

Pantheon Report

Generated at 2018-04-24 10:37:22 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

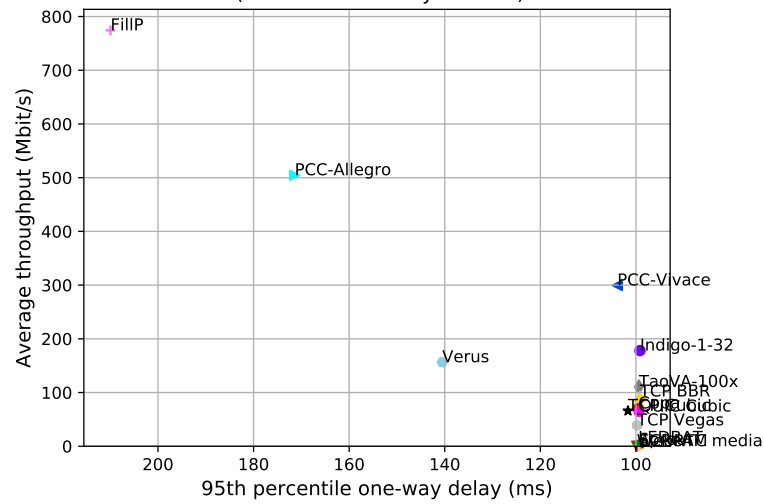
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

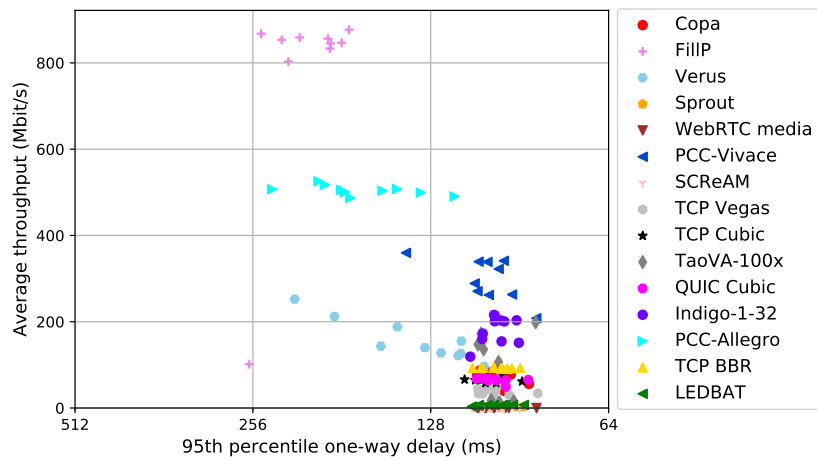
Git summary:

```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



test from GCE Tokyo Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	92.61	99.19	0.83
TCP Cubic	10	65.89	101.67	0.99
LEDBAT	10	6.38	99.54	1.53
PCC-Allegro	10	504.53	171.40	1.71
QUIC Cubic	9	64.59	99.36	0.97
SCReAM	10	0.22	99.38	0.76
WebRTC media	10	0.06	99.83	0.00
Sprout	10	2.67	99.41	0.83
TaoVA-100x	10	110.35	99.39	0.88
TCP Vegas	10	38.79	99.77	0.77
Verus	10	156.38	140.54	1.06
Copa	10	70.40	99.50	0.50
FillP	10	774.29	209.93	2.62
Indigo-1-32	10	178.08	99.16	0.78
PCC-Vivace	10	299.40	103.91	0.99
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-24 05:06:33

End at: 2018-04-24 05:07:03

Below is generated by plot.py at 2018-04-24 09:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.76 Mbit/s

95th percentile per-packet one-way delay: 108.751 ms

Loss rate: 0.78%

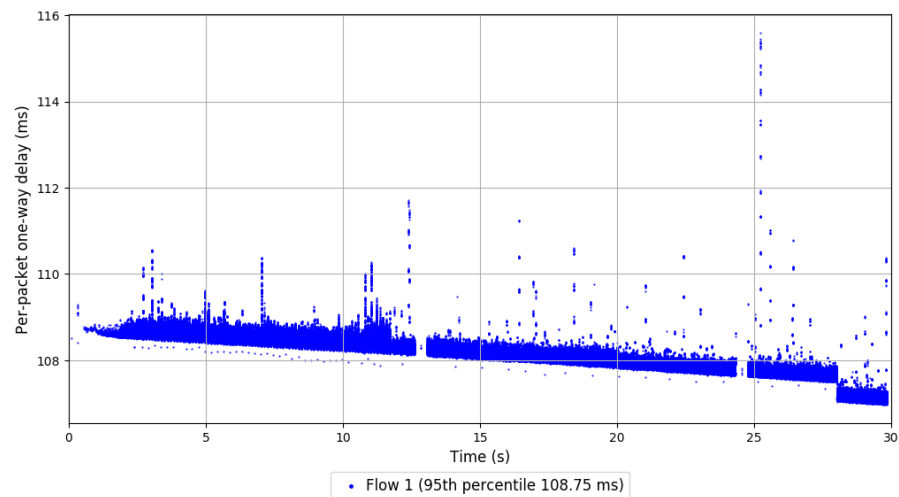
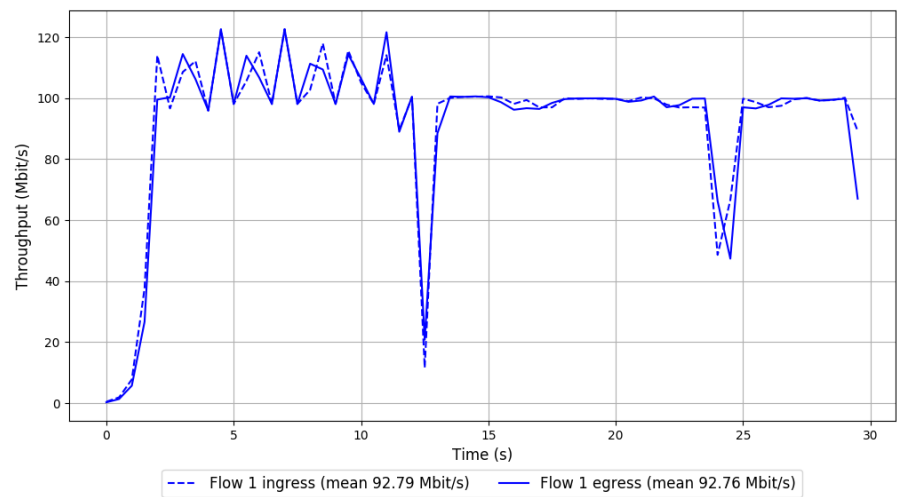
-- Flow 1:

Average throughput: 92.76 Mbit/s

95th percentile per-packet one-way delay: 108.751 ms

Loss rate: 0.78%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-24 05:20:22

End at: 2018-04-24 05:20:52

Below is generated by plot.py at 2018-04-24 09:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 100.311 ms

Loss rate: 0.79%

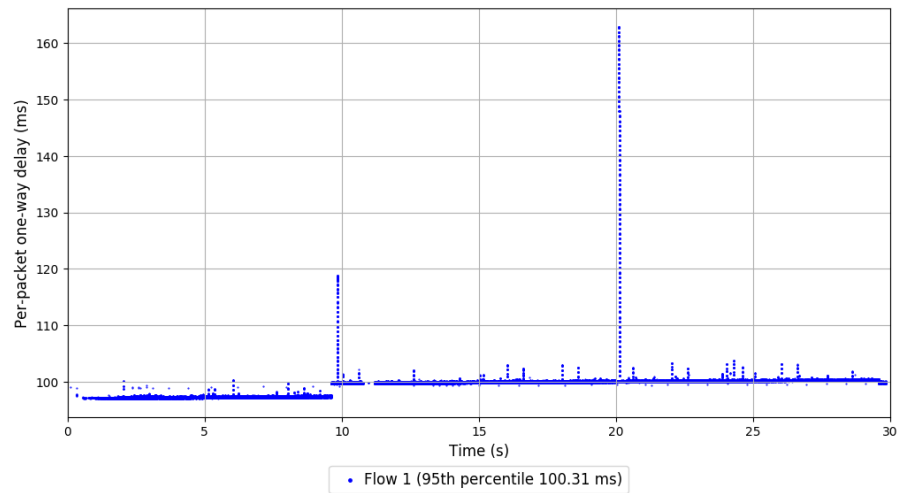
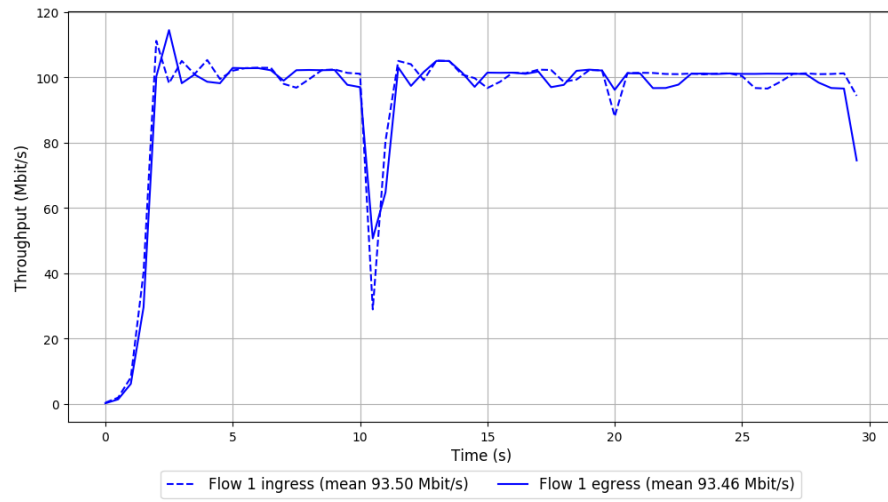
-- Flow 1:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 100.311 ms

Loss rate: 0.79%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 05:34:20

End at: 2018-04-24 05:34:50

Below is generated by plot.py at 2018-04-24 09:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.43 Mbit/s

95th percentile per-packet one-way delay: 94.943 ms

Loss rate: 0.80%

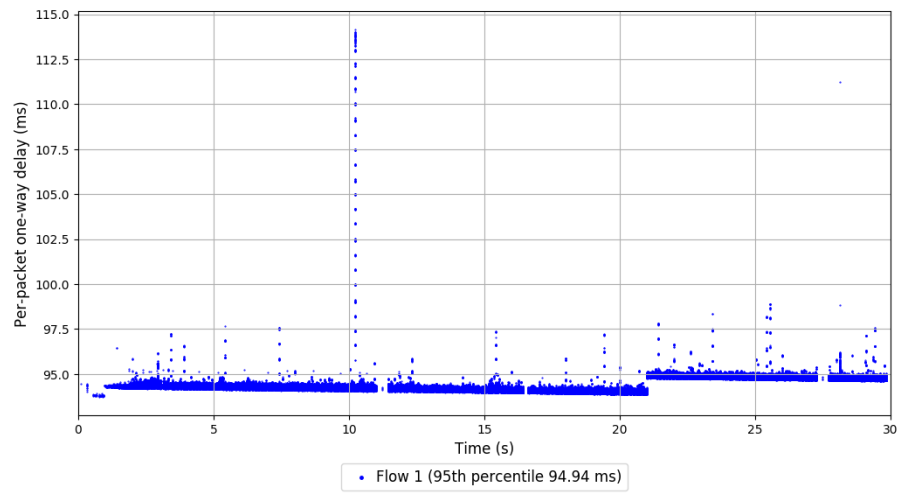
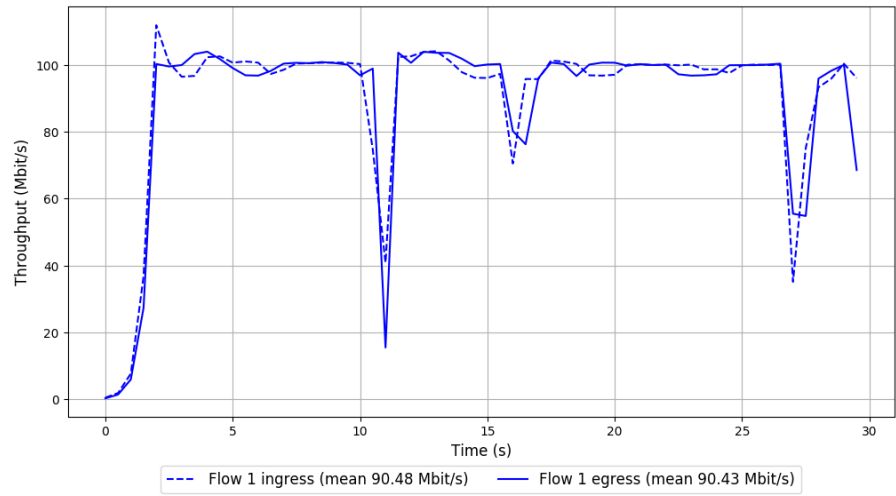
-- Flow 1:

Average throughput: 90.43 Mbit/s

95th percentile per-packet one-way delay: 94.943 ms

Loss rate: 0.80%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-24 05:48:08

End at: 2018-04-24 05:48:38

Below is generated by plot.py at 2018-04-24 09:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 97.382 ms

Loss rate: 0.87%

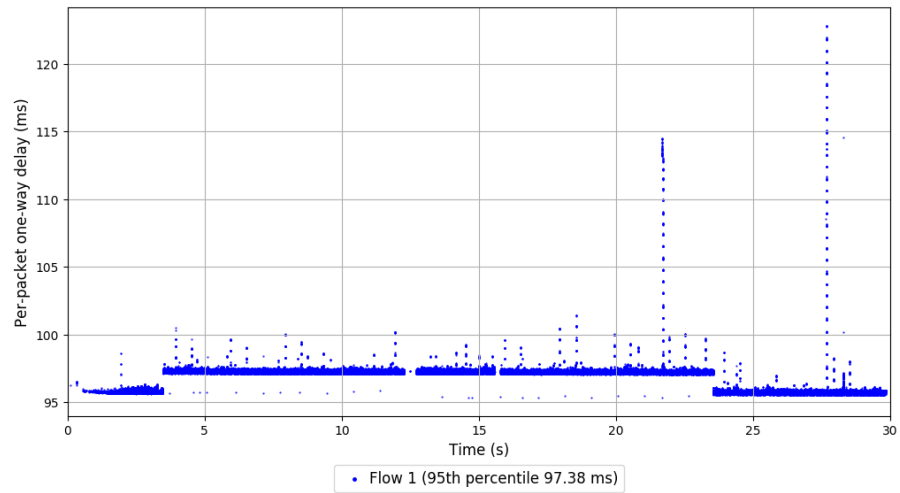
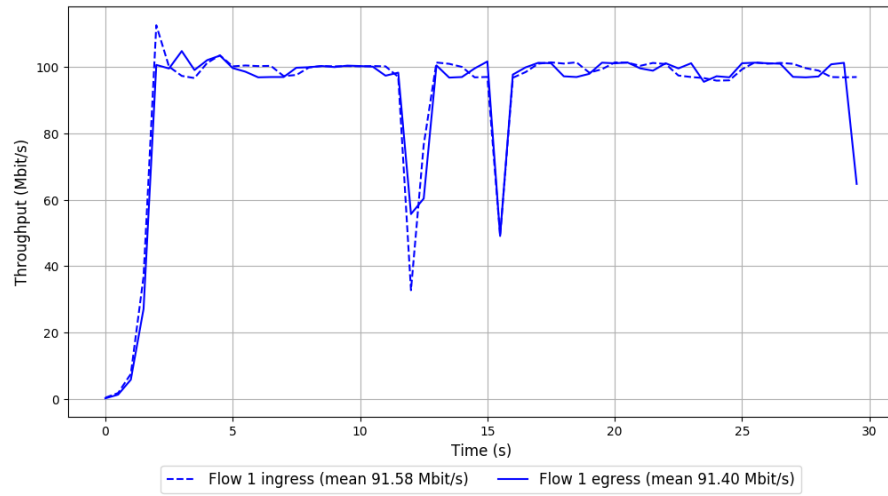
-- Flow 1:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 97.382 ms

Loss rate: 0.87%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-24 06:01:42

End at: 2018-04-24 06:02:12

Below is generated by plot.py at 2018-04-24 09:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.64 Mbit/s

95th percentile per-packet one-way delay: 90.278 ms

Loss rate: 0.78%

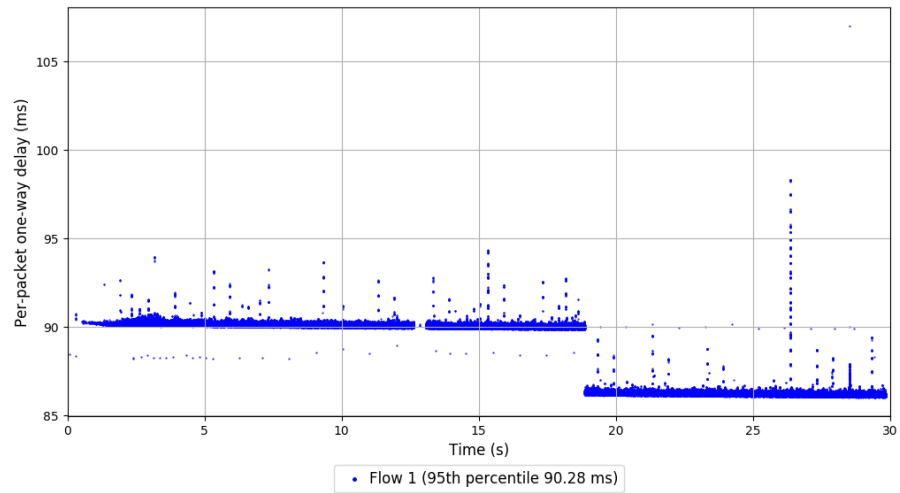
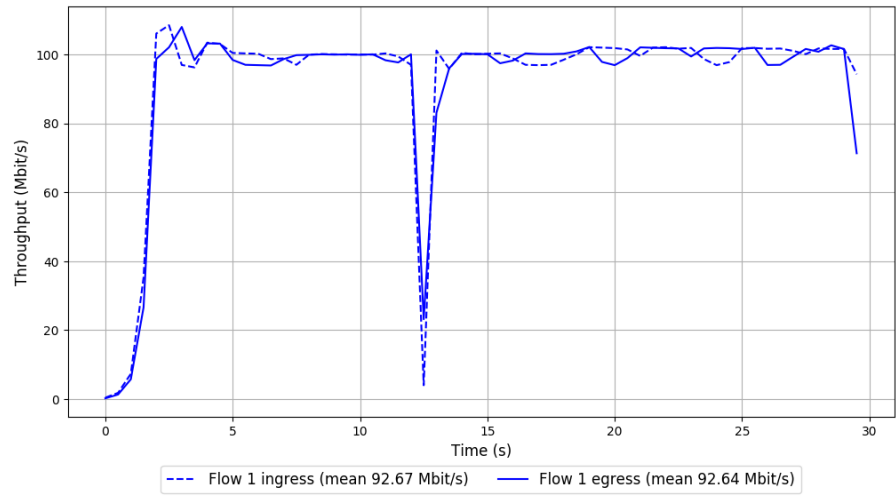
-- Flow 1:

Average throughput: 92.64 Mbit/s

95th percentile per-packet one-way delay: 90.278 ms

Loss rate: 0.78%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 06:15:39

End at: 2018-04-24 06:16:09

Below is generated by plot.py at 2018-04-24 09:49:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 93.292 ms

Loss rate: 0.87%

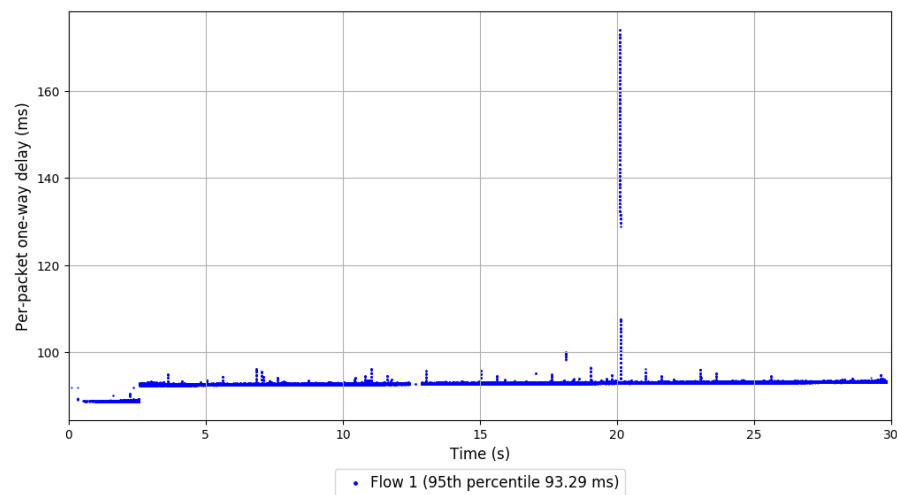
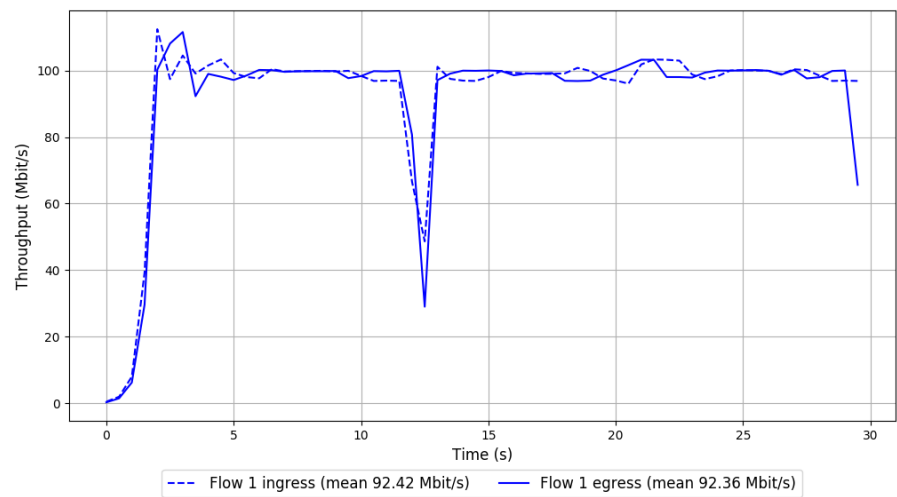
-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 93.292 ms

Loss rate: 0.87%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-24 06:29:34

End at: 2018-04-24 06:30:04

Below is generated by plot.py at 2018-04-24 09:49:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 100.121 ms

Loss rate: 0.86%

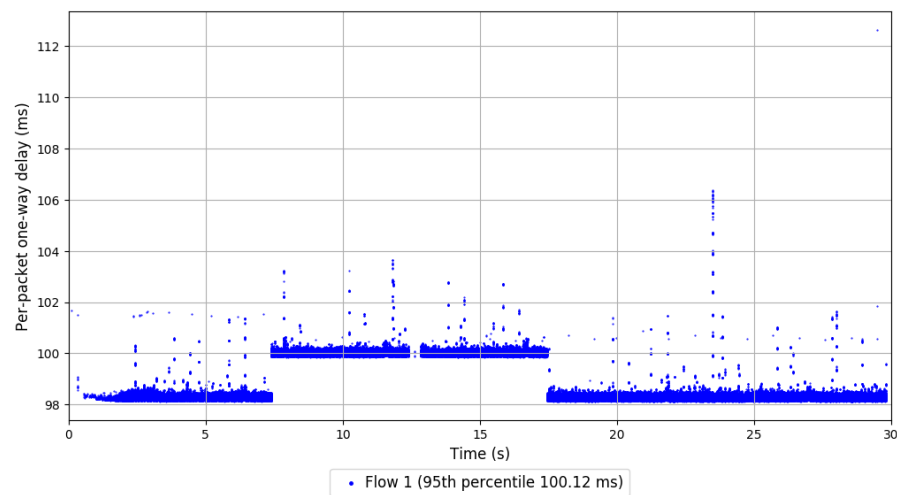
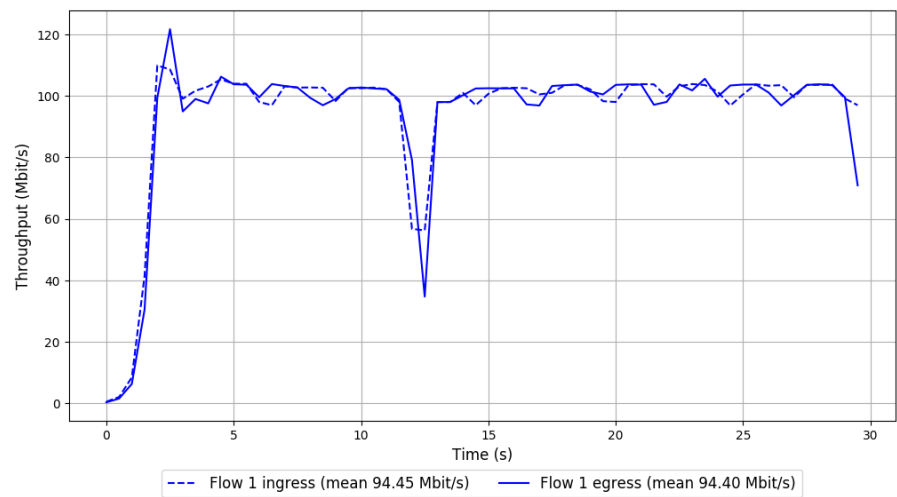
-- Flow 1:

Average throughput: 94.40 Mbit/s

95th percentile per-packet one-way delay: 100.121 ms

Loss rate: 0.86%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-24 06:43:31

End at: 2018-04-24 06:44:01

Below is generated by plot.py at 2018-04-24 09:49:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 96.937 ms

Loss rate: 0.86%

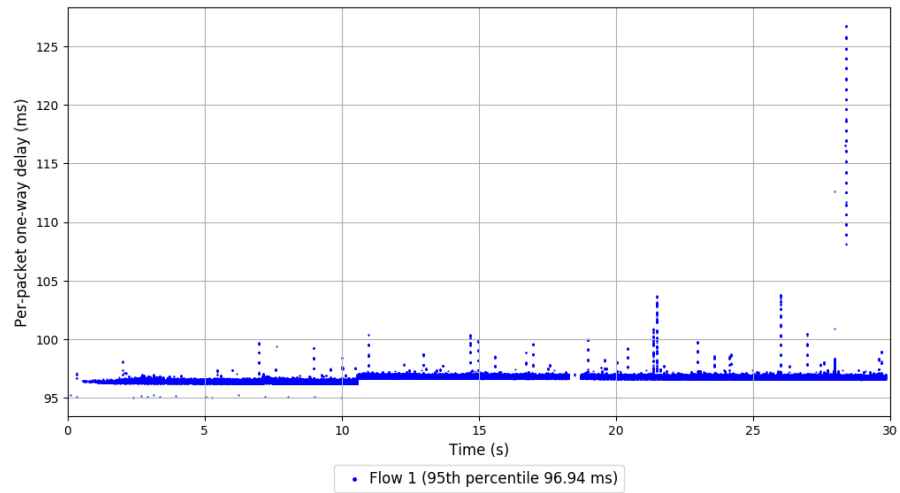
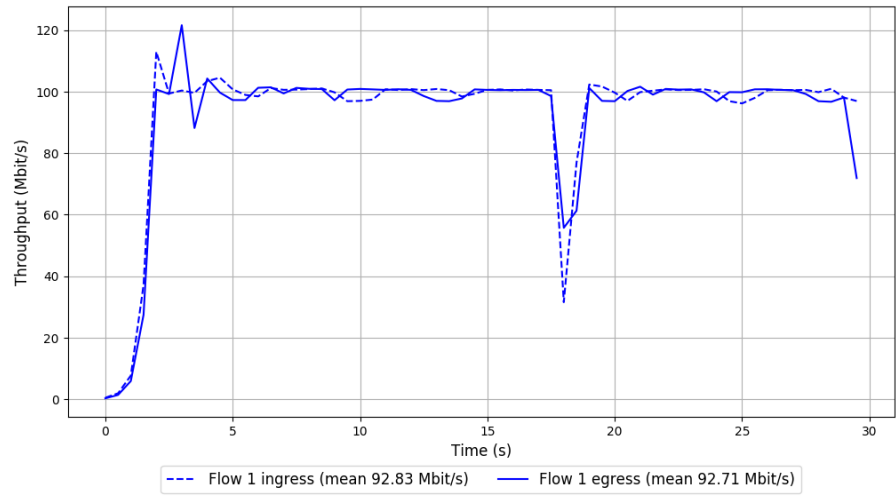
-- Flow 1:

Average throughput: 92.71 Mbit/s

95th percentile per-packet one-way delay: 96.937 ms

Loss rate: 0.86%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-24 06:56:50

End at: 2018-04-24 06:57:21

Below is generated by plot.py at 2018-04-24 09:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 105.293 ms

Loss rate: 0.79%

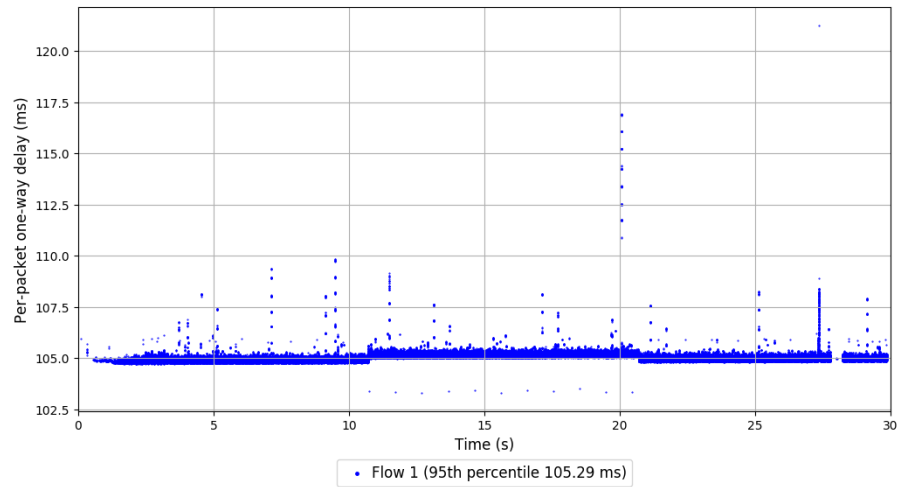
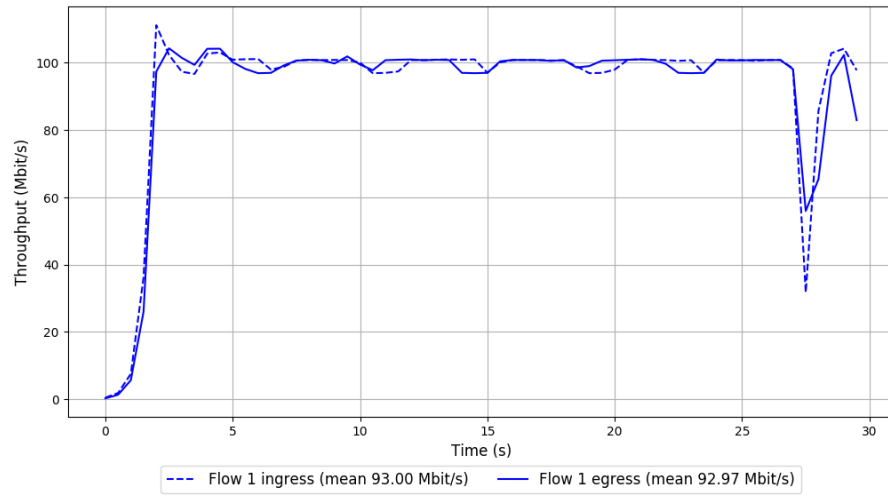
-- Flow 1:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 105.293 ms

Loss rate: 0.79%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-24 07:10:46

End at: 2018-04-24 07:11:16

Below is generated by plot.py at 2018-04-24 09:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 104.557 ms

Loss rate: 0.87%

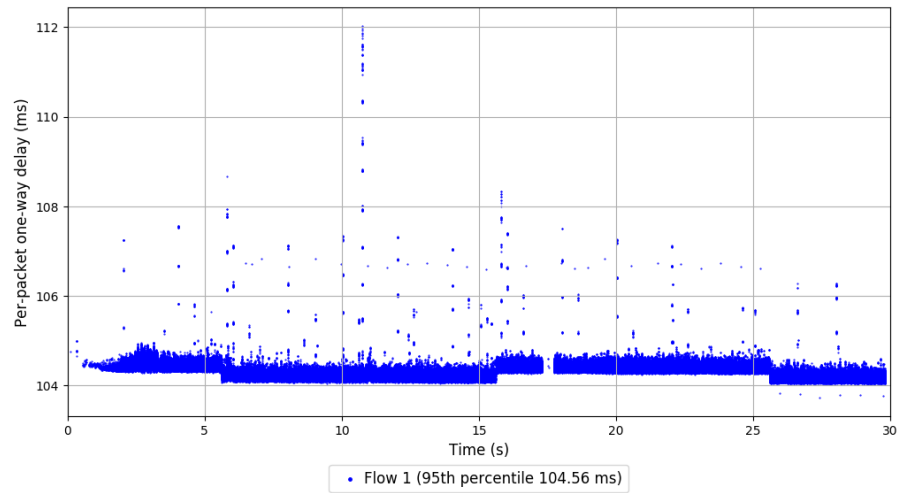
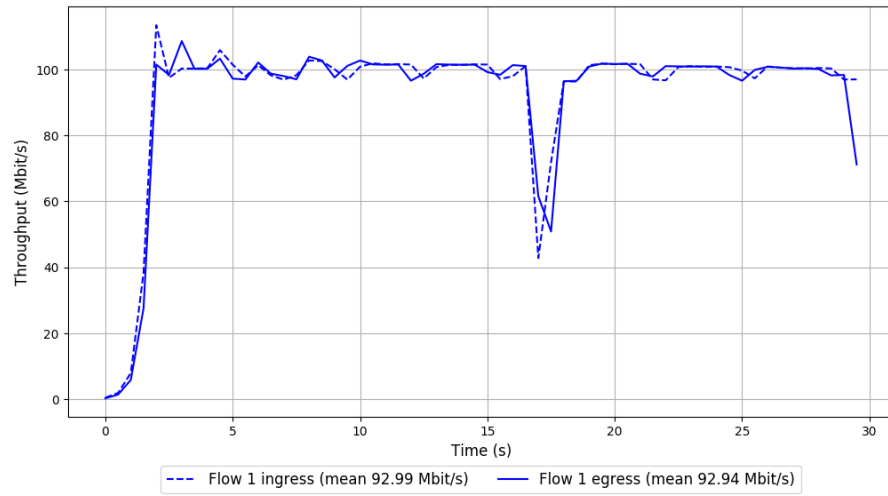
-- Flow 1:

Average throughput: 92.94 Mbit/s

95th percentile per-packet one-way delay: 104.557 ms

Loss rate: 0.87%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 05:11:31

End at: 2018-04-24 05:12:01

Below is generated by plot.py at 2018-04-24 09:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 104.574 ms

Loss rate: 1.16%

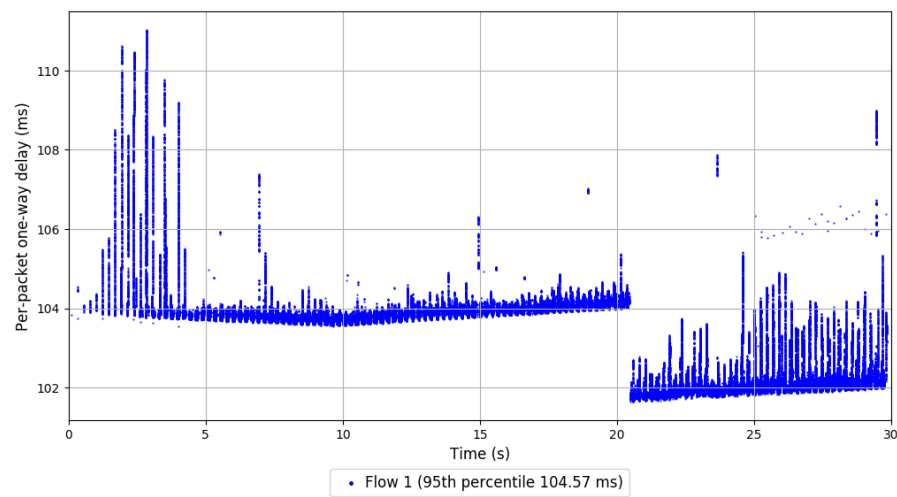
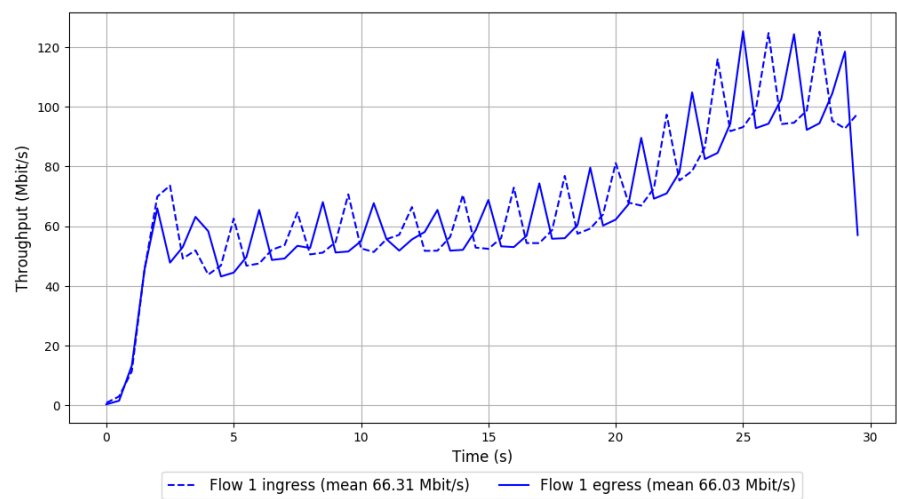
-- Flow 1:

Average throughput: 66.03 Mbit/s

95th percentile per-packet one-way delay: 104.574 ms

Loss rate: 1.16%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 05:25:19

End at: 2018-04-24 05:25:49

Below is generated by plot.py at 2018-04-24 09:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 103.459 ms

Loss rate: 0.81%

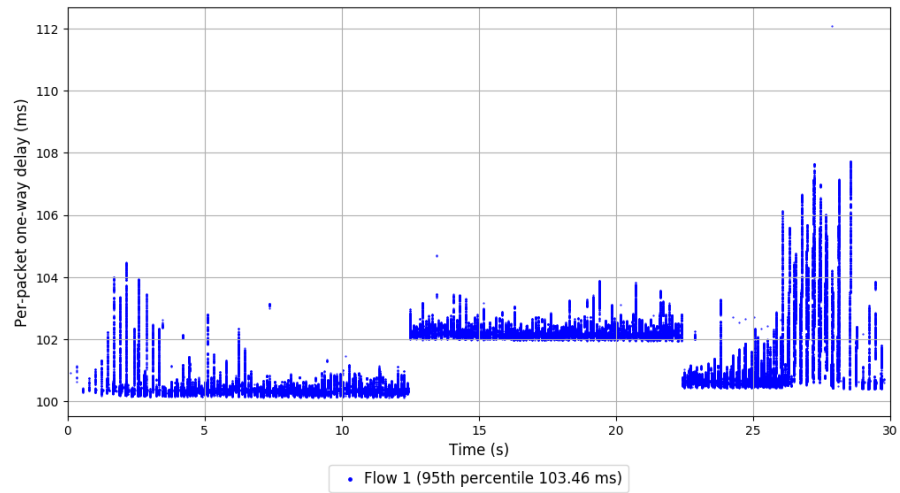
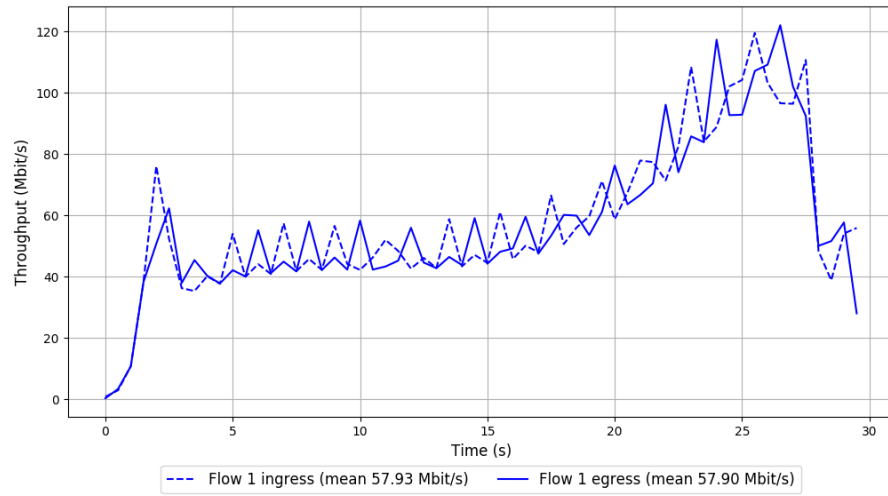
-- Flow 1:

Average throughput: 57.90 Mbit/s

95th percentile per-packet one-way delay: 103.459 ms

Loss rate: 0.81%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 05:39:20

End at: 2018-04-24 05:39:50

Below is generated by plot.py at 2018-04-24 09:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 96.329 ms

Loss rate: 0.71%

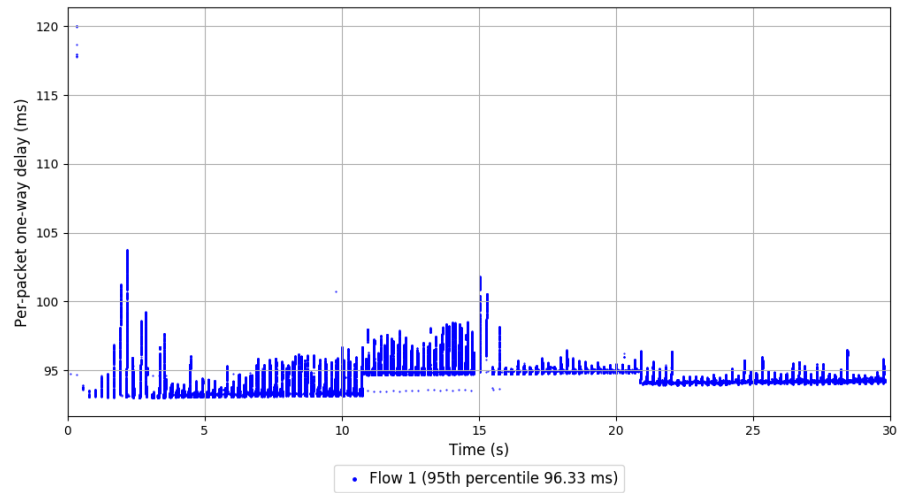
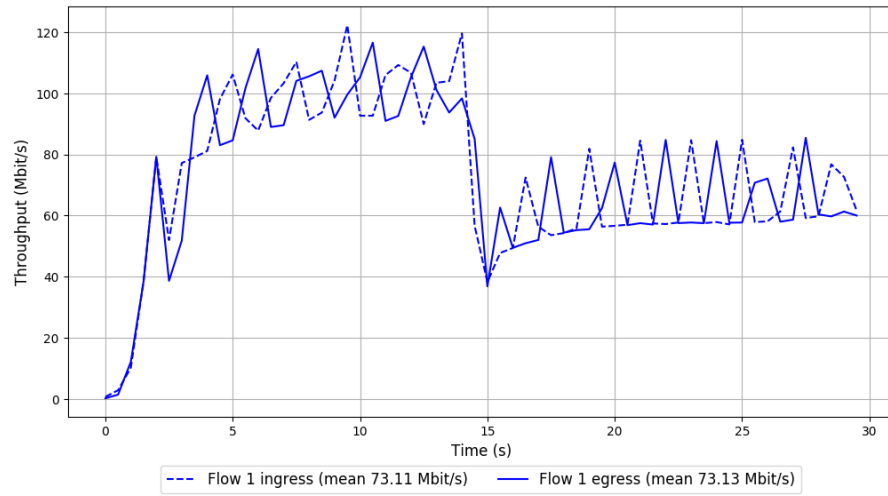
-- Flow 1:

Average throughput: 73.13 Mbit/s

95th percentile per-packet one-way delay: 96.329 ms

Loss rate: 0.71%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 05:53:02

End at: 2018-04-24 05:53:32

Below is generated by plot.py at 2018-04-24 09:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.59 Mbit/s

95th percentile per-packet one-way delay: 96.017 ms

Loss rate: 1.18%

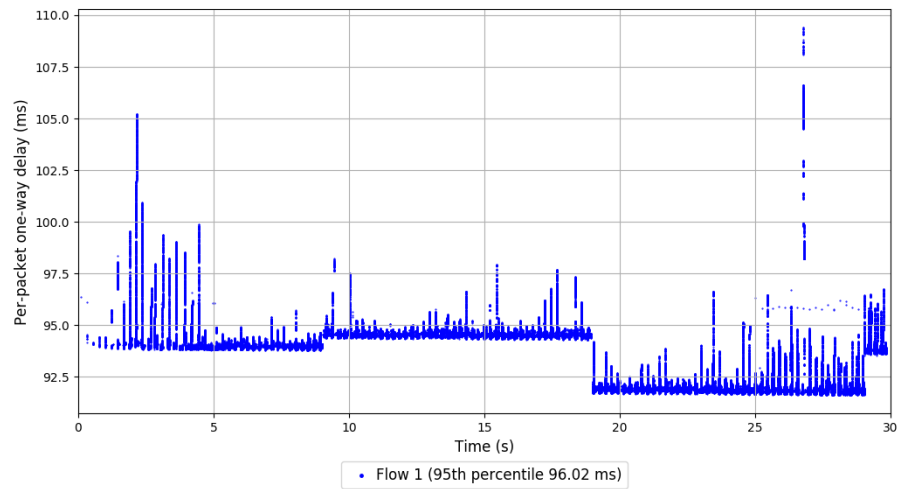
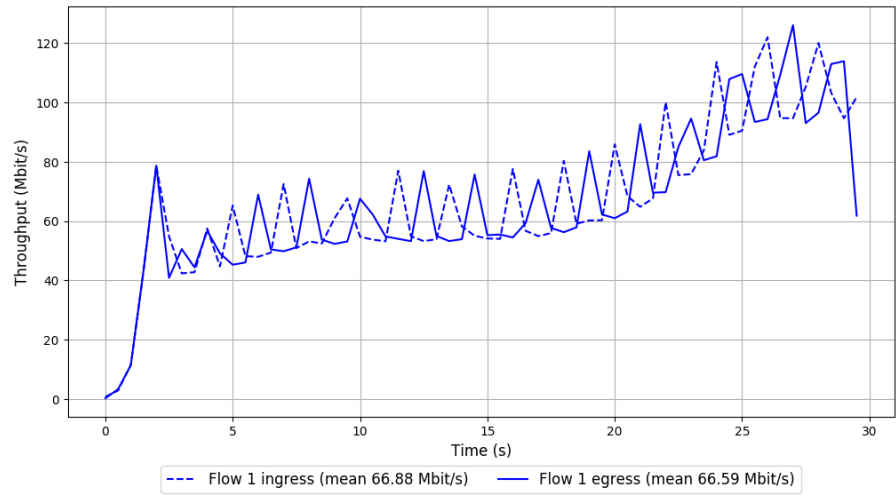
-- Flow 1:

Average throughput: 66.59 Mbit/s

95th percentile per-packet one-way delay: 96.017 ms

Loss rate: 1.18%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 06:06:43

End at: 2018-04-24 06:07:13

Below is generated by plot.py at 2018-04-24 09:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.48 Mbit/s

95th percentile per-packet one-way delay: 89.655 ms

Loss rate: 0.78%

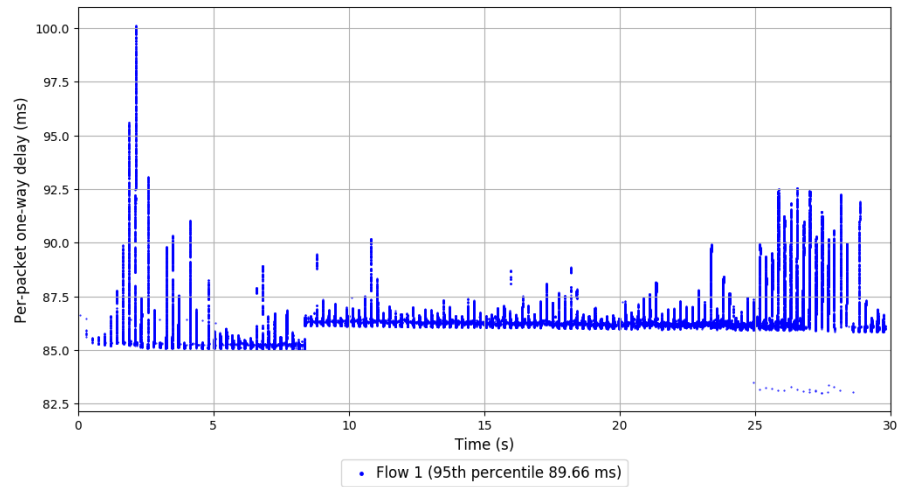
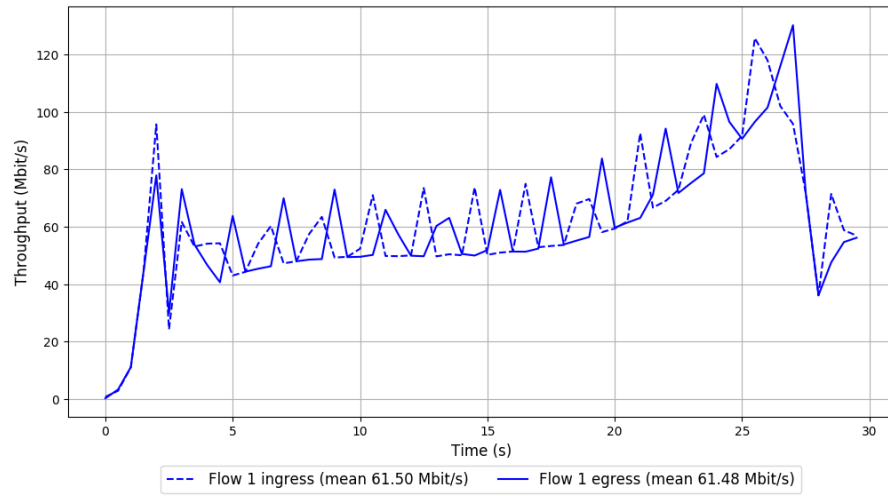
-- Flow 1:

Average throughput: 61.48 Mbit/s

95th percentile per-packet one-way delay: 89.655 ms

Loss rate: 0.78%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 06:20:46

End at: 2018-04-24 06:21:16

Below is generated by plot.py at 2018-04-24 09:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.82 Mbit/s

95th percentile per-packet one-way delay: 99.152 ms

Loss rate: 1.11%

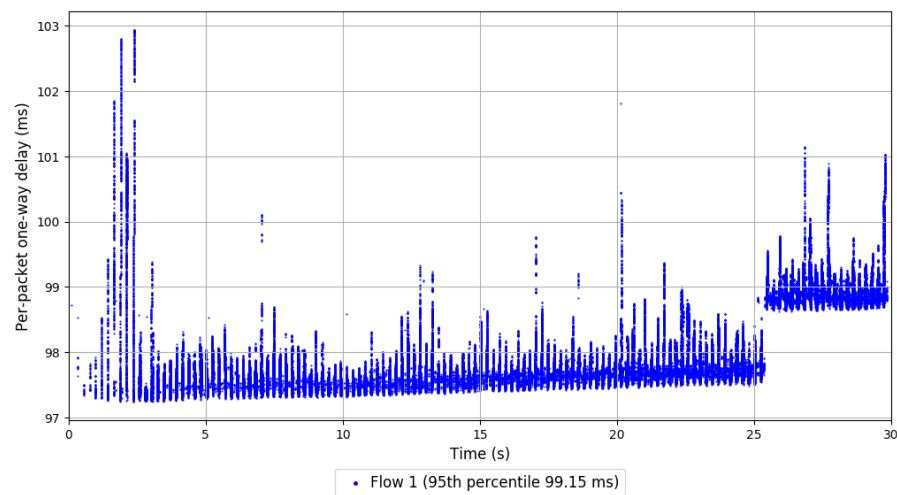
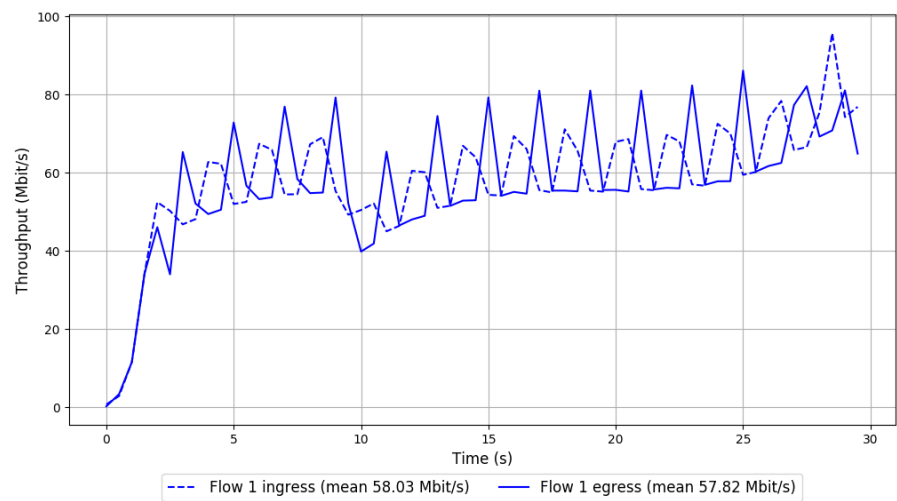
-- Flow 1:

Average throughput: 57.82 Mbit/s

95th percentile per-packet one-way delay: 99.152 ms

Loss rate: 1.11%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 06:34:33

End at: 2018-04-24 06:35:03

Below is generated by plot.py at 2018-04-24 09:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 103.543 ms

Loss rate: 1.20%

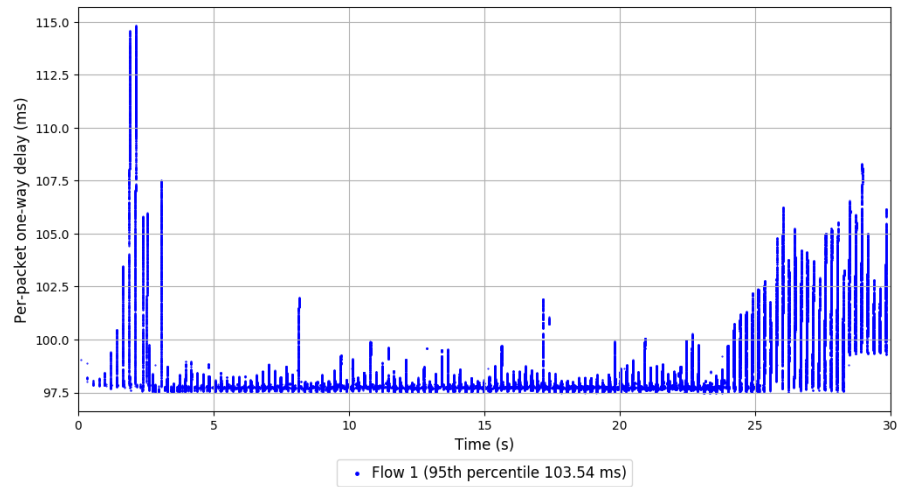
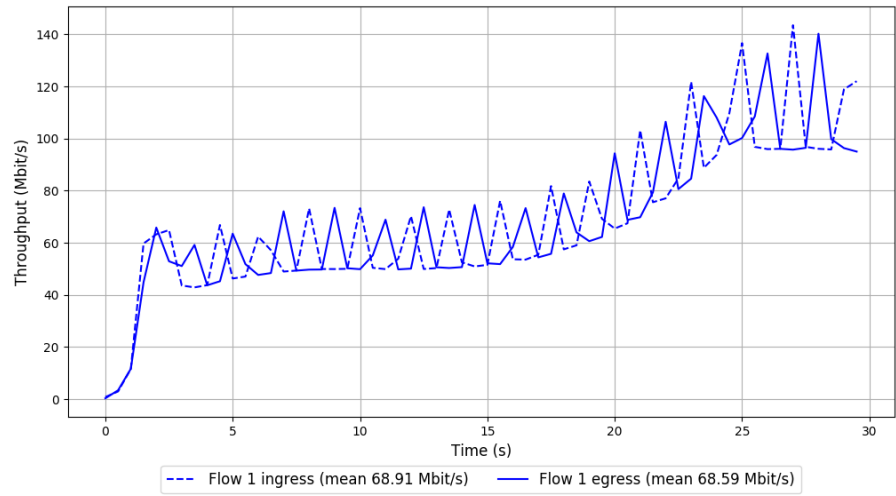
-- Flow 1:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 103.543 ms

Loss rate: 1.20%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 06:48:24

End at: 2018-04-24 06:48:54

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 104.129 ms

Loss rate: 1.05%

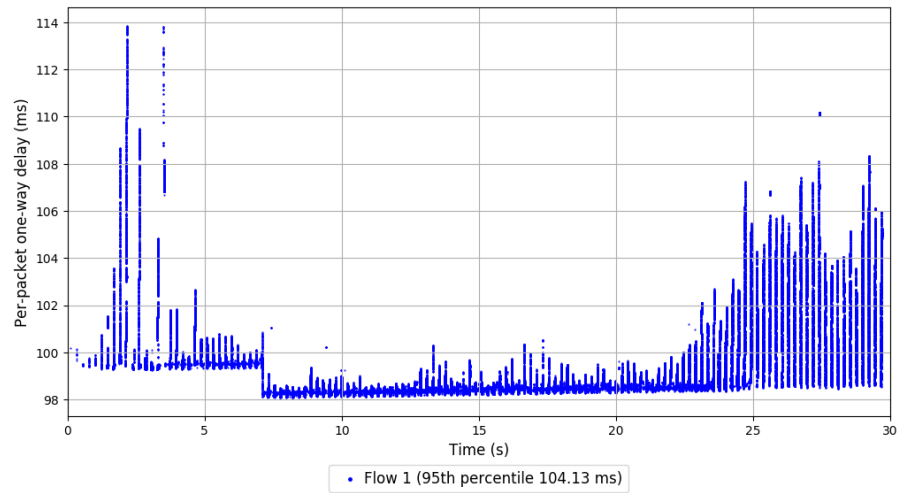
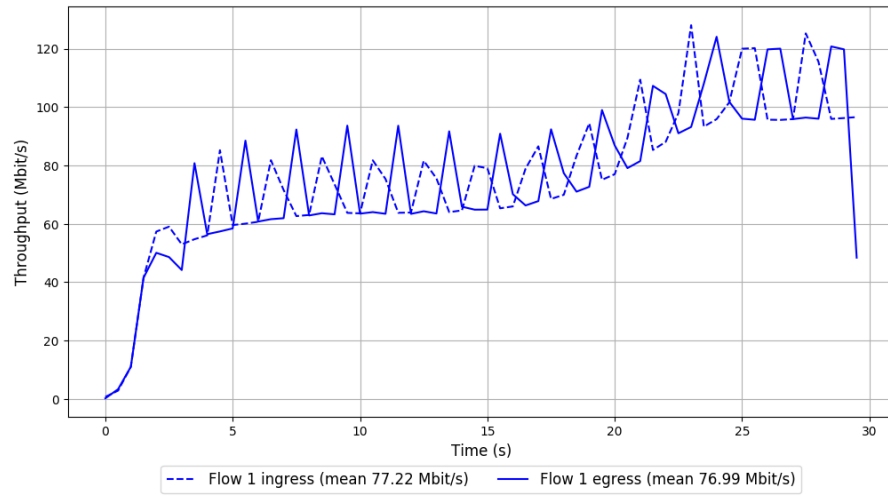
-- Flow 1:

Average throughput: 76.99 Mbit/s

95th percentile per-packet one-way delay: 104.129 ms

Loss rate: 1.05%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 07:01:49

End at: 2018-04-24 07:02:19

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.05 Mbit/s

95th percentile per-packet one-way delay: 112.187 ms

Loss rate: 1.22%

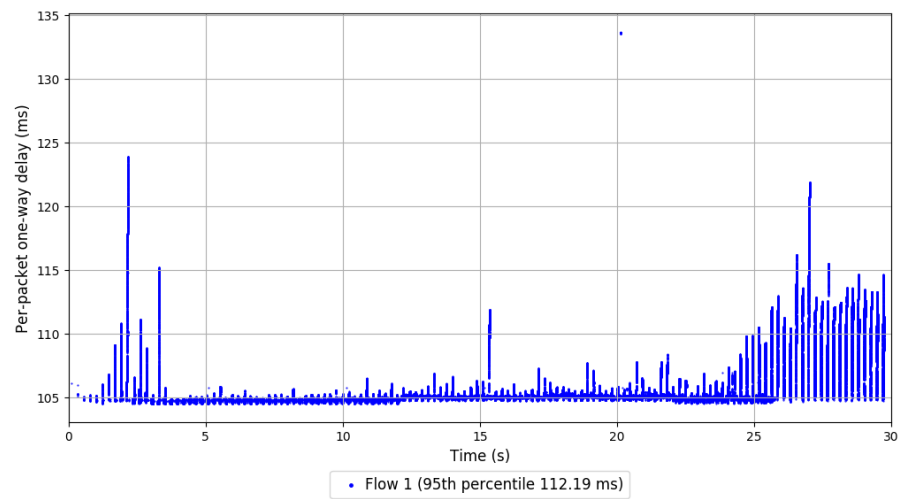
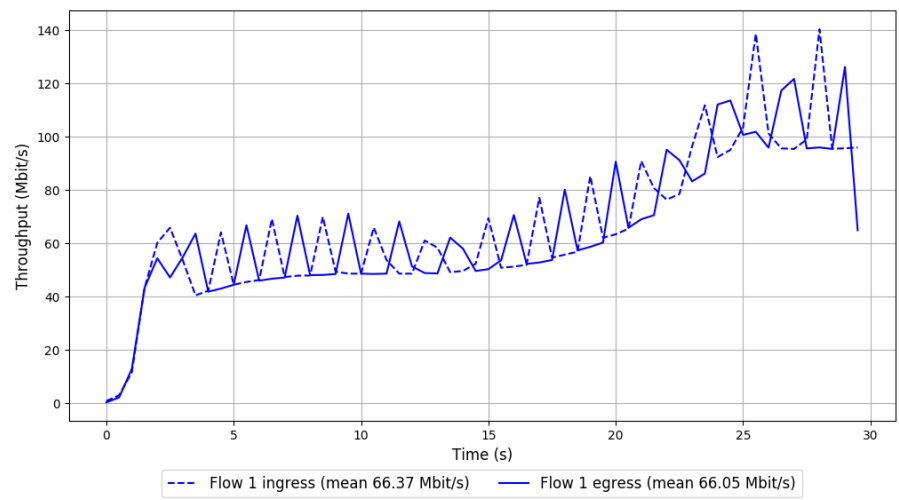
-- Flow 1:

Average throughput: 66.05 Mbit/s

95th percentile per-packet one-way delay: 112.187 ms

Loss rate: 1.22%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 07:15:50

End at: 2018-04-24 07:16:20

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 107.628 ms

Loss rate: 0.71%

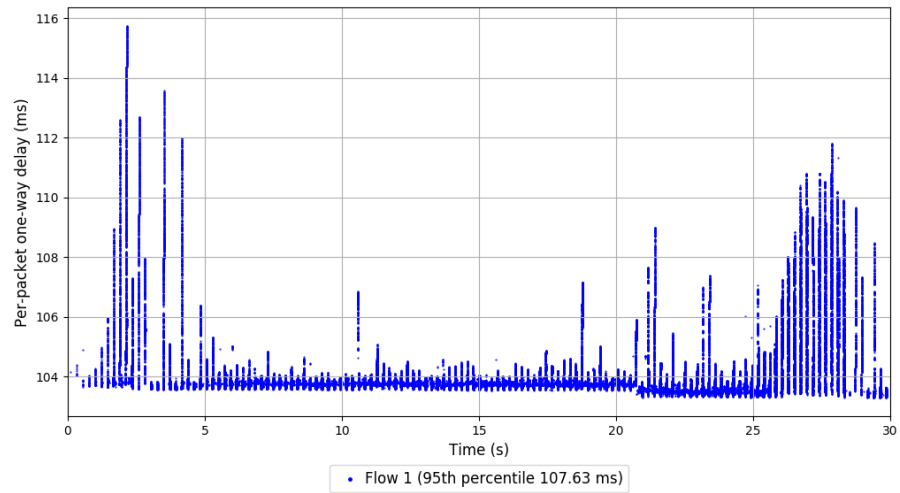
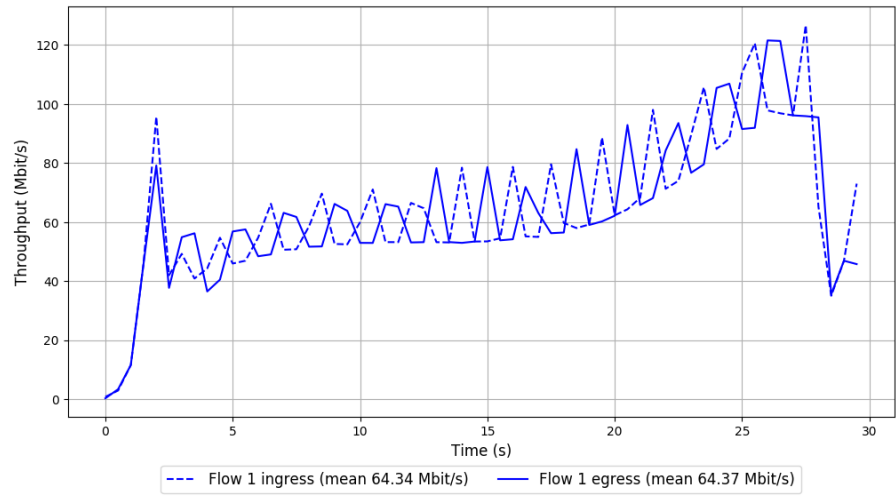
-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 107.628 ms

Loss rate: 0.71%

Run 10: Report of TCP Cubic — Data Link

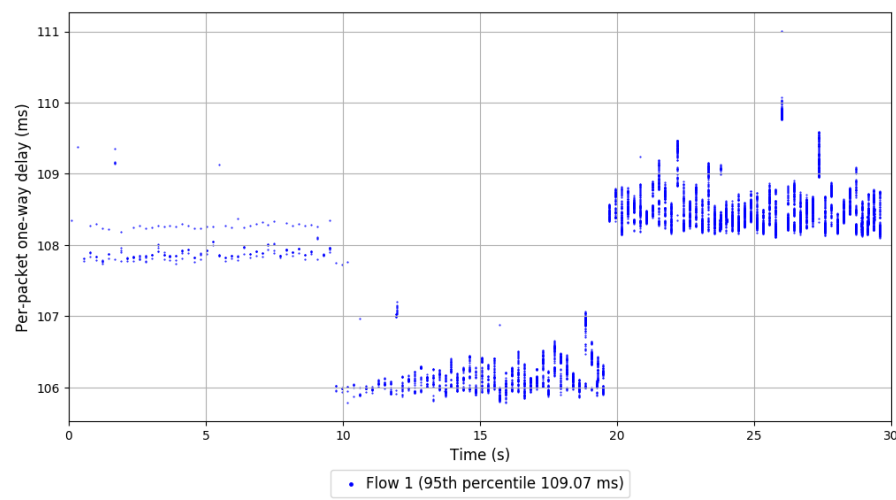
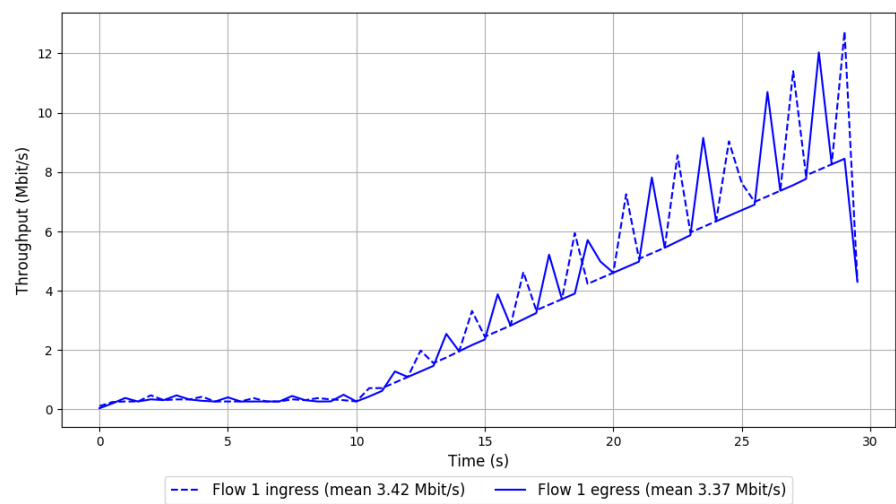


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 05:08:12
End at: 2018-04-24 05:08:42

# Below is generated by plot.py at 2018-04-24 09:51:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 109.073 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 109.073 ms
Loss rate: 2.14%
```


Run 1: Report of LEDBAT — Data Link

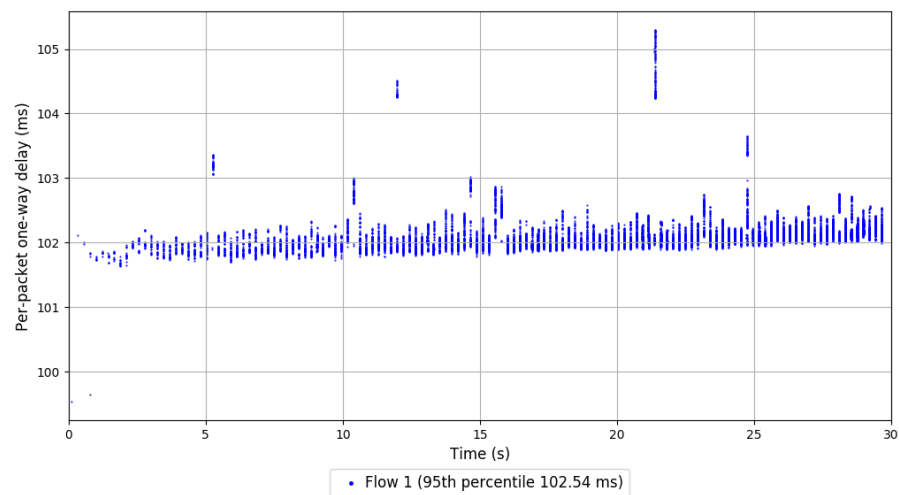
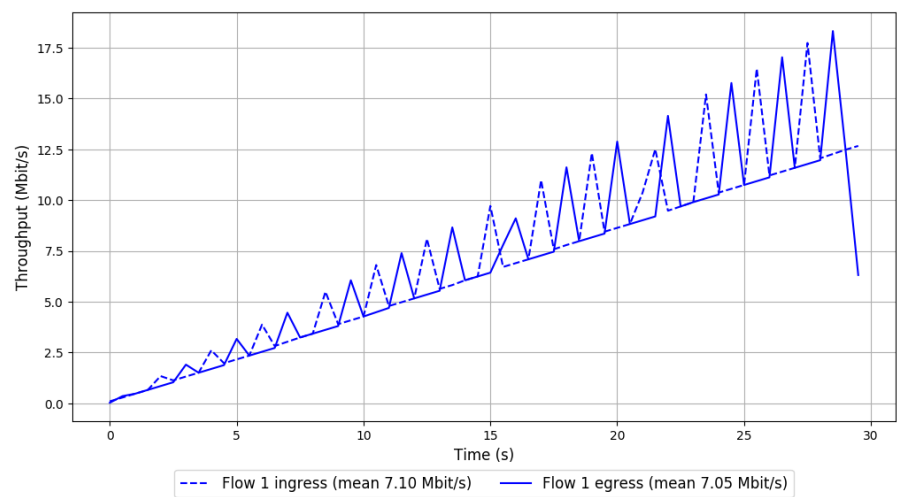


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-24 05:22:00
End at: 2018-04-24 05:22:30

# Below is generated by plot.py at 2018-04-24 09:51:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 102.542 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 102.542 ms
Loss rate: 1.50%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-24 05:35:59

End at: 2018-04-24 05:36:29

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 92.895 ms

Loss rate: 1.50%

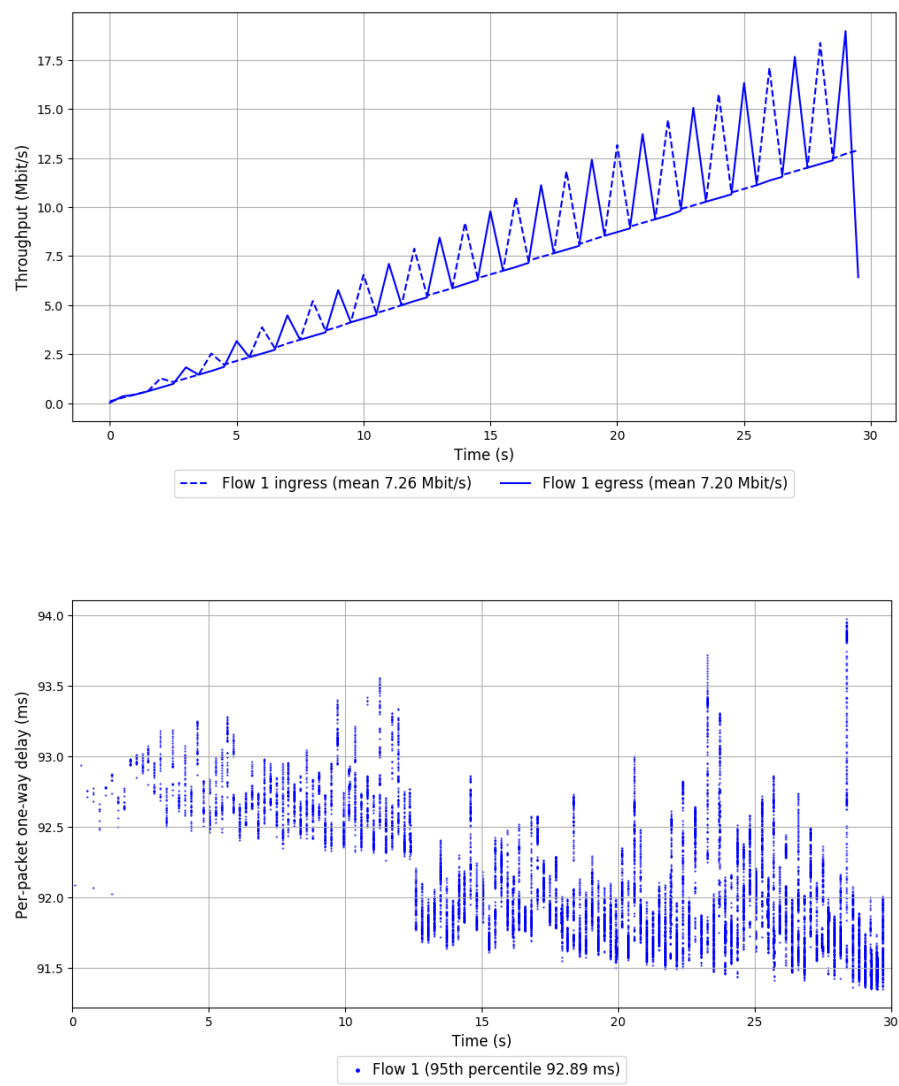
-- Flow 1:

Average throughput: 7.20 Mbit/s

95th percentile per-packet one-way delay: 92.895 ms

Loss rate: 1.50%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-24 05:49:46

End at: 2018-04-24 05:50:16

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 96.879 ms

Loss rate: 1.58%

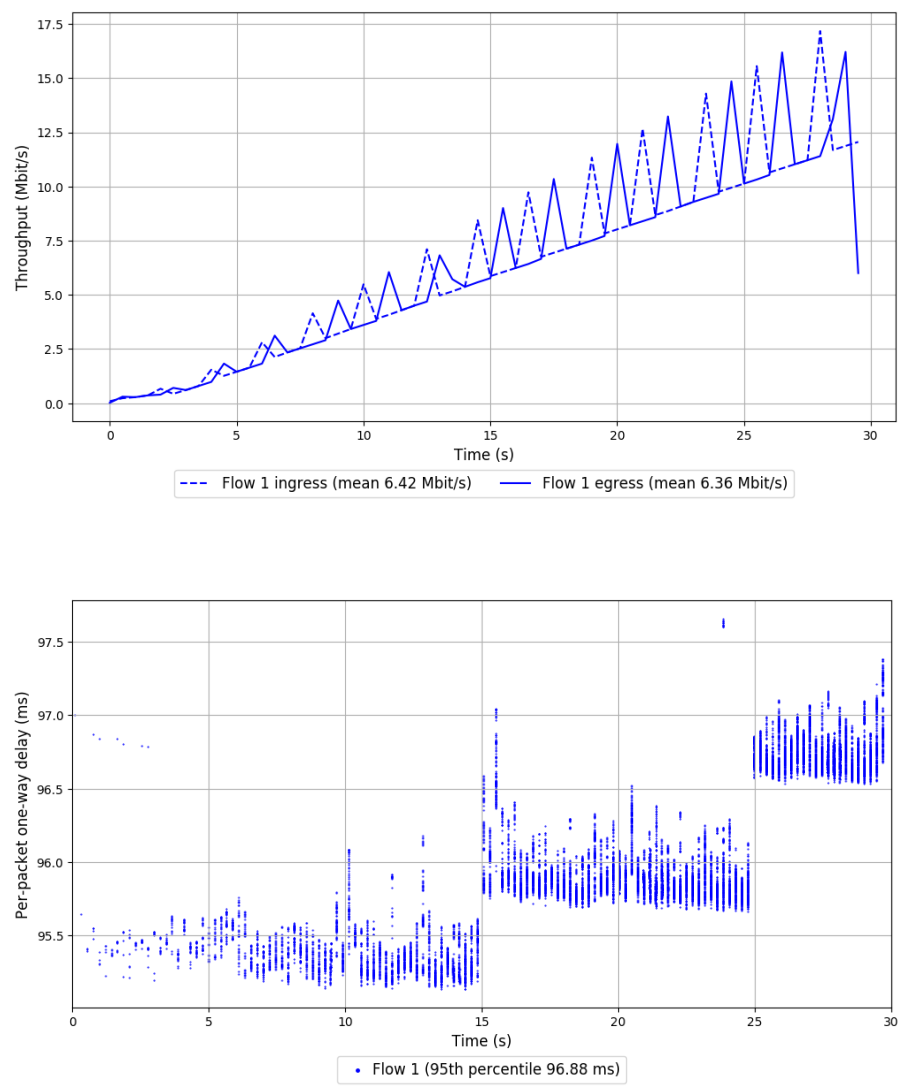
-- Flow 1:

Average throughput: 6.36 Mbit/s

95th percentile per-packet one-way delay: 96.879 ms

Loss rate: 1.58%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 06:03:21

End at: 2018-04-24 06:03:51

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 89.051 ms

Loss rate: 1.50%

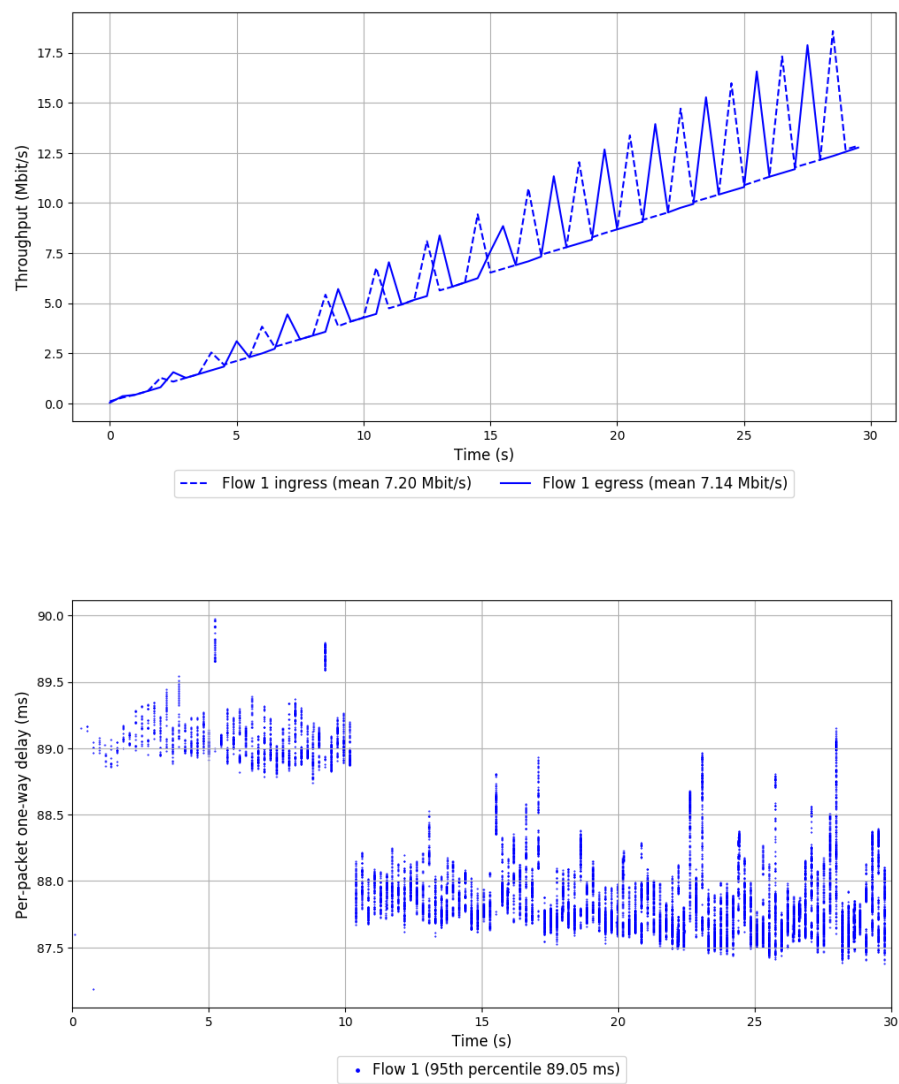
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 89.051 ms

Loss rate: 1.50%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

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

End at: 2018-04-24 06:17:47

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 95.806 ms

Loss rate: 1.52%

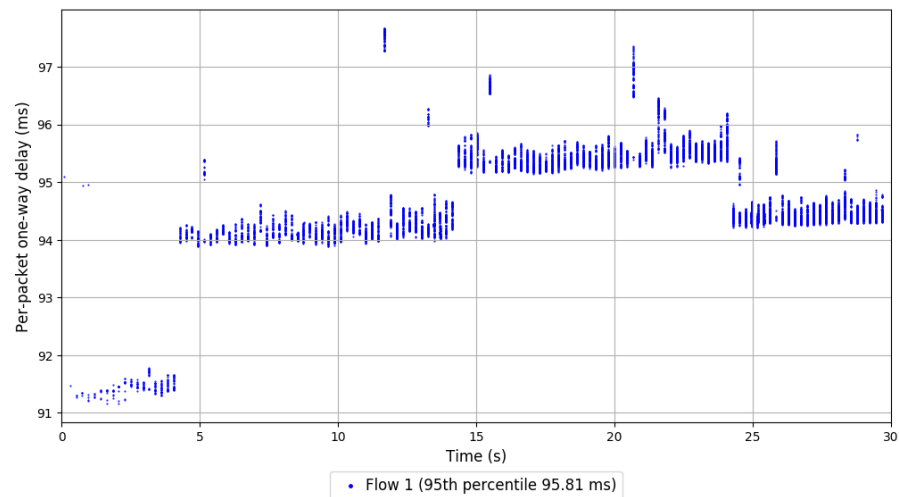
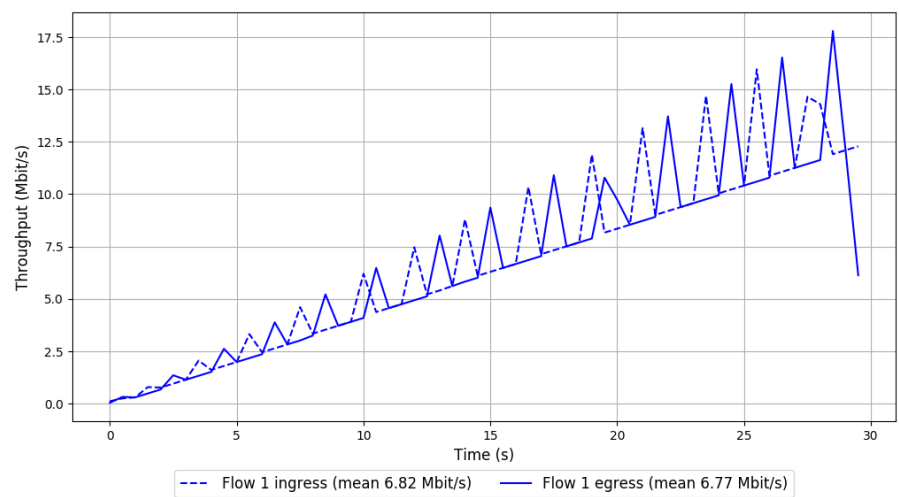
-- Flow 1:

Average throughput: 6.77 Mbit/s

95th percentile per-packet one-way delay: 95.806 ms

Loss rate: 1.52%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-24 06:31:13

End at: 2018-04-24 06:31:43

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 100.068 ms

Loss rate: 0.82%

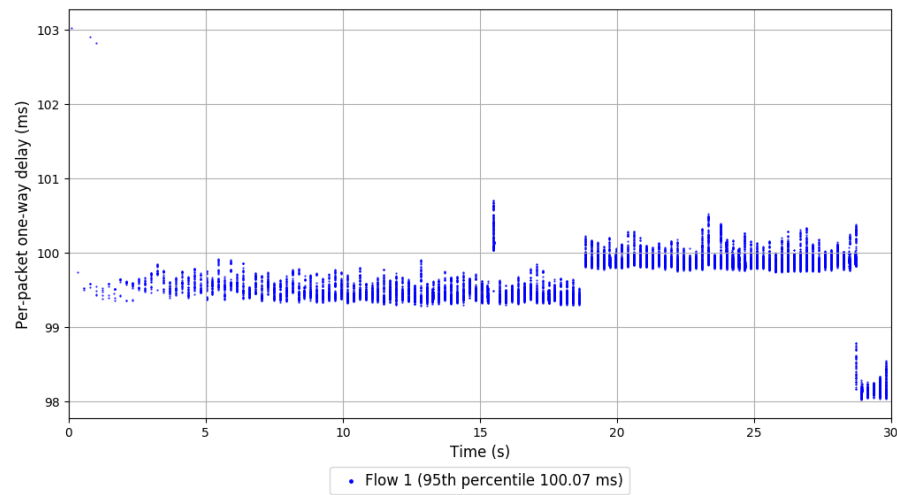
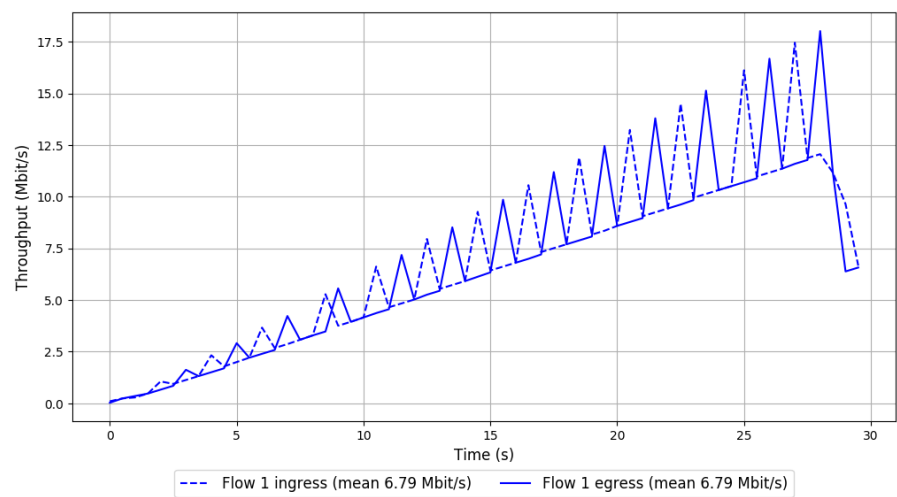
-- Flow 1:

Average throughput: 6.79 Mbit/s

95th percentile per-packet one-way delay: 100.068 ms

Loss rate: 0.82%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-24 06:45:09

End at: 2018-04-24 06:45:39

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 96.576 ms

Loss rate: 1.52%

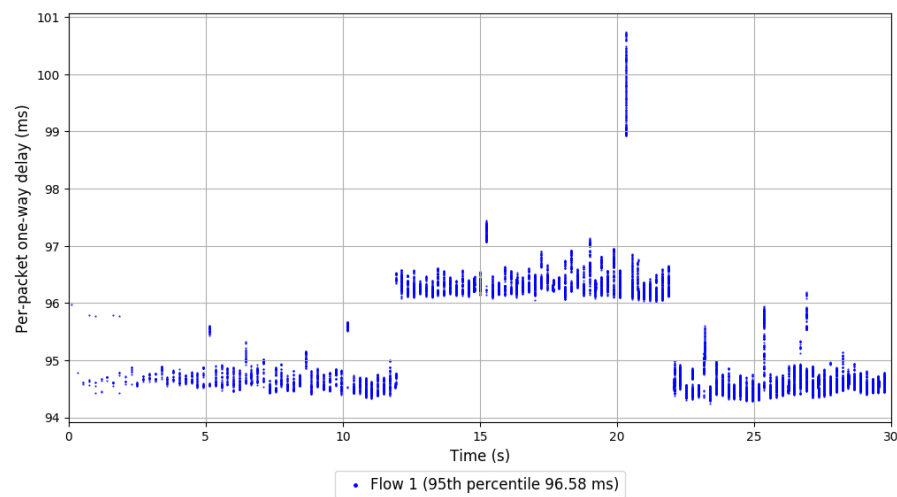
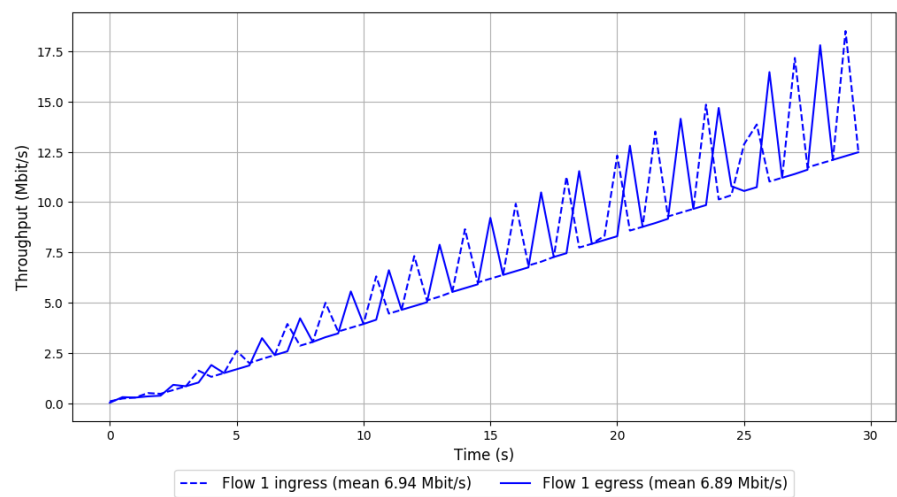
-- Flow 1:

Average throughput: 6.89 Mbit/s

95th percentile per-packet one-way delay: 96.576 ms

Loss rate: 1.52%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-24 06:58:29

End at: 2018-04-24 06:58:59

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 106.174 ms

Loss rate: 1.51%

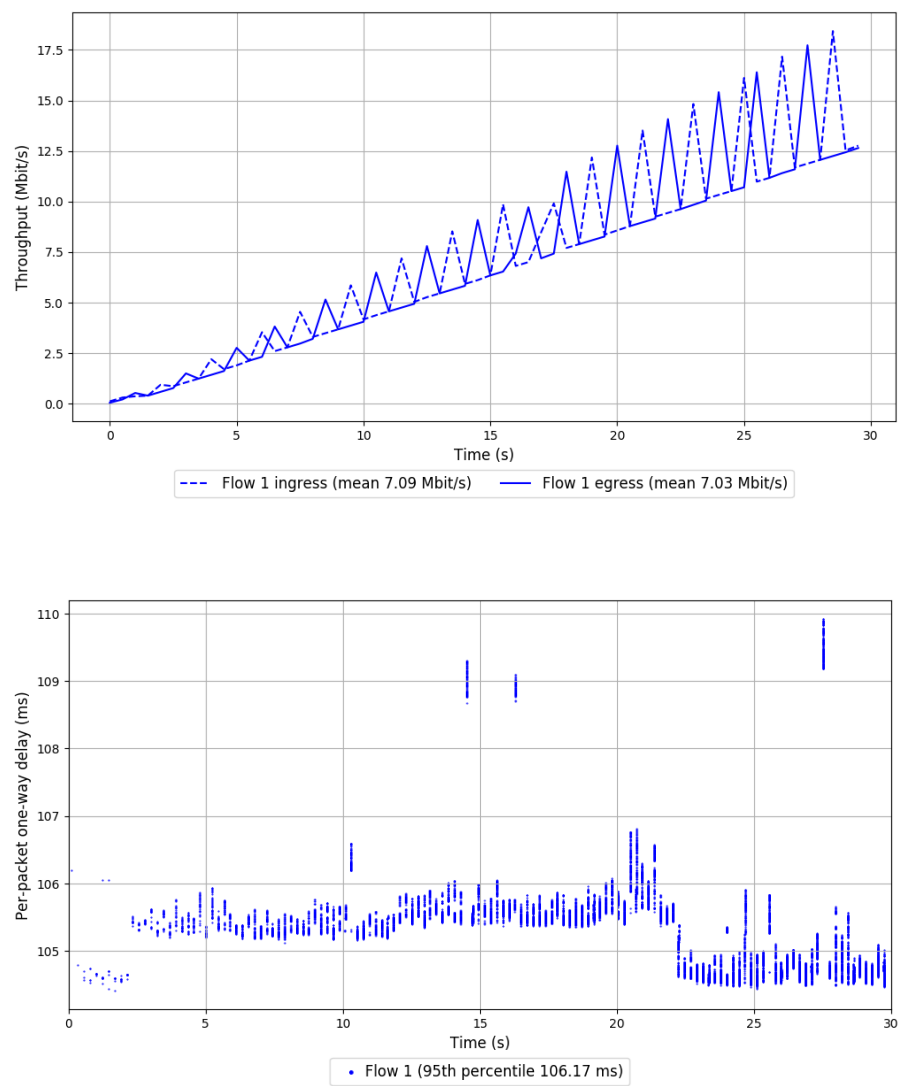
-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 106.174 ms

Loss rate: 1.51%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-24 07:12:24

End at: 2018-04-24 07:12:54

Below is generated by plot.py at 2018-04-24 09:51:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 106.332 ms

Loss rate: 1.75%

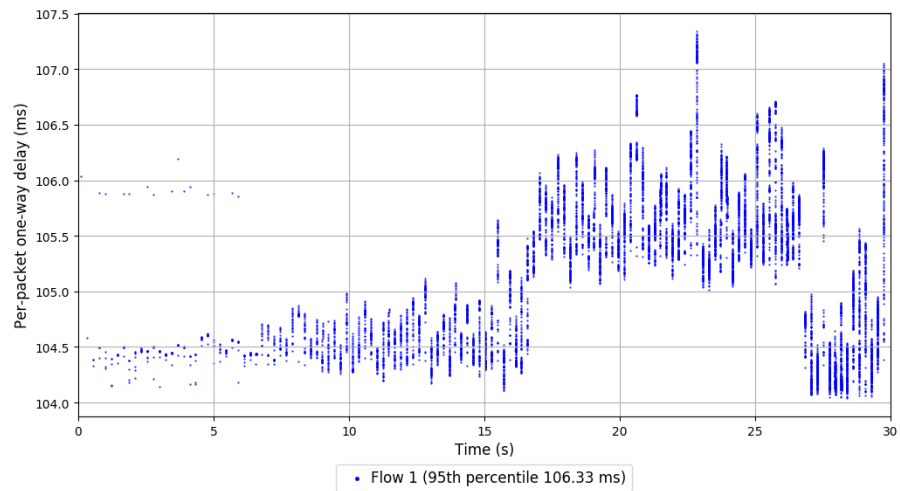
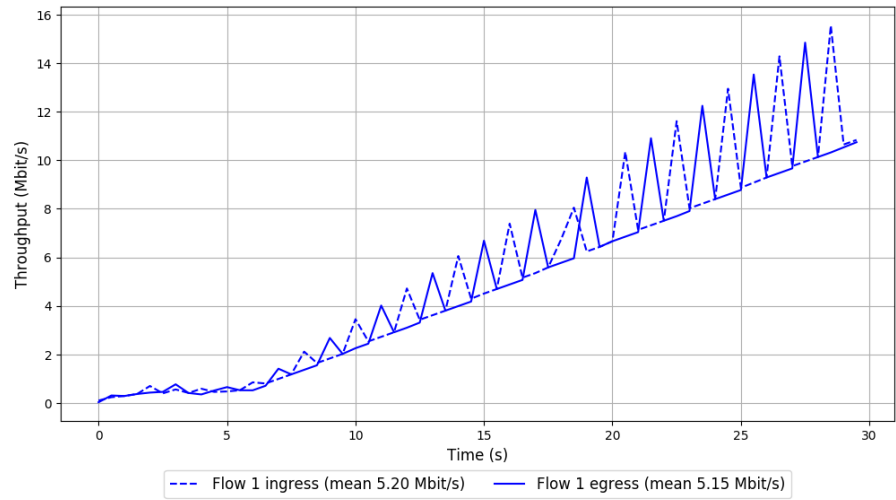
-- Flow 1:

Average throughput: 5.15 Mbit/s

95th percentile per-packet one-way delay: 106.332 ms

Loss rate: 1.75%

Run 10: Report of LEDBAT — Data Link

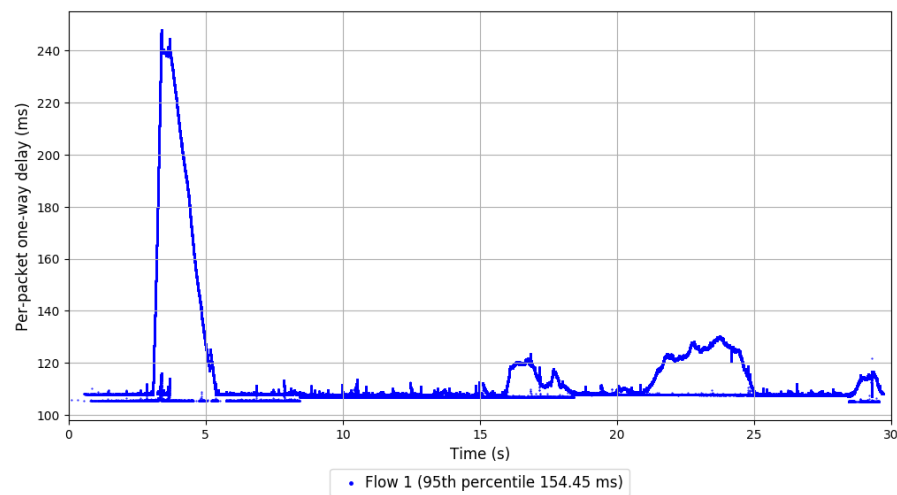
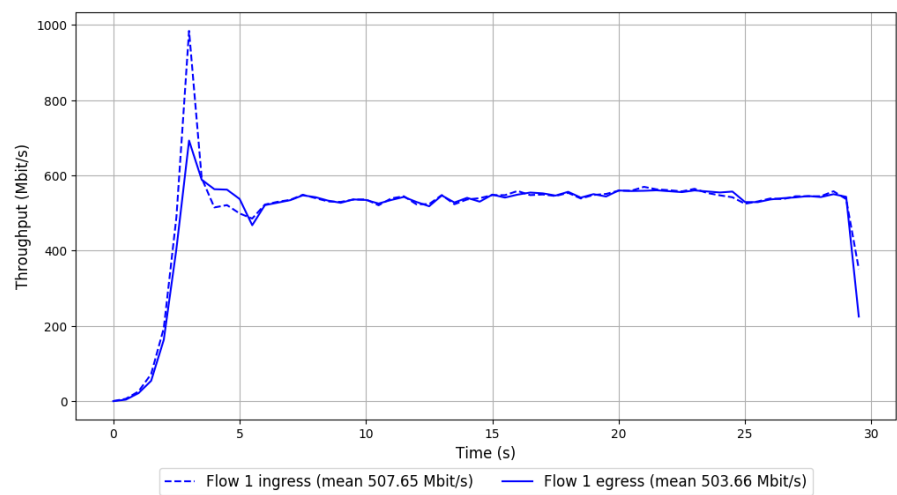


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 05:08:53
End at: 2018-04-24 05:09:23

# Below is generated by plot.py at 2018-04-24 09:58:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 503.66 Mbit/s
95th percentile per-packet one-way delay: 154.452 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 503.66 Mbit/s
95th percentile per-packet one-way delay: 154.452 ms
Loss rate: 1.53%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 05:22:42

End at: 2018-04-24 05:23:12

Below is generated by plot.py at 2018-04-24 09:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.09 Mbit/s

95th percentile per-packet one-way delay: 237.334 ms

Loss rate: 2.33%

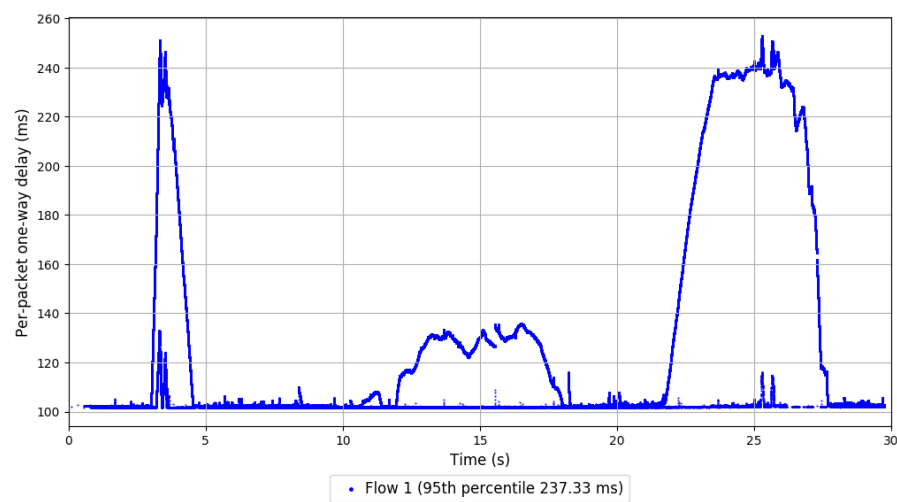
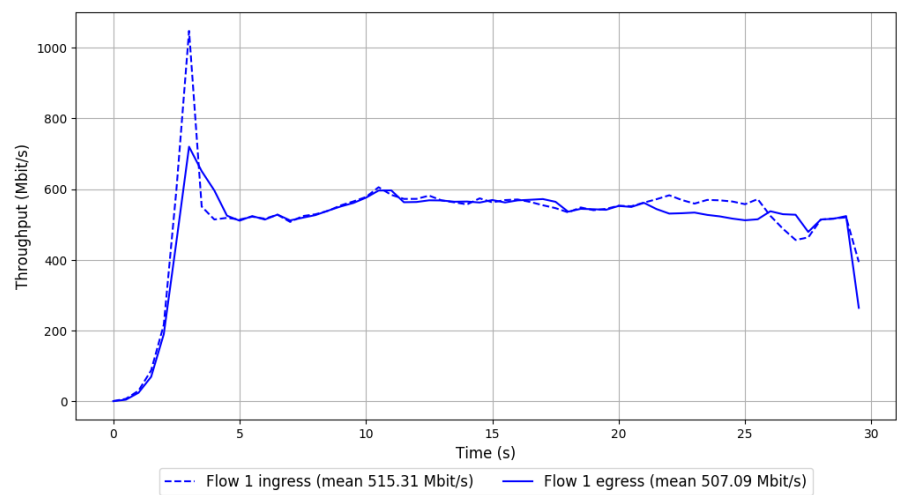
-- Flow 1:

Average throughput: 507.09 Mbit/s

95th percentile per-packet one-way delay: 237.334 ms

Loss rate: 2.33%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 05:36:40

End at: 2018-04-24 05:37:10

Below is generated by plot.py at 2018-04-24 09:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.36 Mbit/s

95th percentile per-packet one-way delay: 132.990 ms

Loss rate: 1.65%

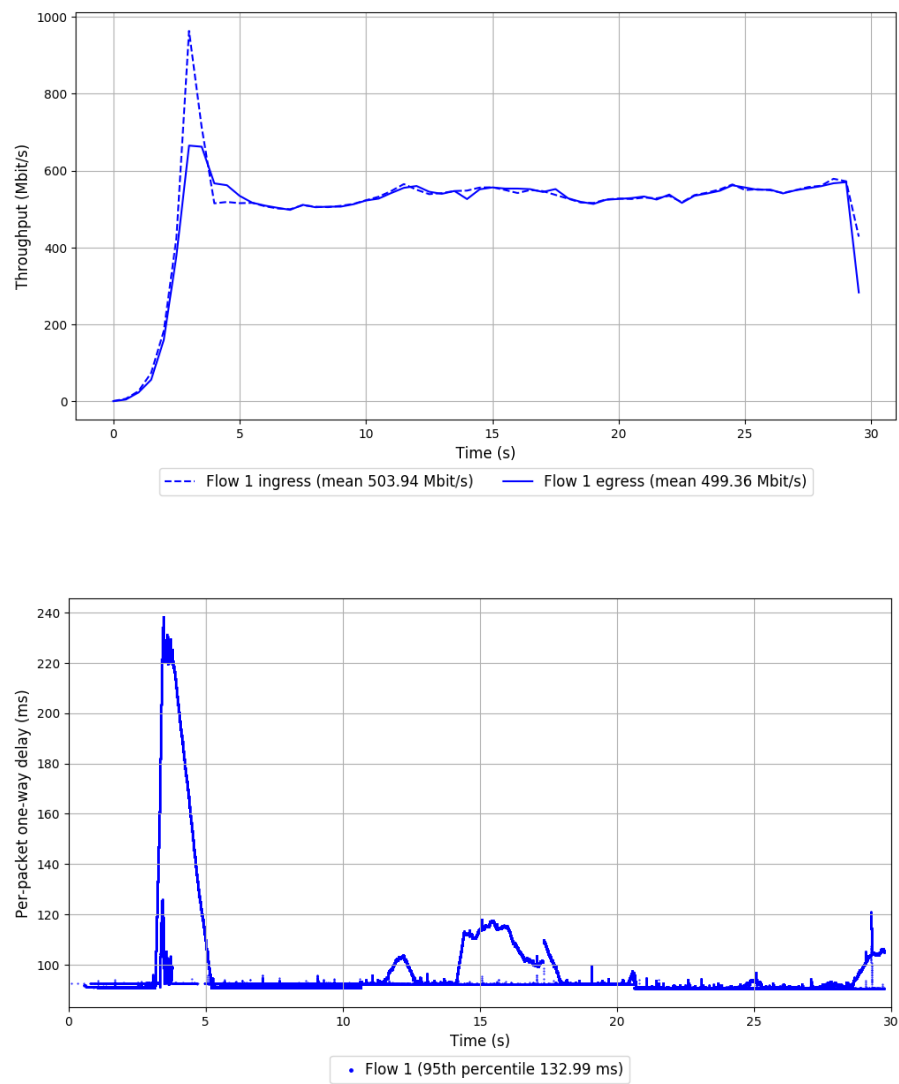
-- Flow 1:

Average throughput: 499.36 Mbit/s

95th percentile per-packet one-way delay: 132.990 ms

Loss rate: 1.65%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 05:50:27

End at: 2018-04-24 05:50:57

Below is generated by plot.py at 2018-04-24 09:58:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.82 Mbit/s

95th percentile per-packet one-way delay: 198.247 ms

Loss rate: 1.78%

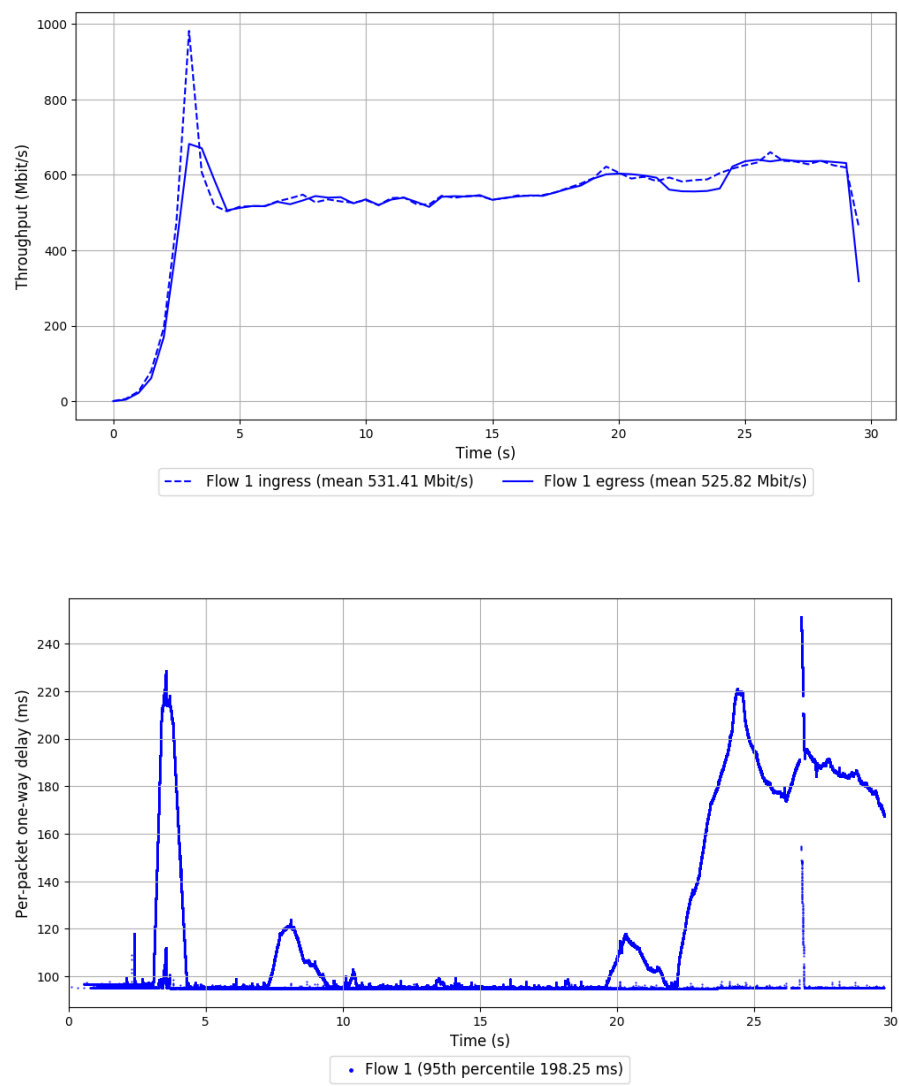
-- Flow 1:

Average throughput: 525.82 Mbit/s

95th percentile per-packet one-way delay: 198.247 ms

Loss rate: 1.78%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

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

End at: 2018-04-24 06:04:33

Below is generated by plot.py at 2018-04-24 09:58:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.55 Mbit/s

95th percentile per-packet one-way delay: 193.044 ms

Loss rate: 1.72%

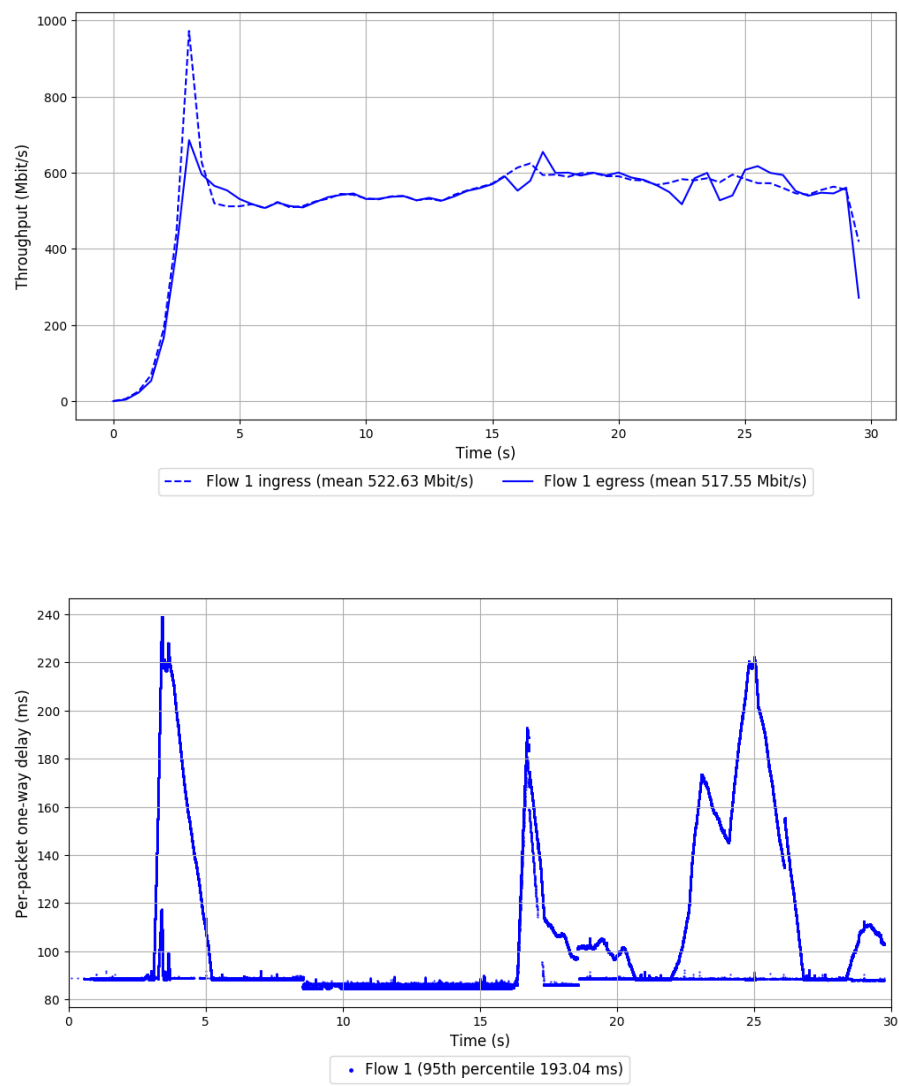
-- Flow 1:

Average throughput: 517.55 Mbit/s

95th percentile per-packet one-way delay: 193.044 ms

Loss rate: 1.72%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 06:17:58

End at: 2018-04-24 06:18:28

Below is generated by plot.py at 2018-04-24 09:58:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.53 Mbit/s

95th percentile per-packet one-way delay: 145.904 ms

Loss rate: 1.53%

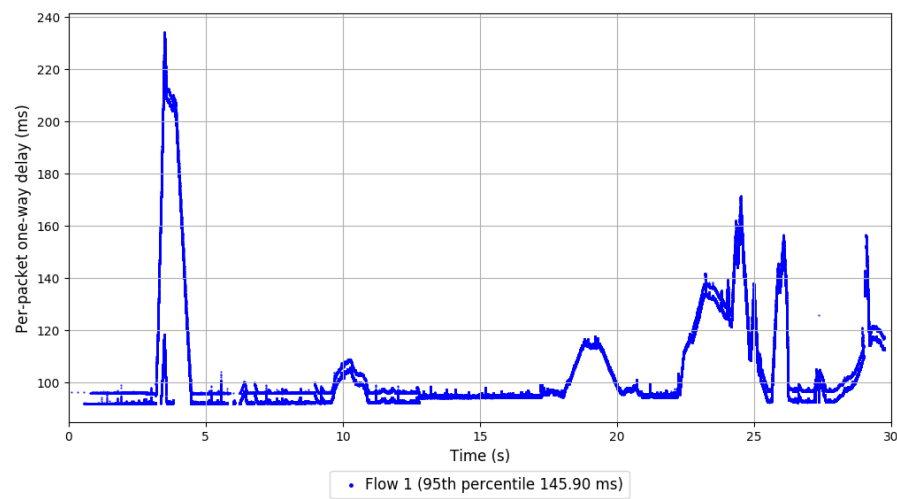
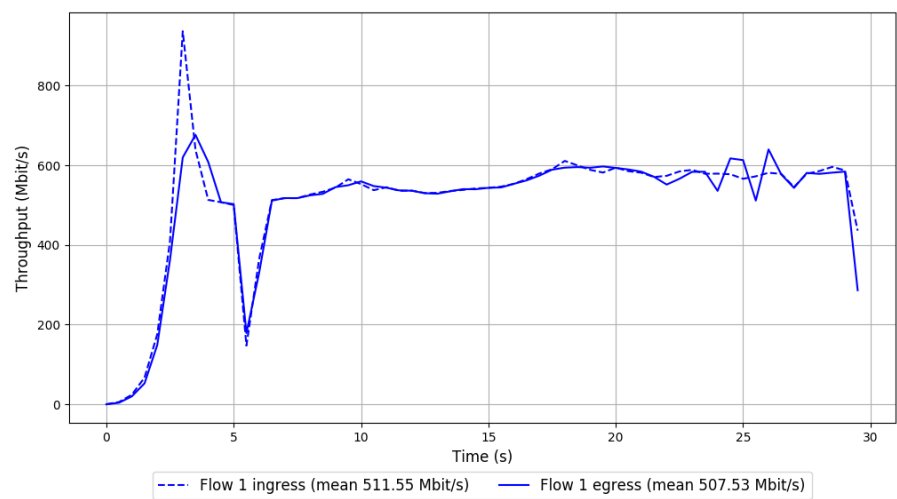
-- Flow 1:

Average throughput: 507.53 Mbit/s

95th percentile per-packet one-way delay: 145.904 ms

Loss rate: 1.53%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 06:31:54

End at: 2018-04-24 06:32:24

Below is generated by plot.py at 2018-04-24 09:58:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.82 Mbit/s

95th percentile per-packet one-way delay: 181.421 ms

Loss rate: 1.59%

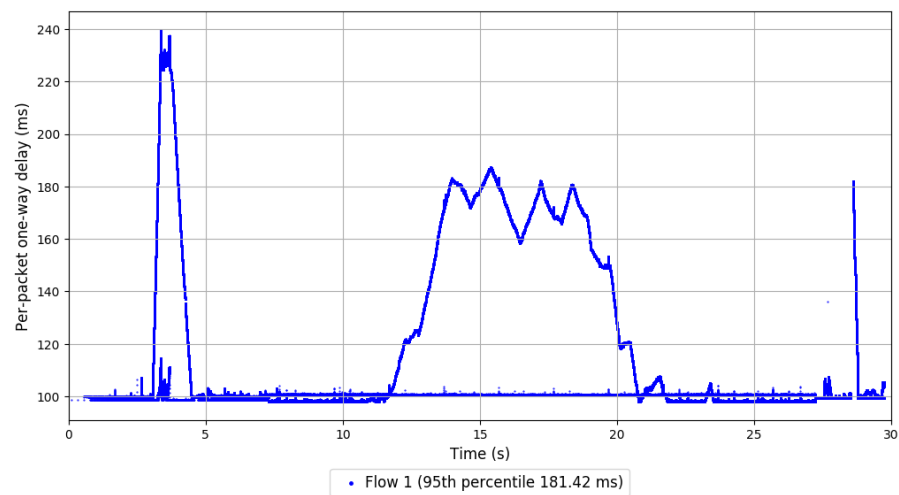
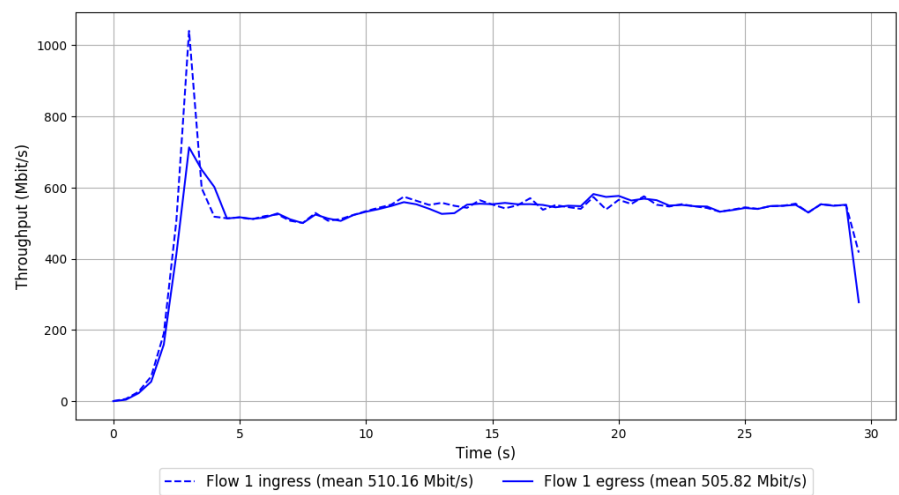
-- Flow 1:

Average throughput: 505.82 Mbit/s

95th percentile per-packet one-way delay: 181.421 ms

Loss rate: 1.59%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 06:45:51

End at: 2018-04-24 06:46:21

Below is generated by plot.py at 2018-04-24 09:58:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.63 Mbit/s

95th percentile per-packet one-way delay: 116.626 ms

Loss rate: 1.52%

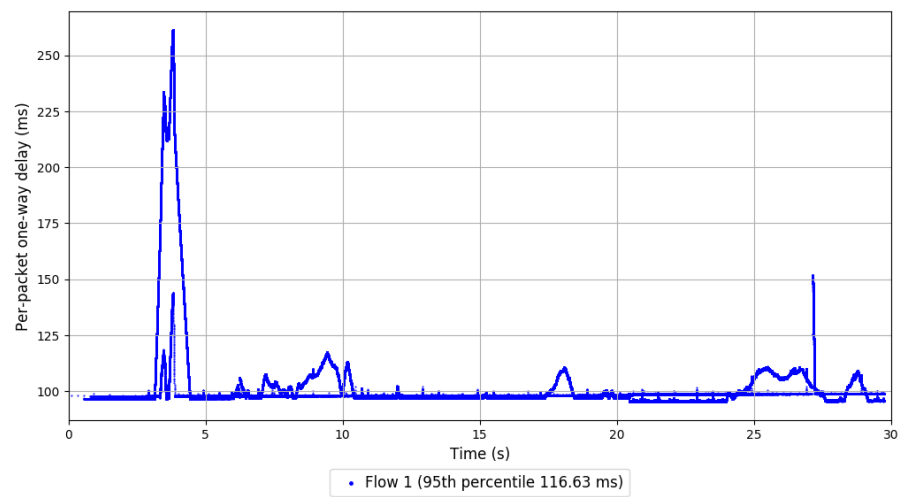
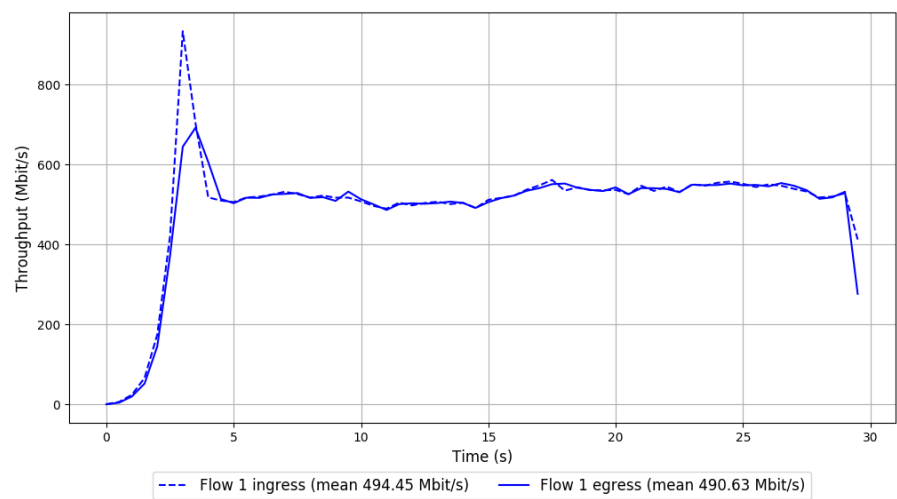
-- Flow 1:

Average throughput: 490.63 Mbit/s

95th percentile per-packet one-way delay: 116.626 ms

Loss rate: 1.52%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 06:59:11

End at: 2018-04-24 06:59:41

Below is generated by plot.py at 2018-04-24 10:06:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.10 Mbit/s

95th percentile per-packet one-way delay: 175.113 ms

Loss rate: 1.57%

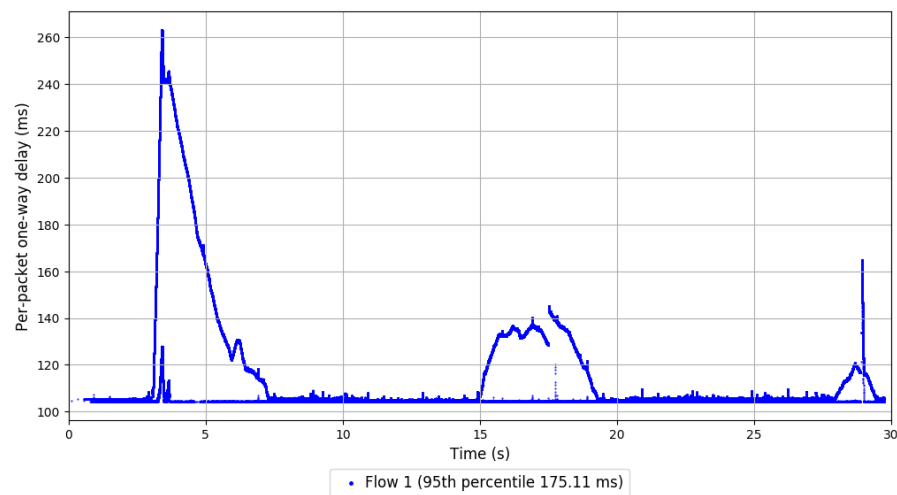
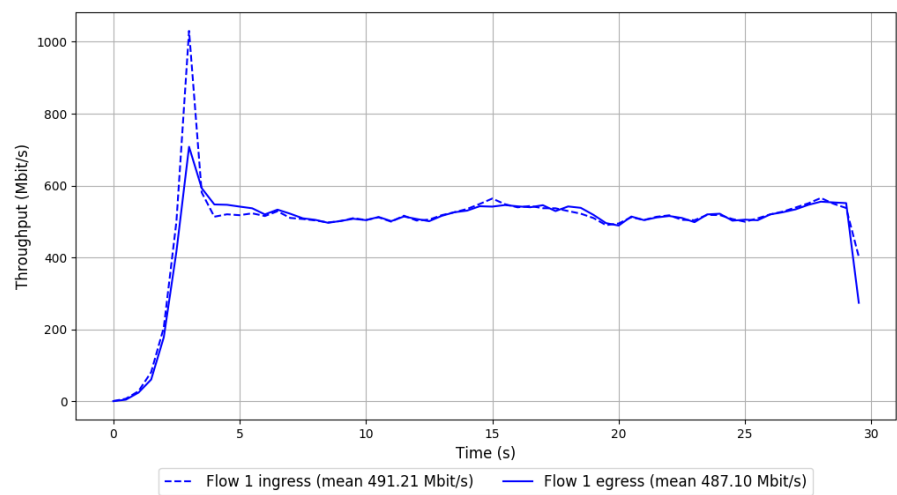
-- Flow 1:

Average throughput: 487.10 Mbit/s

95th percentile per-packet one-way delay: 175.113 ms

Loss rate: 1.57%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 07:13:06

End at: 2018-04-24 07:13:36

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.71 Mbit/s

95th percentile per-packet one-way delay: 178.834 ms

Loss rate: 1.92%

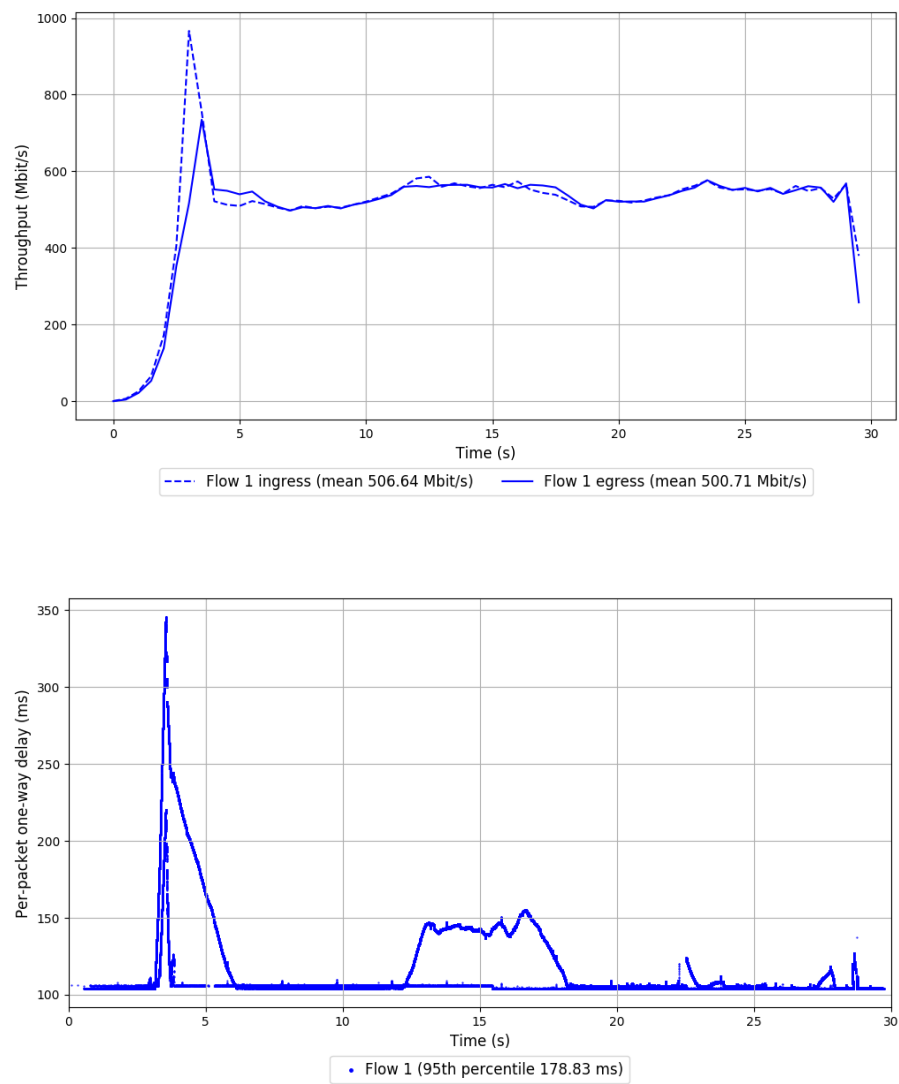
-- Flow 1:

Average throughput: 500.71 Mbit/s

95th percentile per-packet one-way delay: 178.834 ms

Loss rate: 1.92%

Run 10: Report of PCC-Allegro — Data Link

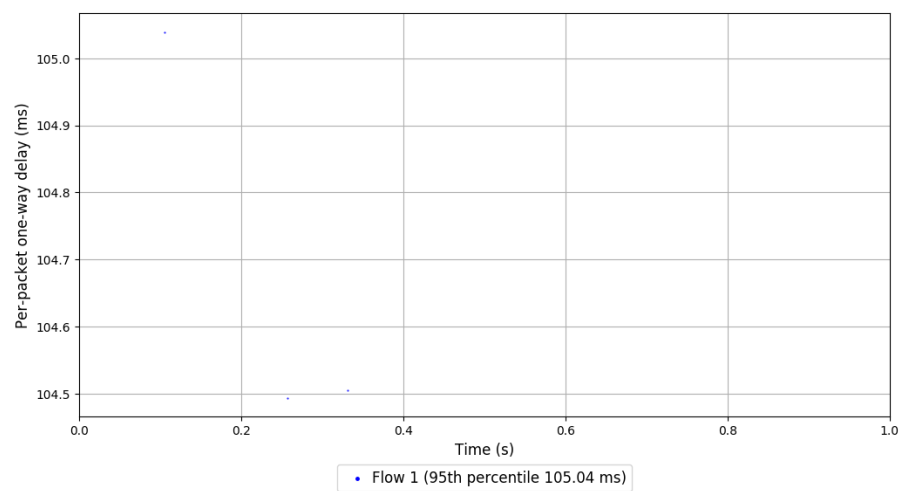
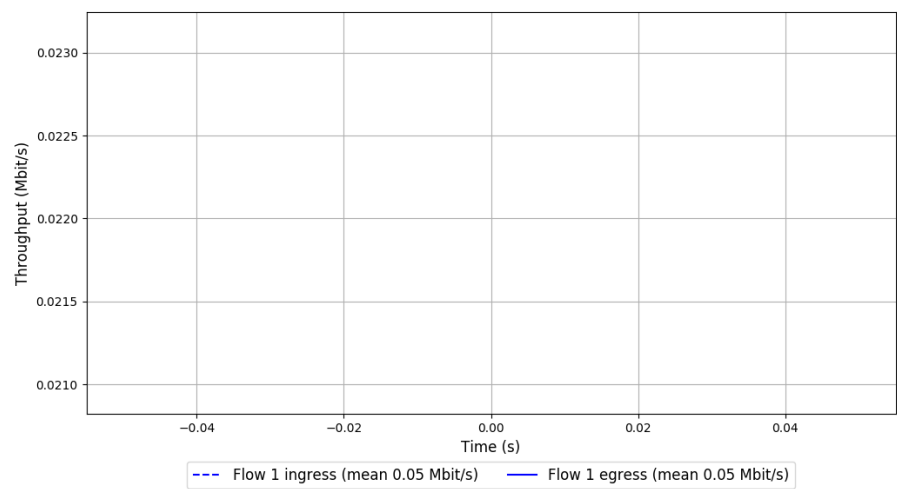


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 05:12:15

End at: 2018-04-24 05:12:45

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 05:26:03

End at: 2018-04-24 05:26:33

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.73 Mbit/s

95th percentile per-packet one-way delay: 102.410 ms

Loss rate: 1.06%

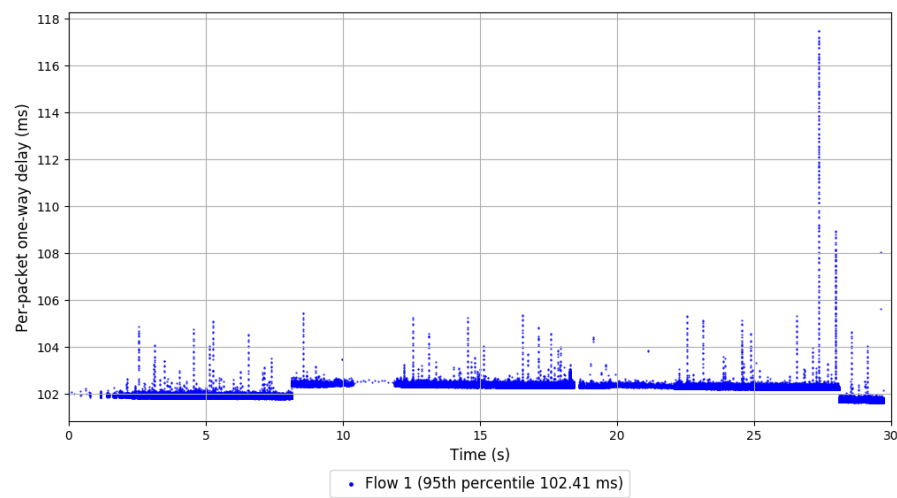
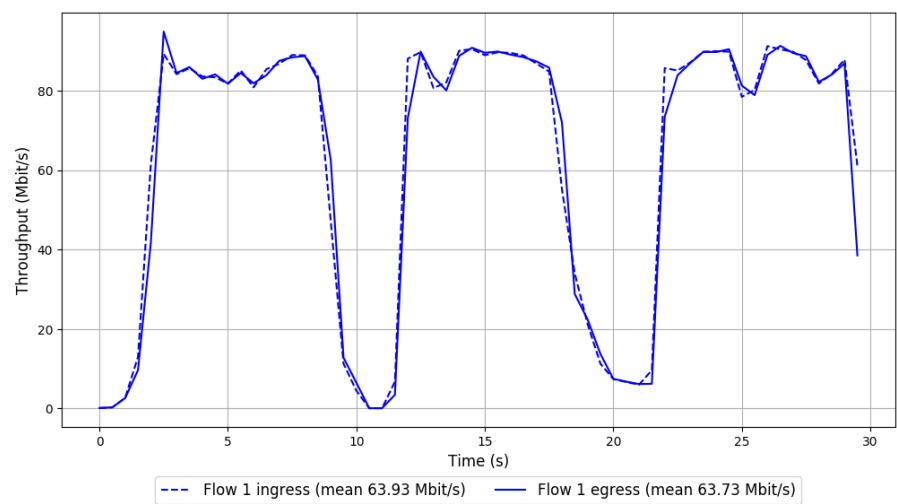
-- Flow 1:

Average throughput: 63.73 Mbit/s

95th percentile per-packet one-way delay: 102.410 ms

Loss rate: 1.06%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 05:40:06

End at: 2018-04-24 05:40:36

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 95.515 ms

Loss rate: 0.82%

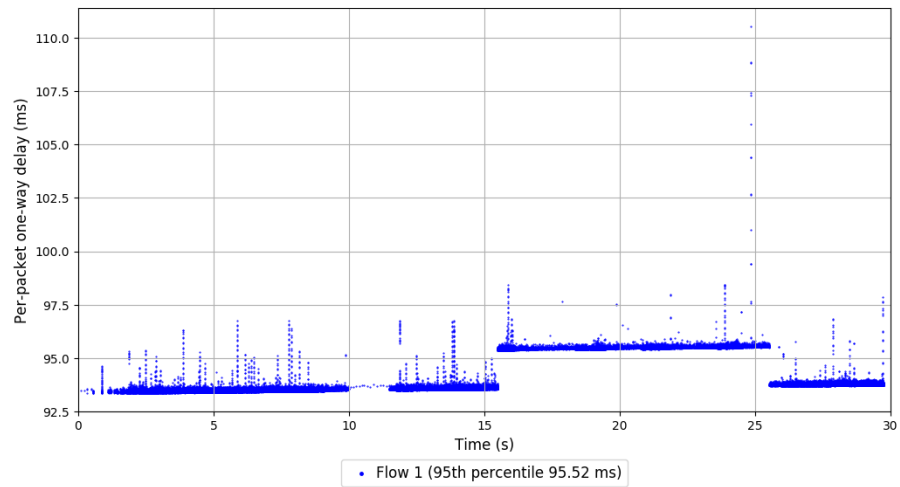
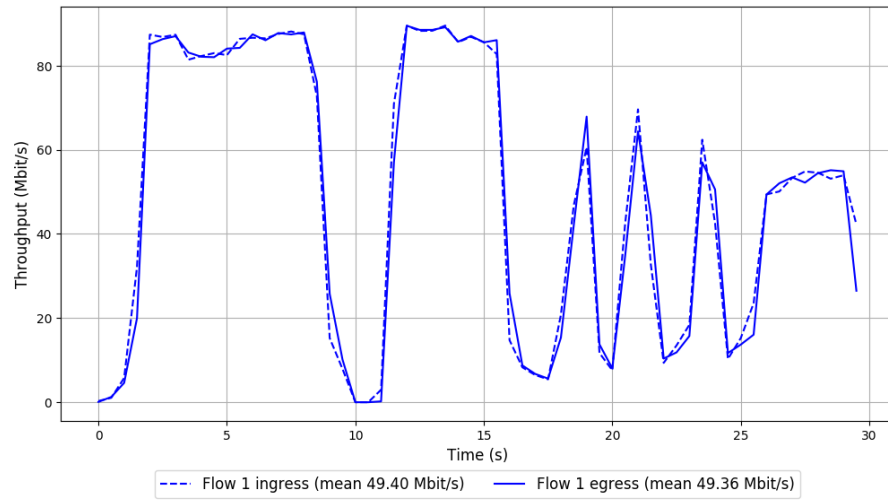
-- Flow 1:

Average throughput: 49.36 Mbit/s

95th percentile per-packet one-way delay: 95.515 ms

Loss rate: 0.82%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 05:53:47

End at: 2018-04-24 05:54:17

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.99 Mbit/s

95th percentile per-packet one-way delay: 95.539 ms

Loss rate: 0.99%

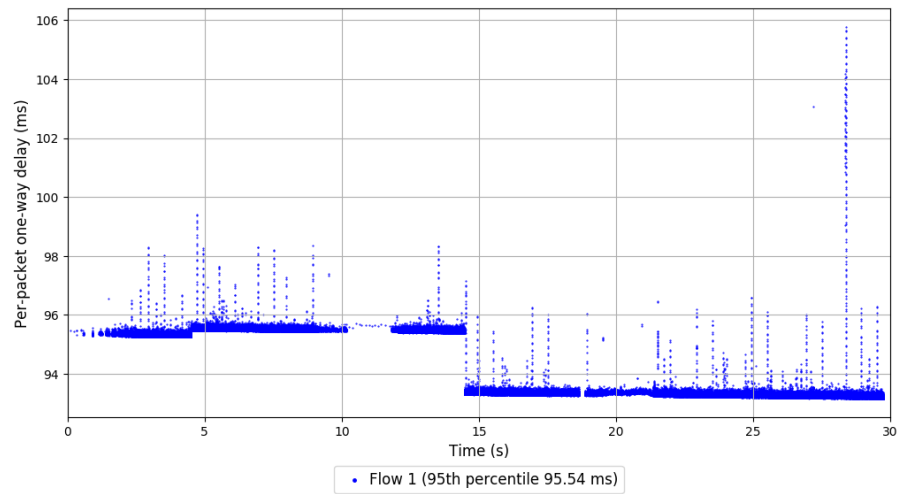
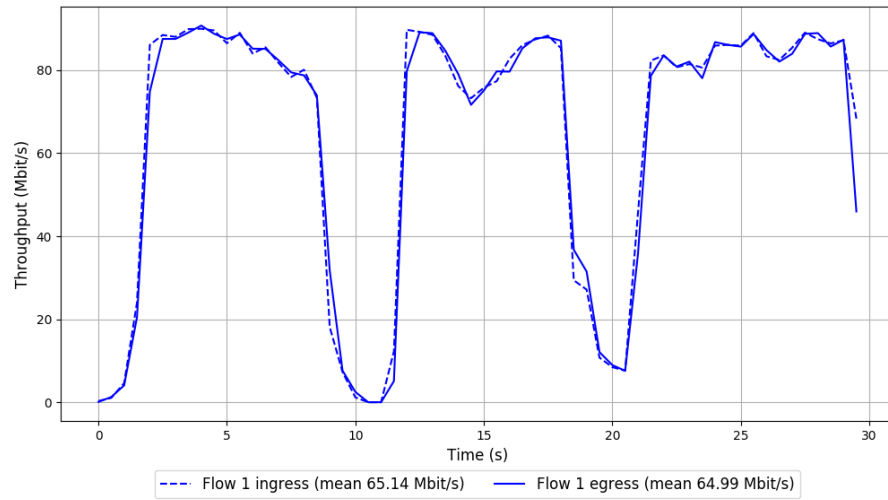
-- Flow 1:

Average throughput: 64.99 Mbit/s

95th percentile per-packet one-way delay: 95.539 ms

Loss rate: 0.99%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 06:07:27

End at: 2018-04-24 06:07:57

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.58 Mbit/s

95th percentile per-packet one-way delay: 87.529 ms

Loss rate: 0.87%

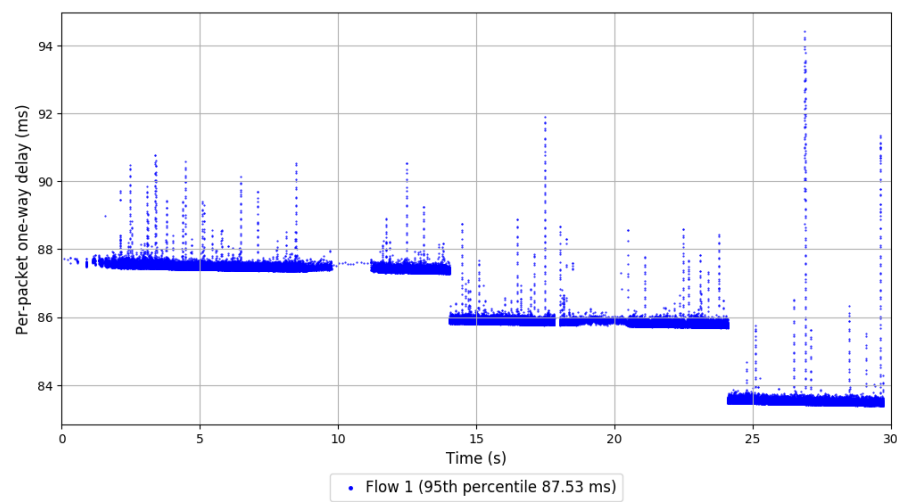
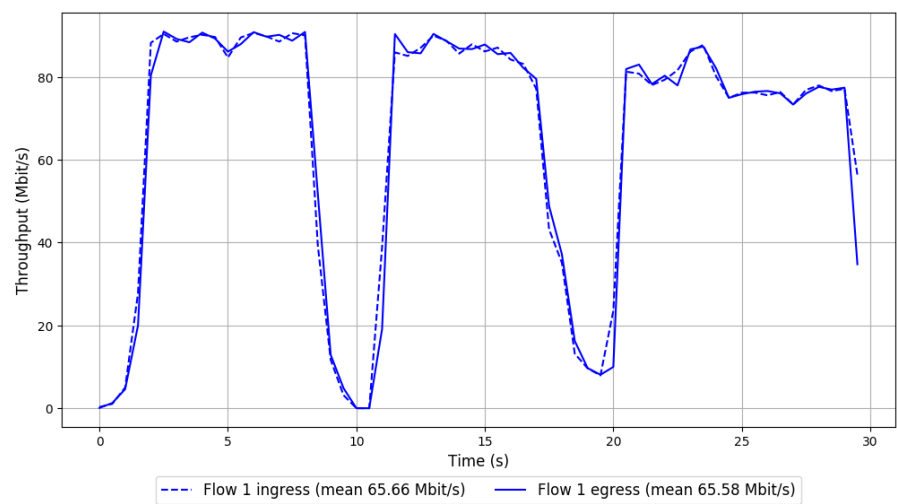
-- Flow 1:

Average throughput: 65.58 Mbit/s

95th percentile per-packet one-way delay: 87.529 ms

Loss rate: 0.87%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 06:21:30

End at: 2018-04-24 06:22:00

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.51 Mbit/s

95th percentile per-packet one-way delay: 99.043 ms

Loss rate: 1.03%

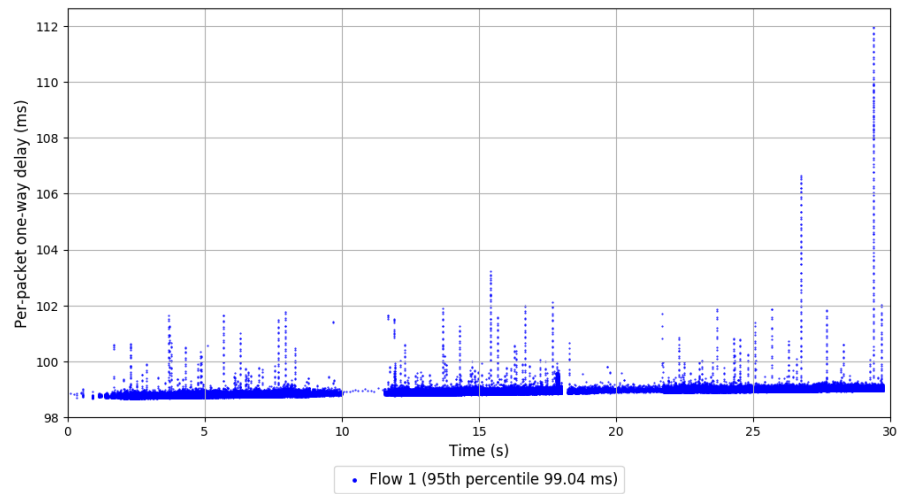
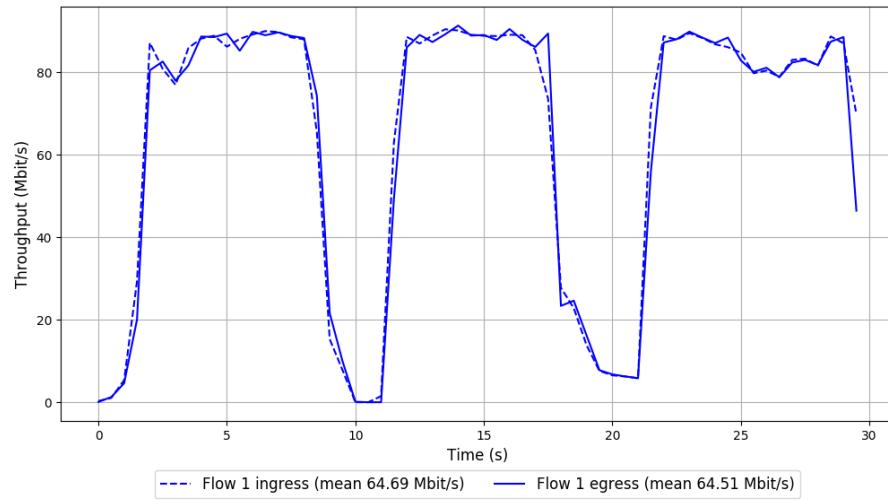
-- Flow 1:

Average throughput: 64.51 Mbit/s

95th percentile per-packet one-way delay: 99.043 ms

Loss rate: 1.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 06:35:17

End at: 2018-04-24 06:35:47

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.82 Mbit/s

95th percentile per-packet one-way delay: 99.584 ms

Loss rate: 1.04%

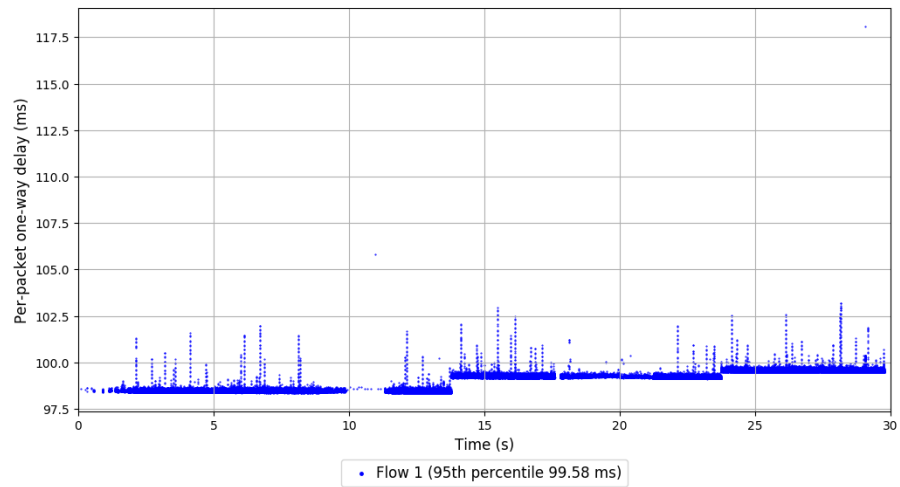
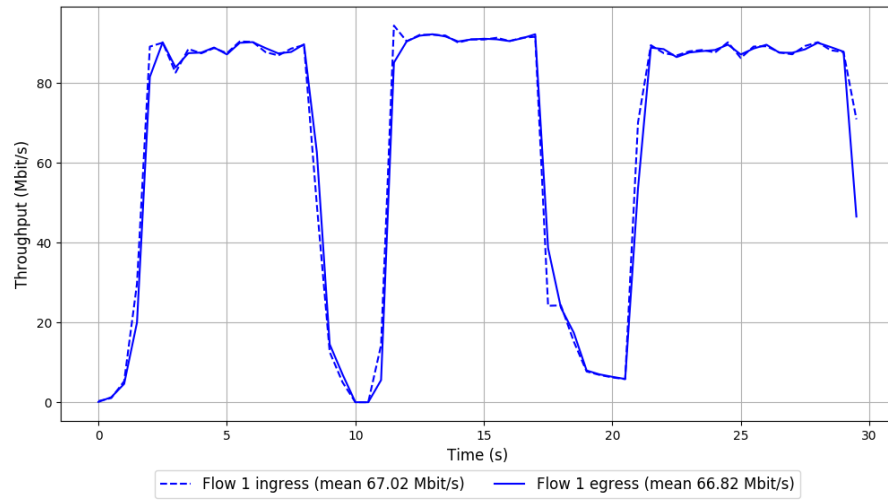
-- Flow 1:

Average throughput: 66.82 Mbit/s

95th percentile per-packet one-way delay: 99.584 ms

Loss rate: 1.04%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 06:49:09

End at: 2018-04-24 06:49:39

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.36 Mbit/s

95th percentile per-packet one-way delay: 102.463 ms

Loss rate: 1.00%

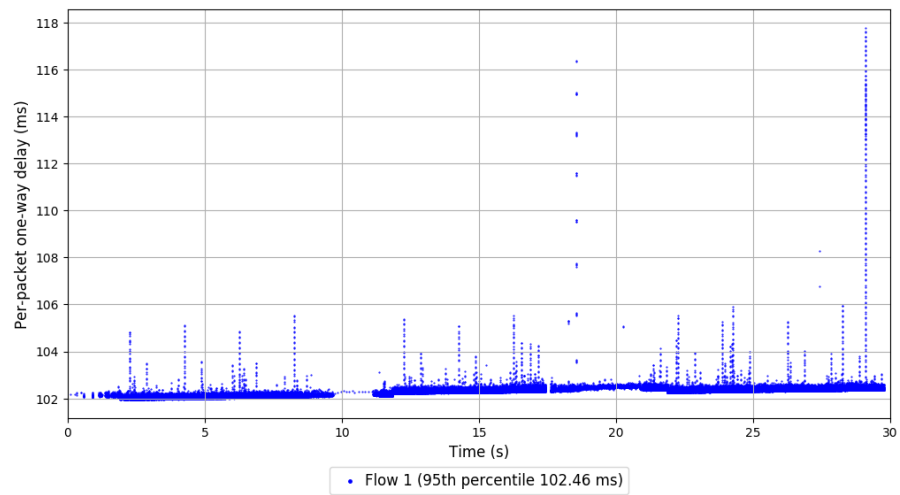
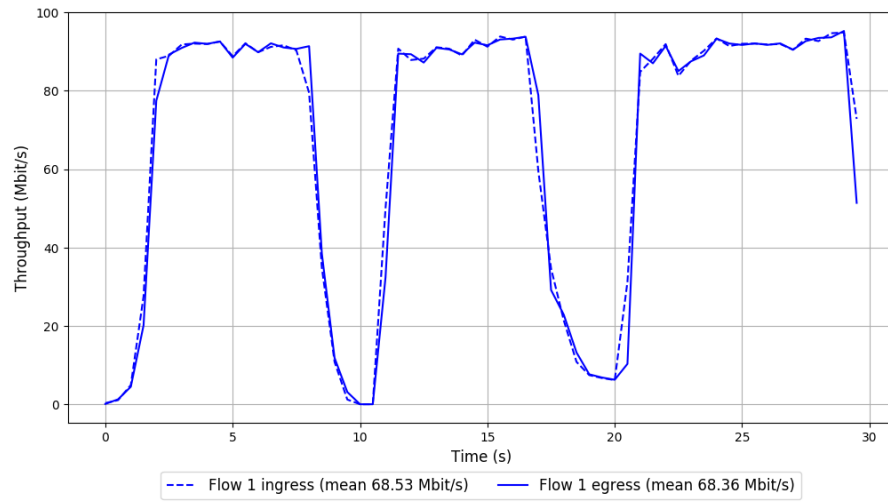
-- Flow 1:

Average throughput: 68.36 Mbit/s

95th percentile per-packet one-way delay: 102.463 ms

Loss rate: 1.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 07:02:34

End at: 2018-04-24 07:03:04

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 106.977 ms

Loss rate: 0.96%

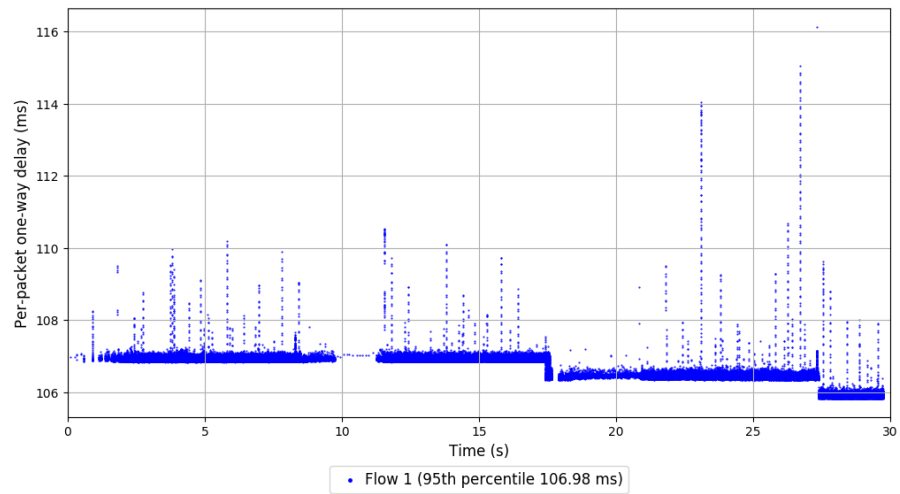
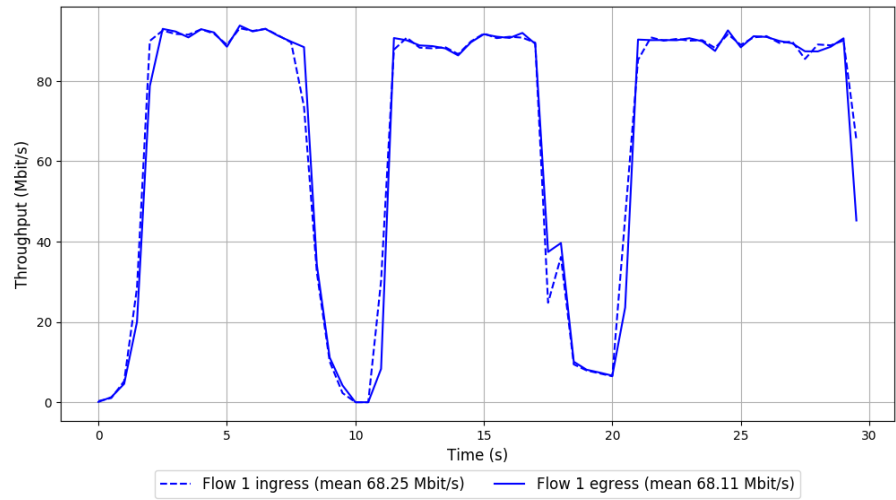
-- Flow 1:

Average throughput: 68.11 Mbit/s

95th percentile per-packet one-way delay: 106.977 ms

Loss rate: 0.96%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 07:16:35

End at: 2018-04-24 07:17:05

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.81 Mbit/s

95th percentile per-packet one-way delay: 105.212 ms

Loss rate: 0.98%

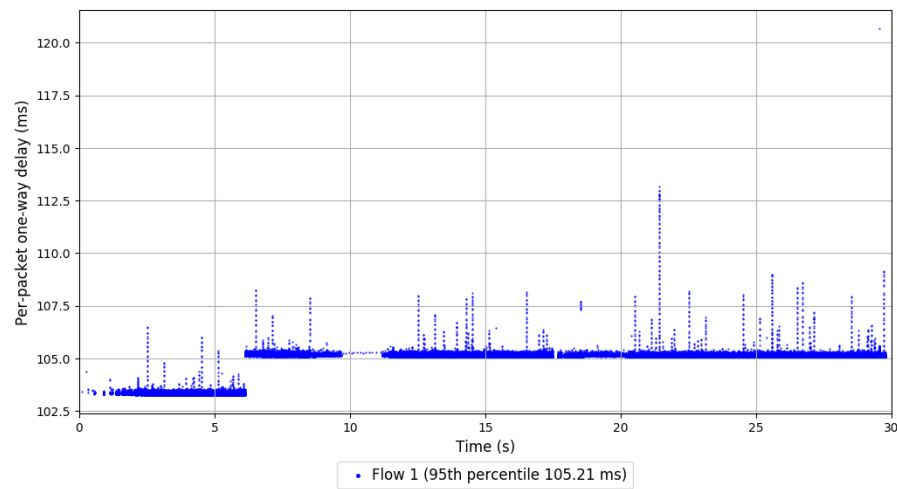
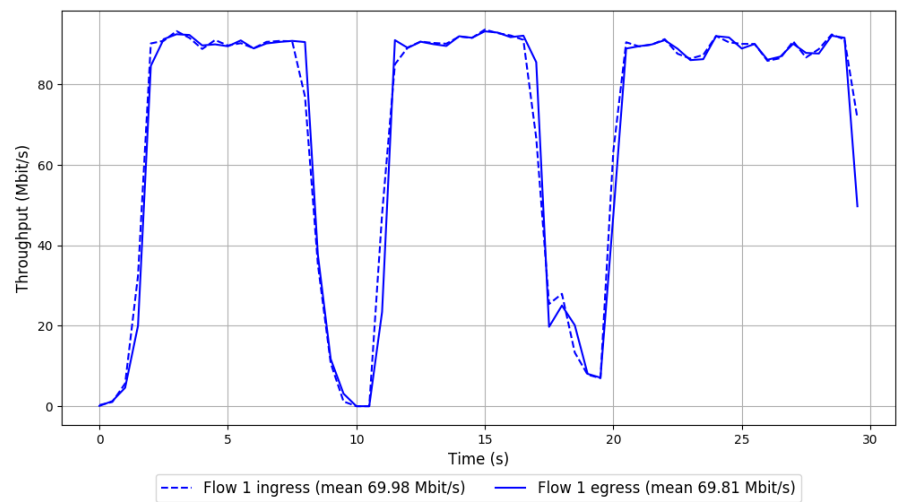
-- Flow 1:

Average throughput: 69.81 Mbit/s

95th percentile per-packet one-way delay: 105.212 ms

Loss rate: 0.98%

Run 10: Report of QUIC Cubic — Data Link

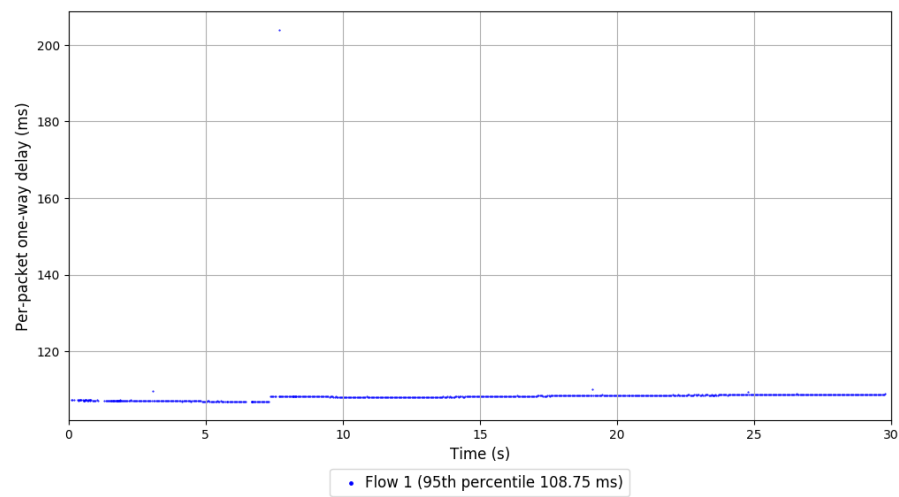
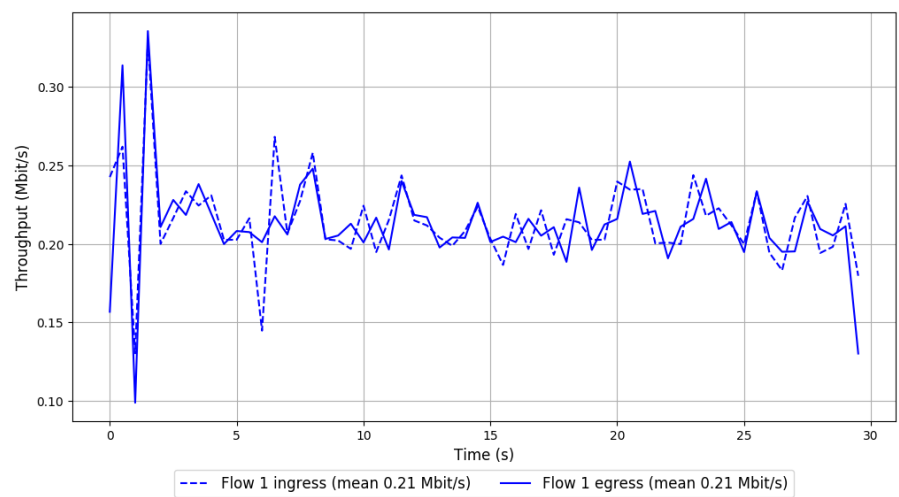


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 05:05:04
End at: 2018-04-24 05:05:34

# Below is generated by plot.py at 2018-04-24 10:06:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 108.746 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 108.746 ms
Loss rate: 0.76%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-24 05:18:47

End at: 2018-04-24 05:19:17

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.503 ms

Loss rate: 0.76%

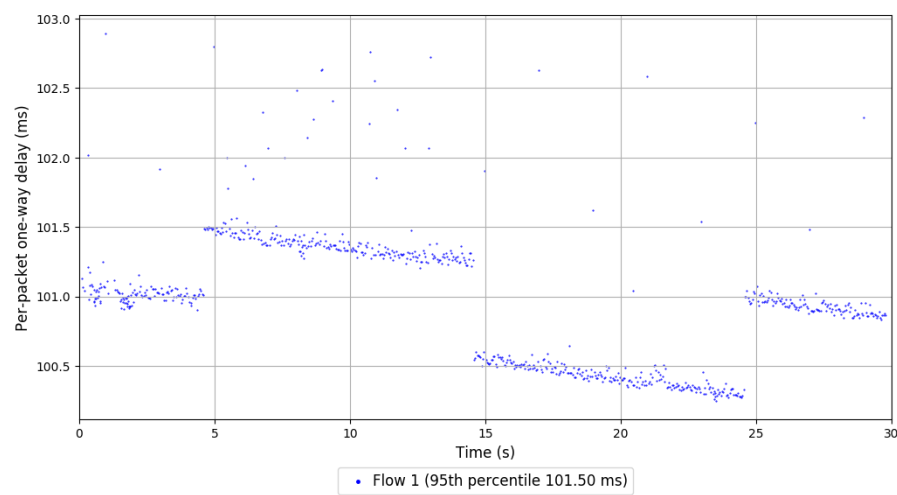
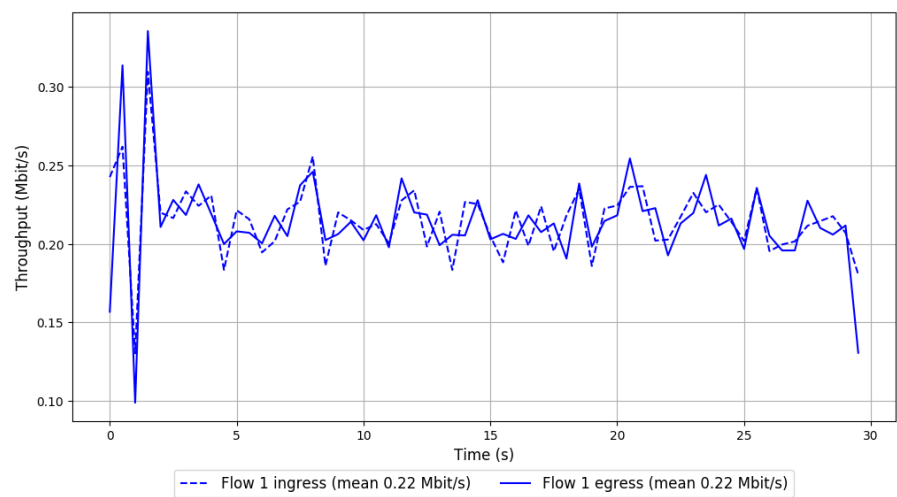
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.503 ms

Loss rate: 0.76%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-24 05:32:45

End at: 2018-04-24 05:33:15

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 96.994 ms

Loss rate: 0.76%

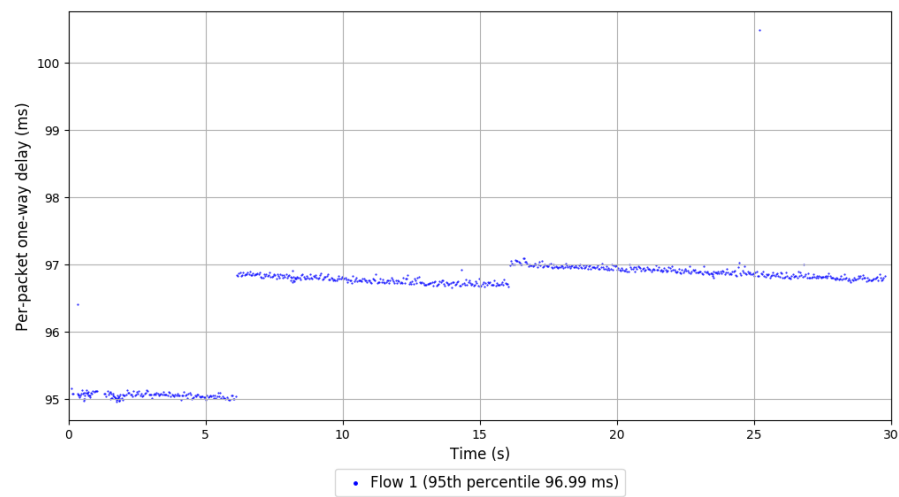
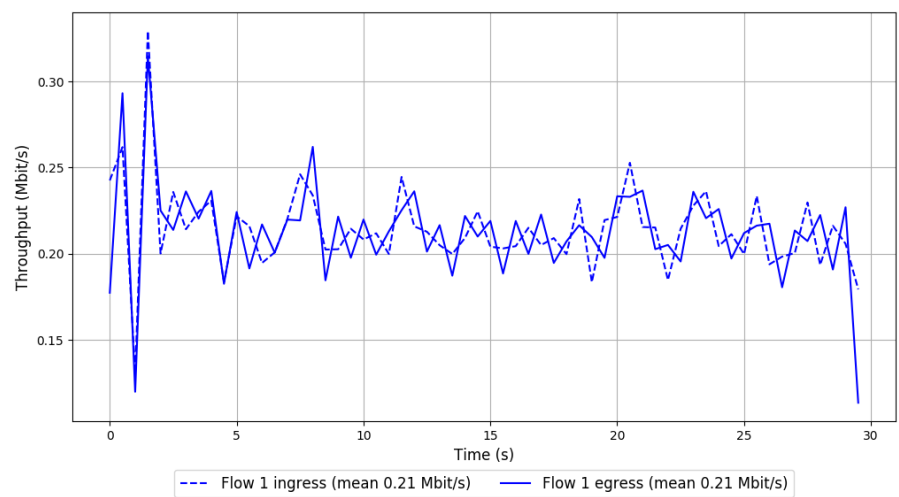
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 96.994 ms

Loss rate: 0.76%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-24 05:46:33

End at: 2018-04-24 05:47:03

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 96.282 ms

Loss rate: 0.77%

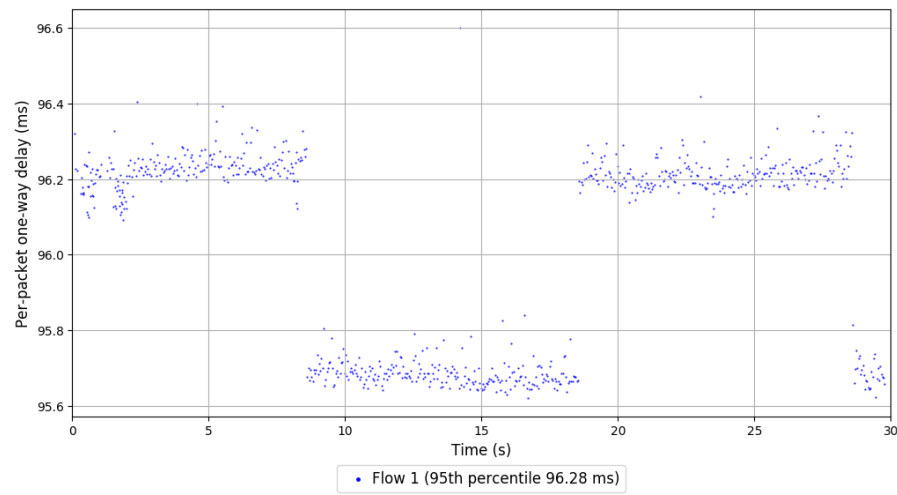
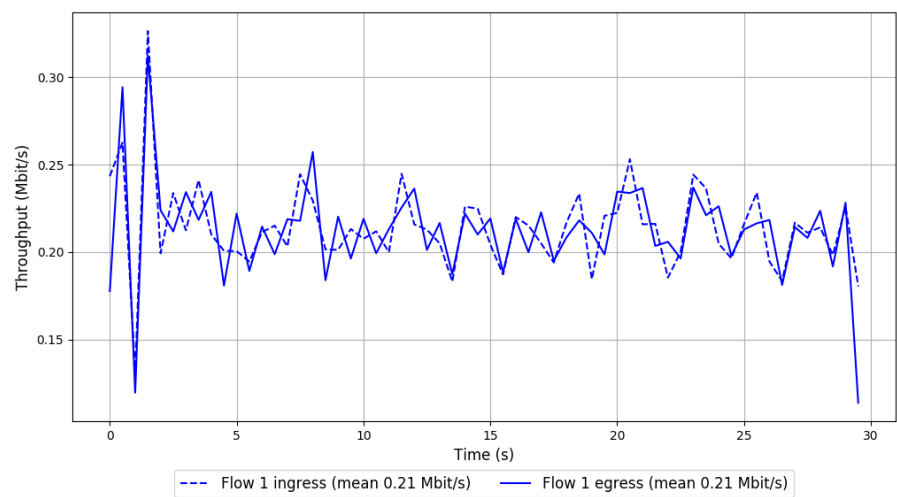
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 96.282 ms

Loss rate: 0.77%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-24 06:00:10

End at: 2018-04-24 06:00:40

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.200 ms

Loss rate: 0.77%

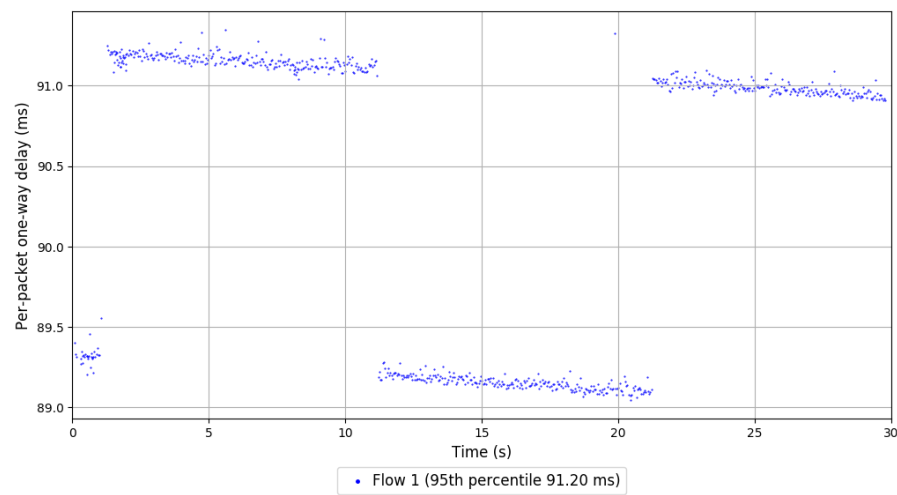
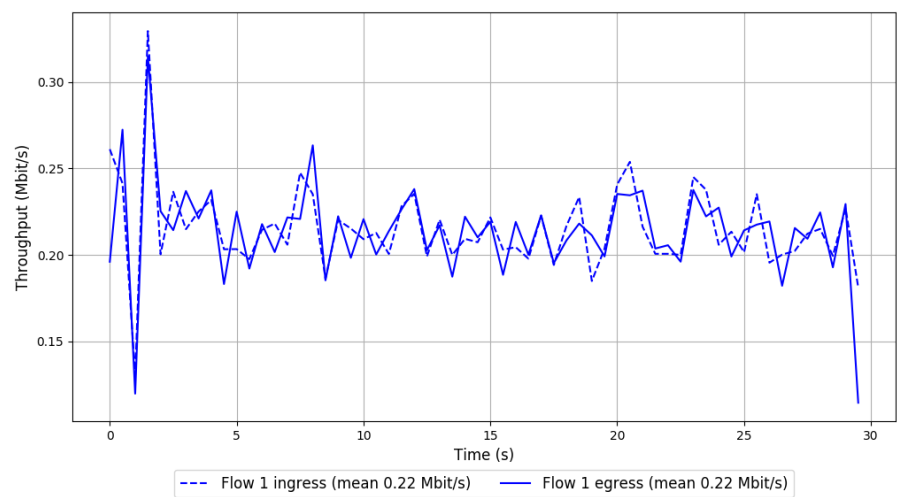
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.200 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-24 06:14:04

End at: 2018-04-24 06:14:34

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.351 ms

Loss rate: 0.77%

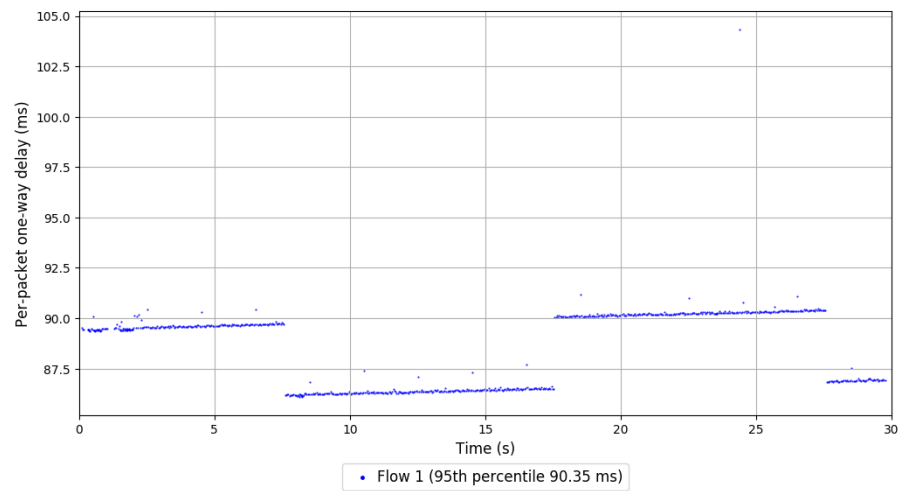
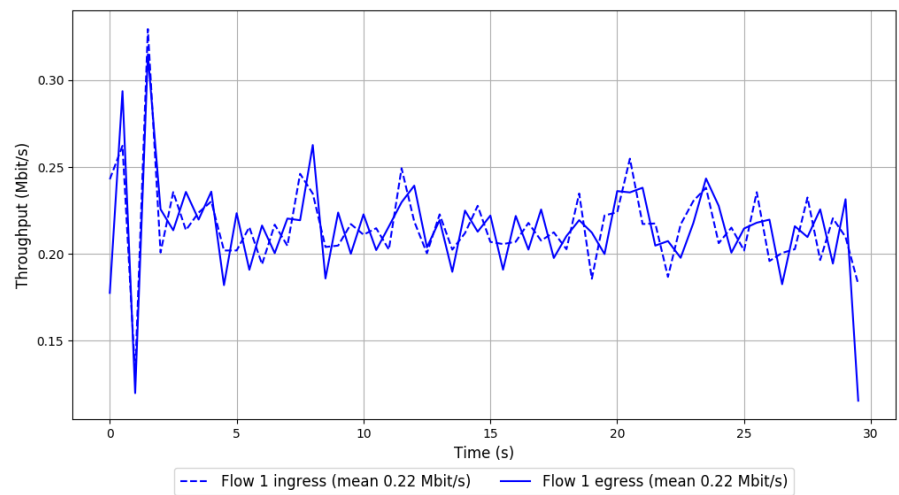
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.351 ms

Loss rate: 0.77%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-24 06:27:58

End at: 2018-04-24 06:28:28

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.009 ms

Loss rate: 0.76%

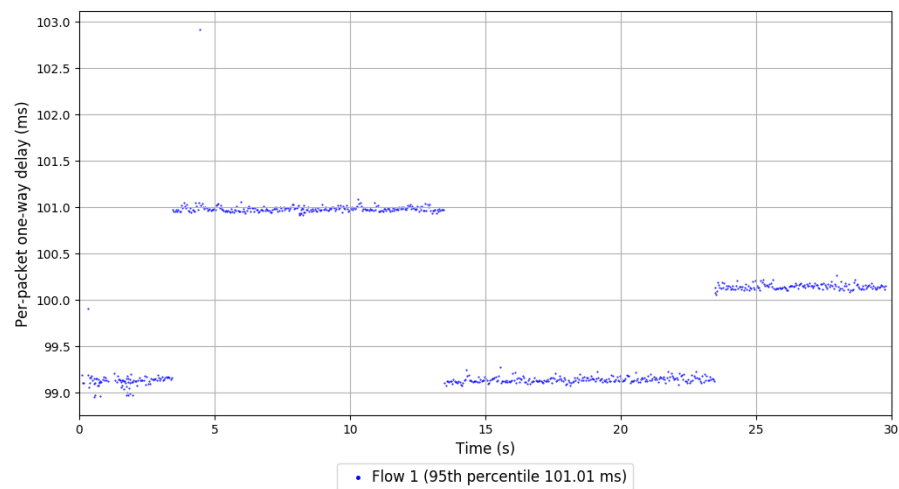
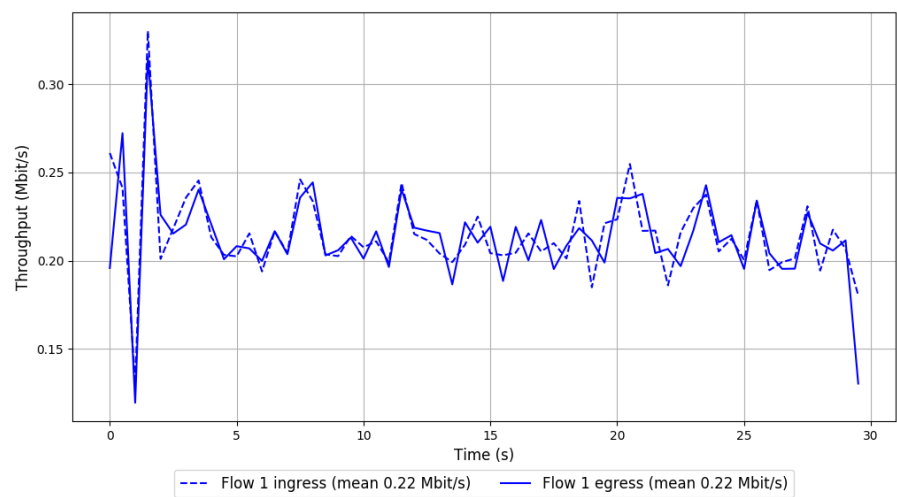
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.009 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-24 06:41:58

End at: 2018-04-24 06:42:28

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 98.852 ms

Loss rate: 0.76%

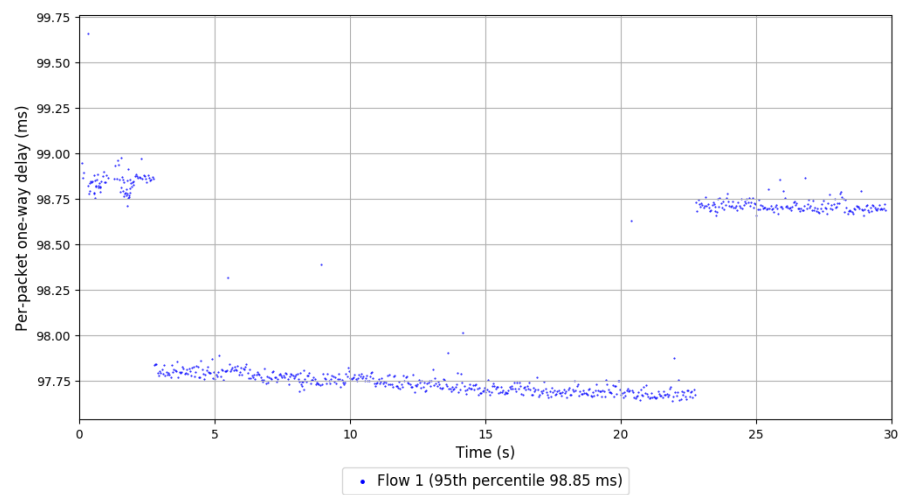
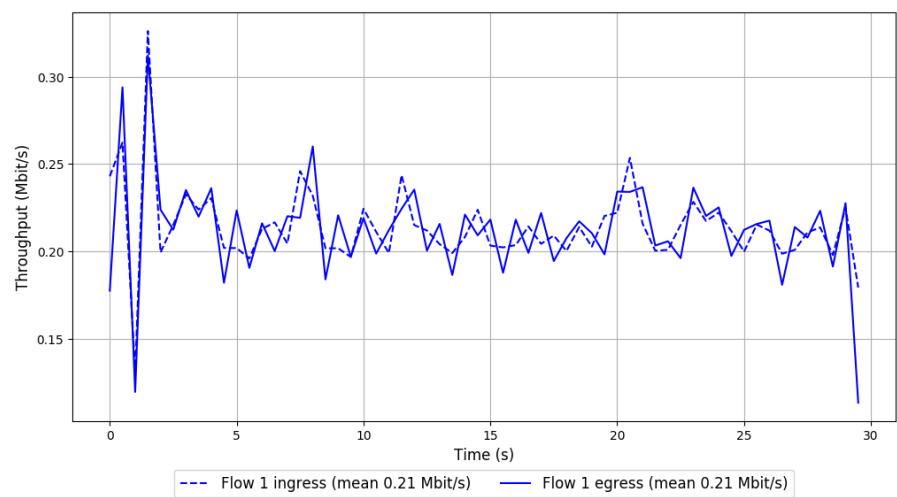
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 98.852 ms

Loss rate: 0.76%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-24 06:55:18

End at: 2018-04-24 06:55:48

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.009 ms

Loss rate: 0.76%

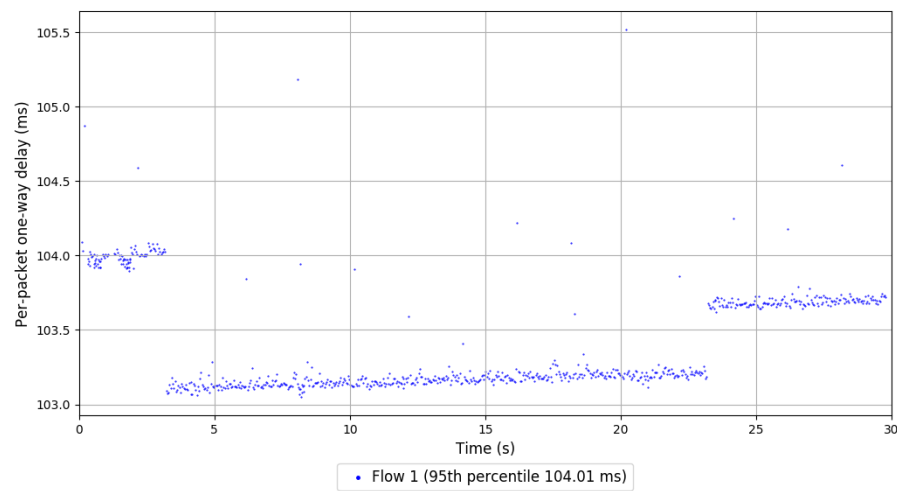
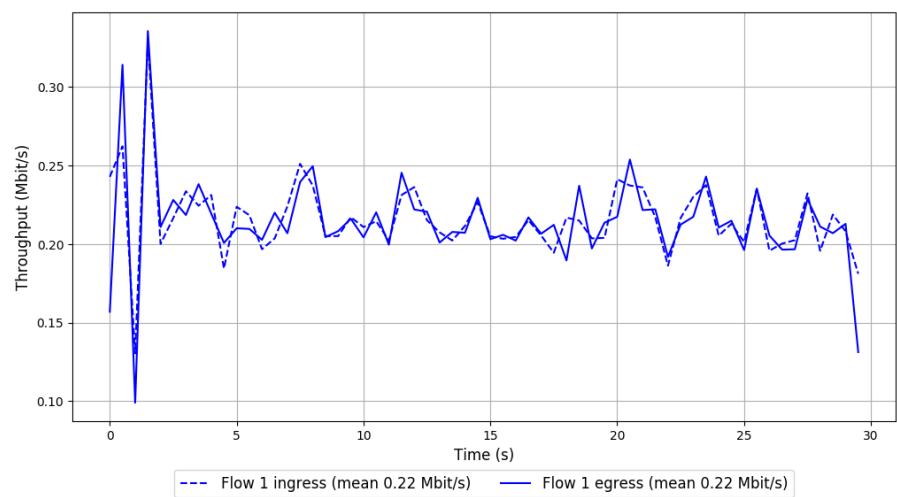
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.009 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-24 07:09:12

End at: 2018-04-24 07:09:42

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.893 ms

Loss rate: 0.76%

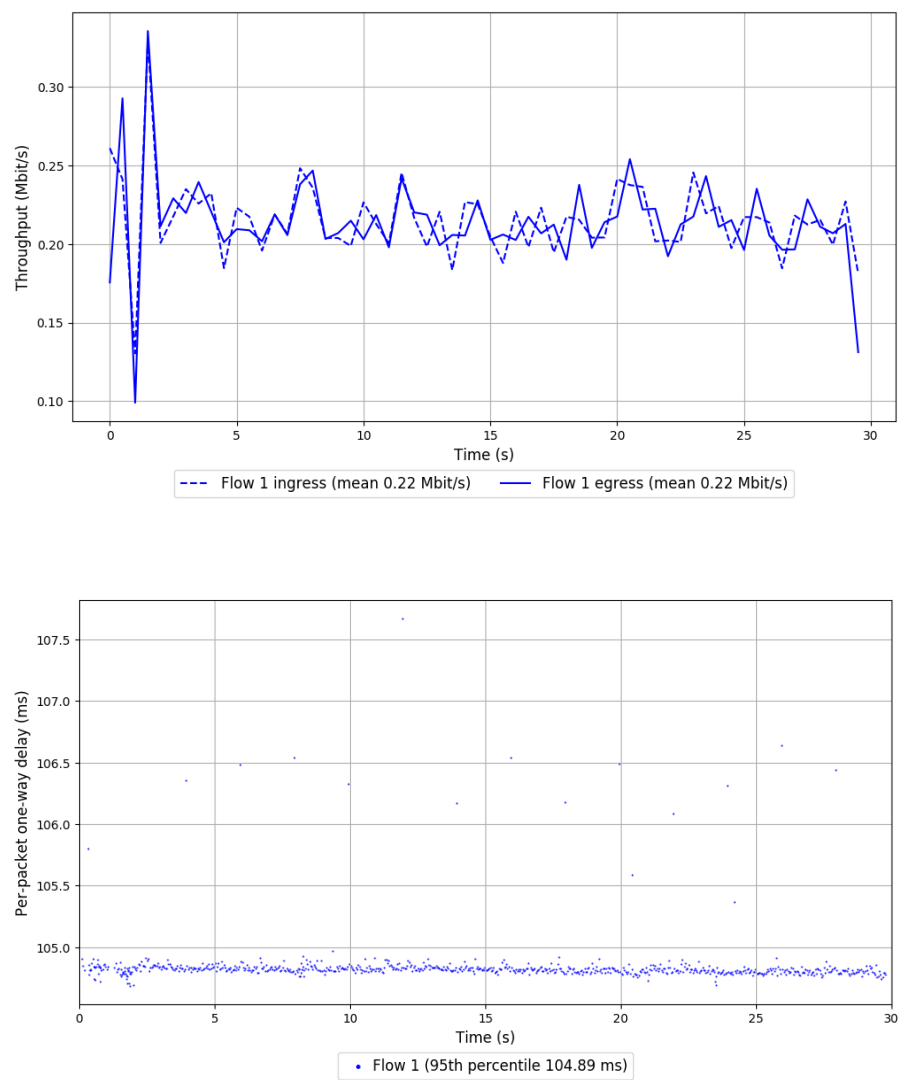
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.893 ms

Loss rate: 0.76%

Run 10: Report of SCRaM — Data Link

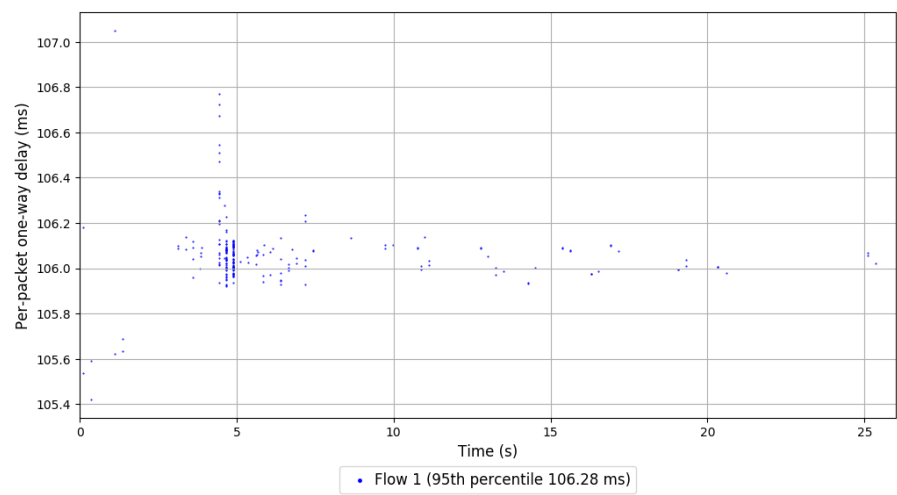
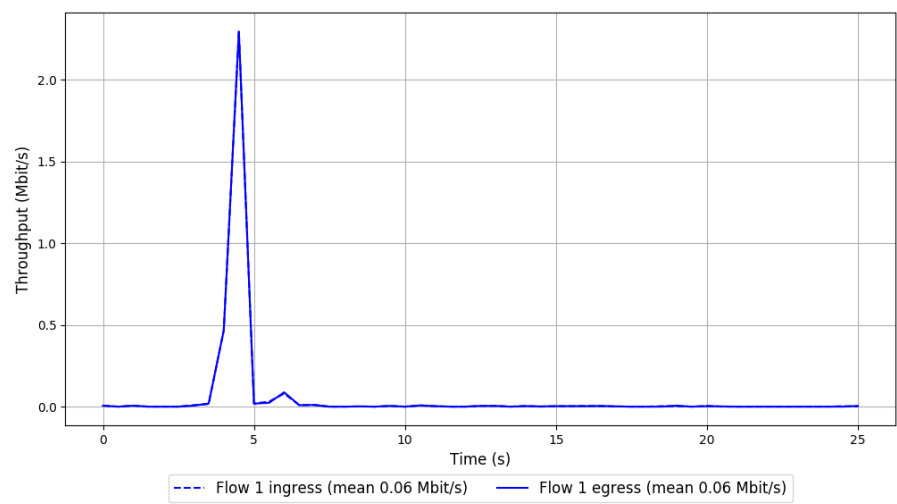


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 05:13:57
End at: 2018-04-24 05:14:27

# Below is generated by plot.py at 2018-04-24 10:06:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 106.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 106.277 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-24 05:27:47

End at: 2018-04-24 05:28:17

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.747 ms

Loss rate: 0.00%

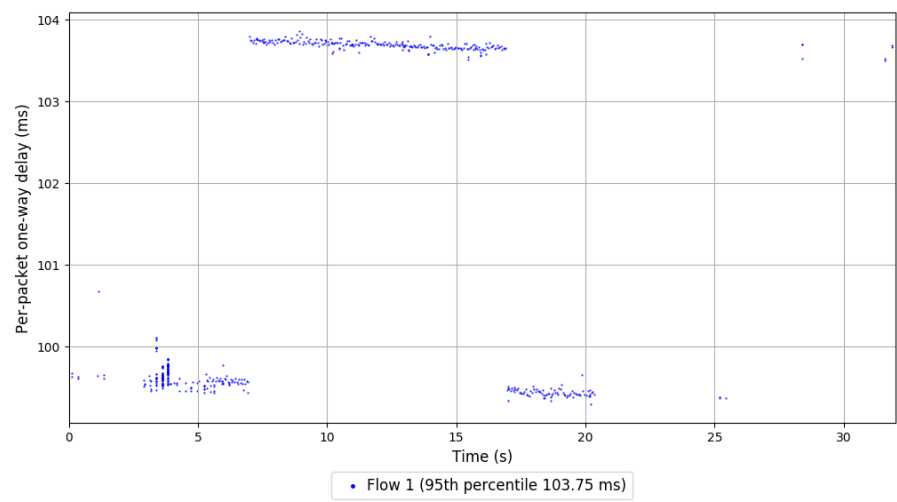
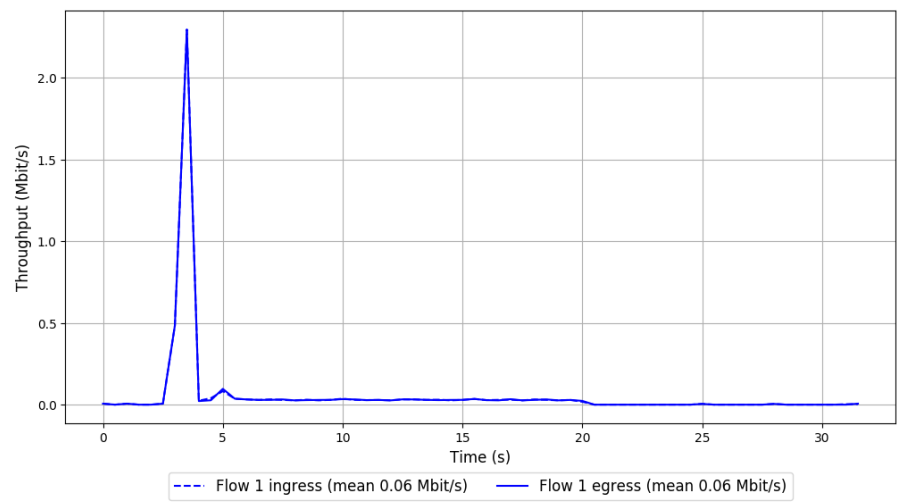
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.747 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 05:41:54

End at: 2018-04-24 05:42:24

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 95.638 ms

Loss rate: 0.00%

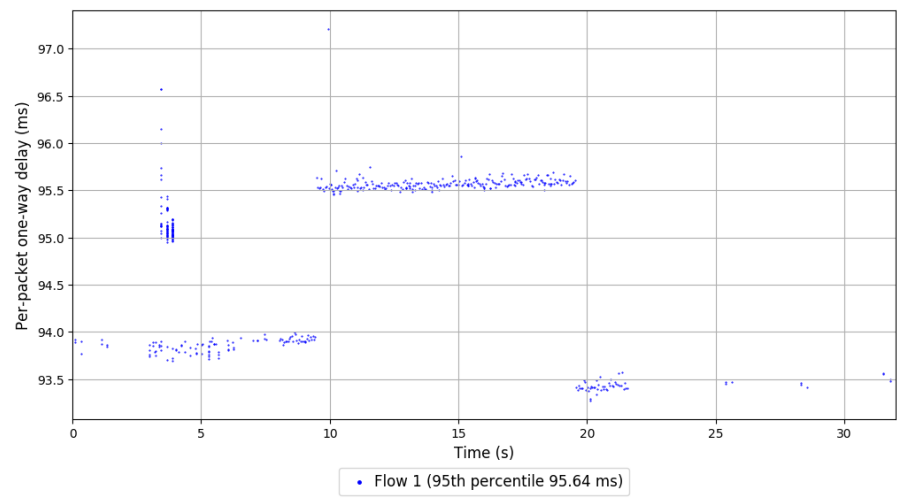
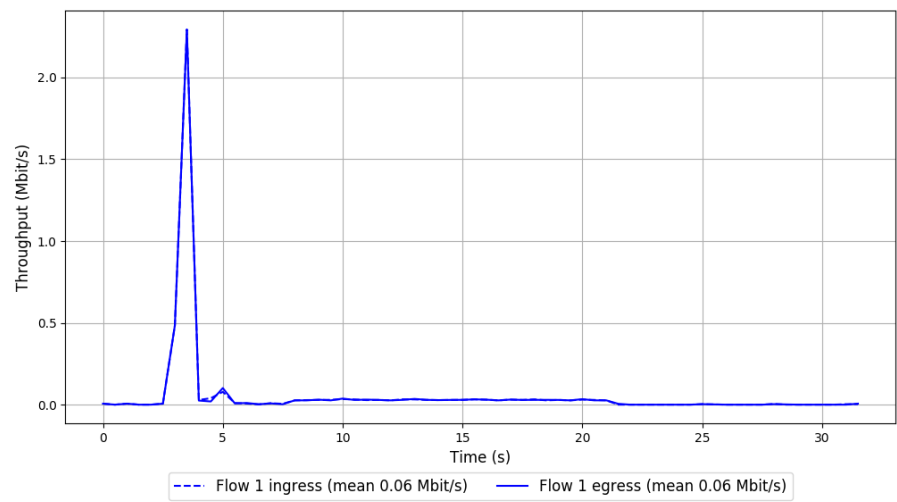
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 95.638 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 05:55:31

End at: 2018-04-24 05:56:01

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 94.437 ms

Loss rate: 0.00%

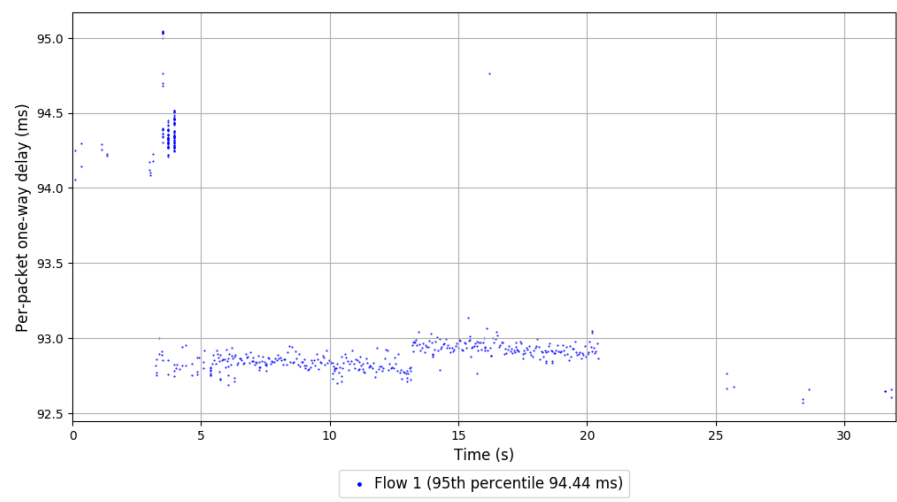
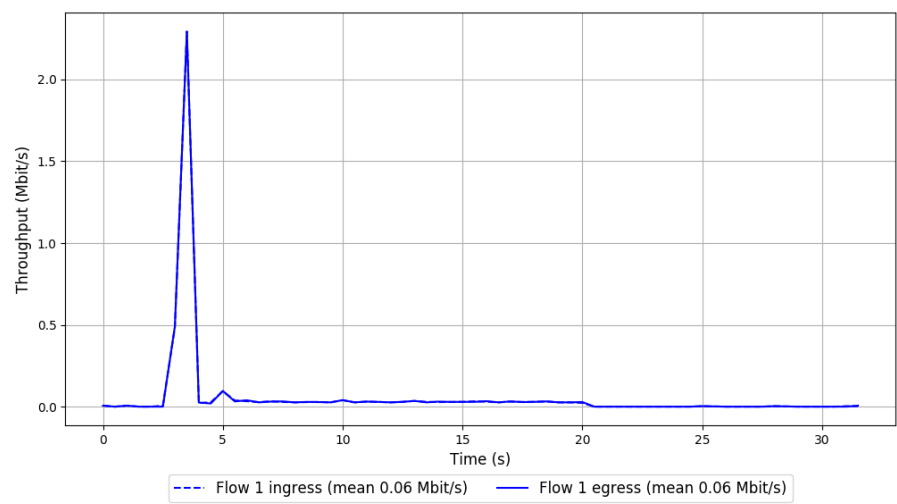
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 94.437 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 06:09:08

End at: 2018-04-24 06:09:38

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 84.747 ms

Loss rate: 0.00%

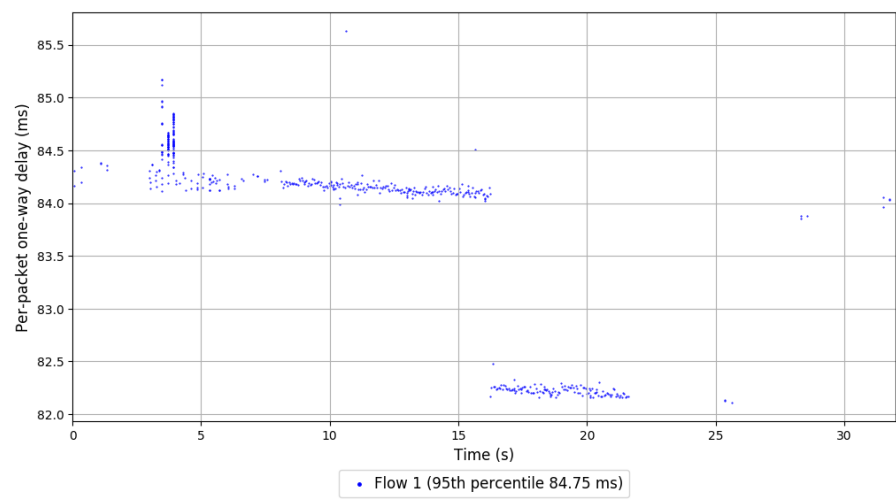
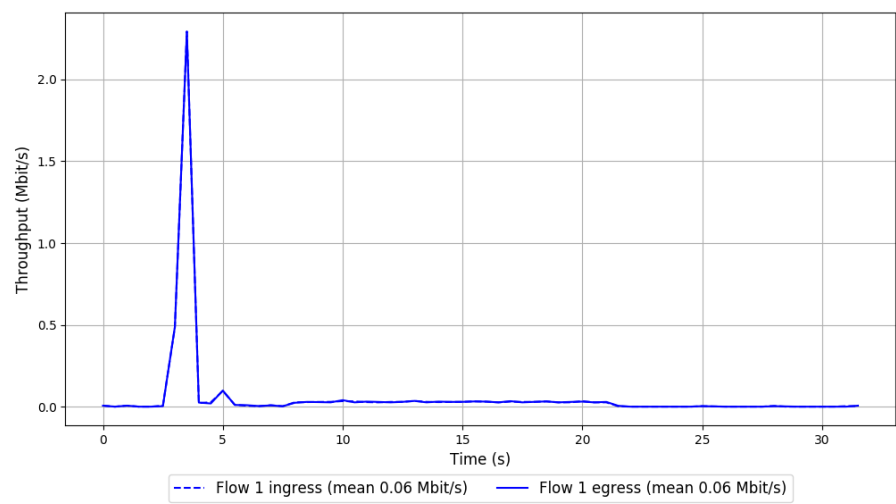
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 84.747 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-24 06:23:18

End at: 2018-04-24 06:23:48

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.273 ms

Loss rate: 0.00%

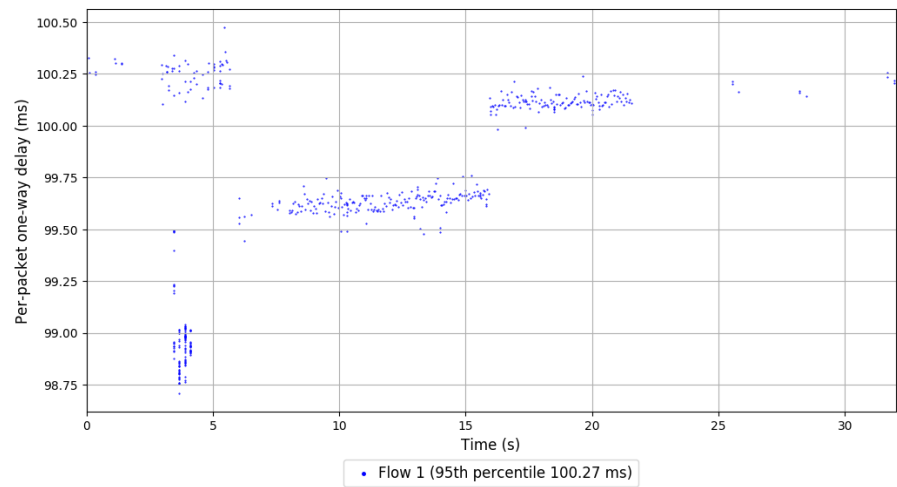
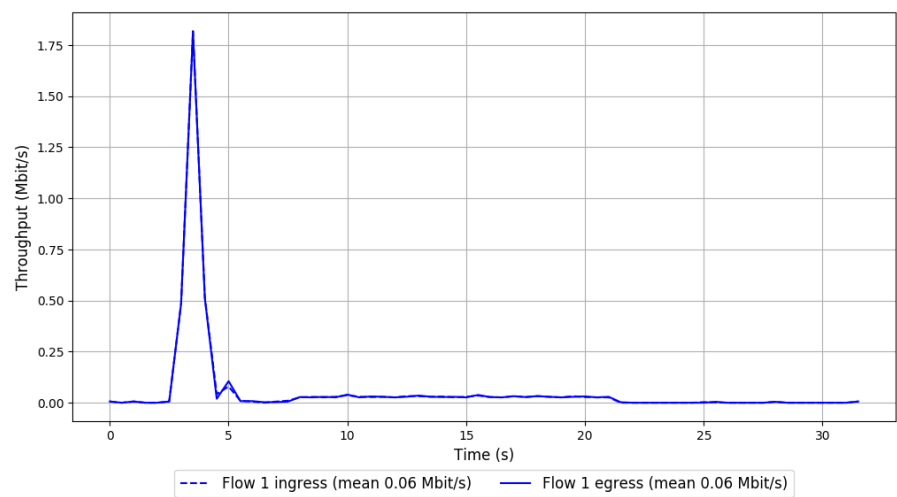
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.273 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-24 06:37:08

End at: 2018-04-24 06:37:38

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 99.834 ms

Loss rate: 0.00%

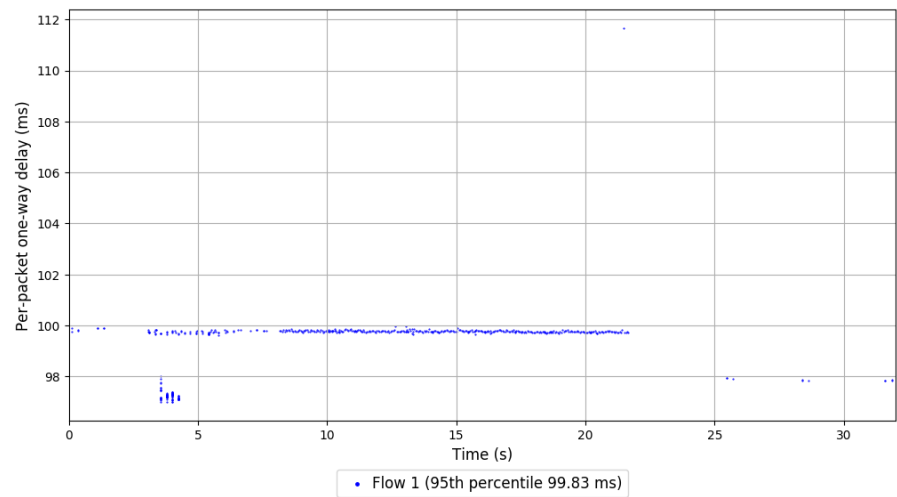
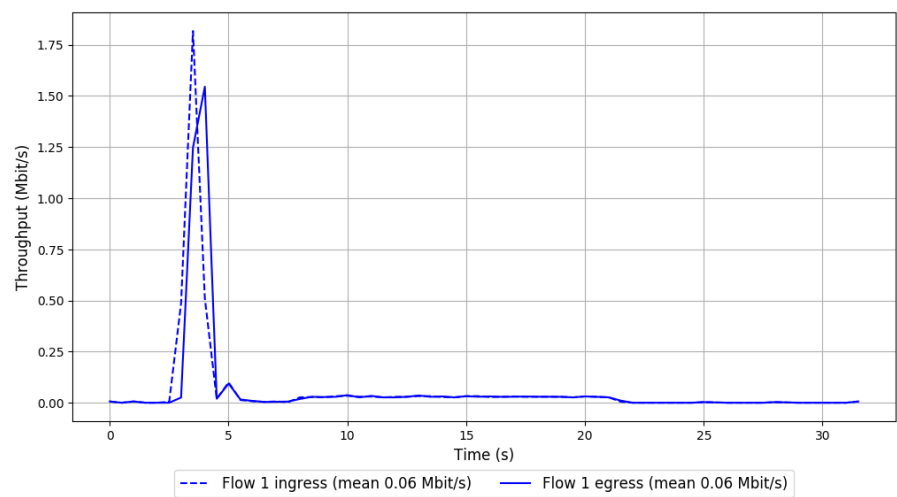
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 99.834 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-24 06:50:59

End at: 2018-04-24 06:51:29

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.331 ms

Loss rate: 0.00%

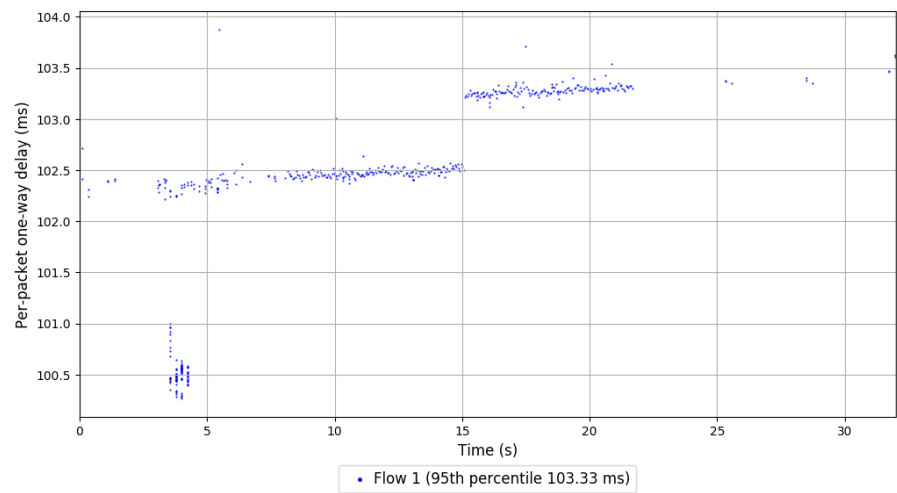
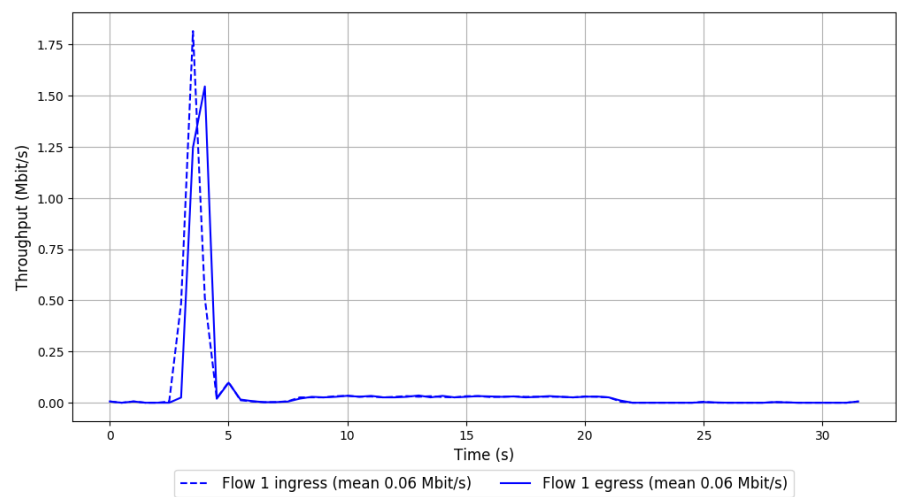
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.331 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-24 07:04:19

End at: 2018-04-24 07:04:49

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.663 ms

Loss rate: 0.00%

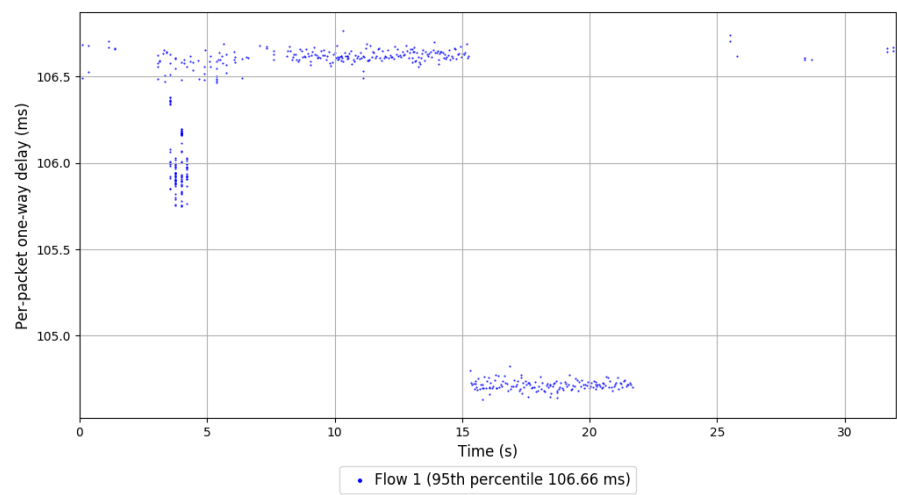
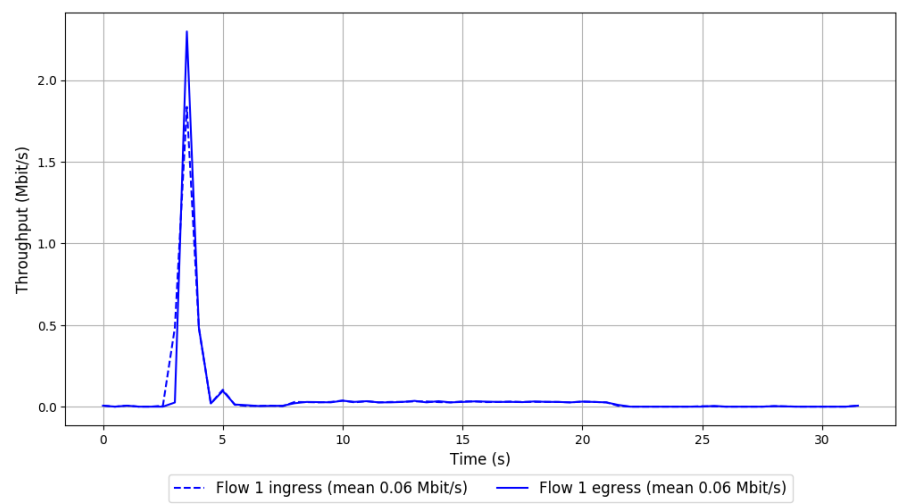
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.663 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-24 07:18:25

End at: 2018-04-24 07:18:55

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.310 ms

Loss rate: 0.00%

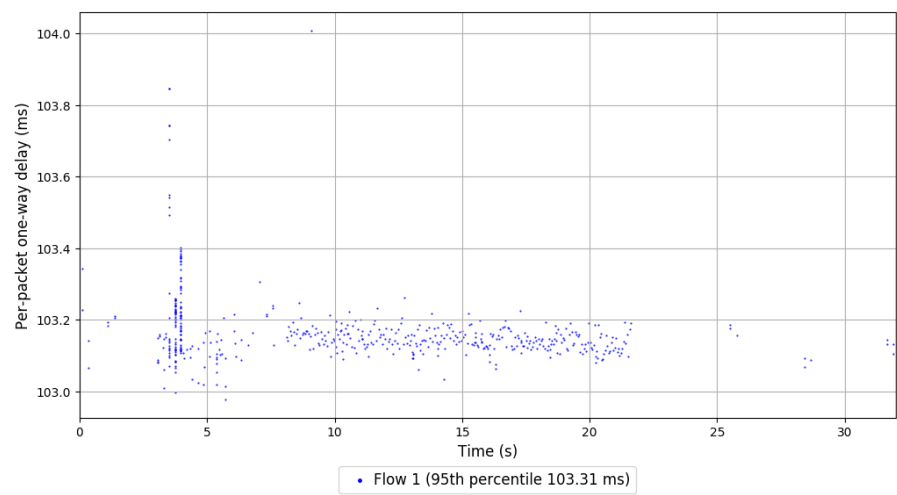
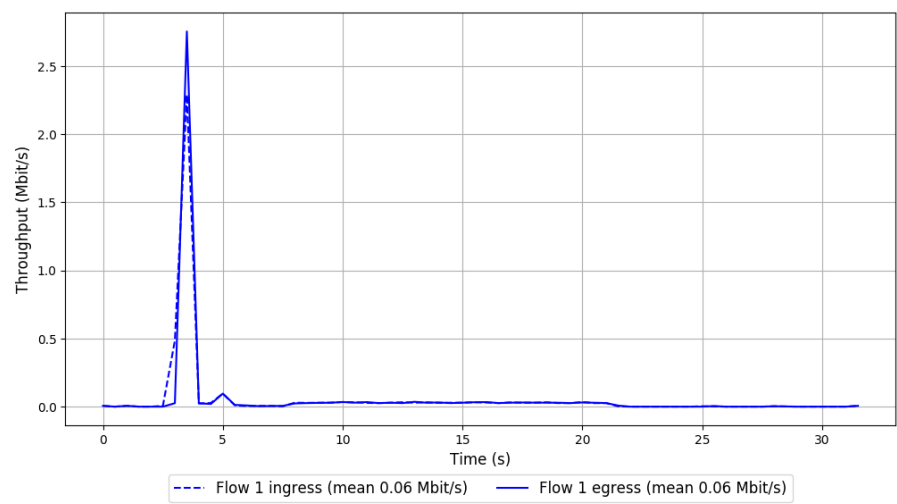
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.310 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-24 05:18:05

End at: 2018-04-24 05:18:35

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 102.442 ms

Loss rate: 0.89%

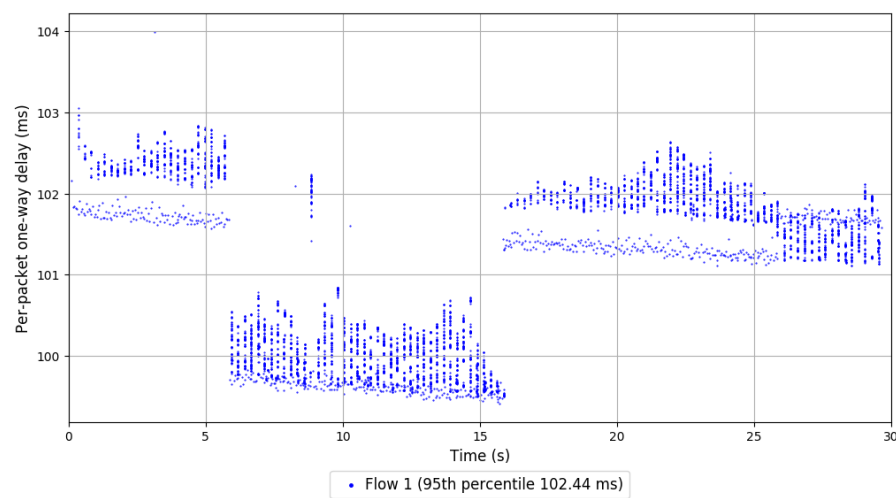
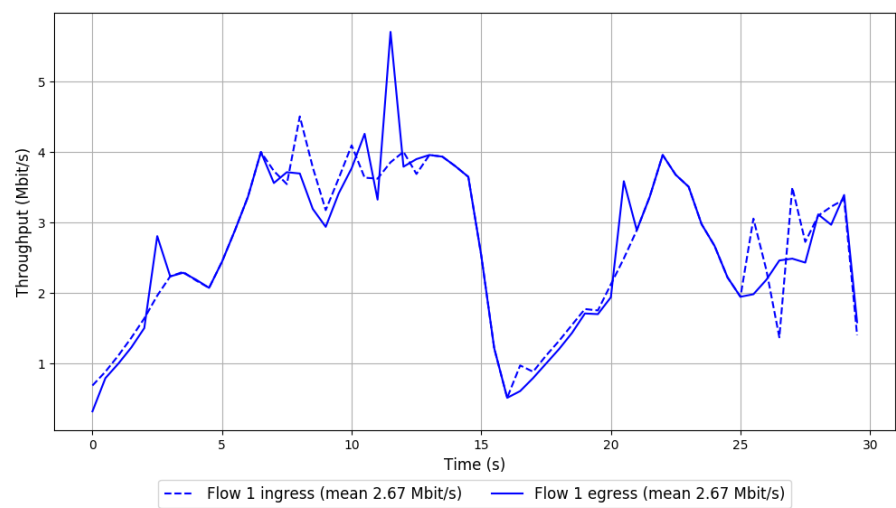
-- Flow 1:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 102.442 ms

Loss rate: 0.89%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-24 05:32:04

End at: 2018-04-24 05:32:34

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 97.331 ms

Loss rate: 1.00%

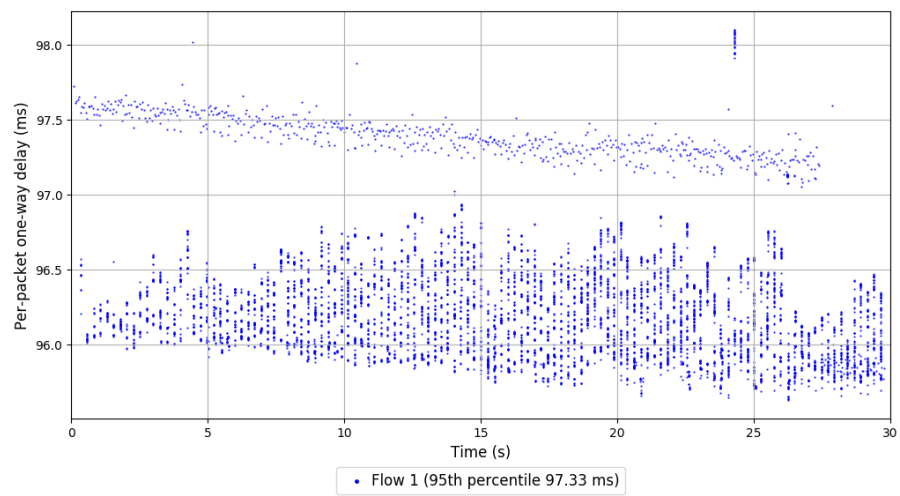
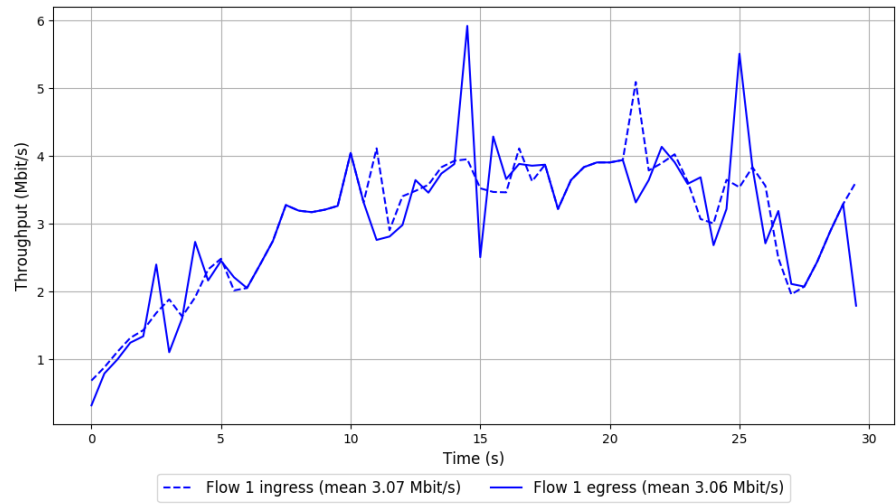
-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 97.331 ms

Loss rate: 1.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-24 05:45:51

End at: 2018-04-24 05:46:21

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 97.217 ms

Loss rate: 0.01%

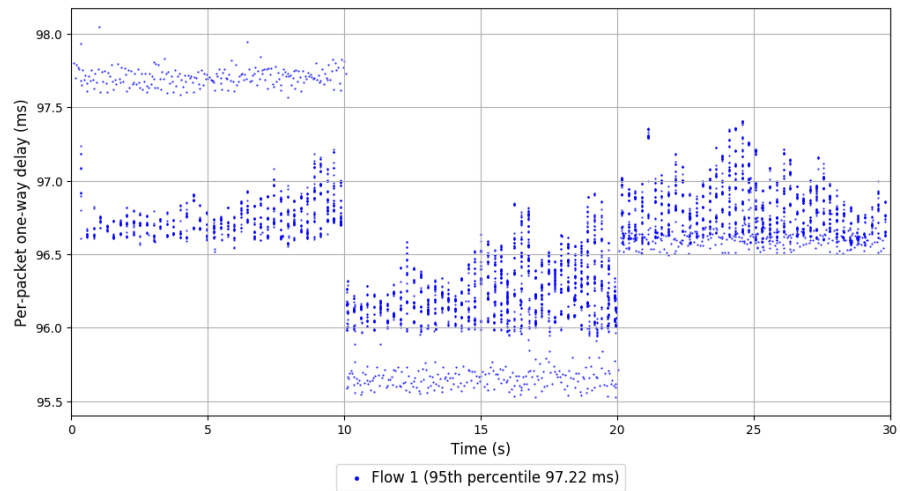
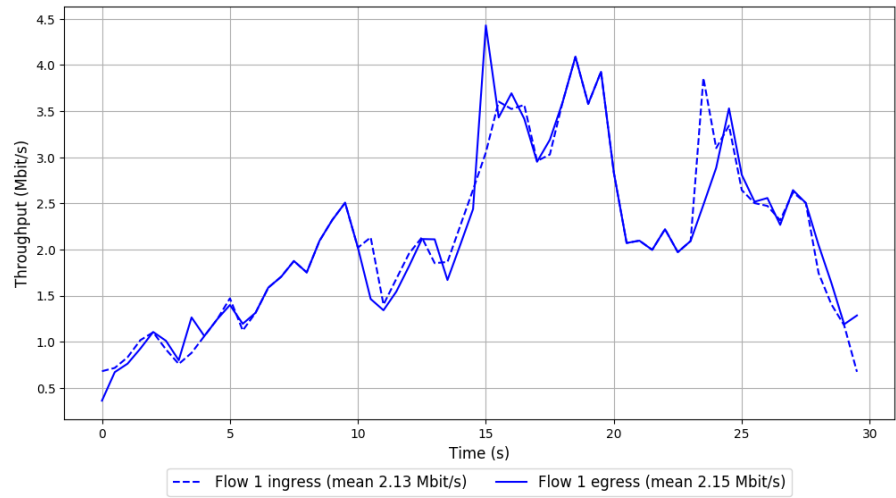
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 97.217 ms

Loss rate: 0.01%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-24 05:59:28

End at: 2018-04-24 05:59:58

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 91.552 ms

Loss rate: 0.31%

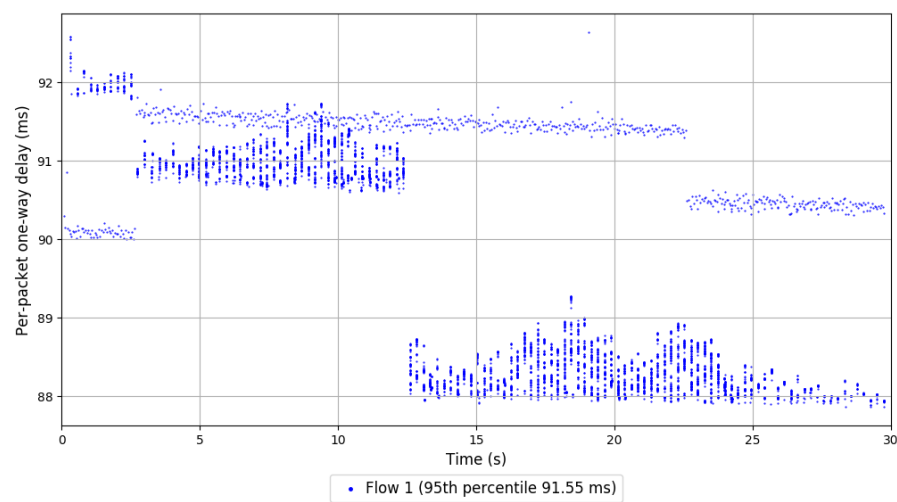
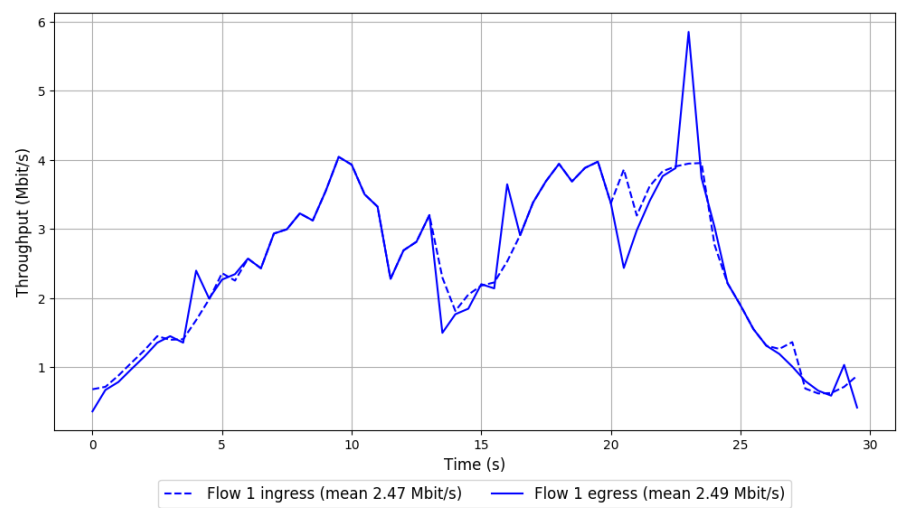
-- Flow 1:

Average throughput: 2.49 Mbit/s

95th percentile per-packet one-way delay: 91.552 ms

Loss rate: 0.31%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-24 06:13:22

End at: 2018-04-24 06:13:52

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 89.252 ms

Loss rate: 1.07%

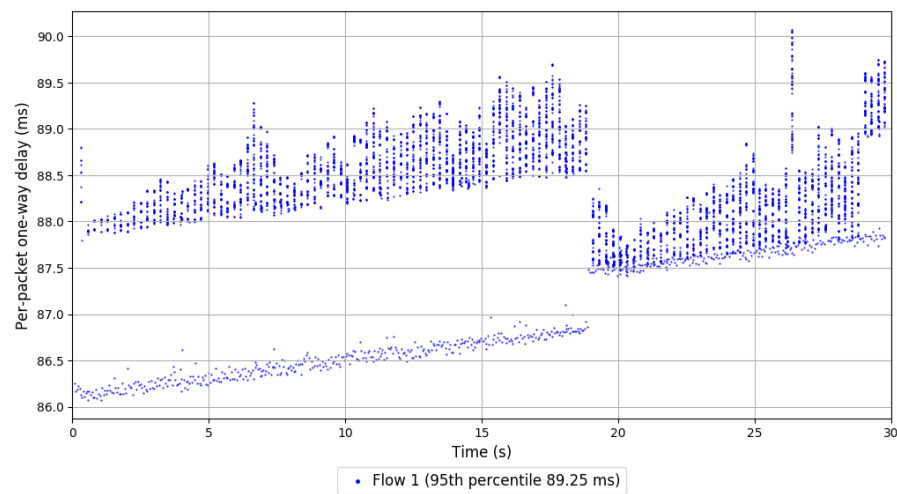
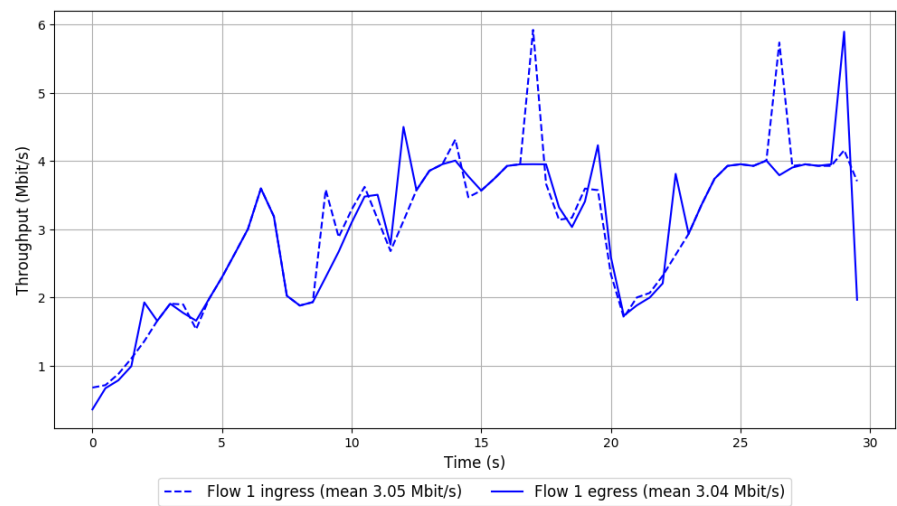
-- Flow 1:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 89.252 ms

Loss rate: 1.07%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-24 06:27:16

End at: 2018-04-24 06:27:46

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 98.965 ms

Loss rate: 1.05%

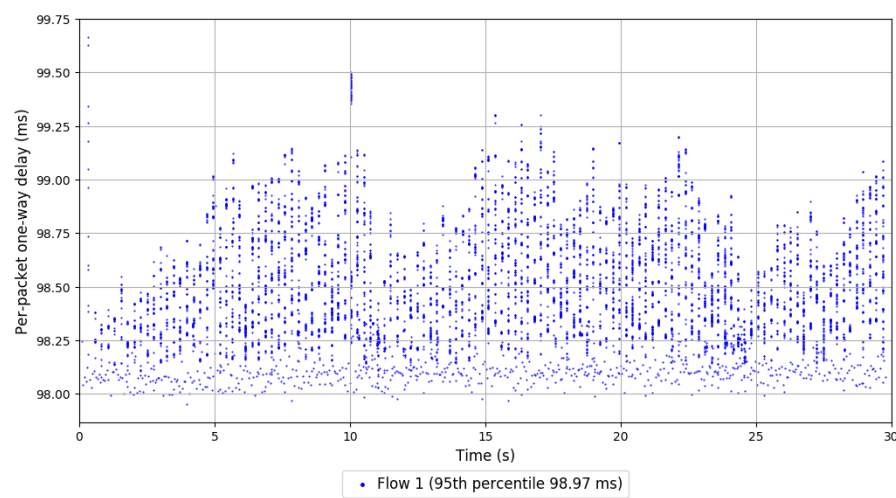
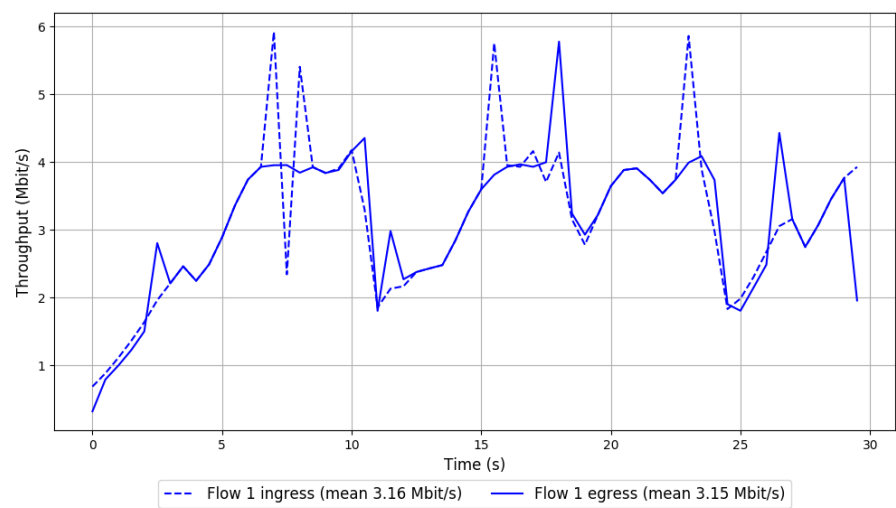
-- Flow 1:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 98.965 ms

Loss rate: 1.05%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-24 06:41:17

End at: 2018-04-24 06:41:47

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 98.628 ms

Loss rate: 0.85%

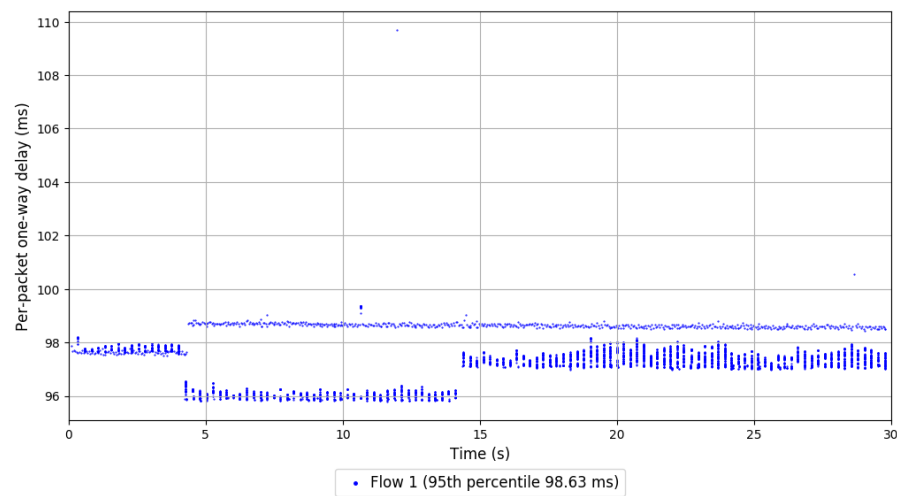
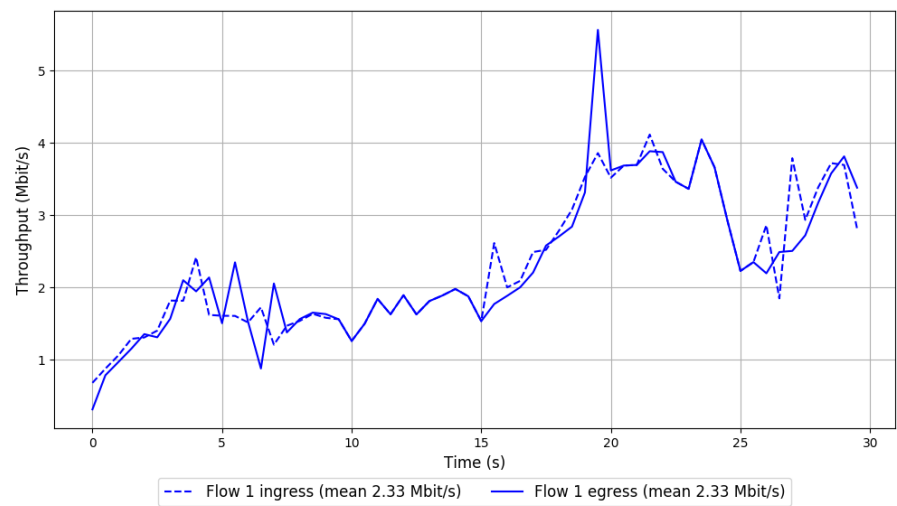
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 98.628 ms

Loss rate: 0.85%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-24 06:54:36

End at: 2018-04-24 06:55:07

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 105.144 ms

Loss rate: 0.63%

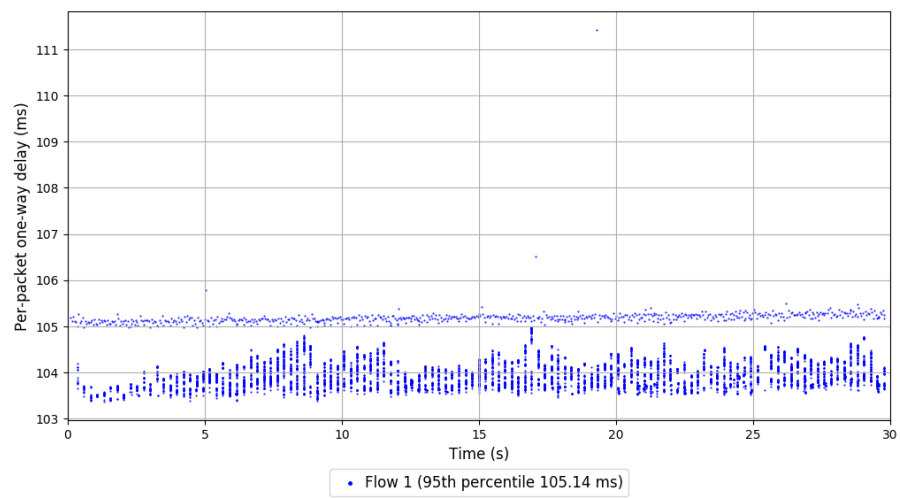
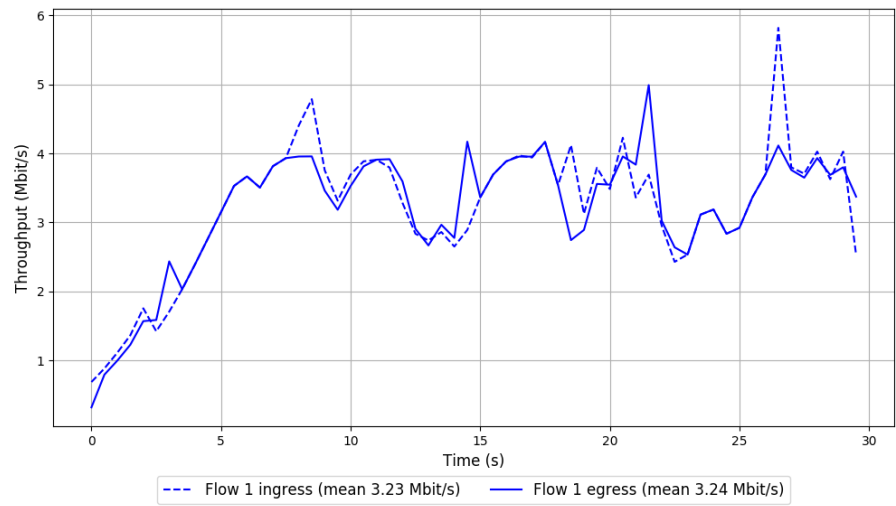
-- Flow 1:

Average throughput: 3.24 Mbit/s

95th percentile per-packet one-way delay: 105.144 ms

Loss rate: 0.63%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-24 07:08:31

End at: 2018-04-24 07:09:01

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 106.601 ms

Loss rate: 1.12%

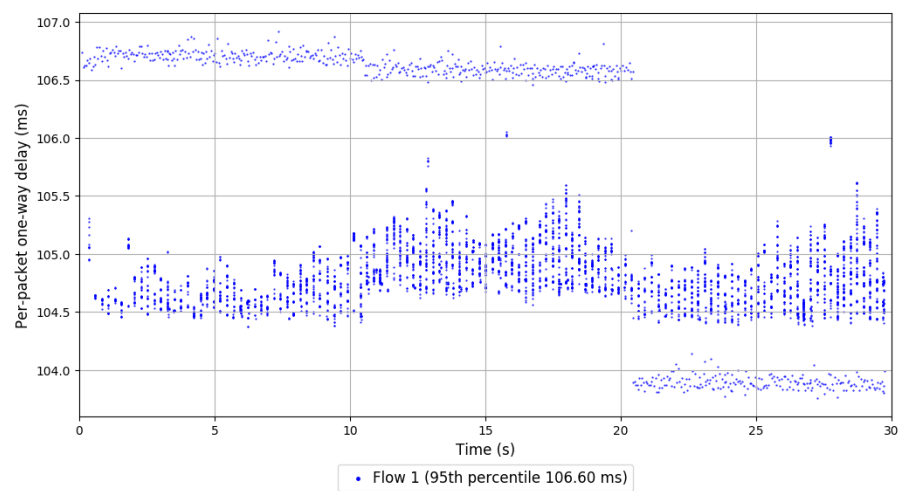
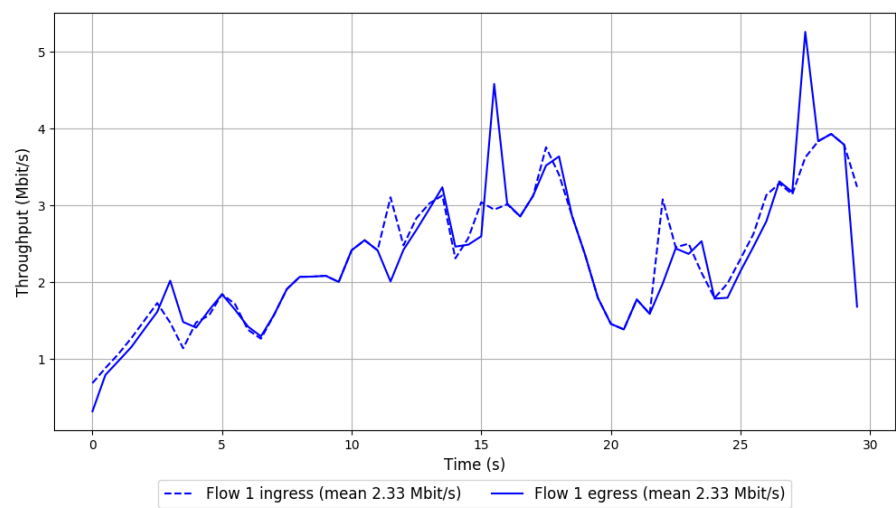
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 106.601 ms

Loss rate: 1.12%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-24 07:22:38

End at: 2018-04-24 07:23:08

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 106.996 ms

Loss rate: 1.38%

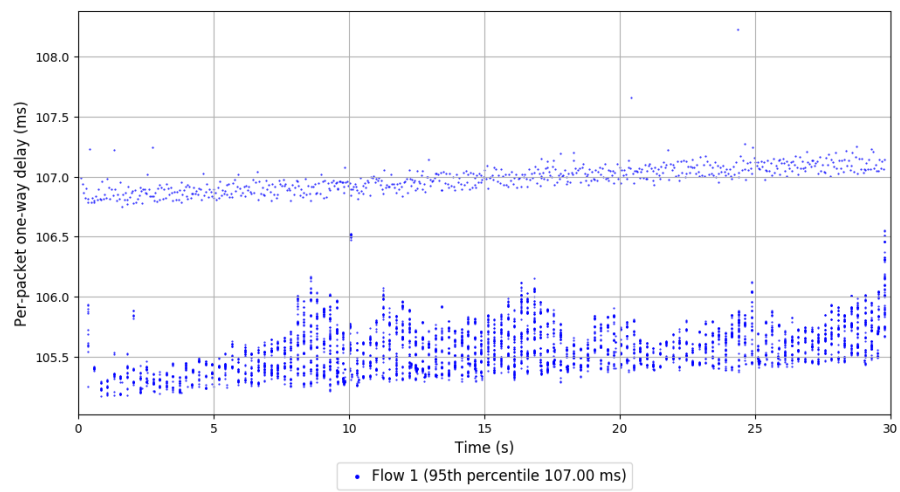
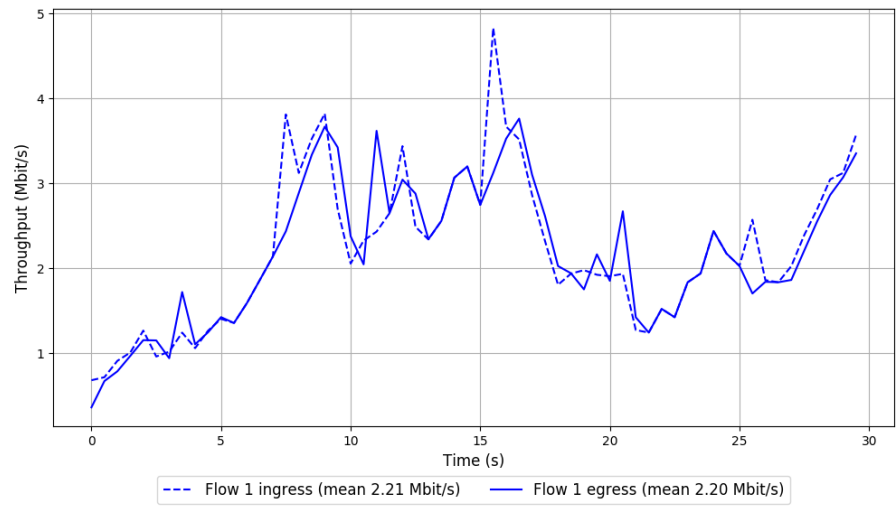
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 106.996 ms

Loss rate: 1.38%

Run 10: Report of Sprout — Data Link

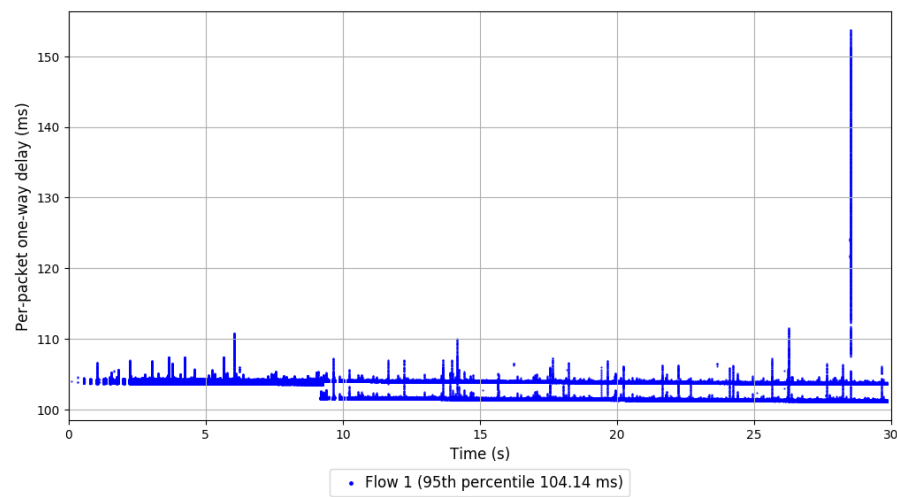
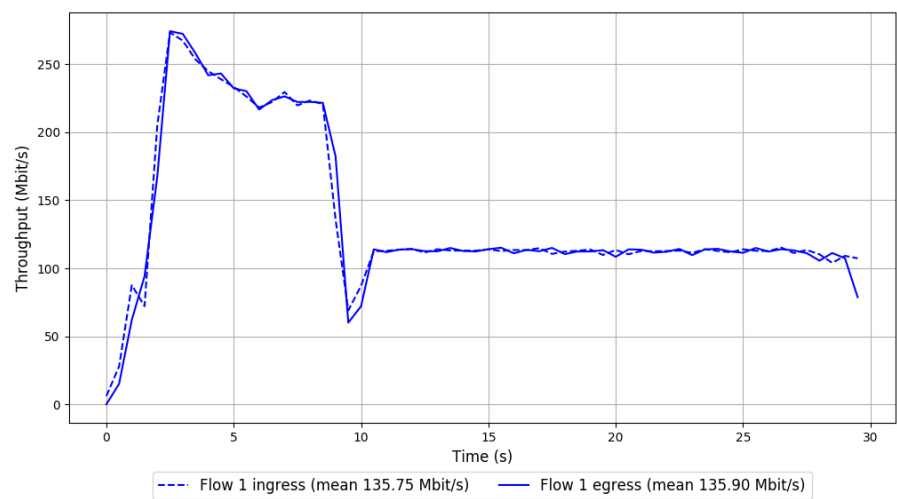


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 05:16:32
End at: 2018-04-24 05:17:02

# Below is generated by plot.py at 2018-04-24 10:06:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.90 Mbit/s
95th percentile per-packet one-way delay: 104.144 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 135.90 Mbit/s
95th percentile per-packet one-way delay: 104.144 ms
Loss rate: 0.64%
```


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

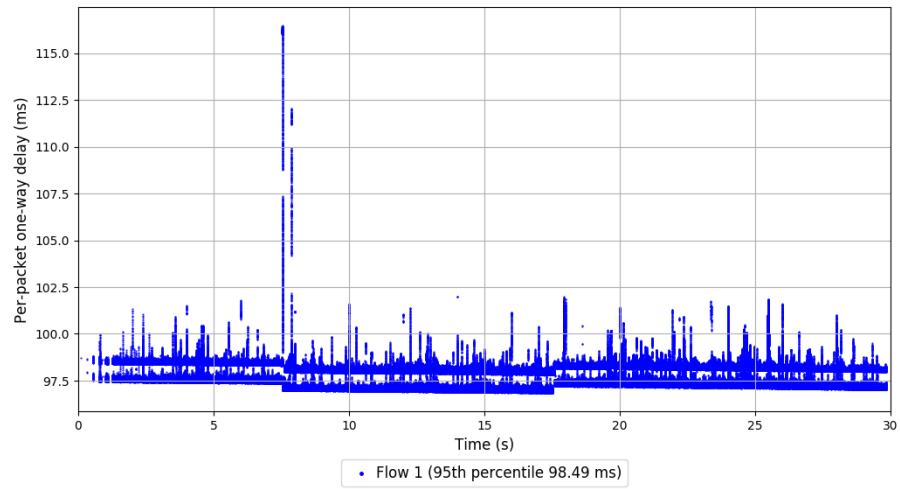
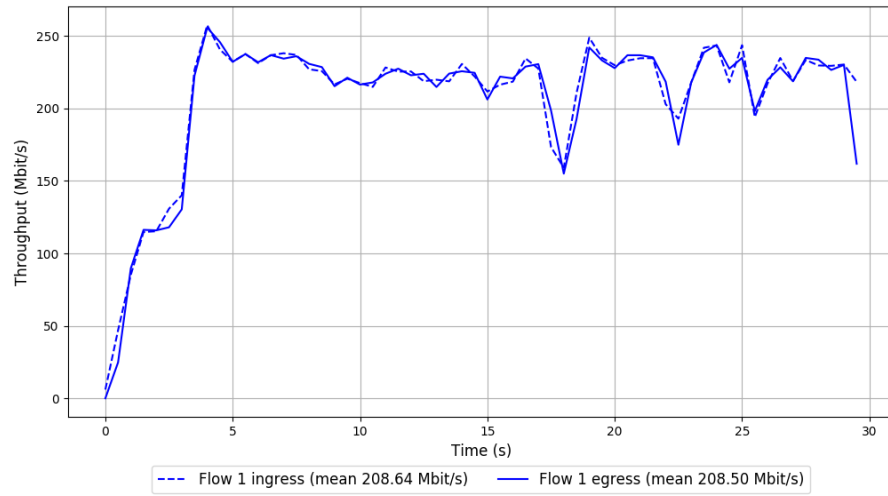


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 05:30:24
End at: 2018-04-24 05:30:54

# Below is generated by plot.py at 2018-04-24 10:06:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.50 Mbit/s
95th percentile per-packet one-way delay: 98.490 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 208.50 Mbit/s
95th percentile per-packet one-way delay: 98.490 ms
Loss rate: 0.82%
```

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

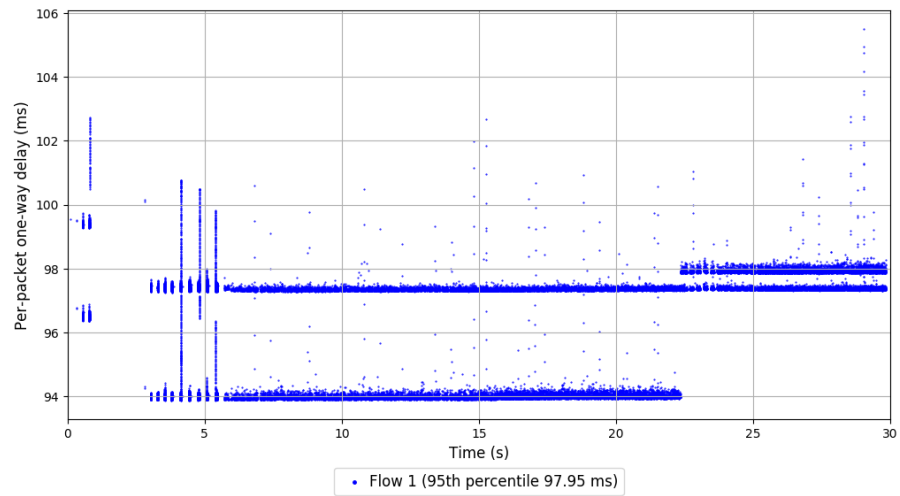
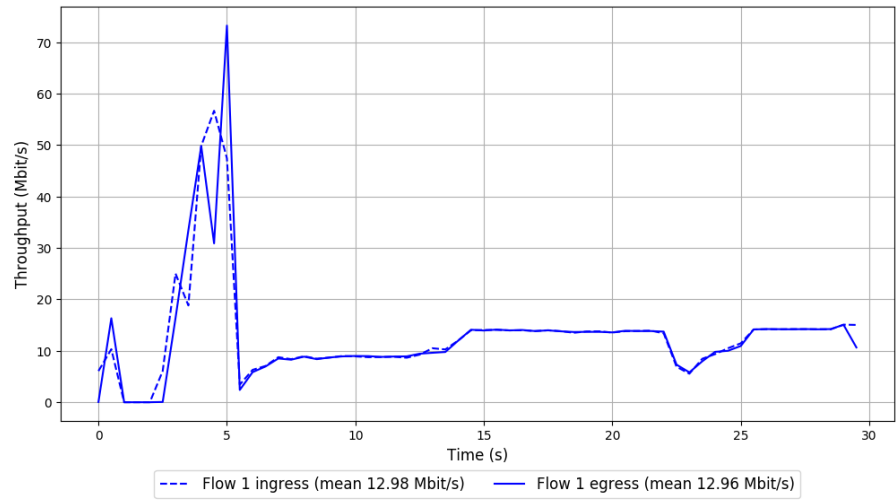


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 05:44:29
End at: 2018-04-24 05:44:59

# Below is generated by plot.py at 2018-04-24 10:06:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 97.950 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 12.96 Mbit/s
95th percentile per-packet one-way delay: 97.950 ms
Loss rate: 0.92%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 05:58:06

End at: 2018-04-24 05:58:36

Below is generated by plot.py at 2018-04-24 10:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 92.616 ms

Loss rate: 0.65%

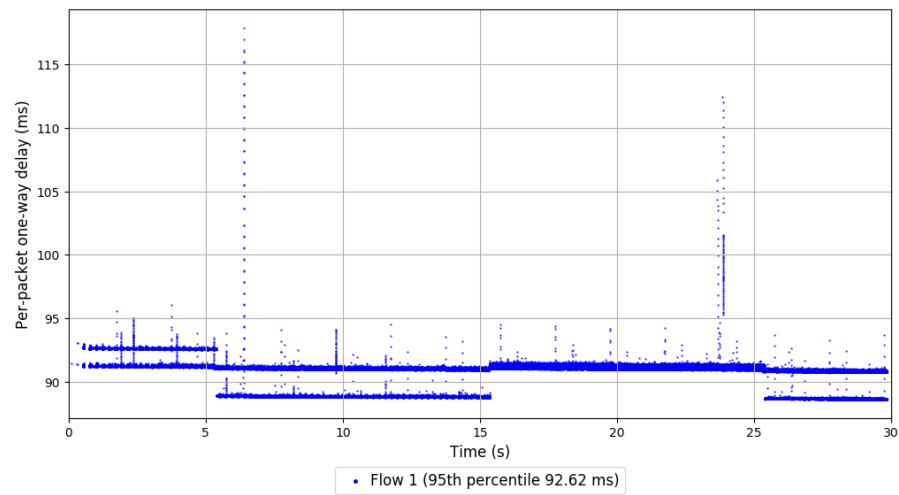
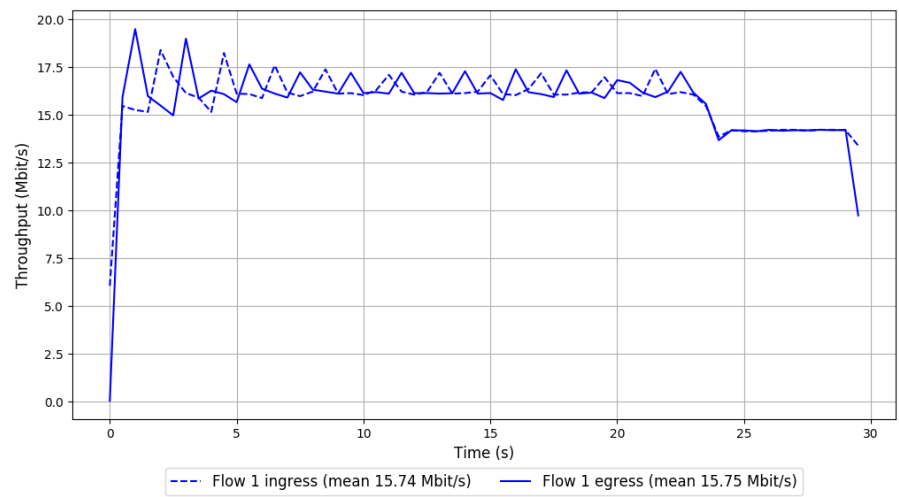
-- Flow 1:

Average throughput: 15.75 Mbit/s

95th percentile per-packet one-way delay: 92.616 ms

Loss rate: 0.65%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 06:11:43

End at: 2018-04-24 06:12:13

Below is generated by plot.py at 2018-04-24 10:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.70 Mbit/s

95th percentile per-packet one-way delay: 85.060 ms

Loss rate: 0.63%

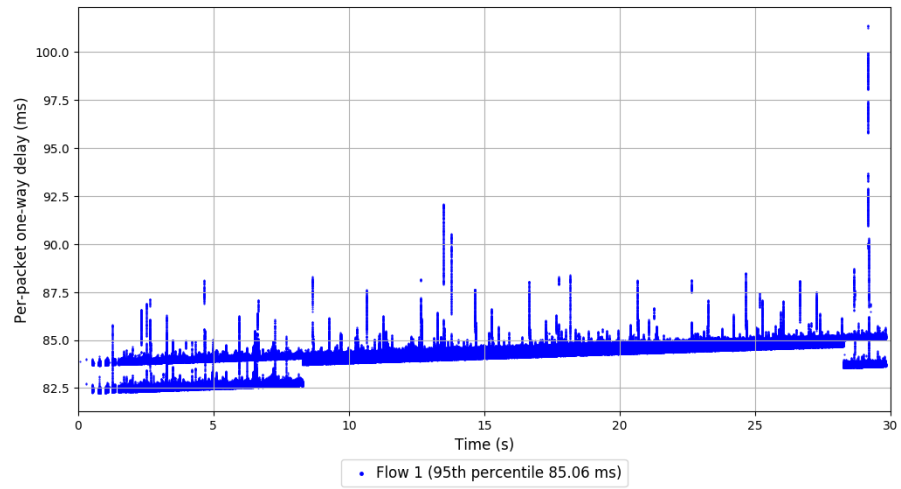
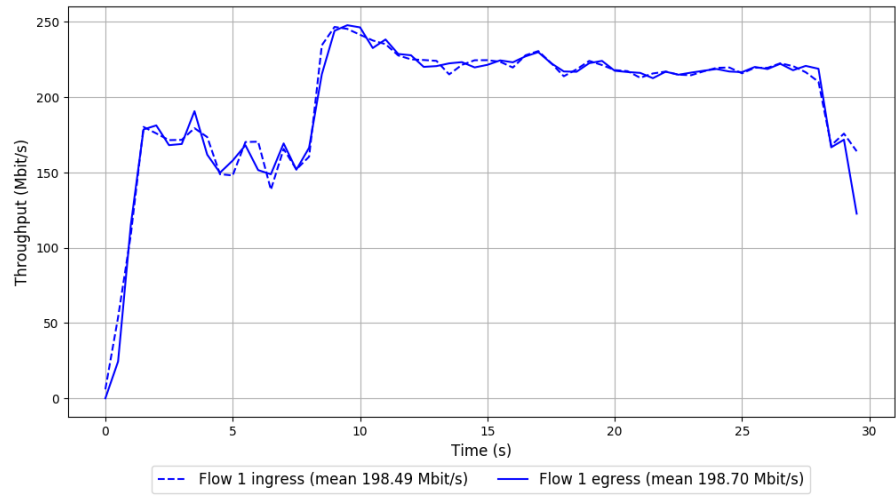
-- Flow 1:

Average throughput: 198.70 Mbit/s

95th percentile per-packet one-way delay: 85.060 ms

Loss rate: 0.63%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 06:25:53

End at: 2018-04-24 06:26:23

Below is generated by plot.py at 2018-04-24 10:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.07 Mbit/s

95th percentile per-packet one-way delay: 101.125 ms

Loss rate: 2.27%

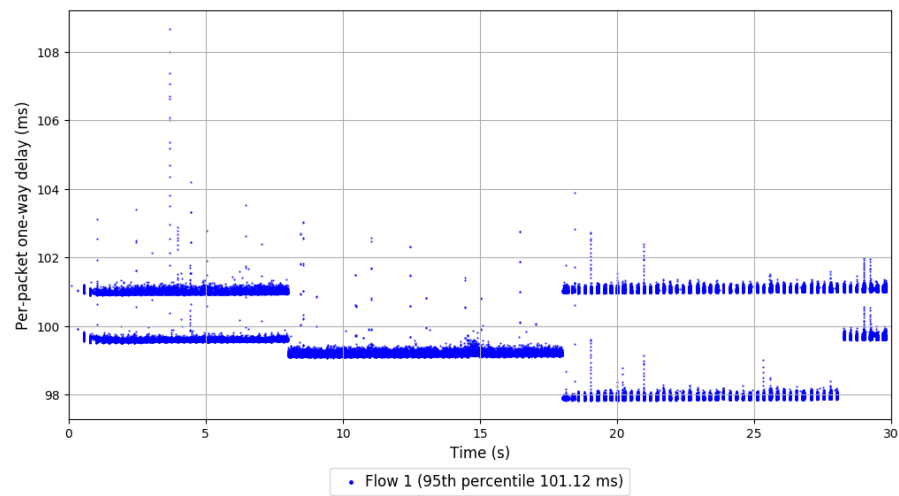
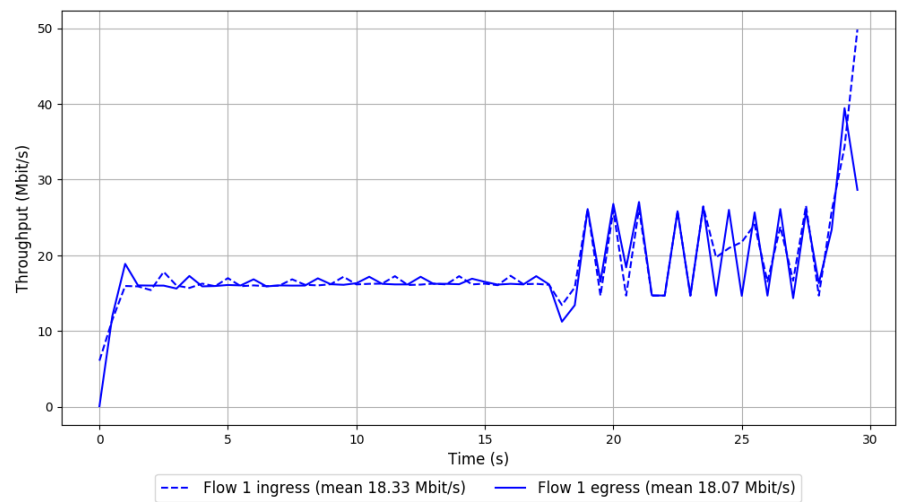
-- Flow 1:

Average throughput: 18.07 Mbit/s

95th percentile per-packet one-way delay: 101.125 ms

Loss rate: 2.27%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 06:39:46

End at: 2018-04-24 06:40:16

Below is generated by plot.py at 2018-04-24 10:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.71 Mbit/s

95th percentile per-packet one-way delay: 98.277 ms

Loss rate: 0.80%

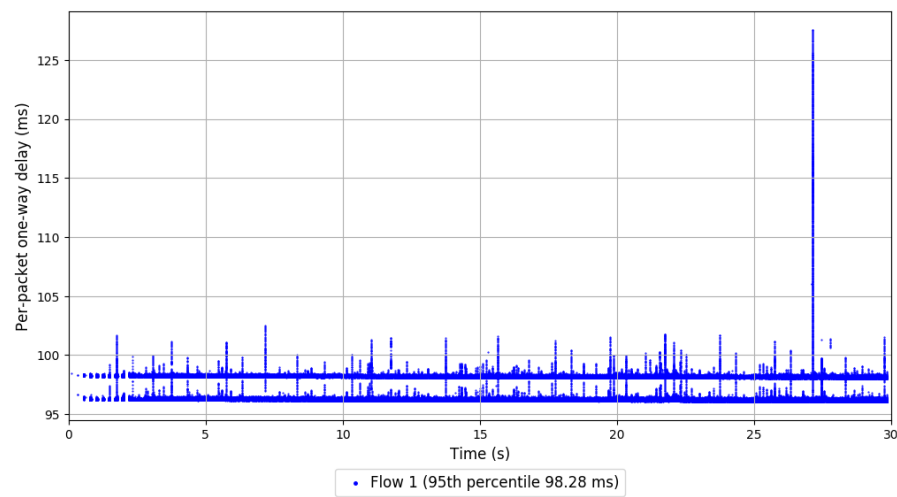
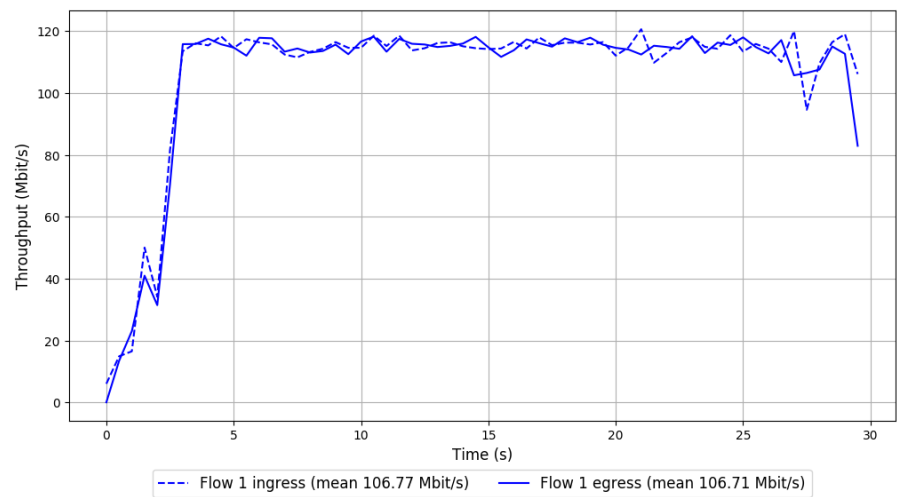
-- Flow 1:

Average throughput: 106.71 Mbit/s

95th percentile per-packet one-way delay: 98.277 ms

Loss rate: 0.80%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 06:53:07

End at: 2018-04-24 06:53:37

Below is generated by plot.py at 2018-04-24 10:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 104.542 ms

Loss rate: 0.79%

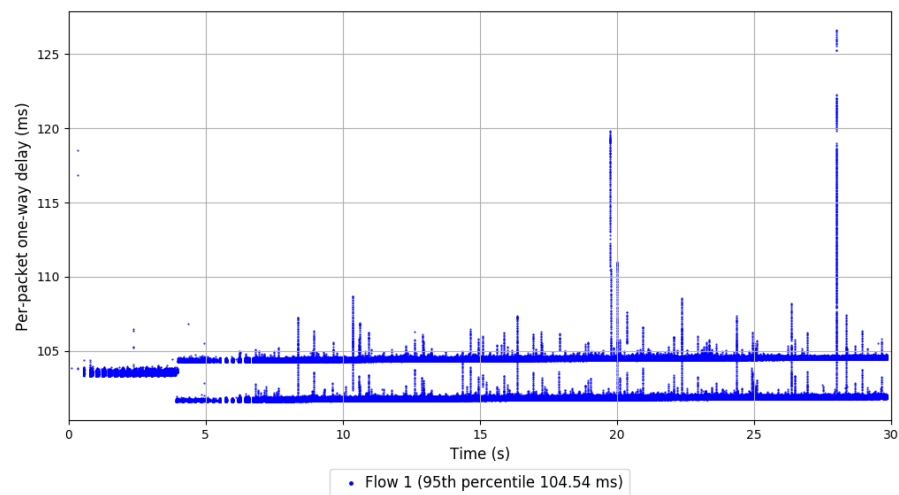
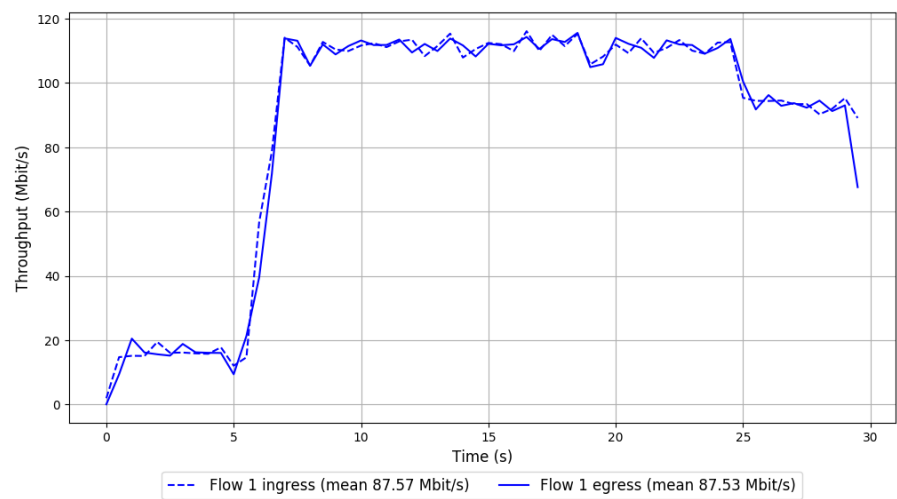
-- Flow 1:

Average throughput: 87.53 Mbit/s

95th percentile per-packet one-way delay: 104.542 ms

Loss rate: 0.79%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 07:06:56

End at: 2018-04-24 07:07:26

Below is generated by plot.py at 2018-04-24 10:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.16 Mbit/s

95th percentile per-packet one-way delay: 106.500 ms

Loss rate: 0.25%

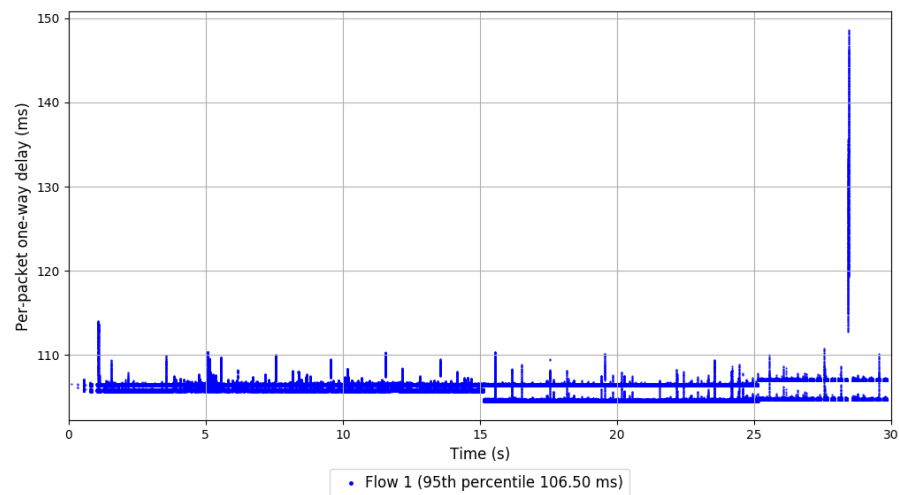
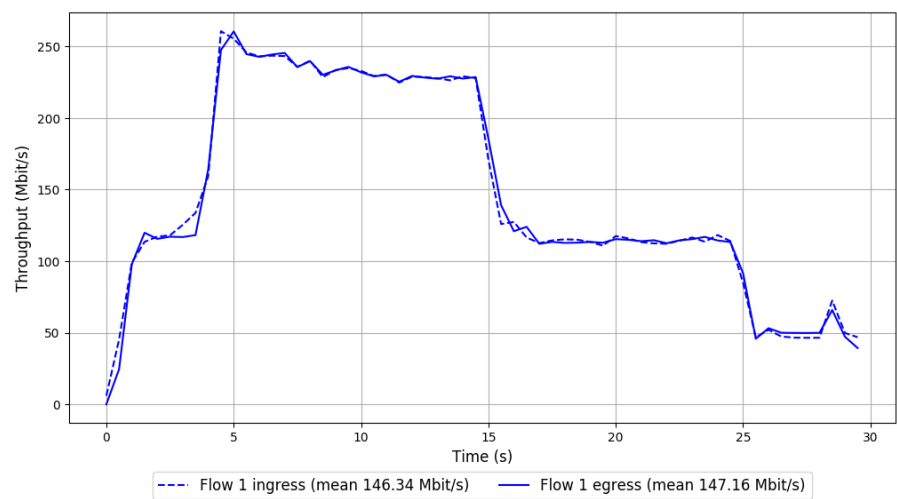
-- Flow 1:

Average throughput: 147.16 Mbit/s

95th percentile per-packet one-way delay: 106.500 ms

Loss rate: 0.25%

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

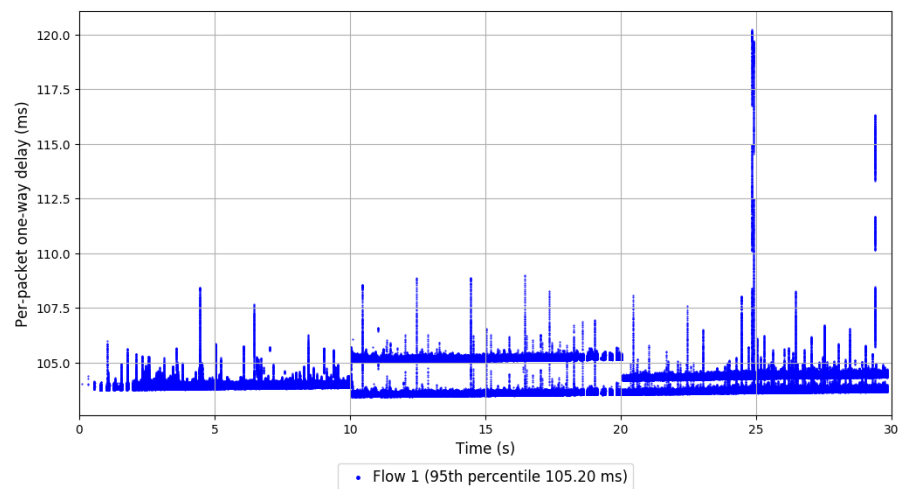
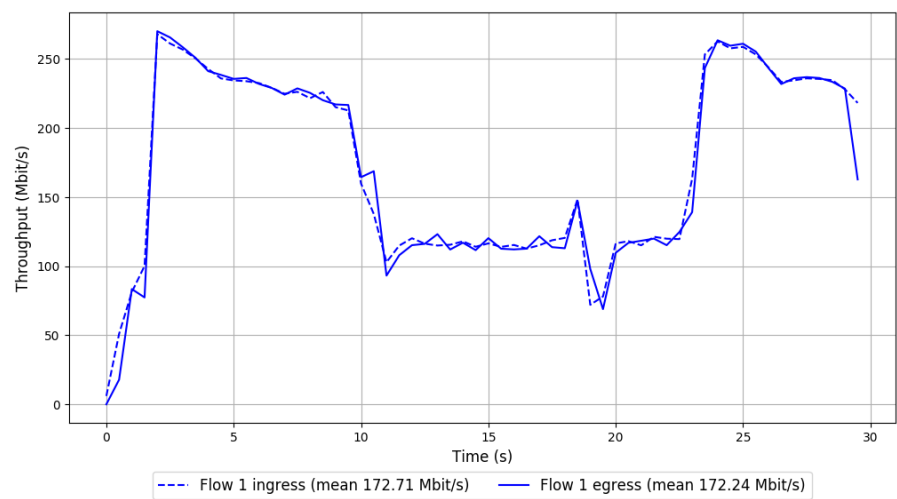


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 07:21:01
End at: 2018-04-24 07:21:31

# Below is generated by plot.py at 2018-04-24 10:08:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.24 Mbit/s
95th percentile per-packet one-way delay: 105.204 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 172.24 Mbit/s
95th percentile per-packet one-way delay: 105.204 ms
Loss rate: 1.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 05:14:37

End at: 2018-04-24 05:15:07

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 106.273 ms

Loss rate: 0.72%

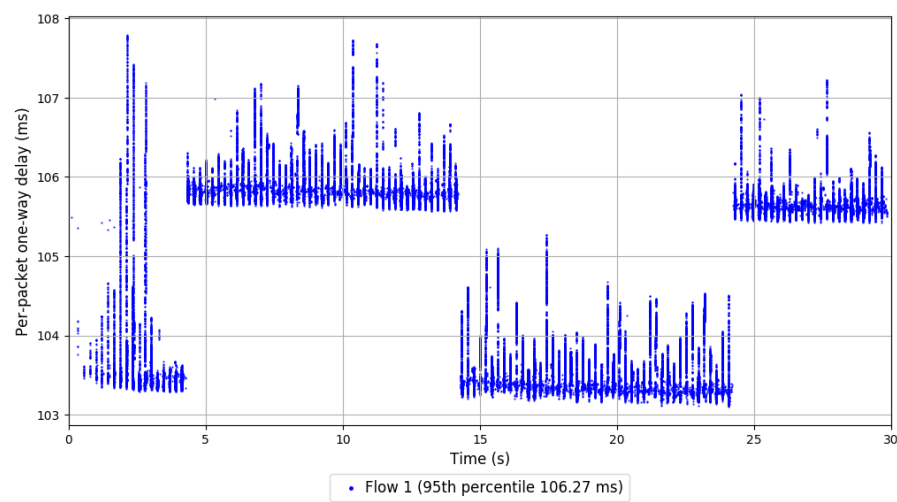
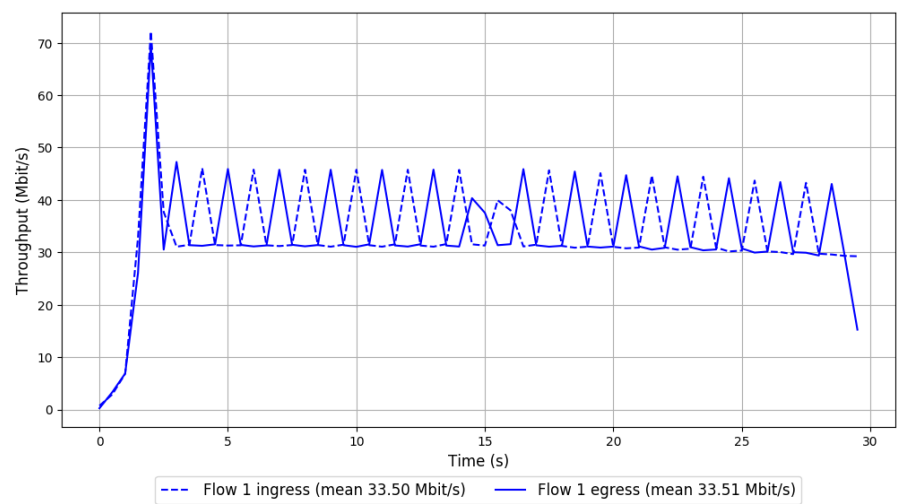
-- Flow 1:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 106.273 ms

Loss rate: 0.72%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 05:28:27

End at: 2018-04-24 05:28:57

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 100.897 ms

Loss rate: 0.74%

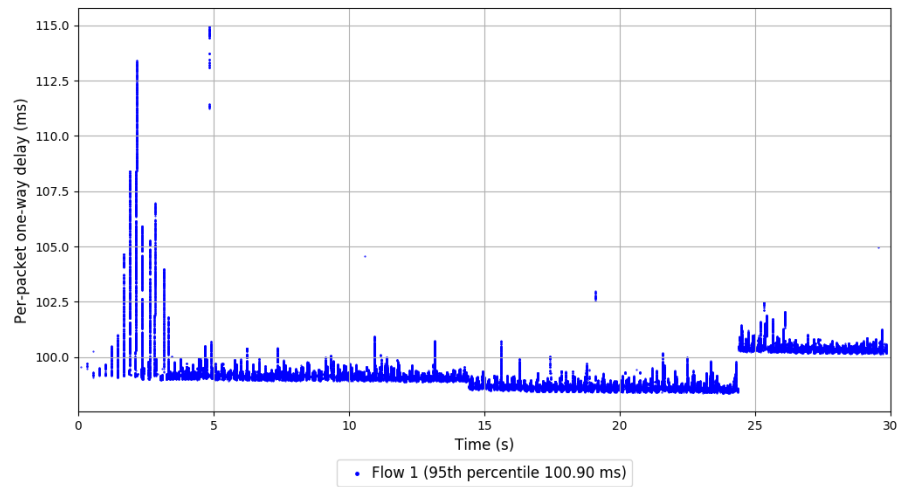
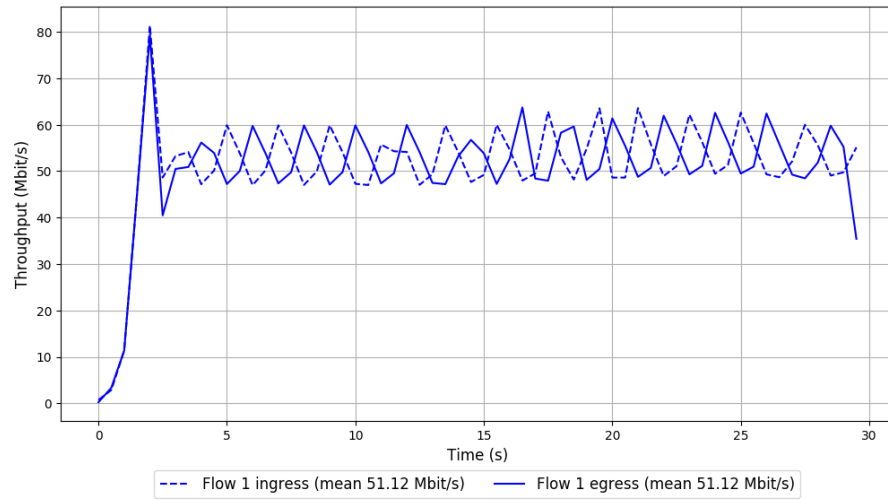
-- Flow 1:

Average throughput: 51.12 Mbit/s

95th percentile per-packet one-way delay: 100.897 ms

Loss rate: 0.74%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 05:42:34

End at: 2018-04-24 05:43:04

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.55 Mbit/s

95th percentile per-packet one-way delay: 97.778 ms

Loss rate: 0.81%

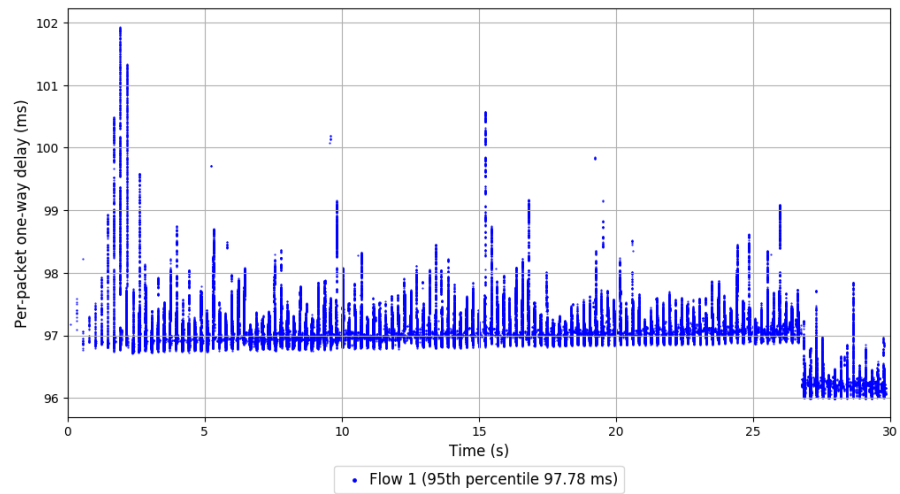
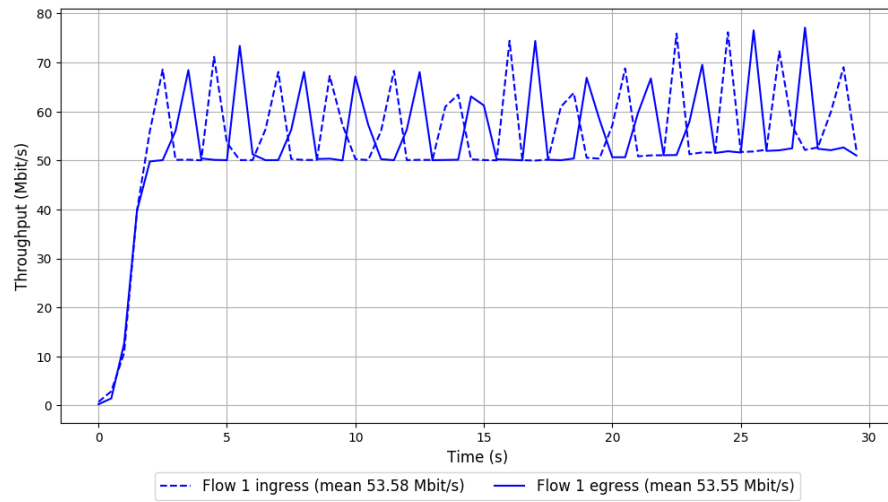
-- Flow 1:

Average throughput: 53.55 Mbit/s

95th percentile per-packet one-way delay: 97.778 ms

Loss rate: 0.81%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 05:56:11

End at: 2018-04-24 05:56:41

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.16 Mbit/s

95th percentile per-packet one-way delay: 94.329 ms

Loss rate: 0.77%

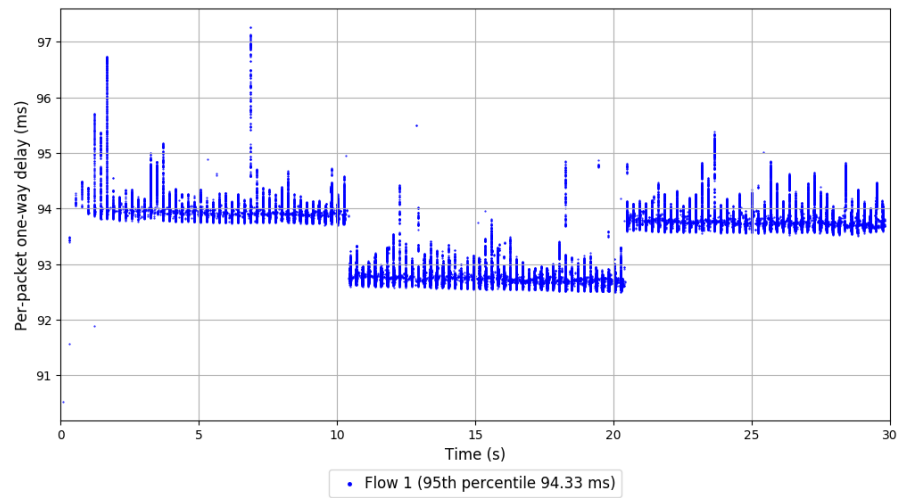
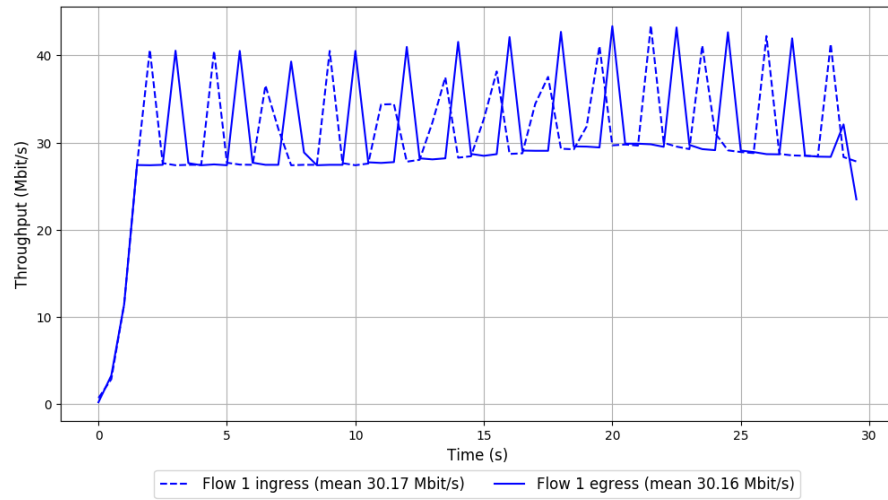
-- Flow 1:

Average throughput: 30.16 Mbit/s

95th percentile per-packet one-way delay: 94.329 ms

Loss rate: 0.77%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 06:09:48

End at: 2018-04-24 06:10:18

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 84.343 ms

Loss rate: 0.75%

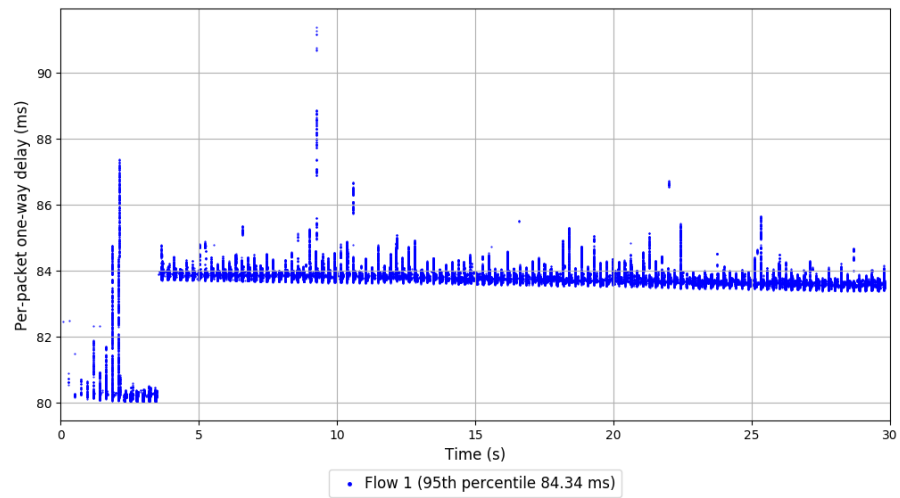
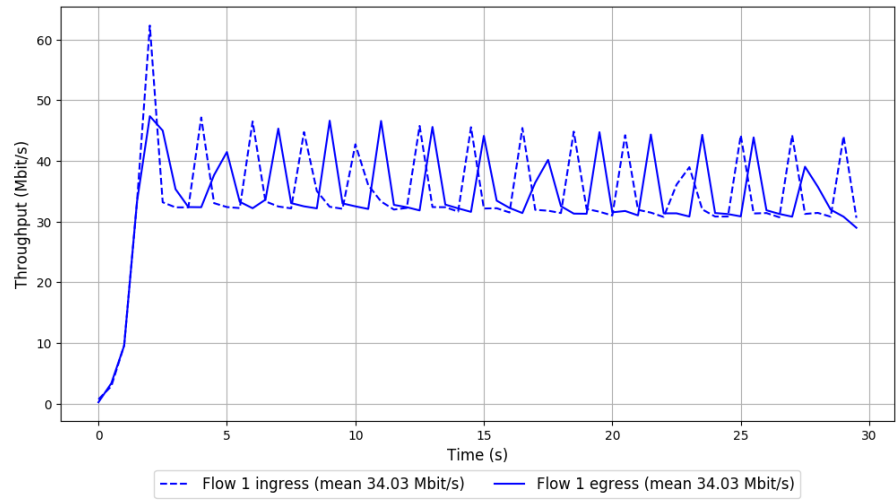
-- Flow 1:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 84.343 ms

Loss rate: 0.75%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 06:23:58

End at: 2018-04-24 06:24:28

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 100.233 ms

Loss rate: 0.69%

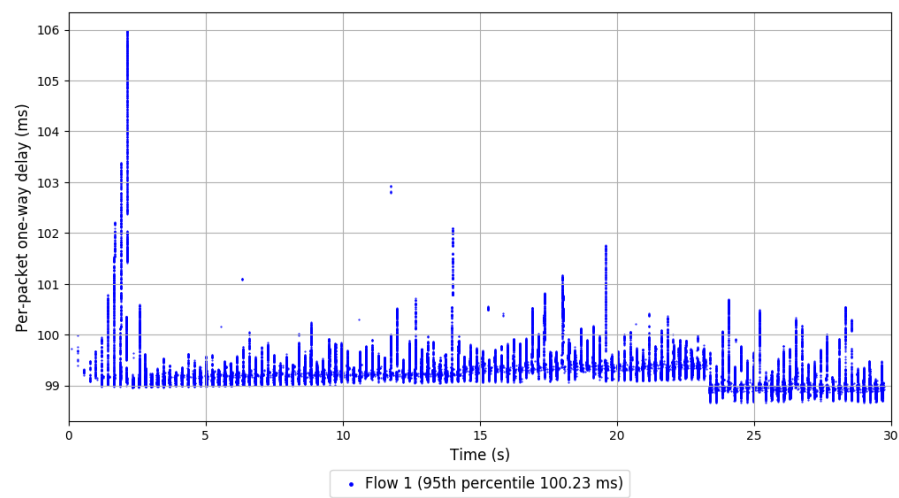
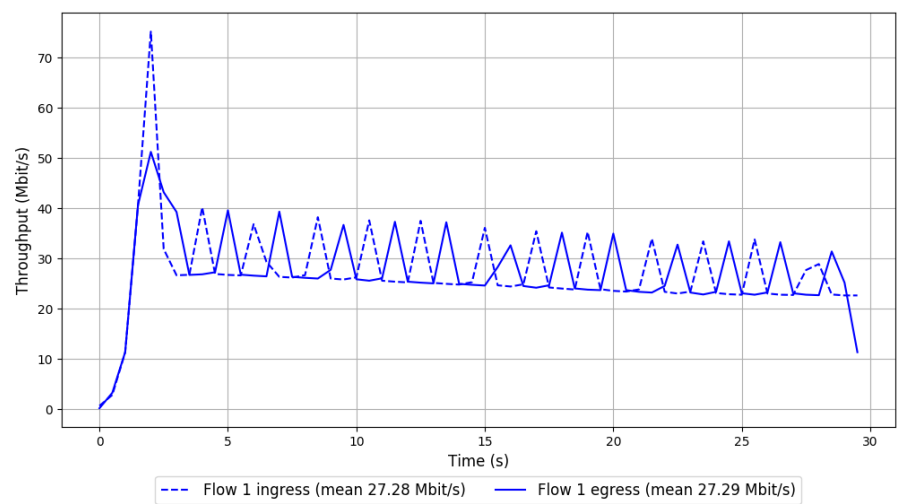
-- Flow 1:

Average throughput: 27.29 Mbit/s

95th percentile per-packet one-way delay: 100.233 ms

Loss rate: 0.69%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 06:37:49

End at: 2018-04-24 06:38:19

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 99.395 ms

Loss rate: 0.83%

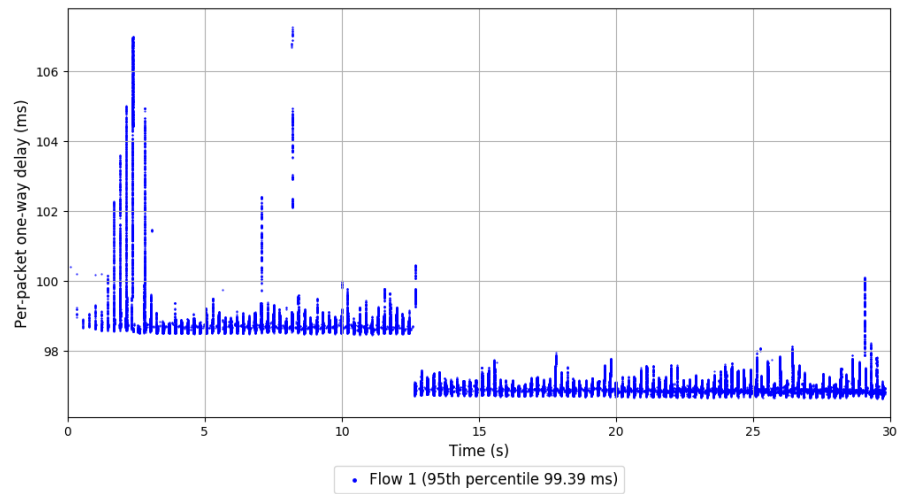
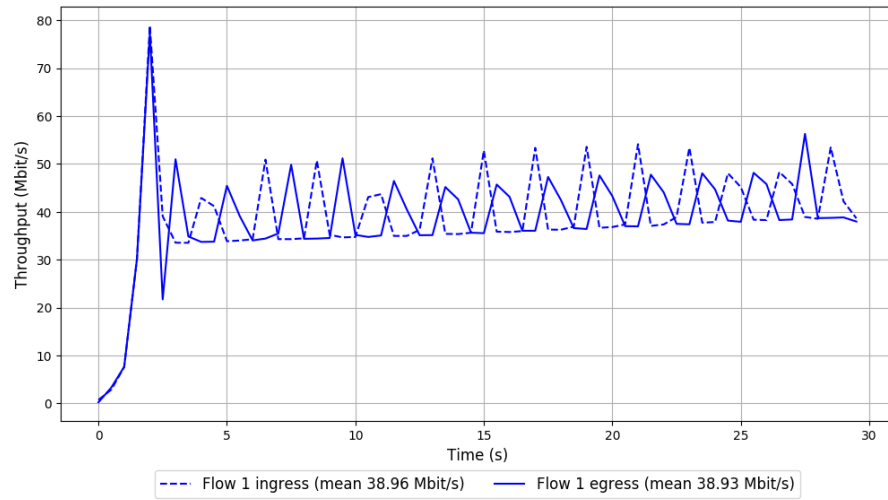
-- Flow 1:

Average throughput: 38.93 Mbit/s

95th percentile per-packet one-way delay: 99.395 ms

Loss rate: 0.83%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 06:51:39

End at: 2018-04-24 06:52:09

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.32 Mbit/s

95th percentile per-packet one-way delay: 103.332 ms

Loss rate: 0.75%

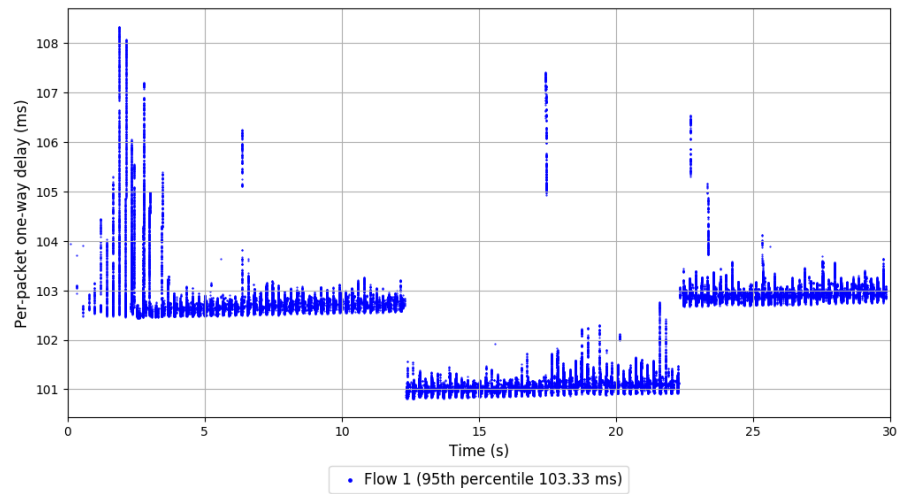
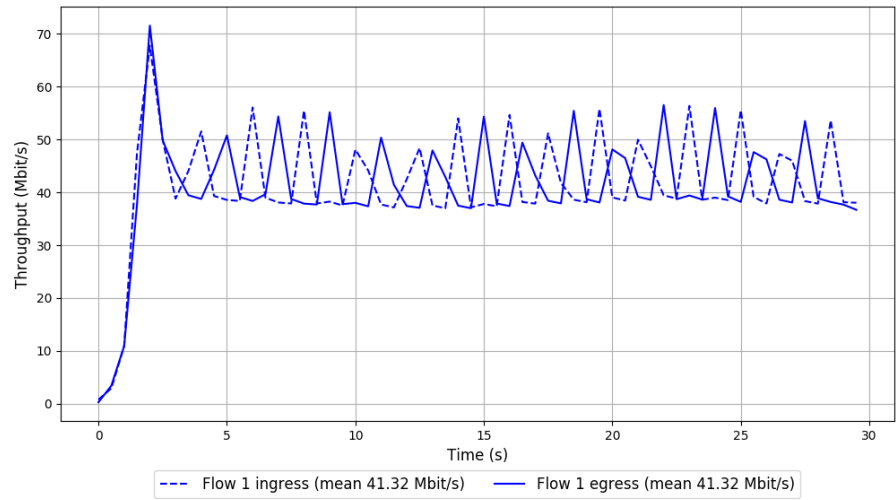
-- Flow 1:

Average throughput: 41.32 Mbit/s

95th percentile per-packet one-way delay: 103.332 ms

Loss rate: 0.75%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 07:04:59

End at: 2018-04-24 07:05:29

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 106.492 ms

Loss rate: 0.80%

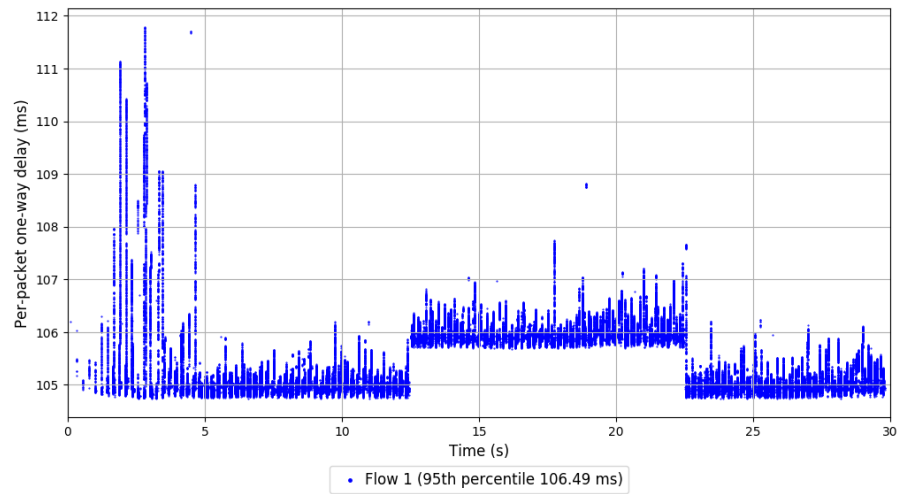
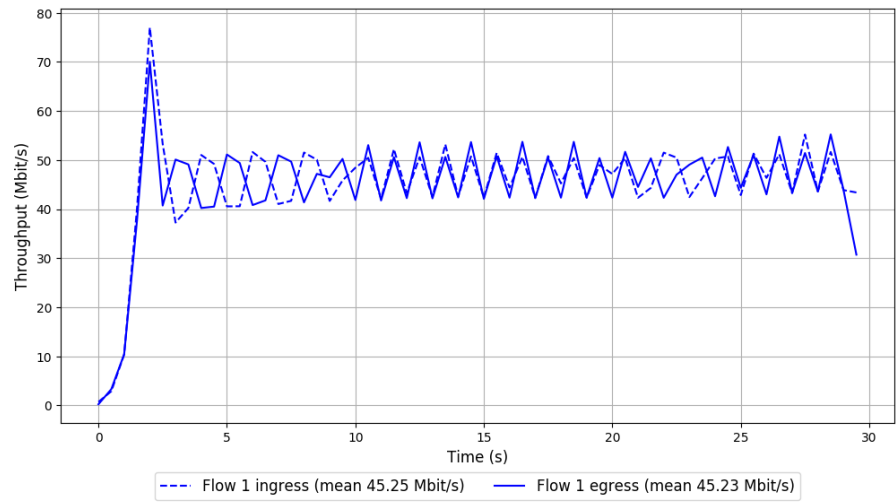
-- Flow 1:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 106.492 ms

Loss rate: 0.80%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 07:19:05

End at: 2018-04-24 07:19:35

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.76 Mbit/s

95th percentile per-packet one-way delay: 104.587 ms

Loss rate: 0.79%

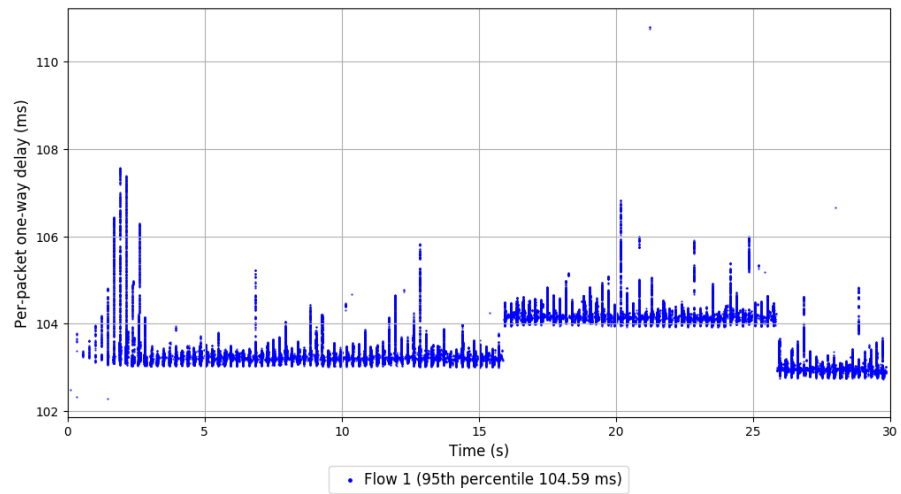
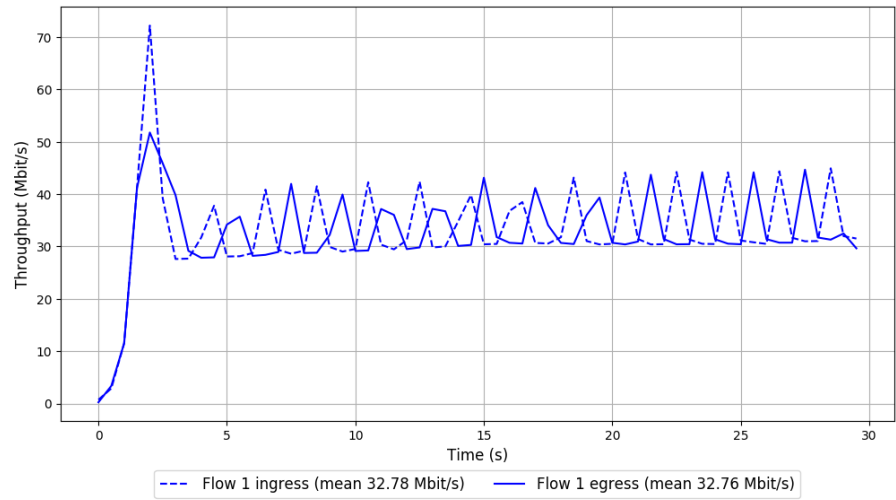
-- Flow 1:

Average throughput: 32.76 Mbit/s

95th percentile per-packet one-way delay: 104.587 ms

Loss rate: 0.79%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-24 05:10:40

End at: 2018-04-24 05:11:10

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.53 Mbit/s

95th percentile per-packet one-way delay: 155.405 ms

Loss rate: 0.48%

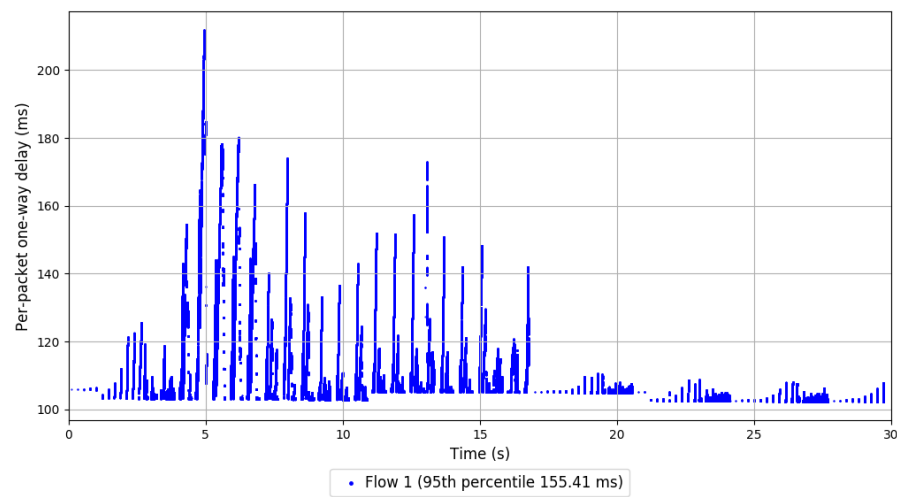
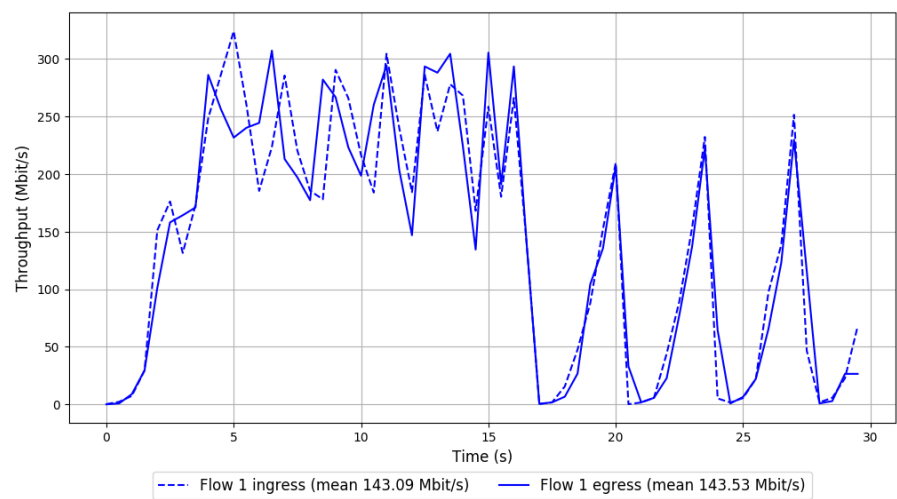
-- Flow 1:

Average throughput: 143.53 Mbit/s

95th percentile per-packet one-way delay: 155.405 ms

Loss rate: 0.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-24 05:24:29

End at: 2018-04-24 05:24:59

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.57 Mbit/s

95th percentile per-packet one-way delay: 114.998 ms

Loss rate: 1.53%

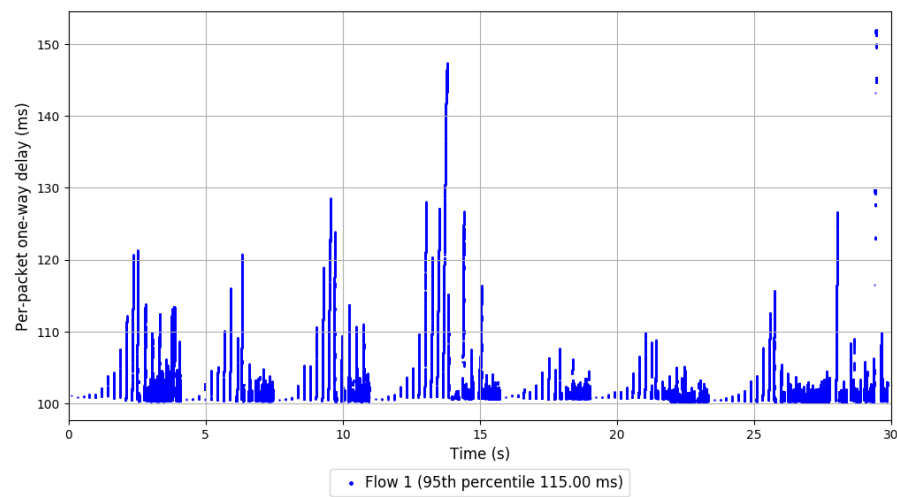
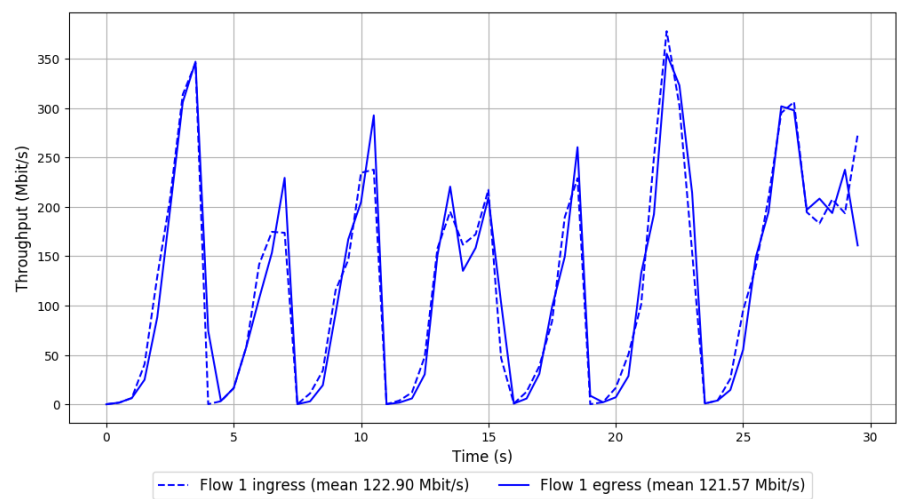
-- Flow 1:

Average throughput: 121.57 Mbit/s

95th percentile per-packet one-way delay: 114.998 ms

Loss rate: 1.53%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-24 05:38:29

End at: 2018-04-24 05:38:59

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.09 Mbit/s

95th percentile per-packet one-way delay: 113.590 ms

Loss rate: 0.75%

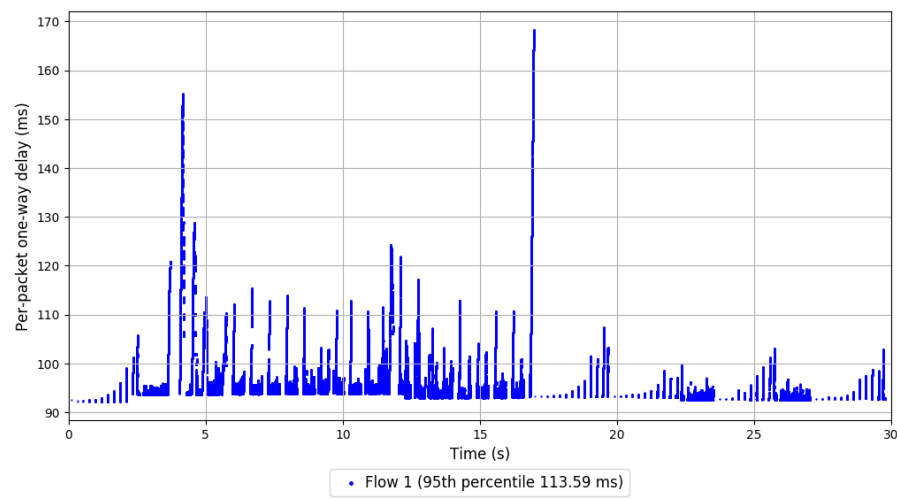
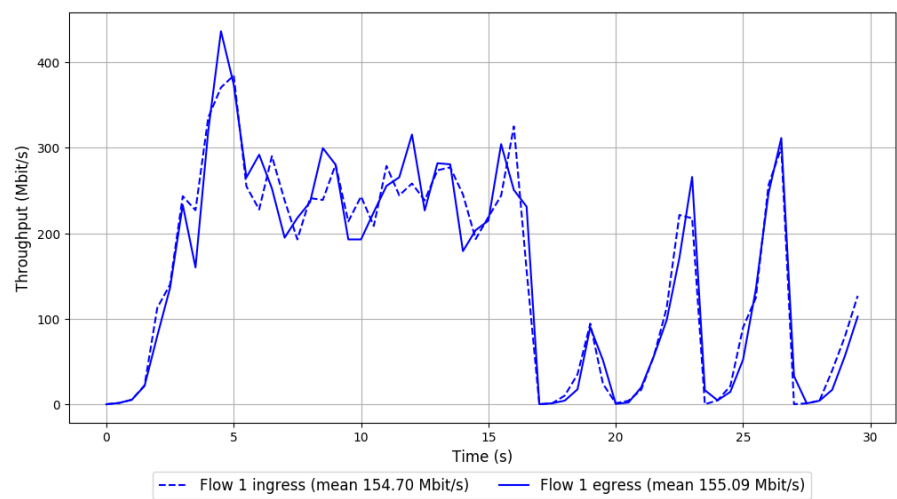
-- Flow 1:

Average throughput: 155.09 Mbit/s

95th percentile per-packet one-way delay: 113.590 ms

Loss rate: 0.75%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-24 05:52:13

End at: 2018-04-24 05:52:43

Below is generated by plot.py at 2018-04-24 10:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.60 Mbit/s

95th percentile per-packet one-way delay: 113.829 ms

Loss rate: 0.46%

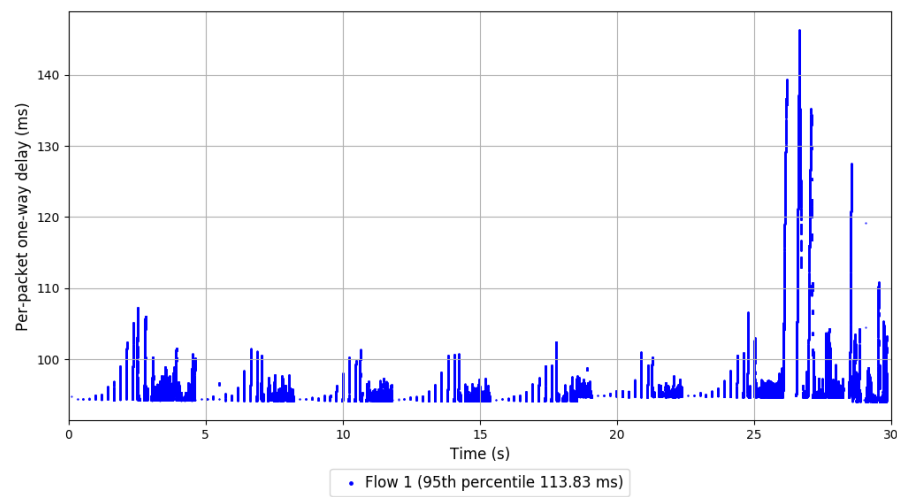
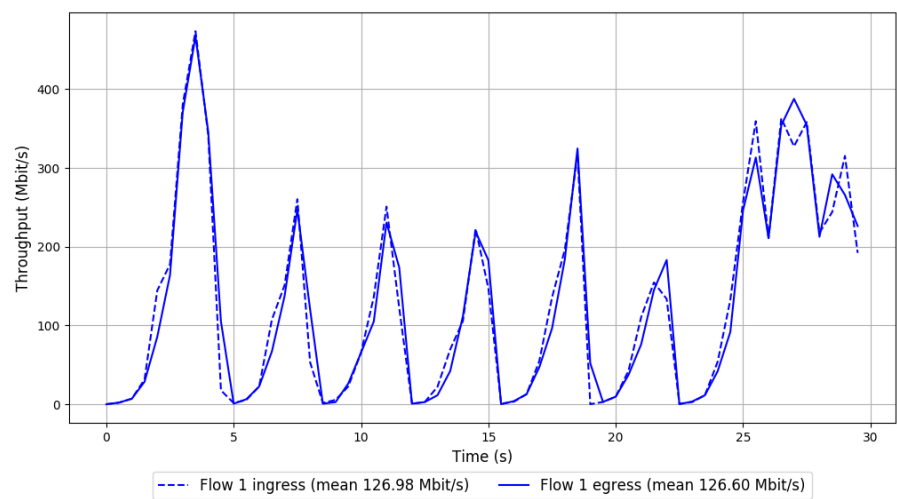
-- Flow 1:

Average throughput: 126.60 Mbit/s

95th percentile per-packet one-way delay: 113.829 ms

Loss rate: 0.46%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 06:05:49

End at: 2018-04-24 06:06:19

Below is generated by plot.py at 2018-04-24 10:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.14 Mbit/s

95th percentile per-packet one-way delay: 145.790 ms

Loss rate: 2.02%

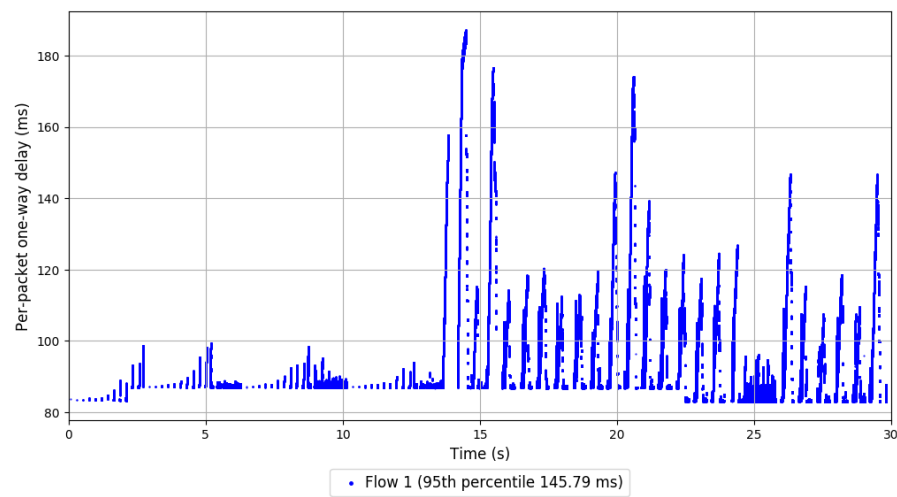
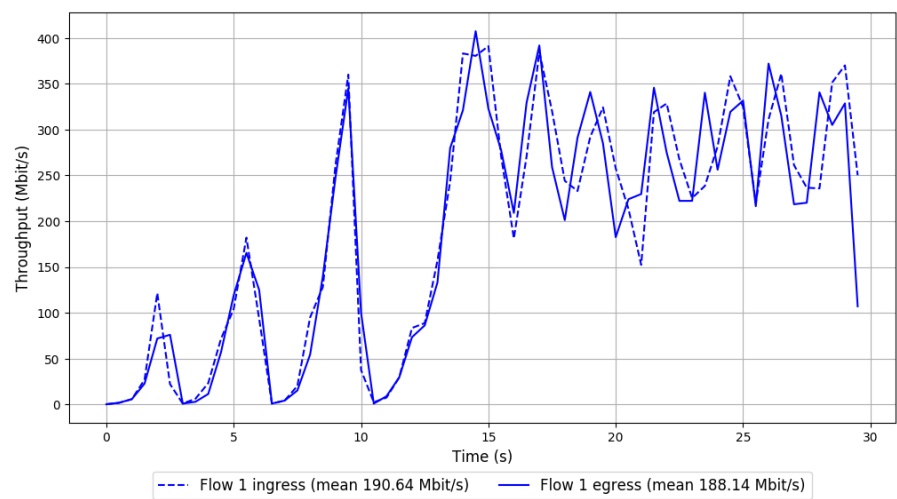
-- Flow 1:

Average throughput: 188.14 Mbit/s

95th percentile per-packet one-way delay: 145.790 ms

Loss rate: 2.02%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 06:19:48

End at: 2018-04-24 06:20:18

Below is generated by plot.py at 2018-04-24 10:10:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.35 Mbit/s

95th percentile per-packet one-way delay: 217.553 ms

Loss rate: 0.31%

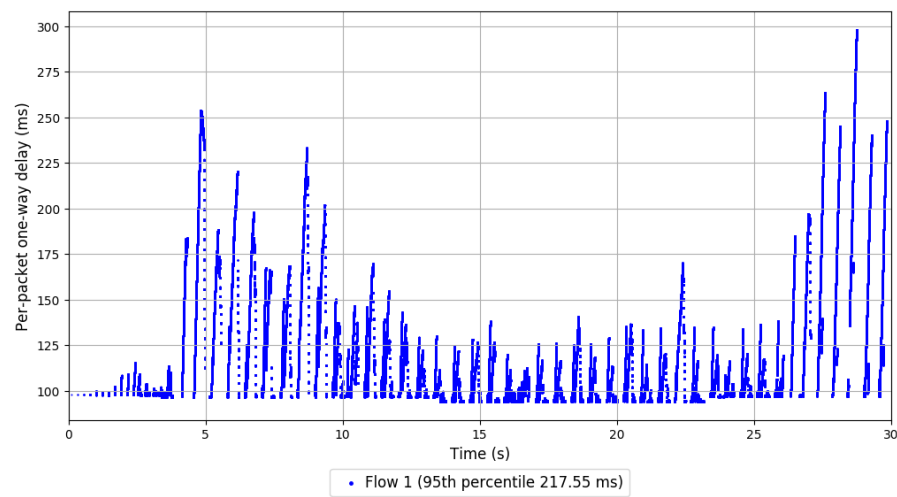
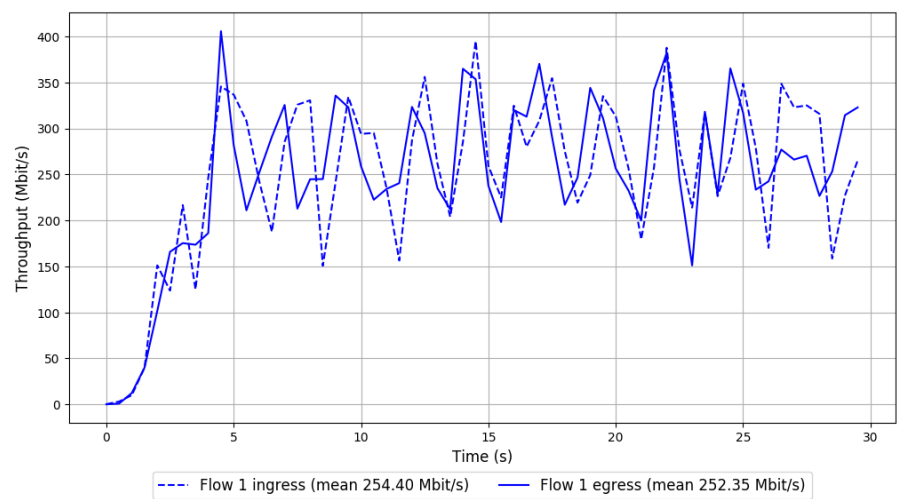
-- Flow 1:

Average throughput: 252.35 Mbit/s

95th percentile per-packet one-way delay: 217.553 ms

Loss rate: 0.31%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-24 06:33:43

End at: 2018-04-24 06:34:13

Below is generated by plot.py at 2018-04-24 10:10:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.85 Mbit/s

95th percentile per-packet one-way delay: 122.958 ms

Loss rate: 0.00%

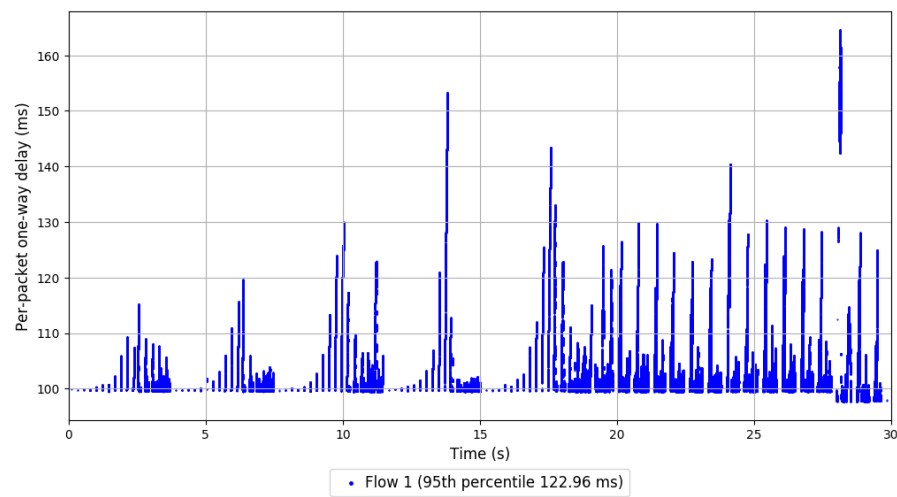
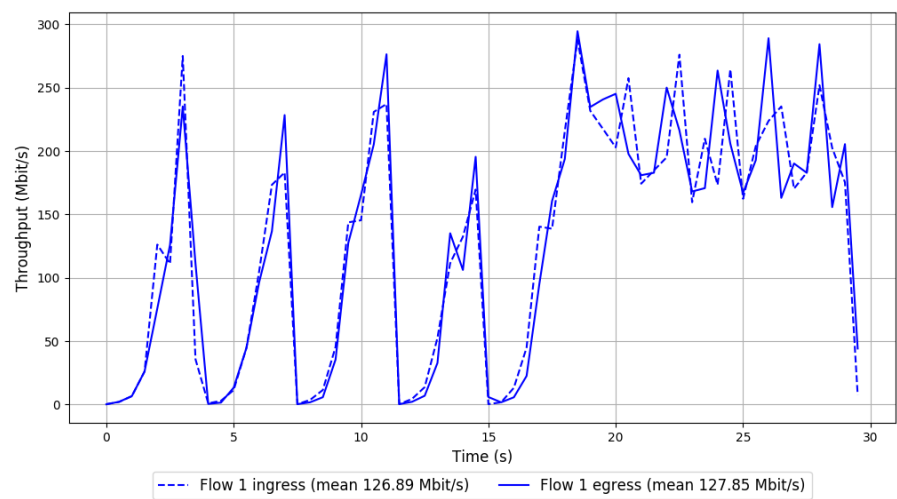
-- Flow 1:

Average throughput: 127.85 Mbit/s

95th percentile per-packet one-way delay: 122.958 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-24 06:47:36

End at: 2018-04-24 06:48:06

Below is generated by plot.py at 2018-04-24 10:10:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 104.001 ms

Loss rate: 1.98%

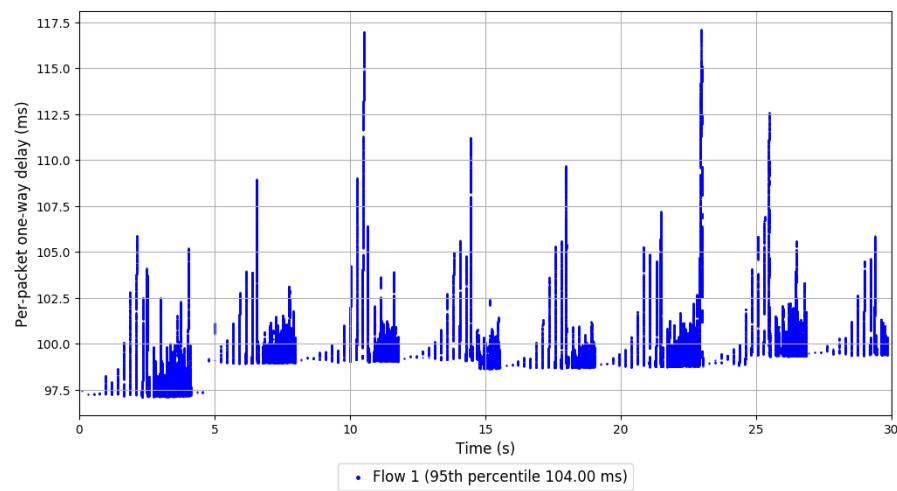
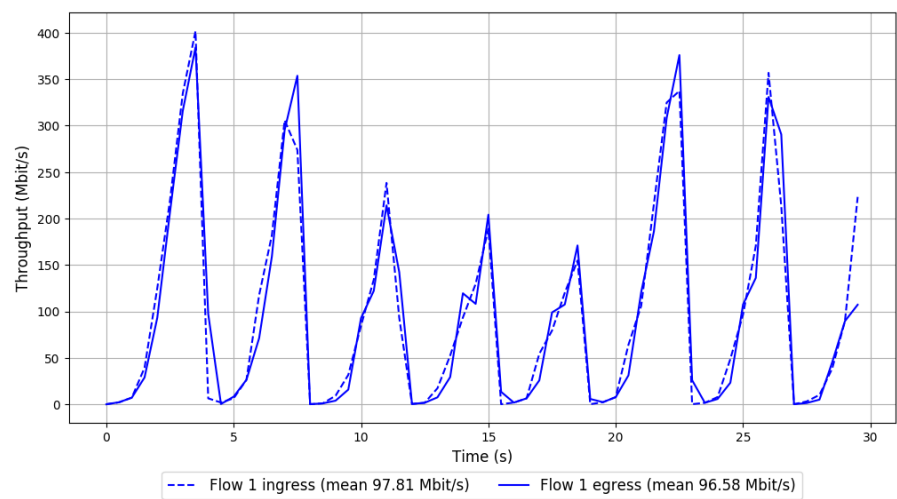
-- Flow 1:

Average throughput: 96.58 Mbit/s

95th percentile per-packet one-way delay: 104.001 ms

Loss rate: 1.98%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-24 07:00:58

End at: 2018-04-24 07:01:28

Below is generated by plot.py at 2018-04-24 10:10:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.90 Mbit/s

95th percentile per-packet one-way delay: 130.946 ms

Loss rate: 1.79%

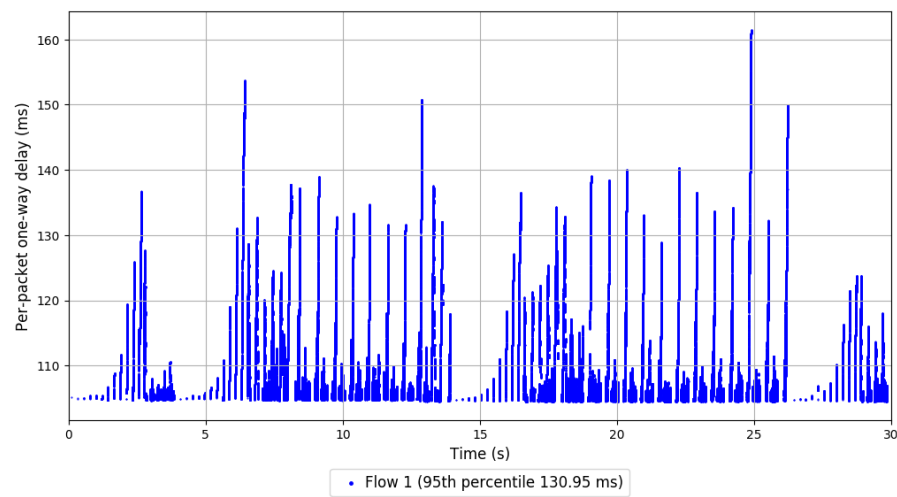
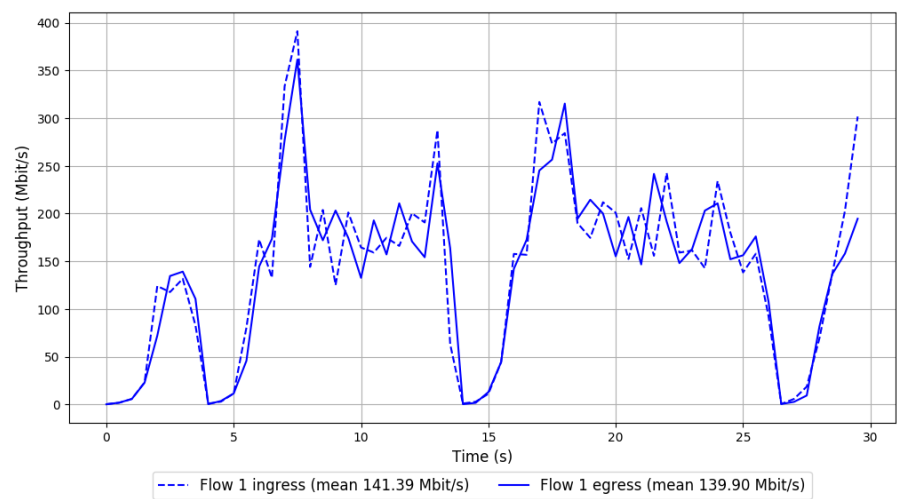
-- Flow 1:

Average throughput: 139.90 Mbit/s

95th percentile per-packet one-way delay: 130.946 ms

Loss rate: 1.79%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-24 07:14:55

End at: 2018-04-24 07:15:25

Below is generated by plot.py at 2018-04-24 10:11:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.18 Mbit/s

95th percentile per-packet one-way delay: 186.293 ms

Loss rate: 1.27%

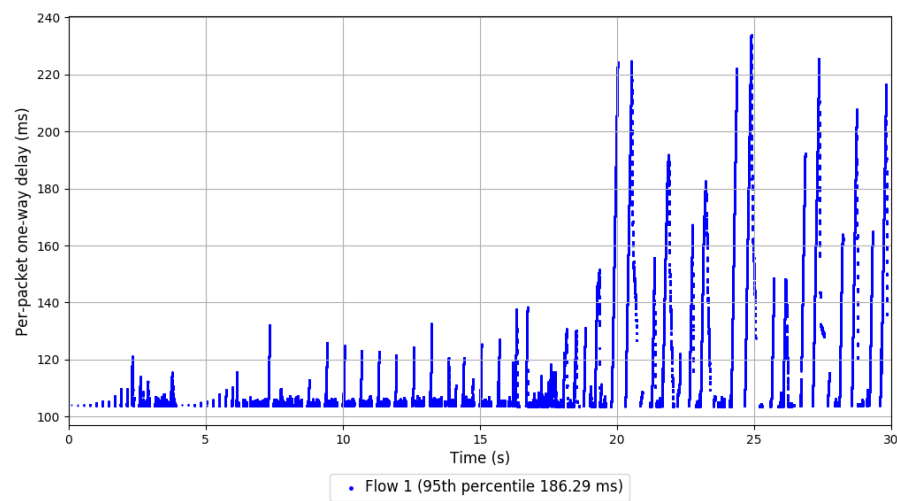
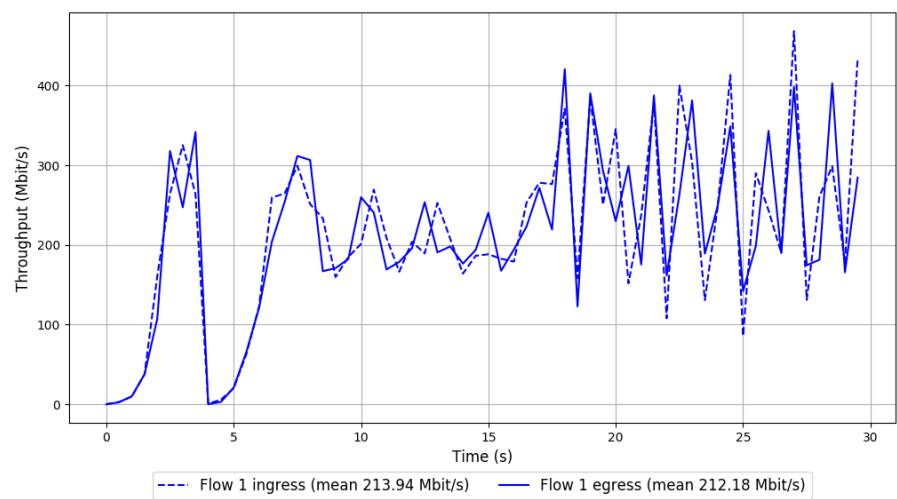
-- Flow 1:

Average throughput: 212.18 Mbit/s

95th percentile per-packet one-way delay: 186.293 ms

Loss rate: 1.27%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-24 05:09:52

End at: 2018-04-24 05:10:22

Below is generated by plot.py at 2018-04-24 10:11:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 106.336 ms

Loss rate: 0.53%

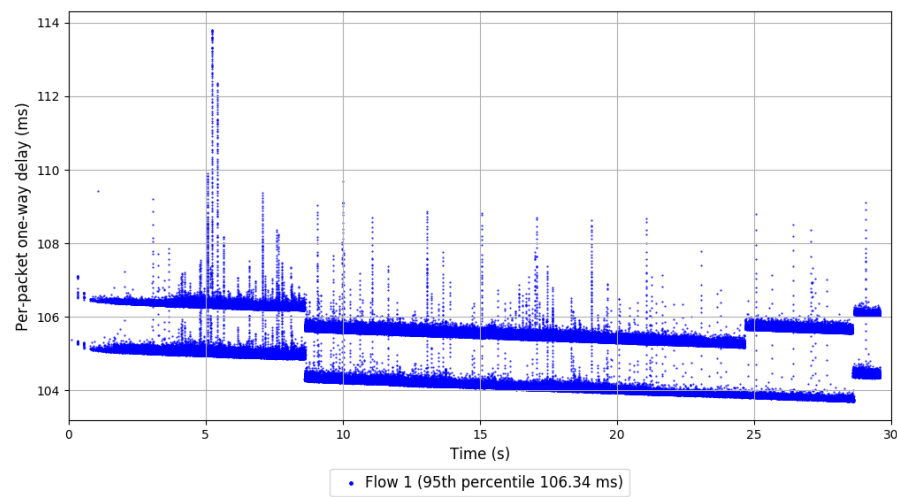
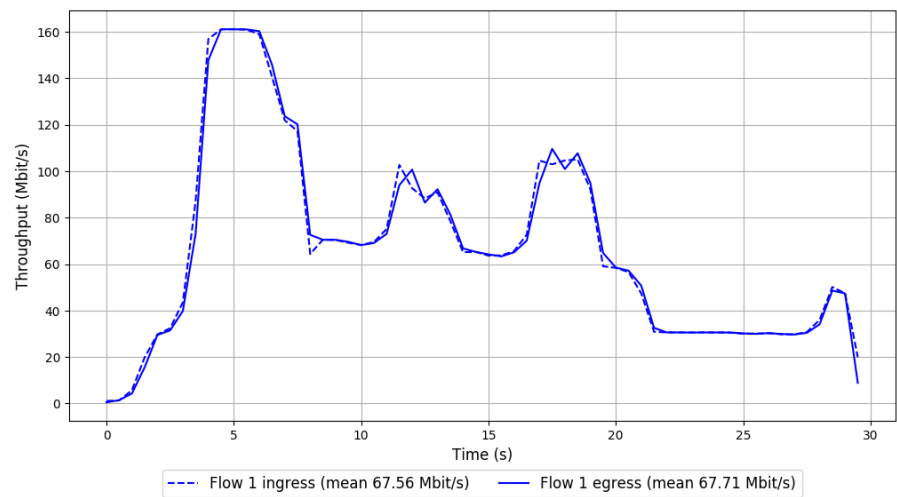
-- Flow 1:

Average throughput: 67.71 Mbit/s

95th percentile per-packet one-way delay: 106.336 ms

Loss rate: 0.53%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-24 05:23:42

End at: 2018-04-24 05:24:12

Below is generated by plot.py at 2018-04-24 10:11:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 102.655 ms

Loss rate: 0.79%

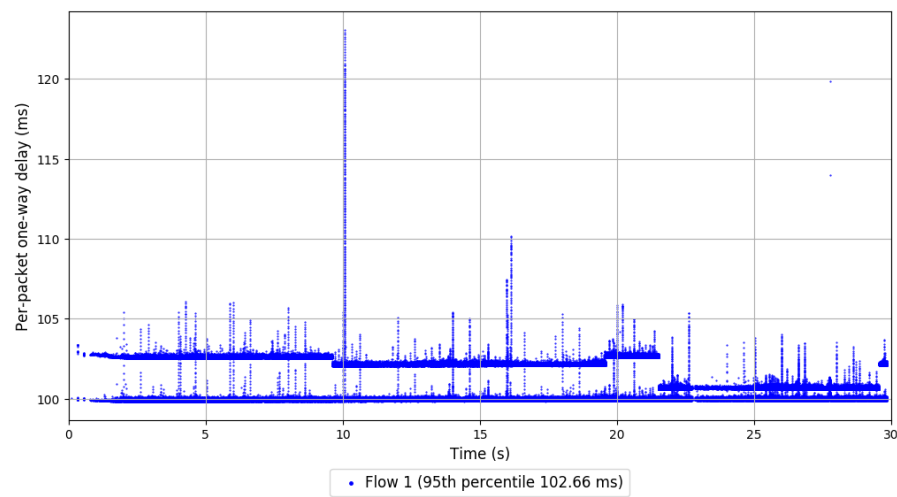
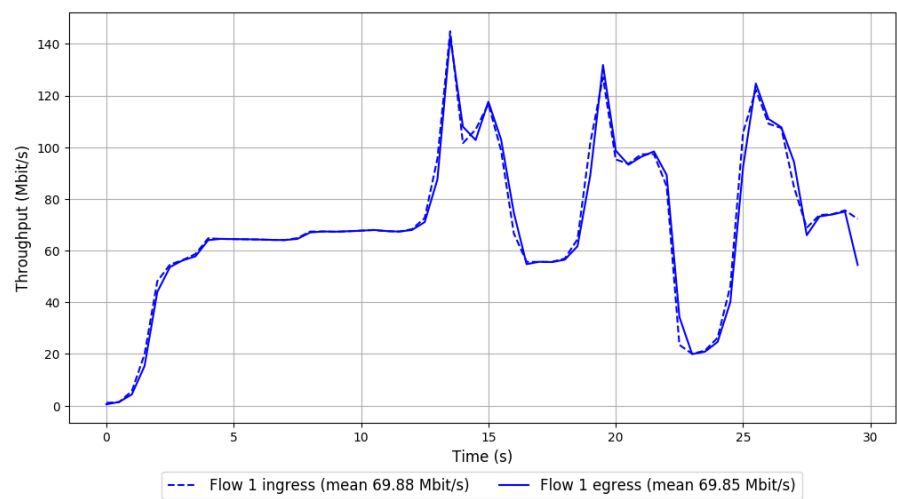
-- Flow 1:

Average throughput: 69.85 Mbit/s

95th percentile per-packet one-way delay: 102.655 ms

Loss rate: 0.79%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-24 05:37:40

End at: 2018-04-24 05:38:10

Below is generated by plot.py at 2018-04-24 10:11:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 93.706 ms

Loss rate: 0.33%

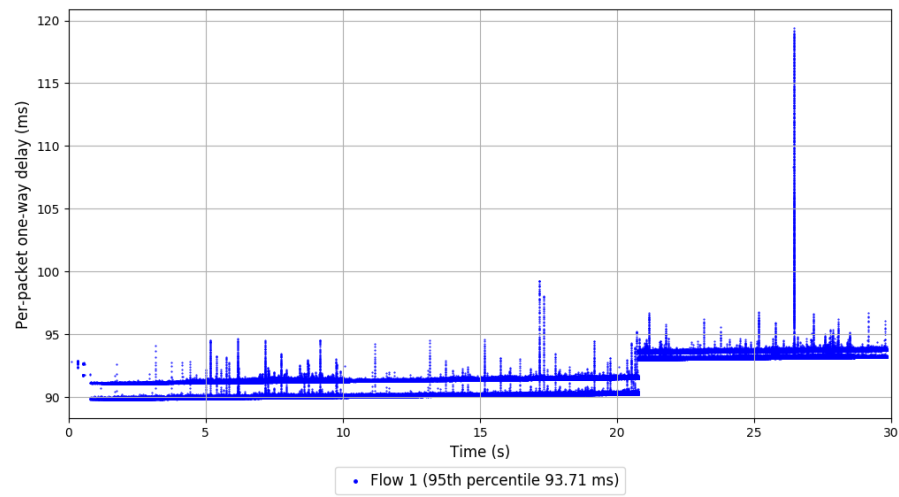
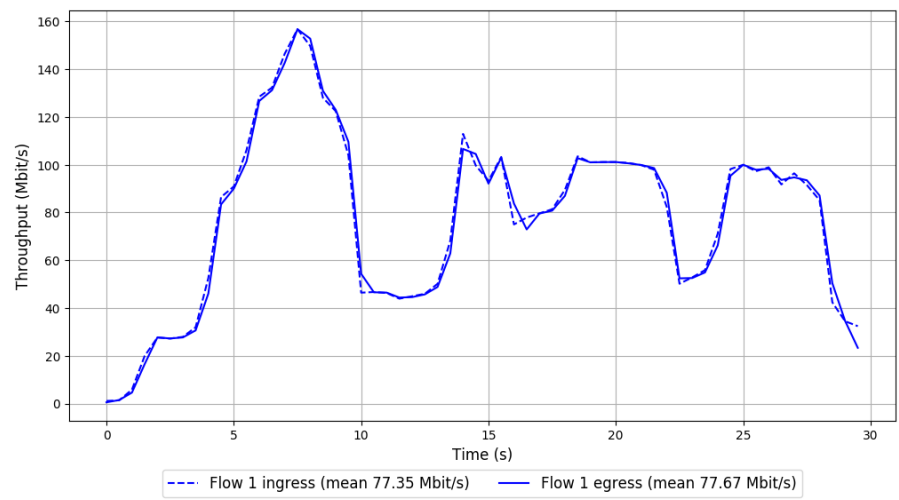
-- Flow 1:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 93.706 ms

Loss rate: 0.33%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-24 05:51:28

End at: 2018-04-24 05:51:58

Below is generated by plot.py at 2018-04-24 10:11:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 96.204 ms

Loss rate: 0.29%

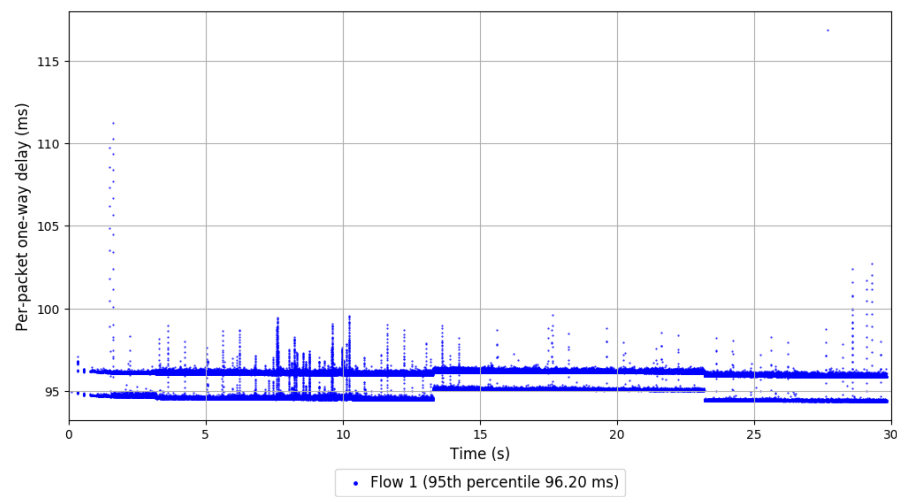
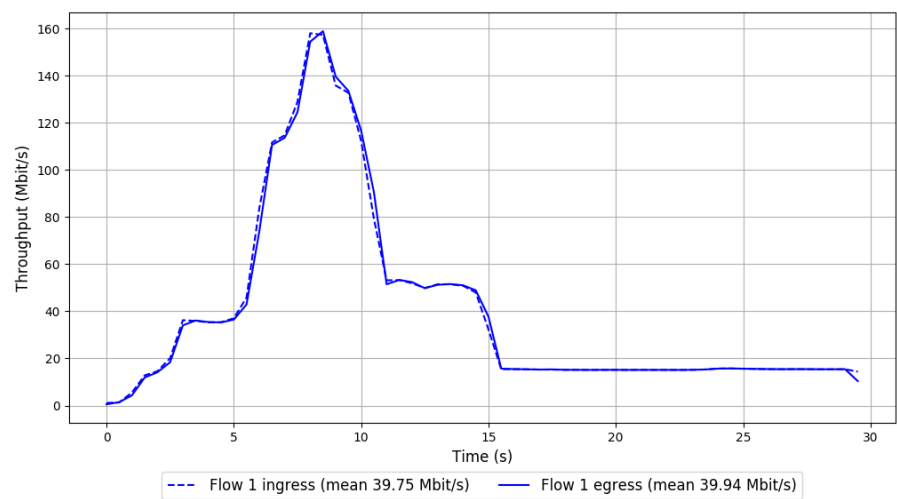
-- Flow 1:

Average throughput: 39.94 Mbit/s

95th percentile per-packet one-way delay: 96.204 ms

Loss rate: 0.29%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-24 06:05:02

End at: 2018-04-24 06:05:32

Below is generated by plot.py at 2018-04-24 10:11:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 87.301 ms

Loss rate: 0.24%

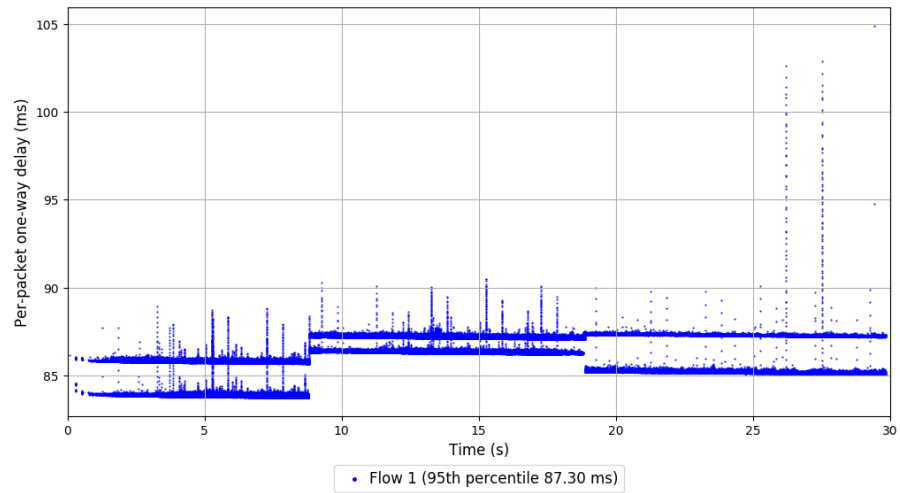
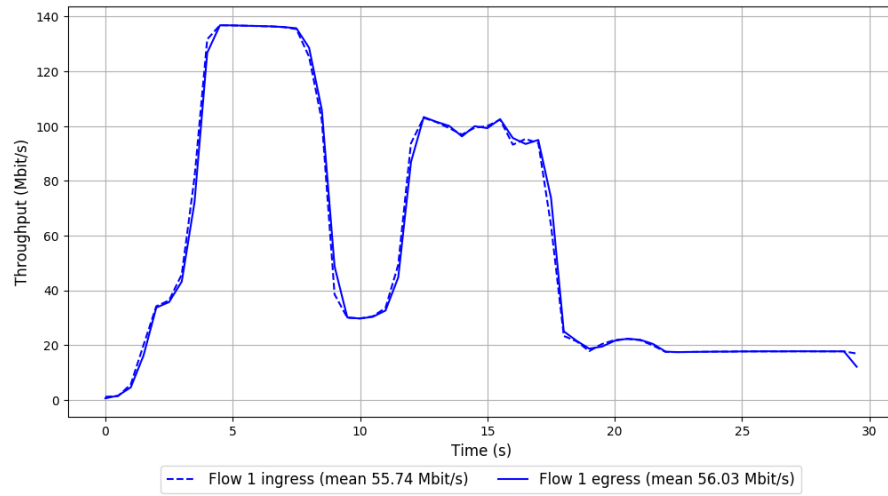
-- Flow 1:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 87.301 ms

Loss rate: 0.24%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-24 06:18:58

End at: 2018-04-24 06:19:28

Below is generated by plot.py at 2018-04-24 10:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.57 Mbit/s

95th percentile per-packet one-way delay: 97.611 ms

Loss rate: 0.71%

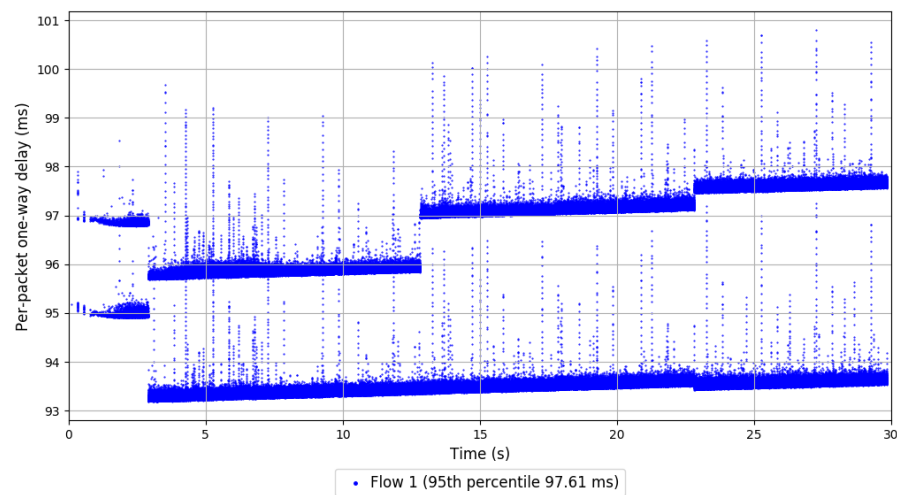
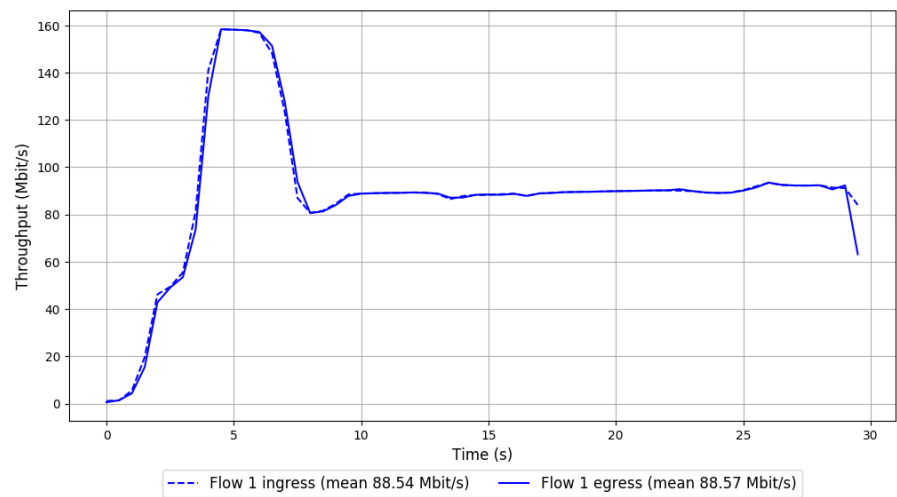
-- Flow 1:

Average throughput: 88.57 Mbit/s

95th percentile per-packet one-way delay: 97.611 ms

Loss rate: 0.71%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-24 06:32:54

End at: 2018-04-24 06:33:24

Below is generated by plot.py at 2018-04-24 10:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 100.613 ms

Loss rate: 0.15%

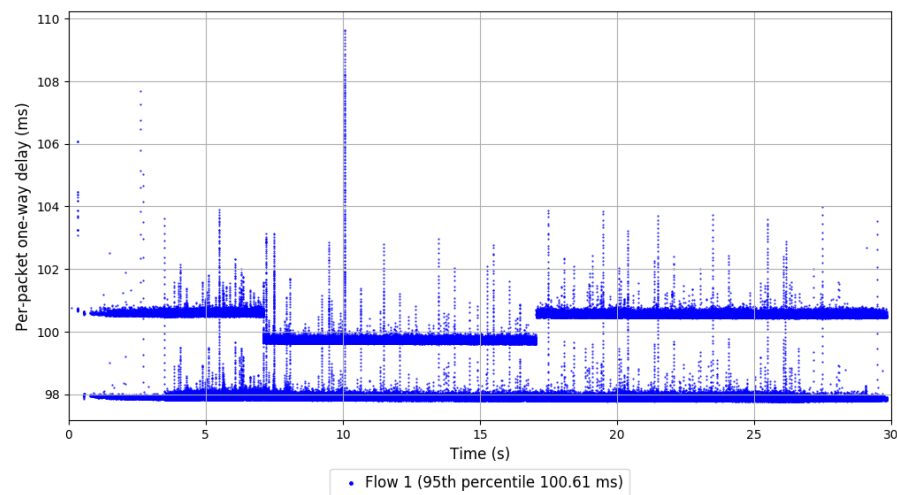
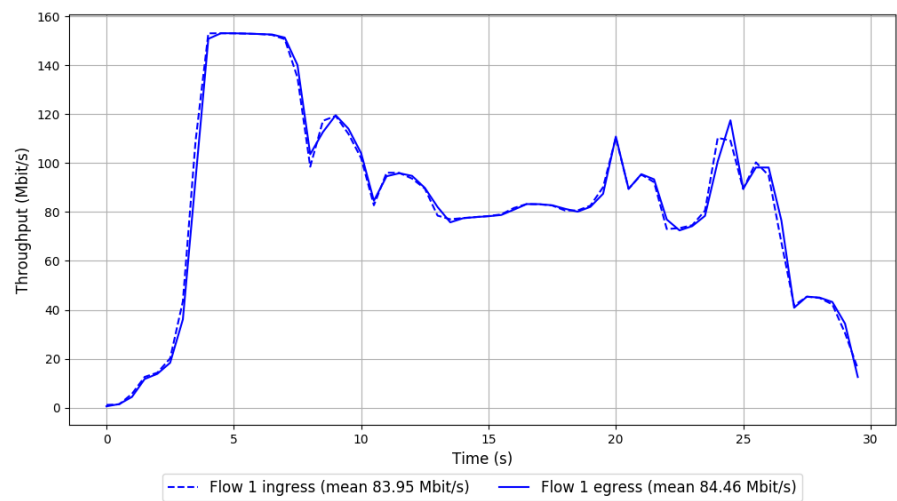
-- Flow 1:

Average throughput: 84.46 Mbit/s

95th percentile per-packet one-way delay: 100.613 ms

Loss rate: 0.15%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-24 06:46:50

End at: 2018-04-24 06:47:20

Below is generated by plot.py at 2018-04-24 10:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.63 Mbit/s

95th percentile per-packet one-way delay: 98.290 ms

Loss rate: 0.24%

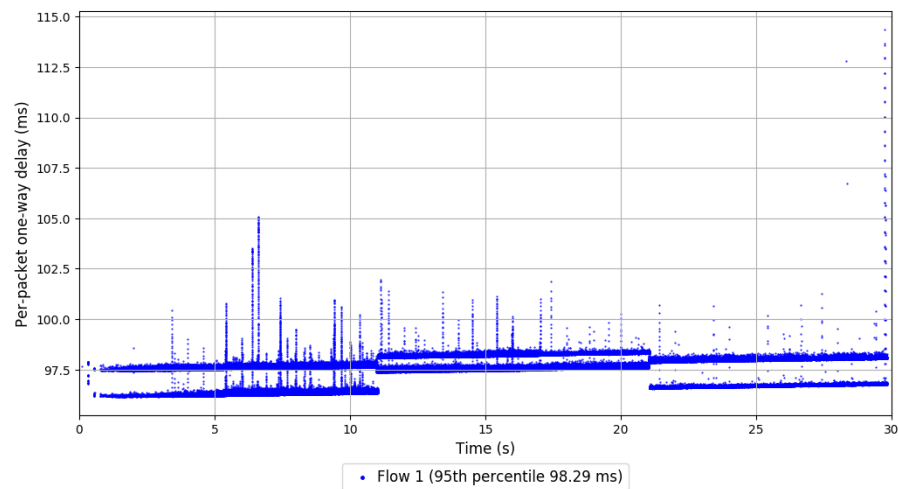
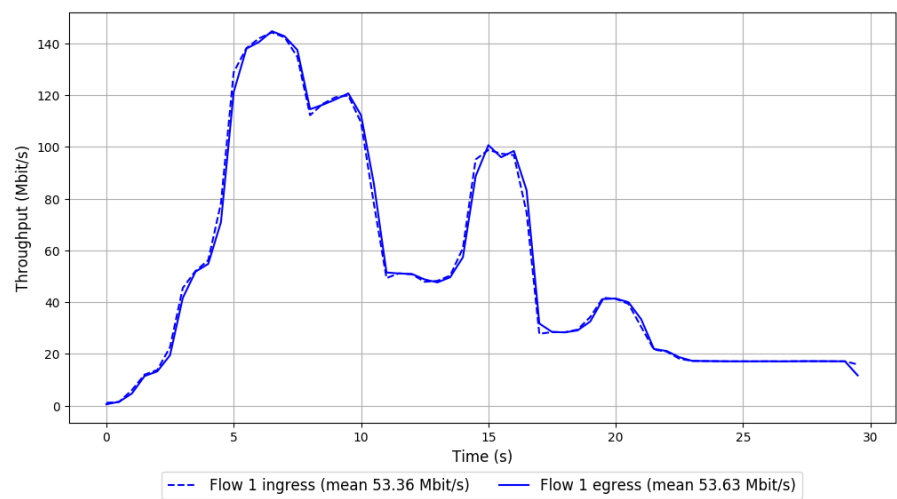
-- Flow 1:

Average throughput: 53.63 Mbit/s

95th percentile per-packet one-way delay: 98.290 ms

Loss rate: 0.24%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-24 07:00:10

End at: 2018-04-24 07:00:40

Below is generated by plot.py at 2018-04-24 10:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 106.826 ms

Loss rate: 0.80%

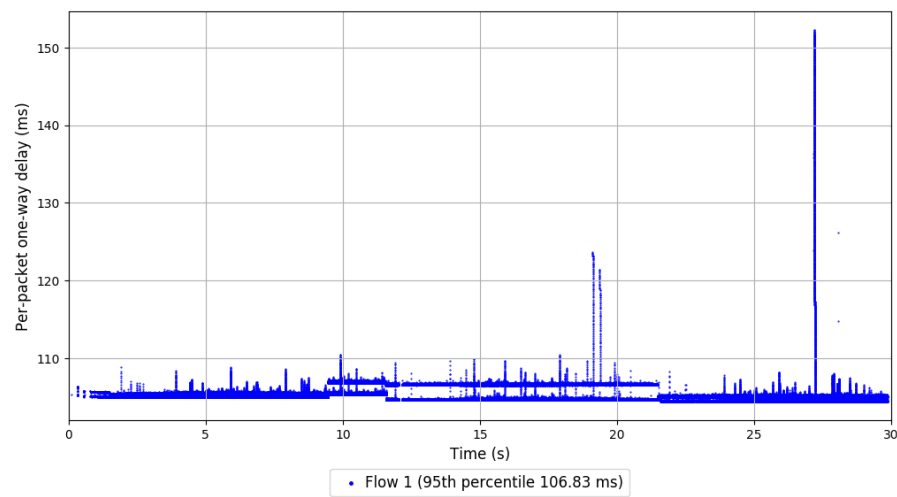
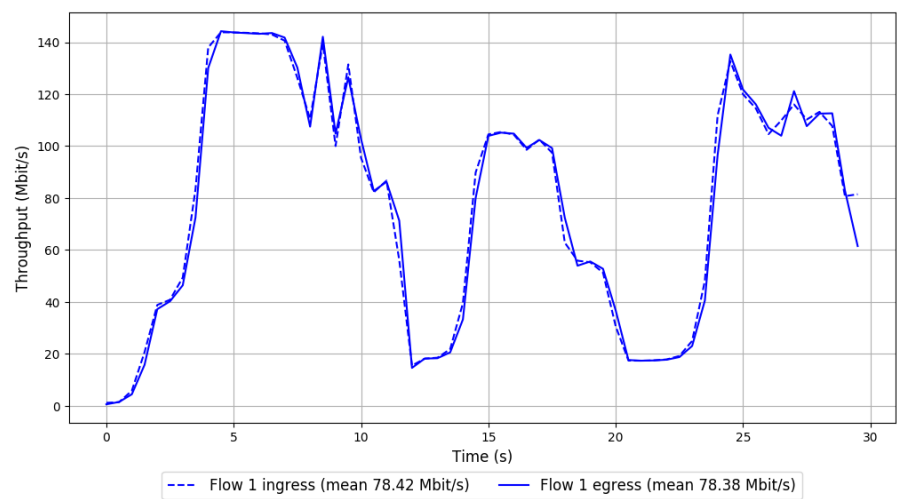
-- Flow 1:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 106.826 ms

Loss rate: 0.80%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-24 07:14:06

End at: 2018-04-24 07:14:36

Below is generated by plot.py at 2018-04-24 10:13:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 105.463 ms

Loss rate: 0.89%

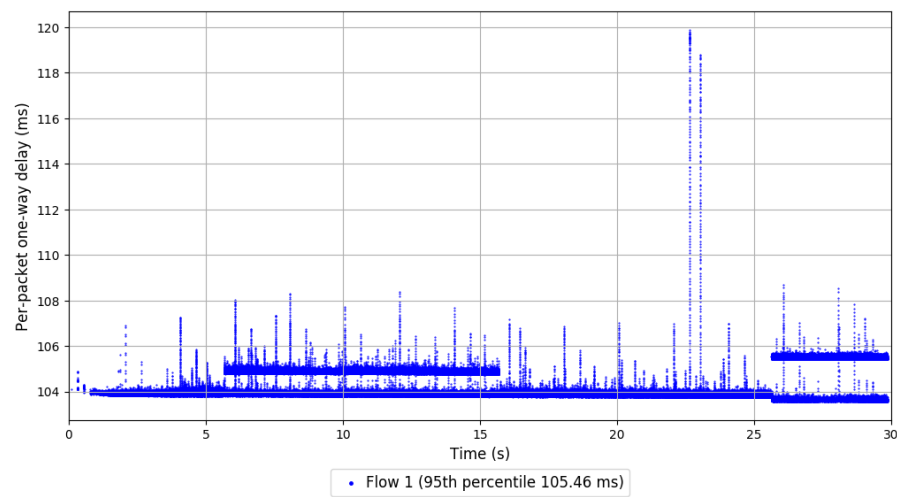
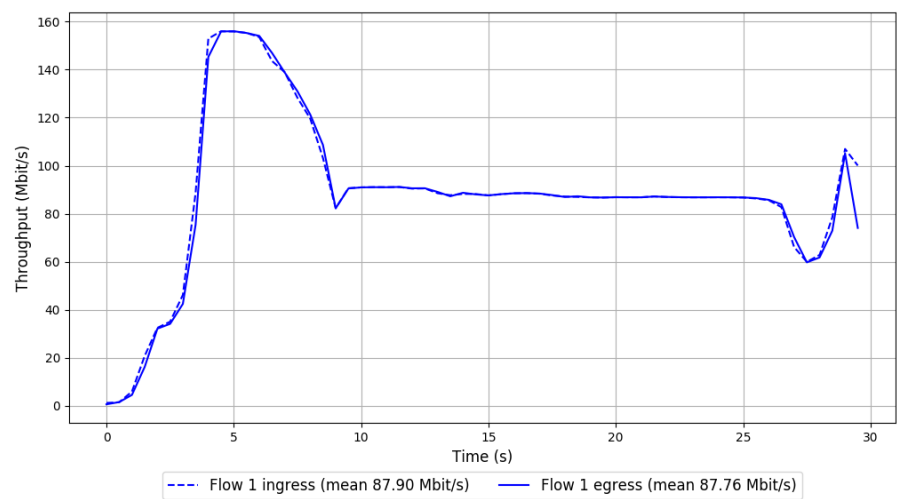
-- Flow 1:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 105.463 ms

Loss rate: 0.89%

Run 10: Report of Copa — Data Link

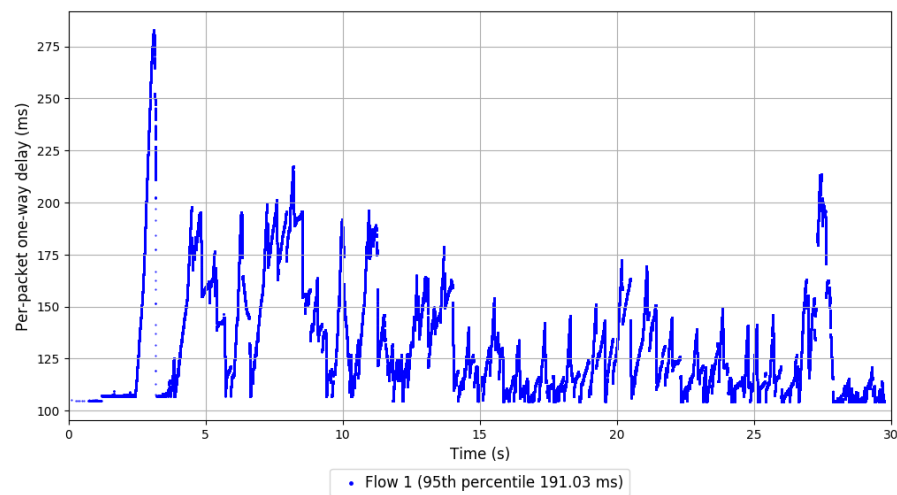
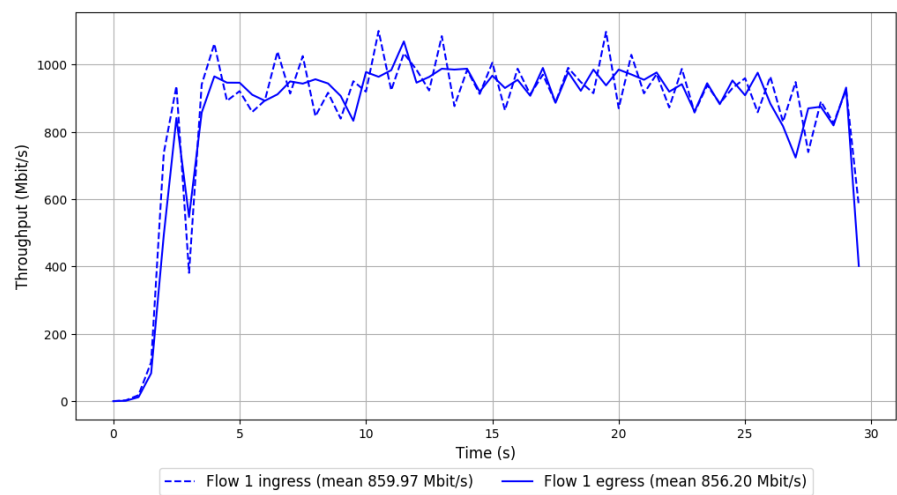


```
Run 1: Statistics of FillP

Start at: 2018-04-24 05:15:20
End at: 2018-04-24 05:15:50

# Below is generated by plot.py at 2018-04-24 10:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 856.20 Mbit/s
95th percentile per-packet one-way delay: 191.033 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 856.20 Mbit/s
95th percentile per-packet one-way delay: 191.033 ms
Loss rate: 1.19%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-24 05:29:10

End at: 2018-04-24 05:29:40

Below is generated by plot.py at 2018-04-24 10:25:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 877.02 Mbit/s

95th percentile per-packet one-way delay: 175.962 ms

Loss rate: 1.74%

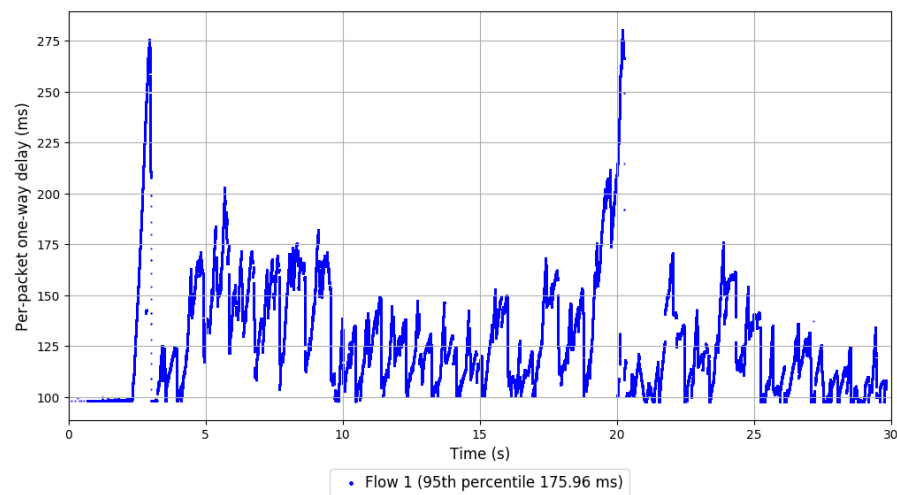
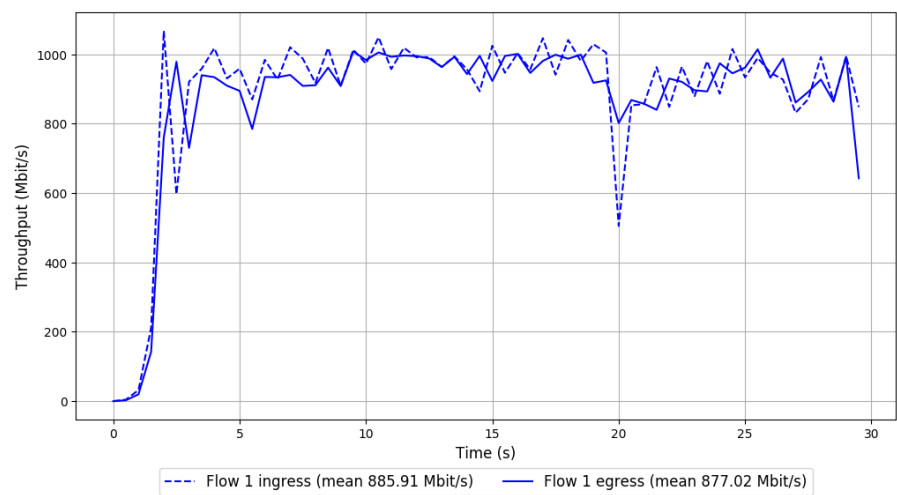
-- Flow 1:

Average throughput: 877.02 Mbit/s

95th percentile per-packet one-way delay: 175.962 ms

Loss rate: 1.74%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-24 05:43:18

End at: 2018-04-24 05:43:48

Below is generated by plot.py at 2018-04-24 10:25:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.79 Mbit/s

95th percentile per-packet one-way delay: 222.870 ms

Loss rate: 0.85%

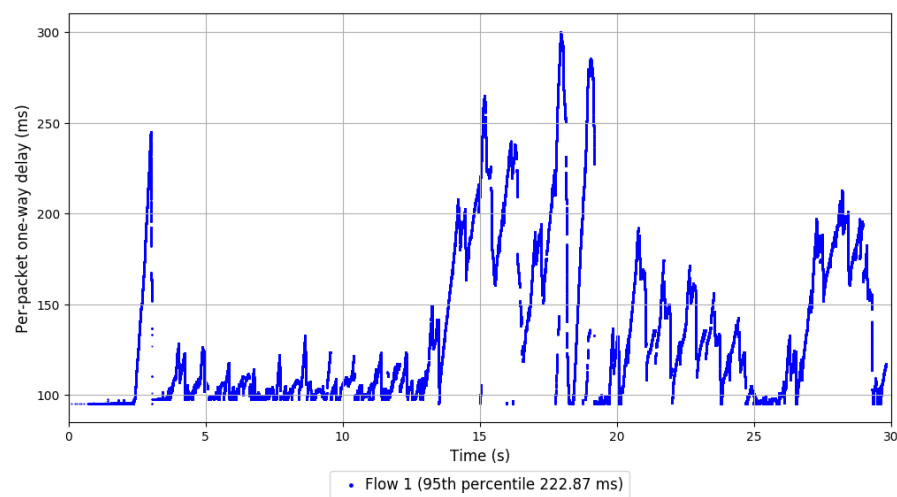
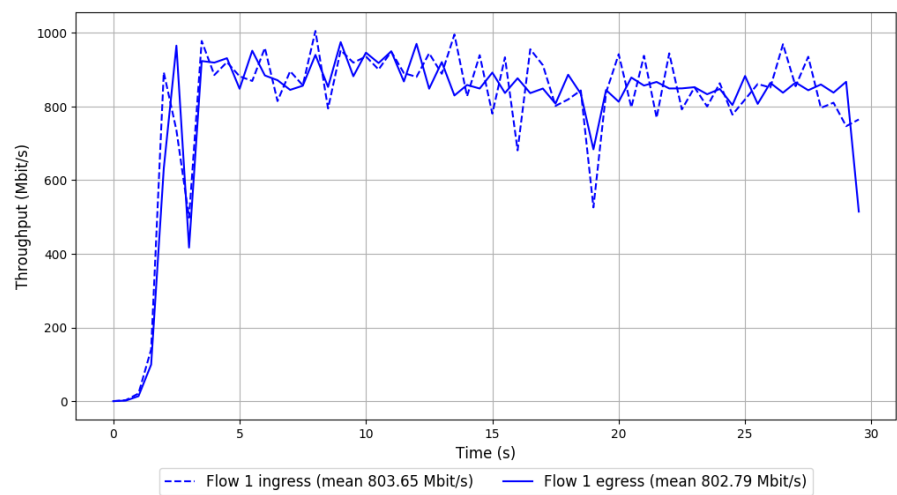
-- Flow 1:

Average throughput: 802.79 Mbit/s

95th percentile per-packet one-way delay: 222.870 ms

Loss rate: 0.85%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-24 05:56:53

End at: 2018-04-24 05:57:23

Below is generated by plot.py at 2018-04-24 10:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 846.54 Mbit/s

95th percentile per-packet one-way delay: 181.164 ms

Loss rate: 2.38%

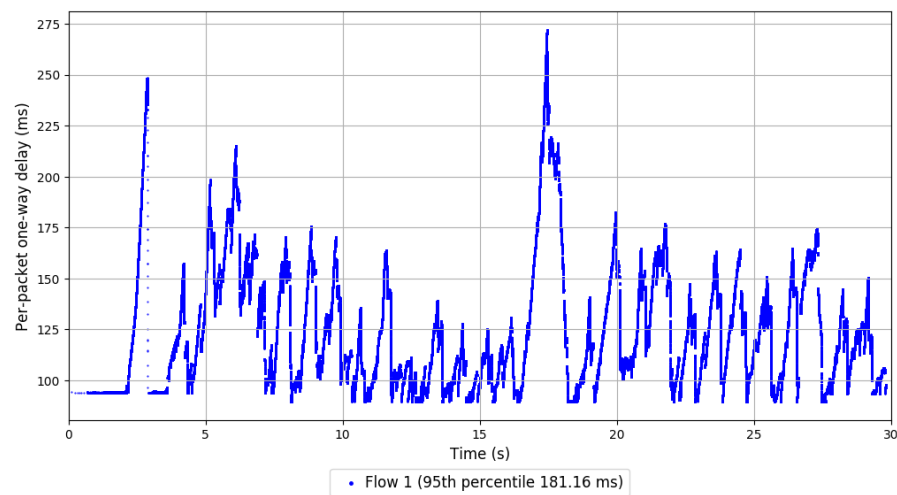
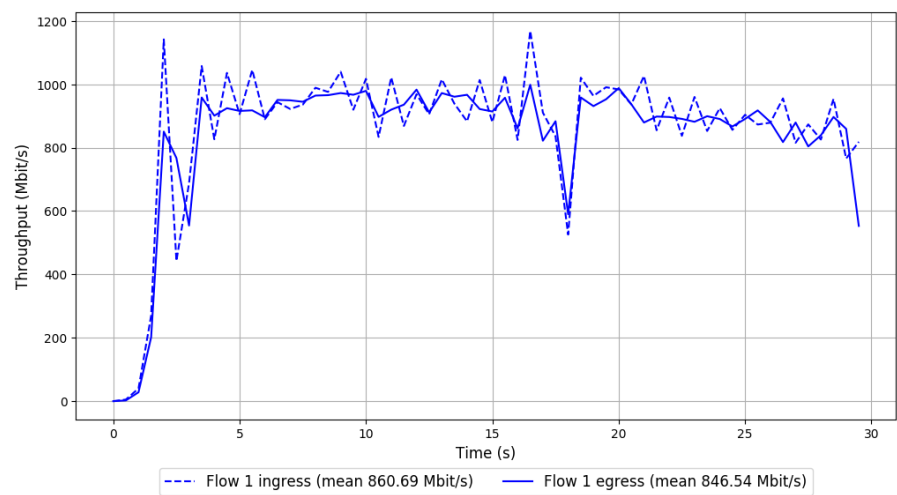
-- Flow 1:

Average throughput: 846.54 Mbit/s

95th percentile per-packet one-way delay: 181.164 ms

Loss rate: 2.38%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 06:10:31

End at: 2018-04-24 06:11:01

Below is generated by plot.py at 2018-04-24 10:26:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 833.36 Mbit/s

95th percentile per-packet one-way delay: 189.628 ms

Loss rate: 3.80%

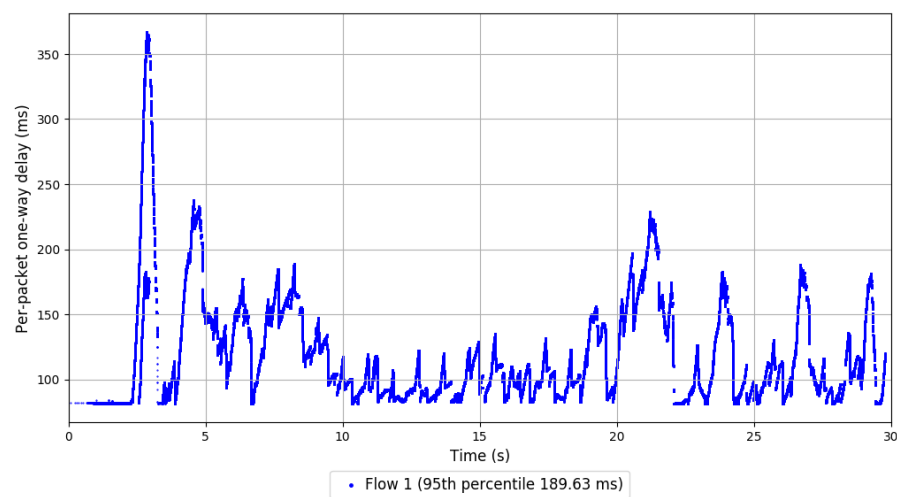
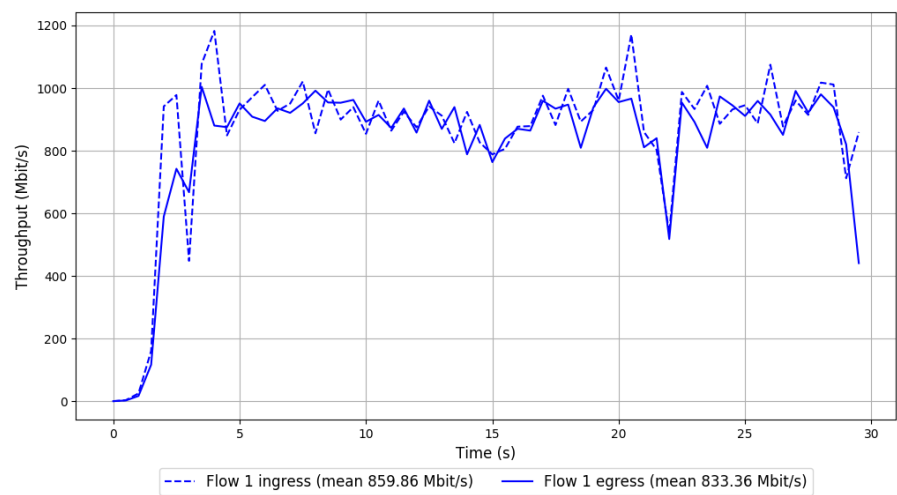
-- Flow 1:

Average throughput: 833.36 Mbit/s

95th percentile per-packet one-way delay: 189.628 ms

Loss rate: 3.80%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-24 06:24:40

End at: 2018-04-24 06:25:10

Below is generated by plot.py at 2018-04-24 10:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 845.12 Mbit/s

95th percentile per-packet one-way delay: 188.965 ms

Loss rate: 1.71%

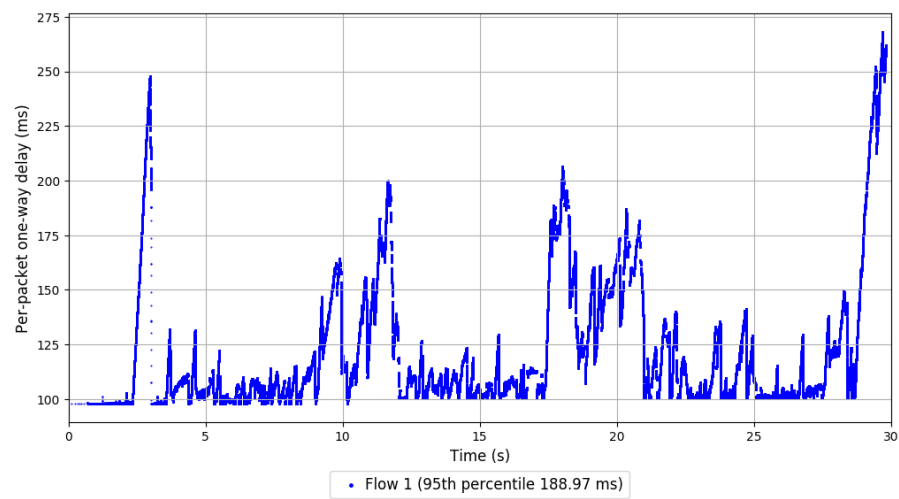
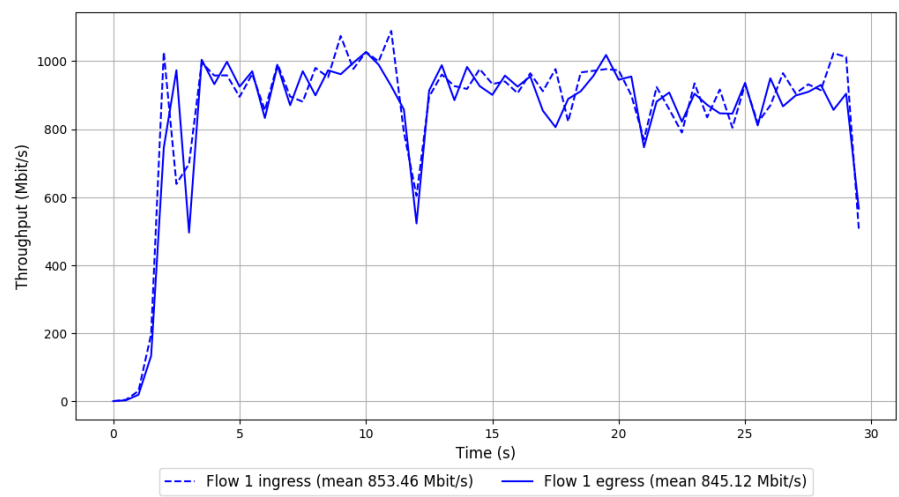
-- Flow 1:

Average throughput: 845.12 Mbit/s

95th percentile per-packet one-way delay: 188.965 ms

Loss rate: 1.71%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-24 06:38:32

End at: 2018-04-24 06:39:02

Below is generated by plot.py at 2018-04-24 10:26:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 858.94 Mbit/s

95th percentile per-packet one-way delay: 213.323 ms

Loss rate: 4.70%

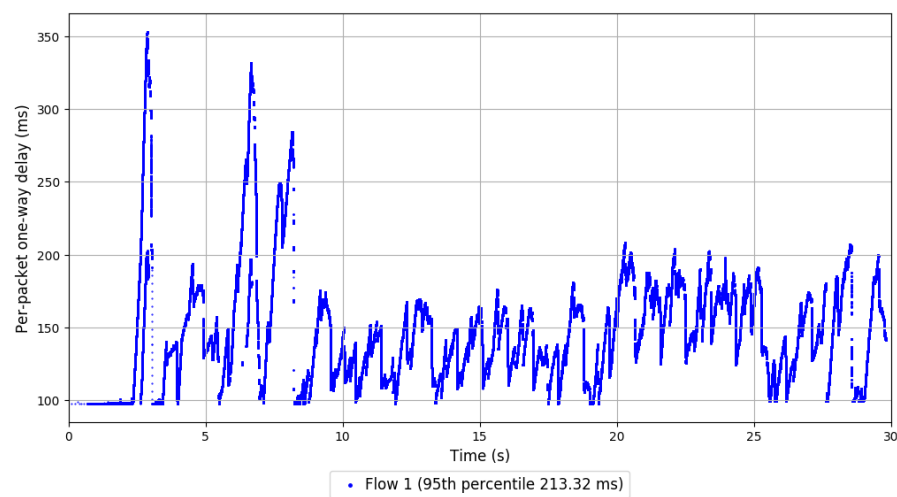
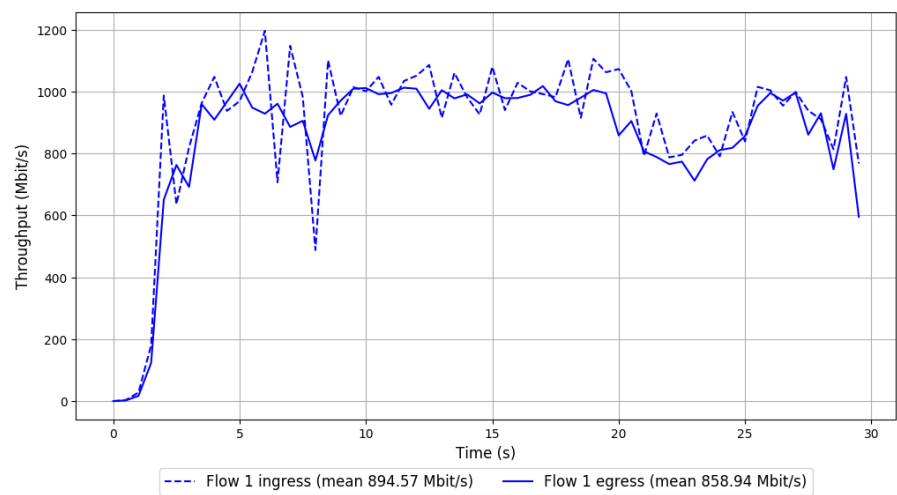
-- Flow 1:

Average throughput: 858.94 Mbit/s

95th percentile per-packet one-way delay: 213.323 ms

Loss rate: 4.70%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-24 06:52:22

End at: 2018-04-24 06:52:52

Below is generated by plot.py at 2018-04-24 10:26:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.56 Mbit/s

95th percentile per-packet one-way delay: 259.633 ms

Loss rate: 5.08%

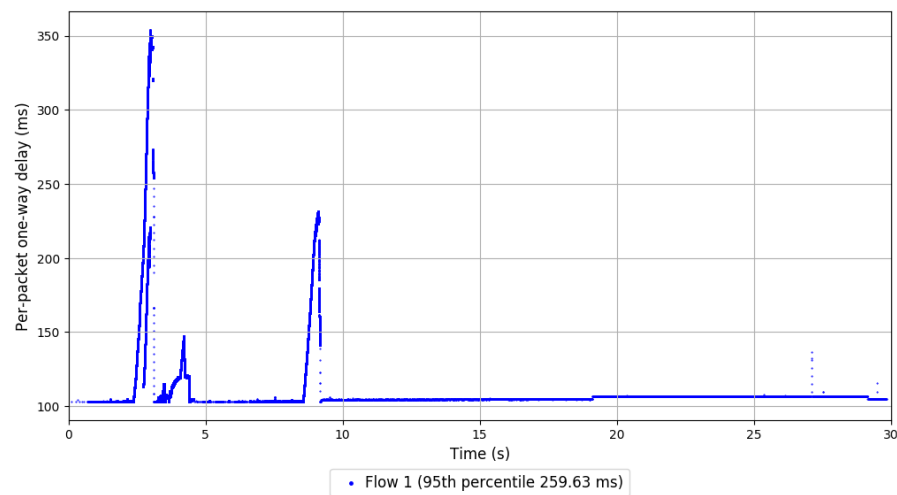
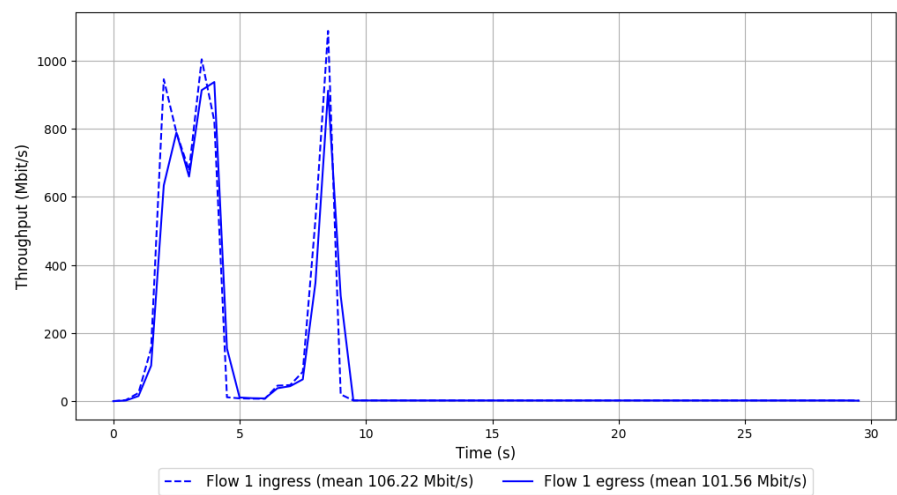
-- Flow 1:

Average throughput: 101.56 Mbit/s

95th percentile per-packet one-way delay: 259.633 ms

Loss rate: 5.08%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-24 07:05:42

End at: 2018-04-24 07:06:12

Below is generated by plot.py at 2018-04-24 10:29:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 867.77 Mbit/s

95th percentile per-packet one-way delay: 247.906 ms

Loss rate: 2.94%

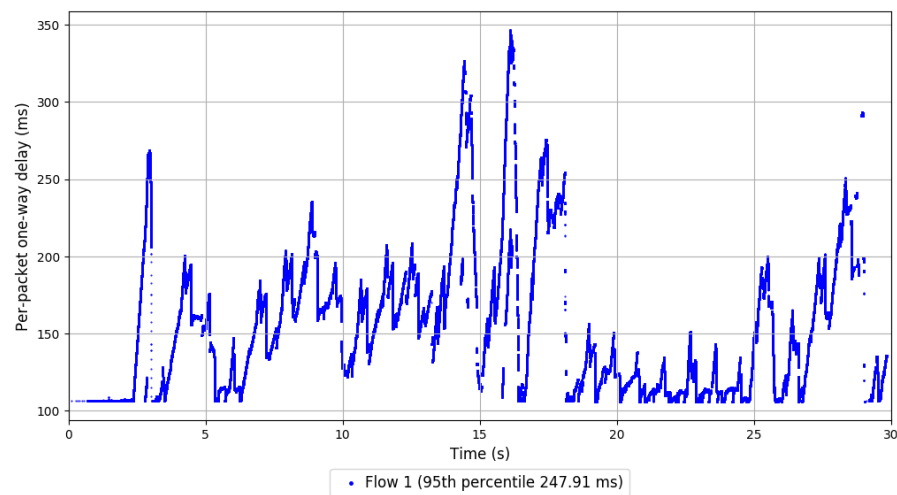
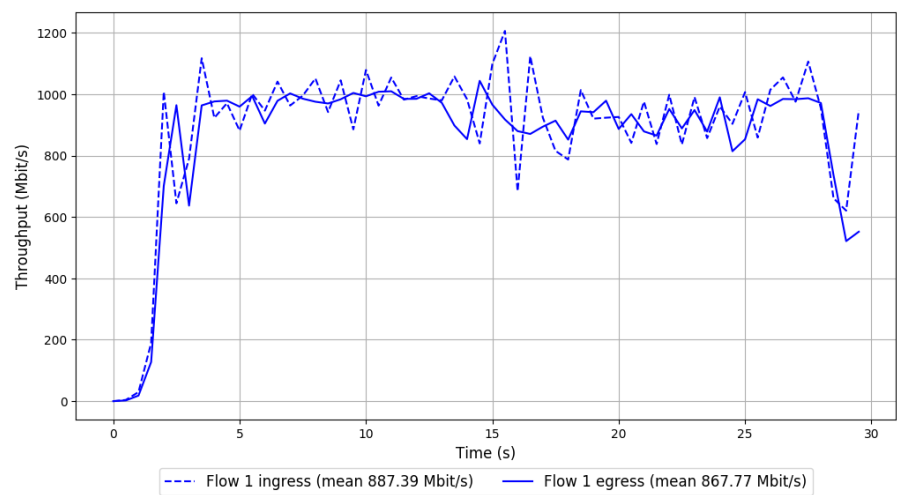
-- Flow 1:

Average throughput: 867.77 Mbit/s

95th percentile per-packet one-way delay: 247.906 ms

Loss rate: 2.94%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-24 07:19:48

End at: 2018-04-24 07:20:18

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 853.63 Mbit/s

95th percentile per-packet one-way delay: 228.818 ms

Loss rate: 1.76%

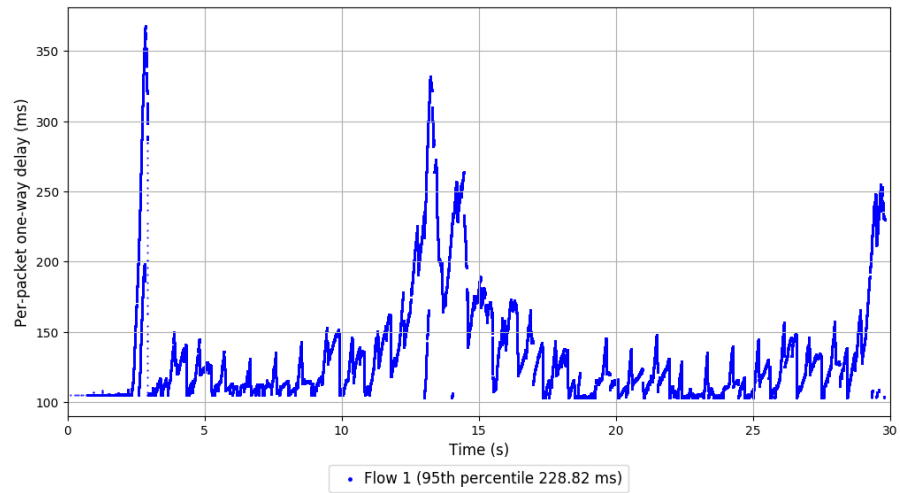
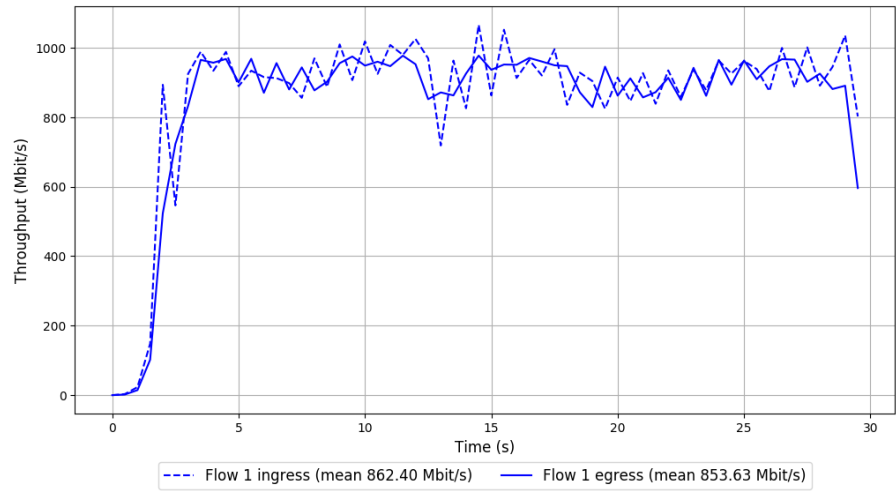
-- Flow 1:

Average throughput: 853.63 Mbit/s

95th percentile per-packet one-way delay: 228.818 ms

Loss rate: 1.76%

Run 10: Report of FillP — Data Link

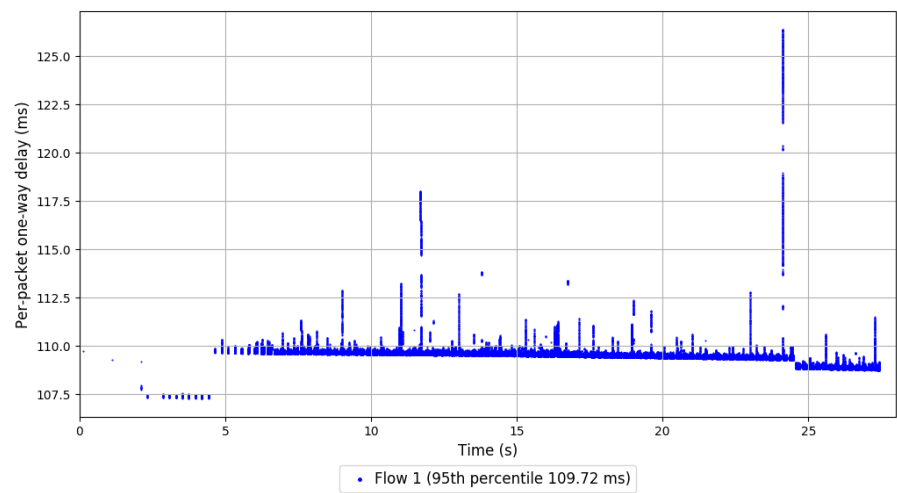
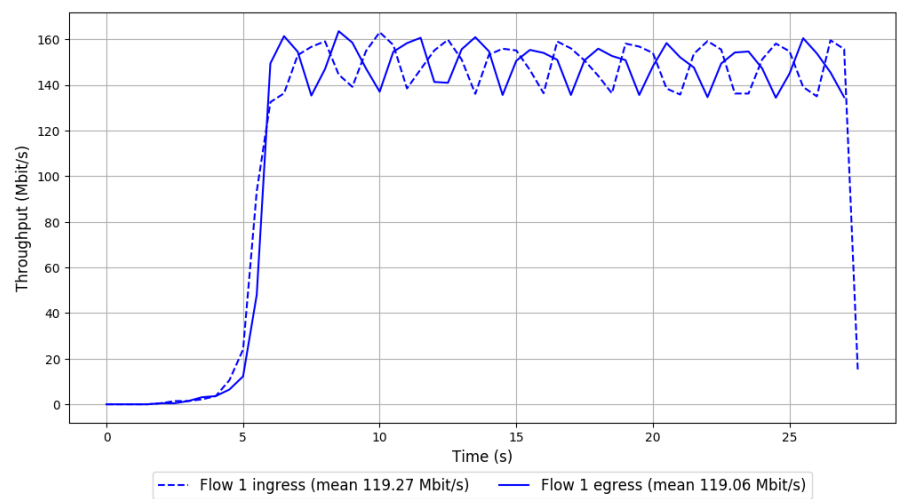


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 05:05:44
End at: 2018-04-24 05:06:14

# Below is generated by plot.py at 2018-04-24 10:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.06 Mbit/s
95th percentile per-packet one-way delay: 109.721 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 119.06 Mbit/s
95th percentile per-packet one-way delay: 109.721 ms
Loss rate: 0.94%
```

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

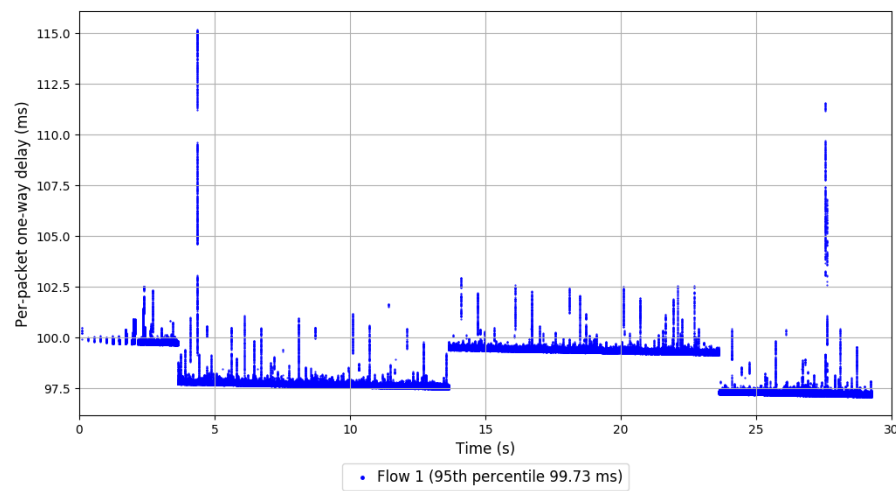
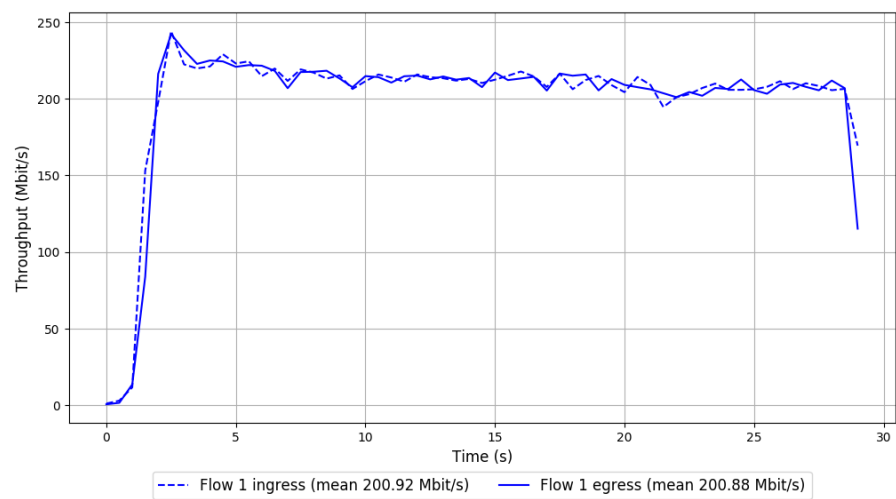


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 05:19:27
End at: 2018-04-24 05:19:57

# Below is generated by plot.py at 2018-04-24 10:37:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.88 Mbit/s
95th percentile per-packet one-way delay: 99.734 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 200.88 Mbit/s
95th percentile per-packet one-way delay: 99.734 ms
Loss rate: 0.78%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 05:33:25

End at: 2018-04-24 05:33:55

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.57 Mbit/s

95th percentile per-packet one-way delay: 96.065 ms

Loss rate: 0.76%

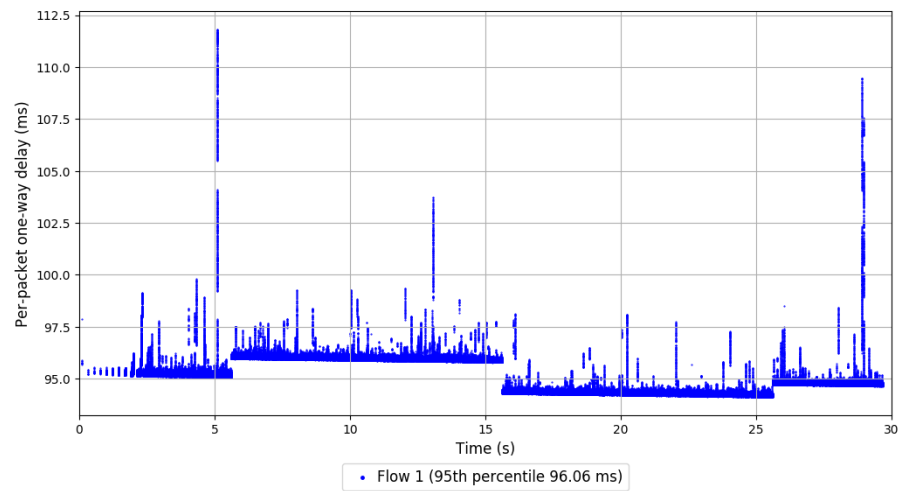
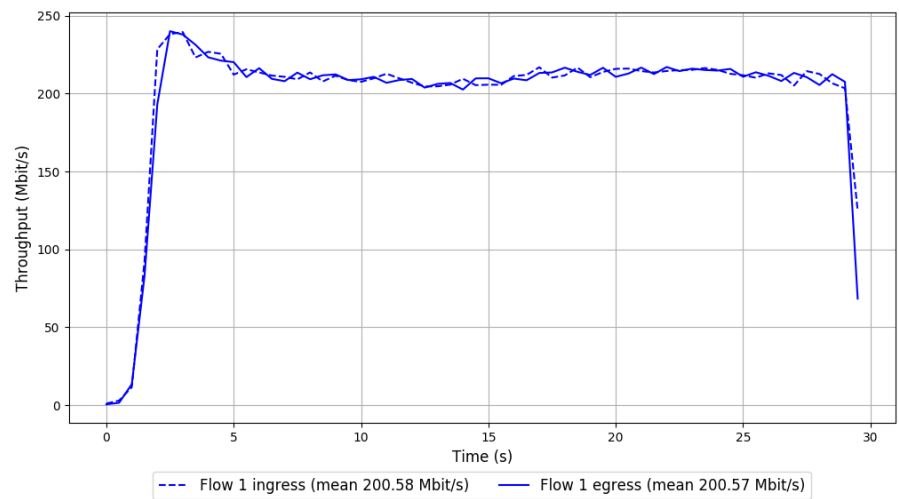
-- Flow 1:

Average throughput: 200.57 Mbit/s

95th percentile per-packet one-way delay: 96.065 ms

Loss rate: 0.76%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 05:47:13

End at: 2018-04-24 05:47:43

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.84 Mbit/s

95th percentile per-packet one-way delay: 97.239 ms

Loss rate: 0.76%

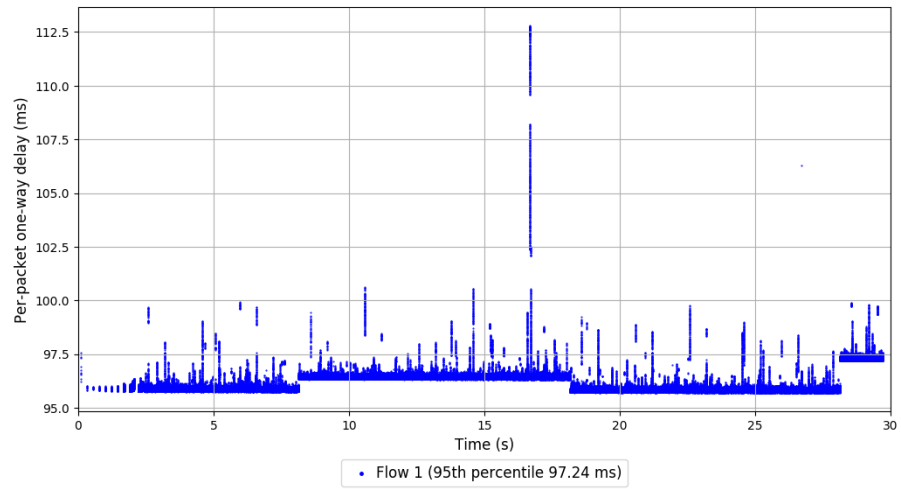
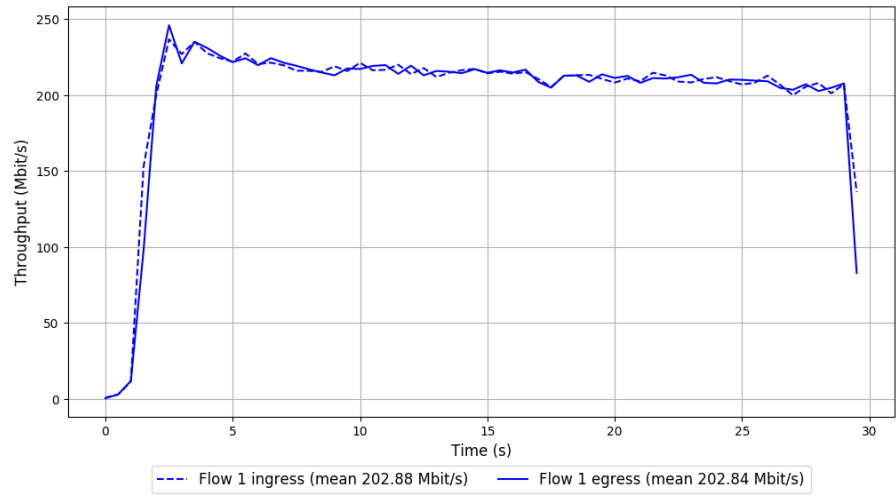
-- Flow 1:

Average throughput: 202.84 Mbit/s

95th percentile per-packet one-way delay: 97.239 ms

Loss rate: 0.76%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 06:00:50

End at: 2018-04-24 06:01:20

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.18 Mbit/s

95th percentile per-packet one-way delay: 90.797 ms

Loss rate: 0.79%

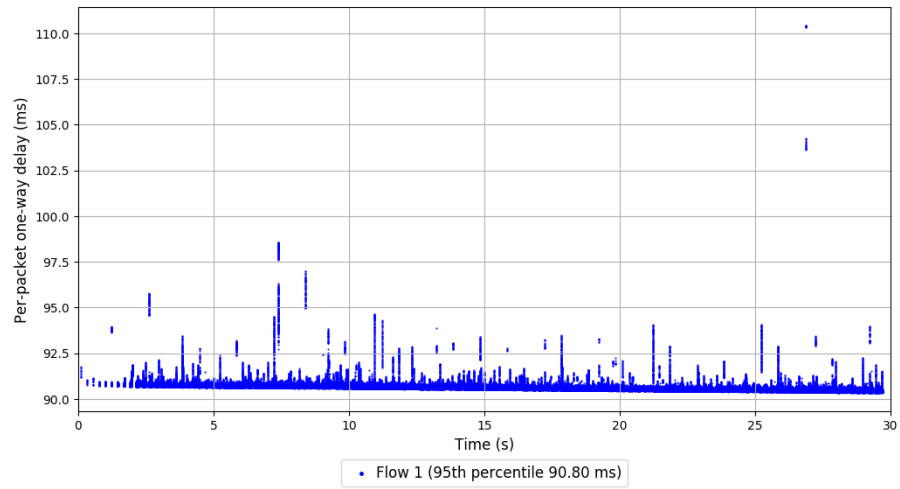
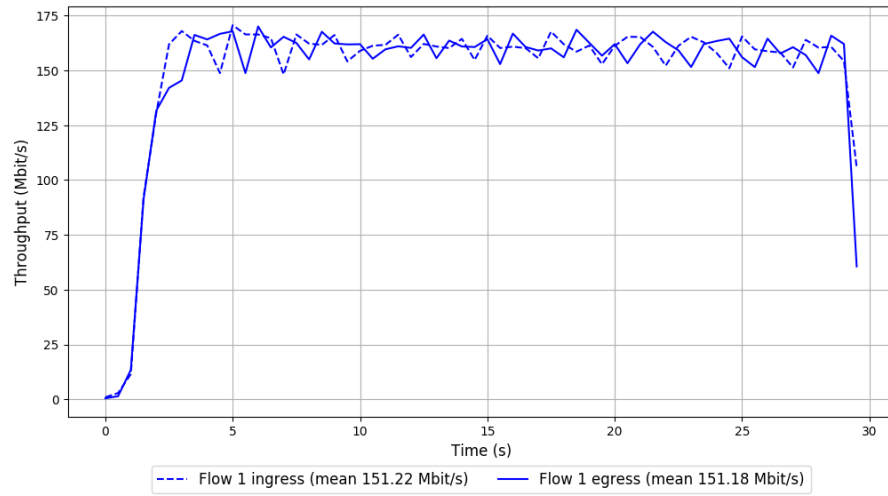
-- Flow 1:

Average throughput: 151.18 Mbit/s

95th percentile per-packet one-way delay: 90.797 ms

Loss rate: 0.79%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 06:14:44

End at: 2018-04-24 06:15:14

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.28 Mbit/s

95th percentile per-packet one-way delay: 91.611 ms

Loss rate: 0.71%

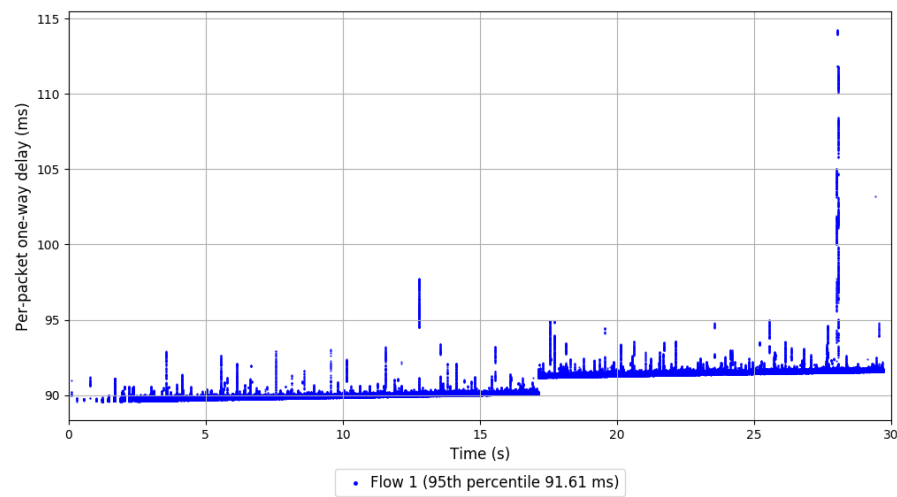
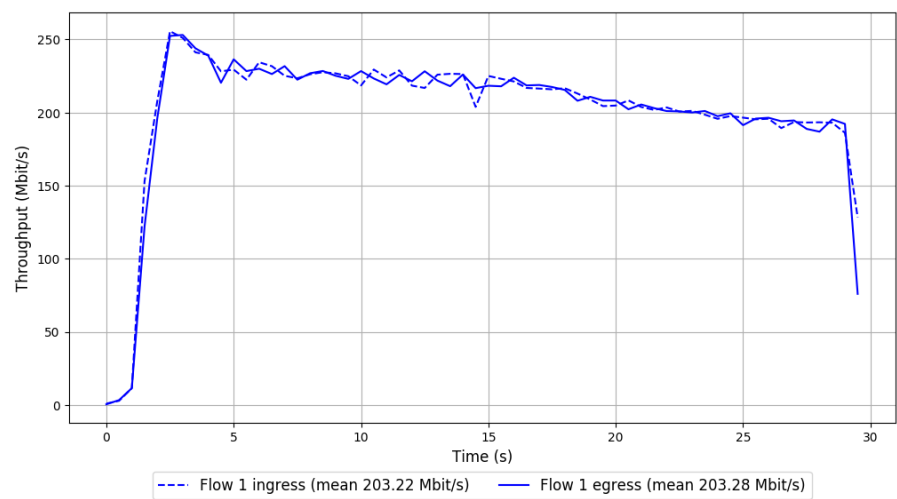
-- Flow 1:

Average throughput: 203.28 Mbit/s

95th percentile per-packet one-way delay: 91.611 ms

Loss rate: 0.71%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 06:28:38

End at: 2018-04-24 06:29:08

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.92 Mbit/s

95th percentile per-packet one-way delay: 100.017 ms

Loss rate: 0.75%

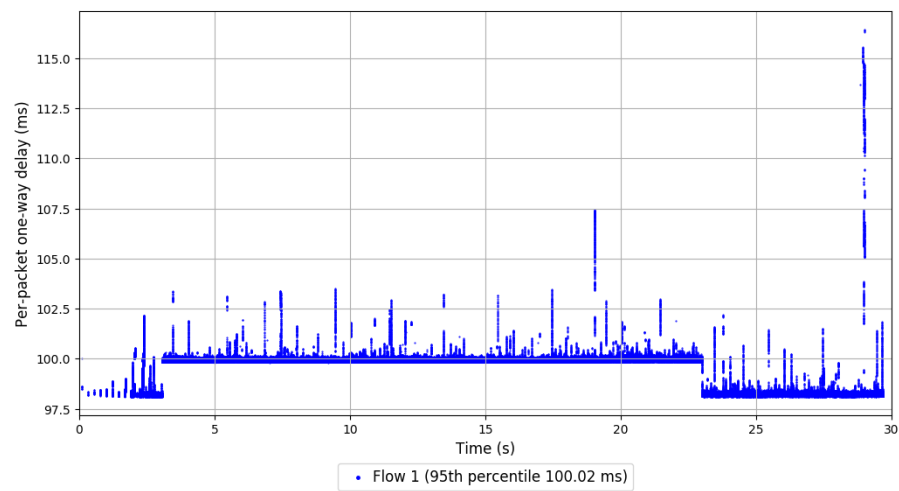
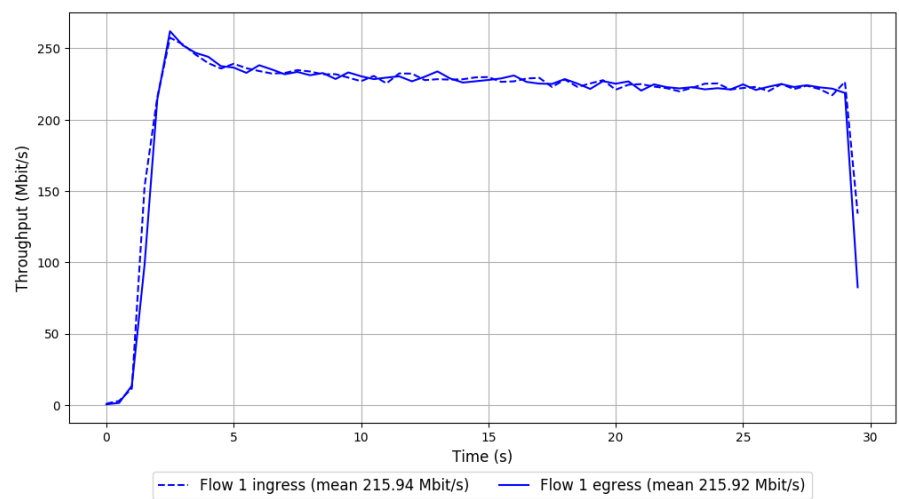
-- Flow 1:

Average throughput: 215.92 Mbit/s

95th percentile per-packet one-way delay: 100.017 ms

Loss rate: 0.75%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 06:42:39

End at: 2018-04-24 06:43:09

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.46 Mbit/s

95th percentile per-packet one-way delay: 97.143 ms

Loss rate: 0.76%

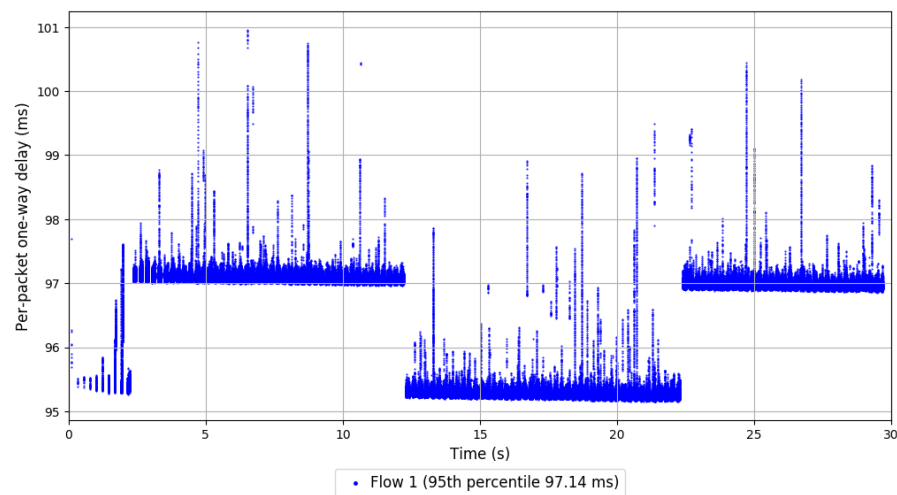
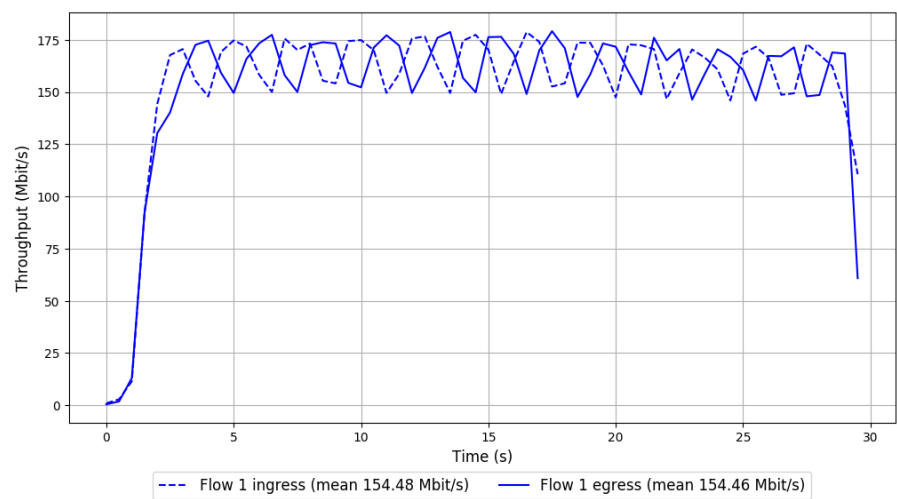
-- Flow 1:

Average throughput: 154.46 Mbit/s

95th percentile per-packet one-way delay: 97.143 ms

Loss rate: 0.76%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 06:55:58

End at: 2018-04-24 06:56:28

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.95 Mbit/s

95th percentile per-packet one-way delay: 104.739 ms

Loss rate: 0.77%

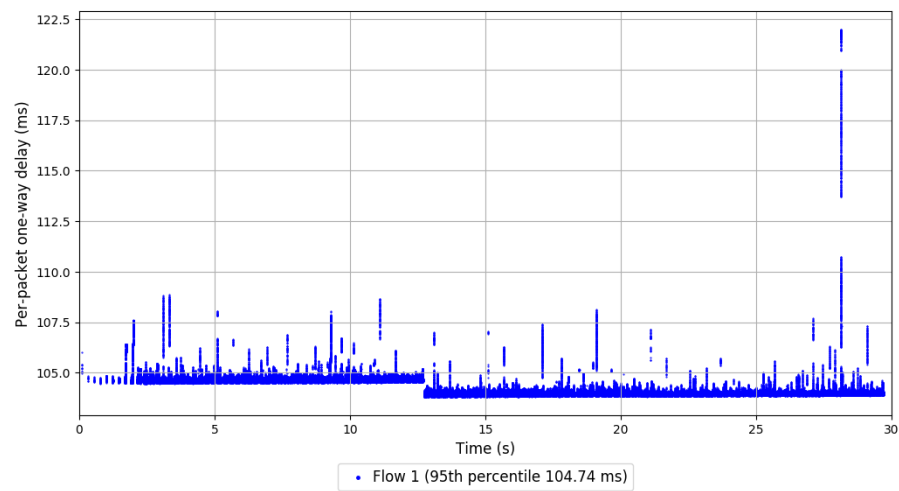
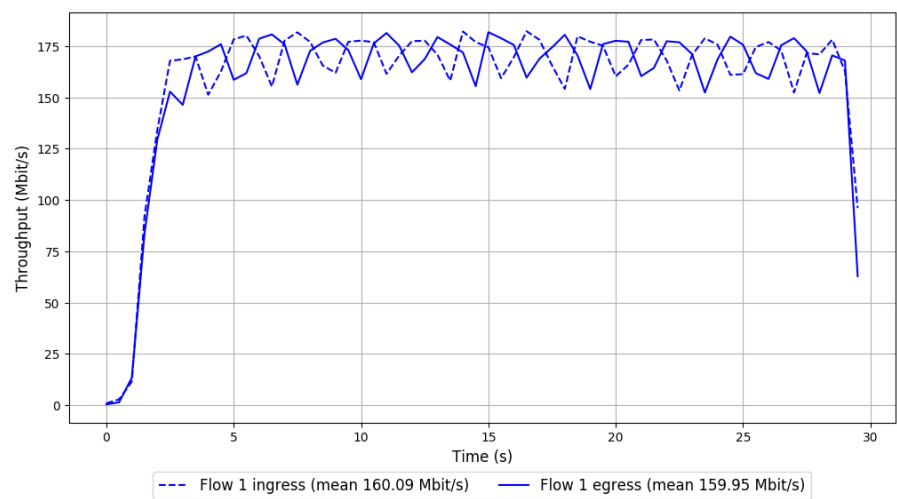
-- Flow 1:

Average throughput: 159.95 Mbit/s

95th percentile per-packet one-way delay: 104.739 ms

Loss rate: 0.77%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 07:09:52

End at: 2018-04-24 07:10:22

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.63 Mbit/s

95th percentile per-packet one-way delay: 104.523 ms

Loss rate: 0.82%

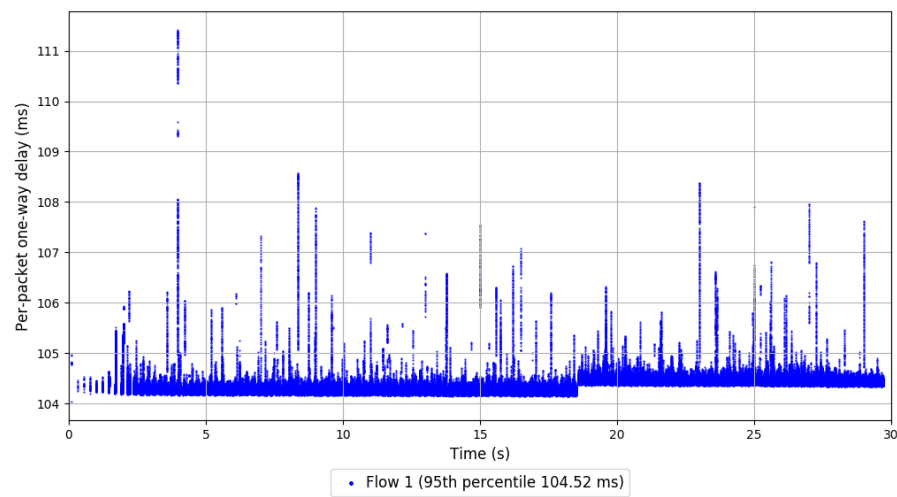
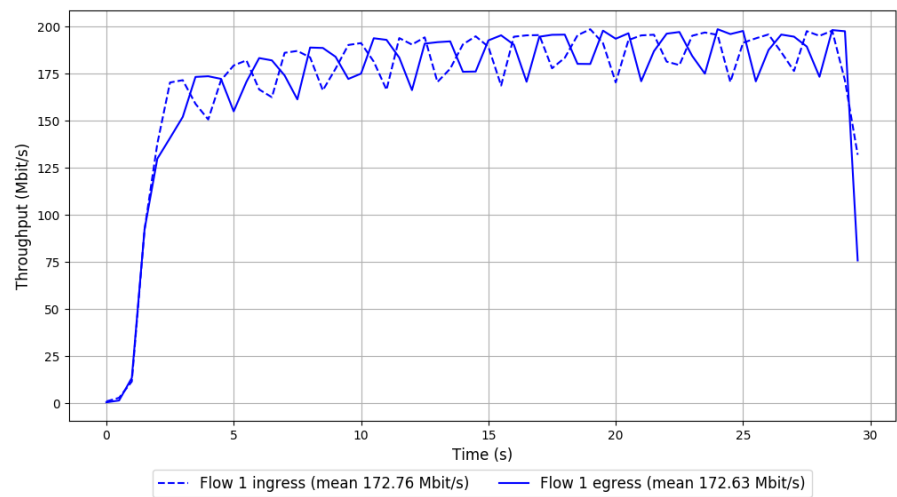
-- Flow 1:

Average throughput: 172.63 Mbit/s

95th percentile per-packet one-way delay: 104.523 ms

Loss rate: 0.82%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 05:12:55

End at: 2018-04-24 05:13:25

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.79 Mbit/s

95th percentile per-packet one-way delay: 107.873 ms

Loss rate: 1.08%

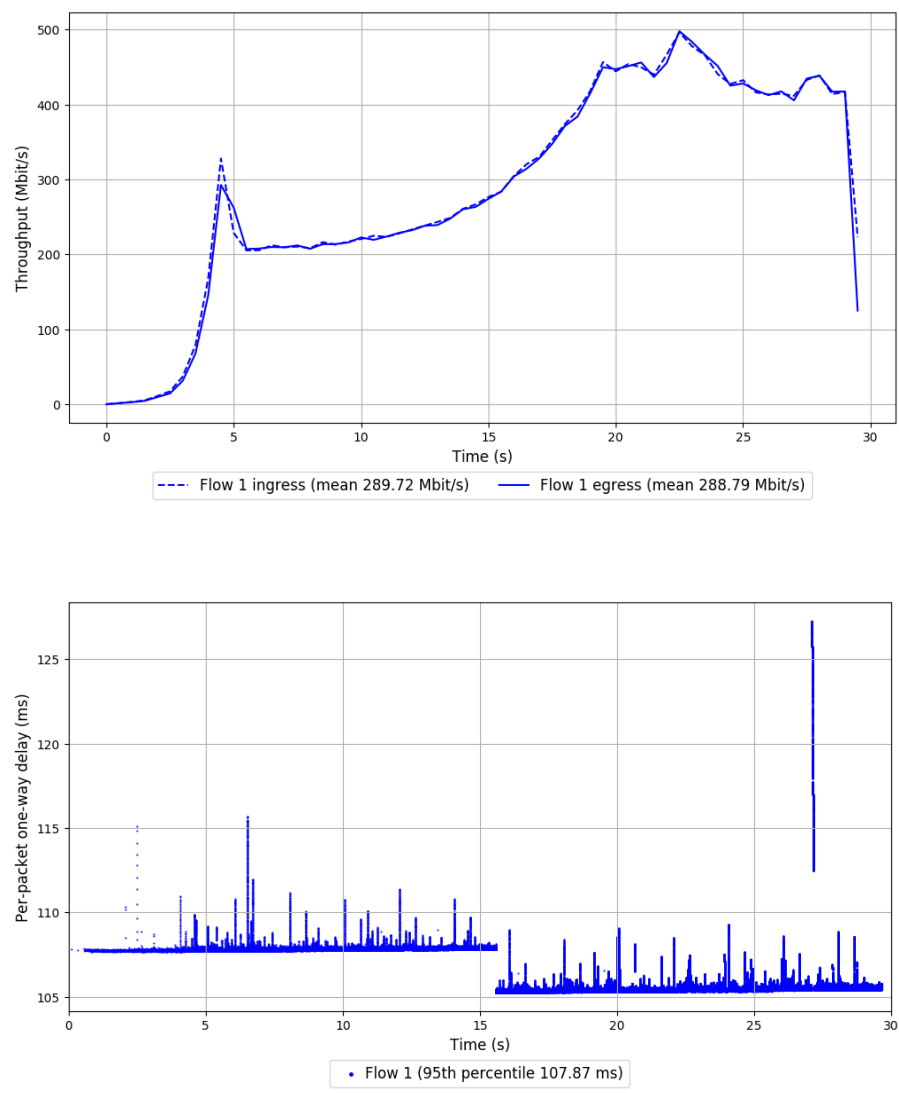
-- Flow 1:

Average throughput: 288.79 Mbit/s

95th percentile per-packet one-way delay: 107.873 ms

Loss rate: 1.08%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 05:26:47

End at: 2018-04-24 05:27:18

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.02 Mbit/s

95th percentile per-packet one-way delay: 102.066 ms

Loss rate: 1.07%

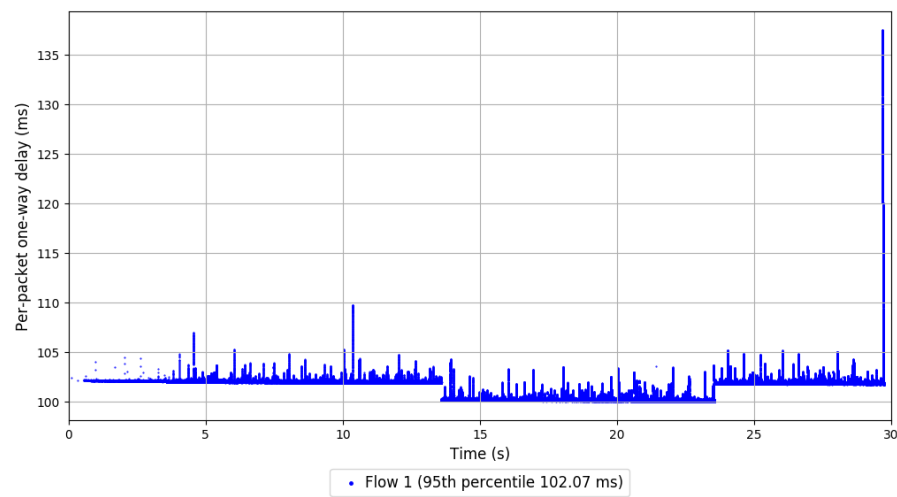
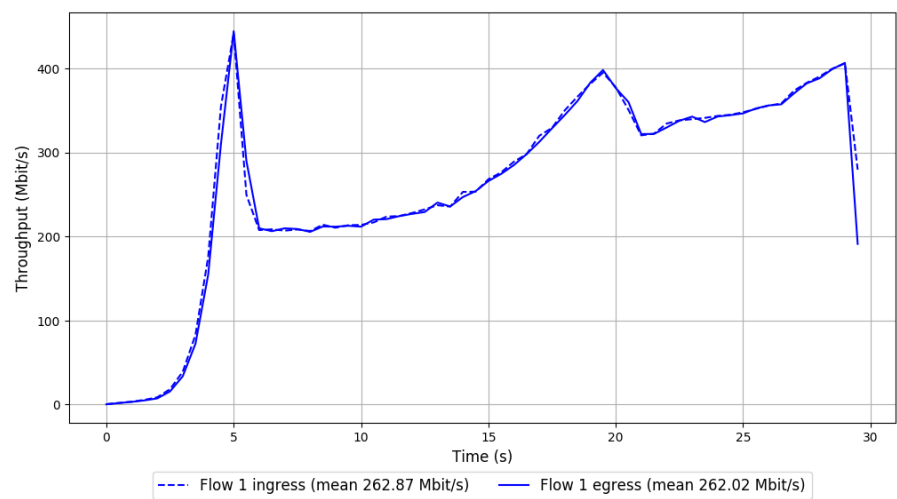
-- Flow 1:

Average throughput: 262.02 Mbit/s

95th percentile per-packet one-way delay: 102.066 ms

Loss rate: 1.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 05:40:49

End at: 2018-04-24 05:41:19

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.27 Mbit/s

95th percentile per-packet one-way delay: 96.292 ms

Loss rate: 0.86%

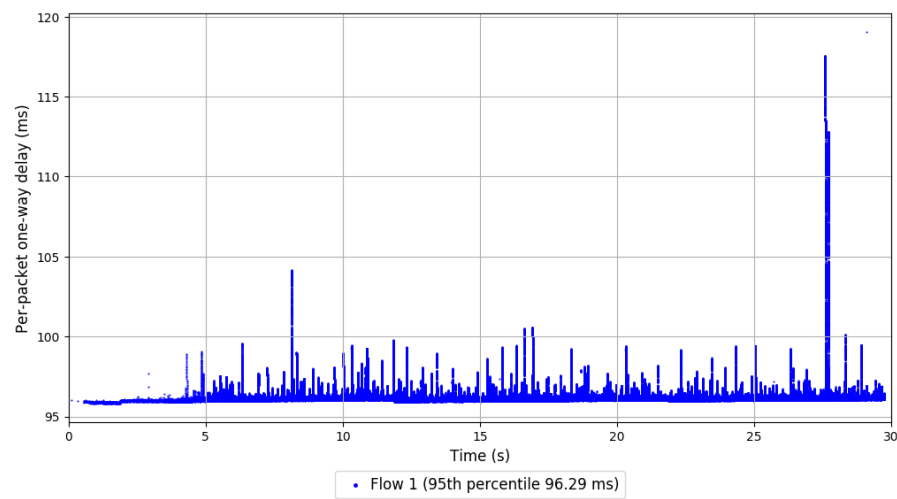
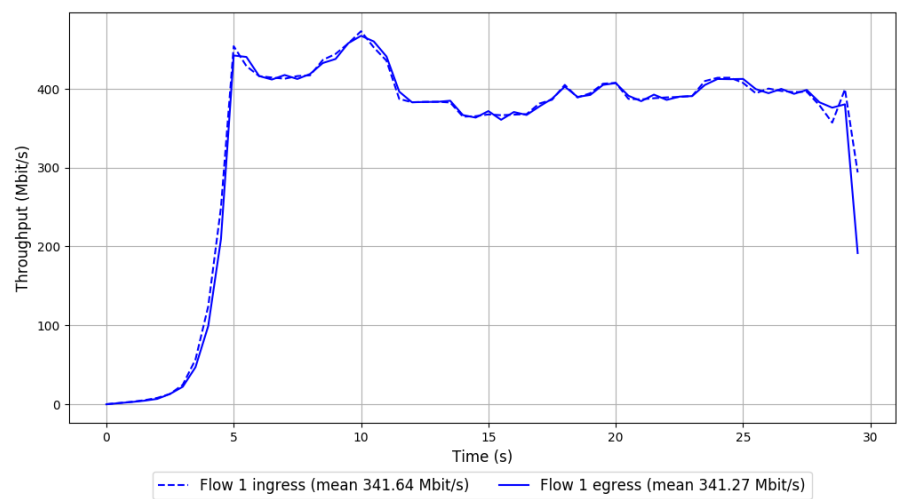
-- Flow 1:

Average throughput: 341.27 Mbit/s

95th percentile per-packet one-way delay: 96.292 ms

Loss rate: 0.86%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 05:54:31

End at: 2018-04-24 05:55:01

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.10 Mbit/s

95th percentile per-packet one-way delay: 93.249 ms

Loss rate: 1.03%

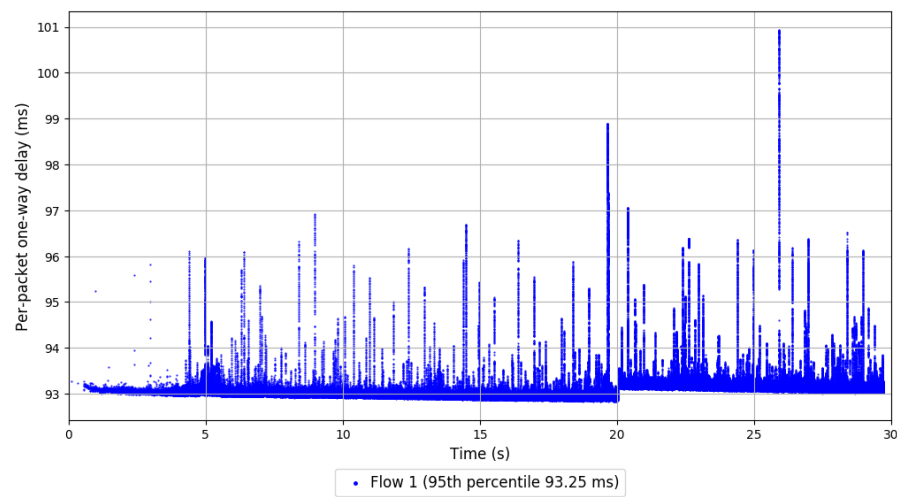
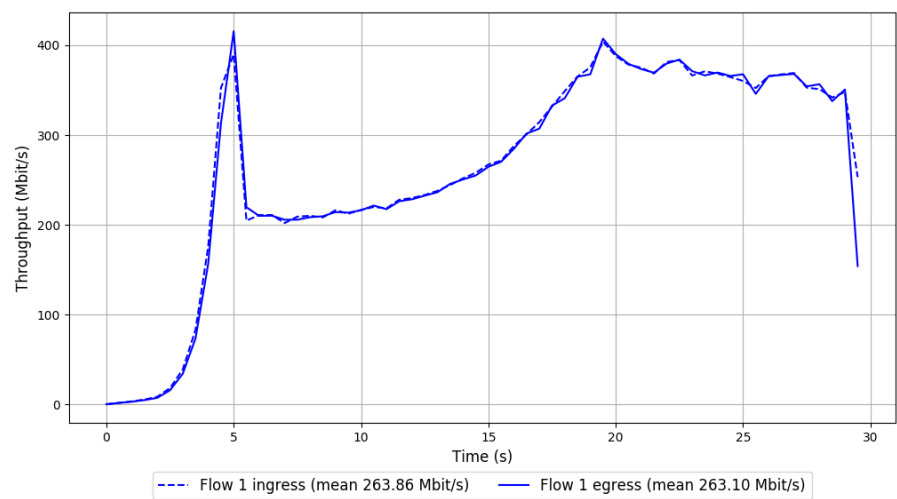
-- Flow 1:

Average throughput: 263.10 Mbit/s

95th percentile per-packet one-way delay: 93.249 ms

Loss rate: 1.03%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 06:08:11

End at: 2018-04-24 06:08:41

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.15 Mbit/s

95th percentile per-packet one-way delay: 84.838 ms

Loss rate: 1.49%

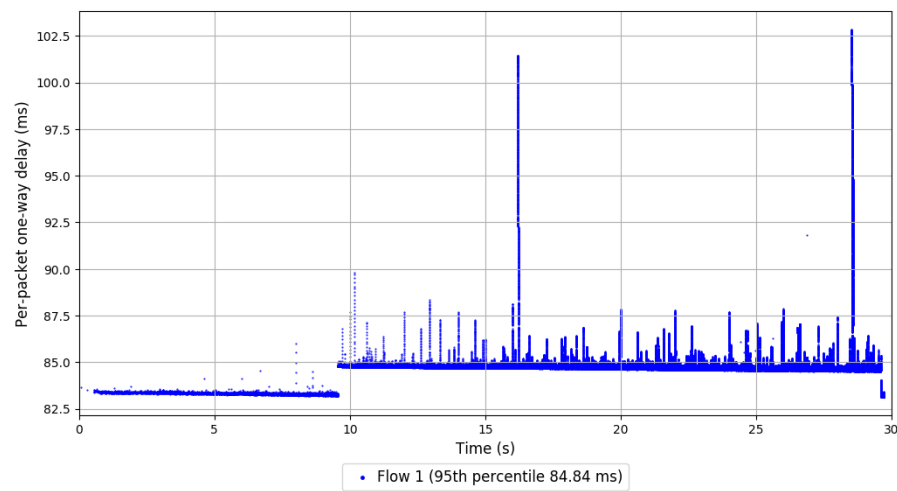
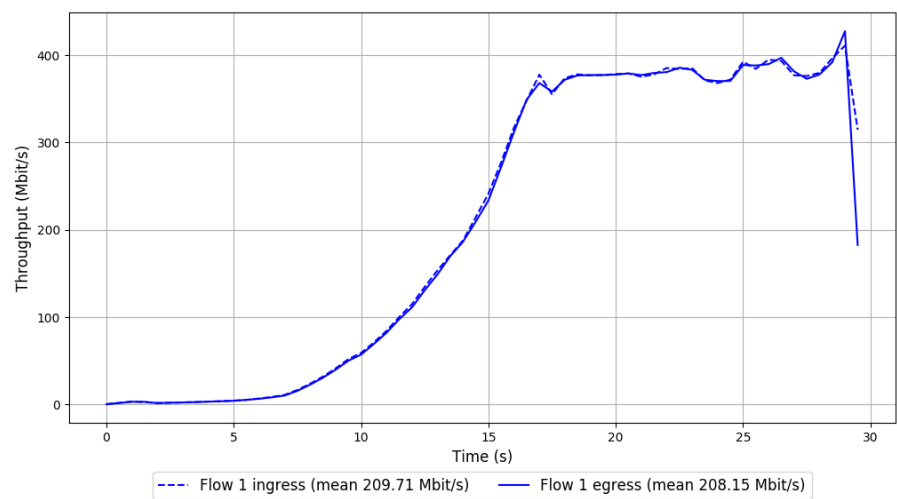
-- Flow 1:

Average throughput: 208.15 Mbit/s

95th percentile per-packet one-way delay: 84.838 ms

Loss rate: 1.49%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 06:22:14

End at: 2018-04-24 06:22:44

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.40 Mbit/s

95th percentile per-packet one-way delay: 98.248 ms

Loss rate: 0.80%

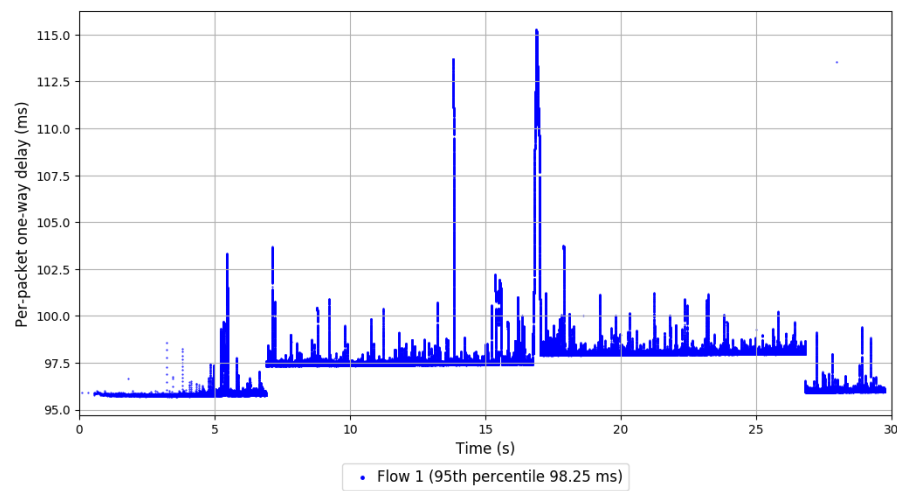
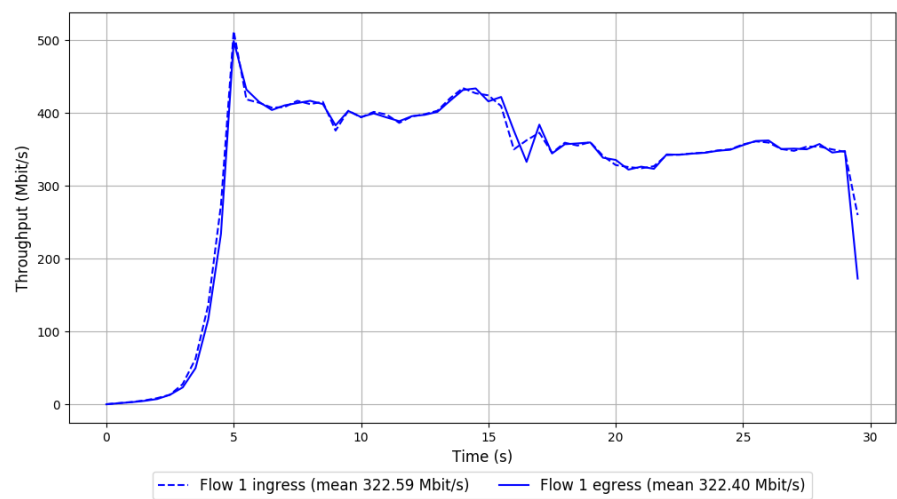
-- Flow 1:

Average throughput: 322.40 Mbit/s

95th percentile per-packet one-way delay: 98.248 ms

Loss rate: 0.80%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 06:36:02

End at: 2018-04-24 06:36:32

Below is generated by plot.py at 2018-04-24 10:37:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.72 Mbit/s

95th percentile per-packet one-way delay: 141.015 ms

Loss rate: 0.64%

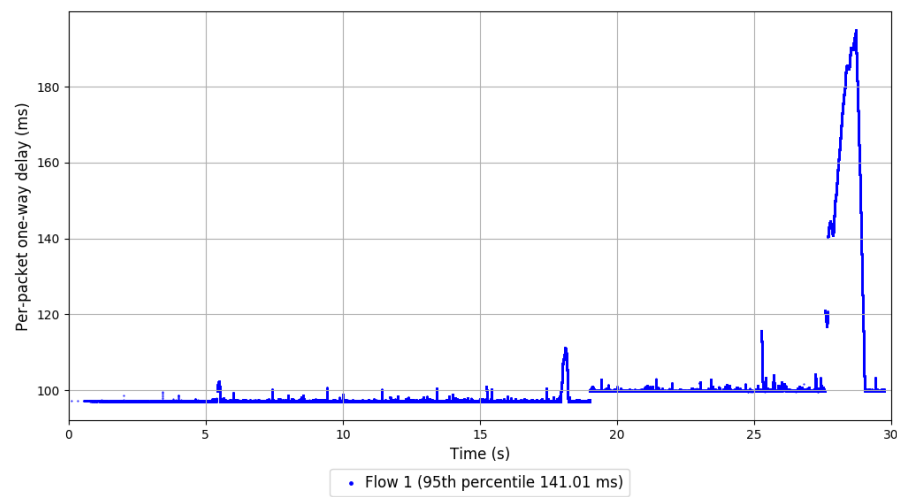
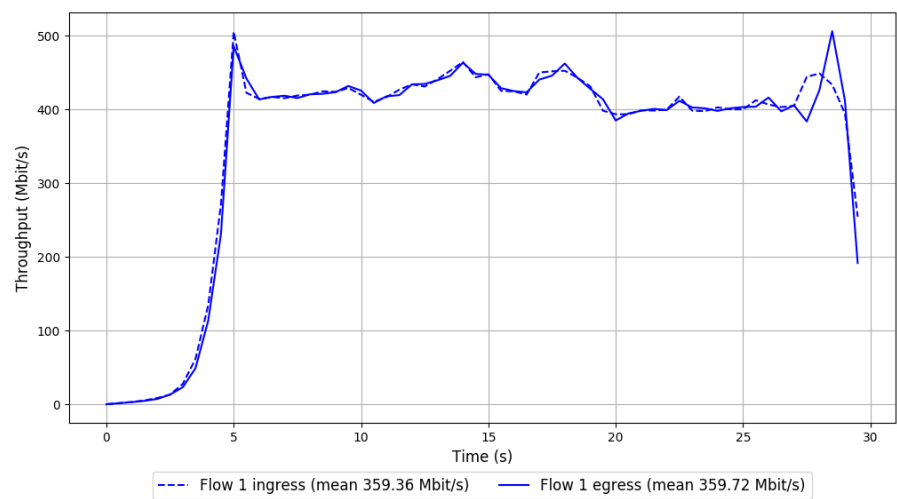
-- Flow 1:

Average throughput: 359.72 Mbit/s

95th percentile per-packet one-way delay: 141.015 ms

Loss rate: 0.64%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 06:49:54

End at: 2018-04-24 06:50:24

Below is generated by plot.py at 2018-04-24 10:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.63 Mbit/s

95th percentile per-packet one-way delay: 102.618 ms

Loss rate: 0.98%

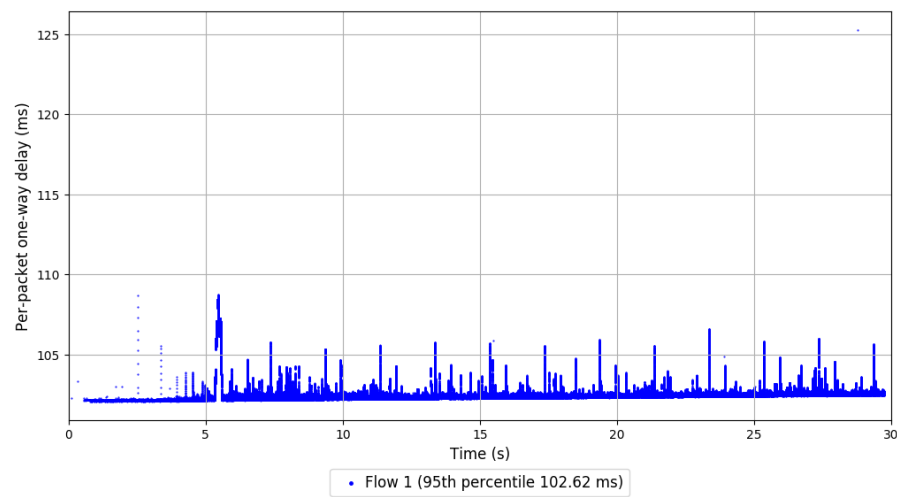
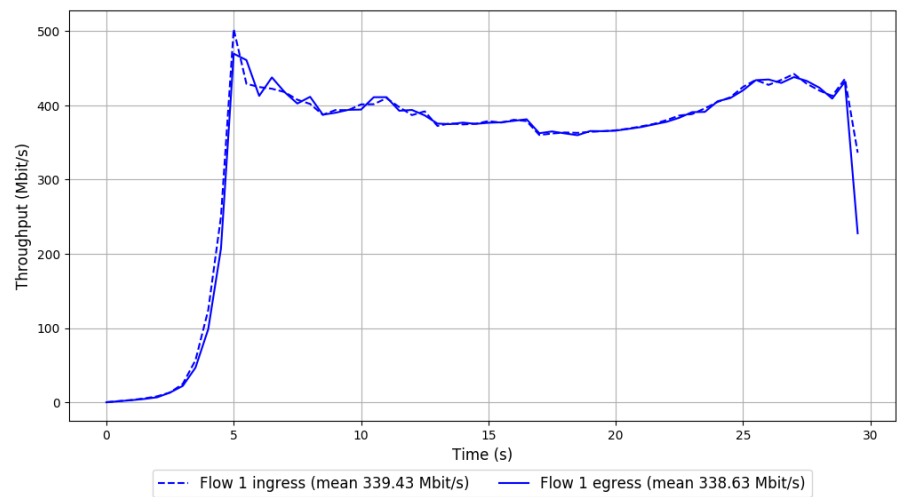
-- Flow 1:

Average throughput: 338.63 Mbit/s

95th percentile per-packet one-way delay: 102.618 ms

Loss rate: 0.98%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 07:03:18

End at: 2018-04-24 07:03:49

Below is generated by plot.py at 2018-04-24 10:37:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.65 Mbit/s

95th percentile per-packet one-way delay: 106.667 ms

Loss rate: 1.00%

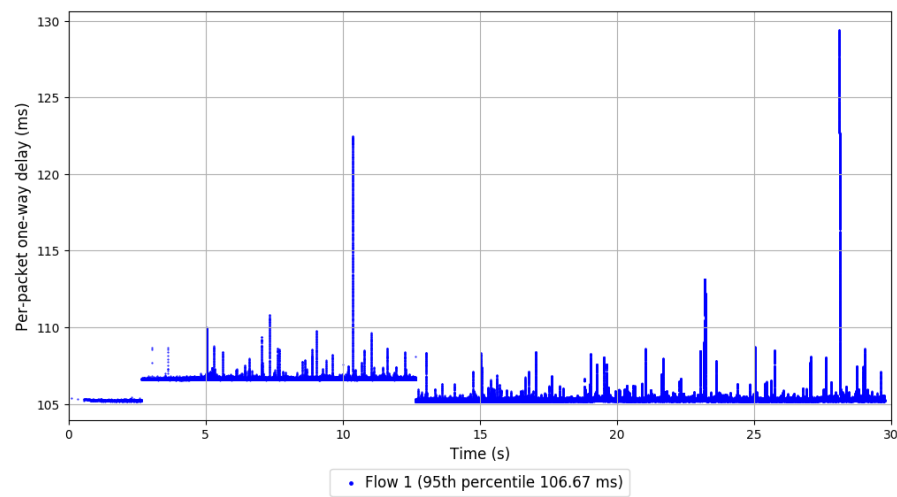
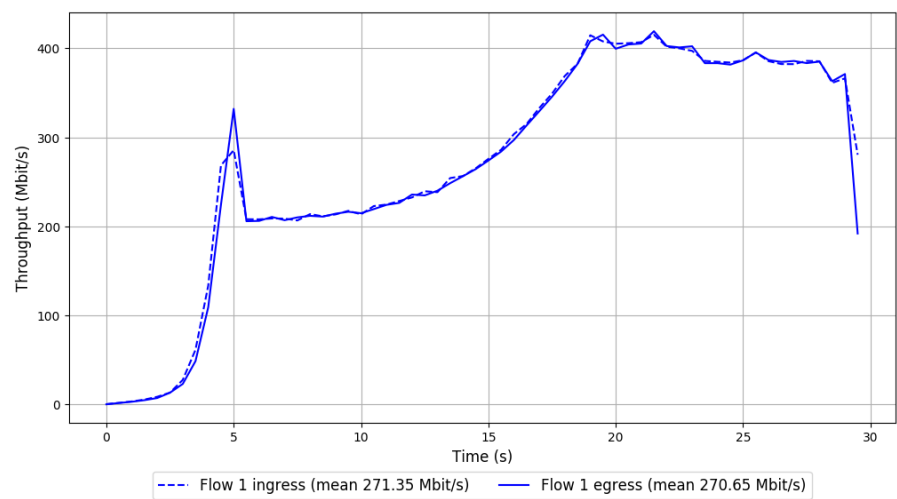
-- Flow 1:

Average throughput: 270.65 Mbit/s

95th percentile per-packet one-way delay: 106.667 ms

Loss rate: 1.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 07:17:20

End at: 2018-04-24 07:17:50

Below is generated by plot.py at 2018-04-24 10:37:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.26 Mbit/s

95th percentile per-packet one-way delay: 106.227 ms

Loss rate: 0.92%

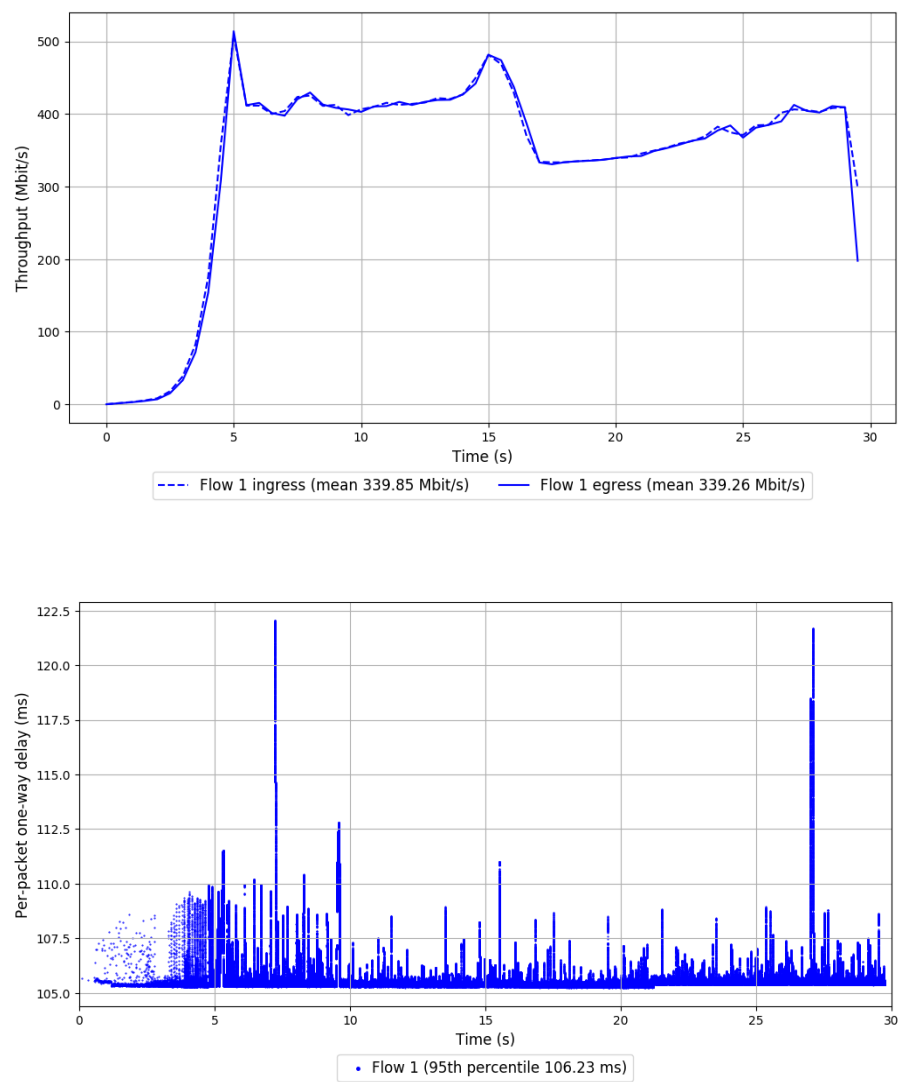
-- Flow 1:

Average throughput: 339.26 Mbit/s

95th percentile per-packet one-way delay: 106.227 ms

Loss rate: 0.92%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 05:17:25

End at: 2018-04-24 05:17:55

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 05:31:24

End at: 2018-04-24 05:31:54

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 05:45:11

End at: 2018-04-24 05:45:41

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 05:58:48

End at: 2018-04-24 05:59:18

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 06:12:42

End at: 2018-04-24 06:13:12

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 06:26:36

End at: 2018-04-24 06:27:06

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 06:40:37

End at: 2018-04-24 06:41:07

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 06:53:56

End at: 2018-04-24 06:54:26

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 07:07:51

End at: 2018-04-24 07:08:21

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 07:21:58

End at: 2018-04-24 07:22:28

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing