

Pantheon Report

Generated at 2018-01-26 08:22:23 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

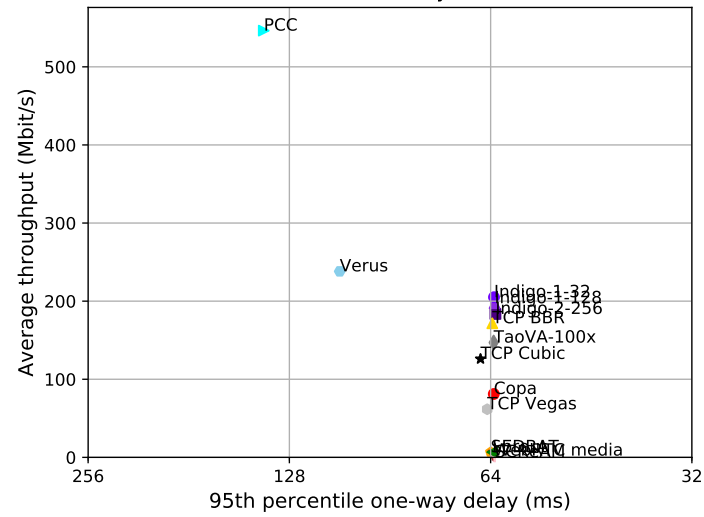
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

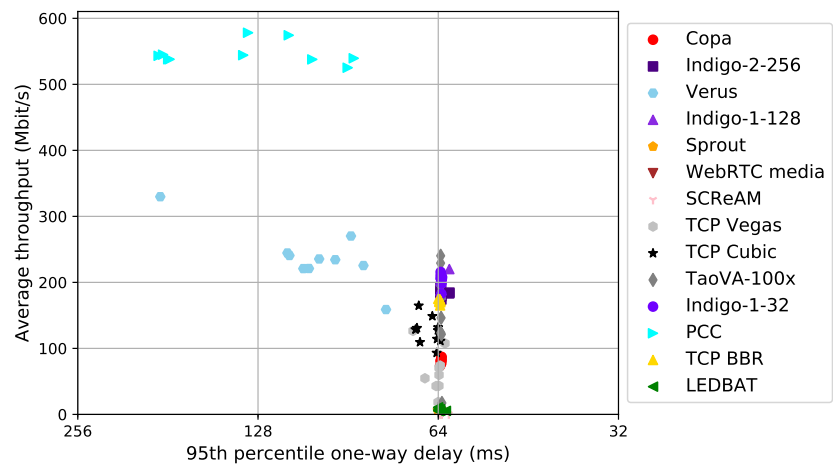
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Tokyo Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Tokyo Ethernet to GCE Iowa 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	9	171.69	63.63	0.47
TCP Cubic	10	126.04	66.27	0.35
LEDBAT	10	6.66	63.67	0.50
PCC	10	546.34	139.79	1.46
QUIC Cubic	0	N/A	N/A	N/A
SCReAM	10	0.22	63.13	0.38
WebRTC media	10	2.27	63.38	0.49
Sprout	10	6.57	63.99	0.44
TaoVA-100x	10	146.96	63.34	0.71
TCP Vegas	10	61.60	64.76	0.37
Verus	10	238.14	107.63	1.26
Copa	9	81.15	63.31	0.39
Indigo-2-256	10	183.62	62.95	0.45
Indigo-1-32	10	205.04	63.27	0.44
Indigo-1-128	10	197.34	63.14	0.42

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 03:41:34

End at: 2018-01-26 03:42:04

Below is generated by plot.py at 2018-01-26 07:39:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.79 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.47%

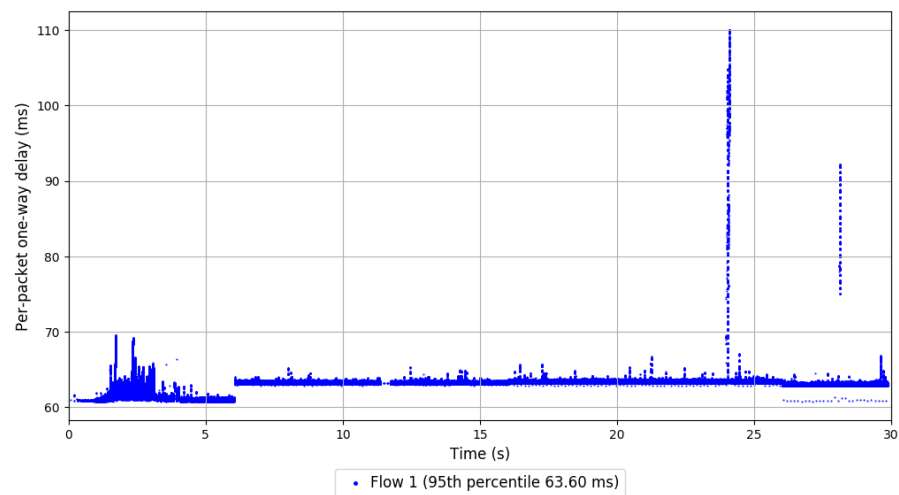
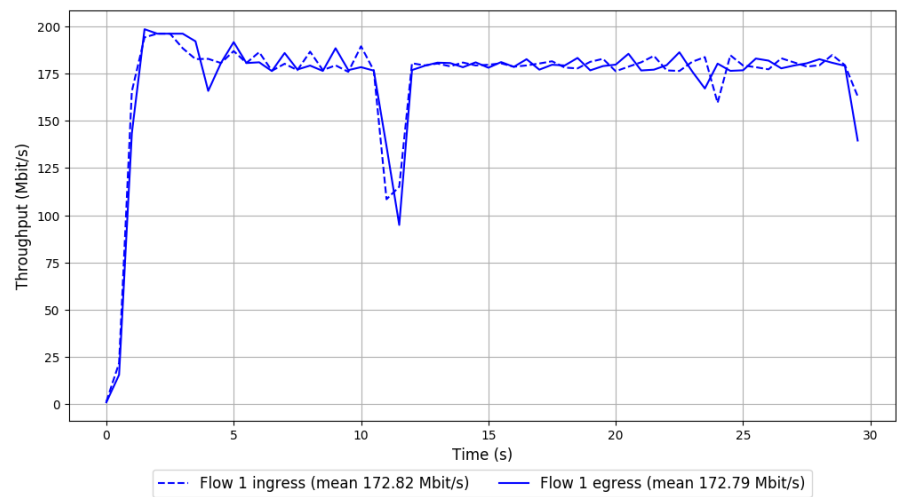
-- Flow 1:

Average throughput: 172.79 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.47%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-26 03:53:44

End at: 2018-01-26 03:54:14

Below is generated by plot.py at 2018-01-26 07:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.57 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 0.43%

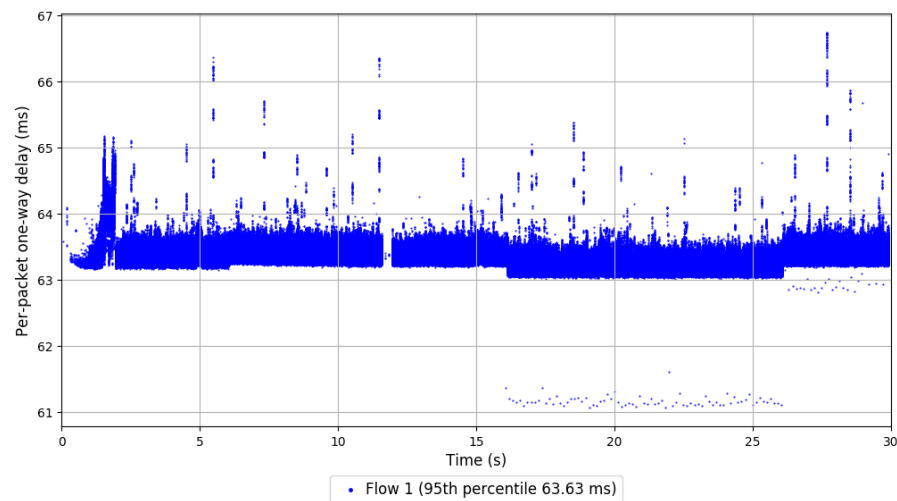
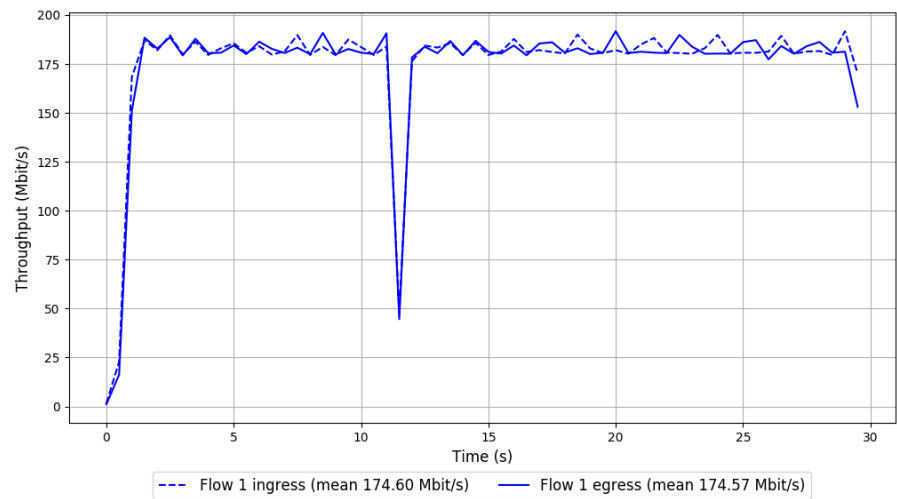
-- Flow 1:

Average throughput: 174.57 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 0.43%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-26 04:05:57

End at: 2018-01-26 04:06:27

Below is generated by plot.py at 2018-01-26 07:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.96 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.47%

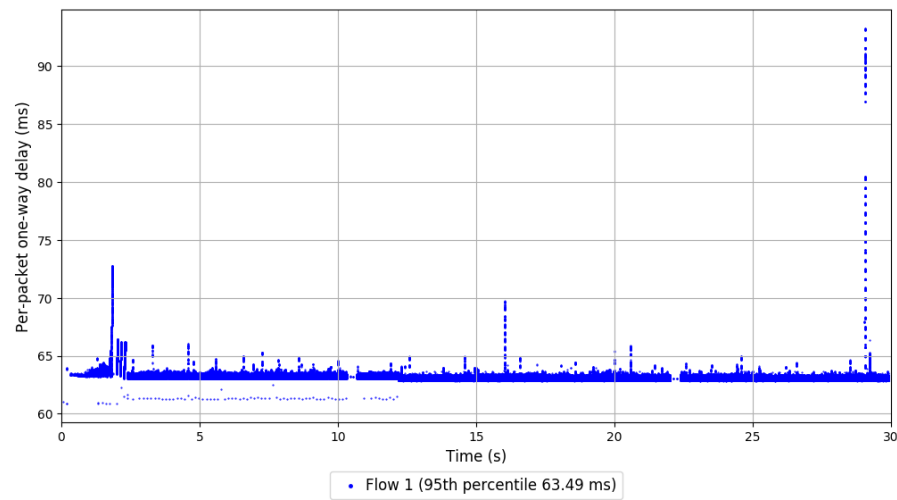
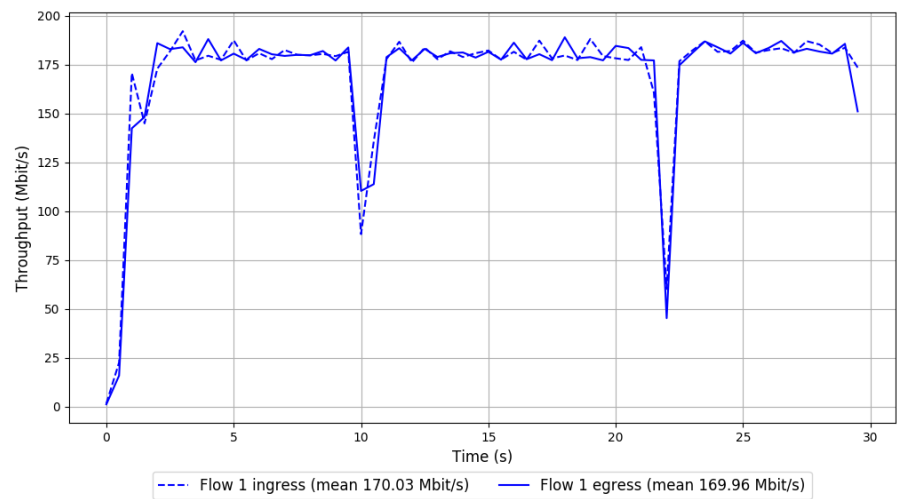
-- Flow 1:

Average throughput: 169.96 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.47%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-26 04:18:15

End at: 2018-01-26 04:18:45

Below is generated by plot.py at 2018-01-26 07:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.10 Mbit/s

95th percentile per-packet one-way delay: 63.995 ms

Loss rate: 0.45%

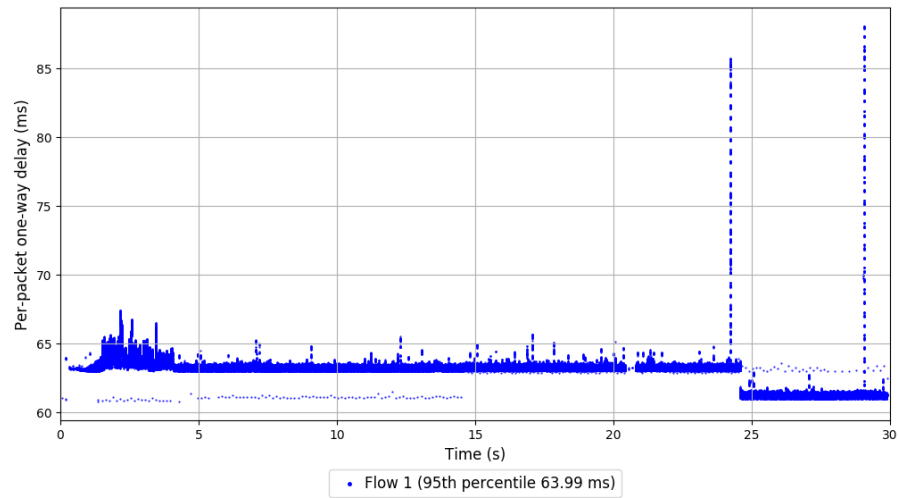
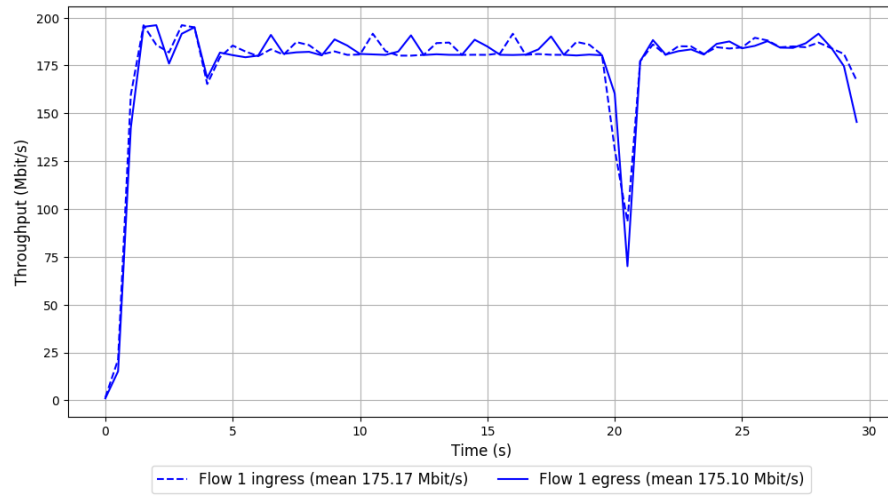
-- Flow 1:

Average throughput: 175.10 Mbit/s

95th percentile per-packet one-way delay: 63.995 ms

Loss rate: 0.45%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-26 04:30:33

End at: 2018-01-26 04:31:03

Below is generated by plot.py at 2018-01-26 07:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.13 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.67%

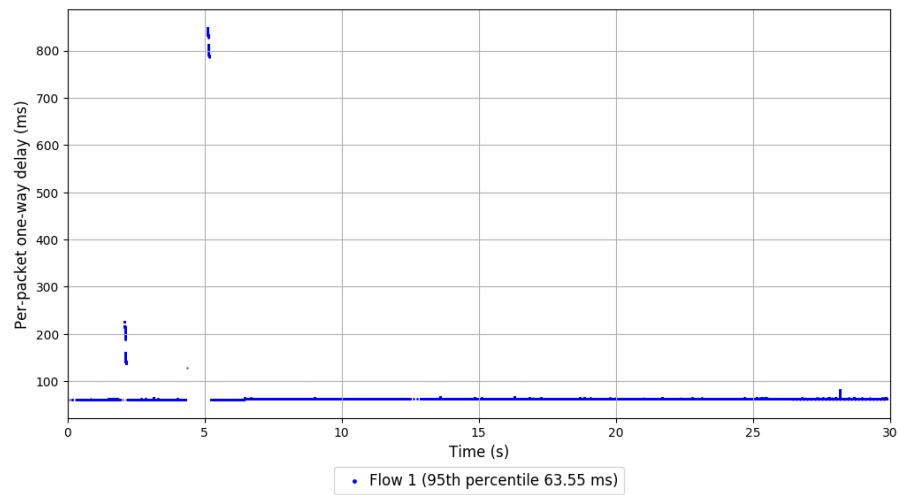
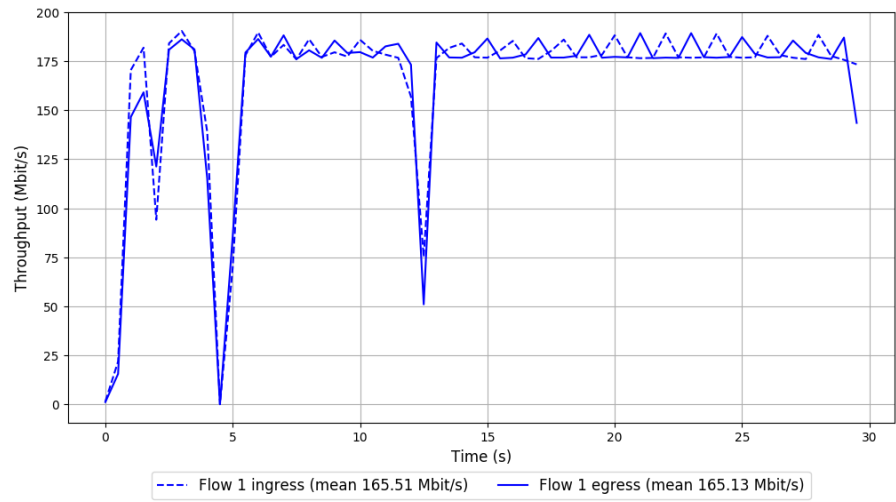
-- Flow 1:

Average throughput: 165.13 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.67%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-26 04:42:43

End at: 2018-01-26 04:43:13

Below is generated by plot.py at 2018-01-26 07:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.88 Mbit/s

95th percentile per-packet one-way delay: 63.447 ms

Loss rate: 0.43%

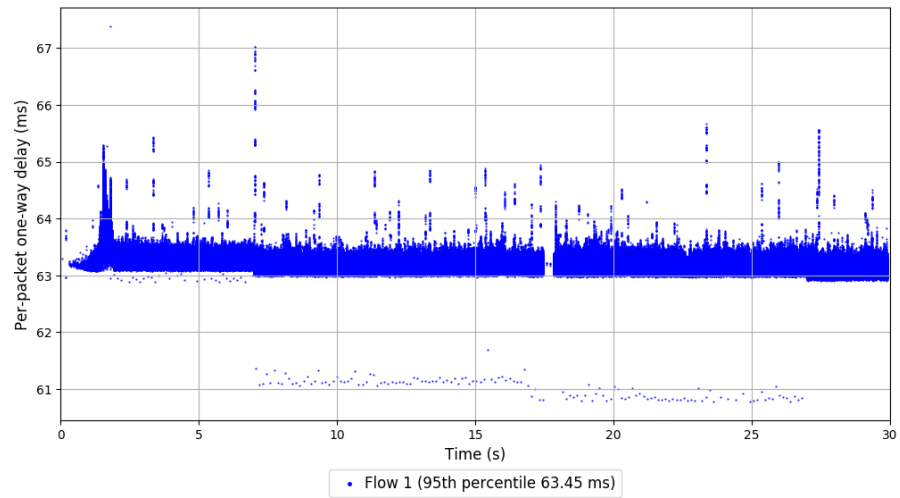
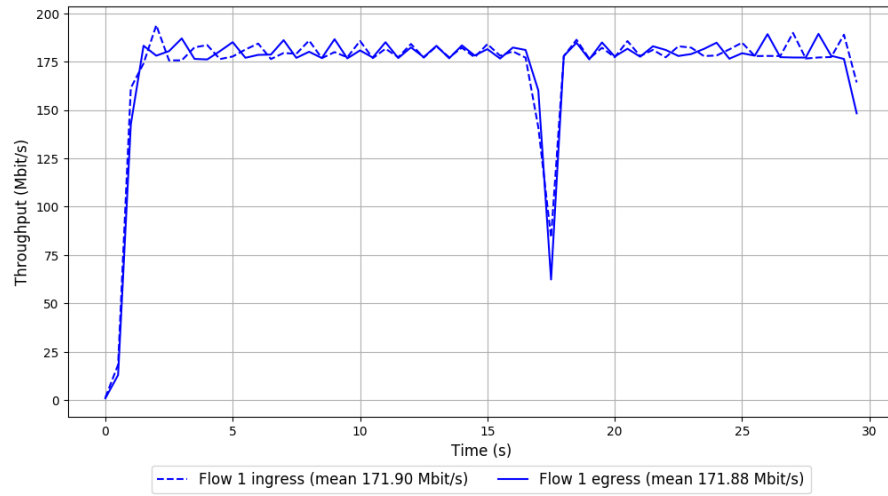
-- Flow 1:

Average throughput: 171.88 Mbit/s

95th percentile per-packet one-way delay: 63.447 ms

Loss rate: 0.43%

Run 6: Report of TCP BBR — Data Link

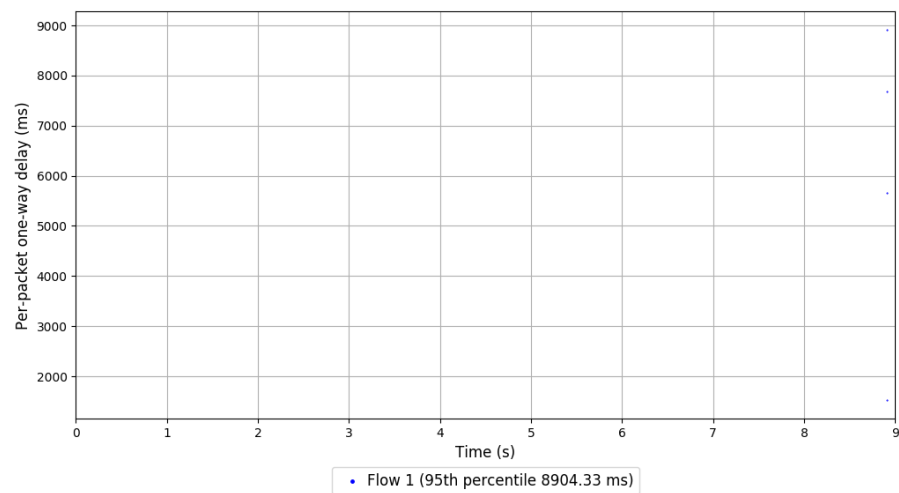
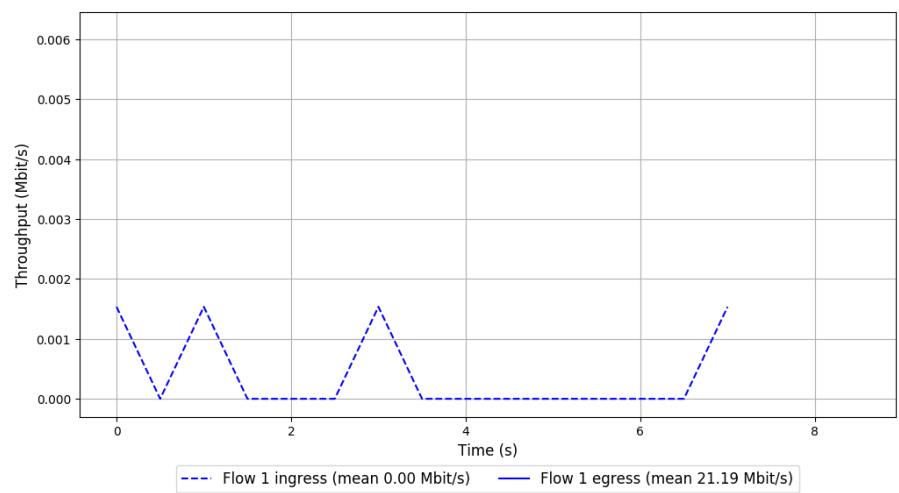


Run 7: Statistics of TCP BBR

Start at: 2018-01-26 04:54:47

End at: 2018-01-26 04:55:17

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-26 05:06:57

End at: 2018-01-26 05:07:27

Below is generated by plot.py at 2018-01-26 07:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.78 Mbit/s

95th percentile per-packet one-way delay: 63.704 ms

Loss rate: 0.37%

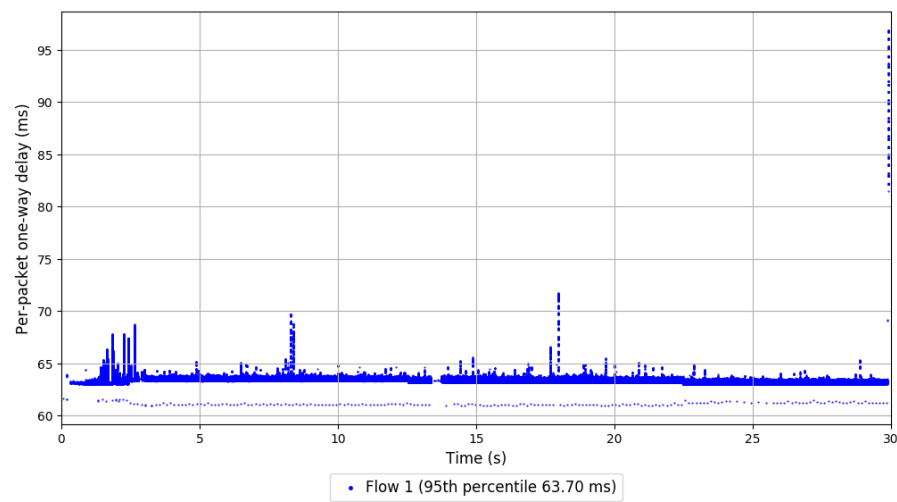
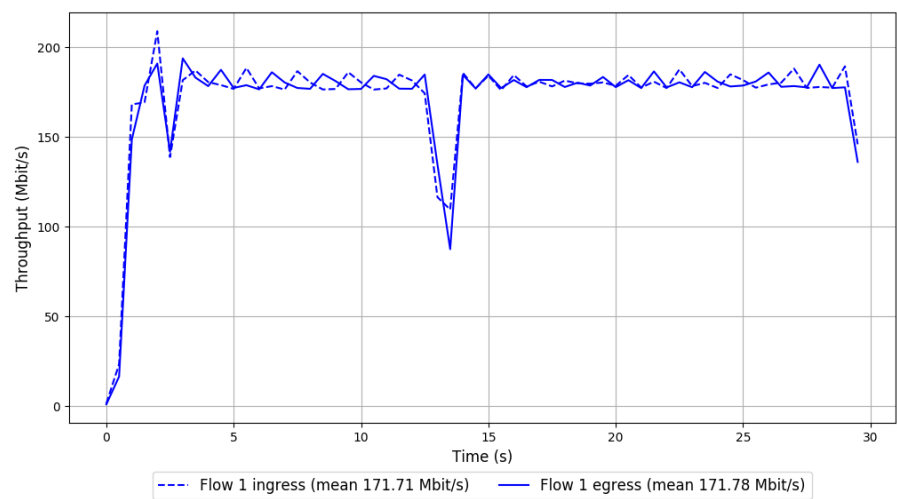
-- Flow 1:

Average throughput: 171.78 Mbit/s

95th percentile per-packet one-way delay: 63.704 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-26 05:19:08

End at: 2018-01-26 05:19:38

Below is generated by plot.py at 2018-01-26 07:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.43 Mbit/s

95th percentile per-packet one-way delay: 63.741 ms

Loss rate: 0.50%

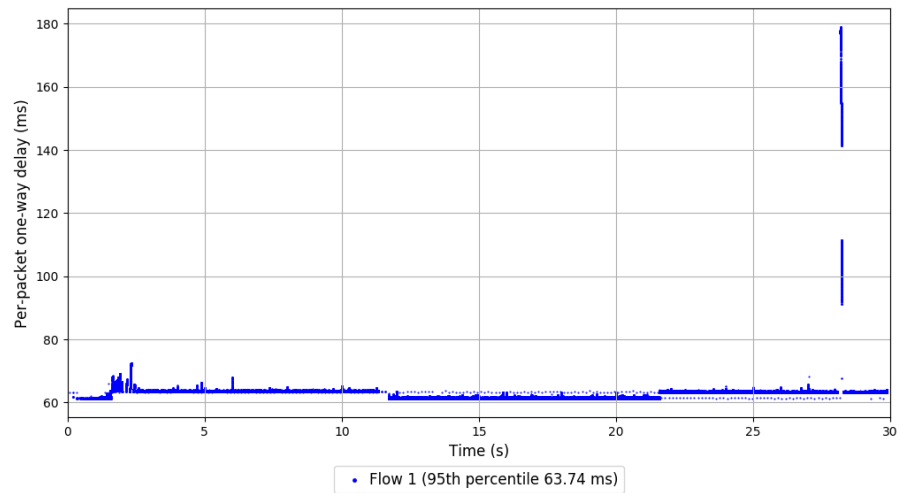
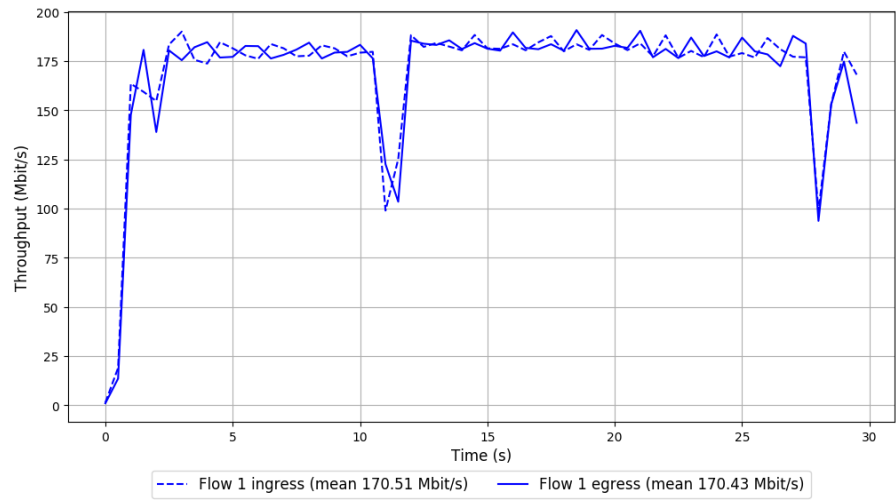
-- Flow 1:

Average throughput: 170.43 Mbit/s

95th percentile per-packet one-way delay: 63.741 ms

Loss rate: 0.50%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-26 05:31:07

End at: 2018-01-26 05:31:37

Below is generated by plot.py at 2018-01-26 07:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.61 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.44%

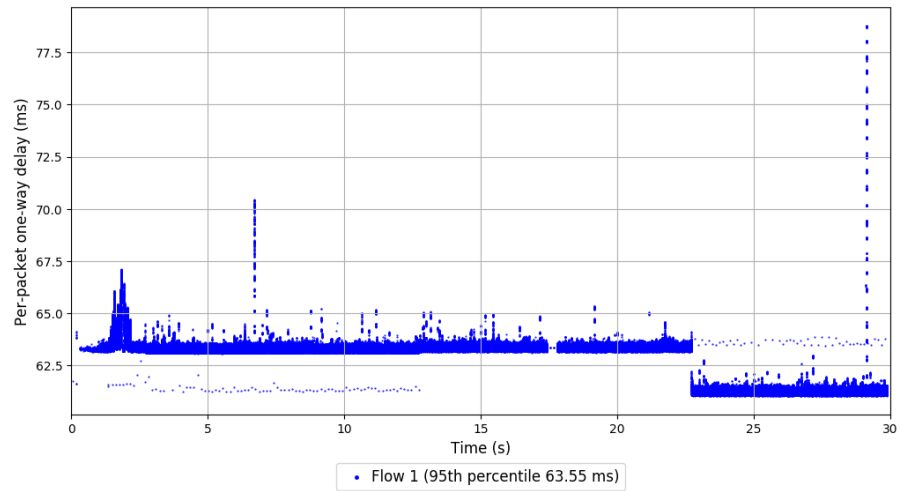
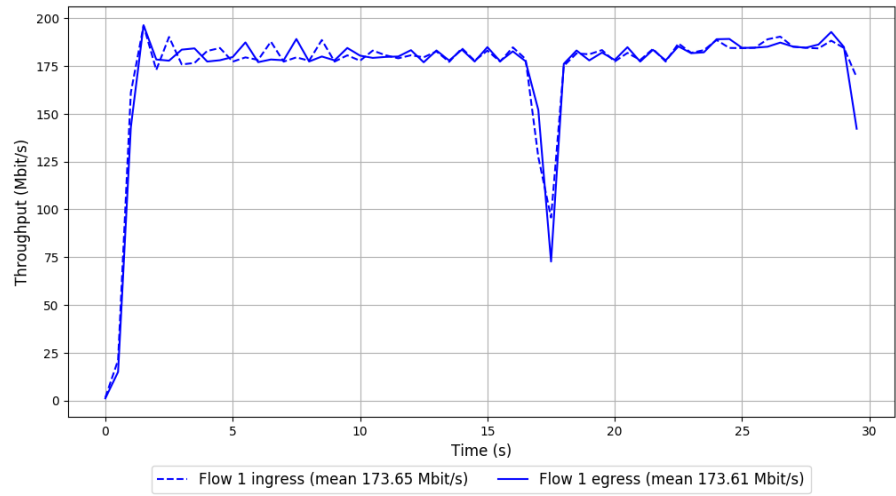
-- Flow 1:

Average throughput: 173.61 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.44%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 03:37:43

End at: 2018-01-26 03:38:13

Below is generated by plot.py at 2018-01-26 07:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.39 Mbit/s

95th percentile per-packet one-way delay: 64.079 ms

Loss rate: 0.26%

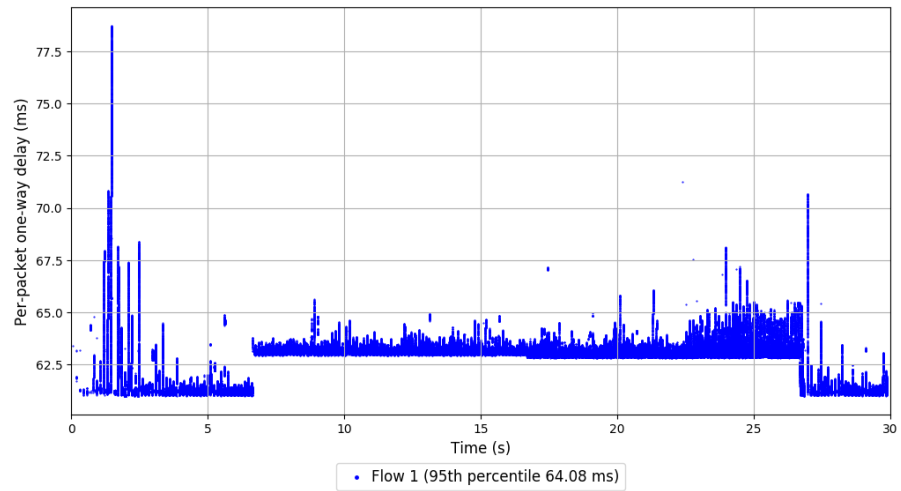
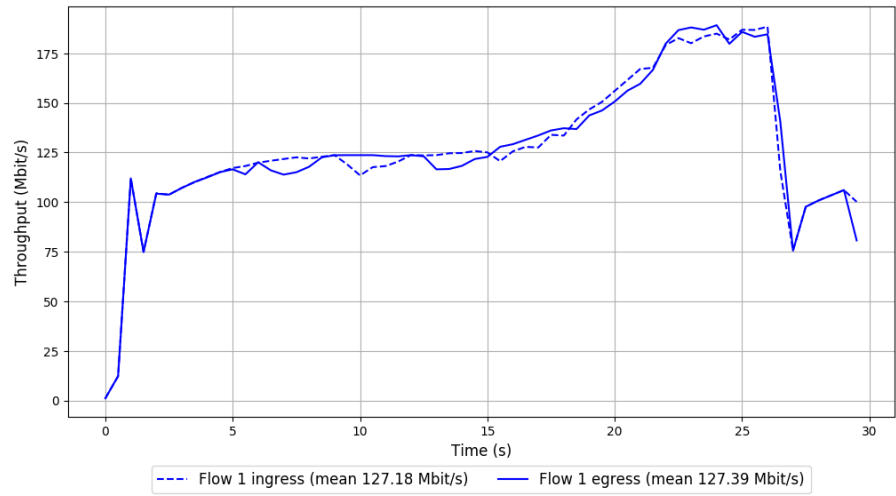
-- Flow 1:

Average throughput: 127.39 Mbit/s

95th percentile per-packet one-way delay: 64.079 ms

Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 03:49:53

End at: 2018-01-26 03:50:23

Below is generated by plot.py at 2018-01-26 07:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.84 Mbit/s

95th percentile per-packet one-way delay: 65.470 ms

Loss rate: 0.32%

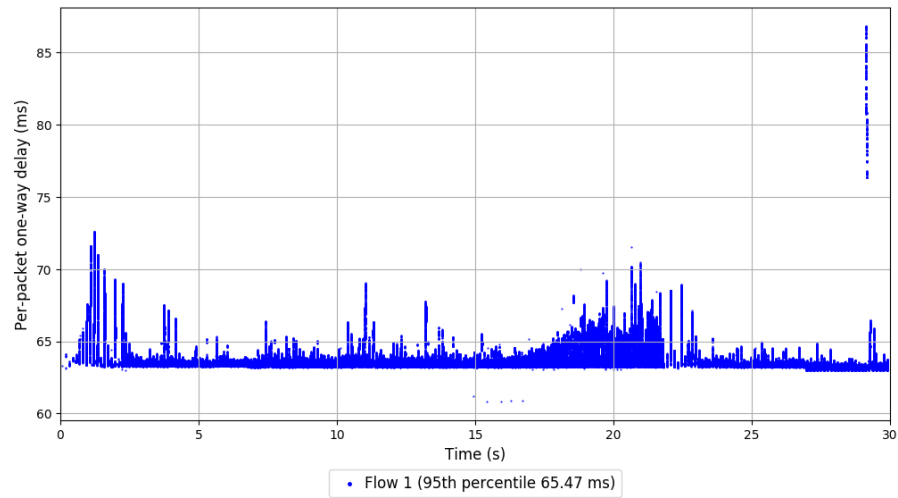
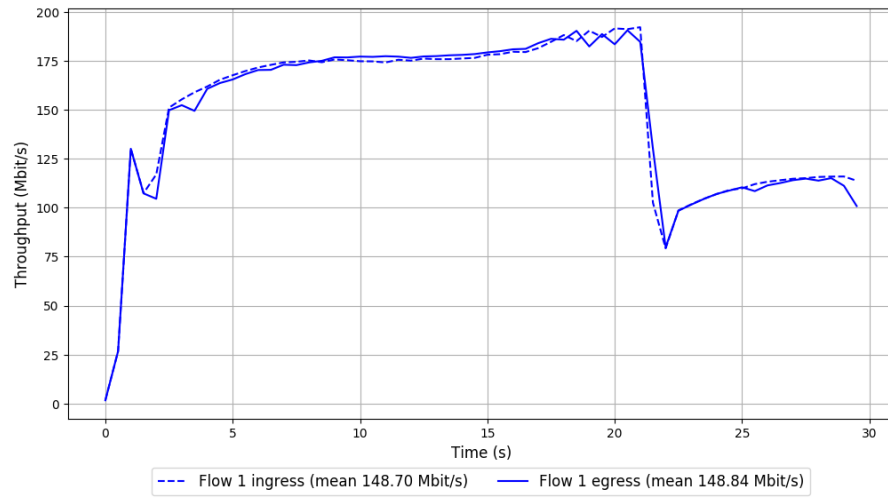
-- Flow 1:

Average throughput: 148.84 Mbit/s

95th percentile per-packet one-way delay: 65.470 ms

Loss rate: 0.32%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 04:02:06

End at: 2018-01-26 04:02:36

Below is generated by plot.py at 2018-01-26 07:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 64.386 ms

Loss rate: 0.51%

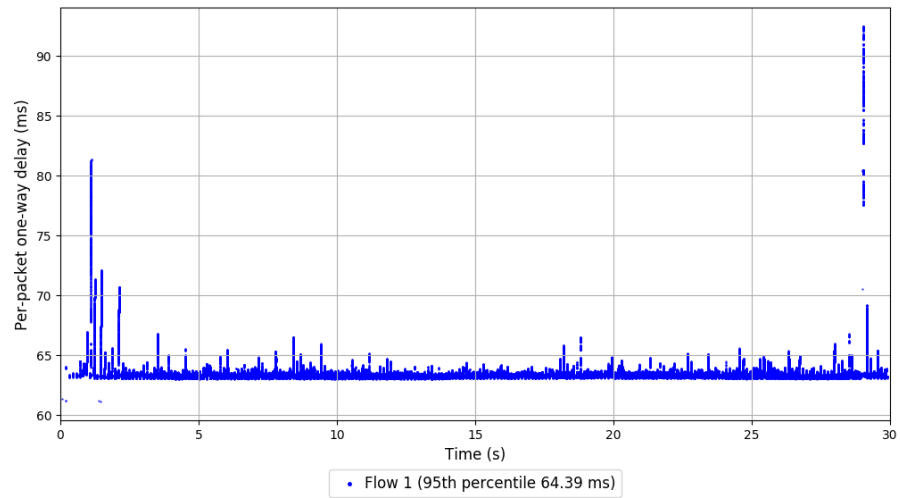
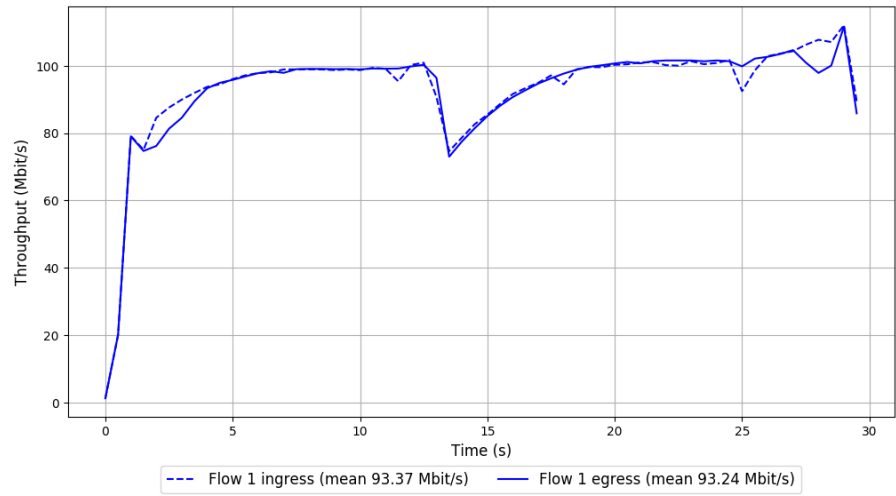
-- Flow 1:

Average throughput: 93.24 Mbit/s

95th percentile per-packet one-way delay: 64.386 ms

Loss rate: 0.51%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 04:14:22

End at: 2018-01-26 04:14:52

Below is generated by plot.py at 2018-01-26 07:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.78 Mbit/s

95th percentile per-packet one-way delay: 69.460 ms

Loss rate: 0.21%

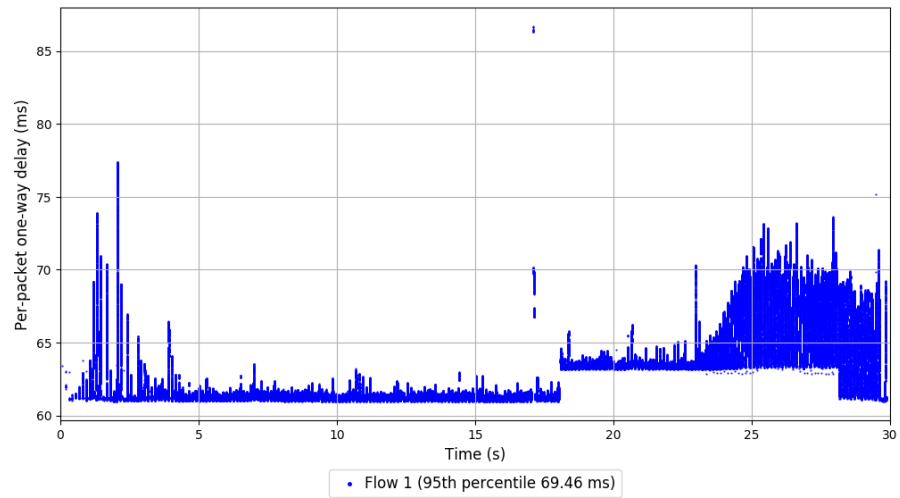
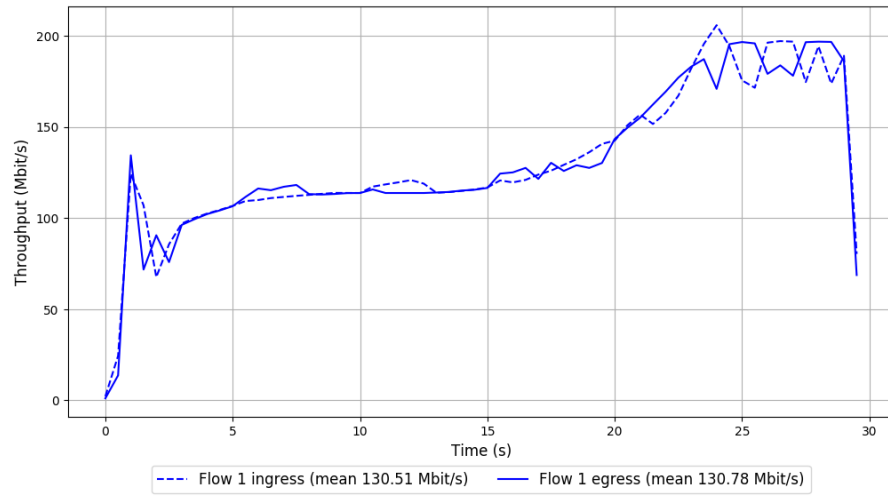
-- Flow 1:

Average throughput: 130.78 Mbit/s

95th percentile per-packet one-way delay: 69.460 ms

Loss rate: 0.21%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 04:26:41

End at: 2018-01-26 04:27:11

Below is generated by plot.py at 2018-01-26 07:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.44 Mbit/s

95th percentile per-packet one-way delay: 68.654 ms

Loss rate: 0.28%

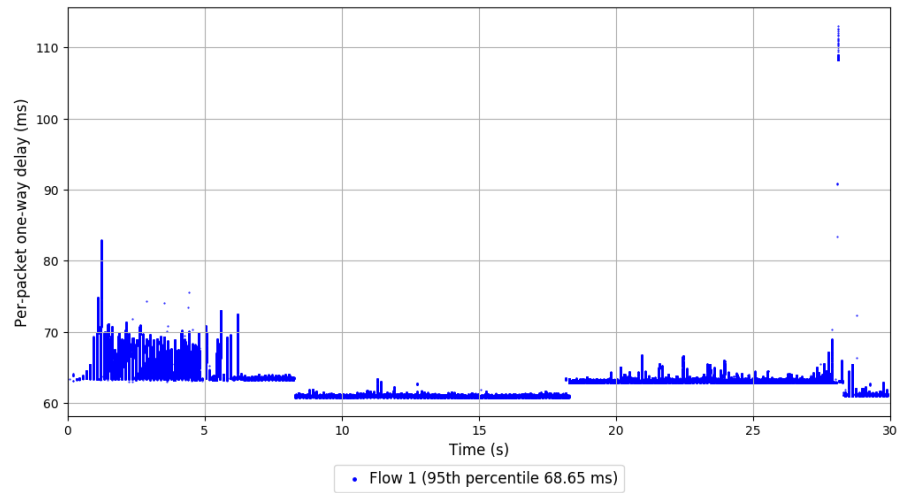
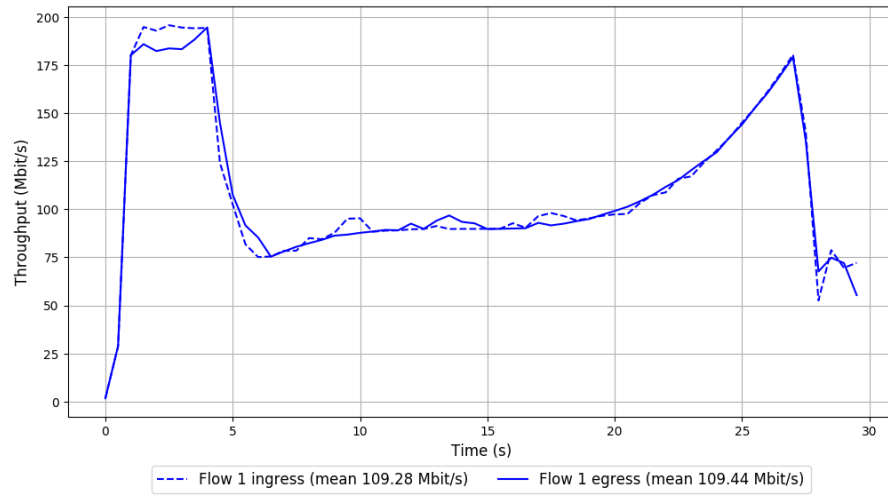
-- Flow 1:

Average throughput: 109.44 Mbit/s

95th percentile per-packet one-way delay: 68.654 ms

Loss rate: 0.28%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 04:38:49

End at: 2018-01-26 04:39:19

Below is generated by plot.py at 2018-01-26 07:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.30 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.39%

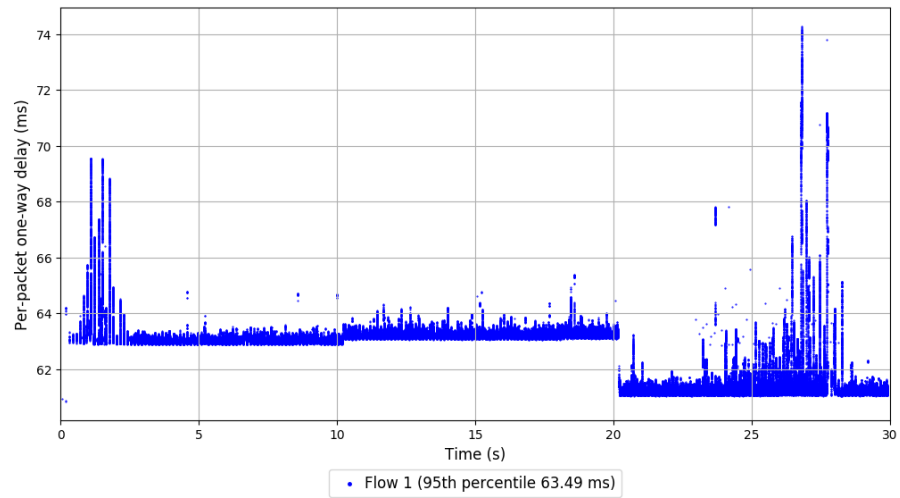
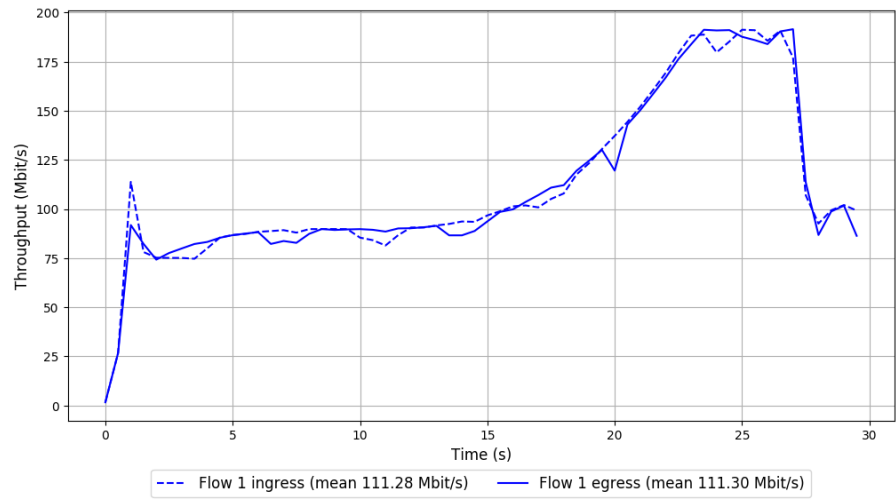
-- Flow 1:

Average throughput: 111.30 Mbit/s

95th percentile per-packet one-way delay: 63.489 ms

Loss rate: 0.39%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 04:50:57

End at: 2018-01-26 04:51:27

Below is generated by plot.py at 2018-01-26 07:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.60 Mbit/s

95th percentile per-packet one-way delay: 69.846 ms

Loss rate: 0.69%

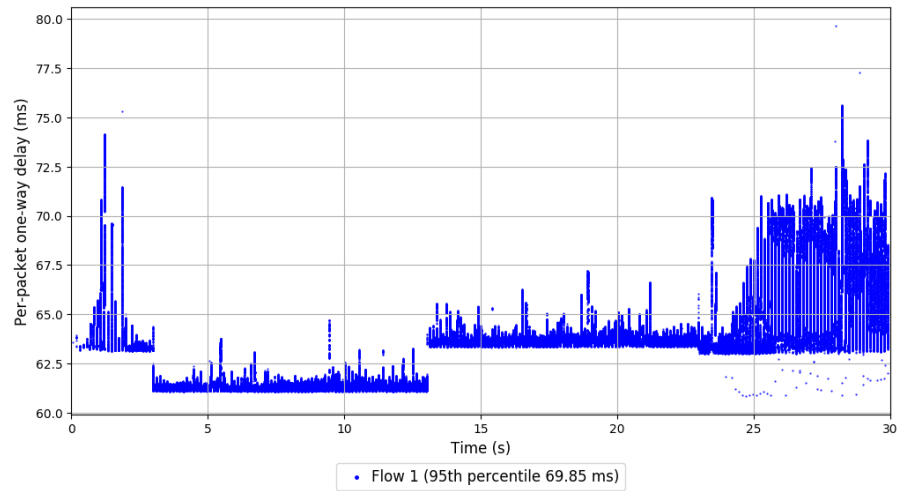
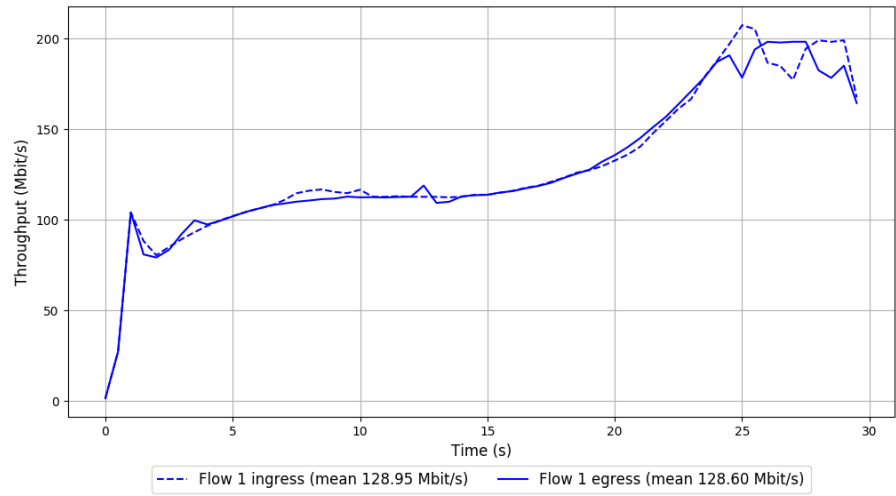
-- Flow 1:

Average throughput: 128.60 Mbit/s

95th percentile per-packet one-way delay: 69.846 ms

Loss rate: 0.69%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 05:03:01

End at: 2018-01-26 05:03:31

Below is generated by plot.py at 2018-01-26 07:42:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.33 Mbit/s

95th percentile per-packet one-way delay: 64.296 ms

Loss rate: 0.45%

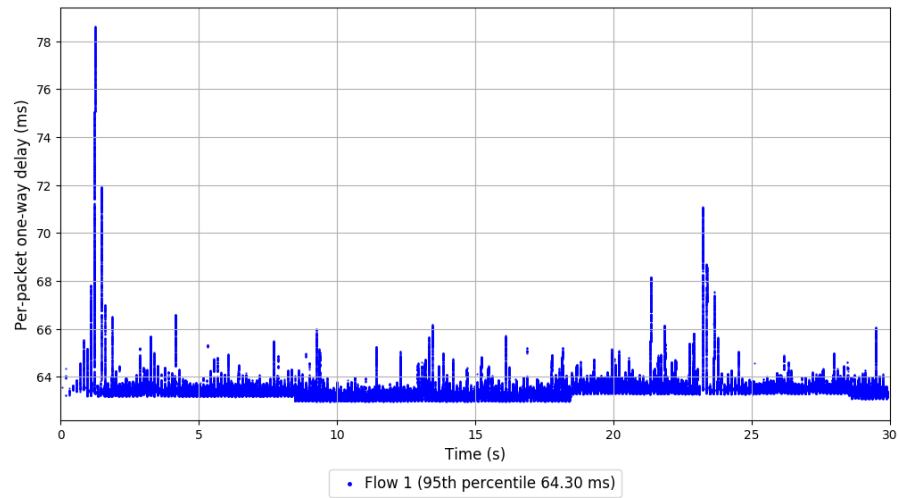
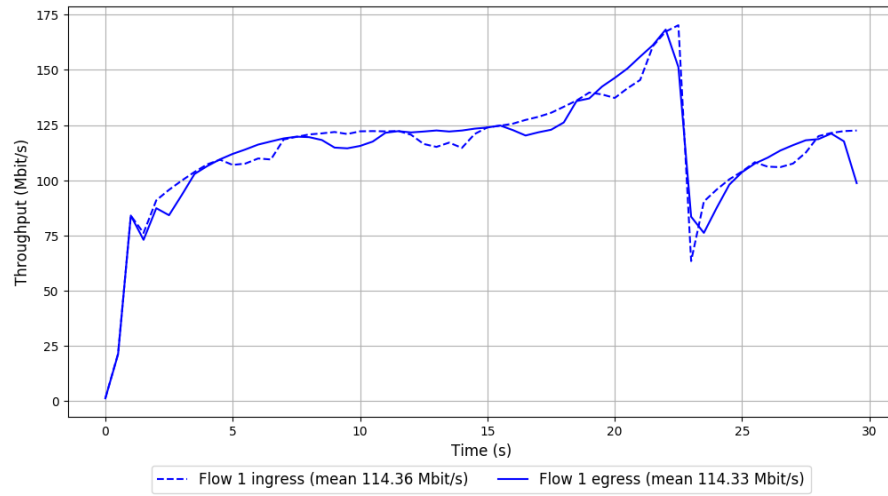
-- Flow 1:

Average throughput: 114.33 Mbit/s

95th percentile per-packet one-way delay: 64.296 ms

Loss rate: 0.45%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 05:15:09

End at: 2018-01-26 05:15:39

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.70 Mbit/s

95th percentile per-packet one-way delay: 68.988 ms

Loss rate: 0.16%

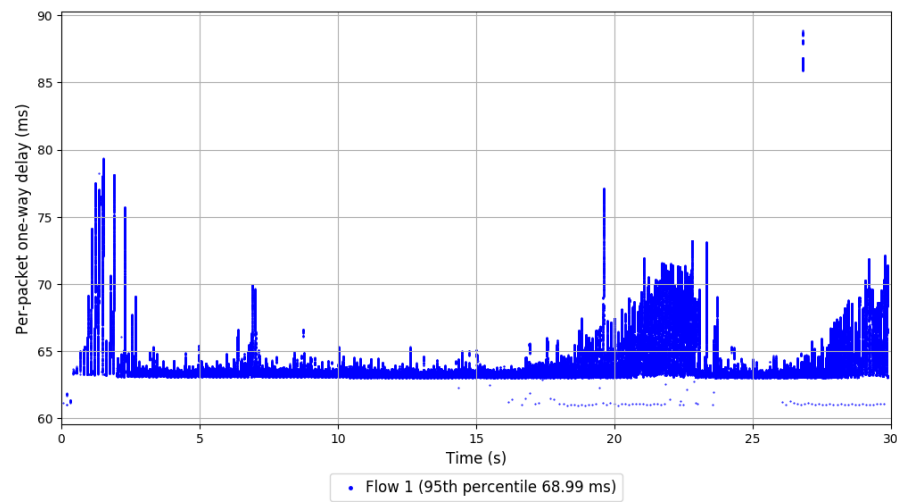
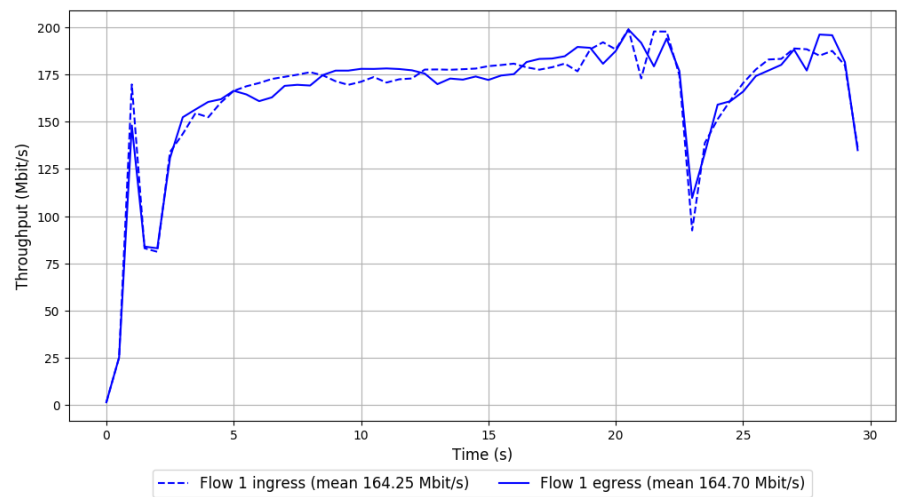
-- Flow 1:

Average throughput: 164.70 Mbit/s

95th percentile per-packet one-way delay: 68.988 ms

Loss rate: 0.16%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 05:27:13

End at: 2018-01-26 05:27:43

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.81 Mbit/s

95th percentile per-packet one-way delay: 64.045 ms

Loss rate: 0.24%

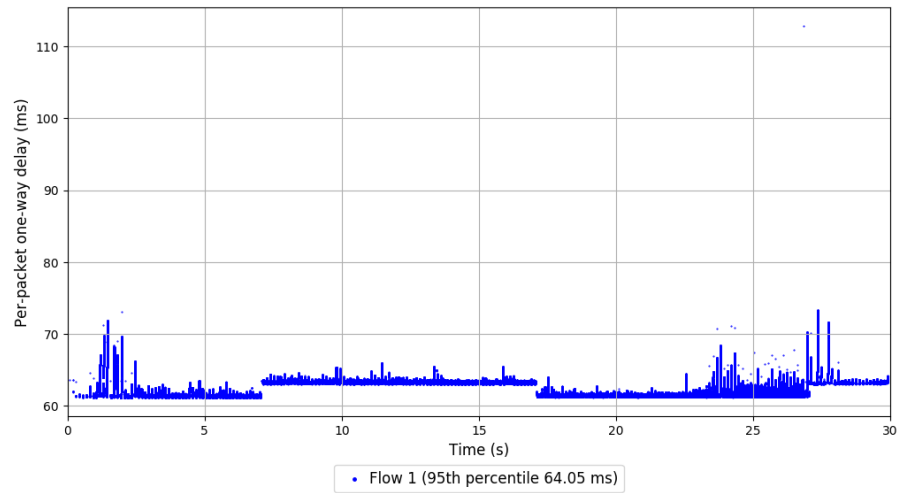
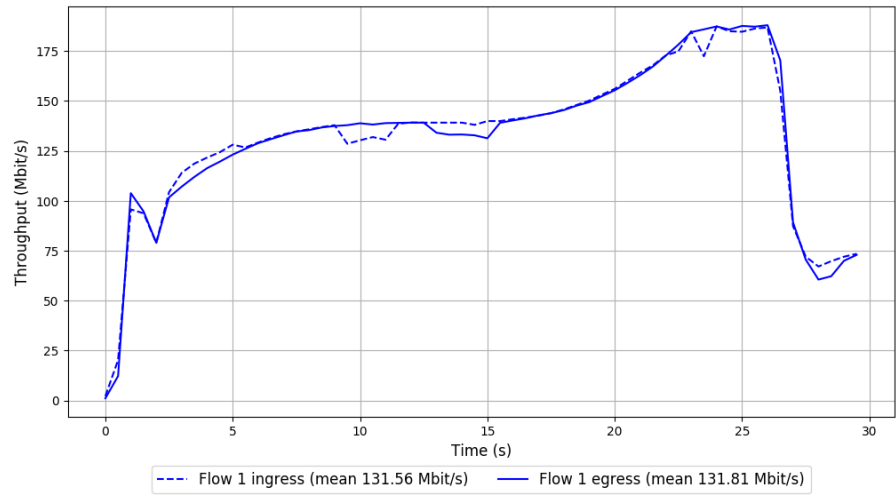
-- Flow 1:

Average throughput: 131.81 Mbit/s

95th percentile per-packet one-way delay: 64.045 ms

Loss rate: 0.24%

Run 10: Report of TCP Cubic — Data Link

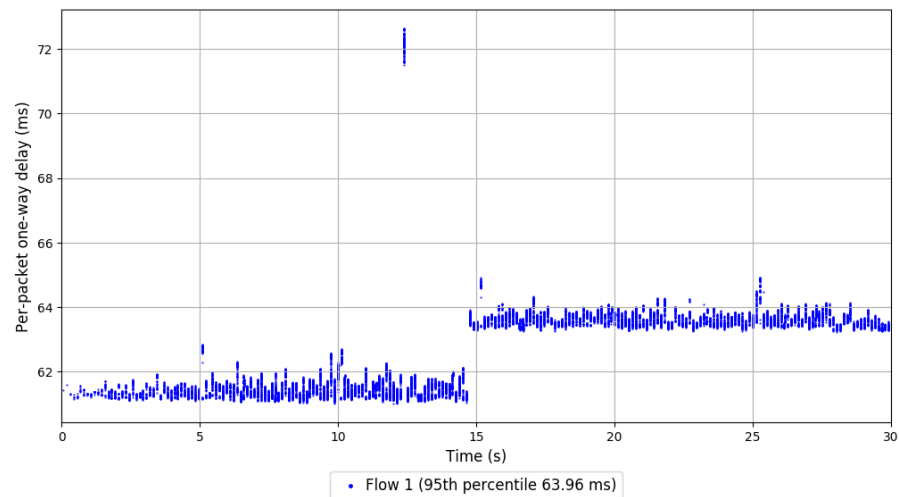
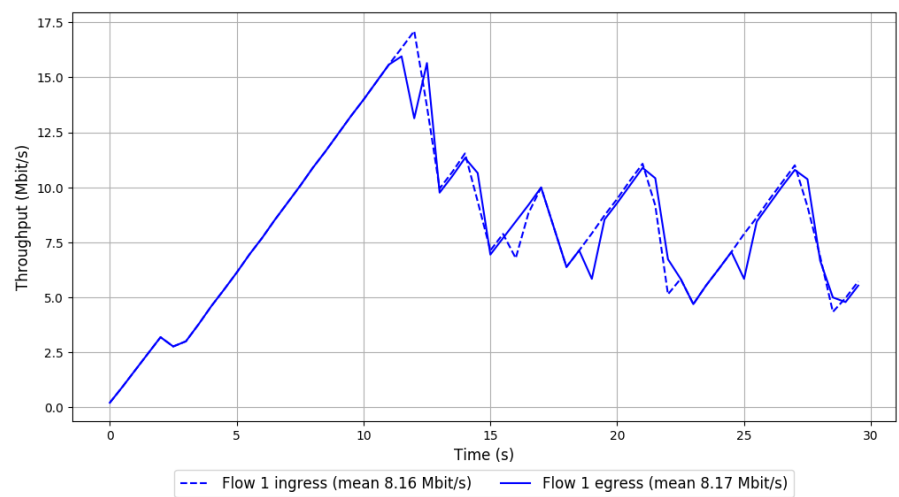


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 03:35:25
End at: 2018-01-26 03:35:55

# Below is generated by plot.py at 2018-01-26 07:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 63.962 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 63.962 ms
Loss rate: 0.31%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-26 03:47:33

End at: 2018-01-26 03:48:03

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 64.027 ms

Loss rate: 0.25%

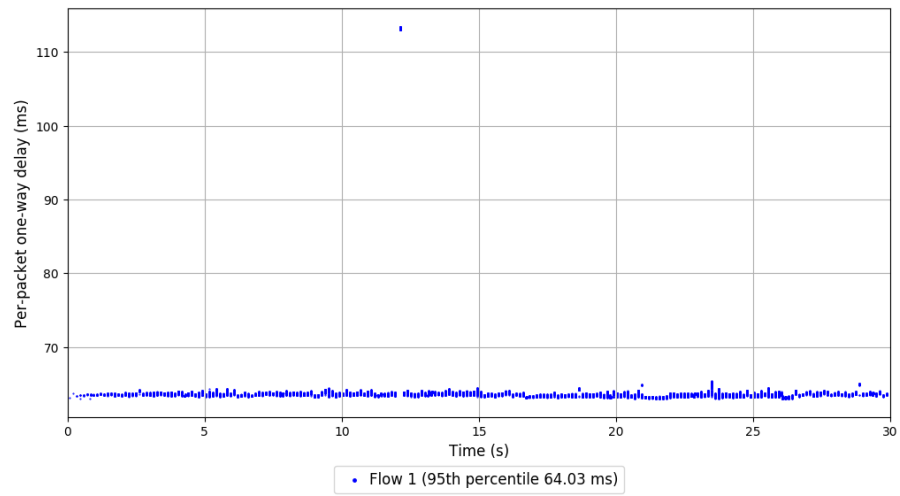
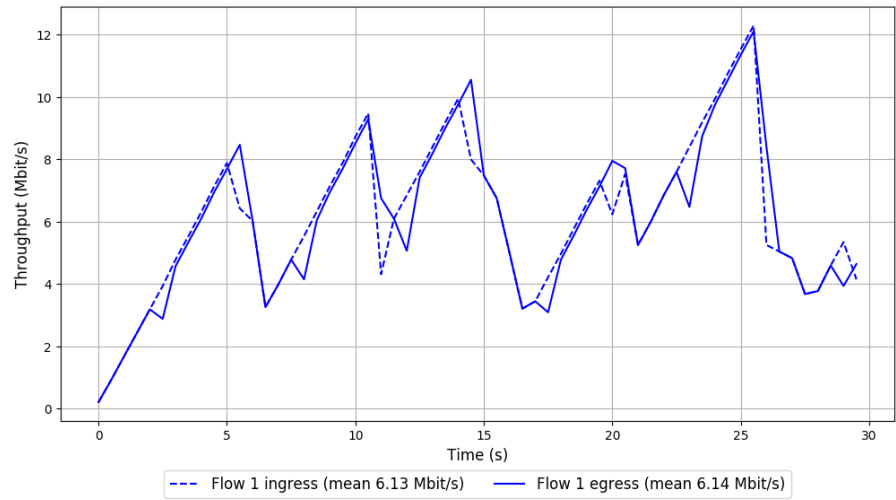
-- Flow 1:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 64.027 ms

Loss rate: 0.25%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-26 03:59:48

End at: 2018-01-26 04:00:18

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.84 Mbit/s

95th percentile per-packet one-way delay: 63.702 ms

Loss rate: 0.19%

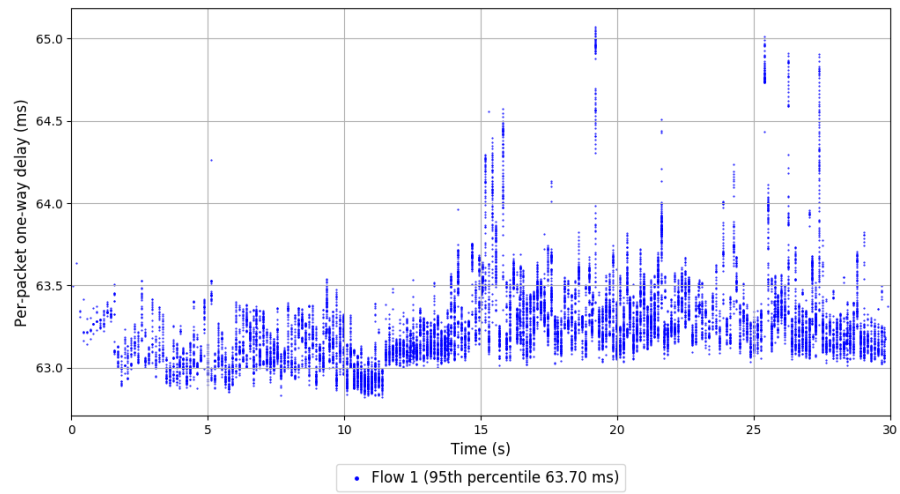
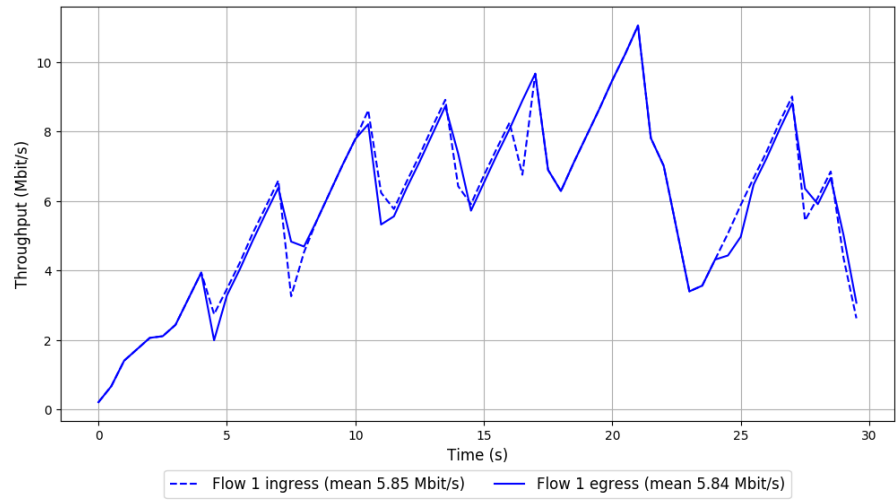
-- Flow 1:

Average throughput: 5.84 Mbit/s

95th percentile per-packet one-way delay: 63.702 ms

Loss rate: 0.19%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-26 04:12:04

End at: 2018-01-26 04:12:34

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.16 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 0.61%

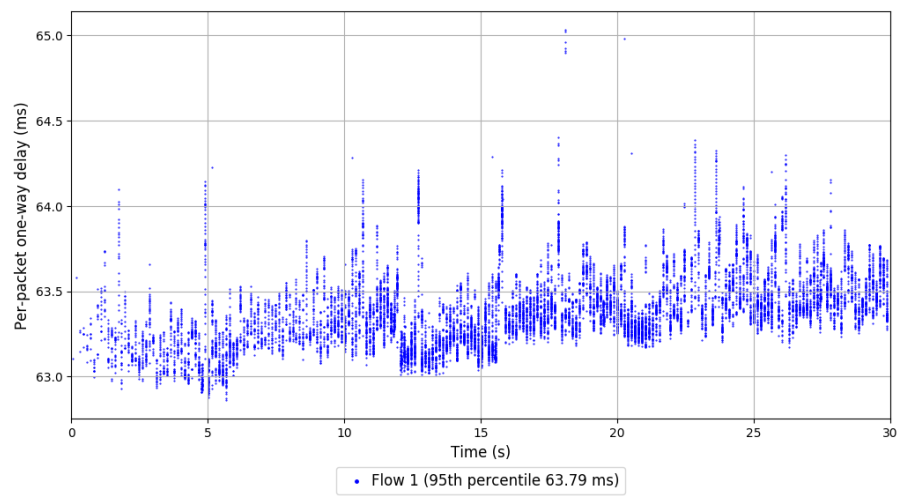
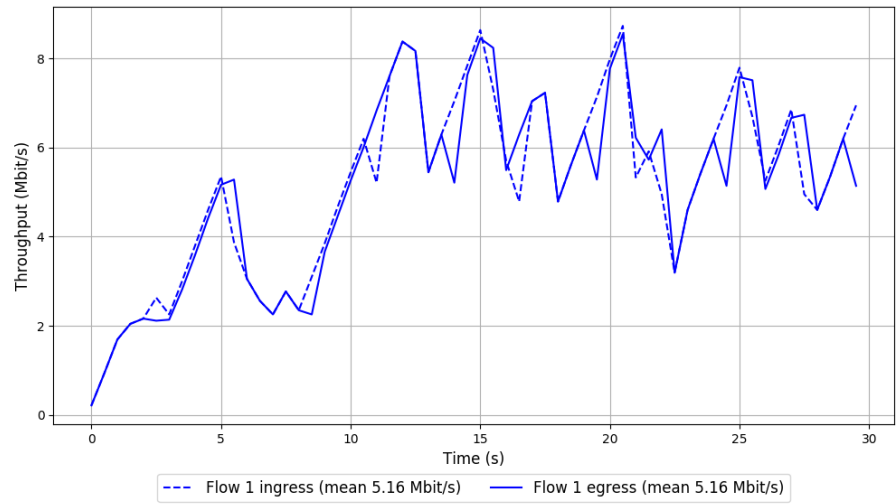
-- Flow 1:

Average throughput: 5.16 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 0.61%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-26 04:24:24

End at: 2018-01-26 04:24:54

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.49%

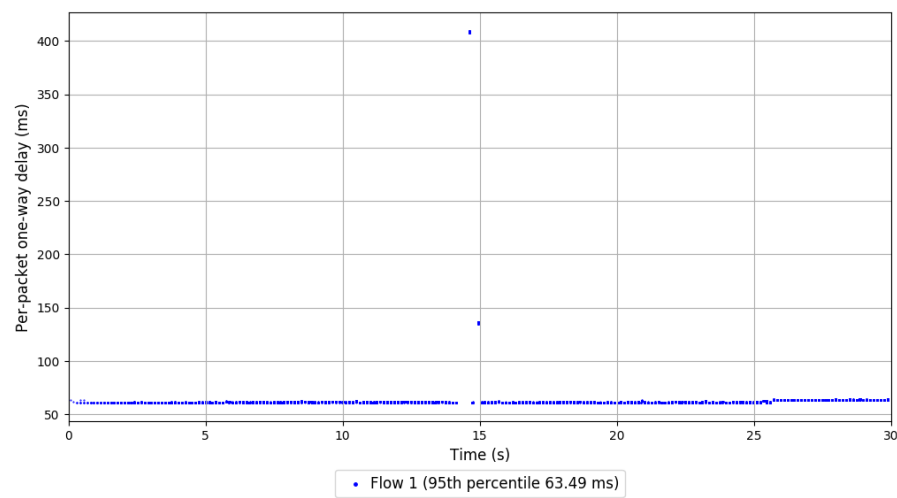
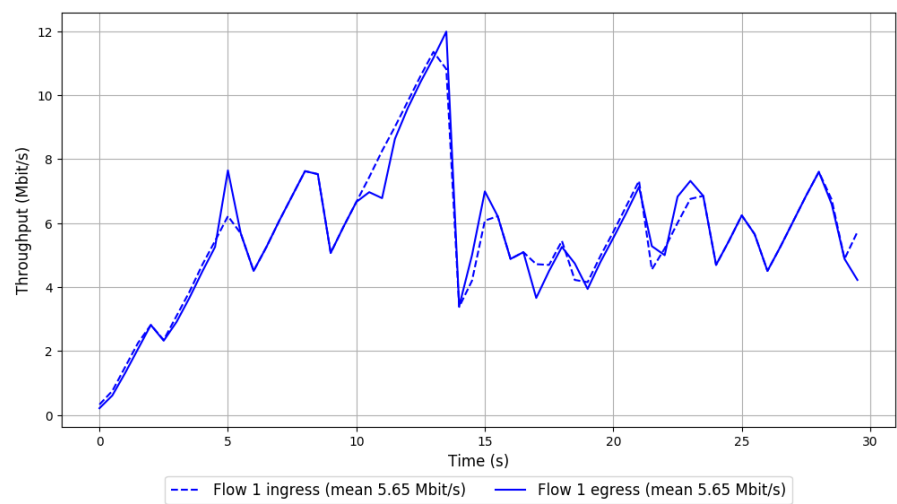
-- Flow 1:

Average throughput: 5.65 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.49%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-26 04:36:32

End at: 2018-01-26 04:37:02

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.28%

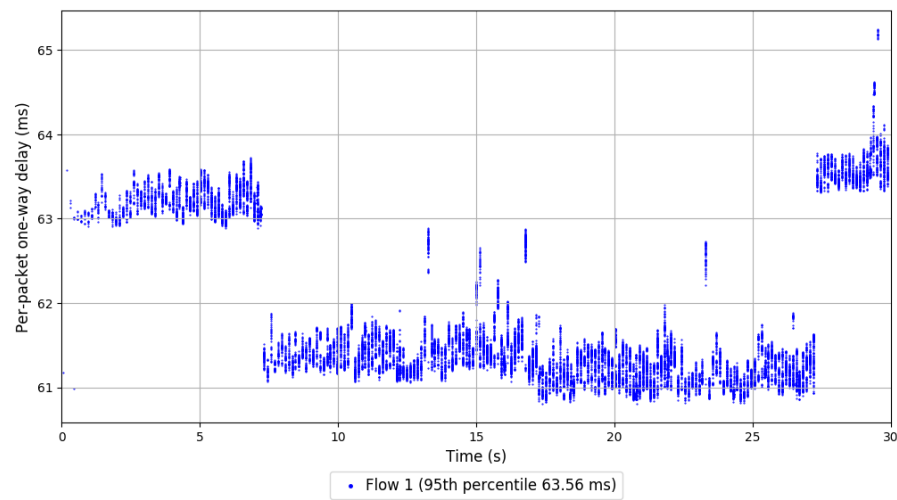
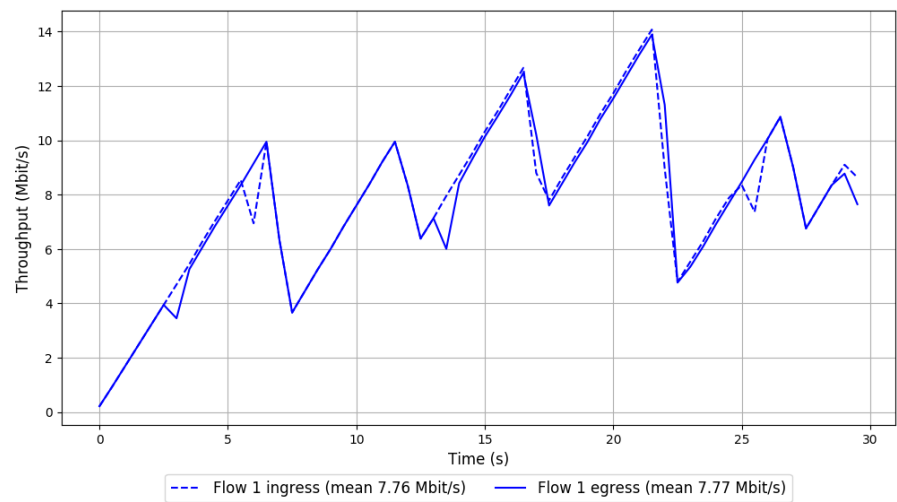
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.28%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-26 04:48:40

End at: 2018-01-26 04:49:10

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 63.971 ms

Loss rate: 0.43%

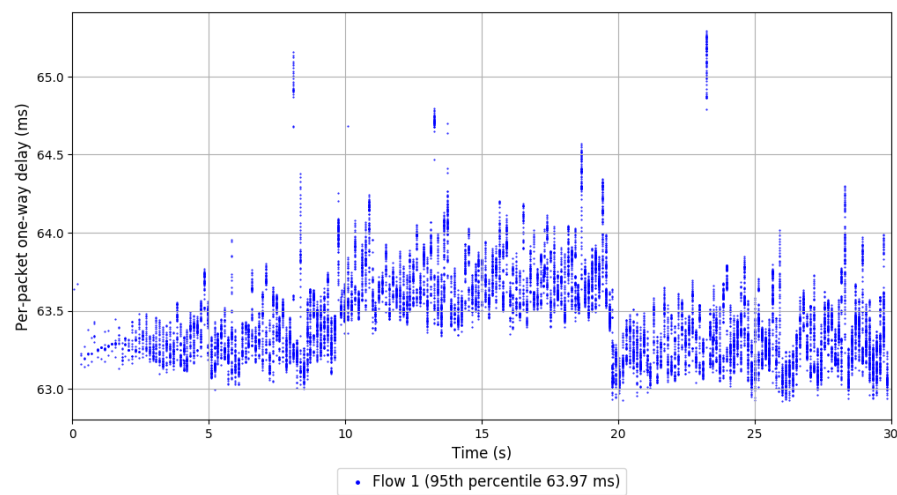
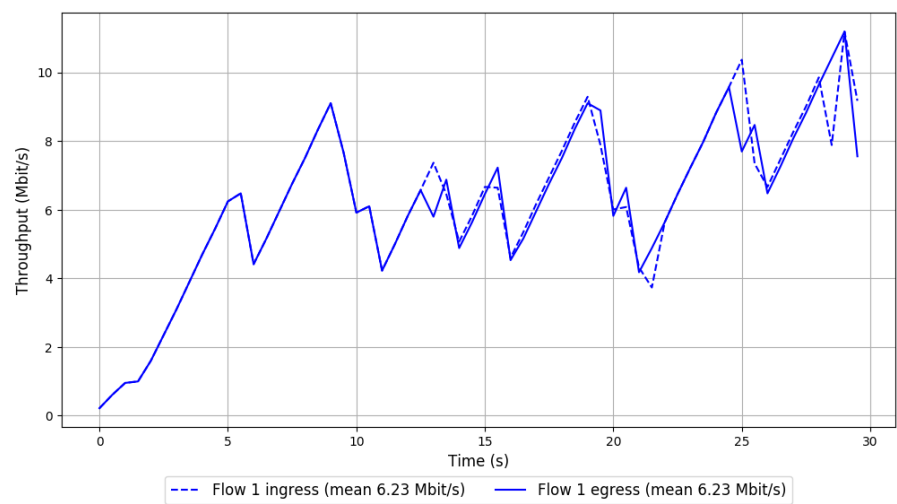
-- Flow 1:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 63.971 ms

Loss rate: 0.43%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-26 05:00:43

End at: 2018-01-26 05:01:13

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 63.994 ms

Loss rate: 0.35%

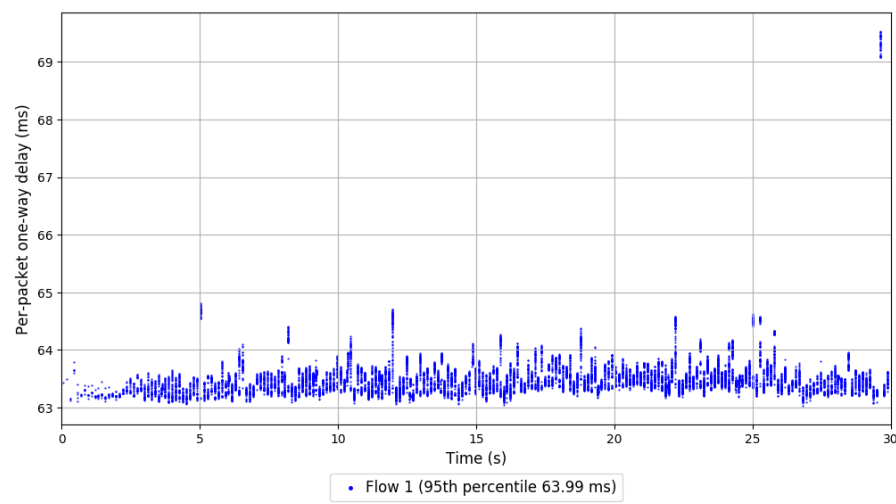
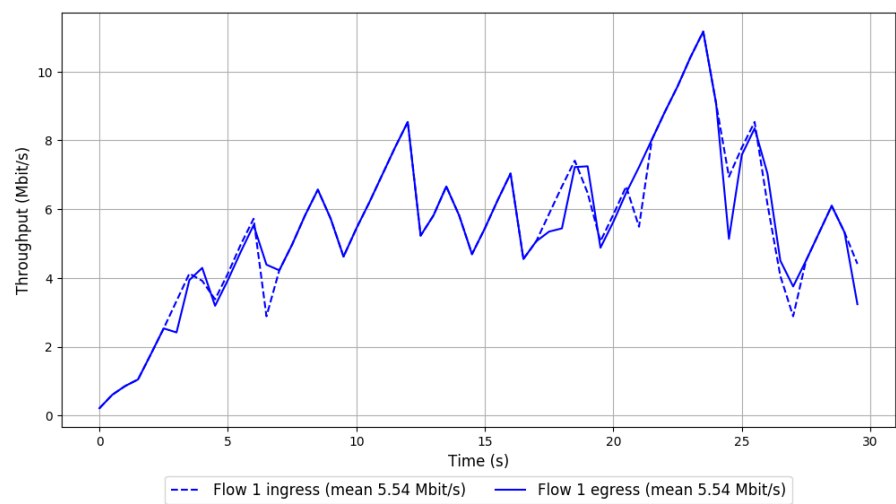
-- Flow 1:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 63.994 ms

Loss rate: 0.35%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-26 05:12:52

End at: 2018-01-26 05:13:22

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 62.144 ms

Loss rate: 1.02%

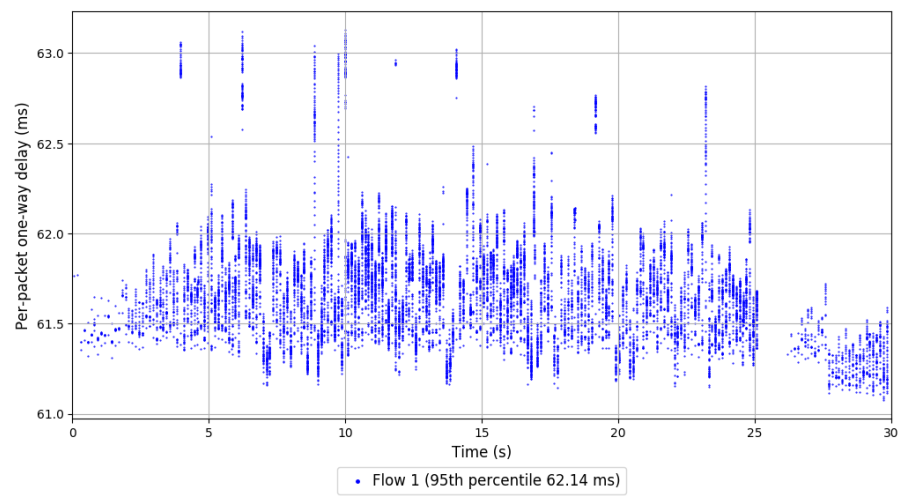
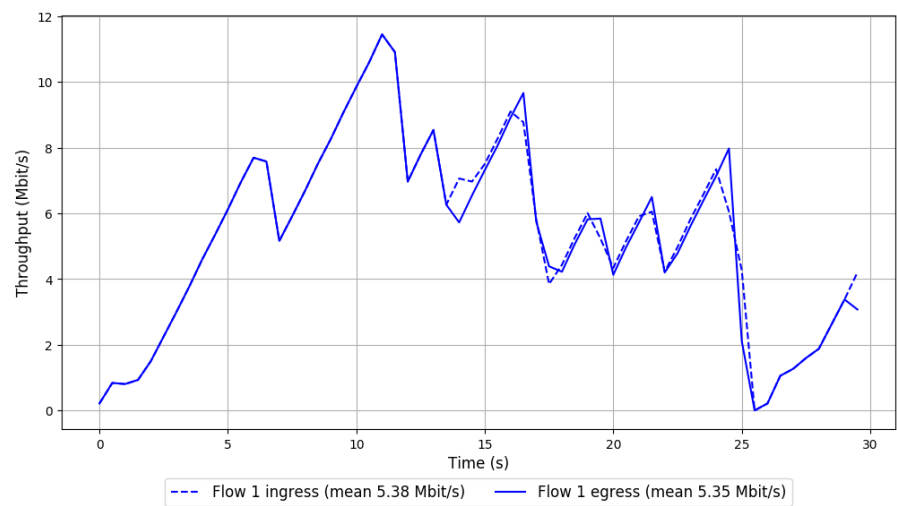
-- Flow 1:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 62.144 ms

Loss rate: 1.02%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-26 05:24:54

End at: 2018-01-26 05:25:24

Below is generated by plot.py at 2018-01-26 07:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 1.08%

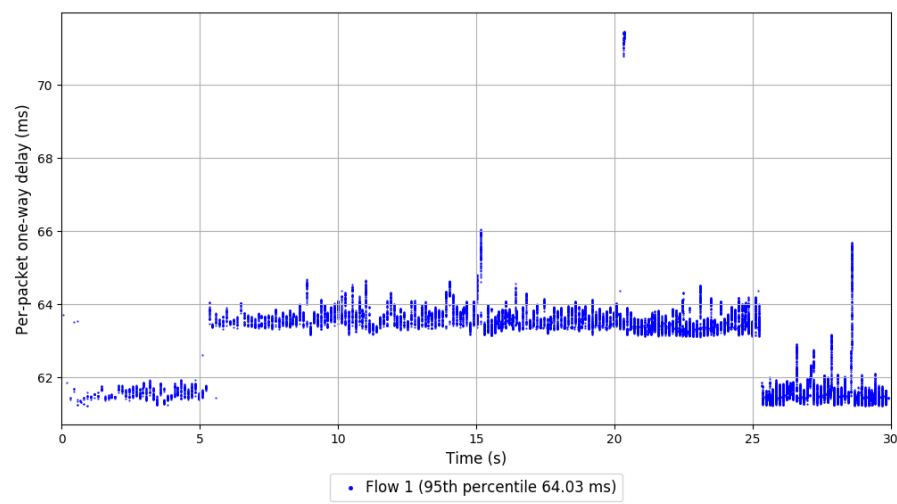
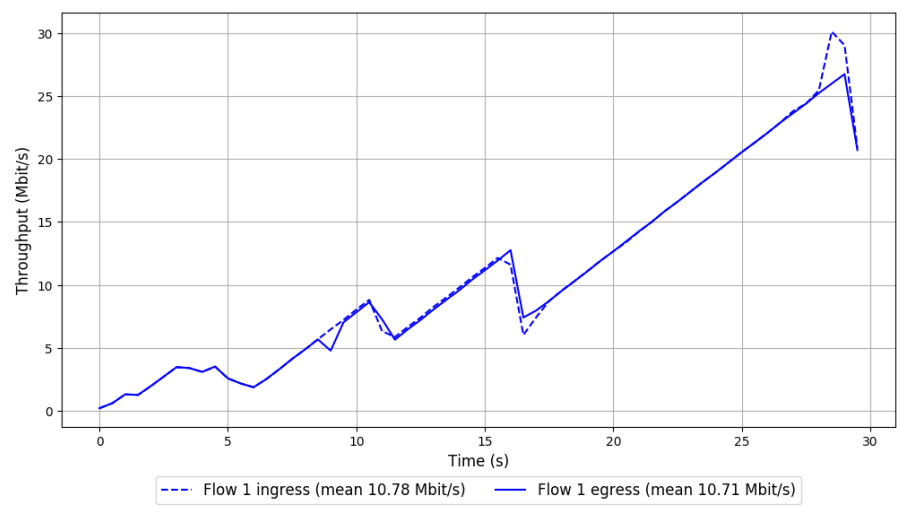
-- Flow 1:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 1.08%

Run 10: Report of LEDBAT — Data Link

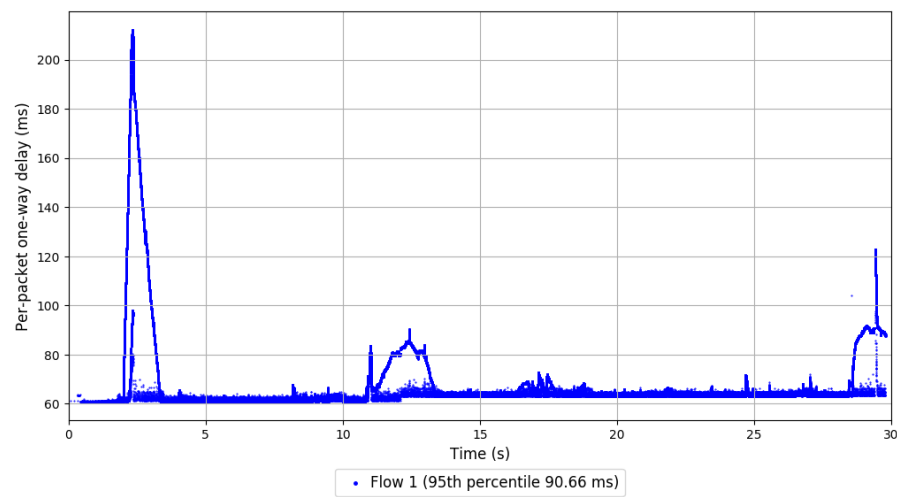
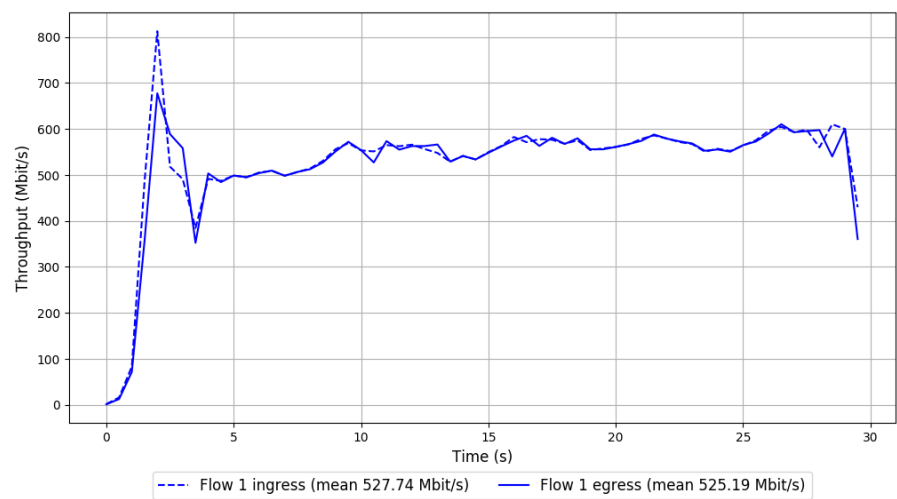


```
Run 1: Statistics of PCC

Start at: 2018-01-26 03:39:07
End at: 2018-01-26 03:39:37

# Below is generated by plot.py at 2018-01-26 07:51:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 525.19 Mbit/s
95th percentile per-packet one-way delay: 90.662 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 525.19 Mbit/s
95th percentile per-packet one-way delay: 90.662 ms
Loss rate: 0.89%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-26 03:51:17

End at: 2018-01-26 03:51:47

Below is generated by plot.py at 2018-01-26 07:51:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.03 Mbit/s

95th percentile per-packet one-way delay: 180.796 ms

Loss rate: 1.48%

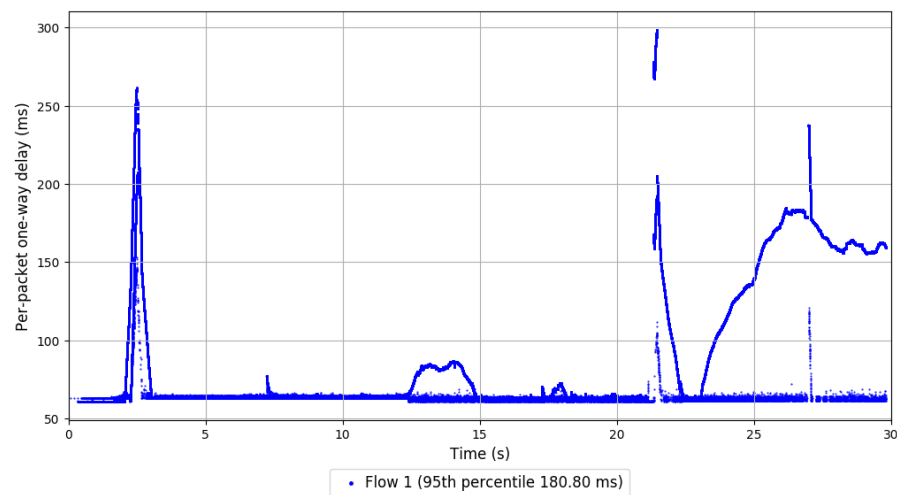
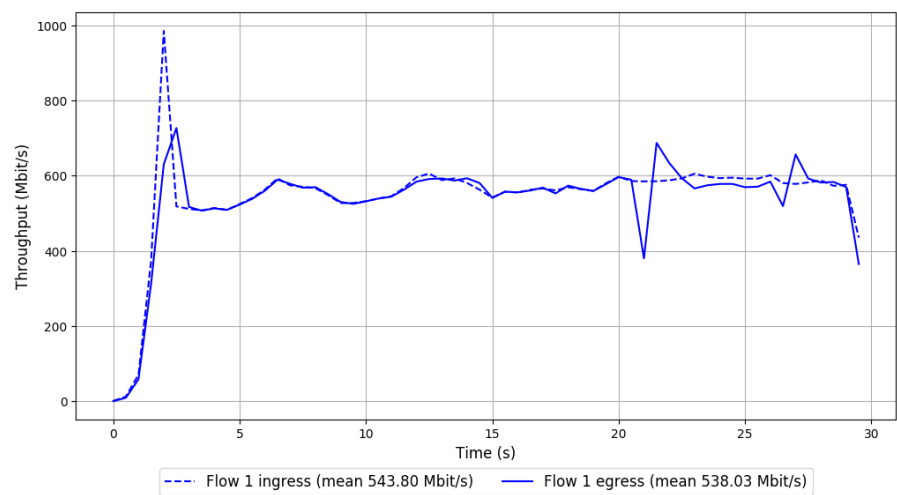
-- Flow 1:

Average throughput: 538.03 Mbit/s

95th percentile per-packet one-way delay: 180.796 ms

Loss rate: 1.48%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-26 04:03:28

End at: 2018-01-26 04:03:58

Below is generated by plot.py at 2018-01-26 07:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.25 Mbit/s

95th percentile per-packet one-way delay: 187.574 ms

Loss rate: 4.75%

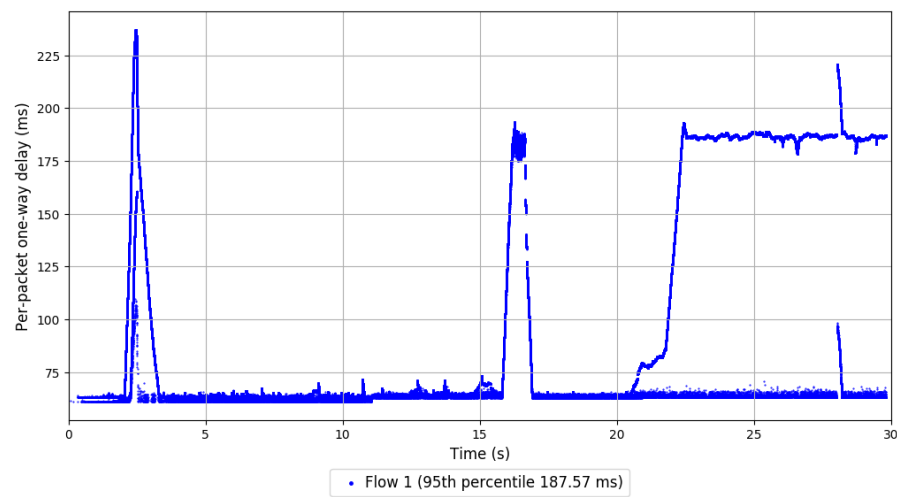
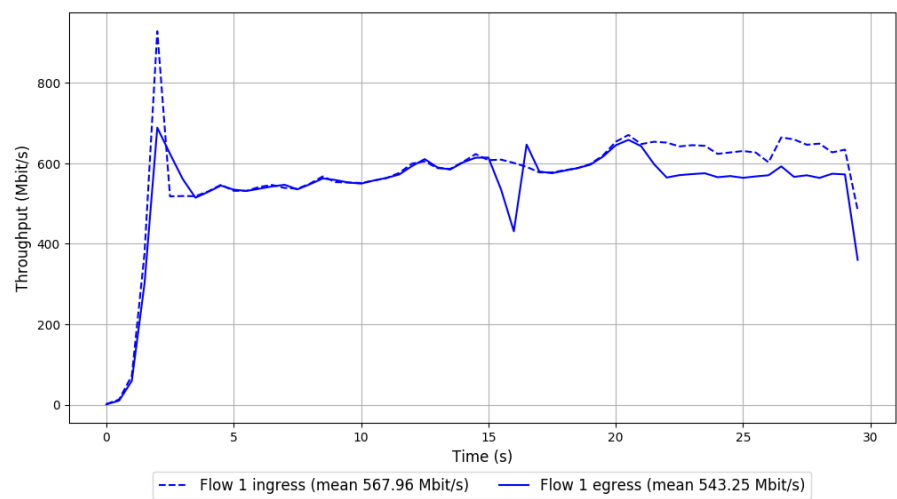
-- Flow 1:

Average throughput: 543.25 Mbit/s

95th percentile per-packet one-way delay: 187.574 ms

Loss rate: 4.75%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-26 04:15:47

End at: 2018-01-26 04:16:17

Below is generated by plot.py at 2018-01-26 07:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.49 Mbit/s

95th percentile per-packet one-way delay: 88.566 ms

Loss rate: 0.84%

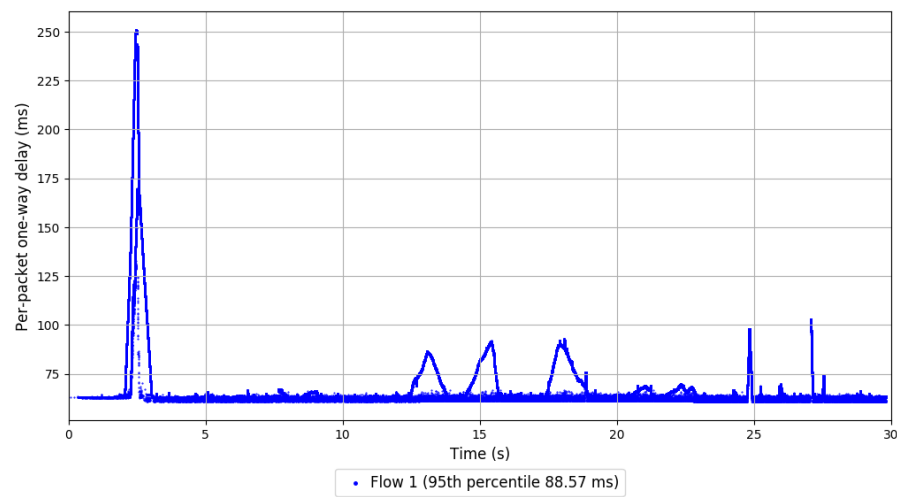
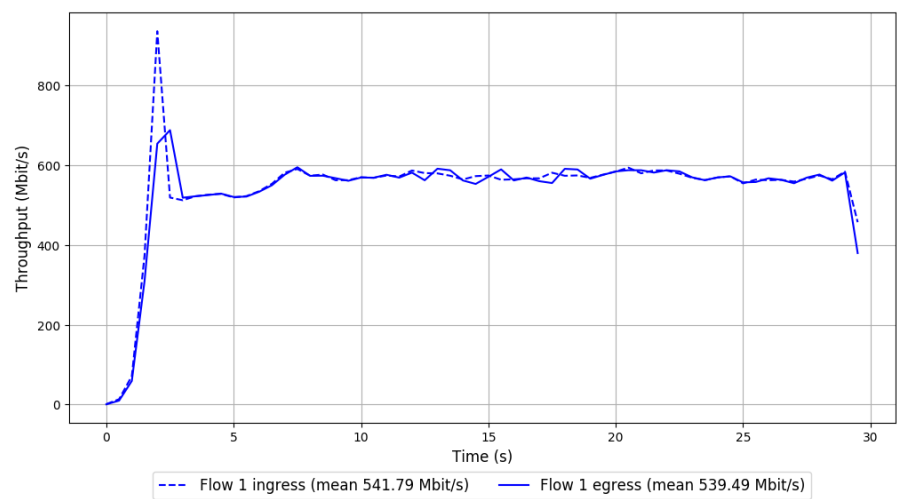
-- Flow 1:

Average throughput: 539.49 Mbit/s

95th percentile per-packet one-way delay: 88.566 ms

Loss rate: 0.84%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-26 04:28:07

End at: 2018-01-26 04:28:37

Below is generated by plot.py at 2018-01-26 07:52:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.78 Mbit/s

95th percentile per-packet one-way delay: 103.882 ms

Loss rate: 1.21%

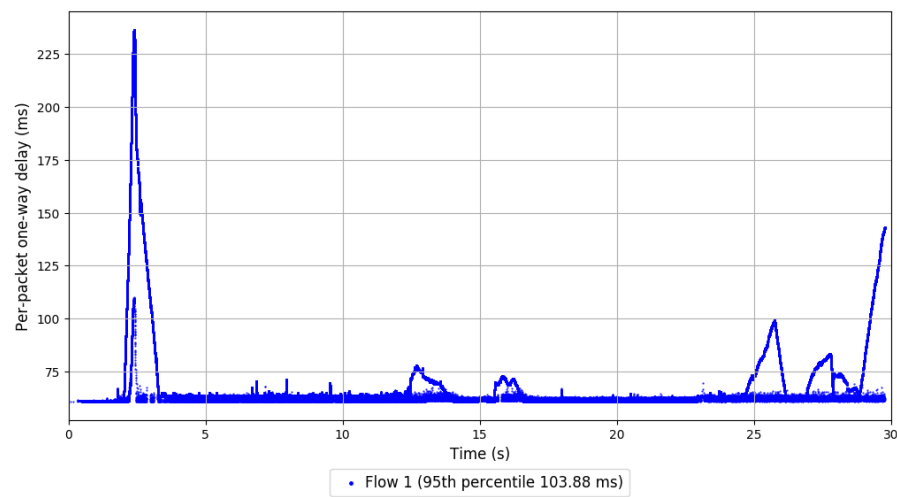
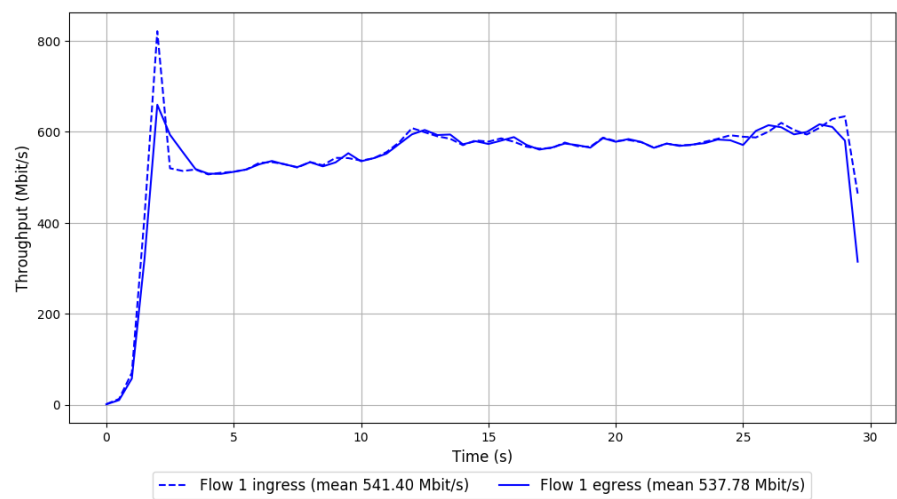
-- Flow 1:

Average throughput: 537.78 Mbit/s

95th percentile per-packet one-way delay: 103.882 ms

Loss rate: 1.21%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-26 04:40:14

End at: 2018-01-26 04:40:44

Below is generated by plot.py at 2018-01-26 07:53:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.19 Mbit/s

95th percentile per-packet one-way delay: 132.995 ms

Loss rate: 0.99%

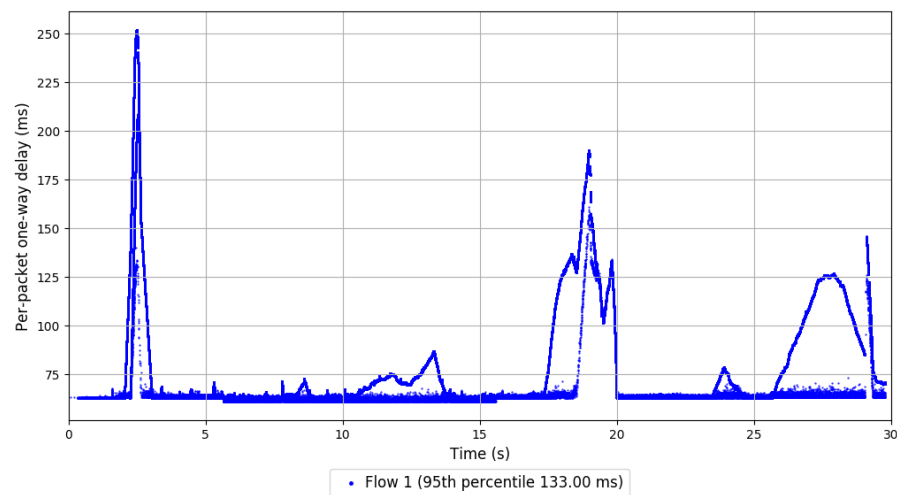
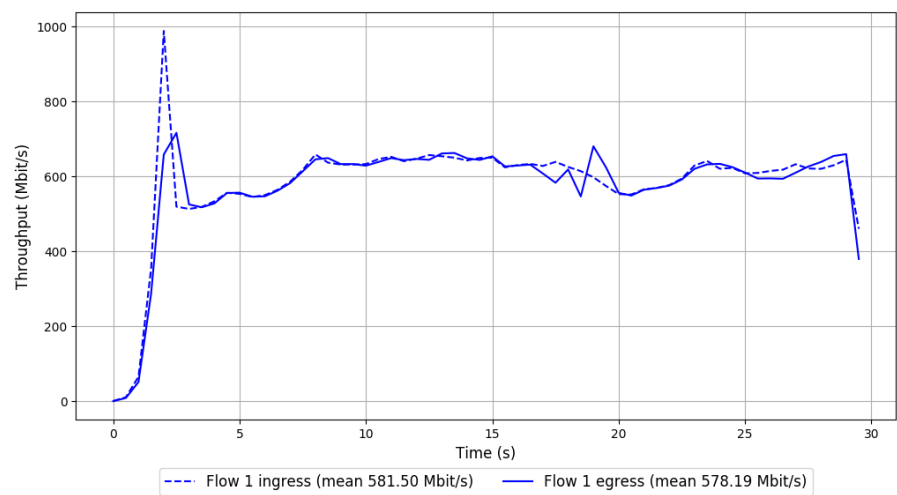
-- Flow 1:

Average throughput: 578.19 Mbit/s

95th percentile per-packet one-way delay: 132.995 ms

Loss rate: 0.99%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-26 04:52:20

End at: 2018-01-26 04:52:50

Below is generated by plot.py at 2018-01-26 07:53:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.18 Mbit/s

95th percentile per-packet one-way delay: 135.493 ms

Loss rate: 0.88%

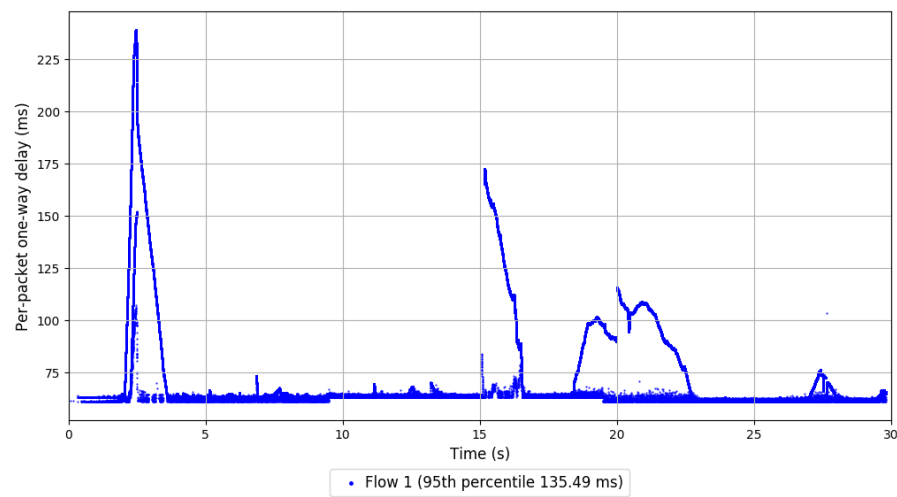
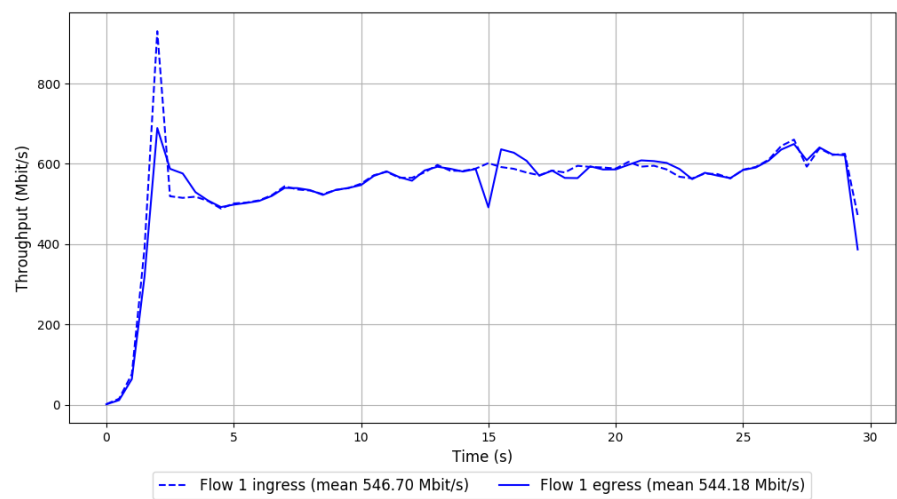
-- Flow 1:

Average throughput: 544.18 Mbit/s

95th percentile per-packet one-way delay: 135.493 ms

Loss rate: 0.88%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-26 05:04:29

End at: 2018-01-26 05:04:59

Below is generated by plot.py at 2018-01-26 07:53:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.97 Mbit/s

95th percentile per-packet one-way delay: 179.818 ms

Loss rate: 1.08%

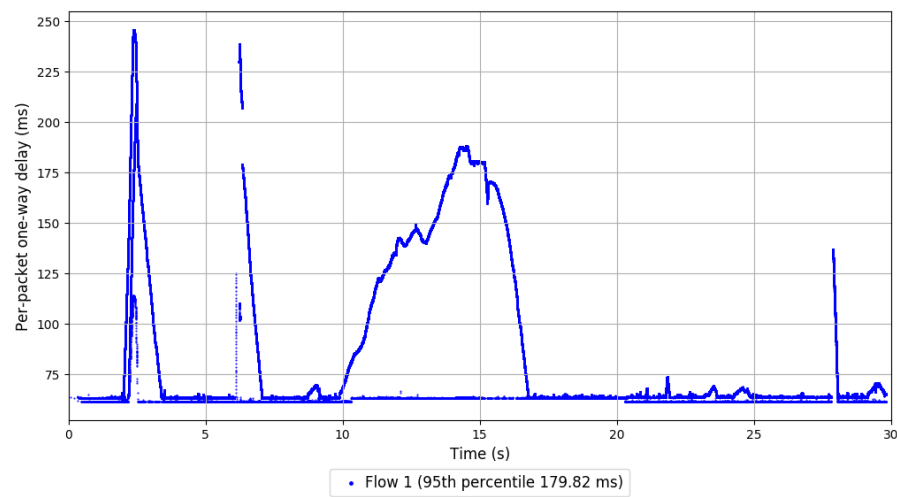
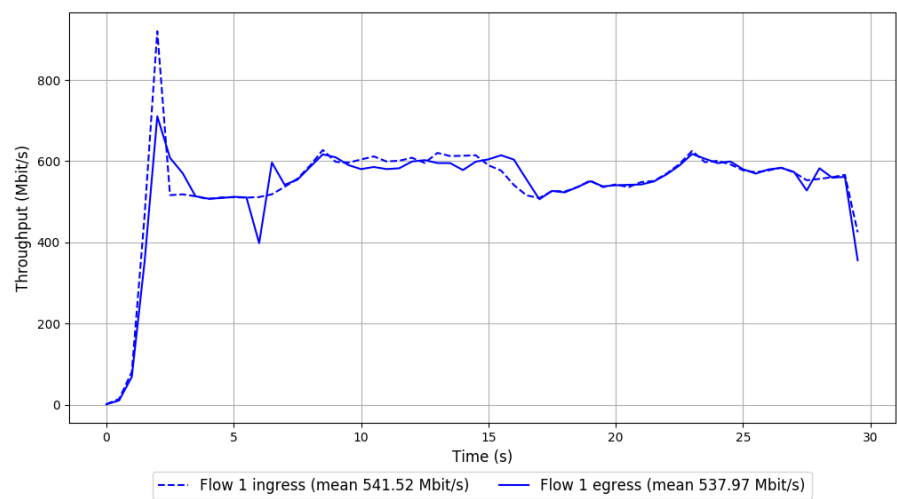
-- Flow 1:

Average throughput: 537.97 Mbit/s

95th percentile per-packet one-way delay: 179.818 ms

Loss rate: 1.08%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-26 05:16:39

End at: 2018-01-26 05:17:09

Below is generated by plot.py at 2018-01-26 08:01:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.97 Mbit/s

95th percentile per-packet one-way delay: 184.419 ms

Loss rate: 1.60%

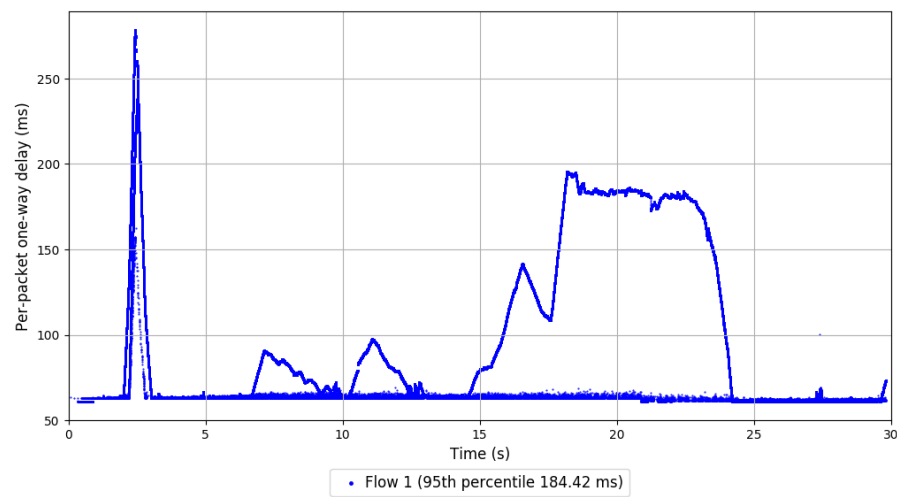
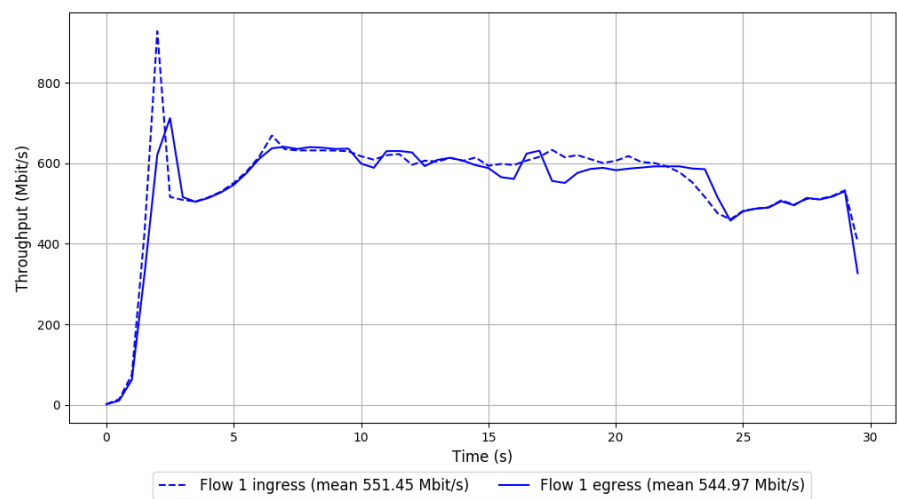
-- Flow 1:

Average throughput: 544.97 Mbit/s

95th percentile per-packet one-way delay: 184.419 ms

Loss rate: 1.60%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-26 05:28:38

End at: 2018-01-26 05:29:08

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 574.35 Mbit/s

95th percentile per-packet one-way delay: 113.719 ms

Loss rate: 0.85%

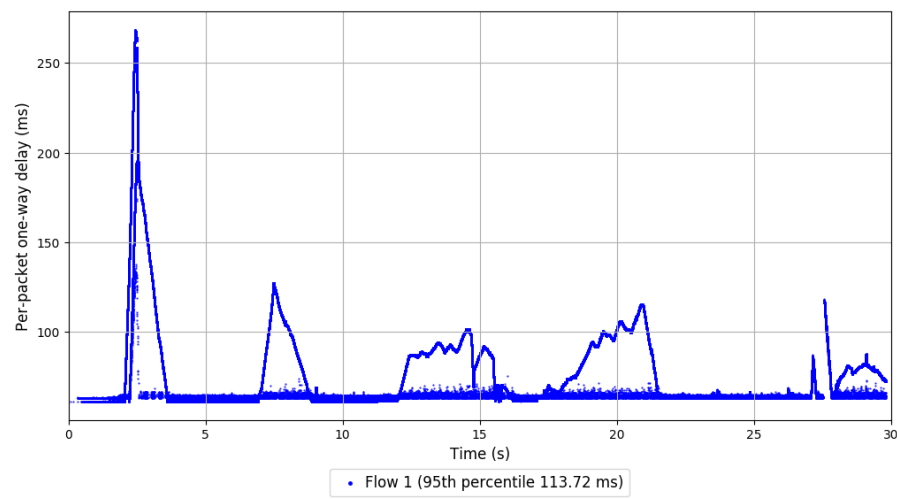
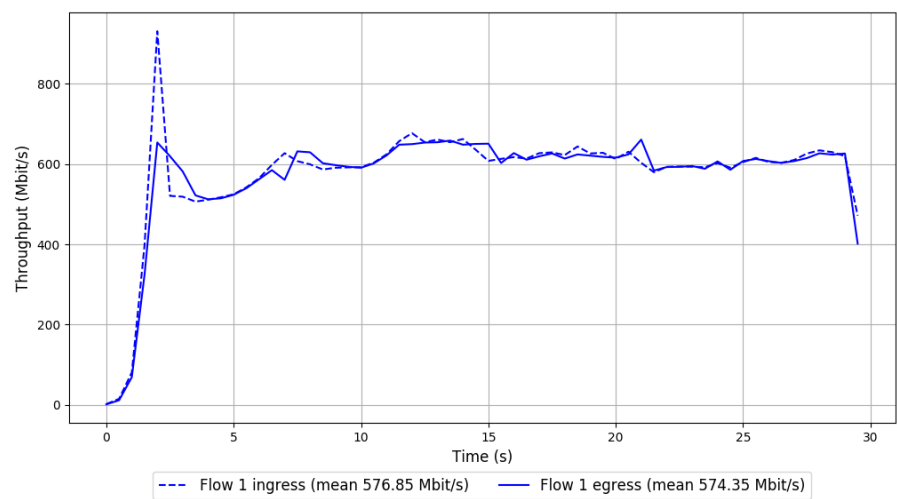
-- Flow 1:

Average throughput: 574.35 Mbit/s

95th percentile per-packet one-way delay: 113.719 ms

Loss rate: 0.85%

Run 10: Report of PCC — Data Link

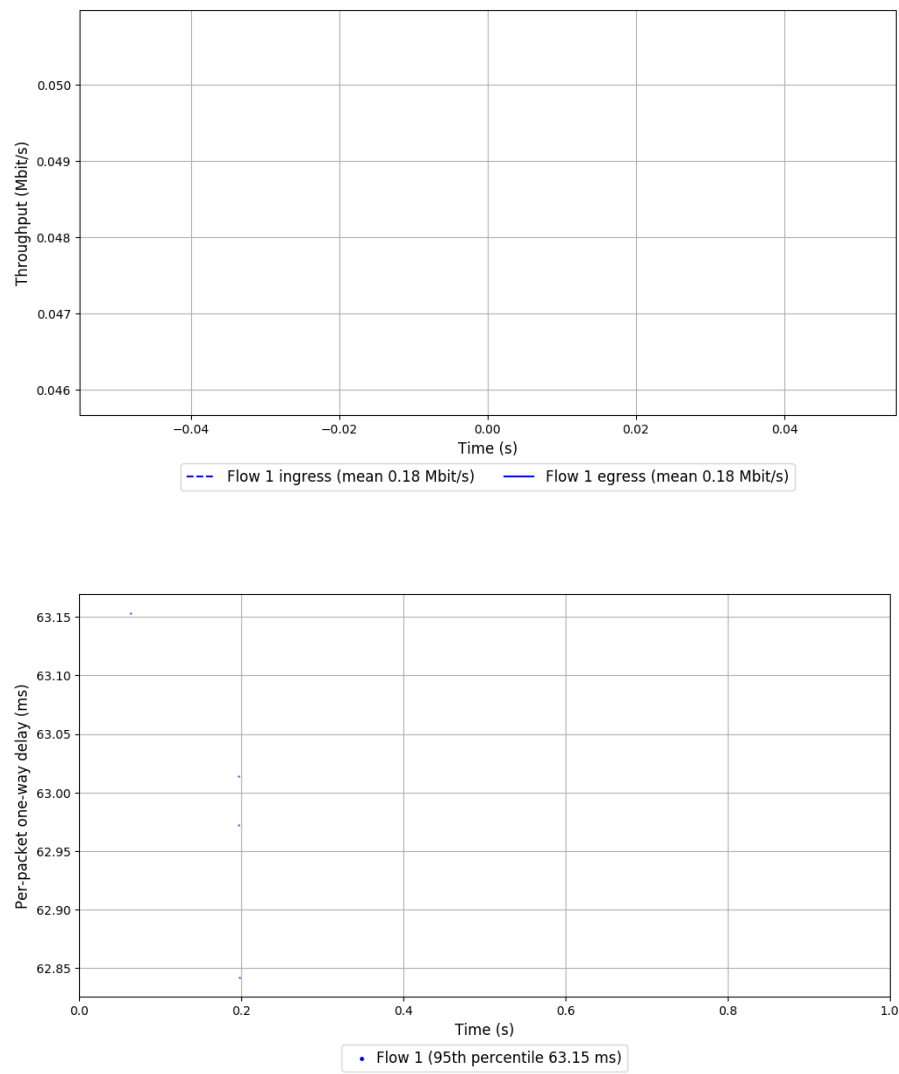


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 03:30:22

End at: 2018-01-26 03:30:52

Run 1: Report of QUIC Cubic — Data Link

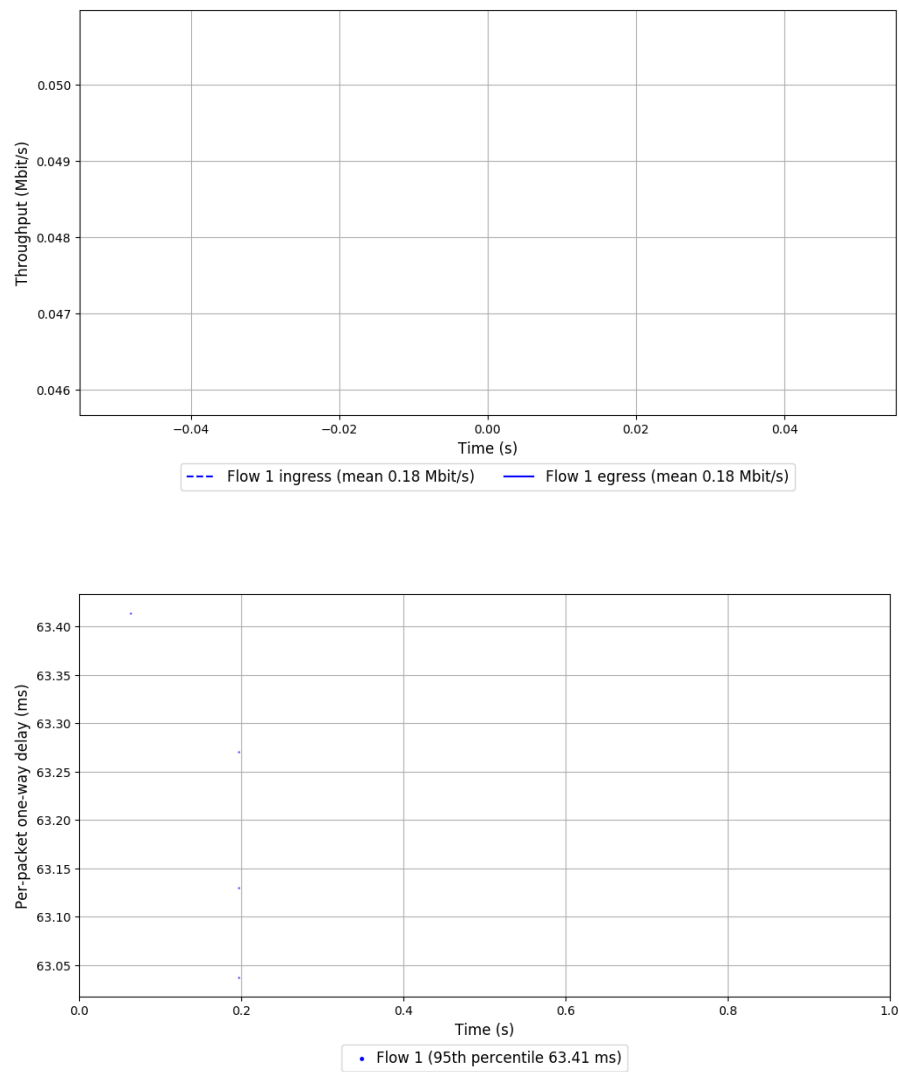


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 03:42:21

End at: 2018-01-26 03:42:51

Run 2: Report of QUIC Cubic — Data Link

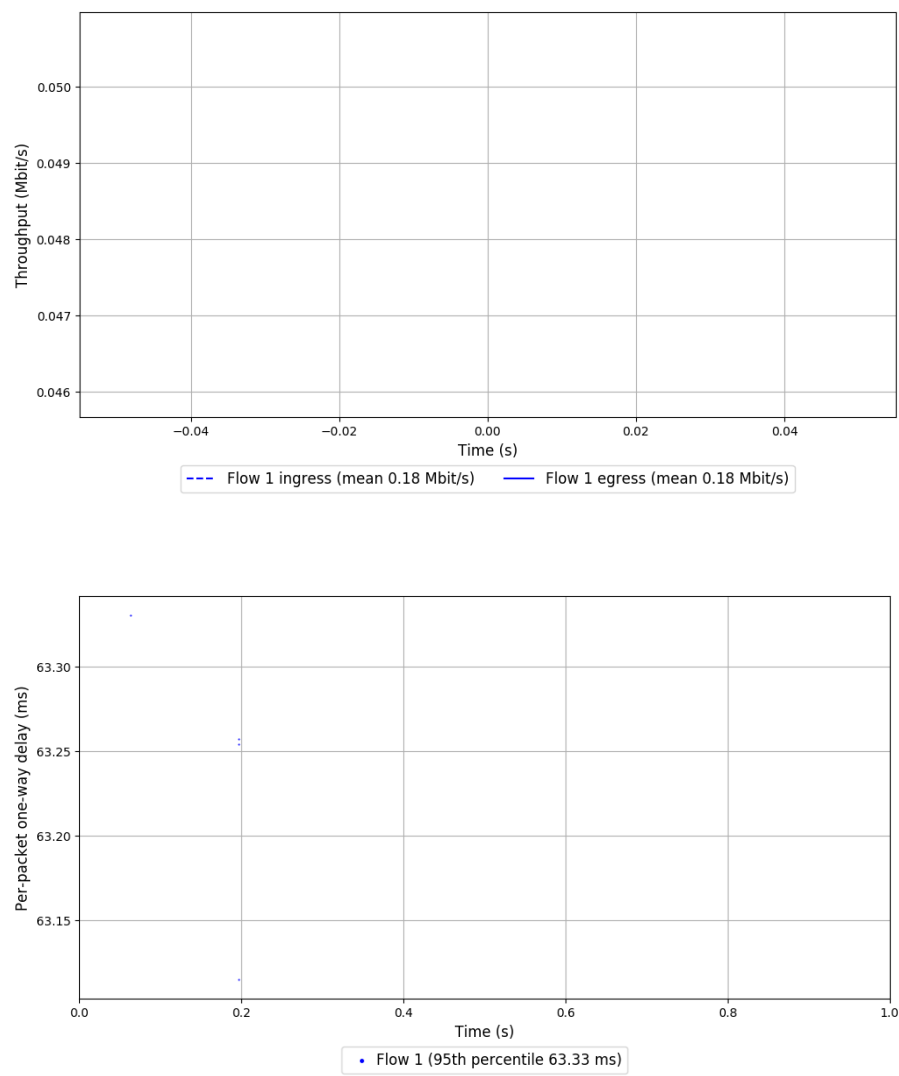


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 03:54:31

End at: 2018-01-26 03:55:01

Run 3: Report of QUIC Cubic — Data Link

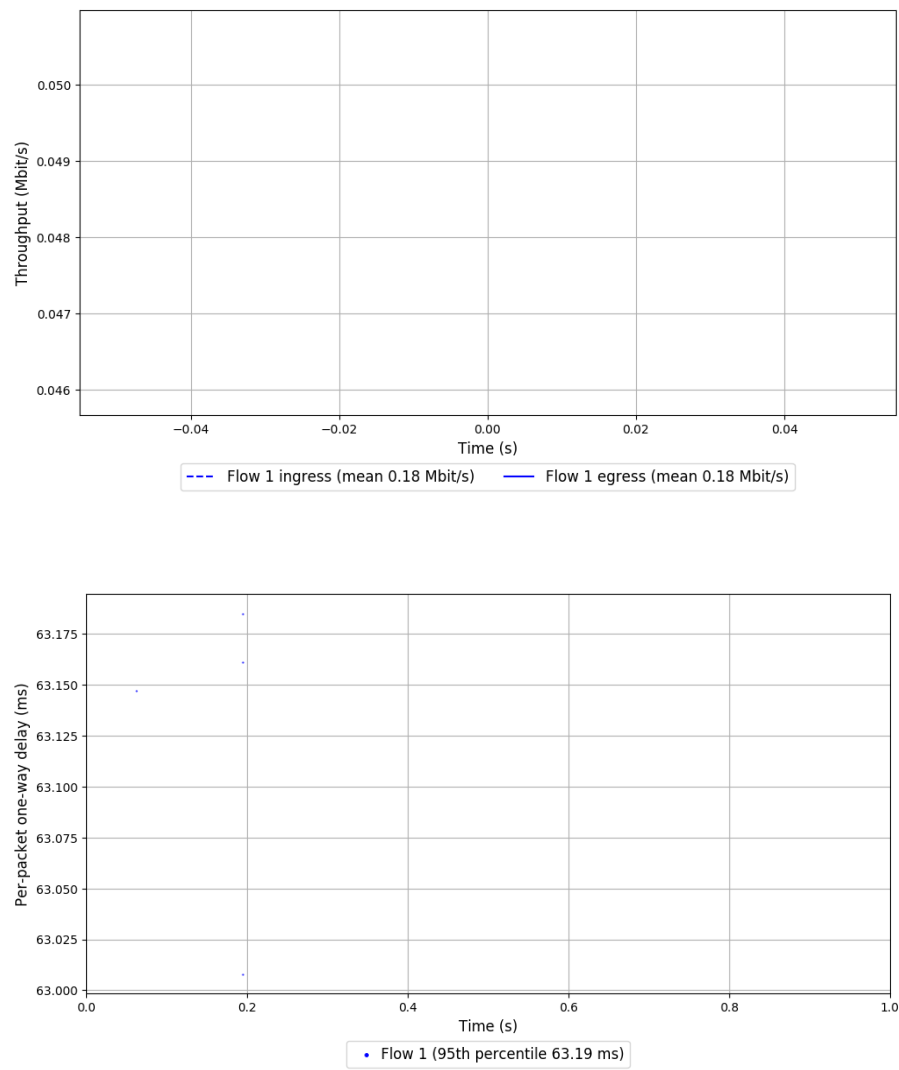


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 04:06:45

End at: 2018-01-26 04:07:15

Run 4: Report of QUIC Cubic — Data Link

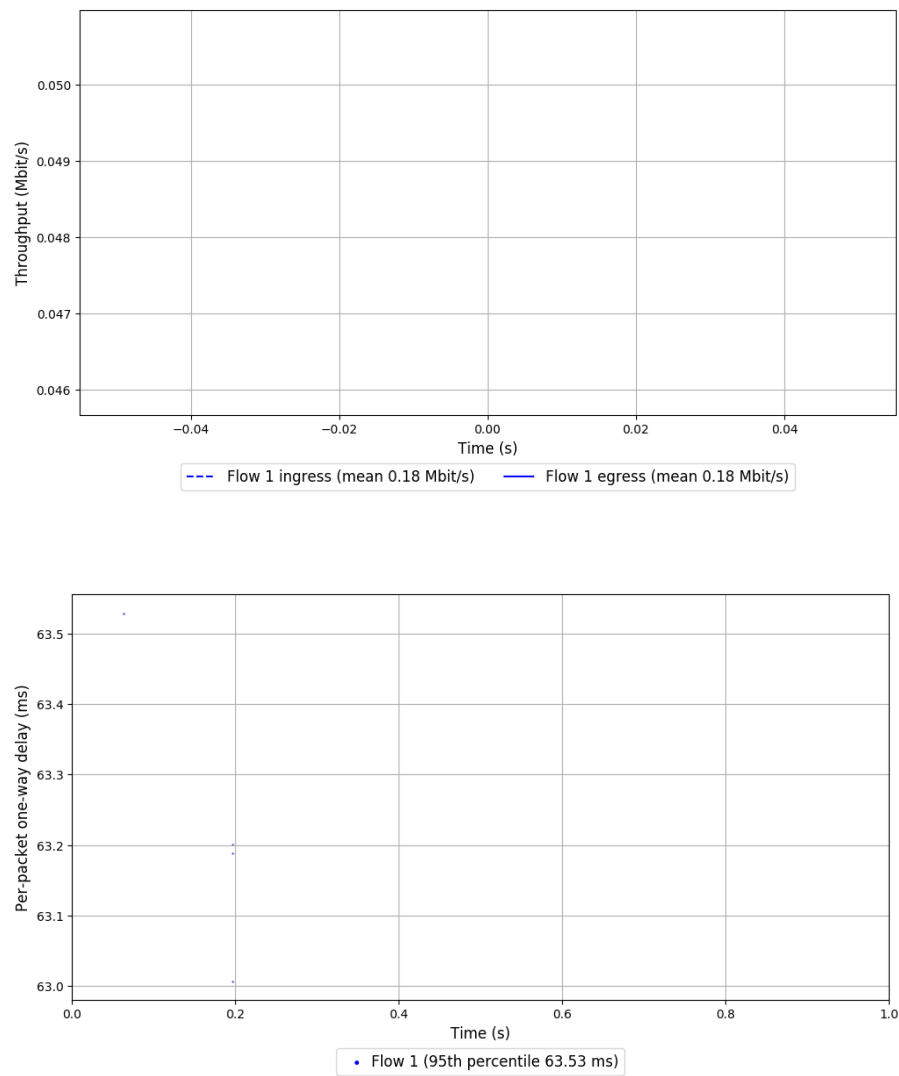


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 04:19:02

End at: 2018-01-26 04:19:32

Run 5: Report of QUIC Cubic — Data Link

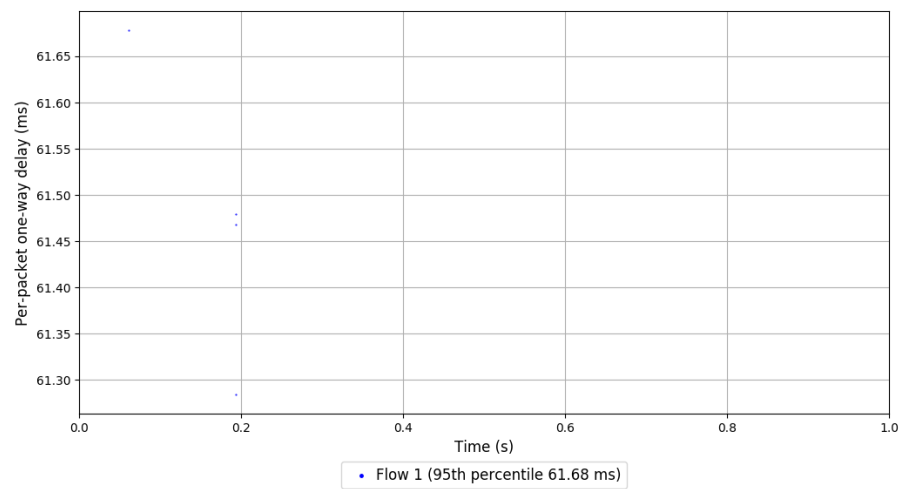
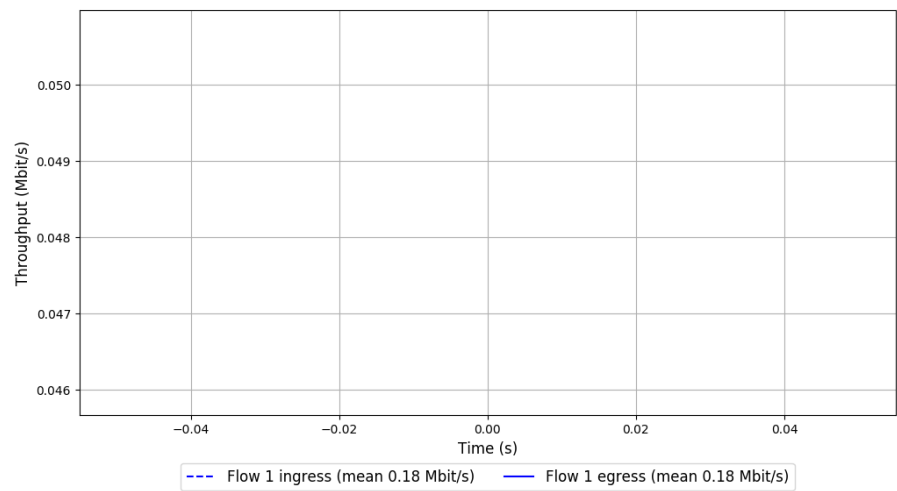


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 04:31:20

End at: 2018-01-26 04:31:50

Run 6: Report of QUIC Cubic — Data Link

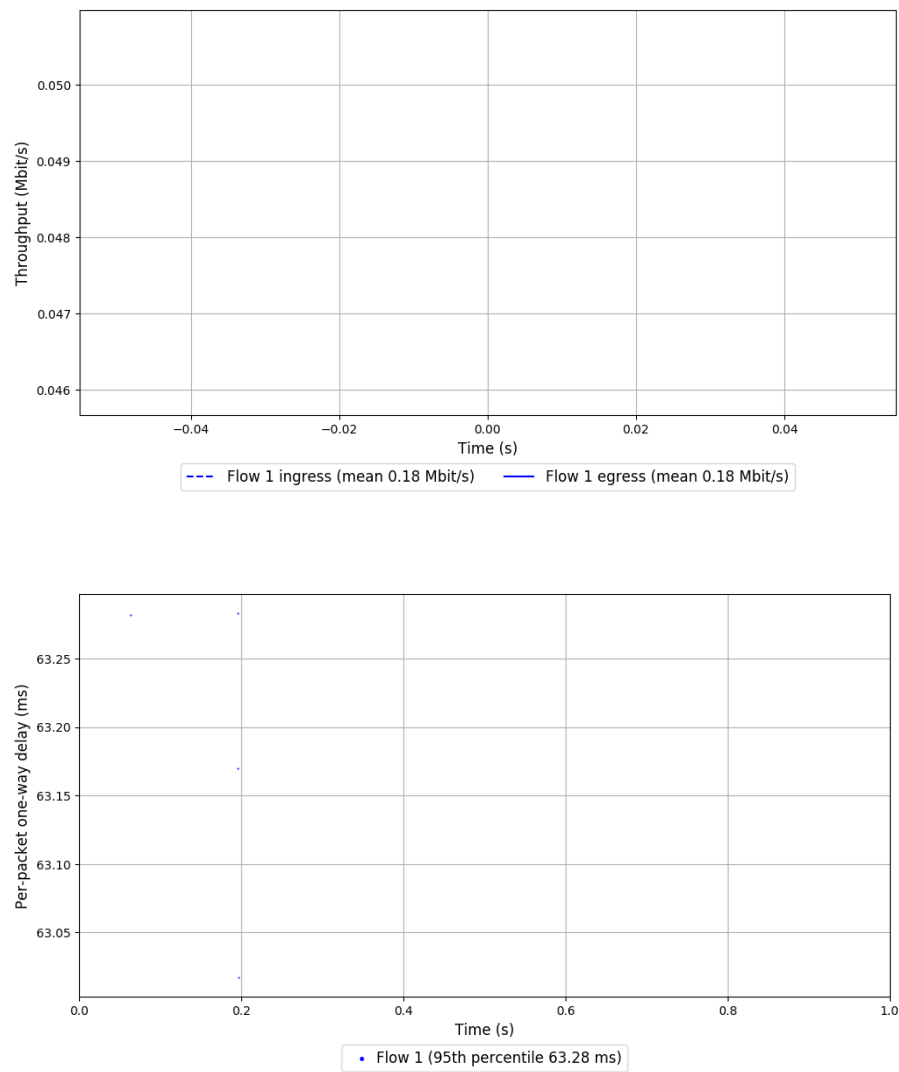


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 04:43:30

End at: 2018-01-26 04:44:00

Run 7: Report of QUIC Cubic — Data Link

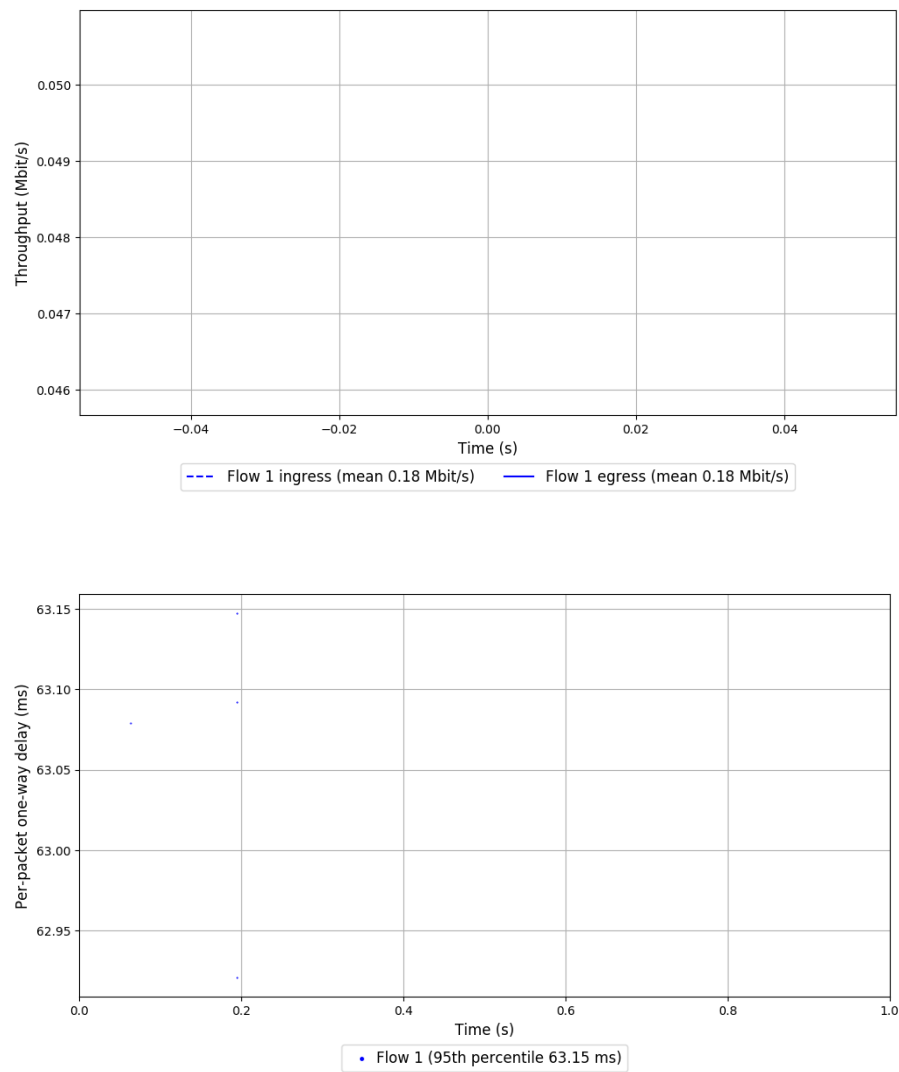


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 04:55:25

End at: 2018-01-26 04:55:55

Run 8: Report of QUIC Cubic — Data Link

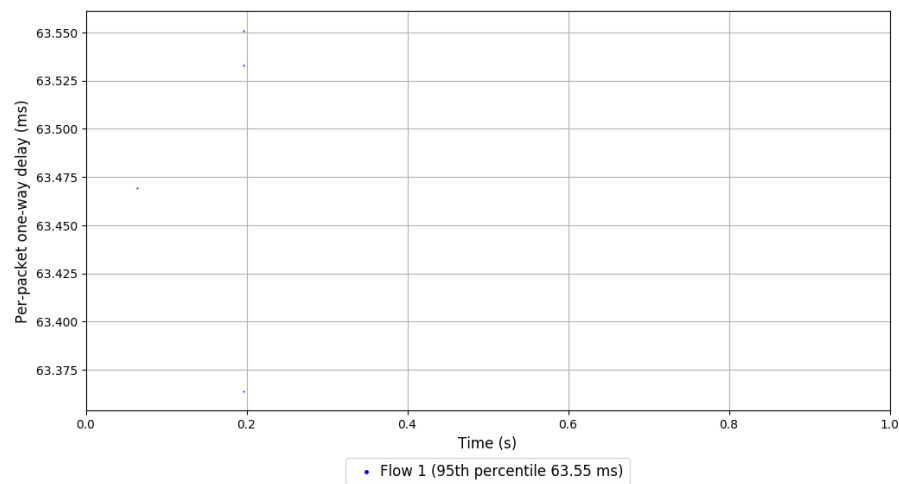
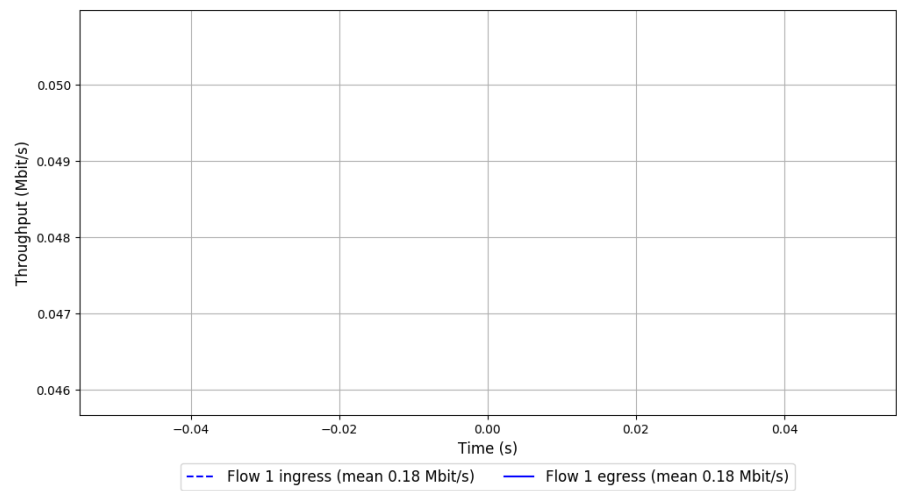


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 05:07:44

End at: 2018-01-26 05:08:14

Run 9: Report of QUIC Cubic — Data Link

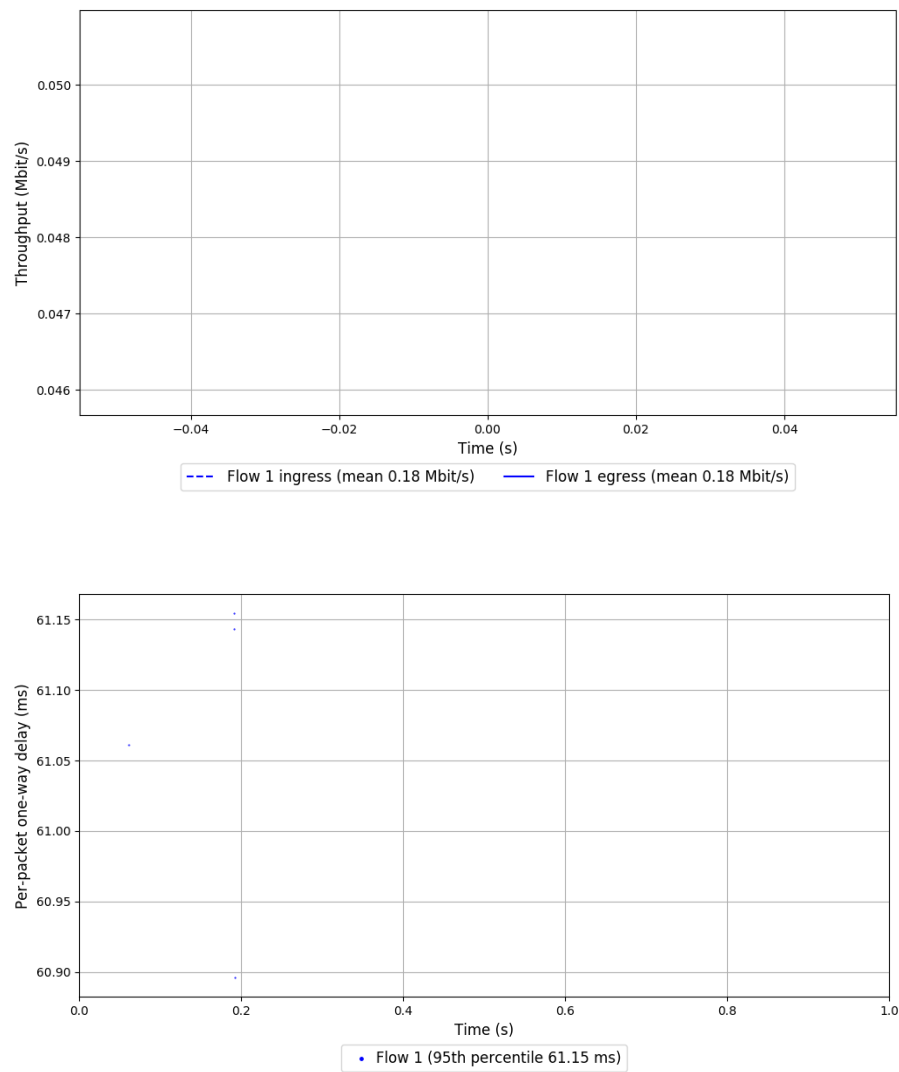


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 05:19:55

End at: 2018-01-26 05:20:25

Run 10: Report of QUIC Cubic — Data Link

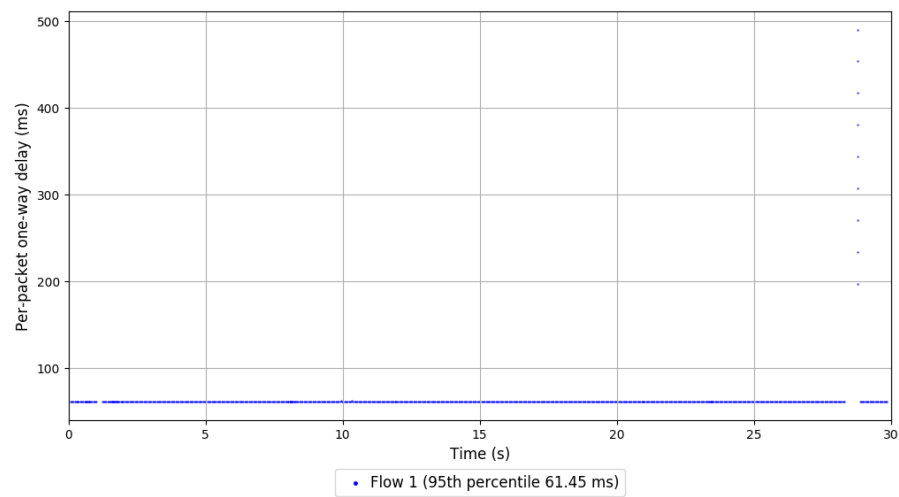
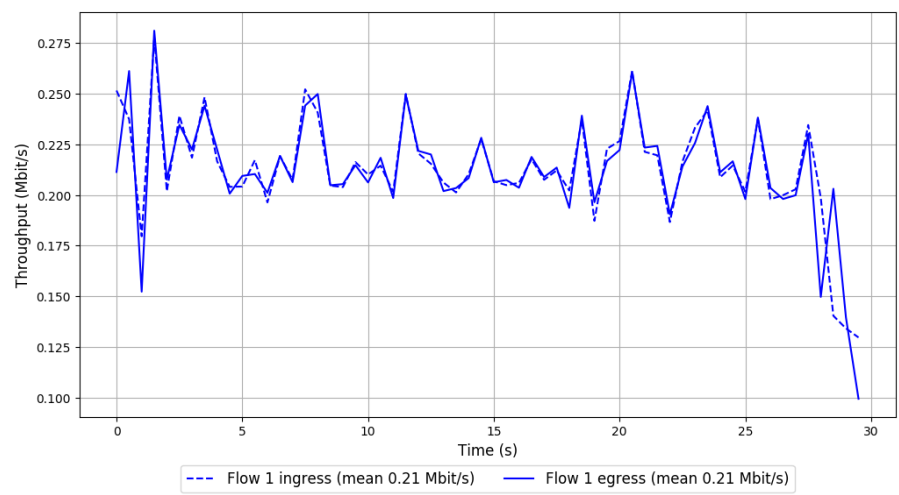


```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 03:34:10
End at: 2018-01-26 03:34:40

# Below is generated by plot.py at 2018-01-26 08:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 61.448 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 61.448 ms
Loss rate: 0.39%
```

Run 1: Report of SReAM — Data Link

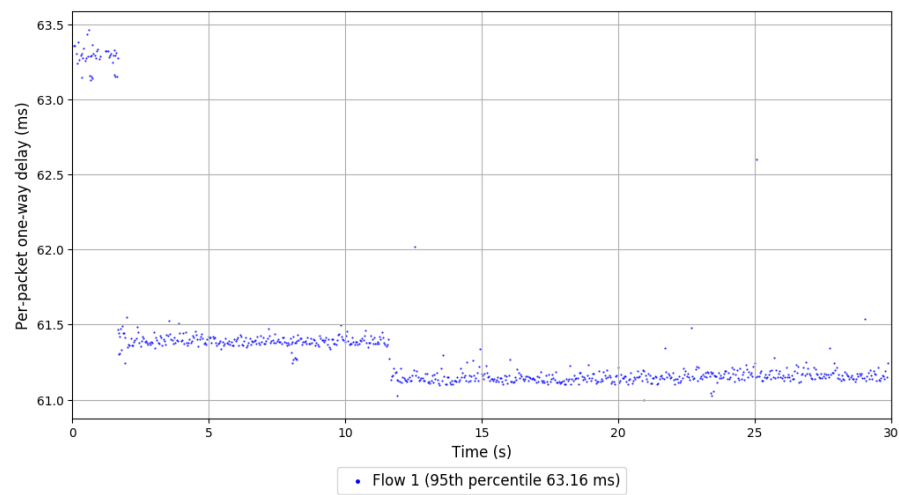
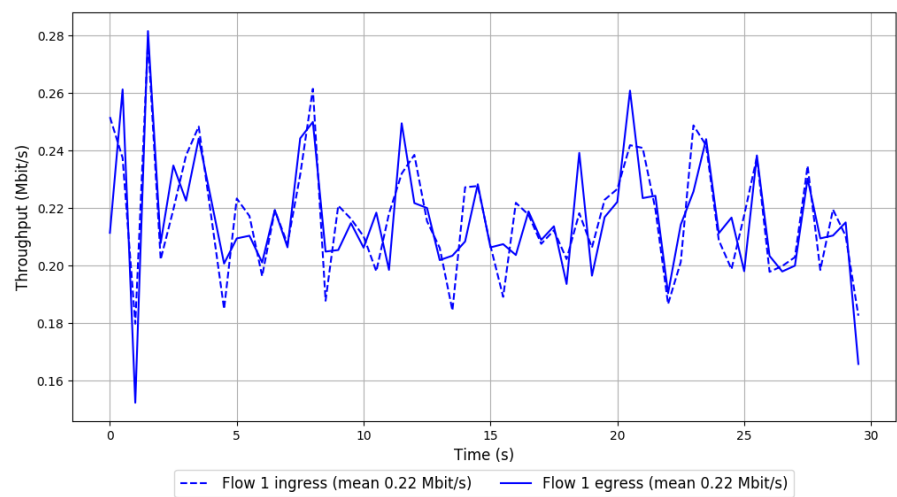


```
Run 2: Statistics of SCReAM

Start at: 2018-01-26 03:46:18
End at: 2018-01-26 03:46:48

# Below is generated by plot.py at 2018-01-26 08:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.157 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.157 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-26 03:58:33

End at: 2018-01-26 03:59:03

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.264 ms

Loss rate: 0.38%

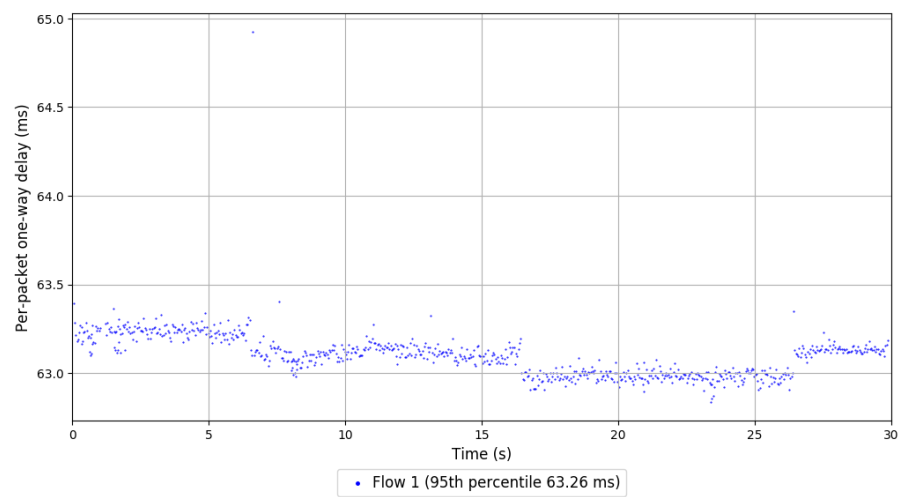
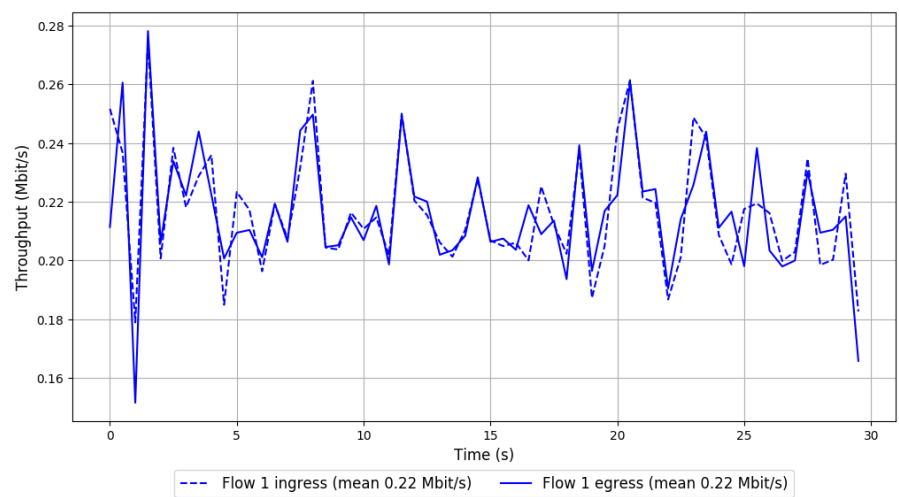
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.264 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-26 04:10:49

End at: 2018-01-26 04:11:19

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.213 ms

Loss rate: 0.38%

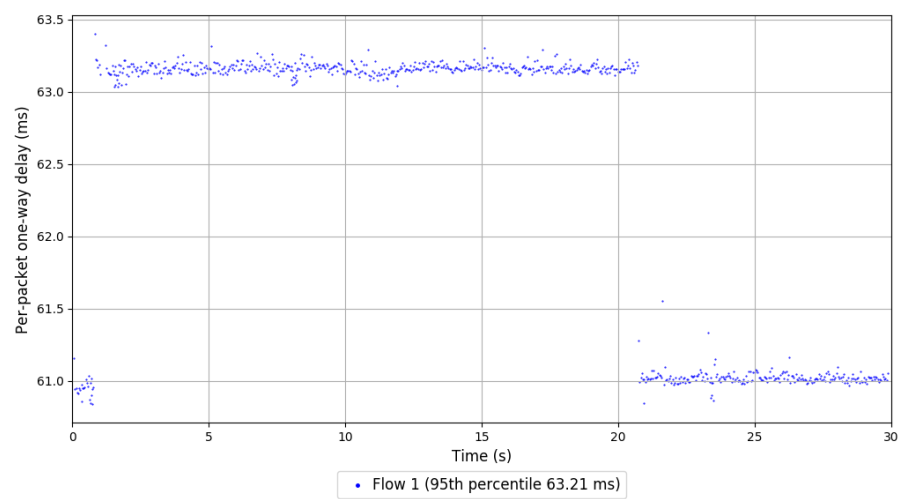
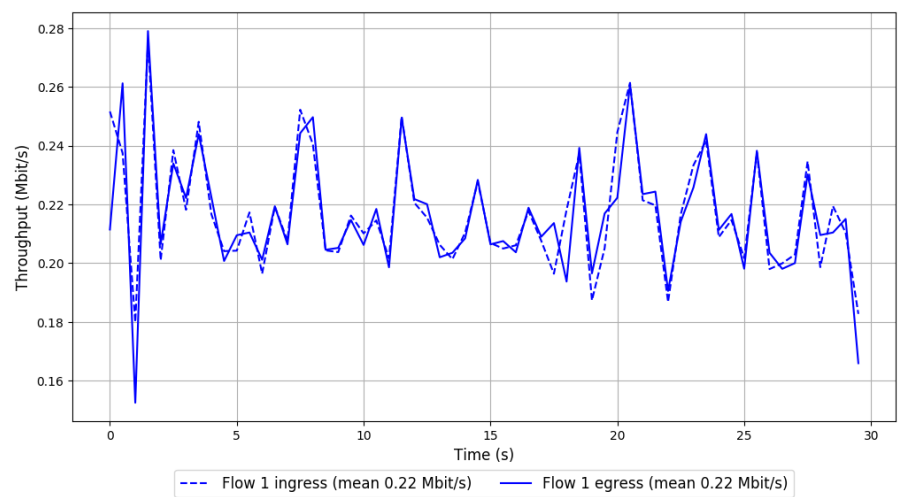
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.213 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-26 04:23:09

End at: 2018-01-26 04:23:39

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.212 ms

Loss rate: 0.38%

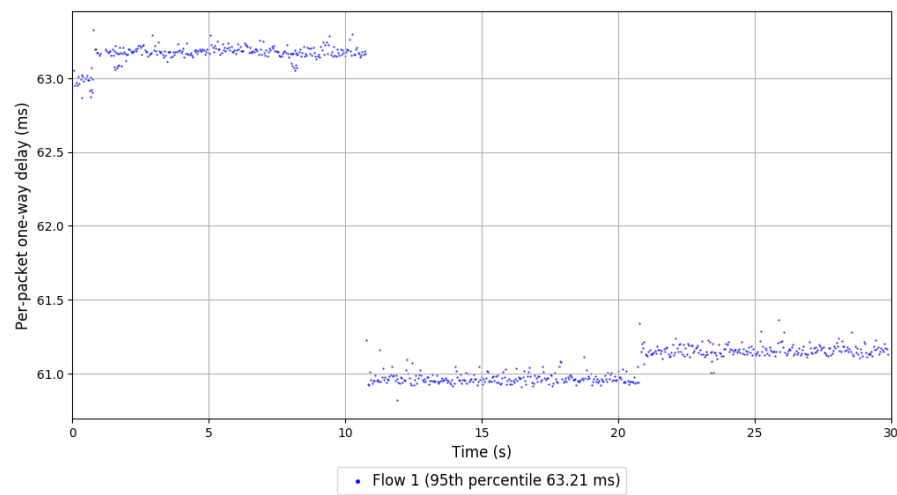
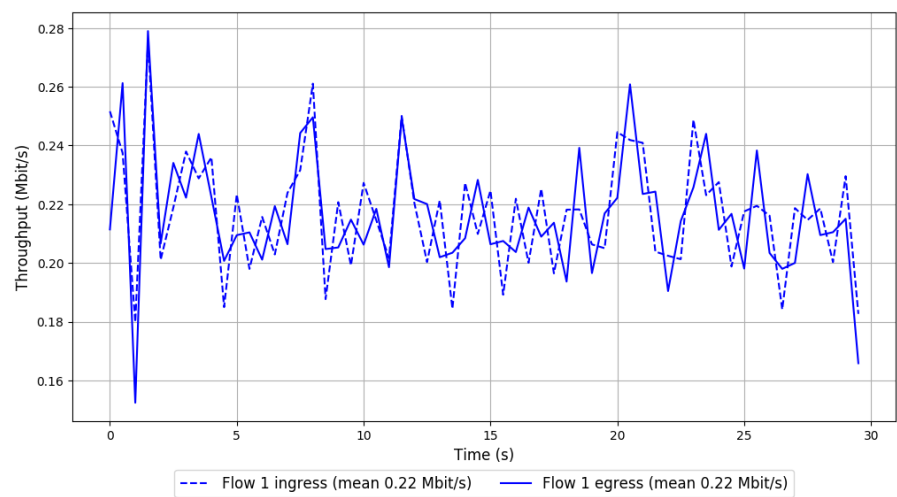
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.212 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-26 04:35:17

End at: 2018-01-26 04:35:47

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.401 ms

Loss rate: 0.38%

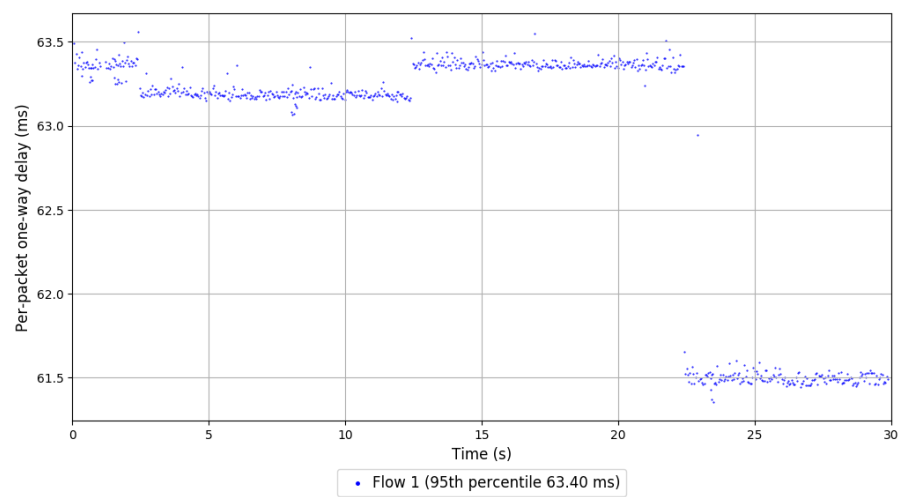
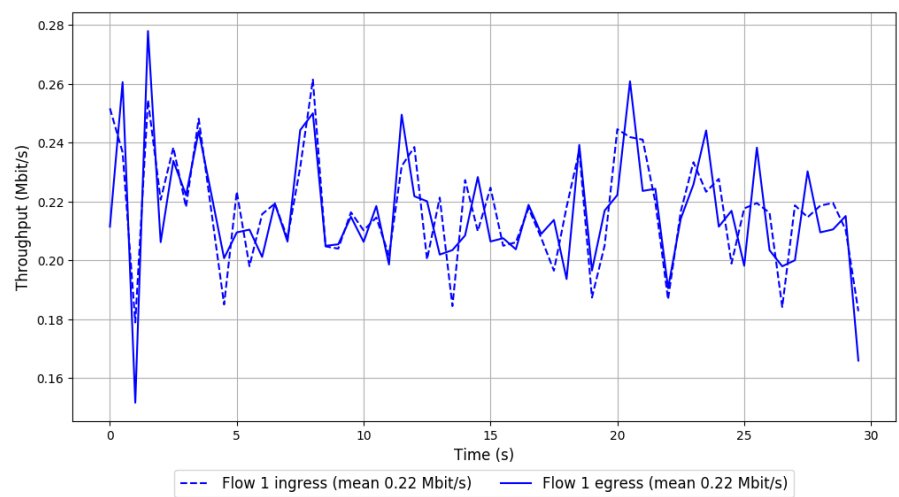
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.401 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-26 04:47:25

End at: 2018-01-26 04:47:55

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.369 ms

Loss rate: 0.38%

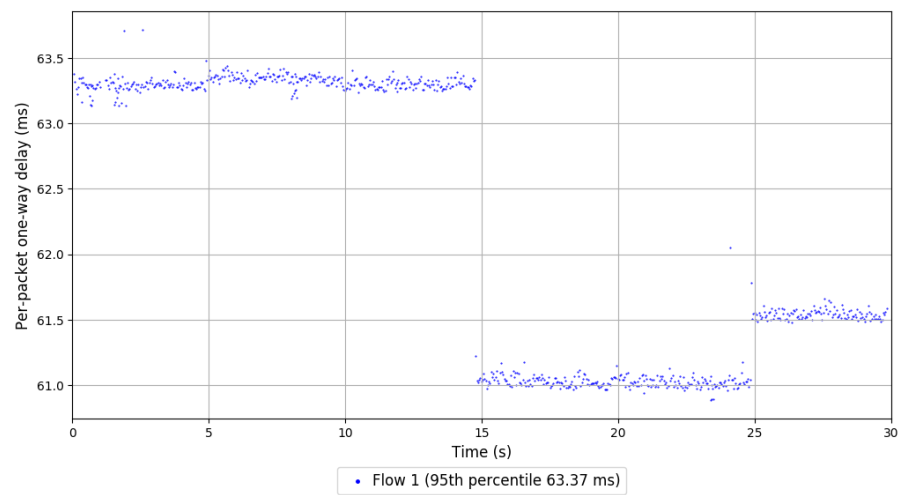
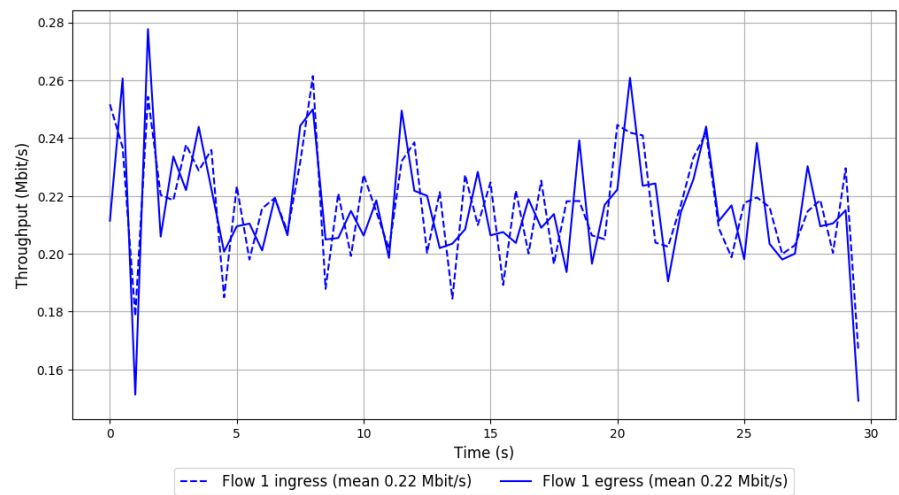
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.369 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-26 04:59:28

End at: 2018-01-26 04:59:58

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.349 ms

Loss rate: 0.38%

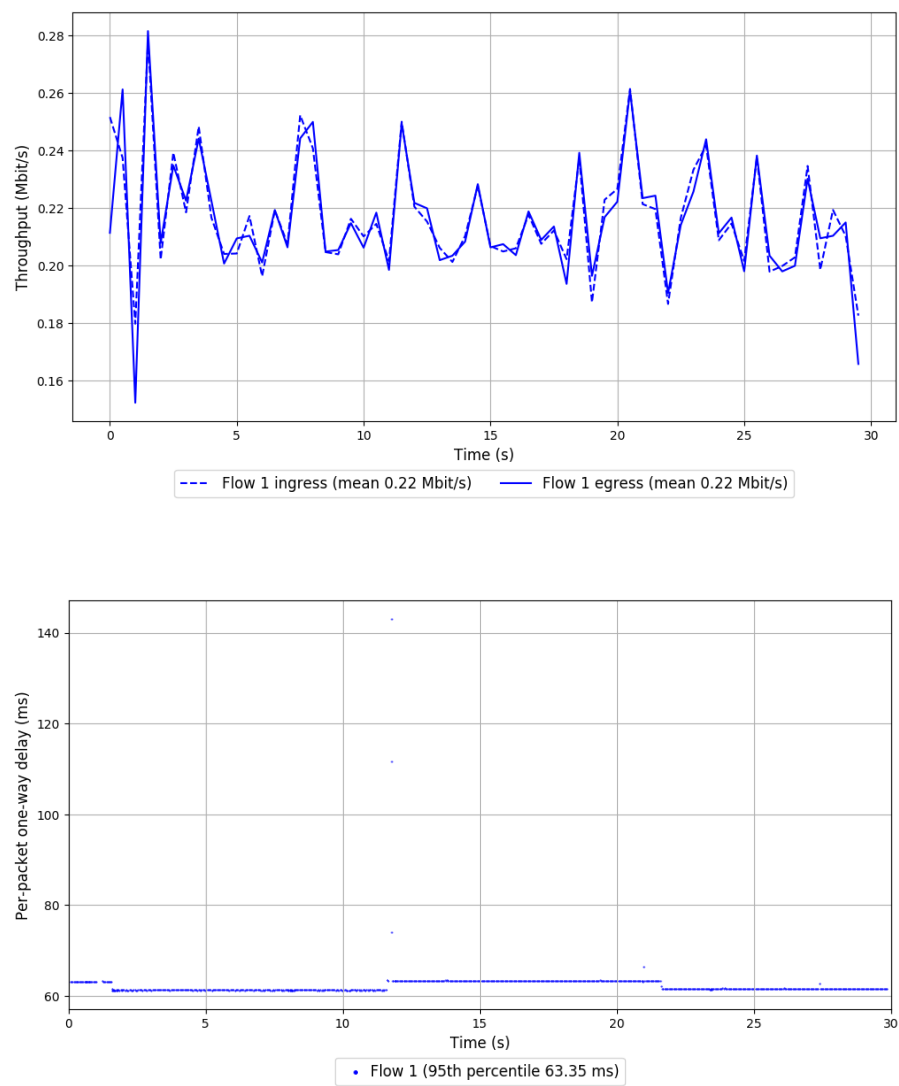
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.349 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-26 05:11:37

End at: 2018-01-26 05:12:07

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.493 ms

Loss rate: 0.38%

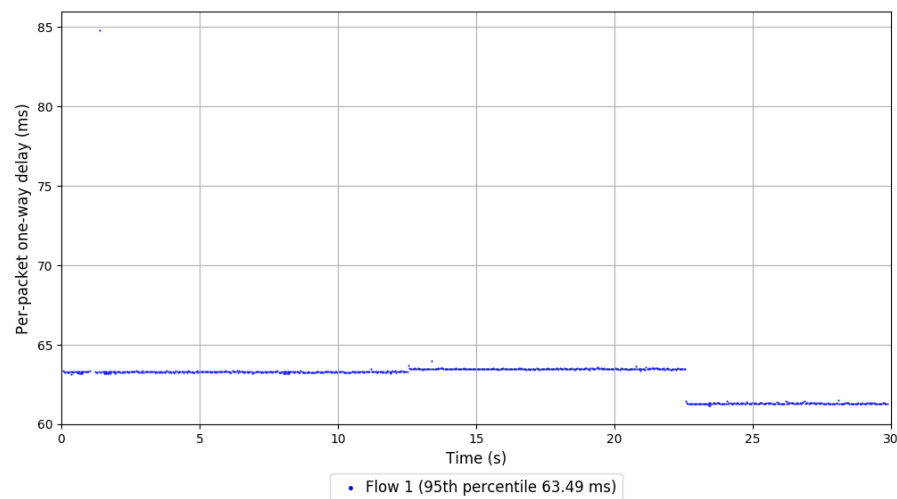
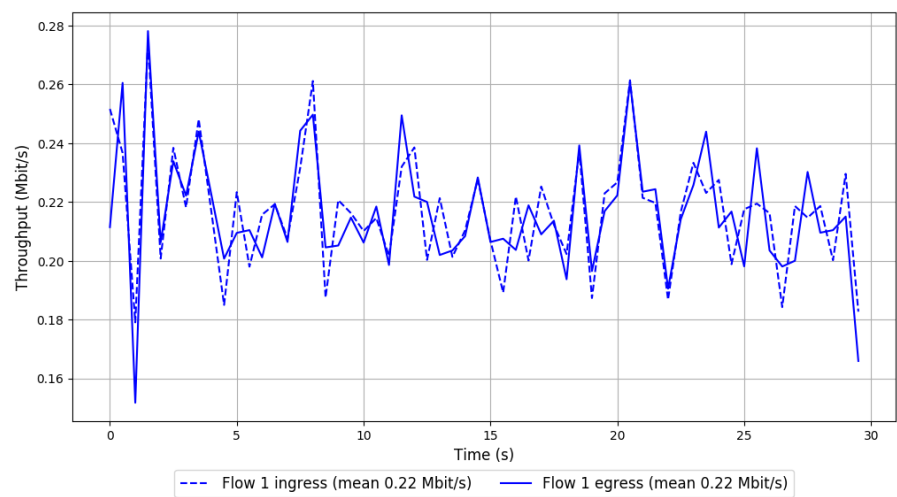
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.493 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-26 05:23:39

End at: 2018-01-26 05:24:09

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.391 ms

Loss rate: 0.38%

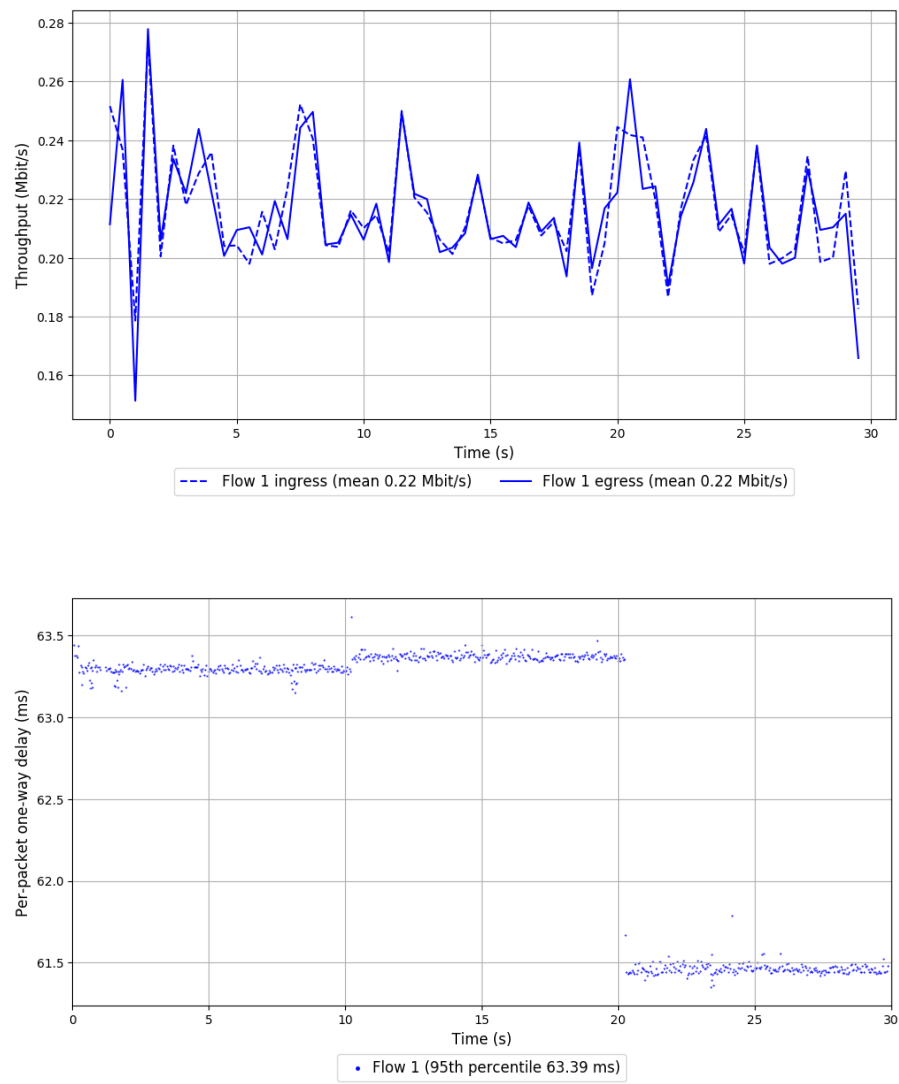
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.391 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

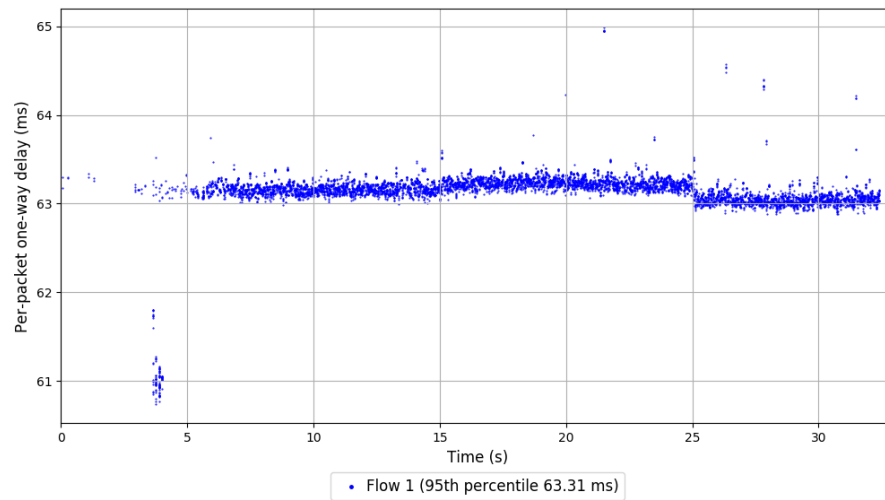
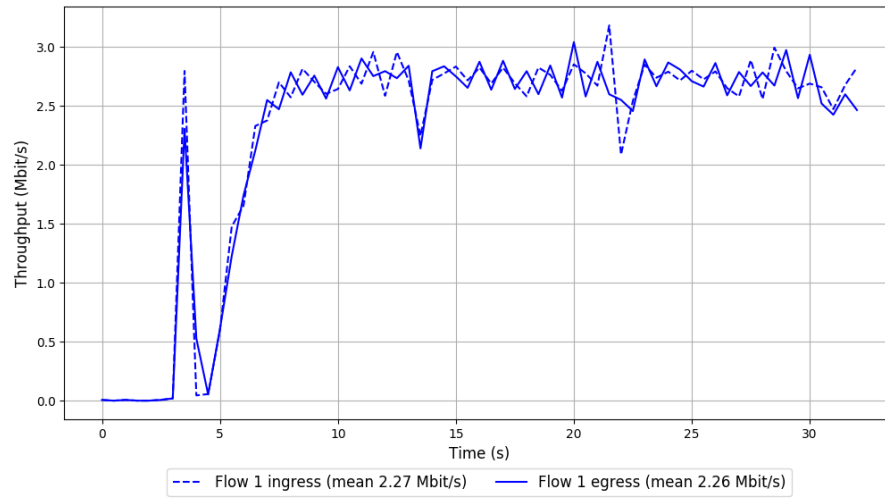


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 03:34:47
End at: 2018-01-26 03:35:17

# Below is generated by plot.py at 2018-01-26 08:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.309 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.309 ms
Loss rate: 0.56%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-26 03:46:55

End at: 2018-01-26 03:47:25

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.520 ms

Loss rate: 0.45%

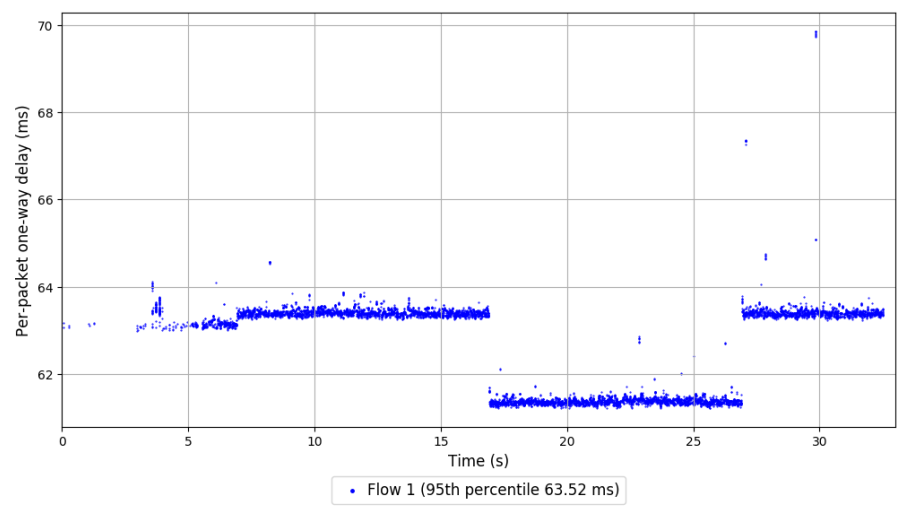
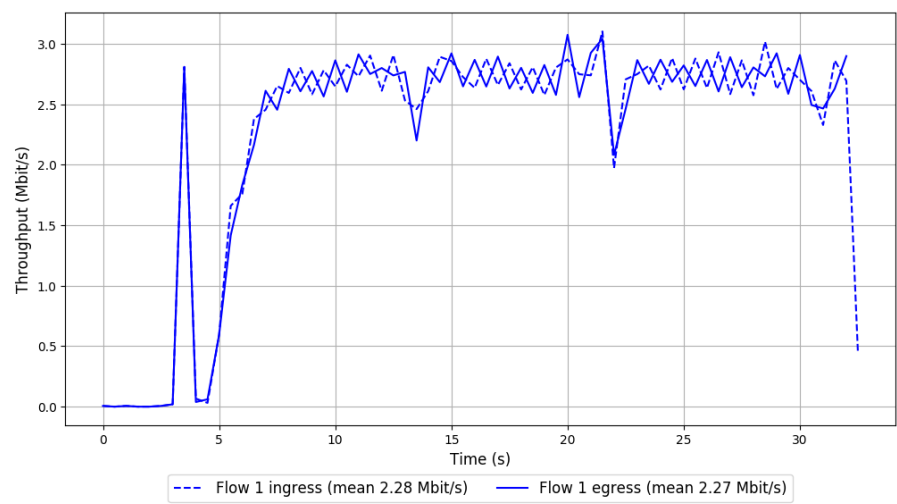
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.520 ms

Loss rate: 0.45%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-26 03:59:10

End at: 2018-01-26 03:59:40

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.413 ms

Loss rate: 0.45%

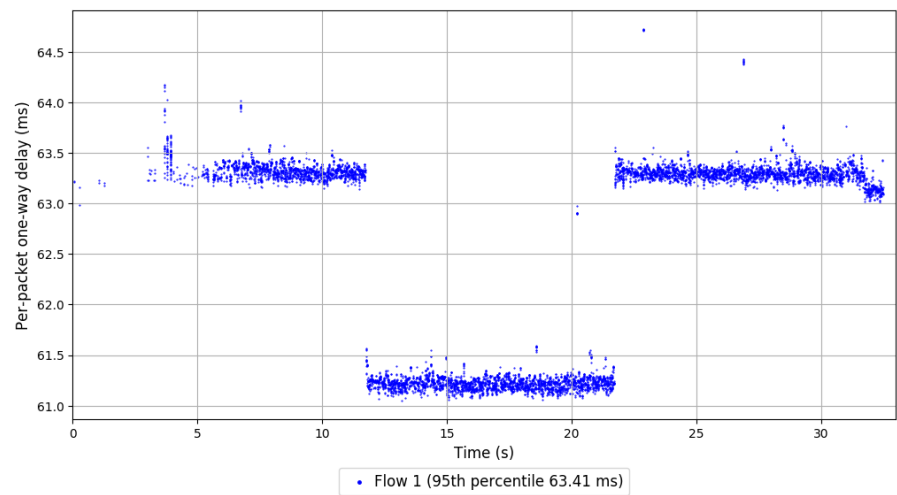
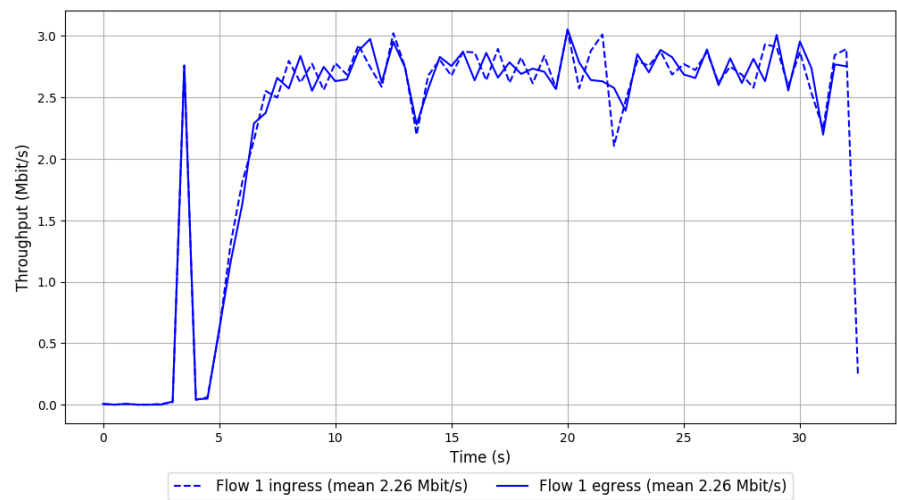
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.413 ms

Loss rate: 0.45%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-26 04:11:26

End at: 2018-01-26 04:11:56

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.116 ms

Loss rate: 0.44%

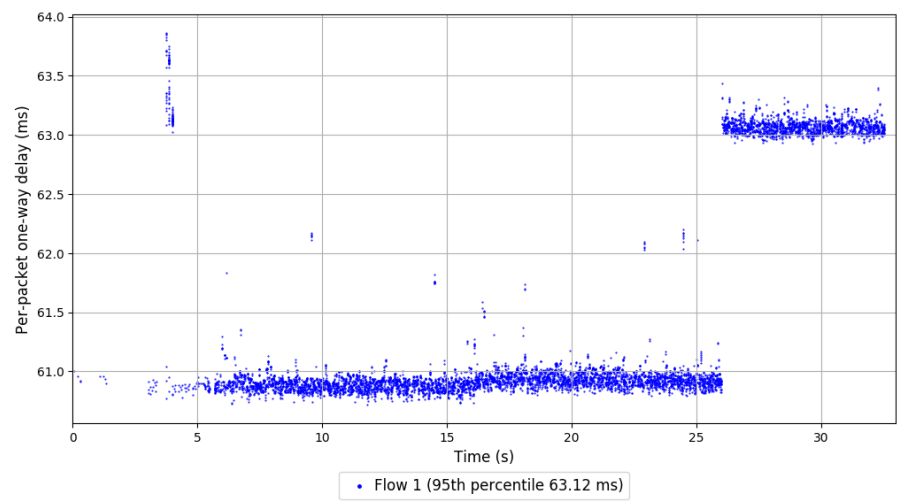
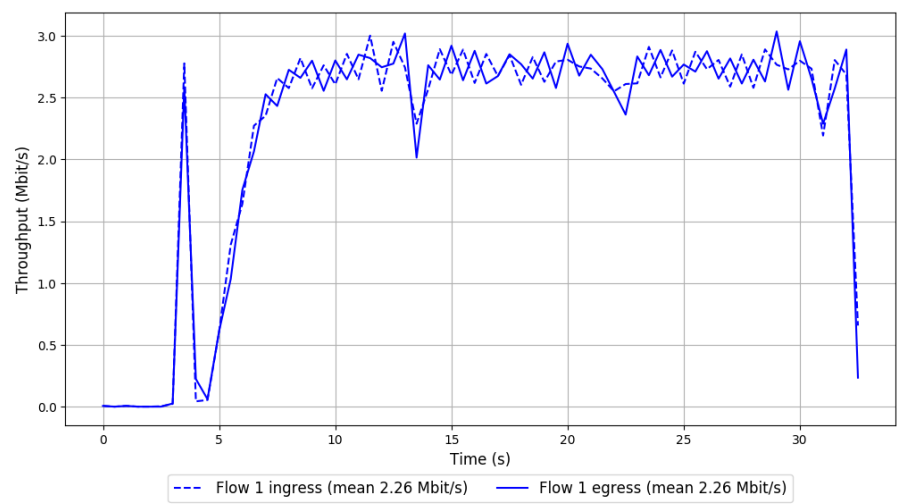
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.116 ms

Loss rate: 0.44%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-26 04:23:46

End at: 2018-01-26 04:24:16

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.249 ms

Loss rate: 0.56%

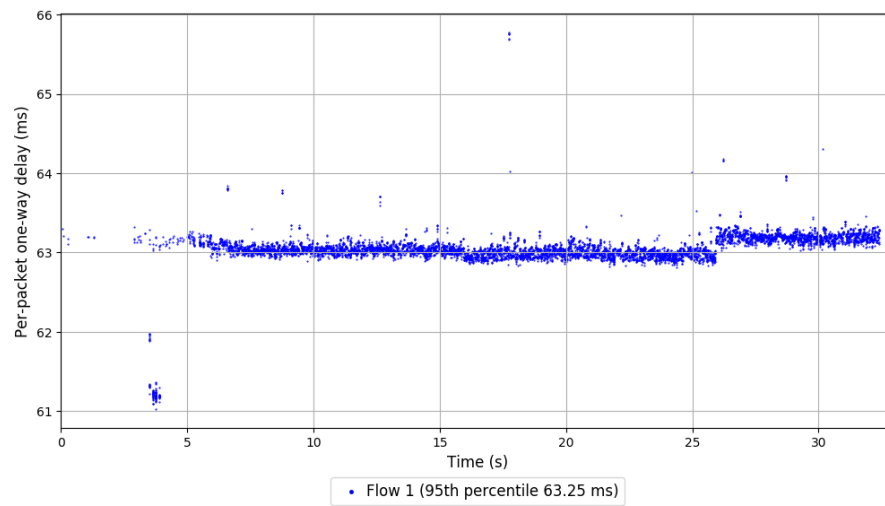
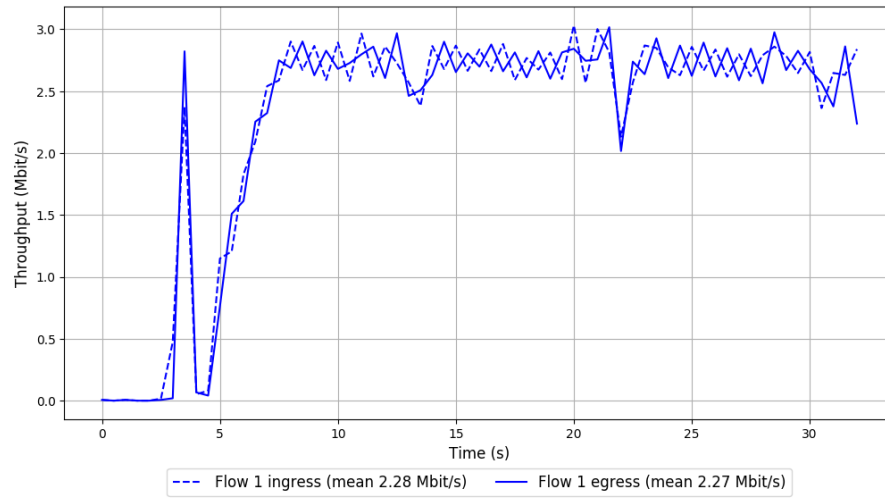
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.249 ms

Loss rate: 0.56%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-26 04:35:55

End at: 2018-01-26 04:36:25

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.45%

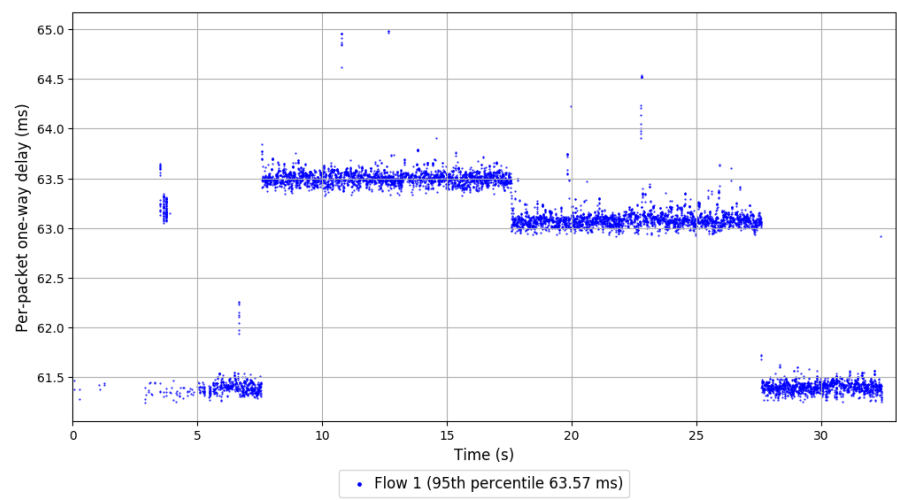
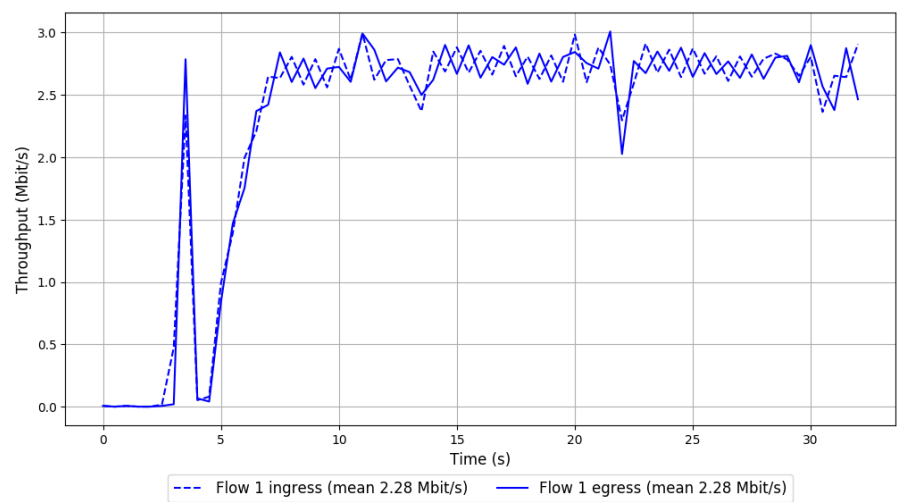
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-26 04:48:02

End at: 2018-01-26 04:48:32

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.347 ms

Loss rate: 0.61%

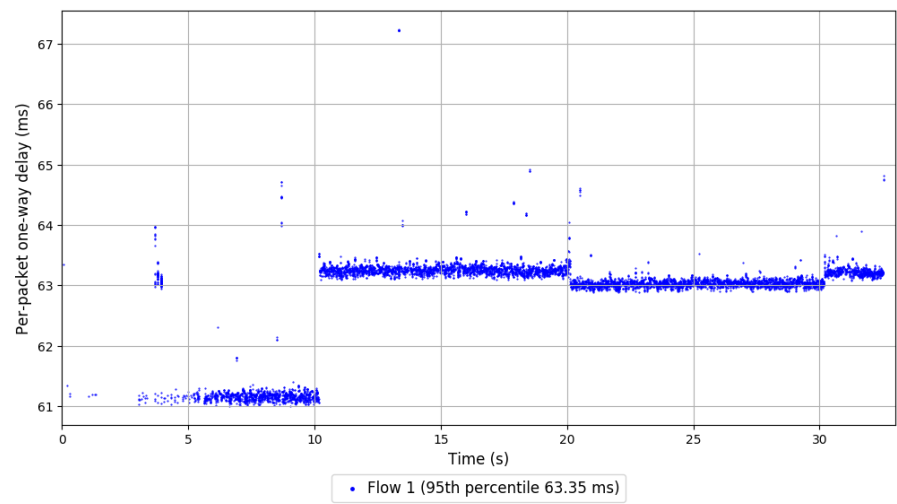
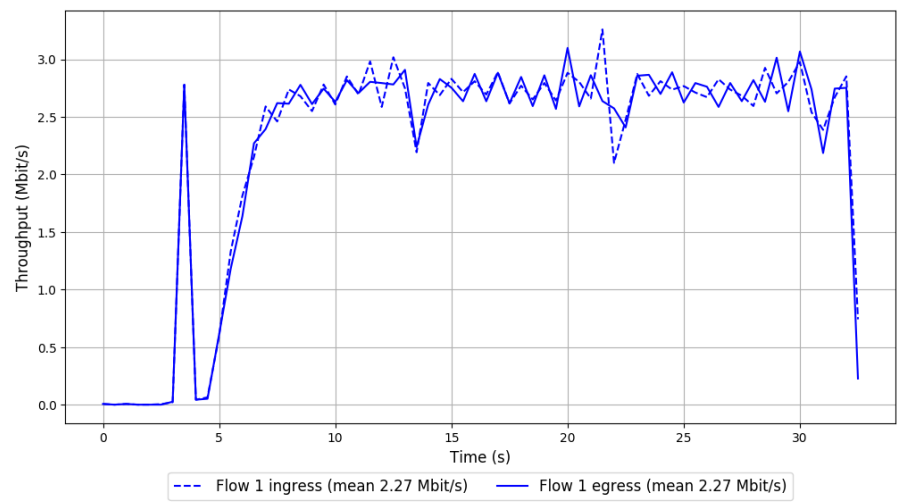
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.347 ms

Loss rate: 0.61%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 05:00:05

End at: 2018-01-26 05:00:35

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.453 ms

Loss rate: 0.46%

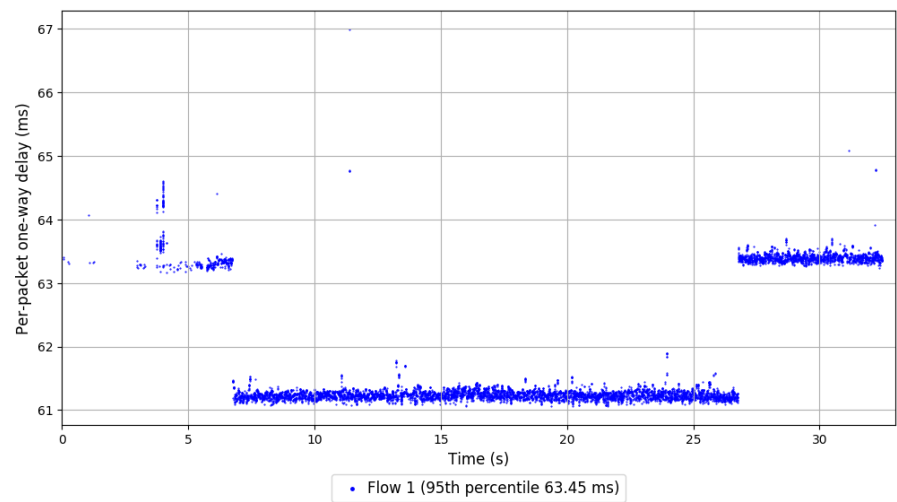
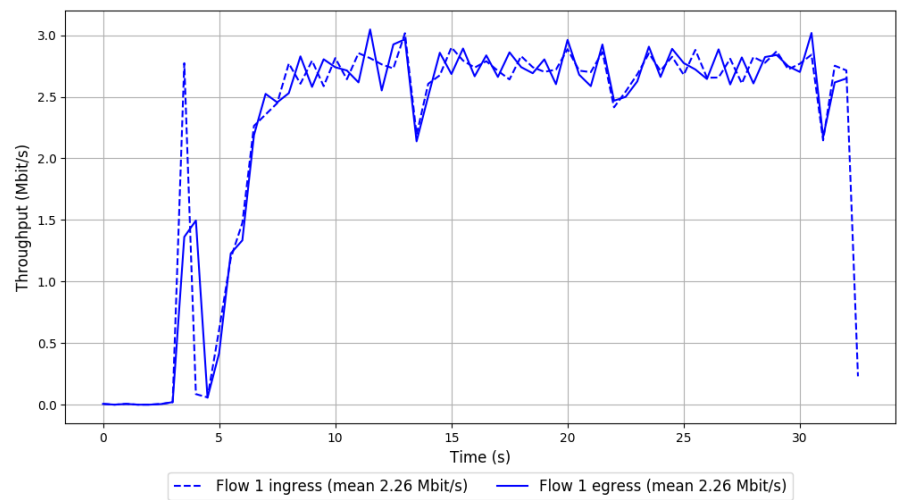
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.453 ms

Loss rate: 0.46%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-26 05:12:14

End at: 2018-01-26 05:12:45

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.368 ms

Loss rate: 0.45%

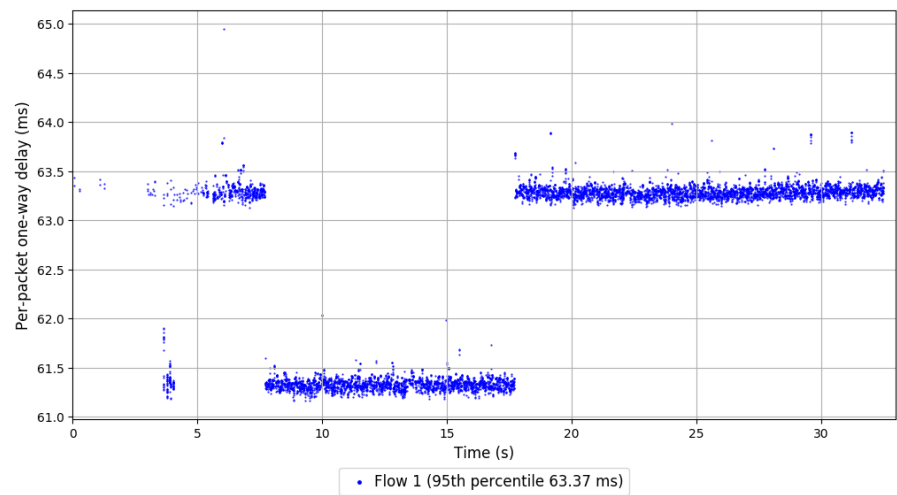
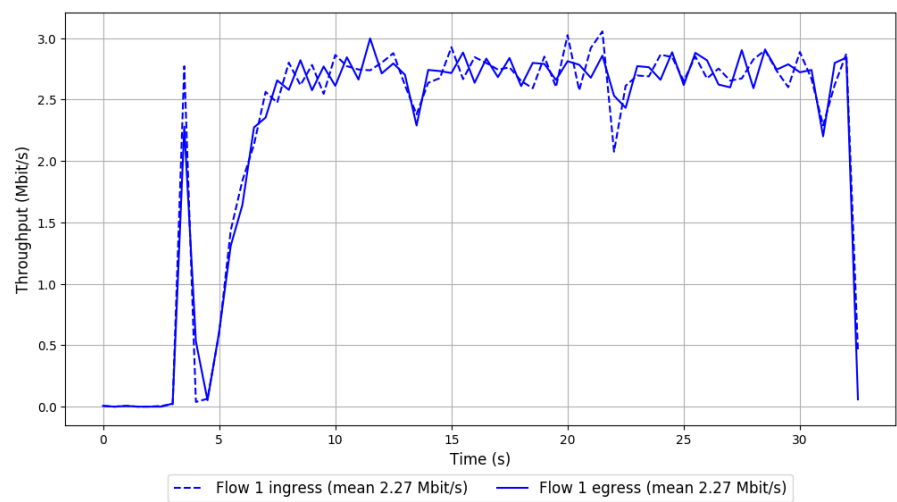
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.368 ms

Loss rate: 0.45%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-26 05:24:17

End at: 2018-01-26 05:24:47

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.444 ms

Loss rate: 0.44%

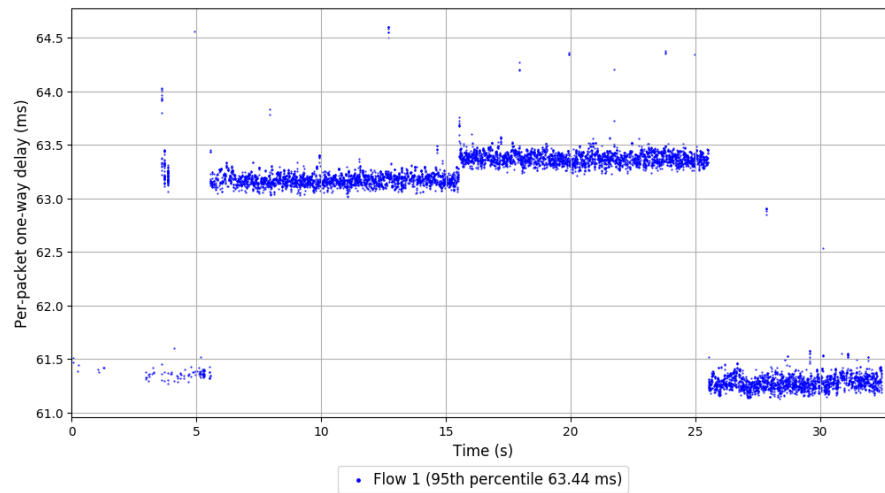
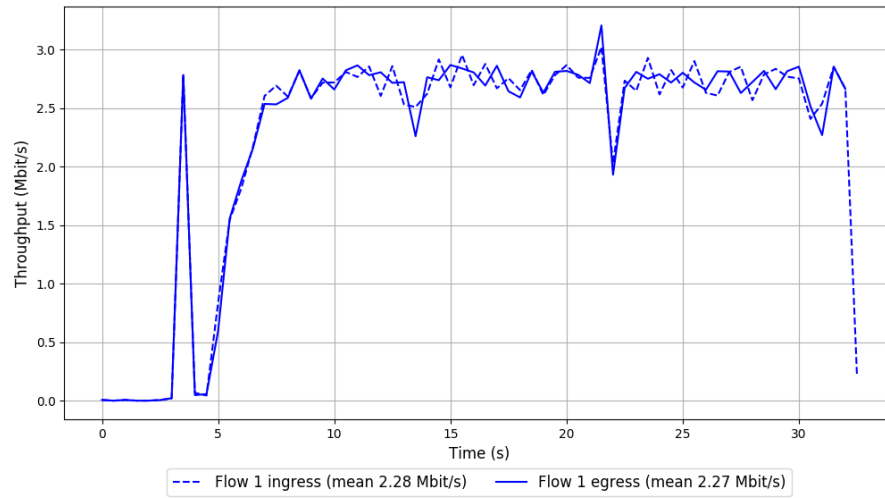
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.444 ms

Loss rate: 0.44%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-26 03:40:55

End at: 2018-01-26 03:41:25

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 63.923 ms

Loss rate: 0.61%

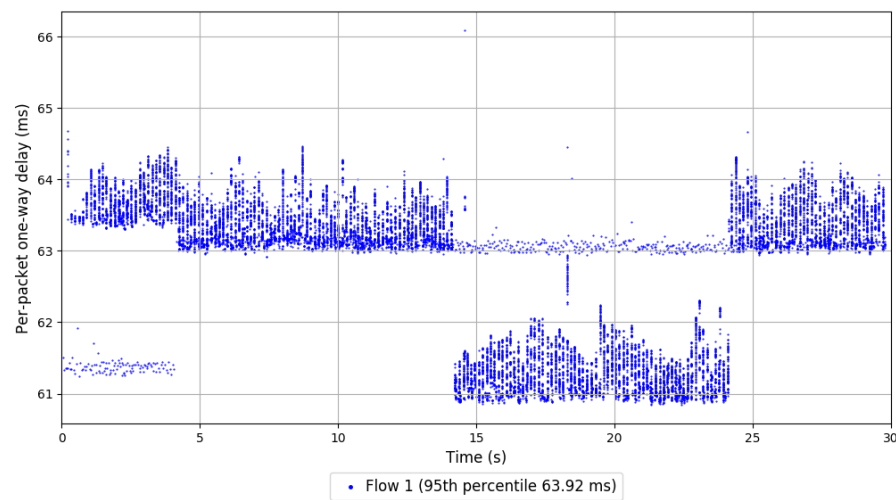
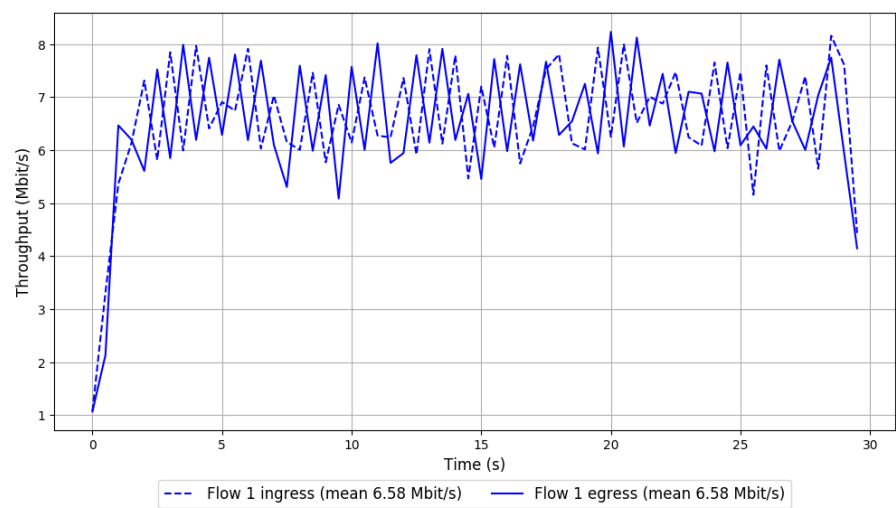
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 63.923 ms

Loss rate: 0.61%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-26 03:53:05

End at: 2018-01-26 03:53:35

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 63.919 ms

Loss rate: 0.45%

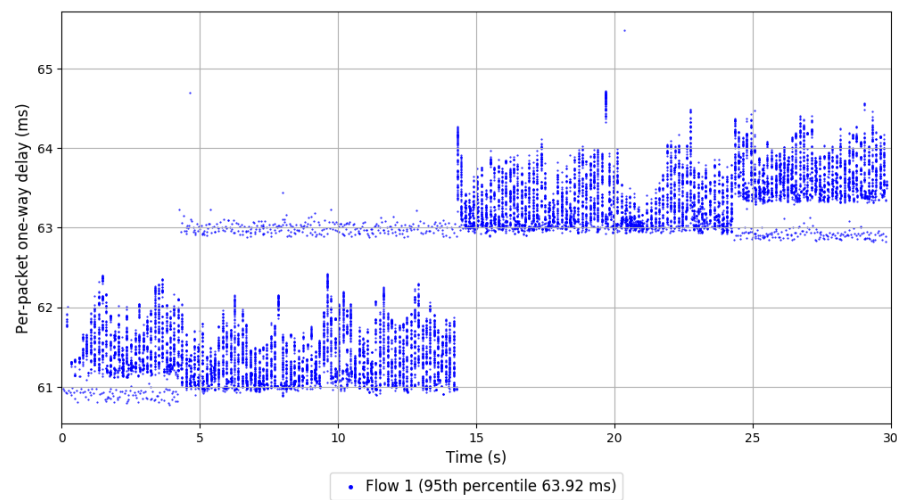
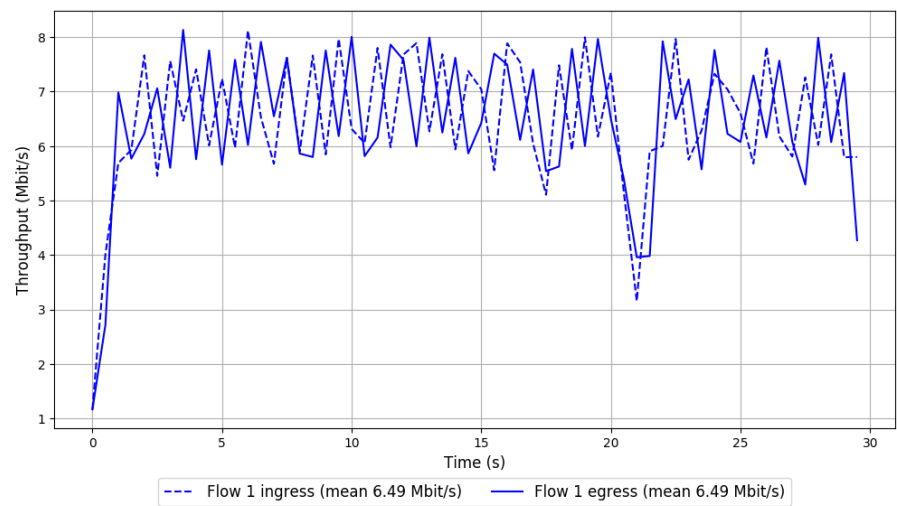
-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 63.919 ms

Loss rate: 0.45%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-26 04:05:19

End at: 2018-01-26 04:05:49

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.119 ms

Loss rate: 0.53%

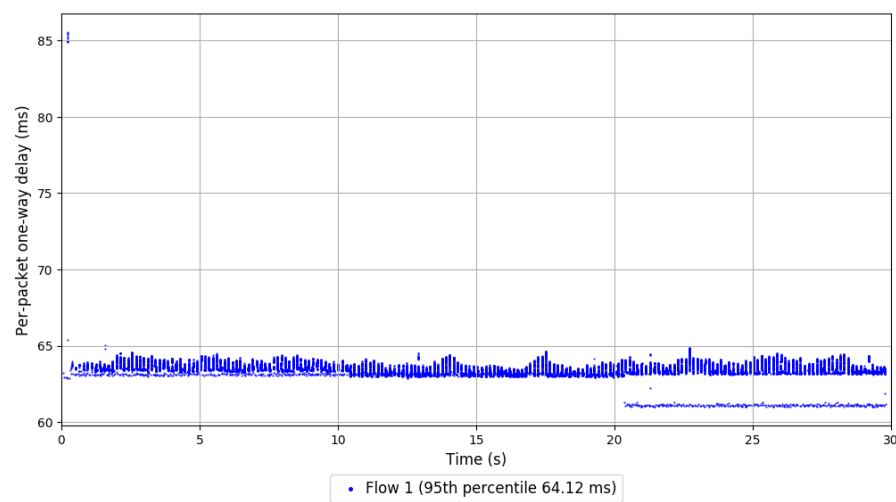
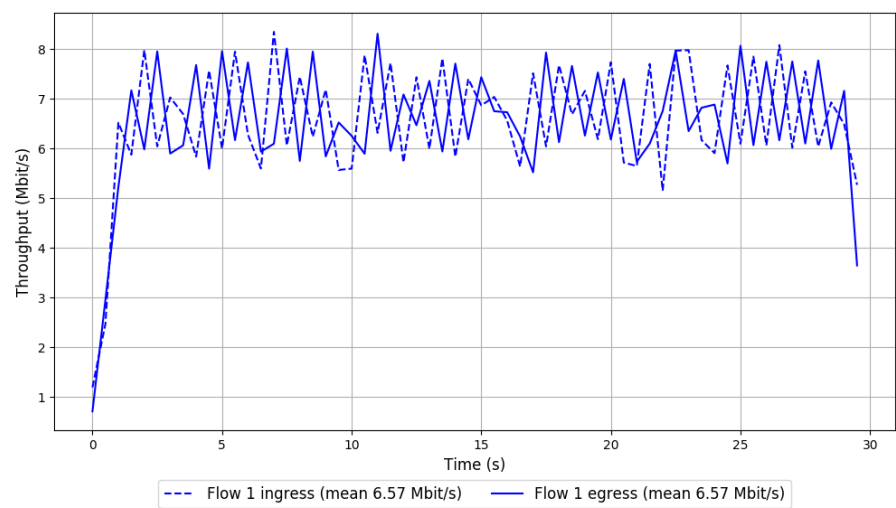
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.119 ms

Loss rate: 0.53%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-26 04:17:37

End at: 2018-01-26 04:18:07

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 64.085 ms

Loss rate: 0.33%

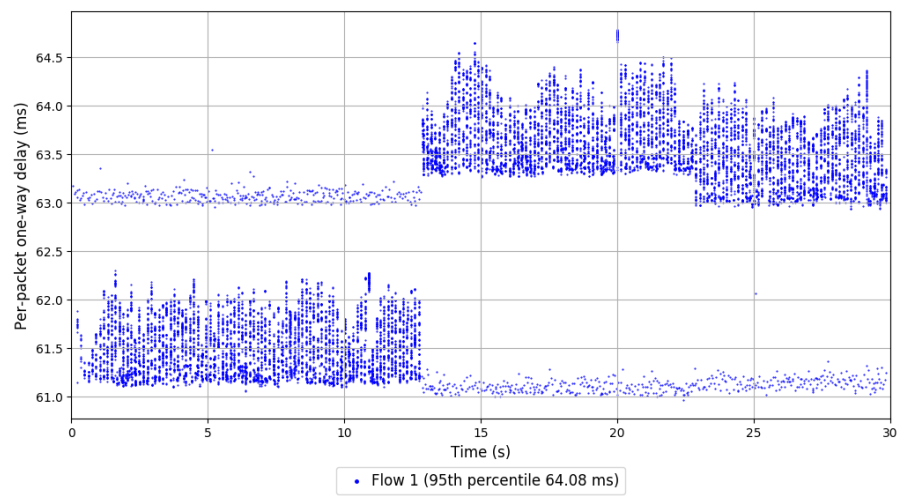
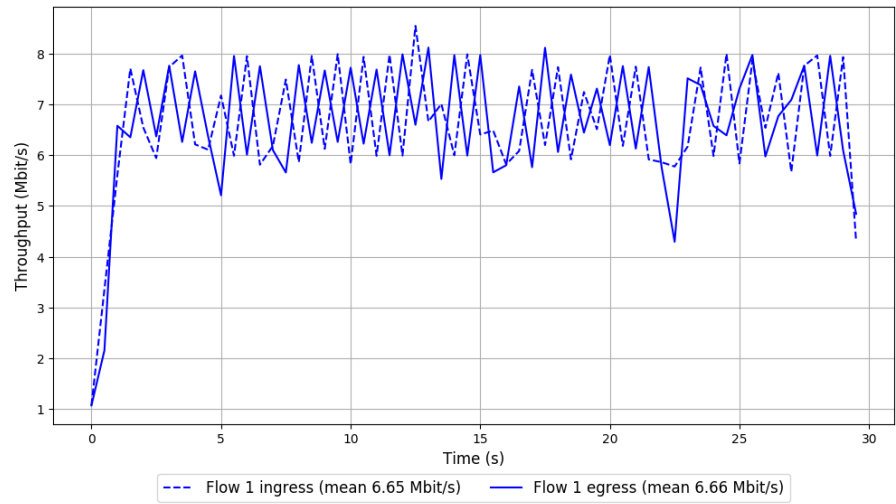
-- Flow 1:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 64.085 ms

Loss rate: 0.33%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-26 04:29:55

End at: 2018-01-26 04:30:25

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 0.51%

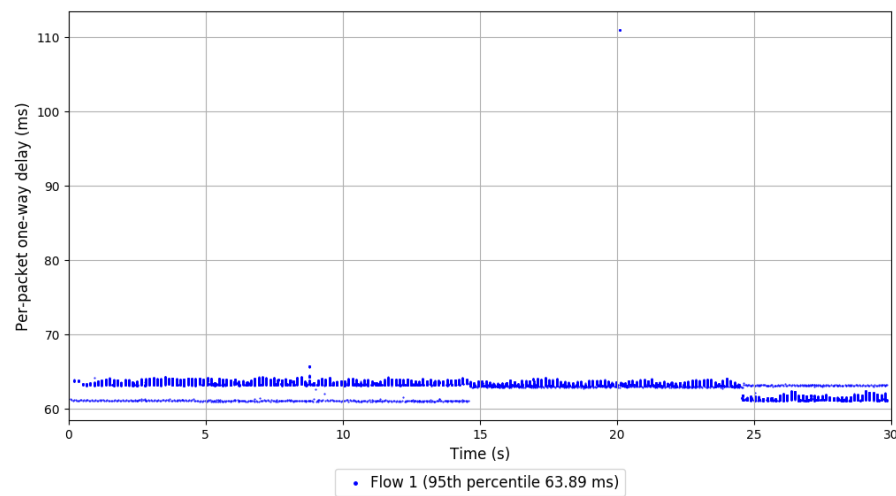
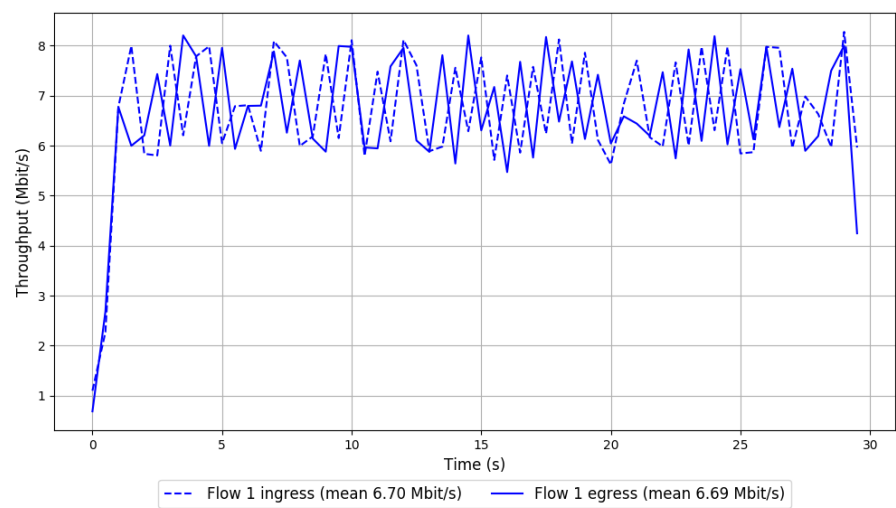
-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 0.51%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-26 04:42:04

End at: 2018-01-26 04:42:34

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 63.837 ms

Loss rate: 0.49%

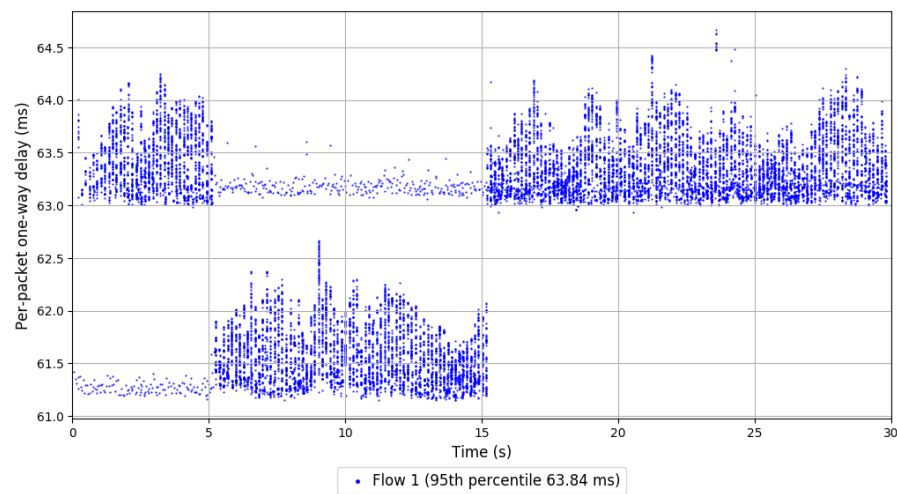
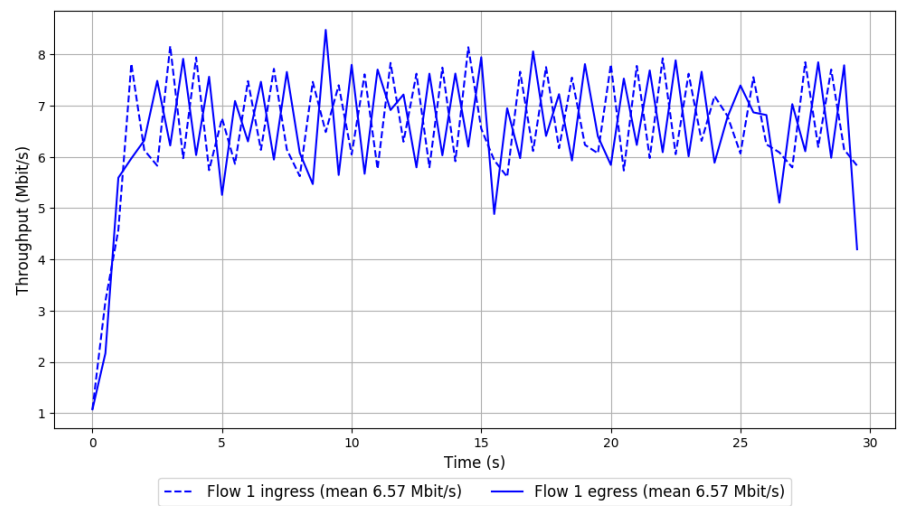
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 63.837 ms

Loss rate: 0.49%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-26 04:54:09

End at: 2018-01-26 04:54:39

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 63.956 ms

Loss rate: 0.62%

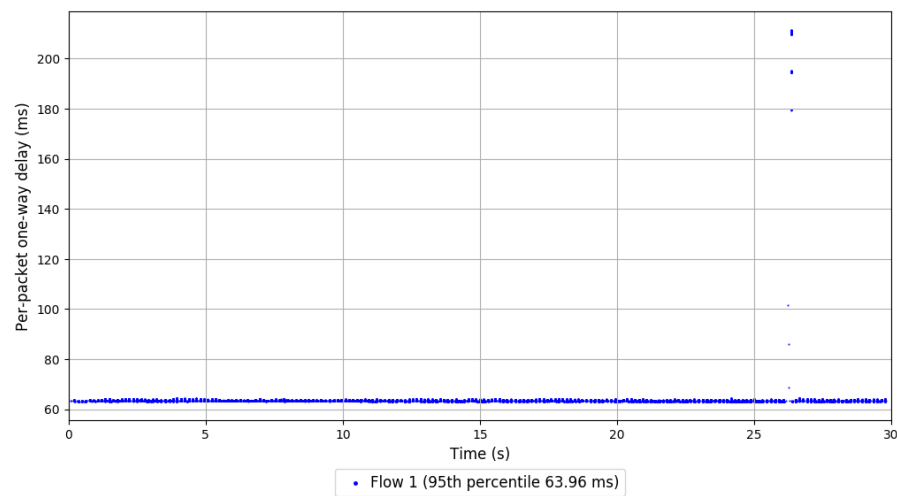
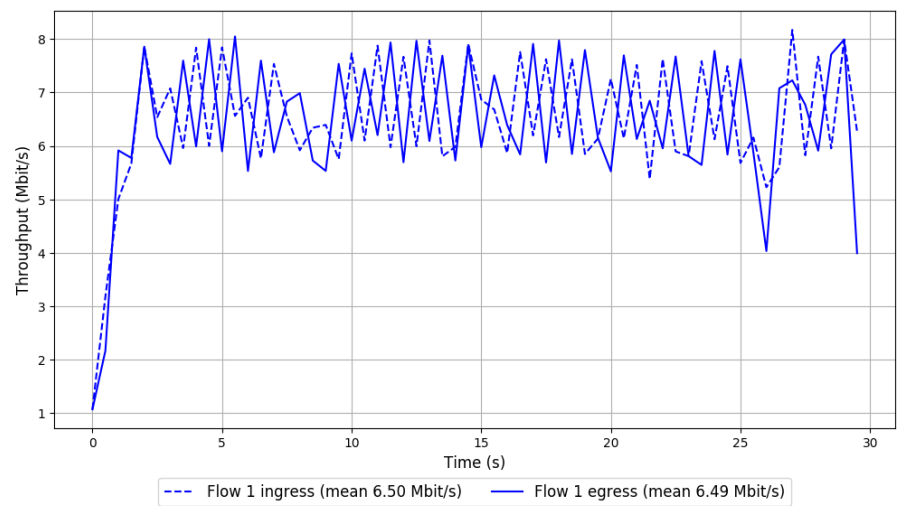
-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 63.956 ms

Loss rate: 0.62%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-26 05:06:19

End at: 2018-01-26 05:06:49

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 64.055 ms

Loss rate: 0.01%

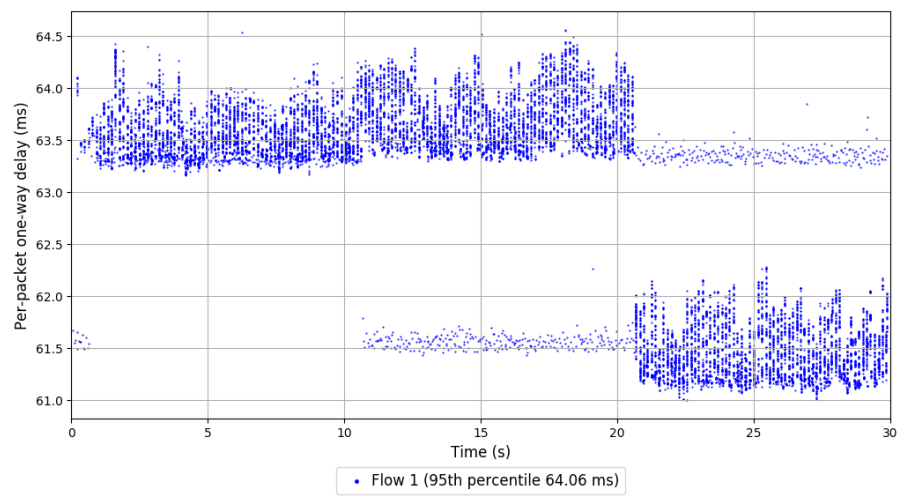
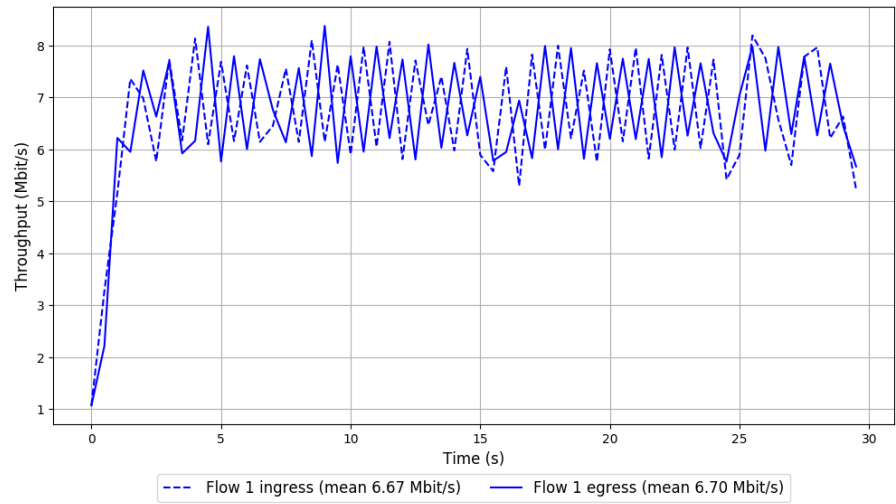
-- Flow 1:

Average throughput: 6.70 Mbit/s

95th percentile per-packet one-way delay: 64.055 ms

Loss rate: 0.01%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-26 05:18:30

End at: 2018-01-26 05:19:00

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 63.965 ms

Loss rate: 0.50%

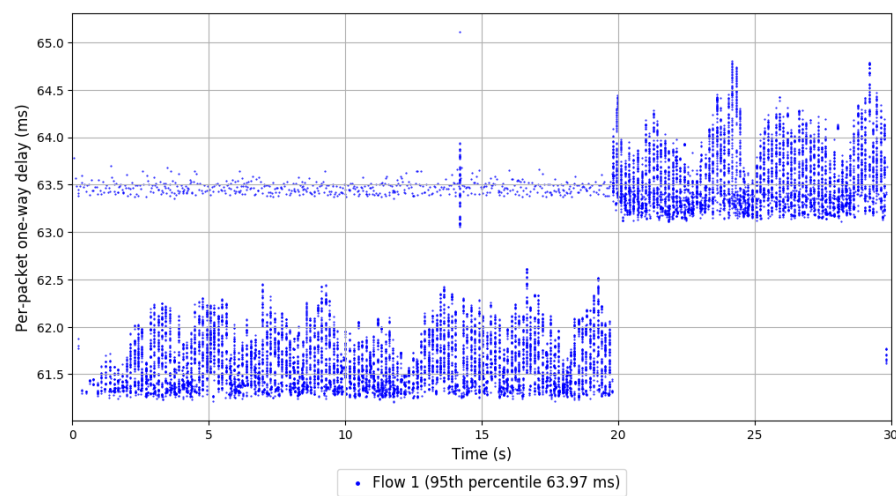
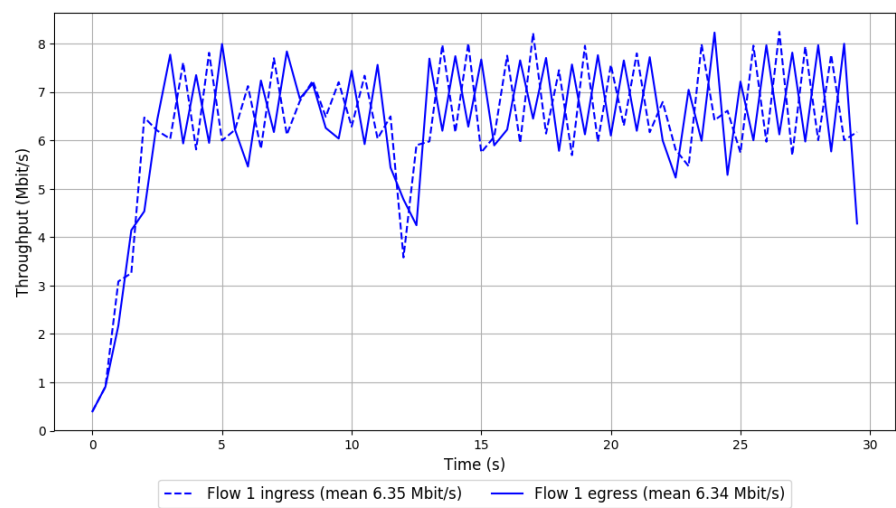
-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 63.965 ms

Loss rate: 0.50%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-26 05:30:29

End at: 2018-01-26 05:30:59

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.117 ms

Loss rate: 0.37%

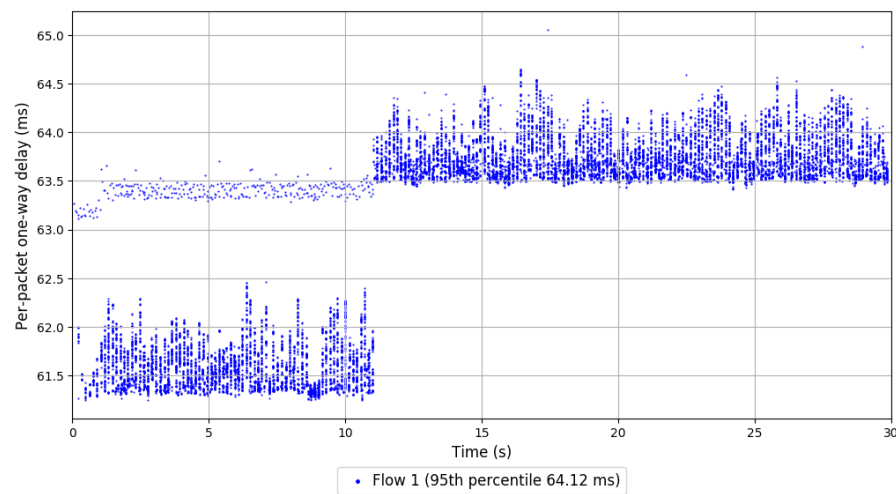
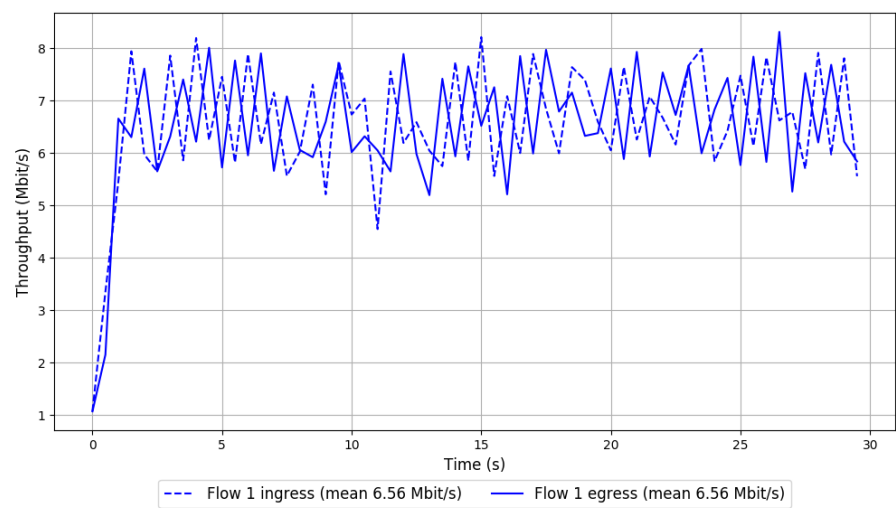
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.117 ms

Loss rate: 0.37%

Run 10: Report of Sprout — Data Link

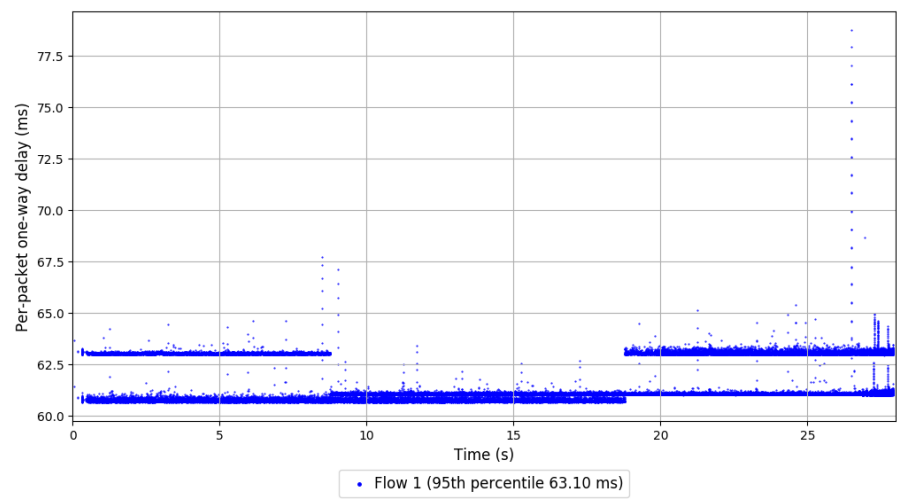
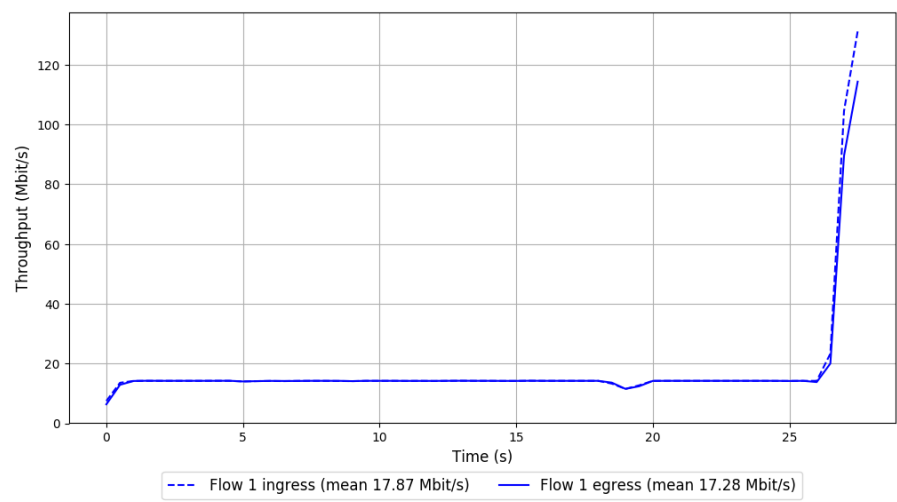


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 03:30:59
End at: 2018-01-26 03:31:29

# Below is generated by plot.py at 2018-01-26 08:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.28 Mbit/s
95th percentile per-packet one-way delay: 63.102 ms
Loss rate: 3.73%
-- Flow 1:
Average throughput: 17.28 Mbit/s
95th percentile per-packet one-way delay: 63.102 ms
Loss rate: 3.73%
```


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

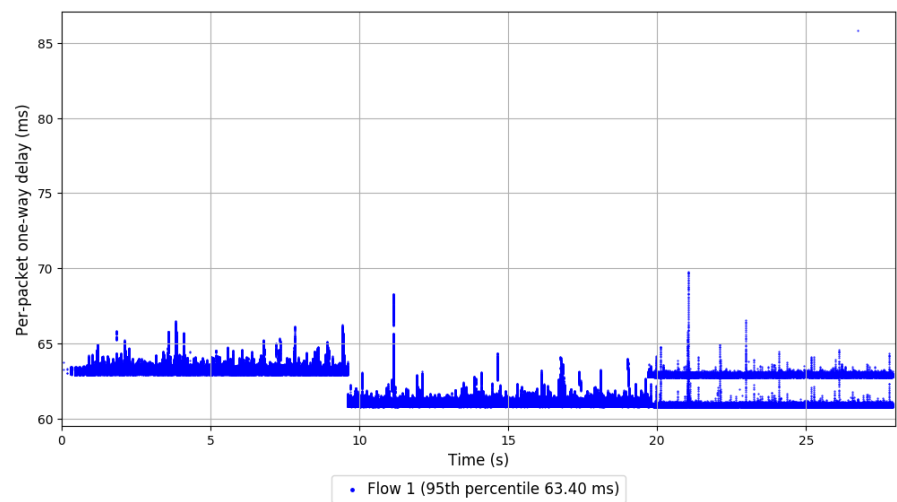
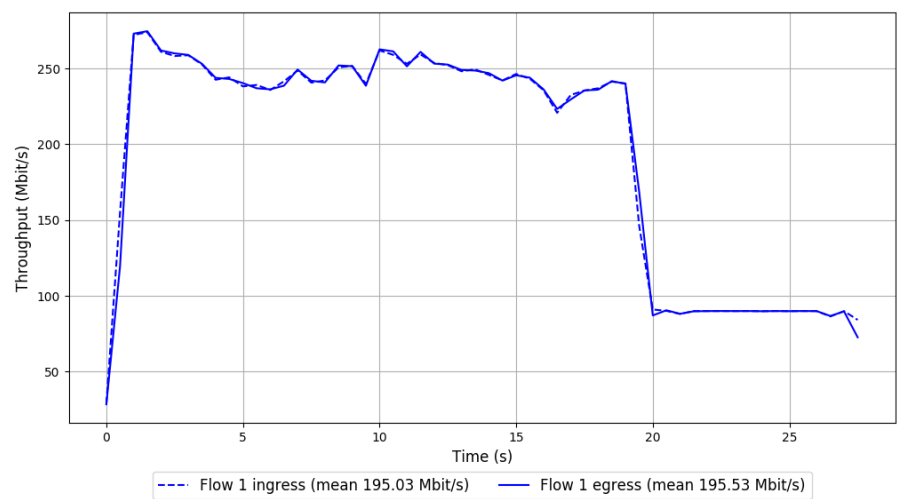


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 03:42:58
End at: 2018-01-26 03:43:28

# Below is generated by plot.py at 2018-01-26 08:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.53 Mbit/s
95th percentile per-packet one-way delay: 63.403 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 195.53 Mbit/s
95th percentile per-packet one-way delay: 63.403 ms
Loss rate: 0.21%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 03:55:08

End at: 2018-01-26 03:55:38

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.35 Mbit/s

95th percentile per-packet one-way delay: 63.226 ms

Loss rate: 0.05%

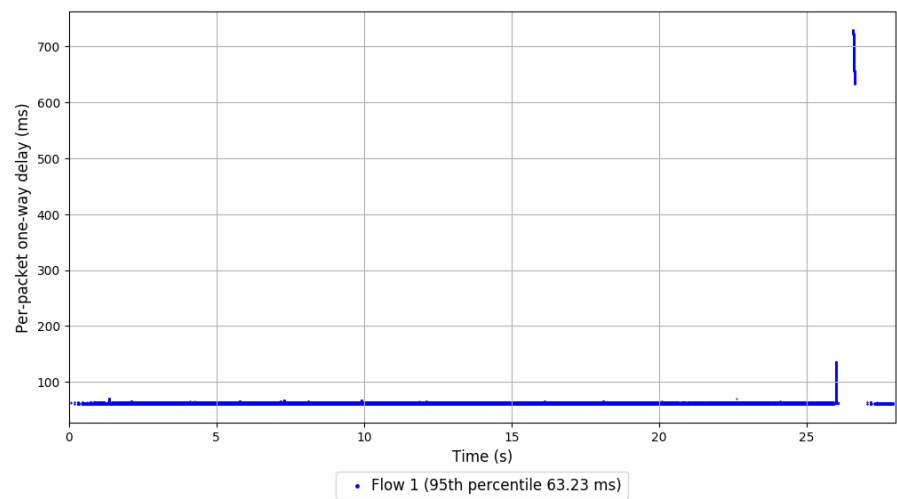
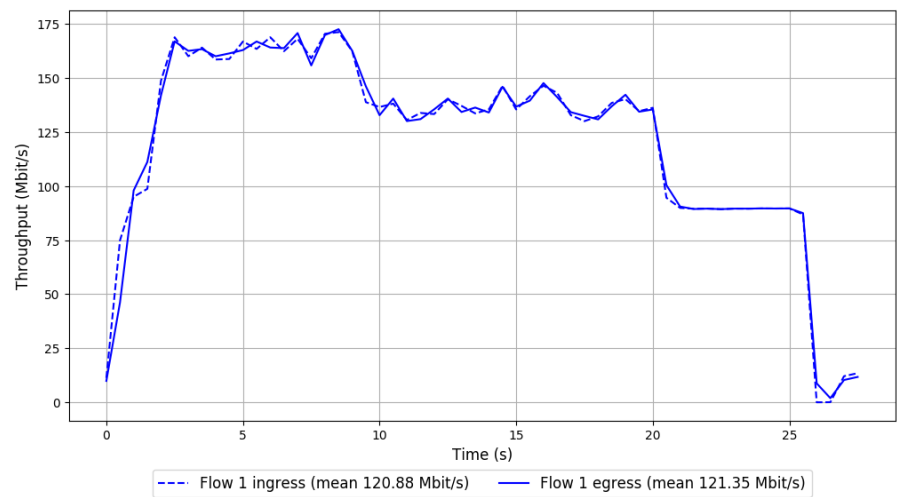
-- Flow 1:

Average throughput: 121.35 Mbit/s

95th percentile per-packet one-way delay: 63.226 ms

Loss rate: 0.05%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 04:07:22

End at: 2018-01-26 04:07:52

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.29 Mbit/s

95th percentile per-packet one-way delay: 63.408 ms

Loss rate: 0.49%

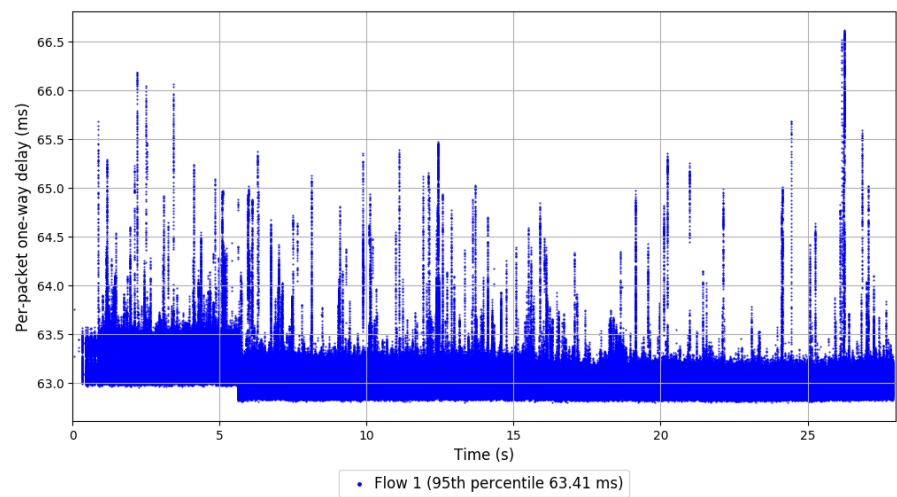
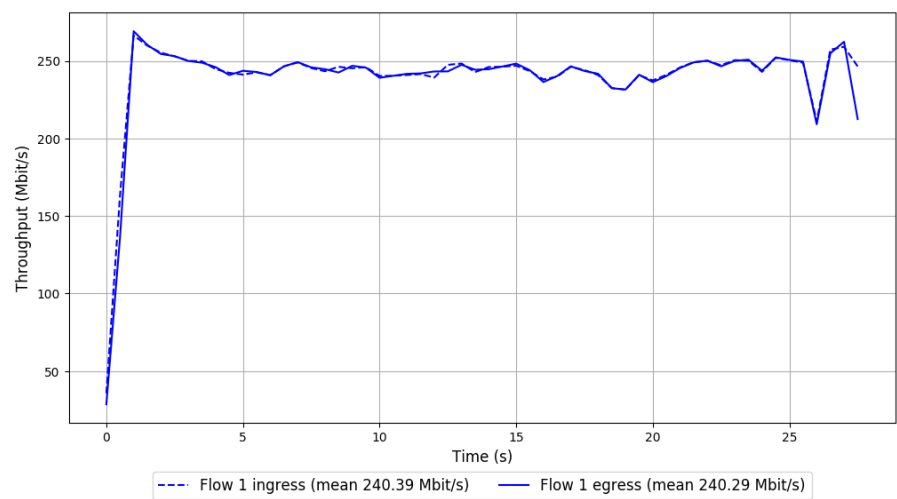
-- Flow 1:

Average throughput: 240.29 Mbit/s

95th percentile per-packet one-way delay: 63.408 ms

Loss rate: 0.49%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 04:19:39

End at: 2018-01-26 04:20:09

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.19 Mbit/s

95th percentile per-packet one-way delay: 63.421 ms

Loss rate: 0.48%

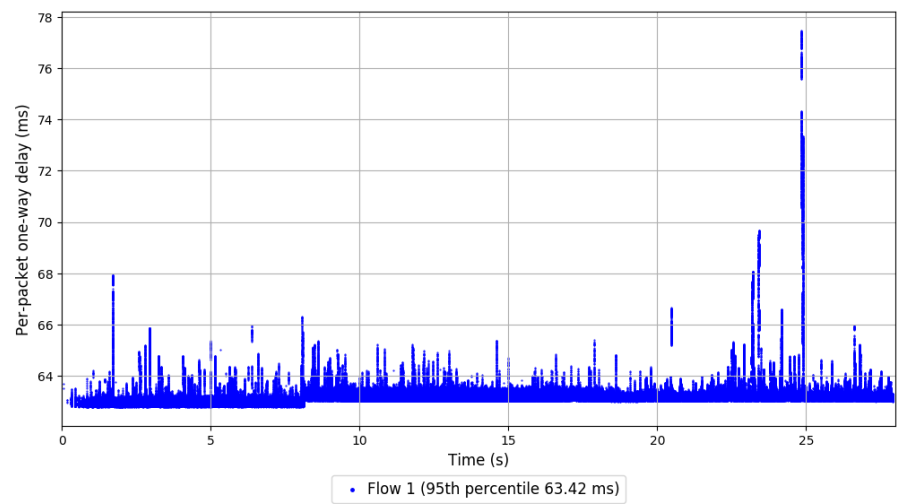
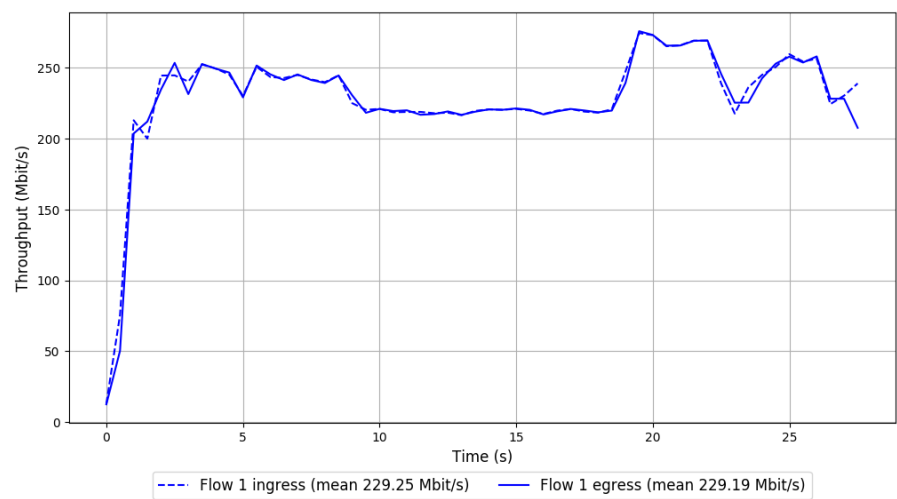
-- Flow 1:

Average throughput: 229.19 Mbit/s

95th percentile per-packet one-way delay: 63.421 ms

Loss rate: 0.48%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 04:31:57

End at: 2018-01-26 04:32:27

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.67 Mbit/s

95th percentile per-packet one-way delay: 63.382 ms

Loss rate: 0.67%

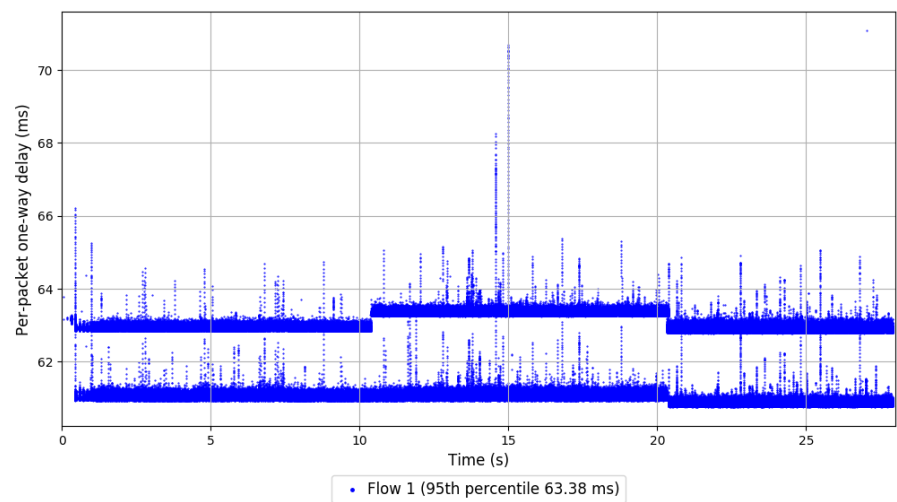
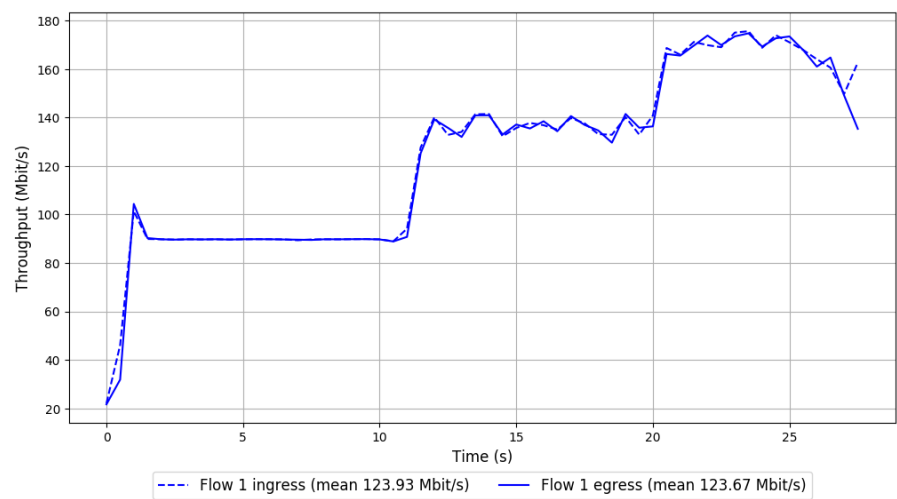
-- Flow 1:

Average throughput: 123.67 Mbit/s

95th percentile per-packet one-way delay: 63.382 ms

Loss rate: 0.67%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 04:44:07

End at: 2018-01-26 04:44:37

Below is generated by plot.py at 2018-01-26 08:01:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.29 Mbit/s

95th percentile per-packet one-way delay: 63.303 ms

Loss rate: 0.28%

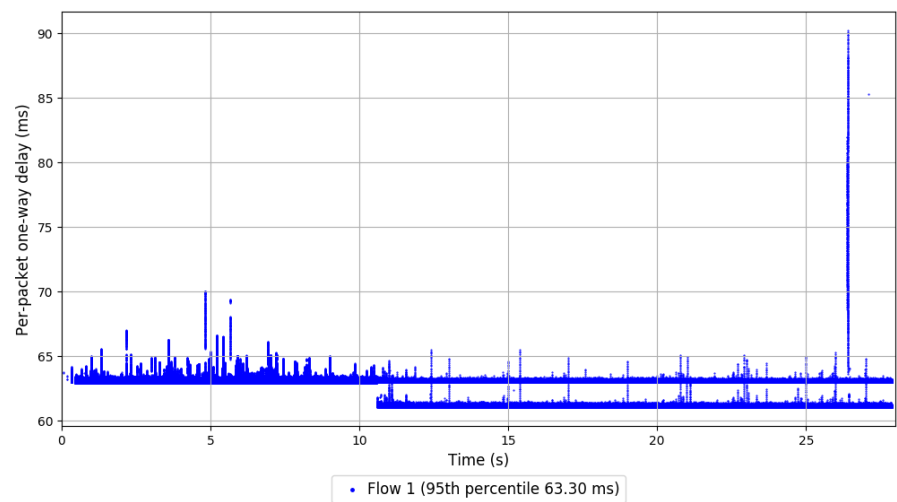
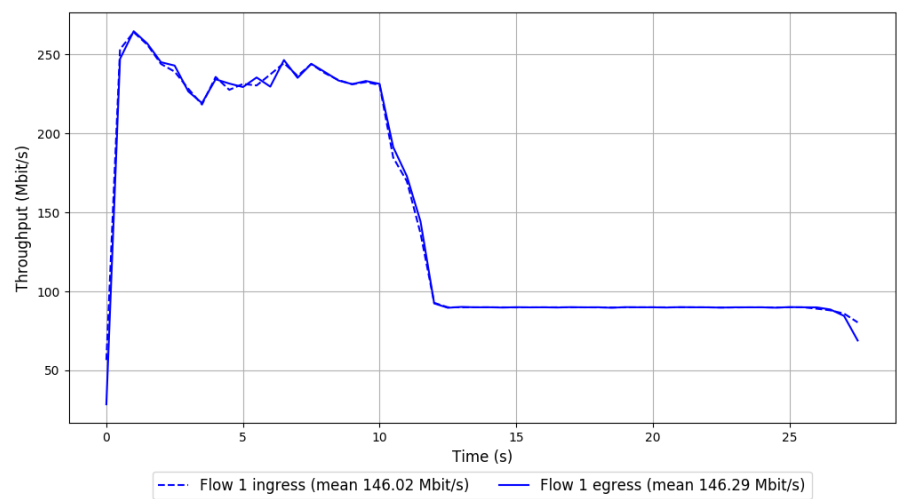
-- Flow 1:

Average throughput: 146.29 Mbit/s

95th percentile per-packet one-way delay: 63.303 ms

Loss rate: 0.28%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 04:56:02

End at: 2018-01-26 04:56:32

Below is generated by plot.py at 2018-01-26 08:02:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.37 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.35%

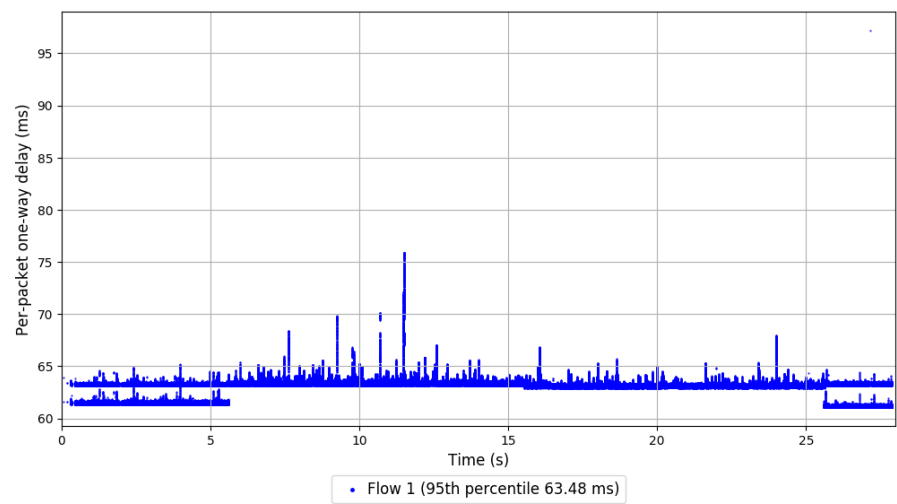
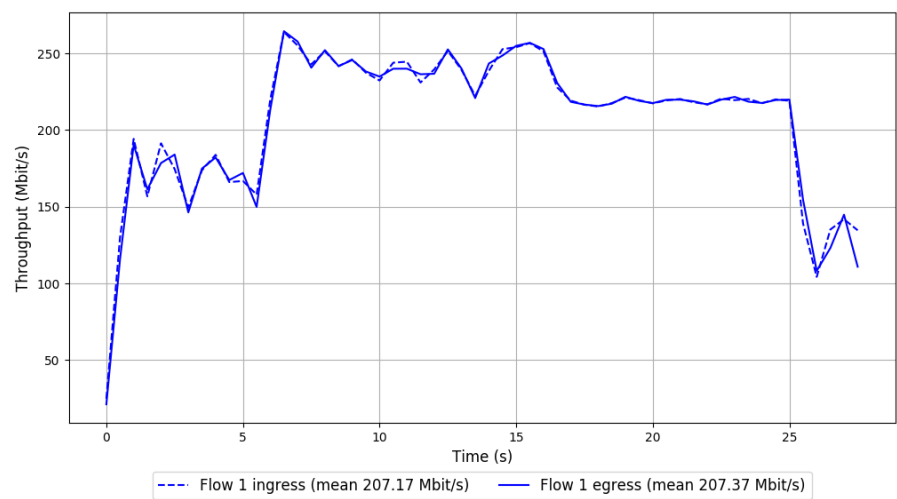
-- Flow 1:

Average throughput: 207.37 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.35%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 05:08:22

End at: 2018-01-26 05:08:52

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.64 Mbit/s

95th percentile per-packet one-way delay: 63.227 ms

Loss rate: 0.43%

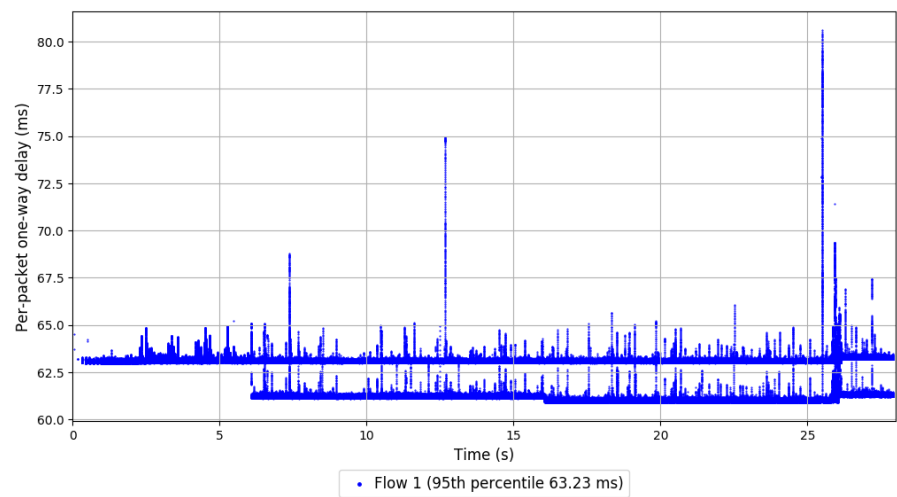
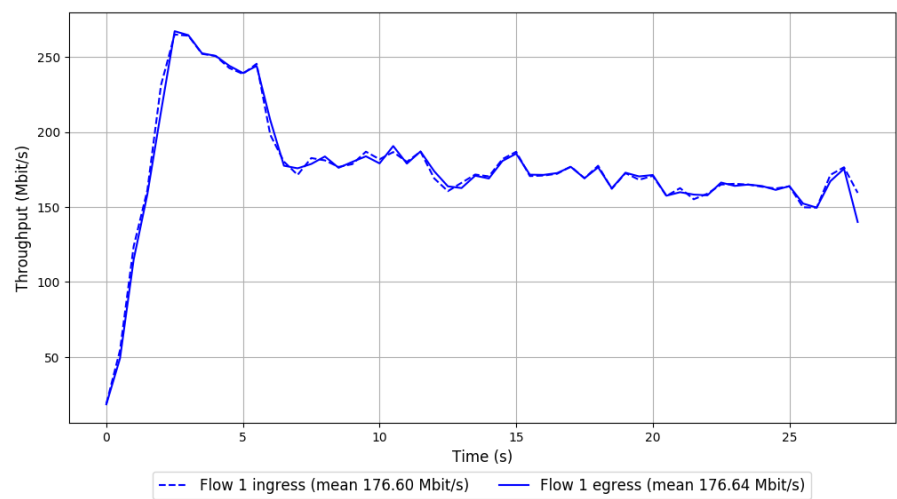
-- Flow 1:

Average throughput: 176.64 Mbit/s

95th percentile per-packet one-way delay: 63.227 ms

Loss rate: 0.43%

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

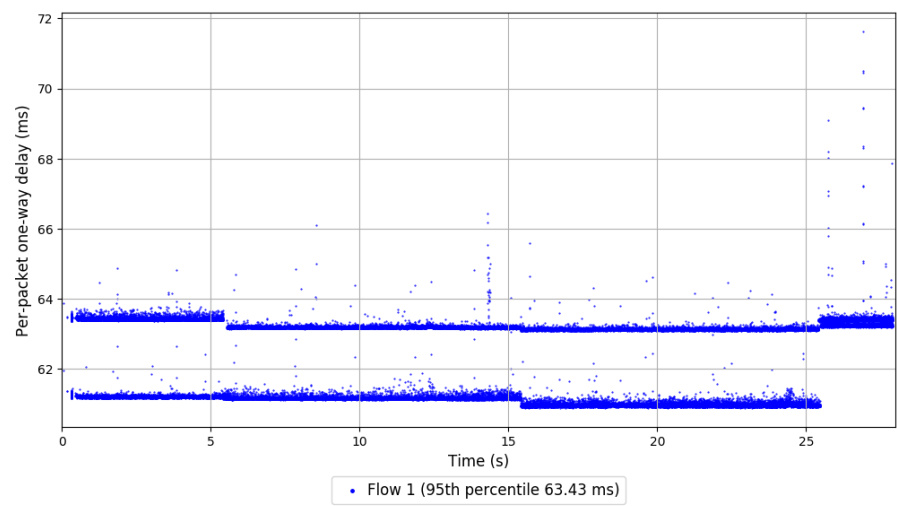
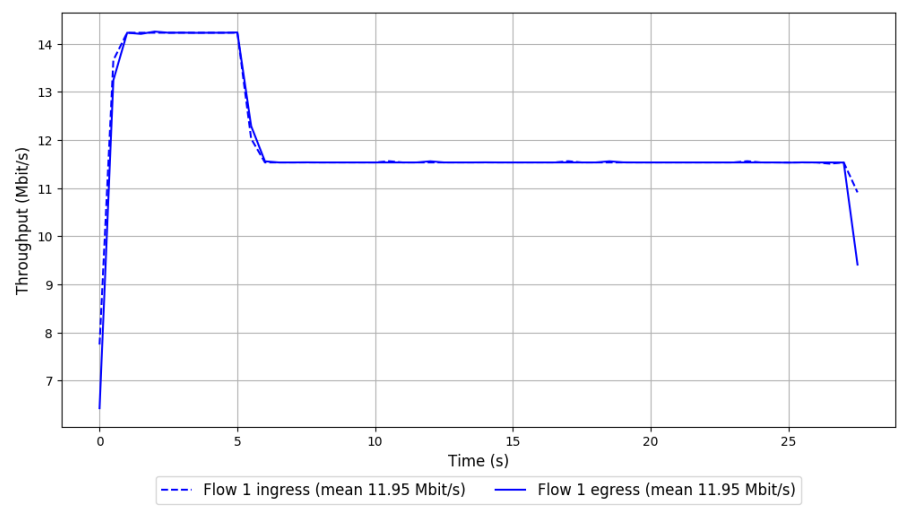


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 05:20:32
End at: 2018-01-26 05:21:02

# Below is generated by plot.py at 2018-01-26 08:02:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 63.433 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 63.433 ms
Loss rate: 0.44%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 03:38:27

End at: 2018-01-26 03:38:57

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 63.843 ms

Loss rate: 0.60%

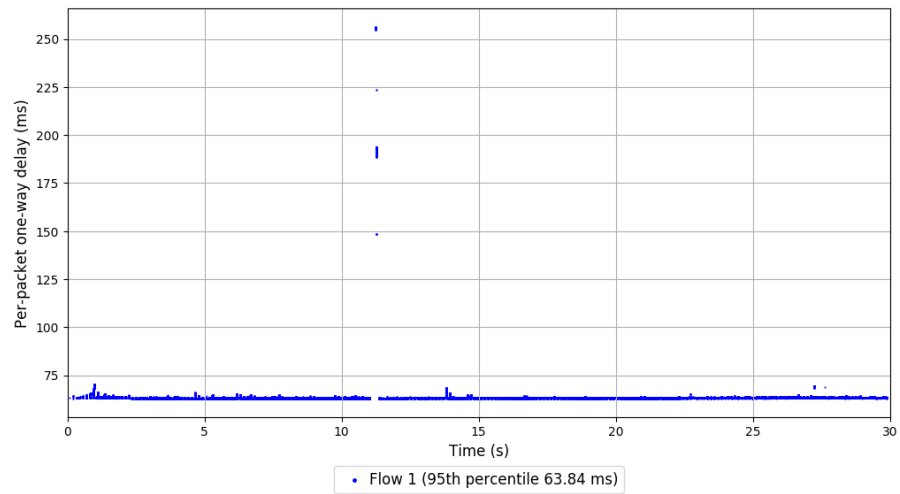
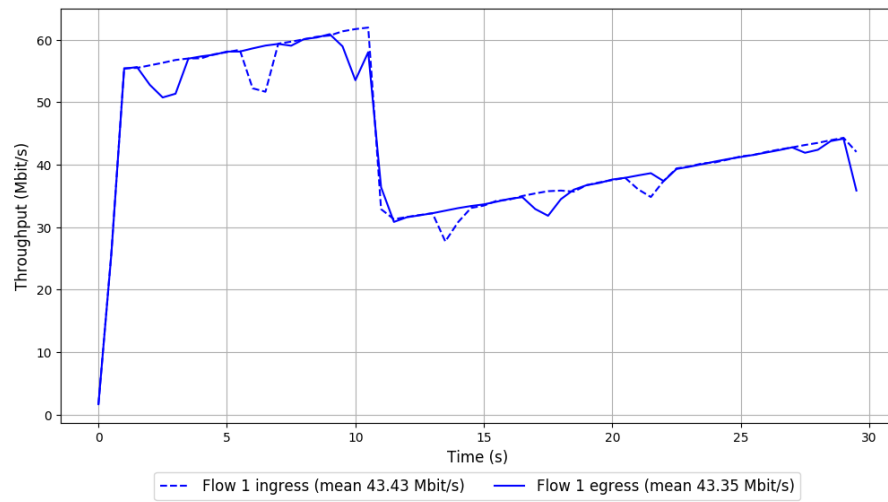
-- Flow 1:

Average throughput: 43.35 Mbit/s

95th percentile per-packet one-way delay: 63.843 ms

Loss rate: 0.60%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 03:50:38

End at: 2018-01-26 03:51:08

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.58 Mbit/s

95th percentile per-packet one-way delay: 64.052 ms

Loss rate: 0.43%

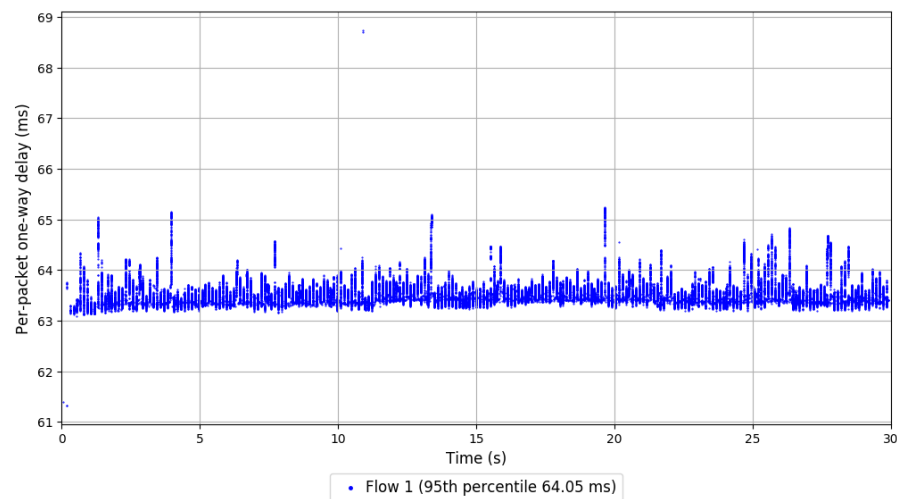
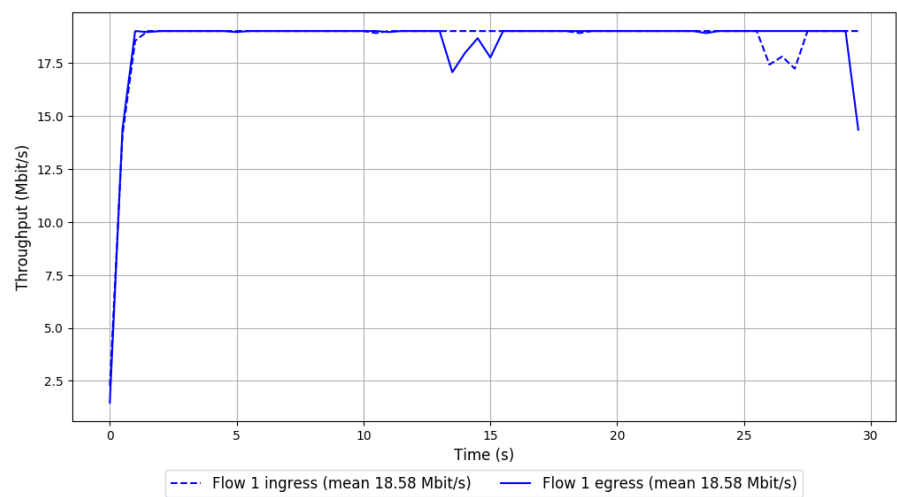
-- Flow 1:

Average throughput: 18.58 Mbit/s

95th percentile per-packet one-way delay: 64.052 ms

Loss rate: 0.43%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 04:02:48

End at: 2018-01-26 04:03:18

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 0.31%

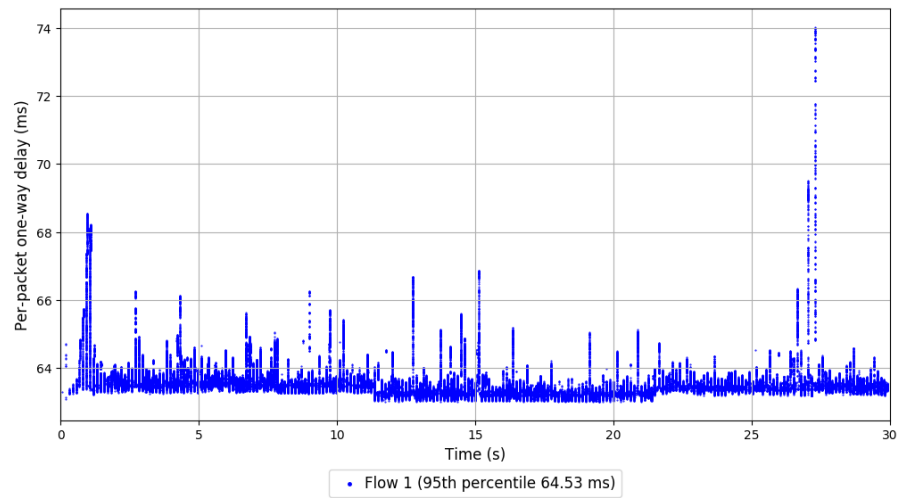
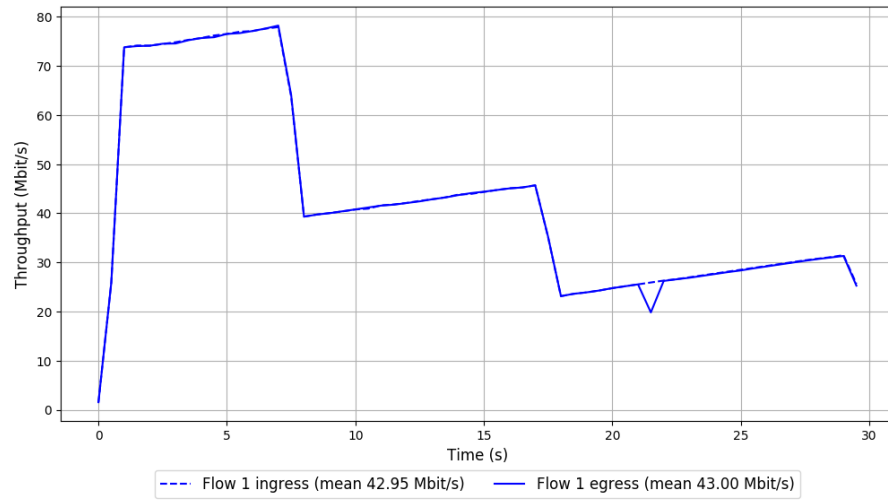
-- Flow 1:

Average throughput: 43.00 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 0.31%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 04:15:06

End at: 2018-01-26 04:15:36

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 67.363 ms

Loss rate: 0.39%

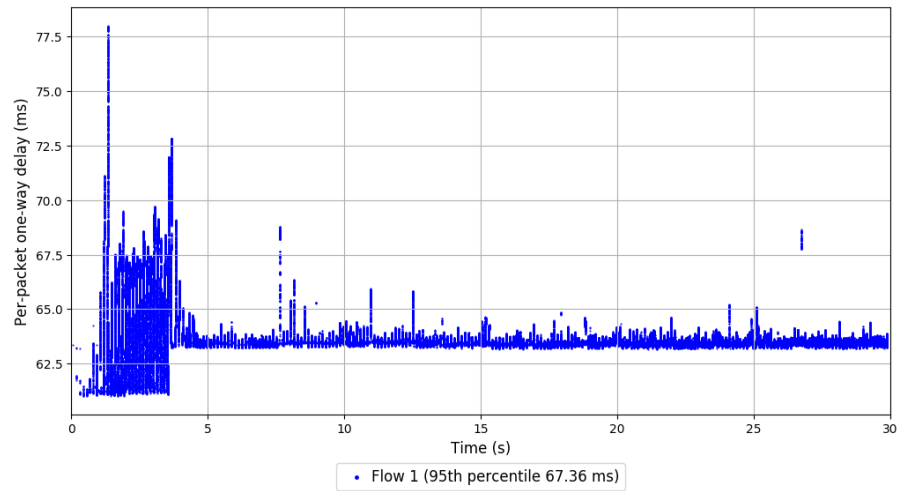
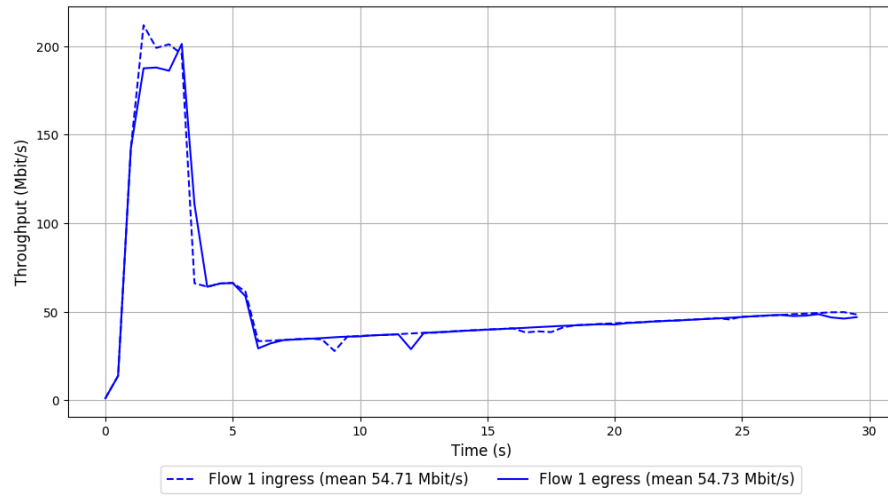
-- Flow 1:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 67.363 ms

Loss rate: 0.39%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 04:27:25

End at: 2018-01-26 04:27:55

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 63.517 ms

Loss rate: 0.40%

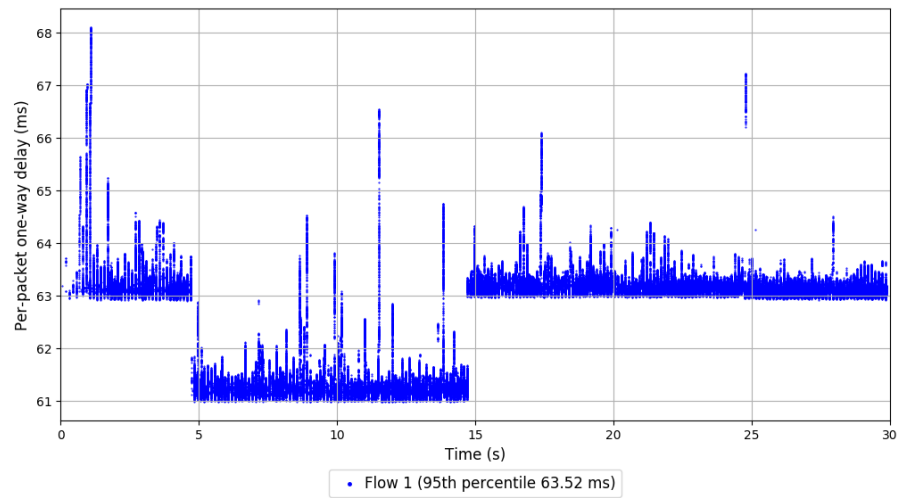
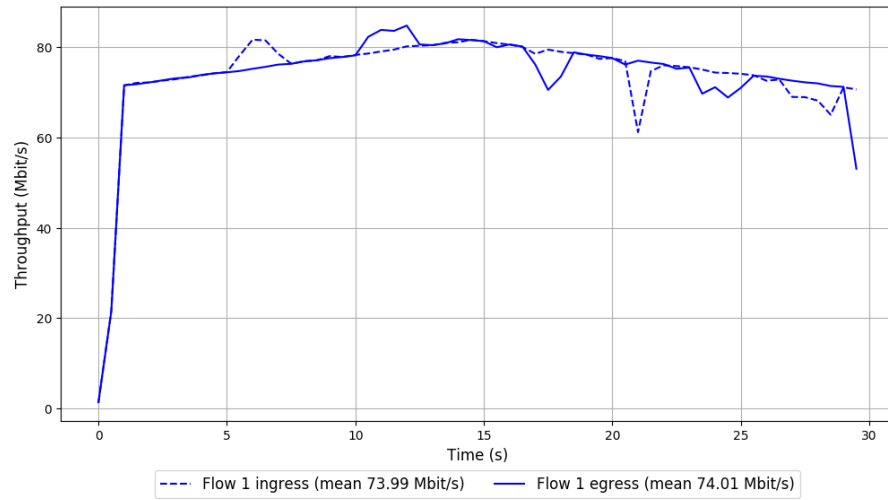
-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 63.517 ms

Loss rate: 0.40%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 04:39:33

End at: 2018-01-26 04:40:03

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.31%

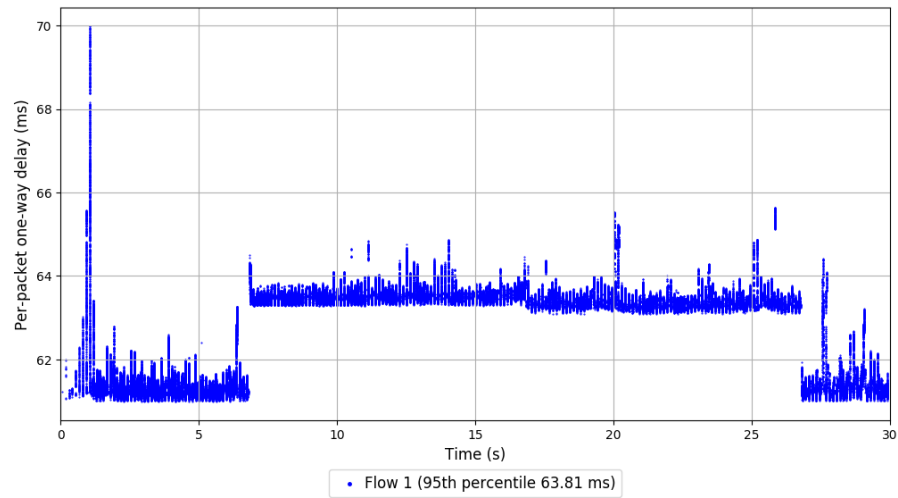
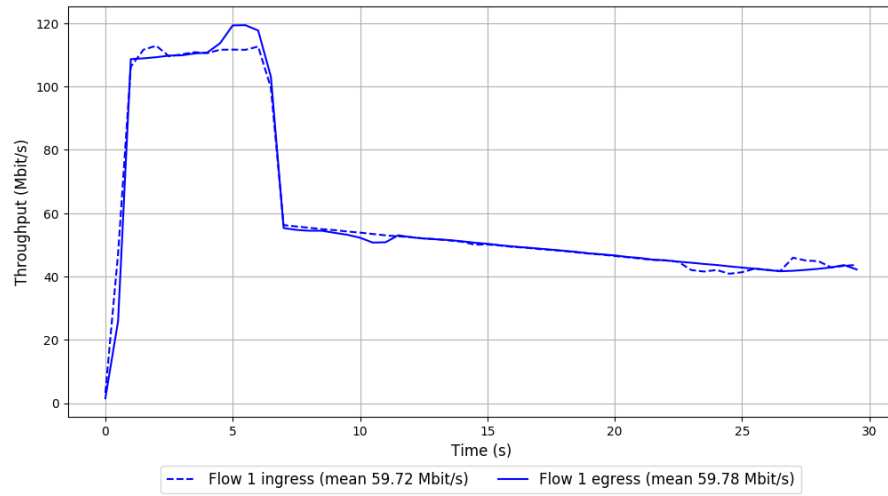
-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.31%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 04:51:41

End at: 2018-01-26 04:52:11

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.78 Mbit/s

95th percentile per-packet one-way delay: 63.783 ms

Loss rate: 0.43%

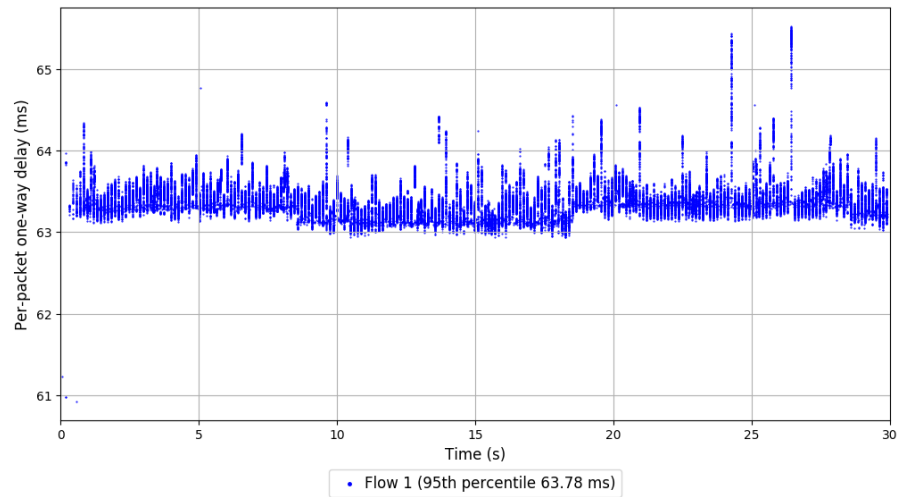
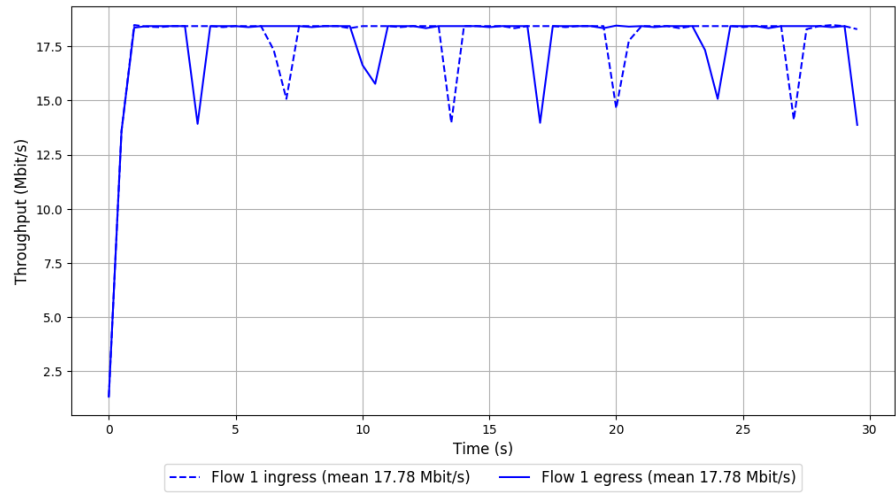
-- Flow 1:

Average throughput: 17.78 Mbit/s

95th percentile per-packet one-way delay: 63.783 ms

Loss rate: 0.43%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 05:03:45

End at: 2018-01-26 05:04:15

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.50 Mbit/s

95th percentile per-packet one-way delay: 70.520 ms

Loss rate: 0.20%

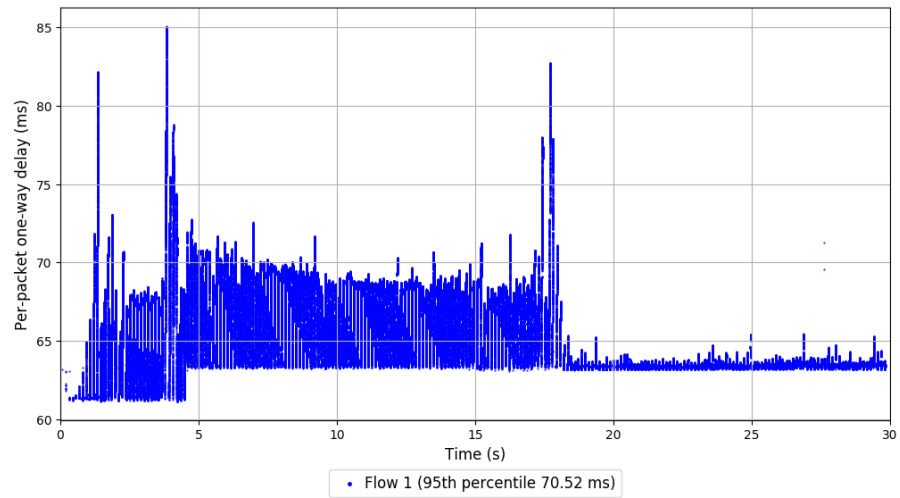
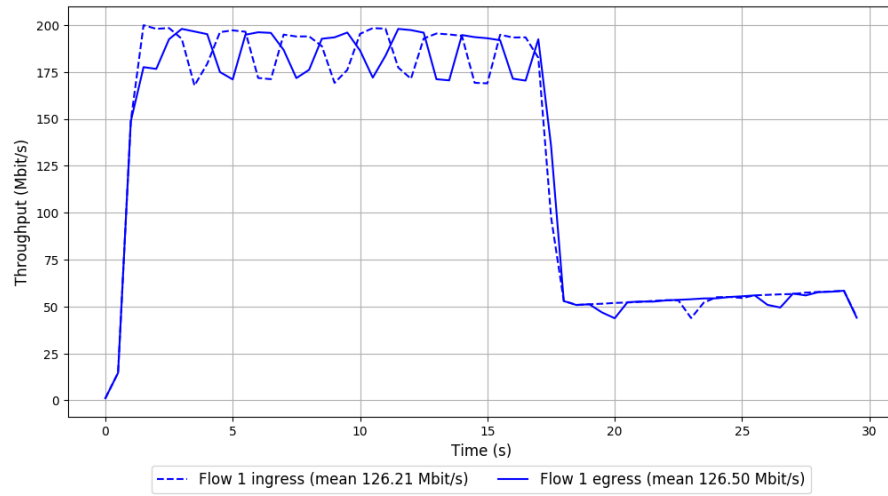
-- Flow 1:

Average throughput: 126.50 Mbit/s

95th percentile per-packet one-way delay: 70.520 ms

Loss rate: 0.20%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 05:15:55

End at: 2018-01-26 05:16:25

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.63 Mbit/s

95th percentile per-packet one-way delay: 62.371 ms

Loss rate: 0.29%

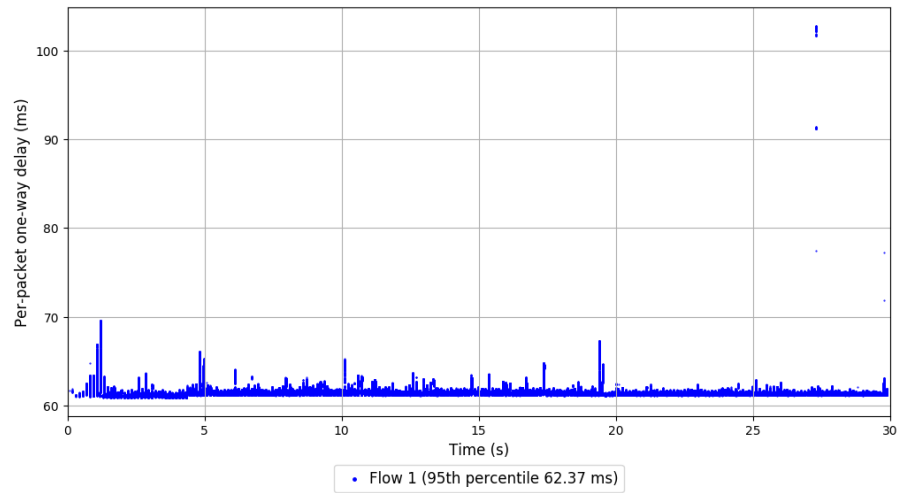
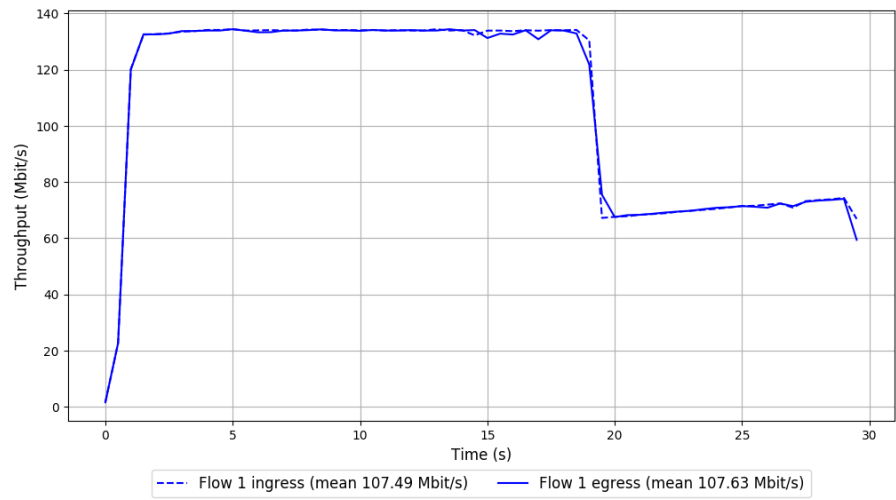
-- Flow 1:

Average throughput: 107.63 Mbit/s

95th percentile per-packet one-way delay: 62.371 ms

Loss rate: 0.29%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 05:27:57

End at: 2018-01-26 05:28:27

Below is generated by plot.py at 2018-01-26 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.67 Mbit/s

95th percentile per-packet one-way delay: 63.808 ms

Loss rate: 0.37%

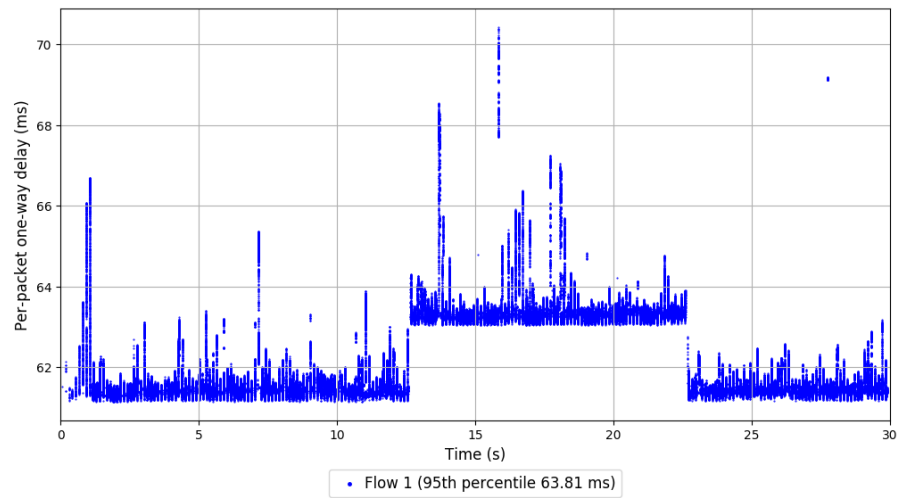
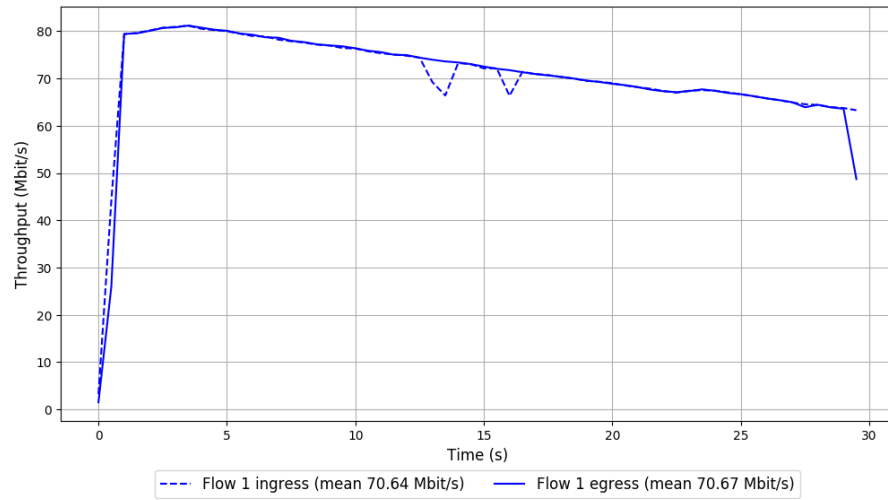
-- Flow 1:

Average throughput: 70.67 Mbit/s

95th percentile per-packet one-way delay: 63.808 ms

Loss rate: 0.37%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-26 03:33:15

End at: 2018-01-26 03:33:45

Below is generated by plot.py at 2018-01-26 08:05:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.53 Mbit/s

95th percentile per-packet one-way delay: 114.317 ms

Loss rate: 2.37%

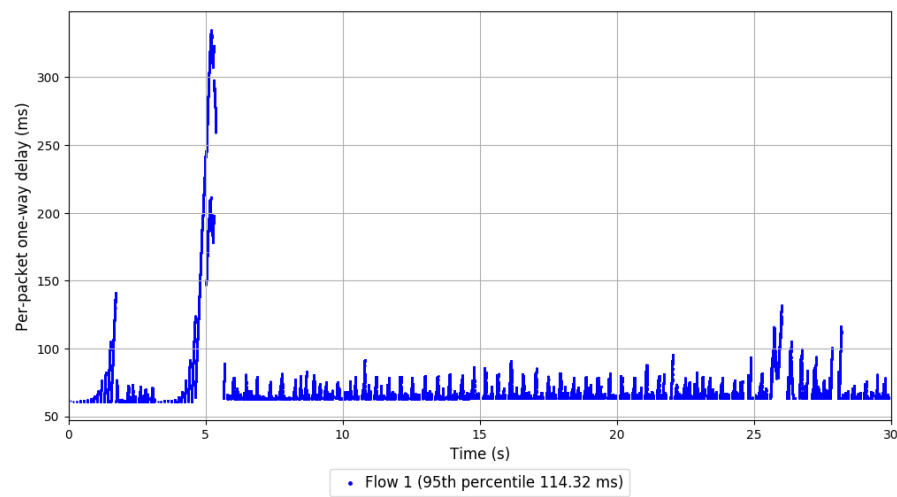
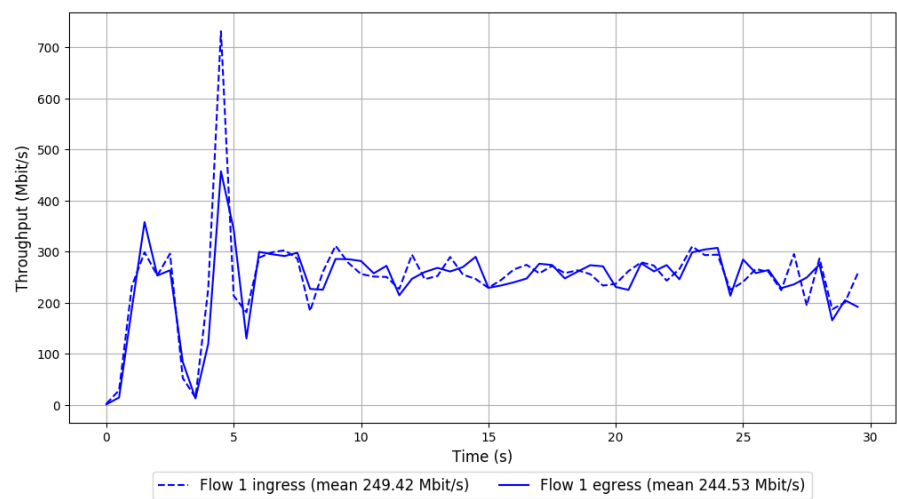
-- Flow 1:

Average throughput: 244.53 Mbit/s

95th percentile per-packet one-way delay: 114.317 ms

Loss rate: 2.37%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-26 03:45:22

End at: 2018-01-26 03:45:52

Below is generated by plot.py at 2018-01-26 08:06:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.22 Mbit/s

95th percentile per-packet one-way delay: 89.525 ms

Loss rate: 0.82%

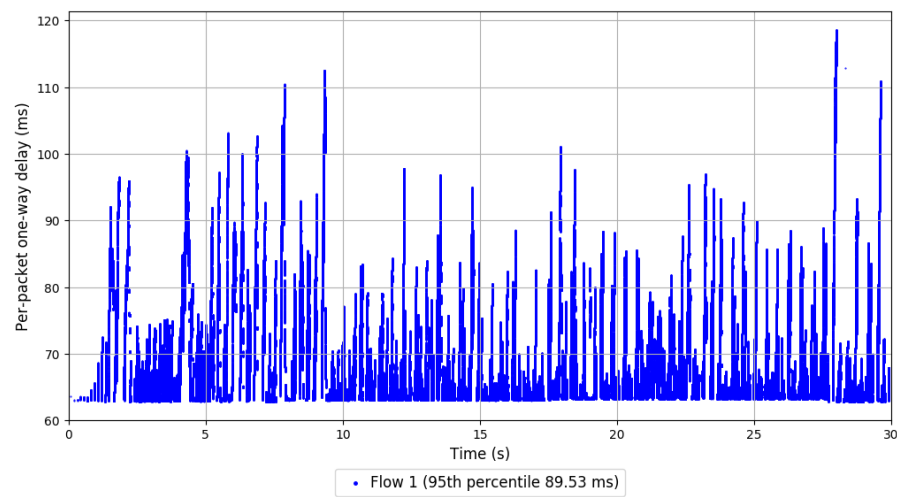
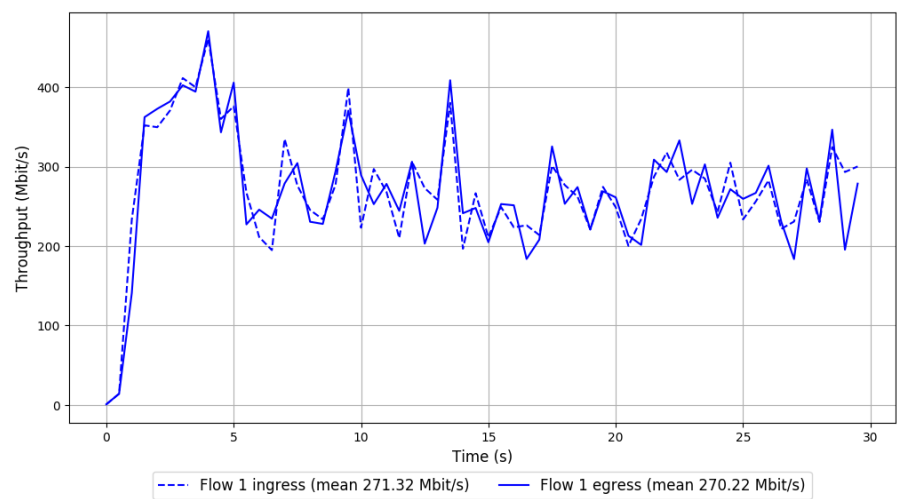
-- Flow 1:

Average throughput: 270.22 Mbit/s

95th percentile per-packet one-way delay: 89.525 ms

Loss rate: 0.82%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-26 03:57:33

End at: 2018-01-26 03:58:03

Below is generated by plot.py at 2018-01-26 08:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.78 Mbit/s

95th percentile per-packet one-way delay: 186.407 ms

Loss rate: 1.11%

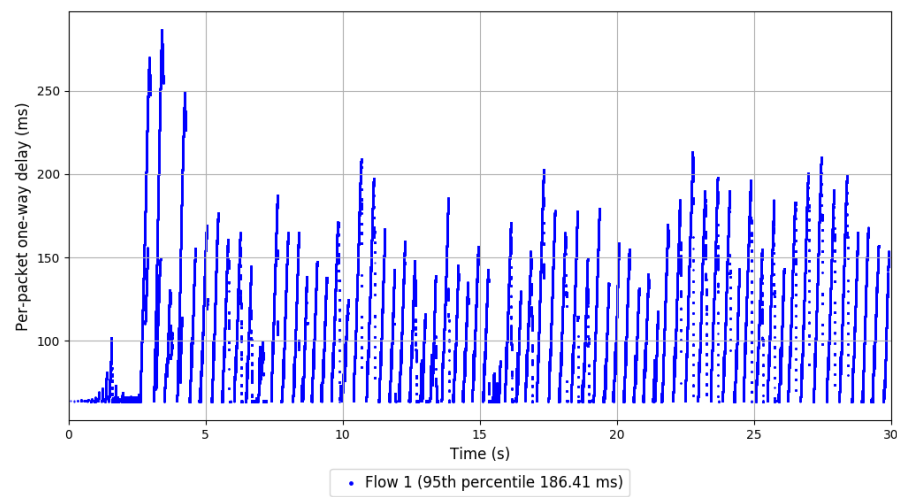
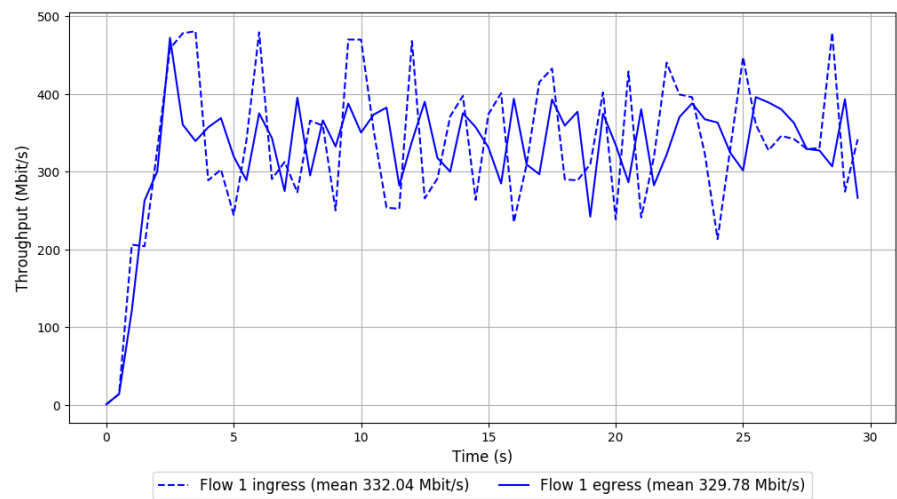
-- Flow 1:

Average throughput: 329.78 Mbit/s

95th percentile per-packet one-way delay: 186.407 ms

Loss rate: 1.11%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-26 04:09:56

End at: 2018-01-26 04:10:26

Below is generated by plot.py at 2018-01-26 08:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.04 Mbit/s

95th percentile per-packet one-way delay: 105.235 ms

Loss rate: 1.63%

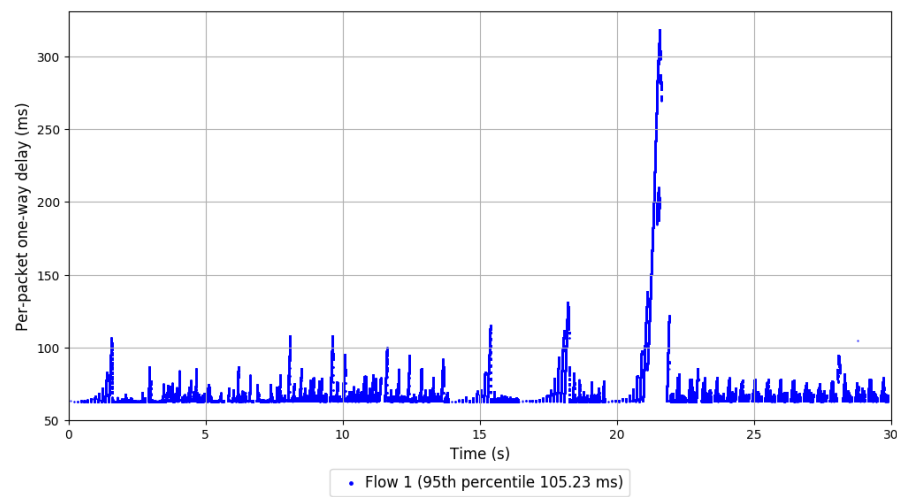
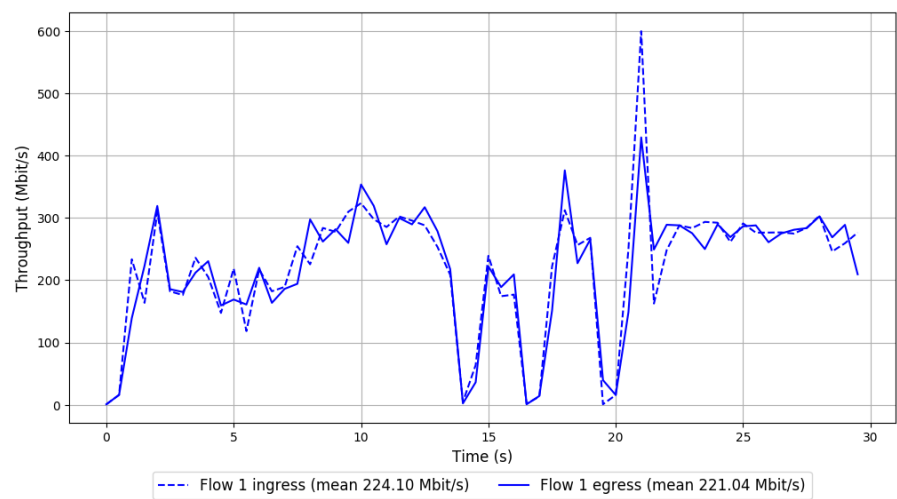
-- Flow 1:

Average throughput: 221.04 Mbit/s

95th percentile per-packet one-way delay: 105.235 ms

Loss rate: 1.63%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-26 04:22:14

End at: 2018-01-26 04:22:44

Below is generated by plot.py at 2018-01-26 08:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.73 Mbit/s

95th percentile per-packet one-way delay: 113.425 ms

Loss rate: 2.73%

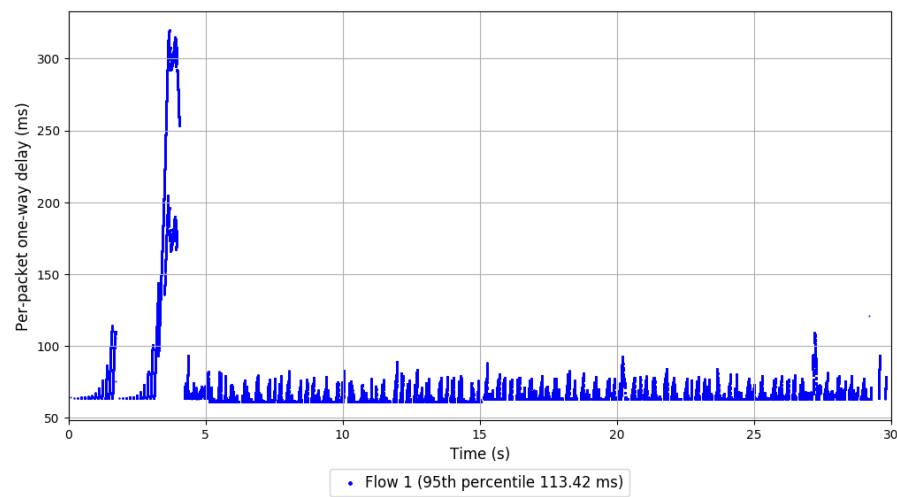
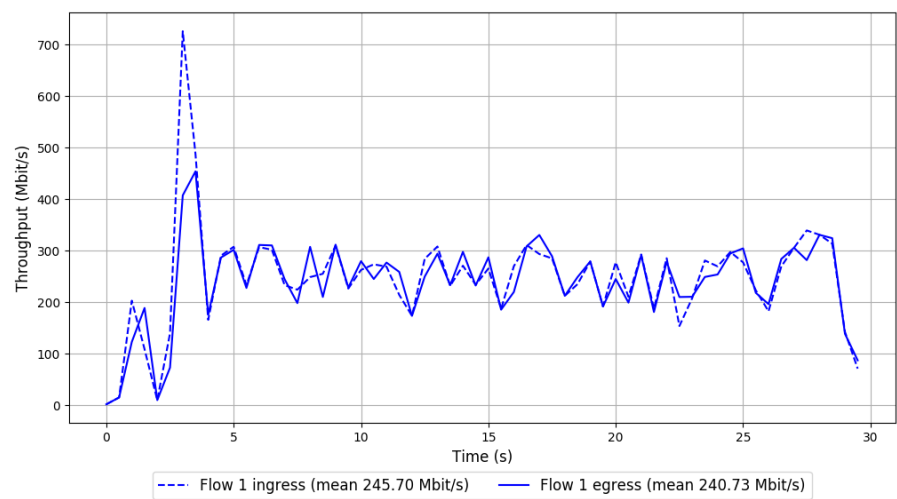
-- Flow 1:

Average throughput: 240.73 Mbit/s

95th percentile per-packet one-way delay: 113.425 ms

Loss rate: 2.73%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-26 04:34:23

End at: 2018-01-26 04:34:53

Below is generated by plot.py at 2018-01-26 08:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.33 Mbit/s

95th percentile per-packet one-way delay: 95.102 ms

Loss rate: 1.98%

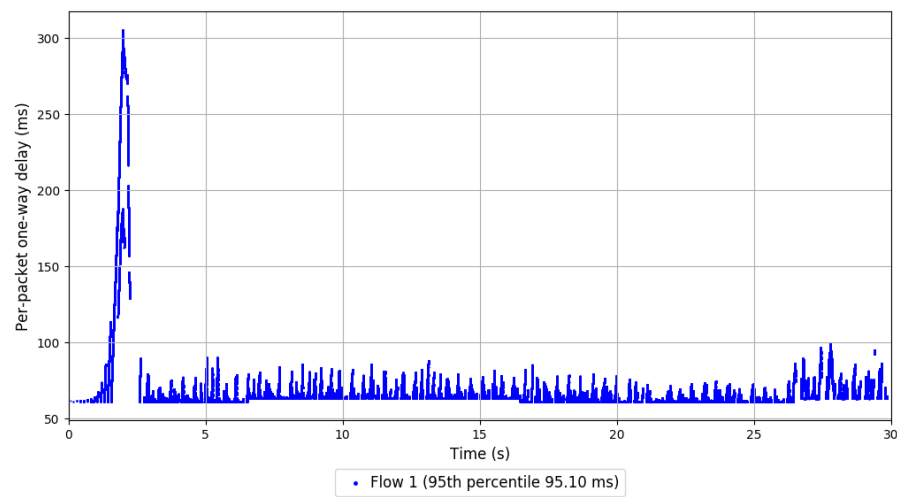
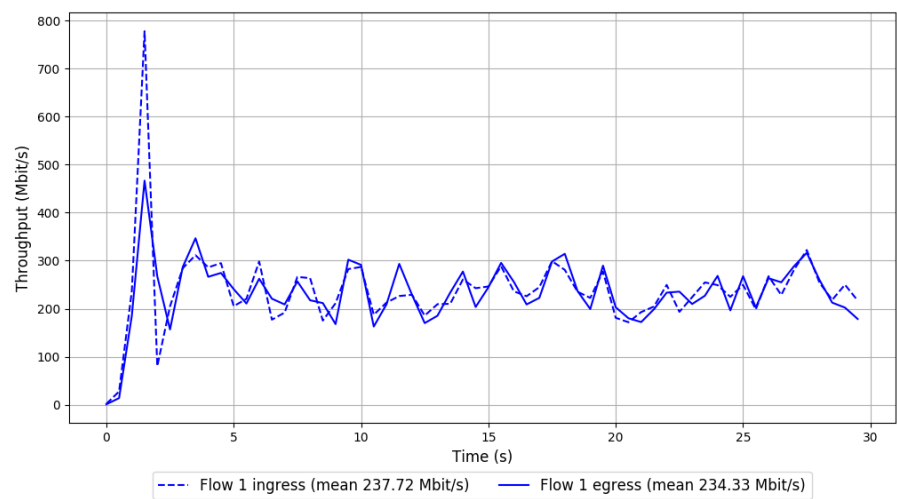
-- Flow 1:

Average throughput: 234.33 Mbit/s

95th percentile per-packet one-way delay: 95.102 ms

Loss rate: 1.98%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-26 04:46:32

End at: 2018-01-26 04:47:02

Below is generated by plot.py at 2018-01-26 08:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.88 Mbit/s

95th percentile per-packet one-way delay: 107.533 ms

Loss rate: 0.08%

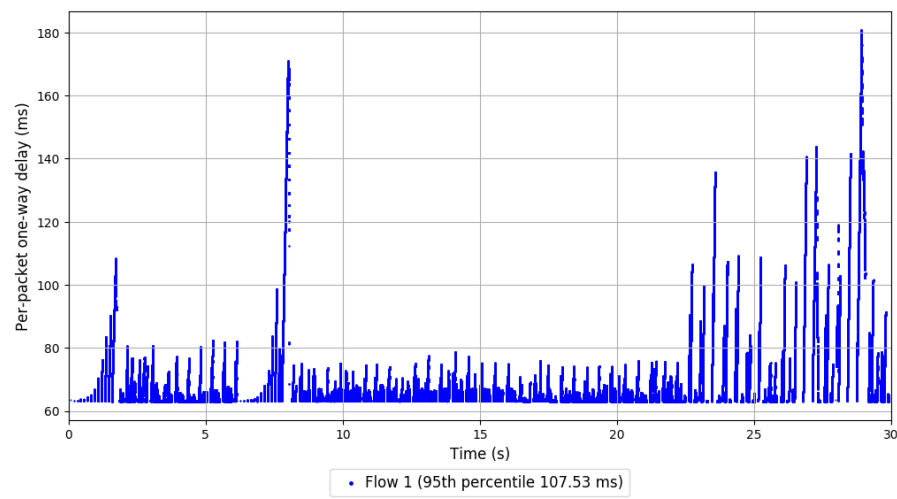
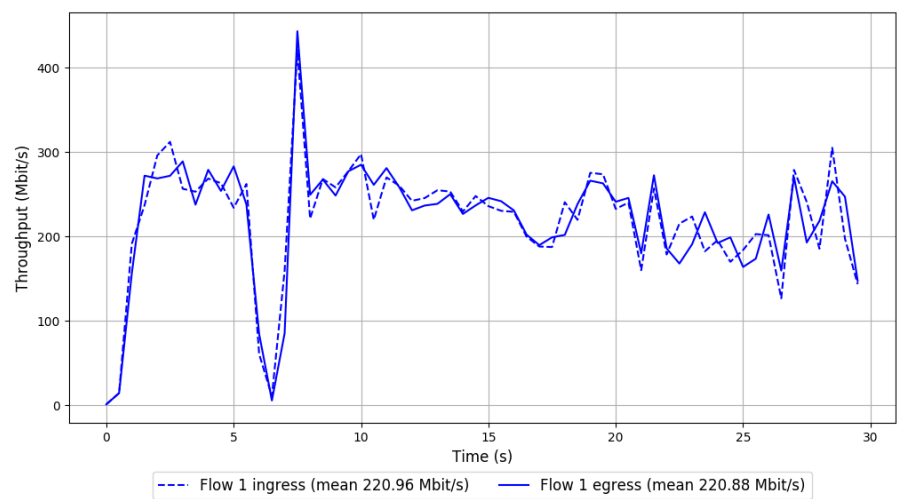
-- Flow 1:

Average throughput: 220.88 Mbit/s

95th percentile per-packet one-way delay: 107.533 ms

Loss rate: 0.08%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-26 04:58:34

End at: 2018-01-26 04:59:04

Below is generated by plot.py at 2018-01-26 08:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.48 Mbit/s

95th percentile per-packet one-way delay: 101.174 ms

Loss rate: 0.20%

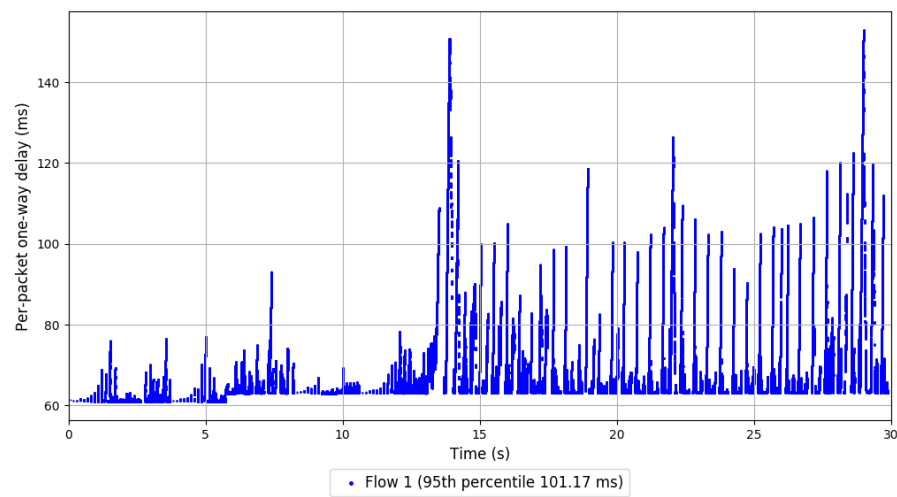
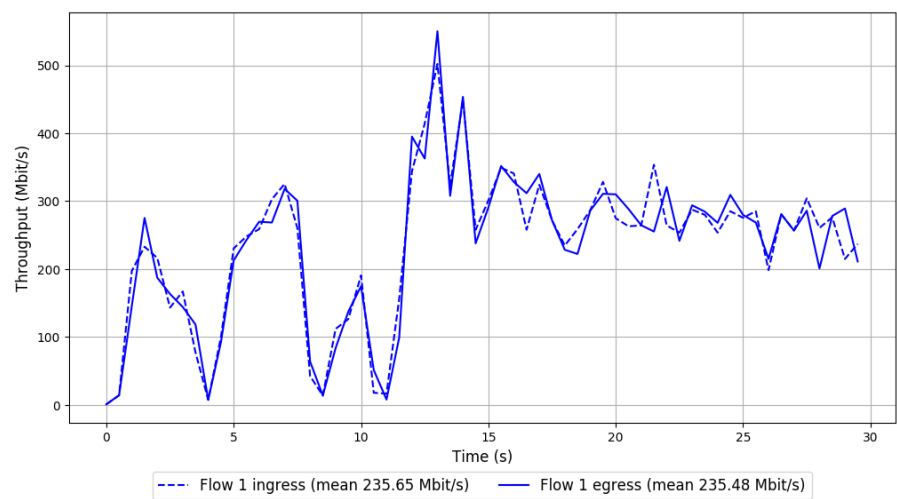
-- Flow 1:

Average throughput: 235.48 Mbit/s

95th percentile per-packet one-way delay: 101.174 ms

Loss rate: 0.20%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-26 05:10:48

End at: 2018-01-26 05:11:18

Below is generated by plot.py at 2018-01-26 08:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.85 Mbit/s

95th percentile per-packet one-way delay: 78.240 ms

Loss rate: 1.03%

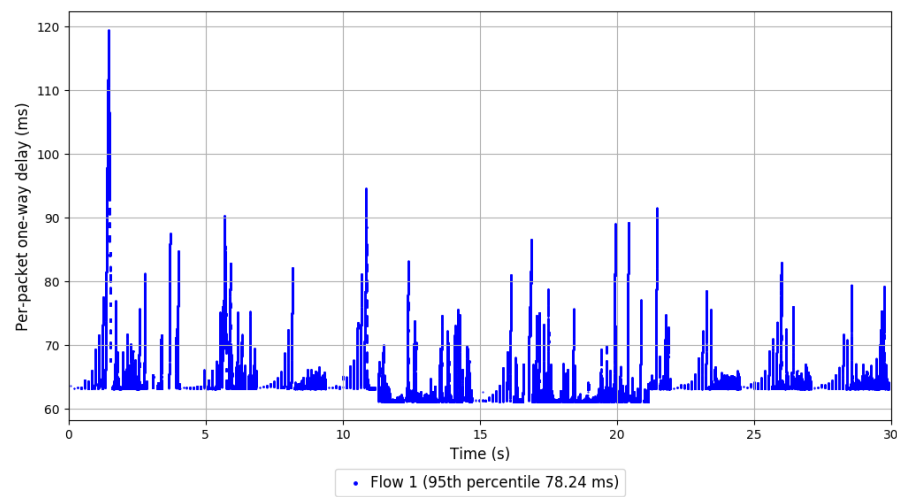
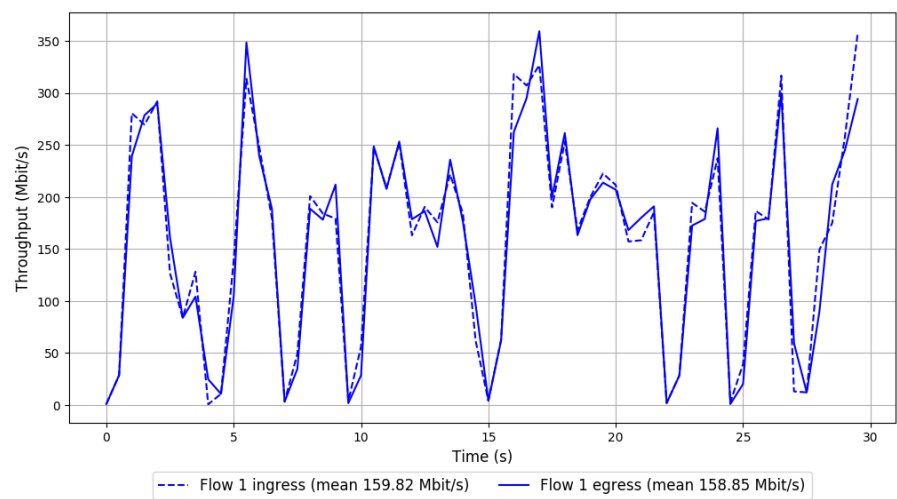
-- Flow 1:

Average throughput: 158.85 Mbit/s

95th percentile per-packet one-way delay: 78.240 ms

Loss rate: 1.03%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-26 05:22:47

End at: 2018-01-26 05:23:17

Below is generated by plot.py at 2018-01-26 08:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.53 Mbit/s

95th percentile per-packet one-way delay: 85.330 ms

Loss rate: 0.66%

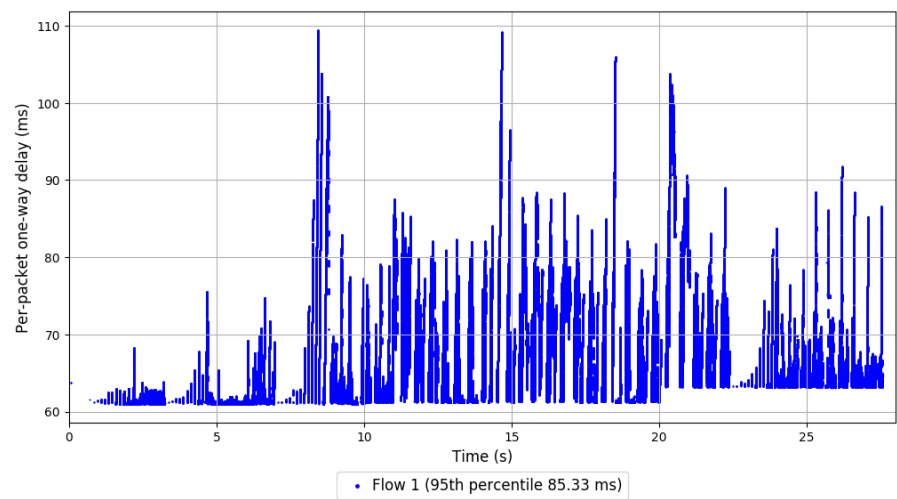
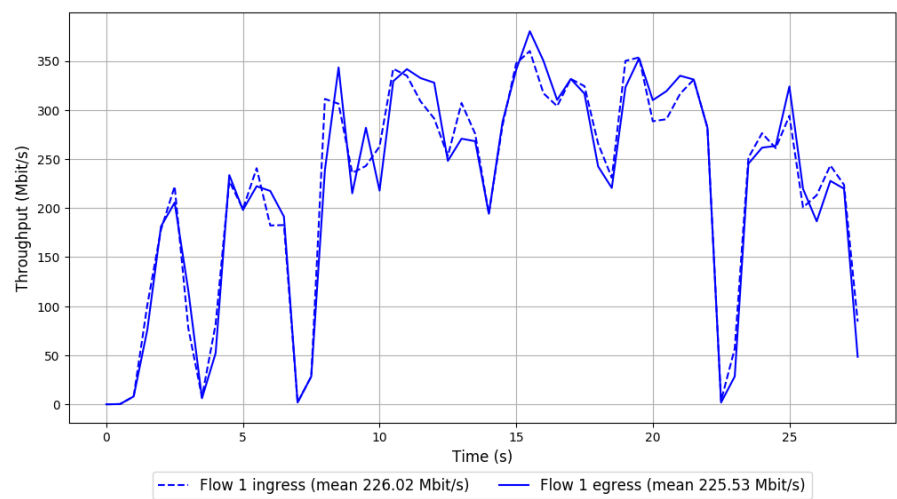
-- Flow 1:

Average throughput: 225.53 Mbit/s

95th percentile per-packet one-way delay: 85.330 ms

Loss rate: 0.66%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-26 03:31:38

End at: 2018-01-26 03:32:08

Below is generated by plot.py at 2018-01-26 08:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 63.271 ms

Loss rate: 0.41%

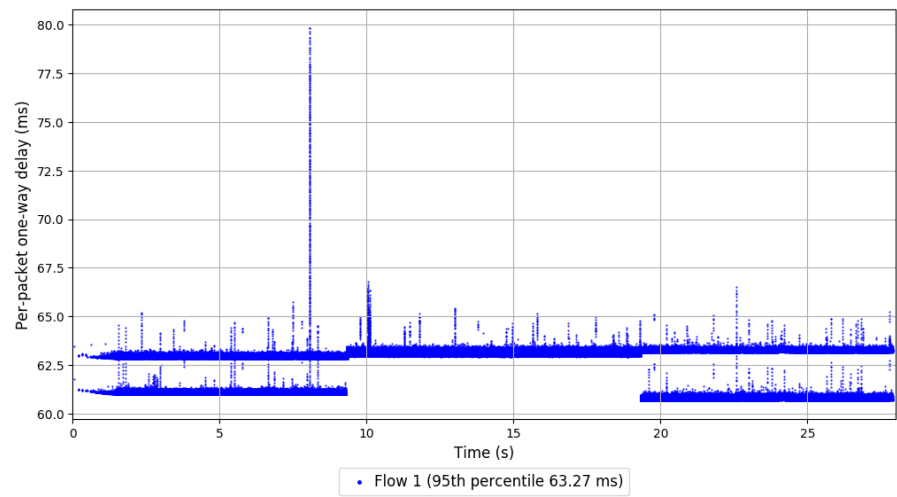
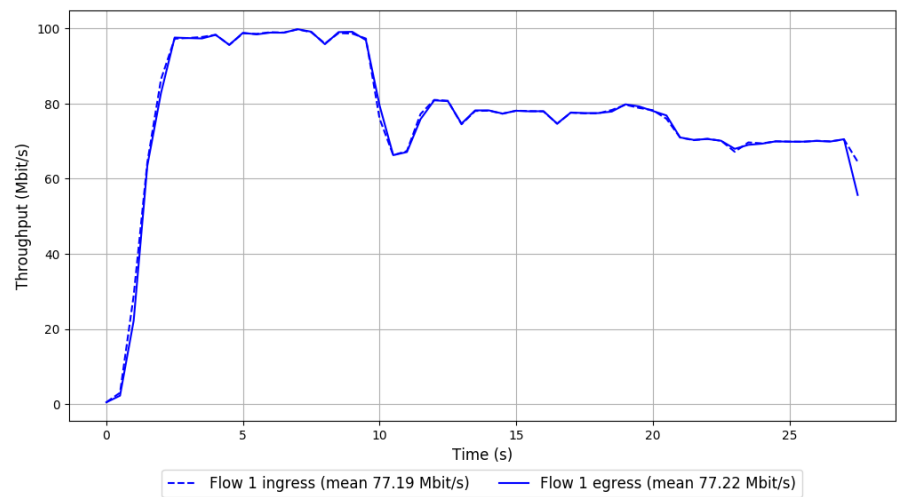
-- Flow 1:

Average throughput: 77.22 Mbit/s

95th percentile per-packet one-way delay: 63.271 ms

Loss rate: 0.41%

Run 1: Report of Copa — Data Link

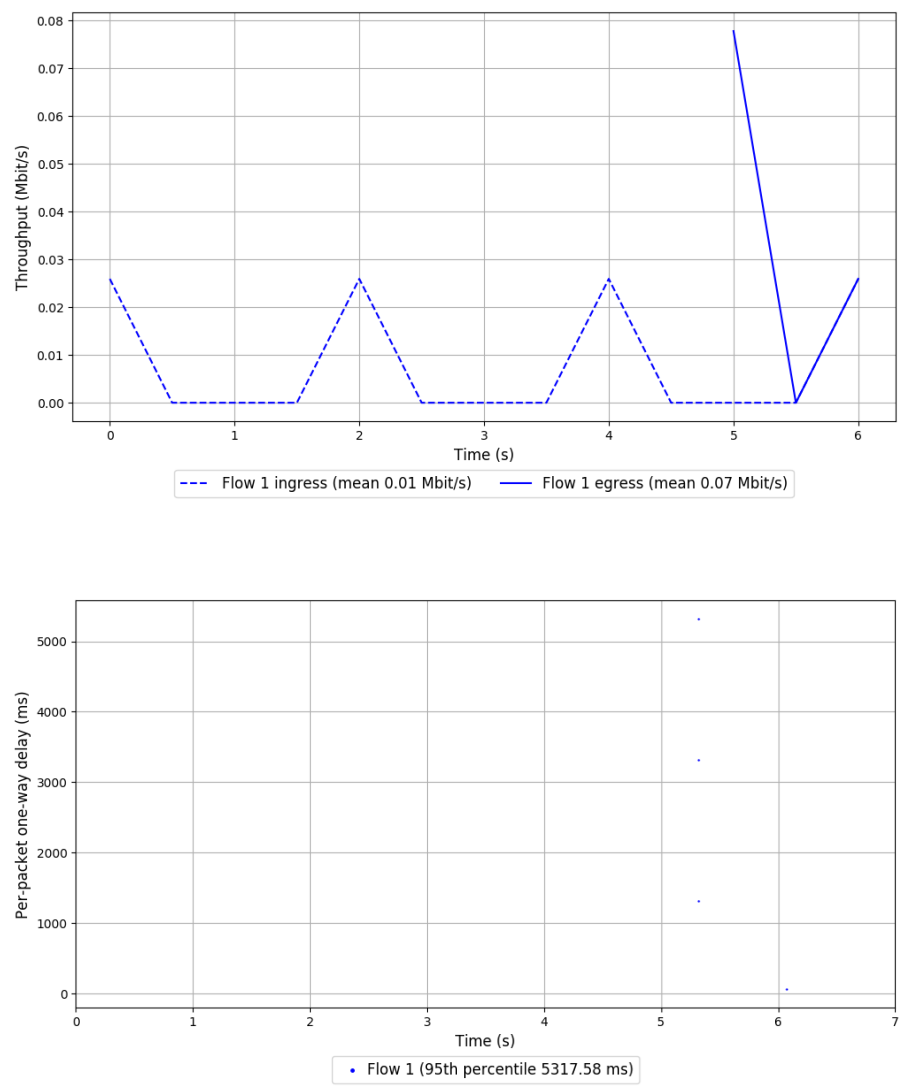


Run 2: Statistics of Copa

Start at: 2018-01-26 03:43:53

End at: 2018-01-26 03:44:23

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-26 03:55:55

End at: 2018-01-26 03:56:25

Below is generated by plot.py at 2018-01-26 08:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 63.176 ms

Loss rate: 0.43%

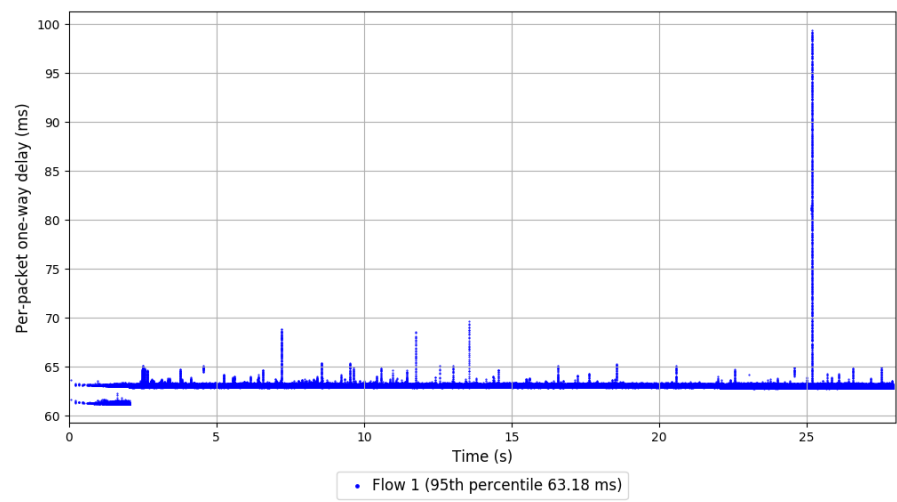
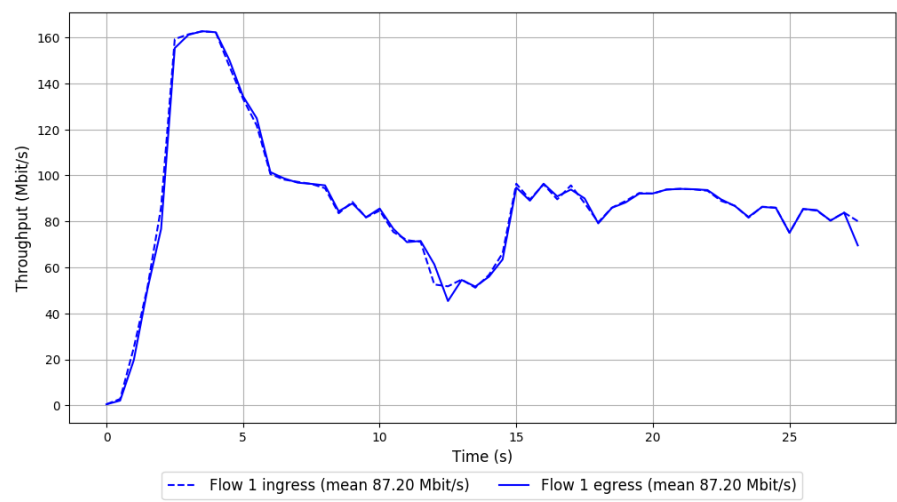
-- Flow 1:

Average throughput: 87.20 Mbit/s

95th percentile per-packet one-way delay: 63.176 ms

Loss rate: 0.43%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-26 04:08:20

End at: 2018-01-26 04:08:50

Below is generated by plot.py at 2018-01-26 08:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 63.204 ms

Loss rate: 0.42%

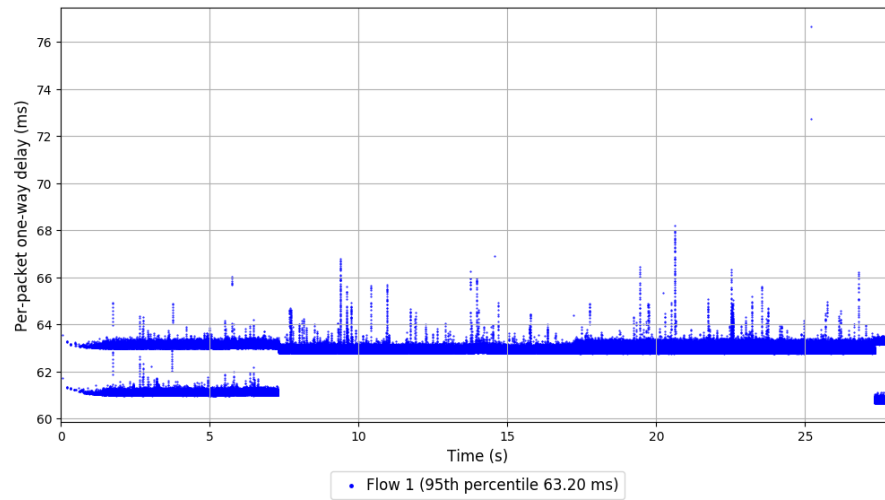
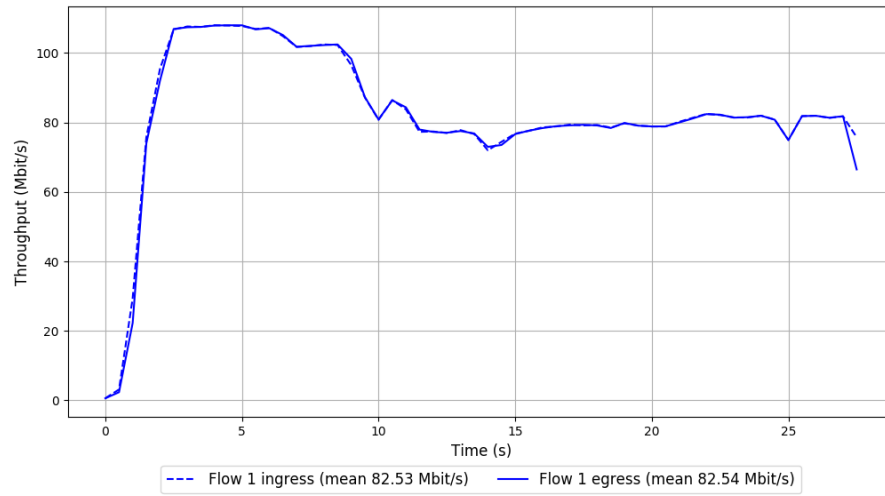
-- Flow 1:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 63.204 ms

Loss rate: 0.42%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-26 04:20:37

End at: 2018-01-26 04:21:07

Below is generated by plot.py at 2018-01-26 08:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 63.257 ms

Loss rate: 0.37%

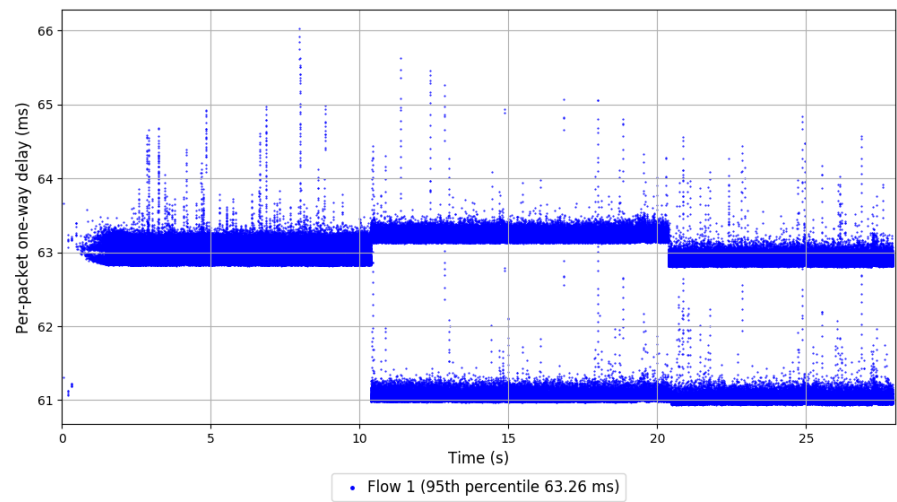
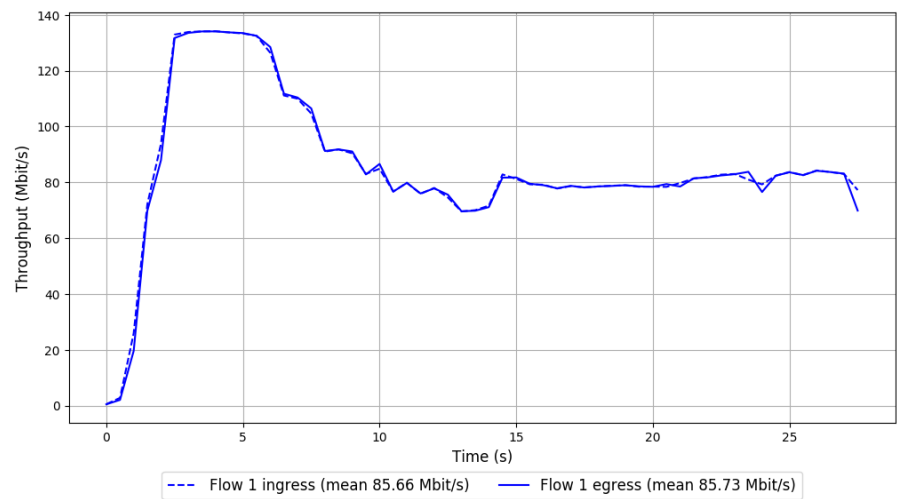
-- Flow 1:

Average throughput: 85.73 Mbit/s

95th percentile per-packet one-way delay: 63.257 ms

Loss rate: 0.37%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-26 04:32:45

End at: 2018-01-26 04:33:15

Below is generated by plot.py at 2018-01-26 08:09:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.07 Mbit/s

95th percentile per-packet one-way delay: 63.300 ms

Loss rate: 0.40%

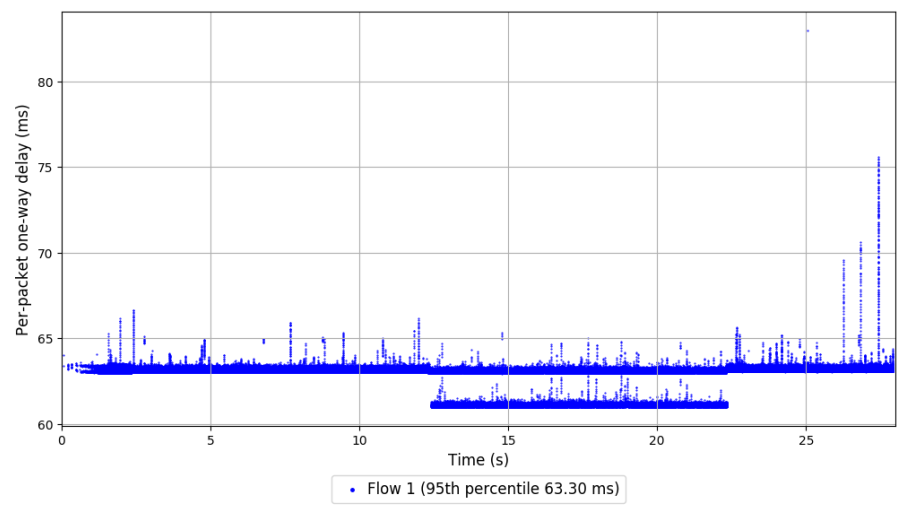
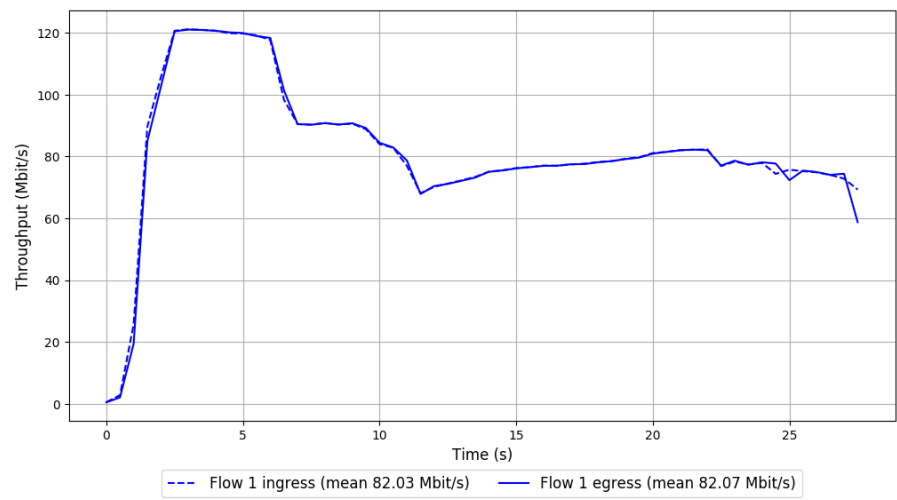
-- Flow 1:

Average throughput: 82.07 Mbit/s

95th percentile per-packet one-way delay: 63.300 ms

Loss rate: 0.40%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-26 04:44:58

End at: 2018-01-26 04:45:28

Below is generated by plot.py at 2018-01-26 08:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.36%

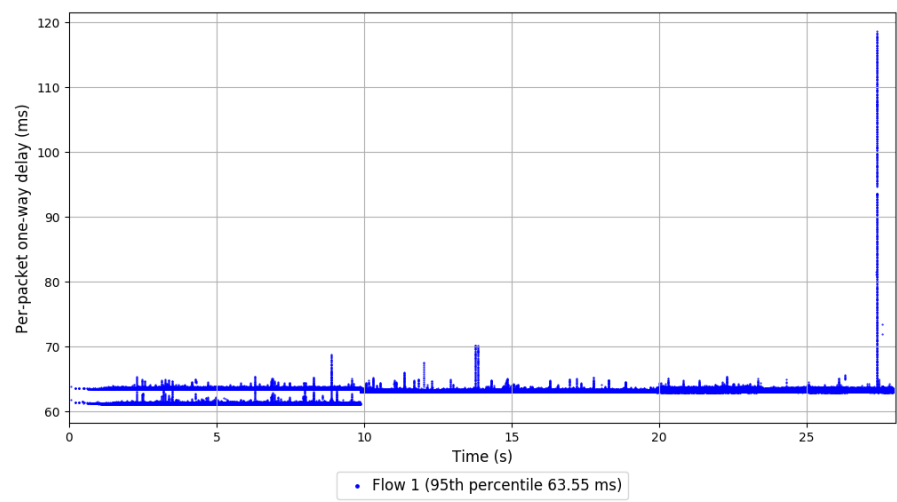
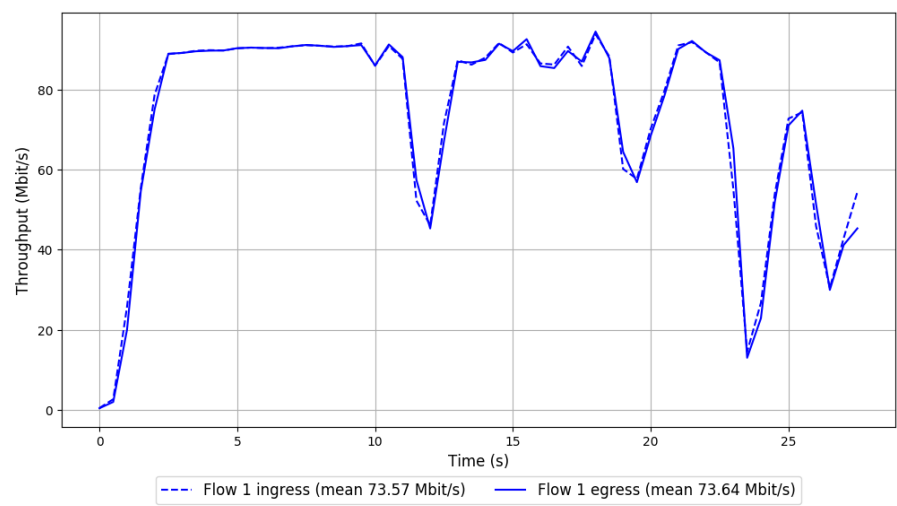
-- Flow 1:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.36%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-26 04:56:57

End at: 2018-01-26 04:57:27

Below is generated by plot.py at 2018-01-26 08:10:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.04 Mbit/s

95th percentile per-packet one-way delay: 63.289 ms

Loss rate: 0.46%

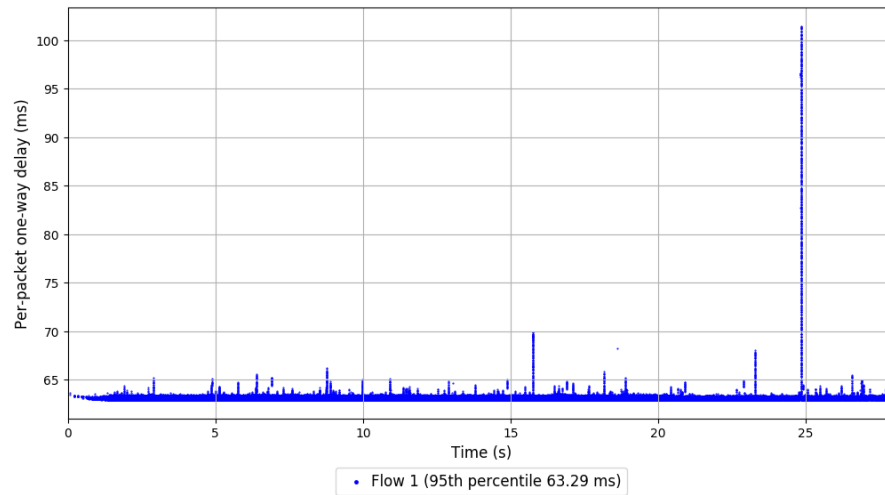
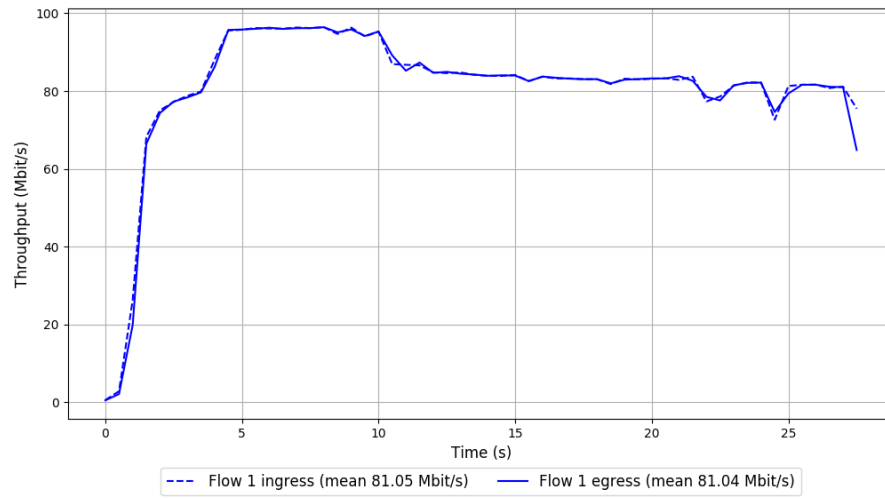
-- Flow 1:

Average throughput: 81.04 Mbit/s

95th percentile per-packet one-way delay: 63.289 ms

Loss rate: 0.46%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-26 05:09:14

End at: 2018-01-26 05:09:44

Below is generated by plot.py at 2018-01-26 08:10:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.42 Mbit/s

95th percentile per-packet one-way delay: 63.433 ms

Loss rate: 0.45%

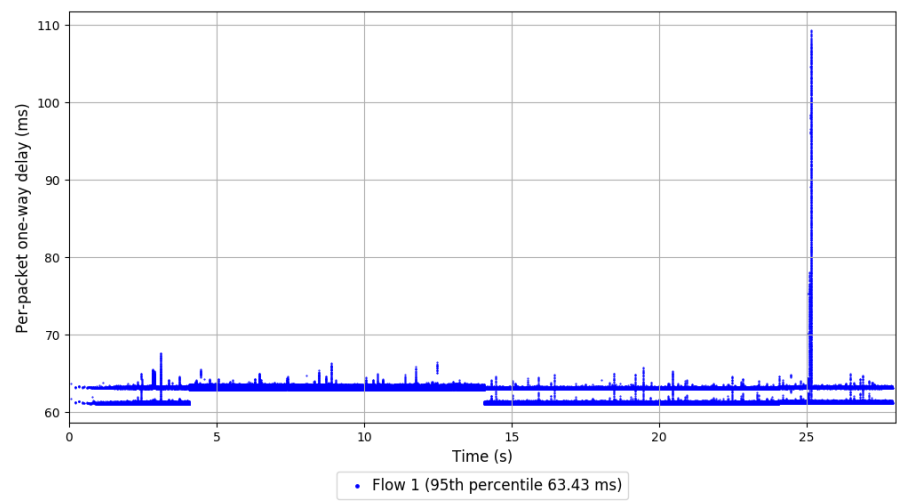
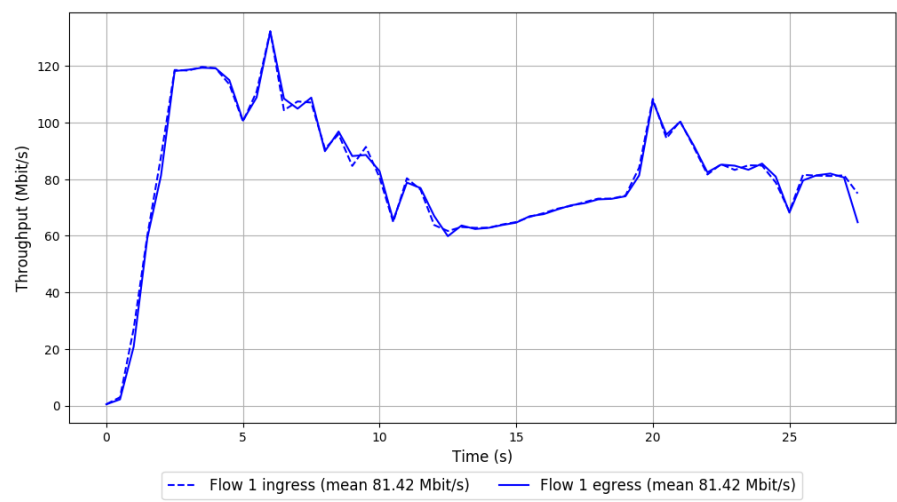
-- Flow 1:

Average throughput: 81.42 Mbit/s

95th percentile per-packet one-way delay: 63.433 ms

Loss rate: 0.45%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-26 05:21:11

End at: 2018-01-26 05:21:41

Below is generated by plot.py at 2018-01-26 08:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.46 Mbit/s

95th percentile per-packet one-way delay: 63.327 ms

Loss rate: 0.18%

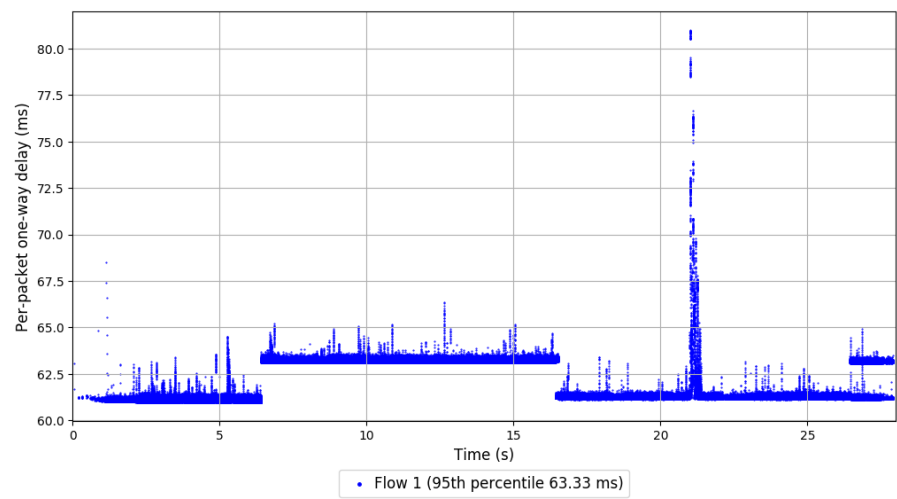
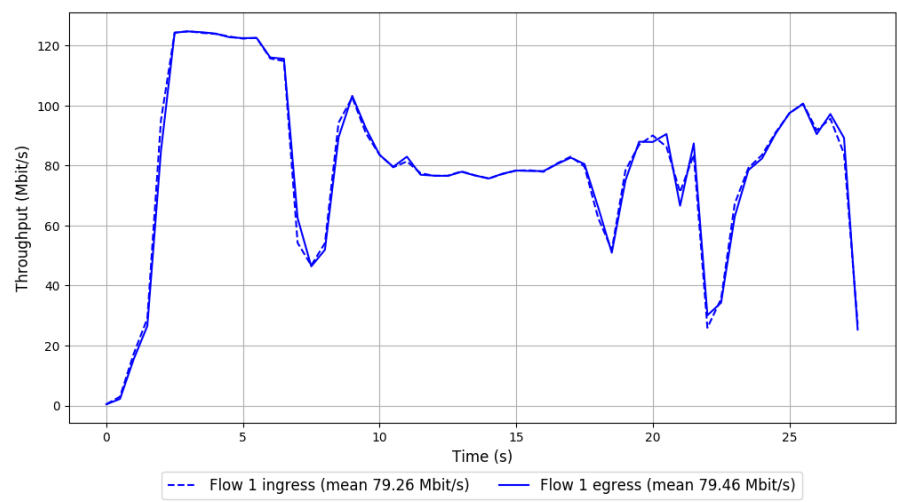
-- Flow 1:

Average throughput: 79.46 Mbit/s

95th percentile per-packet one-way delay: 63.327 ms

Loss rate: 0.18%

Run 10: Report of Copa — Data Link

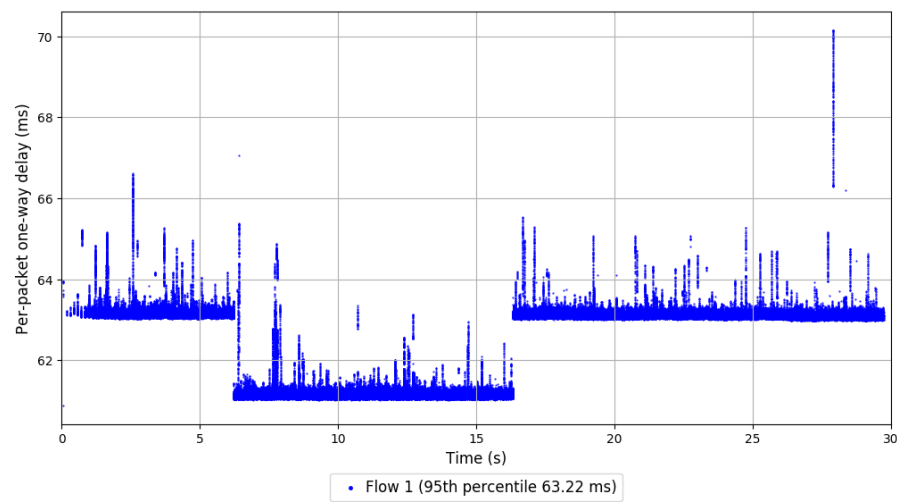
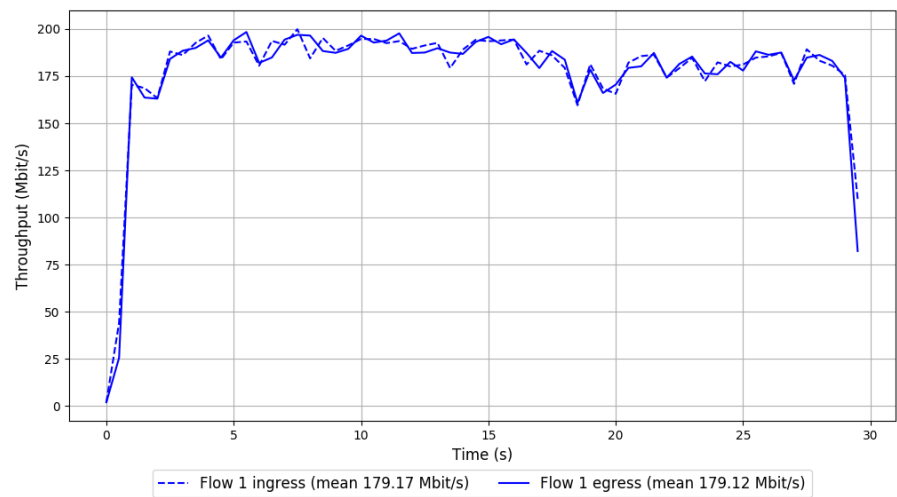


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 03:36:03
End at: 2018-01-26 03:36:33

# Below is generated by plot.py at 2018-01-26 08:11:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.12 Mbit/s
95th percentile per-packet one-way delay: 63.219 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 179.12 Mbit/s
95th percentile per-packet one-way delay: 63.219 ms
Loss rate: 0.45%
```


Run 1: Report of Indigo-2-256 — Data Link

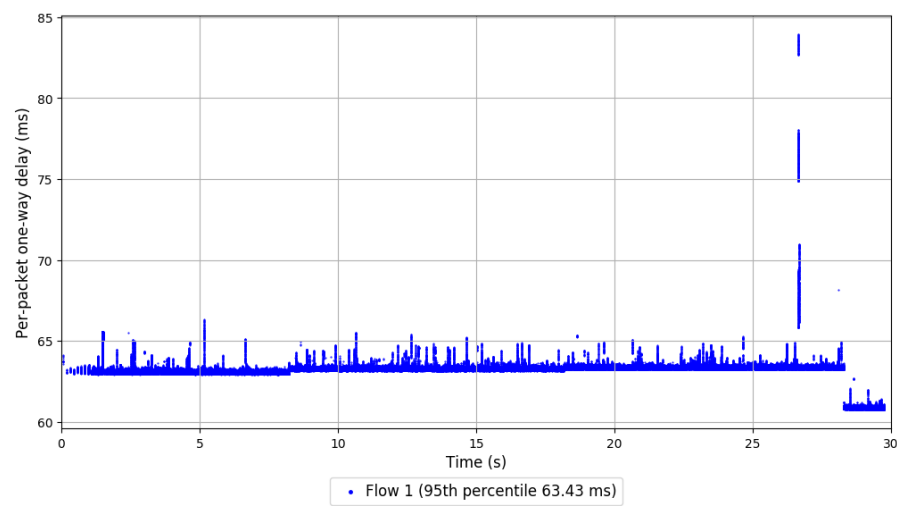
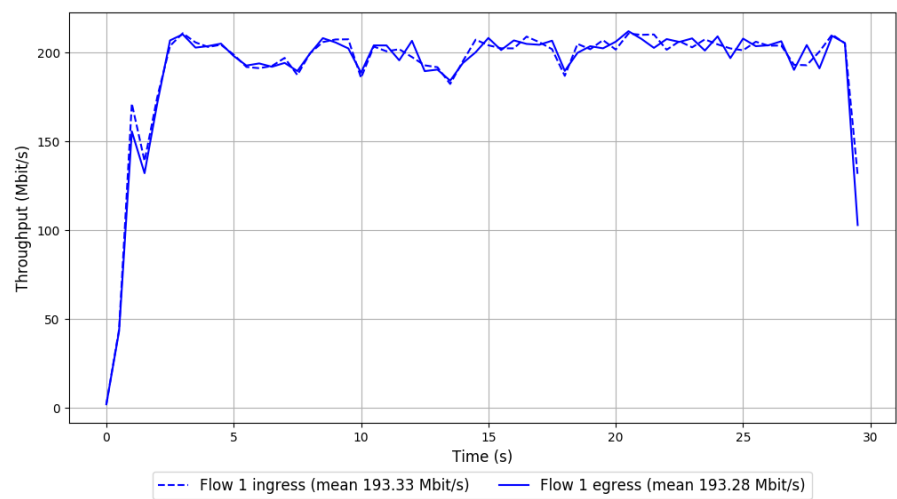


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 03:48:11
End at: 2018-01-26 03:48:41

# Below is generated by plot.py at 2018-01-26 08:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.28 Mbit/s
95th percentile per-packet one-way delay: 63.426 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 193.28 Mbit/s
95th percentile per-packet one-way delay: 63.426 ms
Loss rate: 0.45%
```

Run 2: Report of Indigo-2-256 — Data Link



Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 04:00:26

End at: 2018-01-26 04:00:56

Below is generated by plot.py at 2018-01-26 08:12:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.38 Mbit/s

95th percentile per-packet one-way delay: 63.362 ms

Loss rate: 0.47%

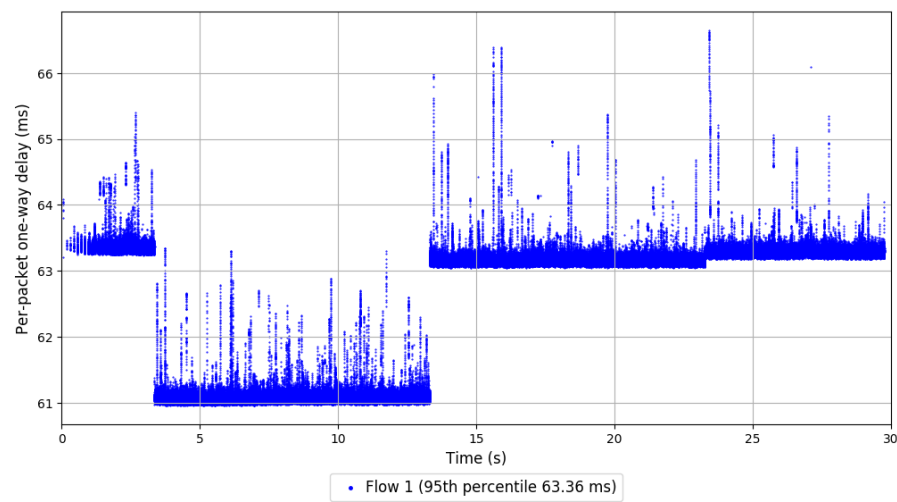
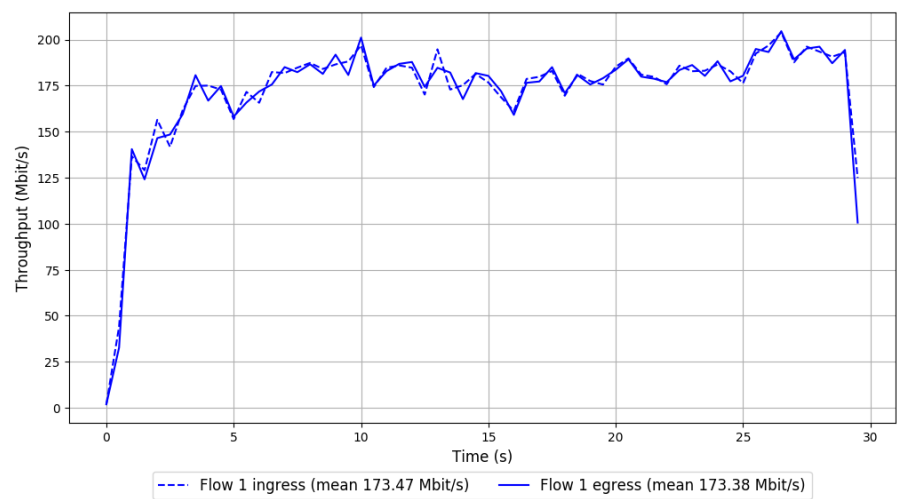
-- Flow 1:

Average throughput: 173.38 Mbit/s

95th percentile per-packet one-way delay: 63.362 ms

Loss rate: 0.47%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 04:12:42

End at: 2018-01-26 04:13:12

Below is generated by plot.py at 2018-01-26 08:12:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.41 Mbit/s

95th percentile per-packet one-way delay: 63.401 ms

Loss rate: 0.44%

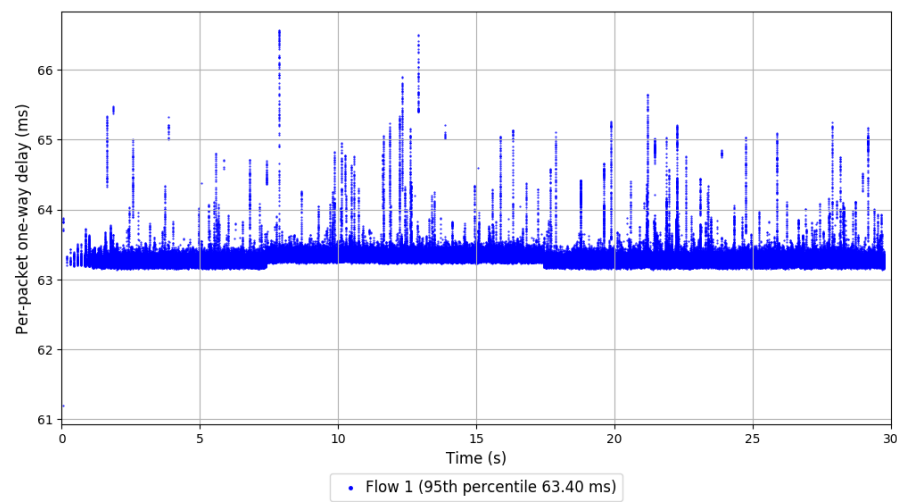
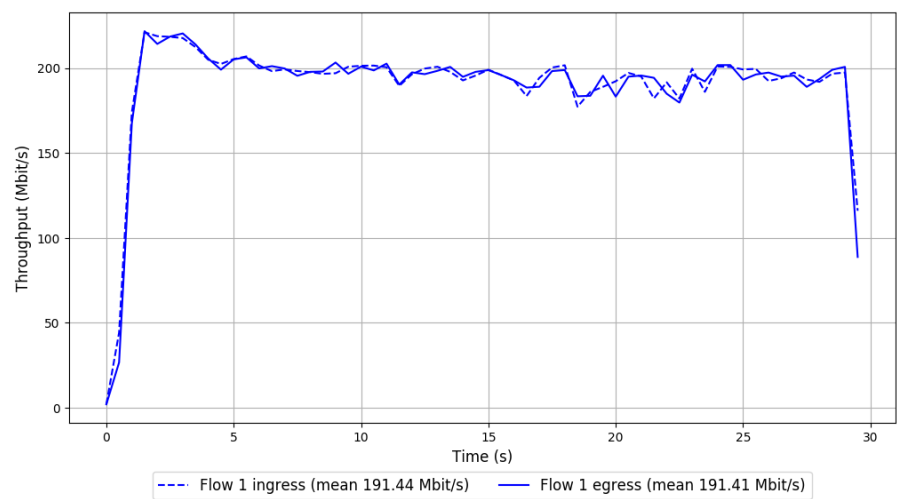
-- Flow 1:

Average throughput: 191.41 Mbit/s

95th percentile per-packet one-way delay: 63.401 ms

Loss rate: 0.44%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 04:25:02

End at: 2018-01-26 04:25:32

Below is generated by plot.py at 2018-01-26 08:13:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 63.335 ms

Loss rate: 0.45%

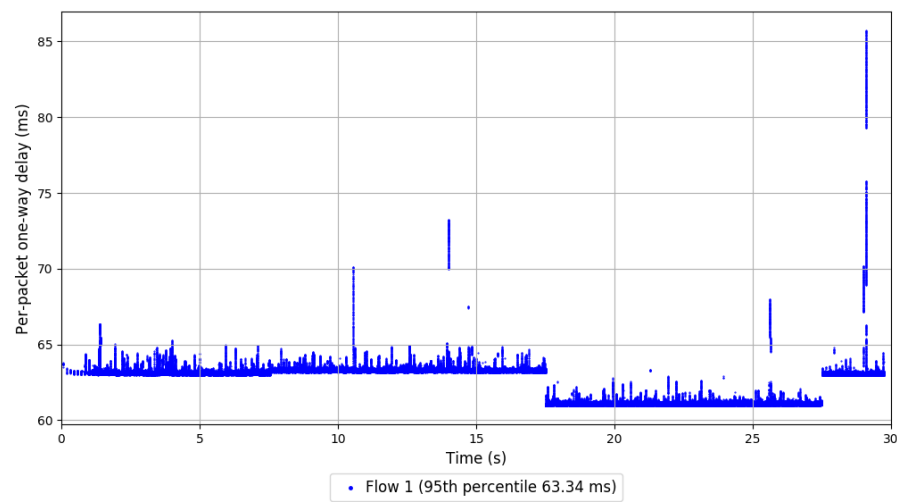
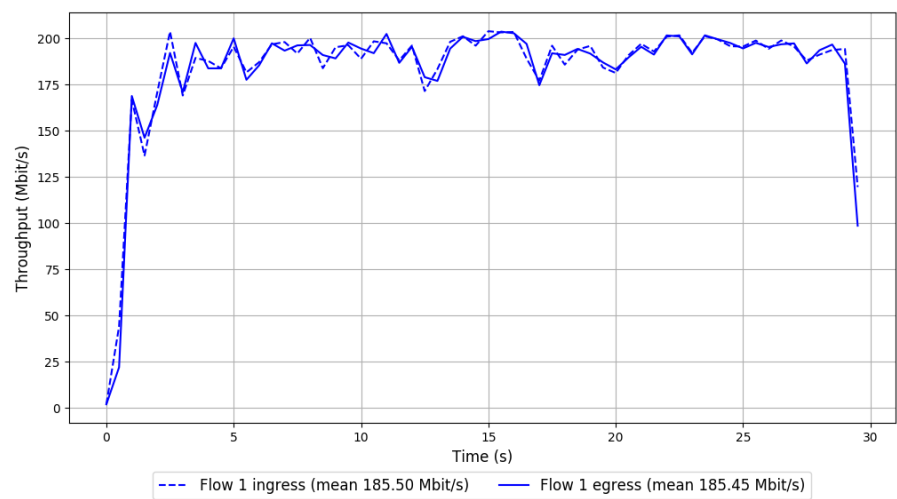
-- Flow 1:

Average throughput: 185.45 Mbit/s

95th percentile per-packet one-way delay: 63.335 ms

Loss rate: 0.45%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 04:37:11

End at: 2018-01-26 04:37:41

Below is generated by plot.py at 2018-01-26 08:13:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.26 Mbit/s

95th percentile per-packet one-way delay: 63.259 ms

Loss rate: 0.47%

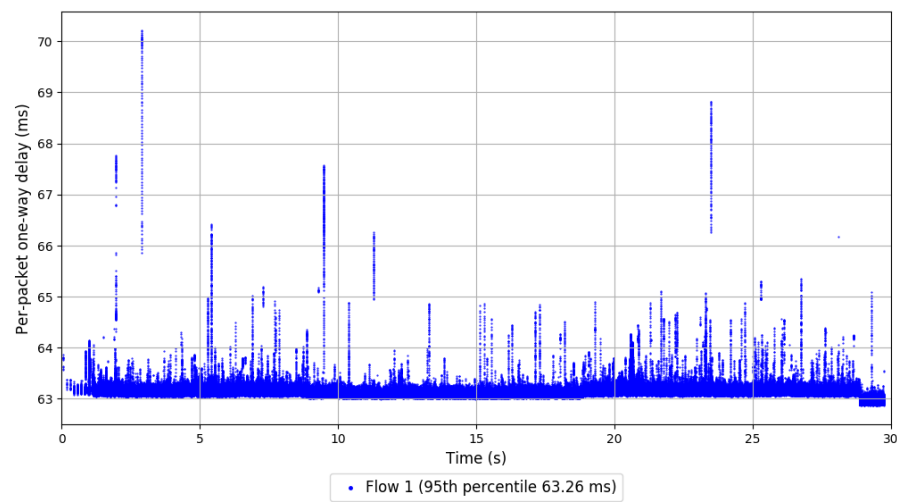
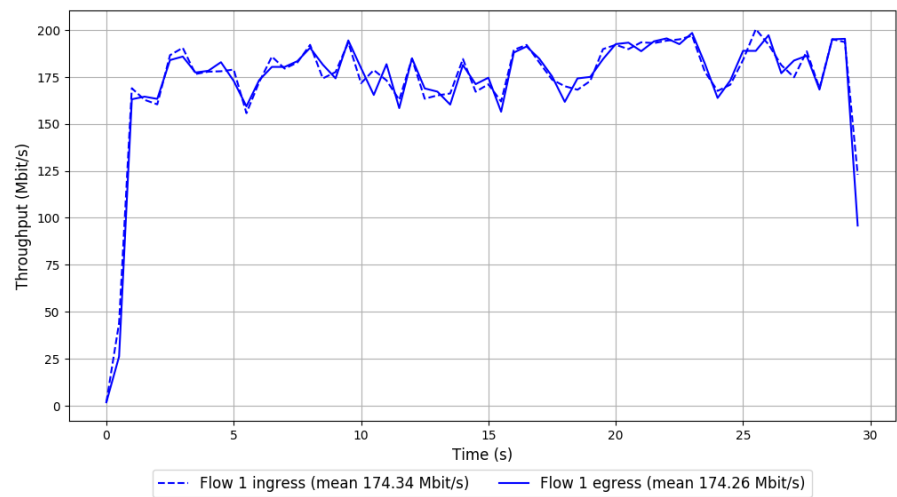
-- Flow 1:

Average throughput: 174.26 Mbit/s

95th percentile per-packet one-way delay: 63.259 ms

Loss rate: 0.47%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 04:49:18

End at: 2018-01-26 04:49:48

Below is generated by plot.py at 2018-01-26 08:13:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.44 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.46%

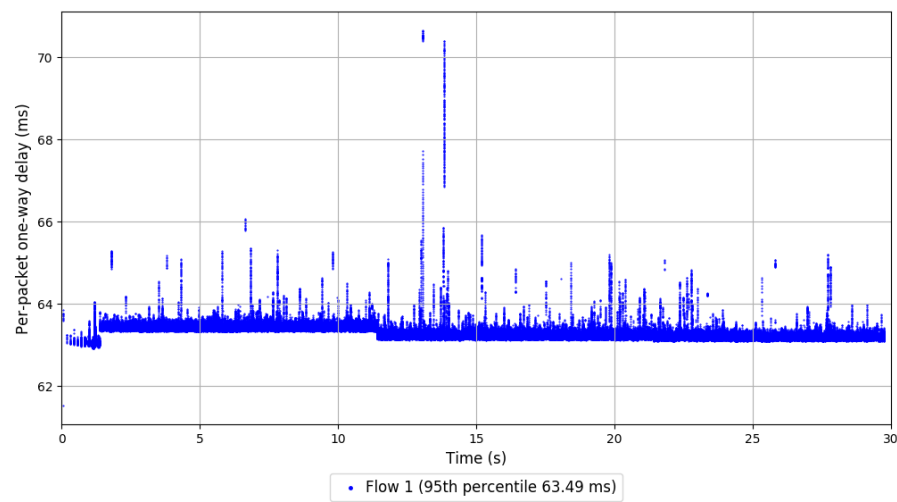
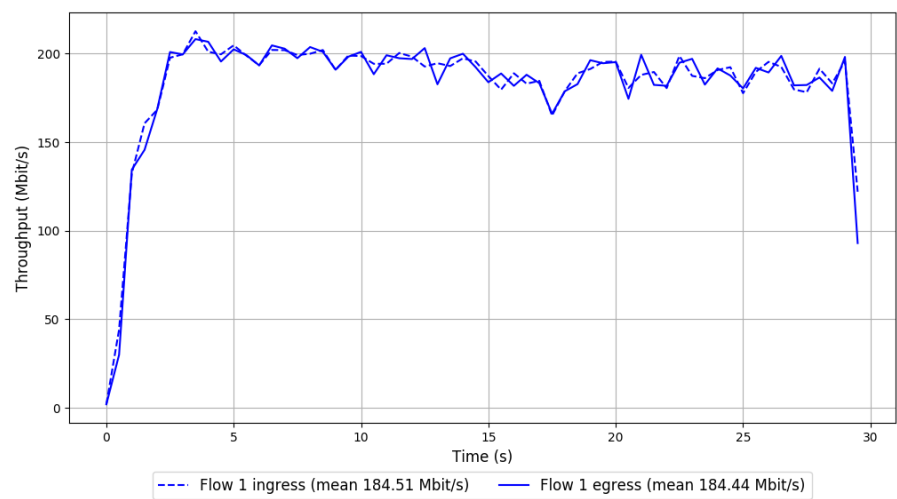
-- Flow 1:

Average throughput: 184.44 Mbit/s

95th percentile per-packet one-way delay: 63.491 ms

Loss rate: 0.46%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 05:01:21

End at: 2018-01-26 05:01:51

Below is generated by plot.py at 2018-01-26 08:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.03 Mbit/s

95th percentile per-packet one-way delay: 63.339 ms

Loss rate: 0.44%

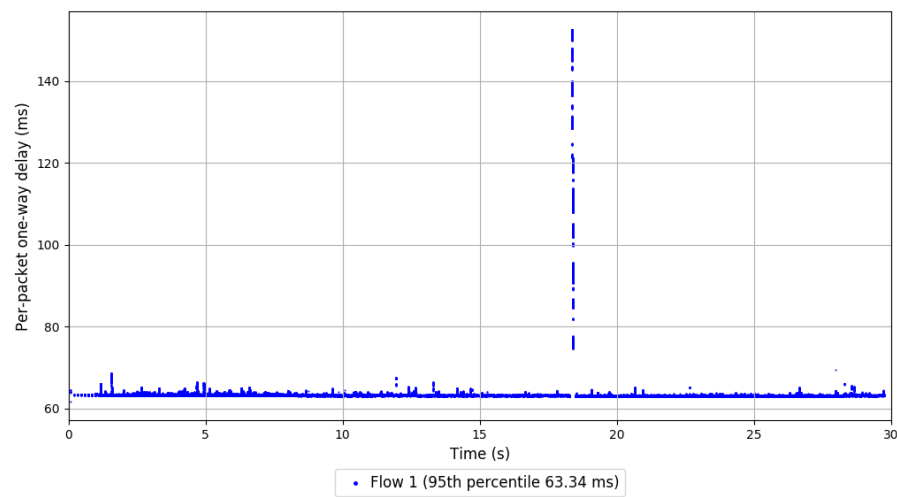
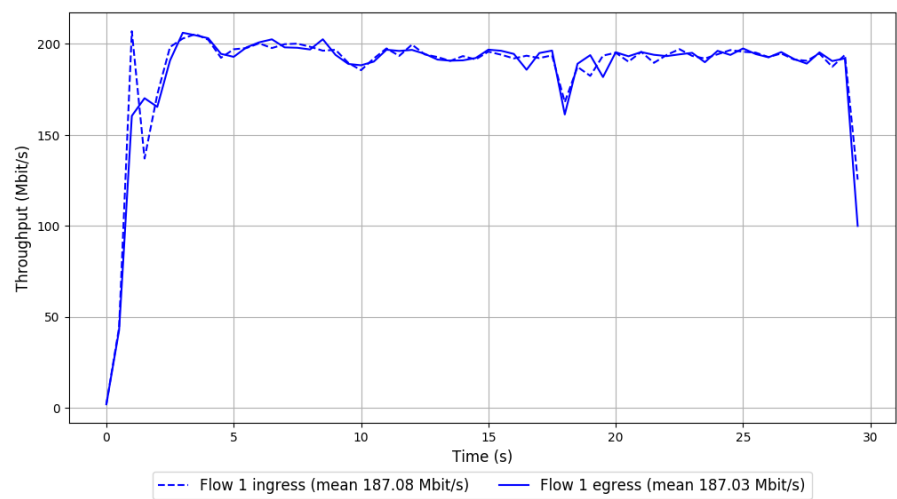
-- Flow 1:

Average throughput: 187.03 Mbit/s

95th percentile per-packet one-way delay: 63.339 ms

Loss rate: 0.44%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 05:13:30

End at: 2018-01-26 05:14:00

Below is generated by plot.py at 2018-01-26 08:15:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.50 Mbit/s

95th percentile per-packet one-way delay: 61.299 ms

Loss rate: 0.44%

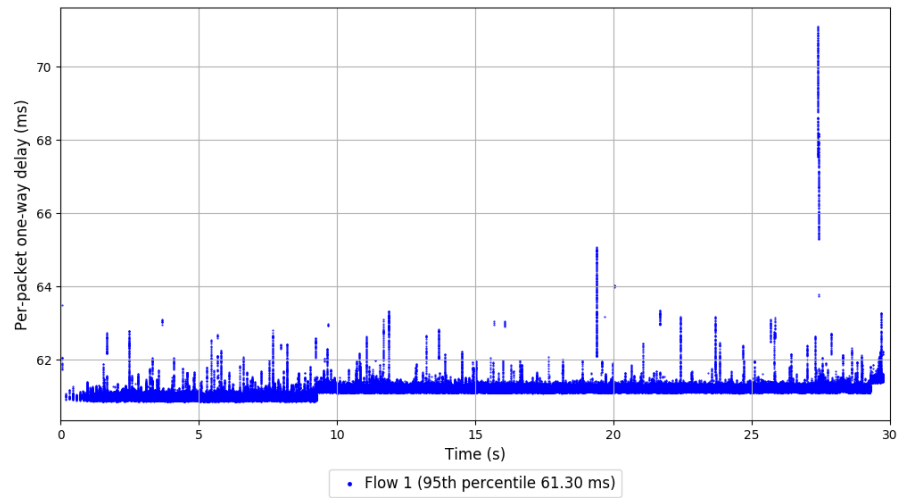
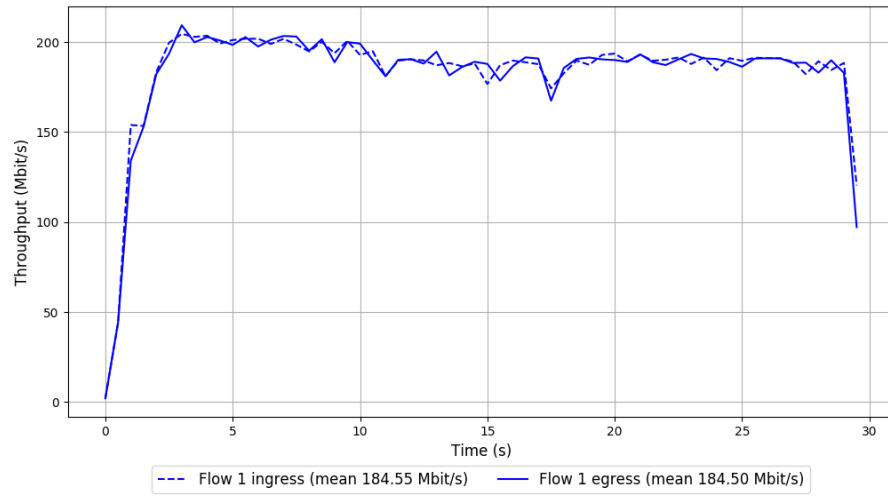
-- Flow 1:

Average throughput: 184.50 Mbit/s

95th percentile per-packet one-way delay: 61.299 ms

Loss rate: 0.44%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 05:25:33

End at: 2018-01-26 05:26:03

Below is generated by plot.py at 2018-01-26 08:15:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.31 Mbit/s

95th percentile per-packet one-way delay: 61.373 ms

Loss rate: 0.46%

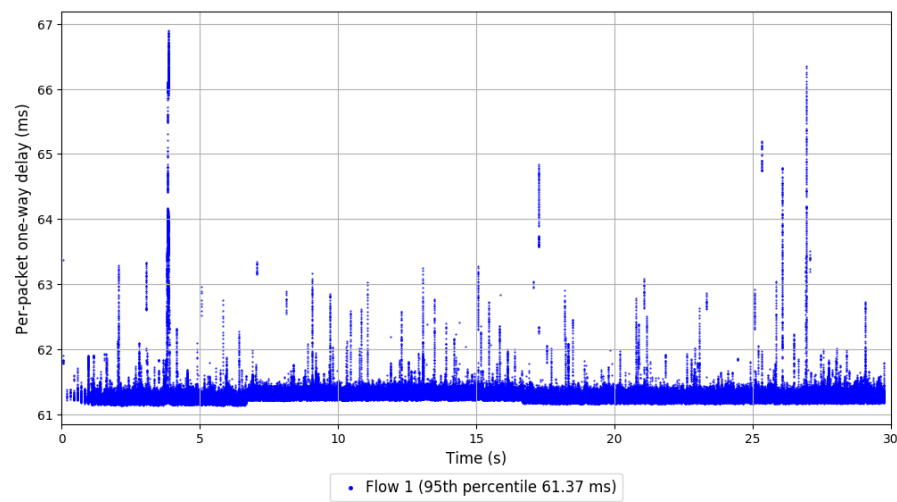
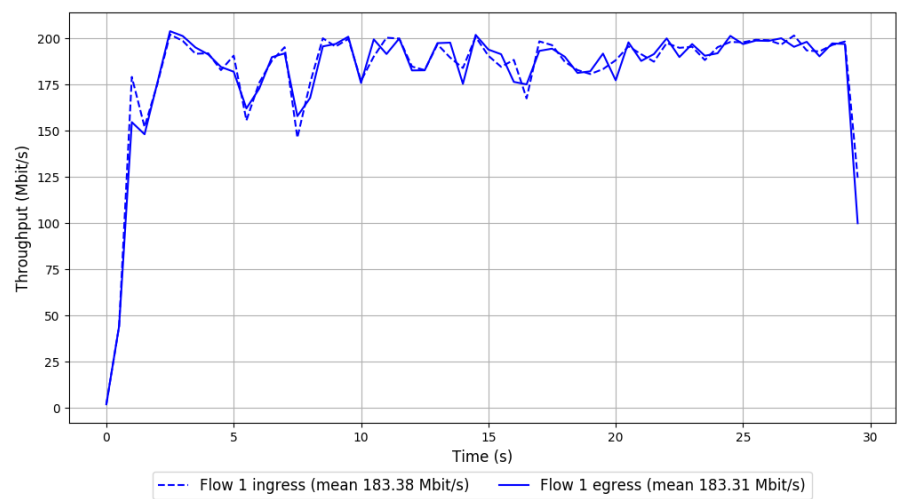
-- Flow 1:

Average throughput: 183.31 Mbit/s

95th percentile per-packet one-way delay: 61.373 ms

Loss rate: 0.46%

Run 10: Report of Indigo-2-256 — Data Link

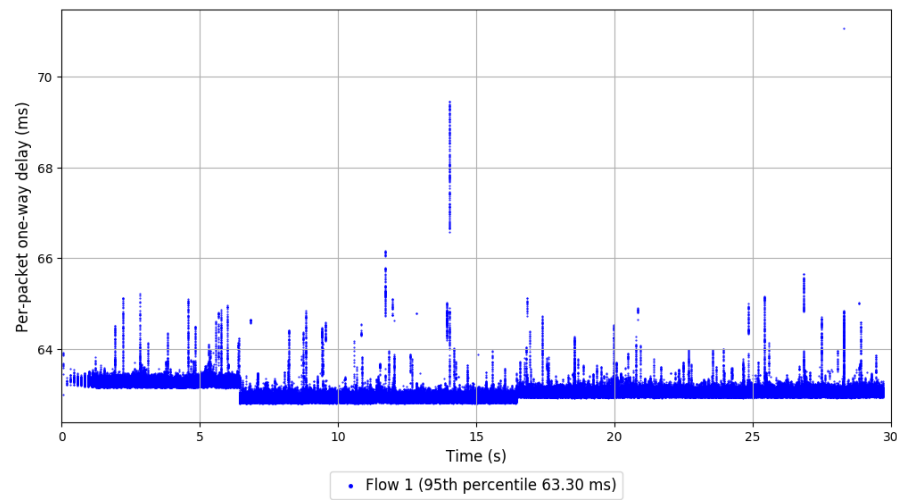
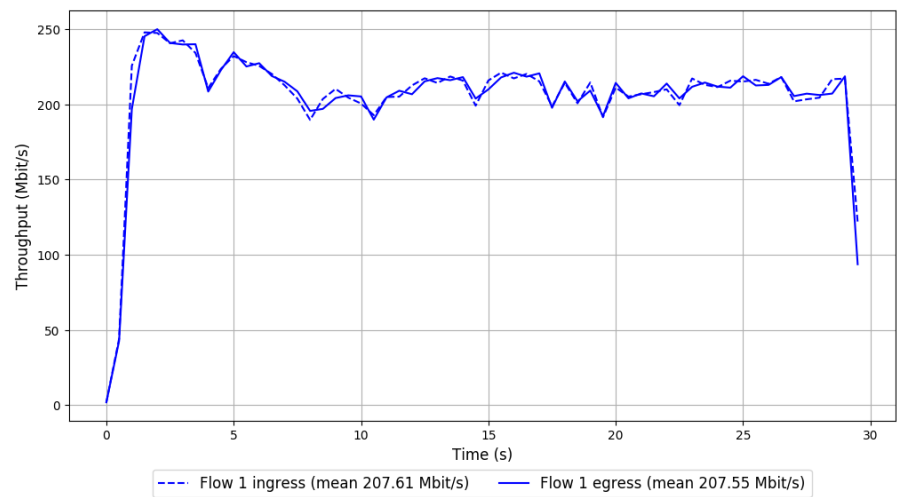


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 03:32:23
End at: 2018-01-26 03:32:53

# Below is generated by plot.py at 2018-01-26 08:15:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.55 Mbit/s
95th percentile per-packet one-way delay: 63.296 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 207.55 Mbit/s
95th percentile per-packet one-way delay: 63.296 ms
Loss rate: 0.45%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 03:44:30

End at: 2018-01-26 03:45:00

Below is generated by plot.py at 2018-01-26 08:16:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.61 Mbit/s

95th percentile per-packet one-way delay: 63.411 ms

Loss rate: 0.43%

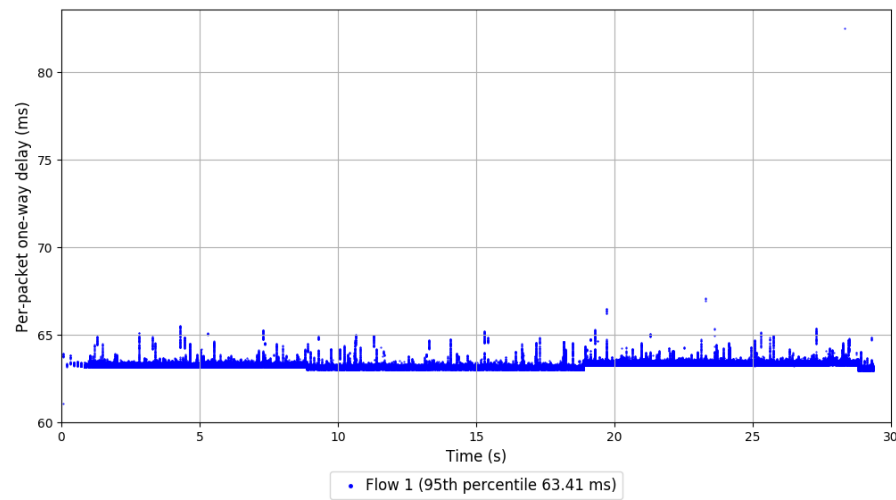
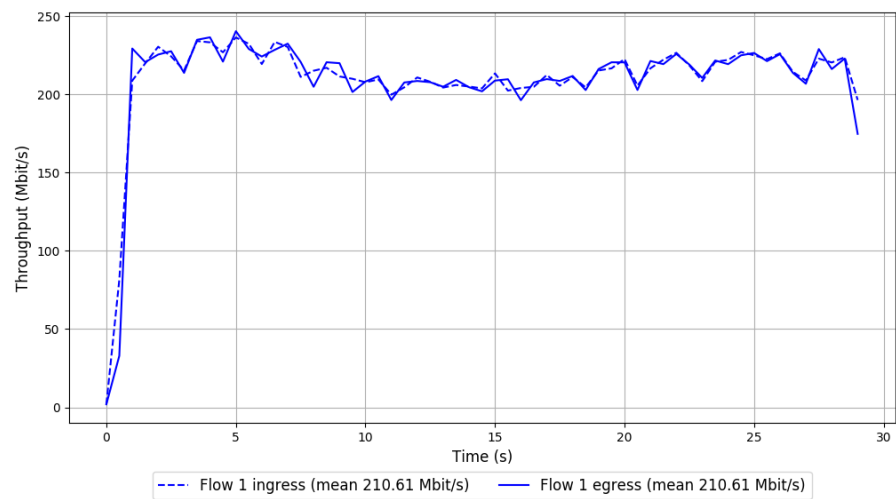
-- Flow 1:

Average throughput: 210.61 Mbit/s

95th percentile per-packet one-way delay: 63.411 ms

Loss rate: 0.43%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 03:56:41

End at: 2018-01-26 03:57:11

Below is generated by plot.py at 2018-01-26 08:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.94 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.45%

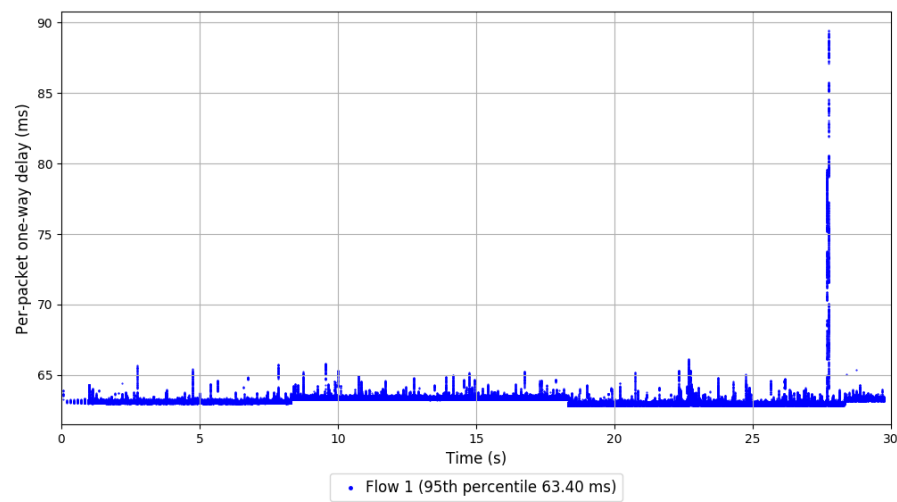
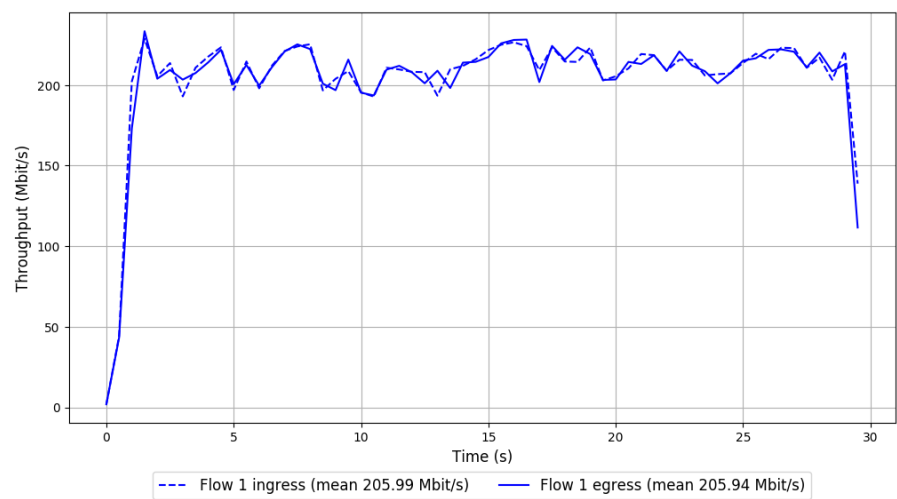
-- Flow 1:

Average throughput: 205.94 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.45%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 04:09:05

End at: 2018-01-26 04:09:35

Below is generated by plot.py at 2018-01-26 08:17:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.19 Mbit/s

95th percentile per-packet one-way delay: 63.187 ms

Loss rate: 0.44%

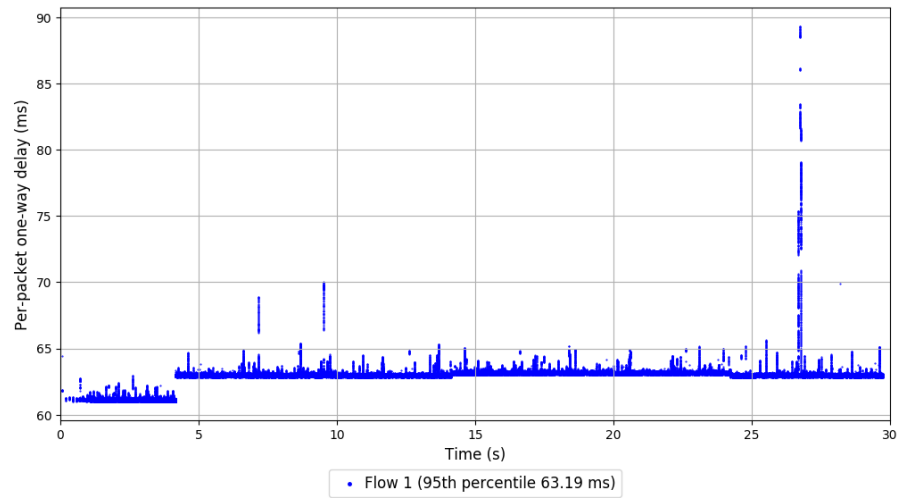
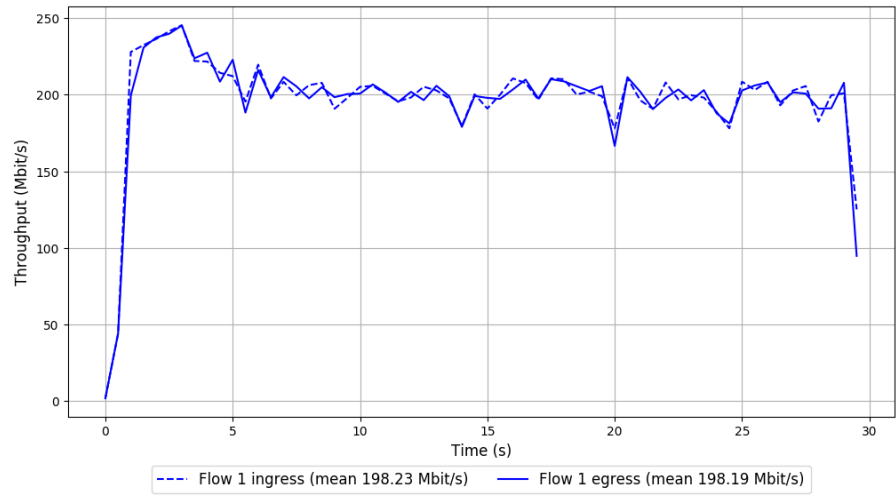
-- Flow 1:

Average throughput: 198.19 Mbit/s

95th percentile per-packet one-way delay: 63.187 ms

Loss rate: 0.44%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 04:21:23

End at: 2018-01-26 04:21:53

Below is generated by plot.py at 2018-01-26 08:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.86 Mbit/s

95th percentile per-packet one-way delay: 63.064 ms

Loss rate: 0.39%

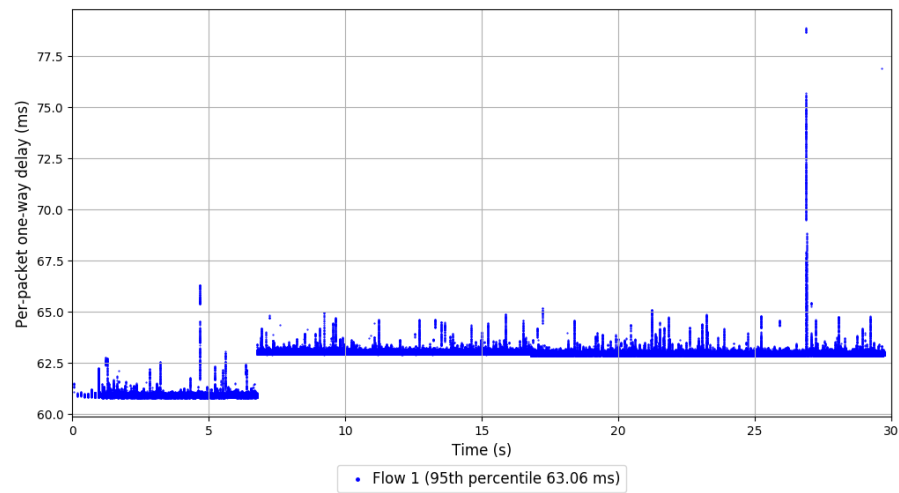
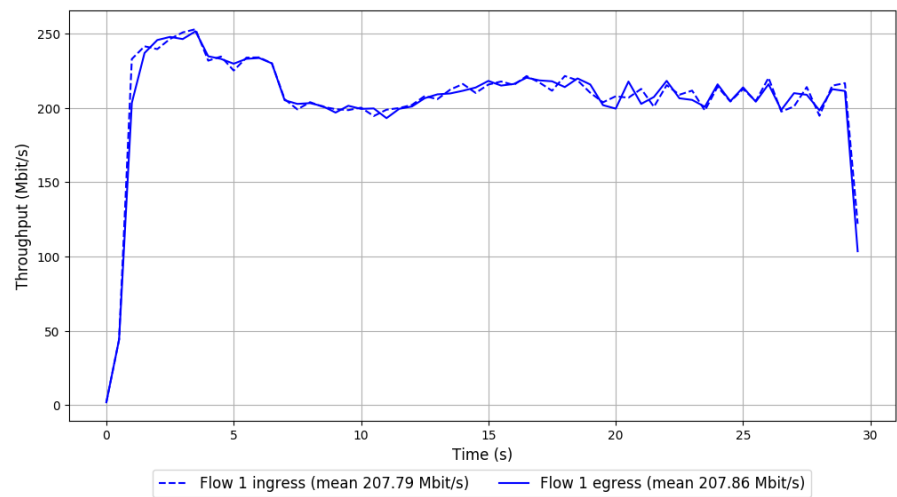
-- Flow 1:

Average throughput: 207.86 Mbit/s

95th percentile per-packet one-way delay: 63.064 ms

Loss rate: 0.39%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 04:33:30

End at: 2018-01-26 04:34:00

Below is generated by plot.py at 2018-01-26 08:18:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.76 Mbit/s

95th percentile per-packet one-way delay: 63.411 ms

Loss rate: 0.46%

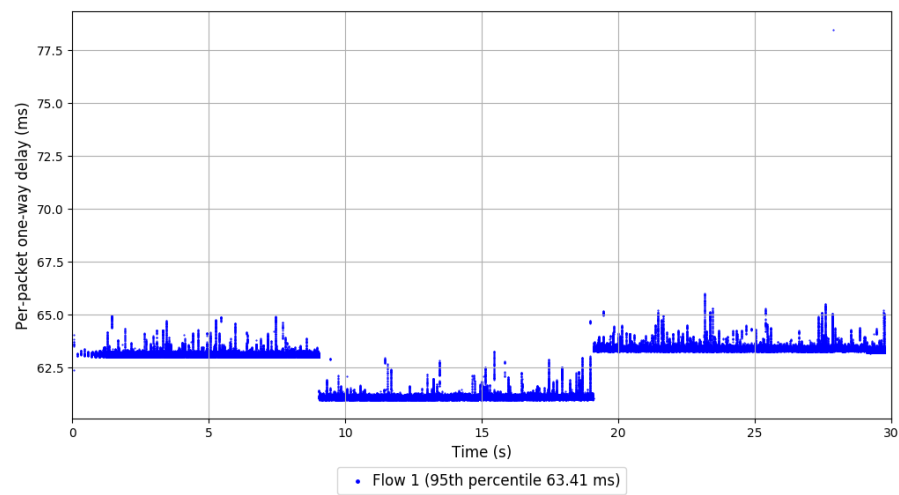
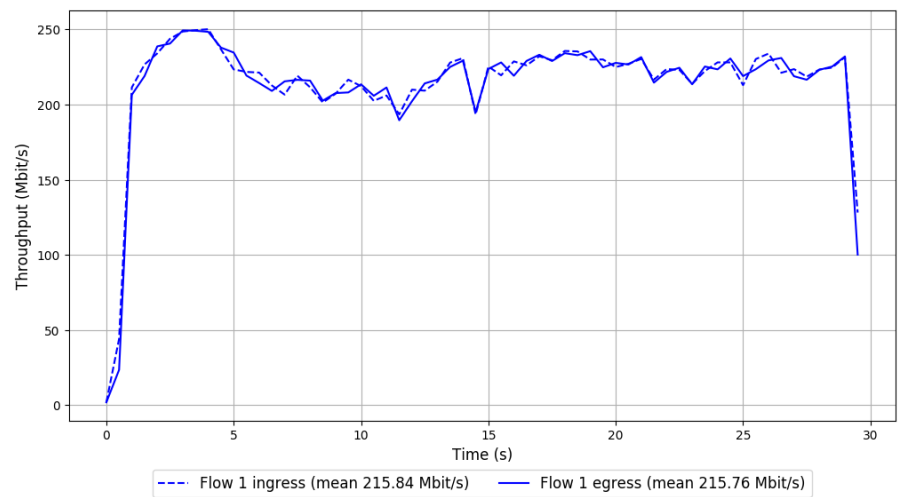
-- Flow 1:

Average throughput: 215.76 Mbit/s

95th percentile per-packet one-way delay: 63.411 ms

Loss rate: 0.46%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 04:45:42

End at: 2018-01-26 04:46:12

Below is generated by plot.py at 2018-01-26 08:18:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.62 Mbit/s

95th percentile per-packet one-way delay: 63.128 ms

Loss rate: 0.49%

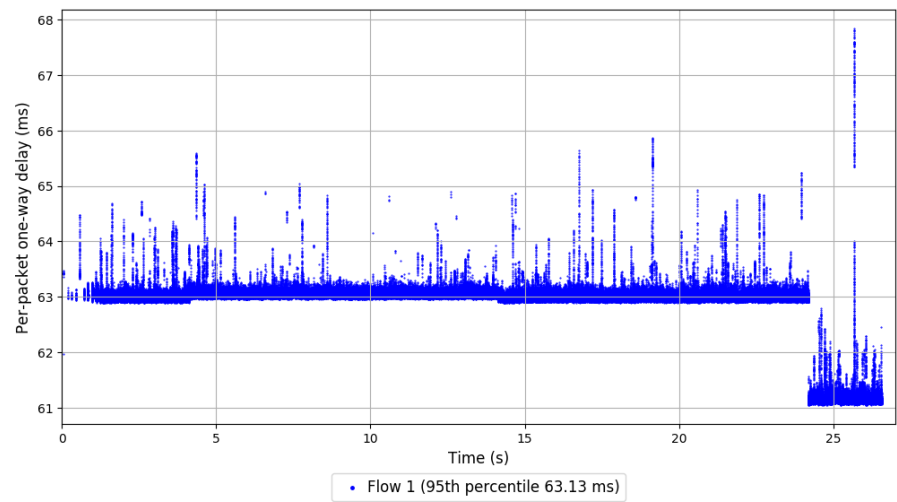
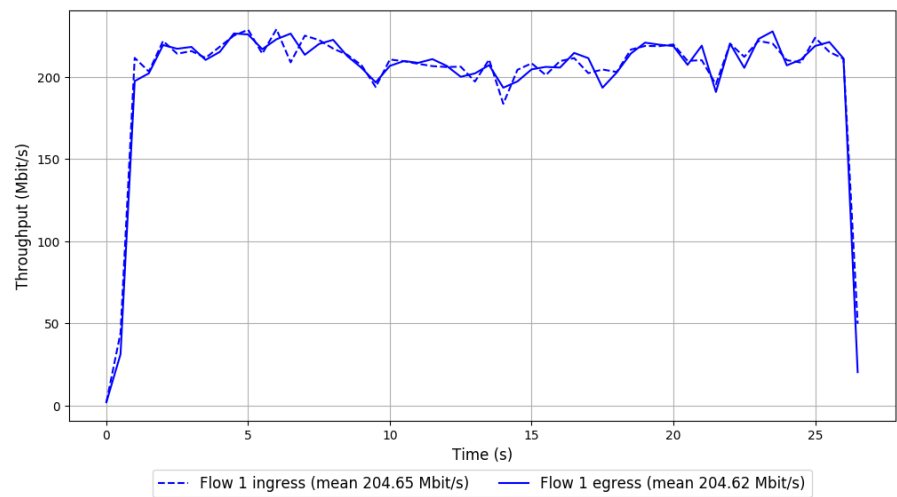
-- Flow 1:

Average throughput: 204.62 Mbit/s

95th percentile per-packet one-way delay: 63.128 ms

Loss rate: 0.49%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 04:57:42

End at: 2018-01-26 04:58:12

Below is generated by plot.py at 2018-01-26 08:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.29 Mbit/s

95th percentile per-packet one-way delay: 63.267 ms

Loss rate: 0.35%

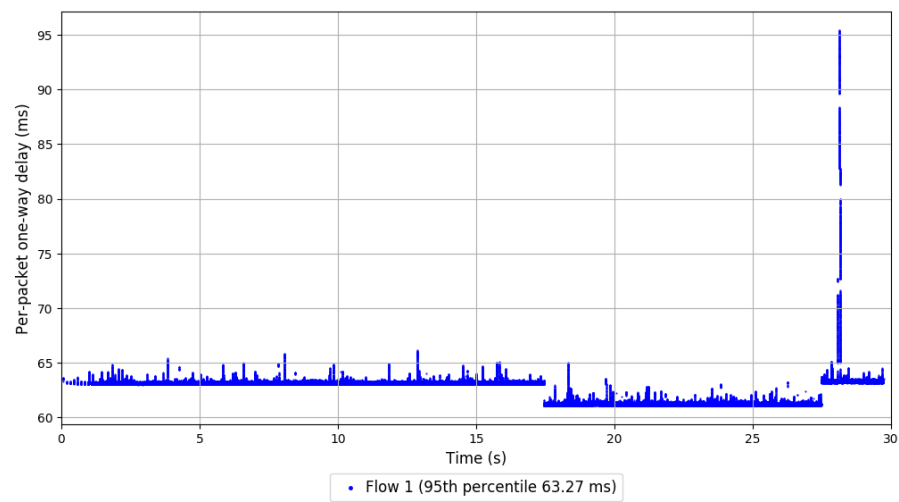
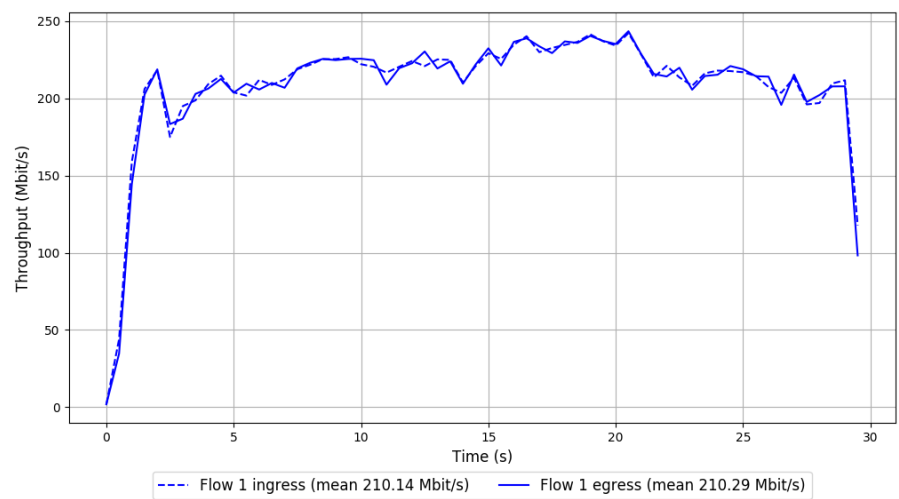
-- Flow 1:

Average throughput: 210.29 Mbit/s

95th percentile per-packet one-way delay: 63.267 ms

Loss rate: 0.35%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 05:09:58

End at: 2018-01-26 05:10:28

Below is generated by plot.py at 2018-01-26 08:19:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.70 Mbit/s

95th percentile per-packet one-way delay: 63.245 ms

Loss rate: 0.45%

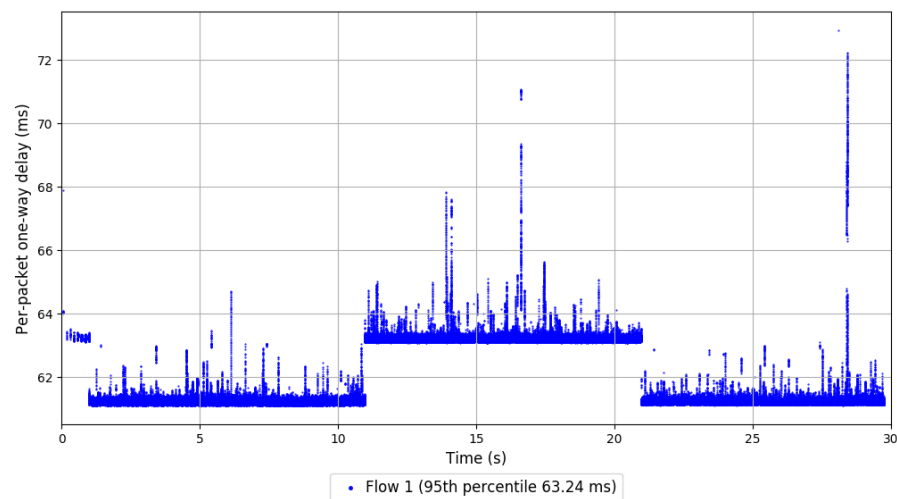
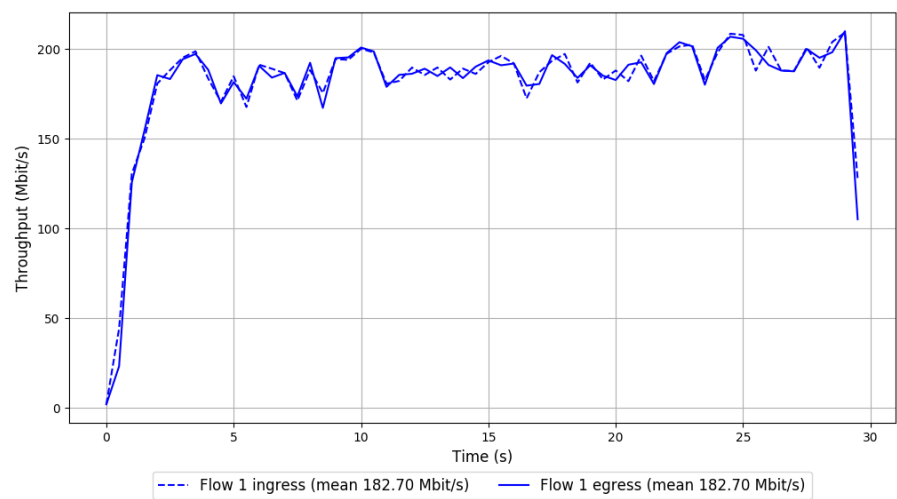
-- Flow 1:

Average throughput: 182.70 Mbit/s

95th percentile per-packet one-way delay: 63.245 ms

Loss rate: 0.45%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 05:21:56

End at: 2018-01-26 05:22:26

Below is generated by plot.py at 2018-01-26 08:19:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.91 Mbit/s

95th percentile per-packet one-way delay: 63.243 ms

Loss rate: 0.44%

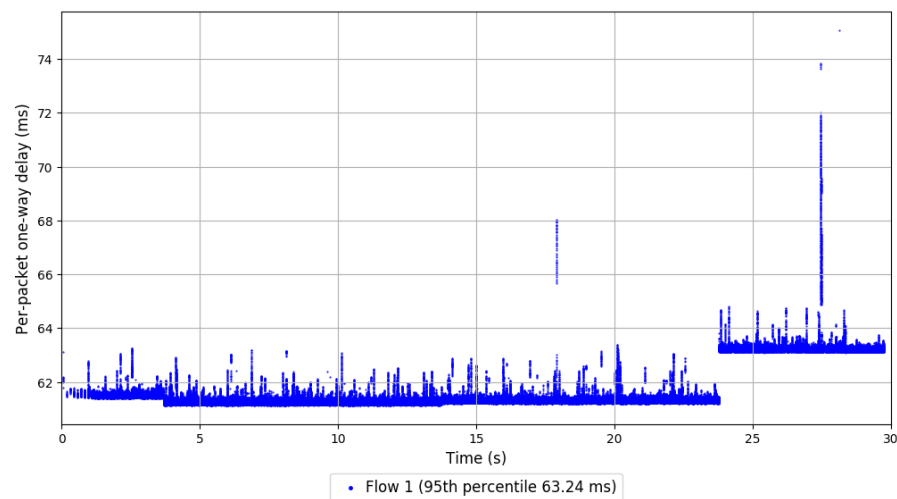
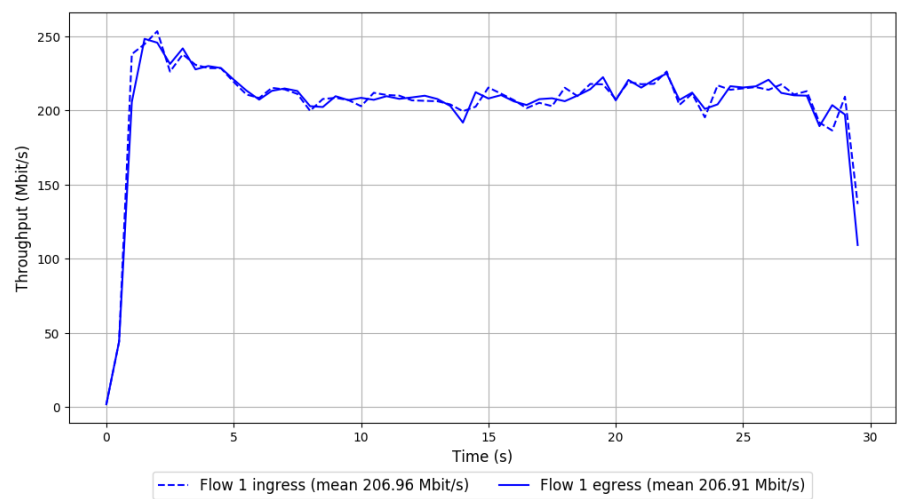
-- Flow 1:

Average throughput: 206.91 Mbit/s

95th percentile per-packet one-way delay: 63.243 ms

Loss rate: 0.44%

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

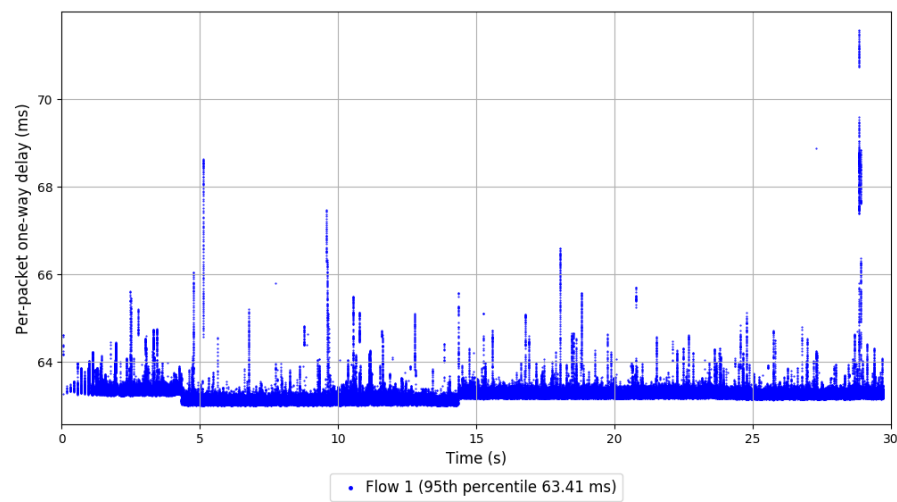
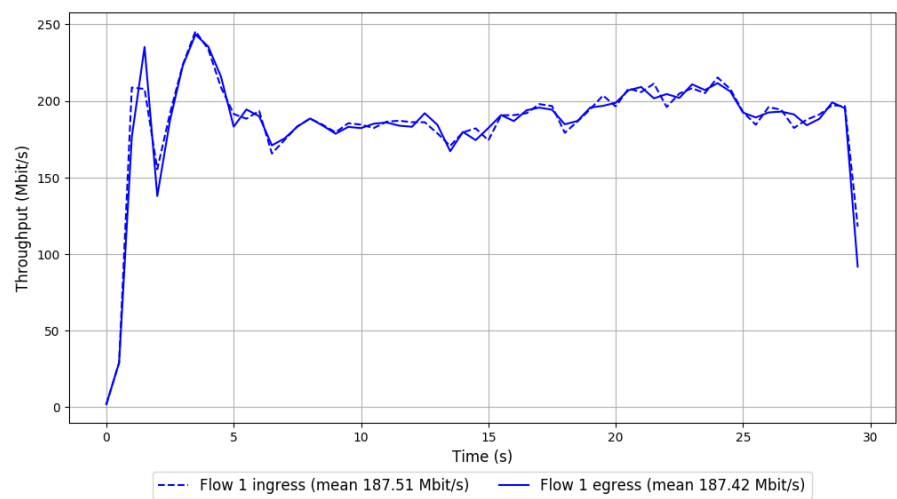


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 03:40:05
End at: 2018-01-26 03:40:35

# Below is generated by plot.py at 2018-01-26 08:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.42 Mbit/s
95th percentile per-packet one-way delay: 63.406 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 187.42 Mbit/s
95th percentile per-packet one-way delay: 63.406 ms
Loss rate: 0.47%
```


Run 1: Report of Indigo-1-128 — Data Link

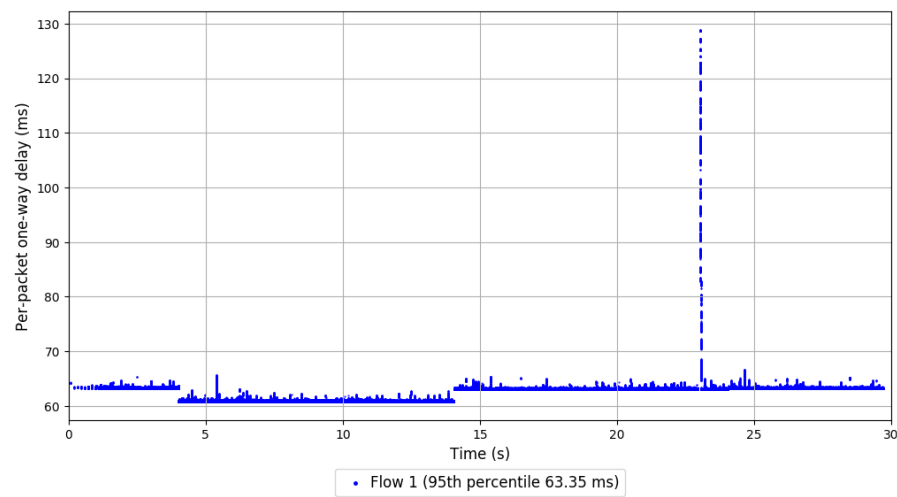
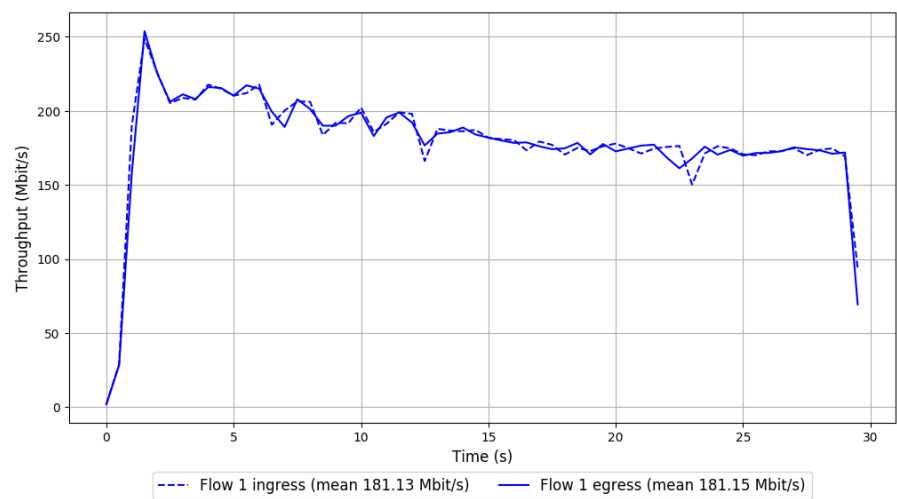


```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 03:52:15
End at: 2018-01-26 03:52:45

# Below is generated by plot.py at 2018-01-26 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.15 Mbit/s
95th percentile per-packet one-way delay: 63.350 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 181.15 Mbit/s
95th percentile per-packet one-way delay: 63.350 ms
Loss rate: 0.41%
```

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 04:04:27

End at: 2018-01-26 04:04:57

Below is generated by plot.py at 2018-01-26 08:21:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.66 Mbit/s

95th percentile per-packet one-way delay: 63.323 ms

Loss rate: 0.39%

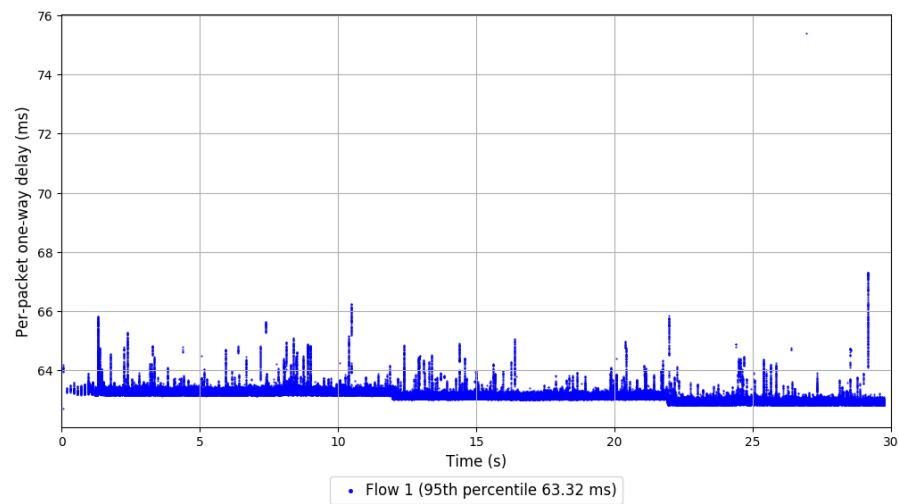
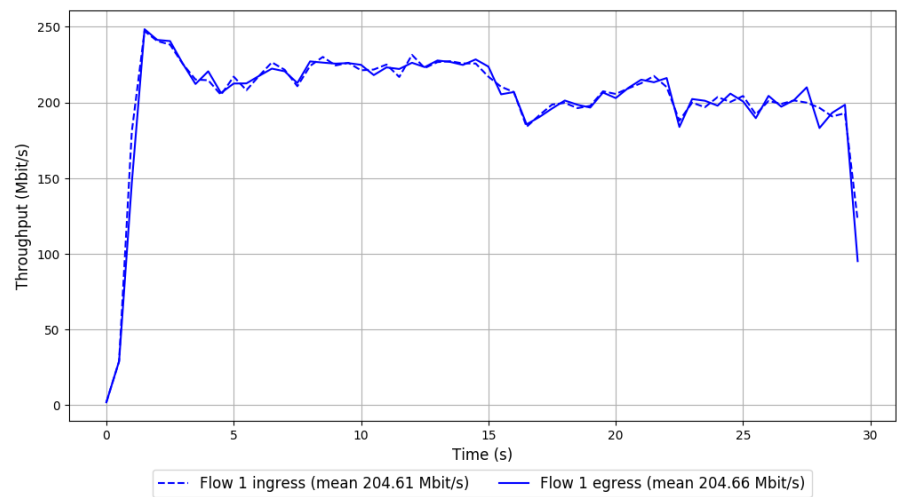
-- Flow 1:

Average throughput: 204.66 Mbit/s

95th percentile per-packet one-way delay: 63.323 ms

Loss rate: 0.39%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 04:16:45

End at: 2018-01-26 04:17:15

Below is generated by plot.py at 2018-01-26 08:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.92 Mbit/s

95th percentile per-packet one-way delay: 63.399 ms

Loss rate: 0.42%

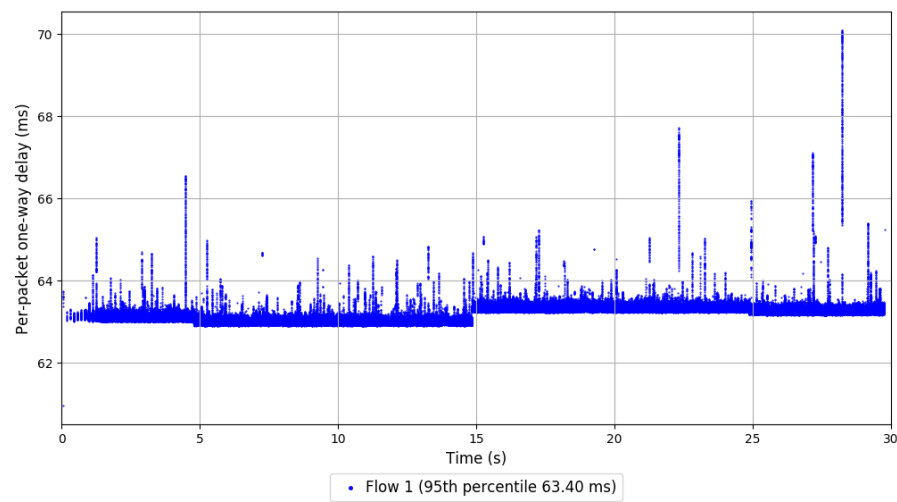
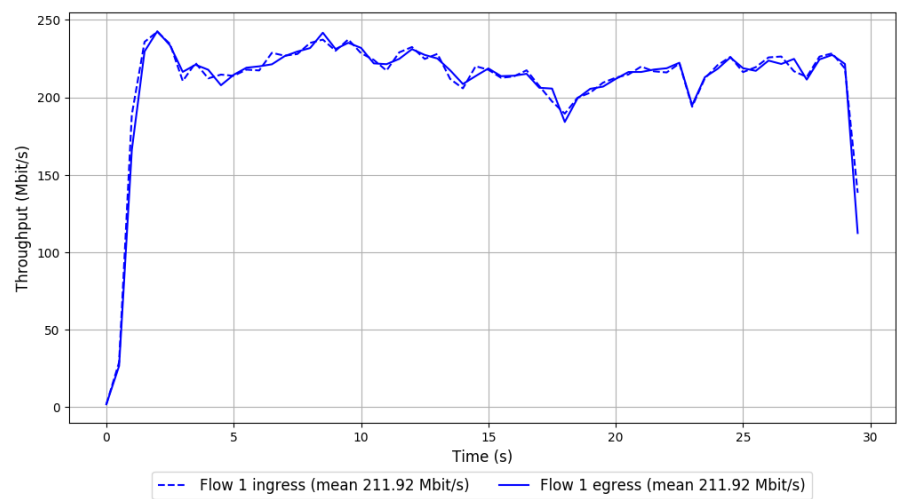
-- Flow 1:

Average throughput: 211.92 Mbit/s

95th percentile per-packet one-way delay: 63.399 ms

Loss rate: 0.42%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 04:29:05

End at: 2018-01-26 04:29:35

Below is generated by plot.py at 2018-01-26 08:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.21 Mbit/s

95th percentile per-packet one-way delay: 63.364 ms

Loss rate: 0.38%

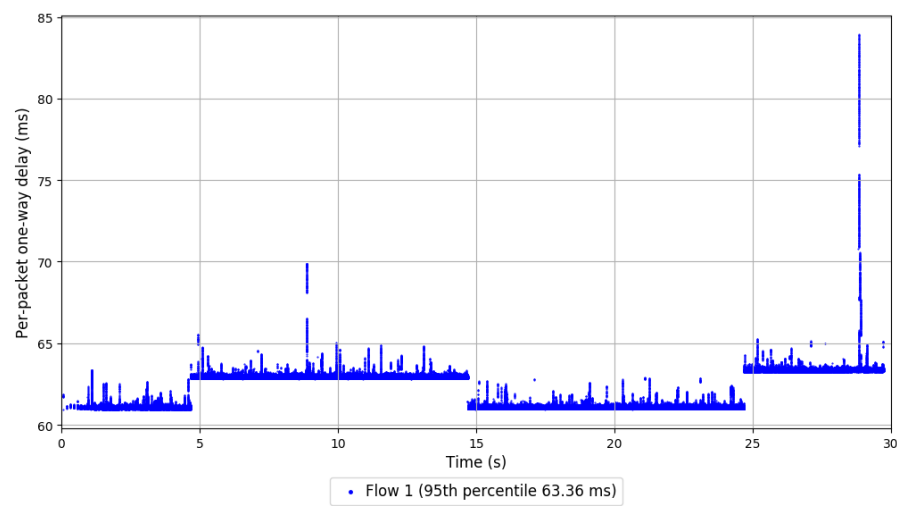
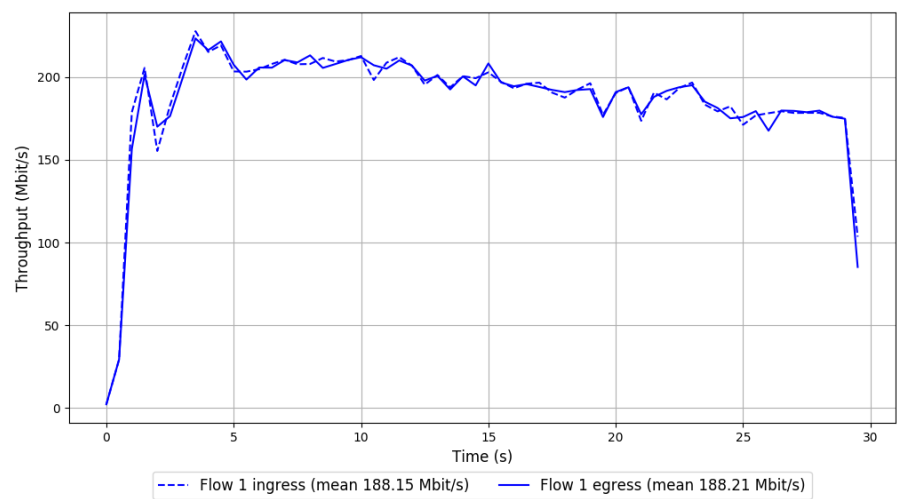
-- Flow 1:

Average throughput: 188.21 Mbit/s

95th percentile per-packet one-way delay: 63.364 ms

Loss rate: 0.38%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 04:41:13

End at: 2018-01-26 04:41:43

Below is generated by plot.py at 2018-01-26 08:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.84 Mbit/s

95th percentile per-packet one-way delay: 63.451 ms

Loss rate: 0.39%

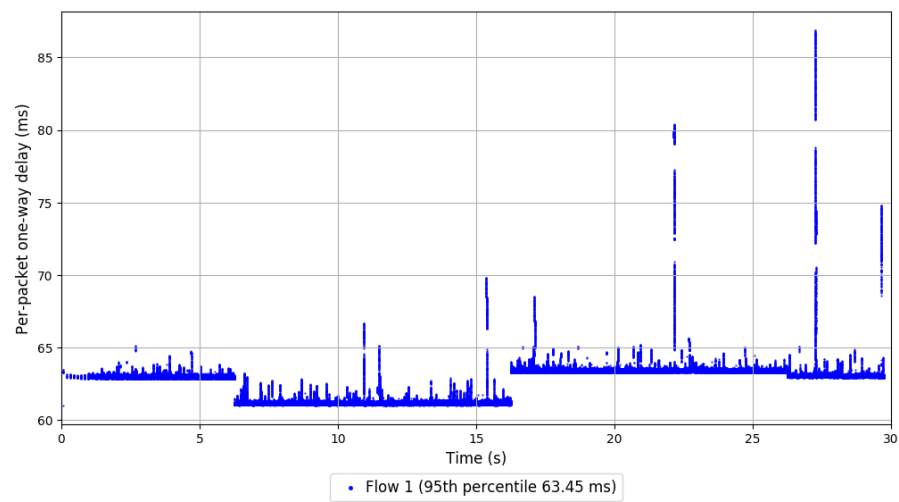
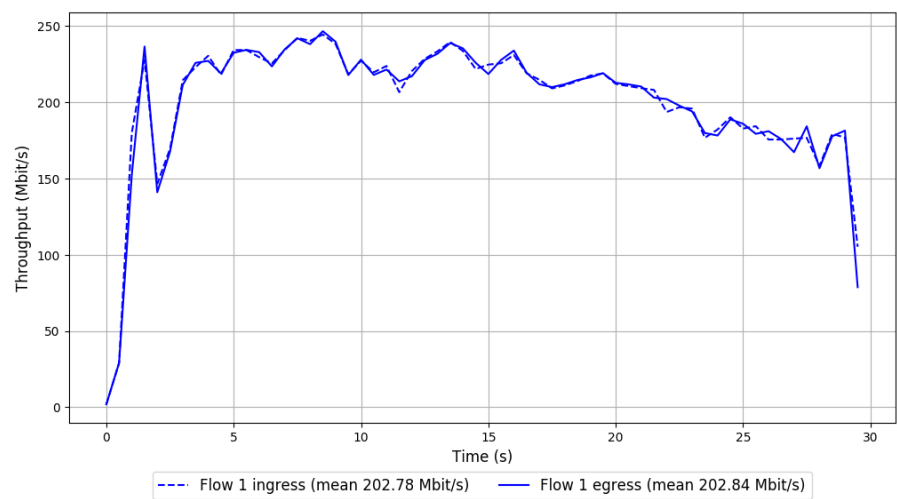
-- Flow 1:

Average throughput: 202.84 Mbit/s

95th percentile per-packet one-way delay: 63.451 ms

Loss rate: 0.39%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 04:53:18

End at: 2018-01-26 04:53:48

Below is generated by plot.py at 2018-01-26 08:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.06 Mbit/s

95th percentile per-packet one-way delay: 63.309 ms

Loss rate: 0.42%

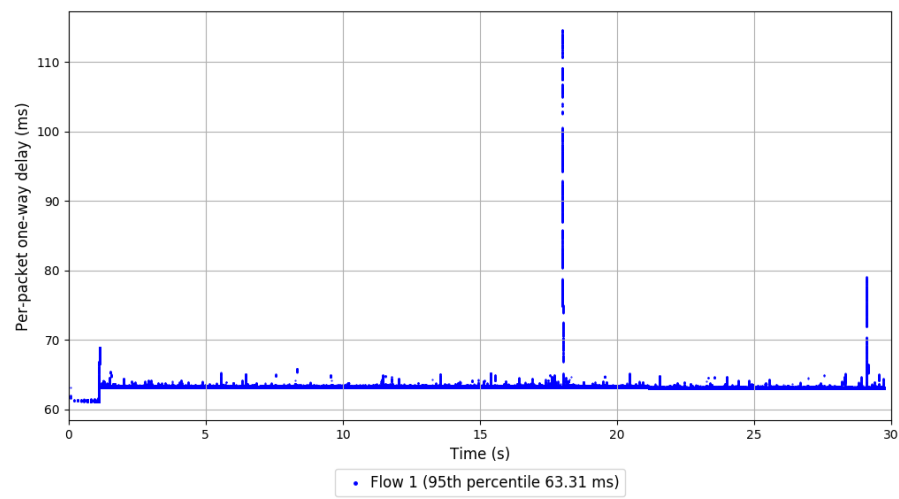
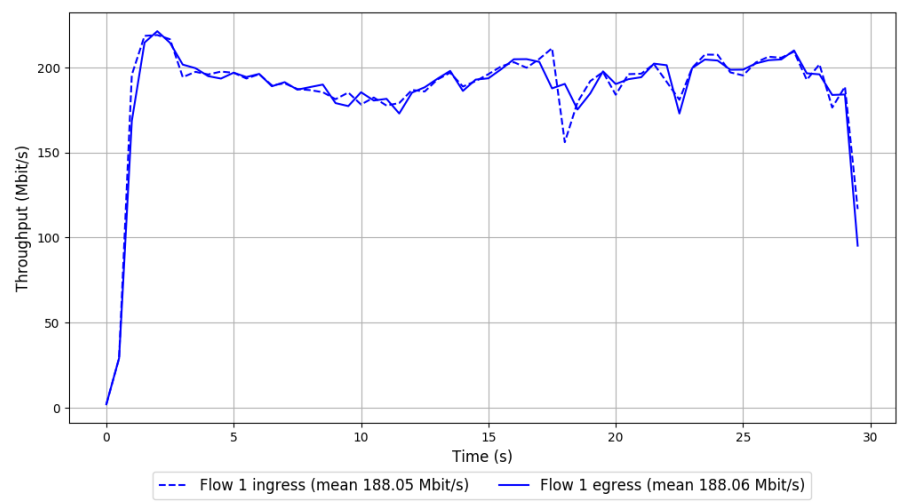
-- Flow 1:

Average throughput: 188.06 Mbit/s

95th percentile per-packet one-way delay: 63.309 ms

Loss rate: 0.42%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 05:05:28

End at: 2018-01-26 05:05:58

Below is generated by plot.py at 2018-01-26 08:22:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.86 Mbit/s

95th percentile per-packet one-way delay: 63.220 ms

Loss rate: 0.42%

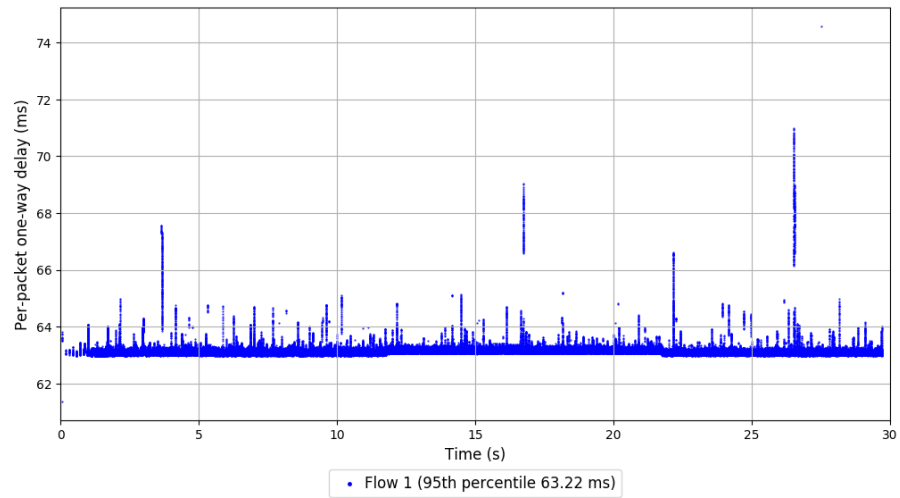
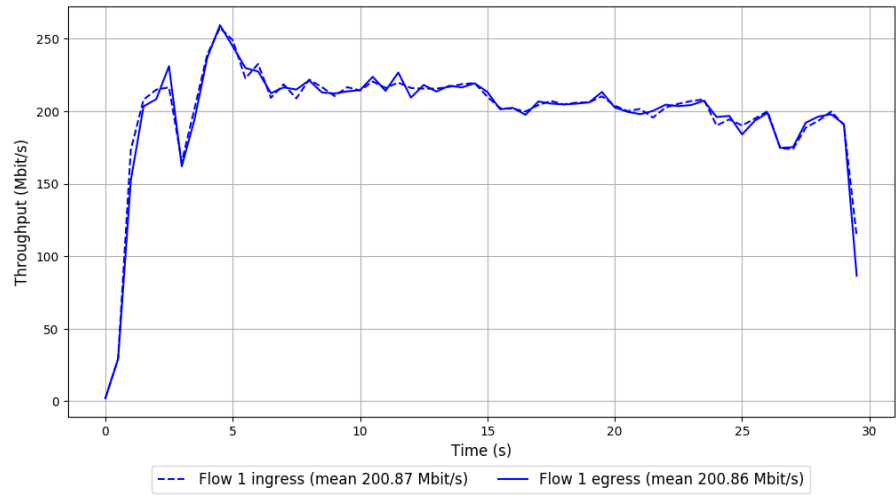
-- Flow 1:

Average throughput: 200.86 Mbit/s

95th percentile per-packet one-way delay: 63.220 ms

Loss rate: 0.42%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 05:17:37

End at: 2018-01-26 05:18:07

Below is generated by plot.py at 2018-01-26 08:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.15 Mbit/s

95th percentile per-packet one-way delay: 61.330 ms

Loss rate: 0.41%

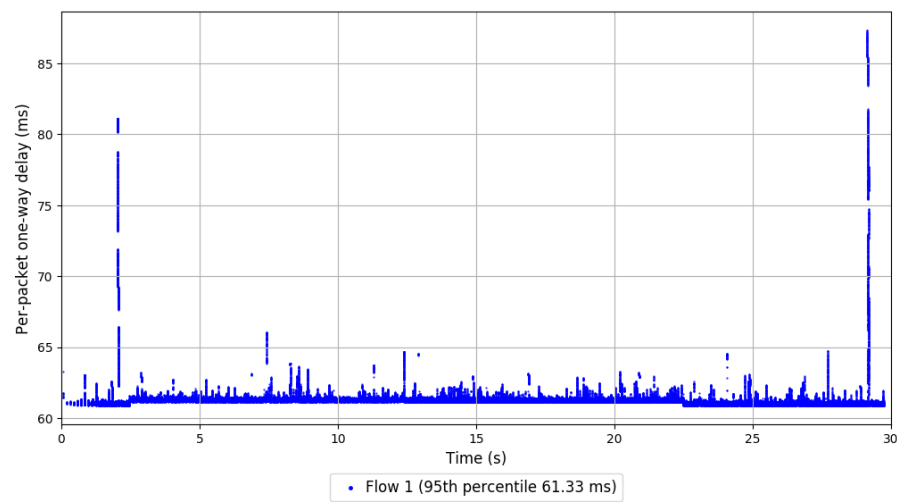
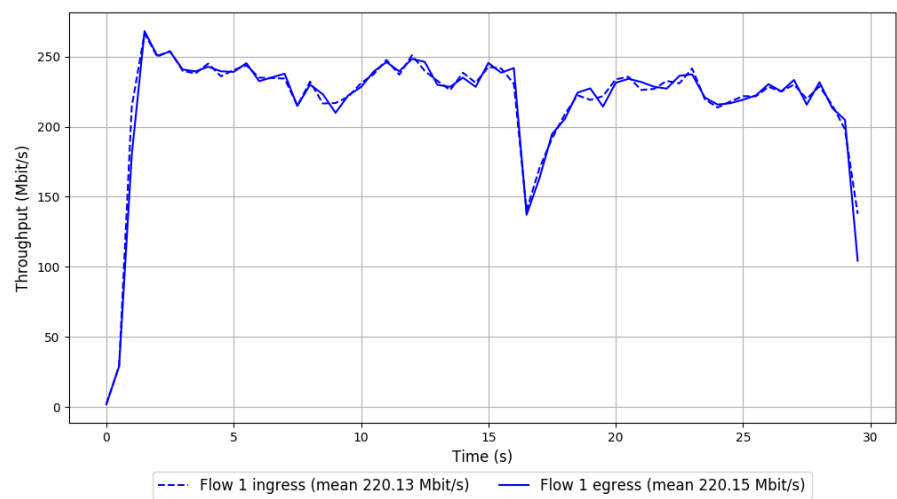
-- Flow 1:

Average throughput: 220.15 Mbit/s

95th percentile per-packet one-way delay: 61.330 ms

Loss rate: 0.41%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 05:29:38

End at: 2018-01-26 05:30:08

Below is generated by plot.py at 2018-01-26 08:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.16 Mbit/s

95th percentile per-packet one-way delay: 63.263 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 188.16 Mbit/s

95th percentile per-packet one-way delay: 63.263 ms

Loss rate: 0.48%

Run 10: Report of Indigo-1-128 — Data Link

