

Pantheon Report

Generated at 2018-01-30 16:50:23 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

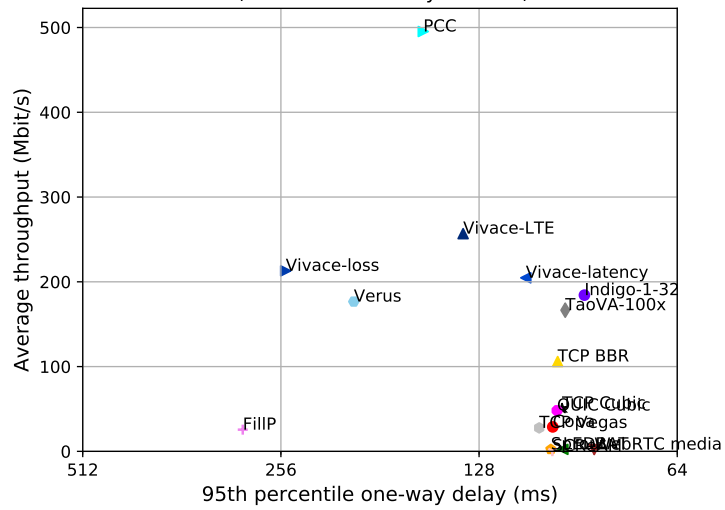
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

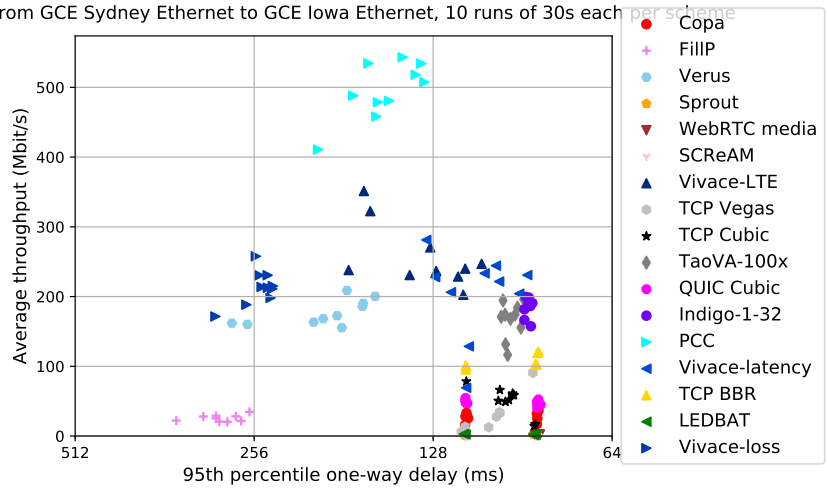
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Sydney 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	7	105.99	97.24	0.77
TCP Cubic	10	50.55	95.75	1.09
LEDBAT	6	2.34	95.49	1.60
PCC	10	495.29	155.58	2.75
QUIC Cubic	9	48.15	97.46	0.86
SCReAM	10	0.20	99.06	0.62
WebRTC media	10	2.09	85.56	0.86
Sprout	10	2.40	99.59	1.75
TaoVA-100x	10	166.52	94.70	0.62
TCP Vegas	8	27.67	103.72	1.74
Verus	10	176.67	198.40	3.36
Copa	10	28.83	98.93	0.54
FillP	9	25.59	292.55	20.49
Indigo-1-32	9	184.28	88.55	1.00
Vivace-latency	10	204.70	108.71	1.11
Vivace-loss	10	212.92	251.74	8.40
Vivace-LTE	10	256.83	135.35	1.55

Run 1: Statistics of TCP BBR

Start at: 2018-01-30 10:58:27

End at: 2018-01-30 10:58:57

Below is generated by plot.py at 2018-01-30 15:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 112.874 ms

Loss rate: 0.44%

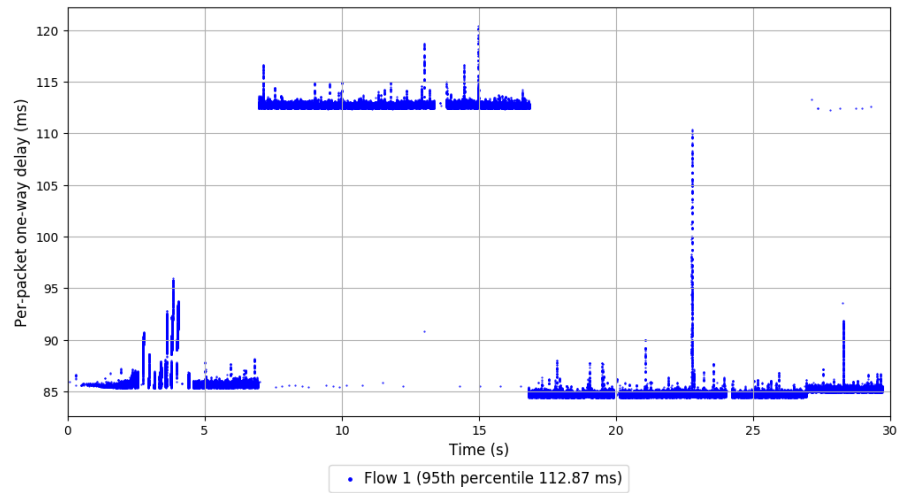
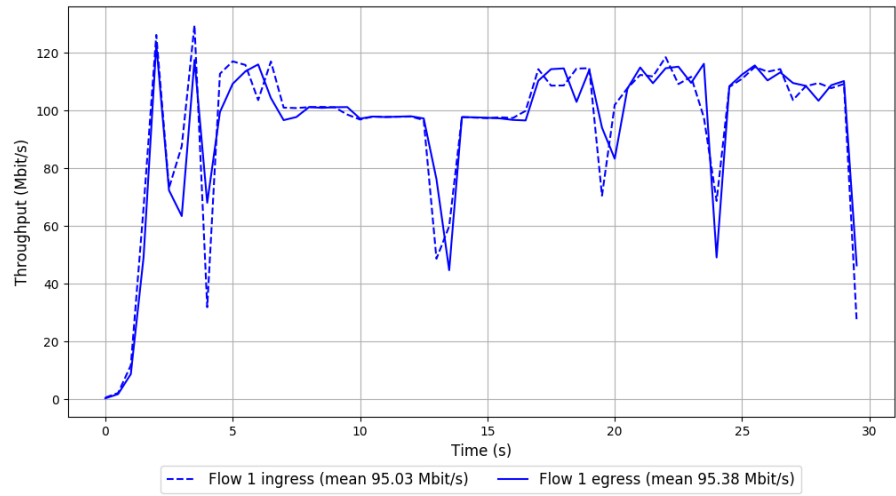
-- Flow 1:

Average throughput: 95.38 Mbit/s

95th percentile per-packet one-way delay: 112.874 ms

Loss rate: 0.44%

Run 1: Report of TCP BBR — Data Link

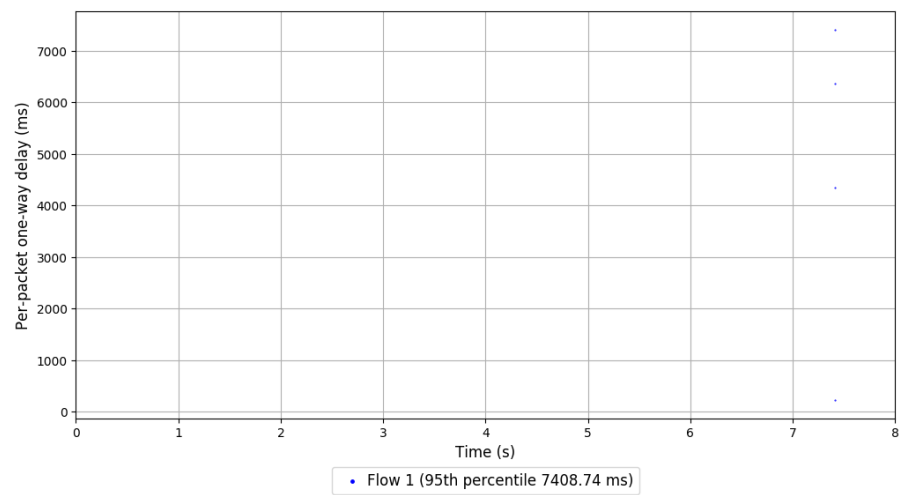
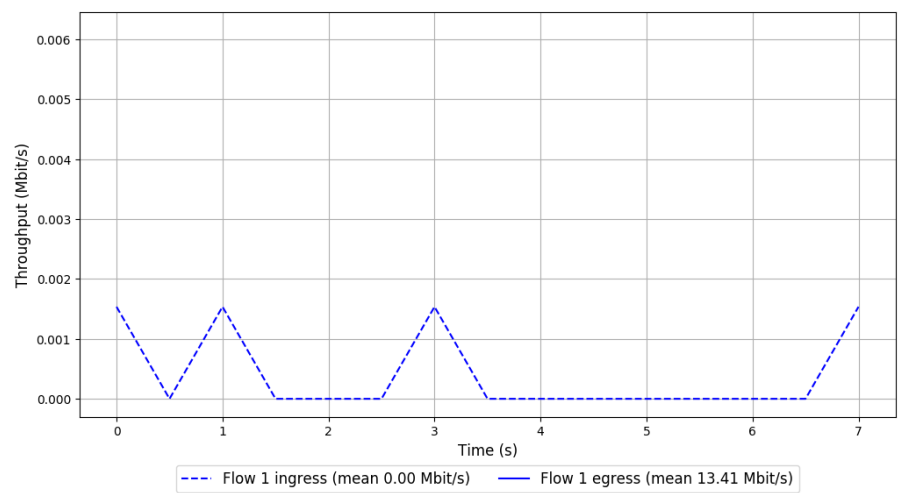


Run 2: Statistics of TCP BBR

Start at: 2018-01-30 11:13:02

End at: 2018-01-30 11:13:32

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-30 11:27:42

End at: 2018-01-30 11:28:12

Below is generated by plot.py at 2018-01-30 15:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.84 Mbit/s

95th percentile per-packet one-way delay: 112.600 ms

Loss rate: 0.67%

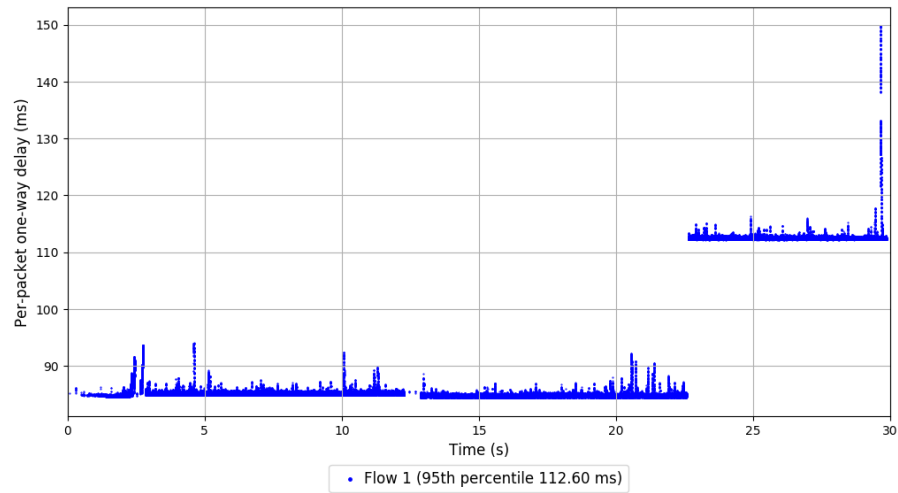
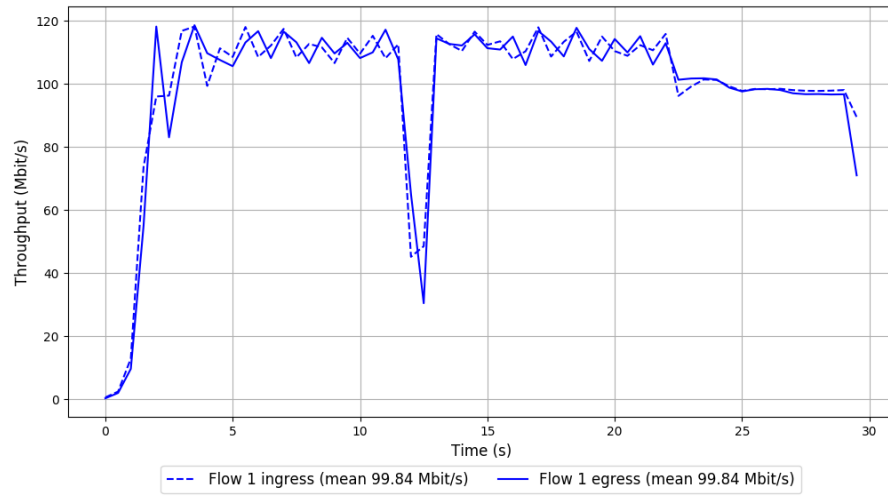
-- Flow 1:

Average throughput: 99.84 Mbit/s

95th percentile per-packet one-way delay: 112.600 ms

Loss rate: 0.67%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-30 11:42:25

End at: 2018-01-30 11:42:55

Below is generated by plot.py at 2018-01-30 15:57:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.42 Mbit/s

95th percentile per-packet one-way delay: 85.720 ms

Loss rate: 0.77%

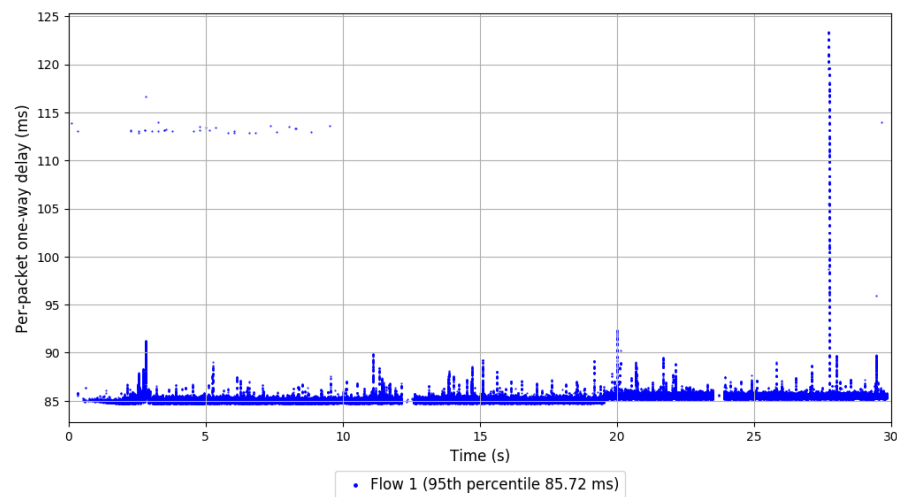
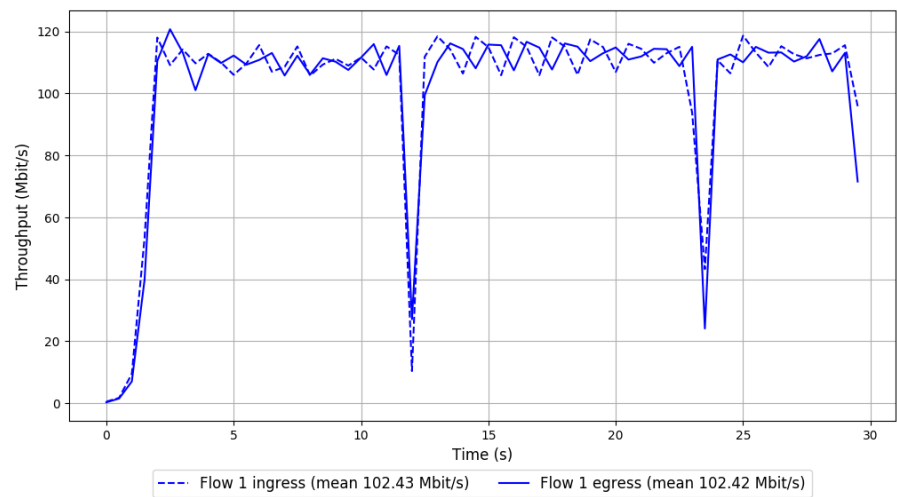
-- Flow 1:

Average throughput: 102.42 Mbit/s

95th percentile per-packet one-way delay: 85.720 ms

Loss rate: 0.77%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-30 11:57:18

End at: 2018-01-30 11:57:48

Below is generated by plot.py at 2018-01-30 15:57:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.09 Mbit/s

95th percentile per-packet one-way delay: 112.797 ms

Loss rate: 0.97%

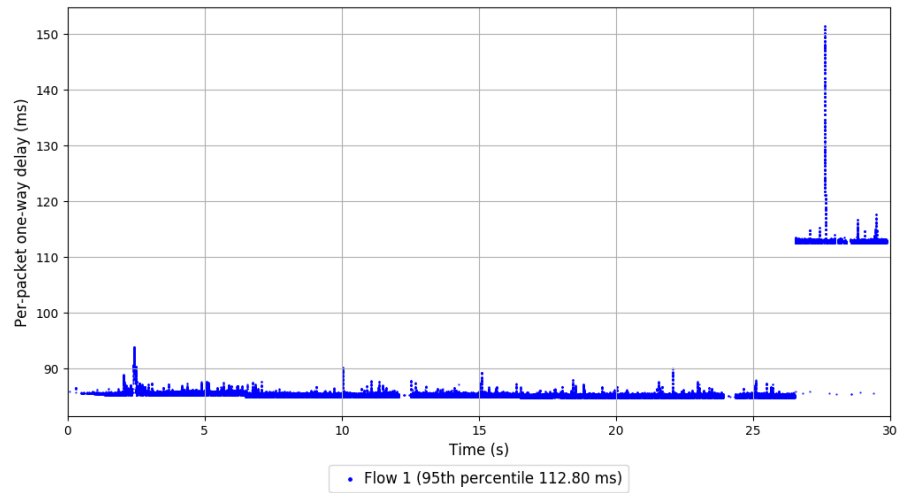
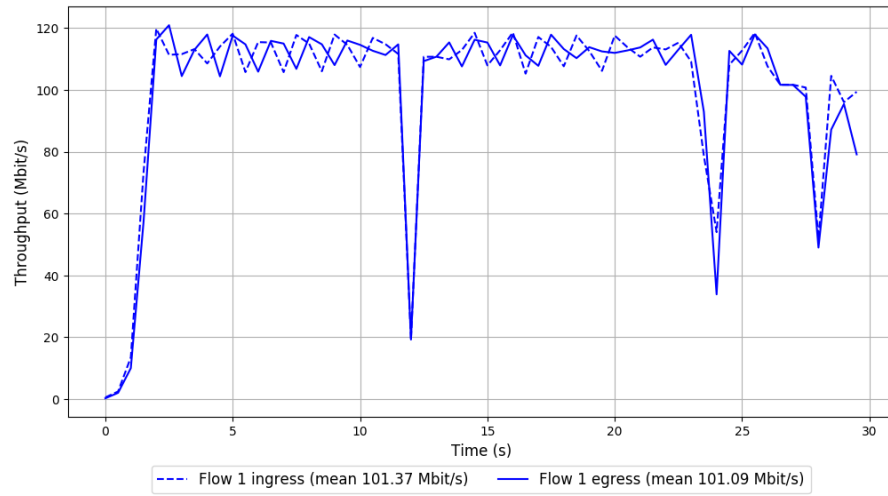
-- Flow 1:

Average throughput: 101.09 Mbit/s

95th percentile per-packet one-way delay: 112.797 ms

Loss rate: 0.97%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-30 12:11:52

End at: 2018-01-30 12:12:22

Below is generated by plot.py at 2018-01-30 15:57:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.13 Mbit/s

95th percentile per-packet one-way delay: 85.498 ms

Loss rate: 0.87%

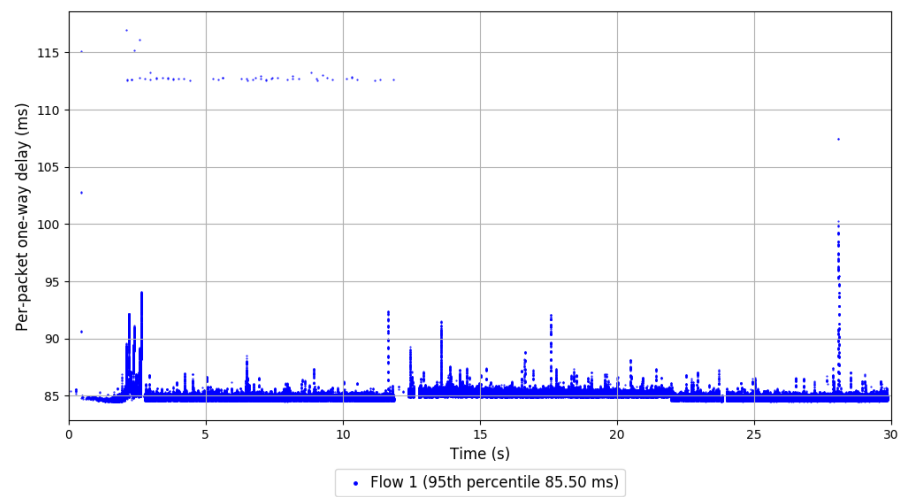
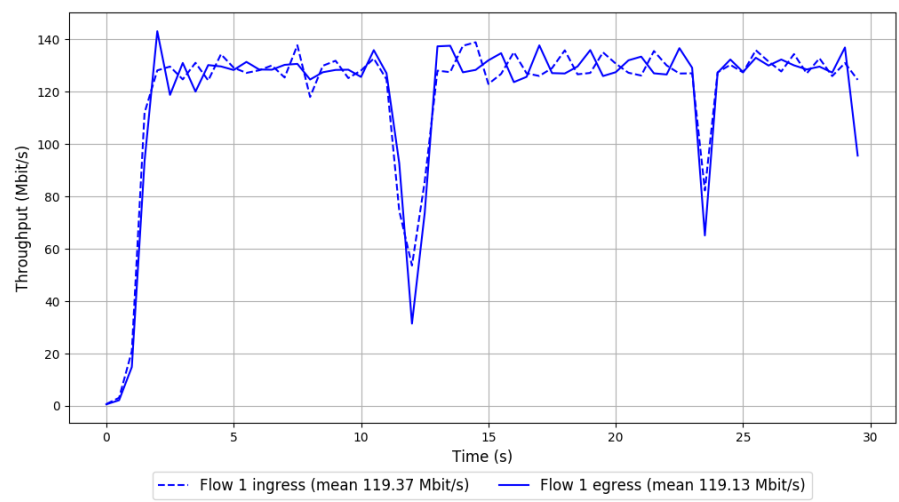
-- Flow 1:

Average throughput: 119.13 Mbit/s

95th percentile per-packet one-way delay: 85.498 ms

Loss rate: 0.87%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-30 12:26:35

End at: 2018-01-30 12:27:05

Run 7: Report of TCP BBR — Data Link

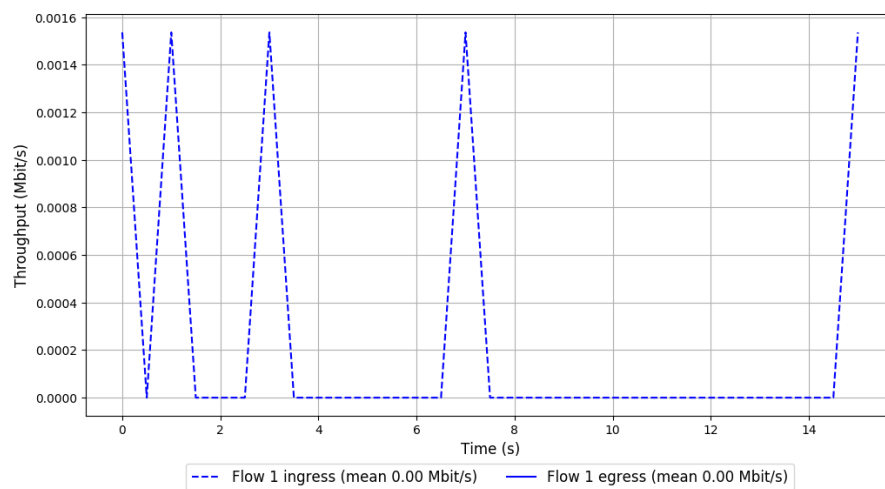


Figure is missing

Run 8: Statistics of TCP BBR

Start at: 2018-01-30 12:41:03

End at: 2018-01-30 12:41:33

Below is generated by plot.py at 2018-01-30 15:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.67 Mbit/s

95th percentile per-packet one-way delay: 85.081 ms

Loss rate: 0.95%

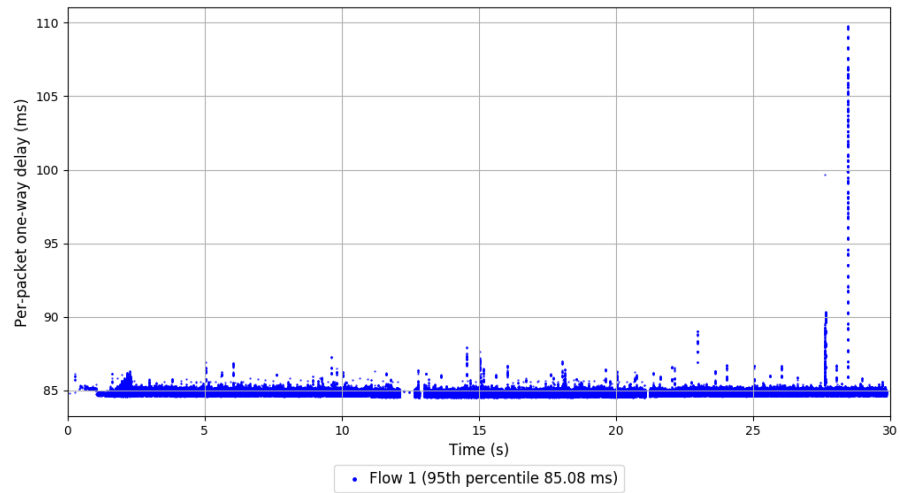
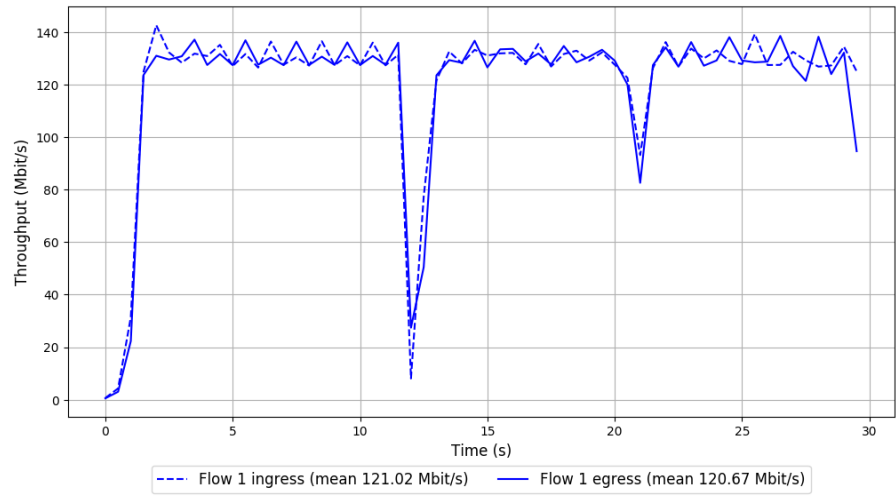
-- Flow 1:

Average throughput: 120.67 Mbit/s

95th percentile per-packet one-way delay: 85.081 ms

Loss rate: 0.95%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-30 12:55:56

End at: 2018-01-30 12:56:26

Below is generated by plot.py at 2018-01-30 15:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.42 Mbit/s

95th percentile per-packet one-way delay: 86.095 ms

Loss rate: 0.73%

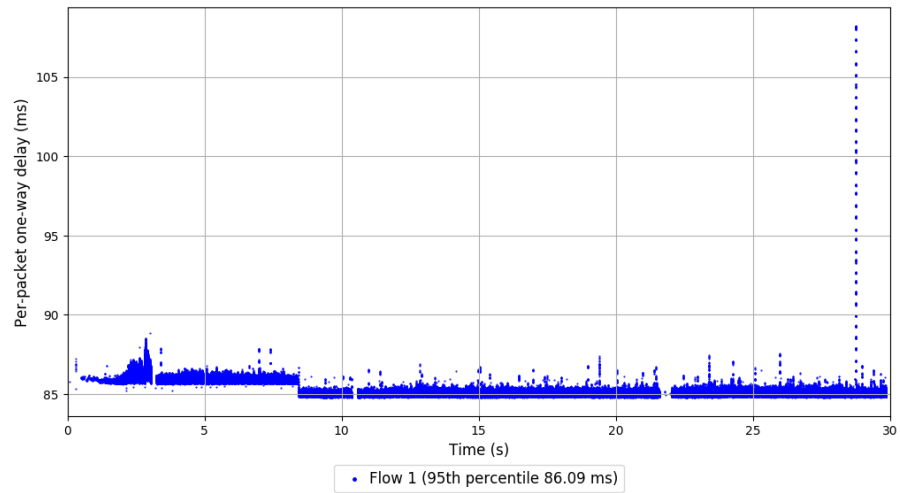
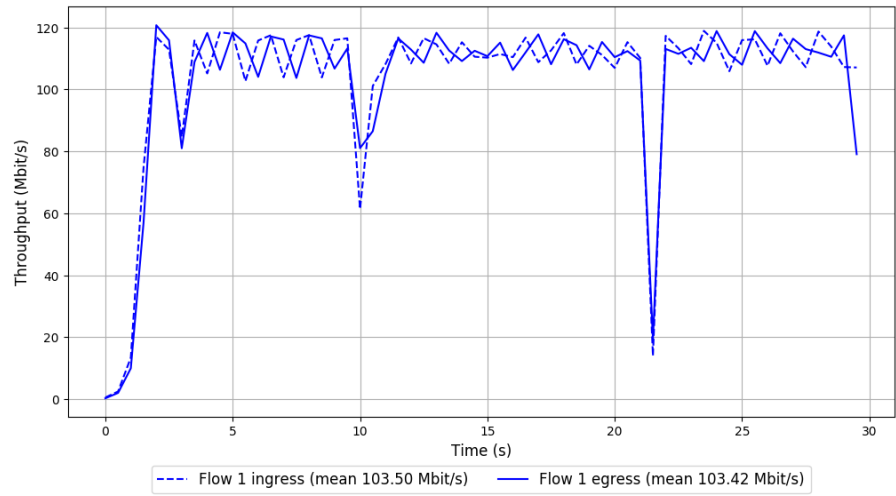
-- Flow 1:

Average throughput: 103.42 Mbit/s

95th percentile per-packet one-way delay: 86.095 ms

Loss rate: 0.73%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-30 13:10:31

End at: 2018-01-30 13:11:01

Run 10: Report of TCP BBR — Data Link

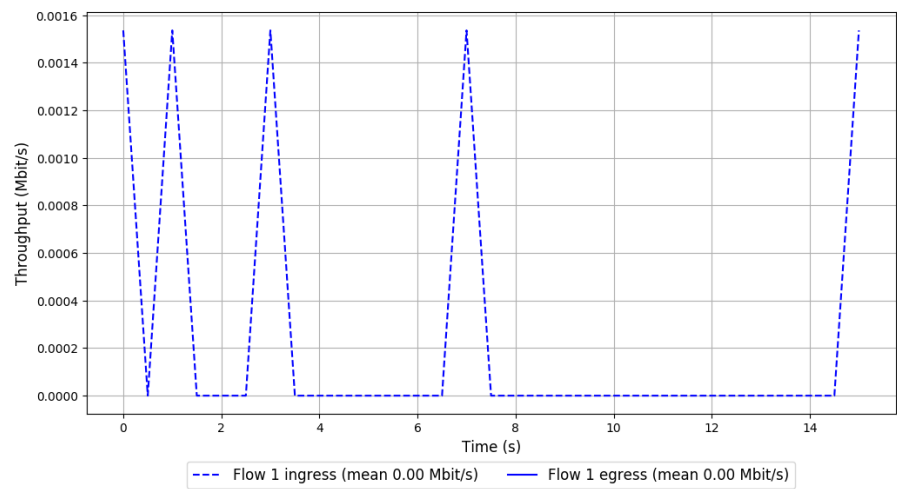


Figure is missing

Run 1: Statistics of TCP Cubic

Start at: 2018-01-30 11:02:50

End at: 2018-01-30 11:03:20

Below is generated by plot.py at 2018-01-30 15:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.44 Mbit/s

95th percentile per-packet one-way delay: 86.486 ms

Loss rate: 1.47%

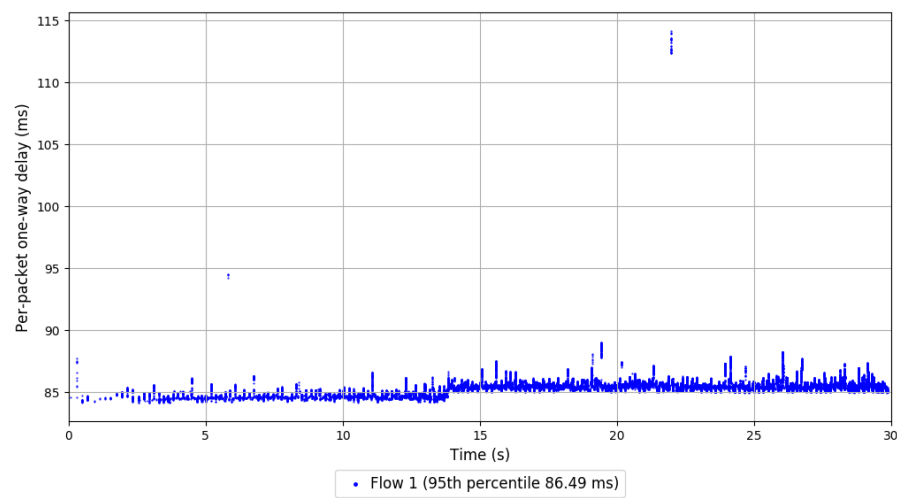
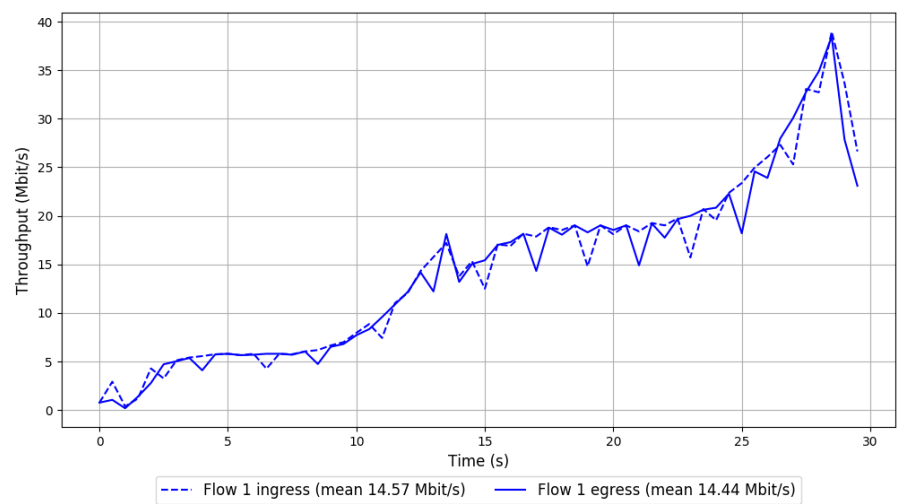
-- Flow 1:

Average throughput: 14.44 Mbit/s

95th percentile per-packet one-way delay: 86.486 ms

Loss rate: 1.47%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-30 11:17:22

End at: 2018-01-30 11:17:52

Below is generated by plot.py at 2018-01-30 15:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.17 Mbit/s

95th percentile per-packet one-way delay: 86.228 ms

Loss rate: 1.16%

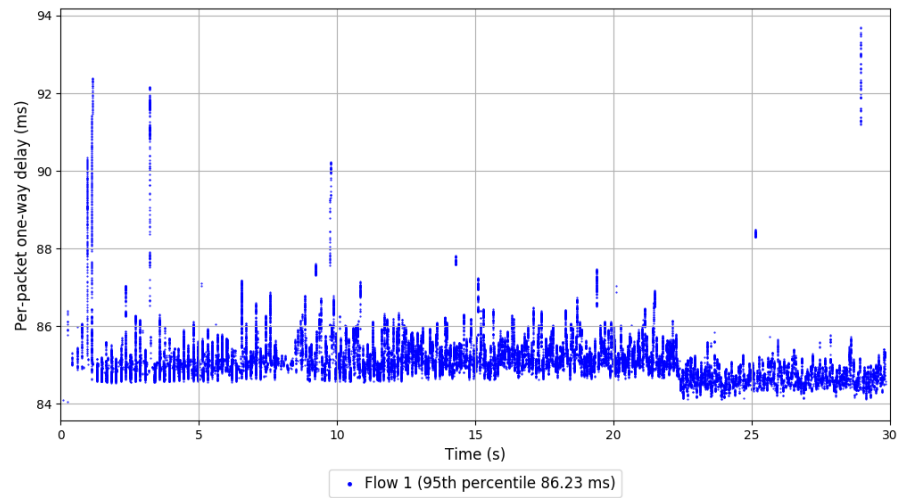
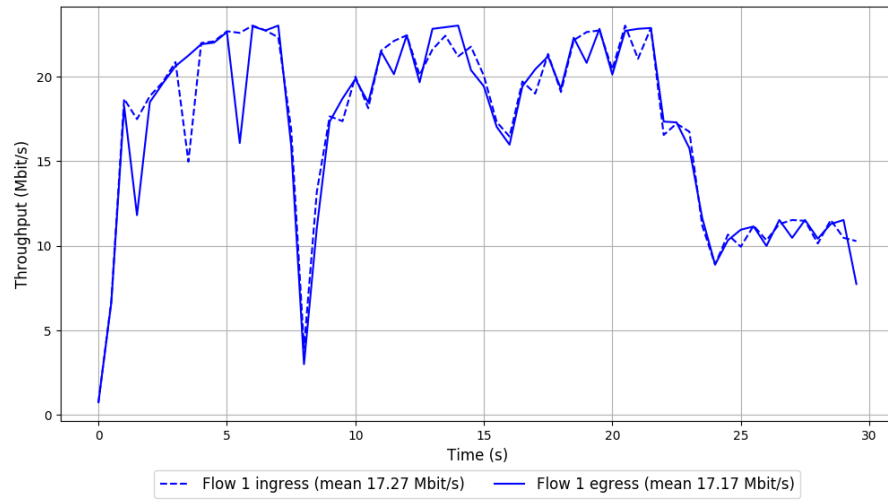
-- Flow 1:

Average throughput: 17.17 Mbit/s

95th percentile per-packet one-way delay: 86.228 ms

Loss rate: 1.16%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-30 11:32:01

End at: 2018-01-30 11:32:31

Below is generated by plot.py at 2018-01-30 15:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 94.063 ms

Loss rate: 0.84%

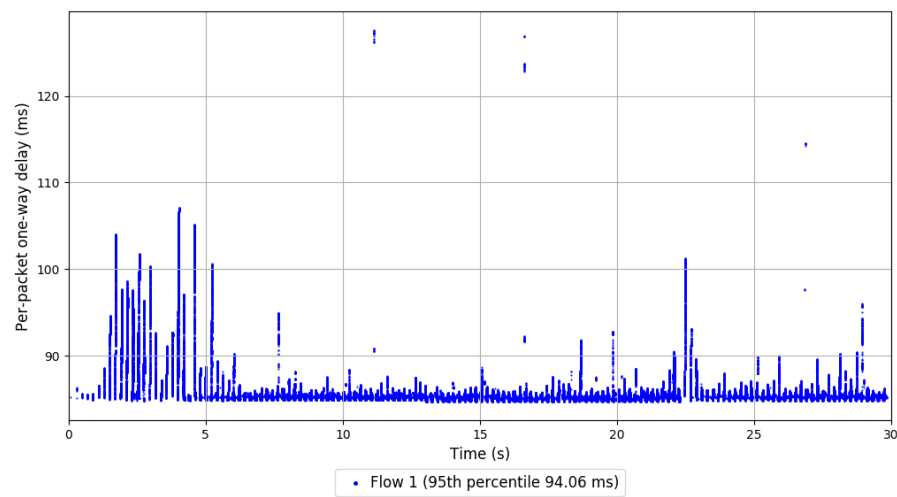
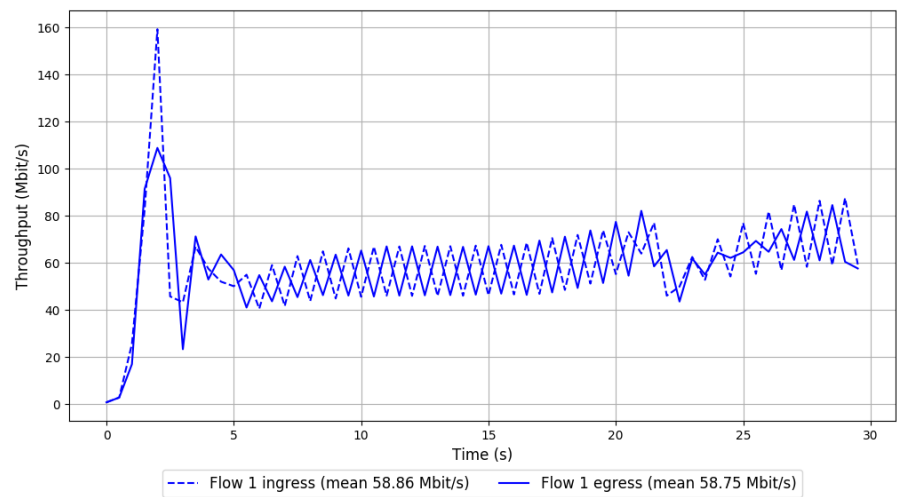
-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 94.063 ms

Loss rate: 0.84%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-30 11:46:51

End at: 2018-01-30 11:47:21

Below is generated by plot.py at 2018-01-30 15:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 96.720 ms

Loss rate: 1.37%

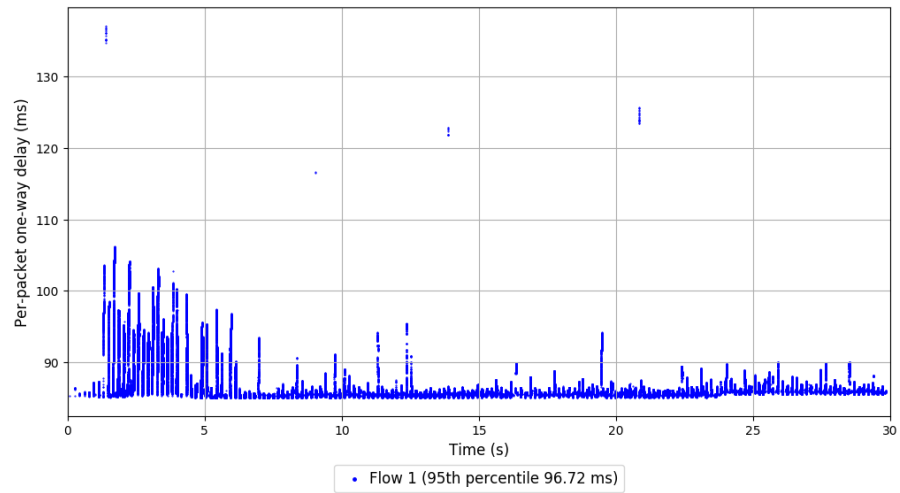
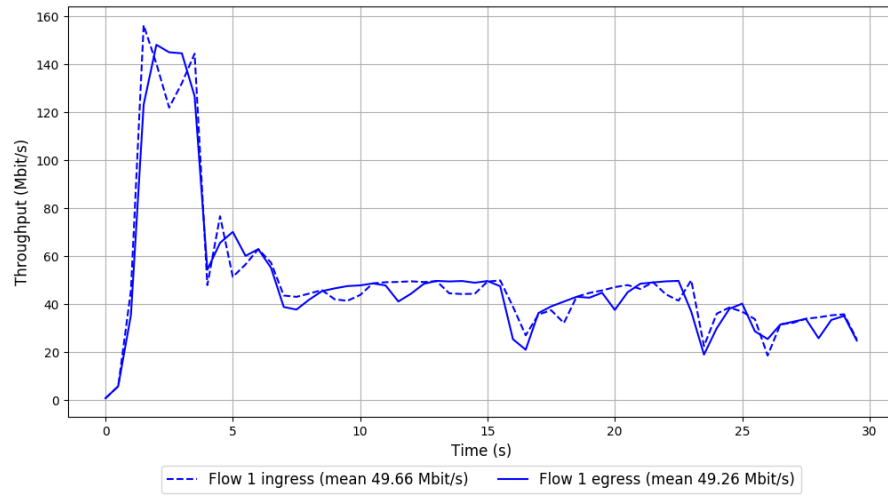
-- Flow 1:

Average throughput: 49.26 Mbit/s

95th percentile per-packet one-way delay: 96.720 ms

Loss rate: 1.37%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-30 12:01:45

End at: 2018-01-30 12:02:15

Below is generated by plot.py at 2018-01-30 15:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.13 Mbit/s

95th percentile per-packet one-way delay: 98.848 ms

Loss rate: 1.80%

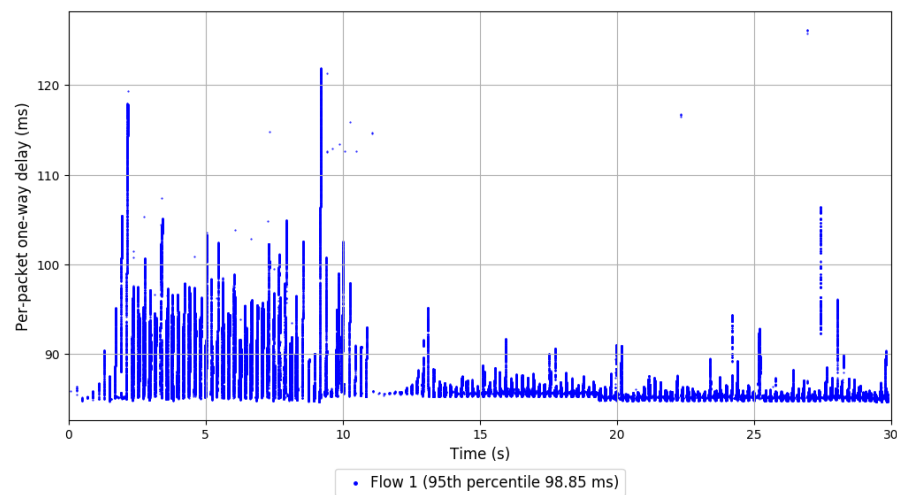
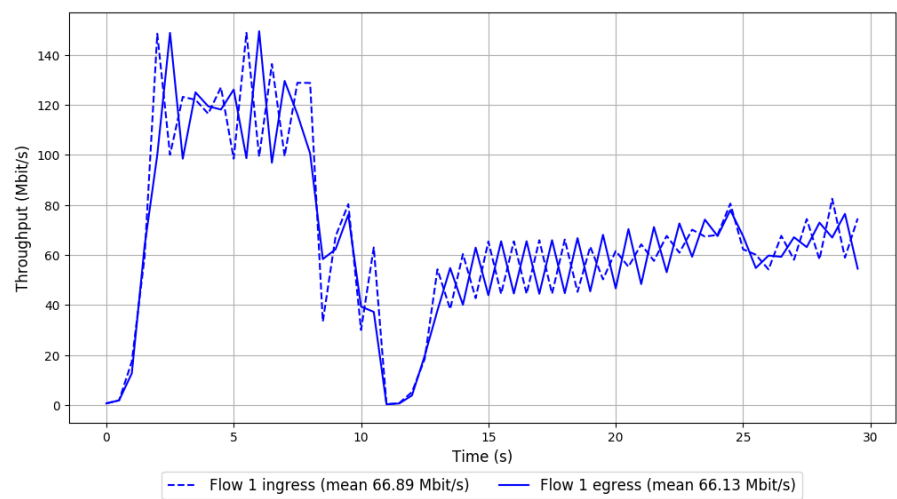
-- Flow 1:

Average throughput: 66.13 Mbit/s

95th percentile per-packet one-way delay: 98.848 ms

Loss rate: 1.80%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-30 12:16:16

End at: 2018-01-30 12:16:46

Below is generated by plot.py at 2018-01-30 15:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.90 Mbit/s

95th percentile per-packet one-way delay: 94.098 ms

Loss rate: 0.66%

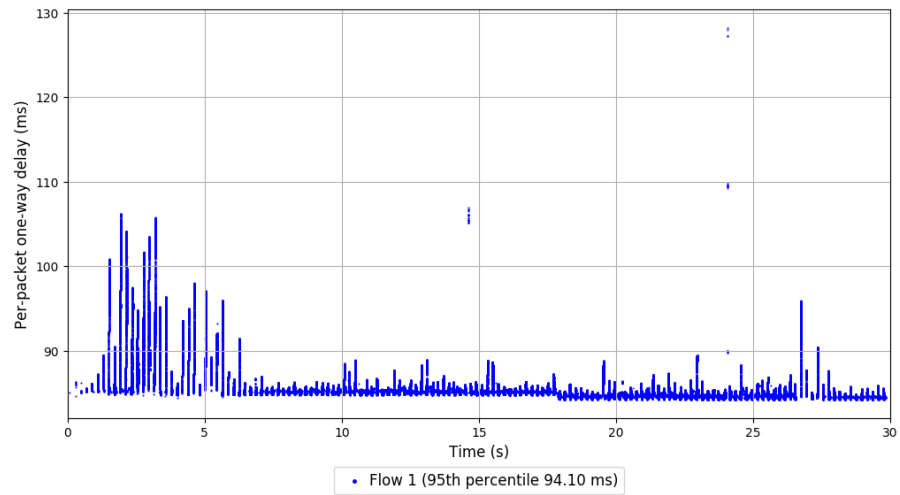
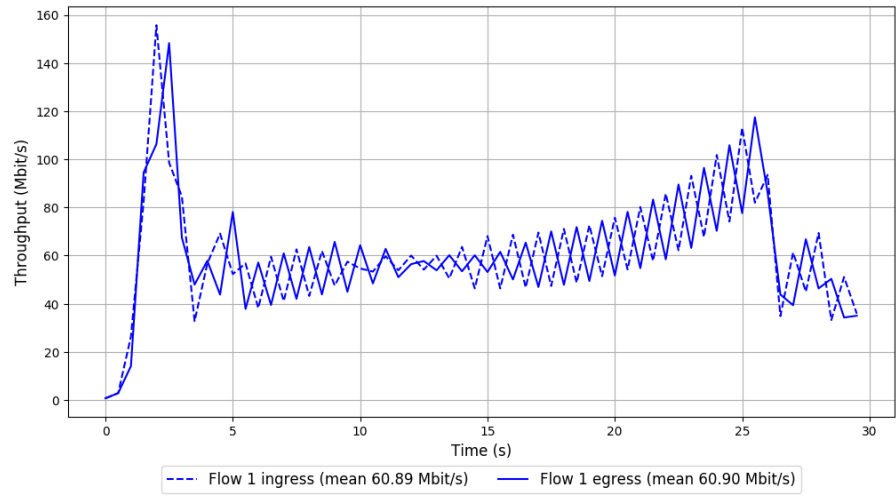
-- Flow 1:

Average throughput: 60.90 Mbit/s

95th percentile per-packet one-way delay: 94.098 ms

Loss rate: 0.66%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-30 12:30:53

End at: 2018-01-30 12:31:23

Below is generated by plot.py at 2018-01-30 15:58:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.50 Mbit/s

95th percentile per-packet one-way delay: 99.417 ms

Loss rate: 0.41%

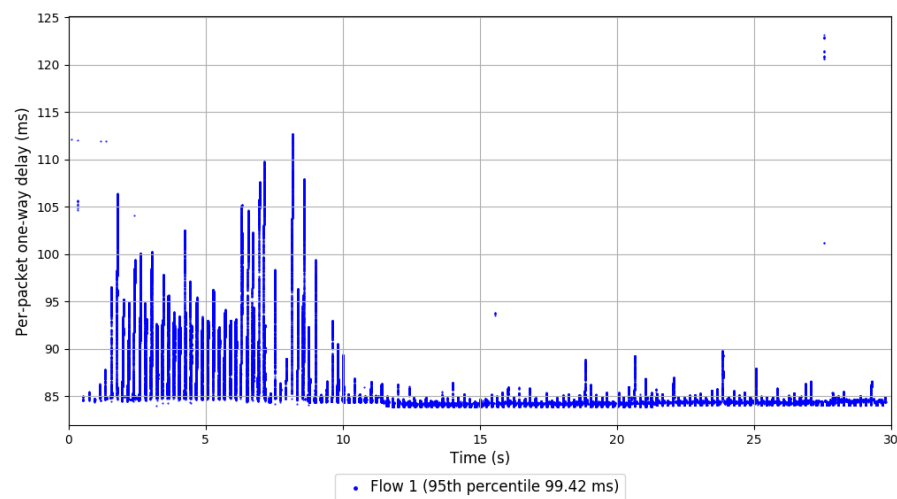
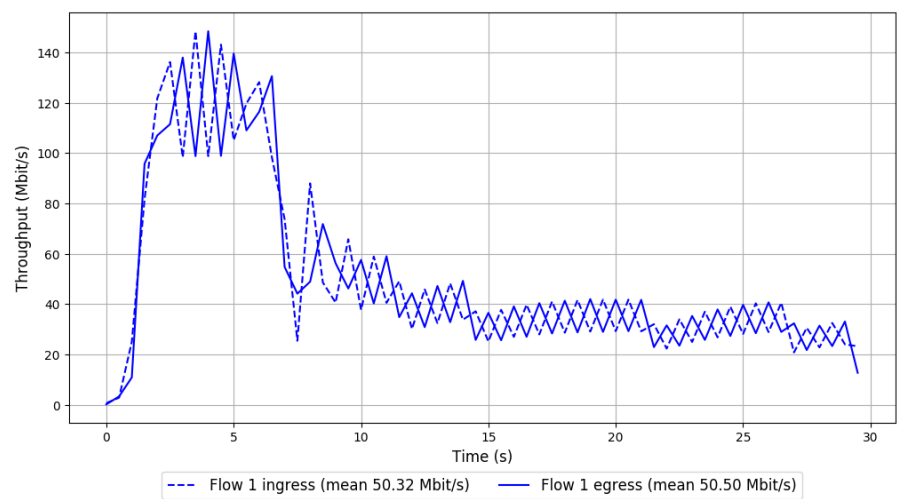
-- Flow 1:

Average throughput: 50.50 Mbit/s

95th percentile per-packet one-way delay: 99.417 ms

Loss rate: 0.41%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-30 12:45:27

End at: 2018-01-30 12:45:57

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.24 Mbit/s

95th percentile per-packet one-way delay: 112.551 ms

Loss rate: 1.75%

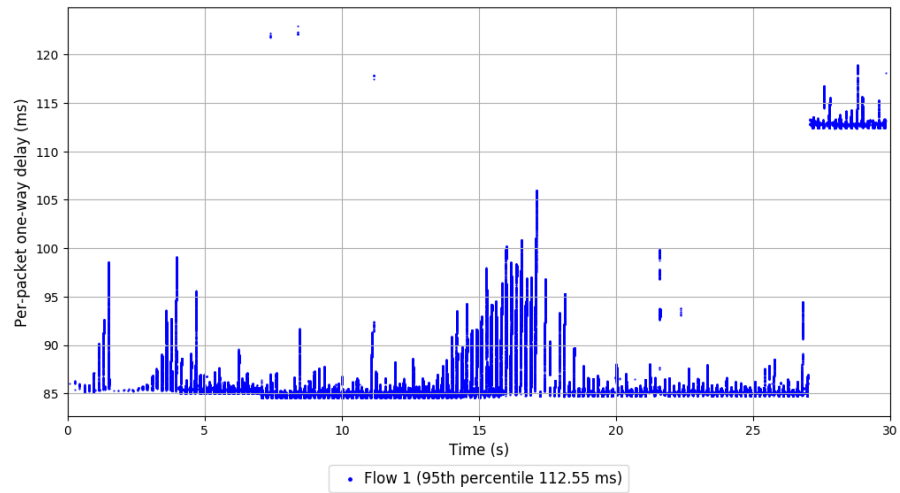
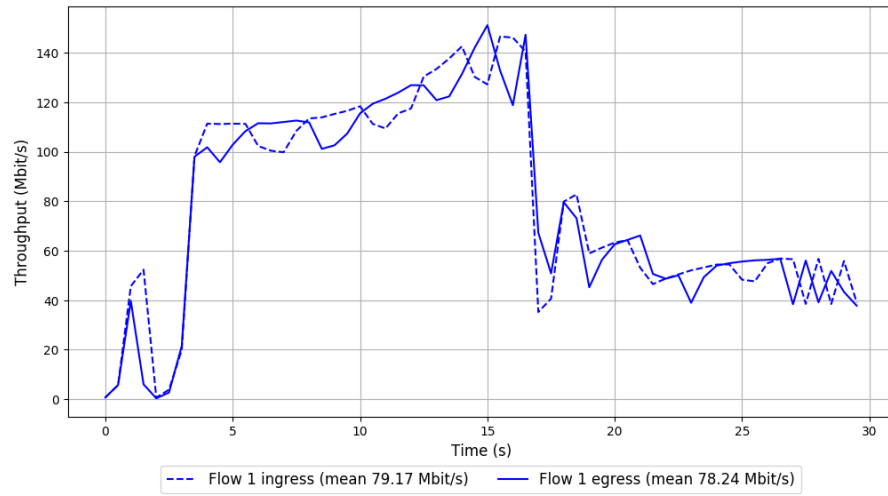
-- Flow 1:

Average throughput: 78.24 Mbit/s

95th percentile per-packet one-way delay: 112.551 ms

Loss rate: 1.75%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-30 13:00:21

End at: 2018-01-30 13:00:51

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.55 Mbit/s

95th percentile per-packet one-way delay: 95.454 ms

Loss rate: 0.42%

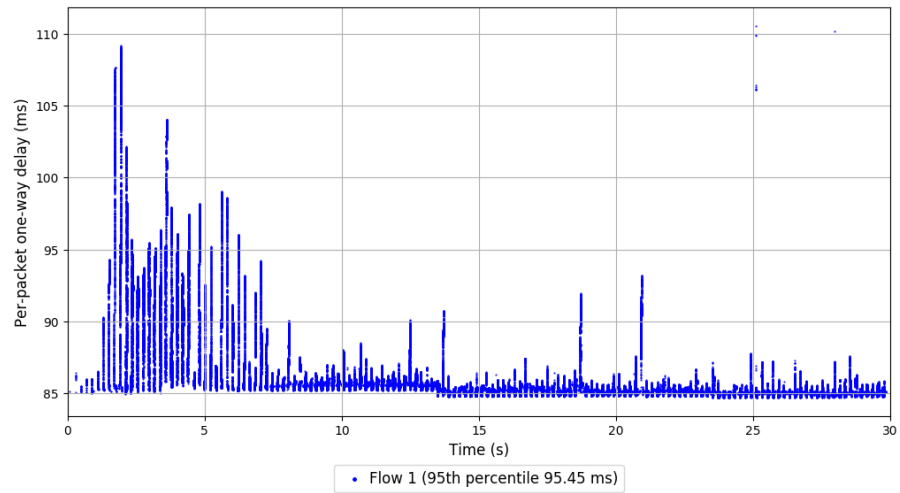
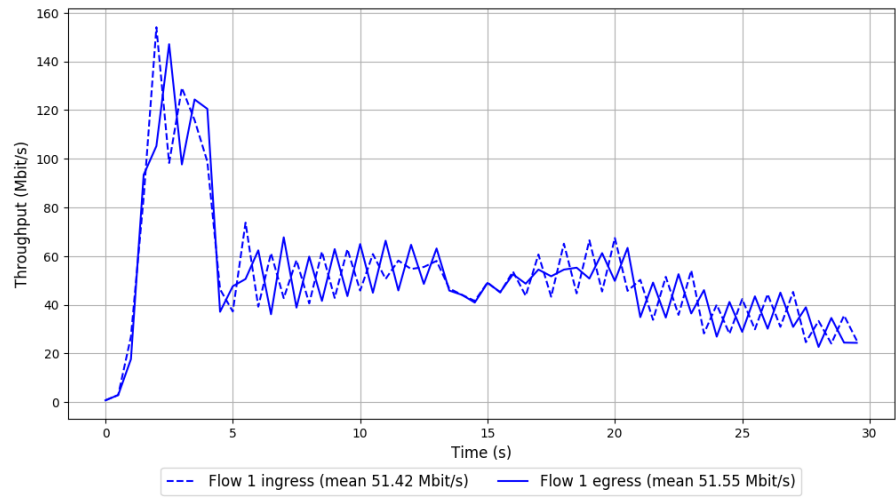
-- Flow 1:

Average throughput: 51.55 Mbit/s

95th percentile per-packet one-way delay: 95.454 ms

Loss rate: 0.42%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-30 13:14:50

End at: 2018-01-30 13:15:20

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 93.599 ms

Loss rate: 1.01%

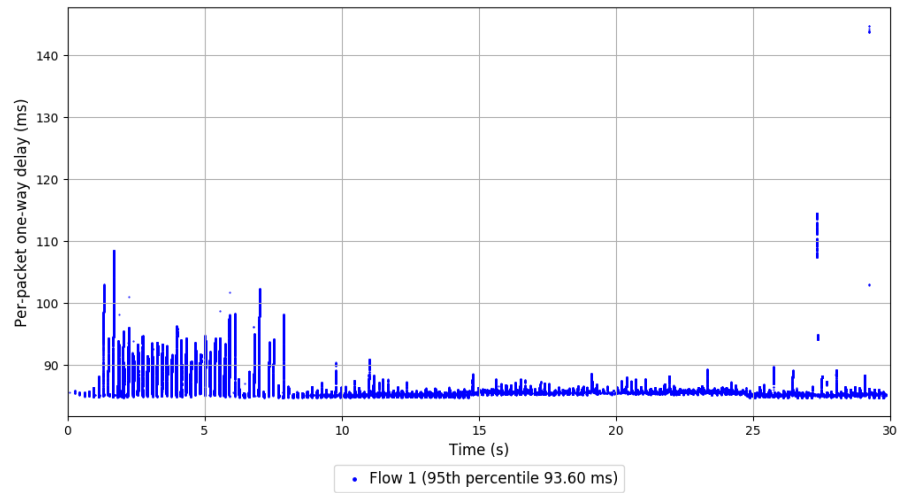
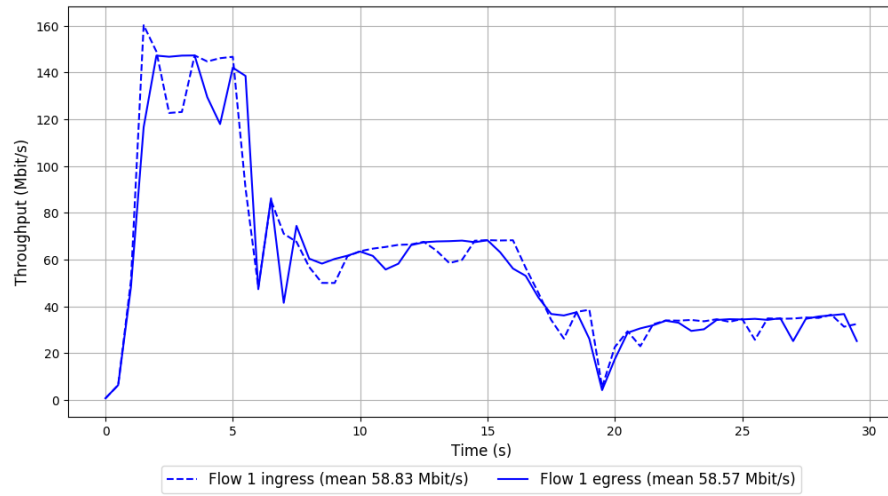
-- Flow 1:

Average throughput: 58.57 Mbit/s

95th percentile per-packet one-way delay: 93.599 ms

Loss rate: 1.01%

Run 10: Report of TCP Cubic — Data Link

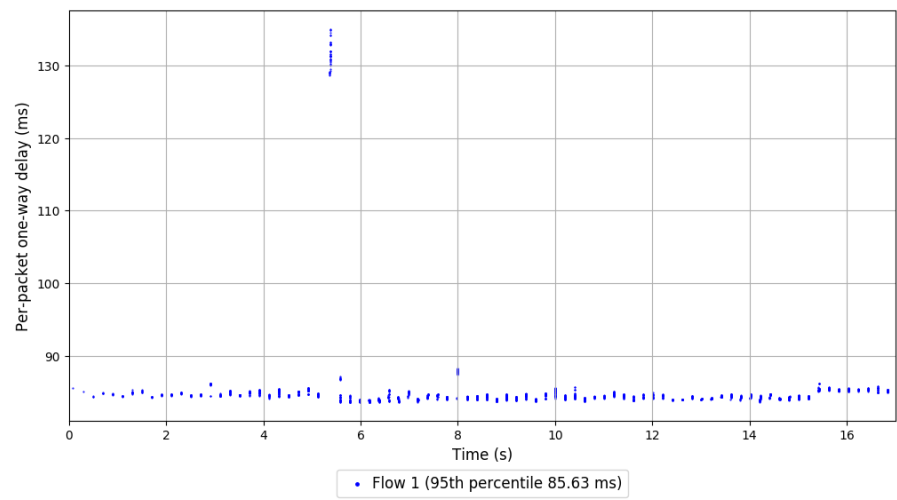
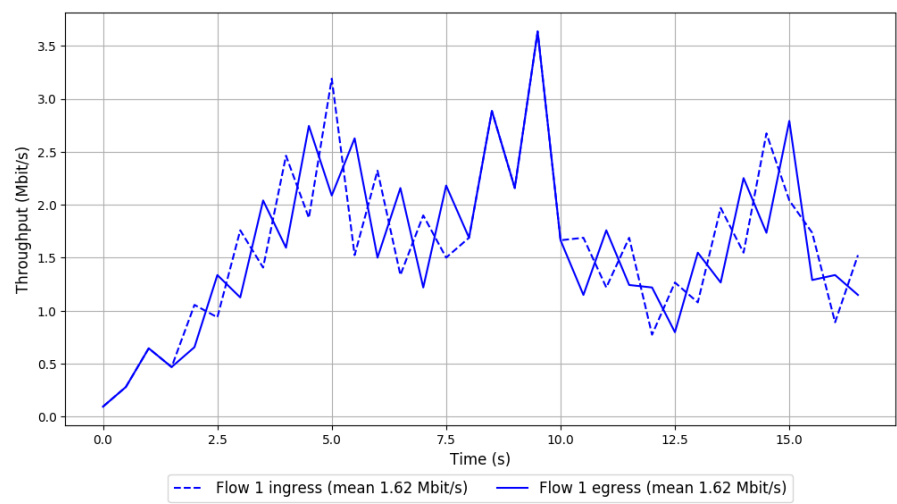


Run 1: Statistics of LEDBAT

Start at: 2018-01-30 11:07:06

End at: 2018-01-30 11:07:36

Run 1: Report of LEDBAT — Data Link

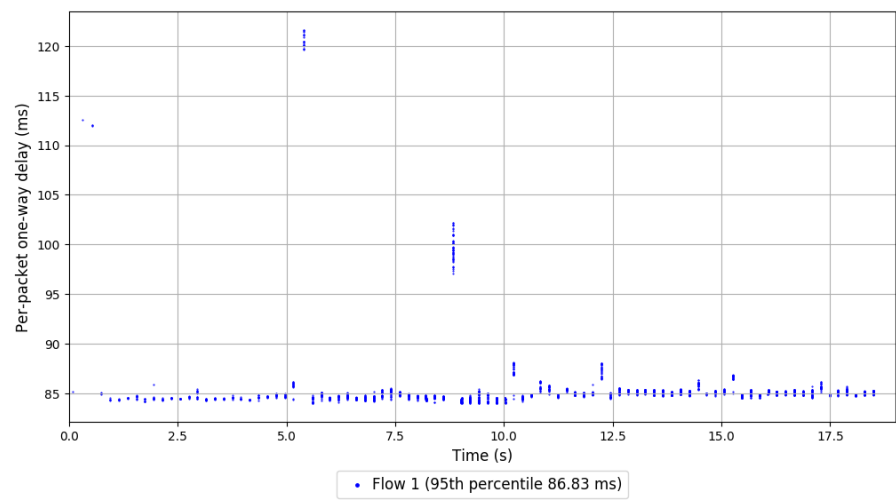
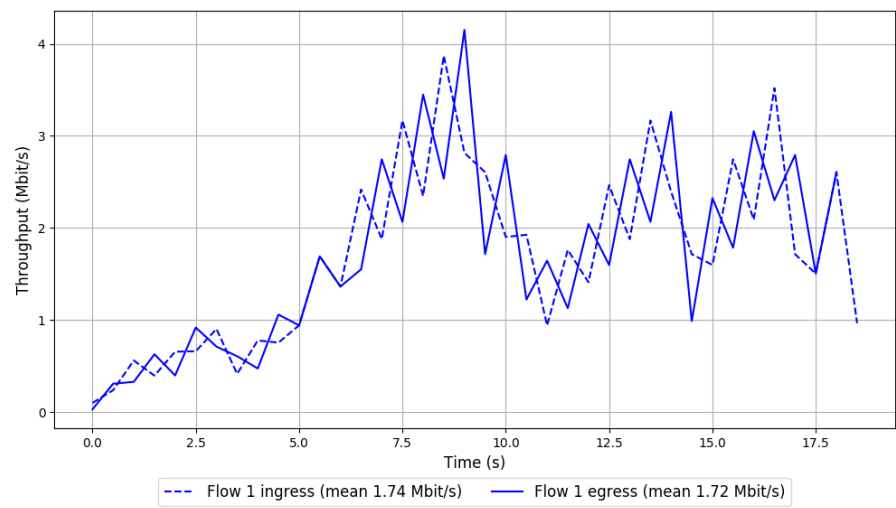


Run 2: Statistics of LEDBAT

Start at: 2018-01-30 11:21:42

End at: 2018-01-30 11:22:12

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-30 11:36:20

End at: 2018-01-30 11:36:50

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 113.675 ms

Loss rate: 0.86%

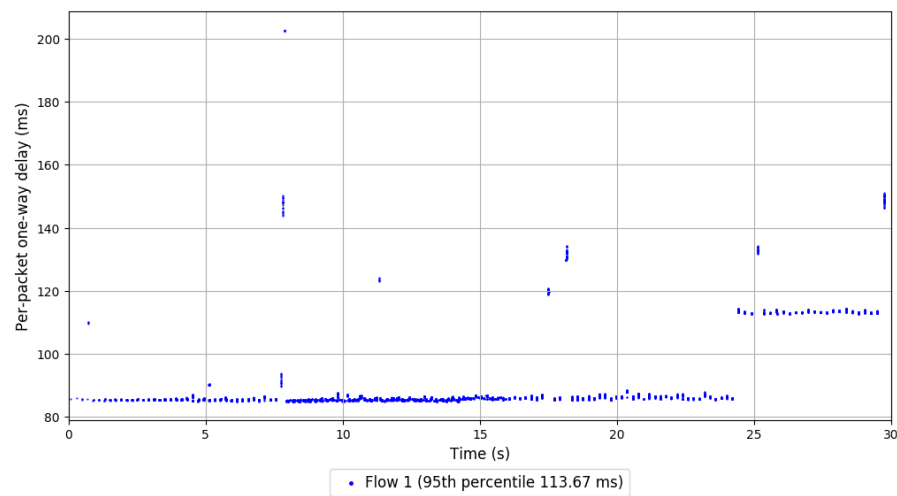
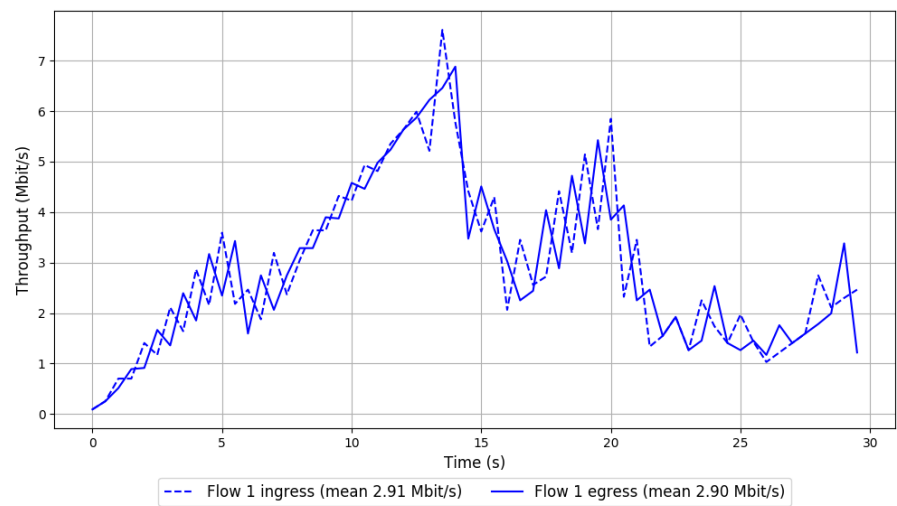
-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 113.675 ms

Loss rate: 0.86%

Run 3: Report of LEDBAT — Data Link

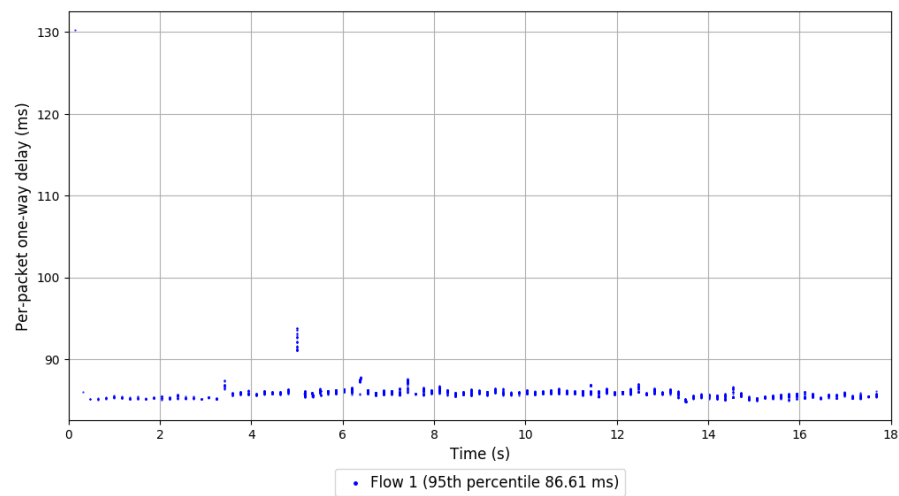
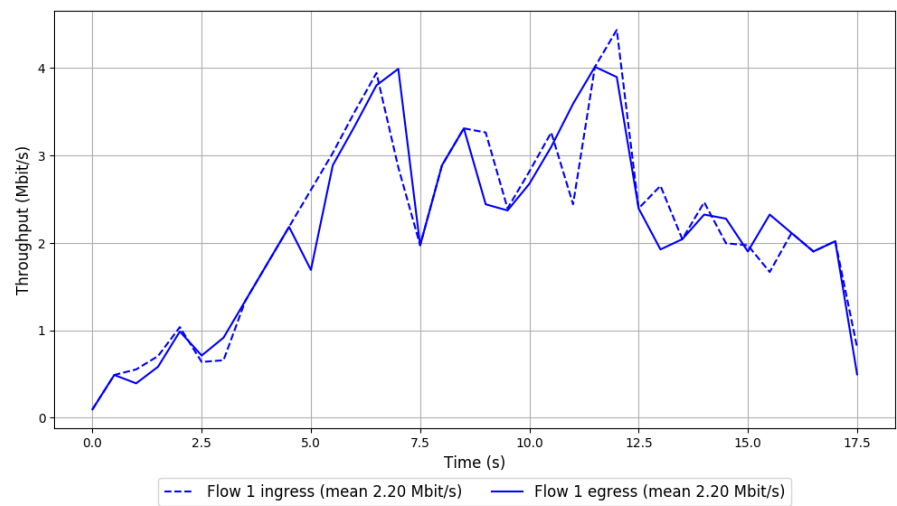


Run 4: Statistics of LEDBAT

Start at: 2018-01-30 11:51:09

End at: 2018-01-30 11:51:39

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-30 12:06:02

End at: 2018-01-30 12:06:32

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 86.860 ms

Loss rate: 2.09%

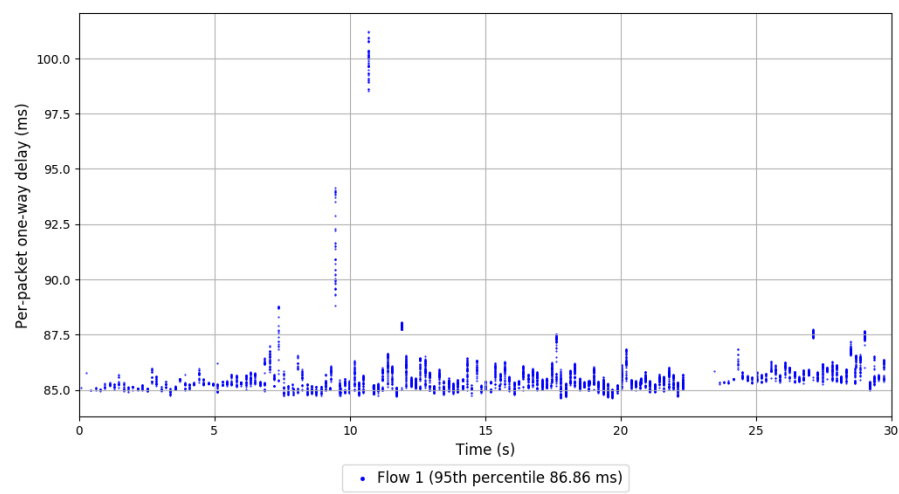
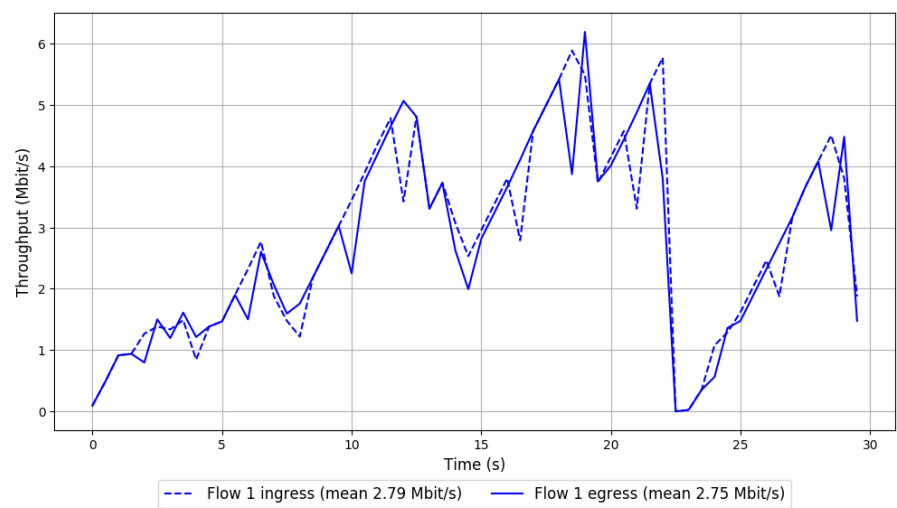
-- Flow 1:

Average throughput: 2.75 Mbit/s

95th percentile per-packet one-way delay: 86.860 ms

Loss rate: 2.09%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-30 12:20:33

End at: 2018-01-30 12:21:03

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 112.896 ms

Loss rate: 2.53%

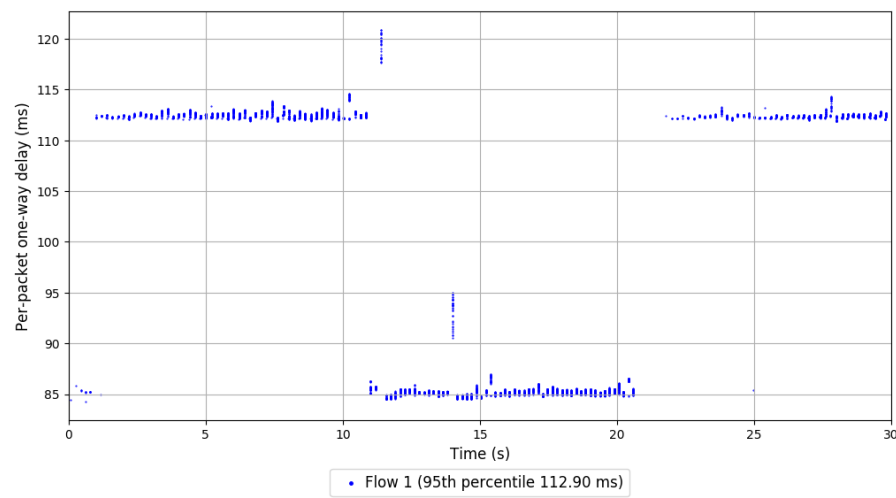
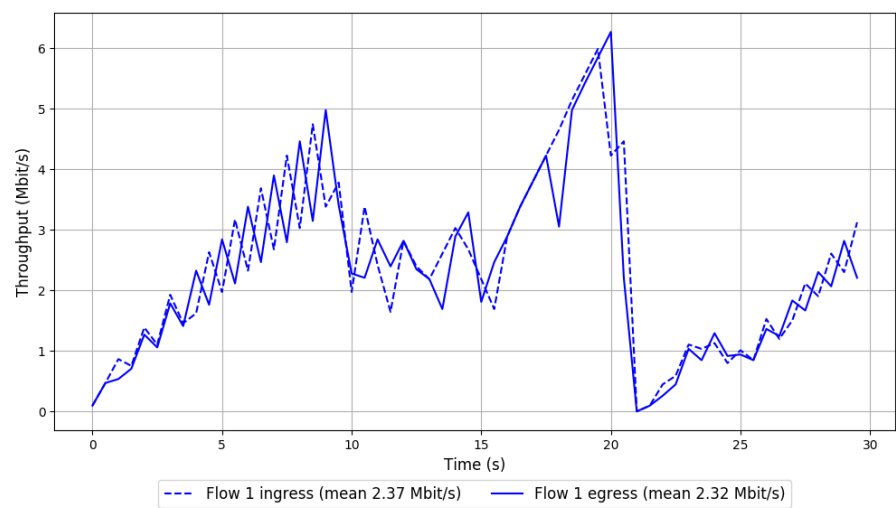
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 112.896 ms

Loss rate: 2.53%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-30 12:35:01

End at: 2018-01-30 12:35:31

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 86.069 ms

Loss rate: 0.75%

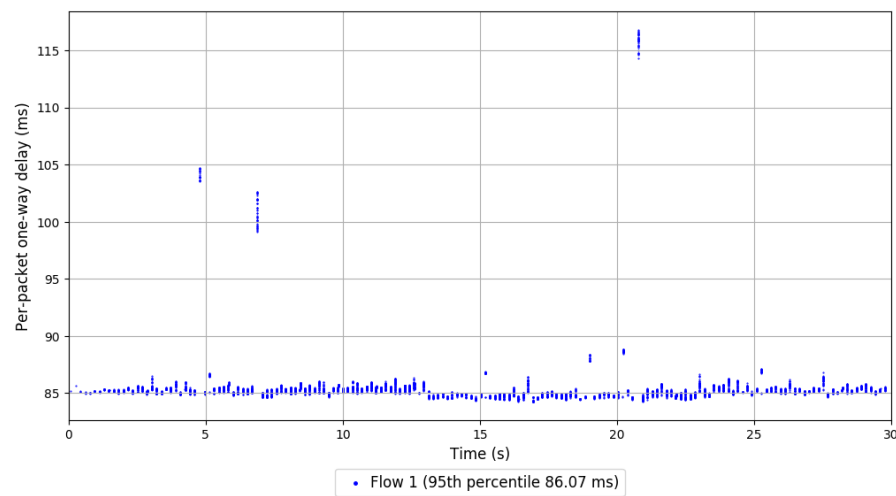
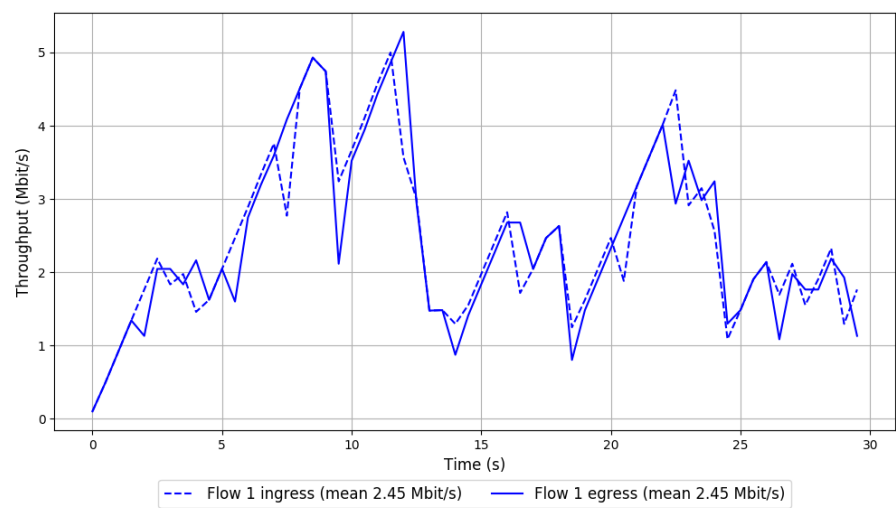
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 86.069 ms

Loss rate: 0.75%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-30 12:49:50

End at: 2018-01-30 12:50:20

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 86.820 ms

Loss rate: 2.68%

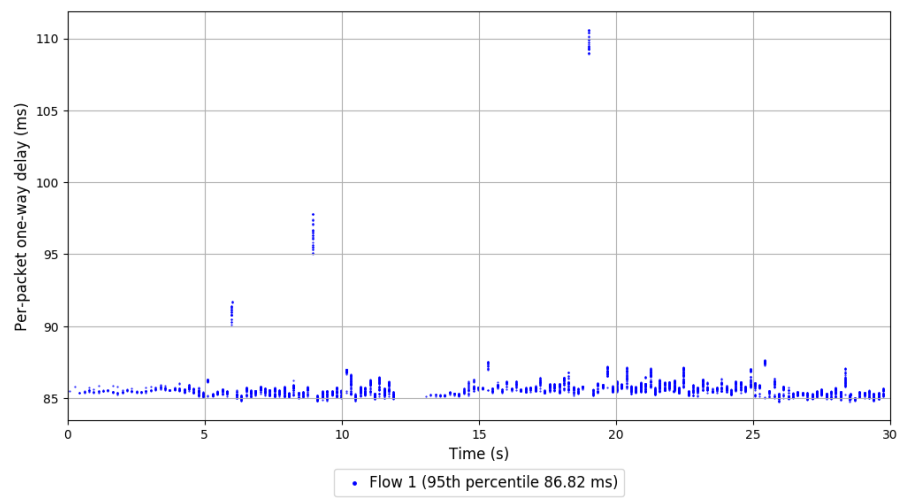
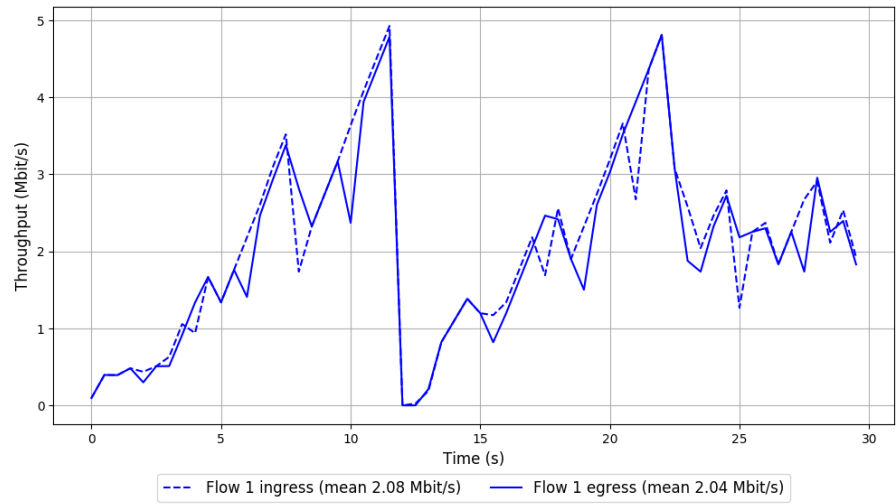
-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 86.820 ms

Loss rate: 2.68%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-30 13:04:36

End at: 2018-01-30 13:05:06

Below is generated by plot.py at 2018-01-30 15:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 86.612 ms

Loss rate: 0.71%

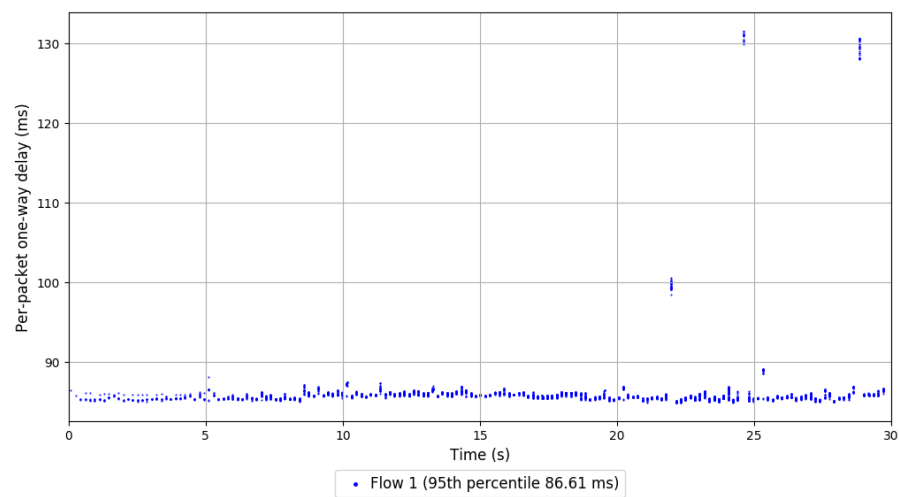
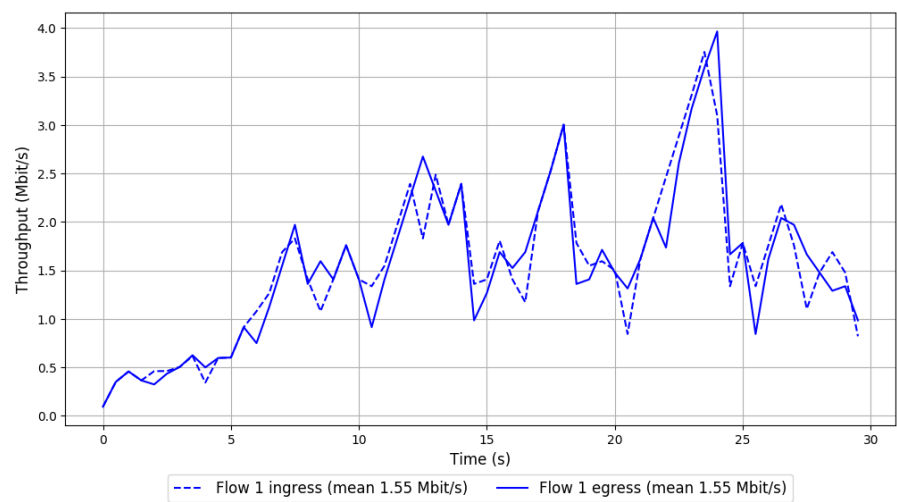
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 86.612 ms

Loss rate: 0.71%

Run 9: Report of LEDBAT — Data Link

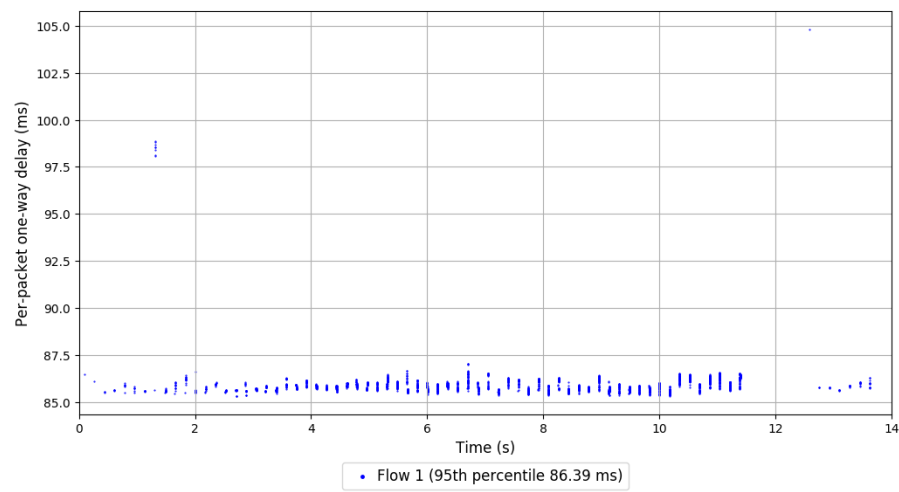
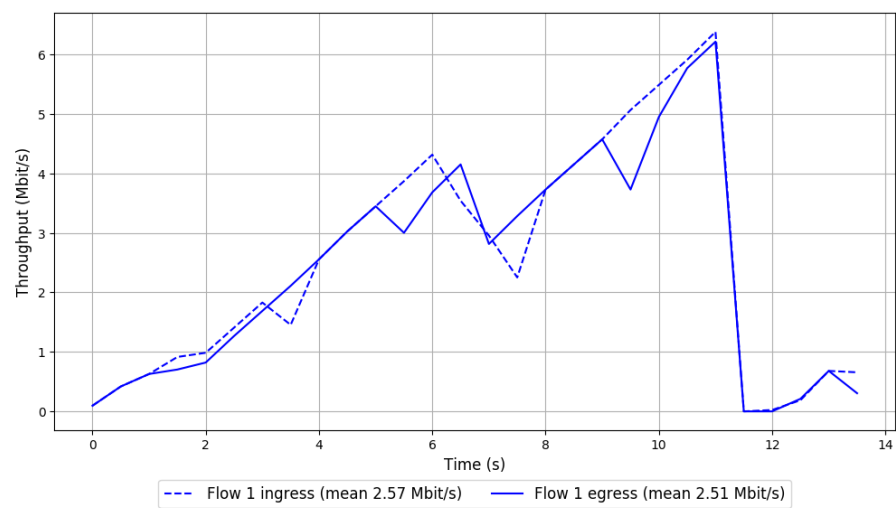


Run 10: Statistics of LEDBAT

Start at: 2018-01-30 13:19:05

End at: 2018-01-30 13:19:35

Run 10: Report of LEDBAT — Data Link

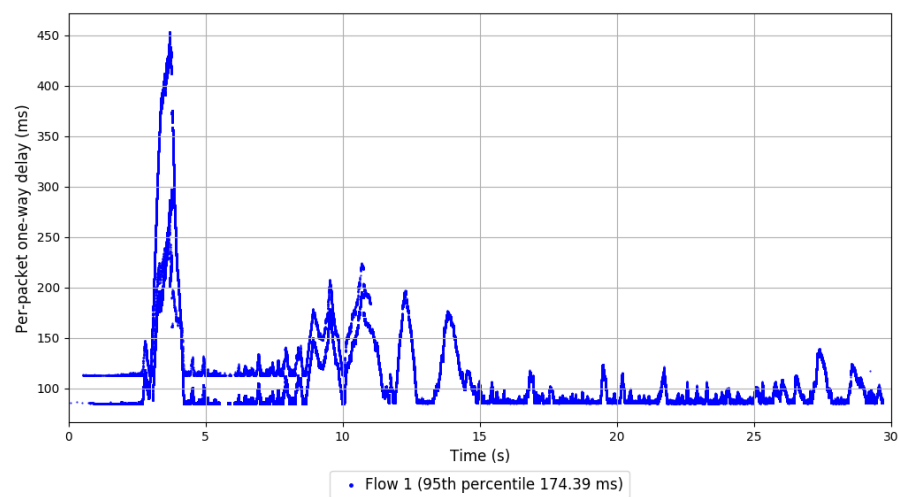
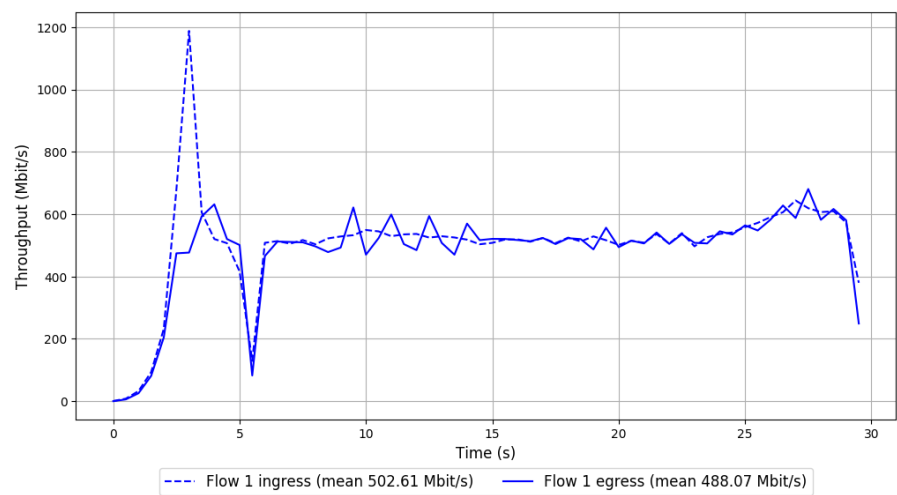


```
Run 1: Statistics of PCC

Start at: 2018-01-30 10:56:23
End at: 2018-01-30 10:56:53

# Below is generated by plot.py at 2018-01-30 16:09:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 488.07 Mbit/s
95th percentile per-packet one-way delay: 174.392 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 488.07 Mbit/s
95th percentile per-packet one-way delay: 174.392 ms
Loss rate: 3.53%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-30 11:11:07

End at: 2018-01-30 11:11:37

Below is generated by plot.py at 2018-01-30 16:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.18 Mbit/s

95th percentile per-packet one-way delay: 134.002 ms

Loss rate: 2.01%

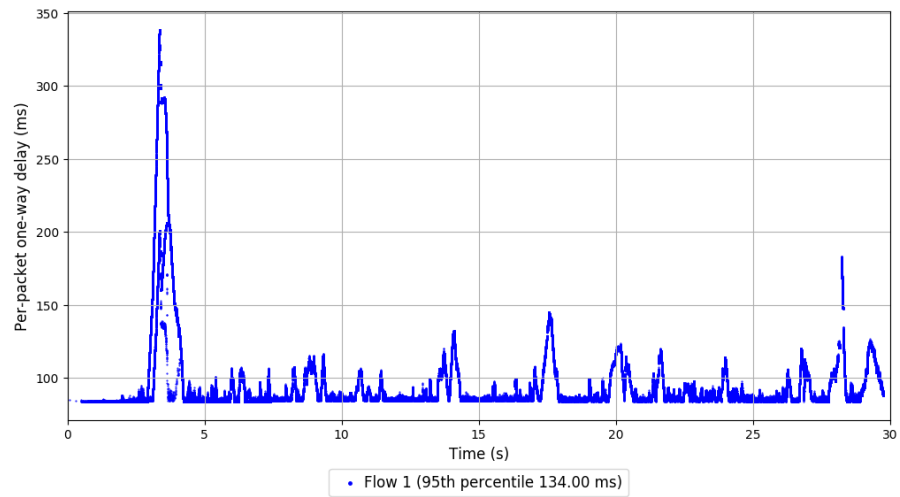
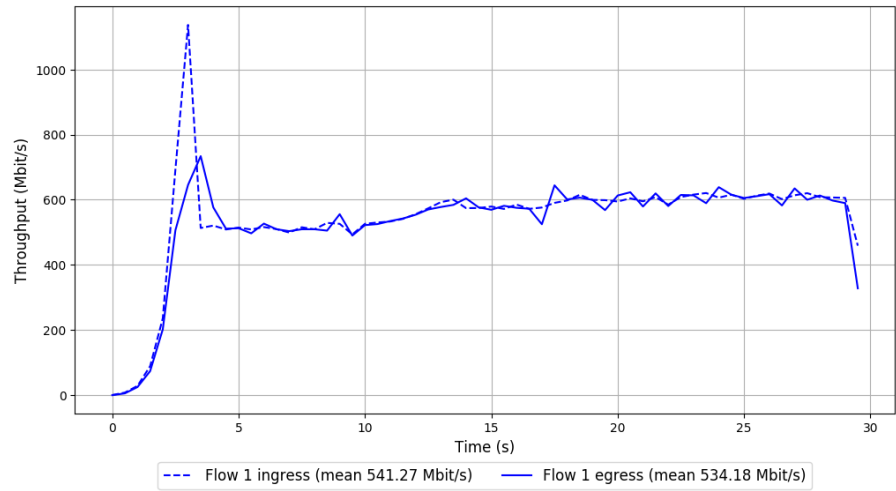
-- Flow 1:

Average throughput: 534.18 Mbit/s

95th percentile per-packet one-way delay: 134.002 ms

Loss rate: 2.01%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-30 11:25:40

End at: 2018-01-30 11:26:10

Below is generated by plot.py at 2018-01-30 16:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 478.53 Mbit/s

95th percentile per-packet one-way delay: 158.533 ms

Loss rate: 2.84%

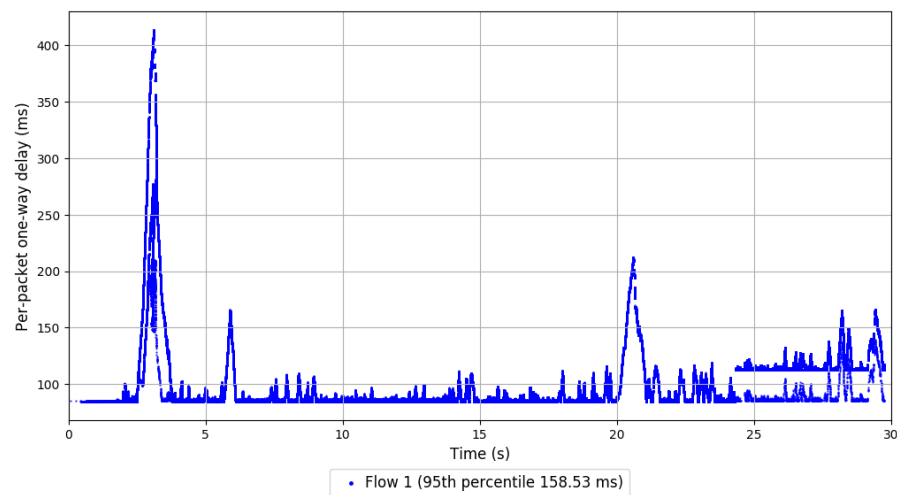
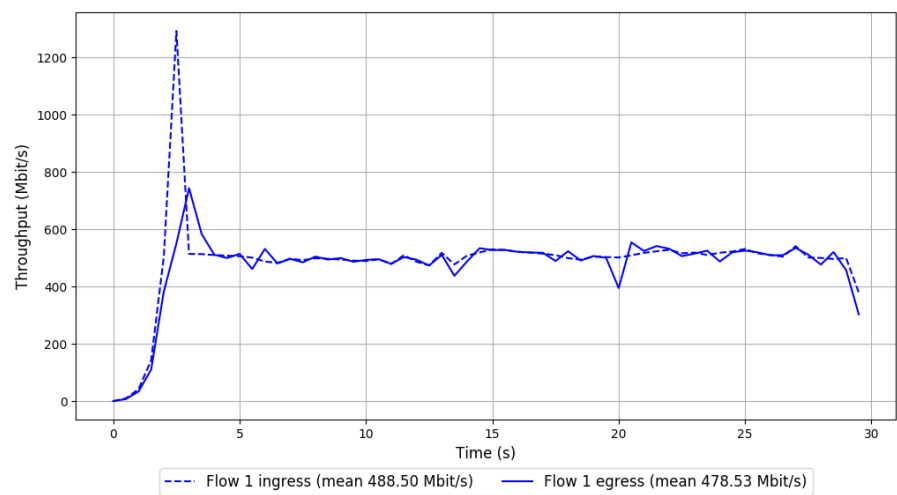
-- Flow 1:

Average throughput: 478.53 Mbit/s

95th percentile per-packet one-way delay: 158.533 ms

Loss rate: 2.84%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-30 11:40:21

End at: 2018-01-30 11:40:51

Below is generated by plot.py at 2018-01-30 16:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.55 Mbit/s

95th percentile per-packet one-way delay: 151.829 ms

Loss rate: 1.93%

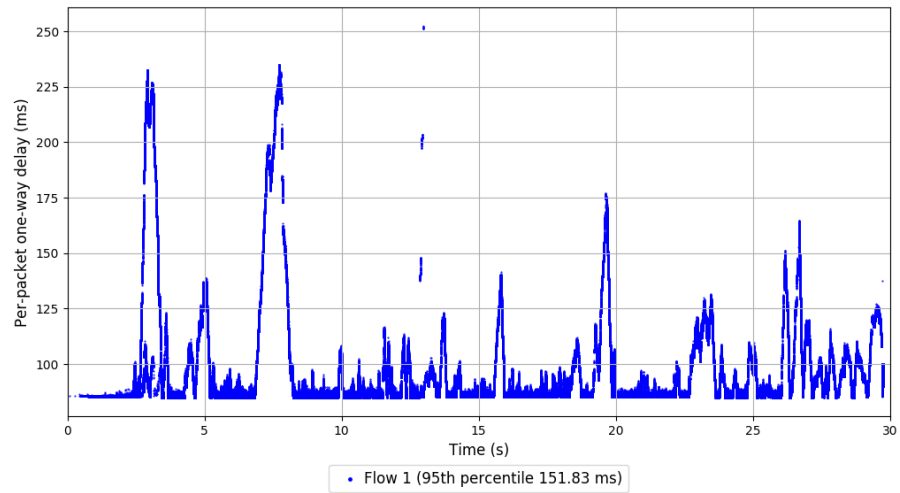
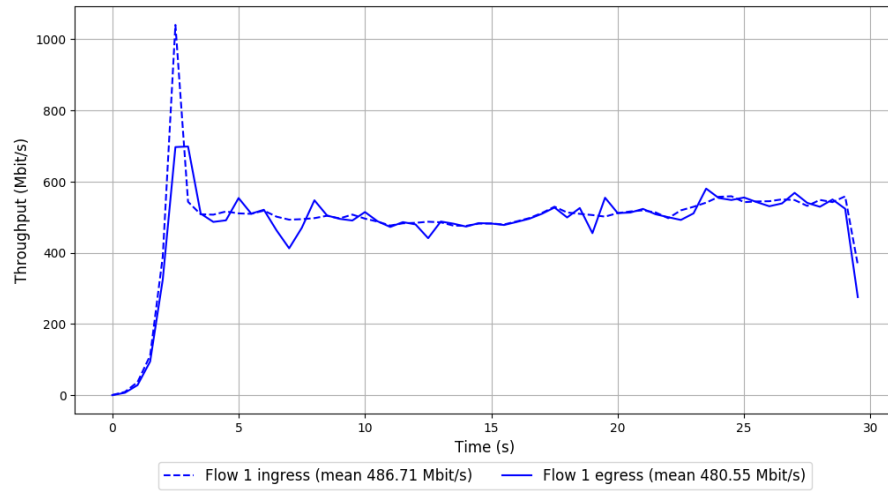
-- Flow 1:

Average throughput: 480.55 Mbit/s

95th percentile per-packet one-way delay: 151.829 ms

Loss rate: 1.93%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-30 11:55:16

End at: 2018-01-30 11:55:46

Below is generated by plot.py at 2018-01-30 16:10:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.11 Mbit/s

95th percentile per-packet one-way delay: 144.048 ms

Loss rate: 1.62%

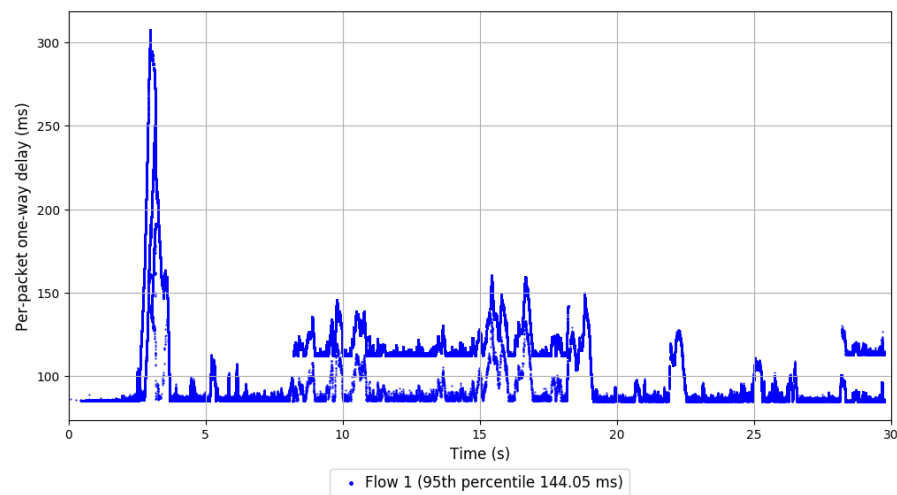
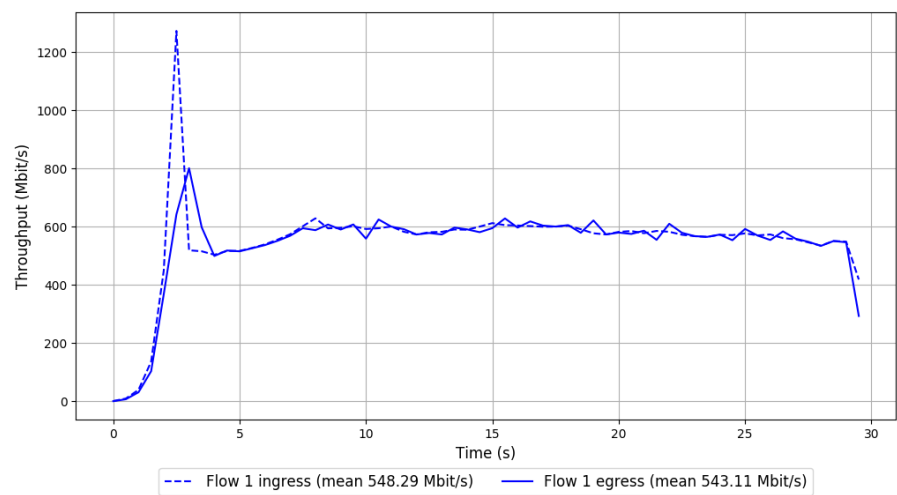
-- Flow 1:

Average throughput: 543.11 Mbit/s

95th percentile per-packet one-way delay: 144.048 ms

Loss rate: 1.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-30 12:10:06

End at: 2018-01-30 12:10:36

Below is generated by plot.py at 2018-01-30 16:10:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.77 Mbit/s

95th percentile per-packet one-way delay: 199.827 ms

Loss rate: 6.37%

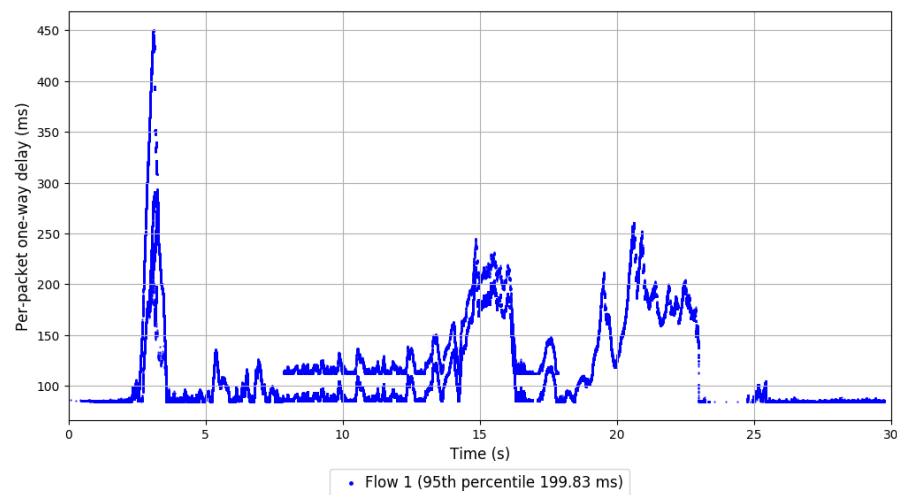
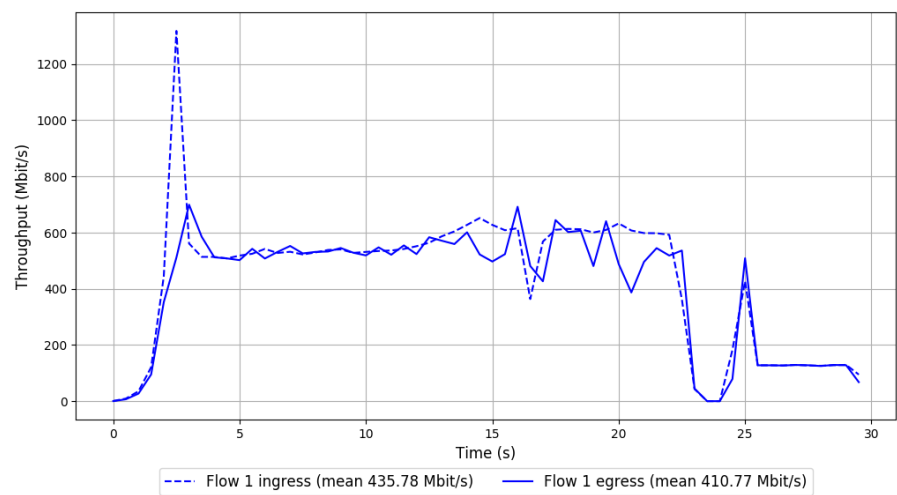
-- Flow 1:

Average throughput: 410.77 Mbit/s

95th percentile per-packet one-way delay: 199.827 ms

Loss rate: 6.37%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-30 12:24:31

End at: 2018-01-30 12:25:01

Below is generated by plot.py at 2018-01-30 16:10:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.36 Mbit/s

95th percentile per-packet one-way delay: 132.350 ms

Loss rate: 2.56%

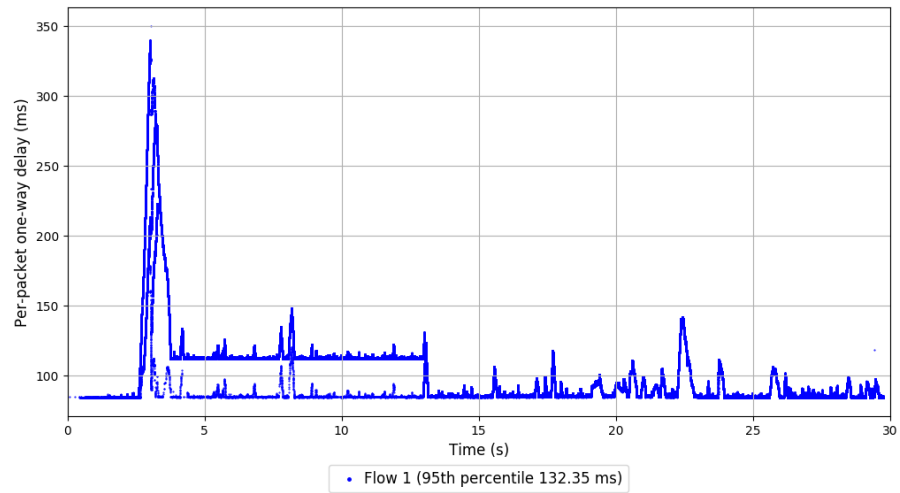
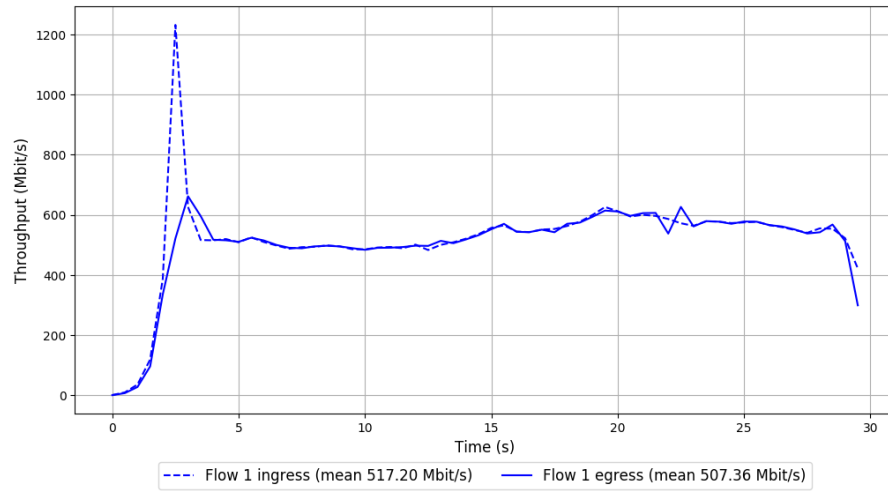
-- Flow 1:

Average throughput: 507.36 Mbit/s

95th percentile per-packet one-way delay: 132.350 ms

Loss rate: 2.56%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-30 12:39:03

End at: 2018-01-30 12:39:34

Below is generated by plot.py at 2018-01-30 16:10:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.94 Mbit/s

95th percentile per-packet one-way delay: 136.916 ms

Loss rate: 2.18%

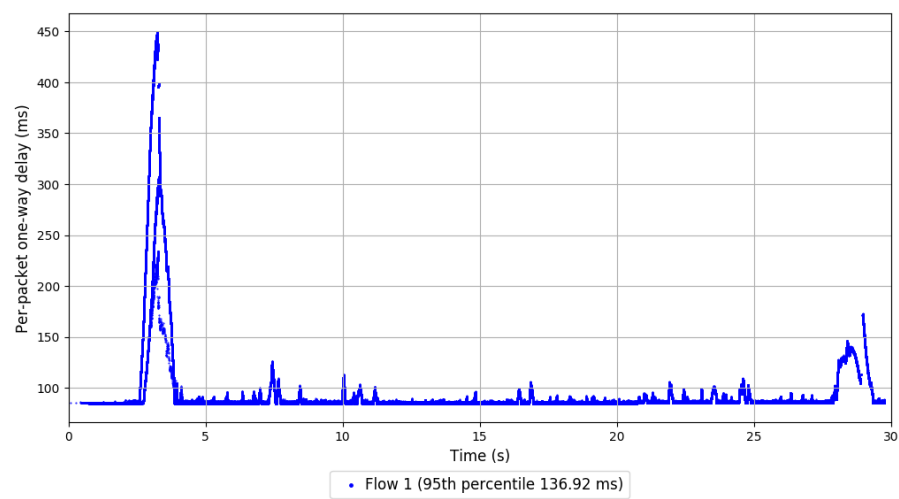
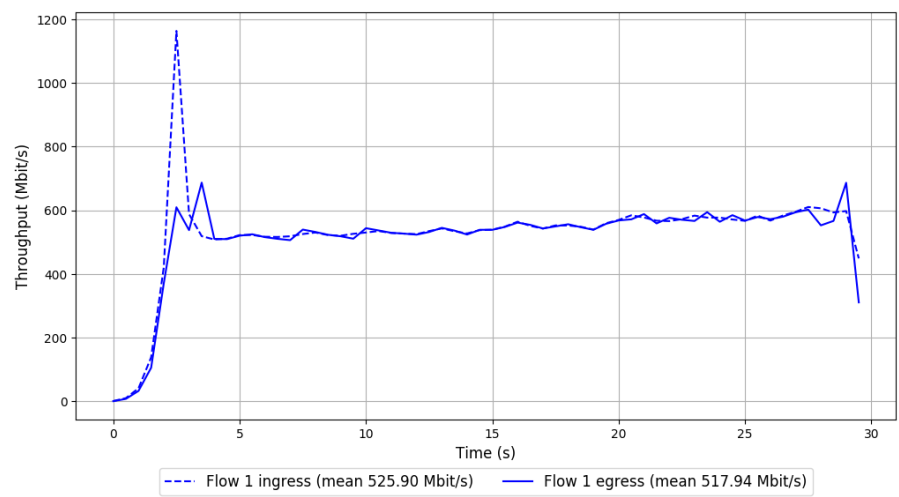
-- Flow 1:

Average throughput: 517.94 Mbit/s

95th percentile per-packet one-way delay: 136.916 ms

Loss rate: 2.18%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-30 12:53:56

End at: 2018-01-30 12:54:26

Below is generated by plot.py at 2018-01-30 16:20:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.35 Mbit/s

95th percentile per-packet one-way delay: 164.453 ms

Loss rate: 2.58%

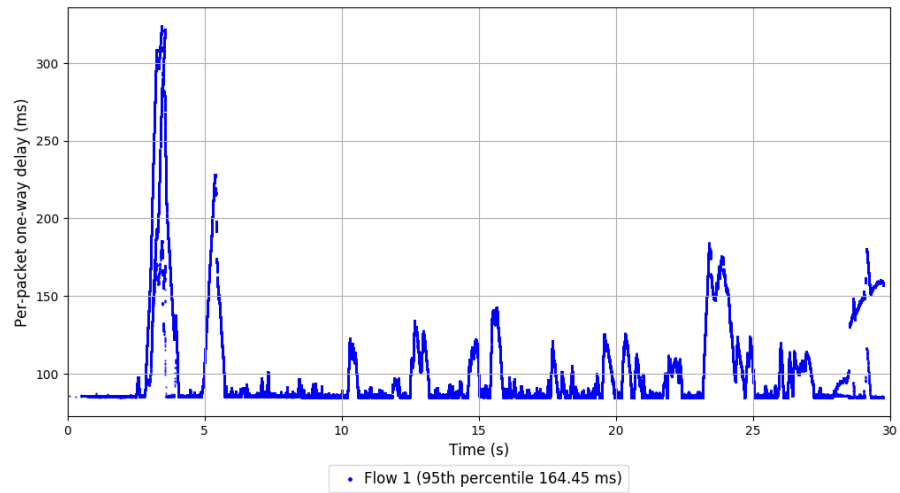
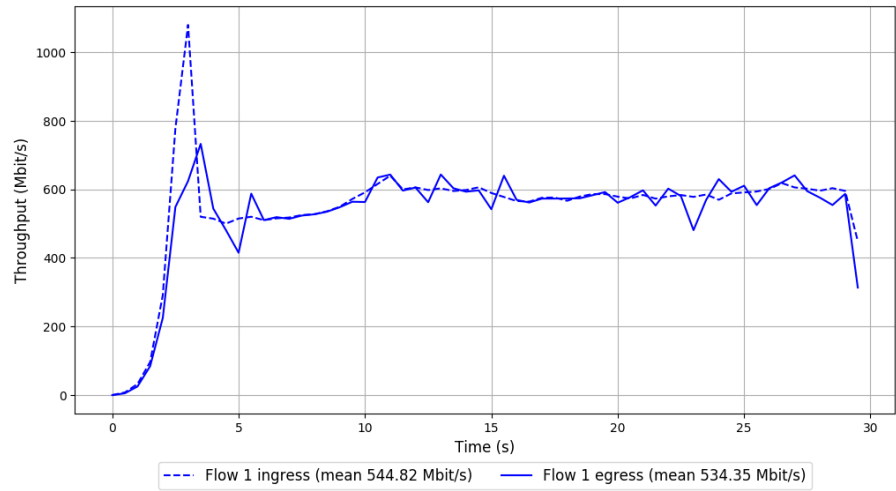
-- Flow 1:

Average throughput: 534.35 Mbit/s

95th percentile per-packet one-way delay: 164.453 ms

Loss rate: 2.58%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-30 13:08:33

End at: 2018-01-30 13:09:03

Below is generated by plot.py at 2018-01-30 16:20:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.07 Mbit/s

95th percentile per-packet one-way delay: 159.447 ms

Loss rate: 1.90%

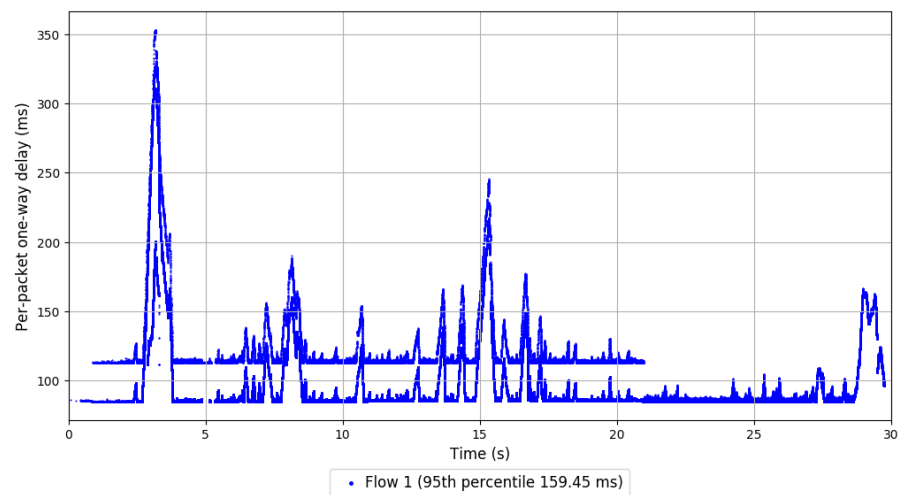
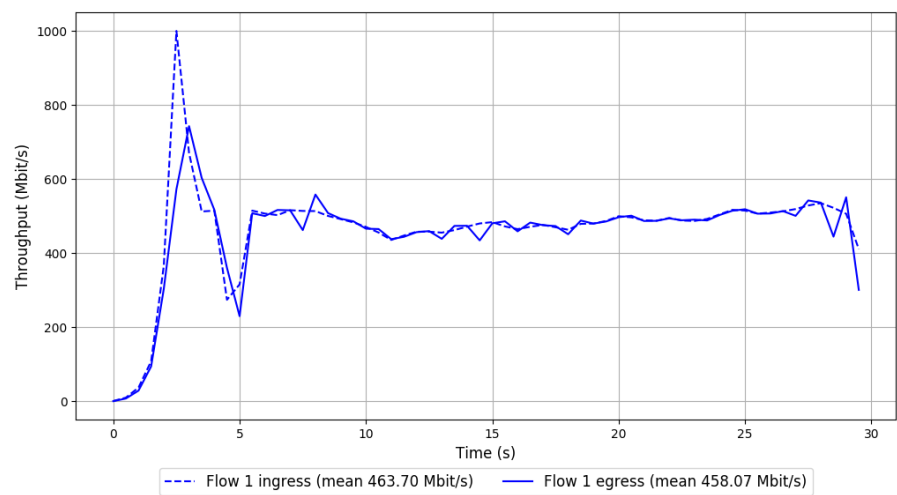
-- Flow 1:

Average throughput: 458.07 Mbit/s

95th percentile per-packet one-way delay: 159.447 ms

Loss rate: 1.90%

Run 10: Report of PCC — Data Link

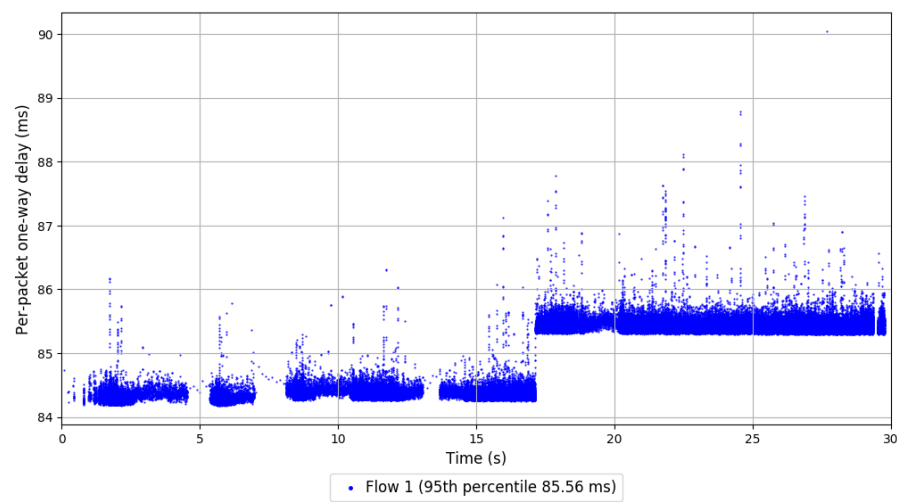
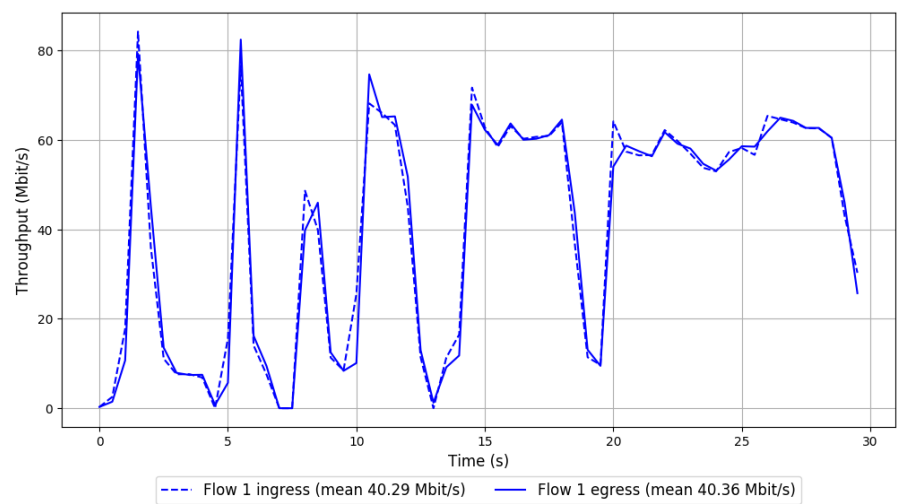


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-30 11:01:27
End at: 2018-01-30 11:01:57

# Below is generated by plot.py at 2018-01-30 16:20:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 85.562 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 85.562 ms
Loss rate: 0.52%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-30 11:15:58

End at: 2018-01-30 11:16:28

Below is generated by plot.py at 2018-01-30 16:20:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.87 Mbit/s

95th percentile per-packet one-way delay: 84.393 ms

Loss rate: 0.86%

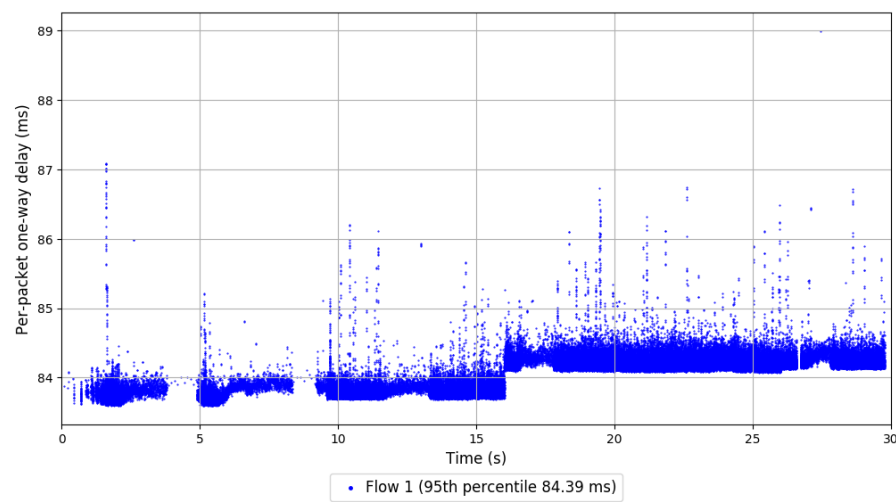
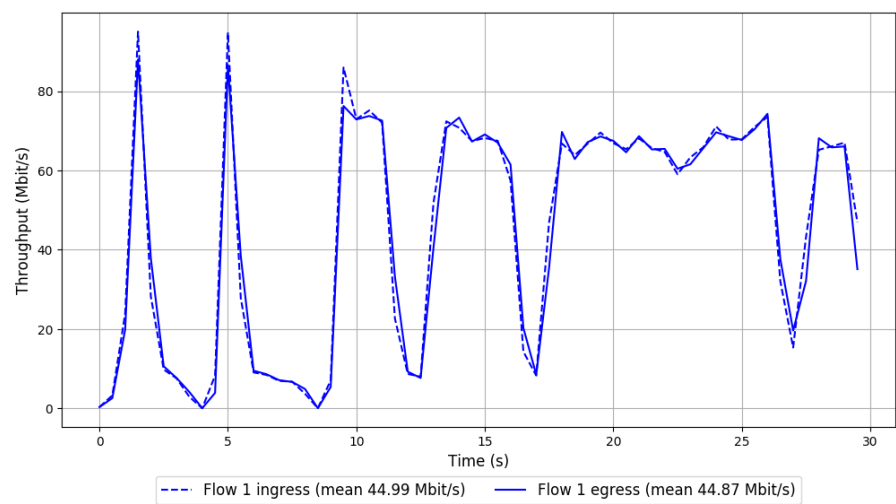
-- Flow 1:

Average throughput: 44.87 Mbit/s

95th percentile per-packet one-way delay: 84.393 ms

Loss rate: 0.86%

Run 2: Report of QUIC Cubic — Data Link

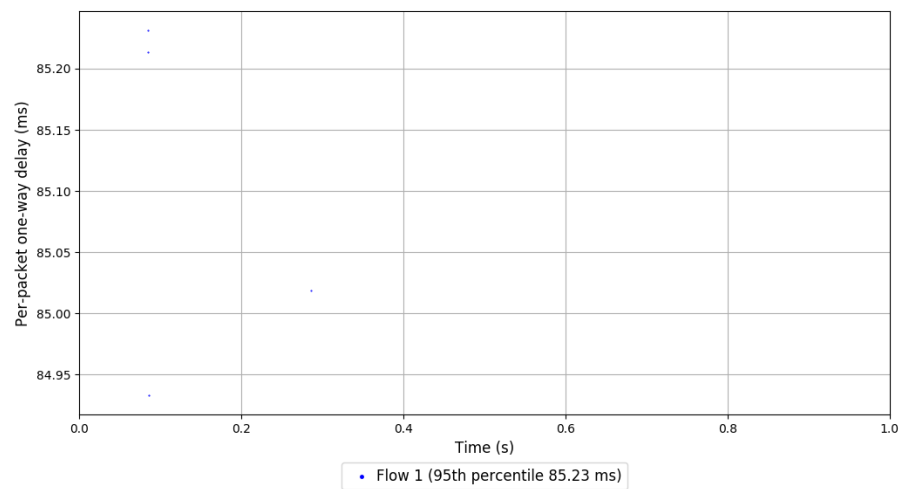
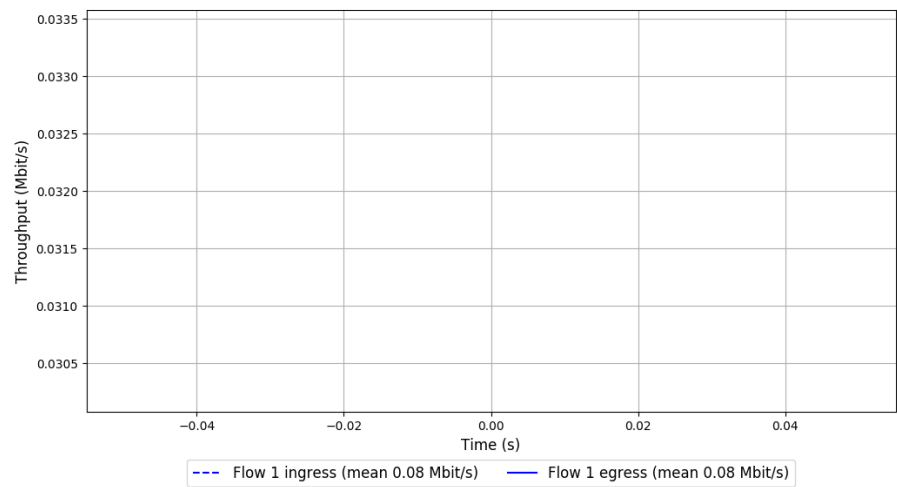


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-30 11:30:41

End at: 2018-01-30 11:31:11

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-30 11:45:26

End at: 2018-01-30 11:45:56

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.76%

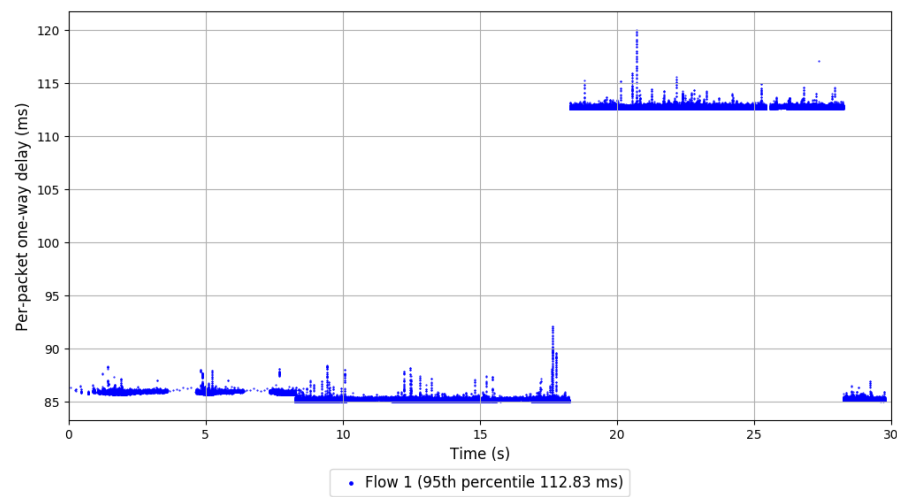
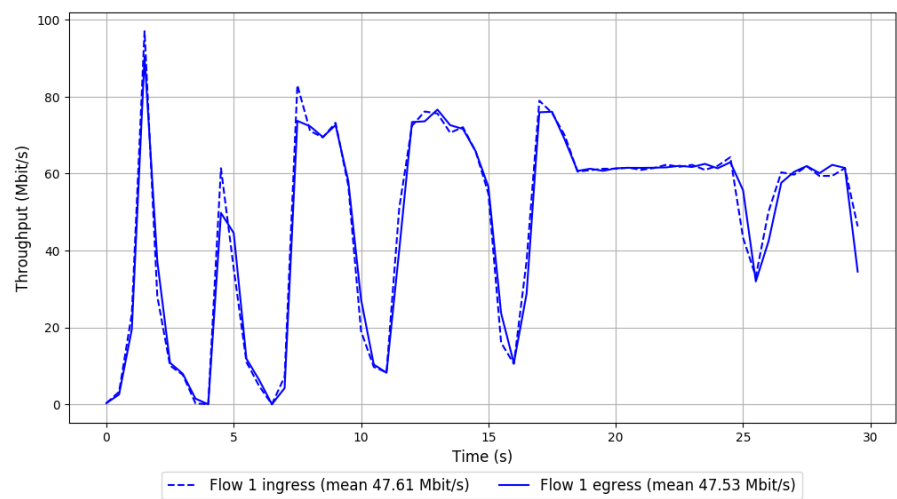
-- Flow 1:

Average throughput: 47.53 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.76%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-30 12:00:21

End at: 2018-01-30 12:00:51

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 113.070 ms

Loss rate: 0.89%

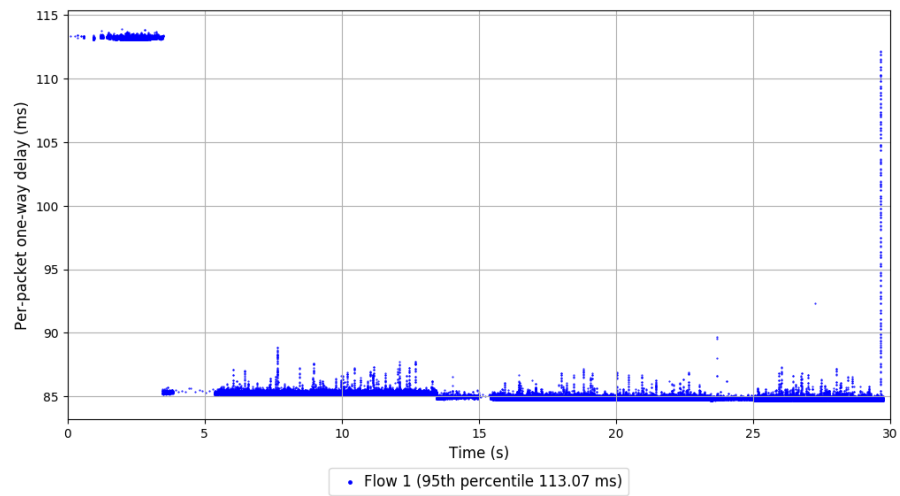
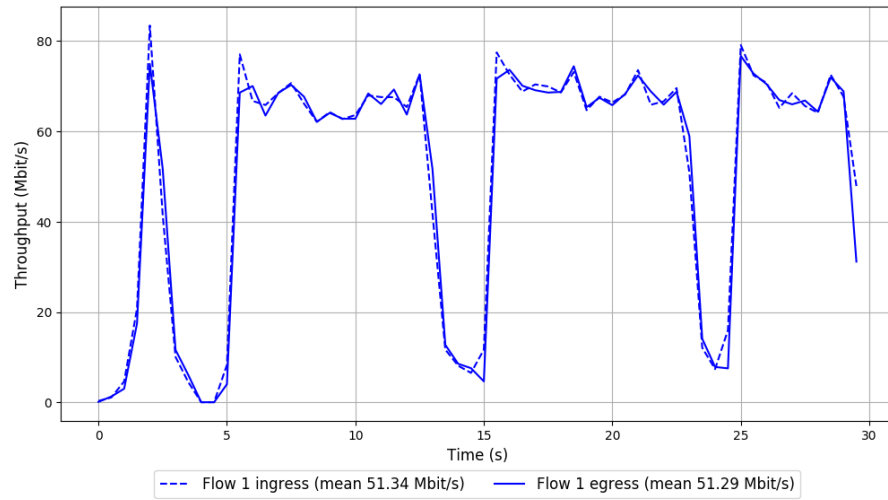
-- Flow 1:

Average throughput: 51.29 Mbit/s

95th percentile per-packet one-way delay: 113.070 ms

Loss rate: 0.89%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-30 12:14:53

End at: 2018-01-30 12:15:23

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 85.152 ms

Loss rate: 0.96%

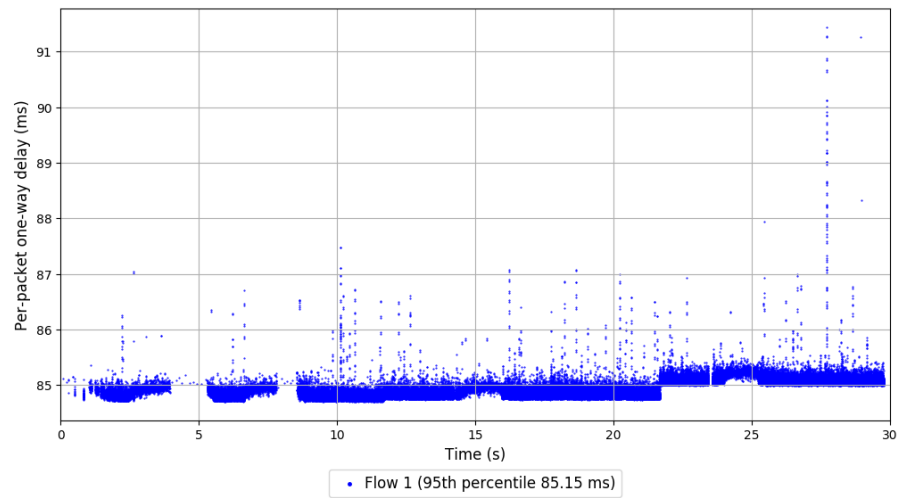
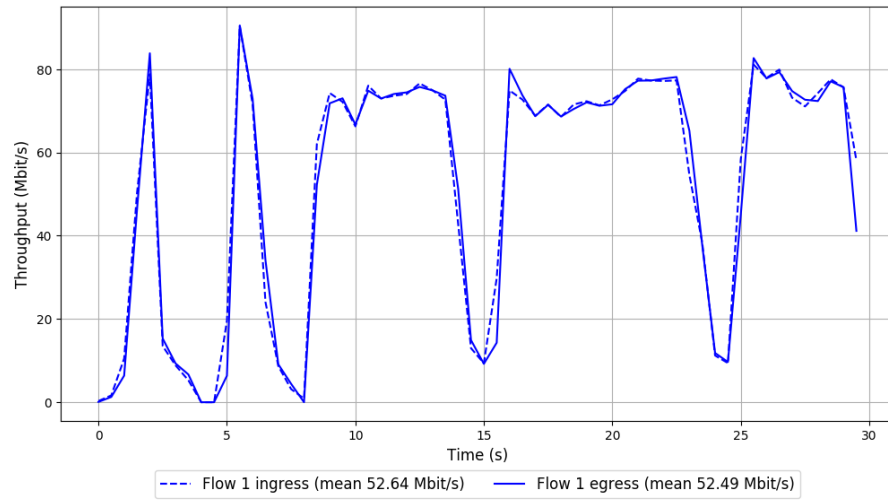
-- Flow 1:

Average throughput: 52.49 Mbit/s

95th percentile per-packet one-way delay: 85.152 ms

Loss rate: 0.96%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-30 12:29:29

End at: 2018-01-30 12:29:59

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 112.078 ms

Loss rate: 1.08%

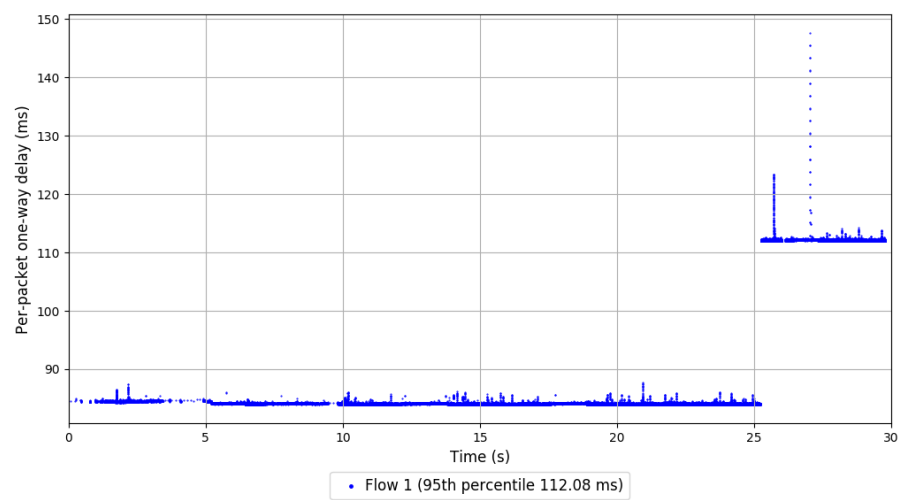
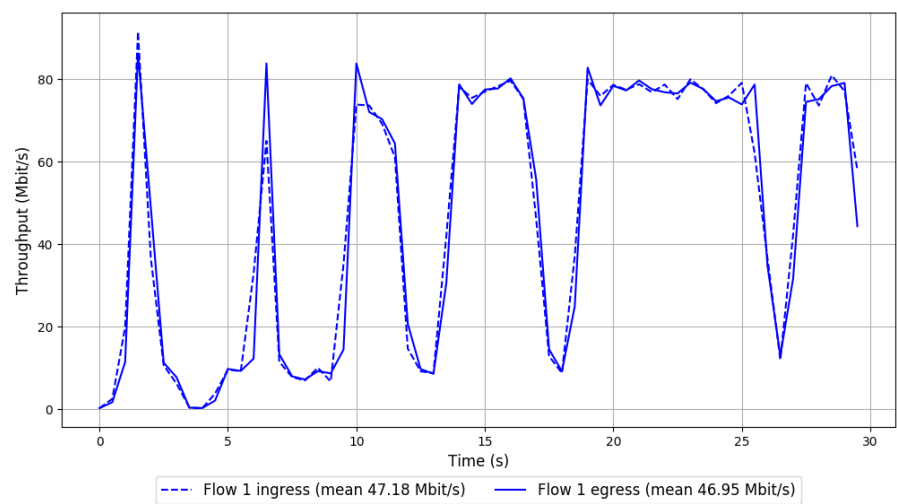
-- Flow 1:

Average throughput: 46.95 Mbit/s

95th percentile per-packet one-way delay: 112.078 ms

Loss rate: 1.08%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-30 12:44:03

End at: 2018-01-30 12:44:33

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 85.622 ms

Loss rate: 0.85%

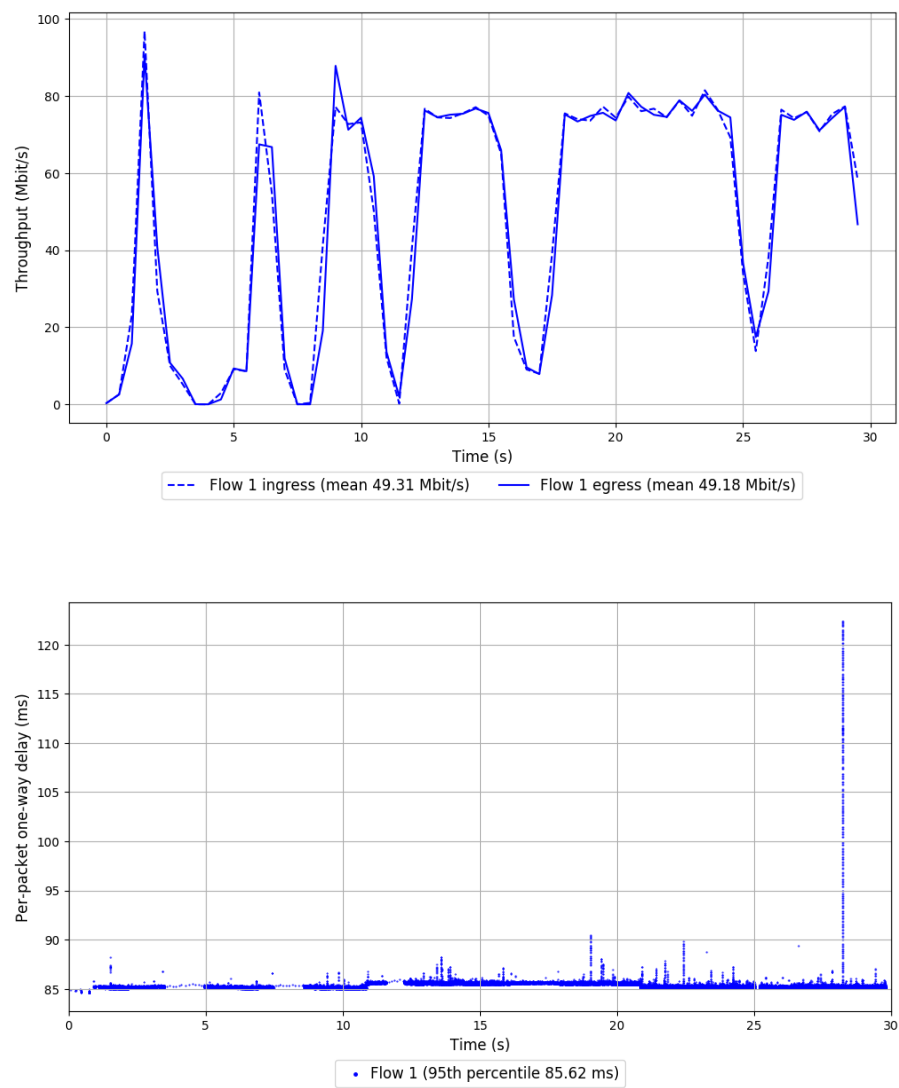
-- Flow 1:

Average throughput: 49.18 Mbit/s

95th percentile per-packet one-way delay: 85.622 ms

Loss rate: 0.85%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-30 12:58:56

End at: 2018-01-30 12:59:26

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 112.904 ms

Loss rate: 0.94%

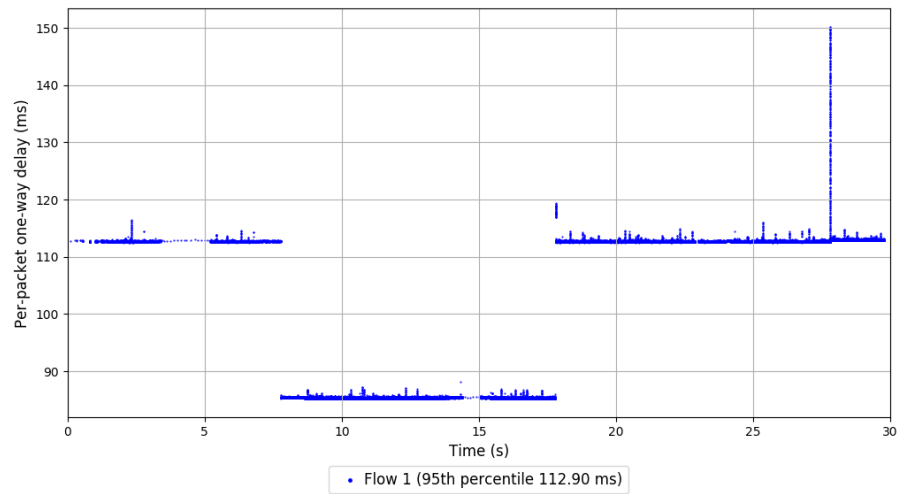
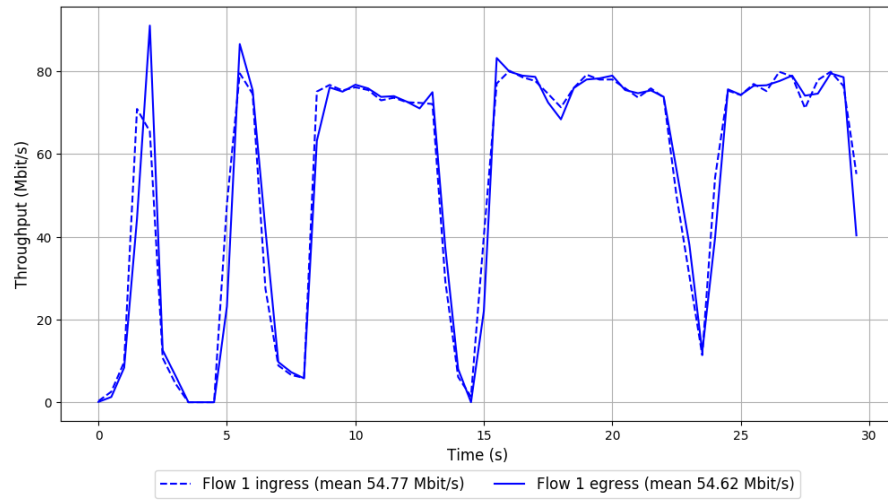
-- Flow 1:

Average throughput: 54.62 Mbit/s

95th percentile per-packet one-way delay: 112.904 ms

Loss rate: 0.94%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

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

End at: 2018-01-30 13:13:56

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 85.541 ms

Loss rate: 0.89%

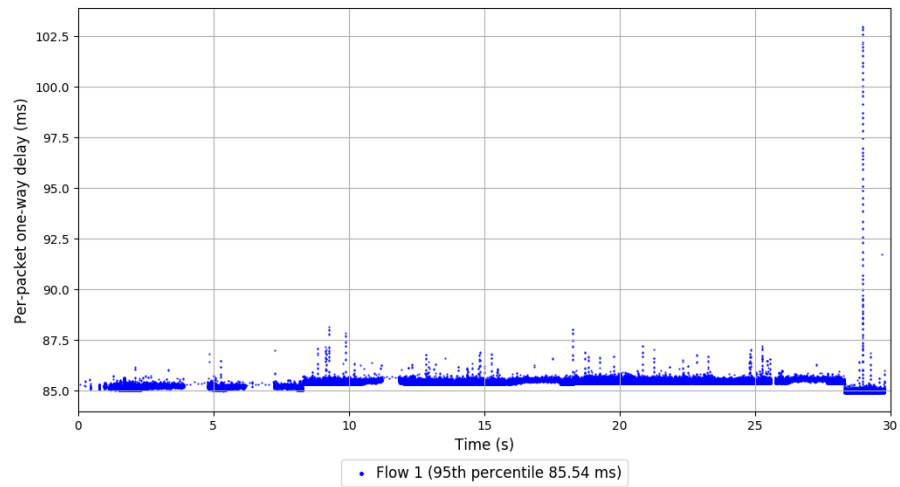
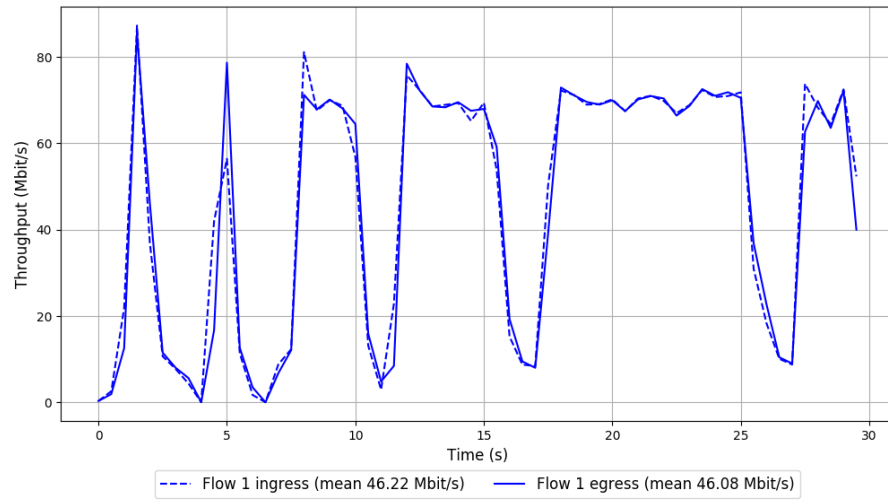
-- Flow 1:

Average throughput: 46.08 Mbit/s

95th percentile per-packet one-way delay: 85.541 ms

Loss rate: 0.89%

Run 10: Report of QUIC Cubic — Data Link

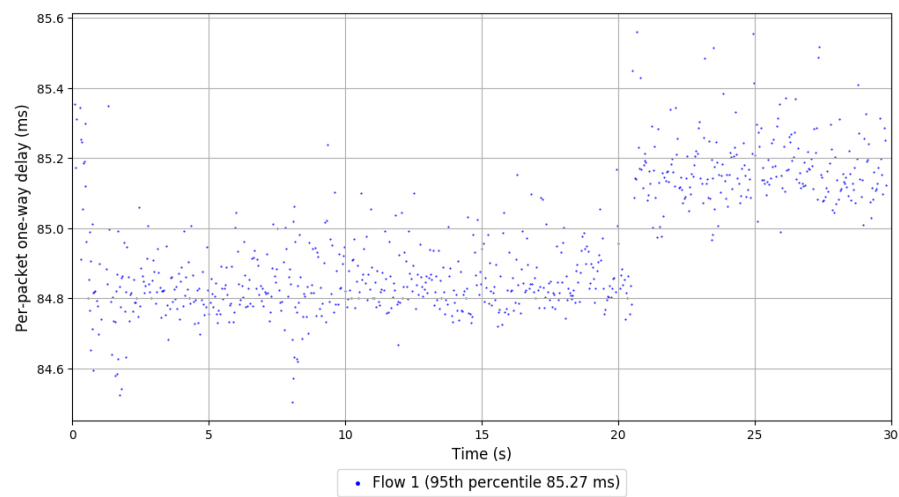
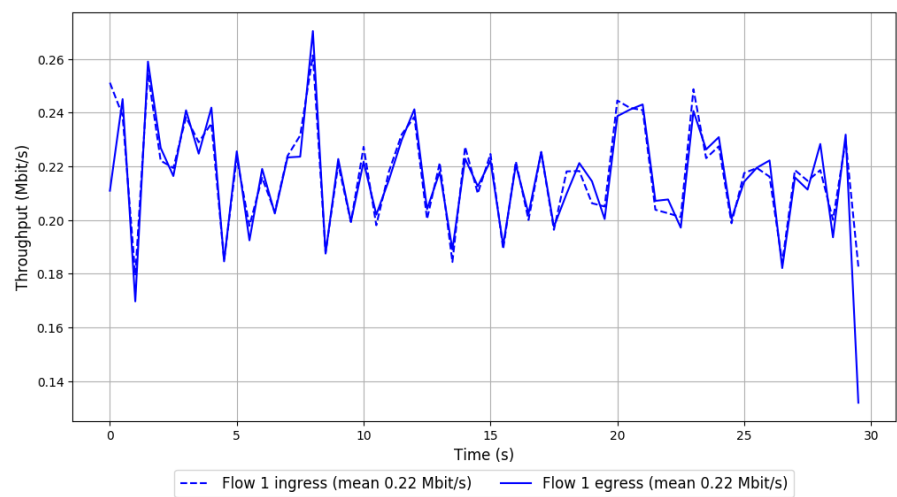


```
Run 1: Statistics of SCReAM

Start at: 2018-01-30 10:59:14
End at: 2018-01-30 10:59:44

# Below is generated by plot.py at 2018-01-30 16:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.273 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.273 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

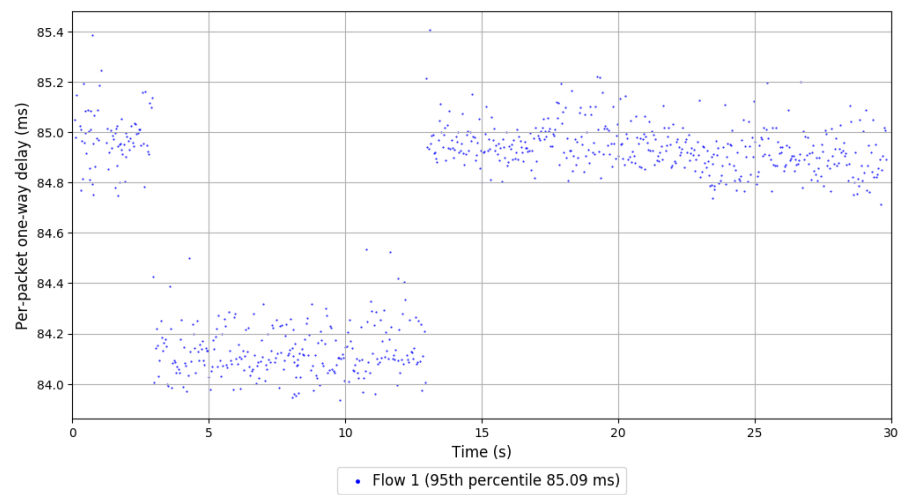
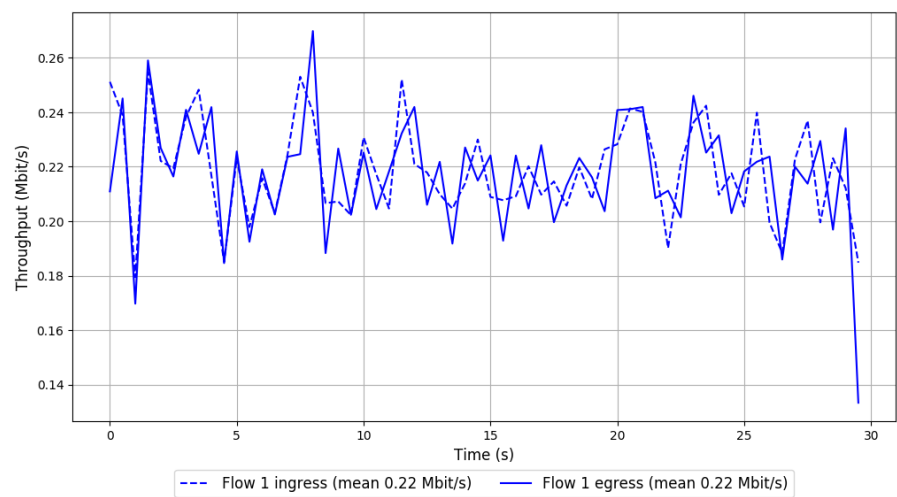


```
Run 2: Statistics of SCReAM

Start at: 2018-01-30 11:13:41
End at: 2018-01-30 11:14:11

# Below is generated by plot.py at 2018-01-30 16:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.086 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.086 ms
Loss rate: 0.64%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-30 11:28:28

End at: 2018-01-30 11:28:58

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.624 ms

Loss rate: 0.64%

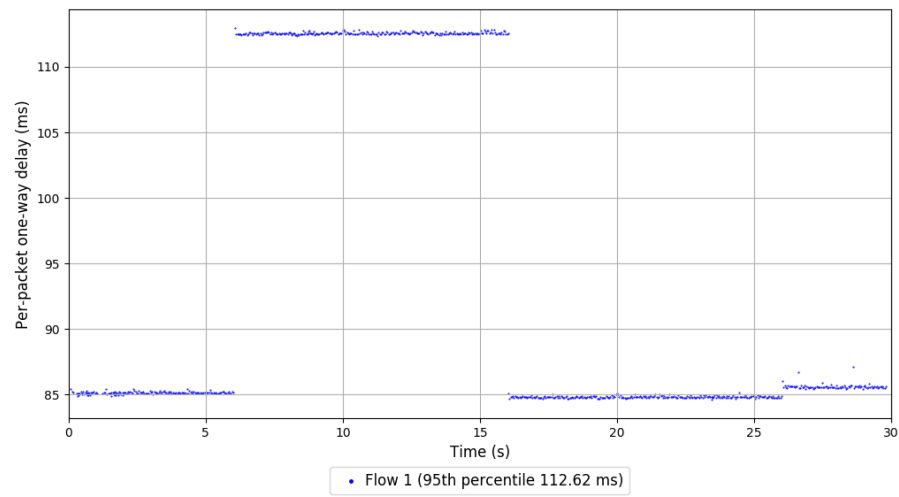
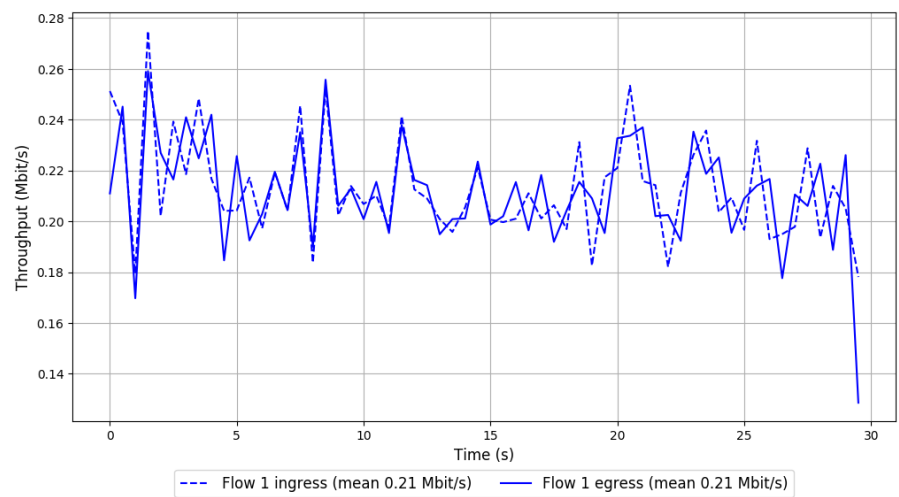
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.624 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-30 11:43:12

End at: 2018-01-30 11:43:42

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 113.046 ms

Loss rate: 0.61%

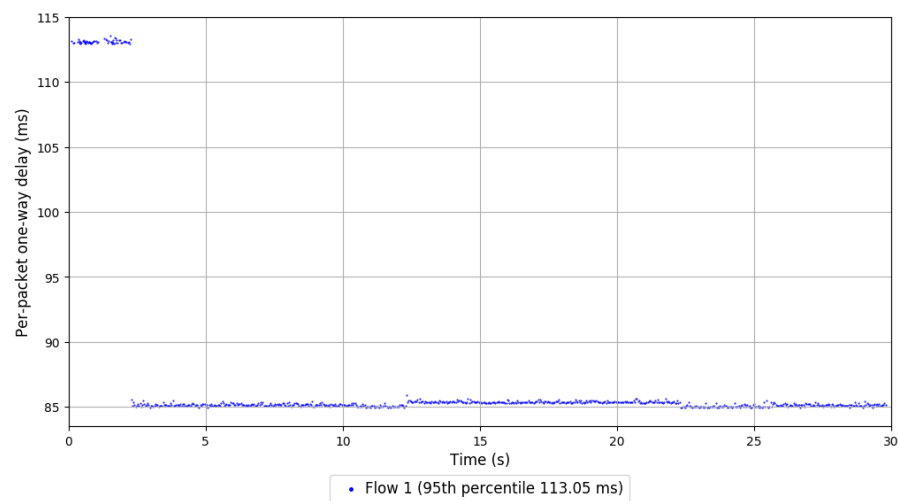
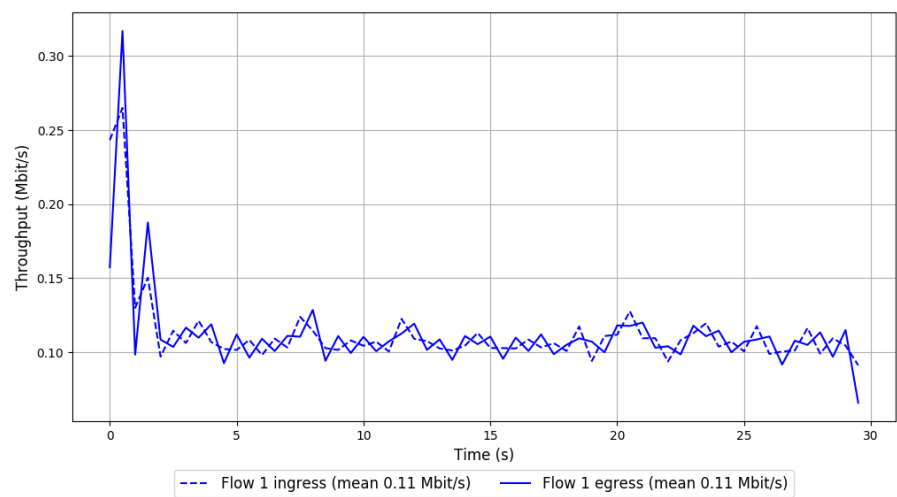
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 113.046 ms

Loss rate: 0.61%

Run 4: Report of SReAM — Data Link

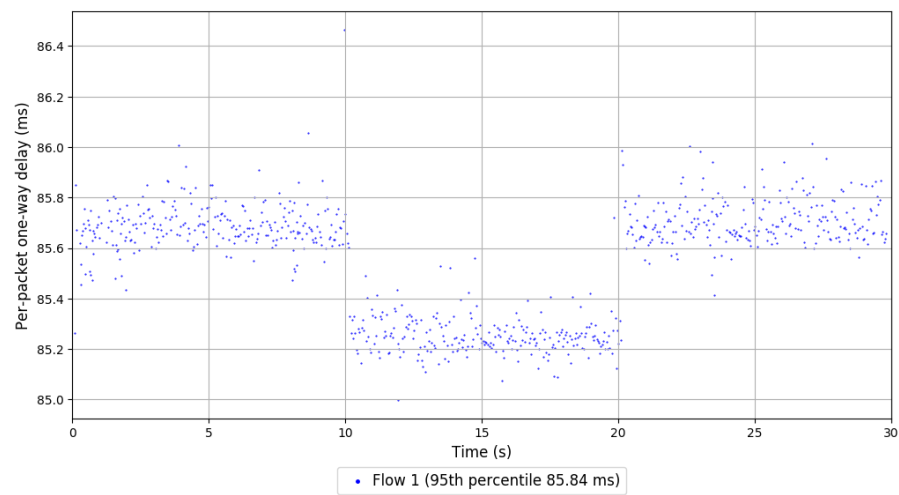
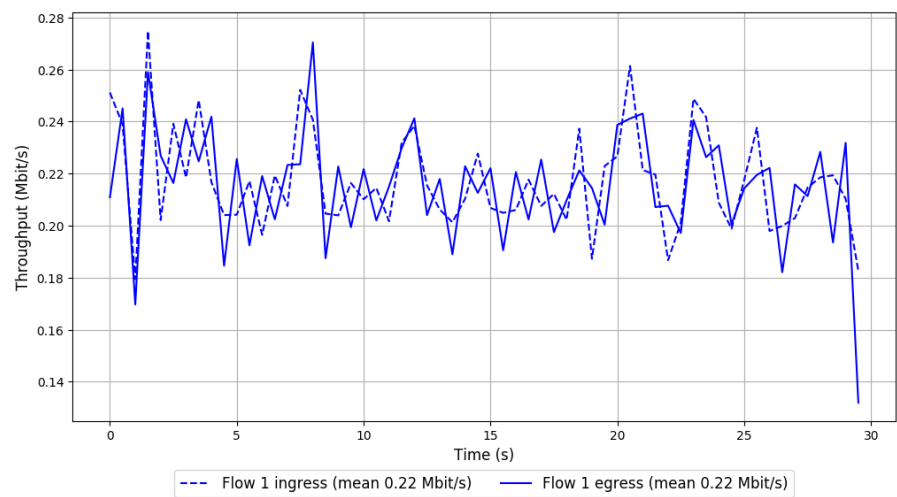


```
Run 5: Statistics of SCReAM

Start at: 2018-01-30 11:58:04
End at: 2018-01-30 11:58:34

# Below is generated by plot.py at 2018-01-30 16:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.837 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.837 ms
Loss rate: 0.64%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-30 12:12:40

End at: 2018-01-30 12:13:10

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 112.512 ms

Loss rate: 0.59%

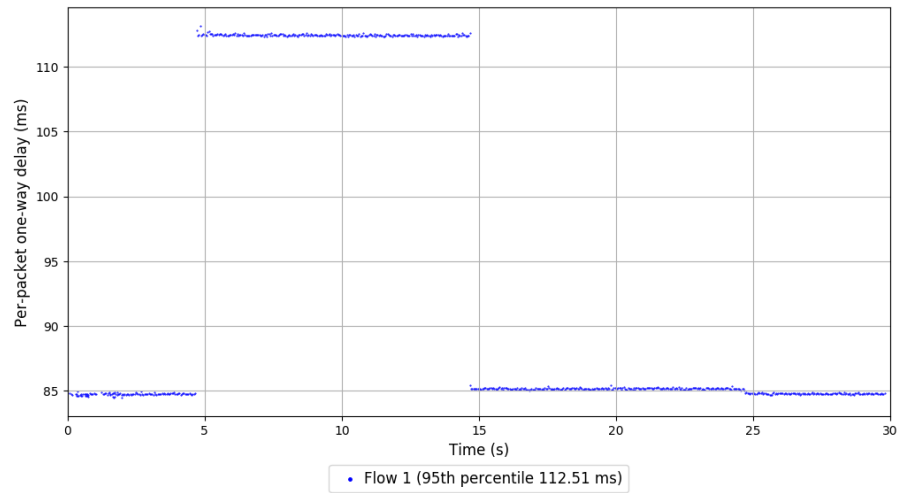
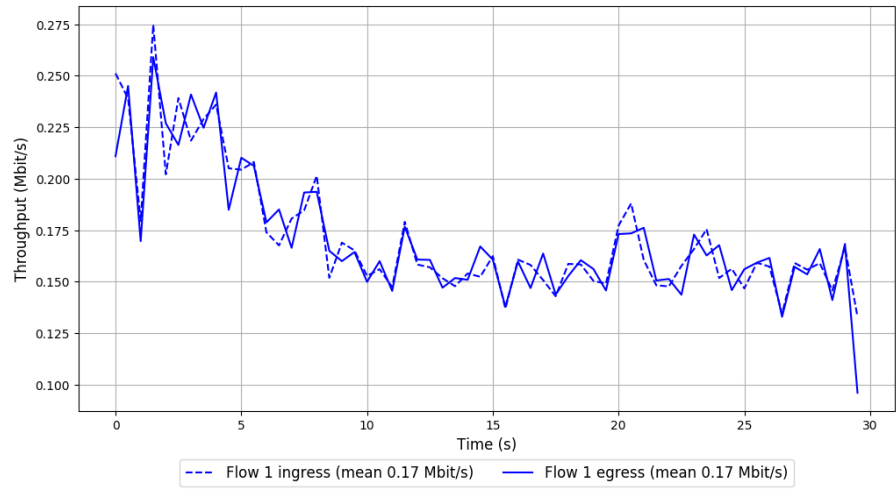
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 112.512 ms

Loss rate: 0.59%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-30 12:27:14

End at: 2018-01-30 12:27:44

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.908 ms

Loss rate: 0.52%

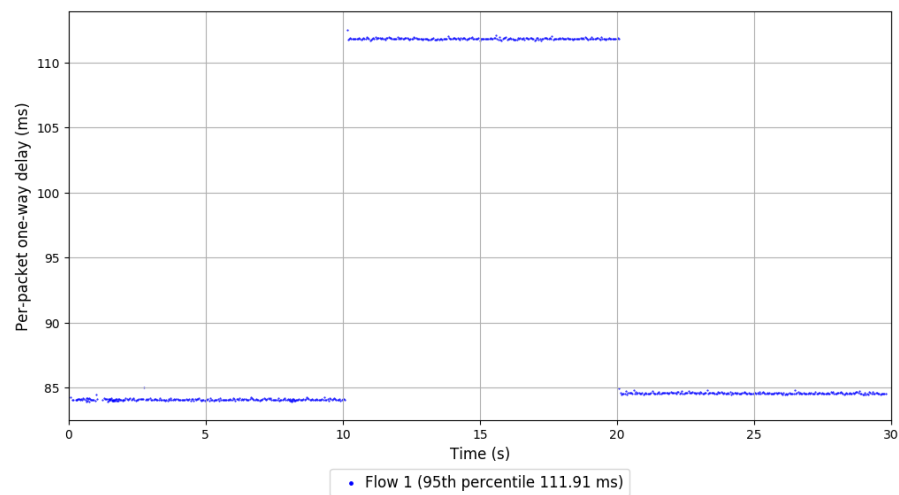
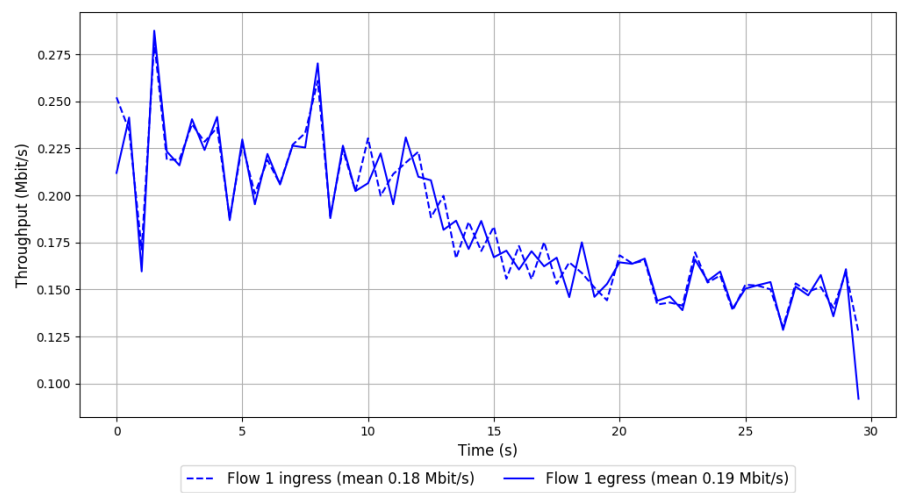
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.908 ms

Loss rate: 0.52%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-30 12:41:50

End at: 2018-01-30 12:42:20

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.659 ms

Loss rate: 0.64%

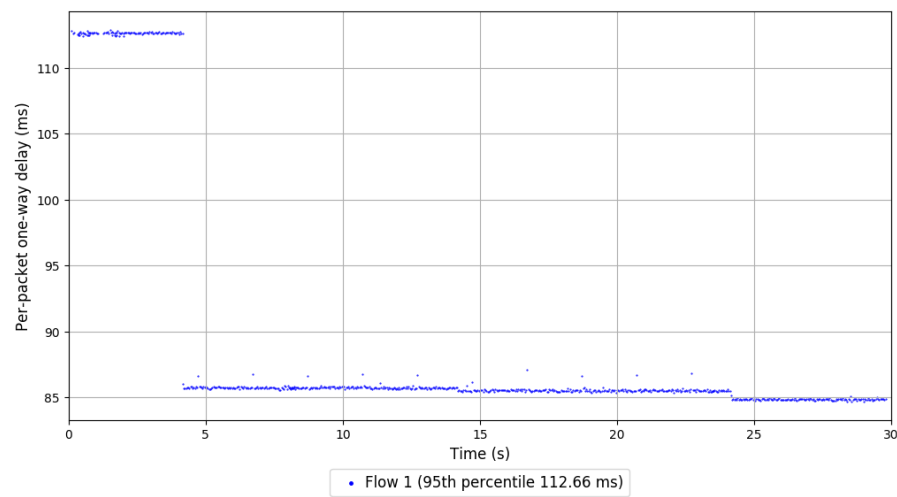
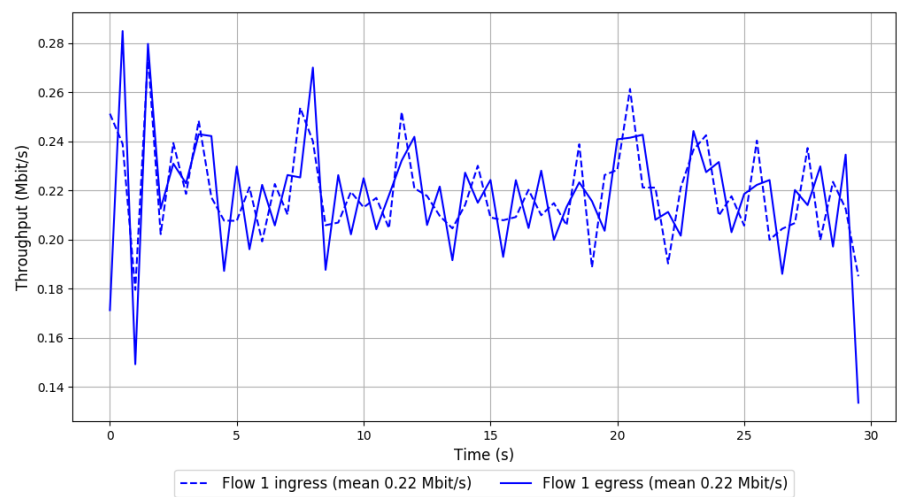
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.659 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-30 12:56:43

End at: 2018-01-30 12:57:13

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.864 ms

Loss rate: 0.64%

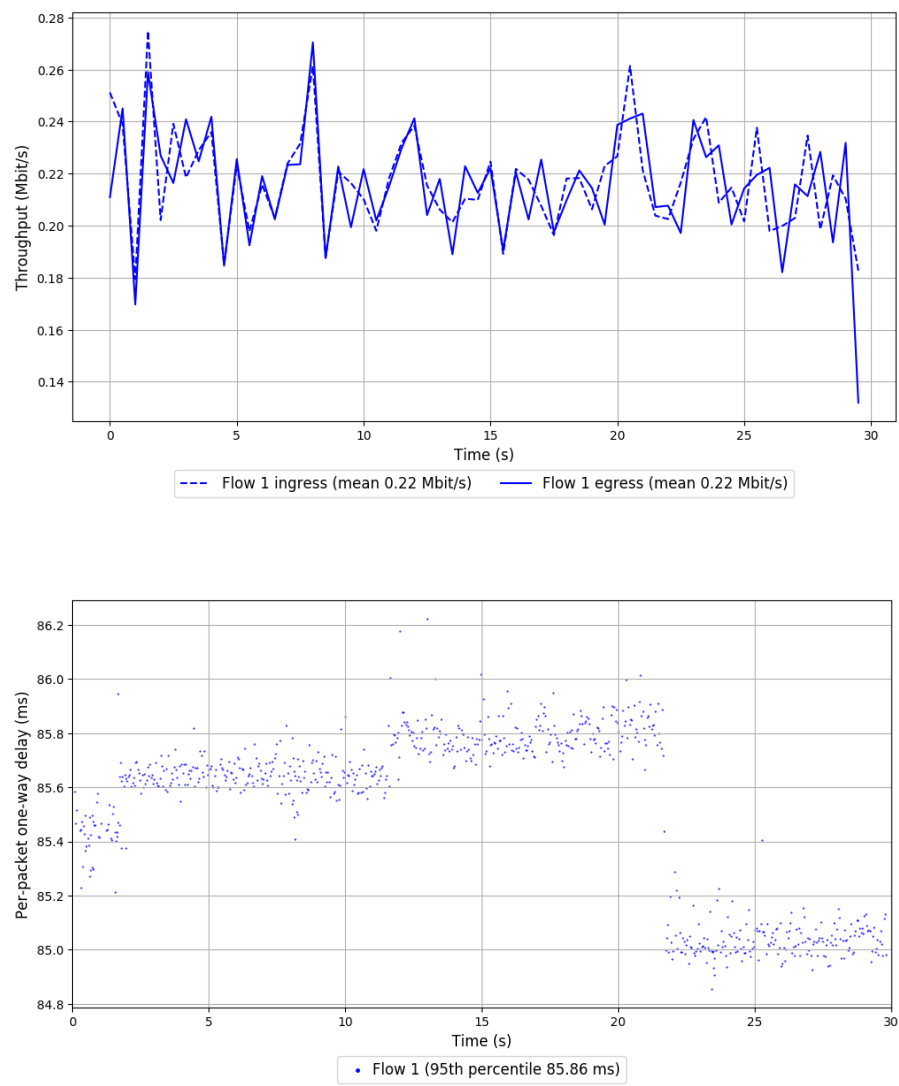
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.864 ms

Loss rate: 0.64%

Run 9: Report of SCRaM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-30 13:11:11

End at: 2018-01-30 13:11:41

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.775 ms

Loss rate: 0.64%

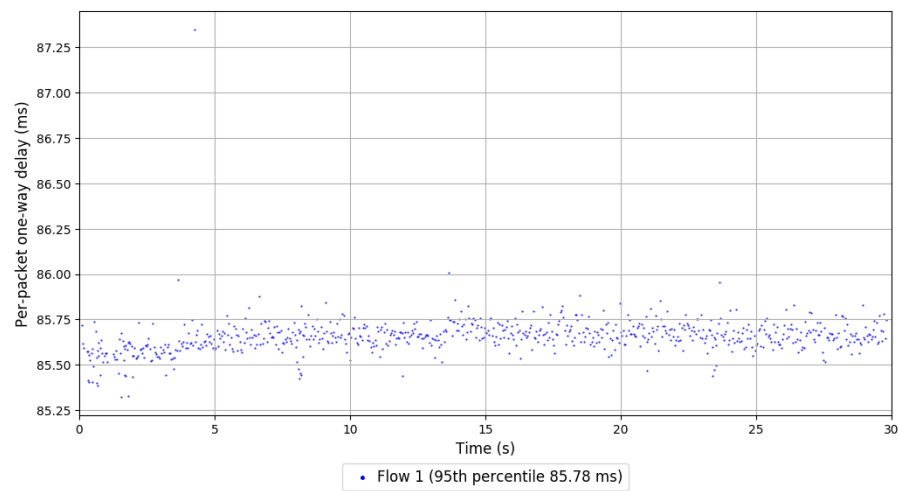
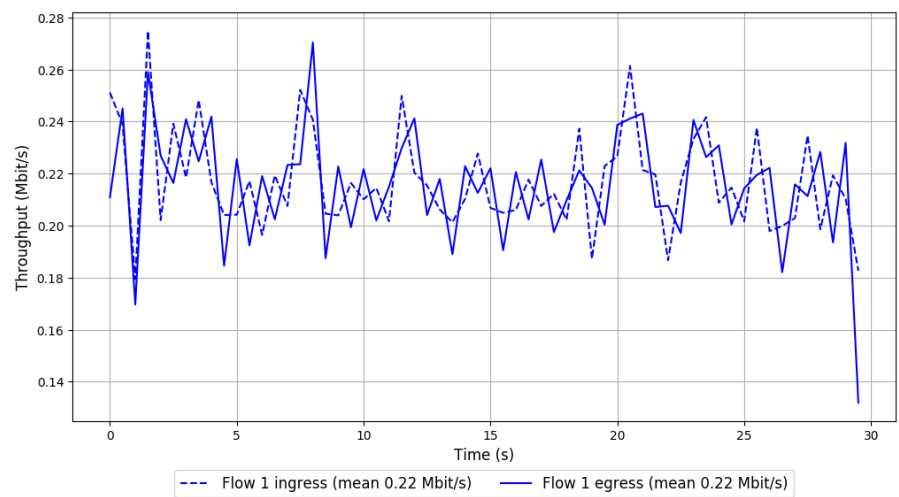
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.775 ms

Loss rate: 0.64%

Run 10: Report of SReAM — Data Link

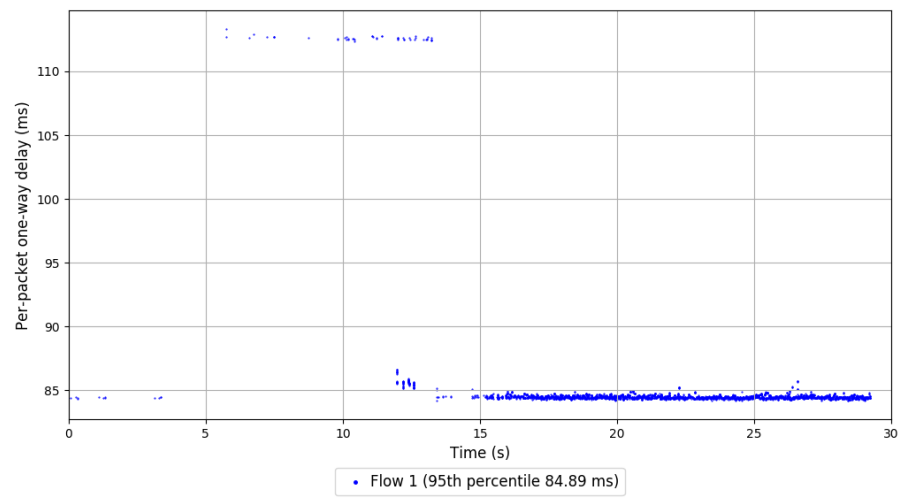
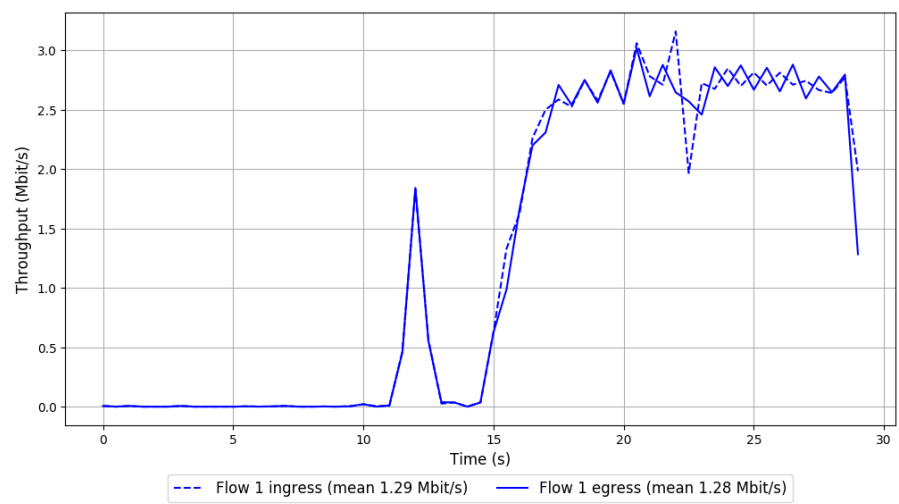


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-30 11:02:10
End at: 2018-01-30 11:02:40

# Below is generated by plot.py at 2018-01-30 16:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 84.886 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 84.886 ms
Loss rate: 1.49%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-30 11:16:41

End at: 2018-01-30 11:17:12

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 84.649 ms

Loss rate: 0.76%

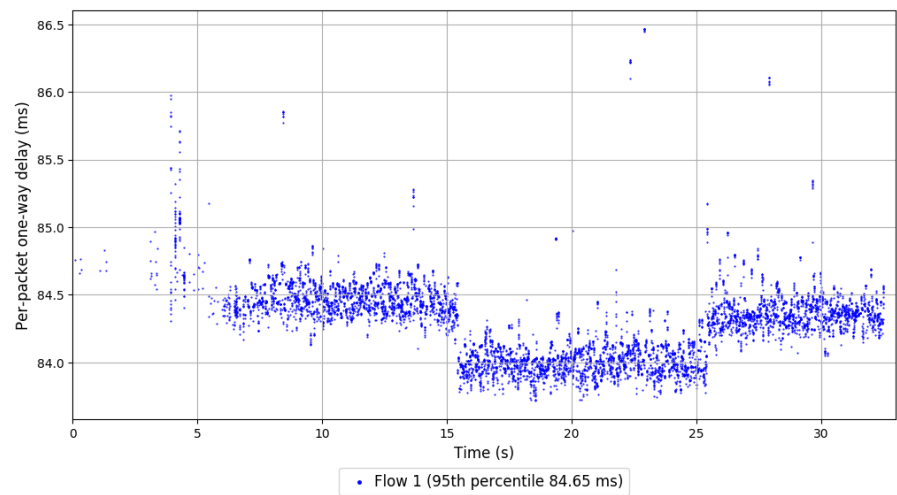
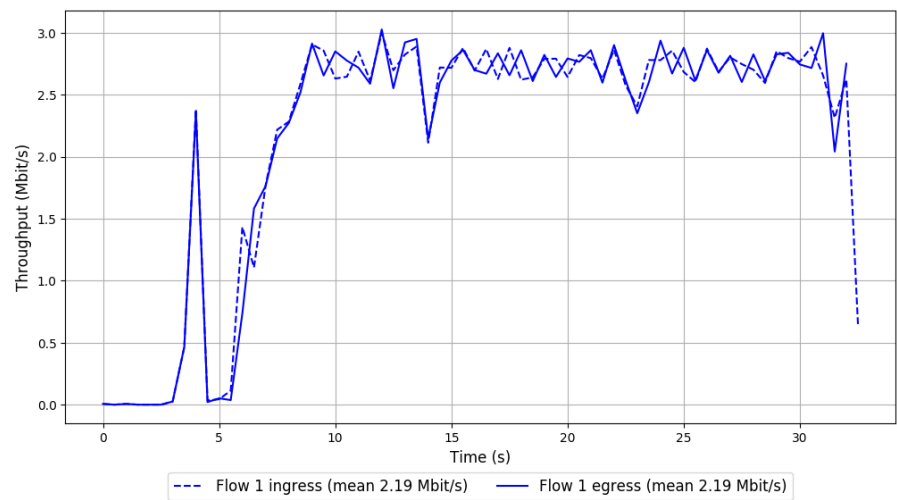
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 84.649 ms

Loss rate: 0.76%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-30 11:31:21

End at: 2018-01-30 11:31:51

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 85.317 ms

Loss rate: 0.78%

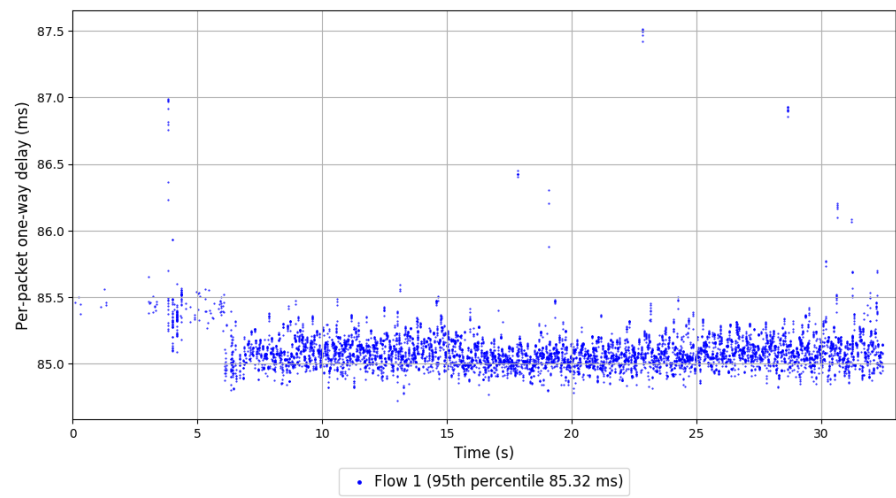
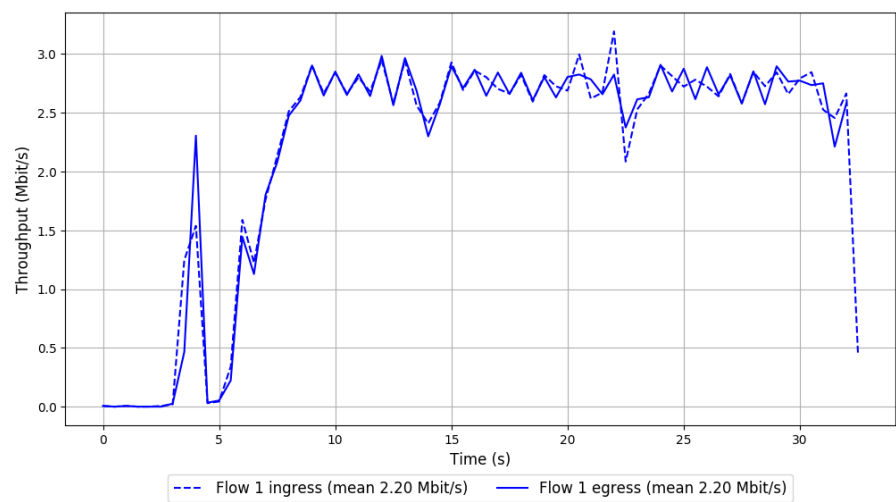
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 85.317 ms

Loss rate: 0.78%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-30 11:46:10

End at: 2018-01-30 11:46:40

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 86.041 ms

Loss rate: 0.76%

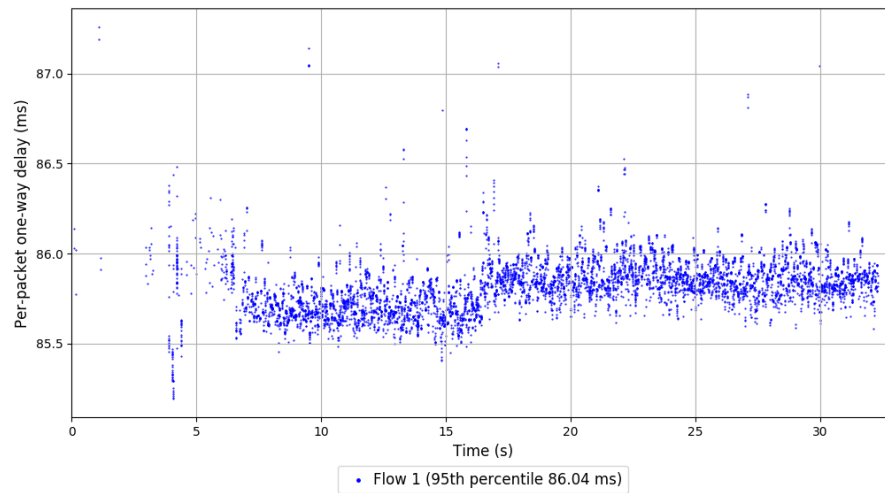
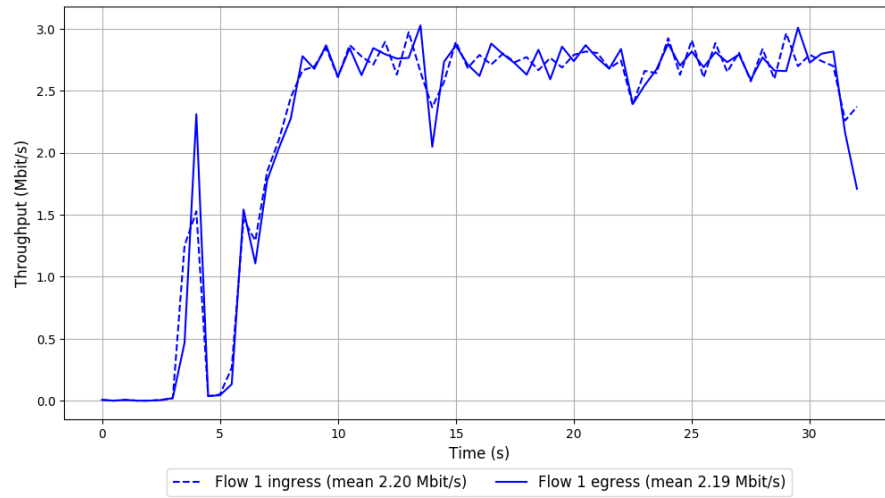
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 86.041 ms

Loss rate: 0.76%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-30 12:01:05

End at: 2018-01-30 12:01:35

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 85.675 ms

Loss rate: 0.79%

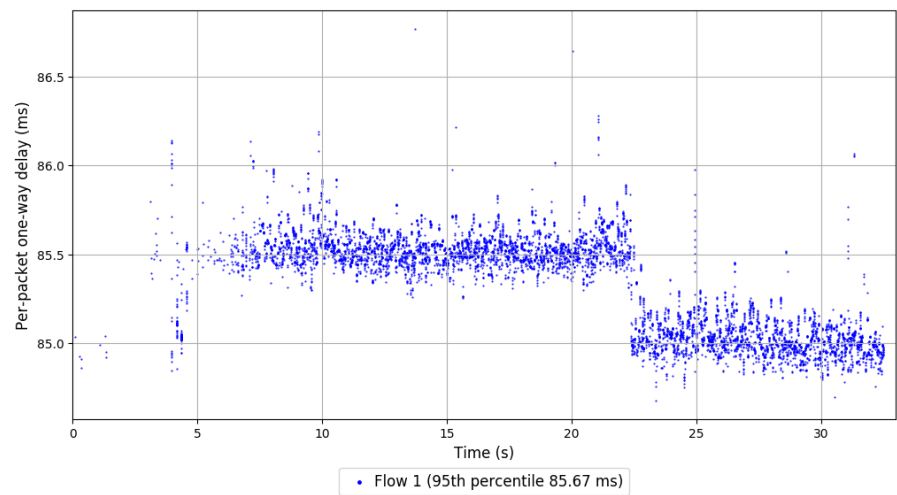
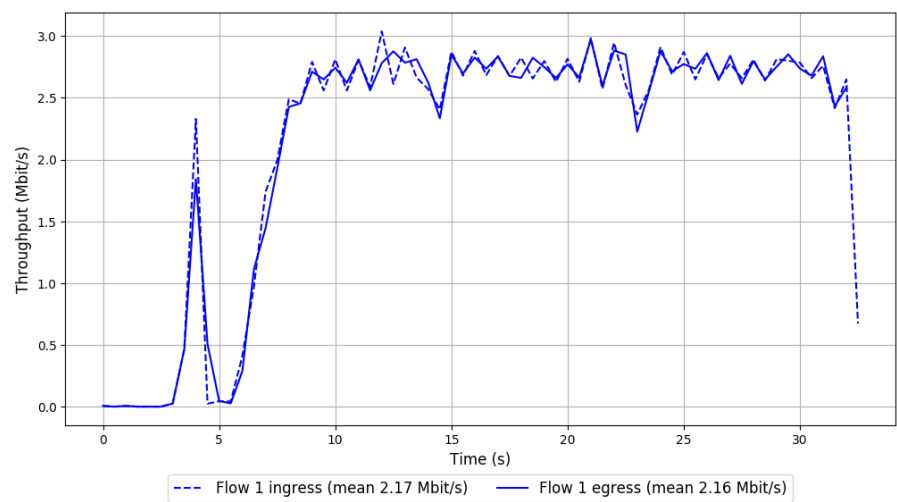
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 85.675 ms

Loss rate: 0.79%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-30 12:15:36

End at: 2018-01-30 12:16:06

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 85.602 ms

Loss rate: 0.77%

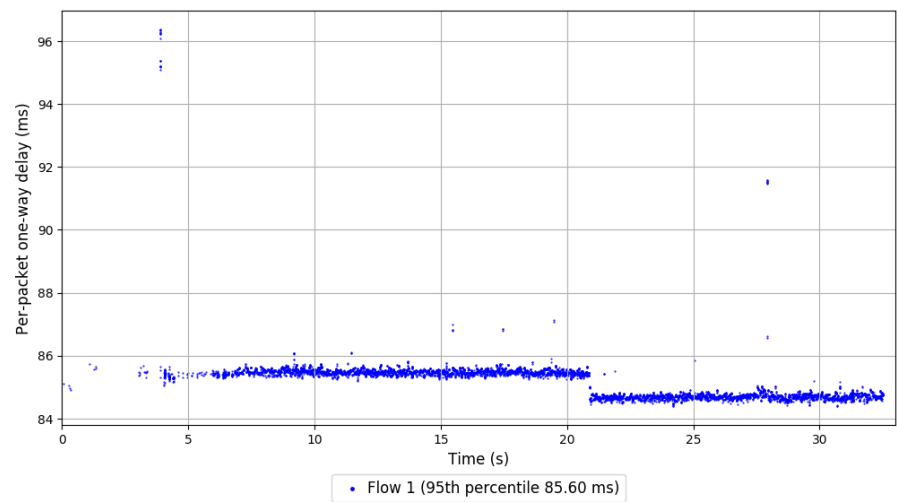
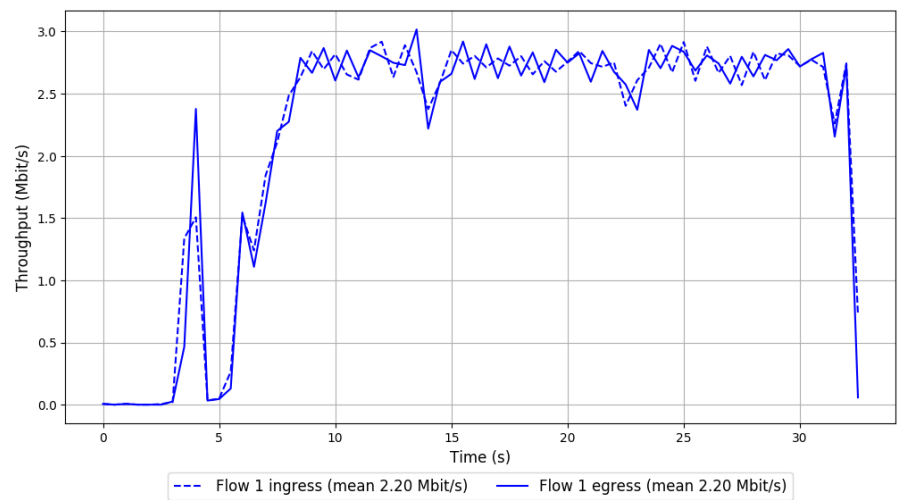
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 85.602 ms

Loss rate: 0.77%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-30 12:30:12

End at: 2018-01-30 12:30:42

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 85.096 ms

Loss rate: 0.94%

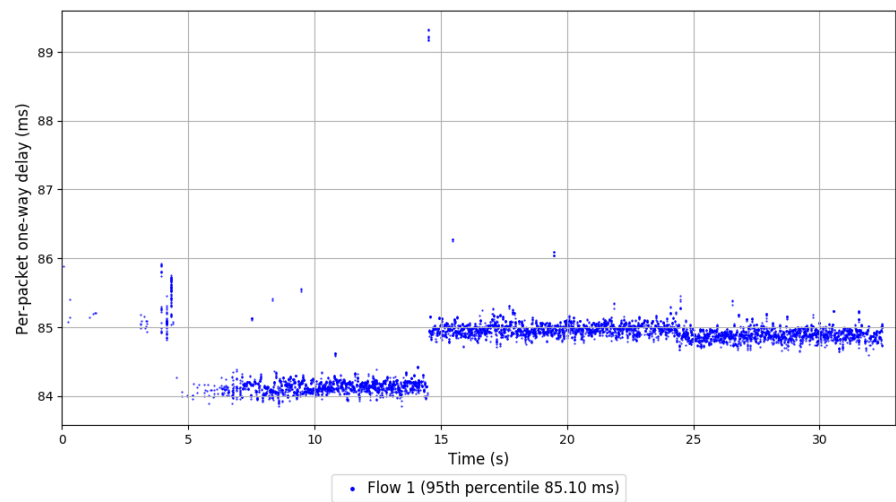
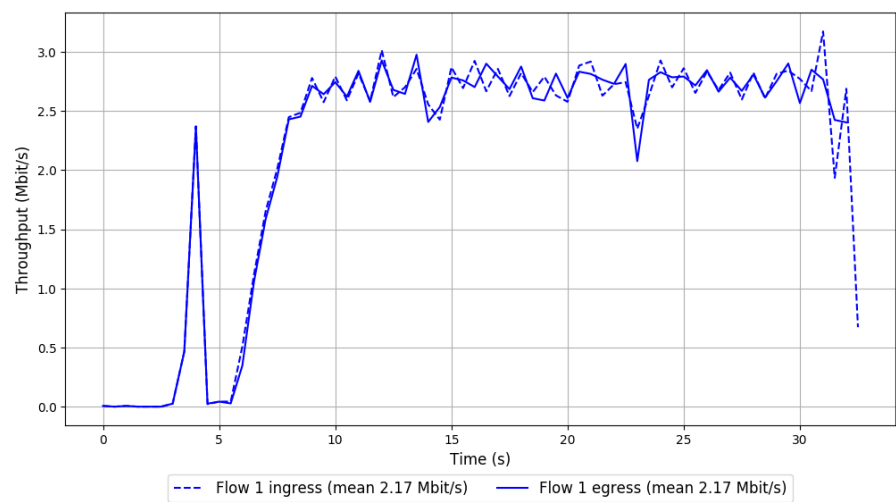
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 85.096 ms

Loss rate: 0.94%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-30 12:44:47

End at: 2018-01-30 12:45:17

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 85.867 ms

Loss rate: 0.77%

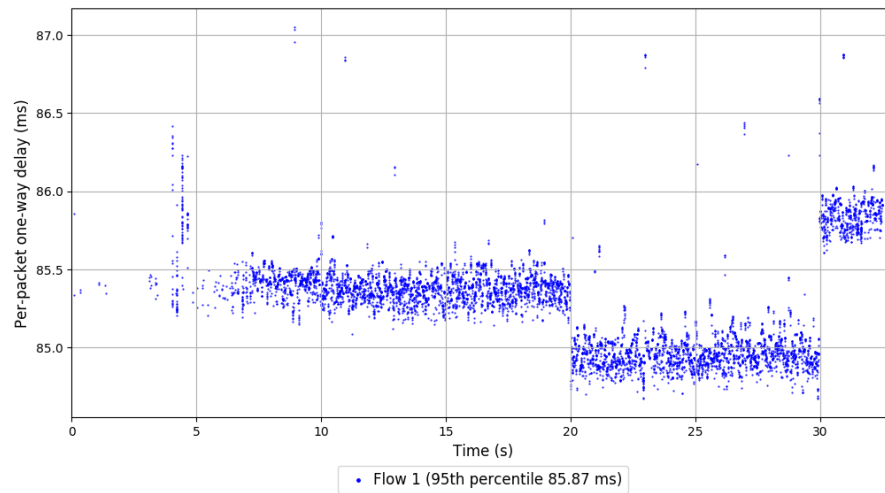
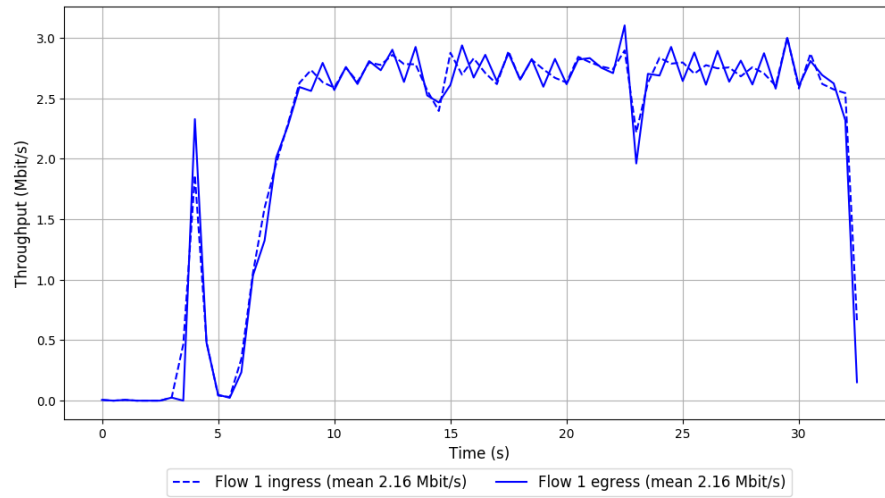
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 85.867 ms

Loss rate: 0.77%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-30 12:59:40

End at: 2018-01-30 13:00:10

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 86.149 ms

Loss rate: 0.77%

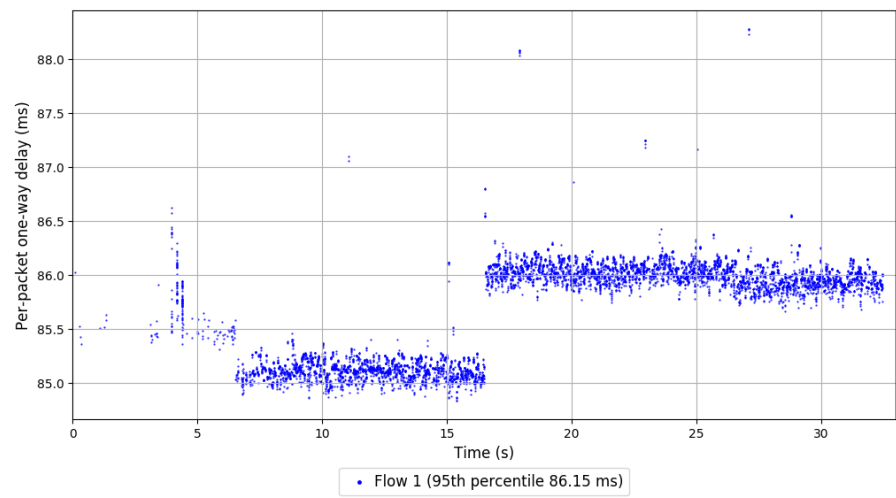
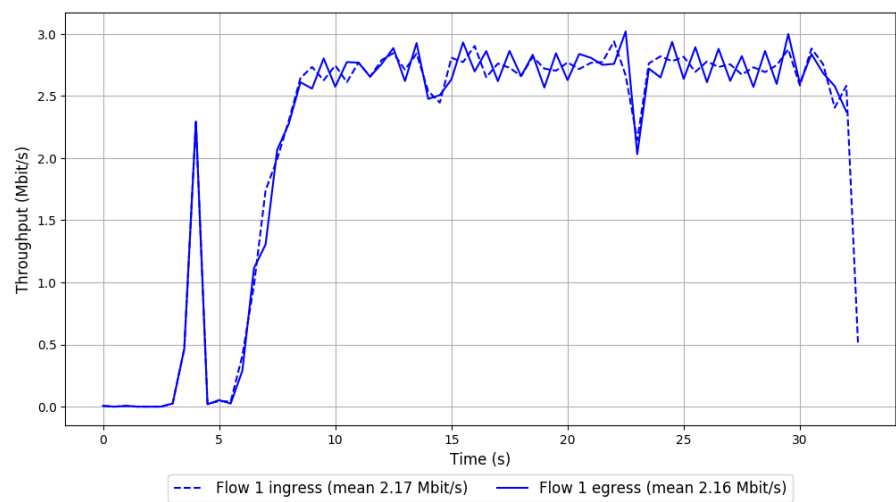
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 86.149 ms

Loss rate: 0.77%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-30 13:14:09

End at: 2018-01-30 13:14:39

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 86.293 ms

Loss rate: 0.76%

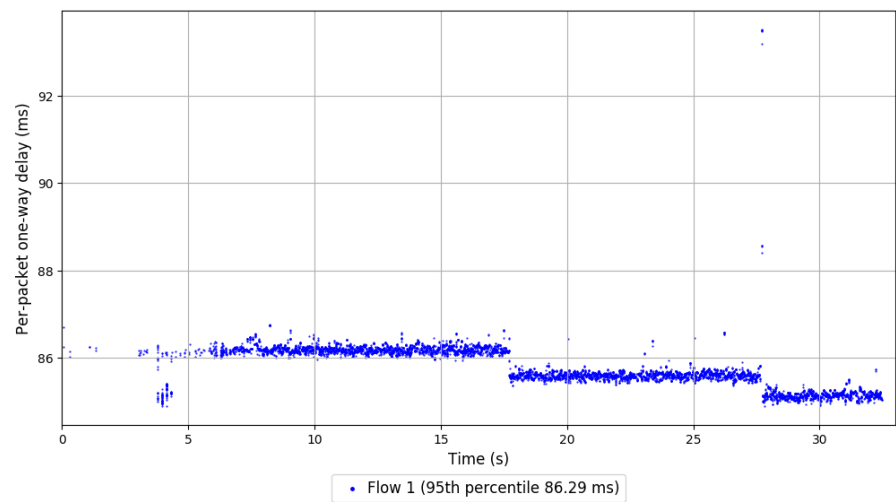
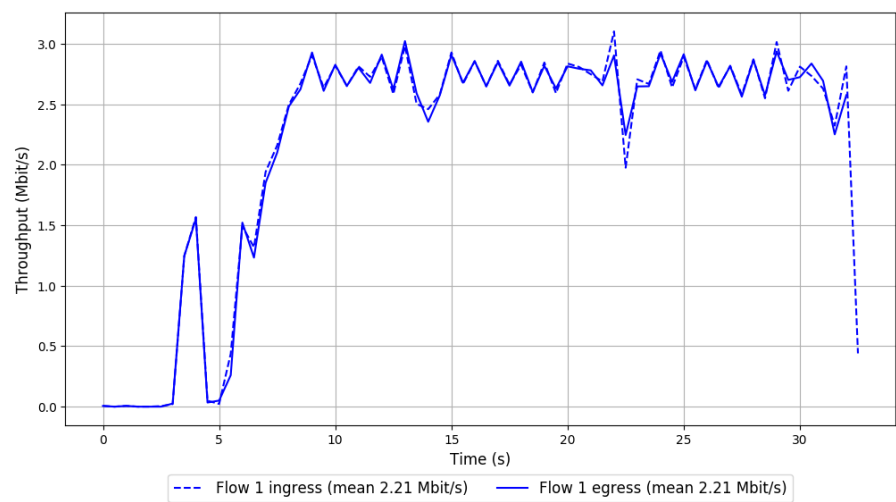
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 86.293 ms

Loss rate: 0.76%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-30 11:00:47

End at: 2018-01-30 11:01:17

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 112.662 ms

Loss rate: 3.85%

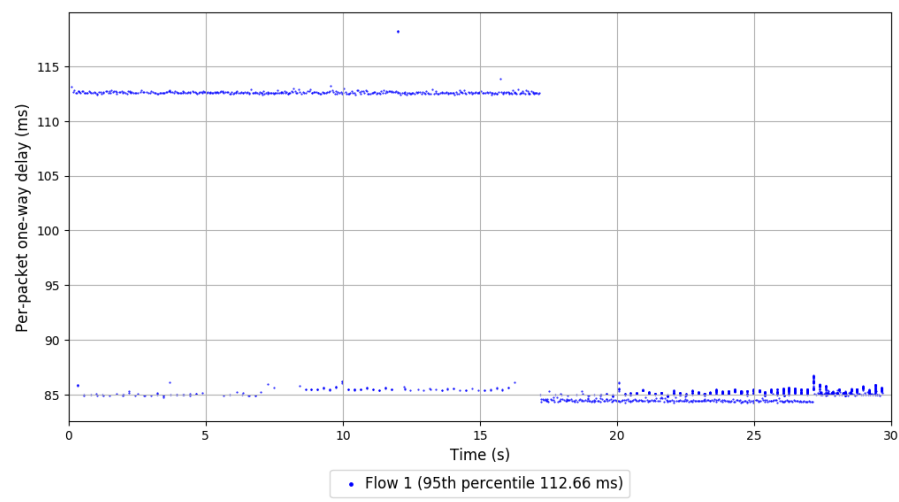
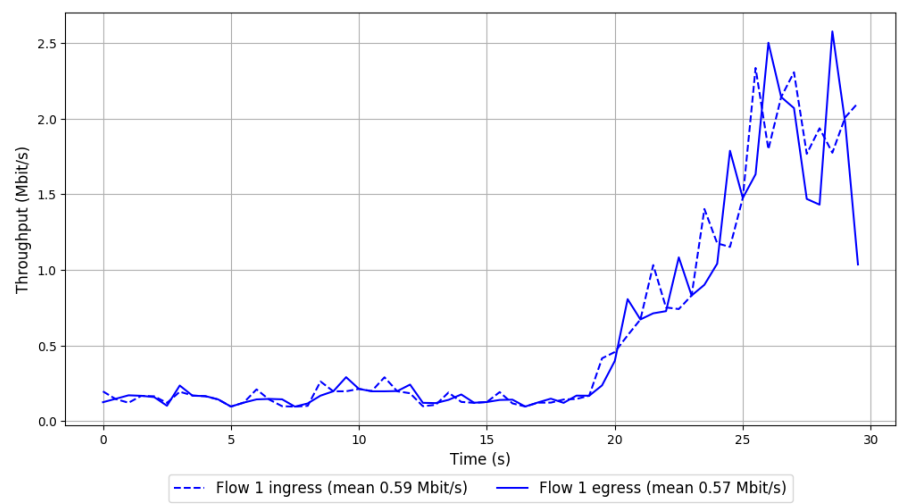
-- Flow 1:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 112.662 ms

Loss rate: 3.85%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-30 11:15:18

End at: 2018-01-30 11:15:48

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 85.314 ms

Loss rate: 1.81%

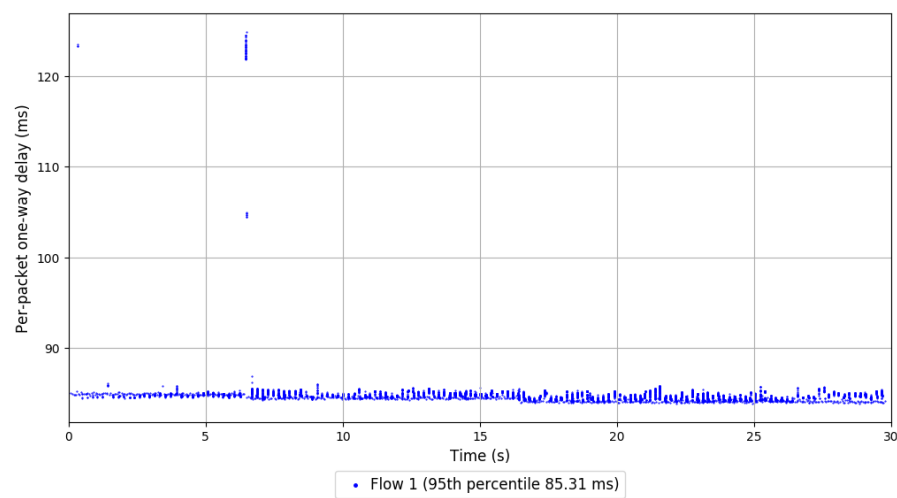
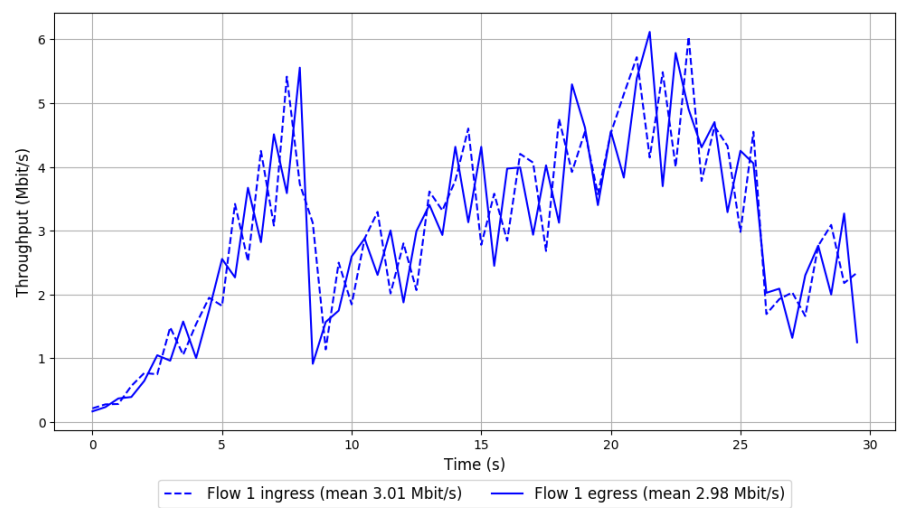
-- Flow 1:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 85.314 ms

Loss rate: 1.81%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-30 11:30:01

End at: 2018-01-30 11:30:31

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 86.847 ms

Loss rate: 0.59%

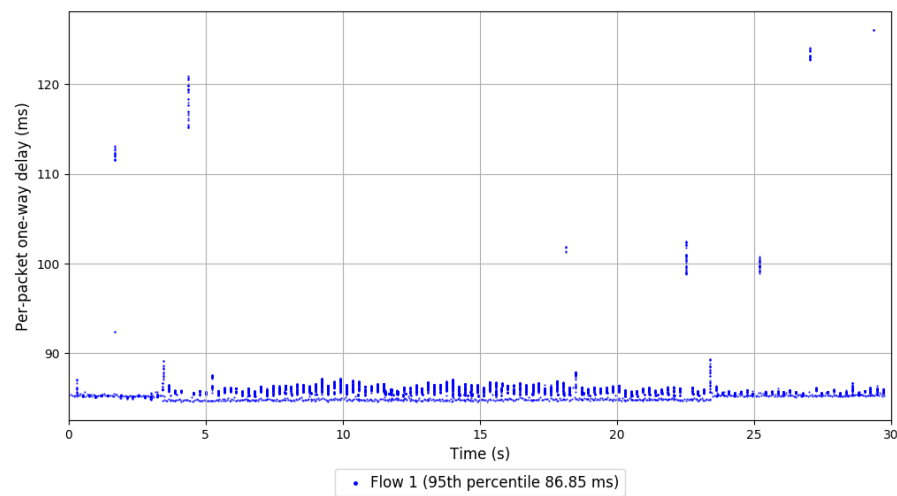
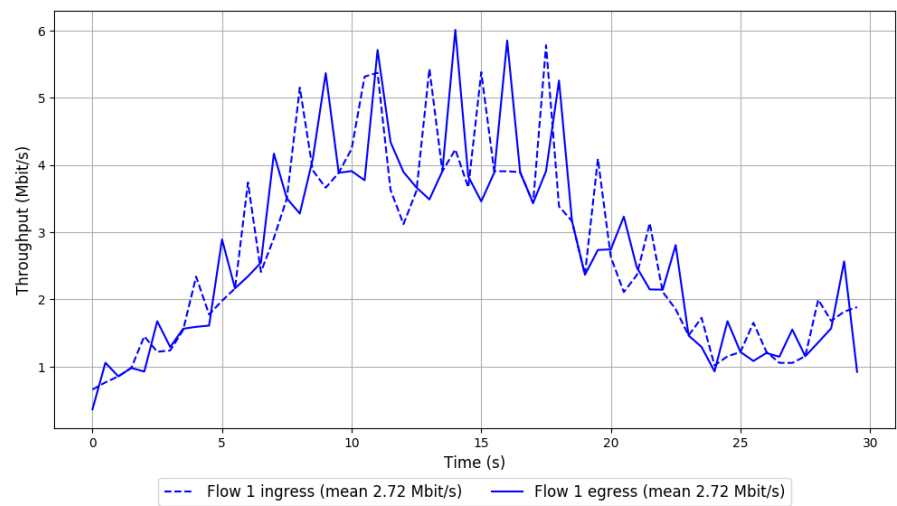
-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 86.847 ms

Loss rate: 0.59%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-30 11:44:46

End at: 2018-01-30 11:45:16

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 113.102 ms

Loss rate: 1.11%

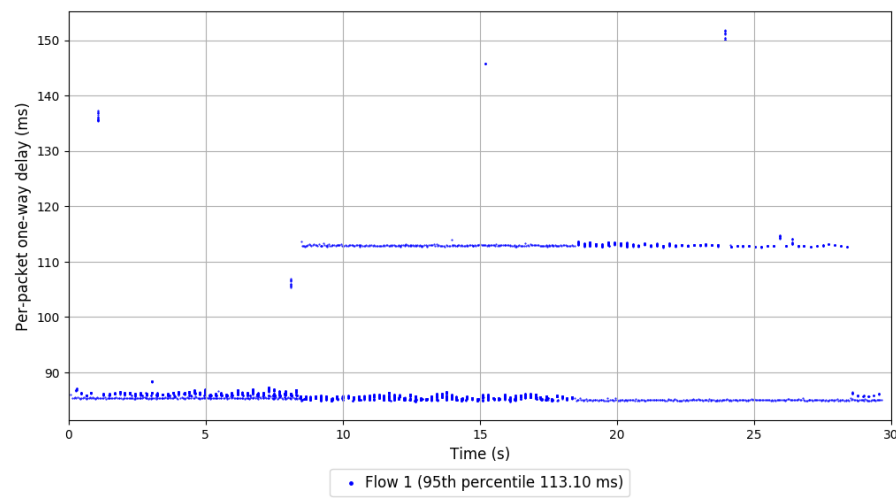
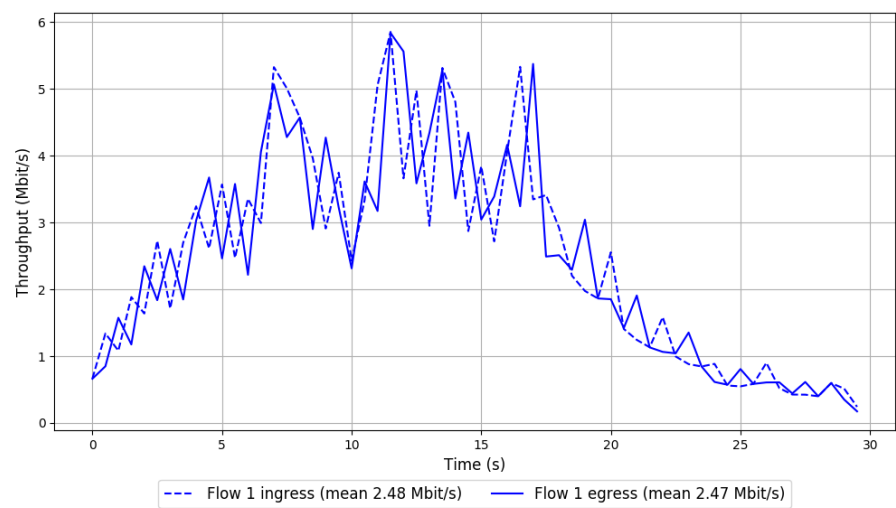
-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 113.102 ms

Loss rate: 1.11%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-30 11:59:40

End at: 2018-01-30 12:00:10

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 113.419 ms

Loss rate: 1.55%

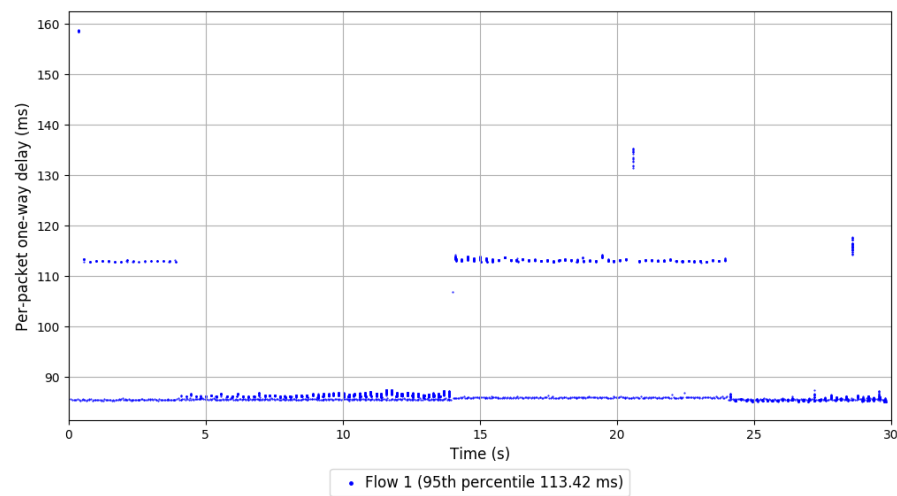
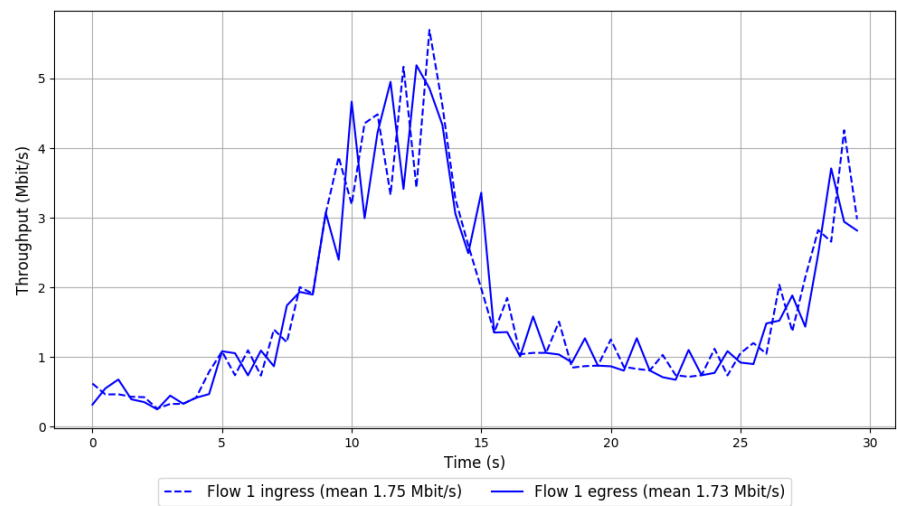
-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 113.419 ms

Loss rate: 1.55%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-30 12:14:12

End at: 2018-01-30 12:14:42

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 86.127 ms

Loss rate: 1.03%

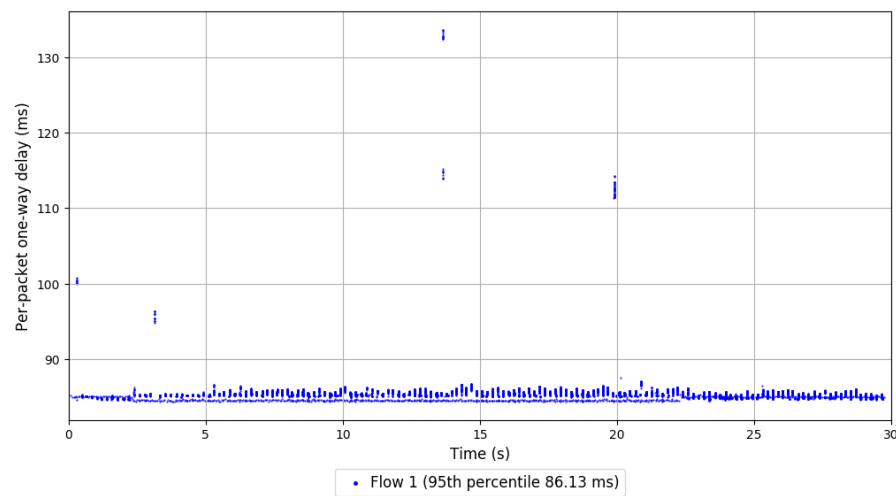
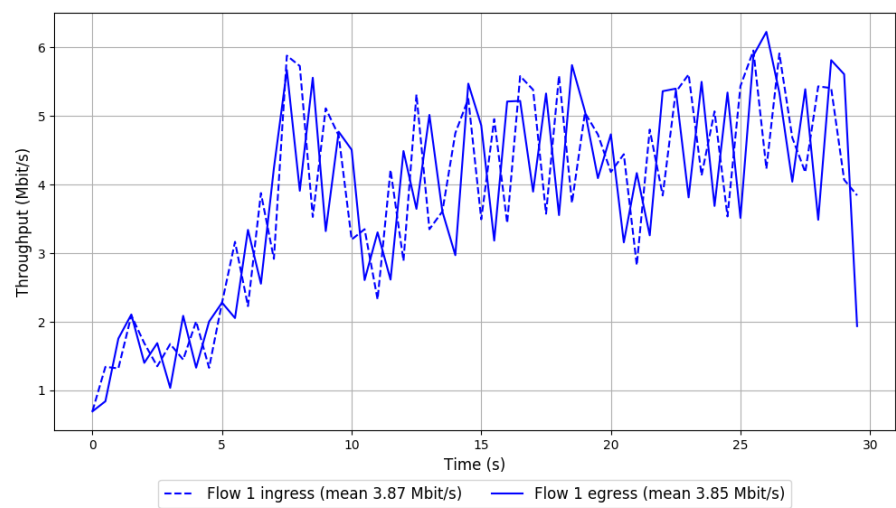
-- Flow 1:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 86.127 ms

Loss rate: 1.03%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-30 12:28:48

End at: 2018-01-30 12:29:18

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 85.516 ms

Loss rate: 0.98%

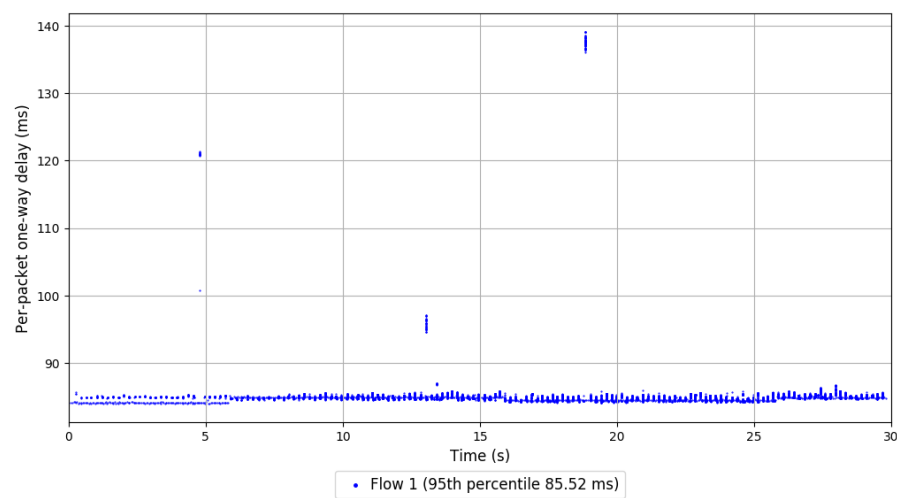
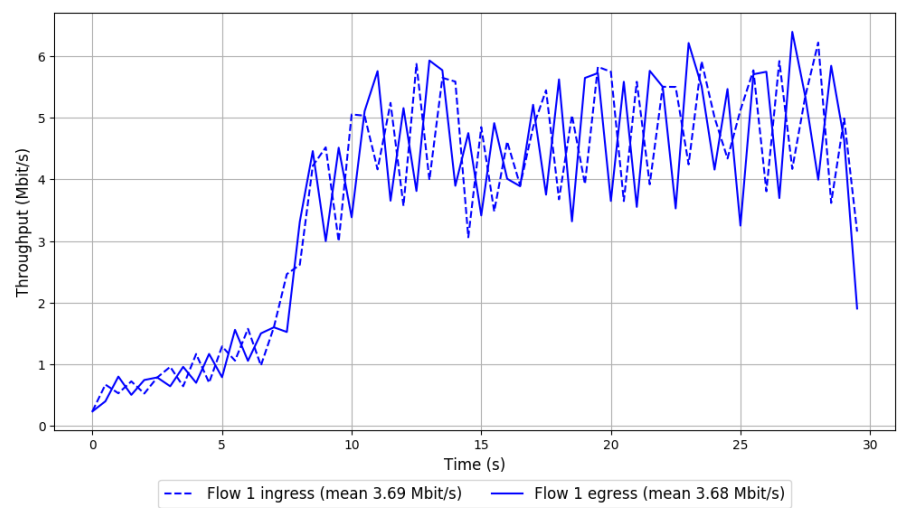
-- Flow 1:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 85.516 ms

Loss rate: 0.98%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-30 12:43:23

End at: 2018-01-30 12:43:53

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 113.446 ms

Loss rate: 1.64%

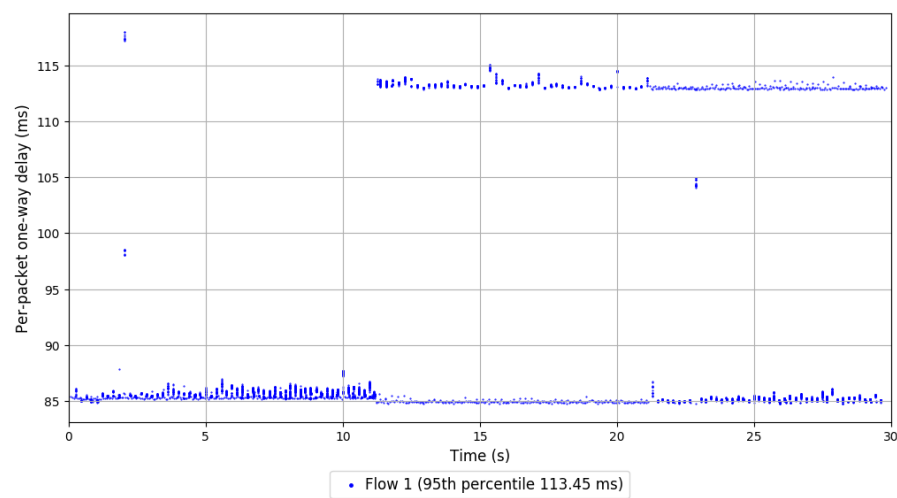
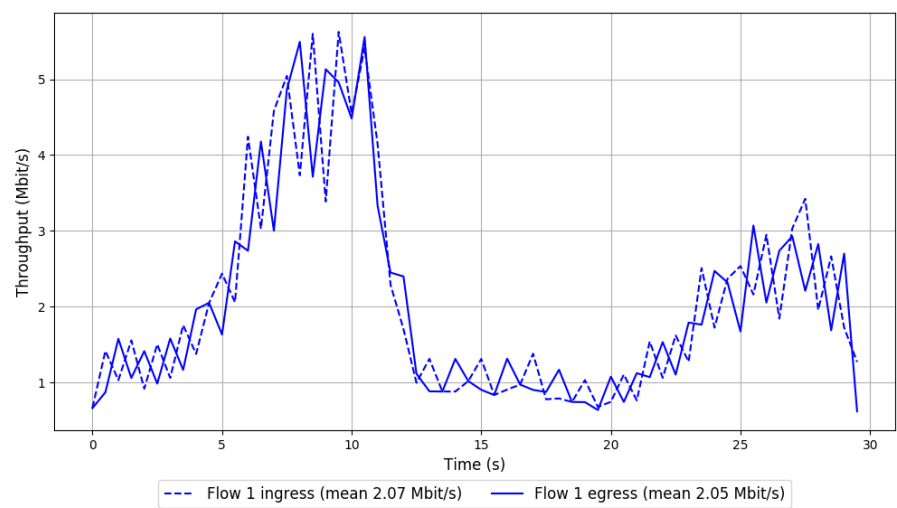
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 113.446 ms

Loss rate: 1.64%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-30 12:58:16

End at: 2018-01-30 12:58:46

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 113.040 ms

Loss rate: 1.87%

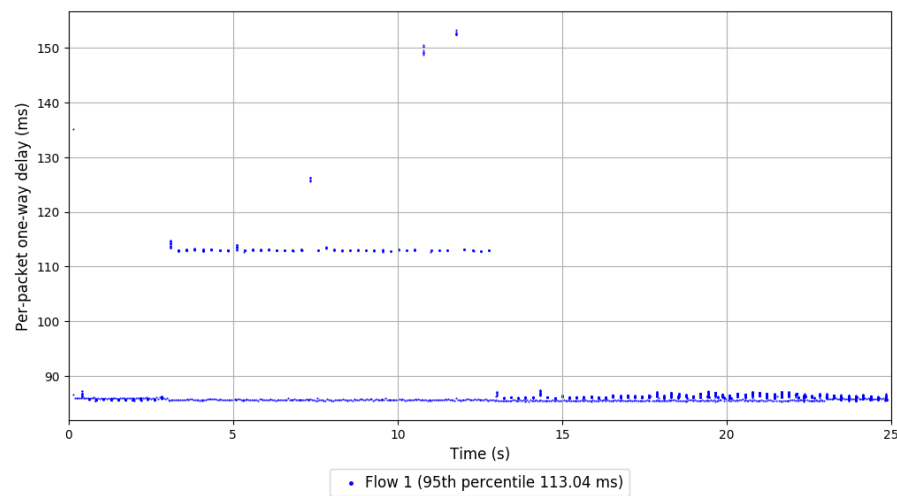
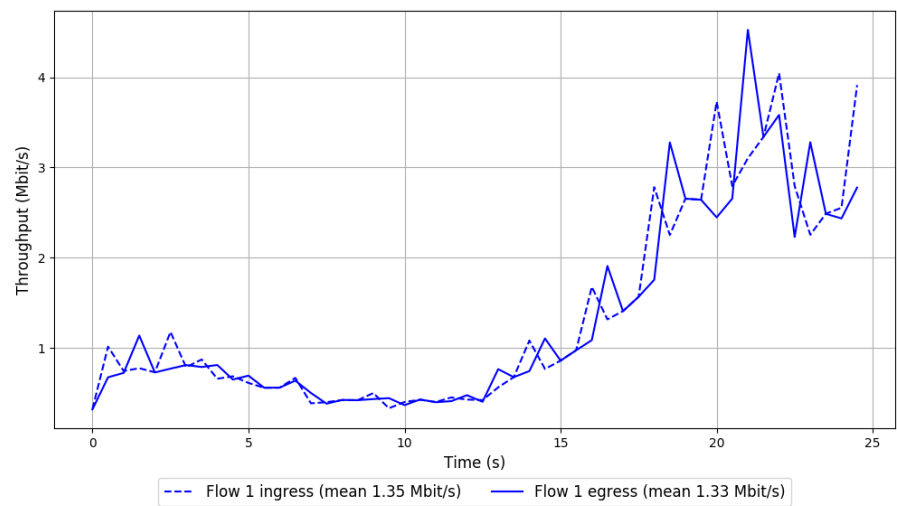
-- Flow 1:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 113.040 ms

Loss rate: 1.87%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-30 13:12:46

End at: 2018-01-30 13:13:16

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 86.427 ms

Loss rate: 3.06%

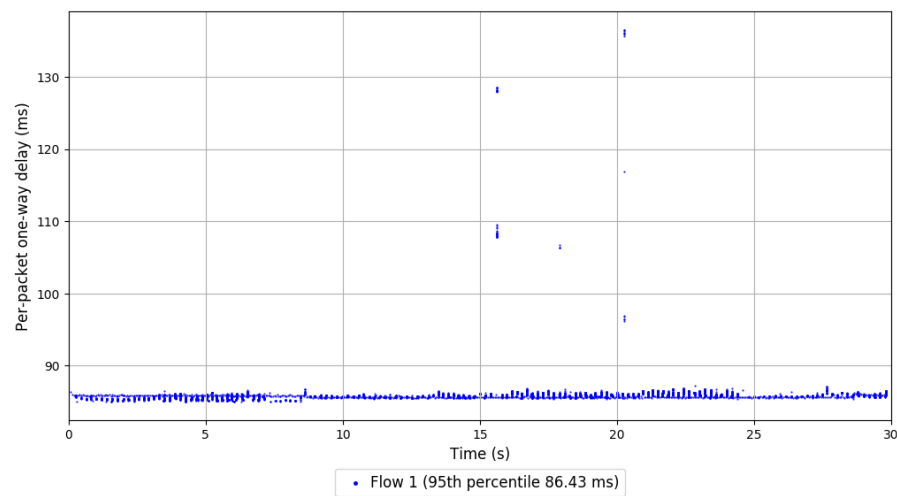
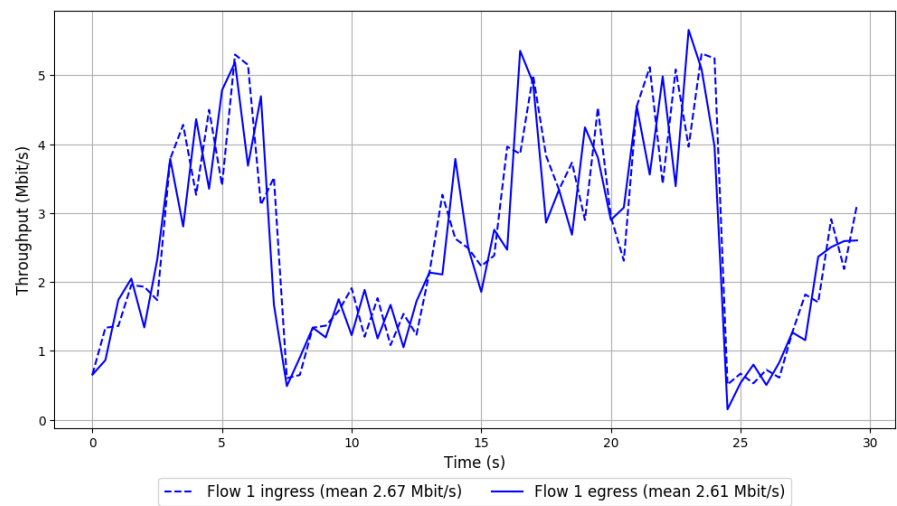
-- Flow 1:

Average throughput: 2.61 Mbit/s

95th percentile per-packet one-way delay: 86.427 ms

Loss rate: 3.06%

Run 10: Report of Sprout — Data Link

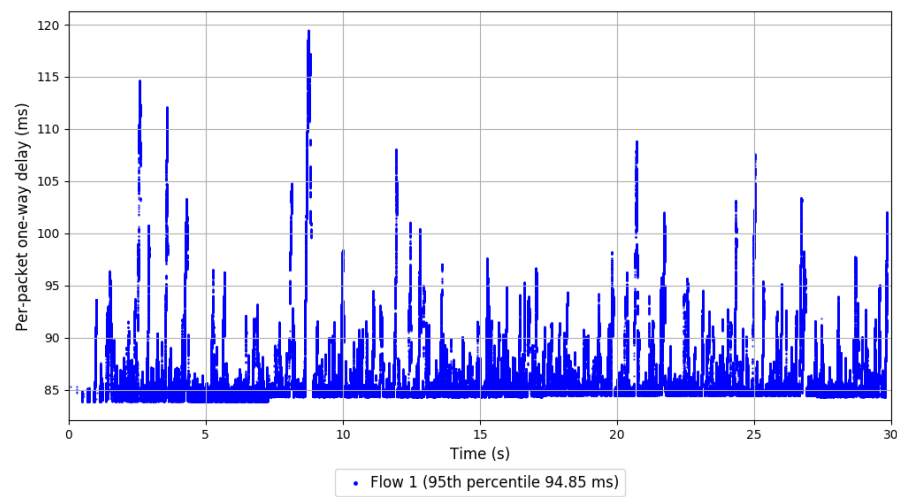
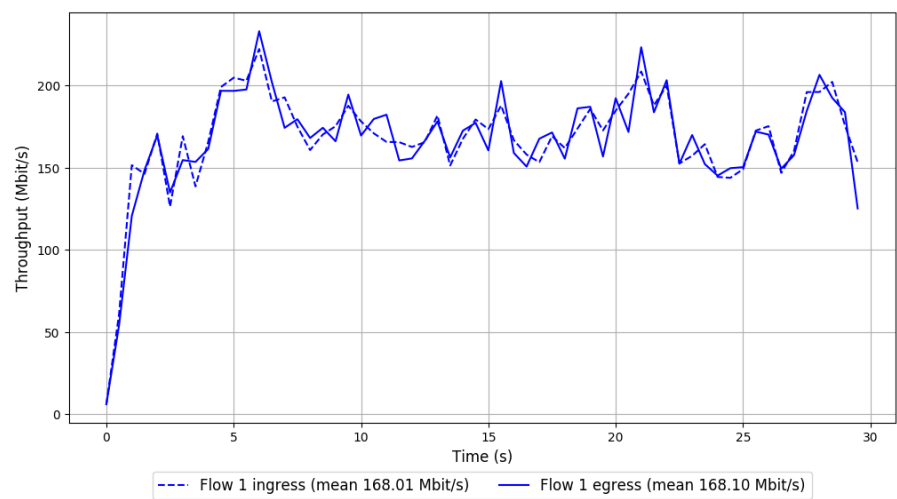


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-30 11:04:17
End at: 2018-01-30 11:04:47

# Below is generated by plot.py at 2018-01-30 16:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.10 Mbit/s
95th percentile per-packet one-way delay: 94.851 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 168.10 Mbit/s
95th percentile per-packet one-way delay: 94.851 ms
Loss rate: 0.61%
```


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

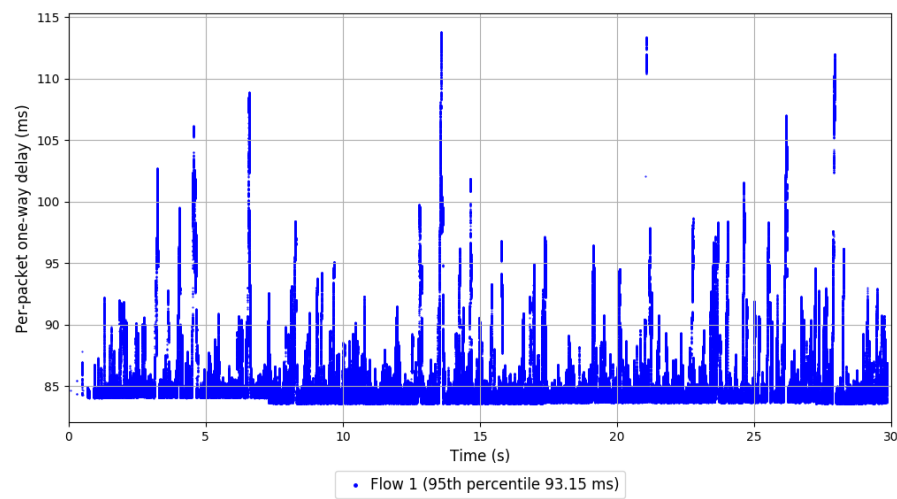
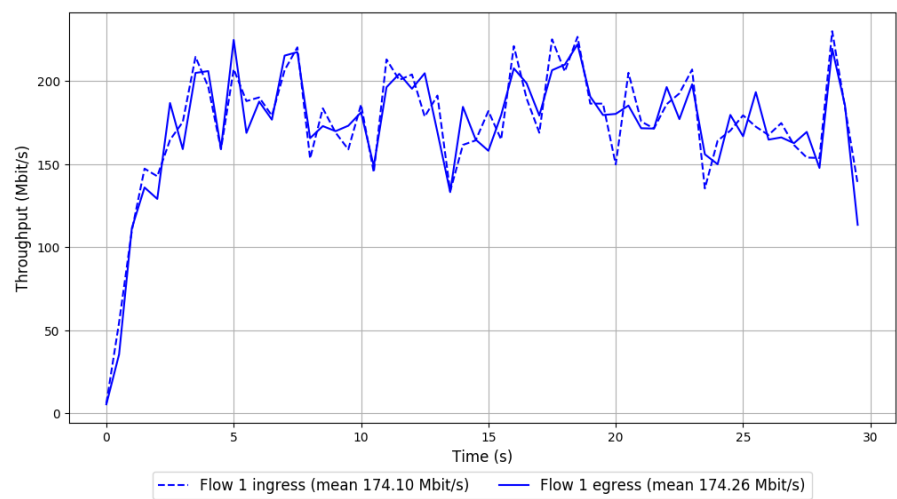


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-30 11:18:47
End at: 2018-01-30 11:19:17

# Below is generated by plot.py at 2018-01-30 16:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.26 Mbit/s
95th percentile per-packet one-way delay: 93.151 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 174.26 Mbit/s
95th percentile per-packet one-way delay: 93.151 ms
Loss rate: 0.58%
```

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

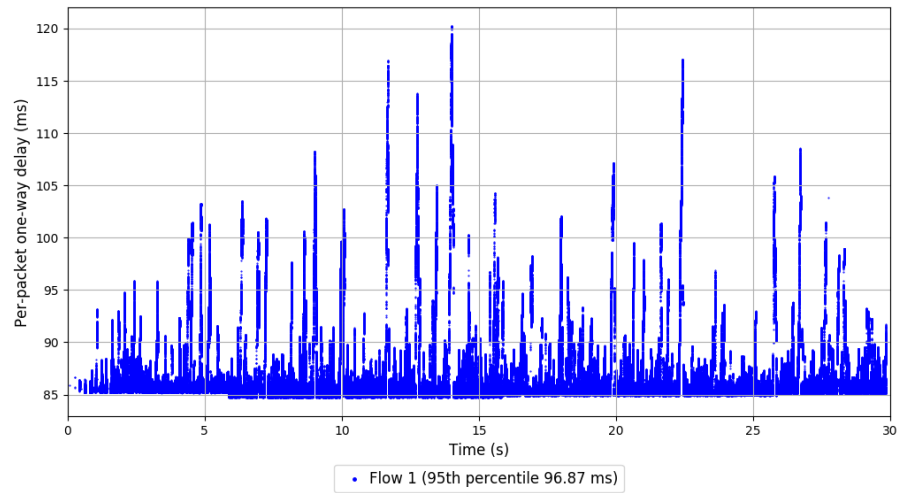
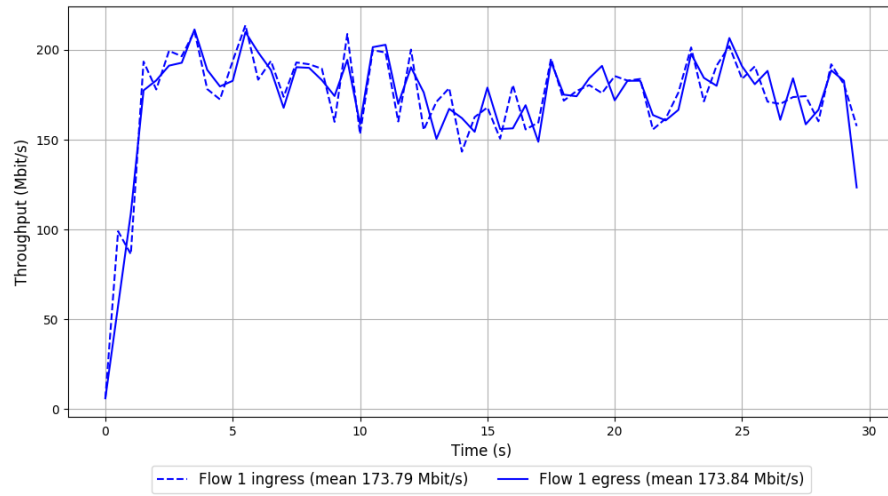


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-30 11:33:28
End at: 2018-01-30 11:33:58

# Below is generated by plot.py at 2018-01-30 16:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.84 Mbit/s
95th percentile per-packet one-way delay: 96.873 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 173.84 Mbit/s
95th percentile per-packet one-way delay: 96.873 ms
Loss rate: 0.62%
```

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

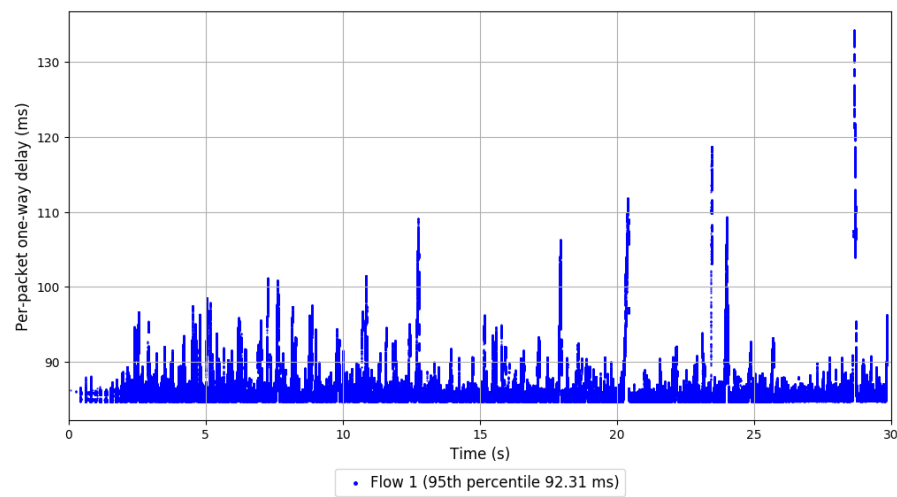
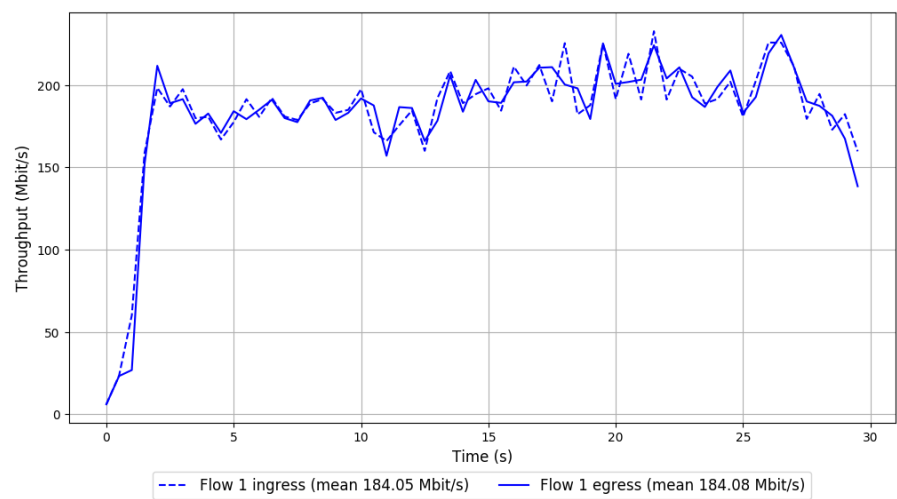


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-30 11:48:18
End at: 2018-01-30 11:48:48

# Below is generated by plot.py at 2018-01-30 16:20:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.08 Mbit/s
95th percentile per-packet one-way delay: 92.309 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 184.08 Mbit/s
95th percentile per-packet one-way delay: 92.309 ms
Loss rate: 0.58%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-30 12:03:14

End at: 2018-01-30 12:03:44

Below is generated by plot.py at 2018-01-30 16:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.56 Mbit/s

95th percentile per-packet one-way delay: 96.690 ms

Loss rate: 0.16%

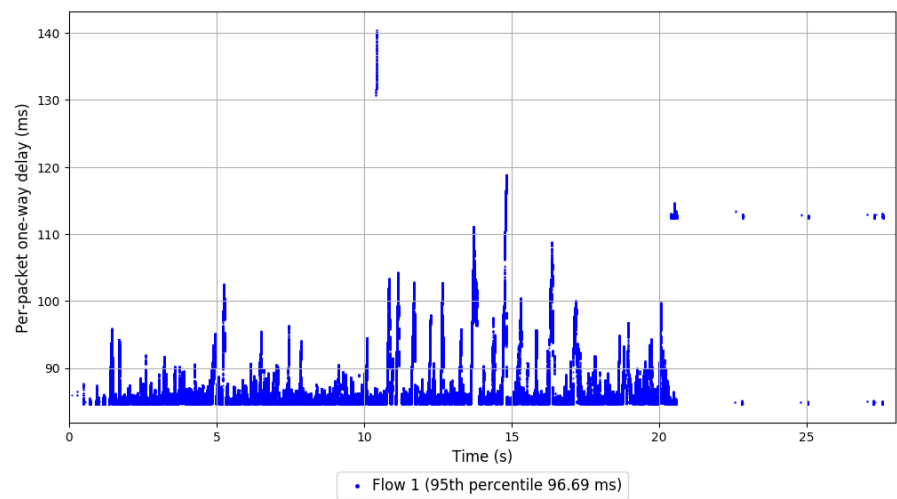
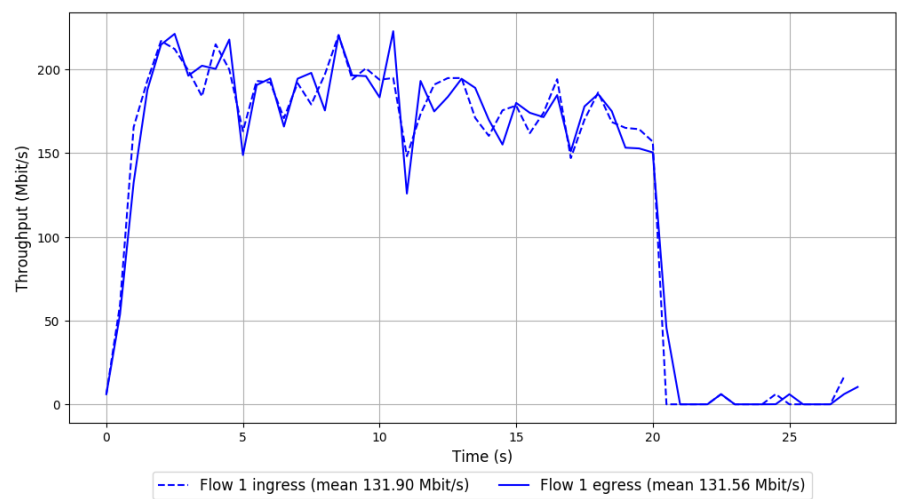
-- Flow 1:

Average throughput: 131.56 Mbit/s

95th percentile per-packet one-way delay: 96.690 ms

Loss rate: 0.16%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-30 12:17:44

End at: 2018-01-30 12:18:14

Below is generated by plot.py at 2018-01-30 16:20:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.14 Mbit/s

95th percentile per-packet one-way delay: 90.128 ms

Loss rate: 0.55%

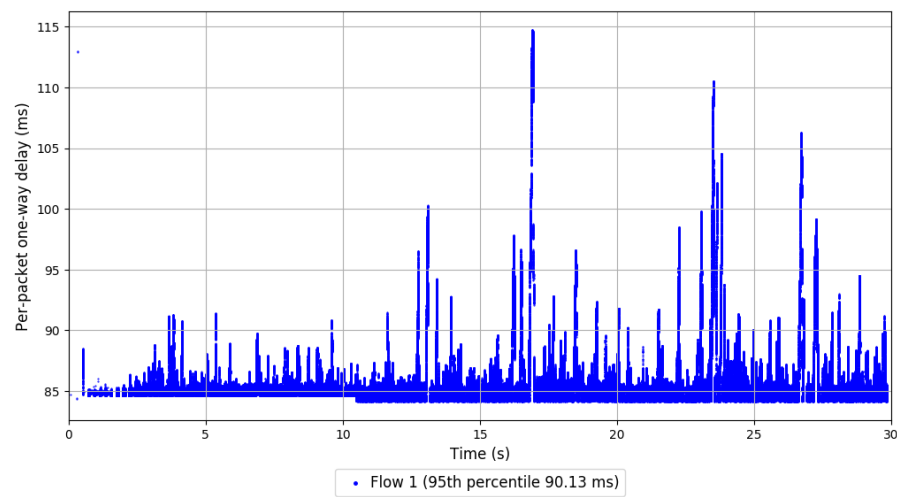
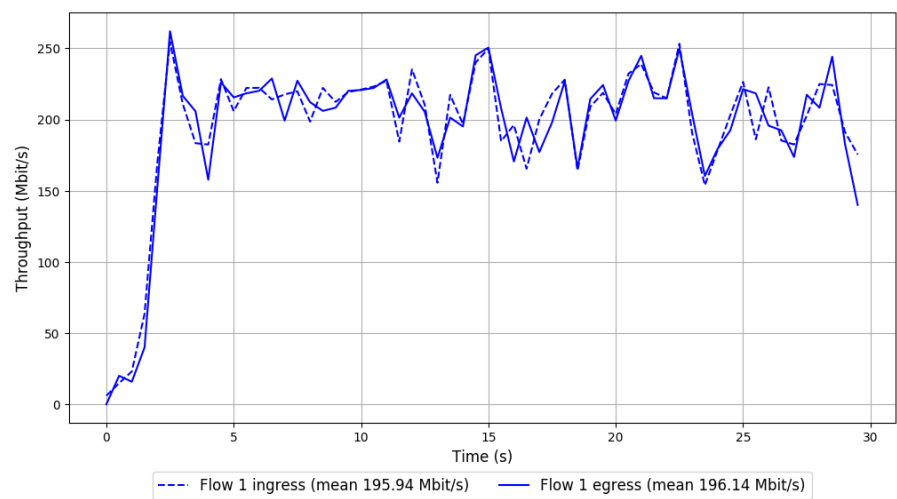
-- Flow 1:

Average throughput: 196.14 Mbit/s

95th percentile per-packet one-way delay: 90.128 ms

Loss rate: 0.55%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-30 12:32:22

End at: 2018-01-30 12:32:52

Below is generated by plot.py at 2018-01-30 16:21:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.37 Mbit/s

95th percentile per-packet one-way delay: 95.920 ms

Loss rate: 1.38%

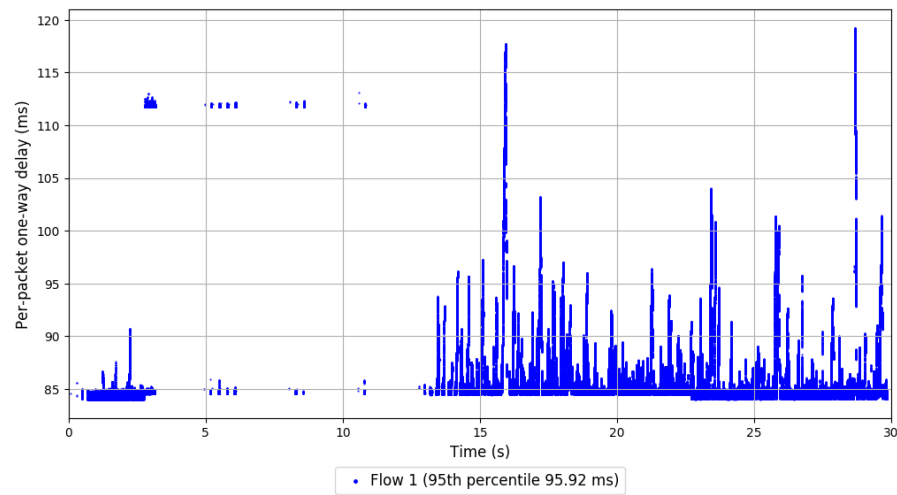
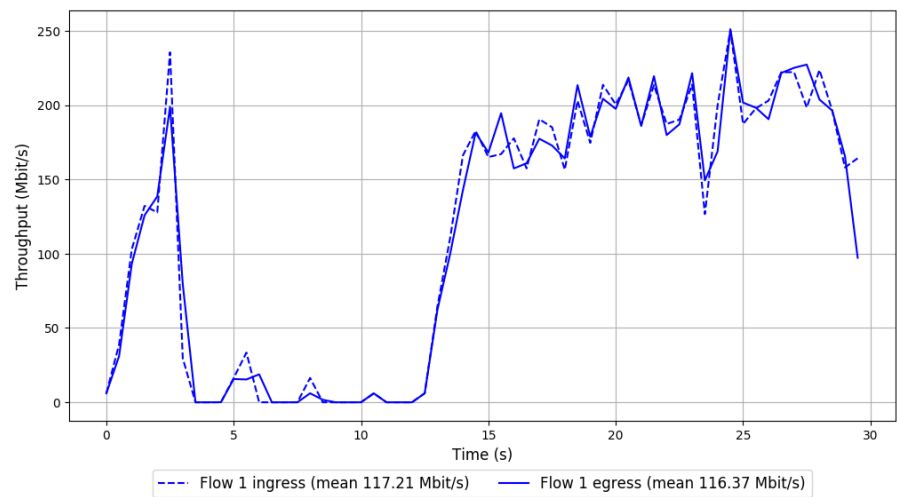
-- Flow 1:

Average throughput: 116.37 Mbit/s

95th percentile per-packet one-way delay: 95.920 ms

Loss rate: 1.38%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-30 12:46:56

End at: 2018-01-30 12:47:26

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.36 Mbit/s

95th percentile per-packet one-way delay: 97.644 ms

Loss rate: 0.00%

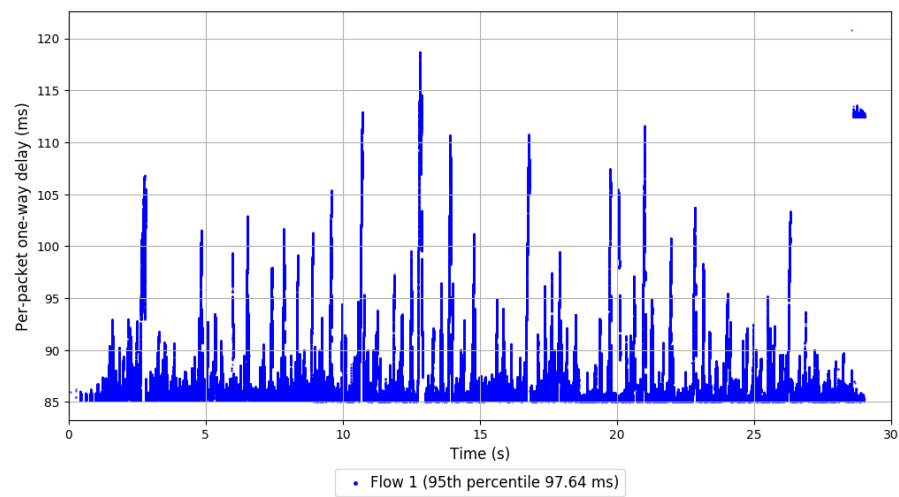
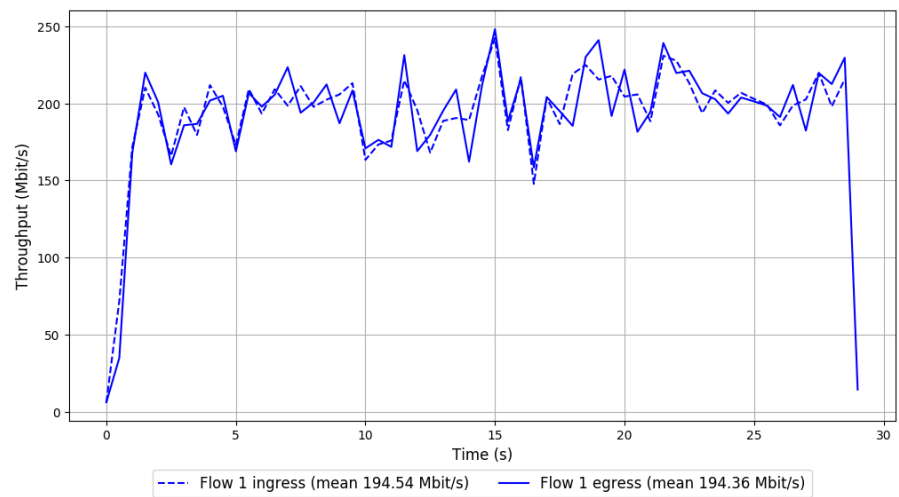
-- Flow 1:

Average throughput: 194.36 Mbit/s

95th percentile per-packet one-way delay: 97.644 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-30 13:01:48

End at: 2018-01-30 13:02:18

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.45 Mbit/s

95th percentile per-packet one-way delay: 91.107 ms

Loss rate: 0.83%

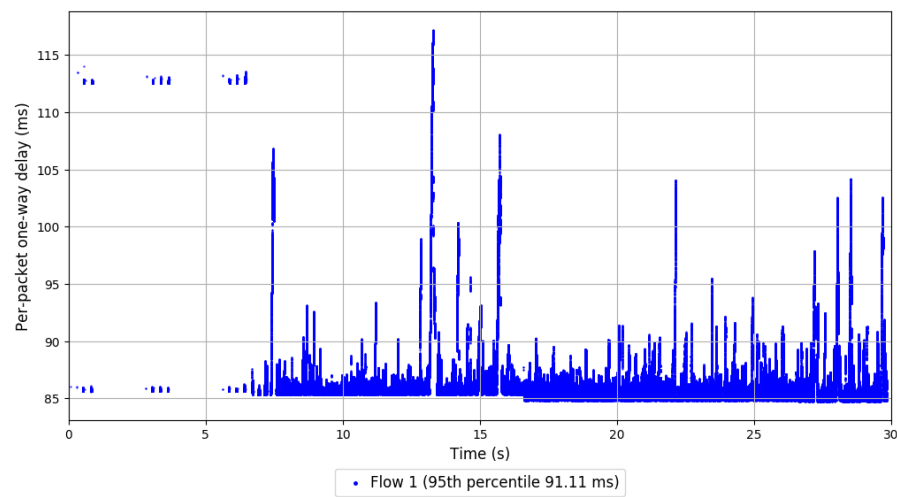
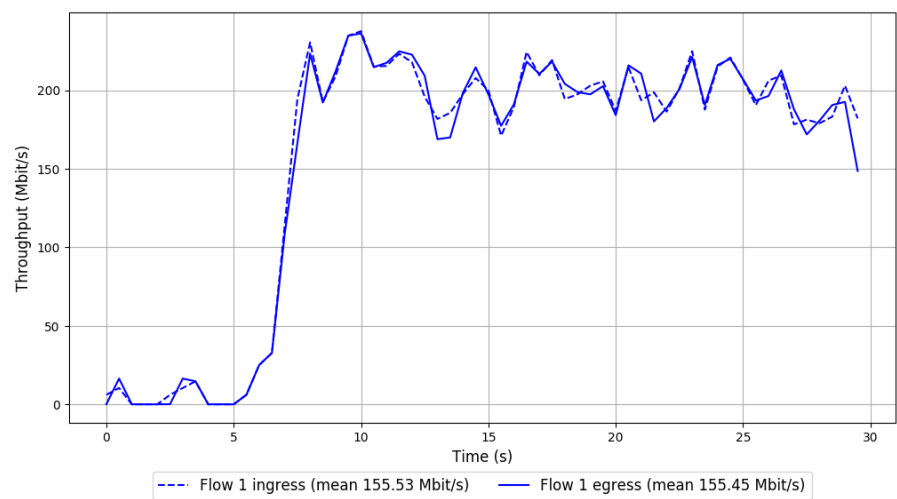
-- Flow 1:

Average throughput: 155.45 Mbit/s

95th percentile per-packet one-way delay: 91.107 ms

Loss rate: 0.83%

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

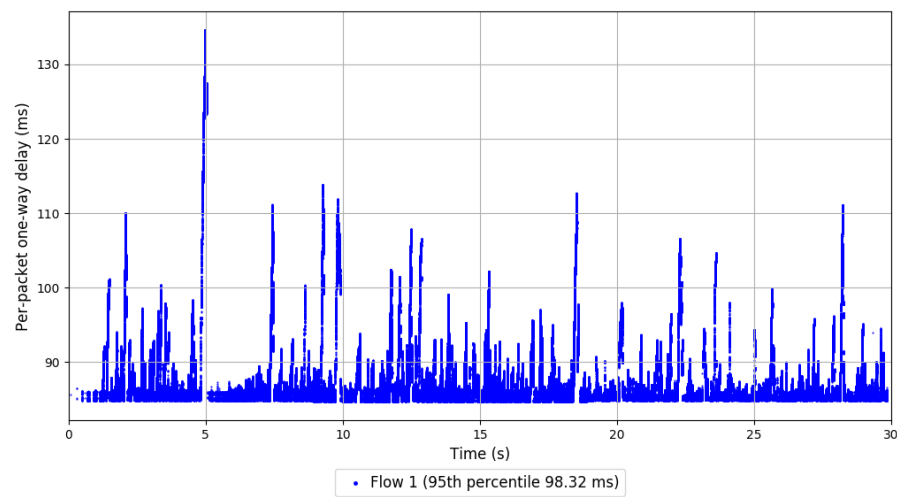
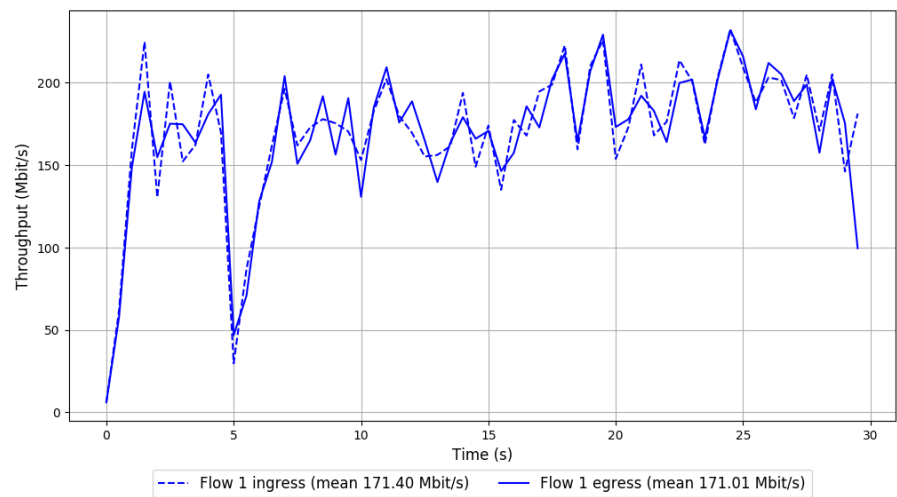


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-30 13:16:15
End at: 2018-01-30 13:16:45

# Below is generated by plot.py at 2018-01-30 16:25:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.01 Mbit/s
95th percentile per-packet one-way delay: 98.320 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 171.01 Mbit/s
95th percentile per-packet one-way delay: 98.320 ms
Loss rate: 0.88%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-30 11:07:46

End at: 2018-01-30 11:08:16

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 98.818 ms

Loss rate: 0.99%

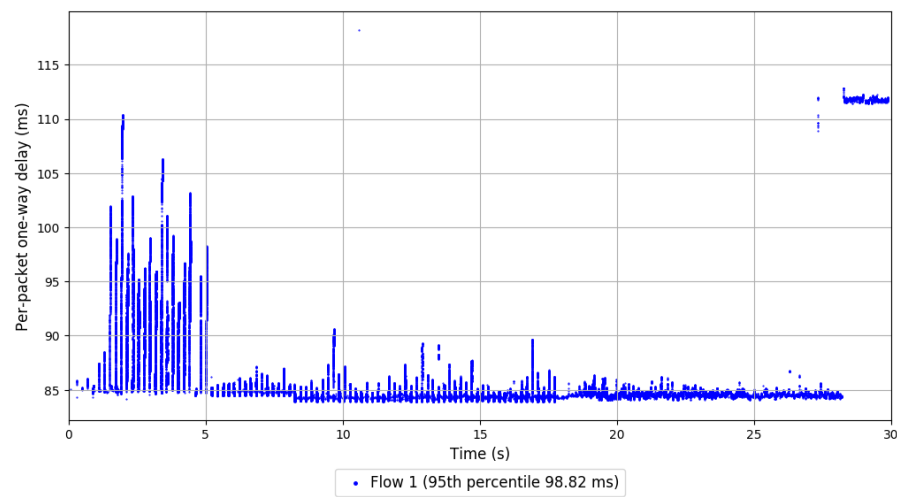
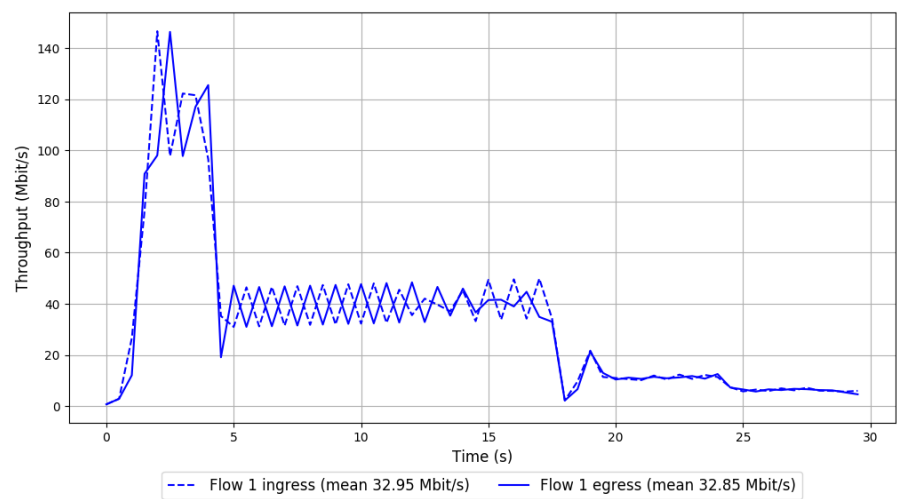
-- Flow 1:

Average throughput: 32.85 Mbit/s

95th percentile per-packet one-way delay: 98.818 ms

Loss rate: 0.99%

Run 1: Report of TCP Vegas — Data Link

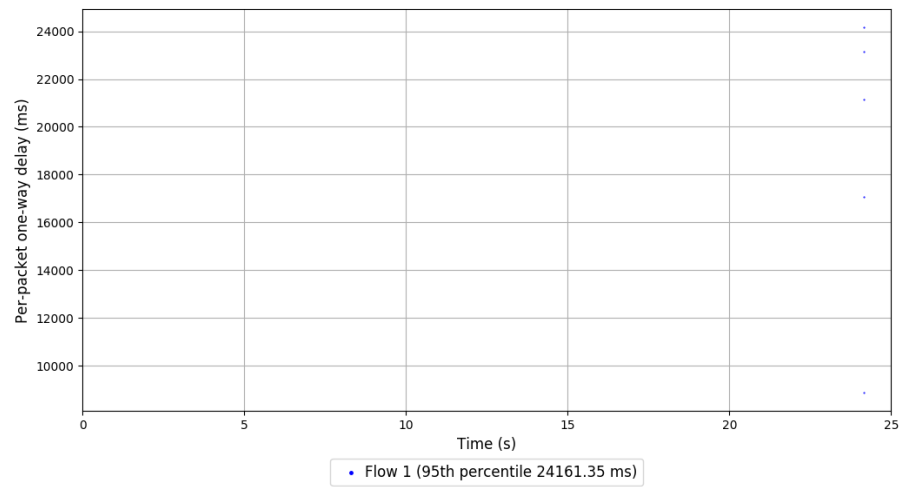
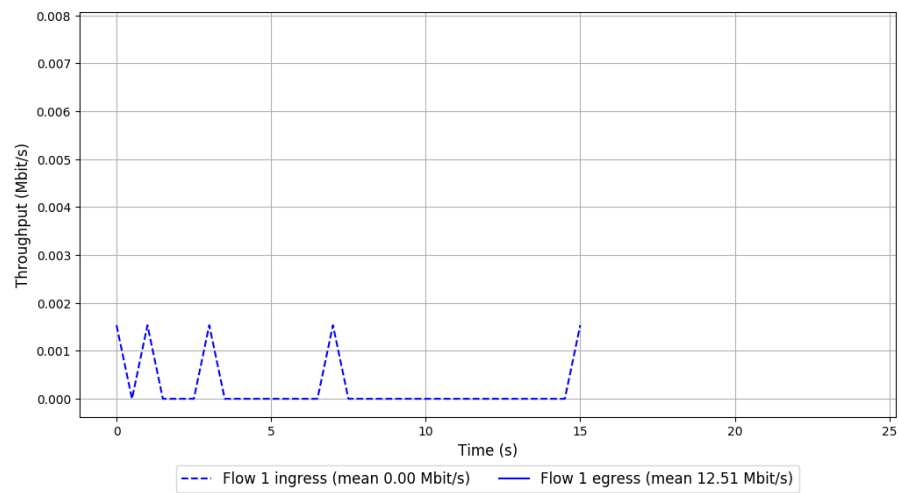


Run 2: Statistics of TCP Vegas

Start at: 2018-01-30 11:22:23

End at: 2018-01-30 11:22:53

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-30 11:37:00

End at: 2018-01-30 11:37:30

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 113.086 ms

Loss rate: 4.47%

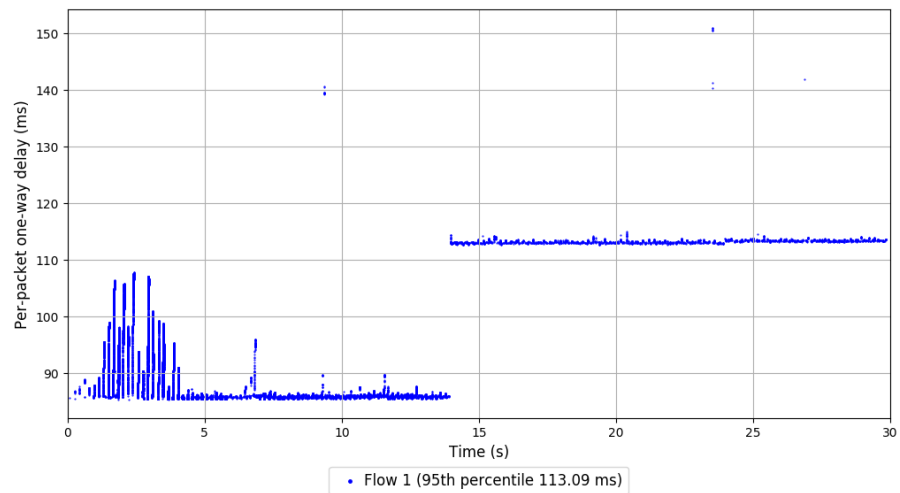
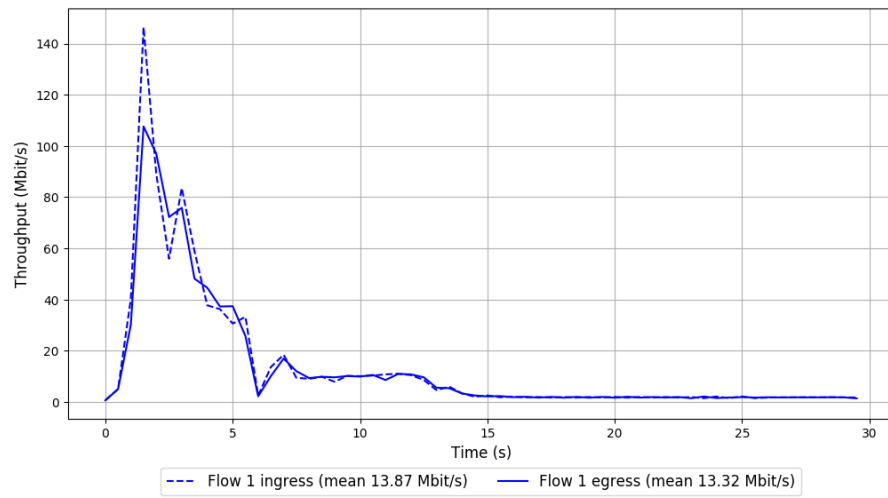
-- Flow 1:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 113.086 ms

Loss rate: 4.47%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-30 11:51:49

End at: 2018-01-30 11:52:19

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 114.764 ms

Loss rate: 4.17%

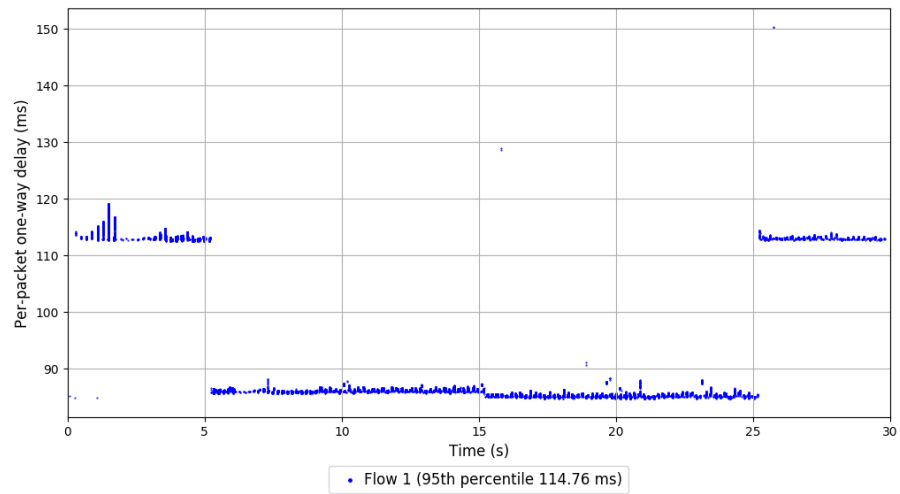
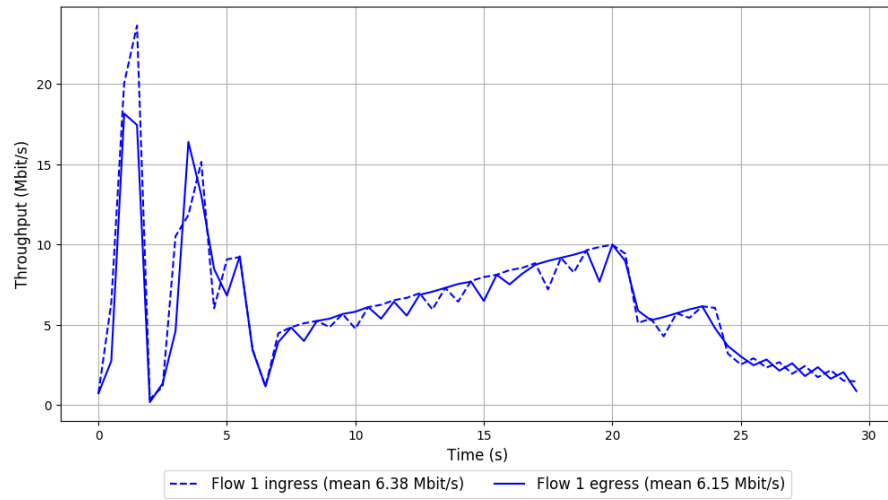
-- Flow 1:

Average throughput: 6.15 Mbit/s

95th percentile per-packet one-way delay: 114.764 ms

Loss rate: 4.17%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-30 12:06:42

End at: 2018-01-30 12:07:12

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 99.016 ms

Loss rate: 0.46%

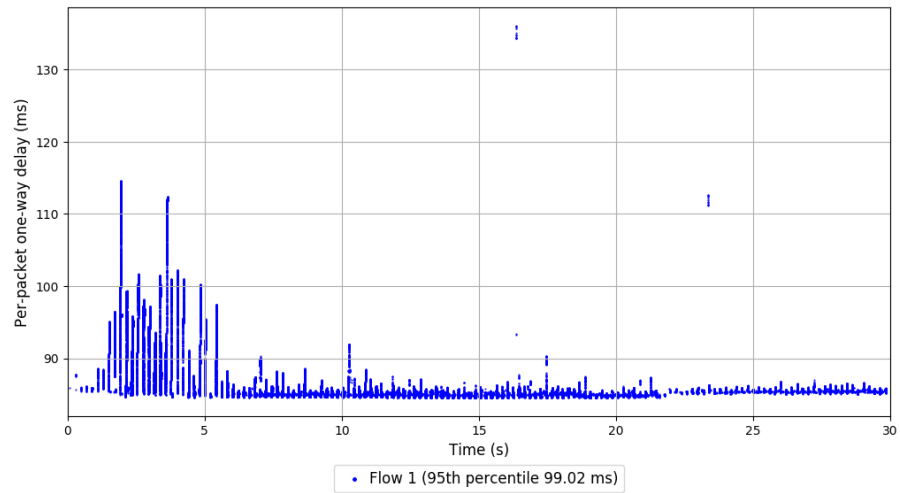
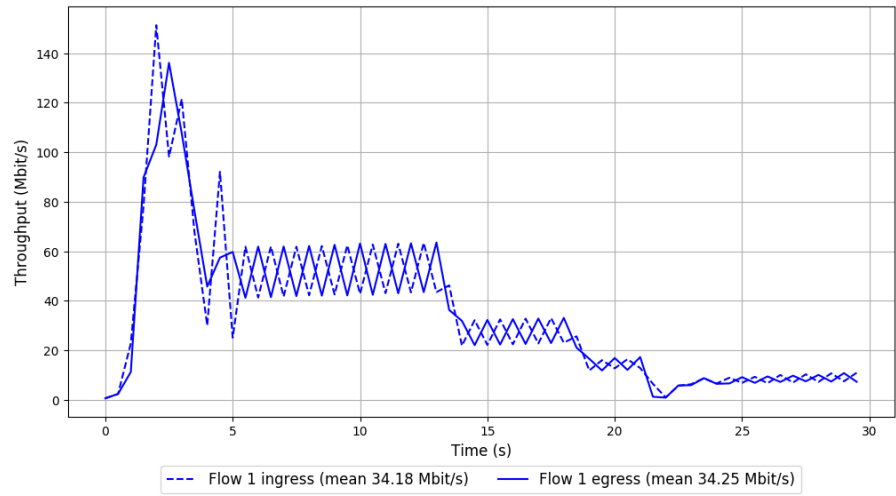
-- Flow 1:

Average throughput: 34.25 Mbit/s

95th percentile per-packet one-way delay: 99.016 ms

Loss rate: 0.46%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-30 12:21:14

End at: 2018-01-30 12:21:44

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 103.249 ms

Loss rate: 0.66%

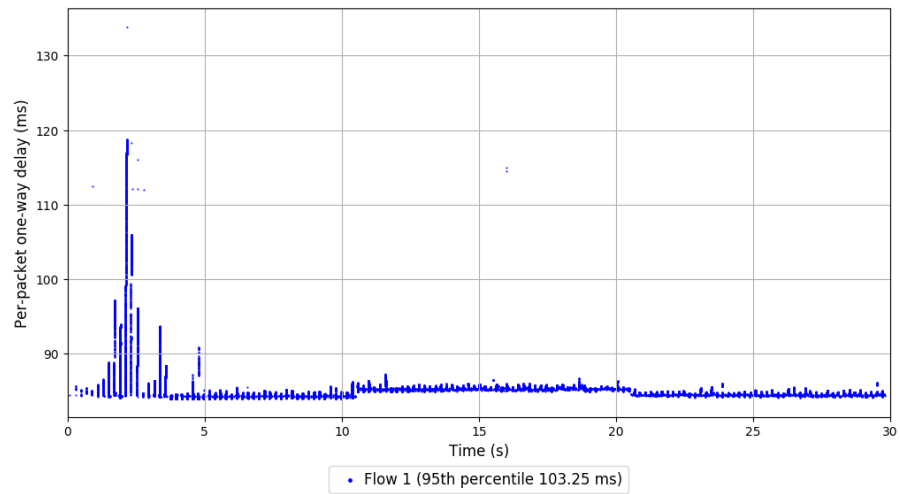
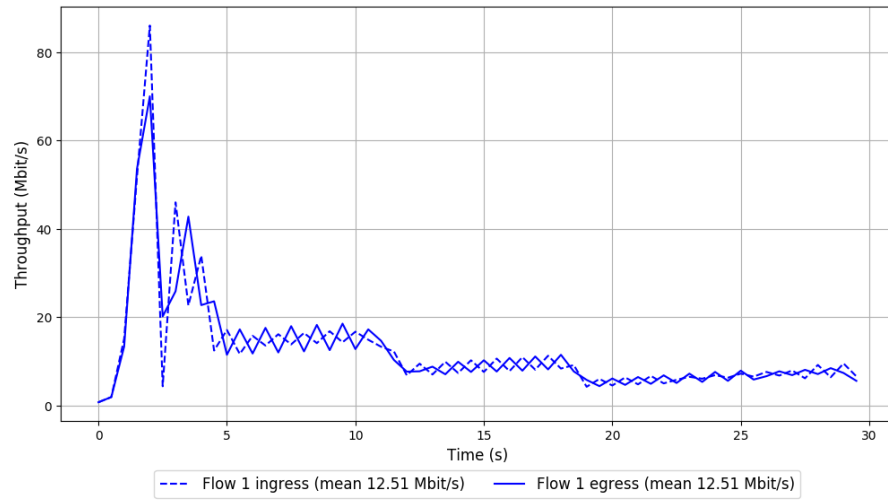
-- Flow 1:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 103.249 ms

Loss rate: 0.66%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-30 12:35:42

End at: 2018-01-30 12:36:12

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.56 Mbit/s

95th percentile per-packet one-way delay: 86.987 ms

Loss rate: 0.40%

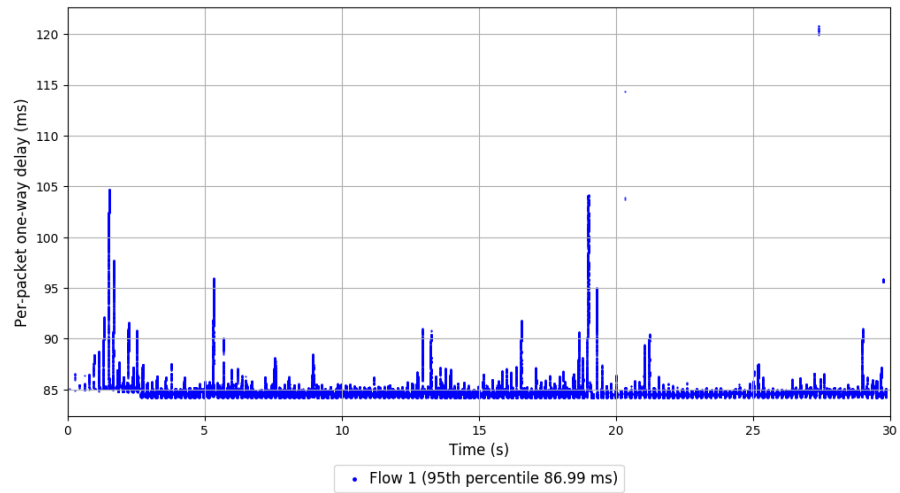
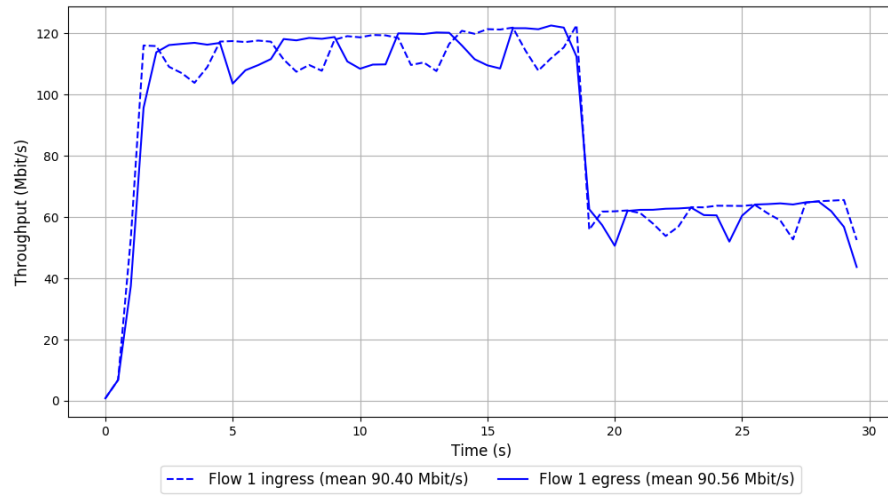
-- Flow 1:

Average throughput: 90.56 Mbit/s

95th percentile per-packet one-way delay: 86.987 ms

Loss rate: 0.40%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-30 12:50:30

End at: 2018-01-30 12:51:00

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 100.167 ms

Loss rate: 0.63%

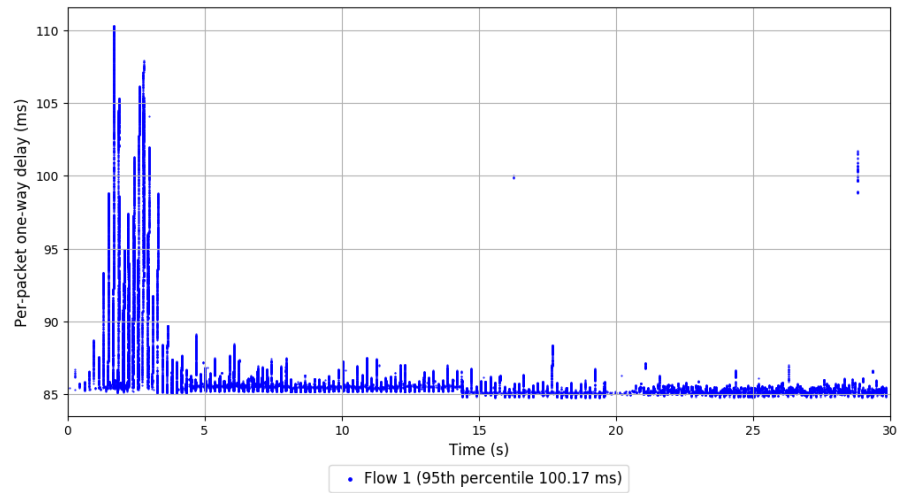
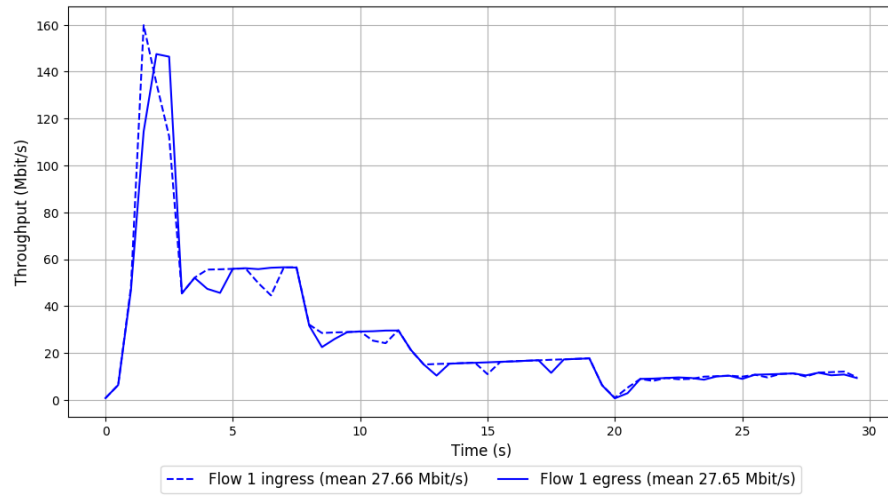
-- Flow 1:

Average throughput: 27.65 Mbit/s

95th percentile per-packet one-way delay: 100.167 ms

Loss rate: 0.63%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-30 13:05:16

End at: 2018-01-30 13:05:46

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 113.684 ms

Loss rate: 2.15%

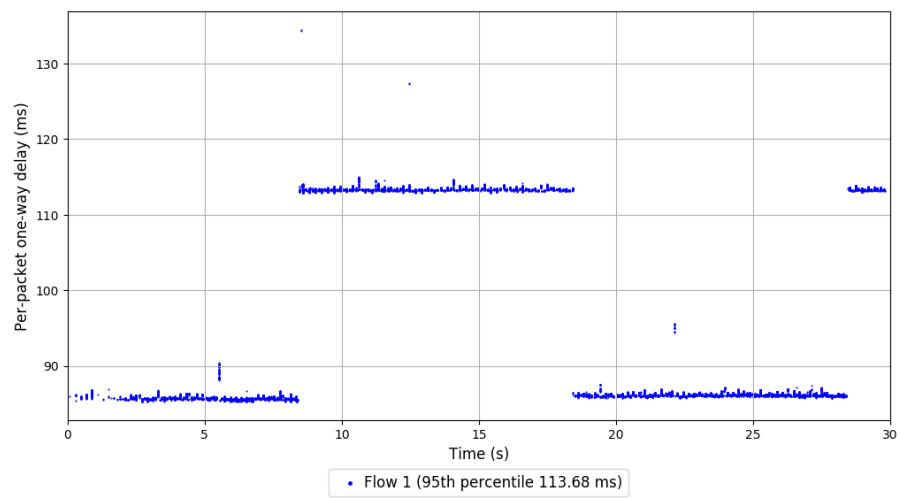
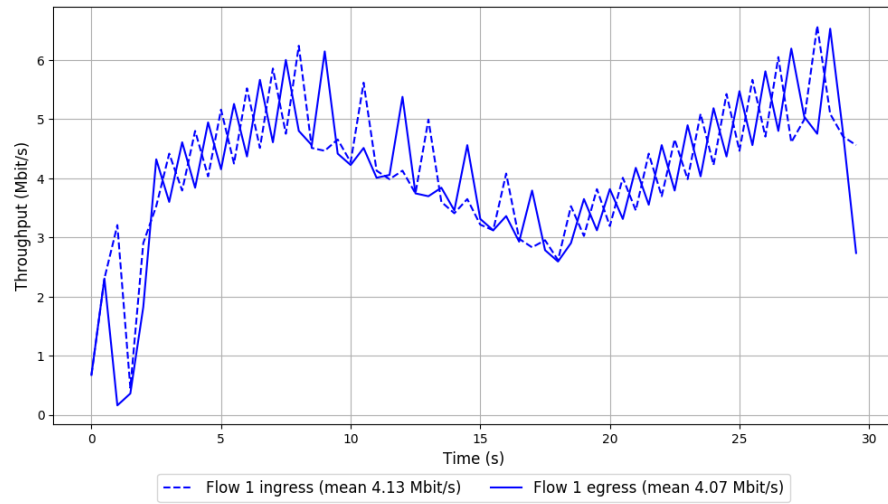
-- Flow 1:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 113.684 ms

Loss rate: 2.15%

Run 9: Report of TCP Vegas — Data Link

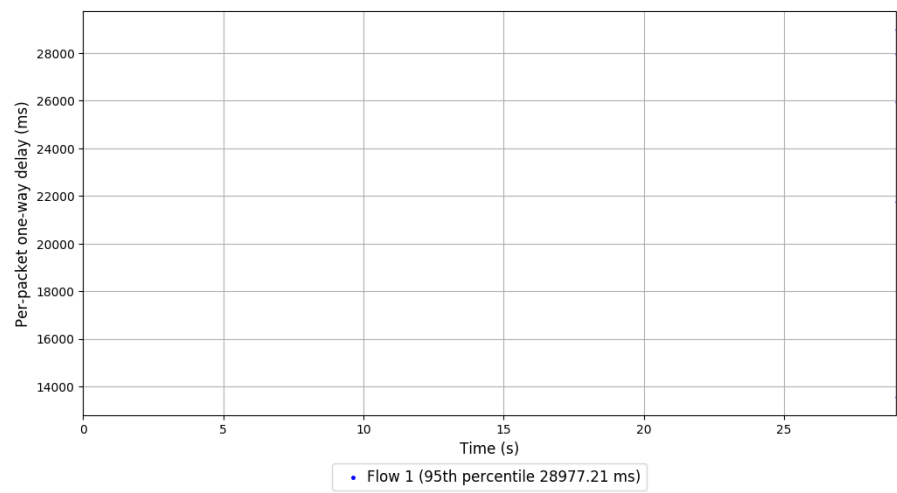
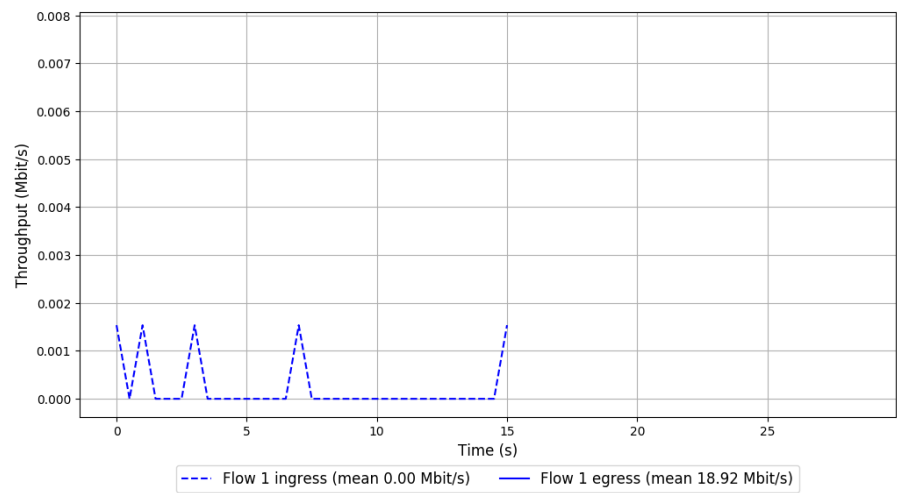


Run 10: Statistics of TCP Vegas

Start at: 2018-01-30 13:19:45

End at: 2018-01-30 13:20:15

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-30 10:59:54

End at: 2018-01-30 11:00:24

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.17 Mbit/s

95th percentile per-packet one-way delay: 262.754 ms

Loss rate: 5.59%

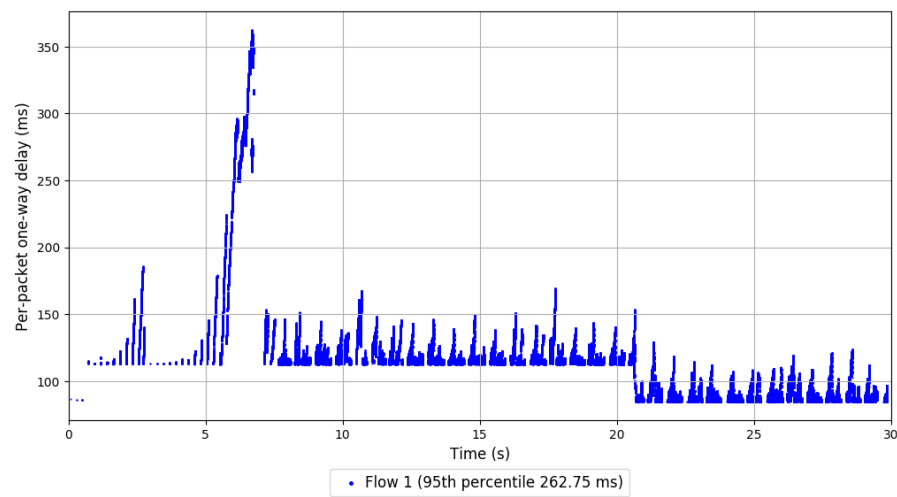
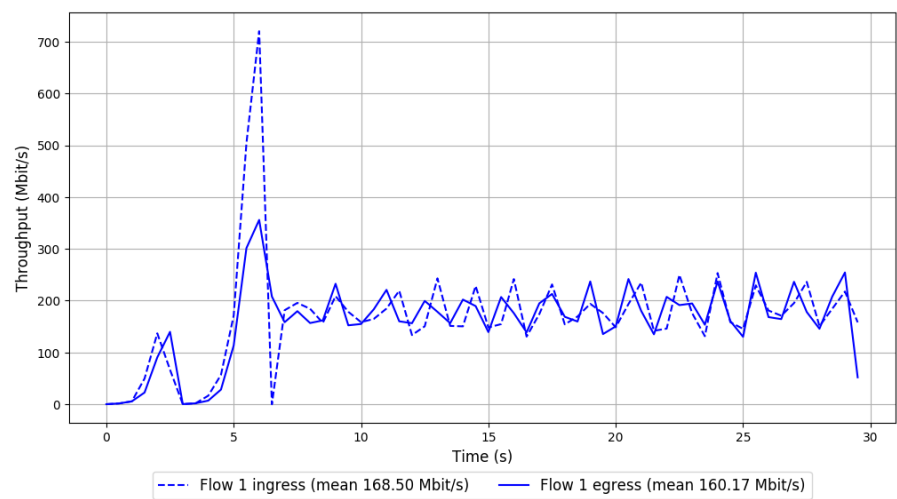
-- Flow 1:

Average throughput: 160.17 Mbit/s

95th percentile per-packet one-way delay: 262.754 ms

Loss rate: 5.59%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-30 11:14:21

End at: 2018-01-30 11:14:51

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.83 Mbit/s

95th percentile per-packet one-way delay: 178.728 ms

Loss rate: 1.03%

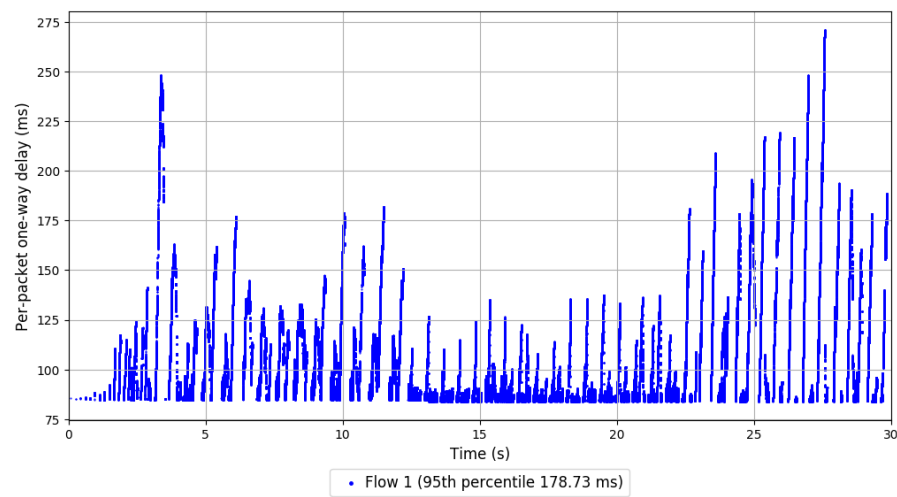
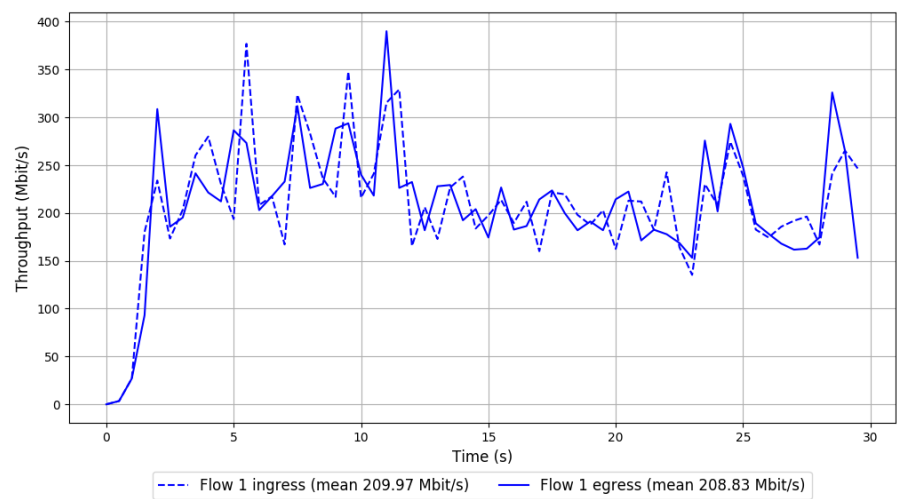
-- Flow 1:

Average throughput: 208.83 Mbit/s

95th percentile per-packet one-way delay: 178.728 ms

Loss rate: 1.03%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-30 11:29:08

End at: 2018-01-30 11:29:38

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.25 Mbit/s

95th percentile per-packet one-way delay: 182.293 ms

Loss rate: 4.44%

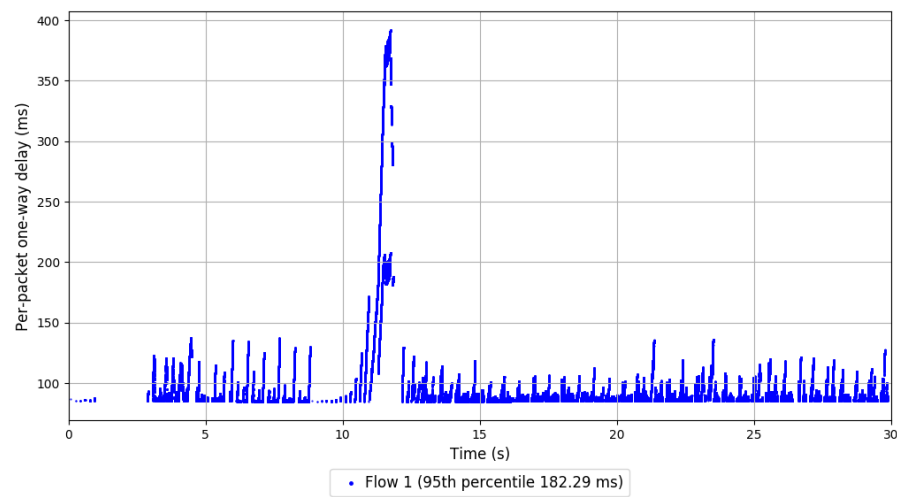
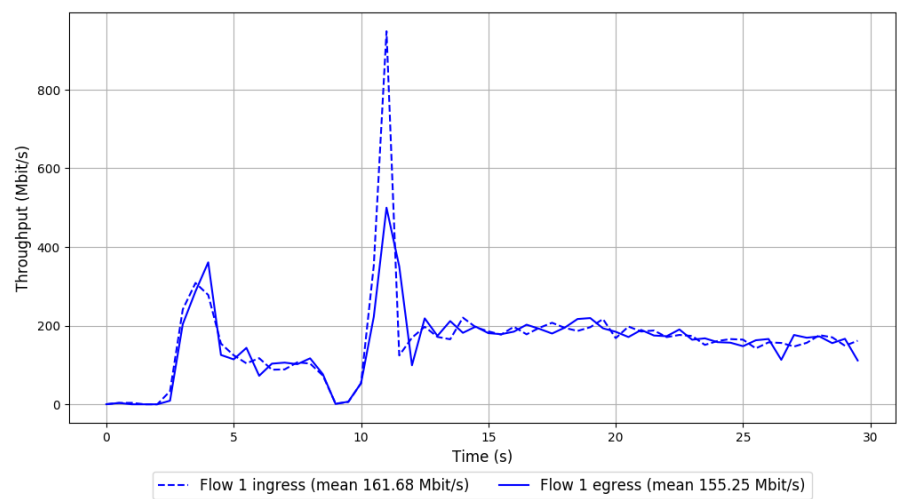
-- Flow 1:

Average throughput: 155.25 Mbit/s

95th percentile per-packet one-way delay: 182.293 ms

Loss rate: 4.44%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-30 11:43:52

End at: 2018-01-30 11:44:22

Below is generated by plot.py at 2018-01-30 16:25:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.83 Mbit/s

95th percentile per-packet one-way delay: 278.962 ms

Loss rate: 6.34%

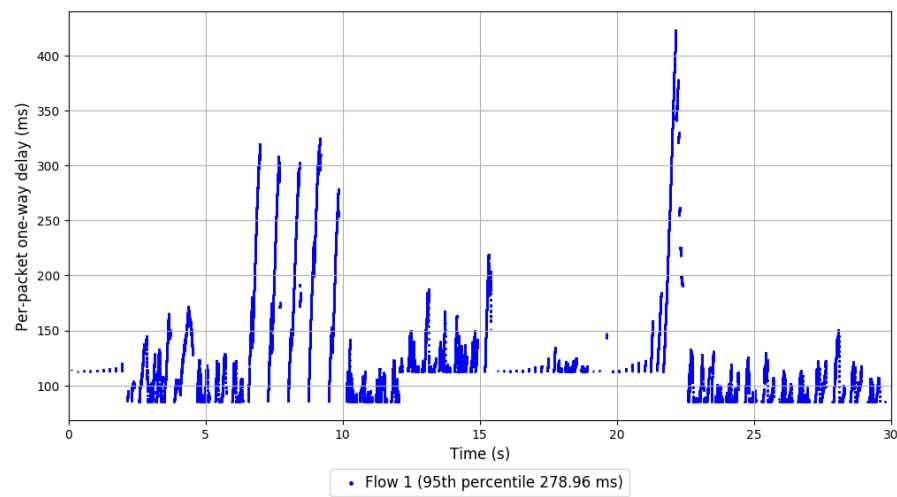
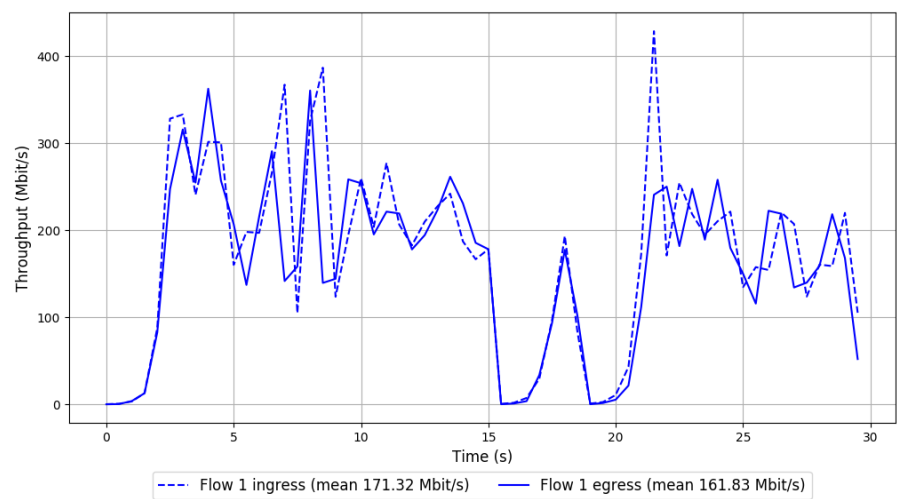
-- Flow 1:

Average throughput: 161.83 Mbit/s

95th percentile per-packet one-way delay: 278.962 ms

Loss rate: 6.34%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-30 11:58:44

End at: 2018-01-30 11:59:14

Below is generated by plot.py at 2018-01-30 16:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.26 Mbit/s

95th percentile per-packet one-way delay: 167.853 ms

Loss rate: 1.29%

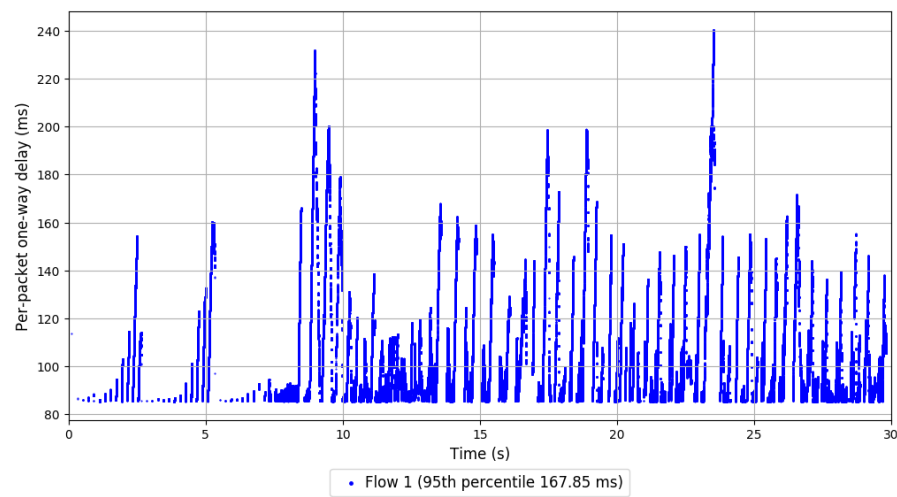
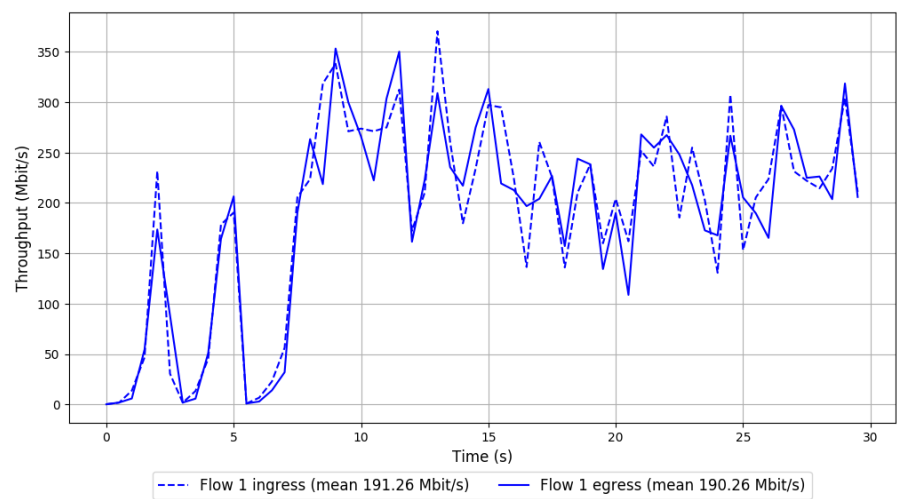
-- Flow 1:

Average throughput: 190.26 Mbit/s

95th percentile per-packet one-way delay: 167.853 ms

Loss rate: 1.29%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-30 12:13:20

End at: 2018-01-30 12:13:50

Below is generated by plot.py at 2018-01-30 16:26:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.32 Mbit/s

95th percentile per-packet one-way delay: 203.287 ms

Loss rate: 2.91%

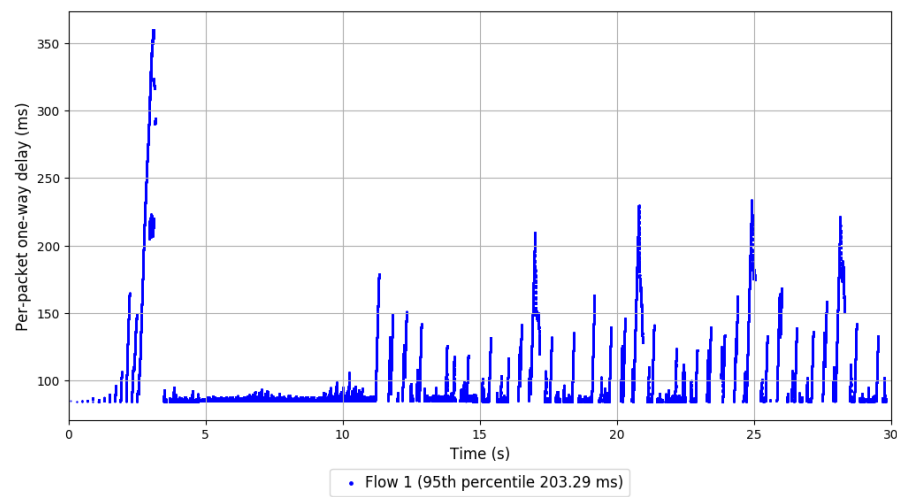
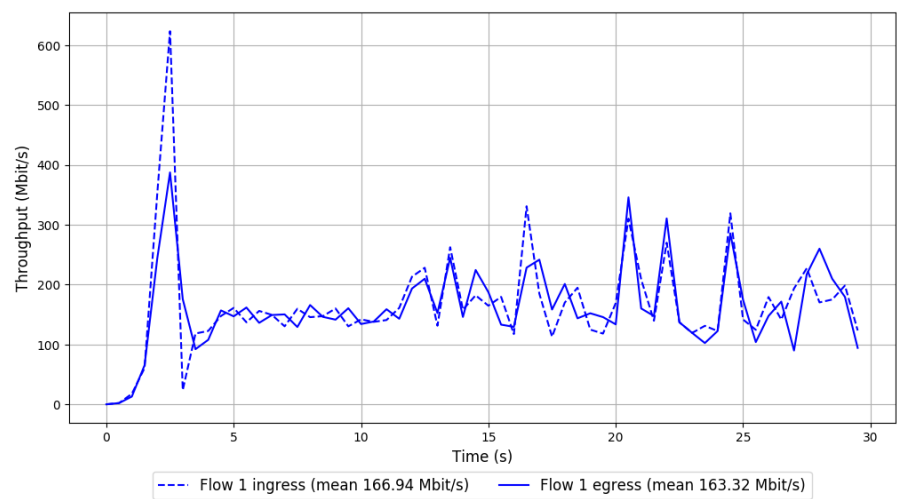
-- Flow 1:

Average throughput: 163.32 Mbit/s

95th percentile per-packet one-way delay: 203.287 ms

Loss rate: 2.91%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-30 12:27:54

End at: 2018-01-30 12:28:24

Below is generated by plot.py at 2018-01-30 16:27:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.00 Mbit/s

95th percentile per-packet one-way delay: 168.294 ms

Loss rate: 4.23%

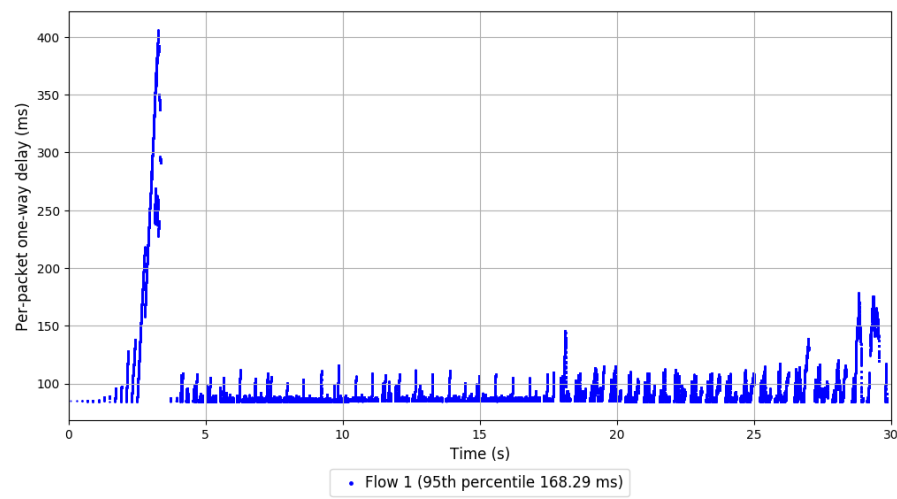
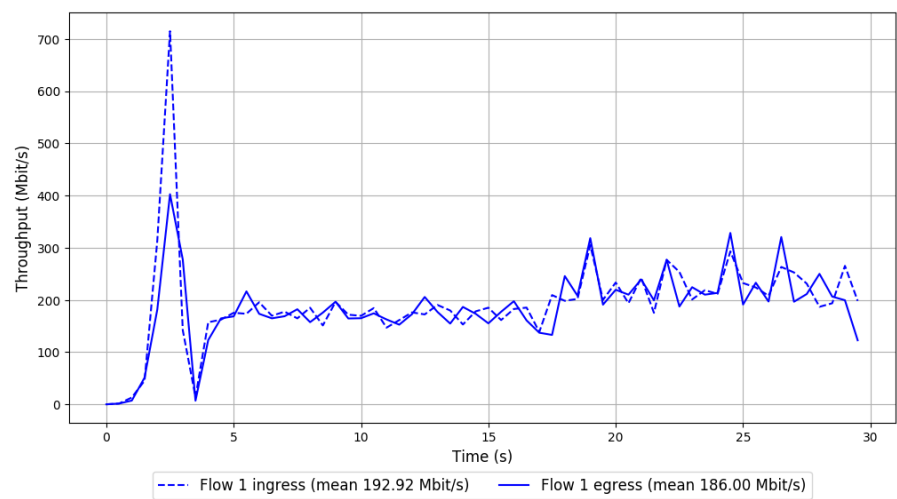
-- Flow 1:

Average throughput: 186.00 Mbit/s

95th percentile per-packet one-way delay: 168.294 ms

Loss rate: 4.23%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-30 12:42:30

End at: 2018-01-30 12:43:00

Below is generated by plot.py at 2018-01-30 16:28:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.49 Mbit/s

95th percentile per-packet one-way delay: 185.663 ms

Loss rate: 4.23%

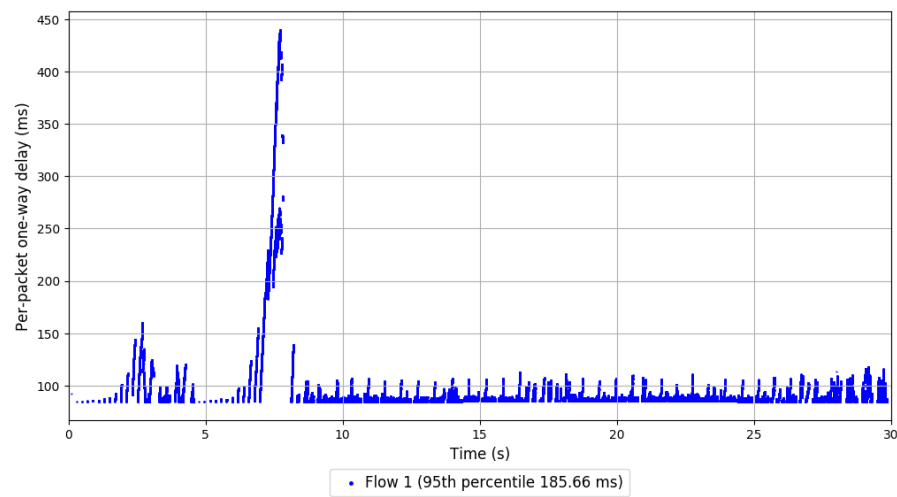
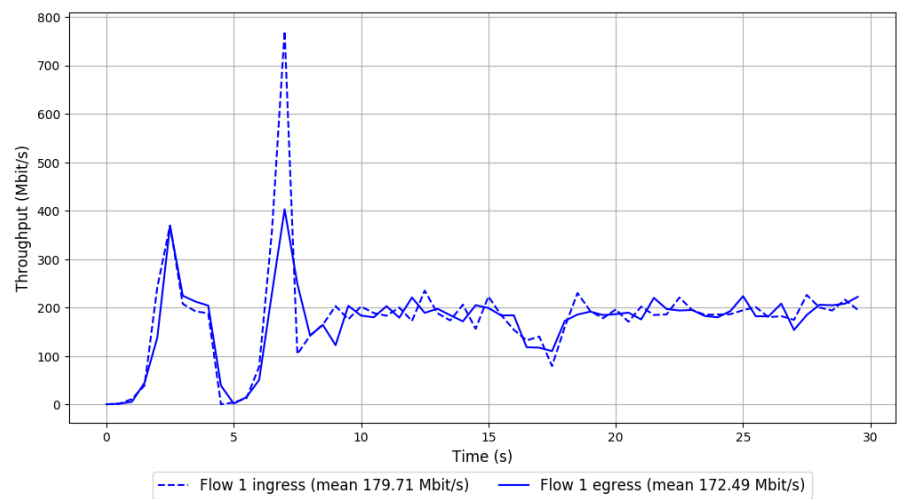
-- Flow 1:

Average throughput: 172.49 Mbit/s

95th percentile per-packet one-way delay: 185.663 ms

Loss rate: 4.23%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-30 12:57:22

End at: 2018-01-30 12:57:53

Below is generated by plot.py at 2018-01-30 16:28:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.25 Mbit/s

95th percentile per-packet one-way delay: 195.929 ms

Loss rate: 0.70%

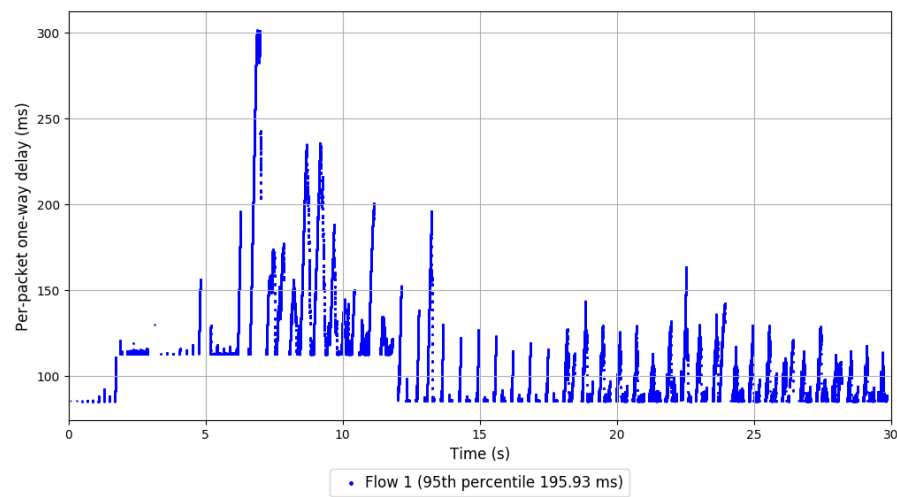
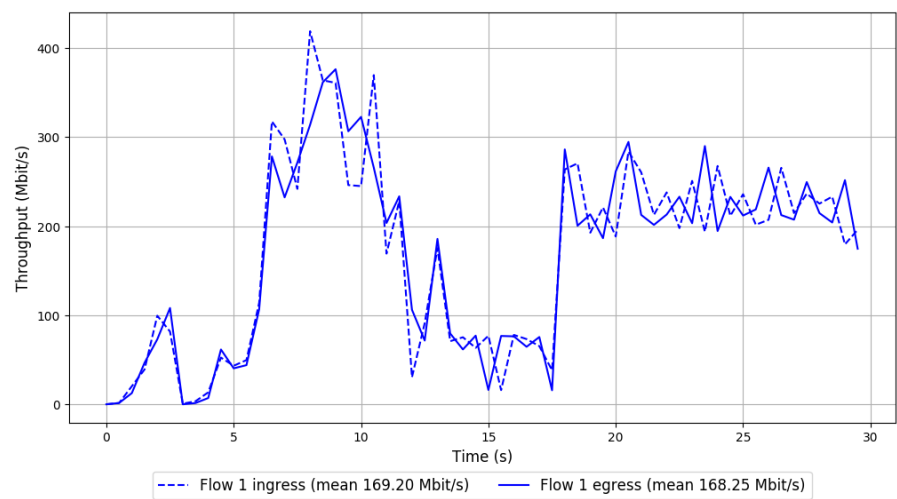
-- Flow 1:

Average throughput: 168.25 Mbit/s

95th percentile per-packet one-way delay: 195.929 ms

Loss rate: 0.70%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-30 13:11:51

End at: 2018-01-30 13:12:21

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.33 Mbit/s

95th percentile per-packet one-way delay: 160.205 ms

Loss rate: 2.89%

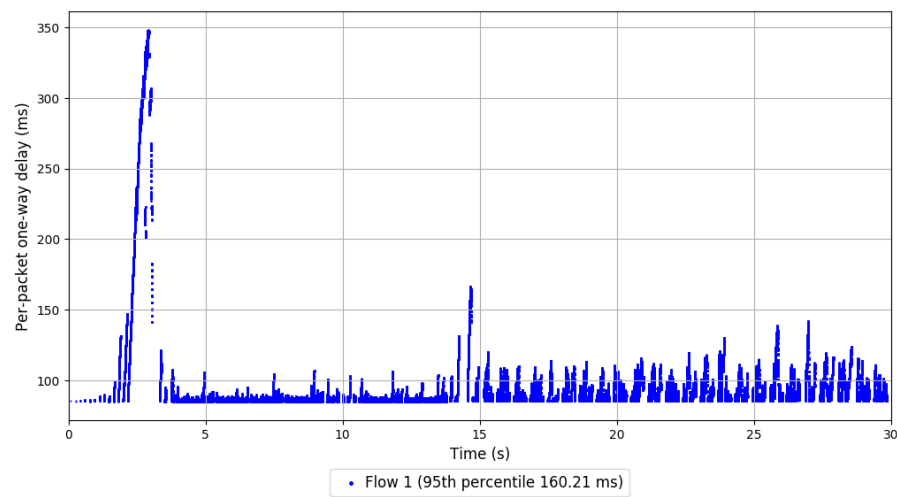
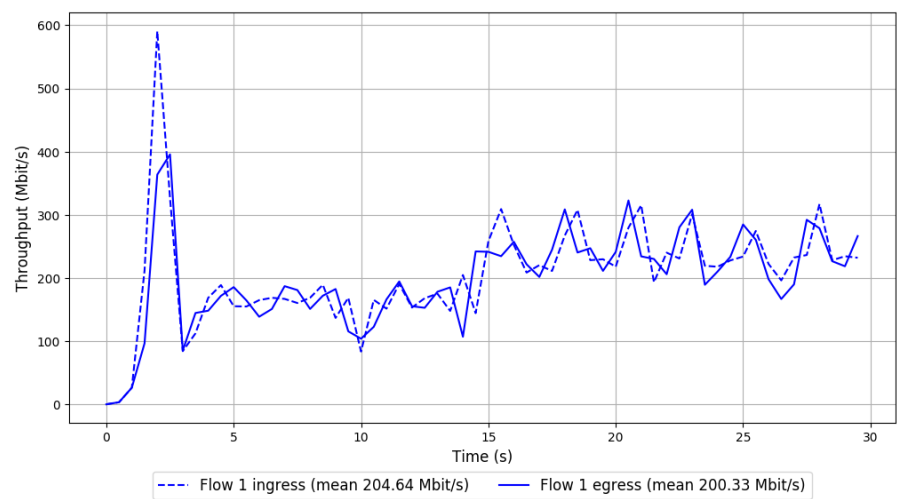
-- Flow 1:

Average throughput: 200.33 Mbit/s

95th percentile per-packet one-way delay: 160.205 ms

Loss rate: 2.89%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-30 11:03:32

End at: 2018-01-30 11:04:02

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 85.116 ms

Loss rate: 0.02%

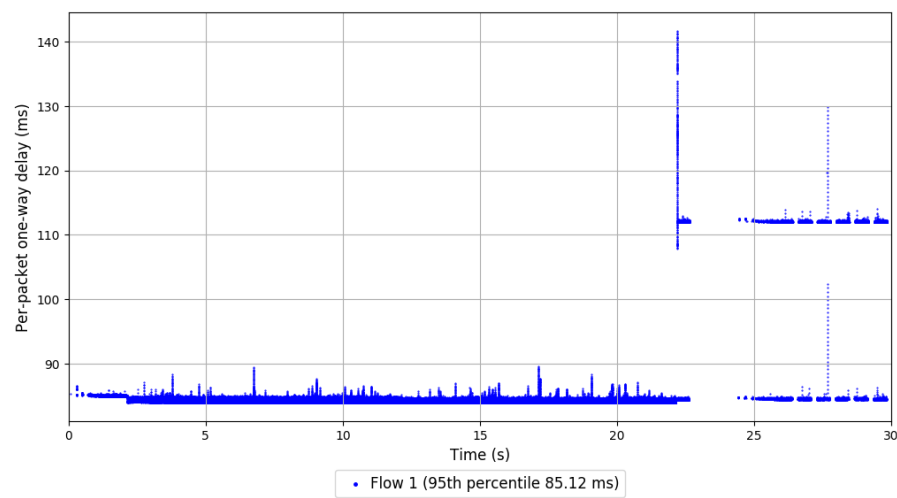
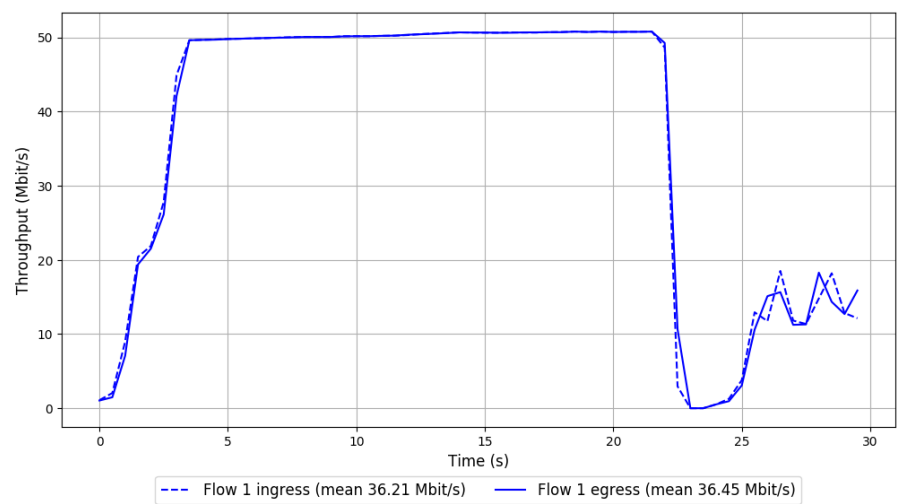
-- Flow 1:

Average throughput: 36.45 Mbit/s

95th percentile per-packet one-way delay: 85.116 ms

Loss rate: 0.02%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-30 11:18:04

End at: 2018-01-30 11:18:34

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.60 Mbit/s

95th percentile per-packet one-way delay: 111.789 ms

Loss rate: 0.89%

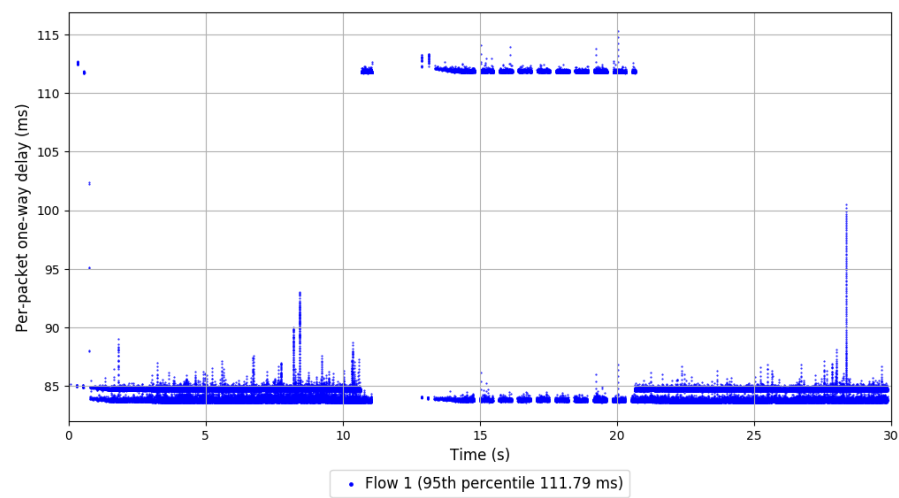
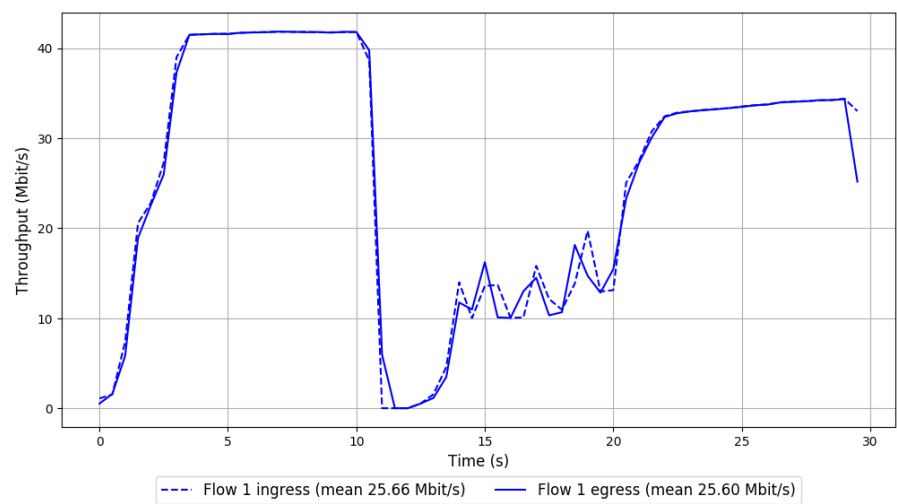
-- Flow 1:

Average throughput: 25.60 Mbit/s

95th percentile per-packet one-way delay: 111.789 ms

Loss rate: 0.89%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-30 11:32:46

End at: 2018-01-30 11:33:16

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.08 Mbit/s

95th percentile per-packet one-way delay: 85.658 ms

Loss rate: 0.46%

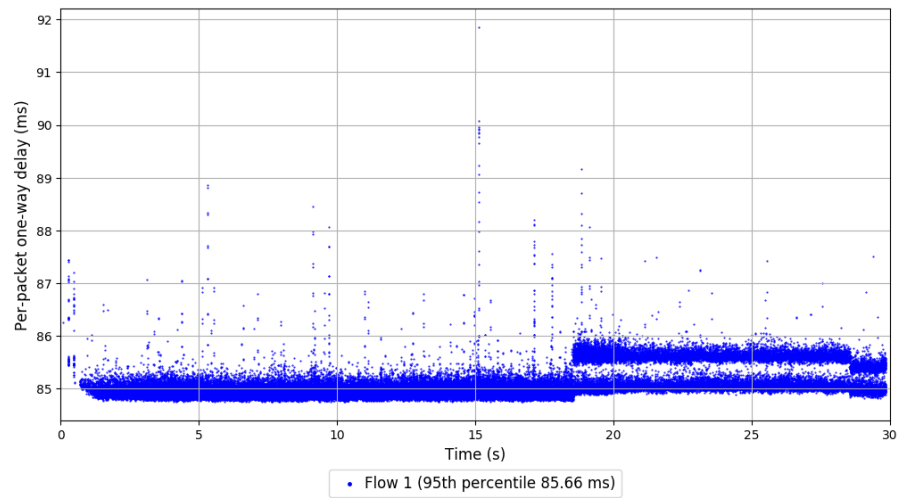
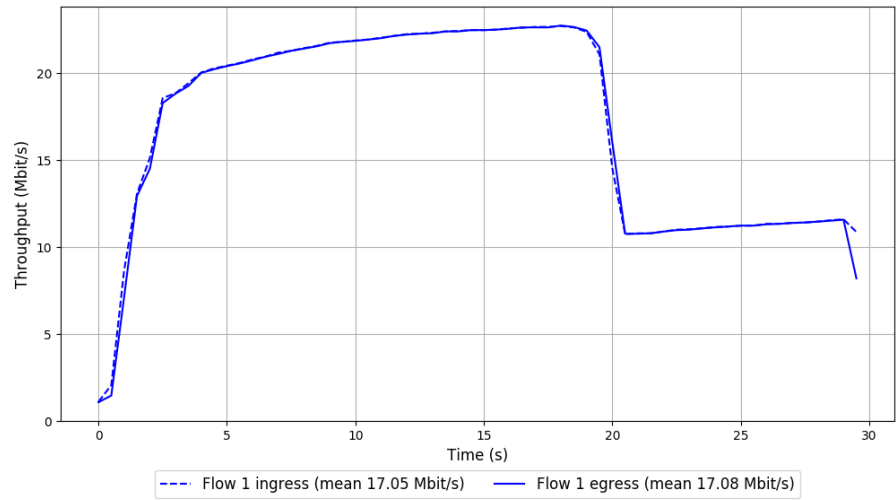
-- Flow 1:

Average throughput: 17.08 Mbit/s

95th percentile per-packet one-way delay: 85.658 ms

Loss rate: 0.46%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-30 11:47:34

End at: 2018-01-30 11:48:04

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.07 Mbit/s

95th percentile per-packet one-way delay: 112.522 ms

Loss rate: 0.36%

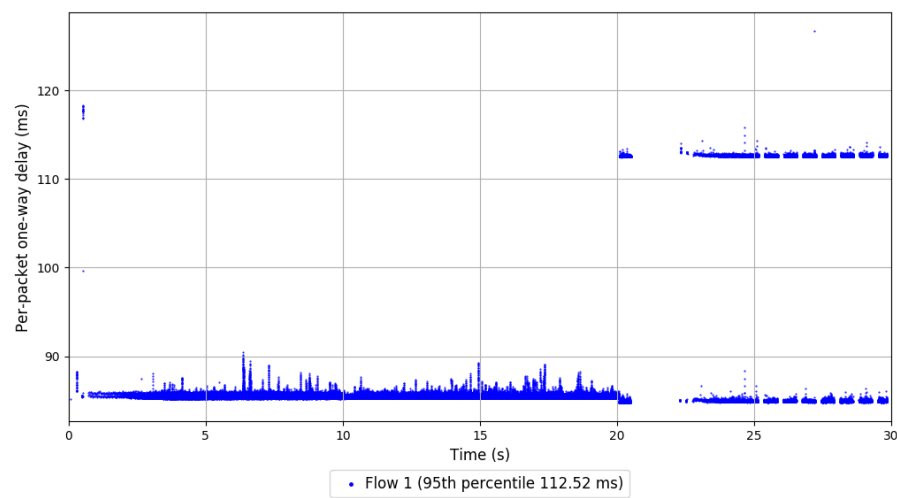
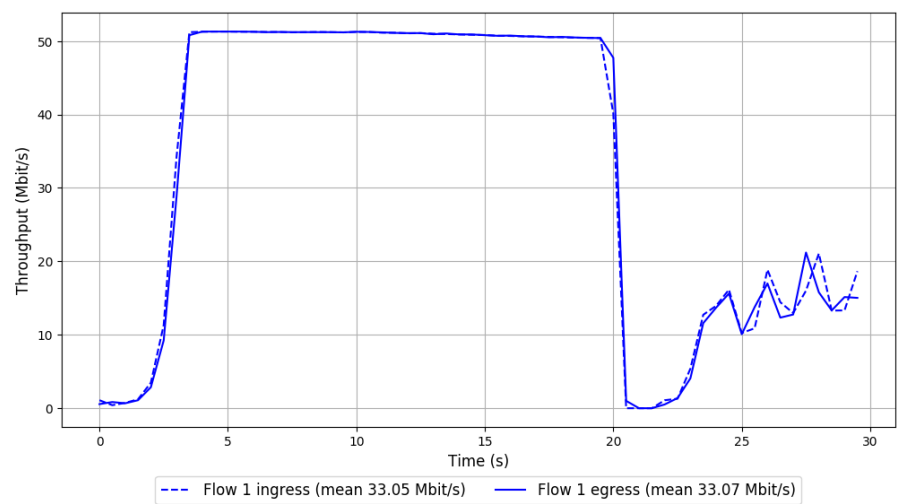
-- Flow 1:

Average throughput: 33.07 Mbit/s

95th percentile per-packet one-way delay: 112.522 ms

Loss rate: 0.36%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-30 12:02:30

End at: 2018-01-30 12:03:00

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 85.640 ms

Loss rate: 0.47%

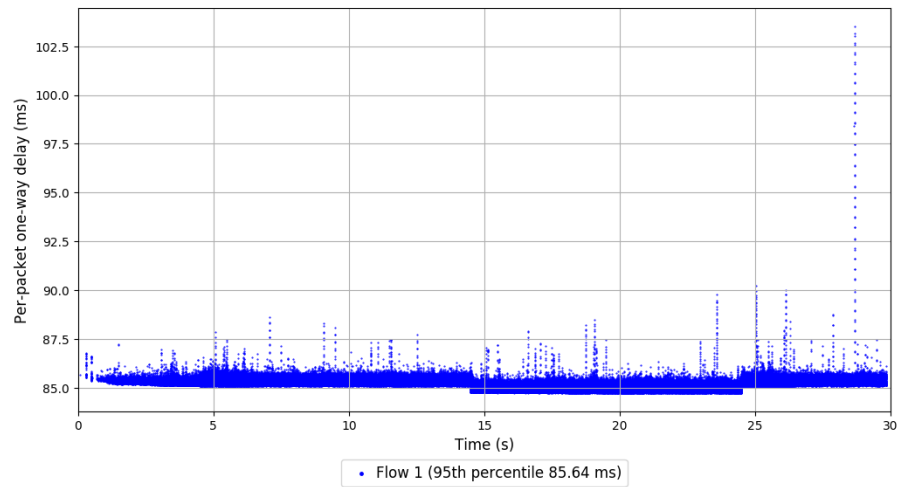
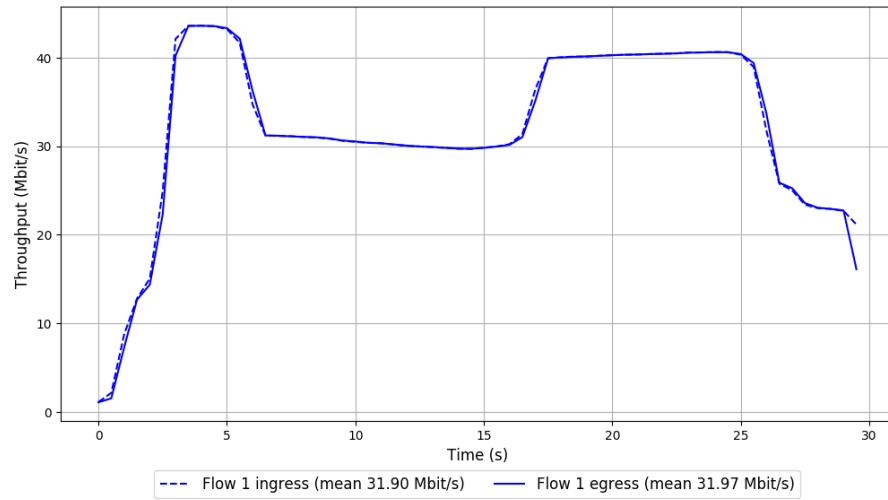
-- Flow 1:

Average throughput: 31.97 Mbit/s

95th percentile per-packet one-way delay: 85.640 ms

Loss rate: 0.47%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-30 12:17:00

End at: 2018-01-30 12:17:30

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 112.372 ms

Loss rate: 0.60%

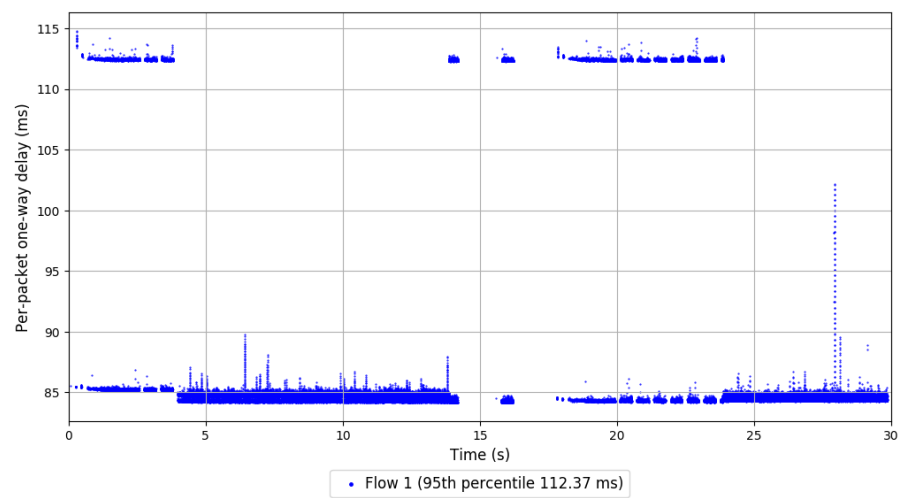
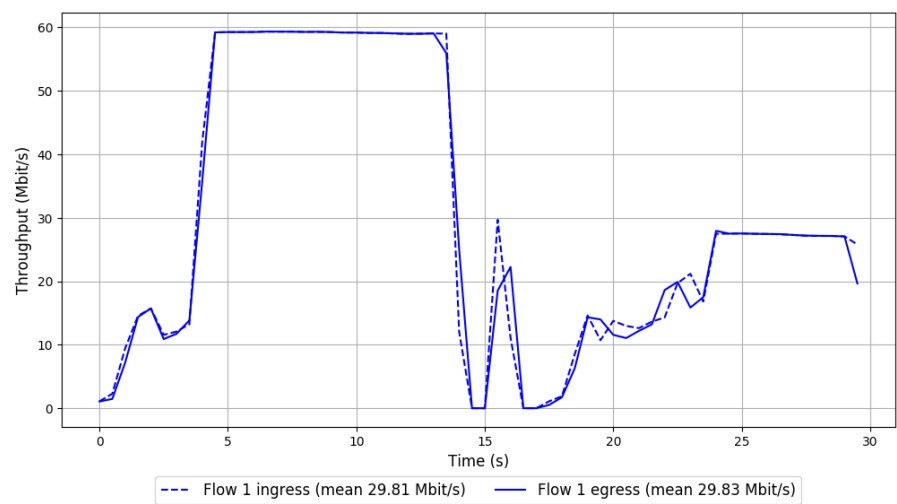
-- Flow 1:

Average throughput: 29.83 Mbit/s

95th percentile per-packet one-way delay: 112.372 ms

Loss rate: 0.60%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-30 12:31:36

End at: 2018-01-30 12:32:06

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.35 Mbit/s

95th percentile per-packet one-way delay: 84.649 ms

Loss rate: 0.80%

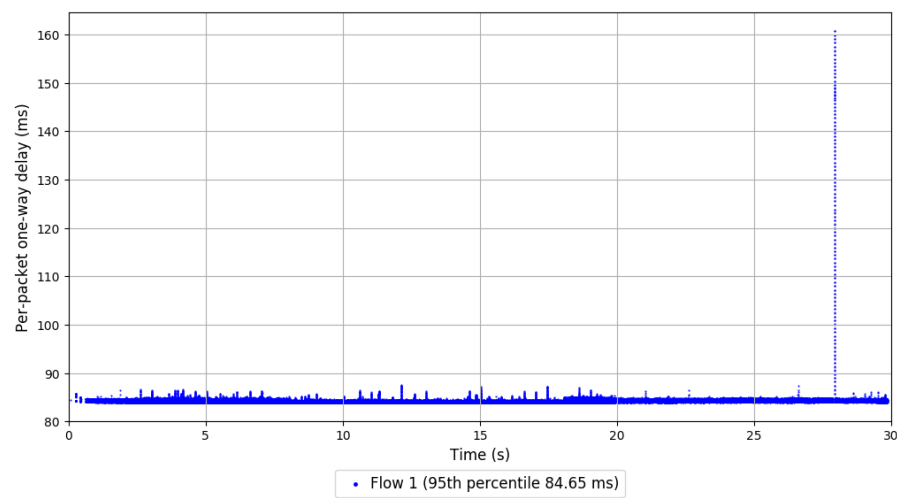
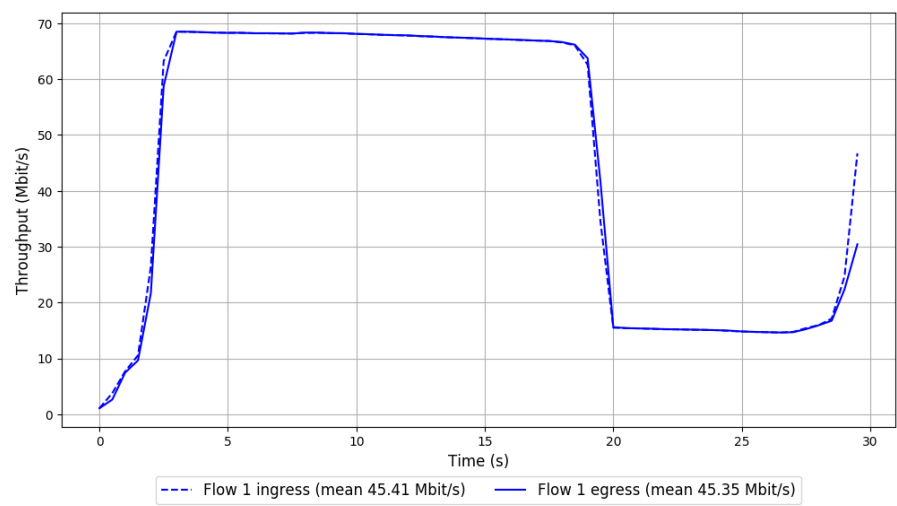
-- Flow 1:

Average throughput: 45.35 Mbit/s

95th percentile per-packet one-way delay: 84.649 ms

Loss rate: 0.80%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-30 12:46:12

End at: 2018-01-30 12:46:42

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.30 Mbit/s

95th percentile per-packet one-way delay: 85.509 ms

Loss rate: 0.51%

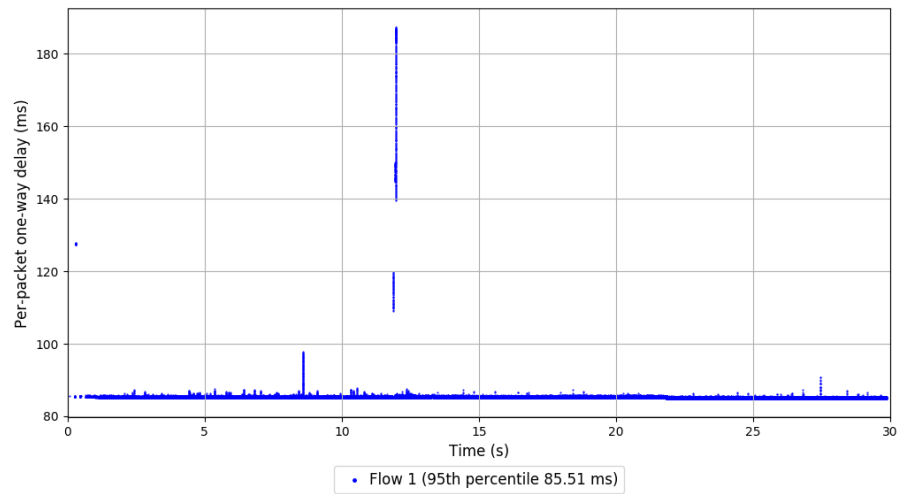
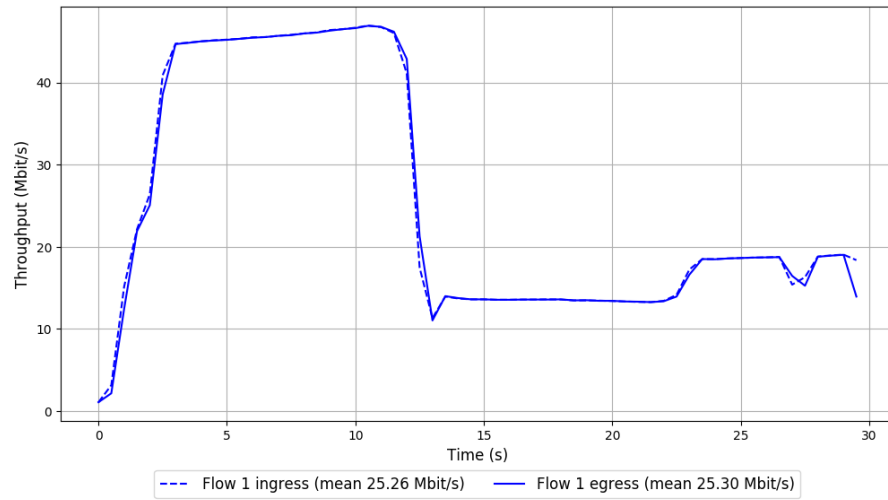
-- Flow 1:

Average throughput: 25.30 Mbit/s

95th percentile per-packet one-way delay: 85.509 ms

Loss rate: 0.51%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-30 13:01:04

End at: 2018-01-30 13:01:34

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 112.940 ms

Loss rate: 0.86%

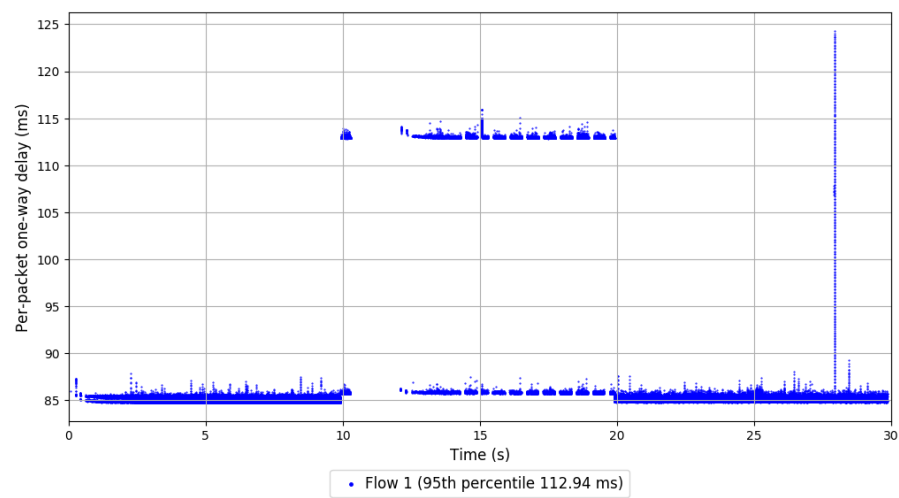
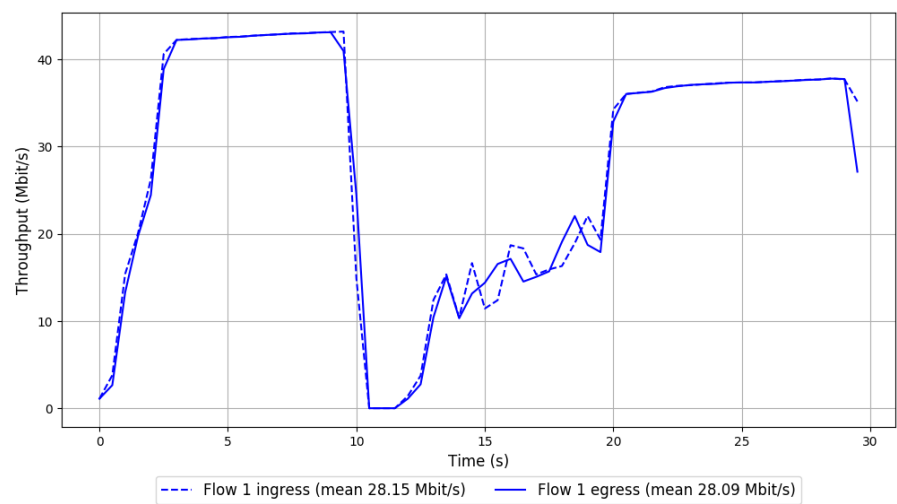
-- Flow 1:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 112.940 ms

Loss rate: 0.86%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-30 13:15:34

End at: 2018-01-30 13:16:04

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 113.096 ms

Loss rate: 0.39%

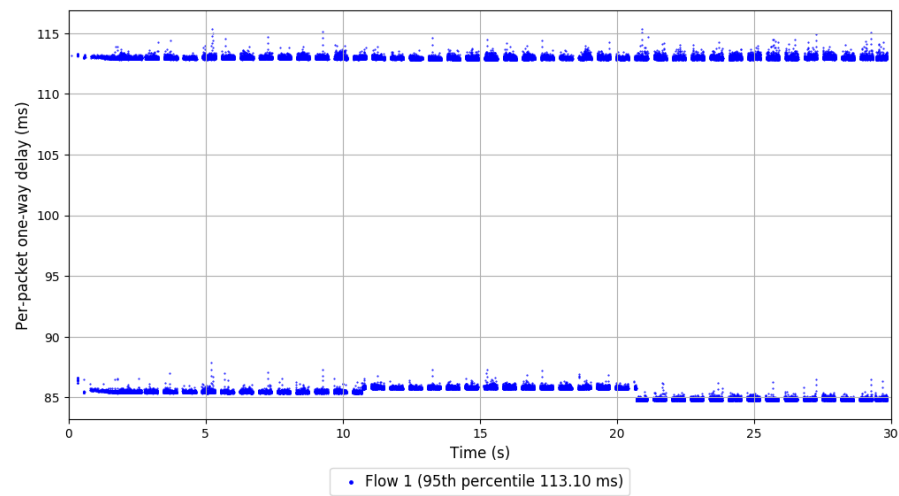
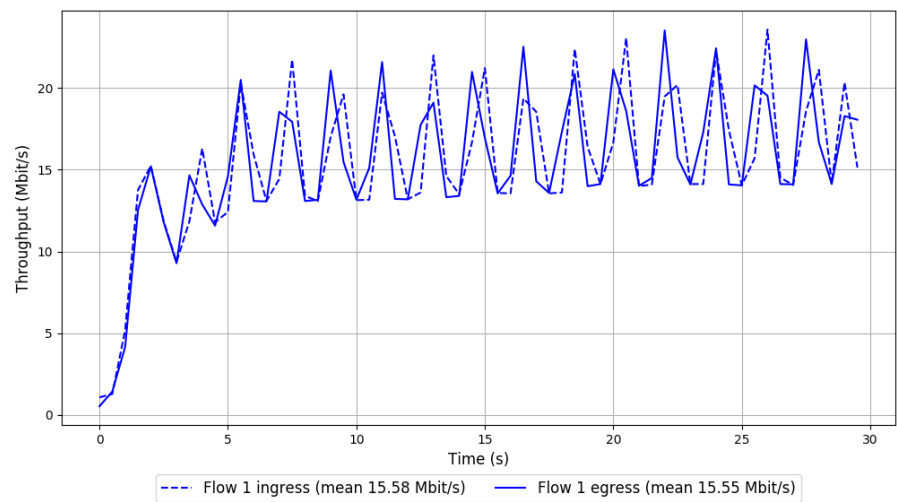
-- Flow 1:

Average throughput: 15.55 Mbit/s

95th percentile per-packet one-way delay: 113.096 ms

Loss rate: 0.39%

Run 10: Report of Copa — Data Link

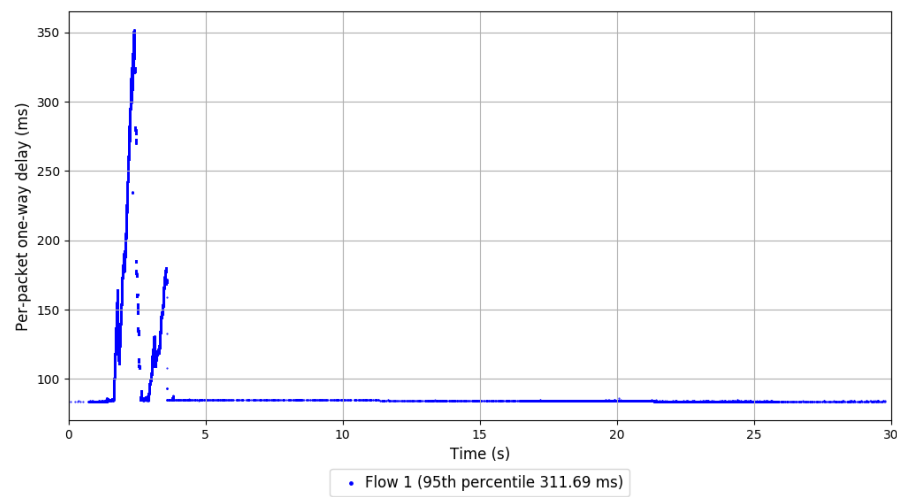
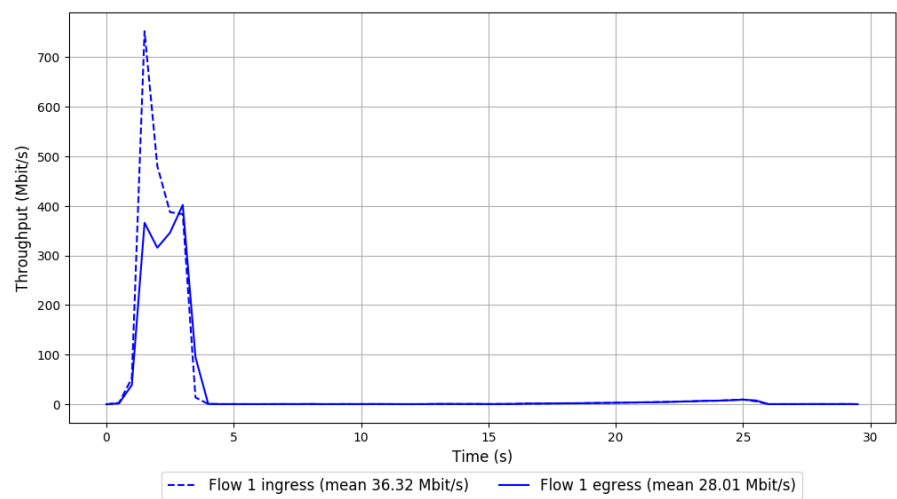


```
Run 1: Statistics of FillP

Start at: 2018-01-30 11:10:23
End at: 2018-01-30 11:10:53

# Below is generated by plot.py at 2018-01-30 16:29:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 311.687 ms
Loss rate: 23.39%
-- Flow 1:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 311.687 ms
Loss rate: 23.39%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-30 11:24:56

End at: 2018-01-30 11:25:26

Below is generated by plot.py at 2018-01-30 16:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 346.135 ms

Loss rate: 19.51%

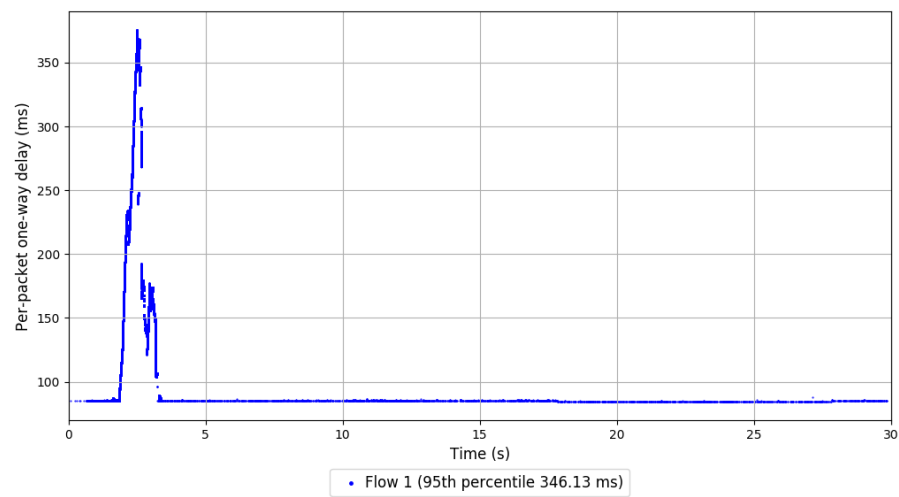
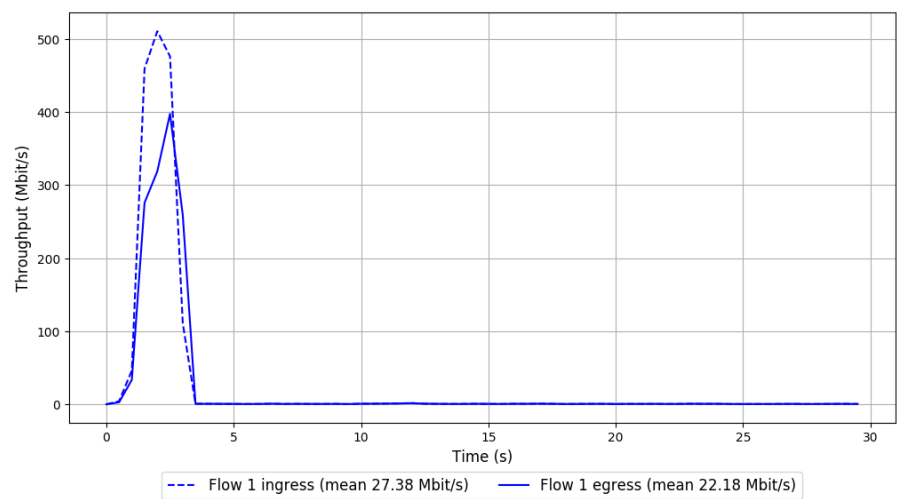
-- Flow 1:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 346.135 ms

Loss rate: 19.51%

Run 2: Report of FillP — Data Link

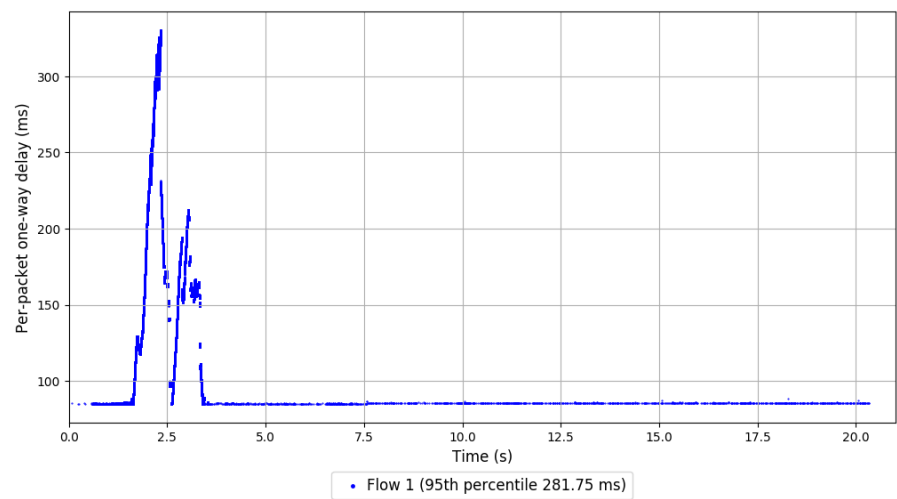
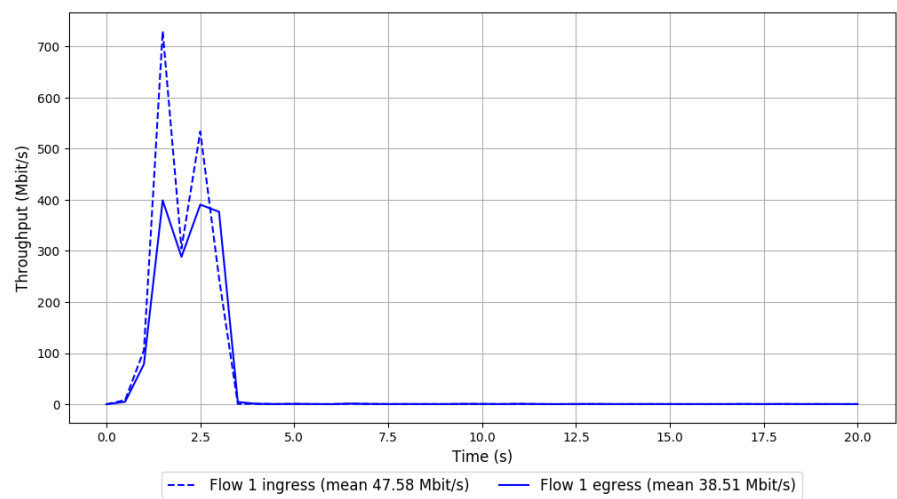


Run 3: Statistics of FillP

Start at: 2018-01-30 11:39:37

End at: 2018-01-30 11:40:07

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-30 11:54:32

End at: 2018-01-30 11:55:02

Below is generated by plot.py at 2018-01-30 16:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 296.634 ms

Loss rate: 17.38%

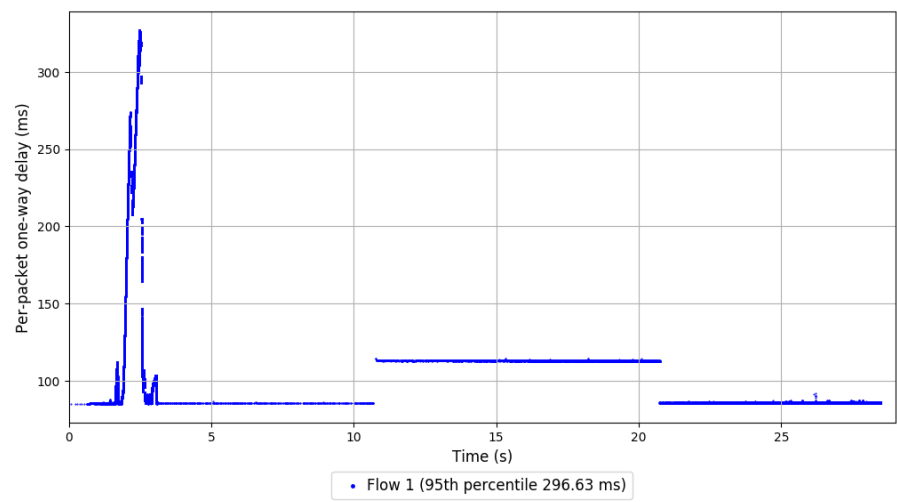
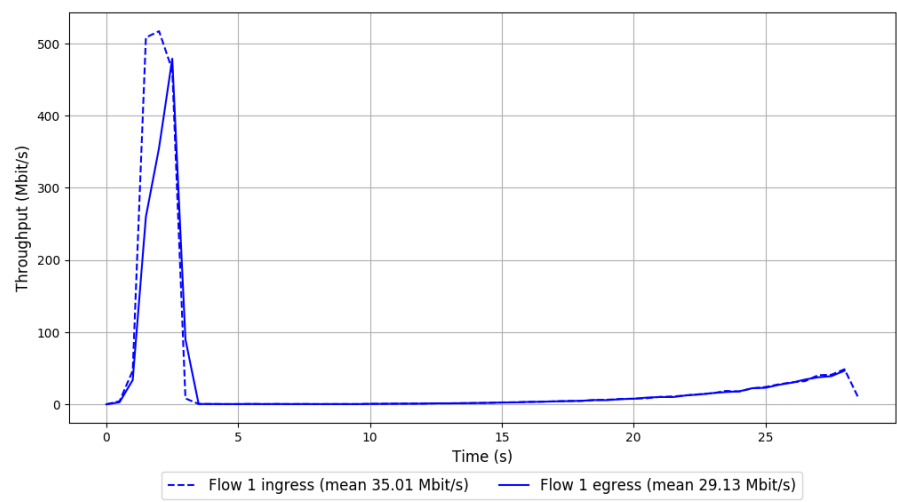
-- Flow 1:

Average throughput: 29.13 Mbit/s

95th percentile per-packet one-way delay: 296.634 ms

Loss rate: 17.38%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-30 12:09:22

End at: 2018-01-30 12:09:52

Below is generated by plot.py at 2018-01-30 16:30:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.57 Mbit/s

95th percentile per-packet one-way delay: 260.619 ms

Loss rate: 18.06%

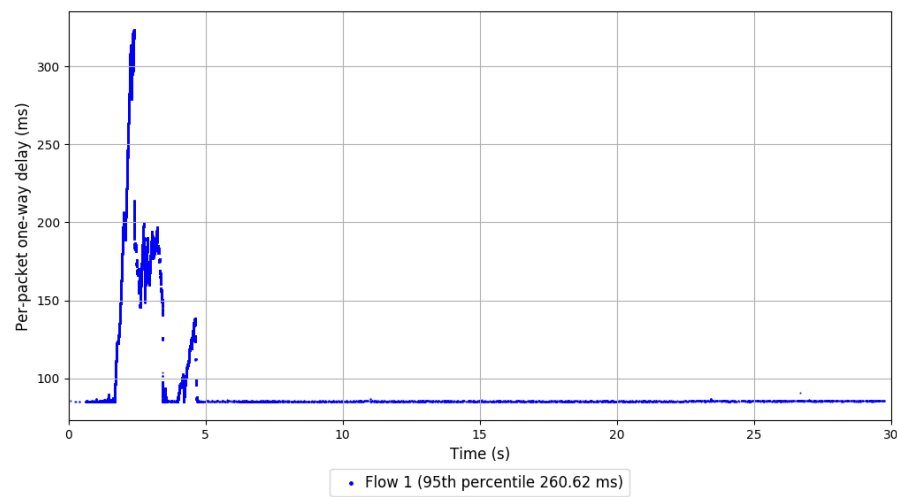
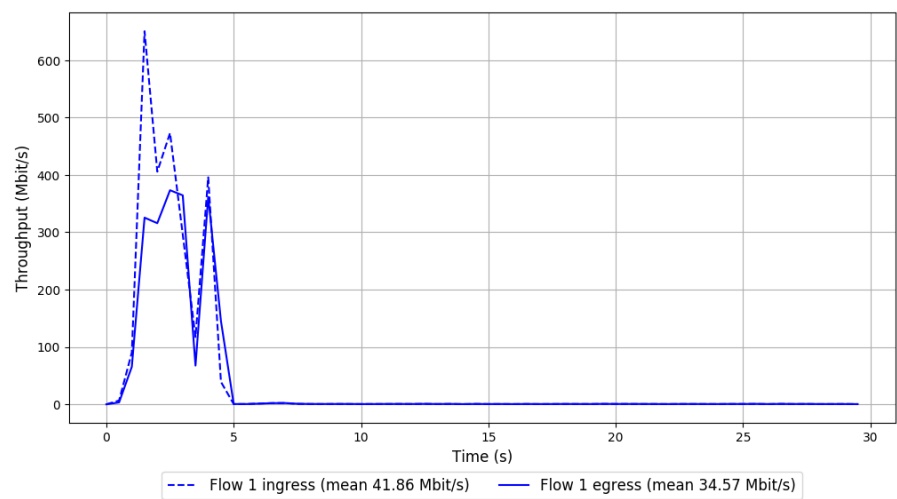
-- Flow 1:

Average throughput: 34.57 Mbit/s

95th percentile per-packet one-way delay: 260.619 ms

Loss rate: 18.06%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-30 12:23:48

End at: 2018-01-30 12:24:18

Below is generated by plot.py at 2018-01-30 16:30:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.41 Mbit/s

95th percentile per-packet one-way delay: 283.965 ms

Loss rate: 22.24%

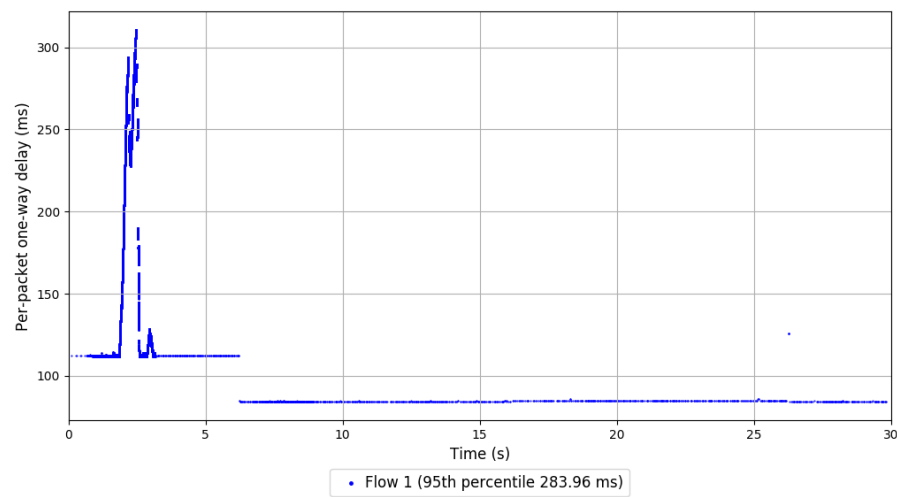
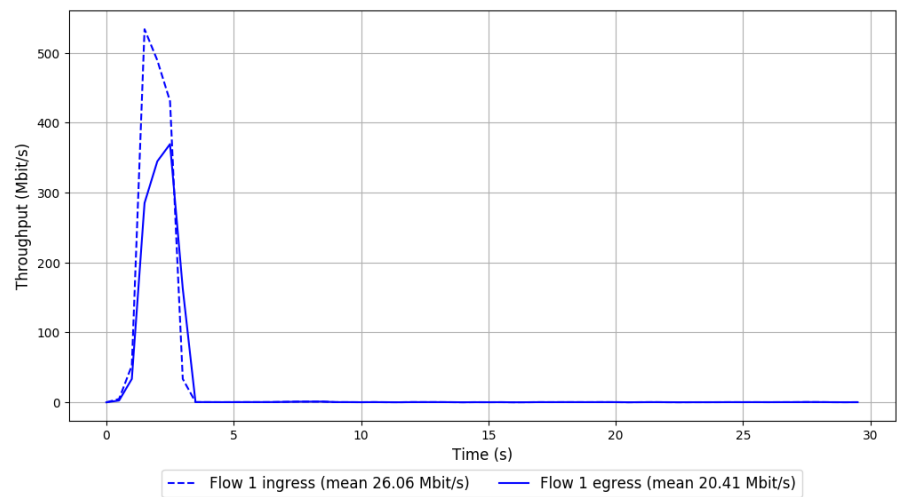
-- Flow 1:

Average throughput: 20.41 Mbit/s

95th percentile per-packet one-way delay: 283.965 ms

Loss rate: 22.24%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-30 12:38:20

End at: 2018-01-30 12:38:50

Below is generated by plot.py at 2018-01-30 16:30:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 274.800 ms

Loss rate: 19.26%

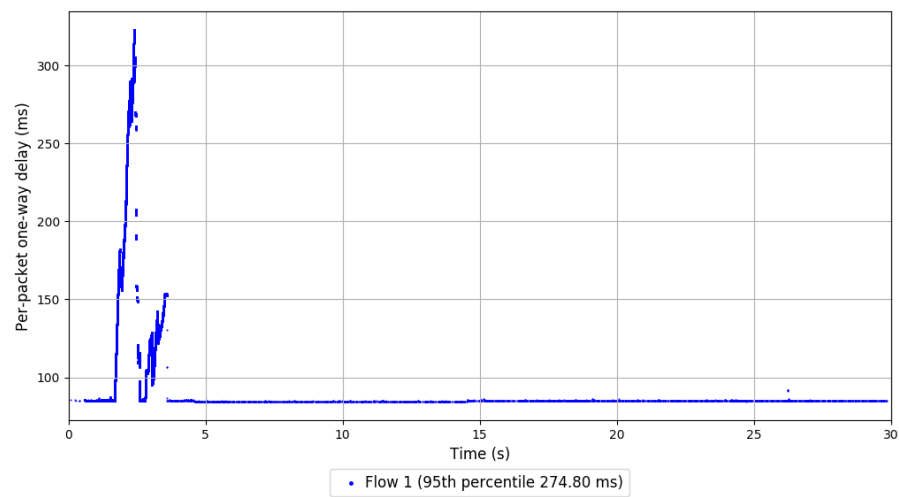
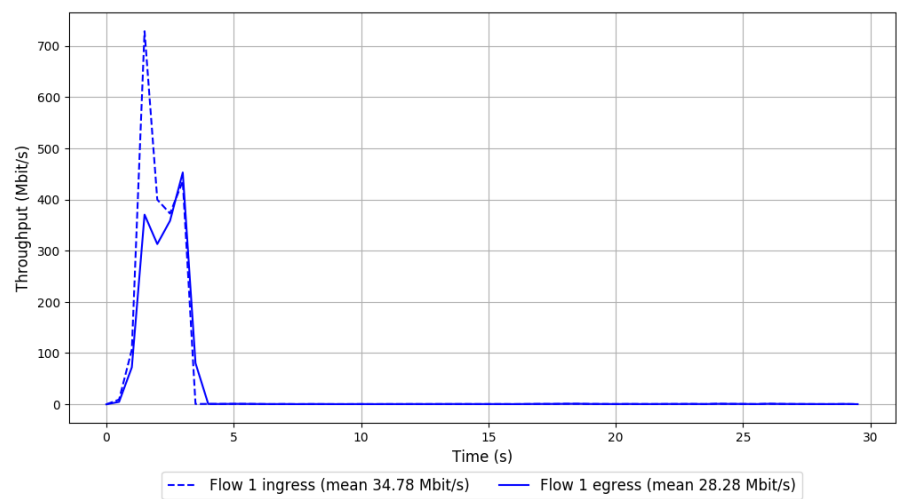
-- Flow 1:

Average throughput: 28.28 Mbit/s

95th percentile per-packet one-way delay: 274.800 ms

Loss rate: 19.26%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-30 12:53:12

End at: 2018-01-30 12:53:42

Below is generated by plot.py at 2018-01-30 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.46 Mbit/s

95th percentile per-packet one-way delay: 296.815 ms

Loss rate: 15.35%

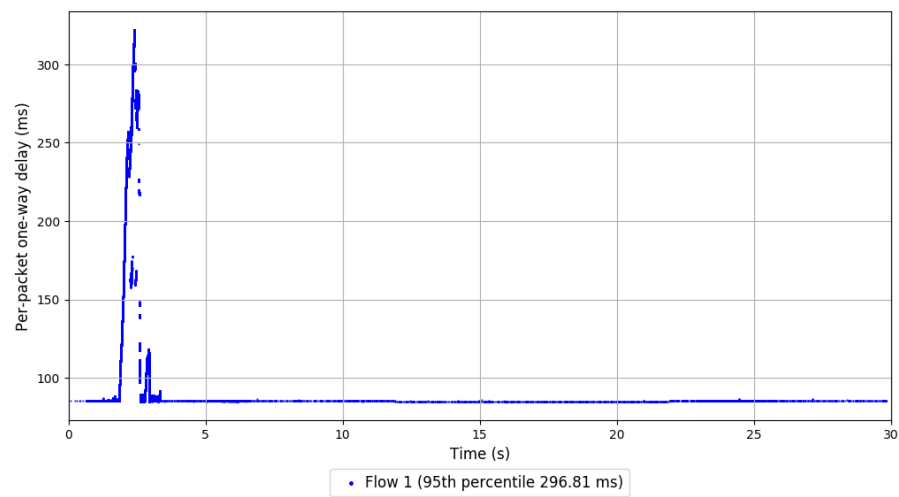
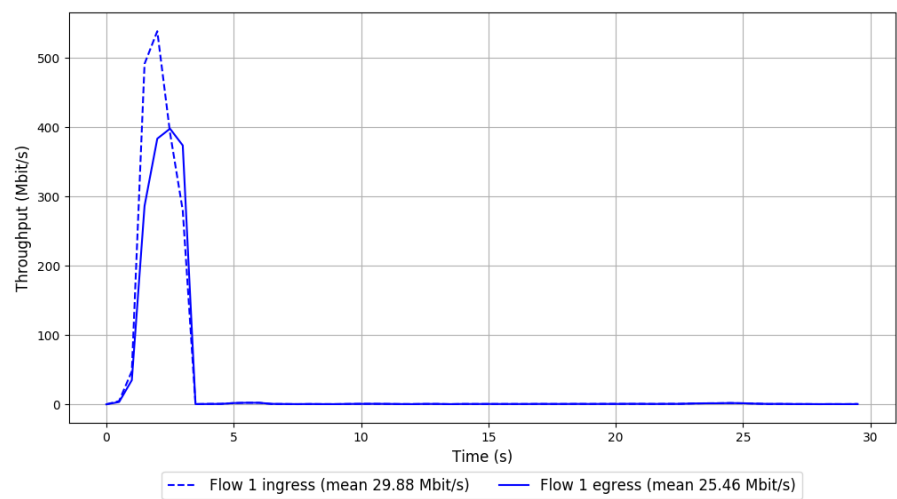
-- Flow 1:

Average throughput: 25.46 Mbit/s

95th percentile per-packet one-way delay: 296.815 ms

Loss rate: 15.35%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-30 13:07:49

End at: 2018-01-30 13:08:19

Below is generated by plot.py at 2018-01-30 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.70 Mbit/s

95th percentile per-packet one-way delay: 269.266 ms

Loss rate: 24.41%

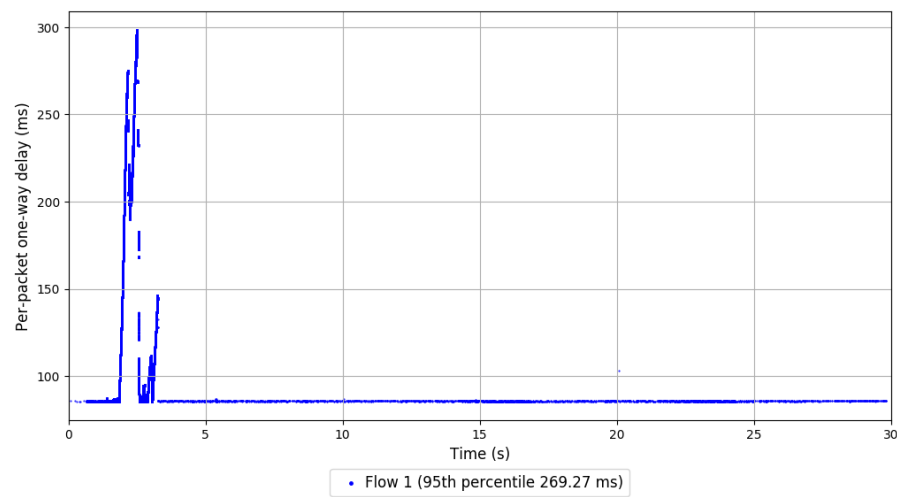
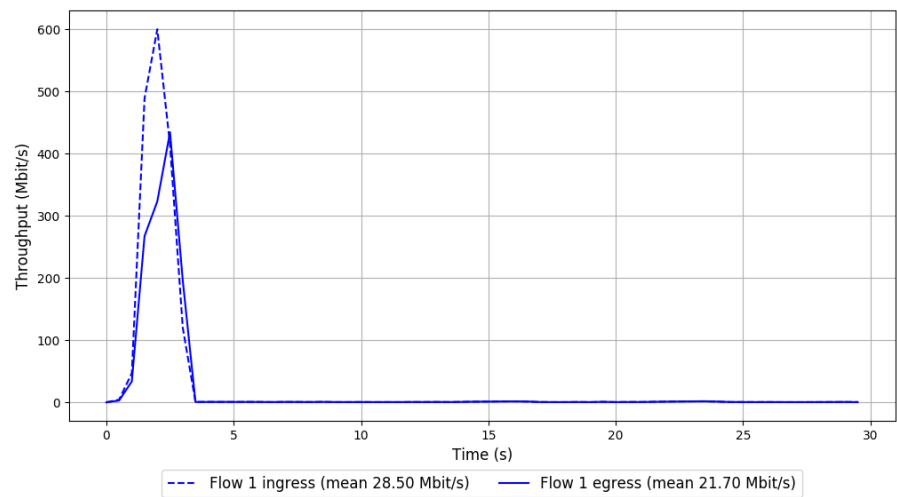
-- Flow 1:

Average throughput: 21.70 Mbit/s

95th percentile per-packet one-way delay: 269.266 ms

Loss rate: 24.41%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-30 13:22:21

End at: 2018-01-30 13:22:51

Below is generated by plot.py at 2018-01-30 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 293.003 ms

Loss rate: 24.79%

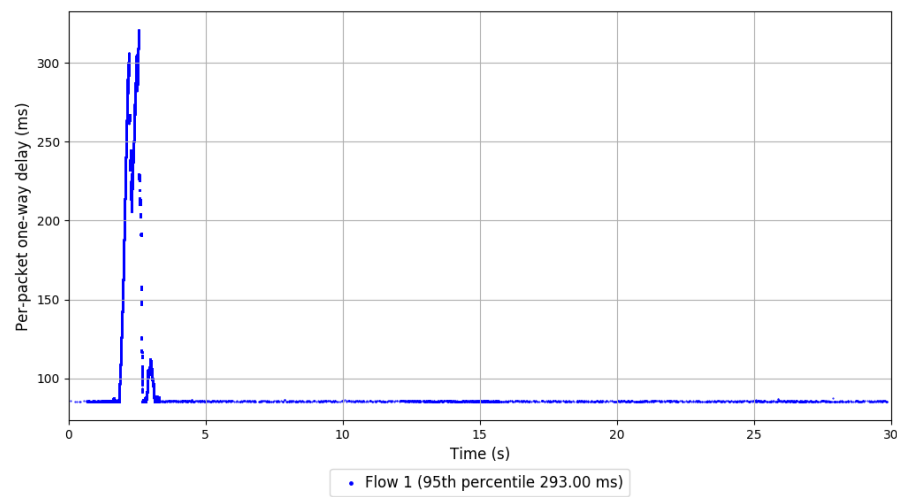
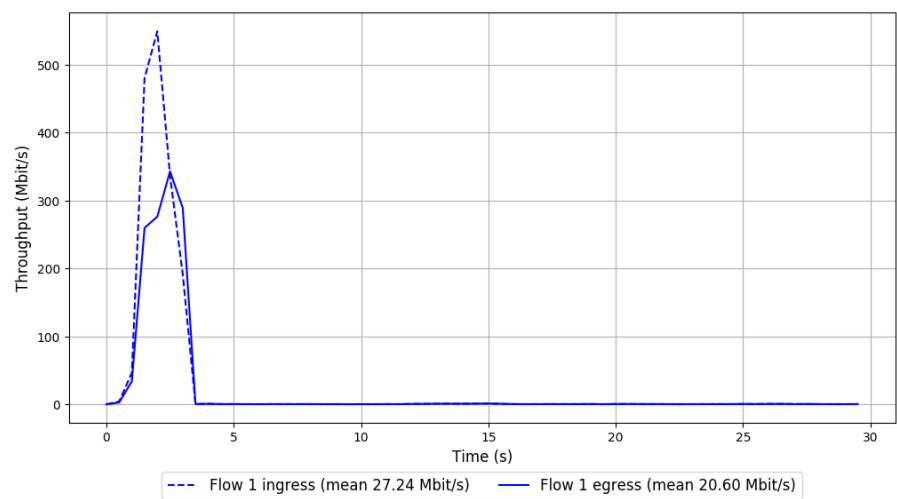
-- Flow 1:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 293.003 ms

Loss rate: 24.79%

Run 10: Report of FillP — Data Link

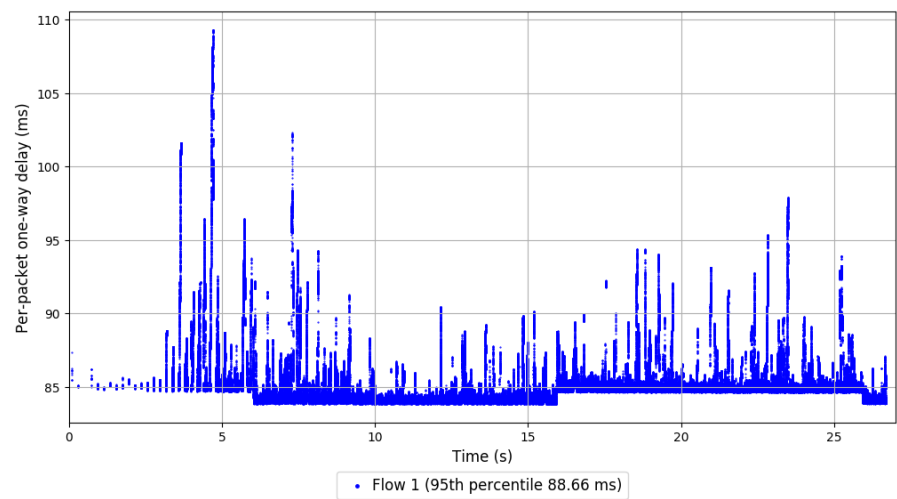
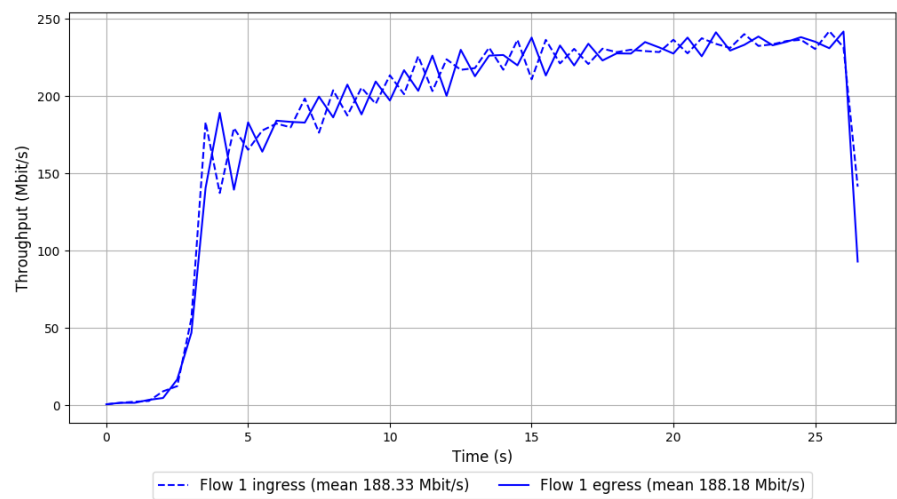


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-30 11:05:15
End at: 2018-01-30 11:05:45

# Below is generated by plot.py at 2018-01-30 16:32:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.18 Mbit/s
95th percentile per-packet one-way delay: 88.655 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 188.18 Mbit/s
95th percentile per-packet one-way delay: 88.655 ms
Loss rate: 0.84%
```

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

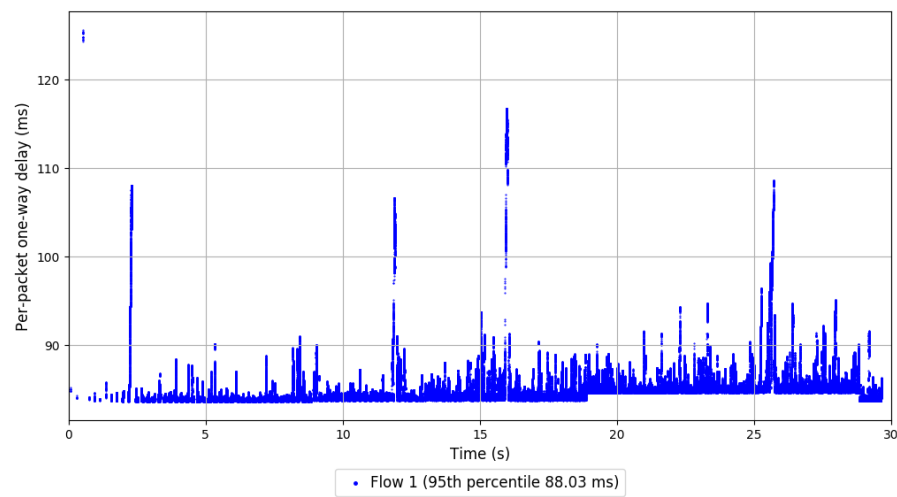
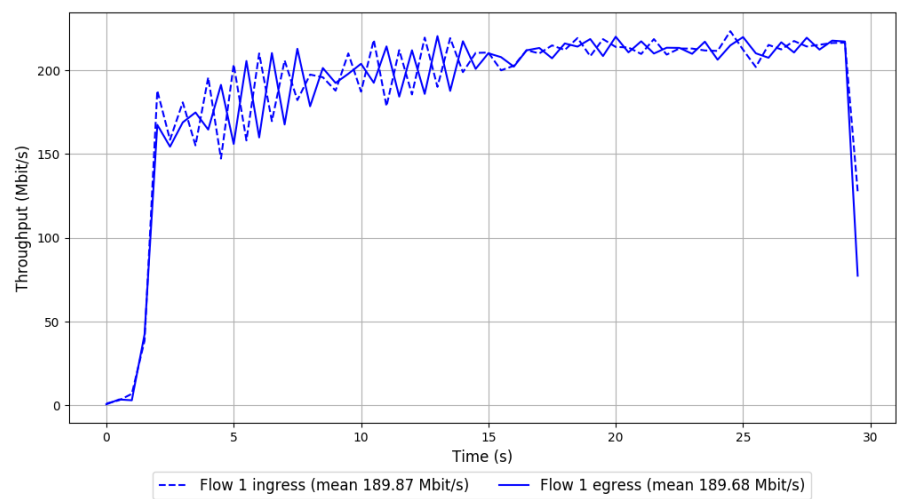


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-30 11:19:45
End at: 2018-01-30 11:20:15

# Below is generated by plot.py at 2018-01-30 16:33:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.68 Mbit/s
95th percentile per-packet one-way delay: 88.033 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 189.68 Mbit/s
95th percentile per-packet one-way delay: 88.033 ms
Loss rate: 0.77%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-30 11:34:28

End at: 2018-01-30 11:34:58

Below is generated by plot.py at 2018-01-30 16:33:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 89.879 ms

Loss rate: 1.09%

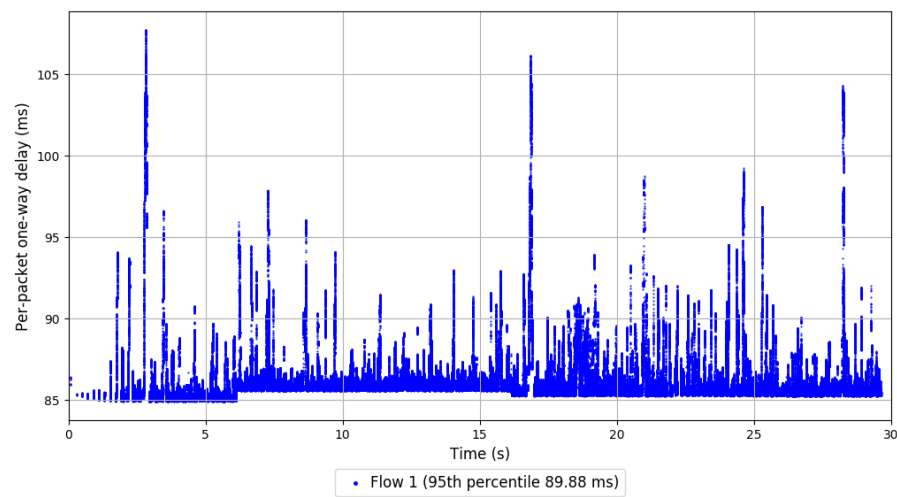
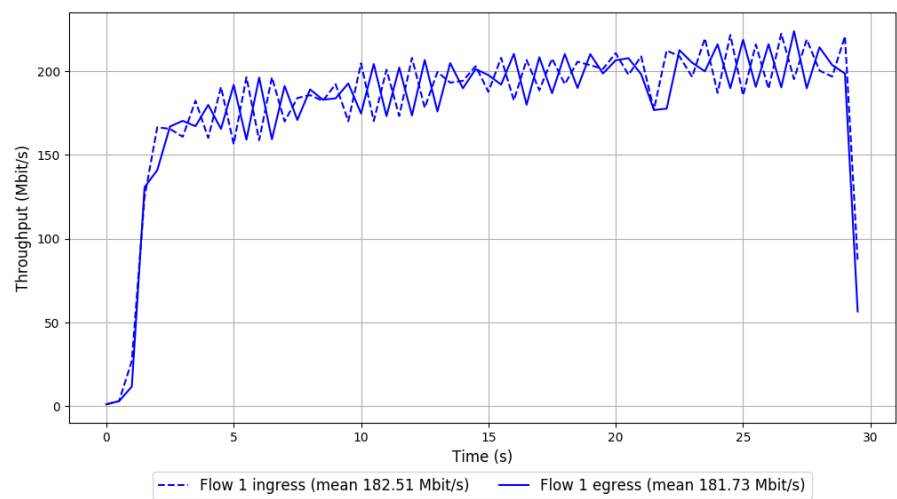
-- Flow 1:

Average throughput: 181.73 Mbit/s

95th percentile per-packet one-way delay: 89.879 ms

Loss rate: 1.09%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-30 11:49:18

End at: 2018-01-30 11:49:48

Below is generated by plot.py at 2018-01-30 16:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.43 Mbit/s

95th percentile per-packet one-way delay: 89.436 ms

Loss rate: 1.01%

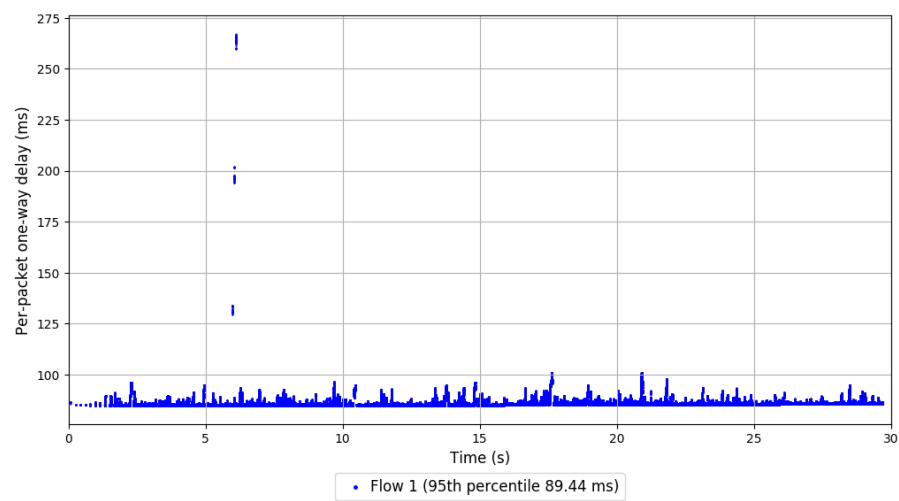
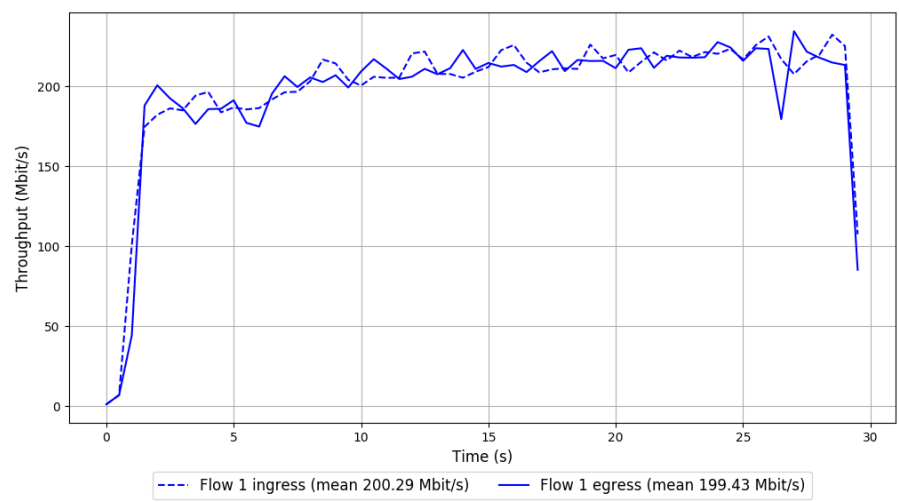
-- Flow 1:

Average throughput: 199.43 Mbit/s

95th percentile per-packet one-way delay: 89.436 ms

Loss rate: 1.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-30 12:04:07

End at: 2018-01-30 12:04:37

Below is generated by plot.py at 2018-01-30 16:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.41 Mbit/s

95th percentile per-packet one-way delay: 87.864 ms

Loss rate: 1.19%

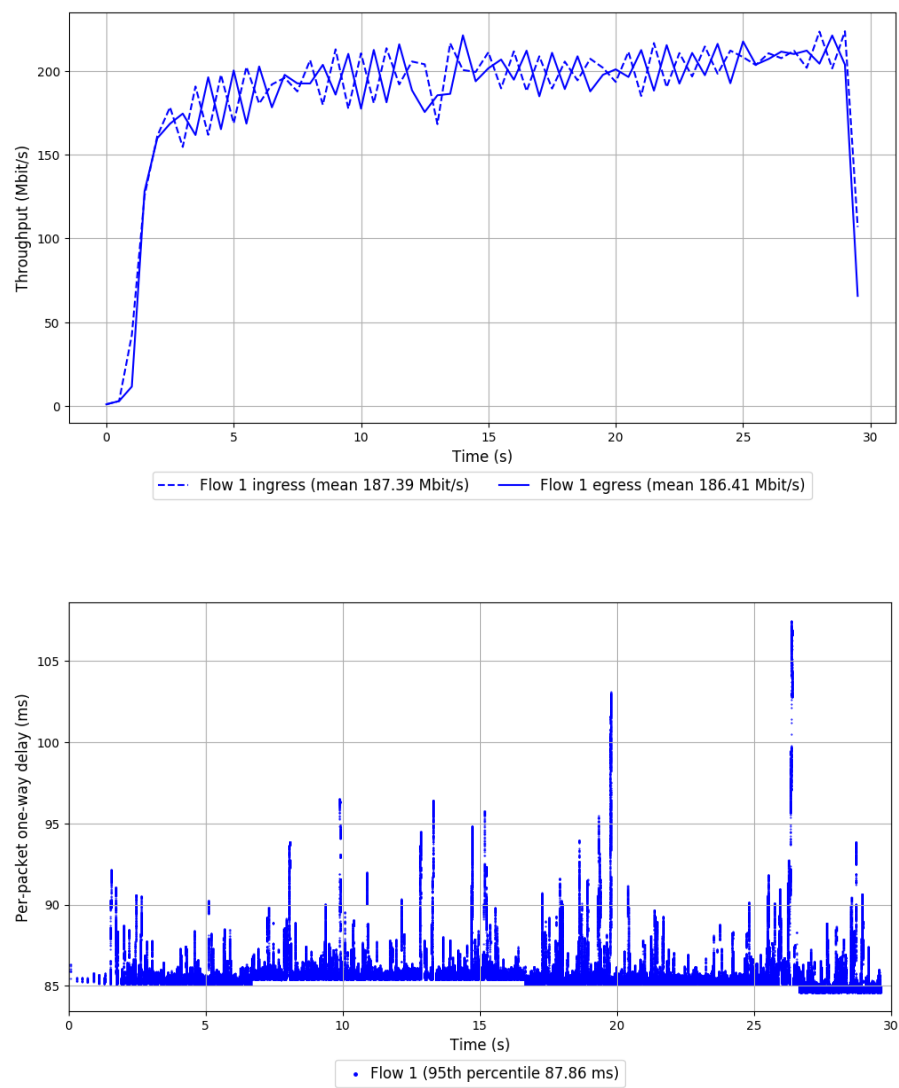
-- Flow 1:

Average throughput: 186.41 Mbit/s

95th percentile per-packet one-way delay: 87.864 ms

Loss rate: 1.19%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-30 12:18:44

End at: 2018-01-30 12:19:14

Below is generated by plot.py at 2018-01-30 16:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.38 Mbit/s

95th percentile per-packet one-way delay: 87.657 ms

Loss rate: 0.84%

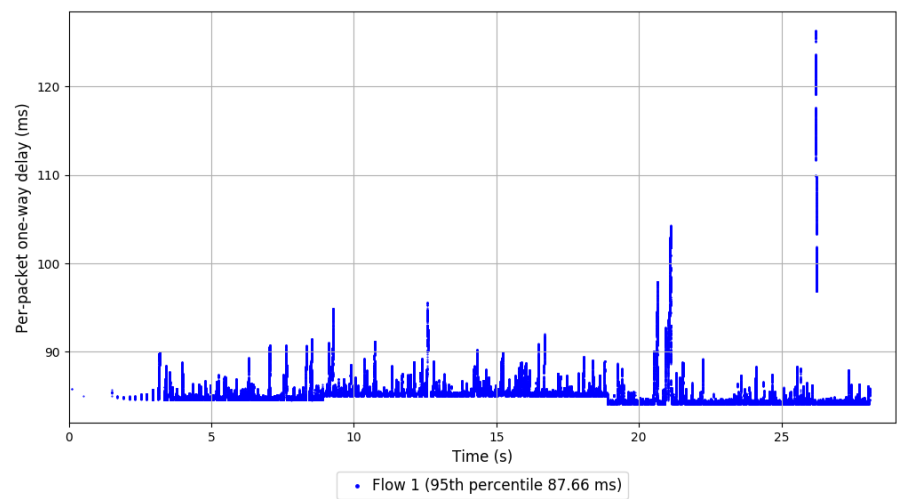
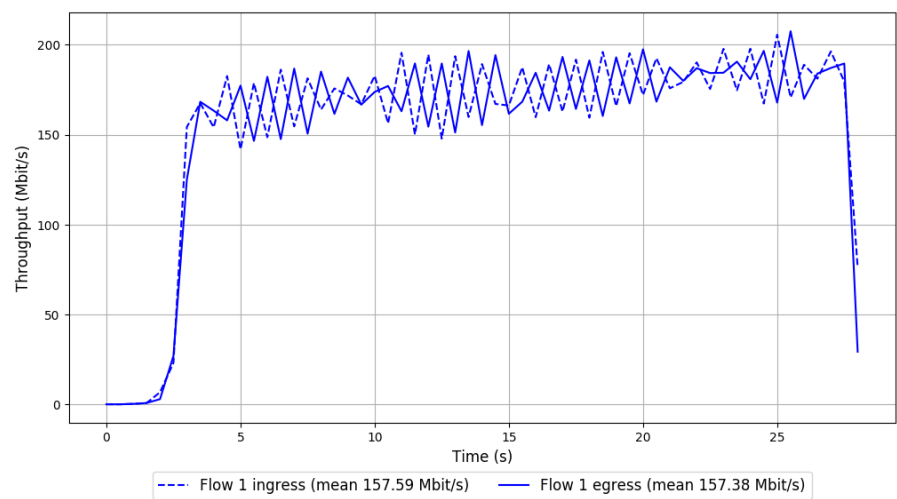
-- Flow 1:

Average throughput: 157.38 Mbit/s

95th percentile per-packet one-way delay: 87.657 ms

Loss rate: 0.84%

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

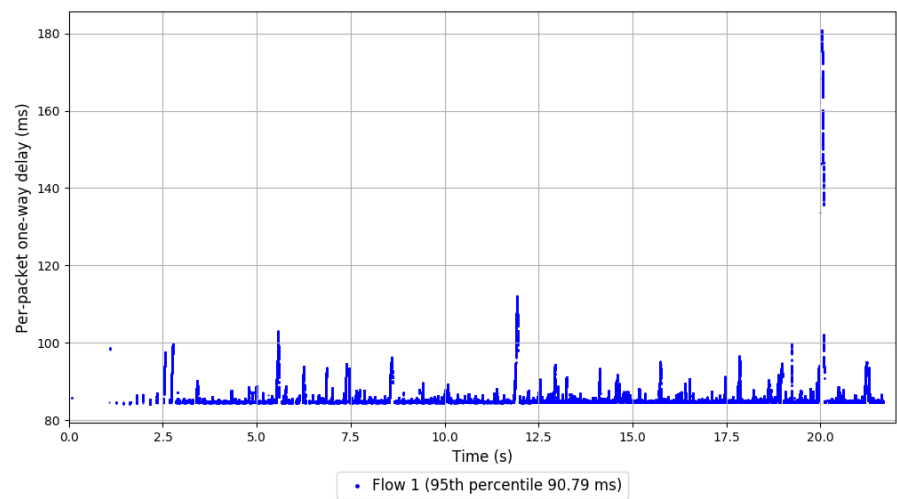
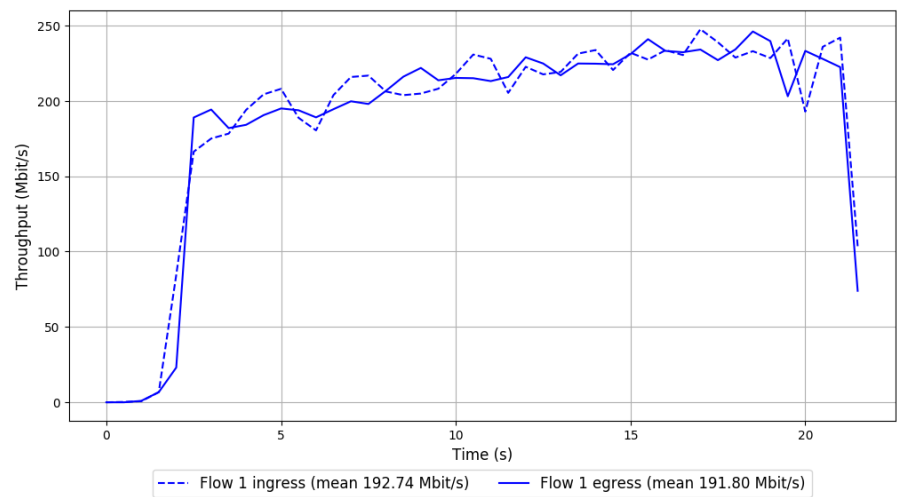


Run 7: Statistics of Indigo-1-32

Start at: 2018-01-30 12:33:14

End at: 2018-01-30 12:33:44

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-30 12:47:56

End at: 2018-01-30 12:48:26

Below is generated by plot.py at 2018-01-30 16:33:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.63 Mbit/s

95th percentile per-packet one-way delay: 88.363 ms

Loss rate: 0.69%

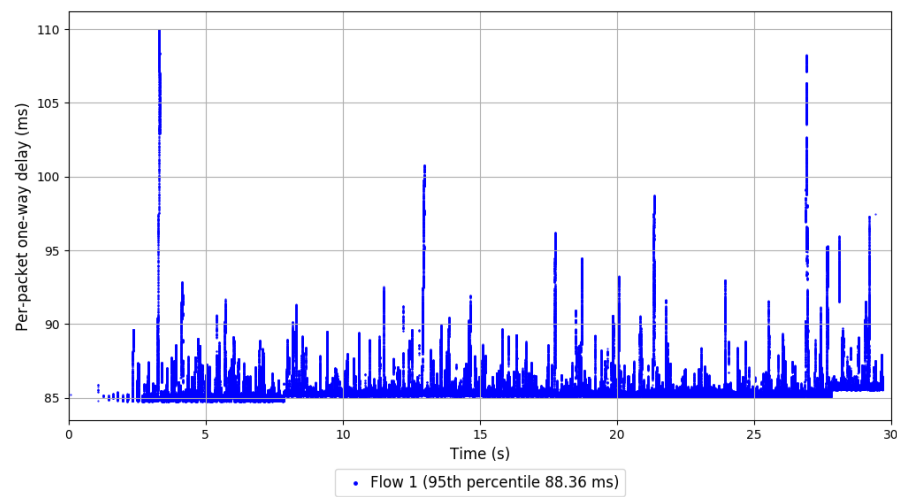
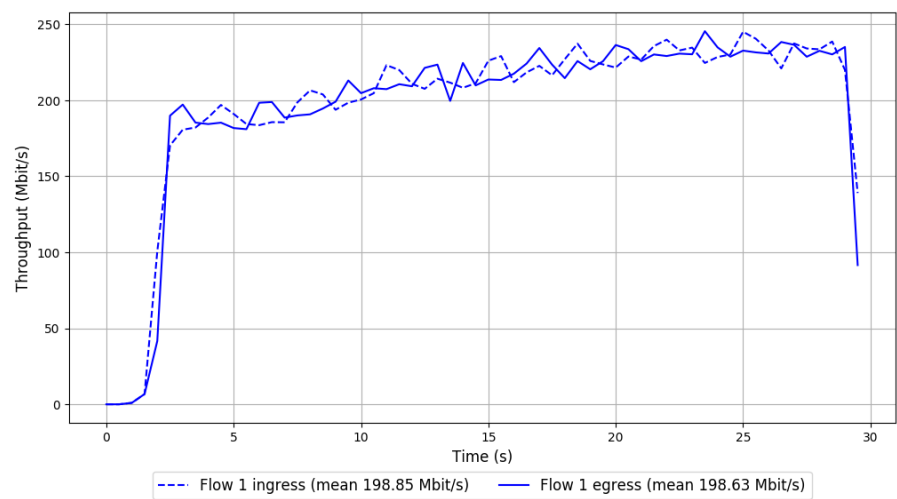
-- Flow 1:

Average throughput: 198.63 Mbit/s

95th percentile per-packet one-way delay: 88.363 ms

Loss rate: 0.69%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-30 13:02:44

End at: 2018-01-30 13:03:14

Below is generated by plot.py at 2018-01-30 16:35:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.71 Mbit/s

95th percentile per-packet one-way delay: 87.179 ms

Loss rate: 1.04%

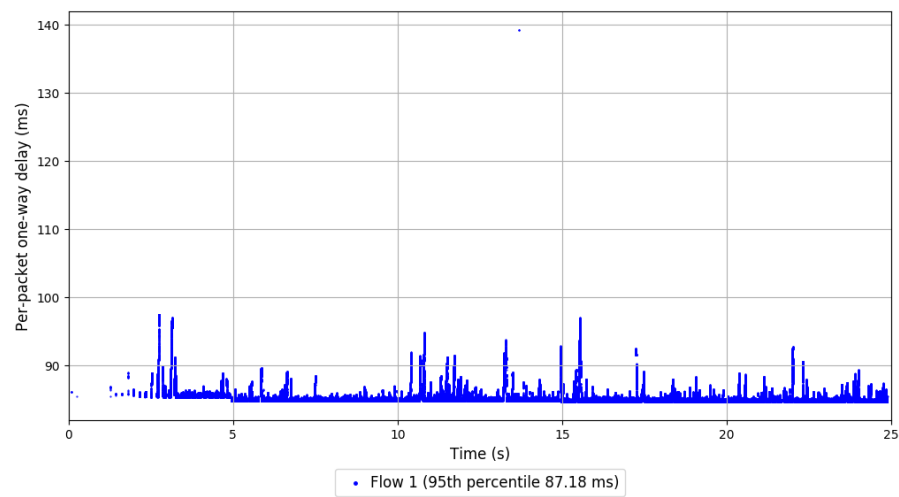
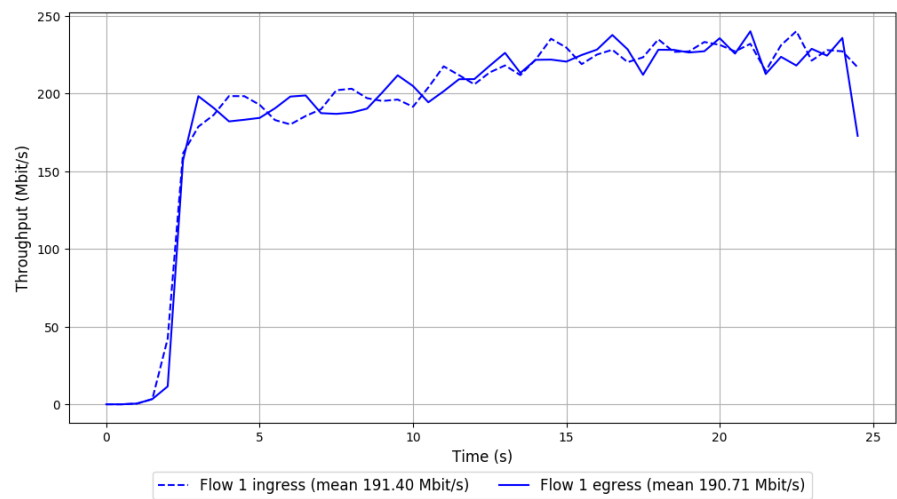
-- Flow 1:

Average throughput: 190.71 Mbit/s

95th percentile per-packet one-way delay: 87.179 ms

Loss rate: 1.04%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-30 13:17:14

End at: 2018-01-30 13:17:44

Below is generated by plot.py at 2018-01-30 16:35:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.40 Mbit/s

95th percentile per-packet one-way delay: 89.888 ms

Loss rate: 1.49%

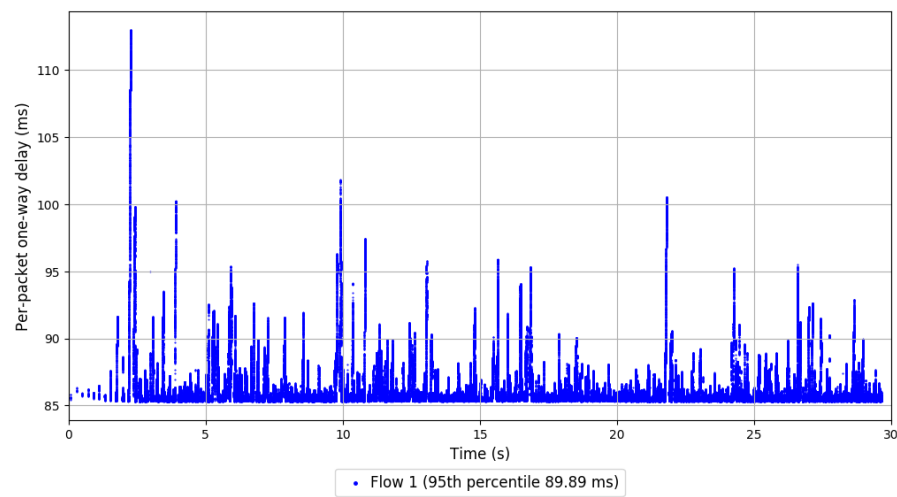
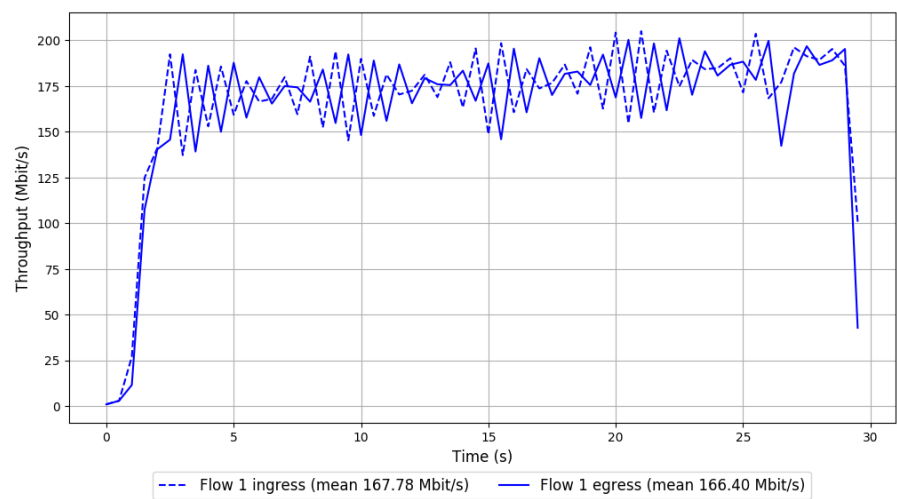
-- Flow 1:

Average throughput: 166.40 Mbit/s

95th percentile per-packet one-way delay: 89.888 ms

Loss rate: 1.49%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-01-30 10:57:28

End at: 2018-01-30 10:57:58

Below is generated by plot.py at 2018-01-30 16:37:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.16 Mbit/s

95th percentile per-packet one-way delay: 91.708 ms

Loss rate: 0.81%

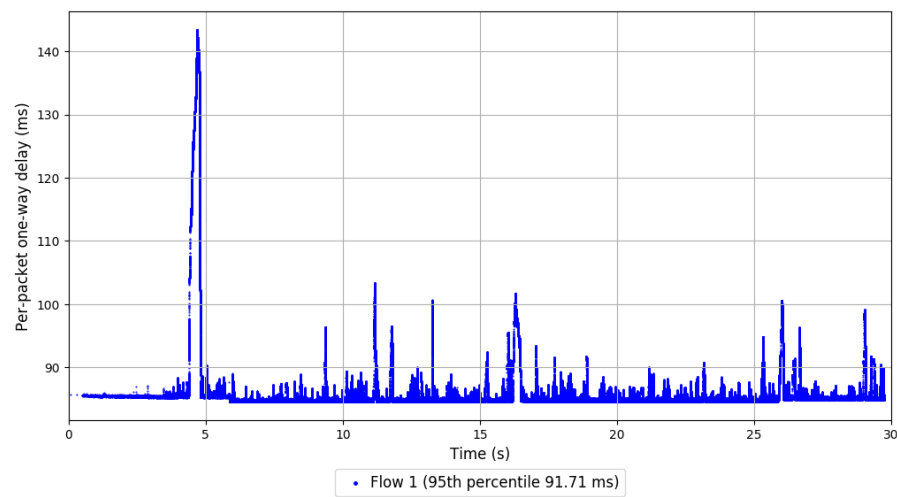
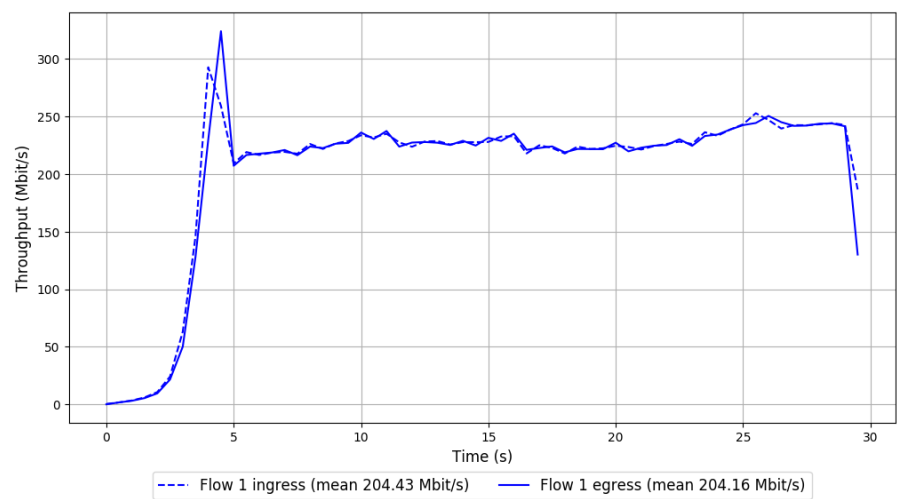
-- Flow 1:

Average throughput: 204.16 Mbit/s

95th percentile per-packet one-way delay: 91.708 ms

Loss rate: 0.81%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-30 11:12:10

End at: 2018-01-30 11:12:40

Below is generated by plot.py at 2018-01-30 16:37:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.58 Mbit/s

95th percentile per-packet one-way delay: 111.487 ms

Loss rate: 1.64%

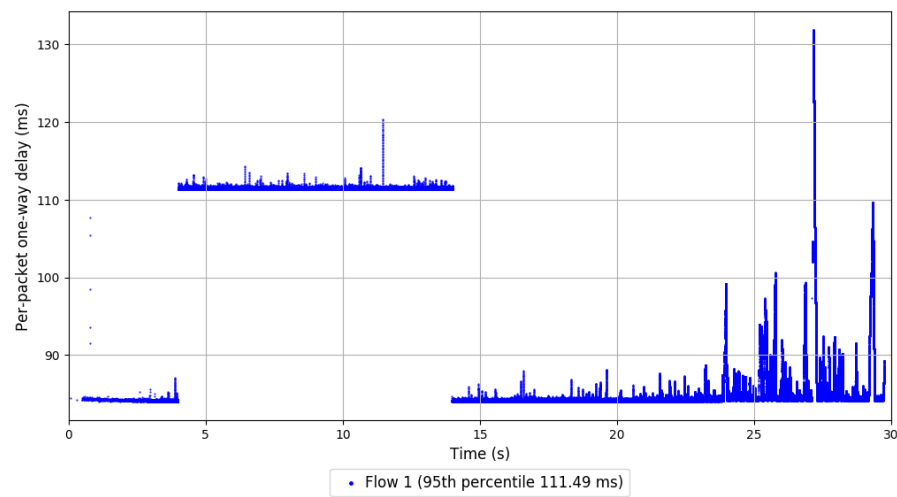
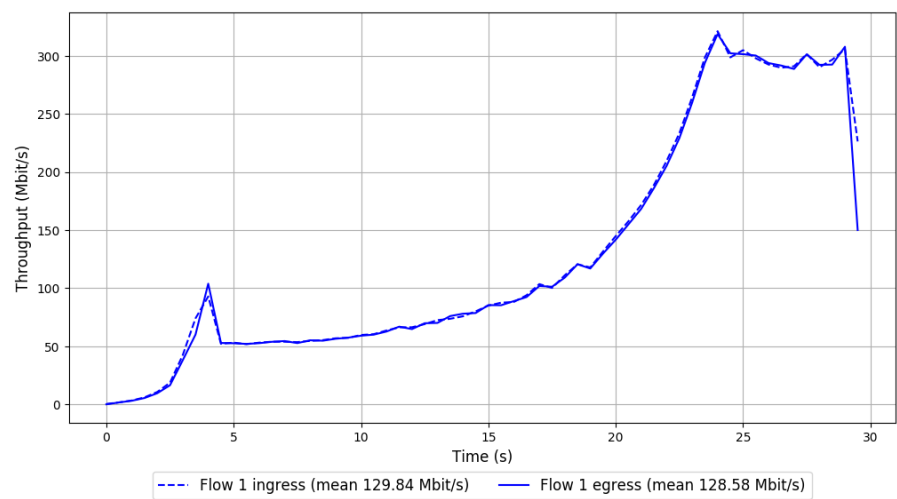
-- Flow 1:

Average throughput: 128.58 Mbit/s

95th percentile per-packet one-way delay: 111.487 ms

Loss rate: 1.64%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-30 11:26:41

End at: 2018-01-30 11:27:11

Below is generated by plot.py at 2018-01-30 16:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.29 Mbit/s

95th percentile per-packet one-way delay: 100.386 ms

Loss rate: 0.96%

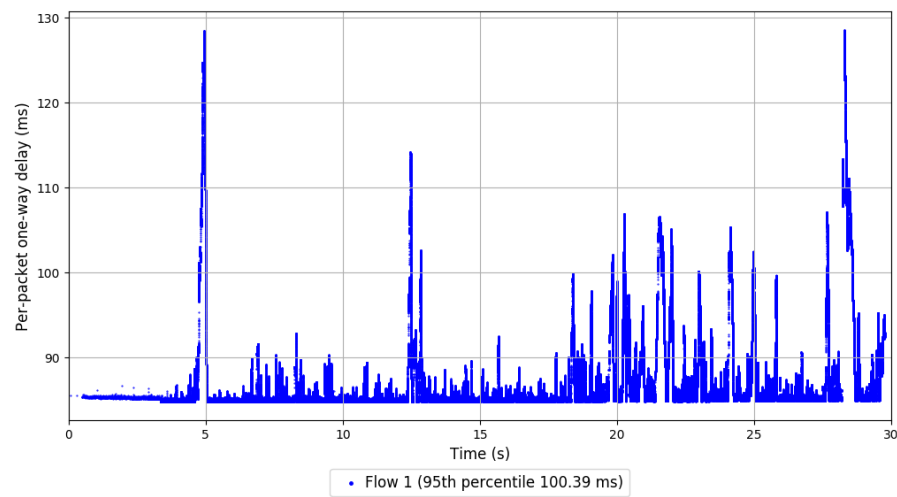
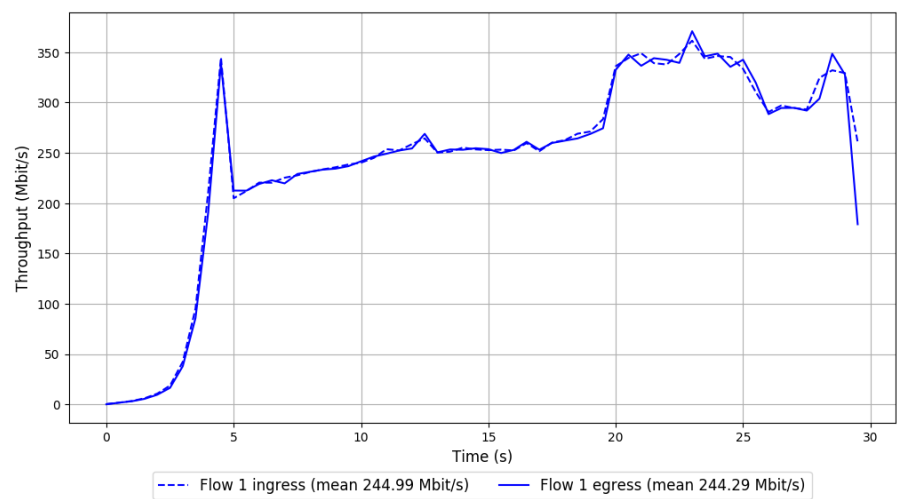
-- Flow 1:

Average throughput: 244.29 Mbit/s

95th percentile per-packet one-way delay: 100.386 ms

Loss rate: 0.96%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-30 11:41:24

End at: 2018-01-30 11:41:54

Below is generated by plot.py at 2018-01-30 16:37:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.30 Mbit/s

95th percentile per-packet one-way delay: 104.889 ms

Loss rate: 1.23%

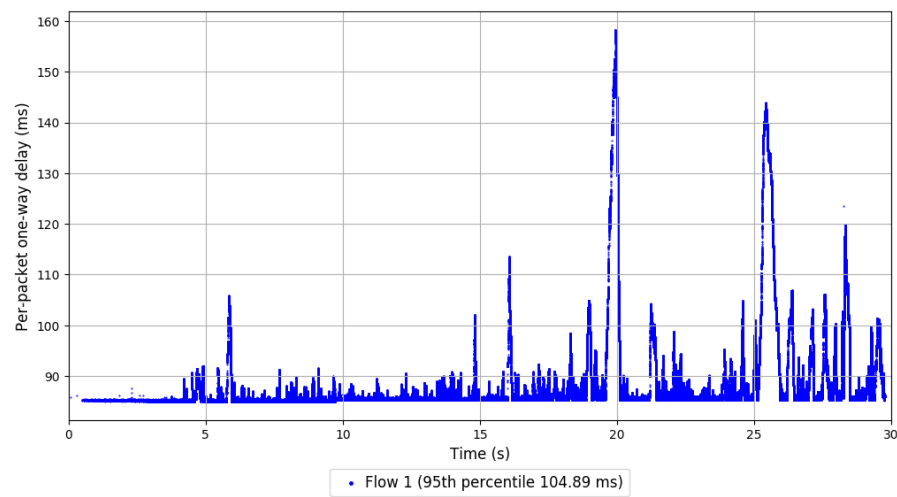
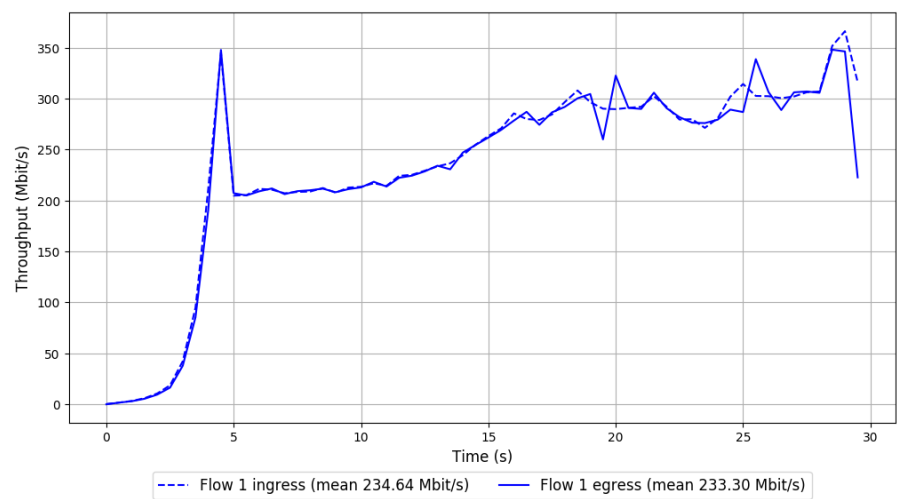
-- Flow 1:

Average throughput: 233.30 Mbit/s

95th percentile per-packet one-way delay: 104.889 ms

Loss rate: 1.23%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-30 11:56:20

End at: 2018-01-30 11:56:50

Below is generated by plot.py at 2018-01-30 16:37:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.19 Mbit/s

95th percentile per-packet one-way delay: 119.459 ms

Loss rate: 0.94%

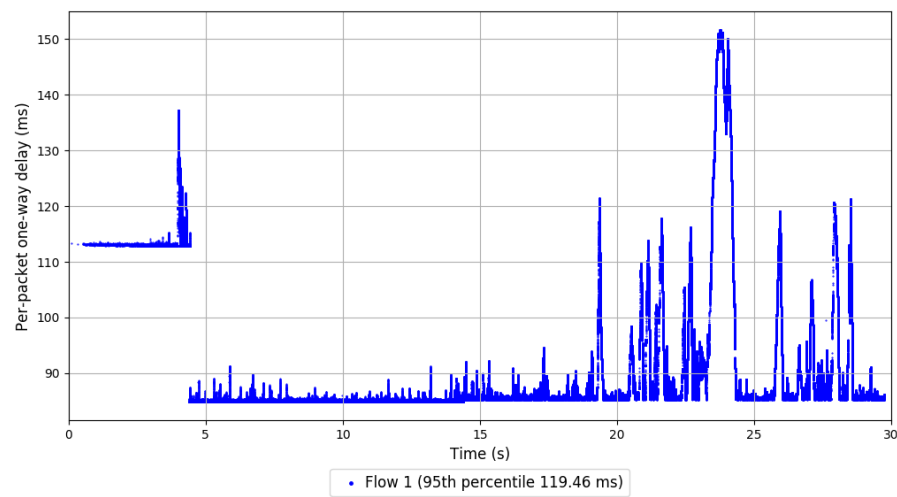
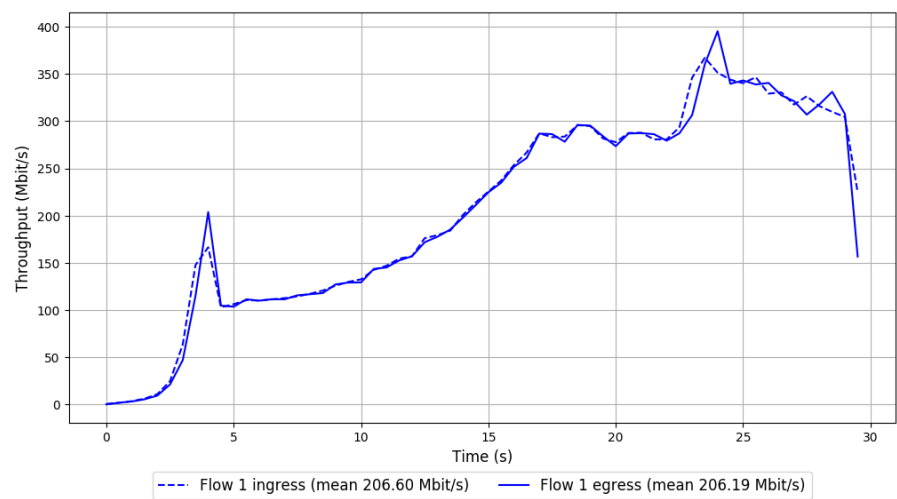
-- Flow 1:

Average throughput: 206.19 Mbit/s

95th percentile per-packet one-way delay: 119.459 ms

Loss rate: 0.94%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-30 12:11:05

End at: 2018-01-30 12:11:35

Below is generated by plot.py at 2018-01-30 16:37:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 112.648 ms

Loss rate: 1.13%

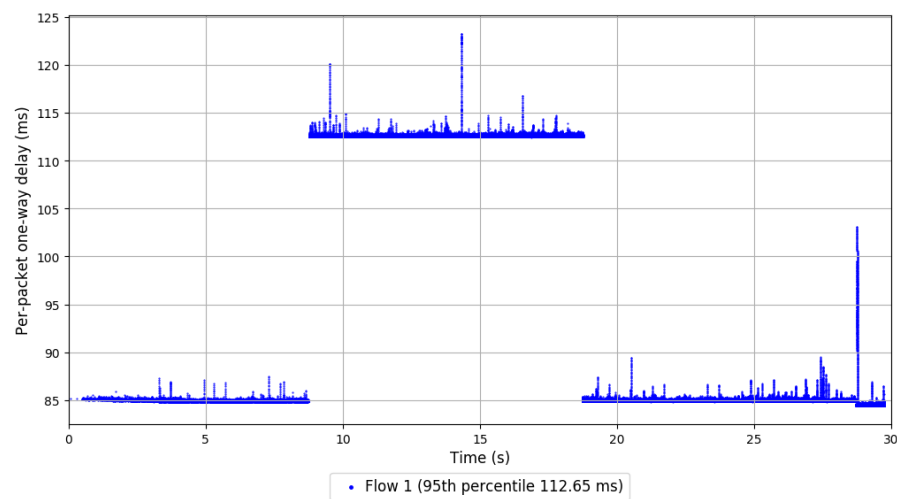
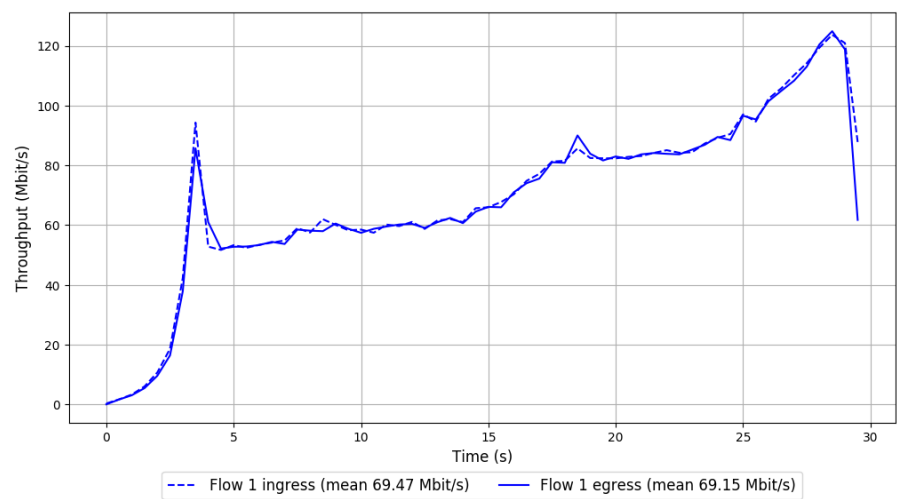
-- Flow 1:

Average throughput: 69.15 Mbit/s

95th percentile per-packet one-way delay: 112.648 ms

Loss rate: 1.13%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-30 12:25:32

End at: 2018-01-30 12:26:02

Below is generated by plot.py at 2018-01-30 16:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.20 Mbit/s

95th percentile per-packet one-way delay: 131.460 ms

Loss rate: 1.44%

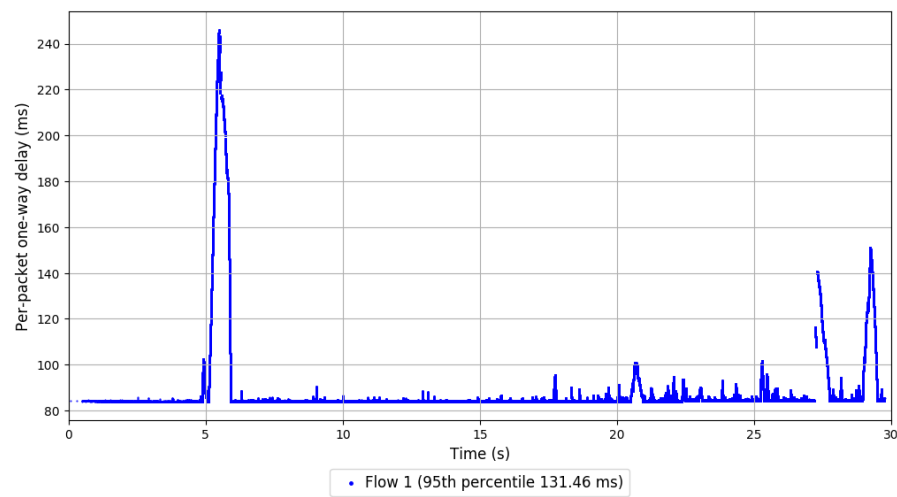
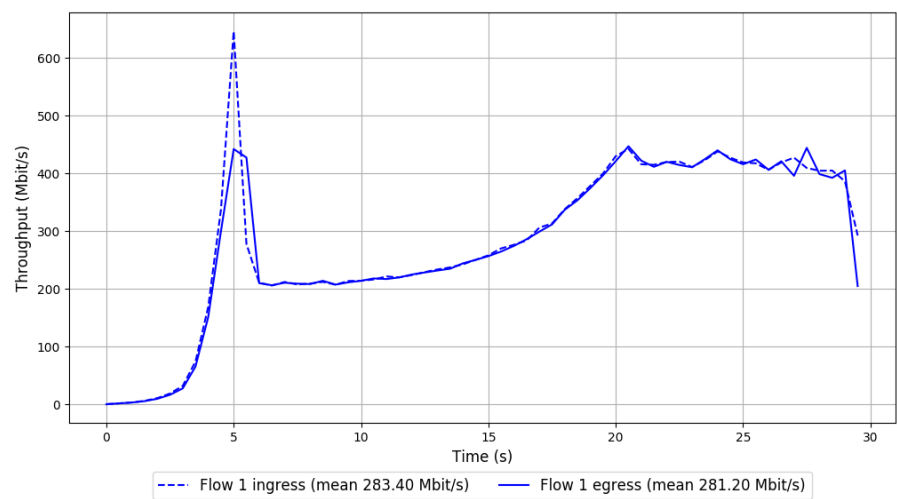
-- Flow 1:

Average throughput: 281.20 Mbit/s

95th percentile per-packet one-way delay: 131.460 ms

Loss rate: 1.44%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-30 12:40:05

End at: 2018-01-30 12:40:35

Below is generated by plot.py at 2018-01-30 16:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.58 Mbit/s

95th percentile per-packet one-way delay: 99.139 ms

Loss rate: 1.08%

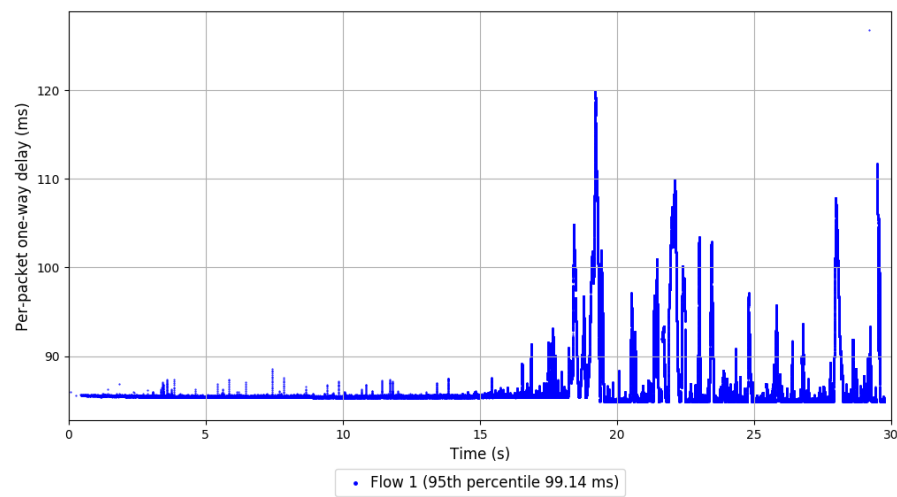
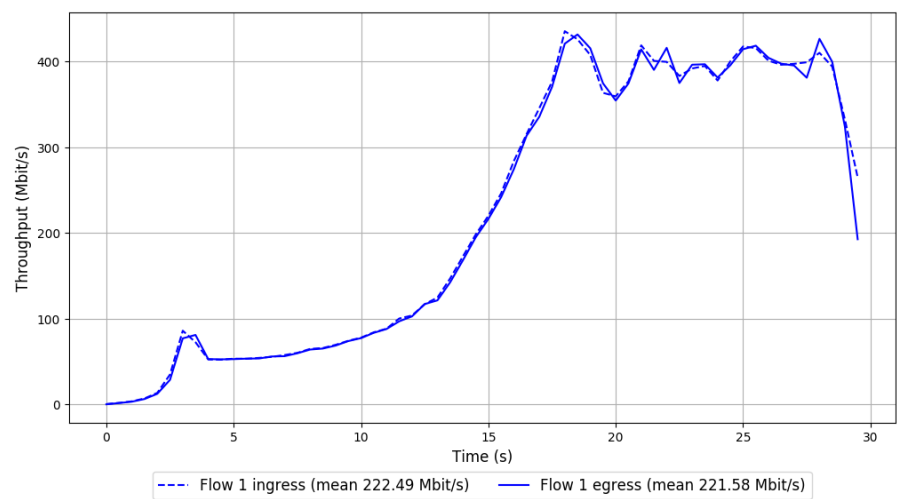
-- Flow 1:

Average throughput: 221.58 Mbit/s

95th percentile per-packet one-way delay: 99.139 ms

Loss rate: 1.08%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-30 12:54:58

End at: 2018-01-30 12:55:28

Below is generated by plot.py at 2018-01-30 16:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.78 Mbit/s

95th percentile per-packet one-way delay: 126.999 ms

Loss rate: 0.95%

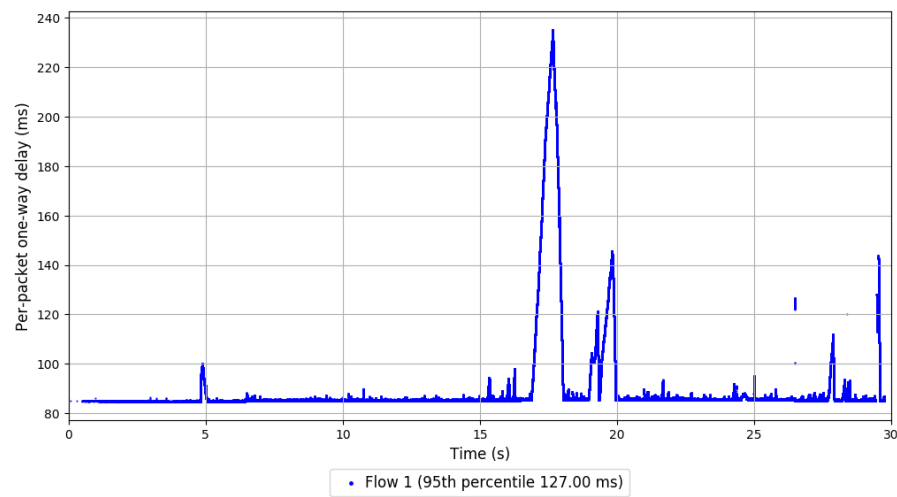
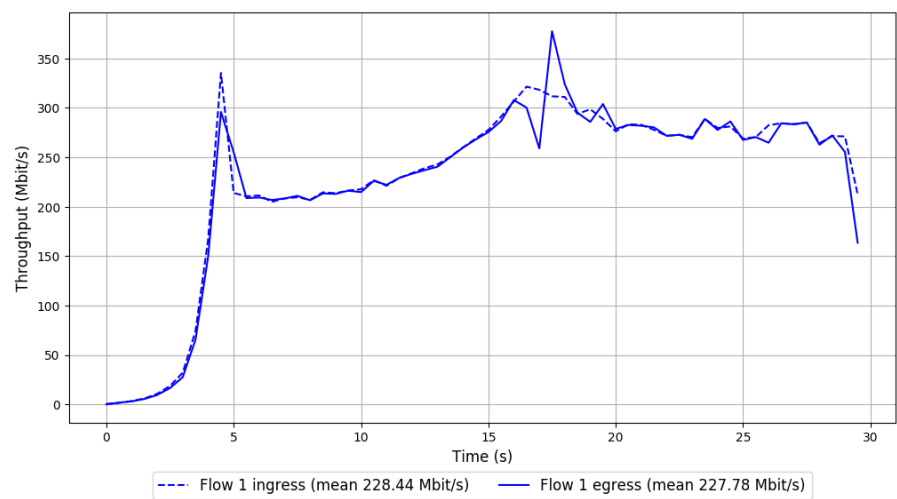
-- Flow 1:

Average throughput: 227.78 Mbit/s

95th percentile per-packet one-way delay: 126.999 ms

Loss rate: 0.95%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-30 13:09:33

End at: 2018-01-30 13:10:03

Below is generated by plot.py at 2018-01-30 16:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.80 Mbit/s

95th percentile per-packet one-way delay: 88.901 ms

Loss rate: 0.95%

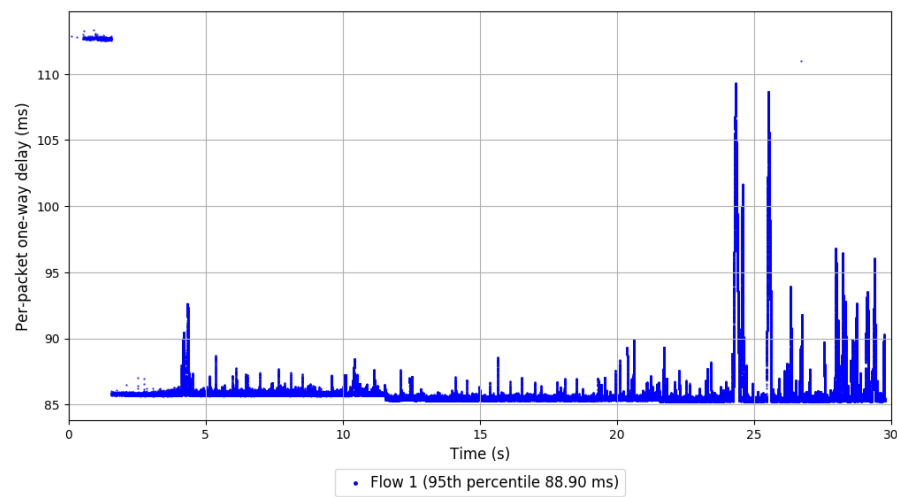
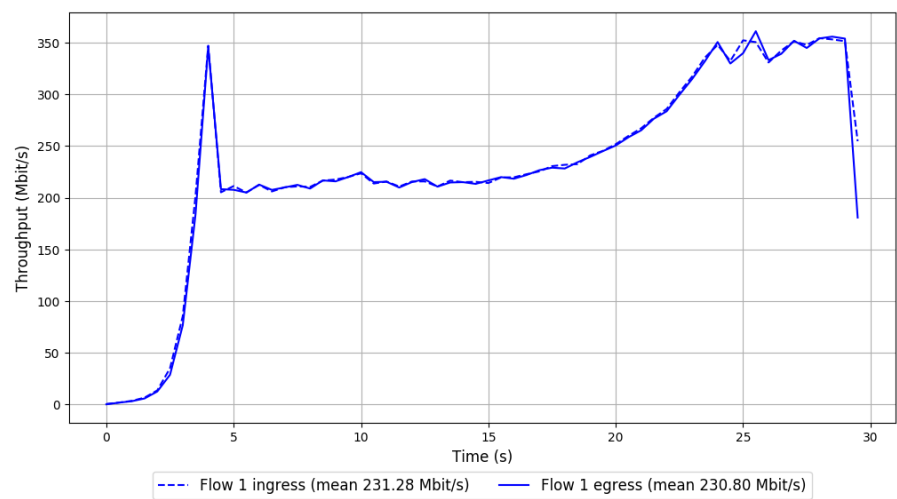
-- Flow 1:

Average throughput: 230.80 Mbit/s

95th percentile per-packet one-way delay: 88.901 ms

Loss rate: 0.95%

Run 10: Report of Vivace-latency — Data Link

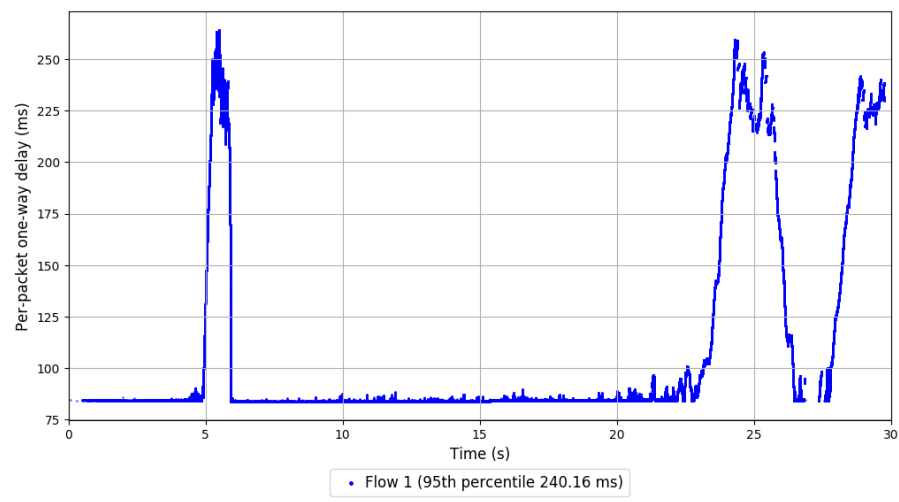
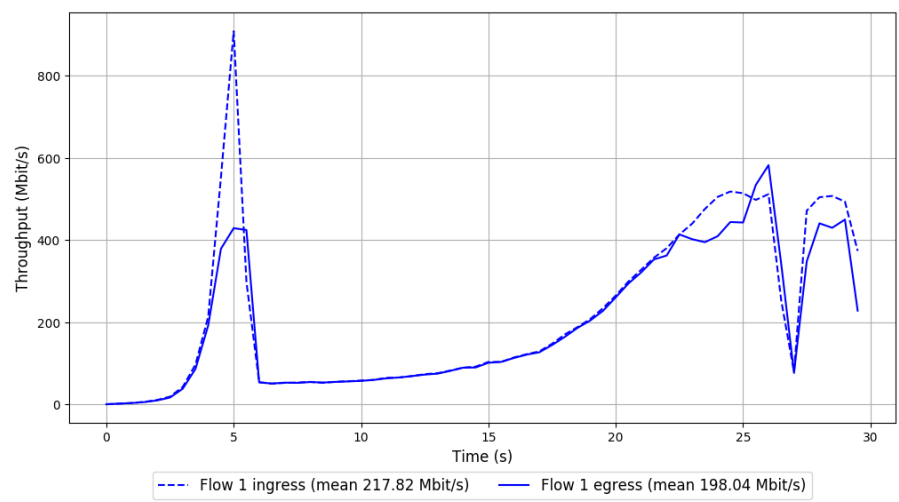


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-30 11:06:09
End at: 2018-01-30 11:06:39

# Below is generated by plot.py at 2018-01-30 16:40:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.04 Mbit/s
95th percentile per-packet one-way delay: 240.162 ms
Loss rate: 9.69%
-- Flow 1:
Average throughput: 198.04 Mbit/s
95th percentile per-packet one-way delay: 240.162 ms
Loss rate: 9.69%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-30 11:20:41

End at: 2018-01-30 11:21:11

Below is generated by plot.py at 2018-01-30 16:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.77 Mbit/s

95th percentile per-packet one-way delay: 254.288 ms

Loss rate: 5.07%

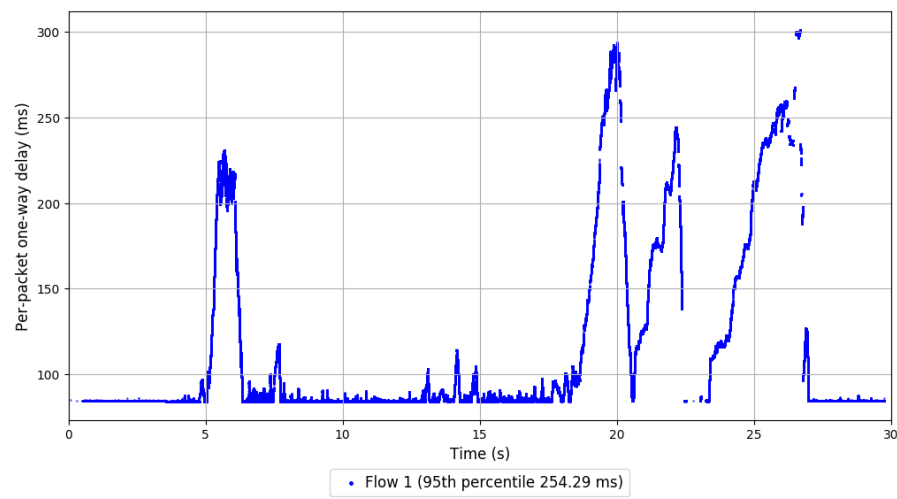
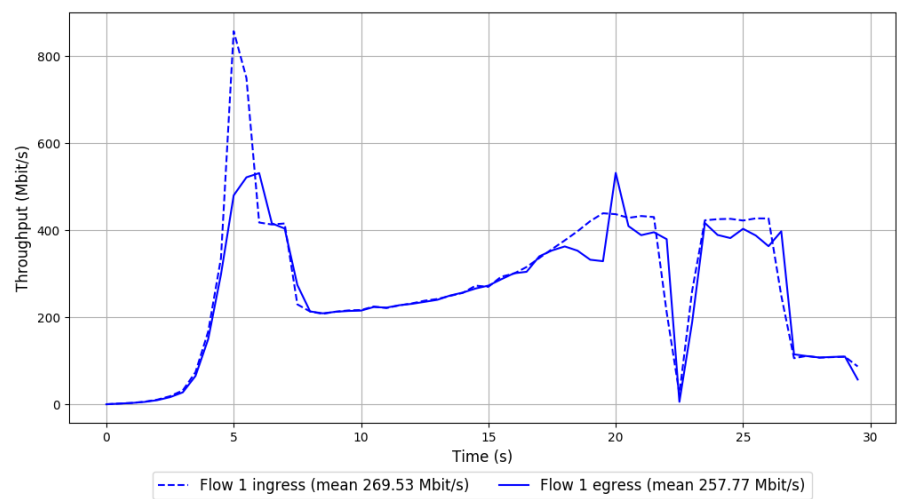
-- Flow 1:

Average throughput: 257.77 Mbit/s

95th percentile per-packet one-way delay: 254.288 ms

Loss rate: 5.07%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-30 11:35:23

End at: 2018-01-30 11:35:53

Below is generated by plot.py at 2018-01-30 16:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.32 Mbit/s

95th percentile per-packet one-way delay: 263.818 ms

Loss rate: 9.74%

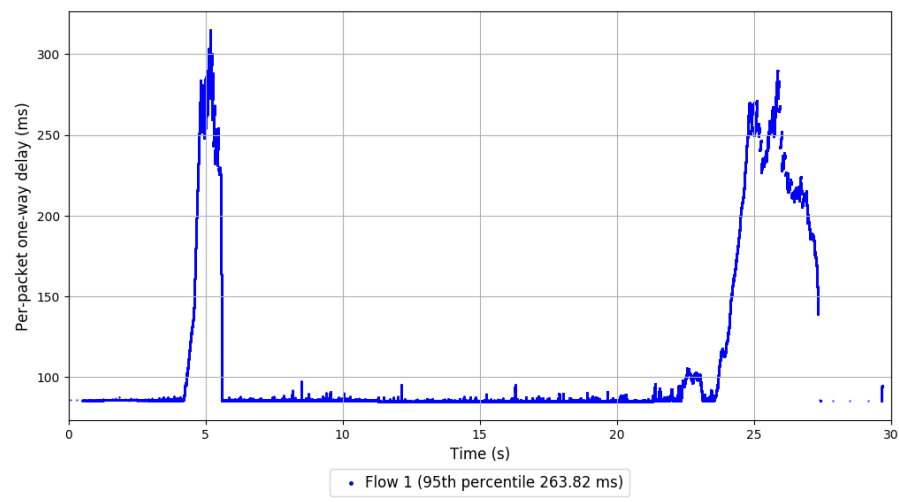
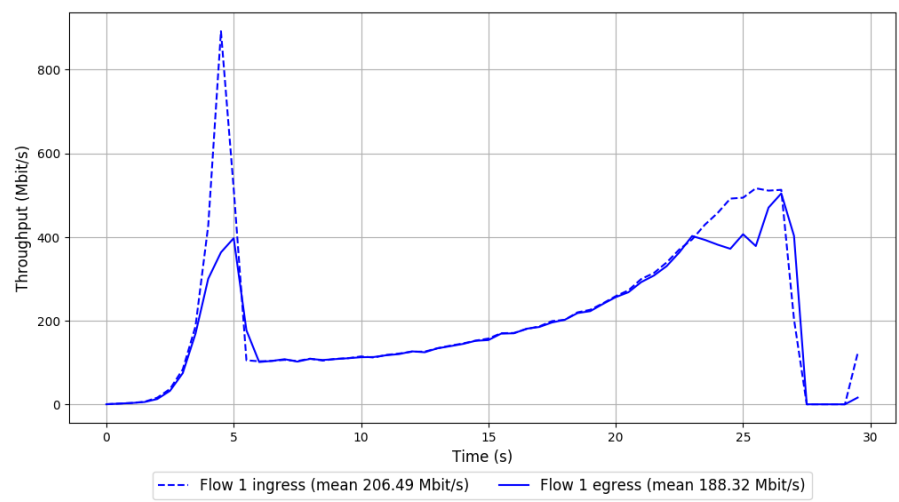
-- Flow 1:

Average throughput: 188.32 Mbit/s

95th percentile per-packet one-way delay: 263.818 ms

Loss rate: 9.74%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-30 11:50:14

End at: 2018-01-30 11:50:44

Below is generated by plot.py at 2018-01-30 16:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.50 Mbit/s

95th percentile per-packet one-way delay: 297.387 ms

Loss rate: 14.02%

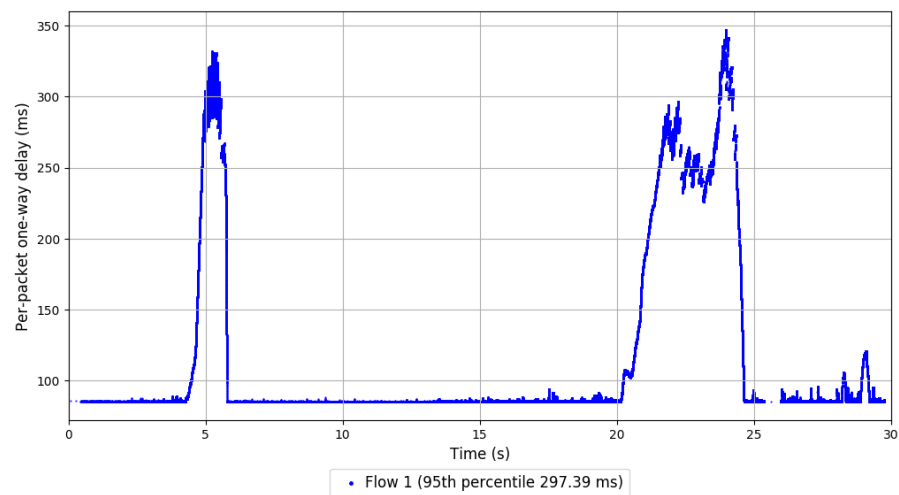
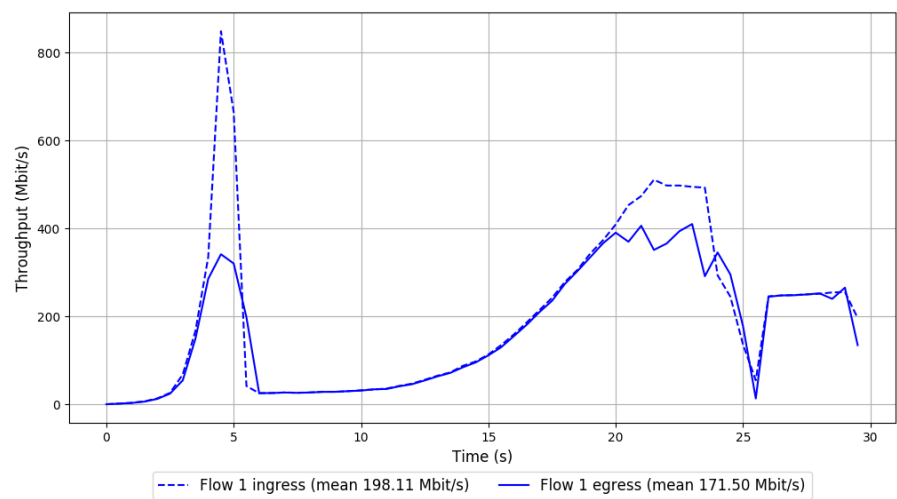
-- Flow 1:

Average throughput: 171.50 Mbit/s

95th percentile per-packet one-way delay: 297.387 ms

Loss rate: 14.02%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-30 12:05:03

End at: 2018-01-30 12:05:33

Below is generated by plot.py at 2018-01-30 16:44:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.02 Mbit/s

95th percentile per-packet one-way delay: 238.063 ms

Loss rate: 6.39%

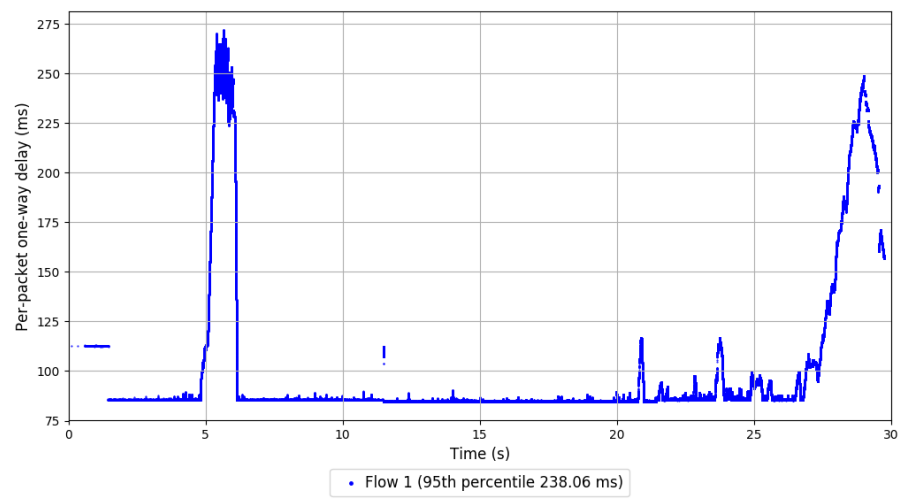
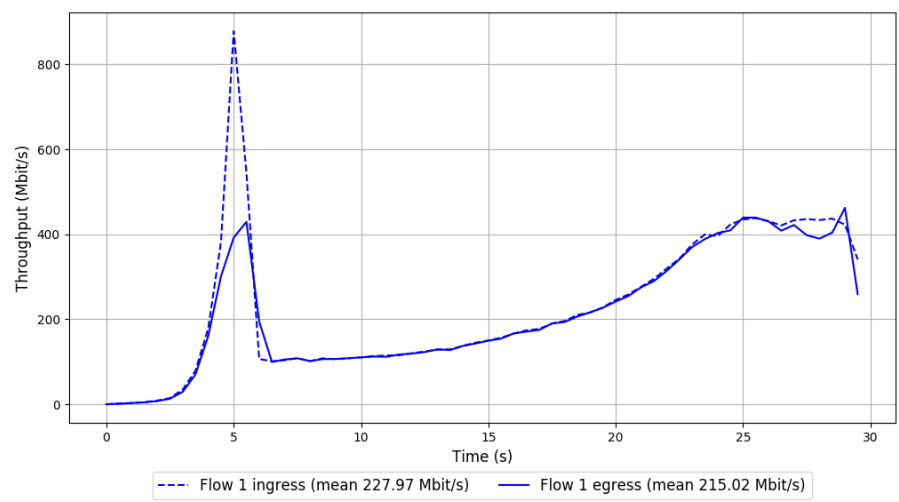
-- Flow 1:

Average throughput: 215.02 Mbit/s

95th percentile per-packet one-way delay: 238.063 ms

Loss rate: 6.39%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-30 12:19:35

End at: 2018-01-30 12:20:05

Below is generated by plot.py at 2018-01-30 16:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.53 Mbit/s

95th percentile per-packet one-way delay: 242.905 ms

Loss rate: 6.43%

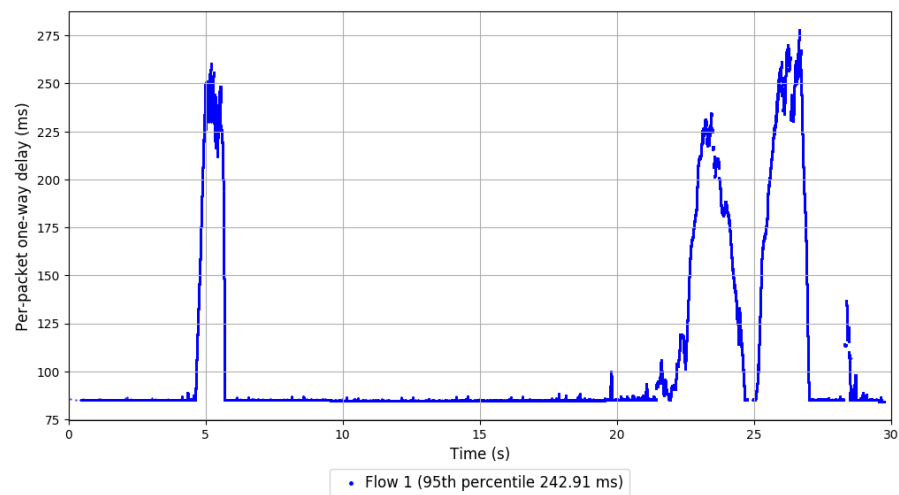
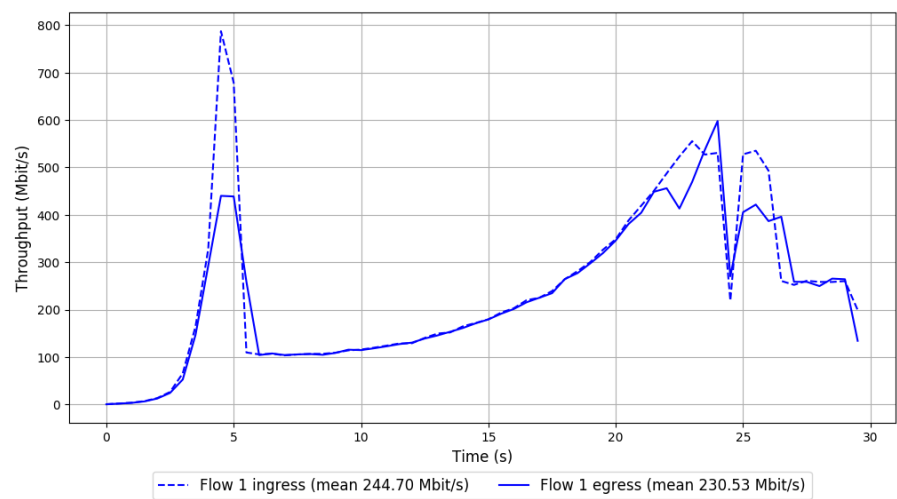
-- Flow 1:

Average throughput: 230.53 Mbit/s

95th percentile per-packet one-way delay: 242.905 ms

Loss rate: 6.43%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-30 12:34:04

End at: 2018-01-30 12:34:34

Below is generated by plot.py at 2018-01-30 16:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 238.568 ms

Loss rate: 8.29%

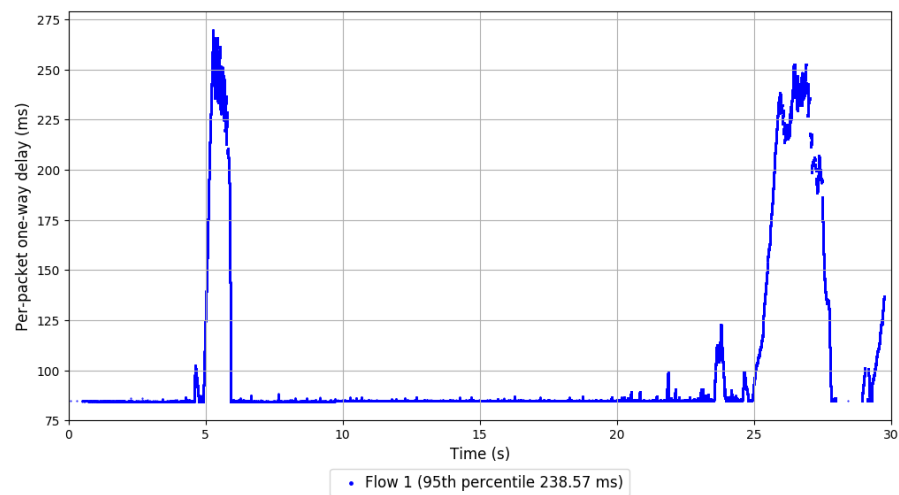
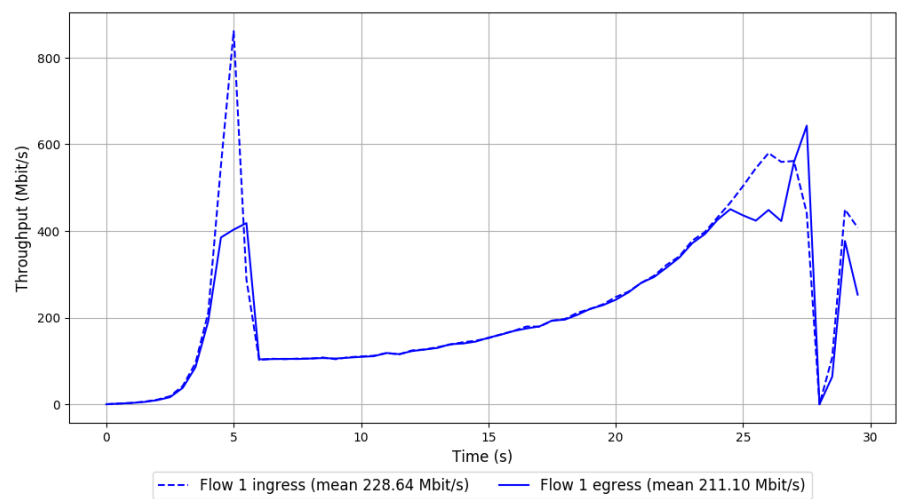
-- Flow 1:

Average throughput: 211.10 Mbit/s

95th percentile per-packet one-way delay: 238.568 ms

Loss rate: 8.29%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-30 12:48:52

End at: 2018-01-30 12:49:22

Below is generated by plot.py at 2018-01-30 16:45:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.75 Mbit/s

95th percentile per-packet one-way delay: 248.692 ms

Loss rate: 9.46%

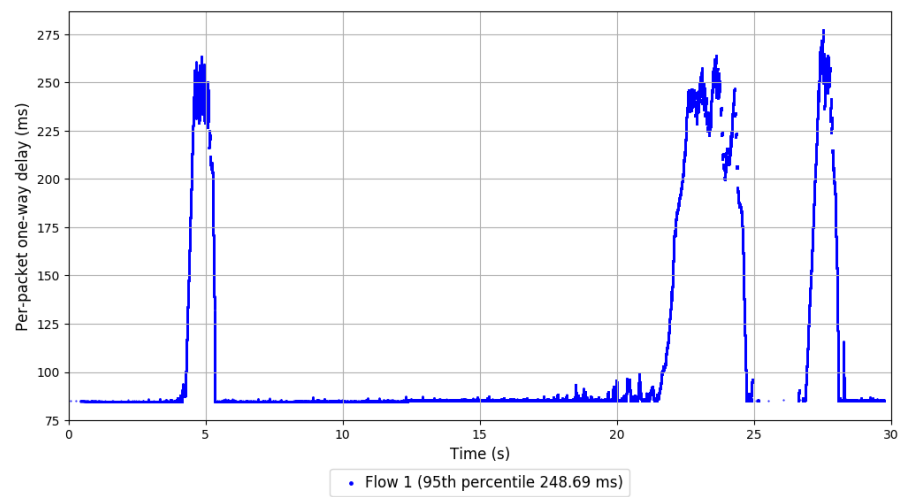
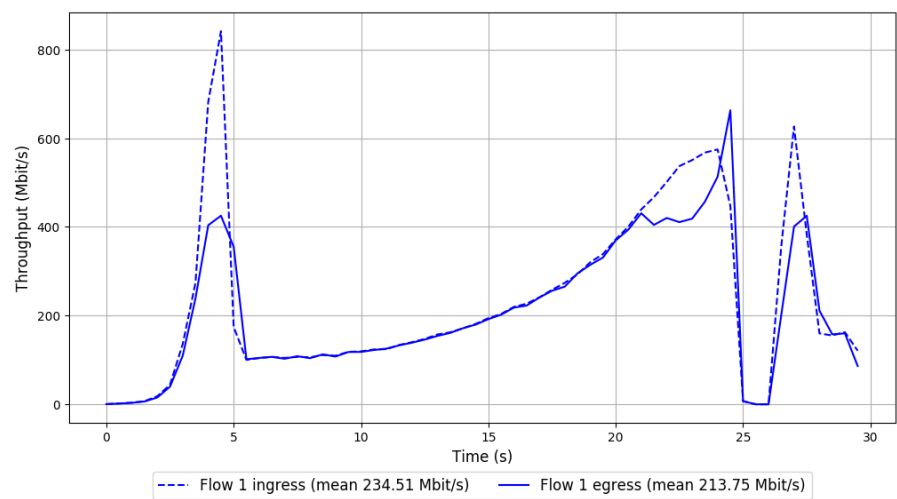
-- Flow 1:

Average throughput: 213.75 Mbit/s

95th percentile per-packet one-way delay: 248.692 ms

Loss rate: 9.46%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-30 13:03:37

End at: 2018-01-30 13:04:07

Below is generated by plot.py at 2018-01-30 16:45:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.44 Mbit/s

95th percentile per-packet one-way delay: 250.798 ms

Loss rate: 7.86%

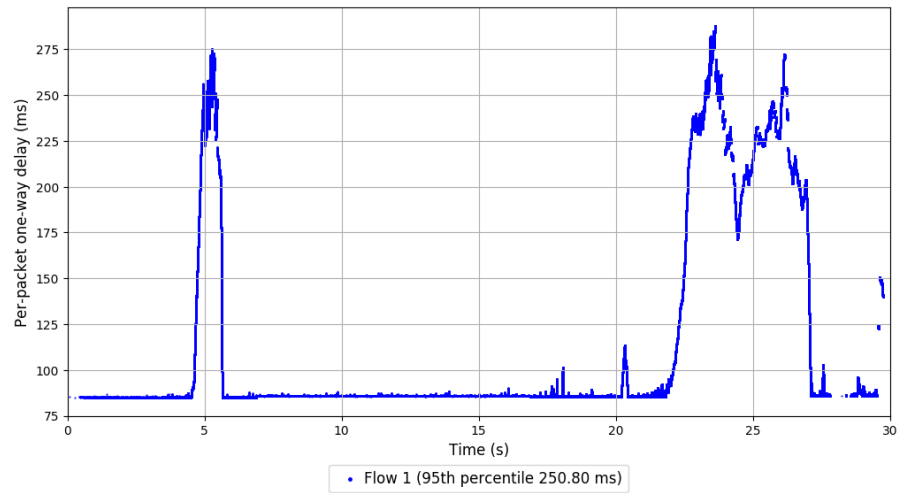
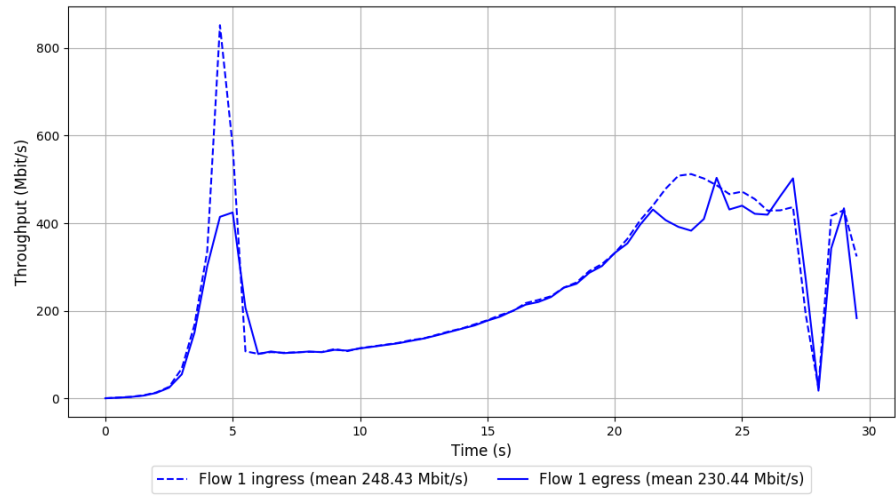
-- Flow 1:

Average throughput: 230.44 Mbit/s

95th percentile per-packet one-way delay: 250.798 ms

Loss rate: 7.86%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-30 13:18:07

End at: 2018-01-30 13:18:37

Below is generated by plot.py at 2018-01-30 16:45:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.73 Mbit/s

95th percentile per-packet one-way delay: 242.759 ms

Loss rate: 7.04%

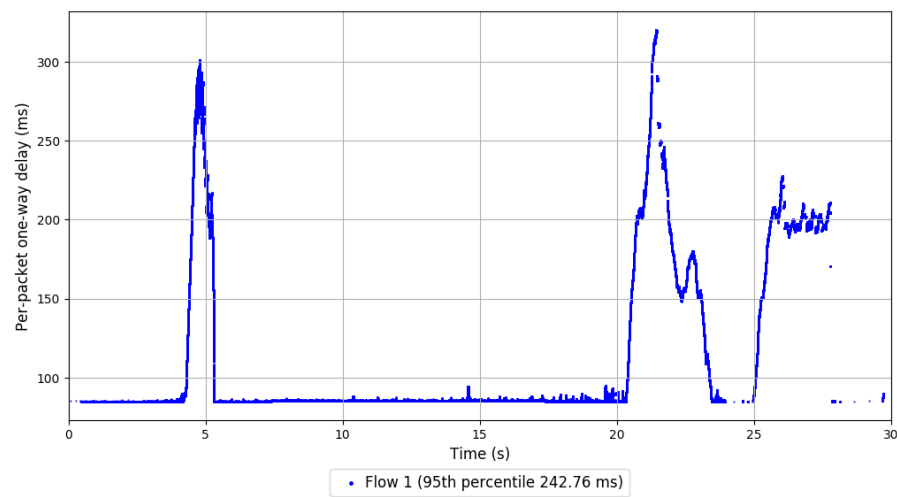
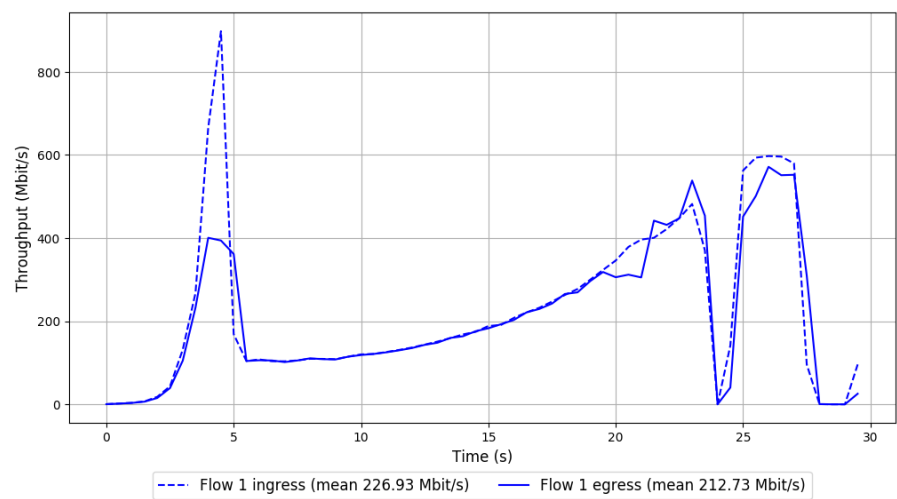
-- Flow 1:

Average throughput: 212.73 Mbit/s

95th percentile per-packet one-way delay: 242.759 ms

Loss rate: 7.04%

Run 10: Report of Vivace-loss — Data Link

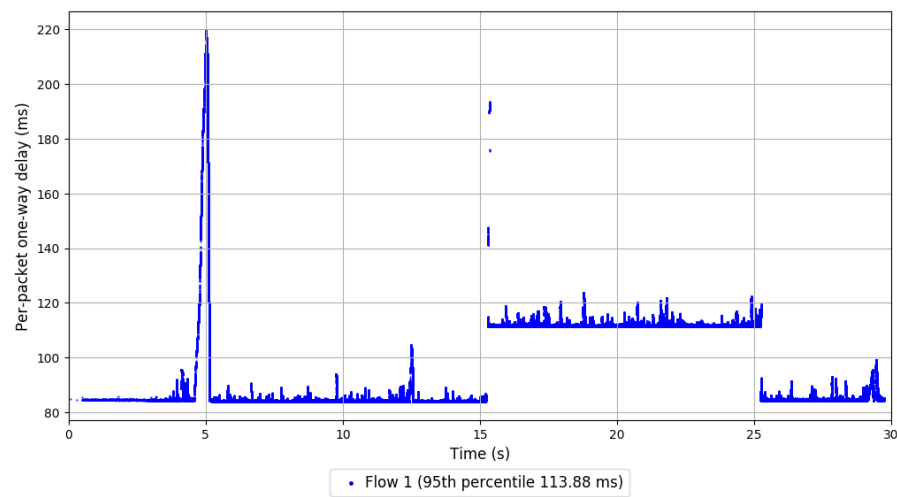
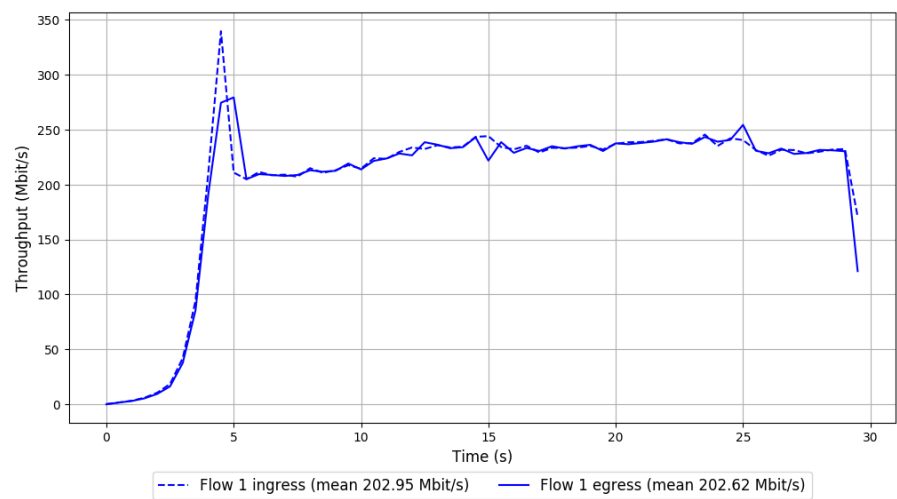


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-30 11:08:29
End at: 2018-01-30 11:08:59

# Below is generated by plot.py at 2018-01-30 16:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.62 Mbit/s
95th percentile per-packet one-way delay: 113.878 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 202.62 Mbit/s
95th percentile per-packet one-way delay: 113.878 ms
Loss rate: 0.83%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-30 11:23:02

End at: 2018-01-30 11:23:32

Below is generated by plot.py at 2018-01-30 16:47:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.86 Mbit/s

95th percentile per-packet one-way delay: 140.166 ms

Loss rate: 2.01%

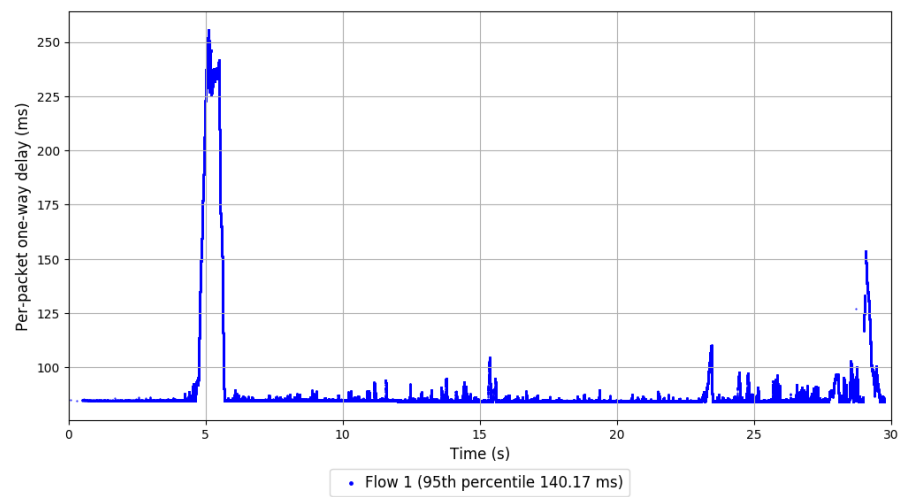
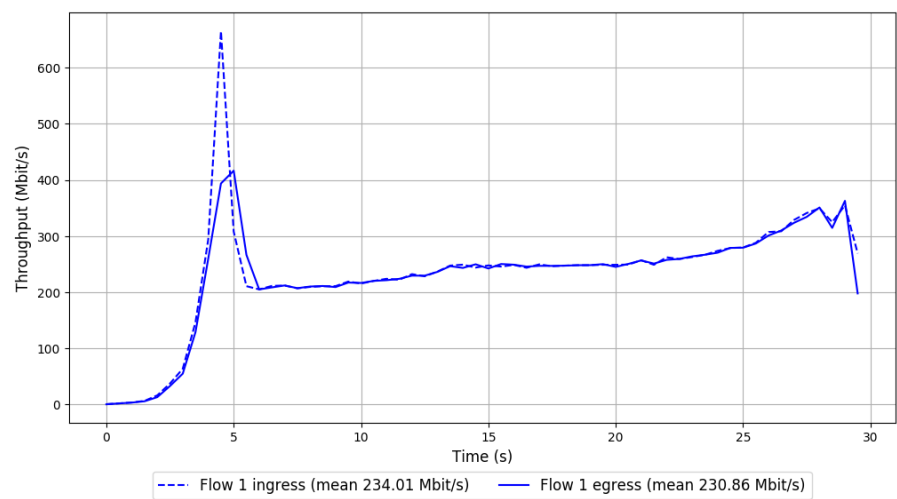
-- Flow 1:

Average throughput: 230.86 Mbit/s

95th percentile per-packet one-way delay: 140.166 ms

Loss rate: 2.01%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-30 11:37:42

End at: 2018-01-30 11:38:12

Below is generated by plot.py at 2018-01-30 16:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.76 Mbit/s

95th percentile per-packet one-way delay: 116.198 ms

Loss rate: 1.01%

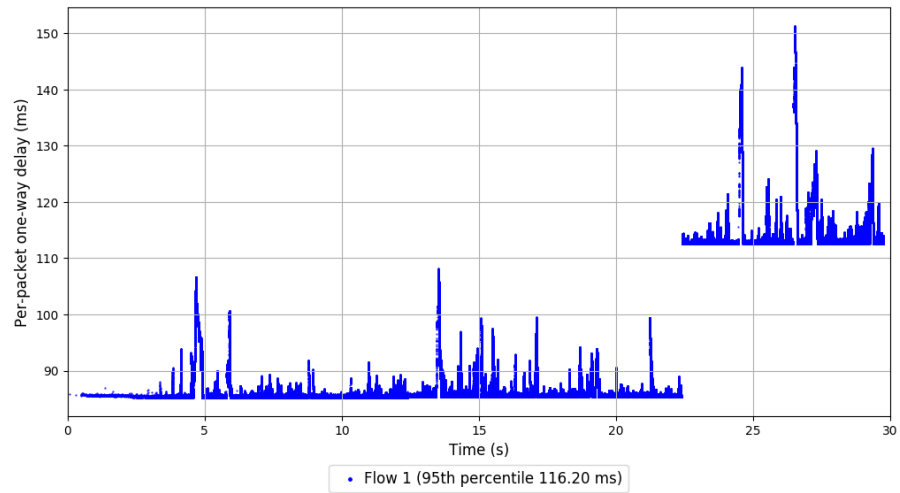
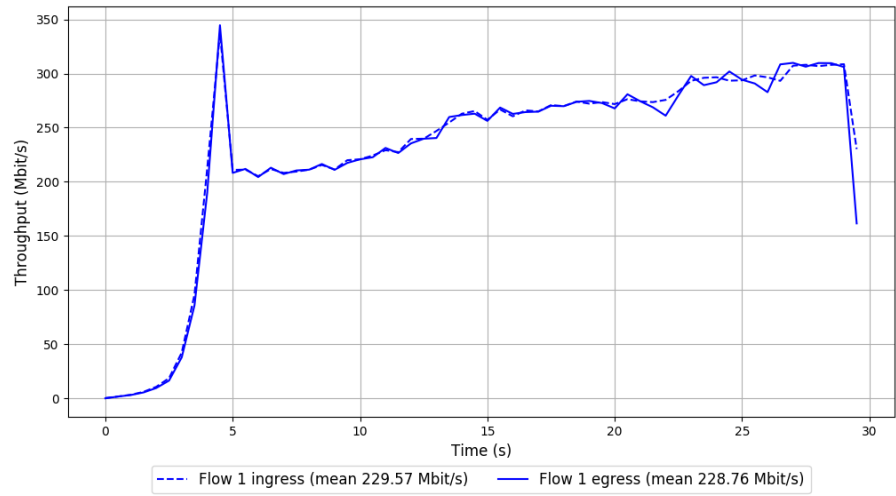
-- Flow 1:

Average throughput: 228.76 Mbit/s

95th percentile per-packet one-way delay: 116.198 ms

Loss rate: 1.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-30 11:52:30

End at: 2018-01-30 11:53:00

Below is generated by plot.py at 2018-01-30 16:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.37 Mbit/s

95th percentile per-packet one-way delay: 167.381 ms

Loss rate: 1.65%

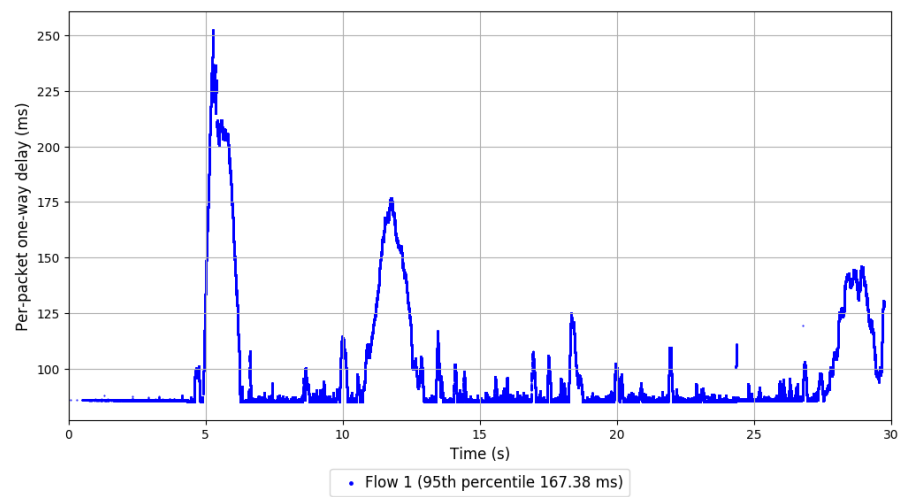
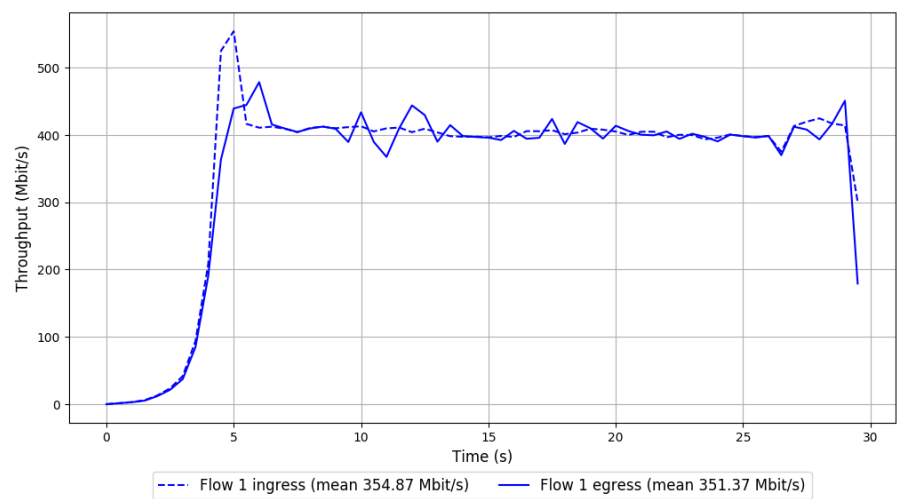
-- Flow 1:

Average throughput: 351.37 Mbit/s

95th percentile per-packet one-way delay: 167.381 ms

Loss rate: 1.65%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-30 12:07:25

End at: 2018-01-30 12:07:55

Below is generated by plot.py at 2018-01-30 16:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.03 Mbit/s

95th percentile per-packet one-way delay: 177.534 ms

Loss rate: 1.19%

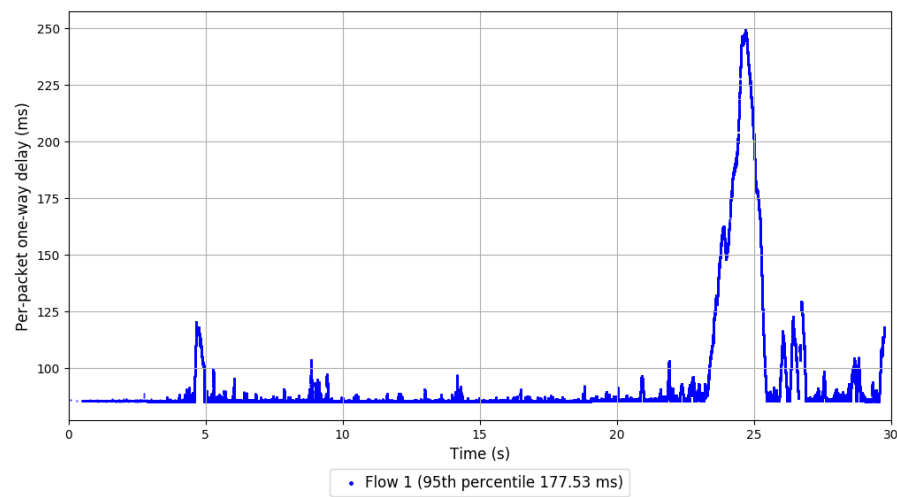
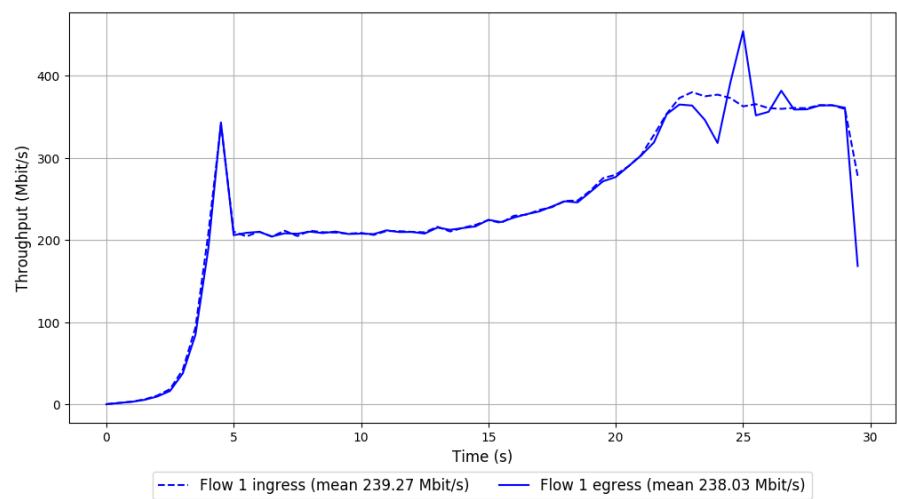
-- Flow 1:

Average throughput: 238.03 Mbit/s

95th percentile per-packet one-way delay: 177.534 ms

Loss rate: 1.19%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-30 12:21:55

End at: 2018-01-30 12:22:25

Below is generated by plot.py at 2018-01-30 16:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.93 Mbit/s

95th percentile per-packet one-way delay: 106.093 ms

Loss rate: 2.05%

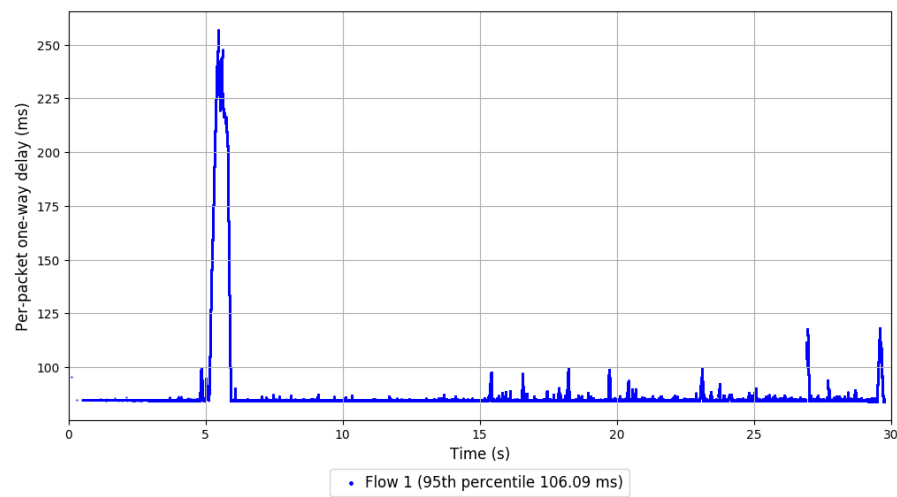
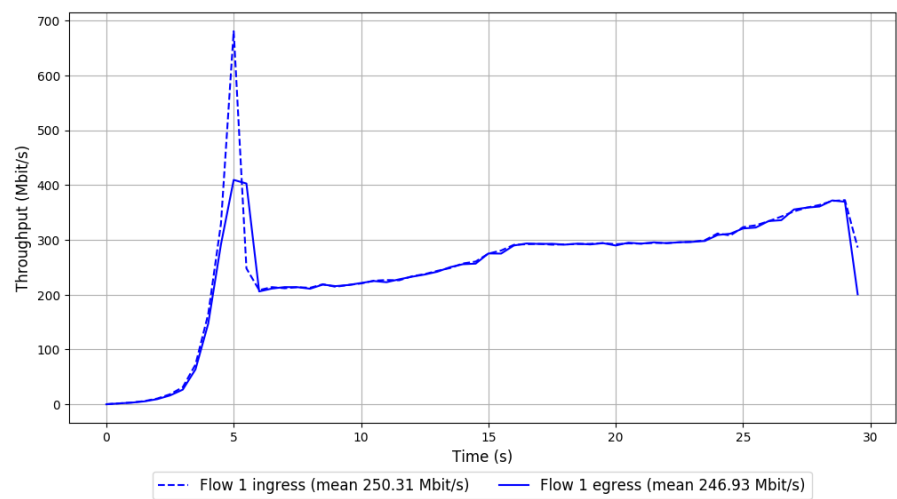
-- Flow 1:

Average throughput: 246.93 Mbit/s

95th percentile per-packet one-way delay: 106.093 ms

Loss rate: 2.05%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-30 12:36:28

End at: 2018-01-30 12:36:58

Below is generated by plot.py at 2018-01-30 16:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.66 Mbit/s

95th percentile per-packet one-way delay: 126.490 ms

Loss rate: 2.15%

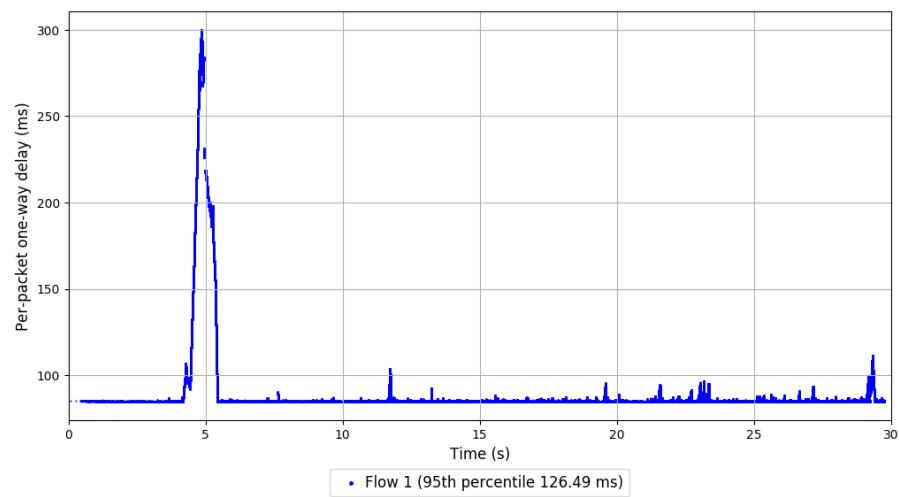
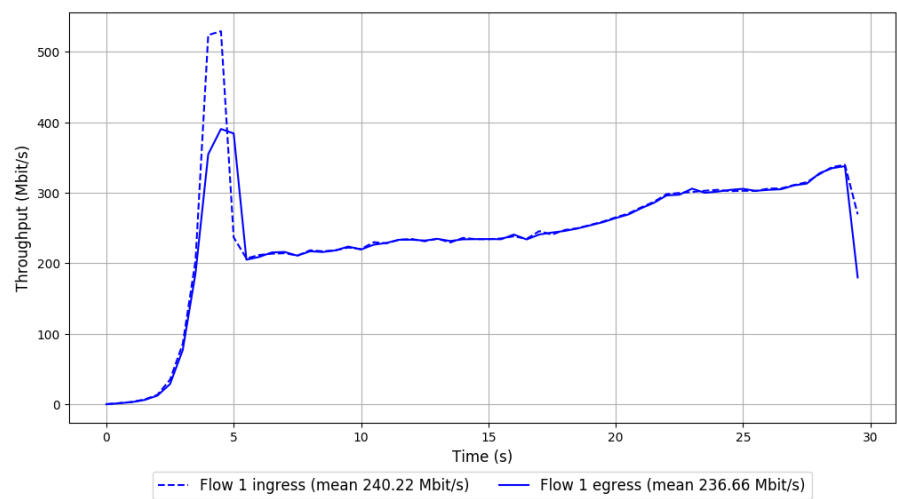
-- Flow 1:

Average throughput: 236.66 Mbit/s

95th percentile per-packet one-way delay: 126.490 ms

Loss rate: 2.15%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-30 12:51:12

End at: 2018-01-30 12:51:42

Below is generated by plot.py at 2018-01-30 16:50:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.49 Mbit/s

95th percentile per-packet one-way delay: 163.268 ms

Loss rate: 0.75%

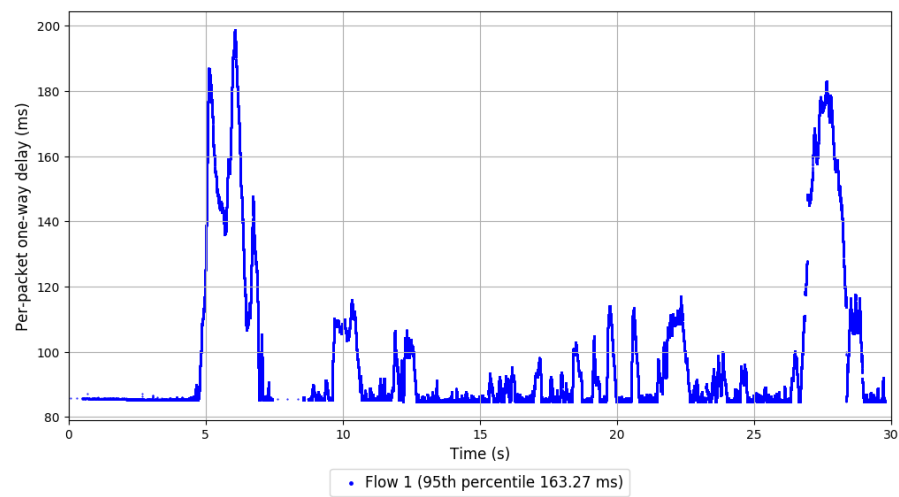
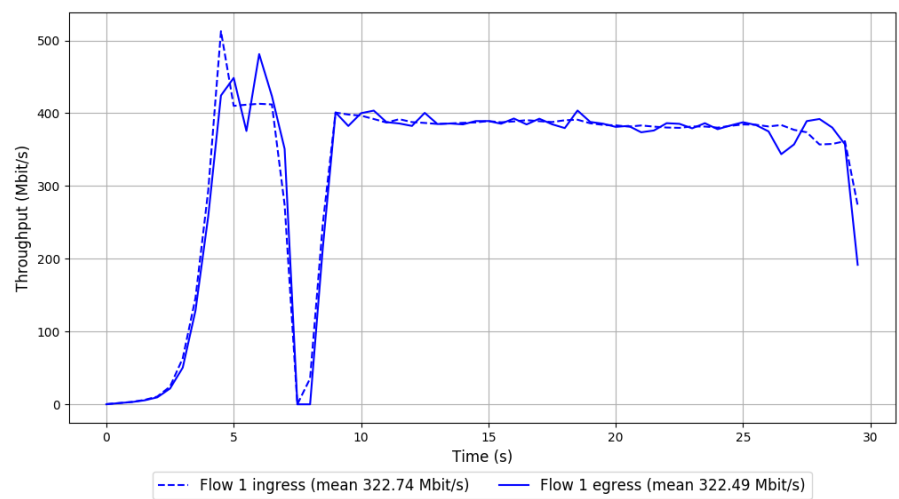
-- Flow 1:

Average throughput: 322.49 Mbit/s

95th percentile per-packet one-way delay: 163.268 ms

Loss rate: 0.75%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-30 13:05:57

End at: 2018-01-30 13:06:27

Below is generated by plot.py at 2018-01-30 16:50:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.11 Mbit/s

95th percentile per-packet one-way delay: 113.041 ms

Loss rate: 1.87%

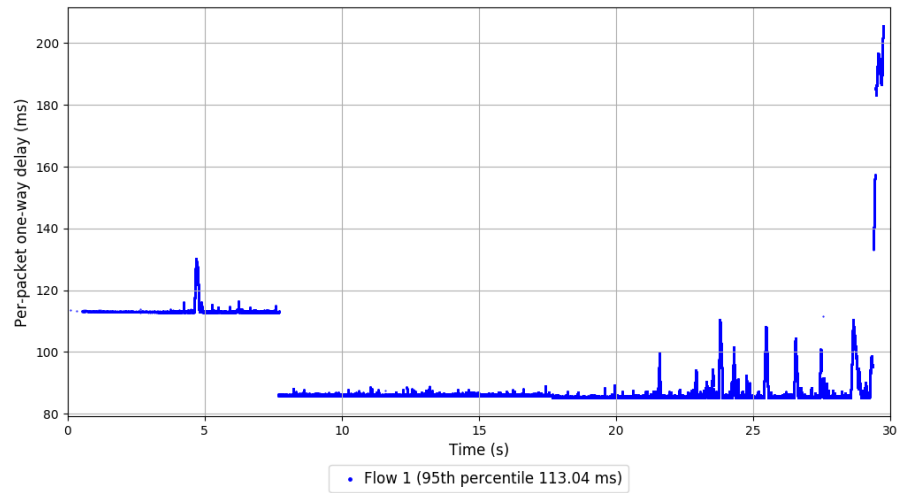
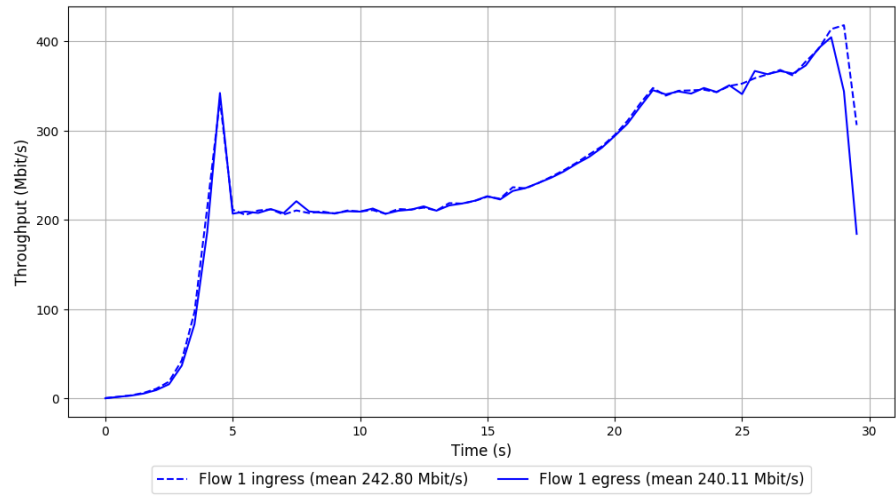
-- Flow 1:

Average throughput: 240.11 Mbit/s

95th percentile per-packet one-way delay: 113.041 ms

Loss rate: 1.87%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-30 13:20:24

End at: 2018-01-30 13:20:54

Below is generated by plot.py at 2018-01-30 16:50:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.49 Mbit/s

95th percentile per-packet one-way delay: 129.430 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 270.49 Mbit/s

95th percentile per-packet one-way delay: 129.430 ms

Loss rate: 1.96%

Run 10: Report of Vivace-LTE — Data Link

