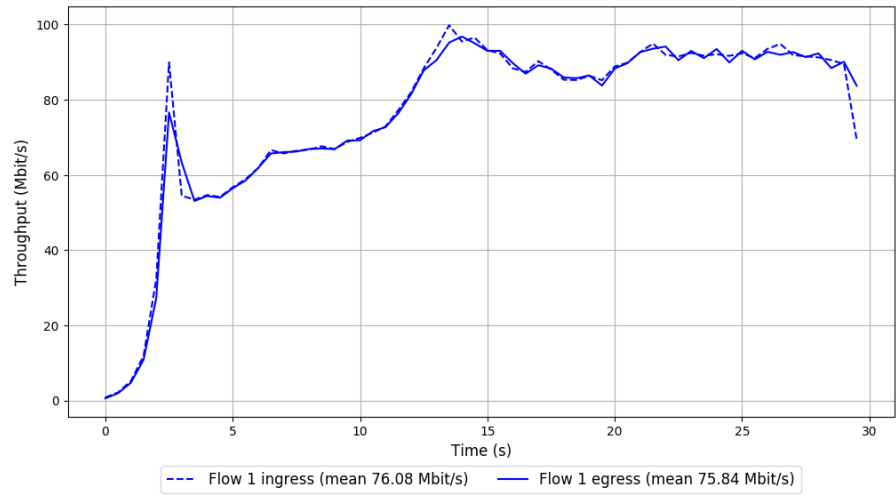


Run 7: Statistics of Vivace-LTE

Start at: 2018-03-15 03:27:30
End at: 2018-03-15 03:28:00
Local clock offset: 6.409 ms
Remote clock offset: 77.236 ms

Below is generated by plot.py at 2018-03-15 05:23:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.84 Mbit/s
95th percentile per-packet one-way delay: 81.107 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 75.84 Mbit/s
95th percentile per-packet one-way delay: 81.107 ms
Loss rate: 0.31%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-15 03:51:58

End at: 2018-03-15 03:52:28

Local clock offset: 2.587 ms

Remote clock offset: 68.425 ms

Below is generated by plot.py at 2018-03-15 05:23:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.96 Mbit/s

95th percentile per-packet one-way delay: 82.468 ms

Loss rate: 1.64%

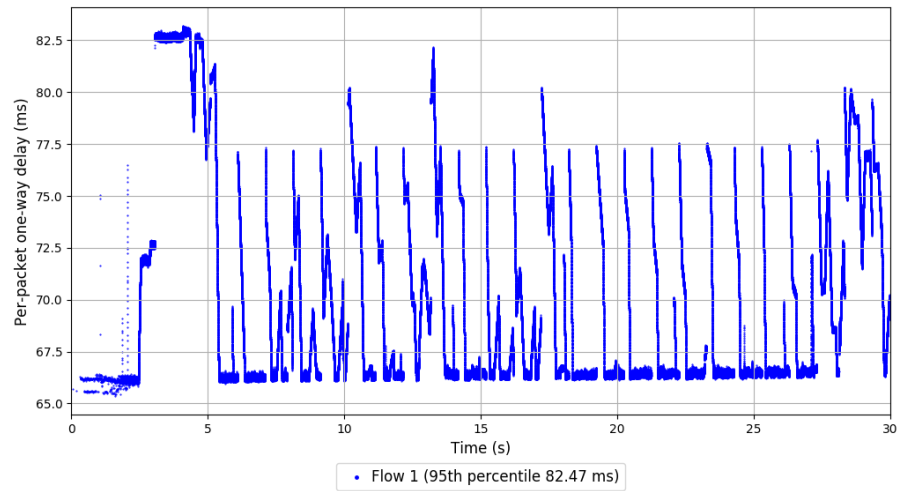
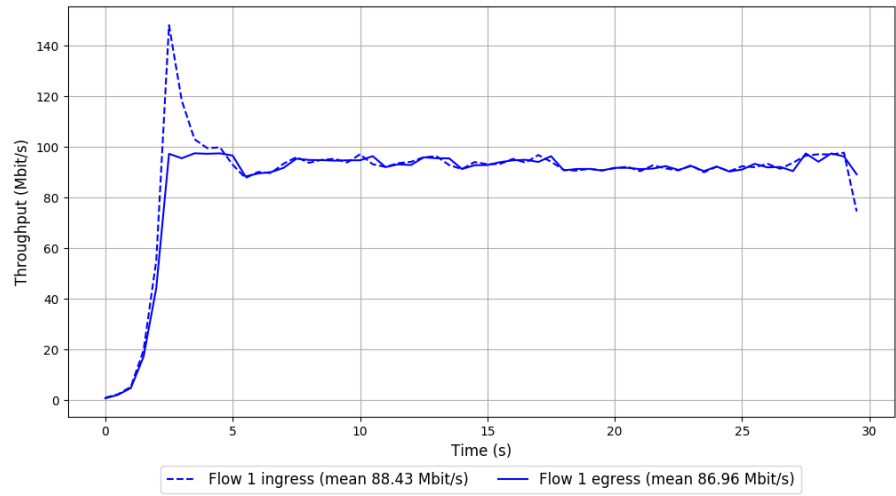
-- Flow 1:

Average throughput: 86.96 Mbit/s

95th percentile per-packet one-way delay: 82.468 ms

Loss rate: 1.64%

Run 8: Report of Vivace-LTE — Data Link

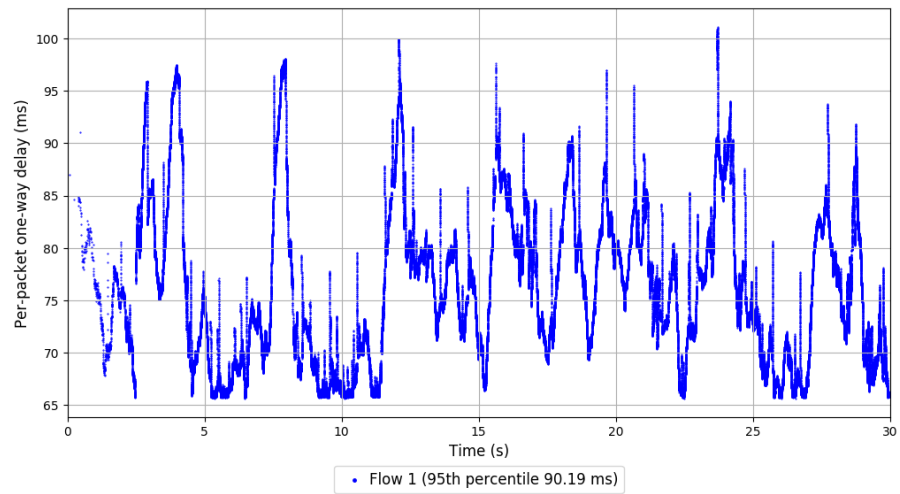
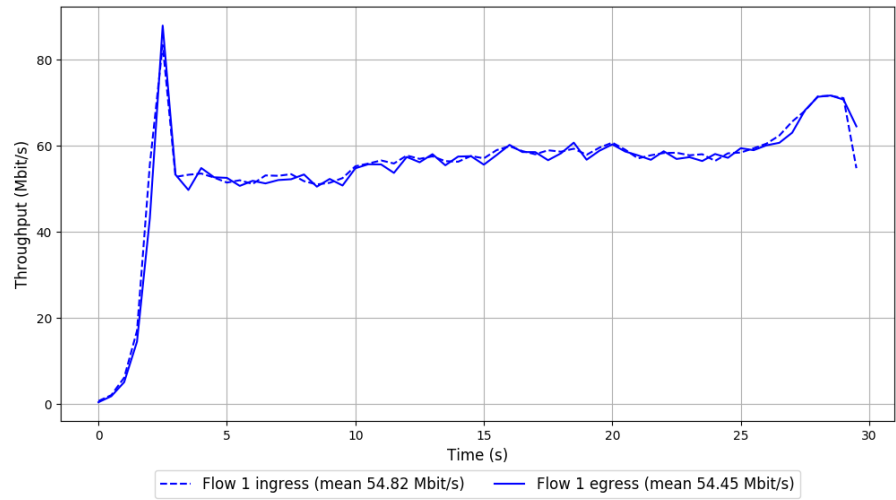


Run 9: Statistics of Vivace-LTE

Start at: 2018-03-15 04:16:04
End at: 2018-03-15 04:16:34
Local clock offset: -0.691 ms
Remote clock offset: 59.906 ms

Below is generated by plot.py at 2018-03-15 05:23:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.45 Mbit/s
95th percentile per-packet one-way delay: 90.188 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 54.45 Mbit/s
95th percentile per-packet one-way delay: 90.188 ms
Loss rate: 0.75%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-15 04:39:06
End at: 2018-03-15 04:39:36
Local clock offset: -4.351 ms
Remote clock offset: 26.339 ms

Below is generated by plot.py at 2018-03-15 05:23:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 73.614 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 73.614 ms
Loss rate: 1.19%

Run 10: Report of Vivace-LTE — Data Link

