

Pantheon Report

Generated at 2018-04-18 00:17:24 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

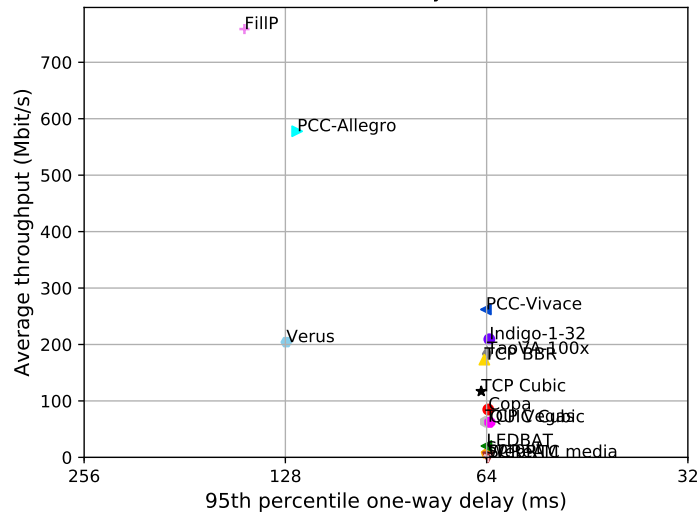
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

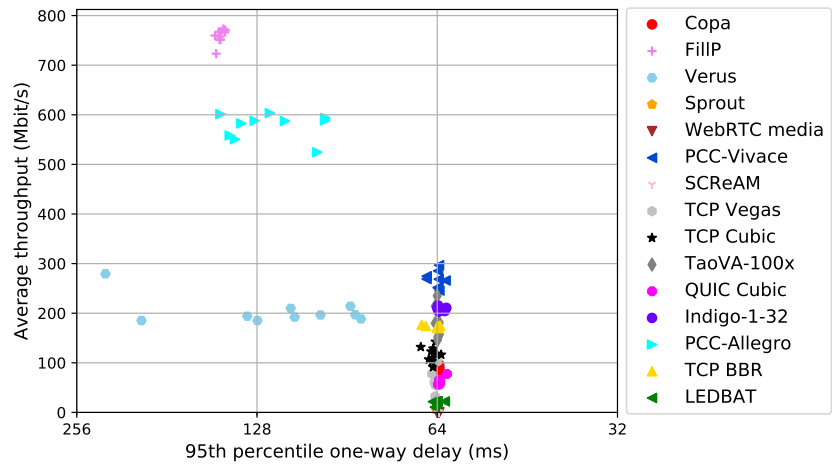
Git summary:

```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
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 @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/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 Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	173.17	64.51	0.45
TCP Cubic	10	116.97	65.20	0.42
LEDBAT	10	20.15	64.06	0.90
PCC-Allegro	10	577.81	122.91	0.86
QUIC Cubic	10	62.18	63.30	0.57
SCReAM	10	0.22	63.70	0.41
WebRTC media	10	0.06	63.69	0.00
Sprout	10	6.60	64.05	0.44
TaoVA-100x	10	183.36	63.92	0.44
TCP Vegas	10	63.05	64.30	0.39
Verus	10	204.17	127.59	1.57
Copa	10	84.73	63.64	0.34
FillP	10	758.87	147.38	5.02
Indigo-1-32	10	209.24	63.41	0.46
PCC-Vivace	10	262.03	64.17	0.51
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 18:51:31

End at: 2018-04-17 18:52:01

Below is generated by plot.py at 2018-04-17 23:15:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.10 Mbit/s

95th percentile per-packet one-way delay: 63.311 ms

Loss rate: 0.43%

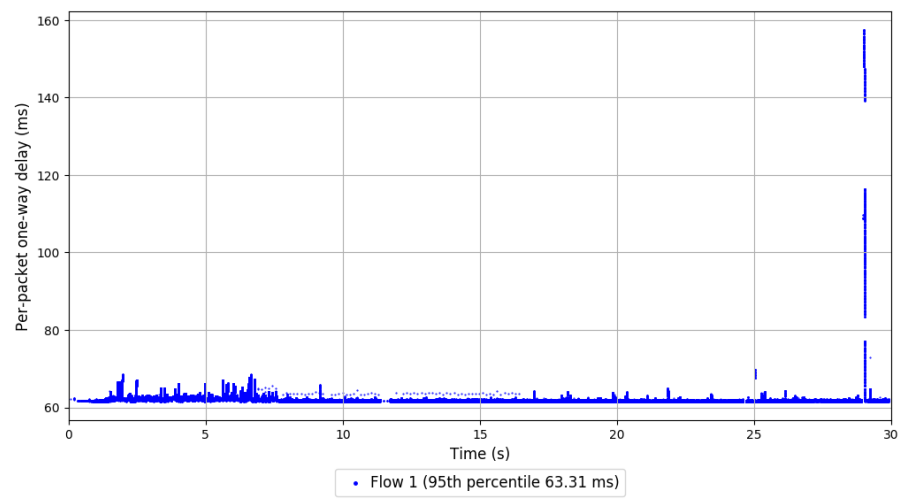
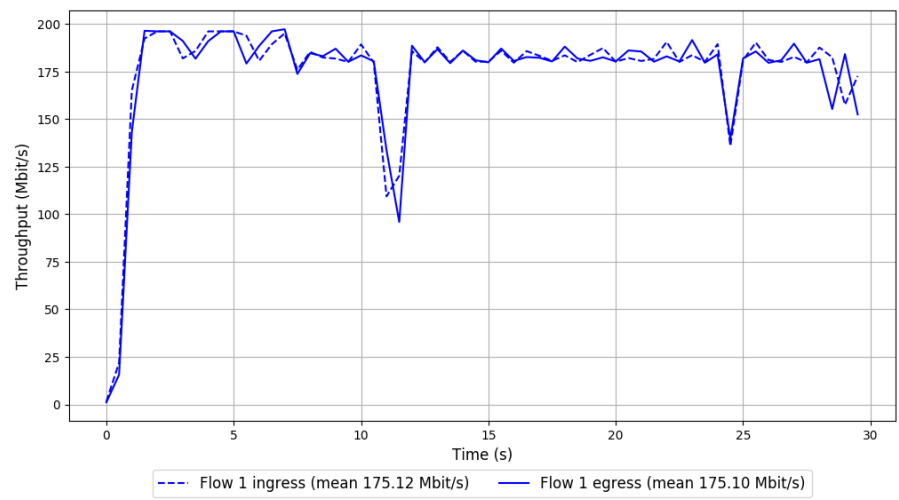
-- Flow 1:

Average throughput: 175.10 Mbit/s

95th percentile per-packet one-way delay: 63.311 ms

Loss rate: 0.43%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-17 19:04:40

End at: 2018-04-17 19:05:10

Below is generated by plot.py at 2018-04-17 23:15:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.61 Mbit/s

95th percentile per-packet one-way delay: 64.012 ms

Loss rate: 0.46%

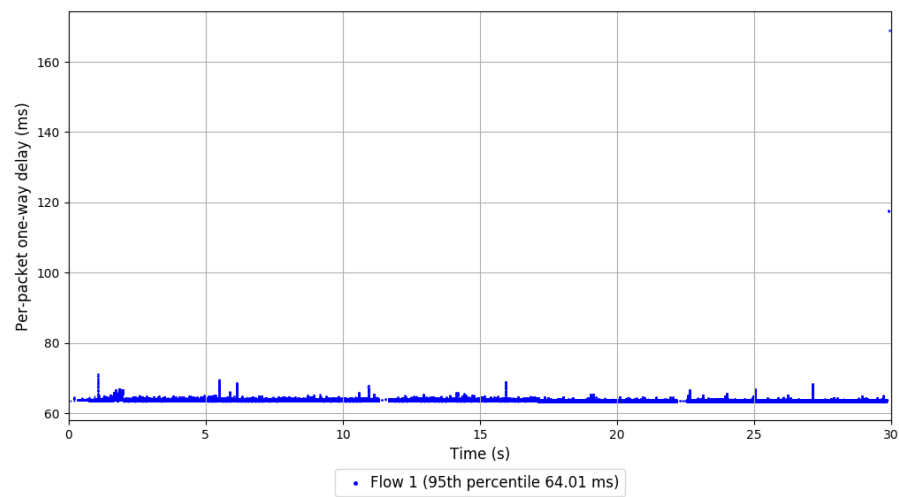
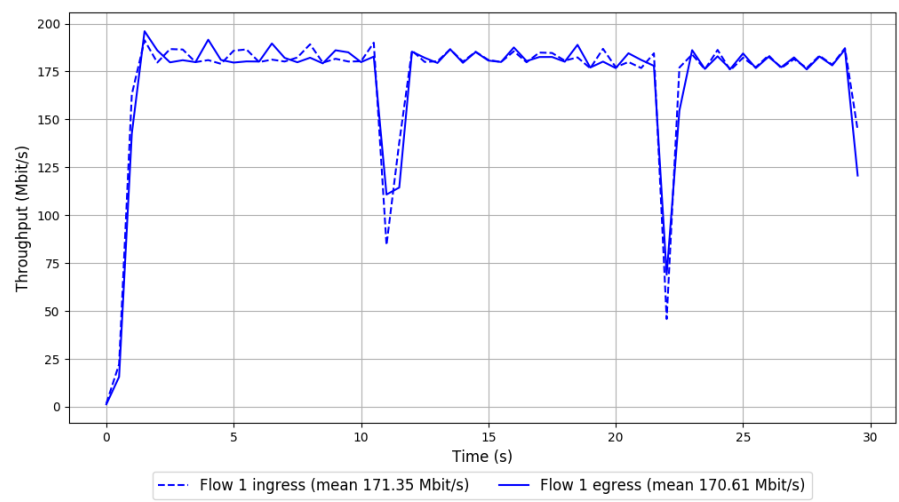
-- Flow 1:

Average throughput: 170.61 Mbit/s

95th percentile per-packet one-way delay: 64.012 ms

Loss rate: 0.46%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-17 19:17:45

End at: 2018-04-17 19:18:15

Below is generated by plot.py at 2018-04-17 23:15:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.70 Mbit/s

95th percentile per-packet one-way delay: 63.753 ms

Loss rate: 0.46%

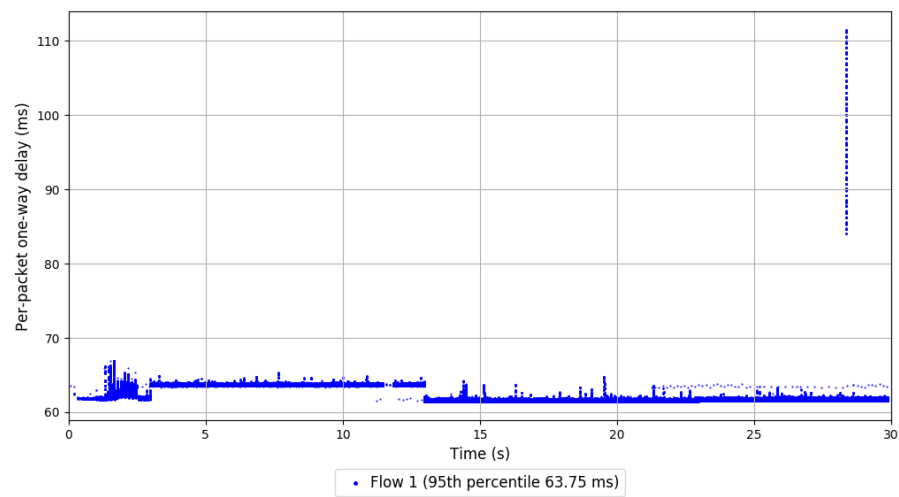
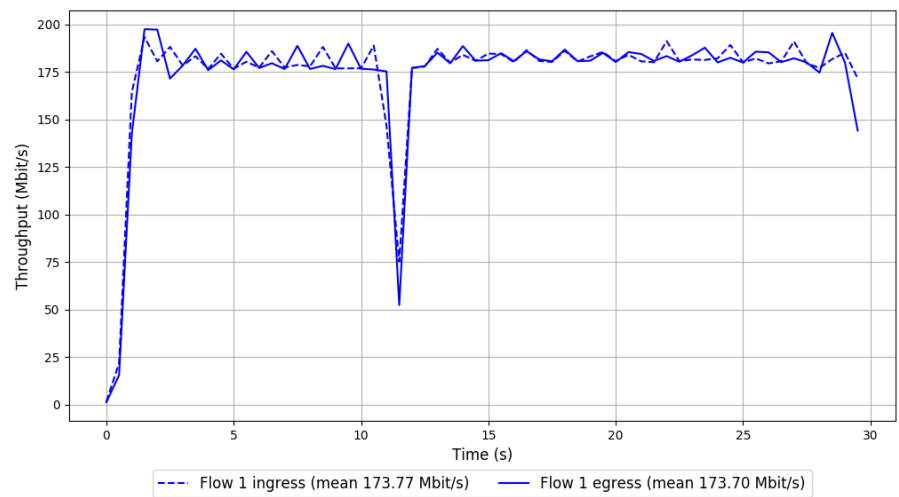
-- Flow 1:

Average throughput: 173.70 Mbit/s

95th percentile per-packet one-way delay: 63.753 ms

Loss rate: 0.46%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-17 19:30:50

End at: 2018-04-17 19:31:20

Below is generated by plot.py at 2018-04-17 23:15:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.65 Mbit/s

95th percentile per-packet one-way delay: 63.487 ms

Loss rate: 0.43%

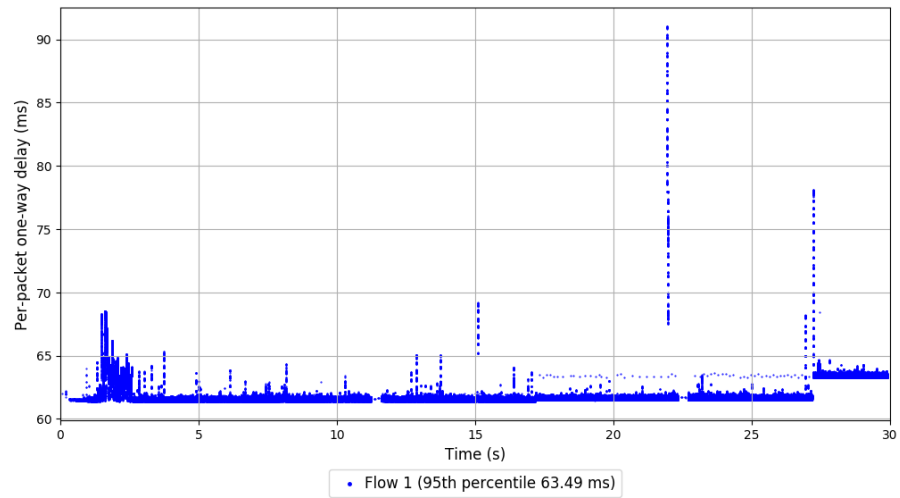
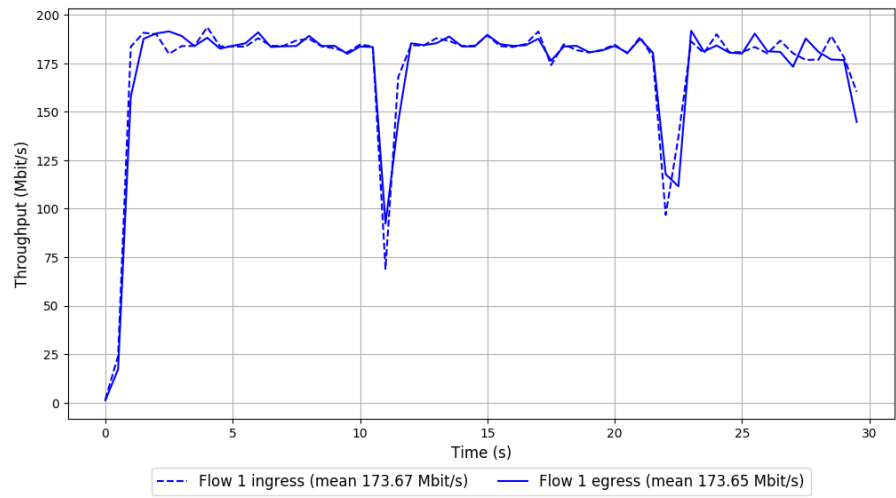
-- Flow 1:

Average throughput: 173.65 Mbit/s

95th percentile per-packet one-way delay: 63.487 ms

Loss rate: 0.43%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 19:43:59

End at: 2018-04-17 19:44:29

Below is generated by plot.py at 2018-04-17 23:15:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.98 Mbit/s

95th percentile per-packet one-way delay: 63.757 ms

Loss rate: 0.44%

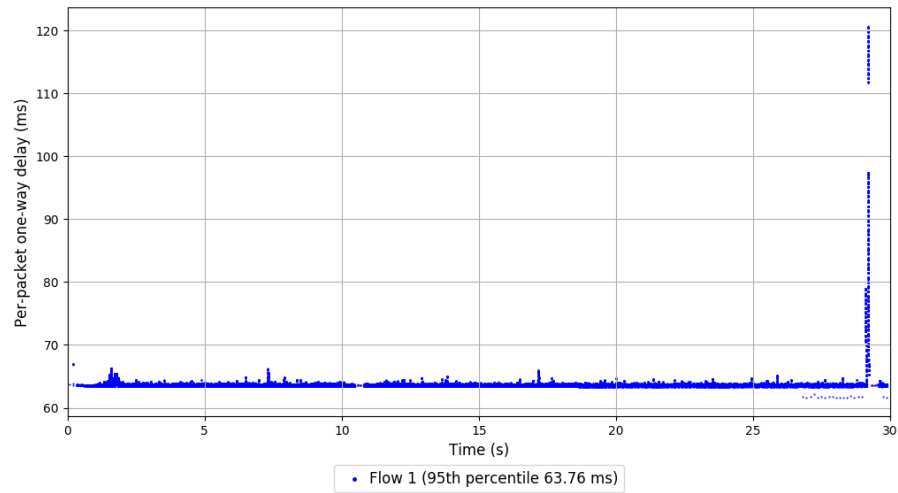
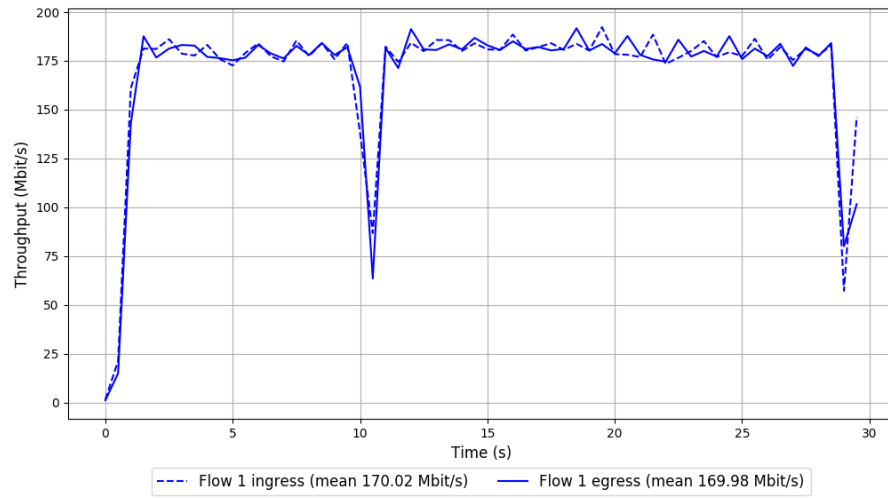
-- Flow 1:

Average throughput: 169.98 Mbit/s

95th percentile per-packet one-way delay: 63.757 ms

Loss rate: 0.44%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-17 19:57:06

End at: 2018-04-17 19:57:36

Below is generated by plot.py at 2018-04-17 23:15:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.05 Mbit/s

95th percentile per-packet one-way delay: 64.091 ms

Loss rate: 0.43%

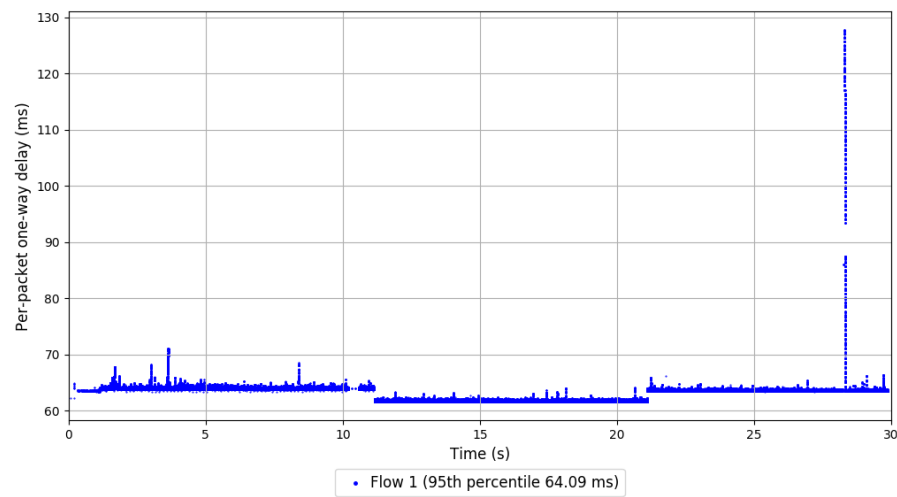
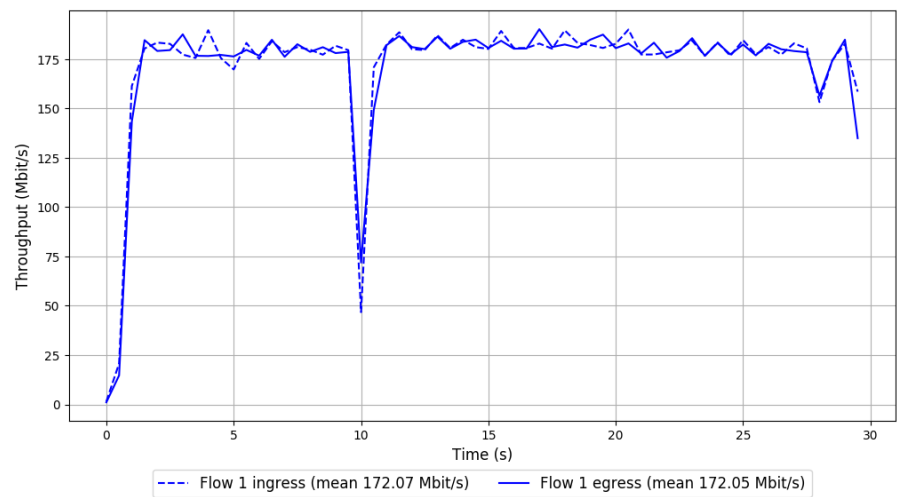
-- Flow 1:

Average throughput: 172.05 Mbit/s

95th percentile per-packet one-way delay: 64.091 ms

Loss rate: 0.43%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 20:10:07

End at: 2018-04-17 20:10:37

Below is generated by plot.py at 2018-04-17 23:15:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.18 Mbit/s

95th percentile per-packet one-way delay: 66.875 ms

Loss rate: 0.46%

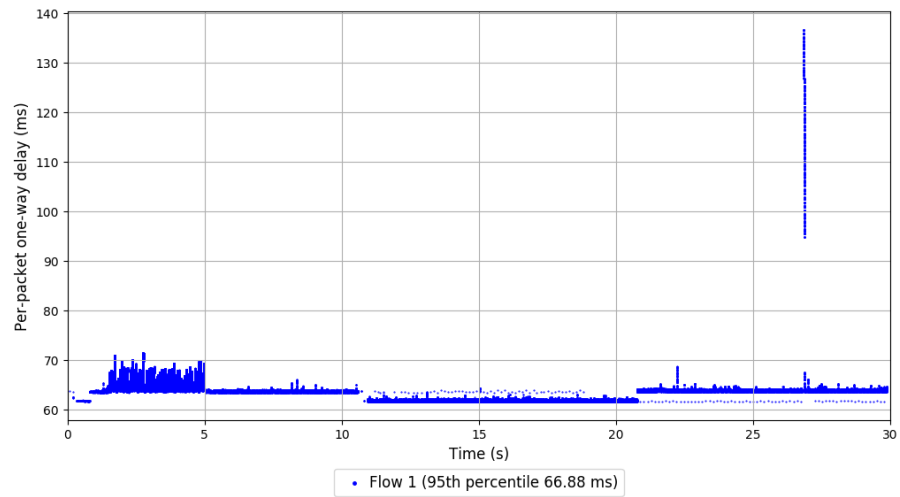
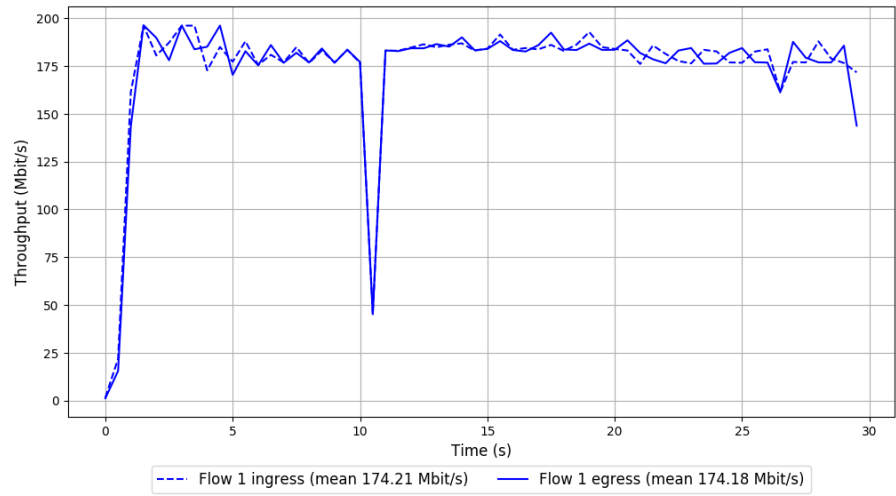
-- Flow 1:

Average throughput: 174.18 Mbit/s

95th percentile per-packet one-way delay: 66.875 ms

Loss rate: 0.46%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 20:23:09

End at: 2018-04-17 20:23:39

Below is generated by plot.py at 2018-04-17 23:15:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.87 Mbit/s

95th percentile per-packet one-way delay: 67.950 ms

Loss rate: 0.46%

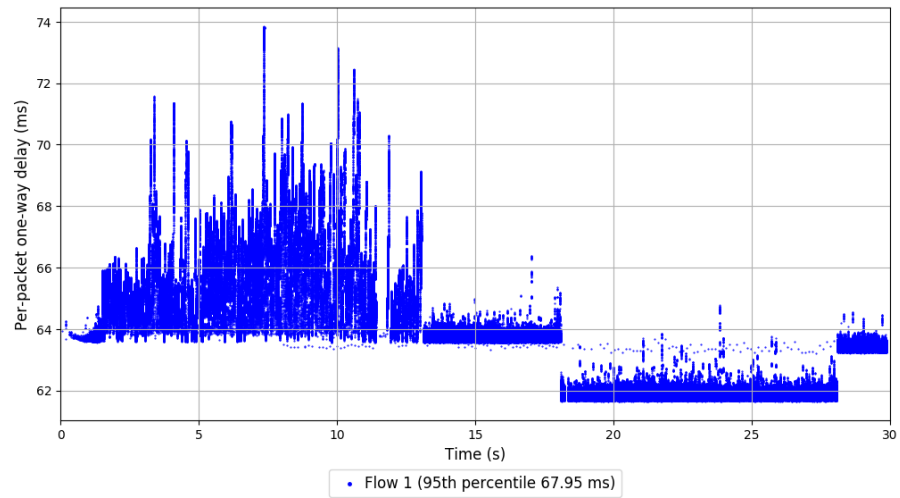
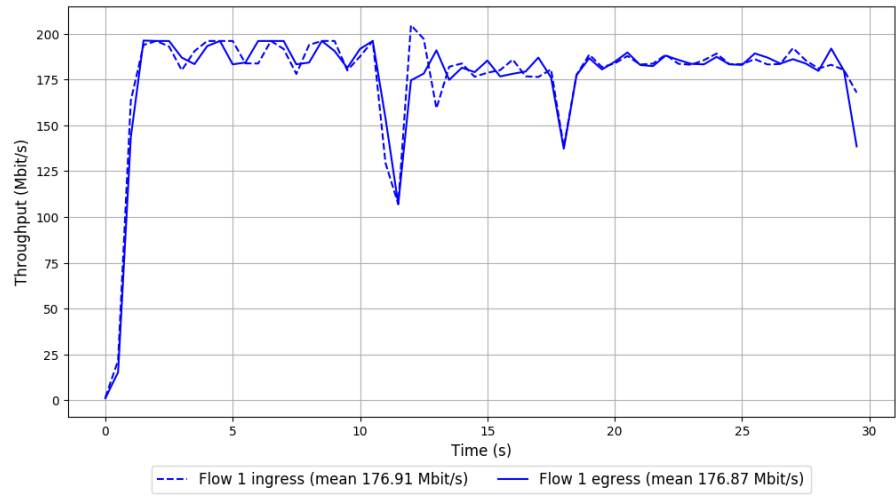
-- Flow 1:

Average throughput: 176.87 Mbit/s

95th percentile per-packet one-way delay: 67.950 ms

Loss rate: 0.46%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 20:36:14

End at: 2018-04-17 20:36:44

Below is generated by plot.py at 2018-04-17 23:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.67 Mbit/s

95th percentile per-packet one-way delay: 63.915 ms

Loss rate: 0.45%

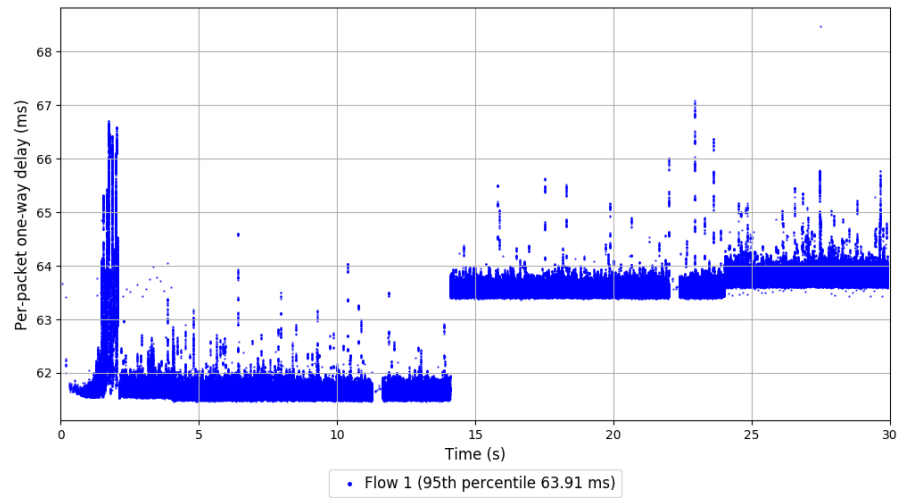
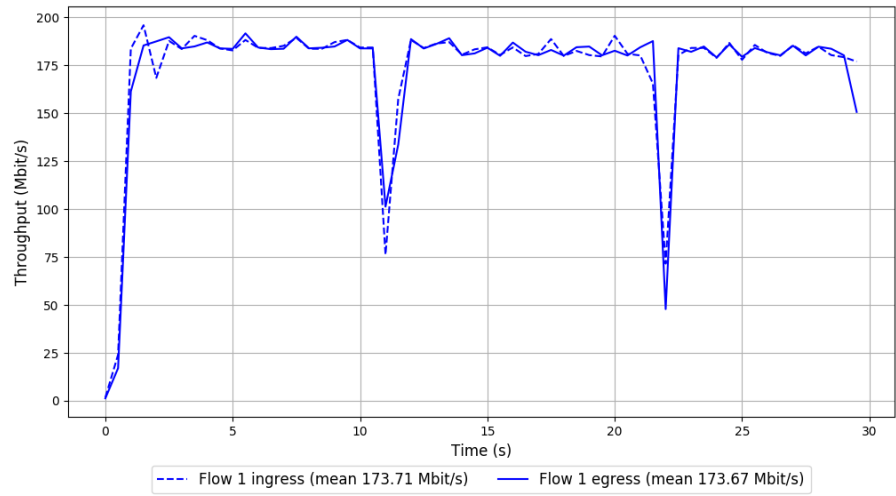
-- Flow 1:

Average throughput: 173.67 Mbit/s

95th percentile per-packet one-way delay: 63.915 ms

Loss rate: 0.45%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 20:49:23

End at: 2018-04-17 20:49:53

Below is generated by plot.py at 2018-04-17 23:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.88 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 0.43%

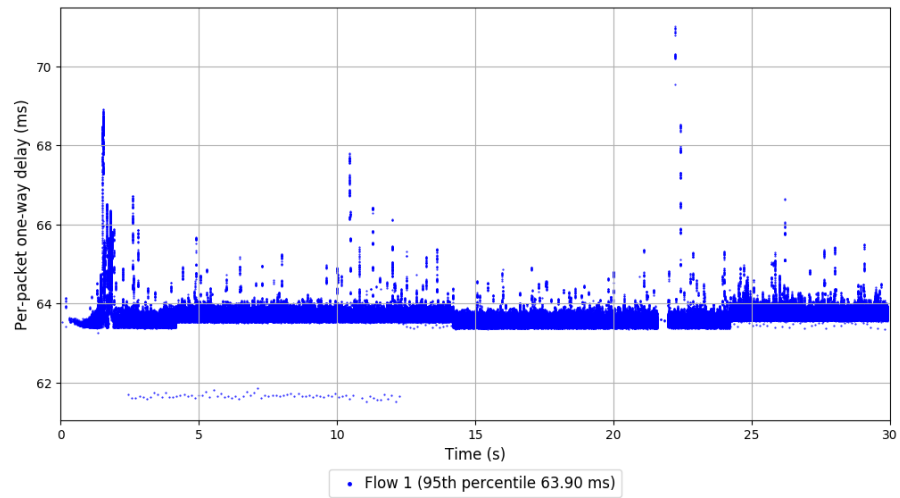
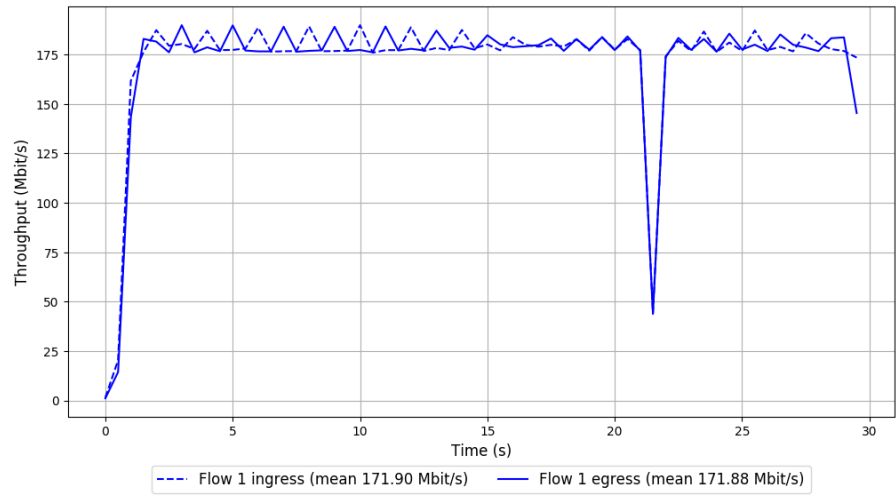
-- Flow 1:

Average throughput: 171.88 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 0.43%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 18:57:44

End at: 2018-04-17 18:58:14

Below is generated by plot.py at 2018-04-17 23:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.61 Mbit/s

95th percentile per-packet one-way delay: 66.117 ms

Loss rate: 0.48%

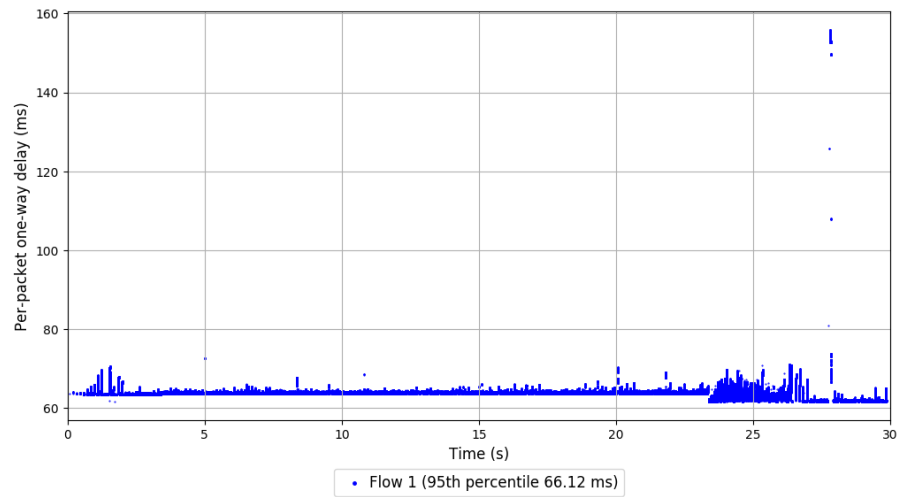
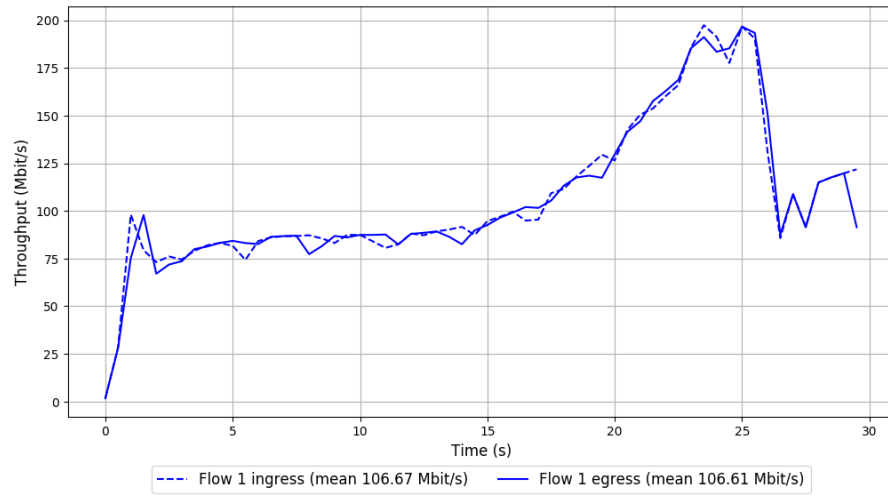
-- Flow 1:

Average throughput: 106.61 Mbit/s

95th percentile per-packet one-way delay: 66.117 ms

Loss rate: 0.48%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 19:10:50

End at: 2018-04-17 19:11:20

Below is generated by plot.py at 2018-04-17 23:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.32 Mbit/s

95th percentile per-packet one-way delay: 63.049 ms

Loss rate: 0.67%

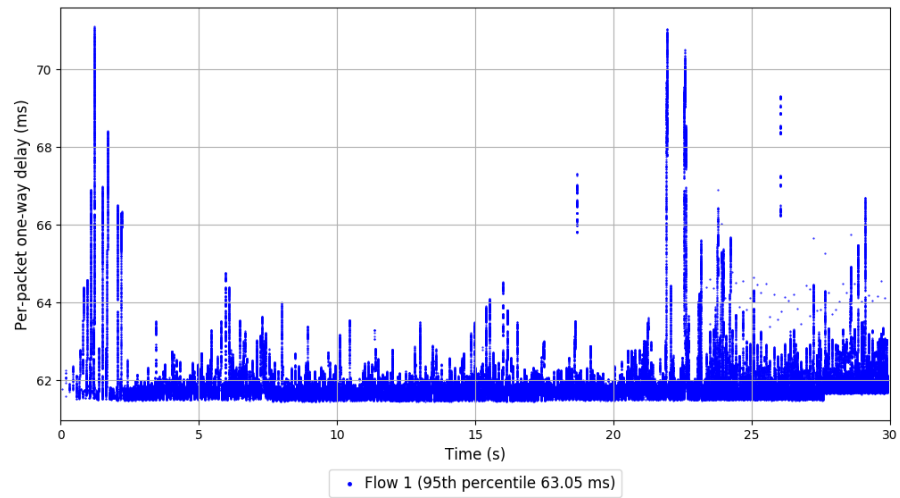
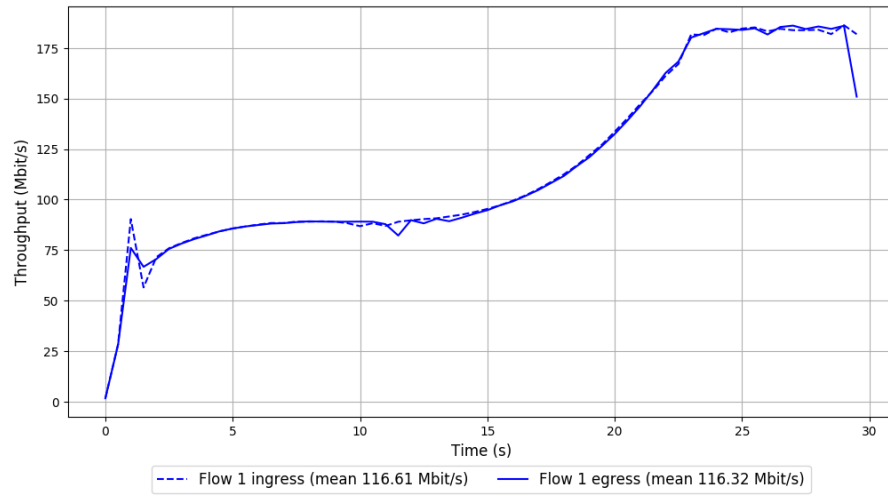
-- Flow 1:

Average throughput: 116.32 Mbit/s

95th percentile per-packet one-way delay: 63.049 ms

Loss rate: 0.67%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 19:23:55

End at: 2018-04-17 19:24:25

Below is generated by plot.py at 2018-04-17 23:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.91 Mbit/s

95th percentile per-packet one-way delay: 64.099 ms

Loss rate: 0.40%

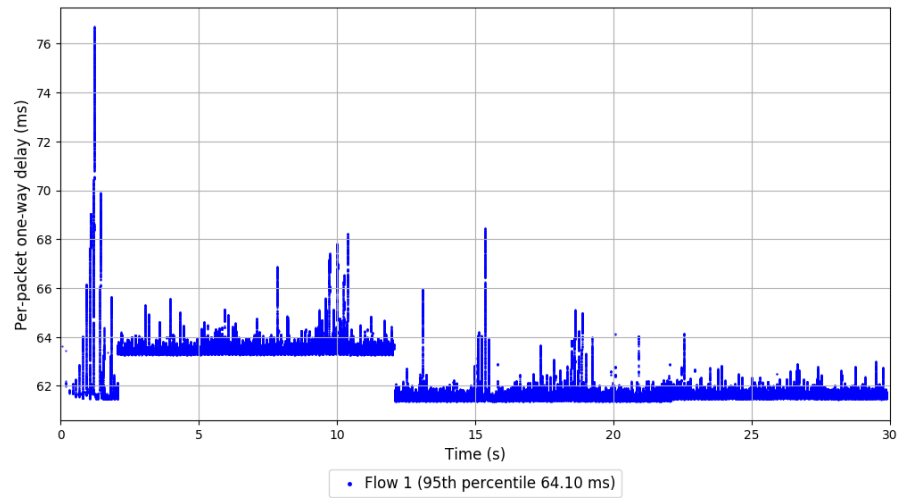
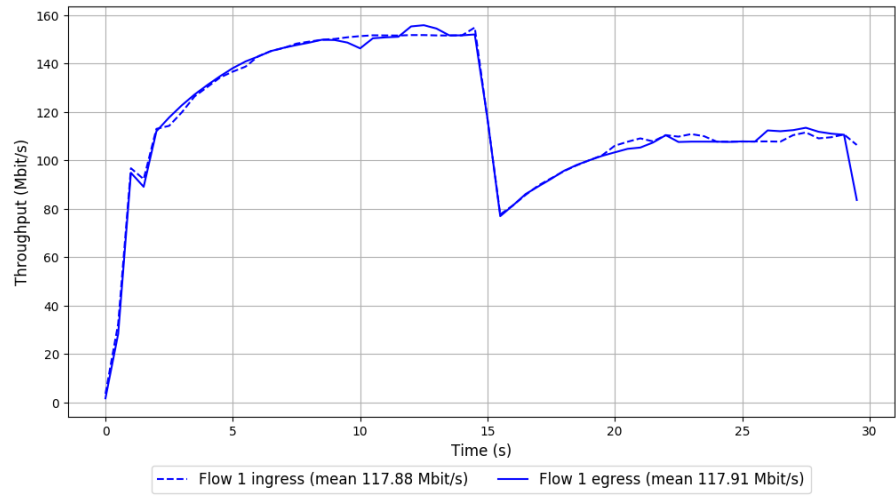
-- Flow 1:

Average throughput: 117.91 Mbit/s

95th percentile per-packet one-way delay: 64.099 ms

Loss rate: 0.40%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 19:37:03

End at: 2018-04-17 19:37:33

Below is generated by plot.py at 2018-04-17 23:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.48 Mbit/s

95th percentile per-packet one-way delay: 65.292 ms

Loss rate: 0.32%

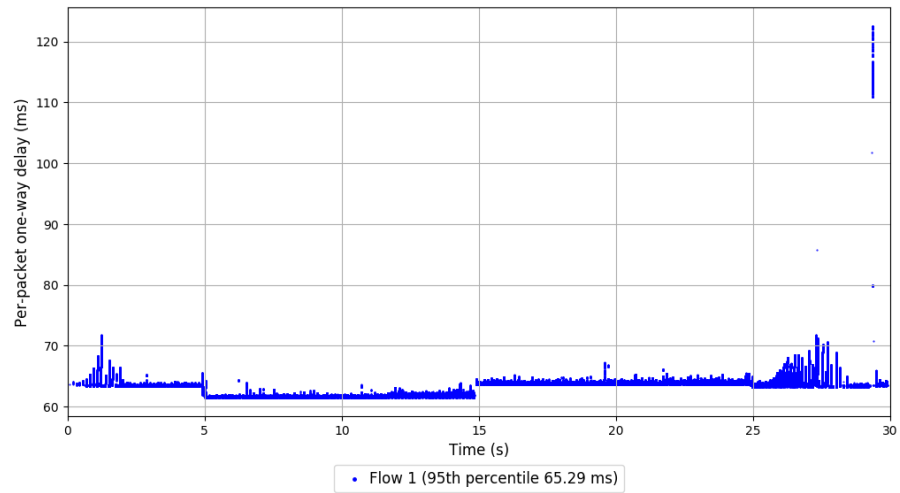
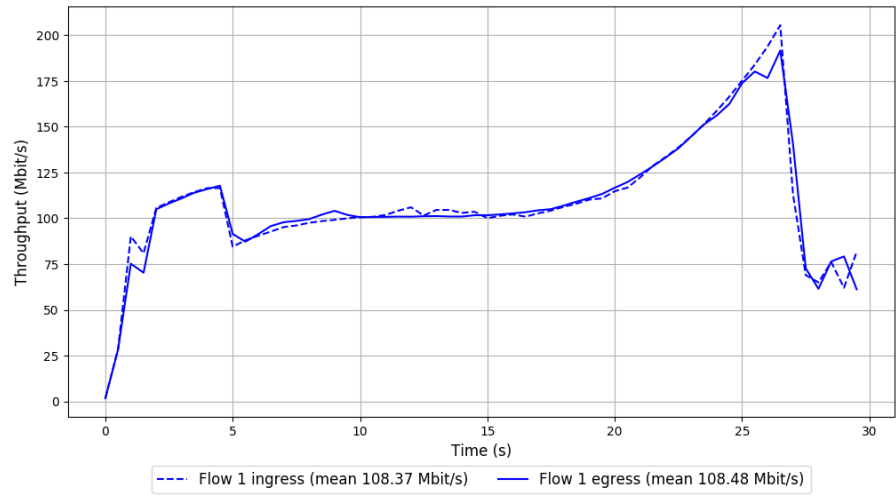
-- Flow 1:

Average throughput: 108.48 Mbit/s

95th percentile per-packet one-way delay: 65.292 ms

Loss rate: 0.32%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 19:50:09

End at: 2018-04-17 19:50:39

Below is generated by plot.py at 2018-04-17 23:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.31 Mbit/s

95th percentile per-packet one-way delay: 65.280 ms

Loss rate: 0.51%

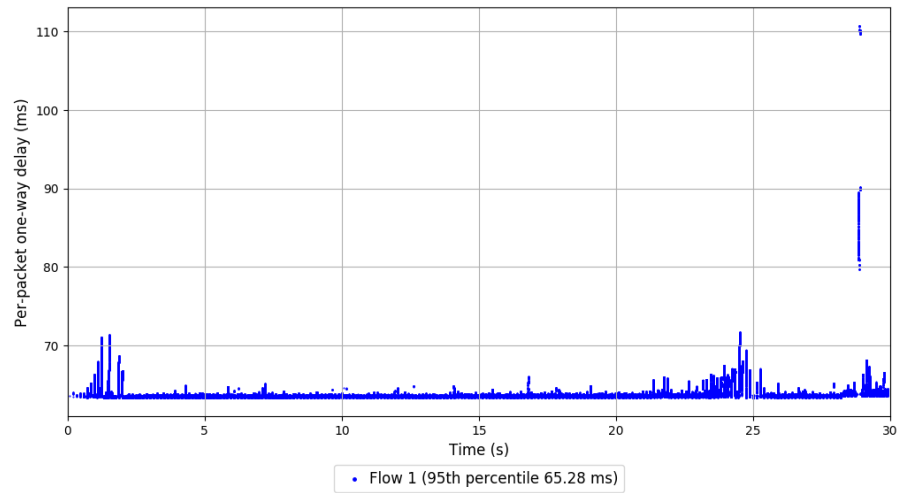
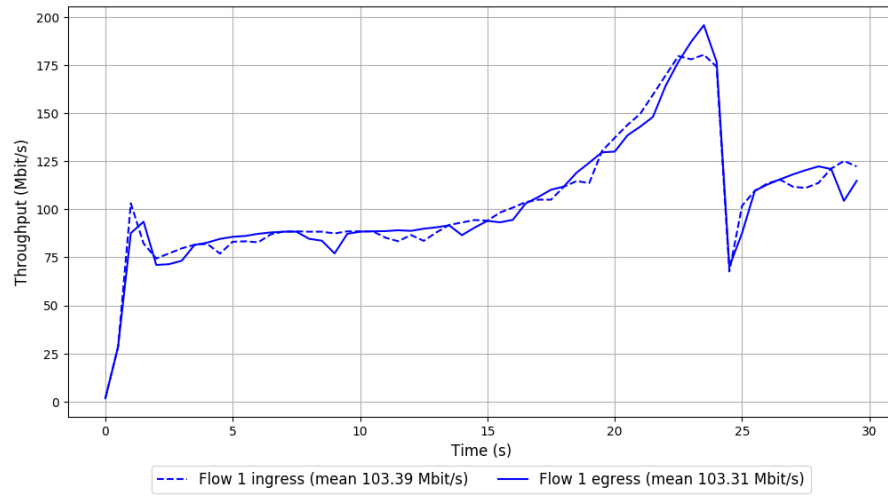
-- Flow 1:

Average throughput: 103.31 Mbit/s

95th percentile per-packet one-way delay: 65.280 ms

Loss rate: 0.51%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 20:03:13

End at: 2018-04-17 20:03:43

Below is generated by plot.py at 2018-04-17 23:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.46 Mbit/s

95th percentile per-packet one-way delay: 64.414 ms

Loss rate: 0.31%

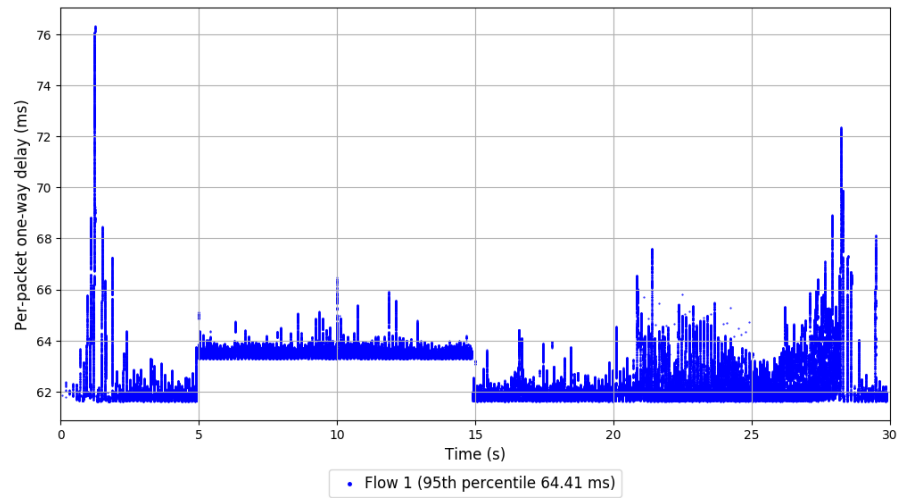
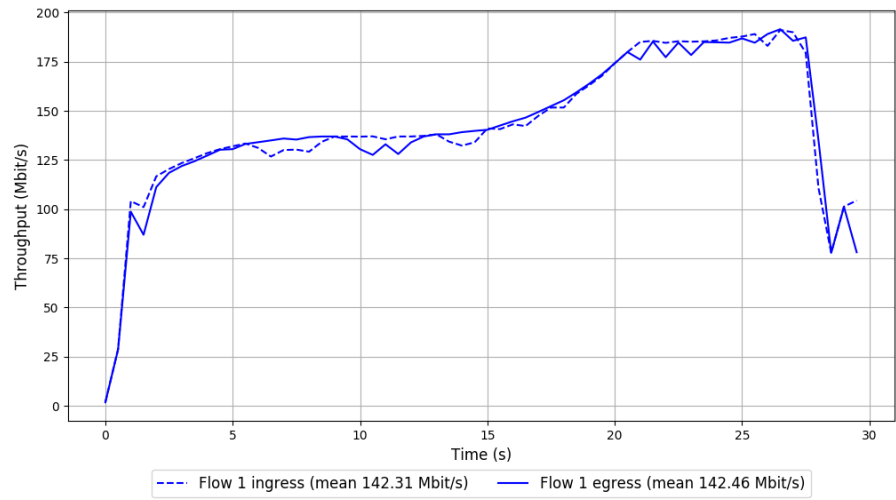
-- Flow 1:

Average throughput: 142.46 Mbit/s

95th percentile per-packet one-way delay: 64.414 ms

Loss rate: 0.31%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 20:16:11

End at: 2018-04-17 20:16:41

Below is generated by plot.py at 2018-04-17 23:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.90 Mbit/s

95th percentile per-packet one-way delay: 68.196 ms

Loss rate: 0.29%

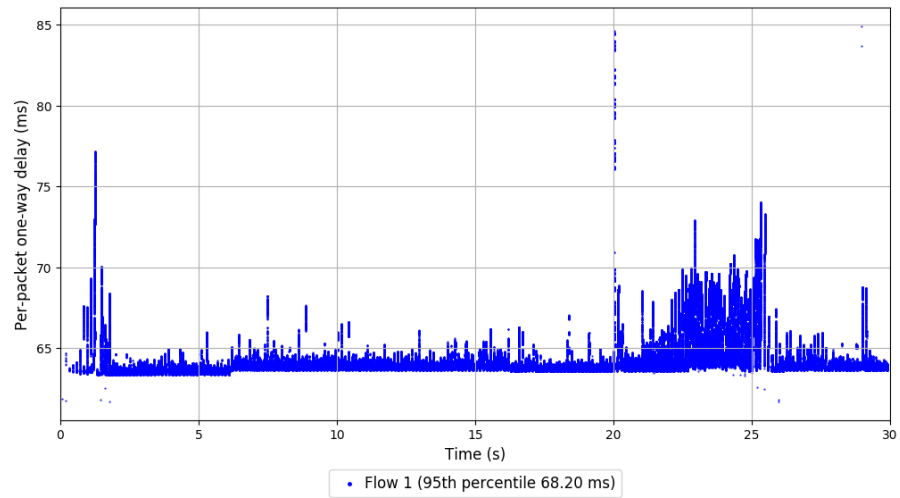
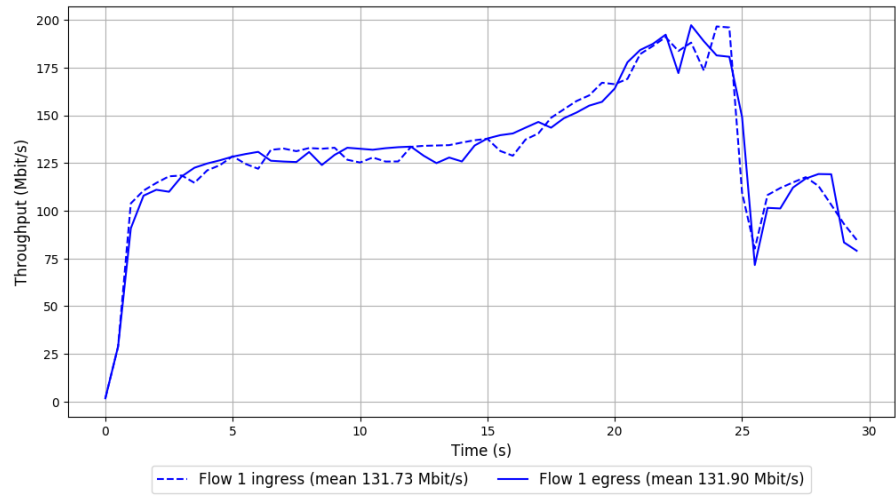
-- Flow 1:

Average throughput: 131.90 Mbit/s

95th percentile per-packet one-way delay: 68.196 ms

Loss rate: 0.29%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 20:29:17

End at: 2018-04-17 20:29:47

Below is generated by plot.py at 2018-04-17 23:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.71 Mbit/s

95th percentile per-packet one-way delay: 65.518 ms

Loss rate: 0.43%

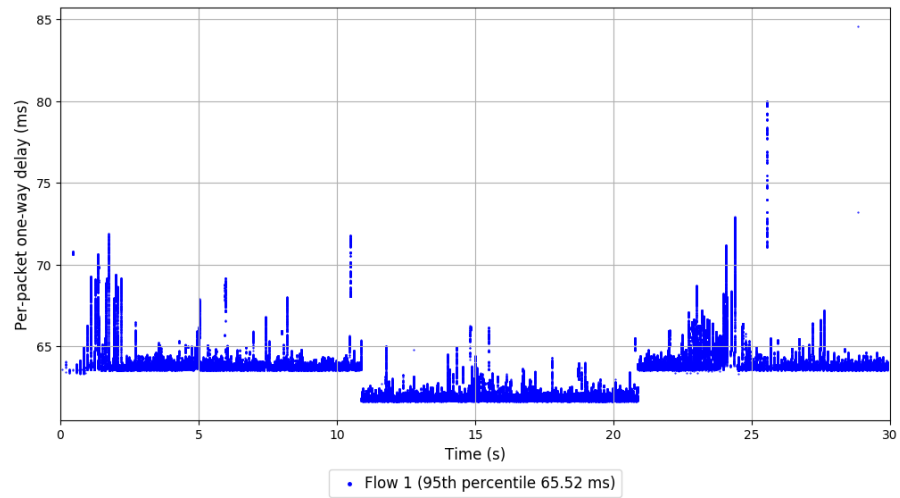
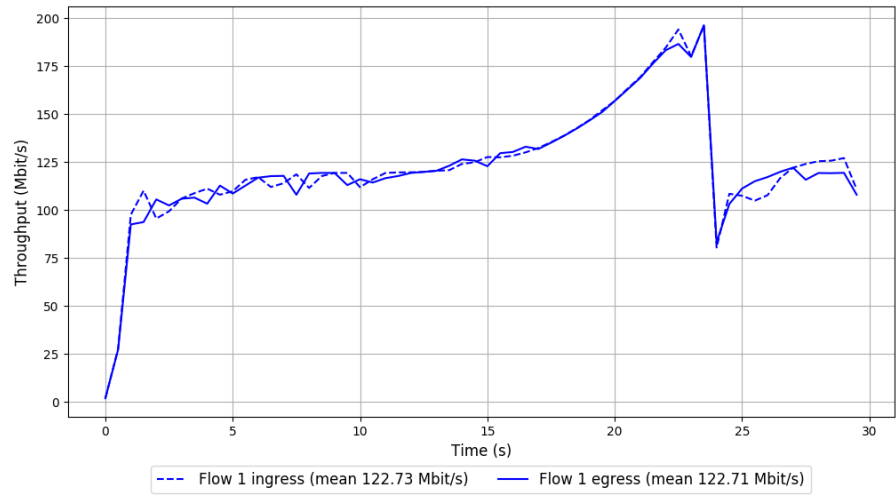
-- Flow 1:

Average throughput: 122.71 Mbit/s

95th percentile per-packet one-way delay: 65.518 ms

Loss rate: 0.43%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 20:42:26

End at: 2018-04-17 20:42:56

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.55 Mbit/s

95th percentile per-packet one-way delay: 65.008 ms

Loss rate: 0.30%

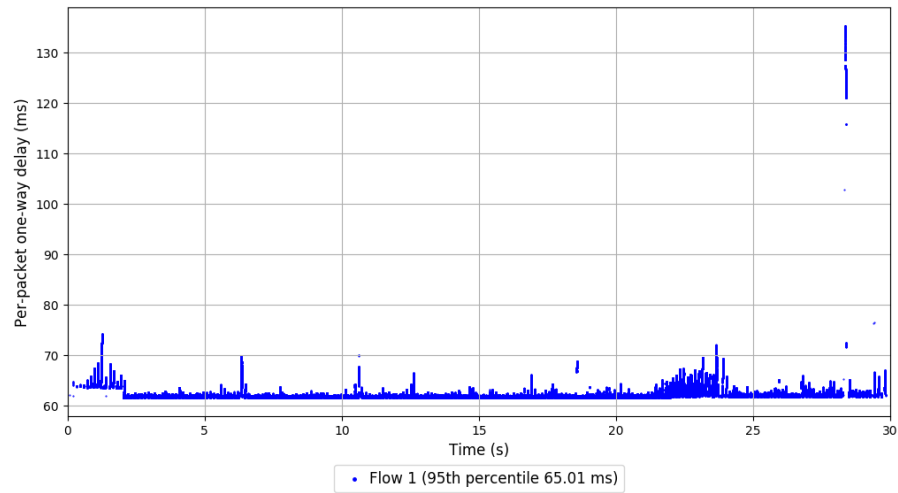
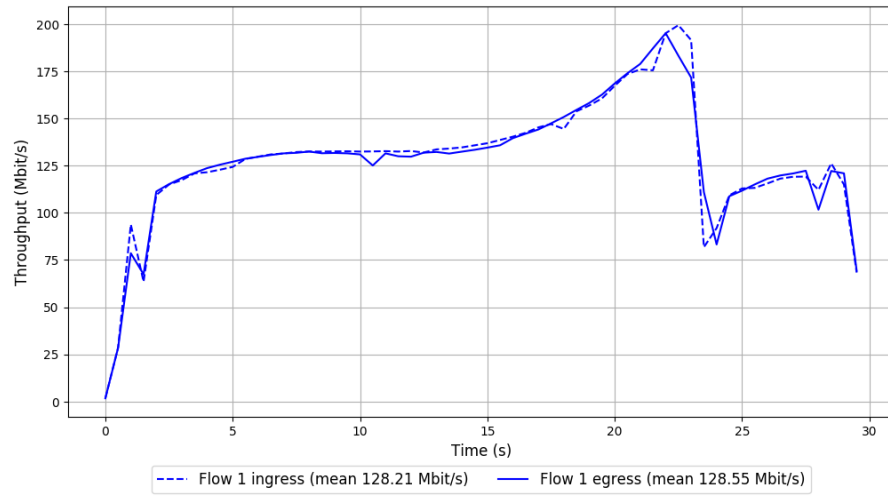
-- Flow 1:

Average throughput: 128.55 Mbit/s

95th percentile per-packet one-way delay: 65.008 ms

Loss rate: 0.30%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 20:55:28

End at: 2018-04-17 20:55:58

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 65.056 ms

Loss rate: 0.49%

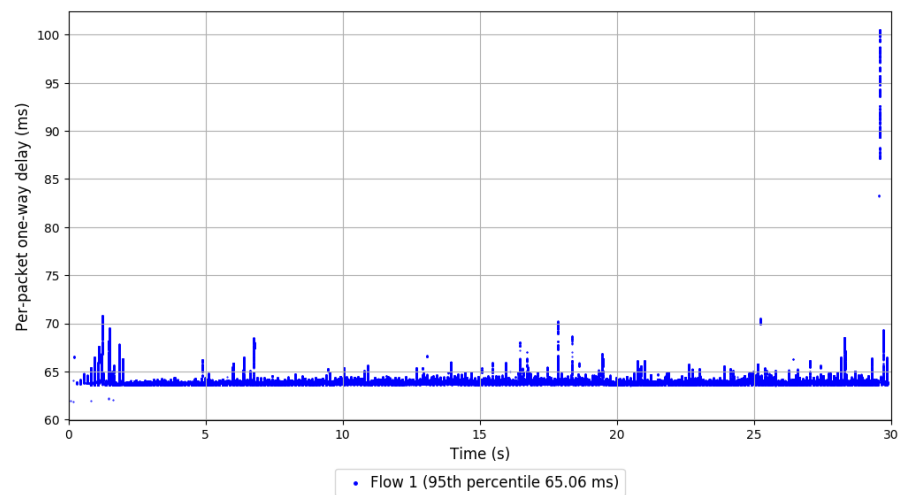
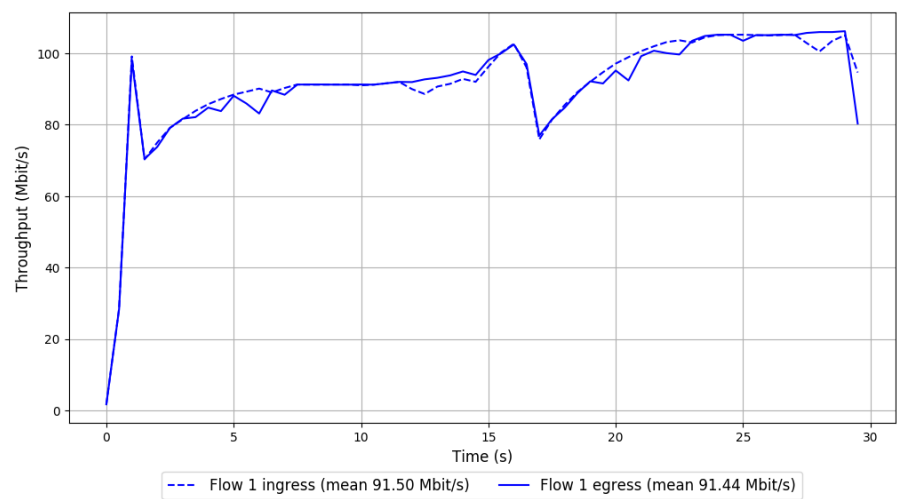
-- Flow 1:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 65.056 ms

Loss rate: 0.49%

Run 10: Report of TCP Cubic — Data Link

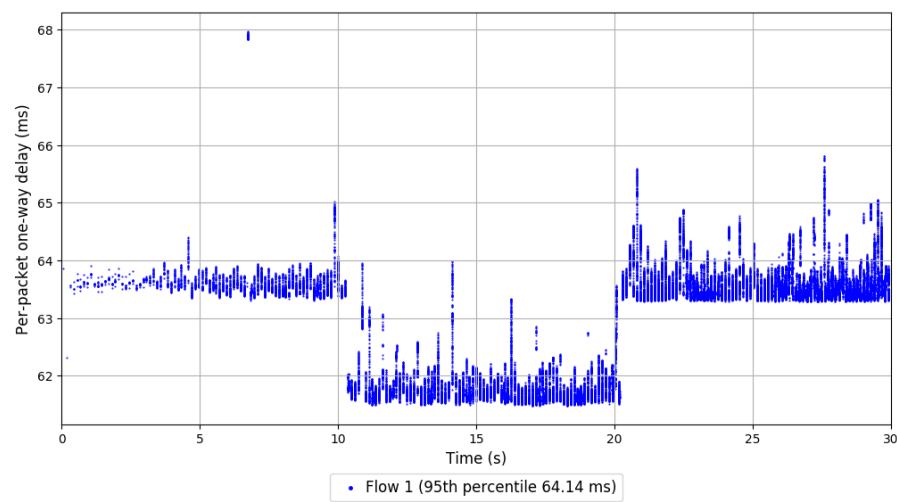
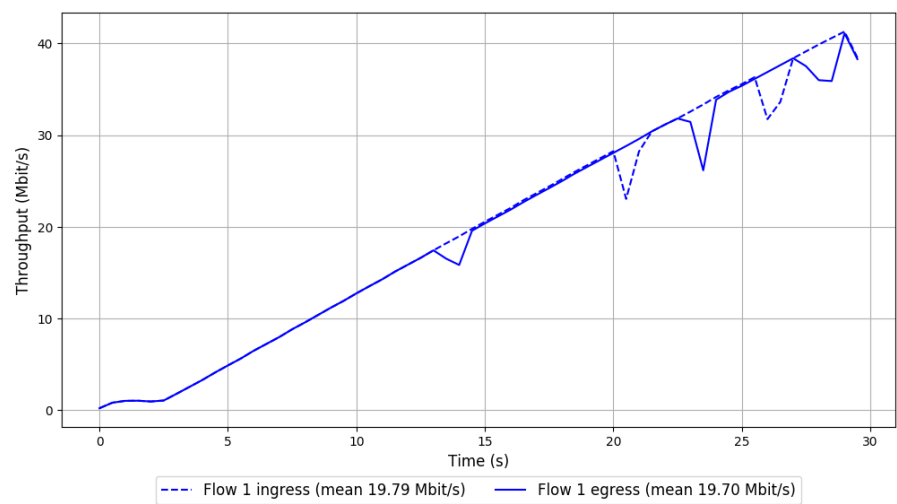


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 18:54:47
End at: 2018-04-17 18:55:17

# Below is generated by plot.py at 2018-04-17 23:19:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 64.141 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 19.70 Mbit/s
95th percentile per-packet one-way delay: 64.141 ms
Loss rate: 0.89%
```


Run 1: Report of LEDBAT — Data Link

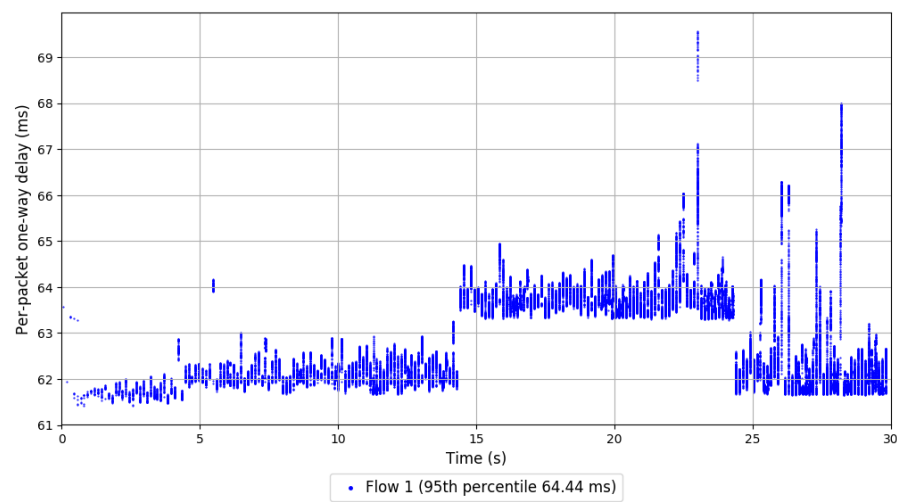
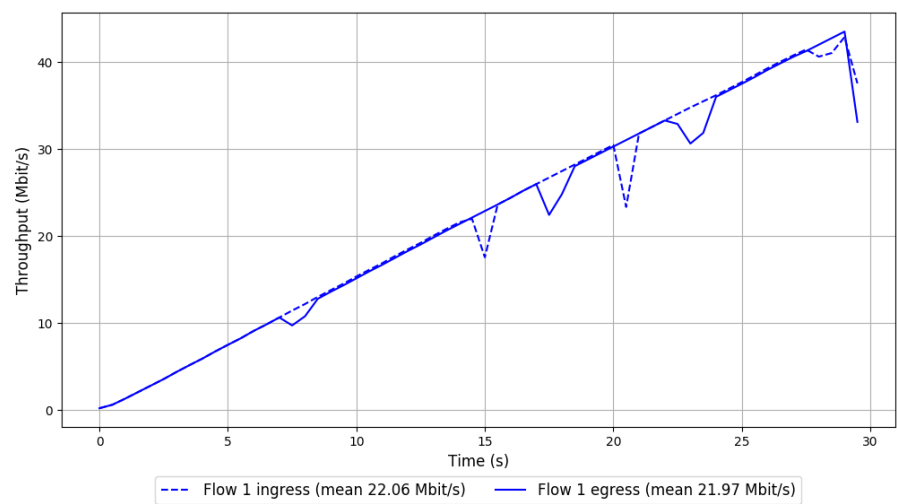


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-17 19:07:53
End at: 2018-04-17 19:08:23

# Below is generated by plot.py at 2018-04-17 23:19:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.97 Mbit/s
95th percentile per-packet one-way delay: 64.436 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 21.97 Mbit/s
95th percentile per-packet one-way delay: 64.436 ms
Loss rate: 0.84%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-17 19:20:58

End at: 2018-04-17 19:21:28

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.25 Mbit/s

95th percentile per-packet one-way delay: 63.950 ms

Loss rate: 0.84%

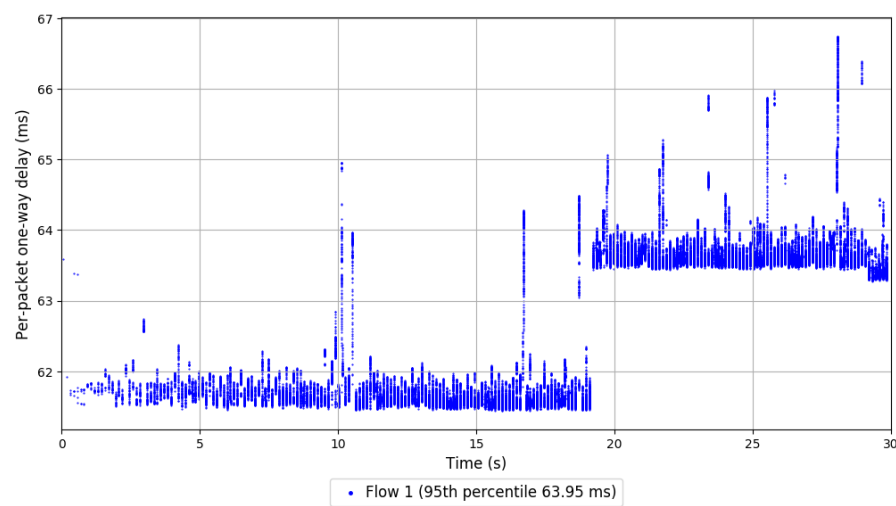
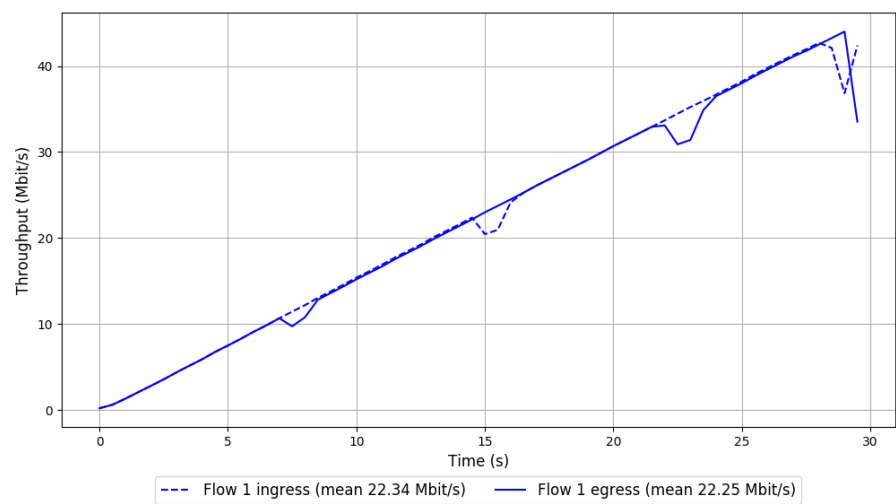
-- Flow 1:

Average throughput: 22.25 Mbit/s

95th percentile per-packet one-way delay: 63.950 ms

Loss rate: 0.84%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-17 19:34:07

End at: 2018-04-17 19:34:37

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 62.160 ms

Loss rate: 0.84%

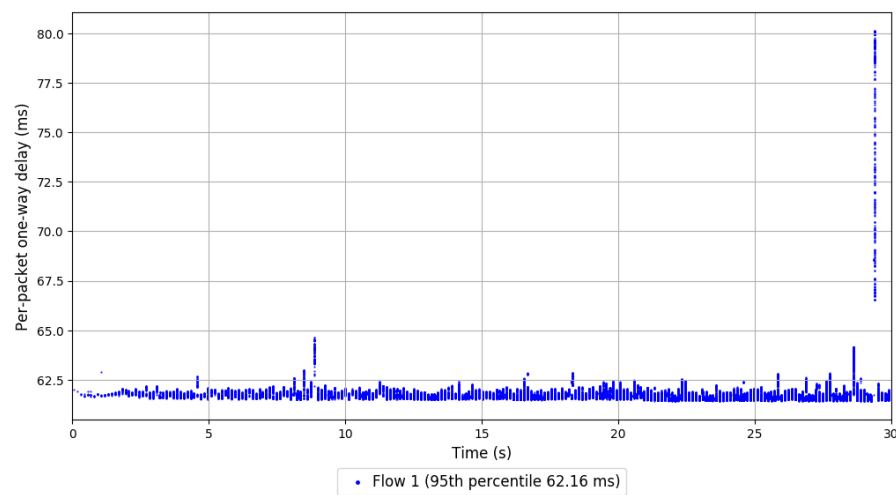
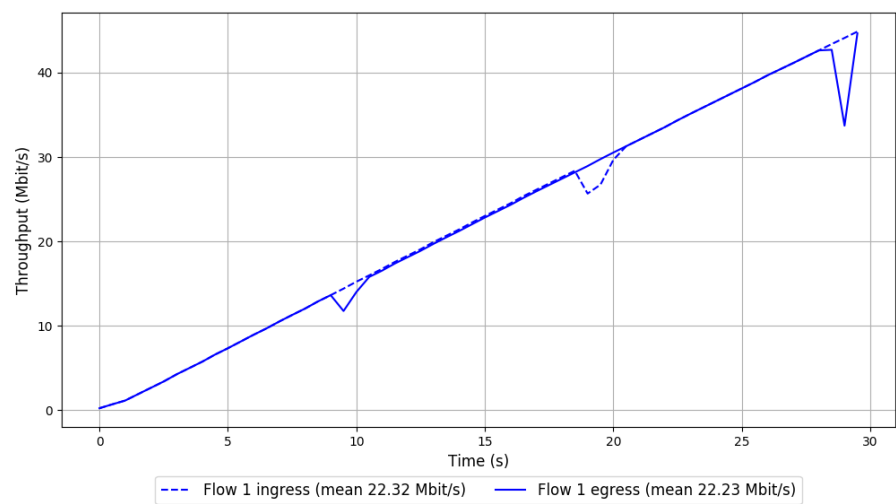
-- Flow 1:

Average throughput: 22.23 Mbit/s

95th percentile per-packet one-way delay: 62.160 ms

Loss rate: 0.84%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-17 19:47:07

End at: 2018-04-17 19:47:37

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 64.610 ms

Loss rate: 1.21%

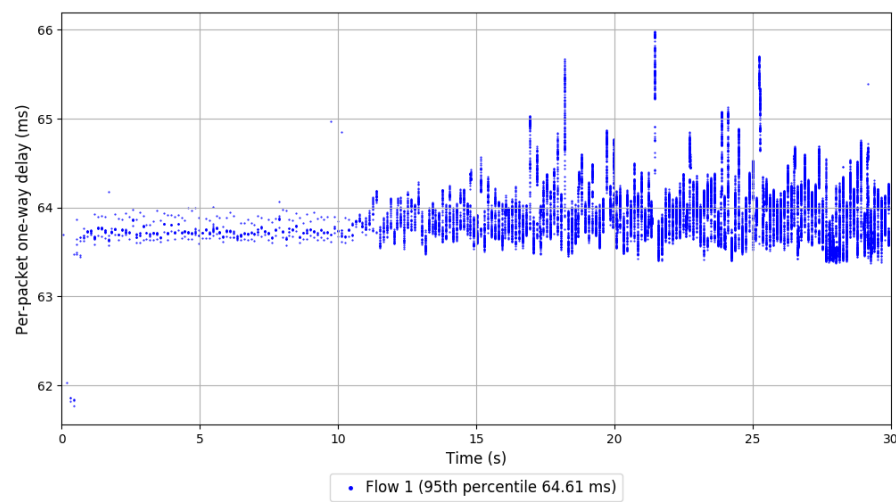
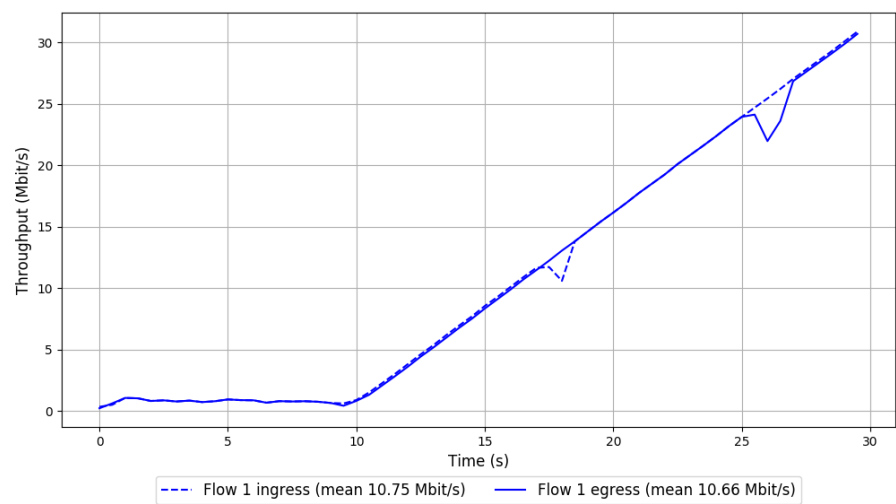
-- Flow 1:

Average throughput: 10.66 Mbit/s

95th percentile per-packet one-way delay: 64.610 ms

Loss rate: 1.21%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-17 20:00:15

End at: 2018-04-17 20:00:45

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.63 Mbit/s

95th percentile per-packet one-way delay: 65.095 ms

Loss rate: 0.85%

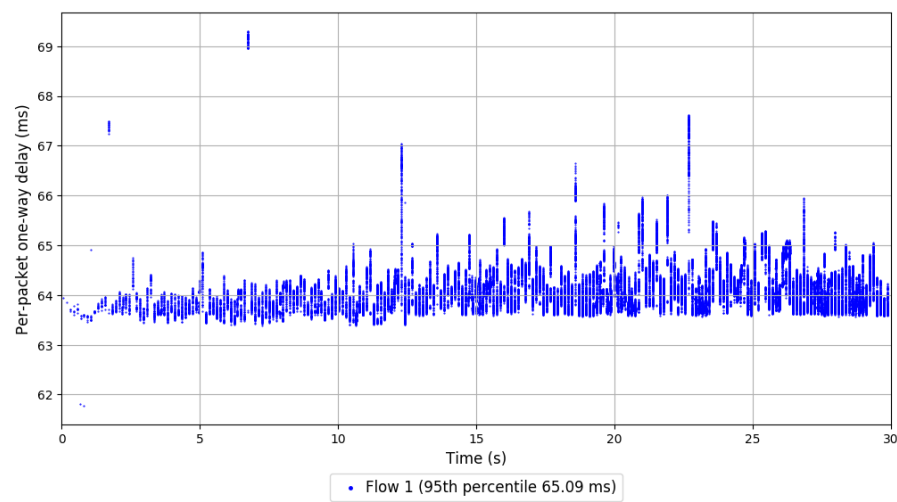
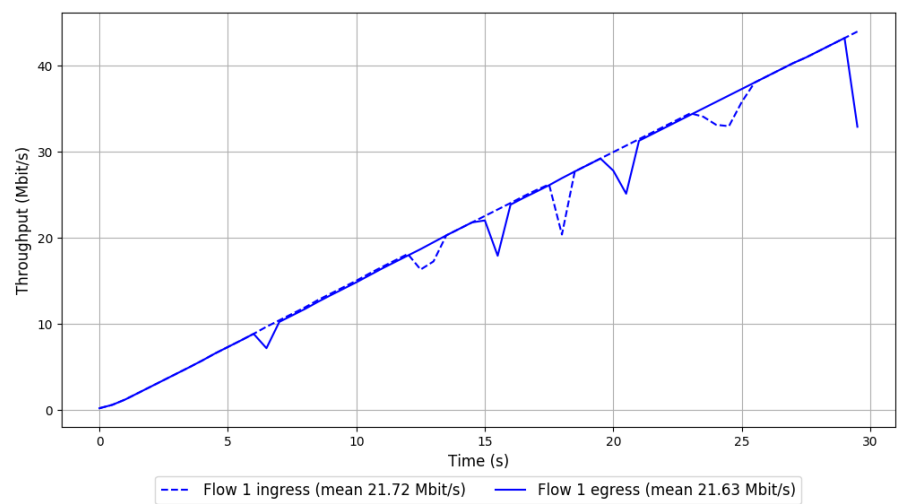
-- Flow 1:

Average throughput: 21.63 Mbit/s

95th percentile per-packet one-way delay: 65.095 ms

Loss rate: 0.85%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-17 20:13:12

End at: 2018-04-17 20:13:42

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.25 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.84%

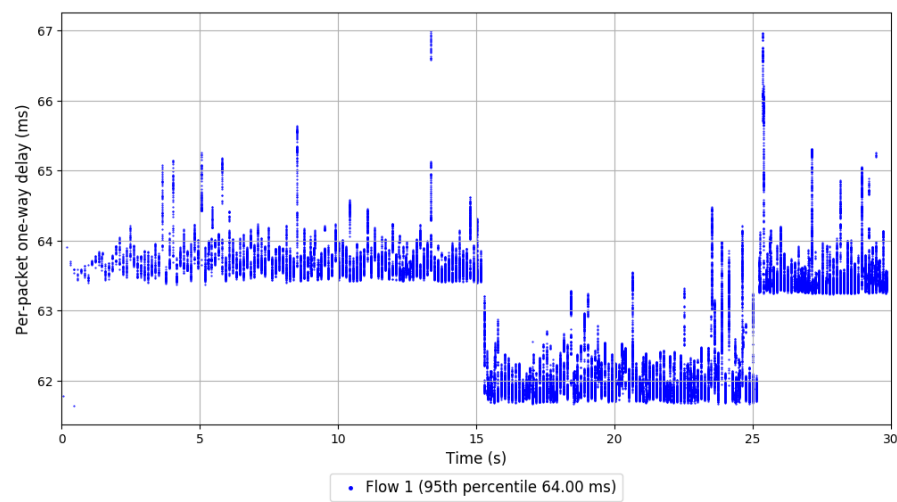
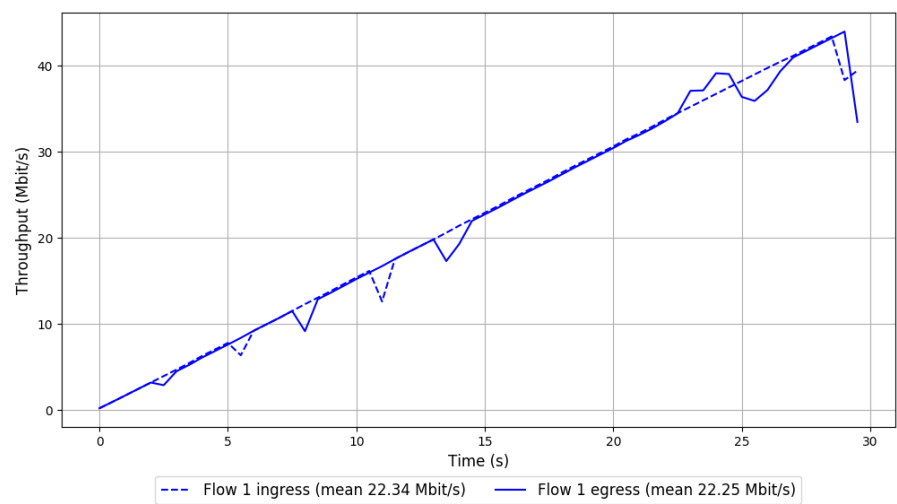
-- Flow 1:

Average throughput: 22.25 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.84%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-17 20:26:19

End at: 2018-04-17 20:26:49

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 63.974 ms

Loss rate: 0.84%

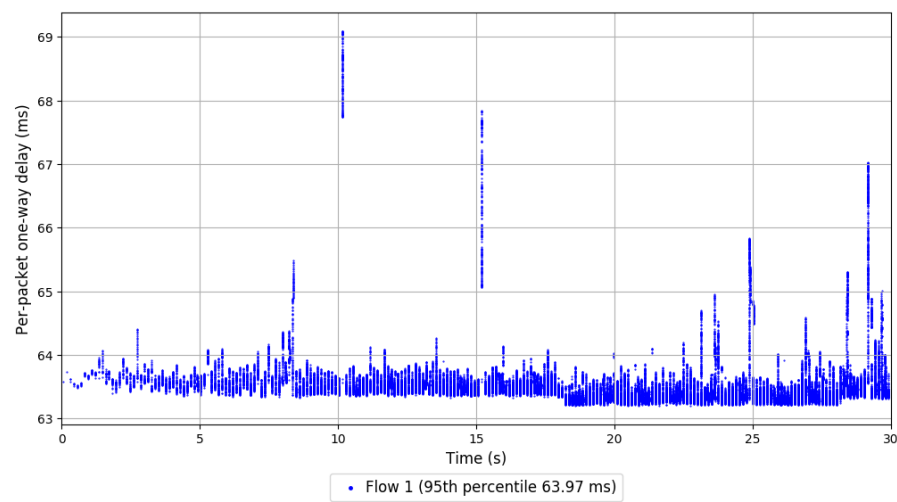
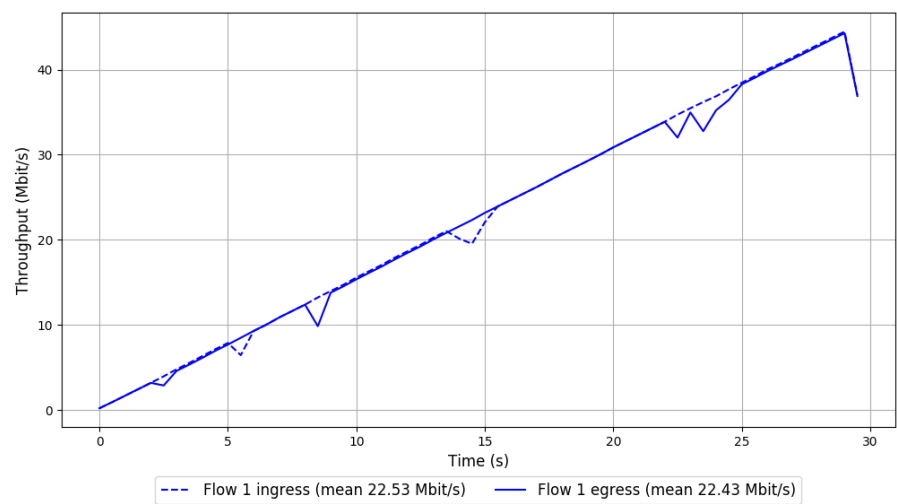
-- Flow 1:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 63.974 ms

Loss rate: 0.84%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-17 20:39:28

End at: 2018-04-17 20:39:58

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 64.160 ms

Loss rate: 0.85%

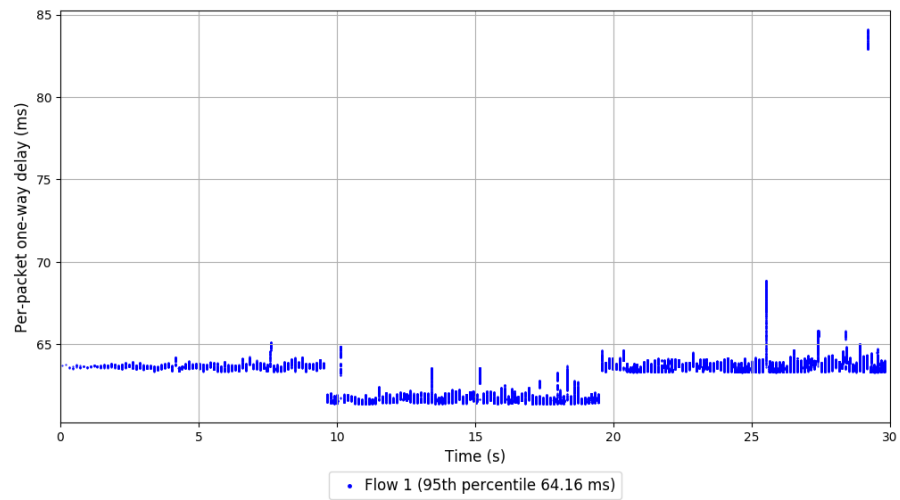
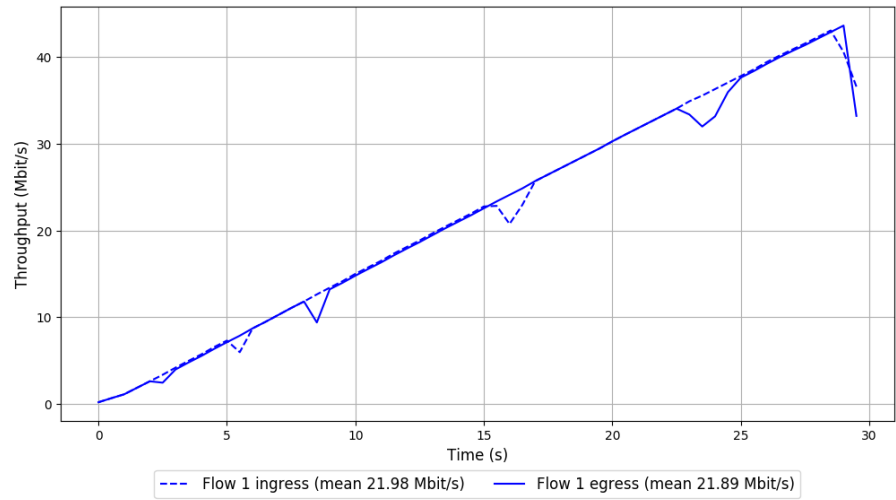
-- Flow 1:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 64.160 ms

Loss rate: 0.85%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-17 20:52:31

End at: 2018-04-17 20:53:01

Below is generated by plot.py at 2018-04-17 23:19:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.46 Mbit/s

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

Loss rate: 0.98%

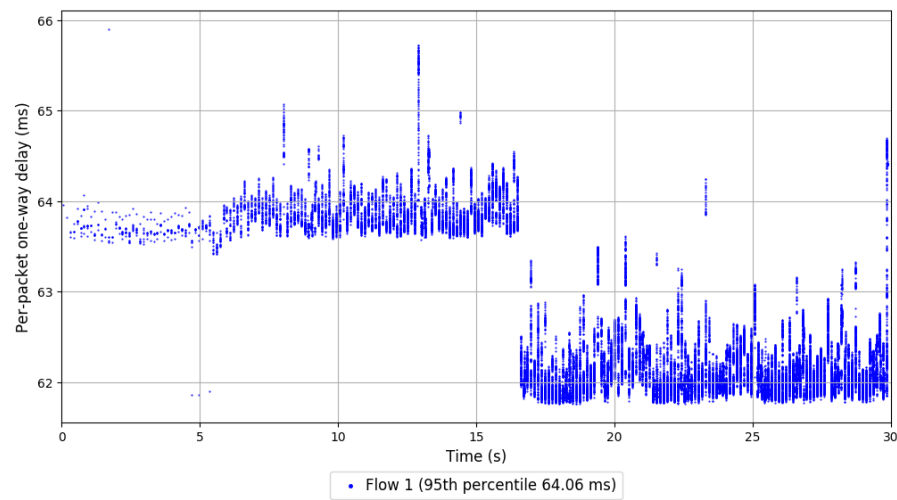
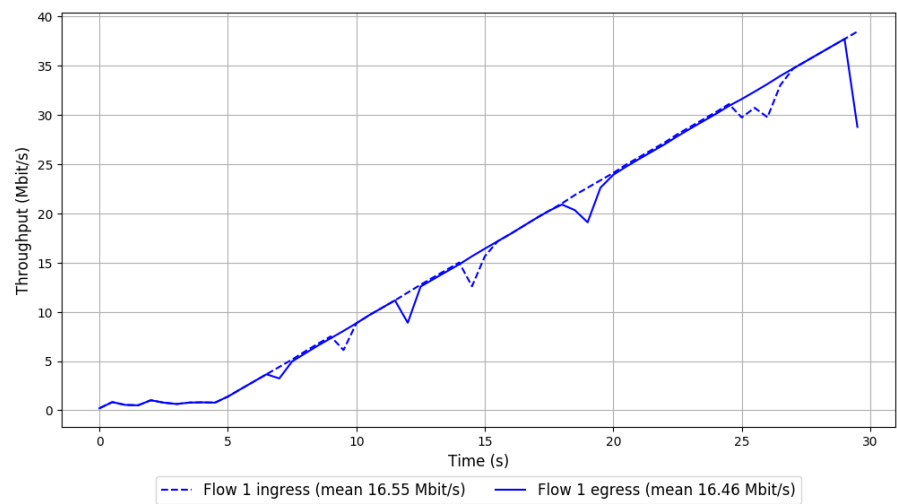
-- Flow 1:

Average throughput: 16.46 Mbit/s

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

Loss rate: 0.98%

Run 10: Report of LEDBAT — Data Link

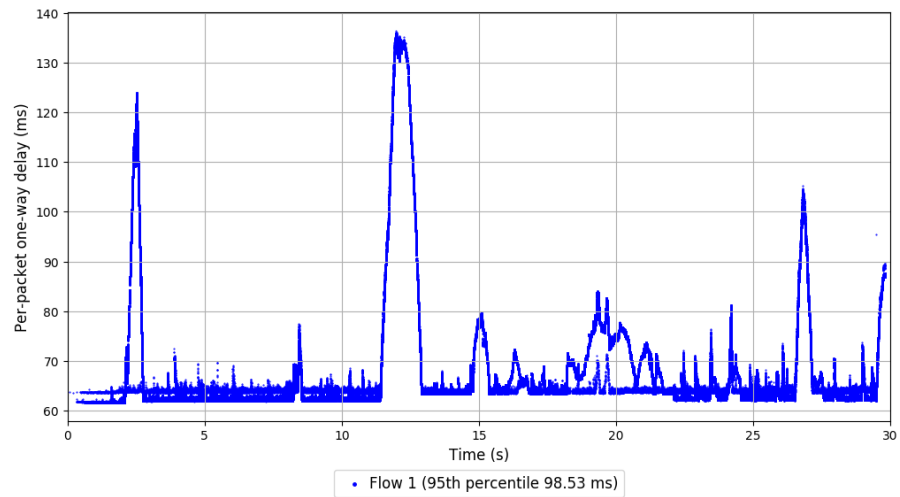
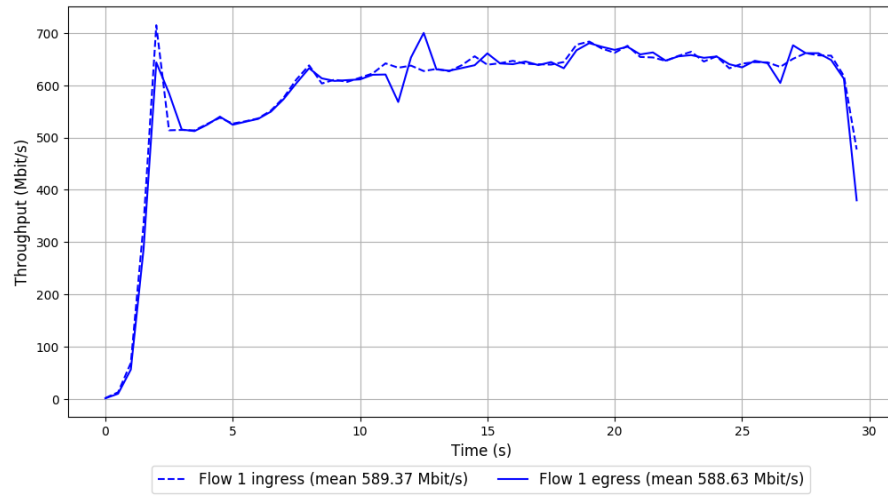


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 18:47:45
End at: 2018-04-17 18:48:15

# Below is generated by plot.py at 2018-04-17 23:28:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 588.63 Mbit/s
95th percentile per-packet one-way delay: 98.534 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 588.63 Mbit/s
95th percentile per-packet one-way delay: 98.534 ms
Loss rate: 0.55%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 19:00:55

End at: 2018-04-17 19:01:25

Below is generated by plot.py at 2018-04-17 23:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.28 Mbit/s

95th percentile per-packet one-way delay: 142.163 ms

Loss rate: 1.41%

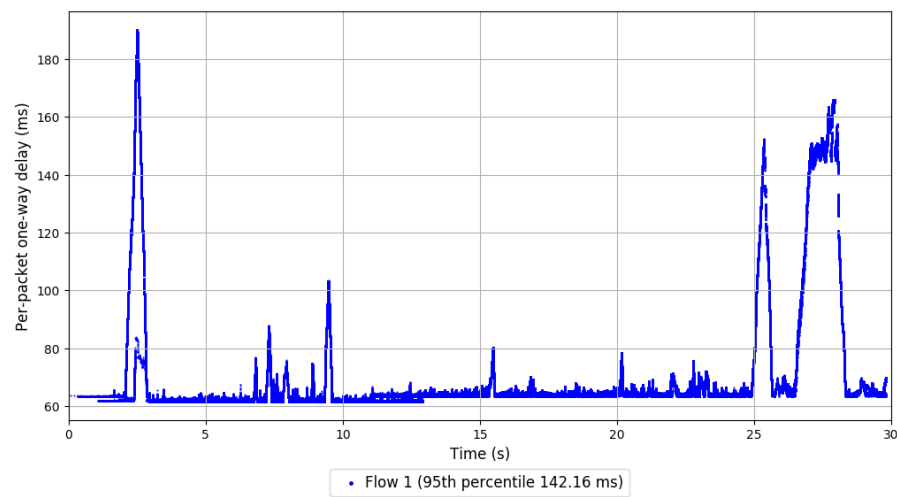
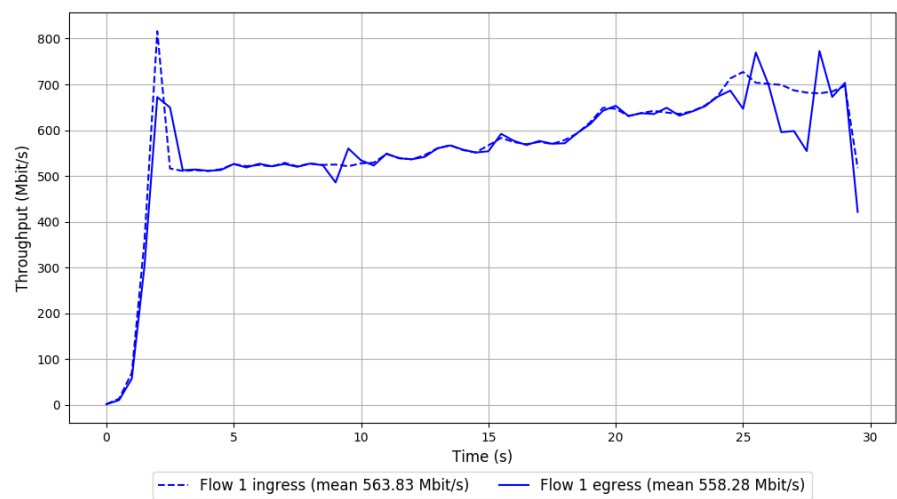
-- Flow 1:

Average throughput: 558.28 Mbit/s

95th percentile per-packet one-way delay: 142.163 ms

Loss rate: 1.41%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 19:14:01

End at: 2018-04-17 19:14:31

Below is generated by plot.py at 2018-04-17 23:28:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.42 Mbit/s

95th percentile per-packet one-way delay: 101.524 ms

Loss rate: 0.61%

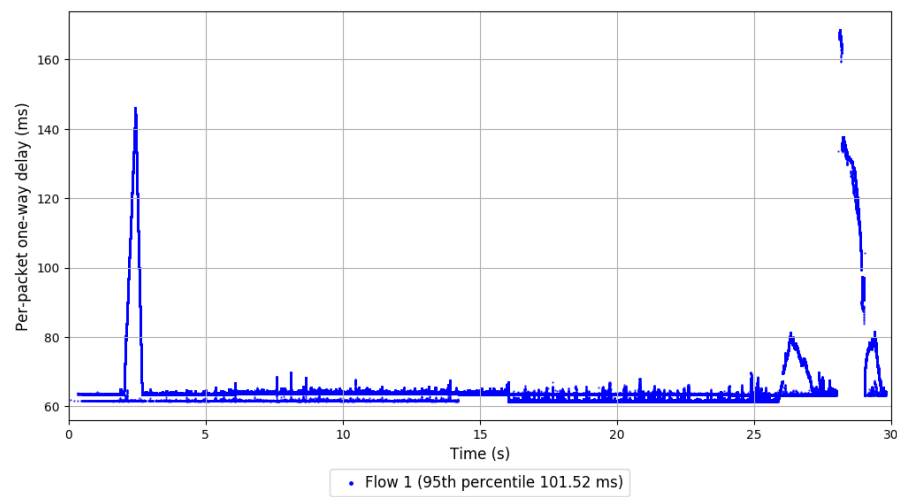
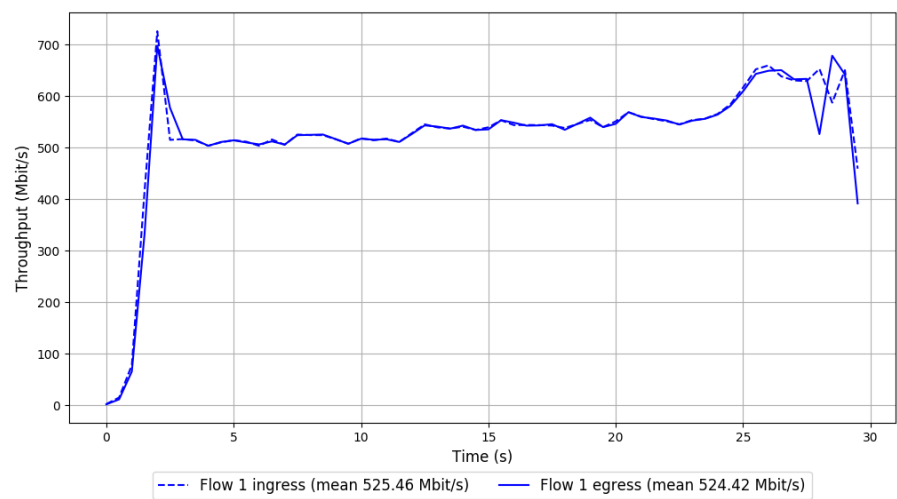
-- Flow 1:

Average throughput: 524.42 Mbit/s

95th percentile per-packet one-way delay: 101.524 ms

Loss rate: 0.61%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 19:27:05

End at: 2018-04-17 19:27:35

Below is generated by plot.py at 2018-04-17 23:28:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.55 Mbit/s

95th percentile per-packet one-way delay: 135.929 ms

Loss rate: 0.89%

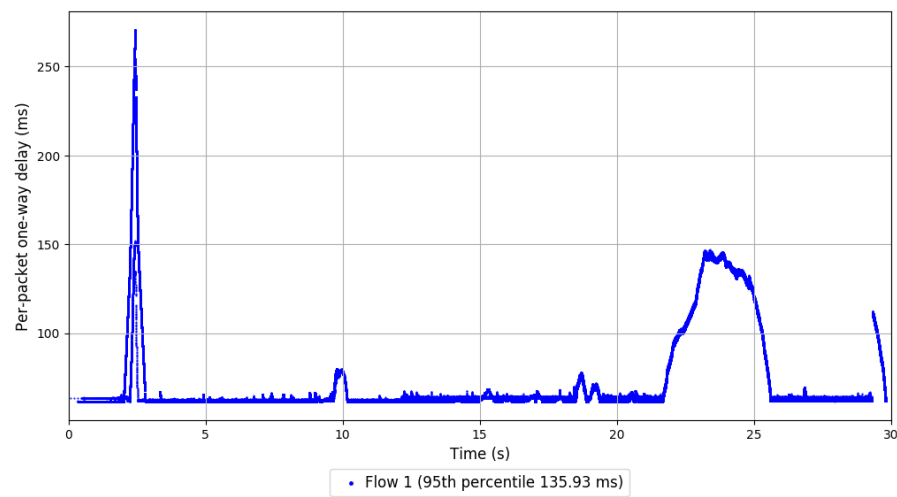
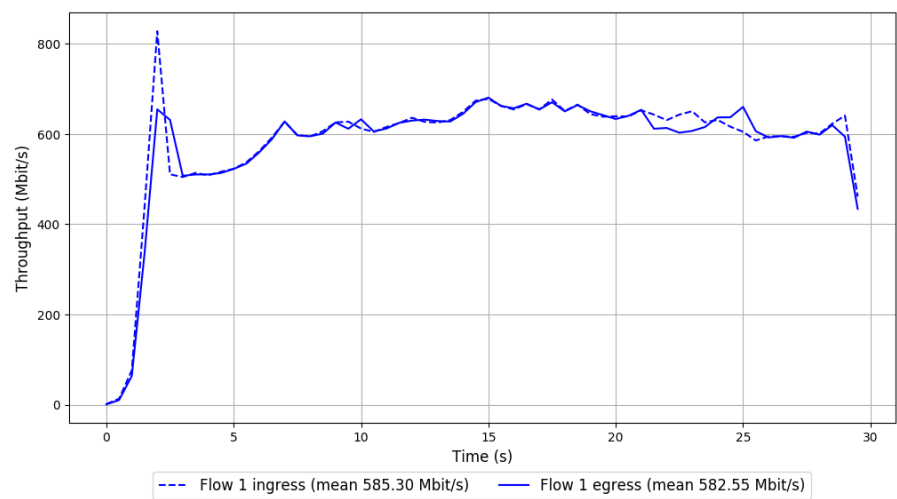
-- Flow 1:

Average throughput: 582.55 Mbit/s

95th percentile per-packet one-way delay: 135.929 ms

Loss rate: 0.89%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 19:40:12

End at: 2018-04-17 19:40:42

Below is generated by plot.py at 2018-04-17 23:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.24 Mbit/s

95th percentile per-packet one-way delay: 147.332 ms

Loss rate: 1.58%

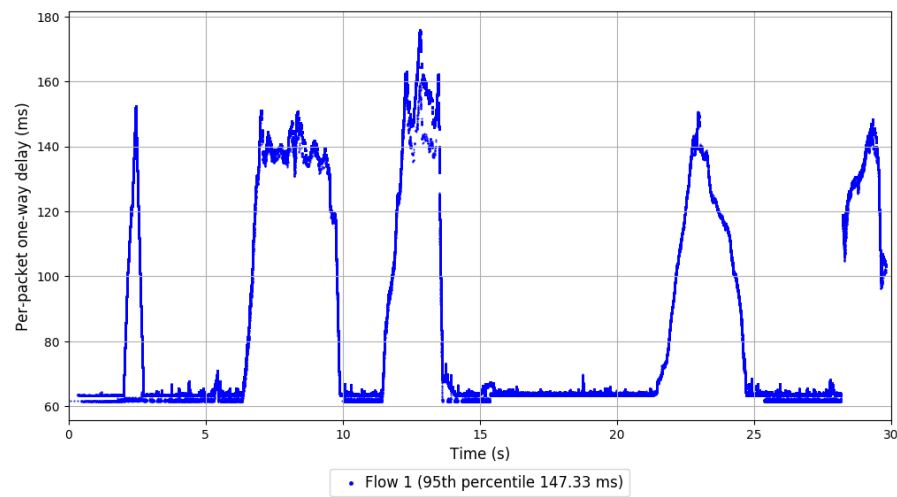
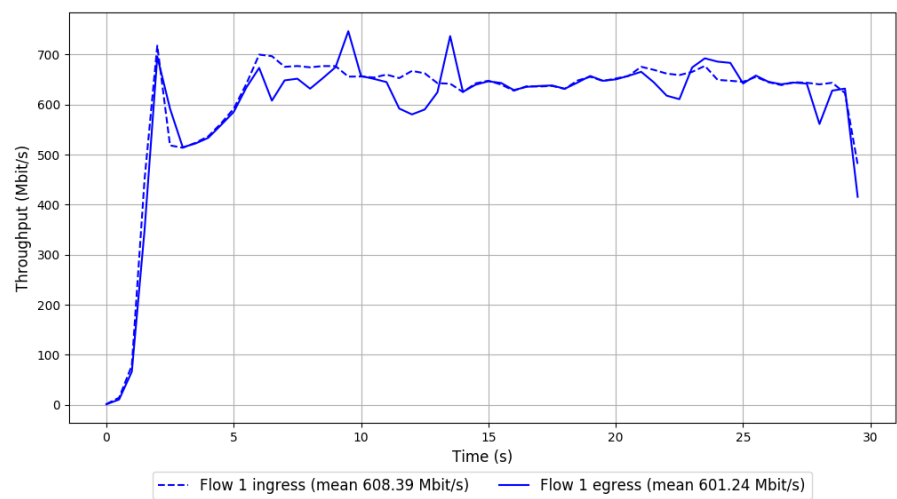
-- Flow 1:

Average throughput: 601.24 Mbit/s

95th percentile per-packet one-way delay: 147.332 ms

Loss rate: 1.58%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 19:53:21

End at: 2018-04-17 19:53:51

Below is generated by plot.py at 2018-04-17 23:29:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.41 Mbit/s

95th percentile per-packet one-way delay: 114.965 ms

Loss rate: 0.47%

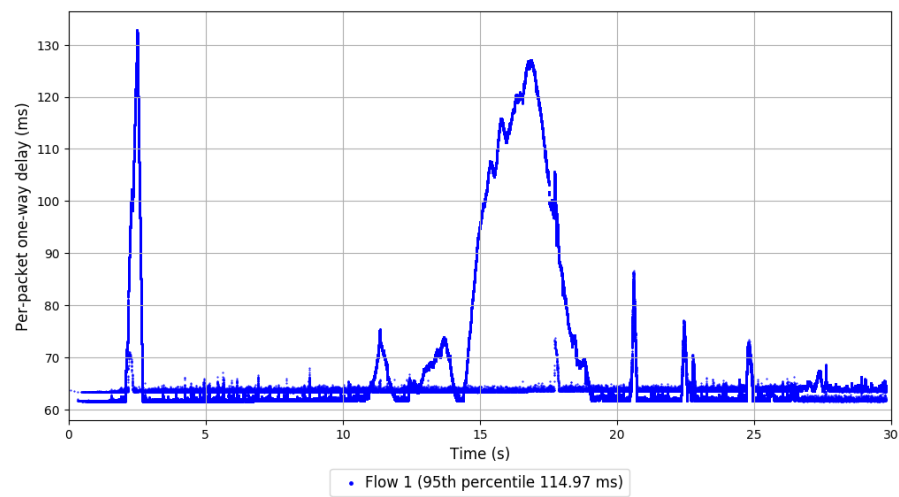
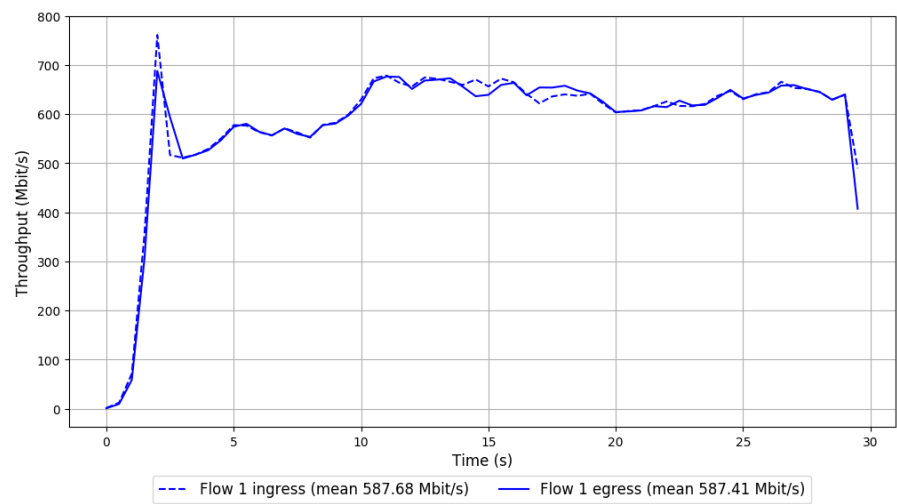
-- Flow 1:

Average throughput: 587.41 Mbit/s

95th percentile per-packet one-way delay: 114.965 ms

Loss rate: 0.47%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 20:06:25

End at: 2018-04-17 20:06:55

Below is generated by plot.py at 2018-04-17 23:29:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.52 Mbit/s

95th percentile per-packet one-way delay: 139.284 ms

Loss rate: 0.99%

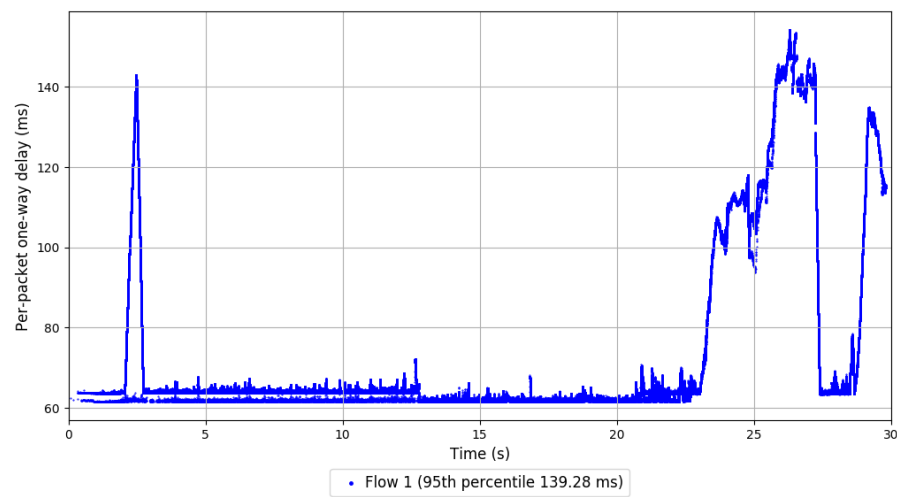
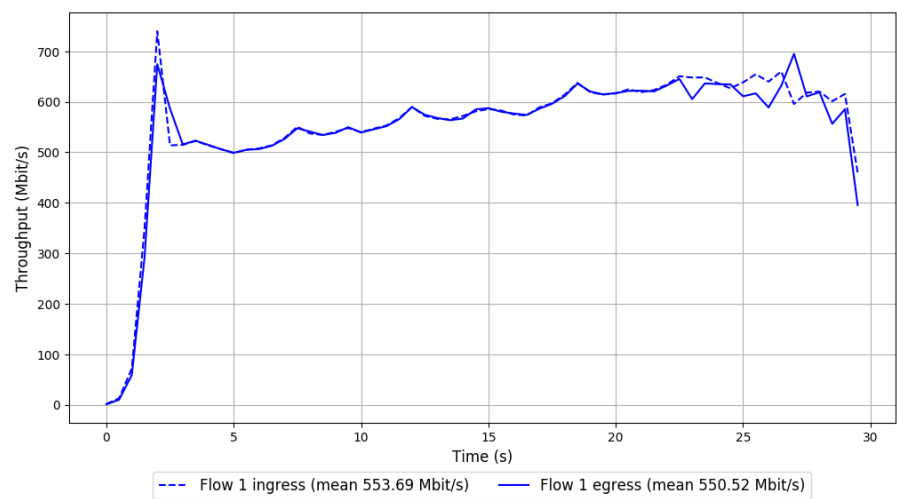
-- Flow 1:

Average throughput: 550.52 Mbit/s

95th percentile per-packet one-way delay: 139.284 ms

Loss rate: 0.99%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 20:19:24

End at: 2018-04-17 20:19:54

Below is generated by plot.py at 2018-04-17 23:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 588.02 Mbit/s

95th percentile per-packet one-way delay: 129.160 ms

Loss rate: 1.05%

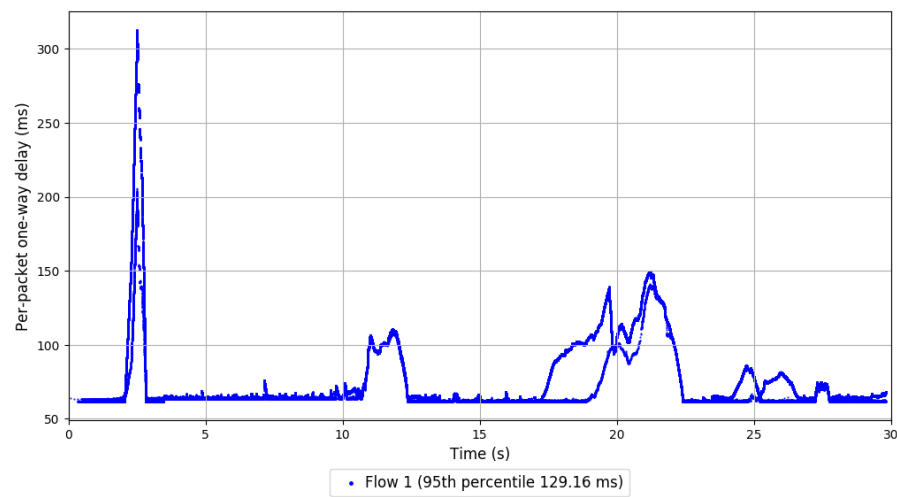
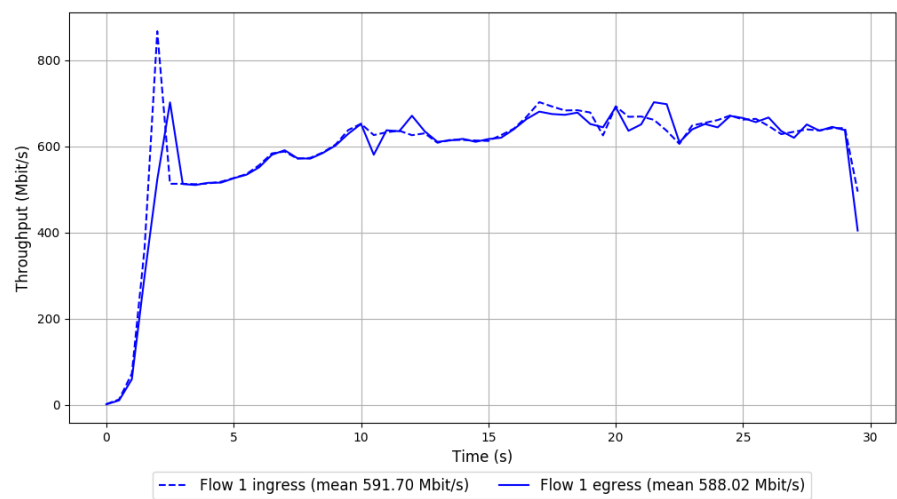
-- Flow 1:

Average throughput: 588.02 Mbit/s

95th percentile per-packet one-way delay: 129.160 ms

Loss rate: 1.05%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 20:32:28

End at: 2018-04-17 20:32:58

Below is generated by plot.py at 2018-04-17 23:38:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 593.67 Mbit/s

95th percentile per-packet one-way delay: 98.387 ms

Loss rate: 0.46%

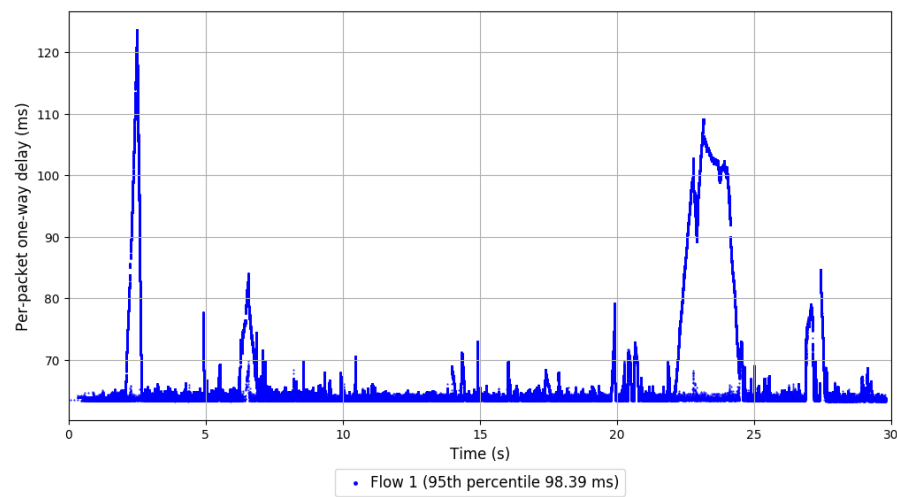
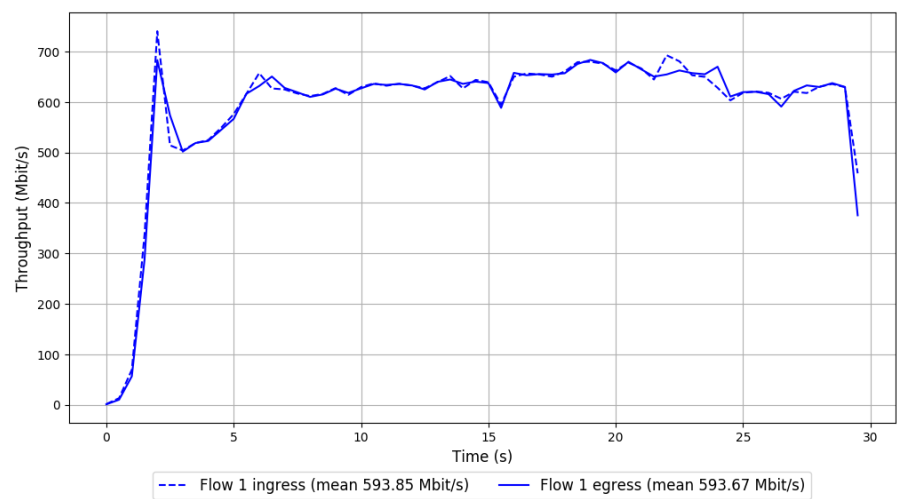
-- Flow 1:

Average throughput: 593.67 Mbit/s

95th percentile per-packet one-way delay: 98.387 ms

Loss rate: 0.46%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 20:45:37

End at: 2018-04-17 20:46:07

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 603.37 Mbit/s

95th percentile per-packet one-way delay: 121.830 ms

Loss rate: 0.62%

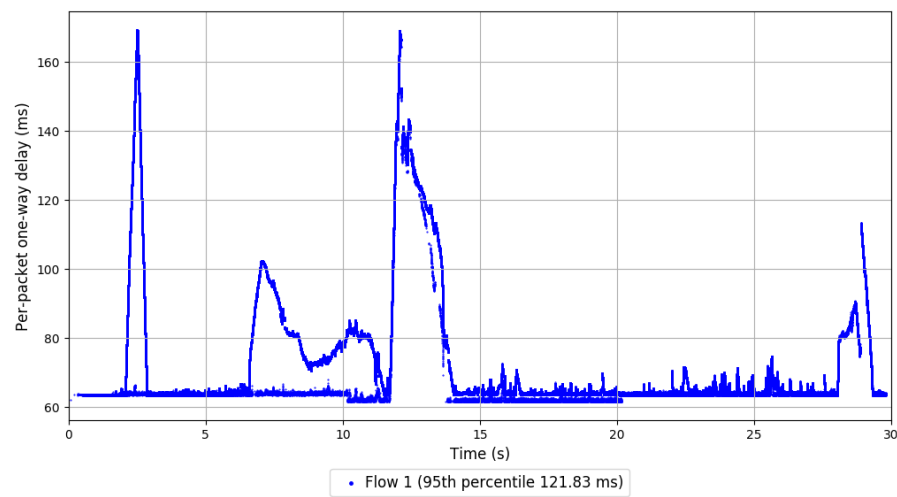
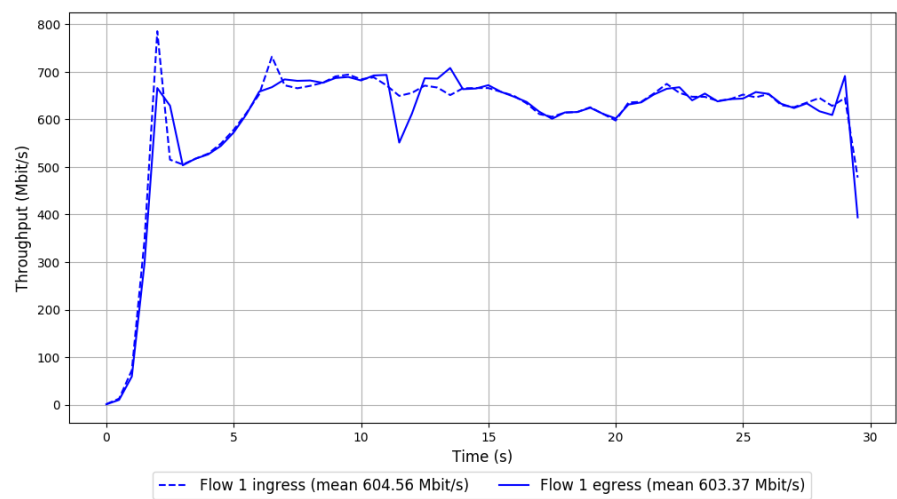
-- Flow 1:

Average throughput: 603.37 Mbit/s

95th percentile per-packet one-way delay: 121.830 ms

Loss rate: 0.62%

Run 10: Report of PCC-Allegro — Data Link

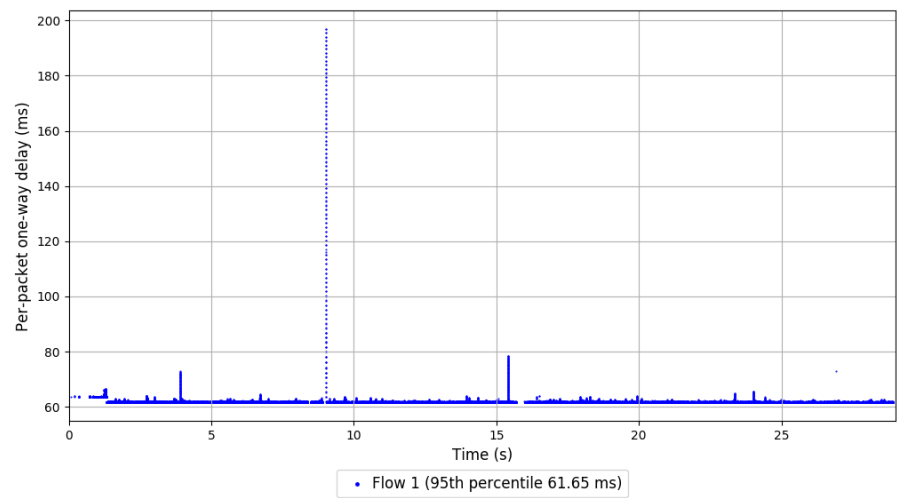
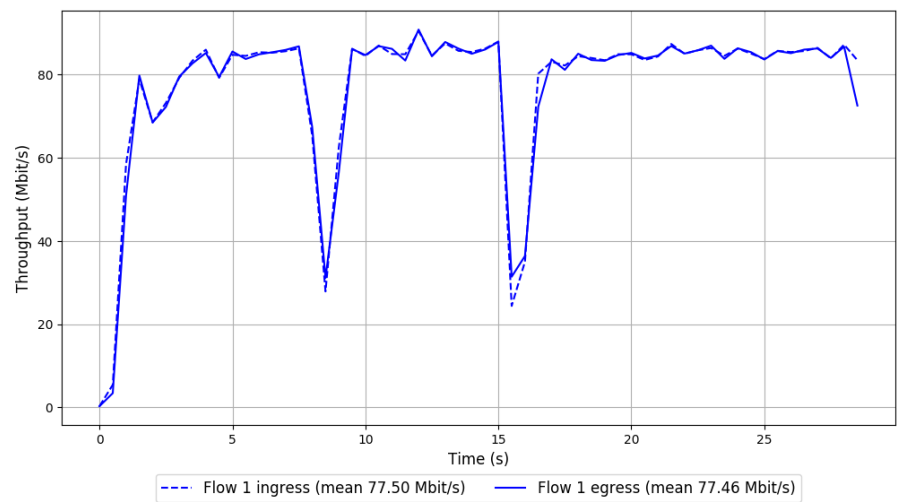


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 18:48:43
End at: 2018-04-17 18:49:13

# Below is generated by plot.py at 2018-04-17 23:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 61.649 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 61.649 ms
Loss rate: 0.49%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 19:01:52

End at: 2018-04-17 19:02:22

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 63.471 ms

Loss rate: 0.61%

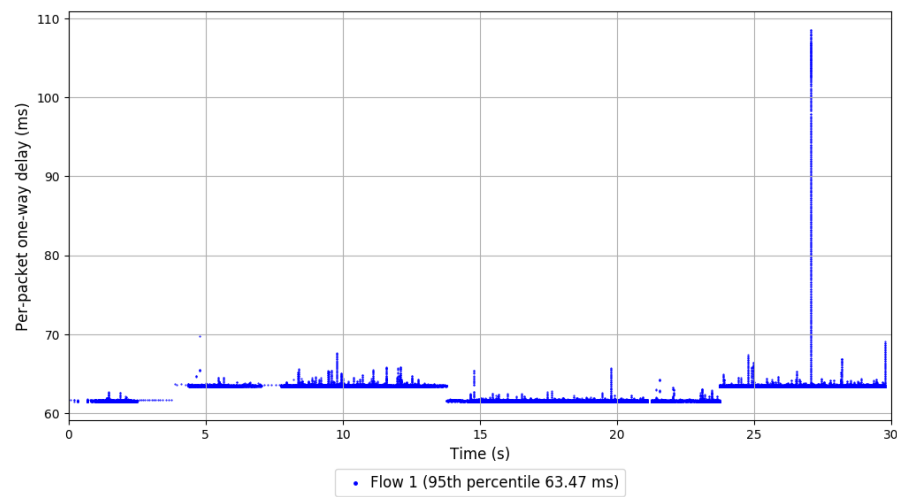
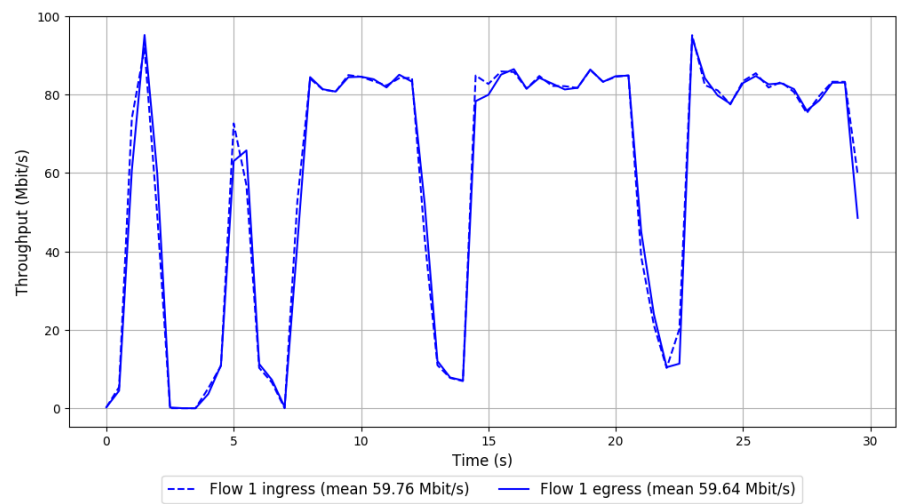
-- Flow 1:

Average throughput: 59.64 Mbit/s

95th percentile per-packet one-way delay: 63.471 ms

Loss rate: 0.61%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 19:14:57

End at: 2018-04-17 19:15:27

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 63.475 ms

Loss rate: 0.61%

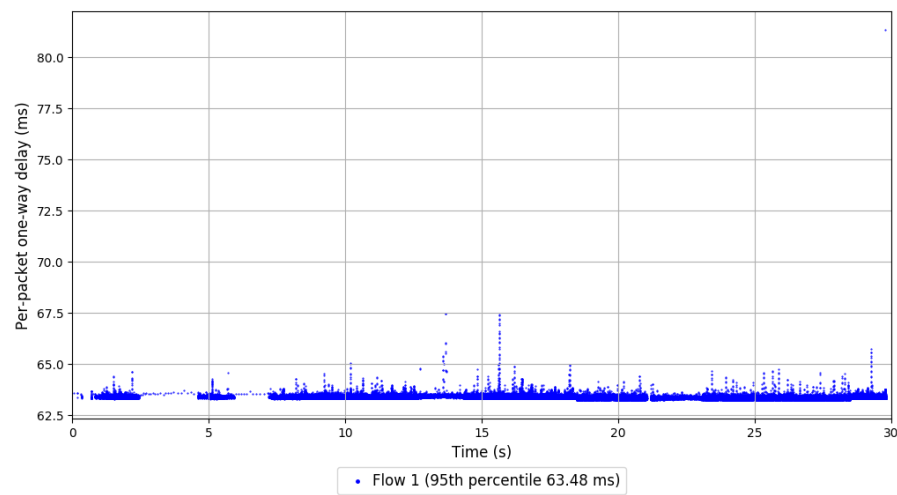
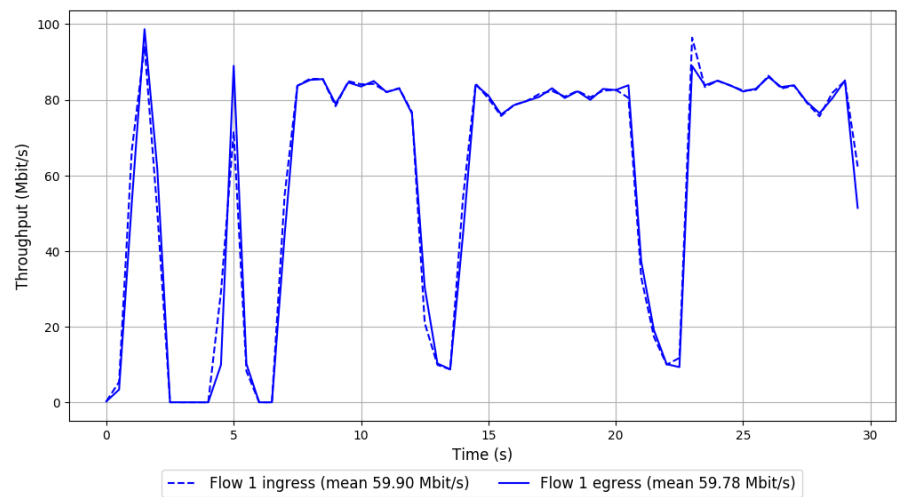
-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 63.475 ms

Loss rate: 0.61%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 19:28:03

End at: 2018-04-17 19:28:33

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 63.370 ms

Loss rate: 0.57%

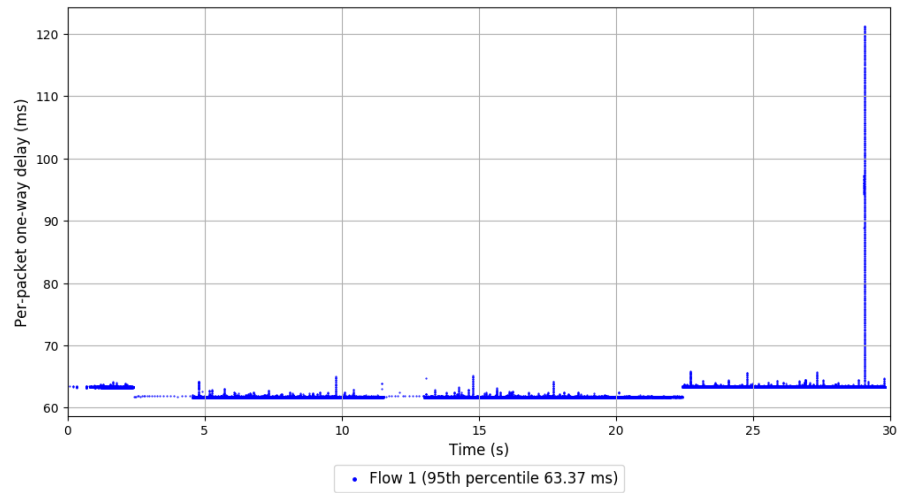
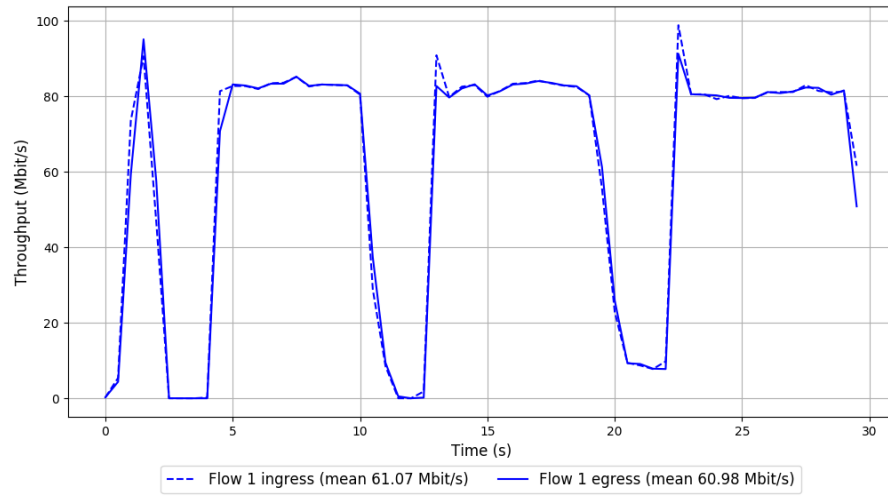
-- Flow 1:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 63.370 ms

Loss rate: 0.57%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 19:41:10

End at: 2018-04-17 19:41:40

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.73 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.47%

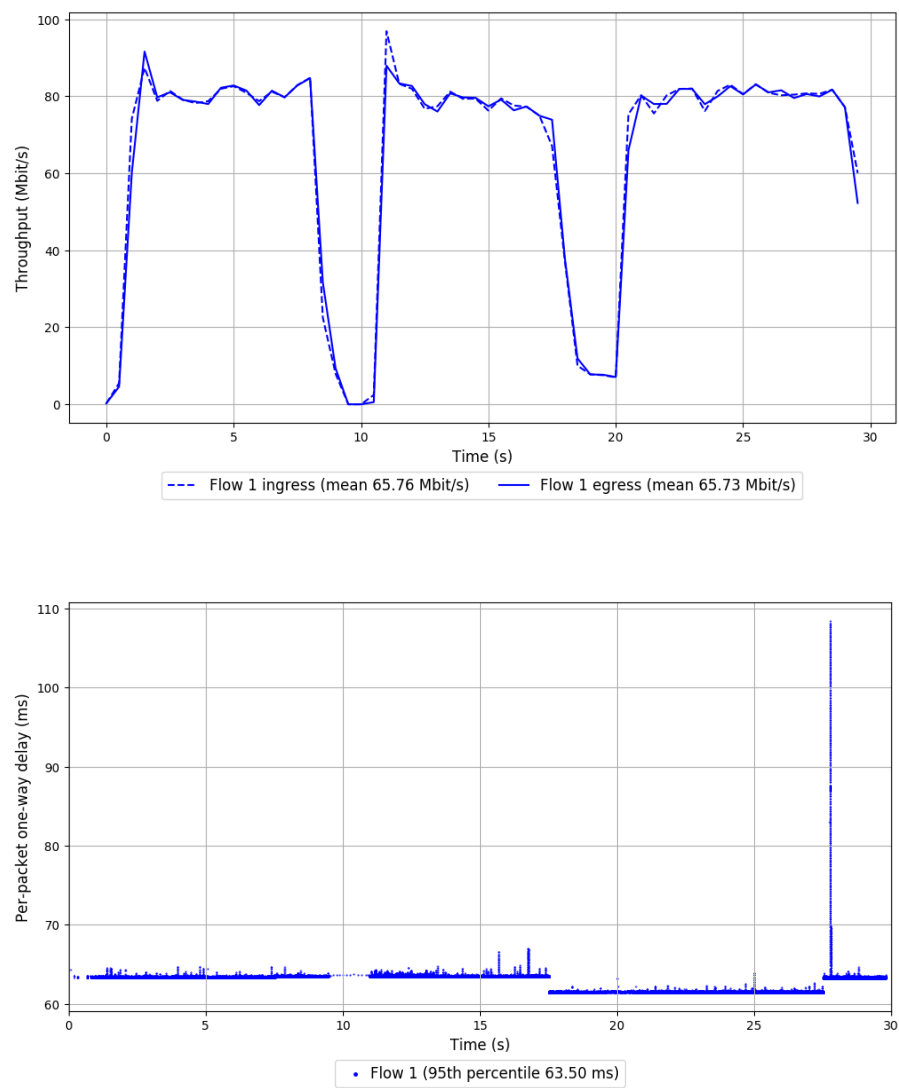
-- Flow 1:

Average throughput: 65.73 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.47%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 19:54:19

End at: 2018-04-17 19:54:49

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.39 Mbit/s

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

Loss rate: 0.63%

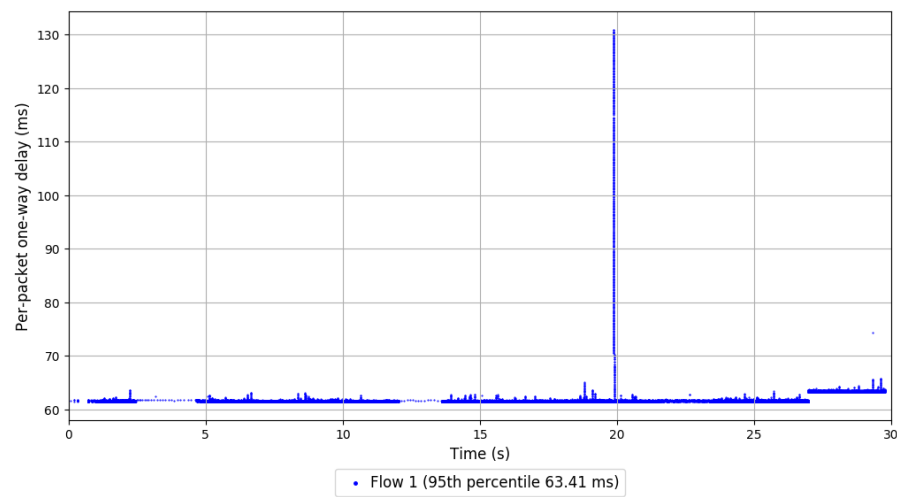
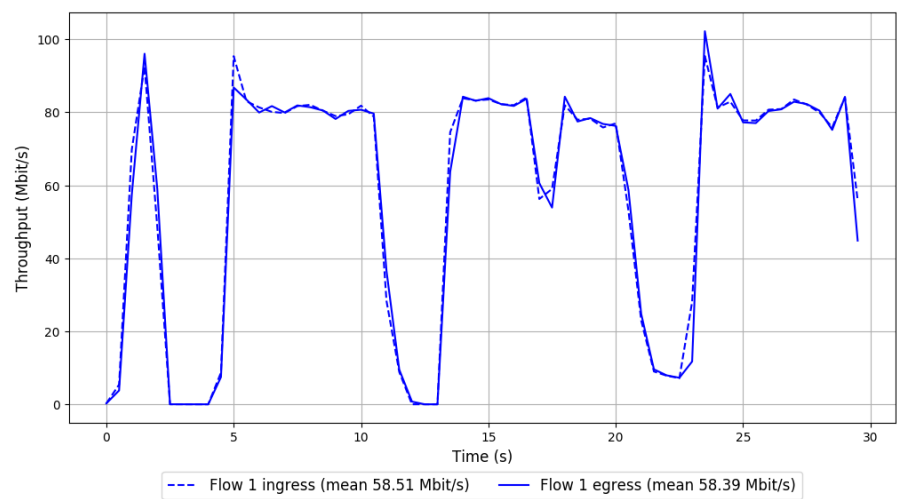
-- Flow 1:

Average throughput: 58.39 Mbit/s

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

Loss rate: 0.63%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 20:07:21

End at: 2018-04-17 20:07:51

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.12 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.63%

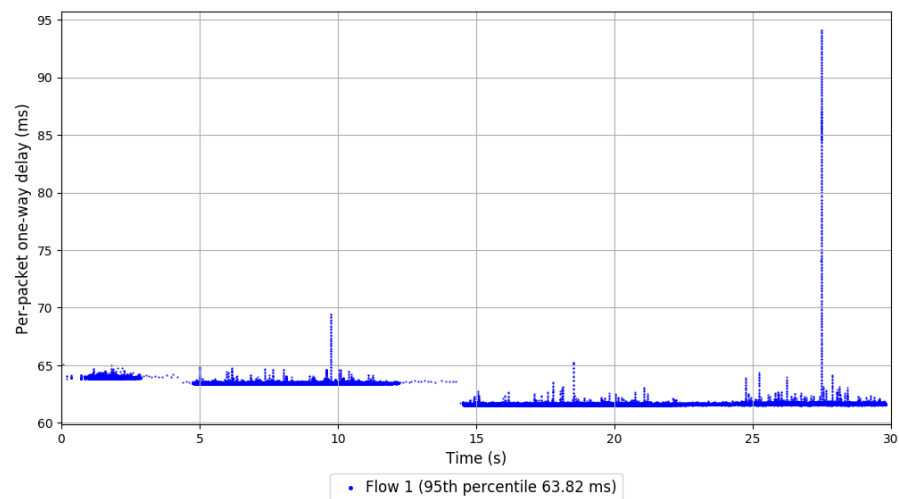
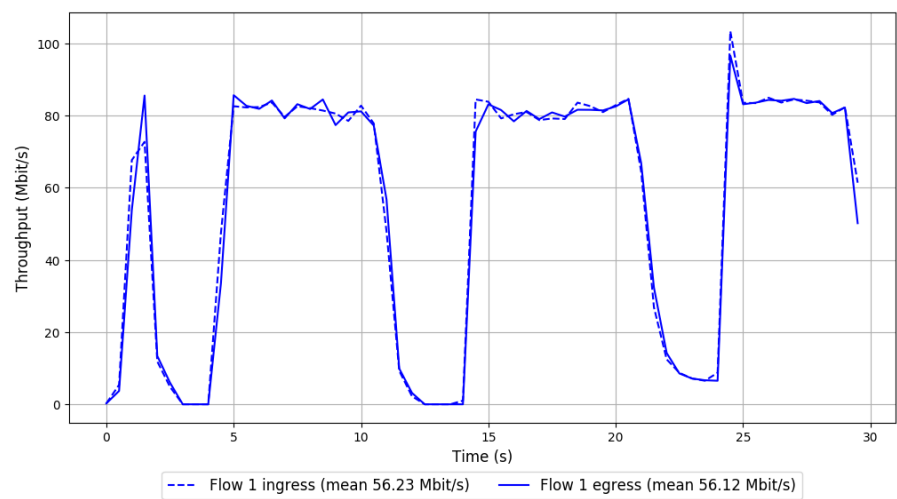
-- Flow 1:

Average throughput: 56.12 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.63%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 20:20:22

End at: 2018-04-17 20:20:52

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.92 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.53%

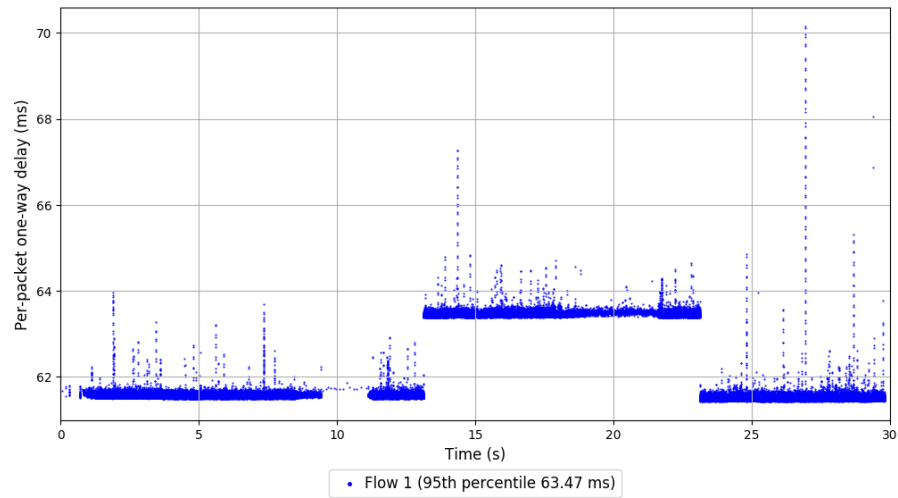
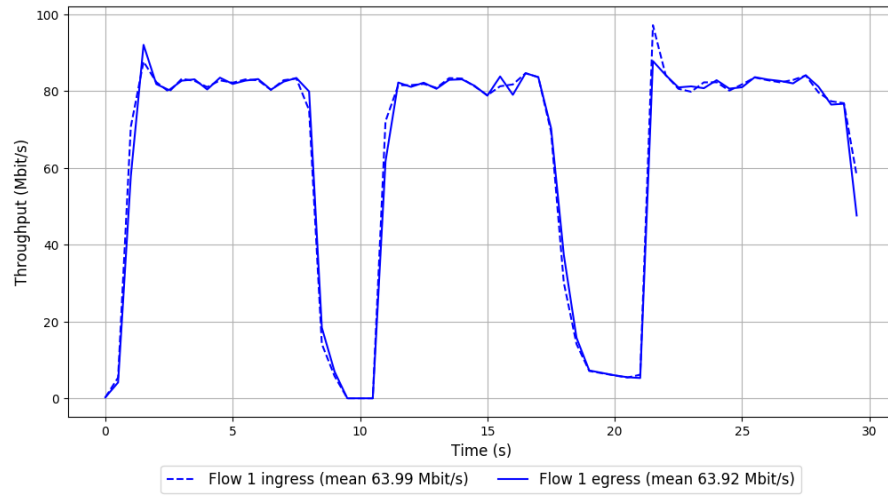
-- Flow 1:

Average throughput: 63.92 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.53%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 20:33:26

End at: 2018-04-17 20:33:56

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 63.388 ms

Loss rate: 0.57%

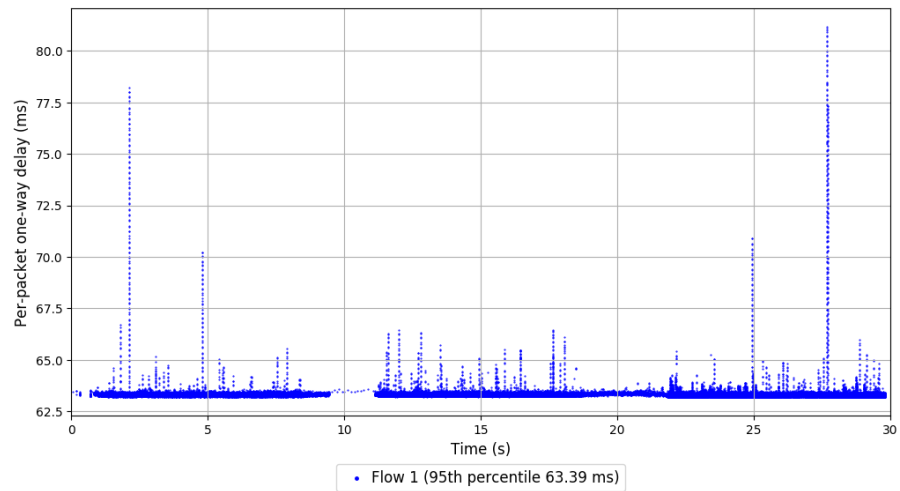
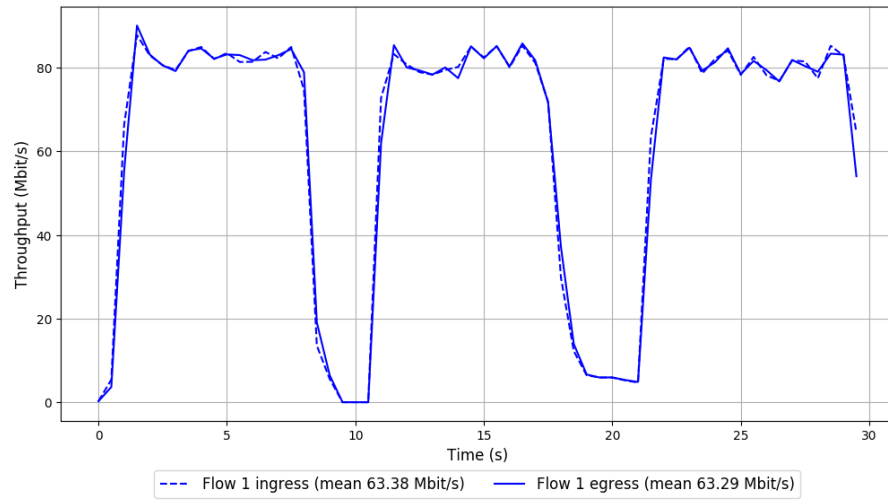
-- Flow 1:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 63.388 ms

Loss rate: 0.57%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 20:46:36

End at: 2018-04-17 20:47:06

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.45 Mbit/s

95th percentile per-packet one-way delay: 63.431 ms

Loss rate: 0.60%

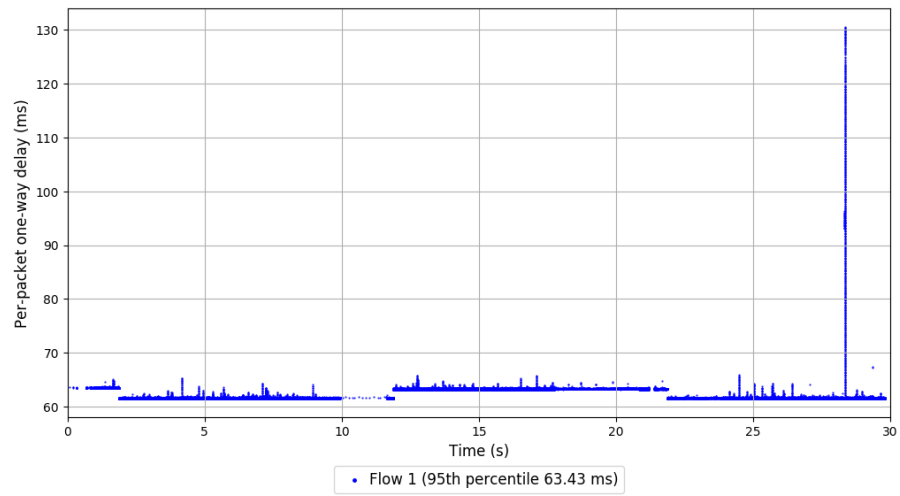
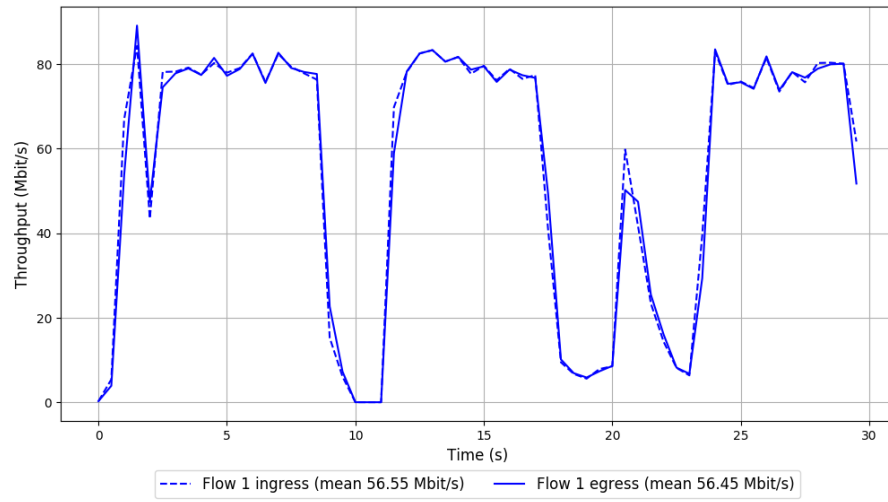
-- Flow 1:

Average throughput: 56.45 Mbit/s

95th percentile per-packet one-way delay: 63.431 ms

Loss rate: 0.60%

Run 10: Report of QUIC Cubic — Data Link

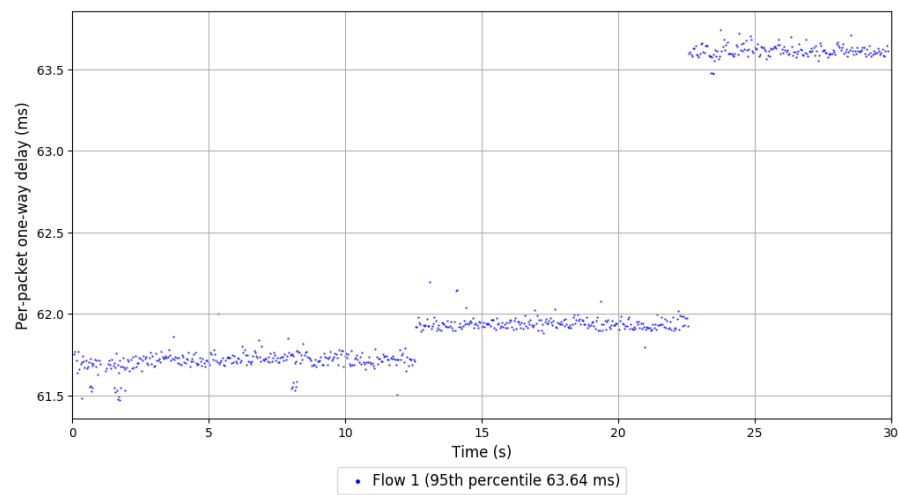
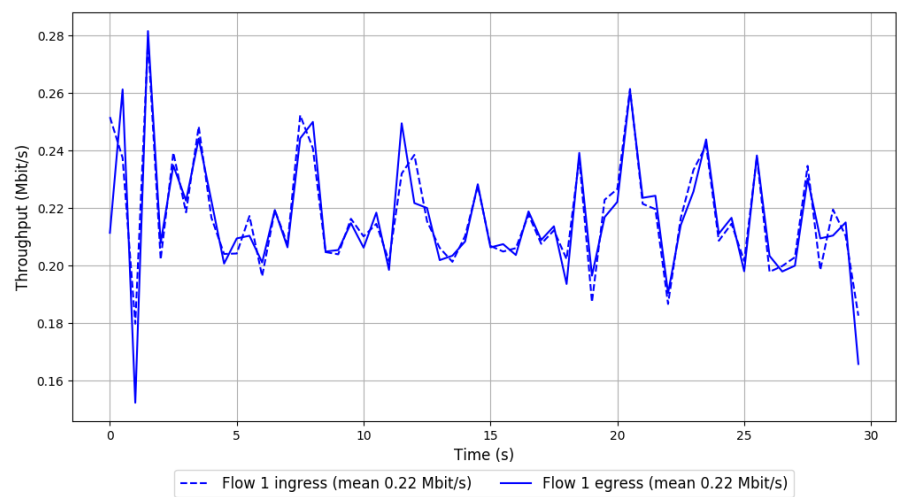


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 18:49:25
End at: 2018-04-17 18:49:55

# Below is generated by plot.py at 2018-04-17 23:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.640 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.640 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-17 19:02:33

End at: 2018-04-17 19:03:03

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.38%

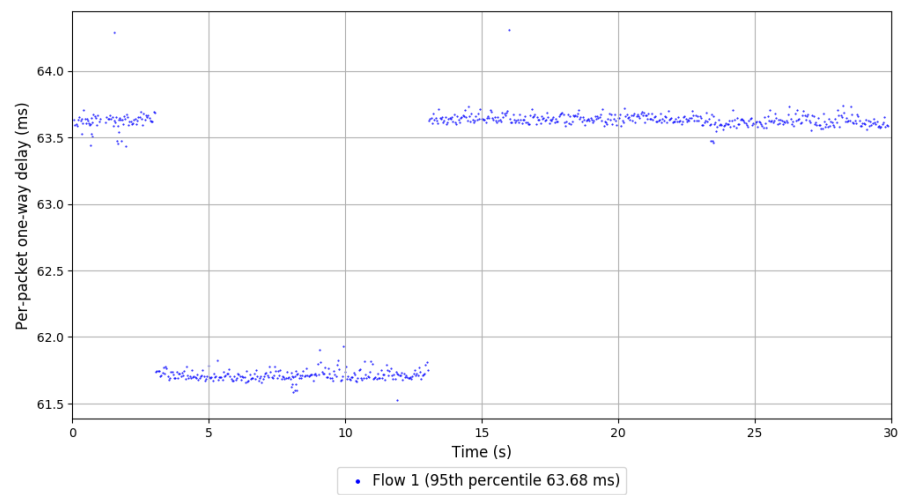
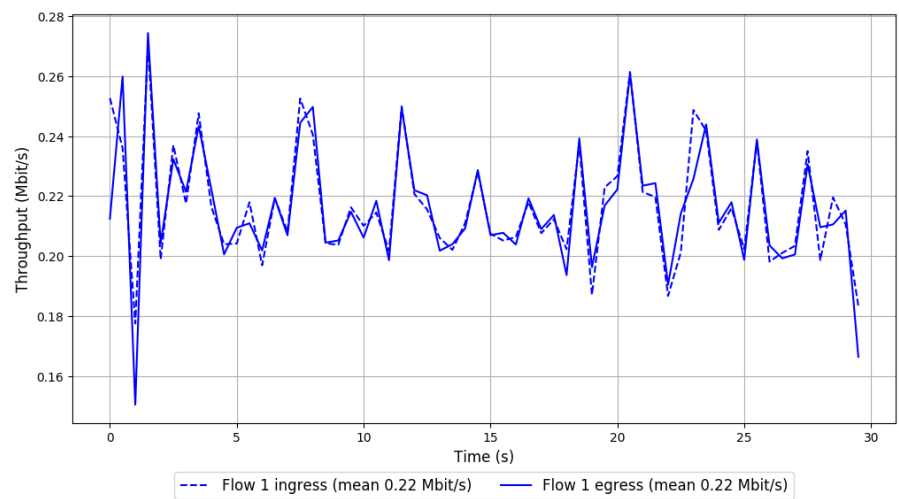
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-17 19:15:38

End at: 2018-04-17 19:16:08

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.795 ms

Loss rate: 0.38%

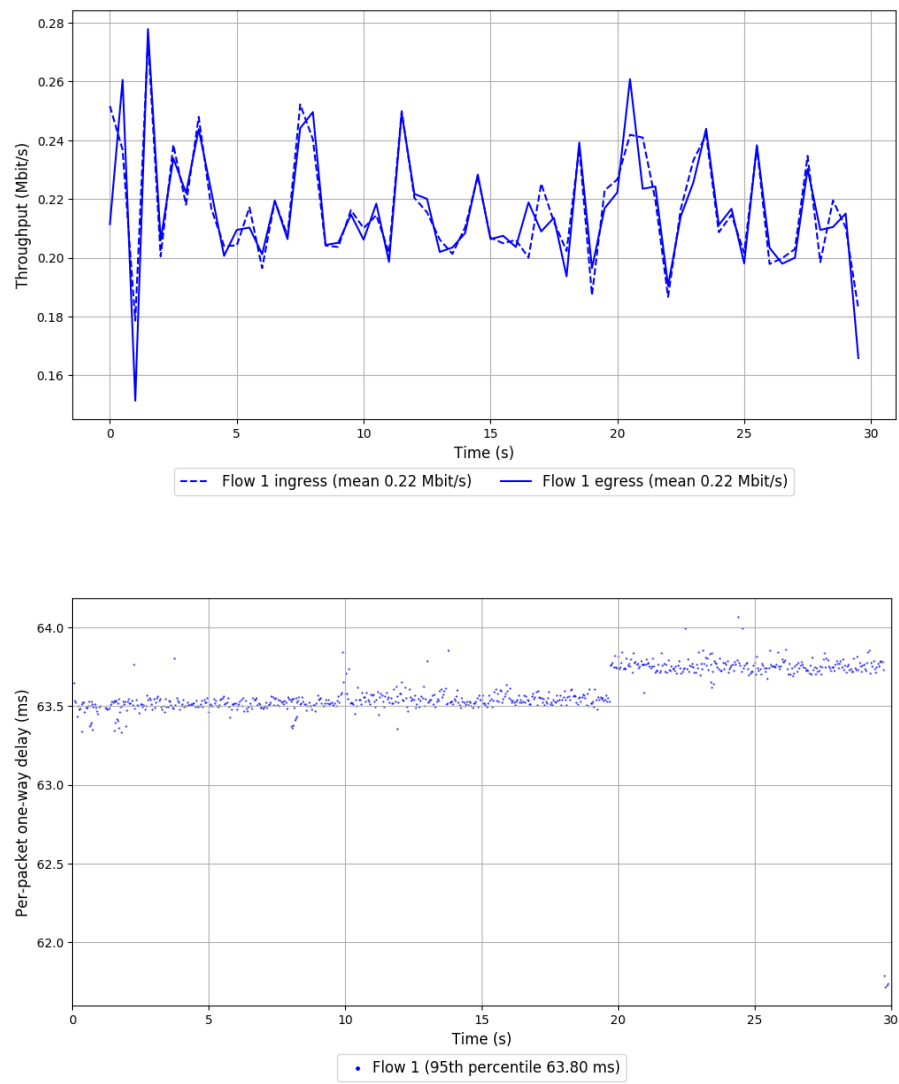
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.795 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-17 19:28:44

End at: 2018-04-17 19:29:14

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.38%

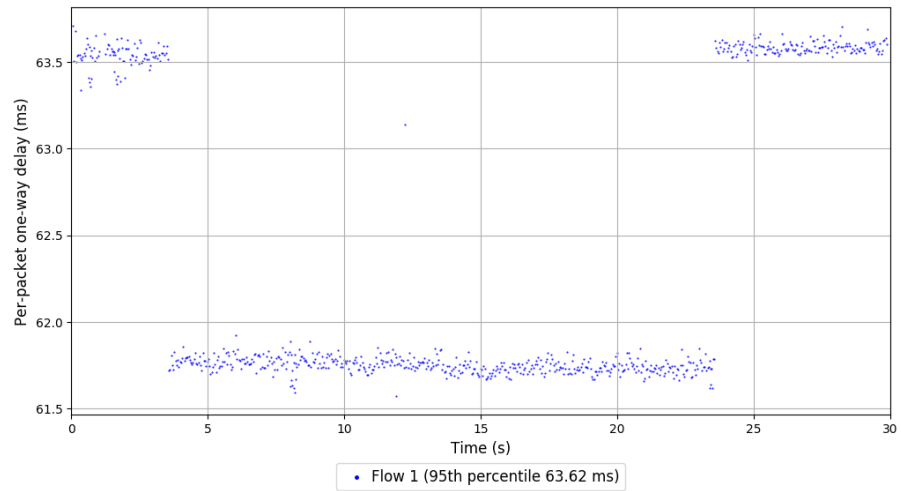
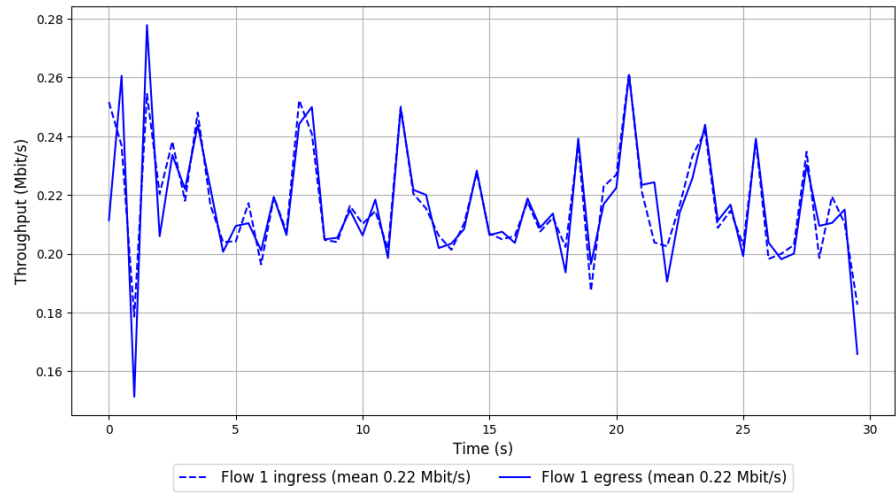
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-17 19:41:51

End at: 2018-04-17 19:42:21

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.38%

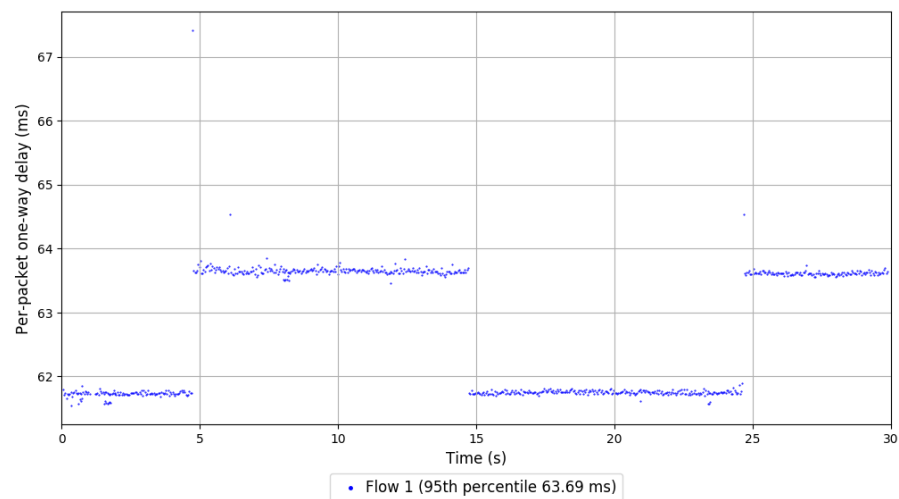
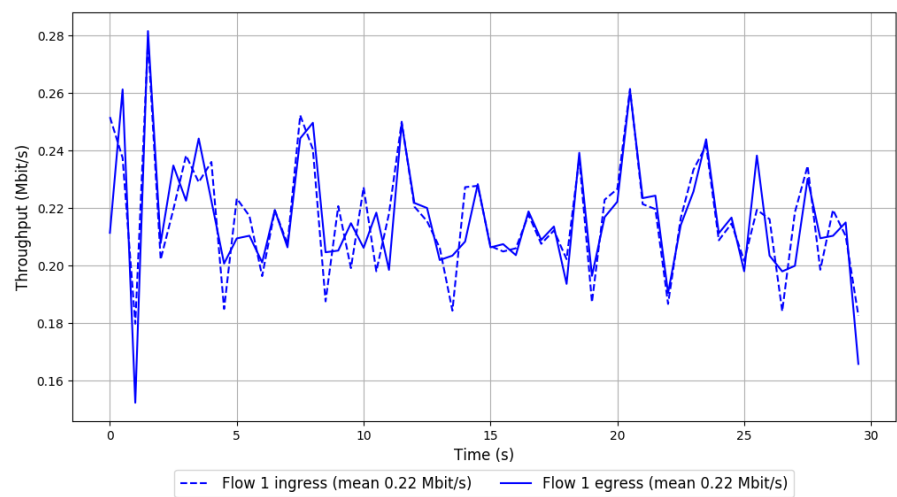
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-17 19:54:59

End at: 2018-04-17 19:55:29

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.51%

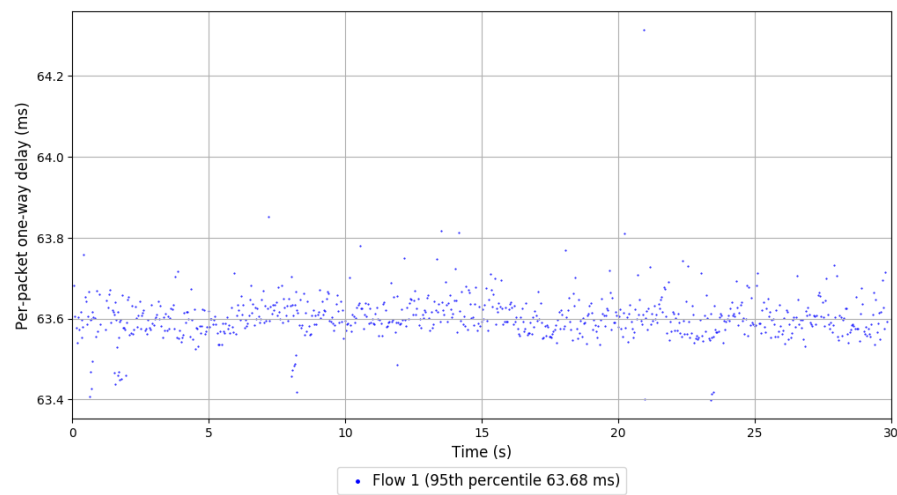
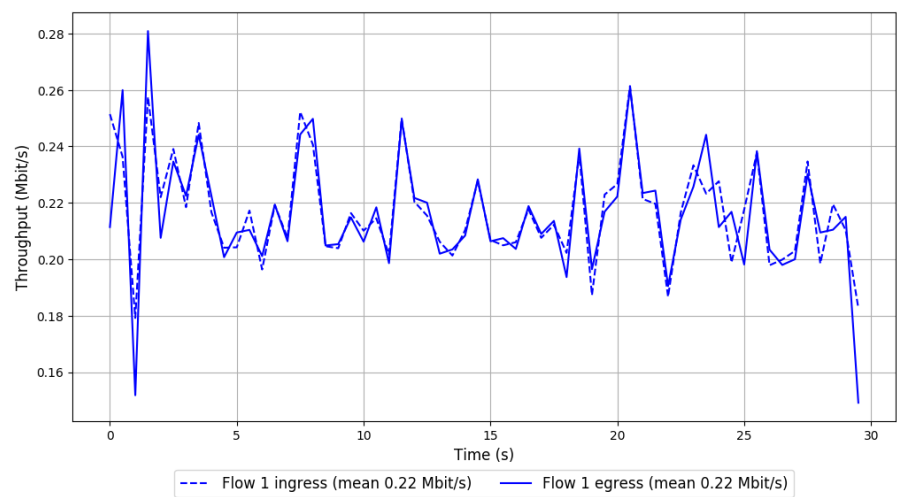
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.51%

Run 6: Report of SReAM — Data Link

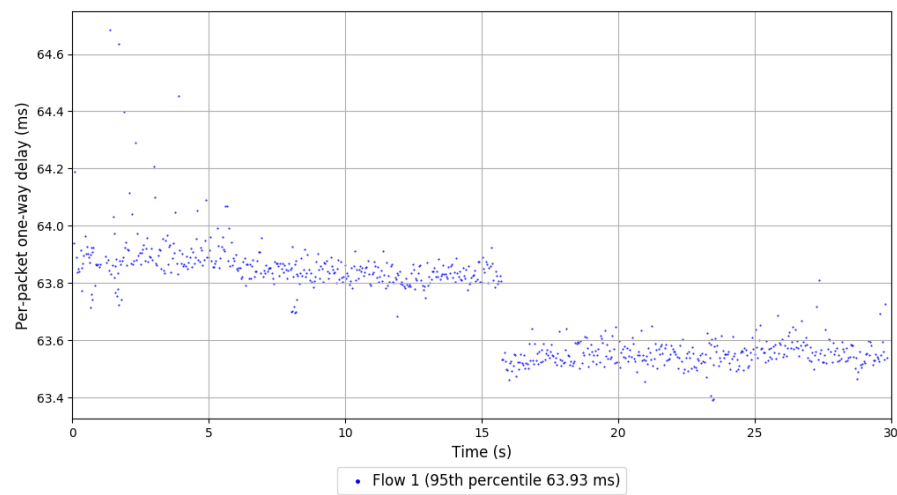
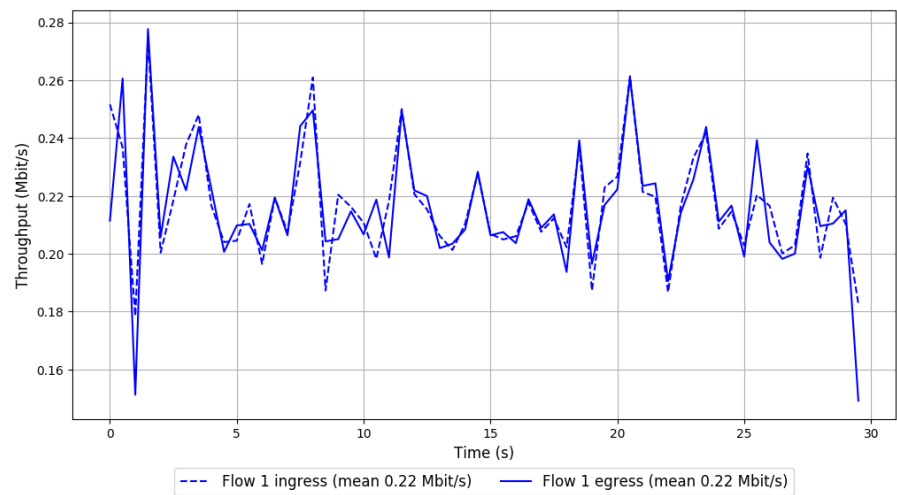


```
Run 7: Statistics of SCReAM

Start at: 2018-04-17 20:08:02
End at: 2018-04-17 20:08:32

# Below is generated by plot.py at 2018-04-17 23:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.926 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.926 ms
Loss rate: 0.51%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-17 20:21:04

End at: 2018-04-17 20:21:34

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.38%

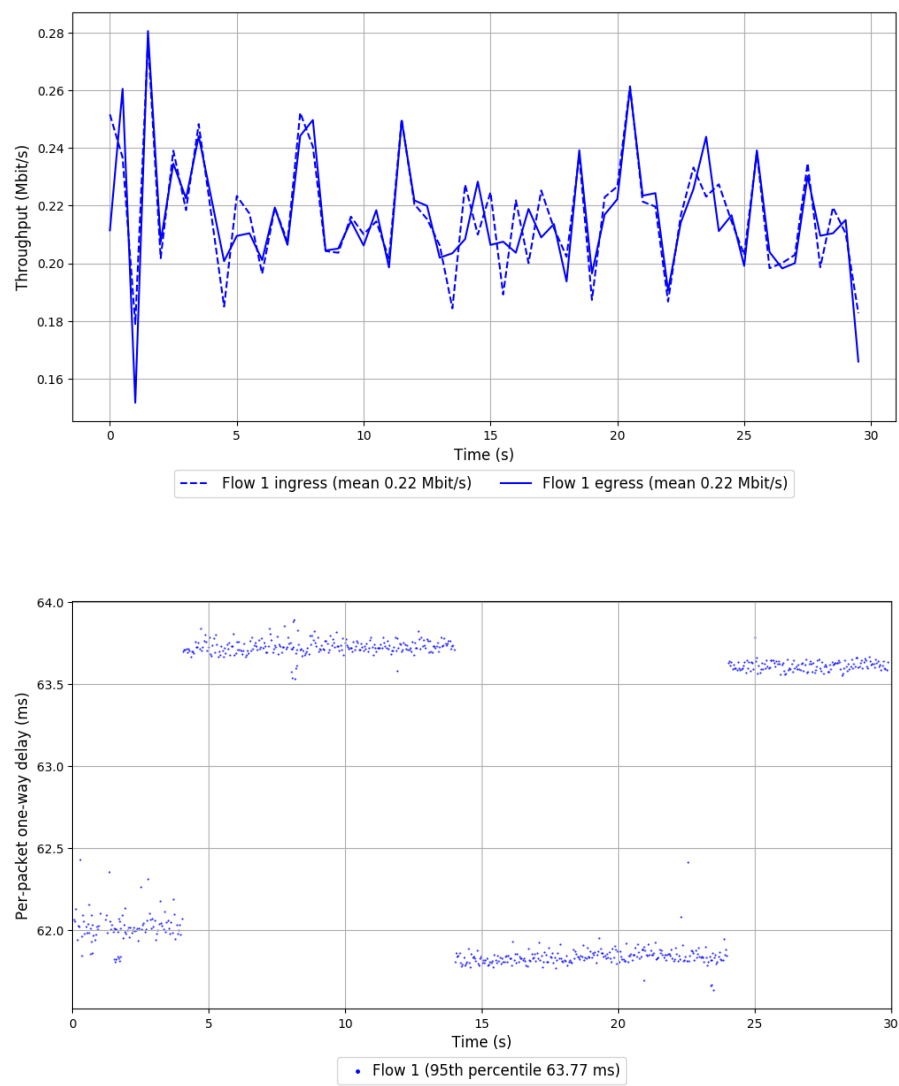
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-17 20:34:07

End at: 2018-04-17 20:34:37

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.627 ms

Loss rate: 0.38%

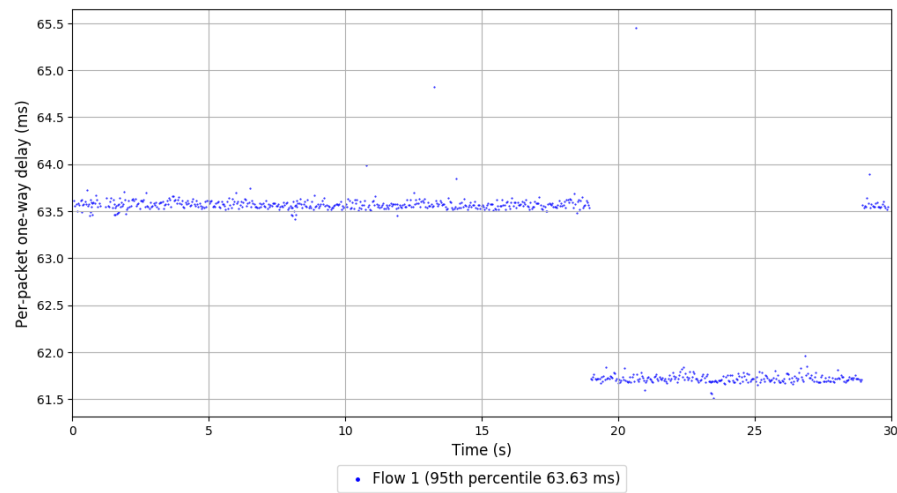
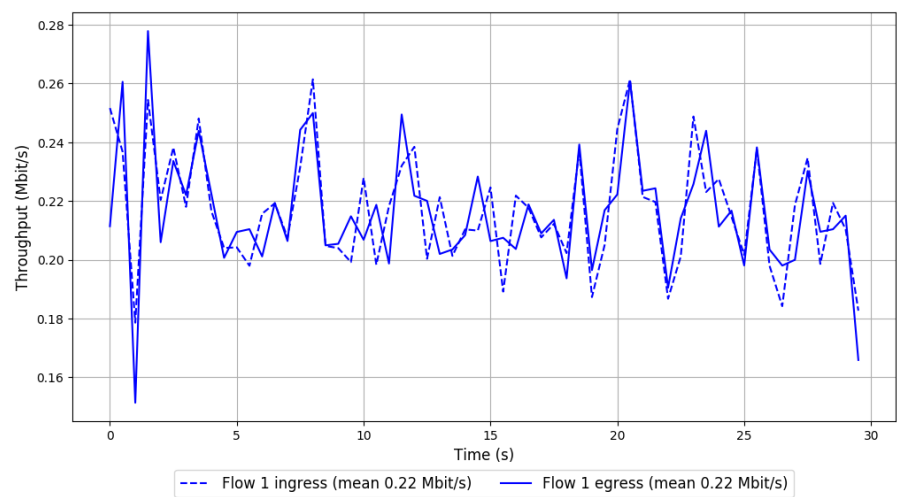
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.627 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-17 20:47:16

End at: 2018-04-17 20:47:46

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.38%

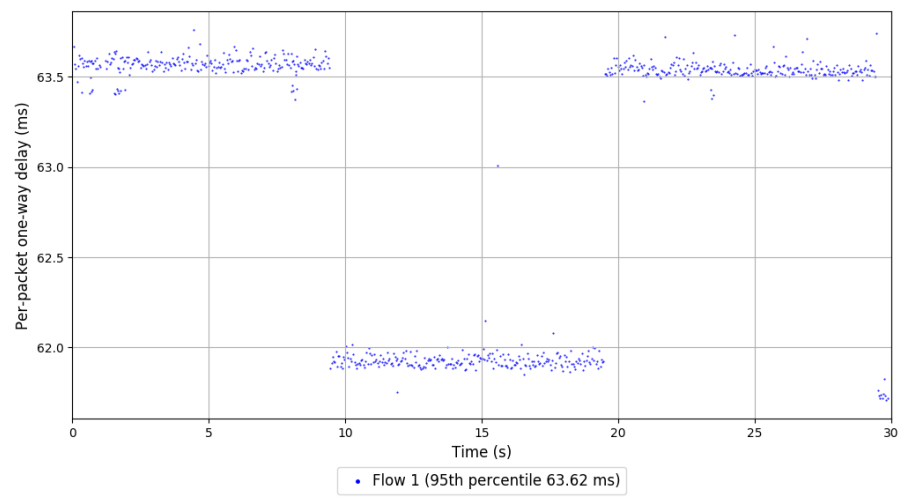
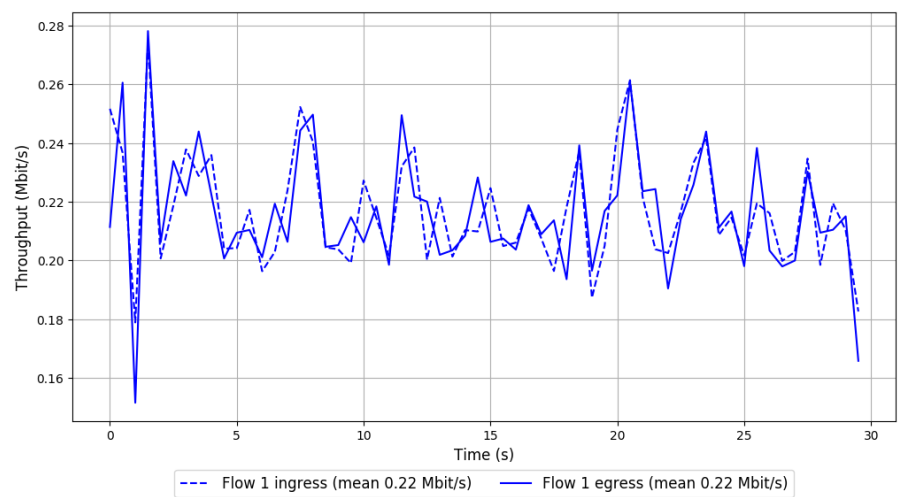
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.615 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

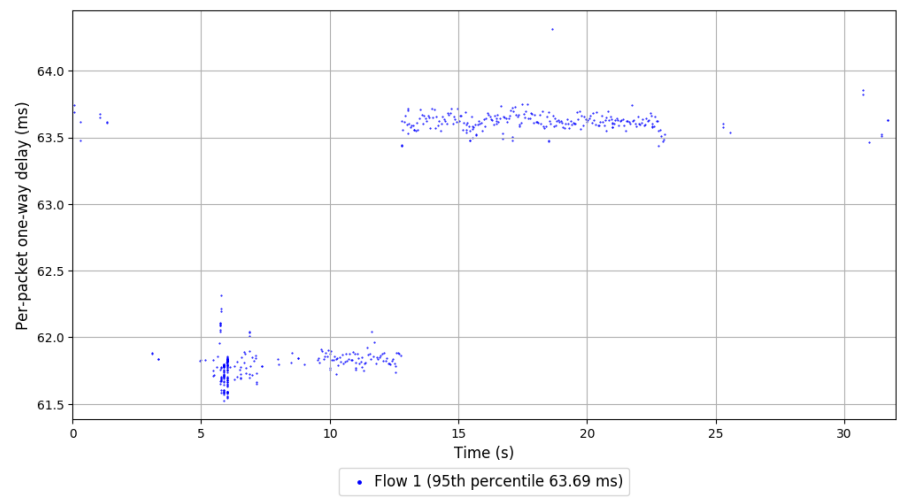
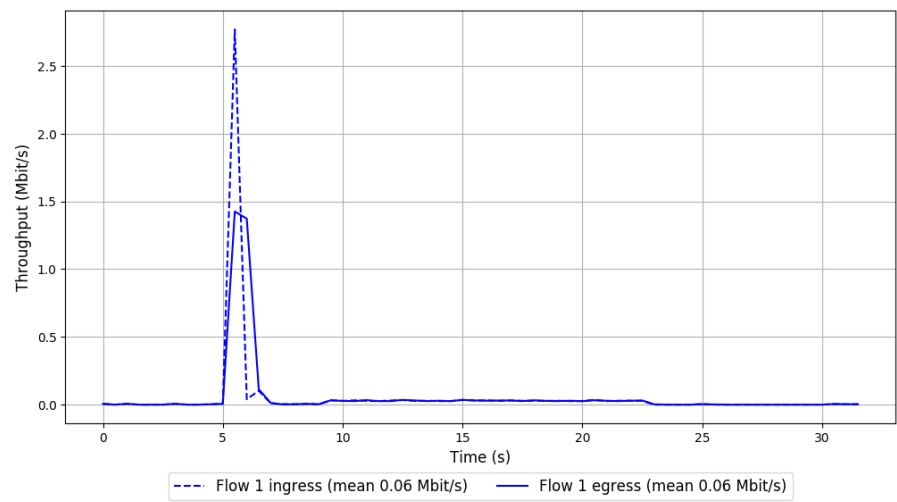


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 18:56:17
End at: 2018-04-17 18:56:47

# Below is generated by plot.py at 2018-04-17 23:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 63.689 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 19:09:23

End at: 2018-04-17 19:09:53

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.00%

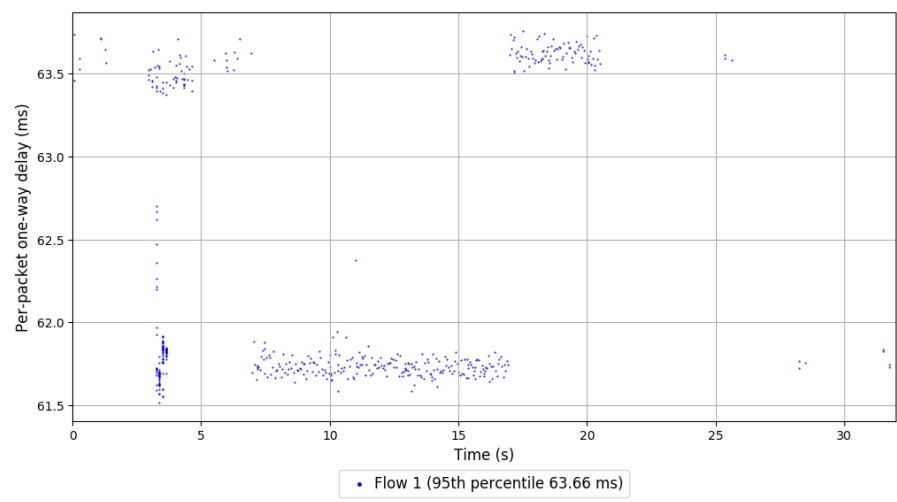
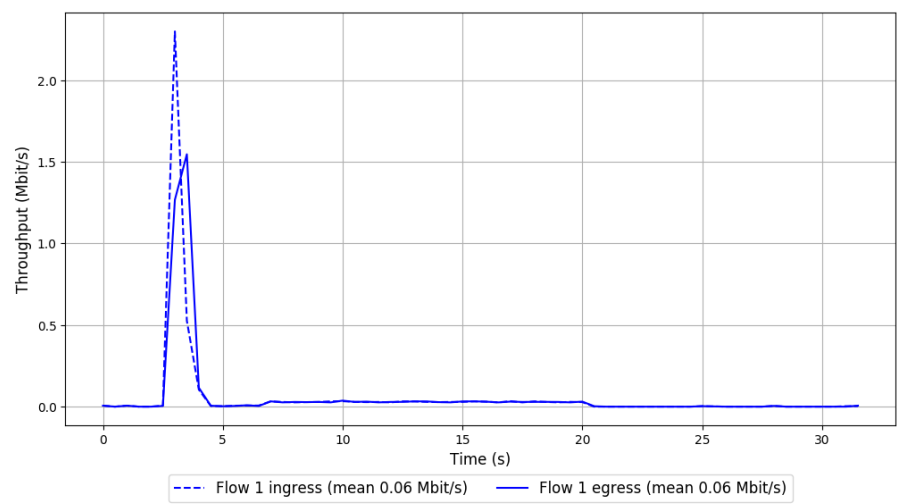
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 19:22:28

End at: 2018-04-17 19:22:58

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.00%

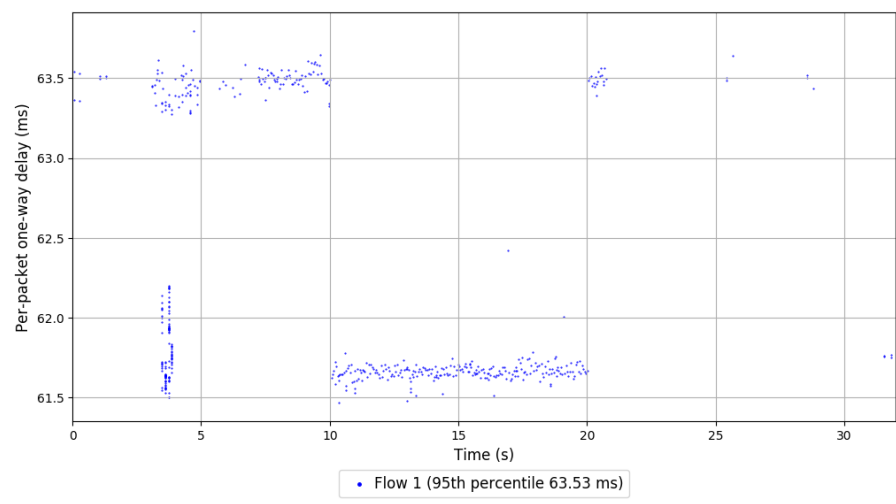
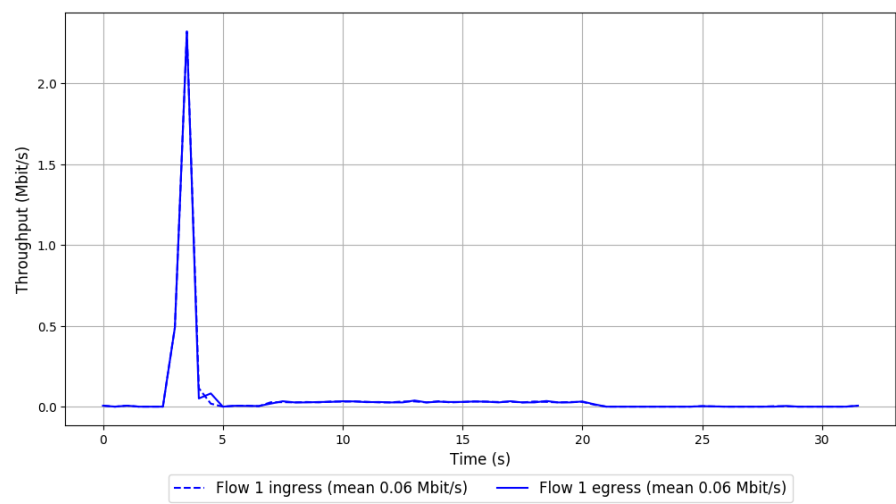
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-17 19:35:36

End at: 2018-04-17 19:36:06

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.564 ms

Loss rate: 0.00%

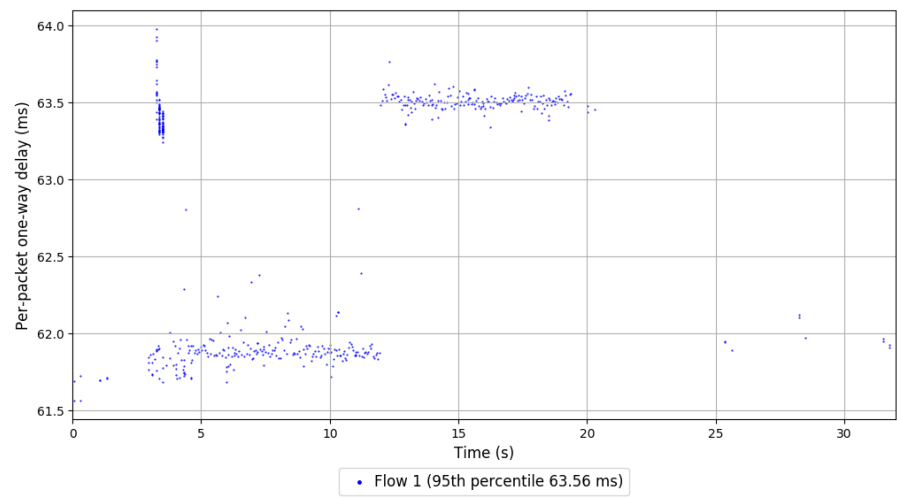
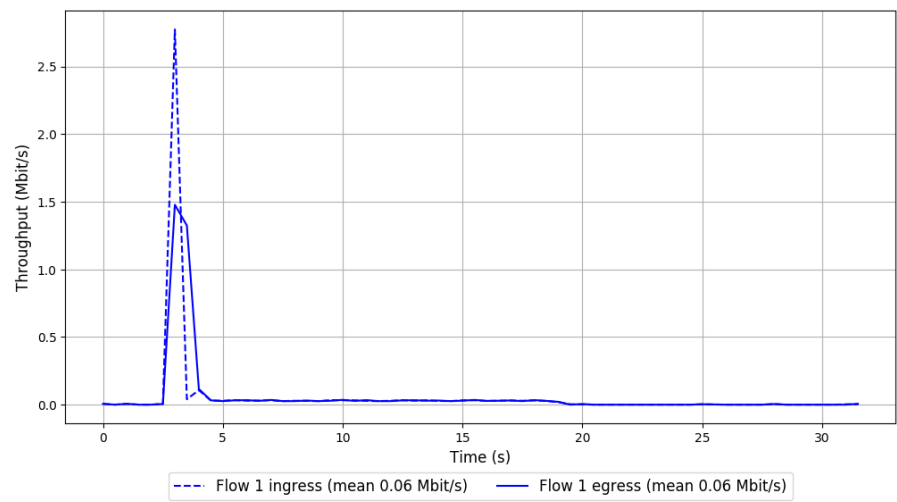
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.564 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-17 19:48:36

End at: 2018-04-17 19:49:06

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.00%

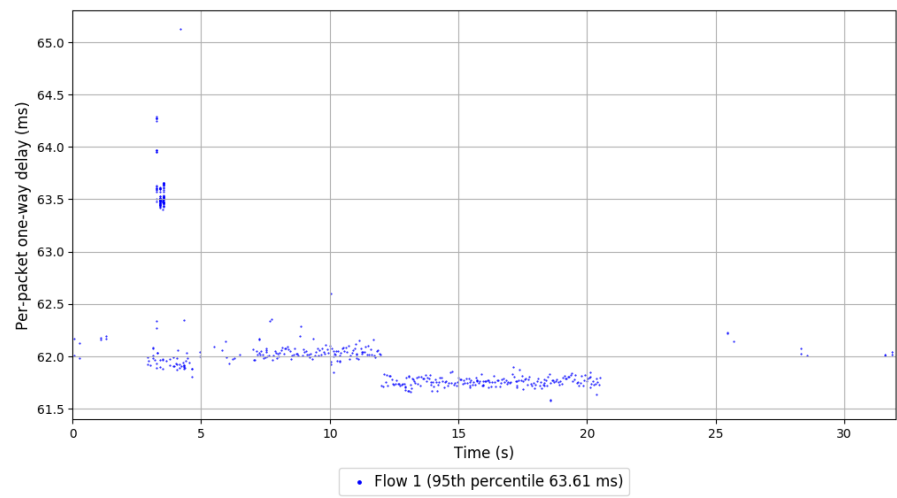
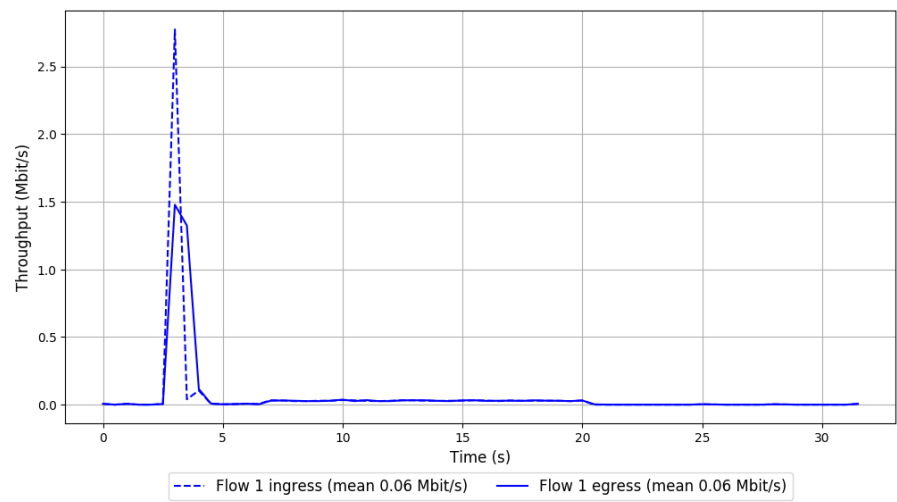
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-17 20:01:44

End at: 2018-04-17 20:02:14

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.978 ms

Loss rate: 0.00%

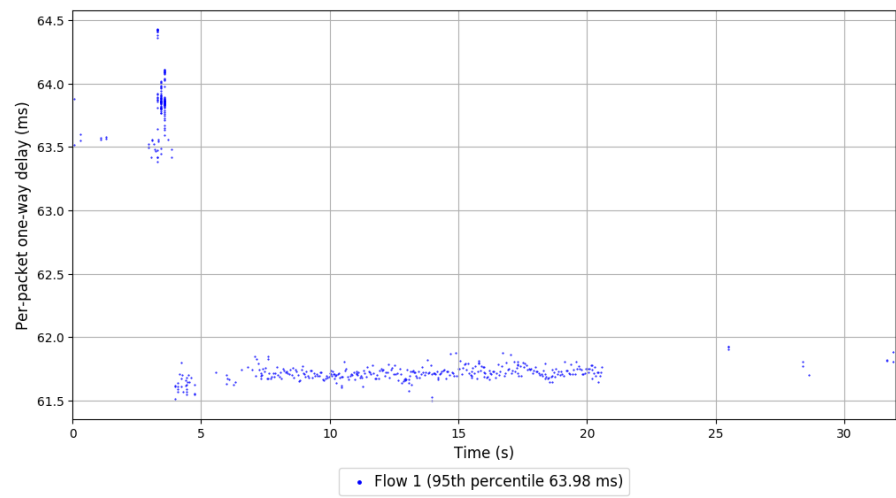
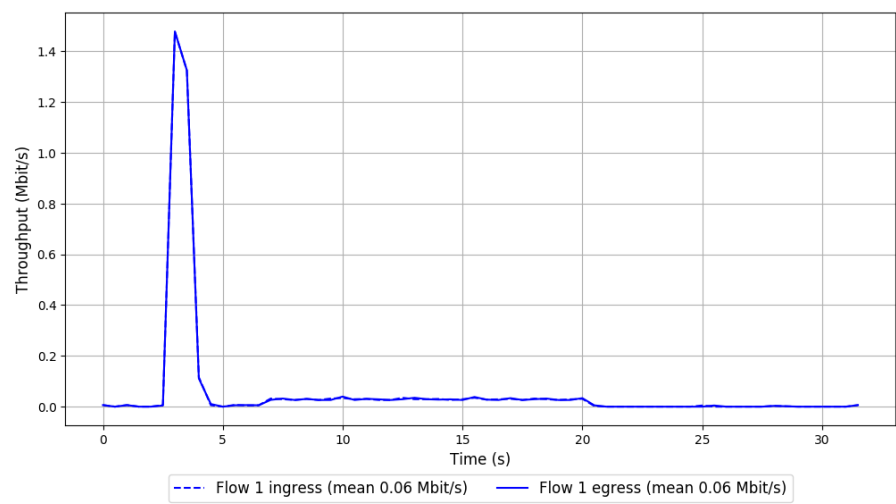
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.978 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-17 20:14:43

End at: 2018-04-17 20:15:13

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.014 ms

Loss rate: 0.00%

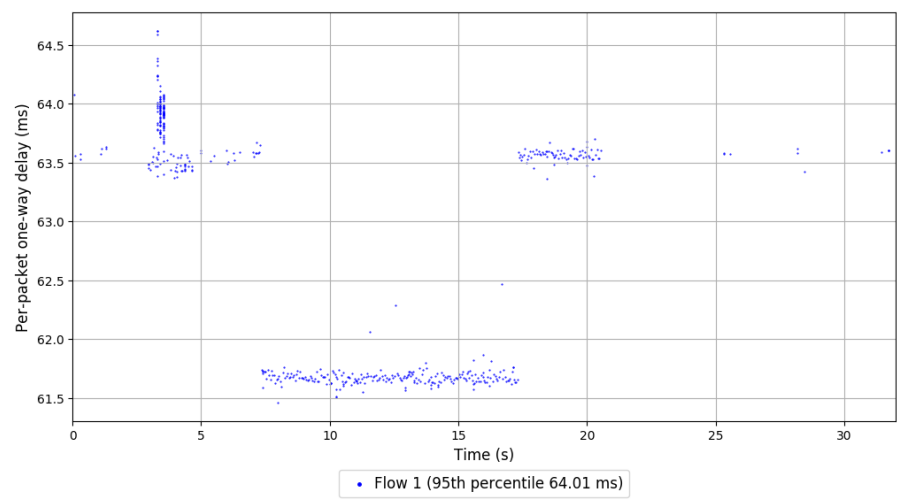
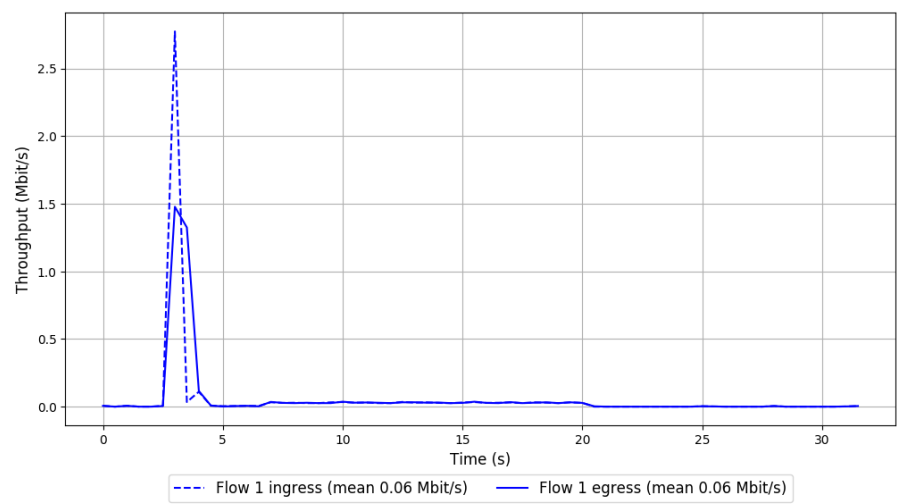
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.014 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-17 20:27:49

End at: 2018-04-17 20:28:19

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.00%

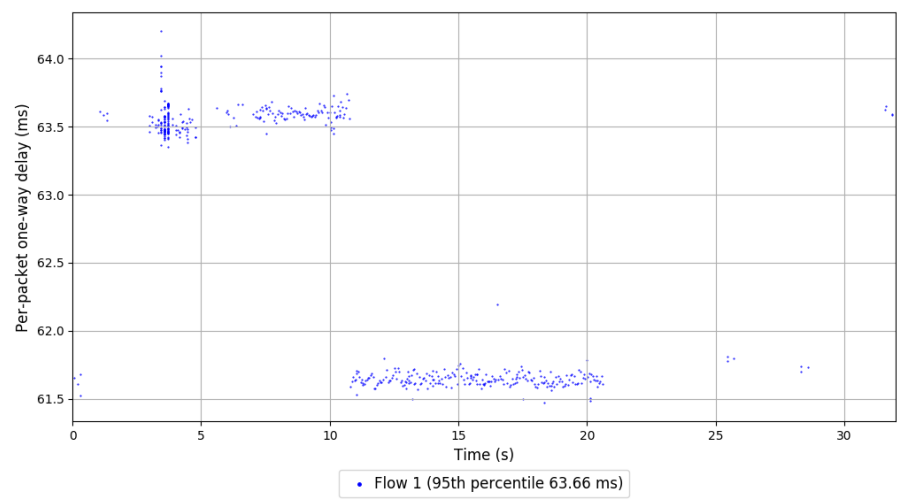
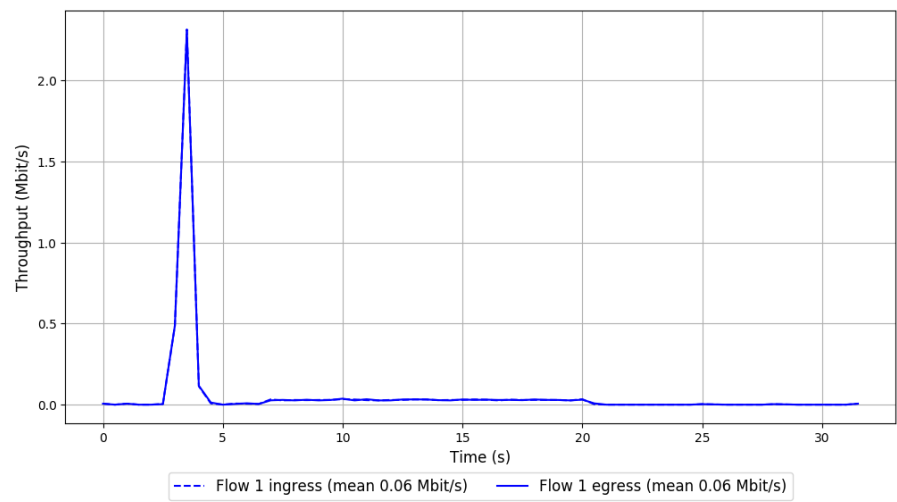
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-17 20:40:58

End at: 2018-04-17 20:41:28

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 0.00%

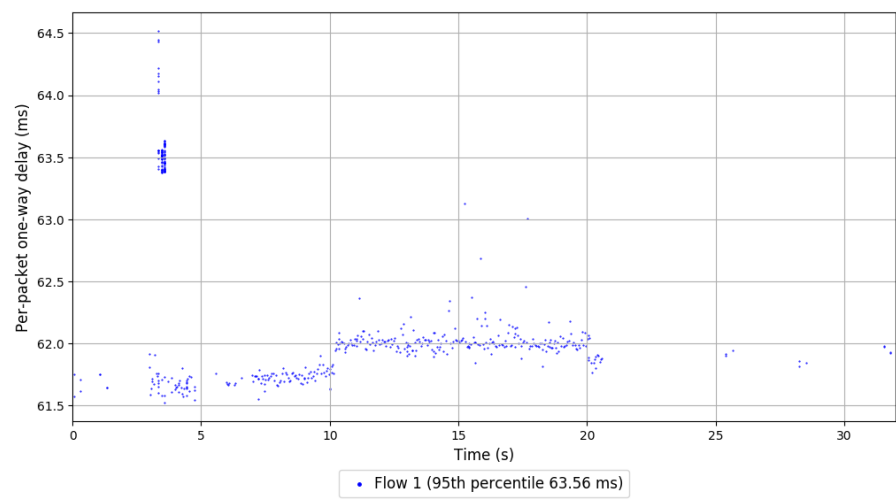
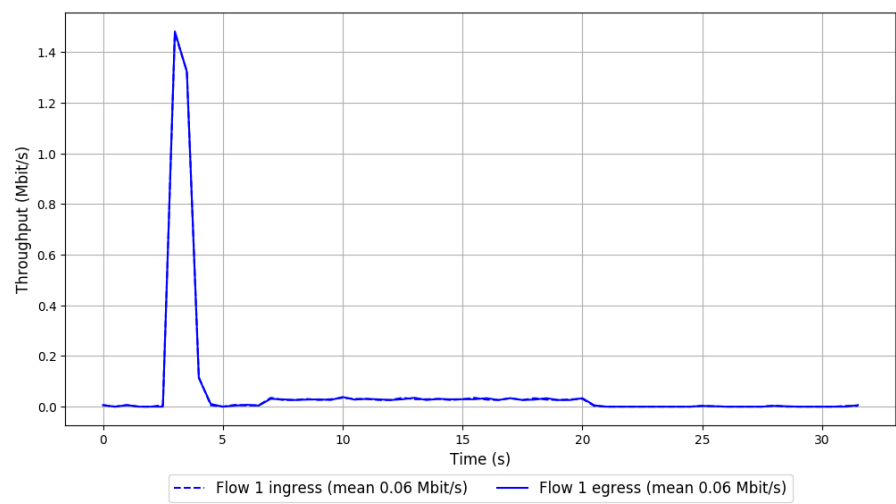
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 20:54:00

End at: 2018-04-17 20:54:30

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.598 ms

Loss rate: 0.00%

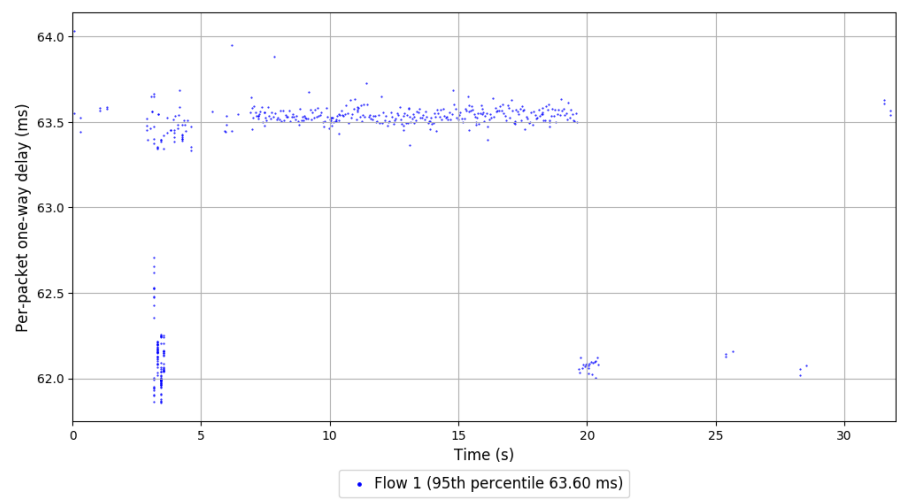
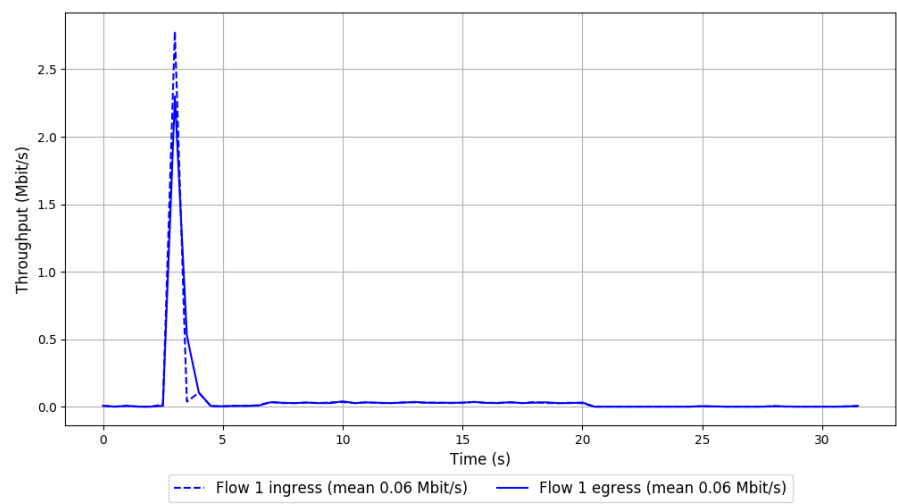
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.598 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-17 18:47:07

End at: 2018-04-17 18:47:37

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.51%

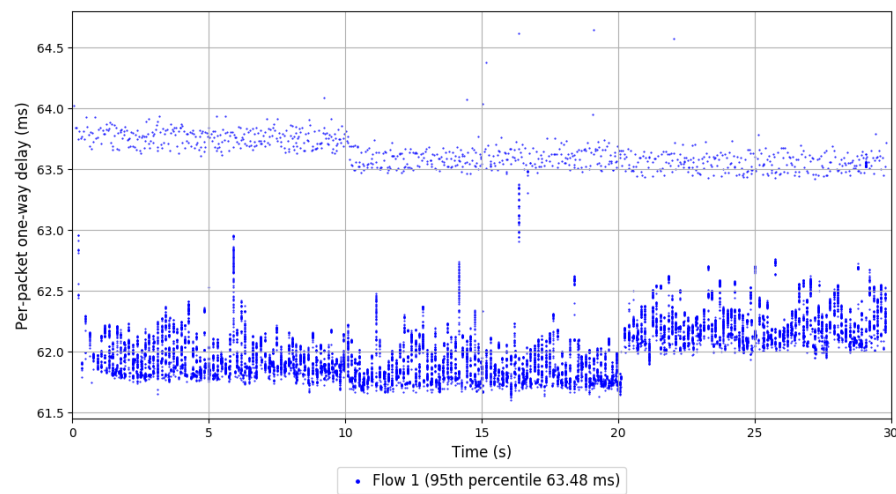
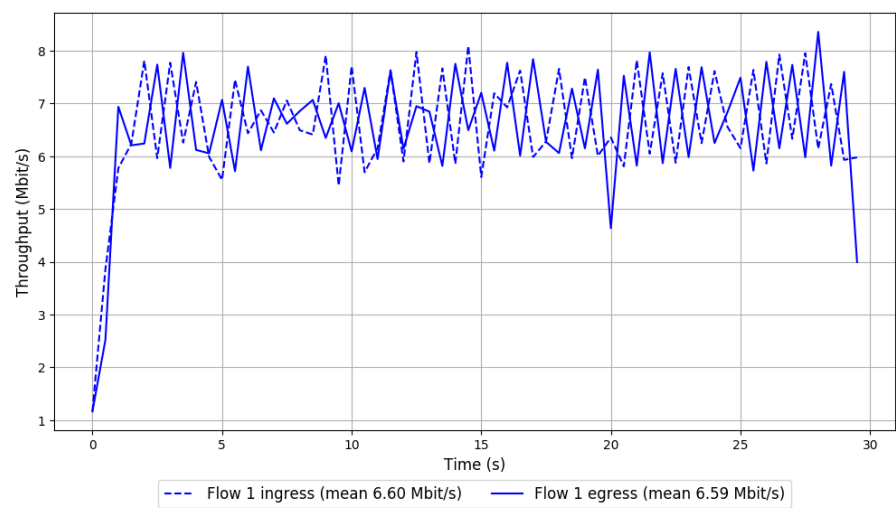
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 63.485 ms

Loss rate: 0.51%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-17 19:00:17

End at: 2018-04-17 19:00:47

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 63.981 ms

Loss rate: 0.49%

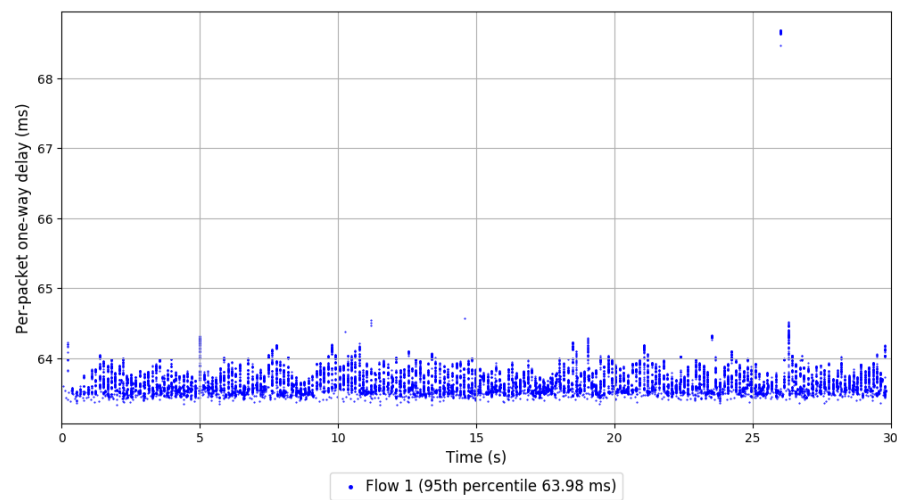
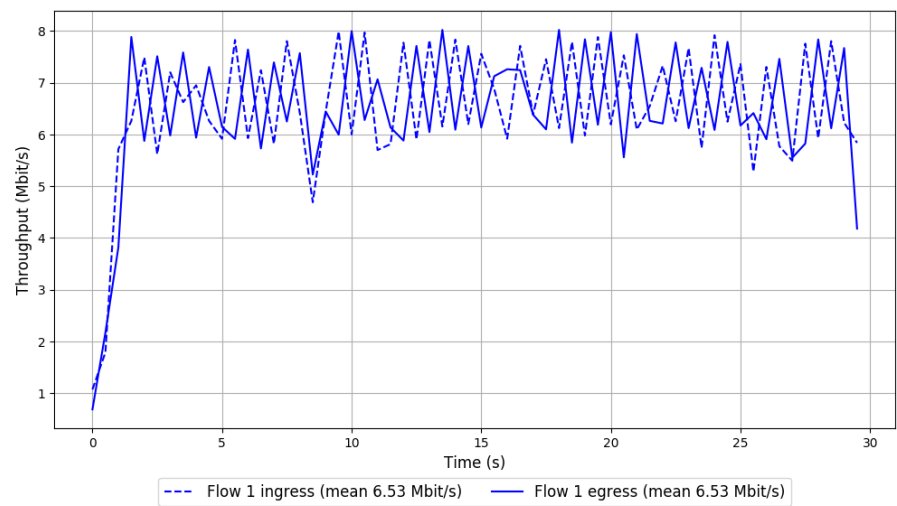
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 63.981 ms

Loss rate: 0.49%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-17 19:13:23

End at: 2018-04-17 19:13:54

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 0.51%

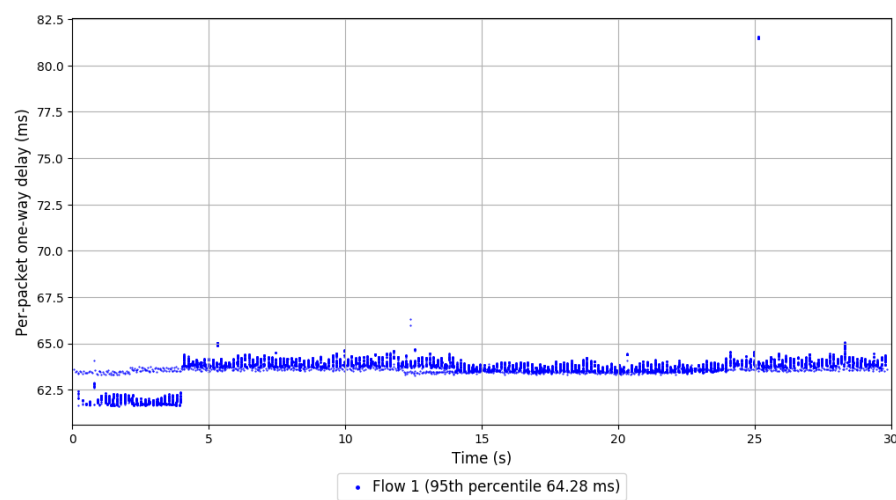
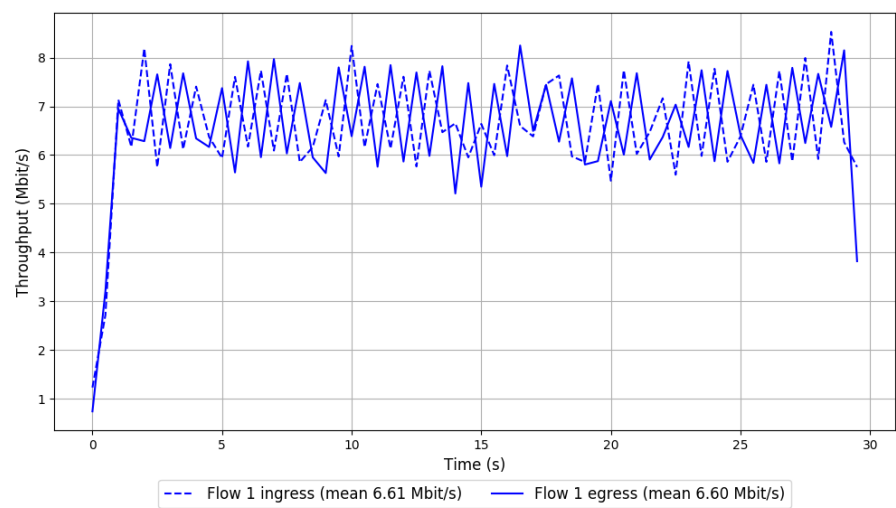
-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 0.51%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-17 19:26:27

End at: 2018-04-17 19:26:57

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.267 ms

Loss rate: 0.13%

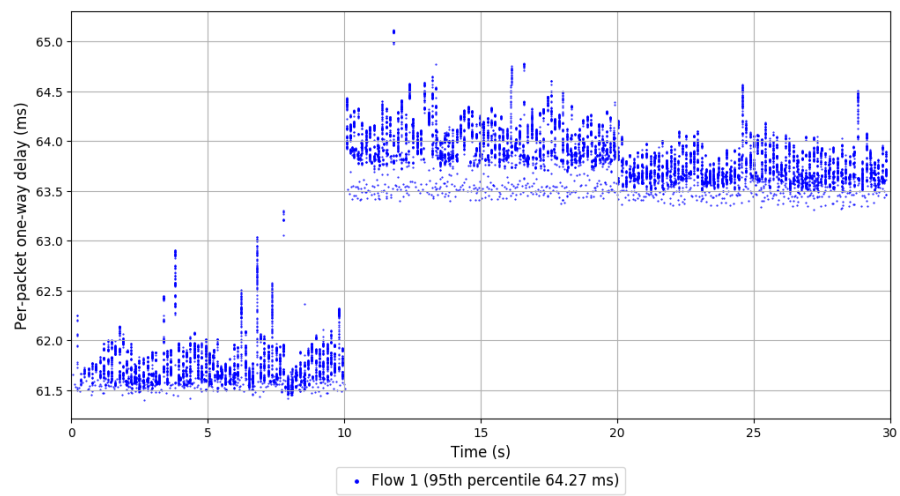
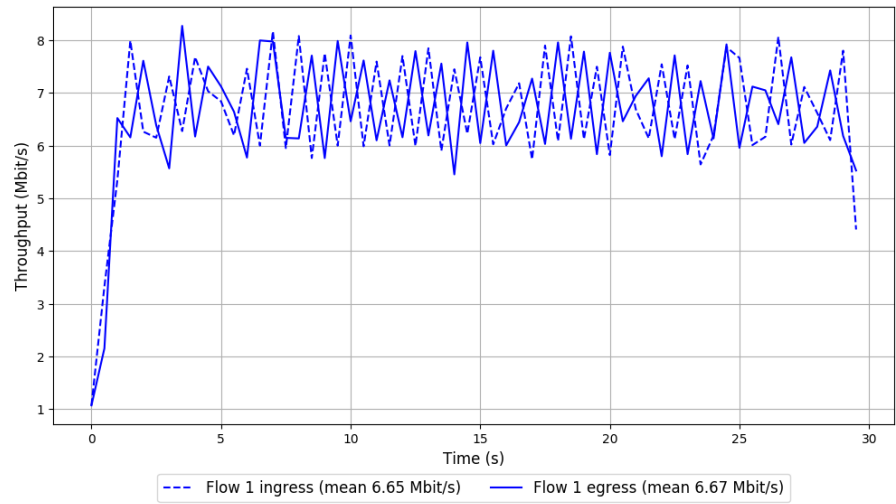
-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.267 ms

Loss rate: 0.13%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-17 19:39:34

End at: 2018-04-17 19:40:04

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 64.130 ms

Loss rate: 0.50%

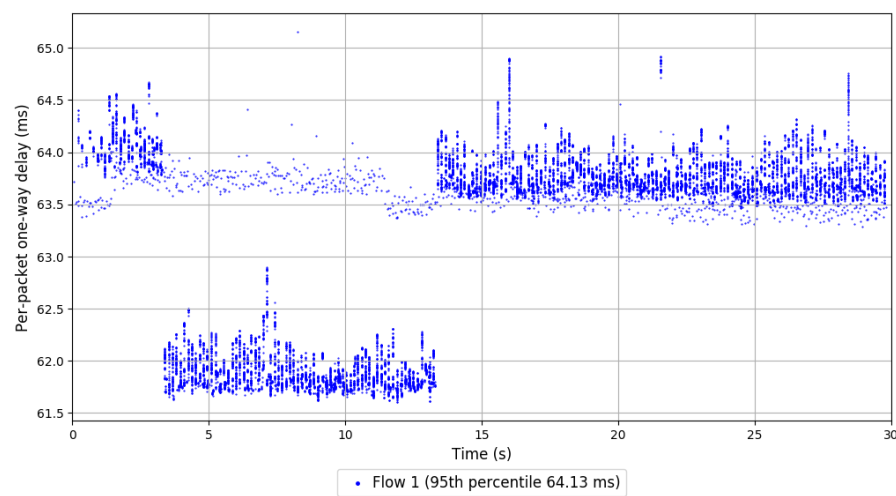
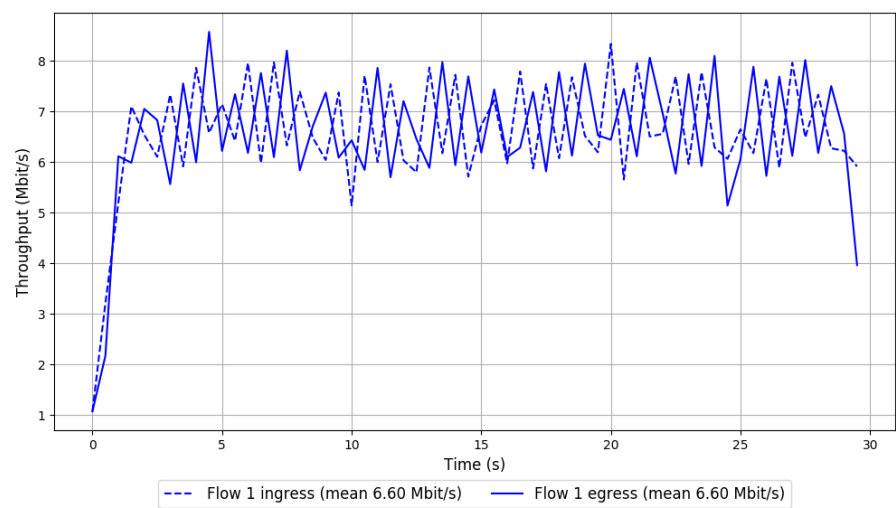
-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 64.130 ms

Loss rate: 0.50%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-17 19:52:43

End at: 2018-04-17 19:53:13

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.046 ms

Loss rate: 0.49%

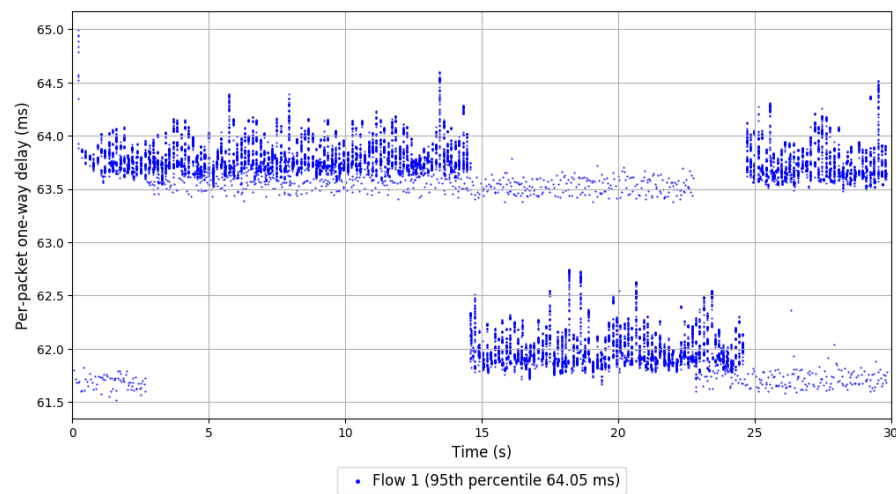
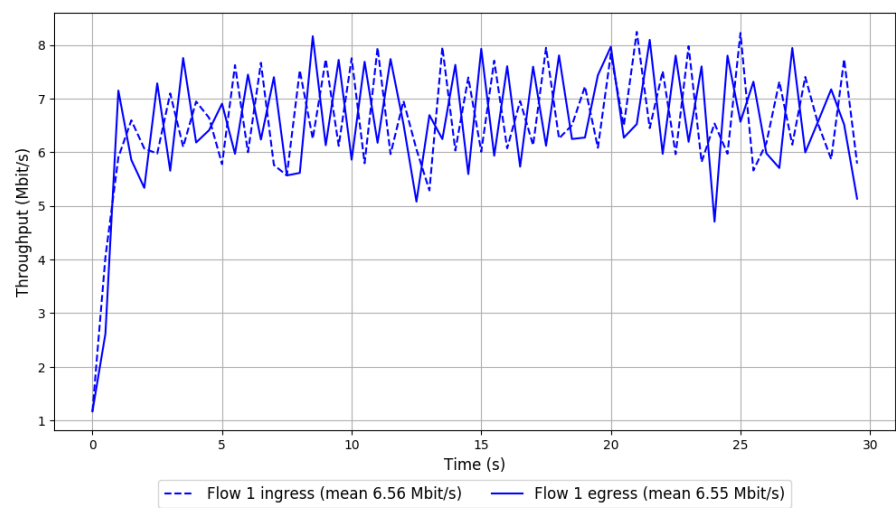
-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.046 ms

Loss rate: 0.49%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-17 20:05:47

End at: 2018-04-17 20:06:17

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 63.906 ms

Loss rate: 0.35%

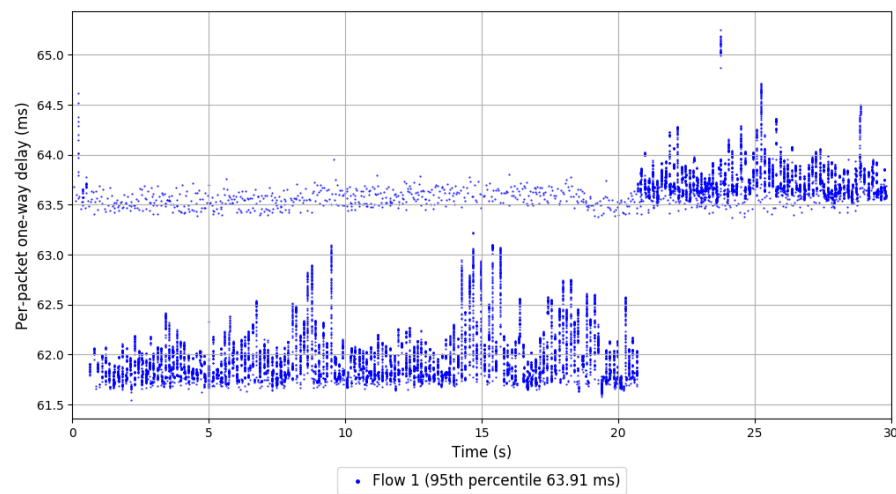
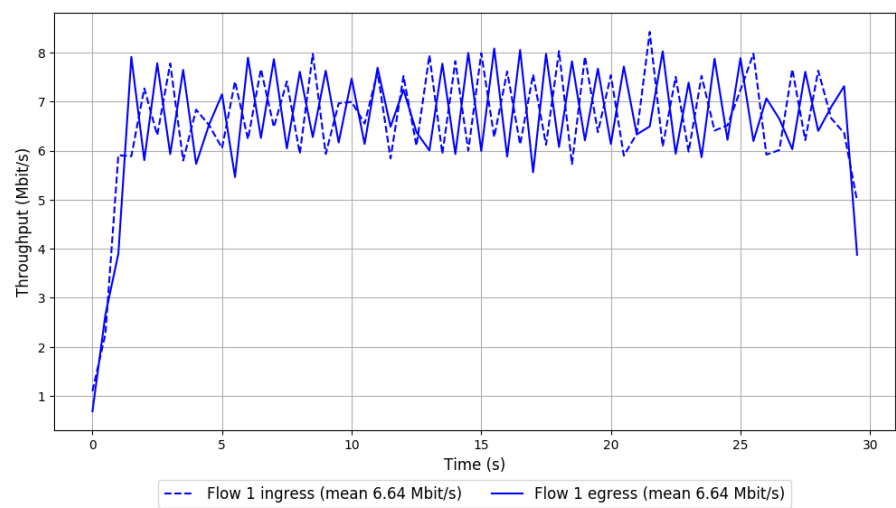
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 63.906 ms

Loss rate: 0.35%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-17 20:18:46

End at: 2018-04-17 20:19:16

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 63.941 ms

Loss rate: 0.49%

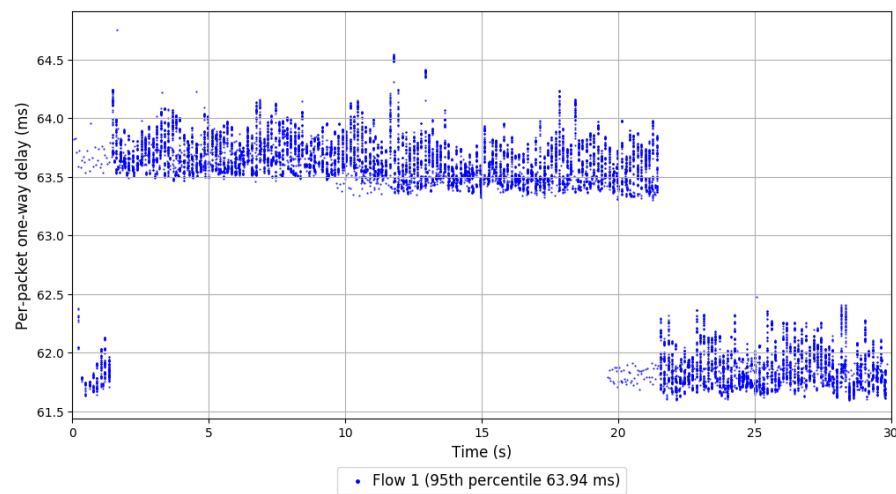
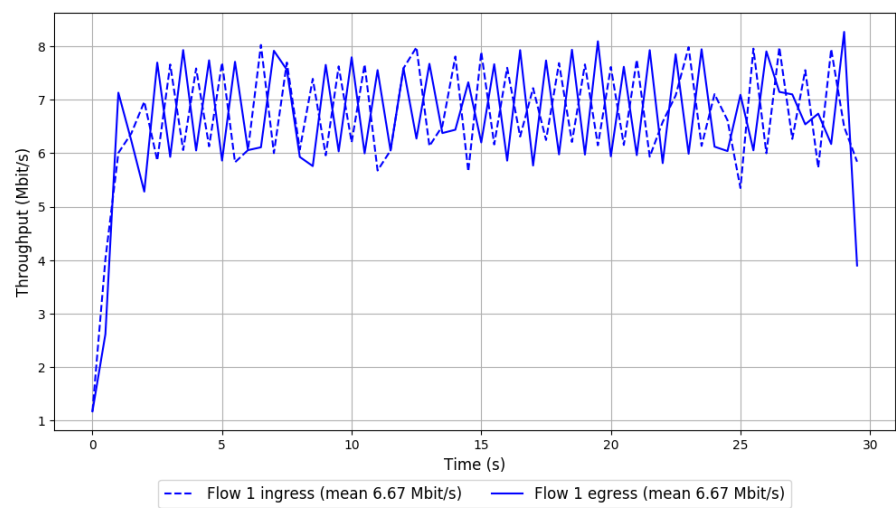
-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 63.941 ms

Loss rate: 0.49%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-17 20:31:50

End at: 2018-04-17 20:32:20

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.206 ms

Loss rate: 0.51%

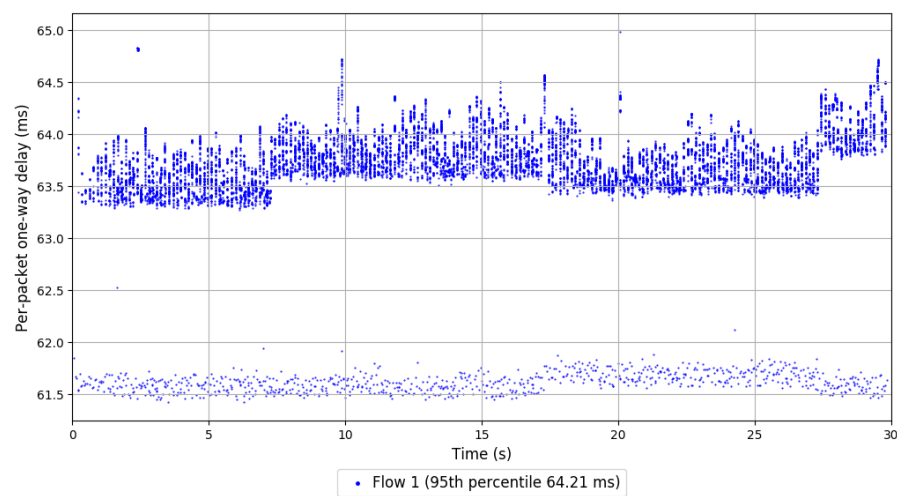
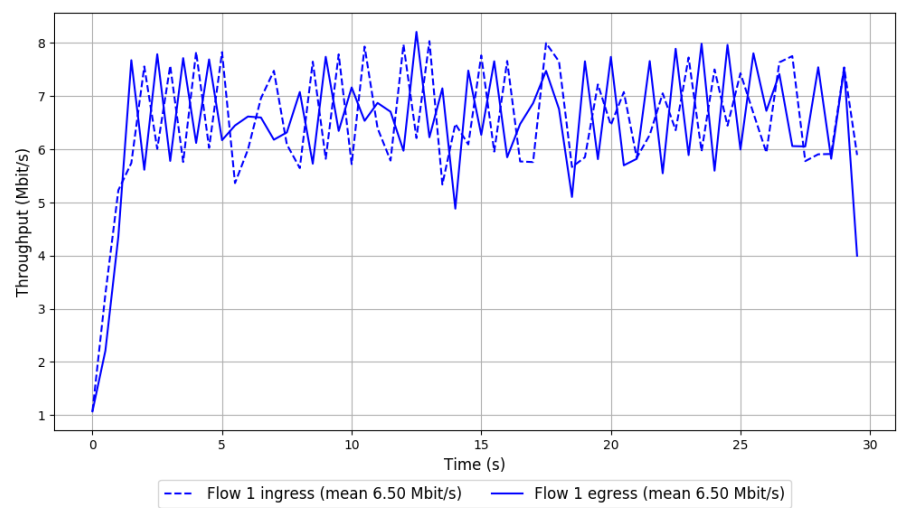
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 64.206 ms

Loss rate: 0.51%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-17 20:44:59

End at: 2018-04-17 20:45:29

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.274 ms

Loss rate: 0.45%

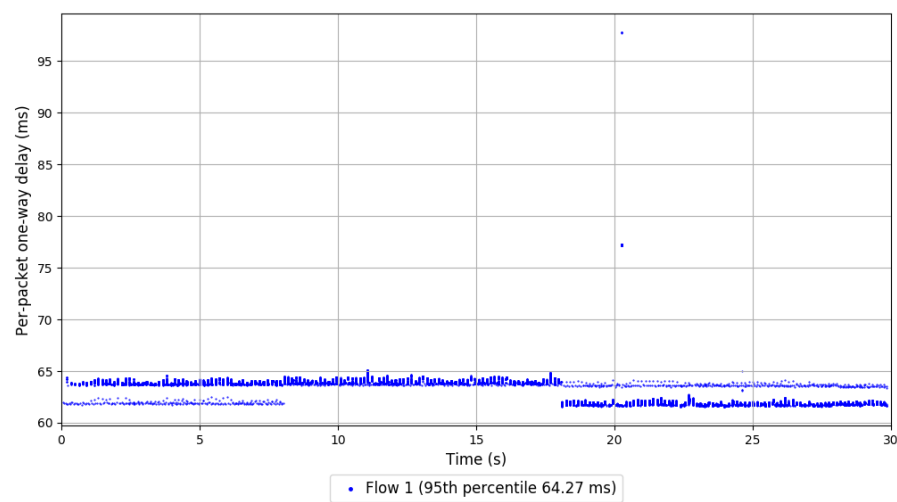
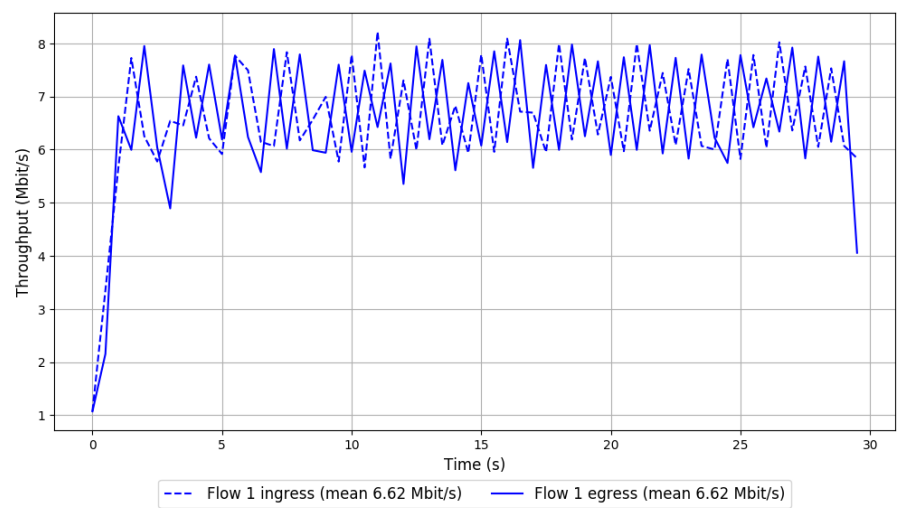
-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.274 ms

Loss rate: 0.45%

Run 10: Report of Sprout — Data Link

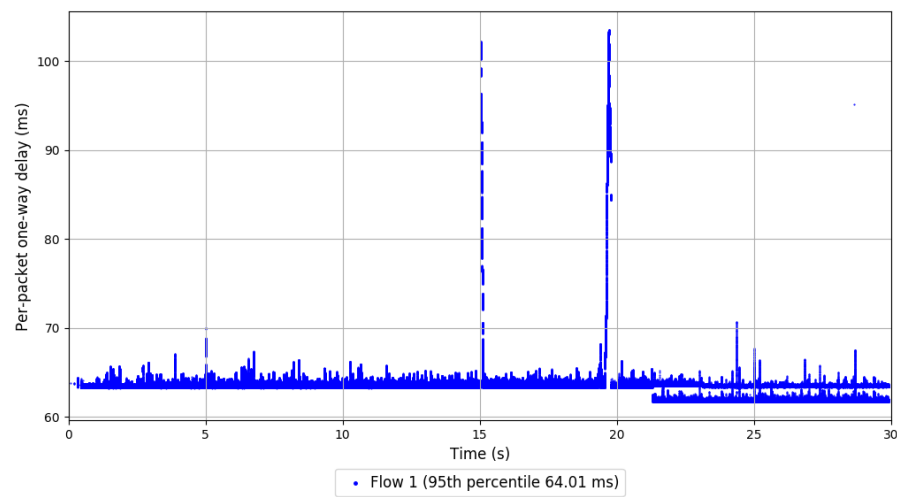
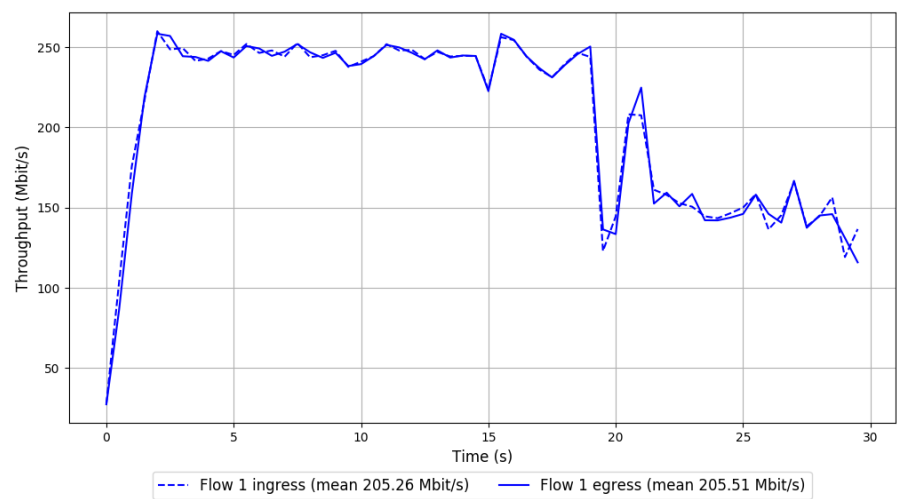


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 18:53:14
End at: 2018-04-17 18:53:44

# Below is generated by plot.py at 2018-04-17 23:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.51 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 205.51 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.30%
```


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

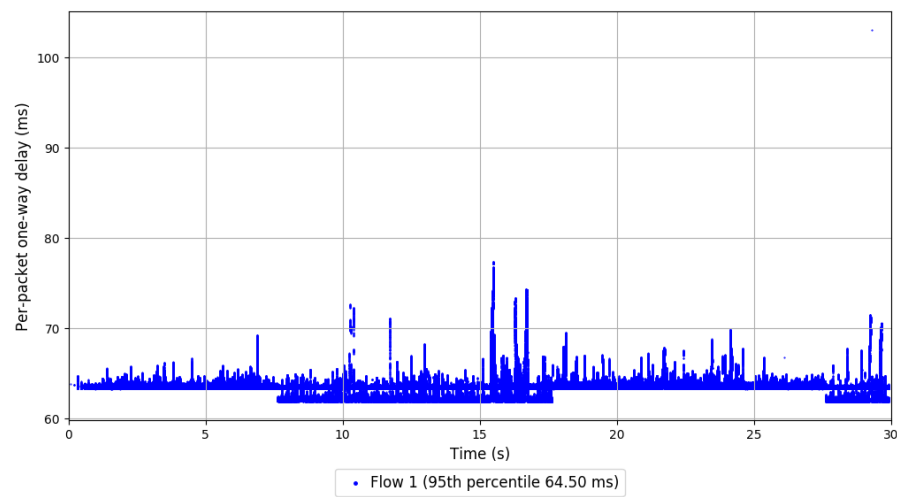
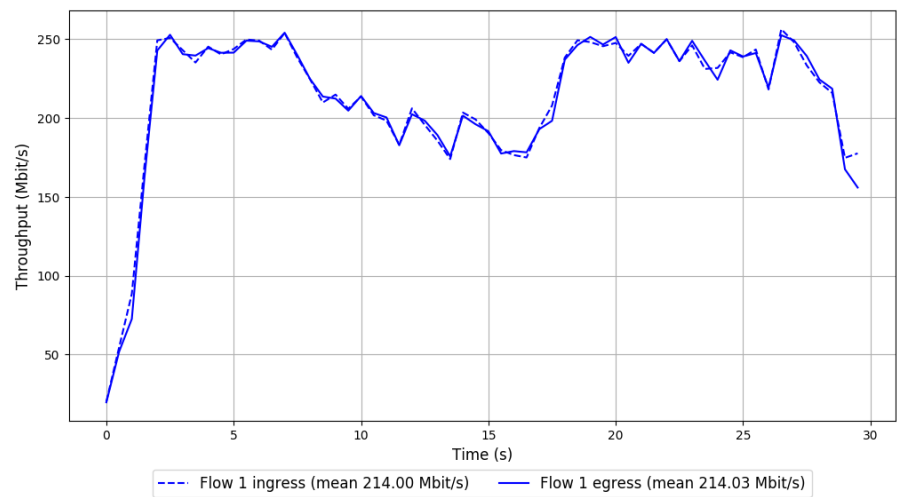


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 19:06:20
End at: 2018-04-17 19:06:50

# Below is generated by plot.py at 2018-04-17 23:38:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.03 Mbit/s
95th percentile per-packet one-way delay: 64.496 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 214.03 Mbit/s
95th percentile per-packet one-way delay: 64.496 ms
Loss rate: 0.41%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 19:19:26

End at: 2018-04-17 19:19:56

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.84 Mbit/s

95th percentile per-packet one-way delay: 63.758 ms

Loss rate: 0.50%

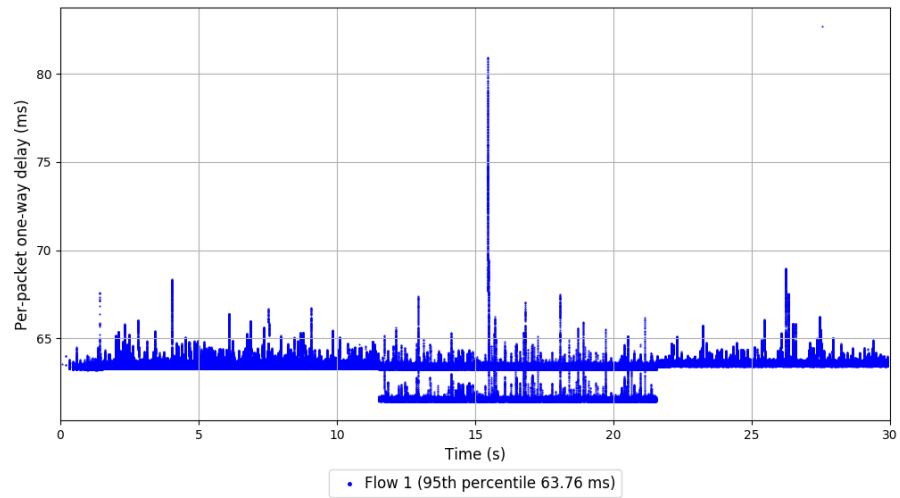
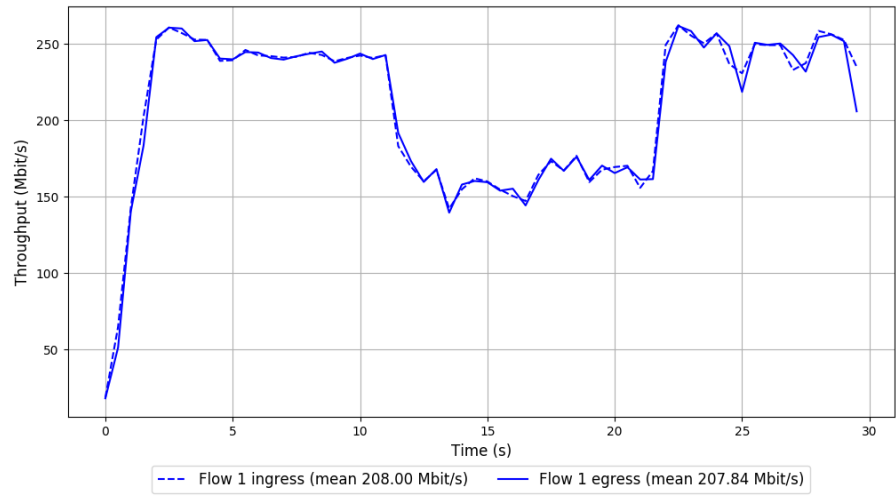
-- Flow 1:

Average throughput: 207.84 Mbit/s

95th percentile per-packet one-way delay: 63.758 ms

Loss rate: 0.50%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 19:32:32

End at: 2018-04-17 19:33:02

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.10 Mbit/s

95th percentile per-packet one-way delay: 64.020 ms

Loss rate: 0.41%

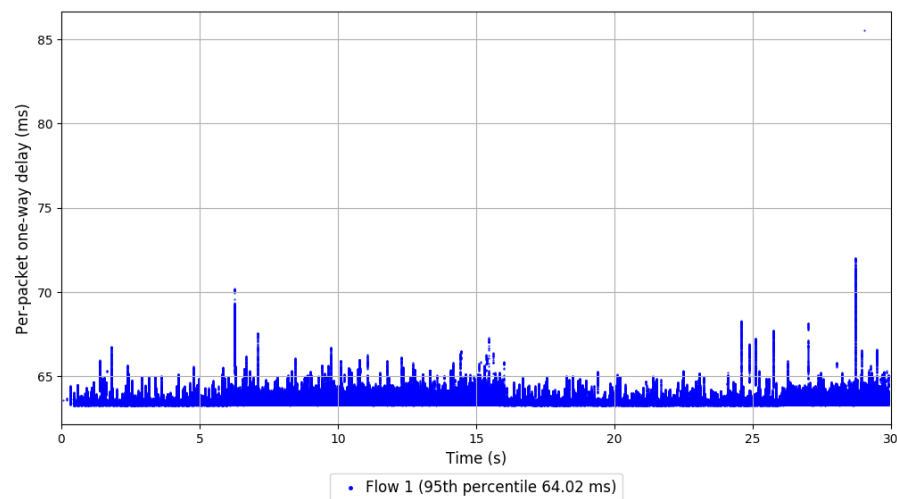
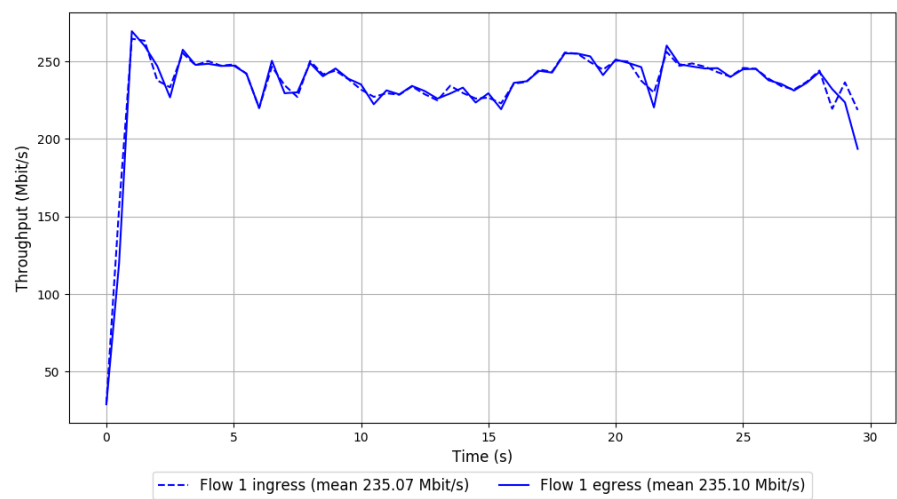
-- Flow 1:

Average throughput: 235.10 Mbit/s

95th percentile per-packet one-way delay: 64.020 ms

Loss rate: 0.41%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 19:45:40

End at: 2018-04-17 19:46:10

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.03 Mbit/s

95th percentile per-packet one-way delay: 63.852 ms

Loss rate: 0.24%

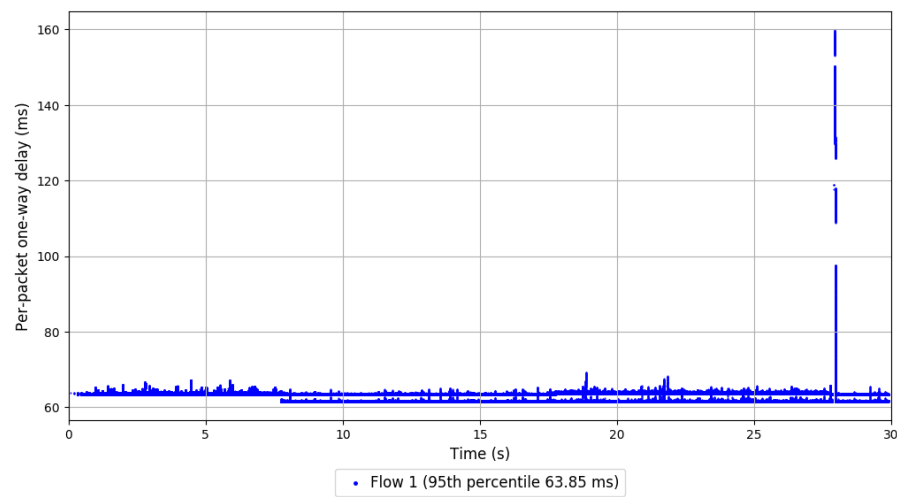
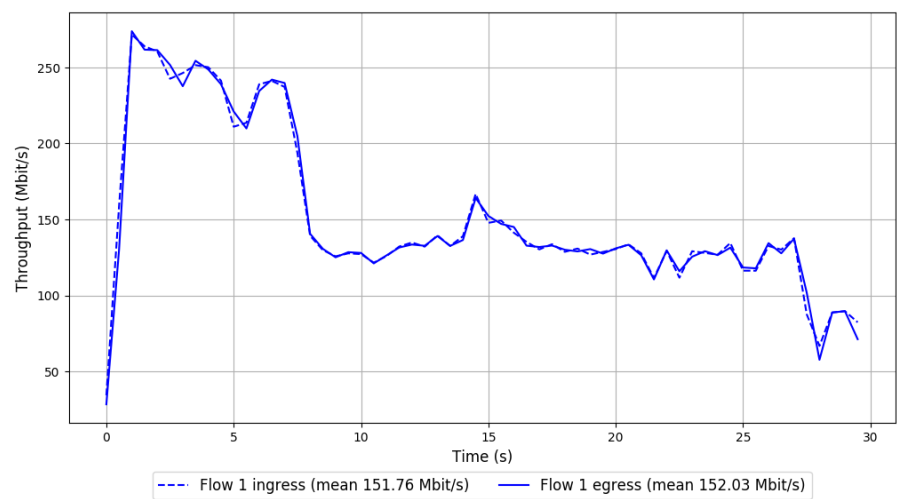
-- Flow 1:

Average throughput: 152.03 Mbit/s

95th percentile per-packet one-way delay: 63.852 ms

Loss rate: 0.24%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 19:58:48

End at: 2018-04-17 19:59:18

Below is generated by plot.py at 2018-04-17 23:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.42 Mbit/s

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

Loss rate: 0.46%

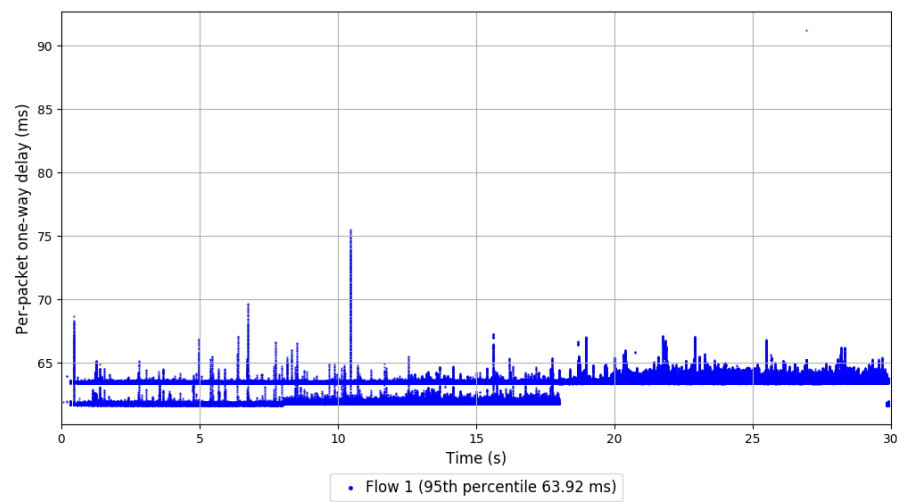
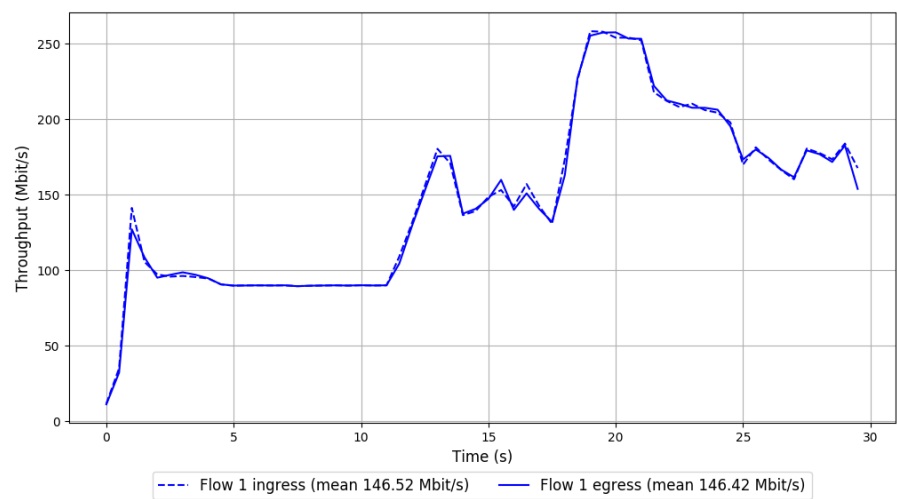
-- Flow 1:

Average throughput: 146.42 Mbit/s

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

Loss rate: 0.46%

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

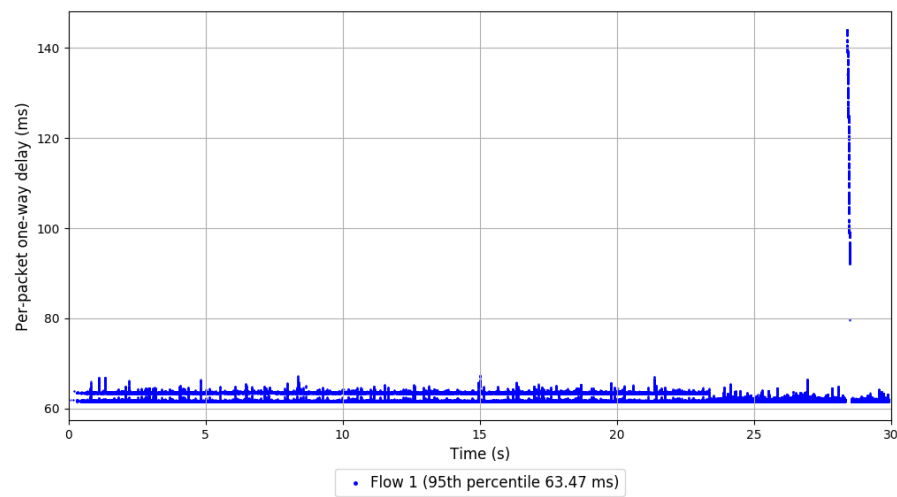
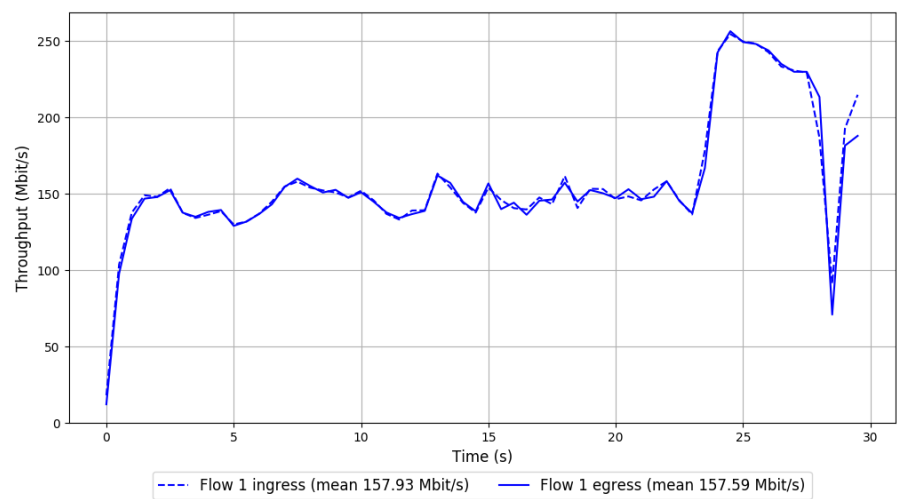


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 20:11:44
End at: 2018-04-17 20:12:14

# Below is generated by plot.py at 2018-04-17 23:41:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.59 Mbit/s
95th percentile per-packet one-way delay: 63.474 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 157.59 Mbit/s
95th percentile per-packet one-way delay: 63.474 ms
Loss rate: 0.63%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 20:24:49

End at: 2018-04-17 20:25:19

Below is generated by plot.py at 2018-04-17 23:42:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.87 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.42%

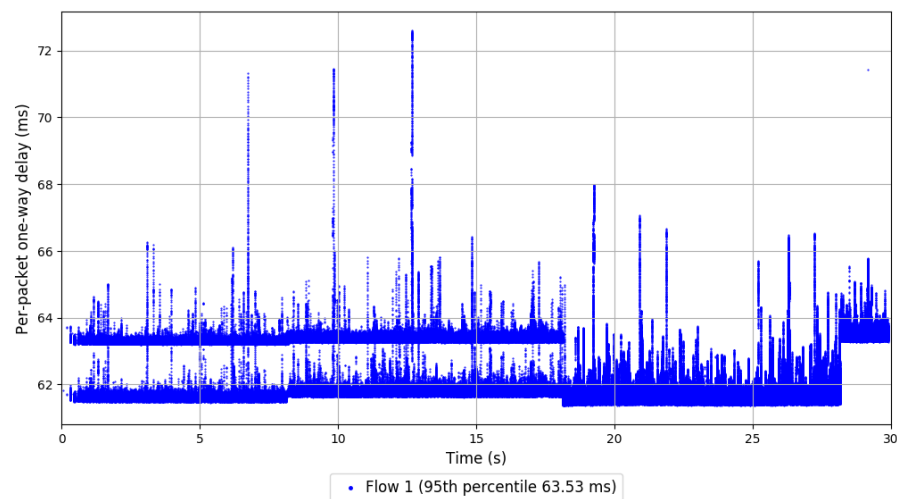
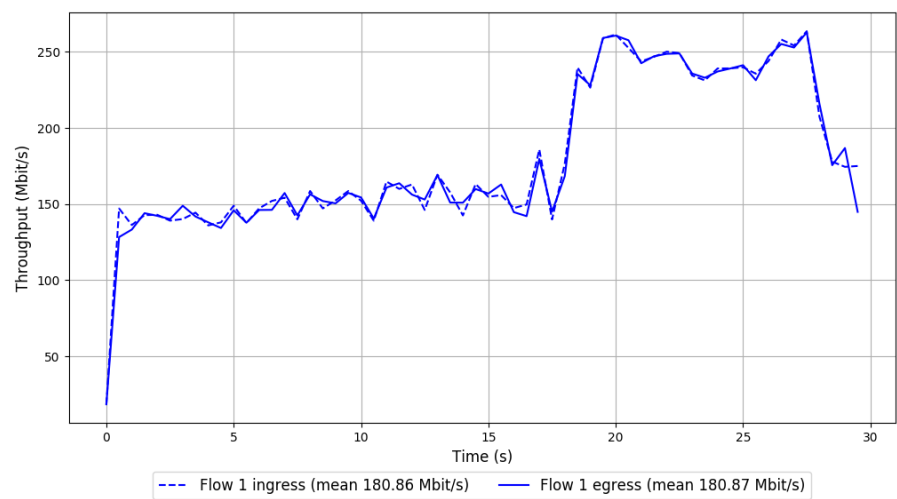
-- Flow 1:

Average throughput: 180.87 Mbit/s

95th percentile per-packet one-way delay: 63.530 ms

Loss rate: 0.42%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 20:37:57

End at: 2018-04-17 20:38:27

Below is generated by plot.py at 2018-04-17 23:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.72 Mbit/s

95th percentile per-packet one-way delay: 64.498 ms

Loss rate: 0.52%

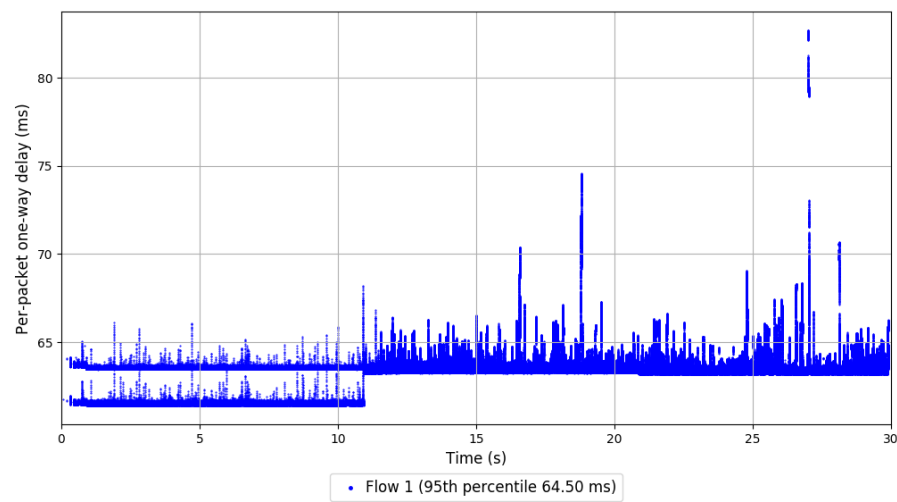
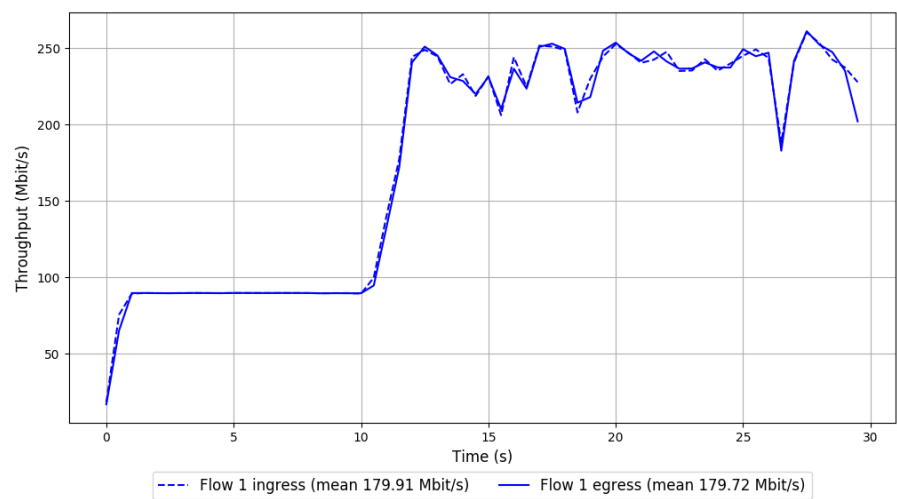
-- Flow 1:

Average throughput: 179.72 Mbit/s

95th percentile per-packet one-way delay: 64.498 ms

Loss rate: 0.52%

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

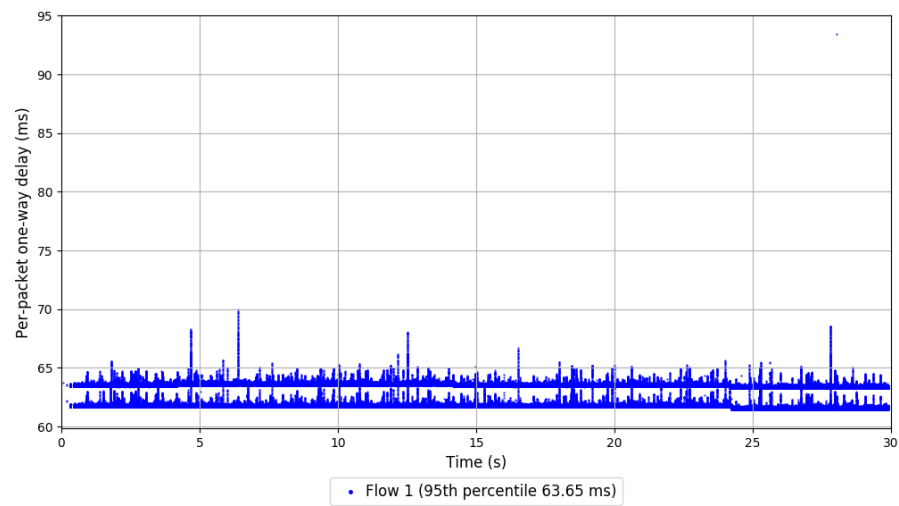
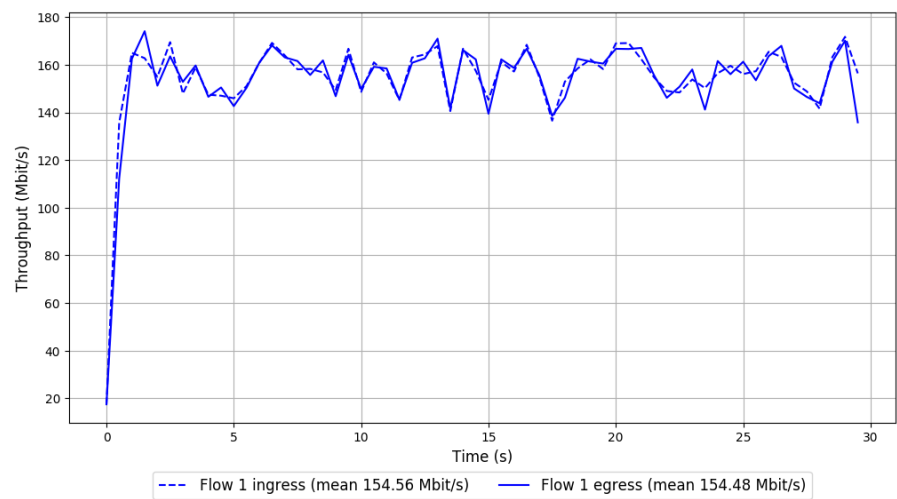


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 20:51:03
End at: 2018-04-17 20:51:33

# Below is generated by plot.py at 2018-04-17 23:43:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.48 Mbit/s
95th percentile per-packet one-way delay: 63.652 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 154.48 Mbit/s
95th percentile per-packet one-way delay: 63.652 ms
Loss rate: 0.47%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 18:50:02

End at: 2018-04-17 18:50:32

Below is generated by plot.py at 2018-04-17 23:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.38%

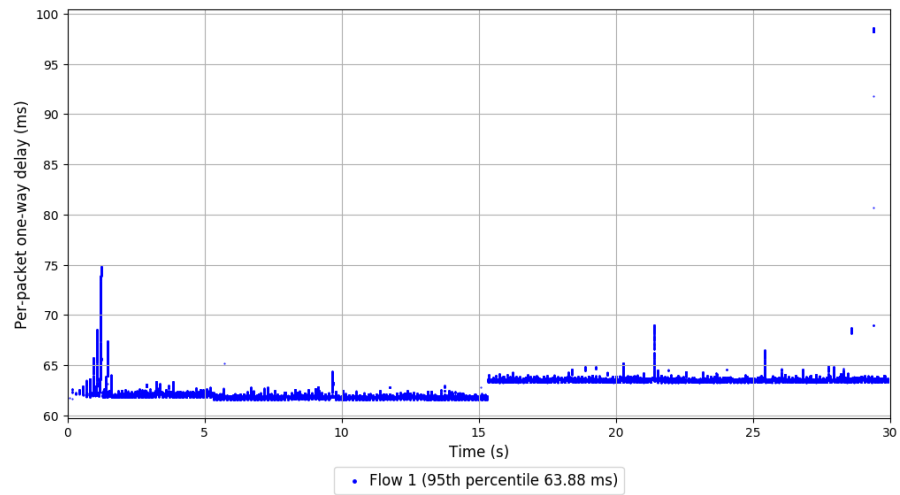
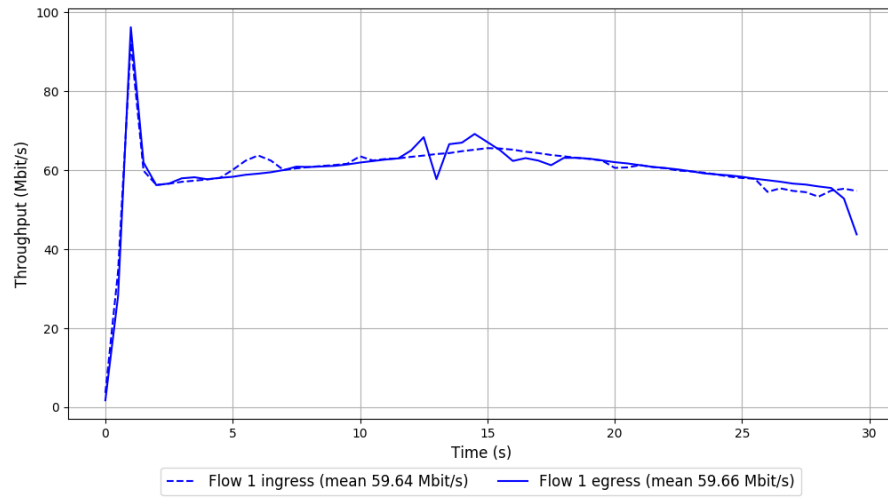
-- Flow 1:

Average throughput: 59.66 Mbit/s

95th percentile per-packet one-way delay: 63.877 ms

Loss rate: 0.38%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 19:03:10

End at: 2018-04-17 19:03:40

Below is generated by plot.py at 2018-04-17 23:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 65.334 ms

Loss rate: 0.41%

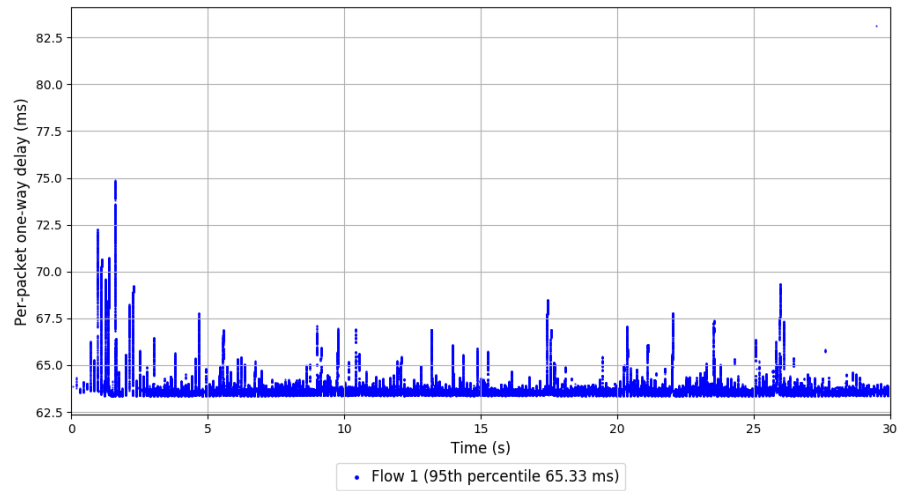
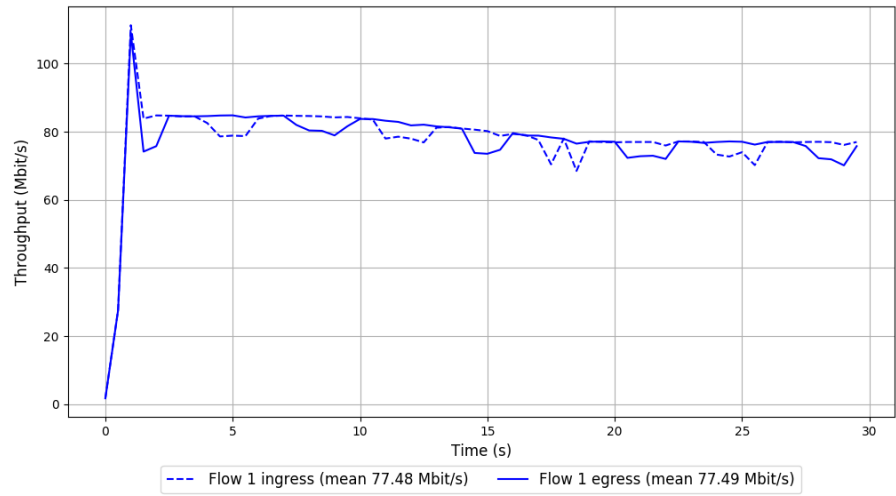
-- Flow 1:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 65.334 ms

Loss rate: 0.41%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 19:16:15

End at: 2018-04-17 19:16:45

Below is generated by plot.py at 2018-04-17 23:43:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 64.234 ms

Loss rate: 0.39%

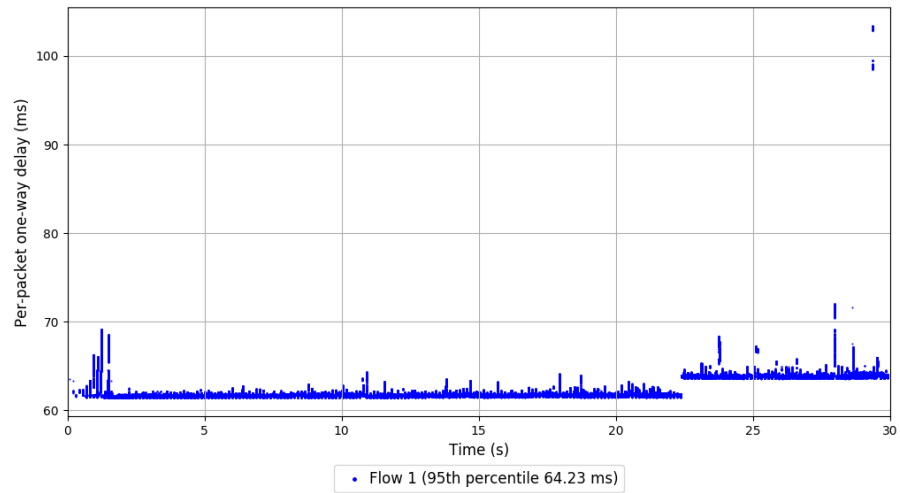
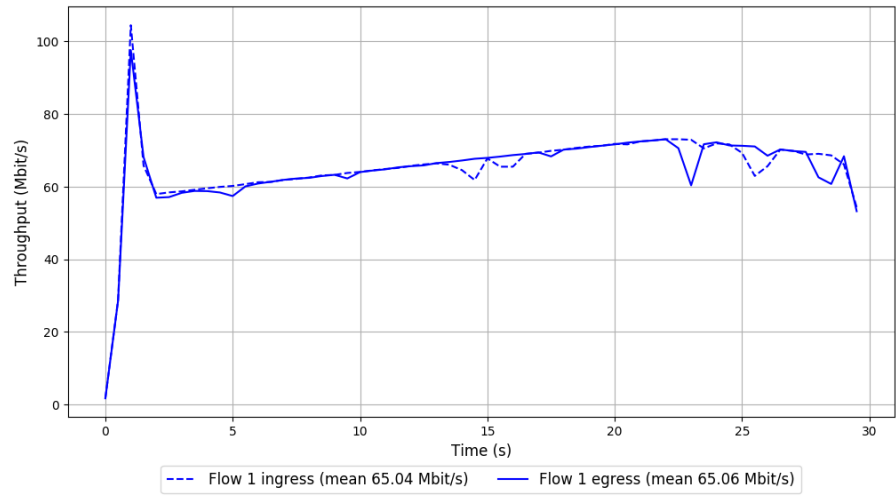
-- Flow 1:

Average throughput: 65.06 Mbit/s

95th percentile per-packet one-way delay: 64.234 ms

Loss rate: 0.39%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 19:29:21

End at: 2018-04-17 19:29:51

Below is generated by plot.py at 2018-04-17 23:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.51 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.47%

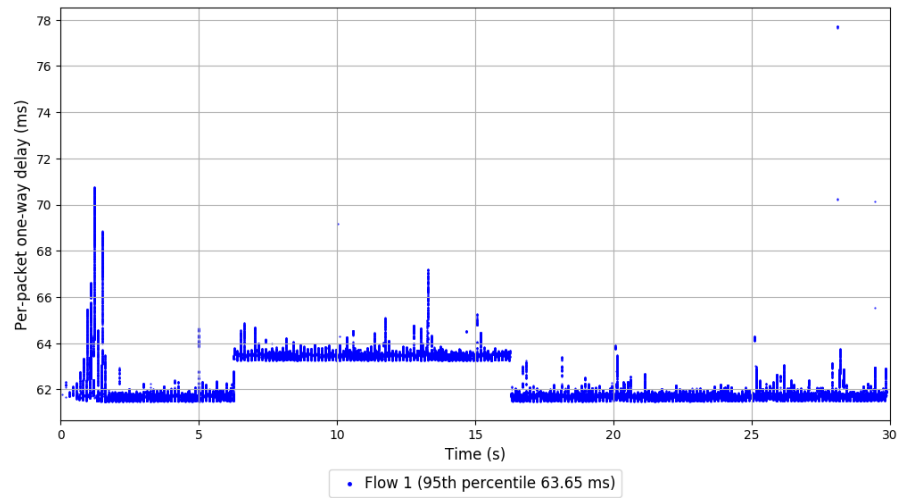
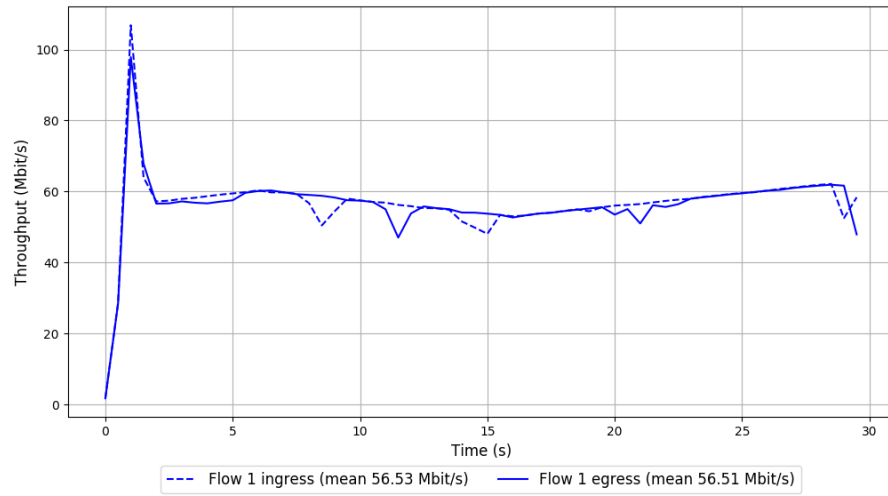
-- Flow 1:

Average throughput: 56.51 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.47%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 19:42:28

End at: 2018-04-17 19:42:58

Below is generated by plot.py at 2018-04-17 23:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.44 Mbit/s

95th percentile per-packet one-way delay: 63.980 ms

Loss rate: 0.40%

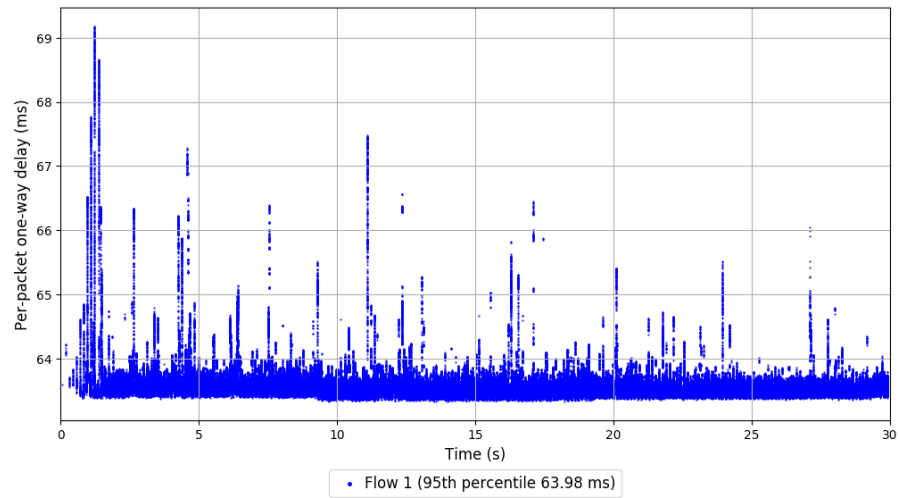
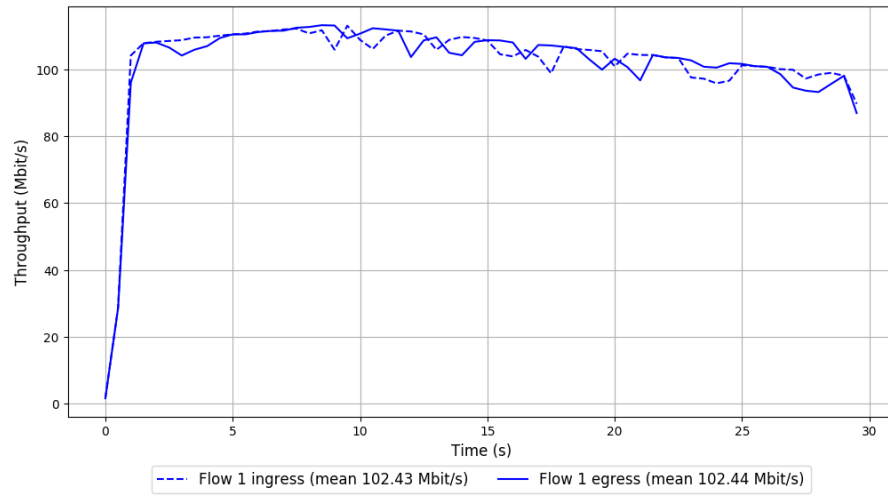
-- Flow 1:

Average throughput: 102.44 Mbit/s

95th percentile per-packet one-way delay: 63.980 ms

Loss rate: 0.40%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 19:55:37

End at: 2018-04-17 19:56:07

Below is generated by plot.py at 2018-04-17 23:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 0.20%

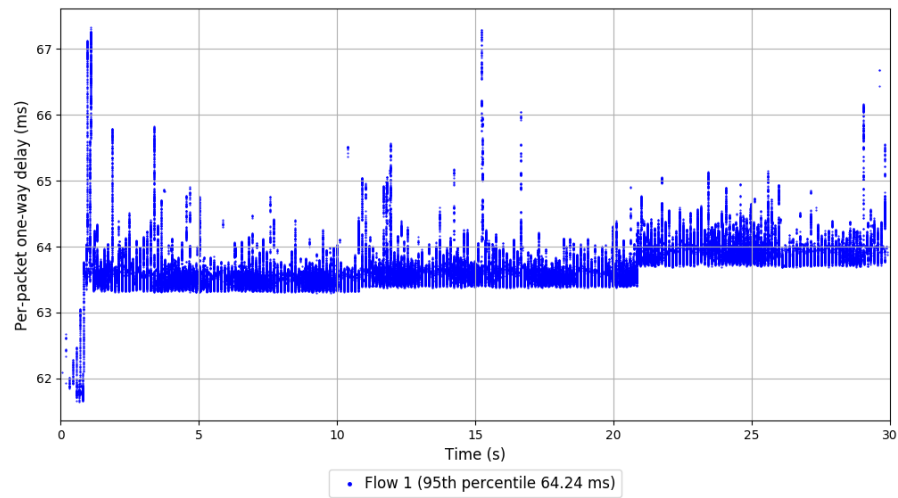
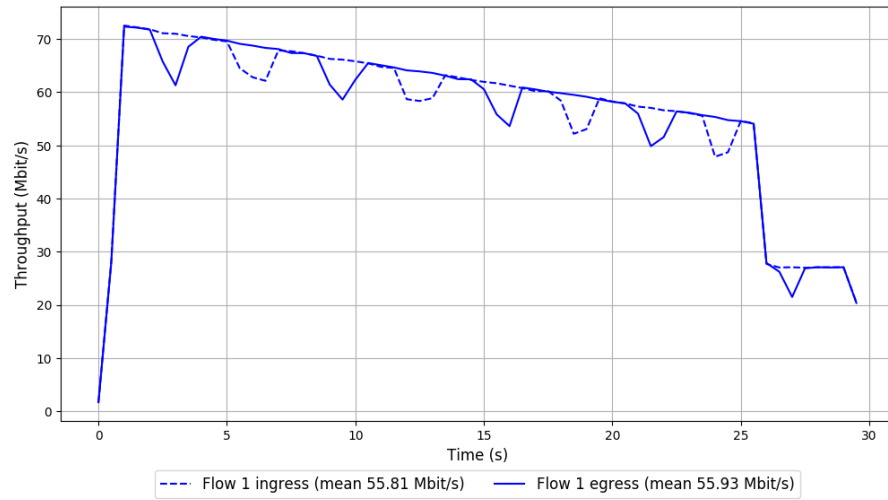
-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 0.20%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 20:08:39

End at: 2018-04-17 20:09:09

Below is generated by plot.py at 2018-04-17 23:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 64.521 ms

Loss rate: 0.42%

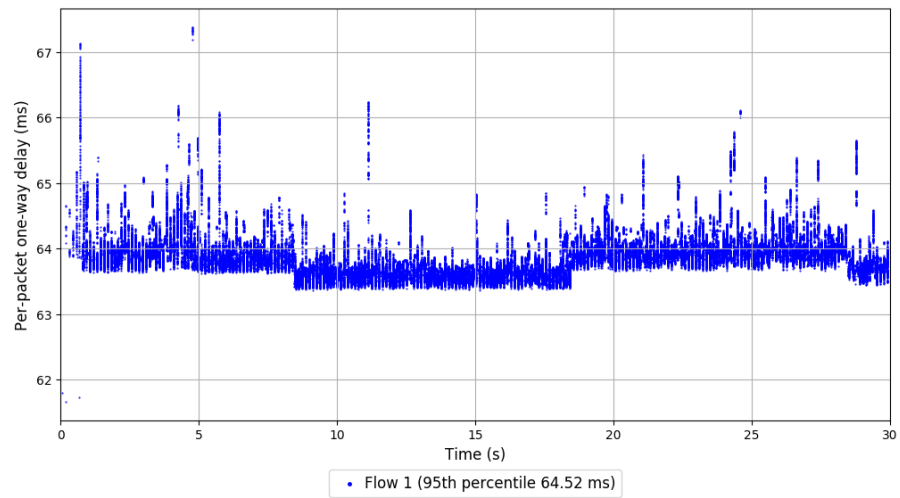
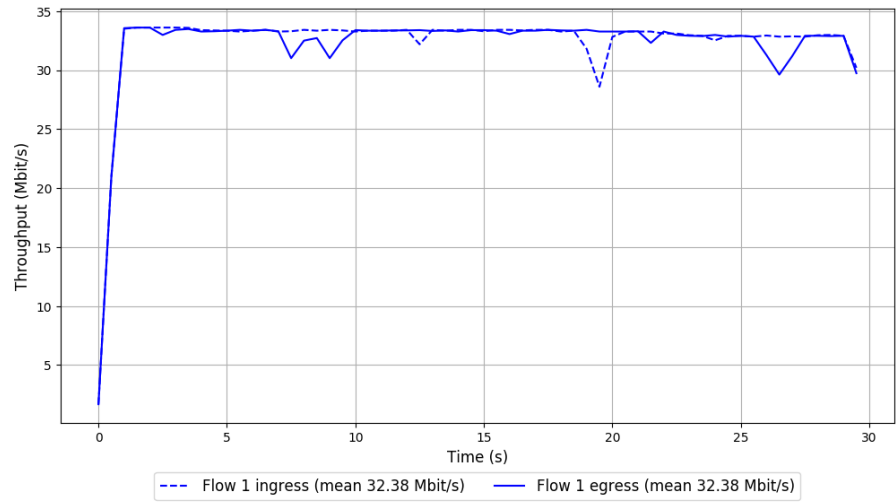
-- Flow 1:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 64.521 ms

Loss rate: 0.42%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 20:21:41

End at: 2018-04-17 20:22:11

Below is generated by plot.py at 2018-04-17 23:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 64.387 ms

Loss rate: 0.42%

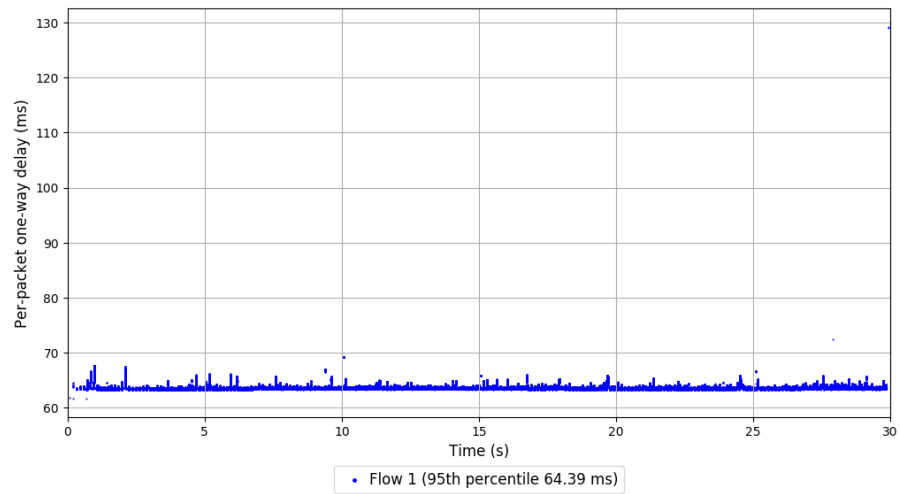
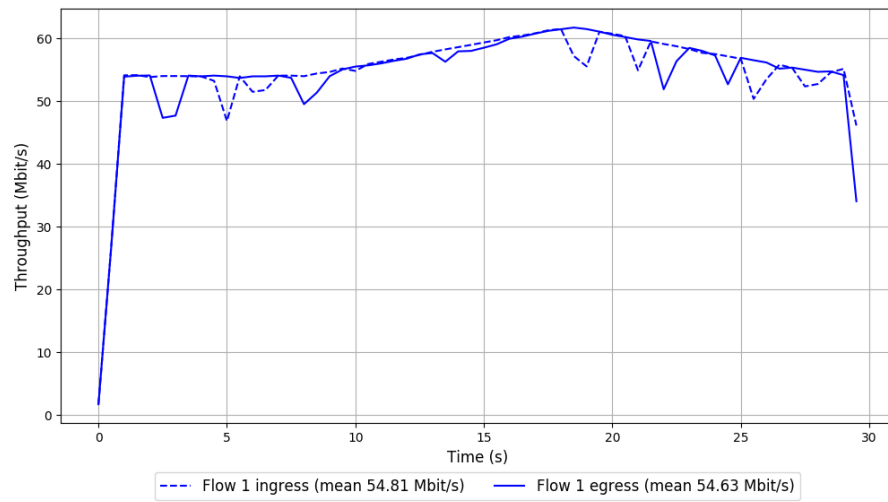
-- Flow 1:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 64.387 ms

Loss rate: 0.42%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 20:34:44

End at: 2018-04-17 20:35:14

Below is generated by plot.py at 2018-04-17 23:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.09 Mbit/s

95th percentile per-packet one-way delay: 64.097 ms

Loss rate: 0.38%

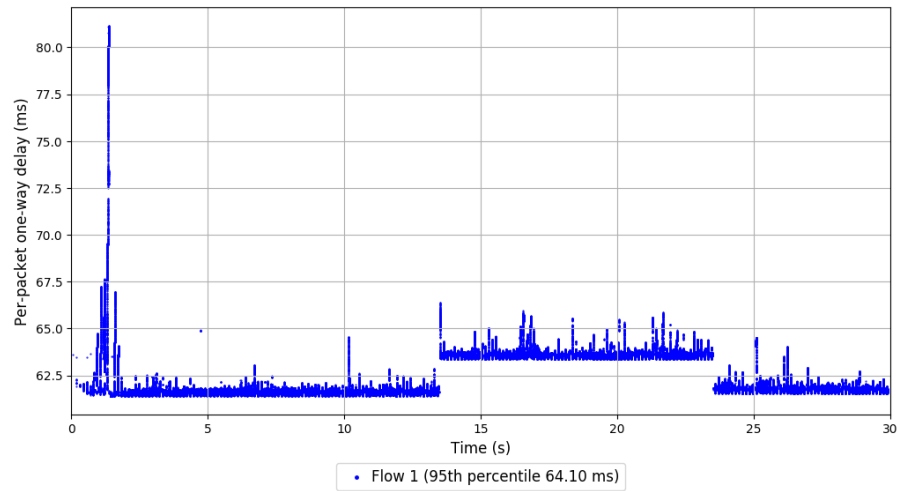
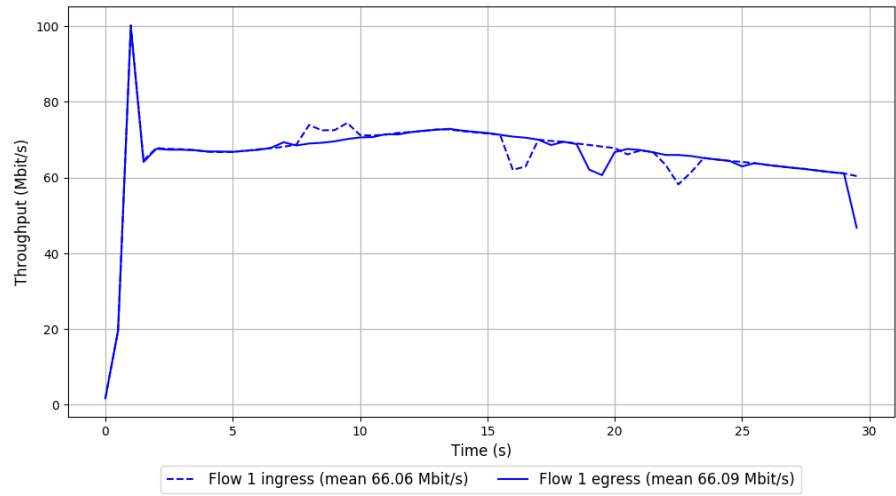
-- Flow 1:

Average throughput: 66.09 Mbit/s

95th percentile per-packet one-way delay: 64.097 ms

Loss rate: 0.38%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 20:47:54

End at: 2018-04-17 20:48:24

Below is generated by plot.py at 2018-04-17 23:43:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 64.710 ms

Loss rate: 0.43%

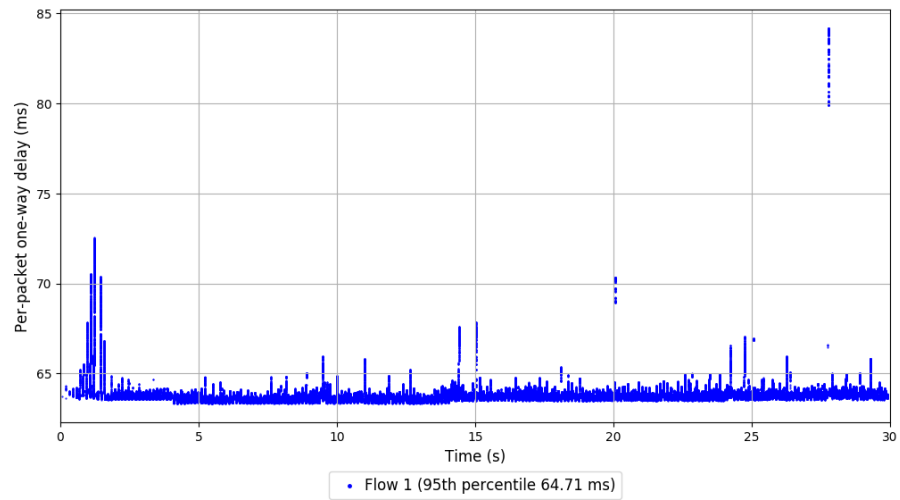
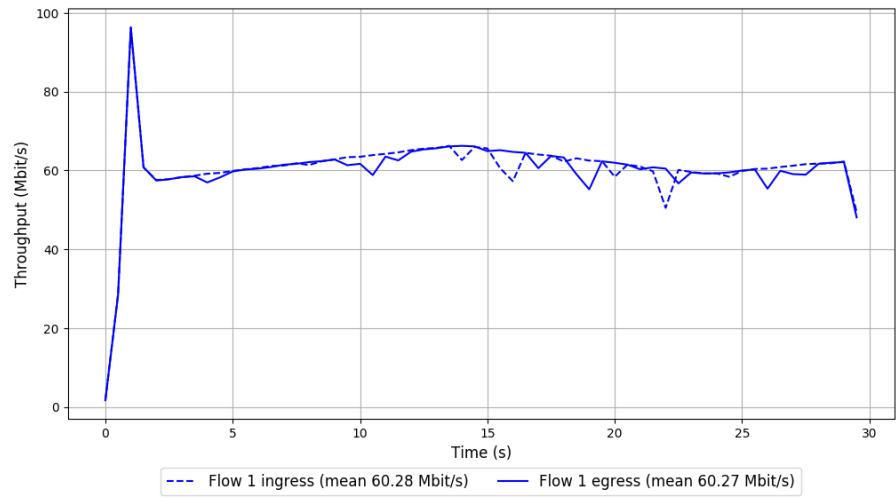
-- Flow 1:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 64.710 ms

Loss rate: 0.43%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-17 18:56:54

End at: 2018-04-17 18:57:24

Below is generated by plot.py at 2018-04-17 23:43:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.25 Mbit/s

95th percentile per-packet one-way delay: 199.591 ms

Loss rate: 2.96%

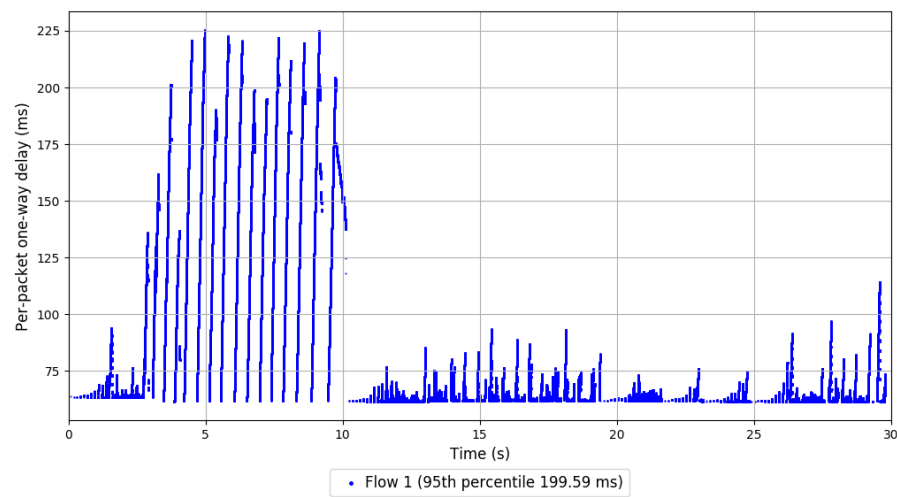
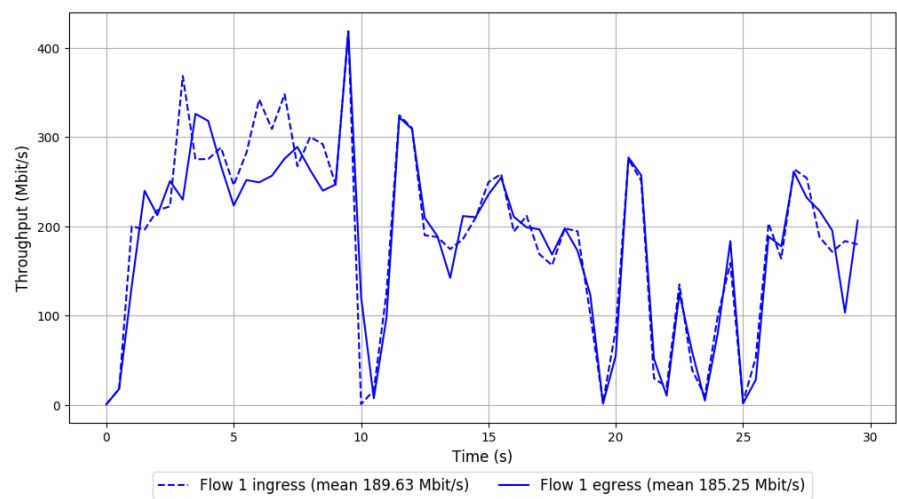
-- Flow 1:

Average throughput: 185.25 Mbit/s

95th percentile per-packet one-way delay: 199.591 ms

Loss rate: 2.96%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-17 19:10:00

End at: 2018-04-17 19:10:31

Below is generated by plot.py at 2018-04-17 23:44:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.51 Mbit/s

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

Loss rate: 0.55%

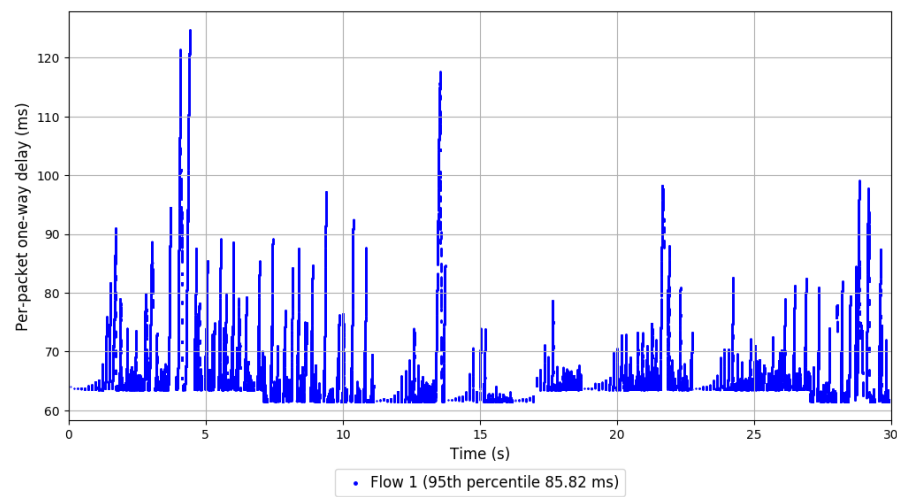
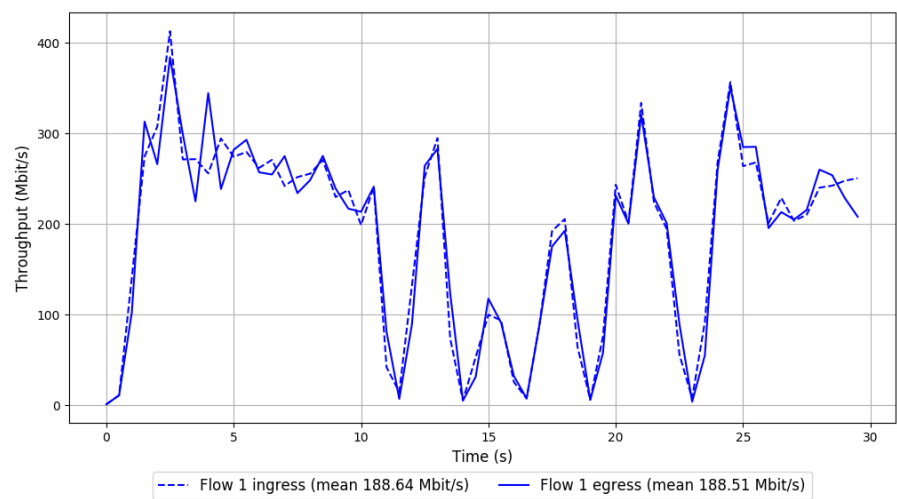
-- Flow 1:

Average throughput: 188.51 Mbit/s

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

Loss rate: 0.55%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-17 19:23:05

End at: 2018-04-17 19:23:36

Below is generated by plot.py at 2018-04-17 23:44:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.96 Mbit/s

95th percentile per-packet one-way delay: 87.738 ms

Loss rate: 1.92%

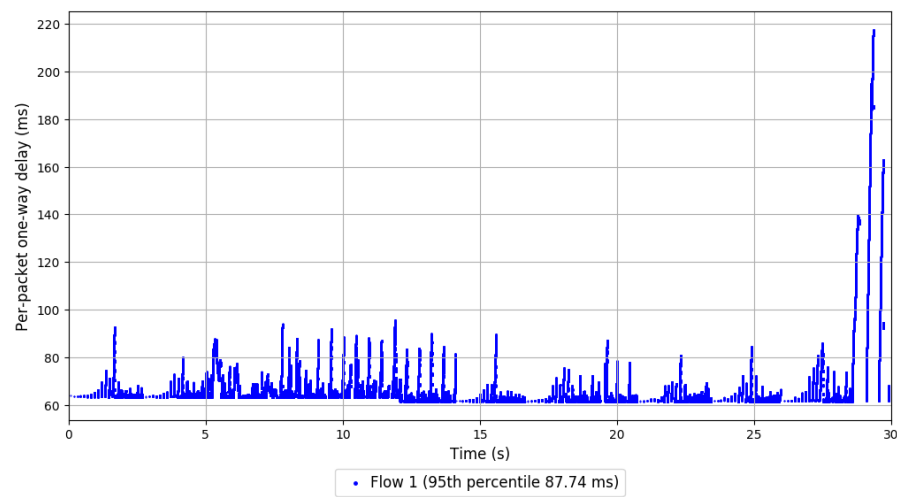
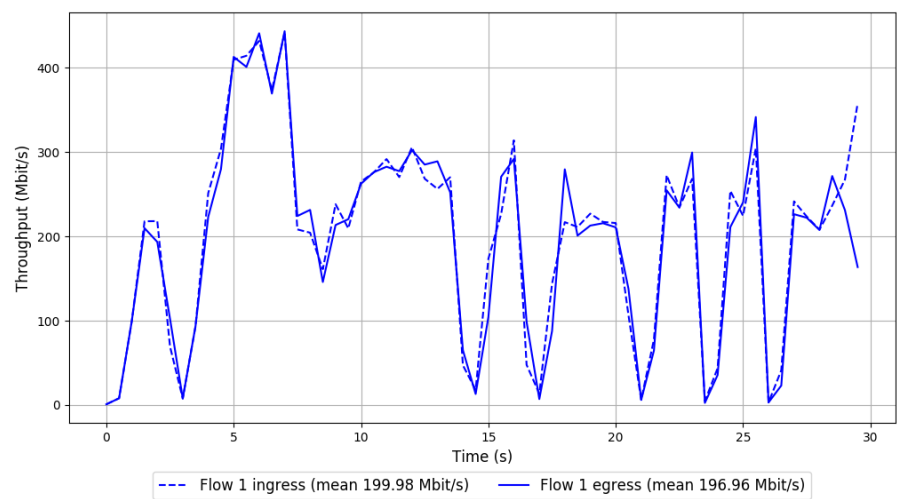
-- Flow 1:

Average throughput: 196.96 Mbit/s

95th percentile per-packet one-way delay: 87.738 ms

Loss rate: 1.92%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-17 19:36:13

End at: 2018-04-17 19:36:44

Below is generated by plot.py at 2018-04-17 23:44:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.12 Mbit/s

95th percentile per-packet one-way delay: 127.775 ms

Loss rate: 0.11%

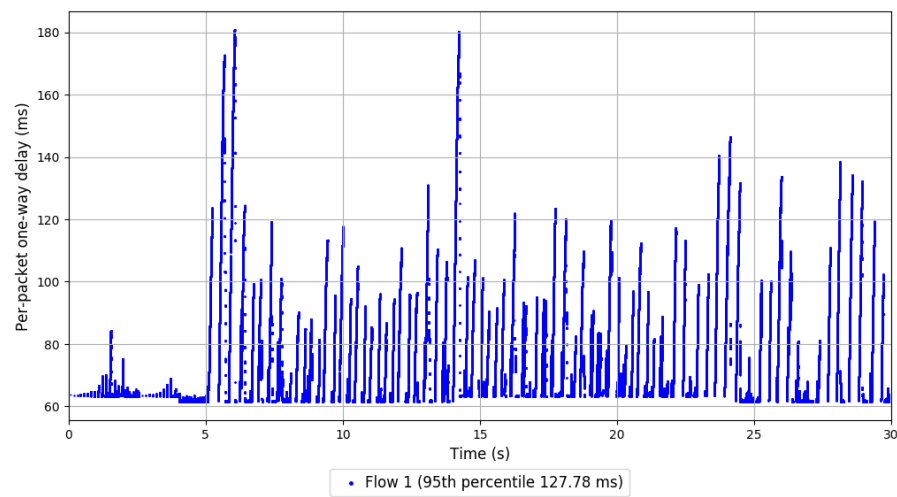
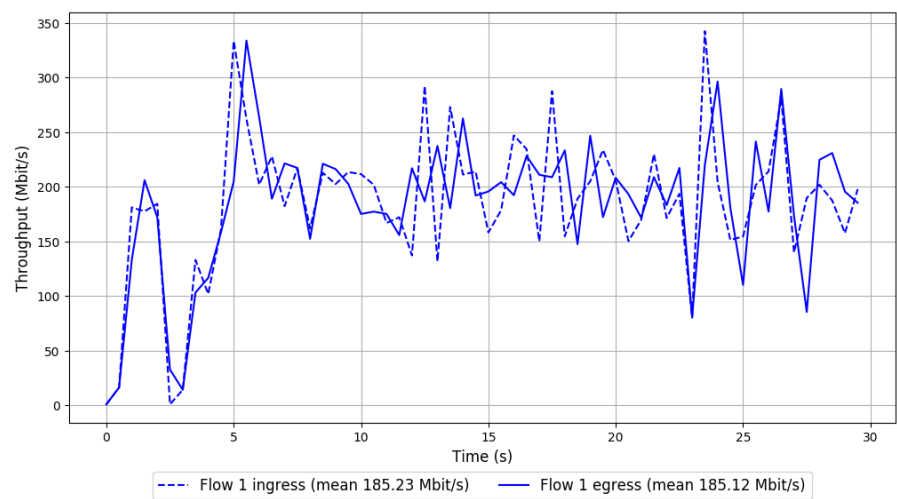
-- Flow 1:

Average throughput: 185.12 Mbit/s

95th percentile per-packet one-way delay: 127.775 ms

Loss rate: 0.11%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-17 19:49:13

End at: 2018-04-17 19:49:43

Below is generated by plot.py at 2018-04-17 23:47:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.49 Mbit/s

95th percentile per-packet one-way delay: 229.291 ms

Loss rate: 7.05%

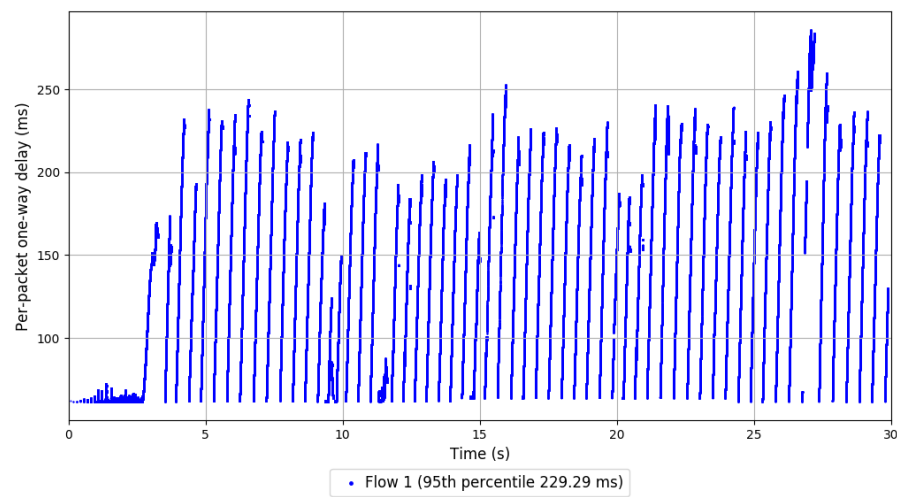
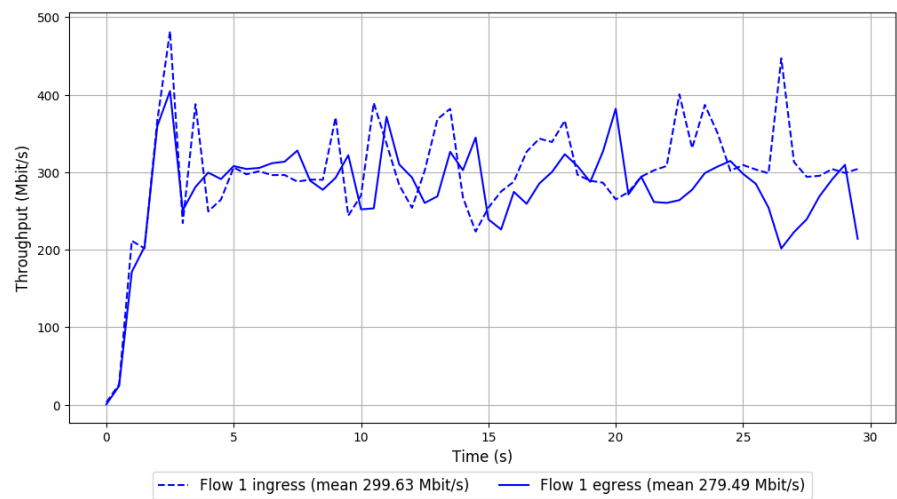
-- Flow 1:

Average throughput: 279.49 Mbit/s

95th percentile per-packet one-way delay: 229.291 ms

Loss rate: 7.05%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-17 20:02:22

End at: 2018-04-17 20:02:52

Below is generated by plot.py at 2018-04-17 23:47:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 112.441 ms

Loss rate: 1.00%

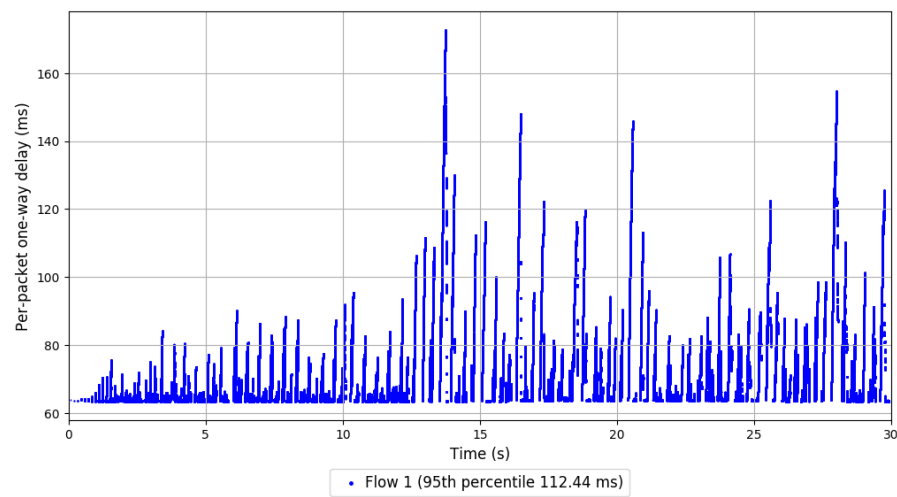
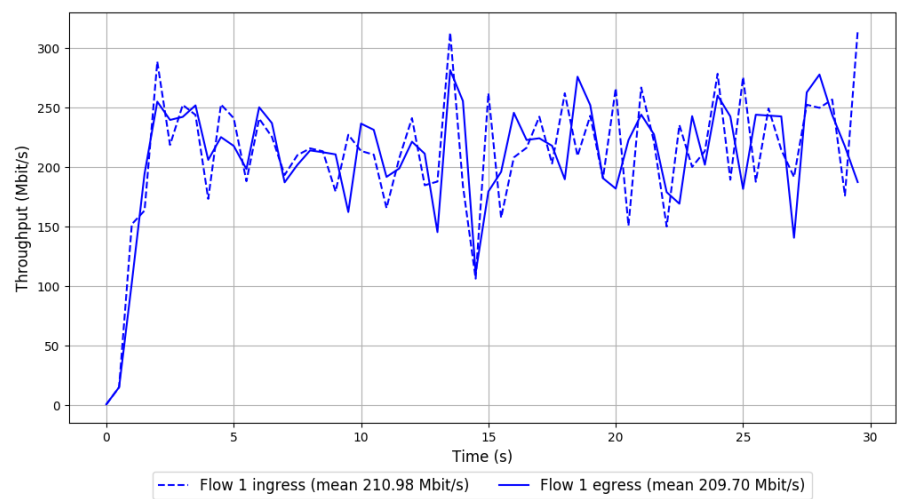
-- Flow 1:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 112.441 ms

Loss rate: 1.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-17 20:15:20

End at: 2018-04-17 20:15:50

Below is generated by plot.py at 2018-04-17 23:47:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.08 Mbit/s

95th percentile per-packet one-way delay: 89.385 ms

Loss rate: 0.01%

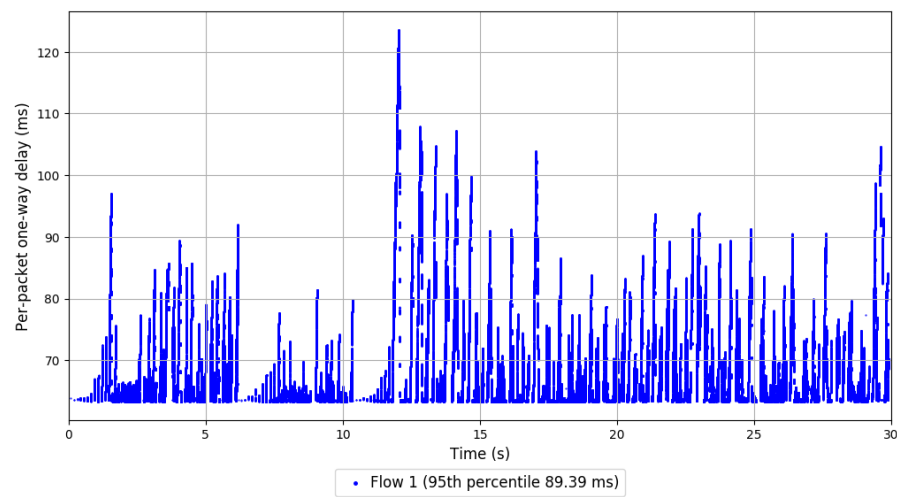
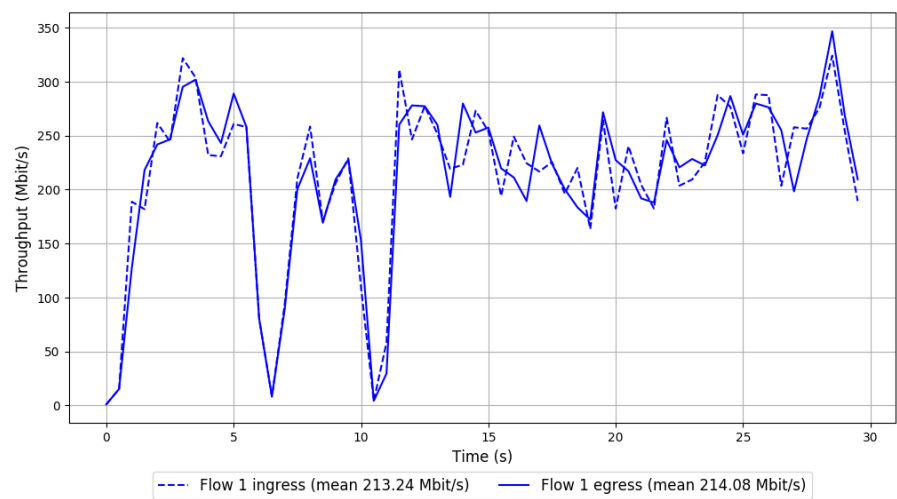
-- Flow 1:

Average throughput: 214.08 Mbit/s

95th percentile per-packet one-way delay: 89.385 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-17 20:28:27

End at: 2018-04-17 20:28:57

Below is generated by plot.py at 2018-04-17 23:47:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.90 Mbit/s

95th percentile per-packet one-way delay: 132.861 ms

Loss rate: 0.73%

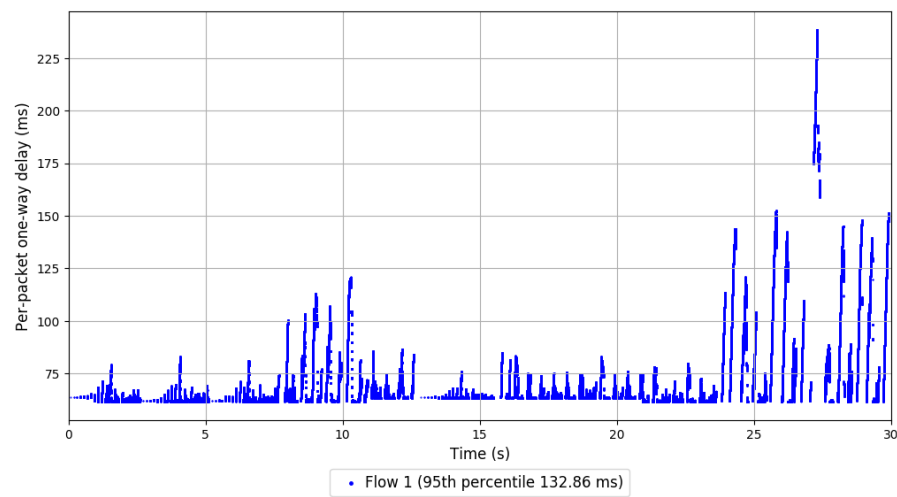
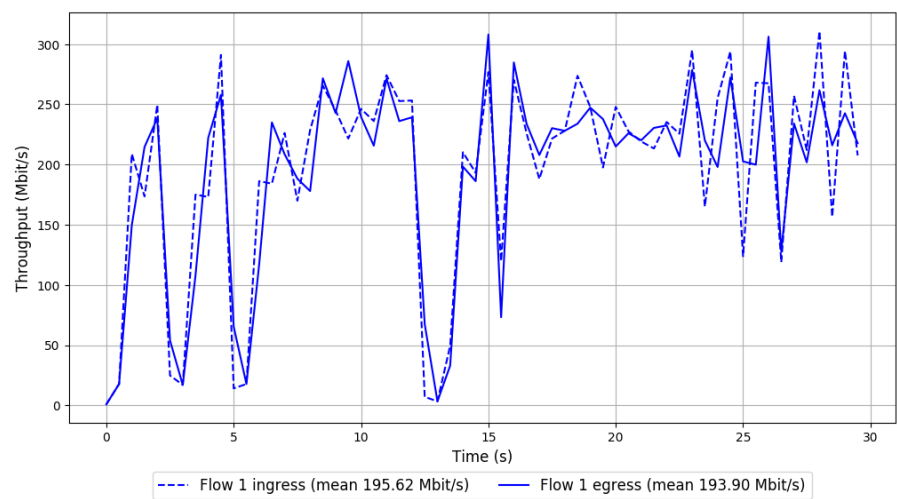
-- Flow 1:

Average throughput: 193.90 Mbit/s

95th percentile per-packet one-way delay: 132.861 ms

Loss rate: 0.73%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-17 20:41:35

End at: 2018-04-17 20:42:06

Below is generated by plot.py at 2018-04-17 23:47:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.44 Mbit/s

95th percentile per-packet one-way delay: 100.276 ms

Loss rate: 0.27%

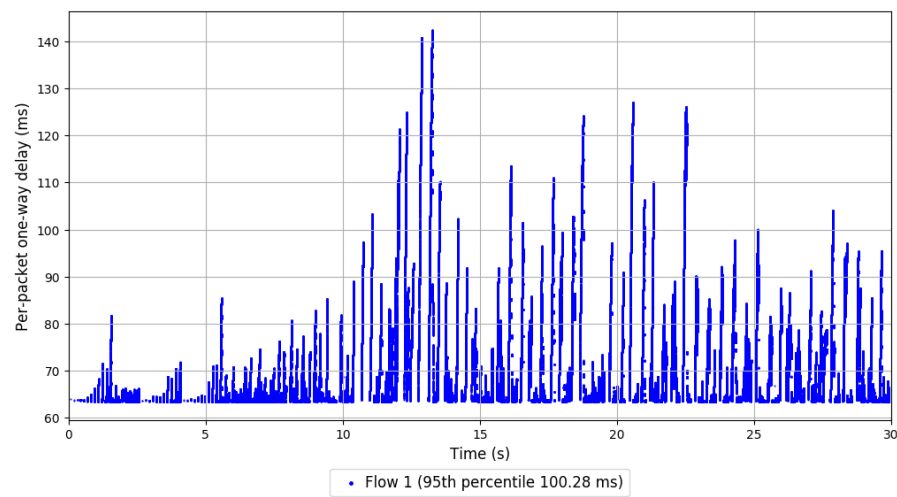
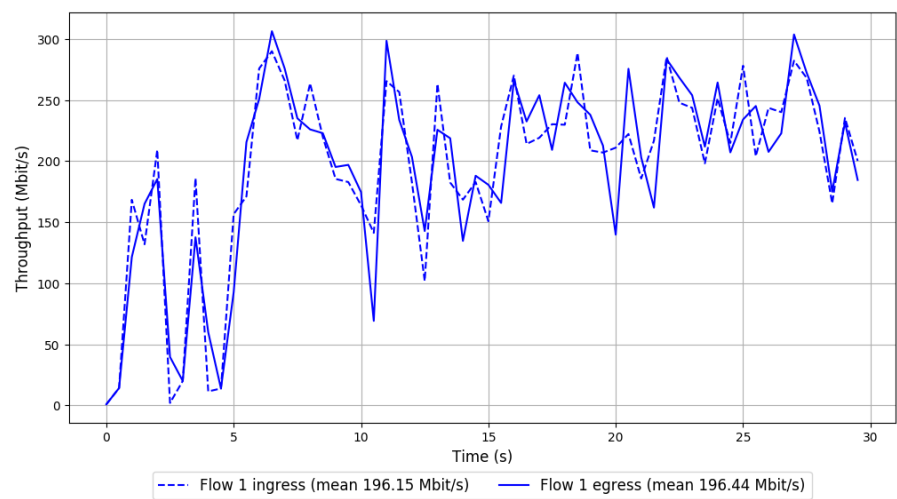
-- Flow 1:

Average throughput: 196.44 Mbit/s

95th percentile per-packet one-way delay: 100.276 ms

Loss rate: 0.27%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-17 20:54:38

End at: 2018-04-17 20:55:08

Below is generated by plot.py at 2018-04-17 23:47:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.22 Mbit/s

95th percentile per-packet one-way delay: 110.757 ms

Loss rate: 1.15%

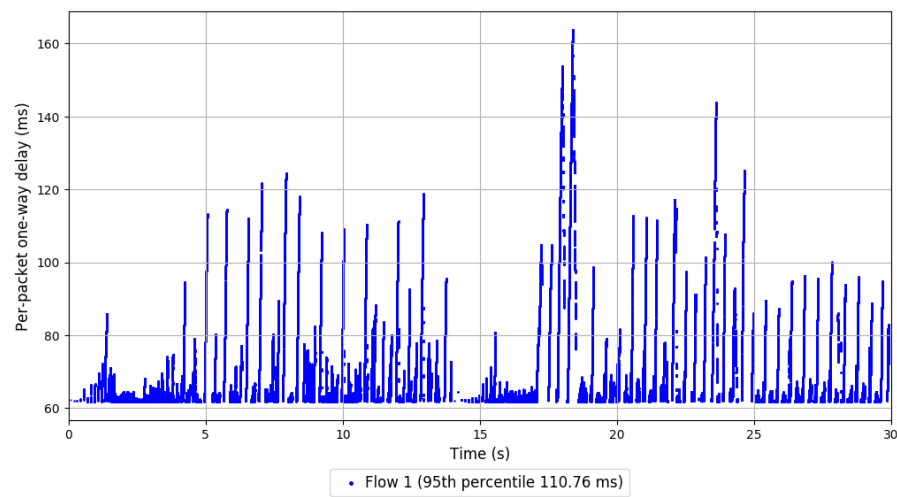
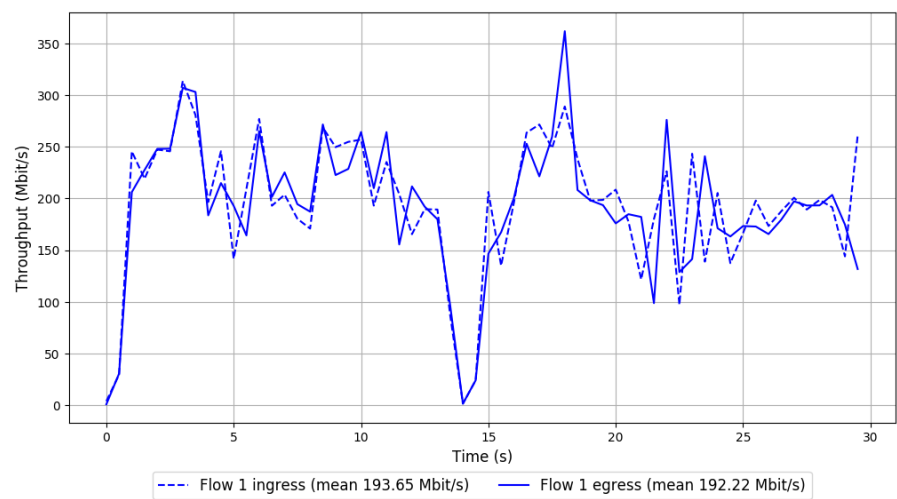
-- Flow 1:

Average throughput: 192.22 Mbit/s

95th percentile per-packet one-way delay: 110.757 ms

Loss rate: 1.15%

Run 10: Report of Verus — Data Link

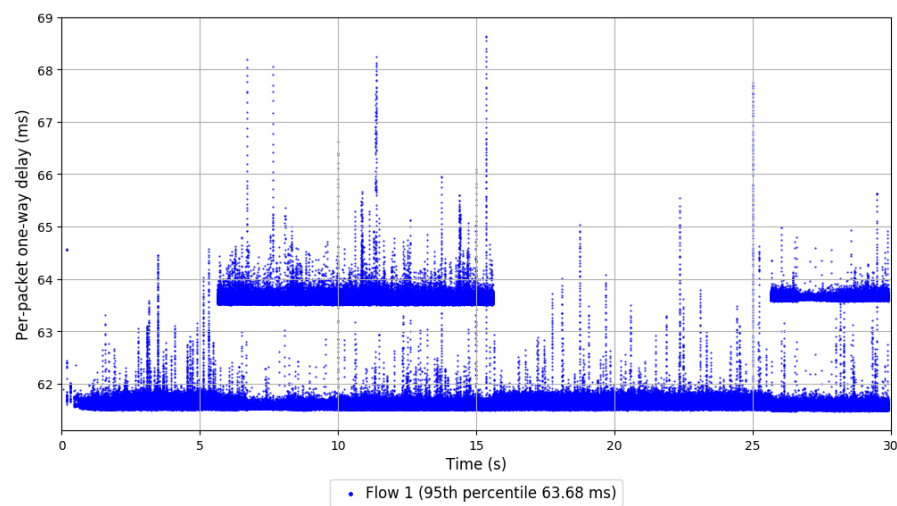
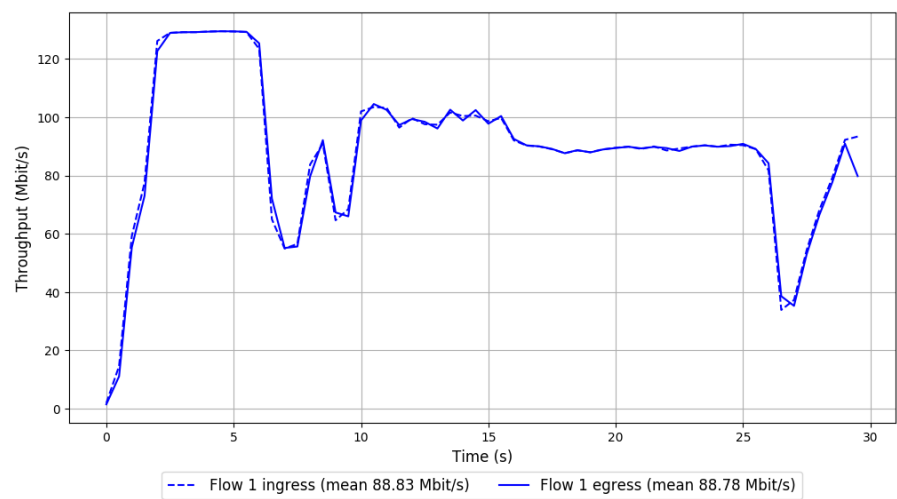


```
Run 1: Statistics of Copa

Start at: 2018-04-17 18:46:22
End at: 2018-04-17 18:46:52

# Below is generated by plot.py at 2018-04-17 23:47:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.78 Mbit/s
95th percentile per-packet one-way delay: 63.676 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 88.78 Mbit/s
95th percentile per-packet one-way delay: 63.676 ms
Loss rate: 0.48%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 18:59:32

End at: 2018-04-17 19:00:02

Below is generated by plot.py at 2018-04-17 23:47:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.33%

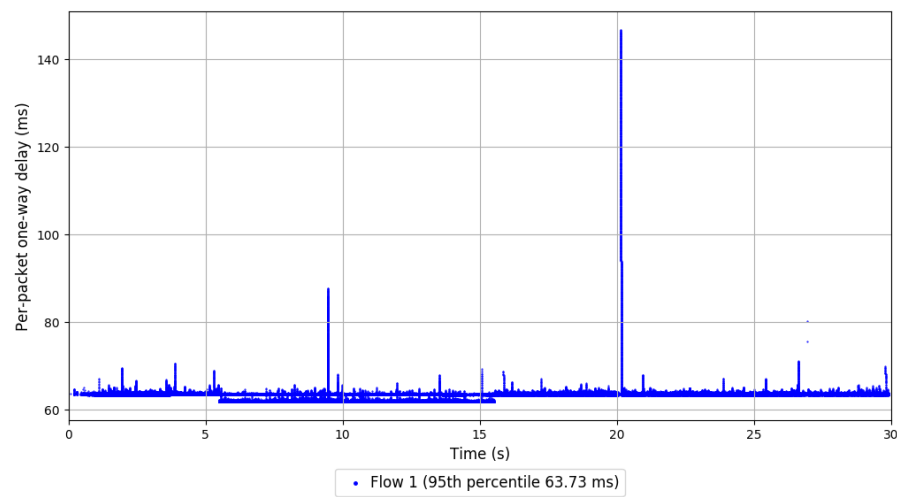
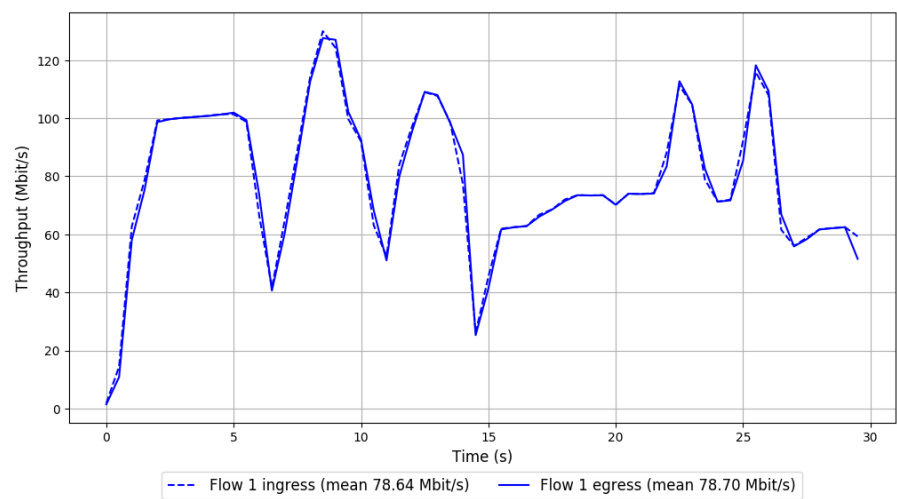
-- Flow 1:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 63.731 ms

Loss rate: 0.33%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-17 19:12:38

End at: 2018-04-17 19:13:08

Below is generated by plot.py at 2018-04-17 23:48:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.12 Mbit/s

95th percentile per-packet one-way delay: 63.735 ms

Loss rate: 0.21%

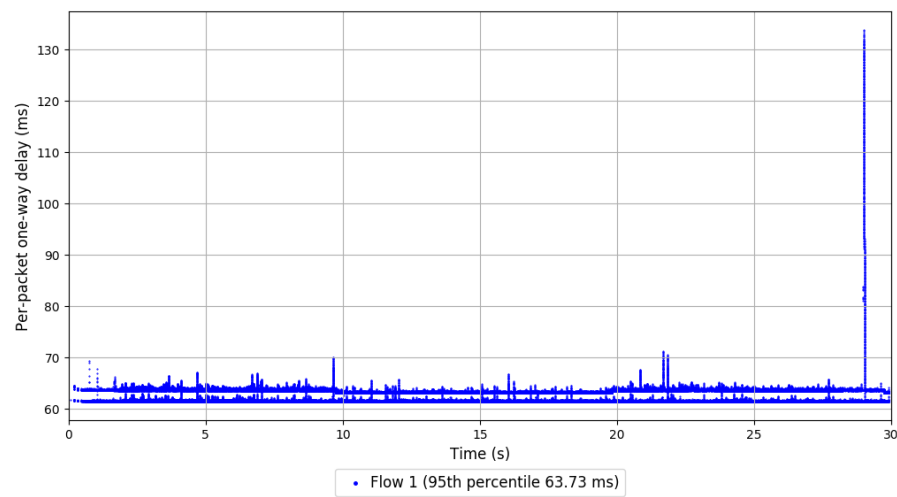
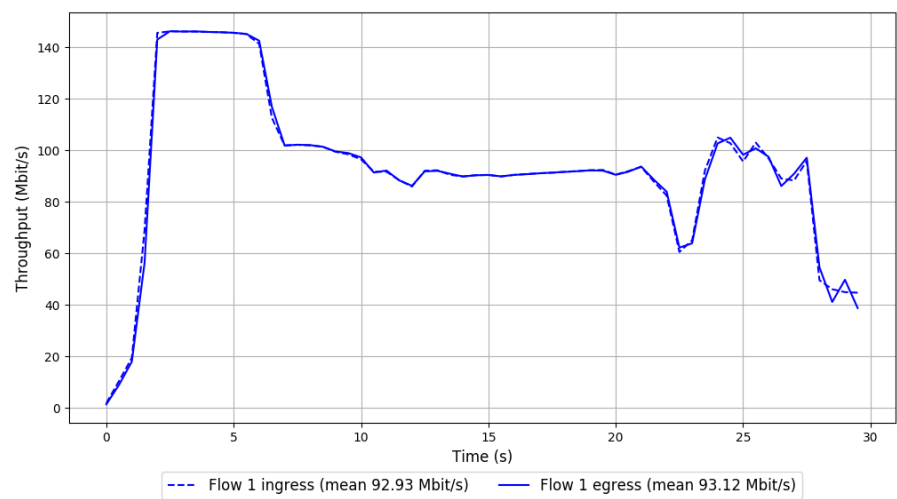
-- Flow 1:

Average throughput: 93.12 Mbit/s

95th percentile per-packet one-way delay: 63.735 ms

Loss rate: 0.21%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-17 19:25:44

End at: 2018-04-17 19:26:14

Below is generated by plot.py at 2018-04-17 23:48:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.66 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.49%

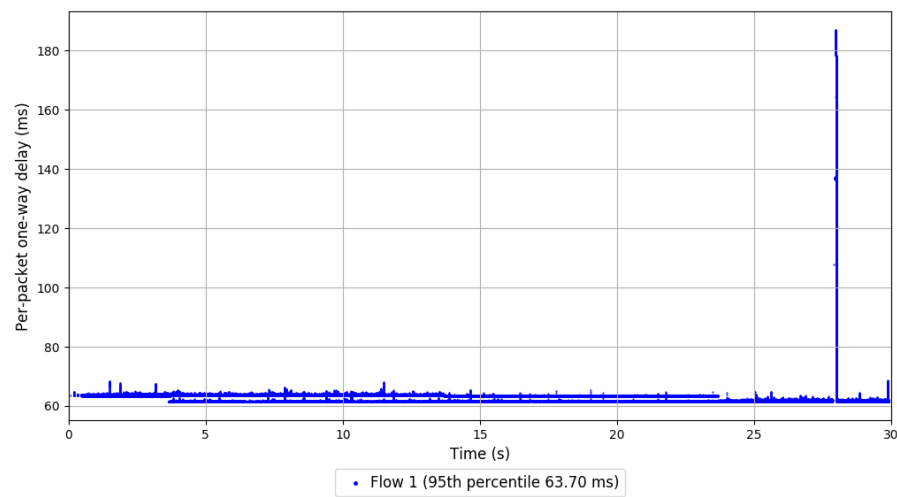
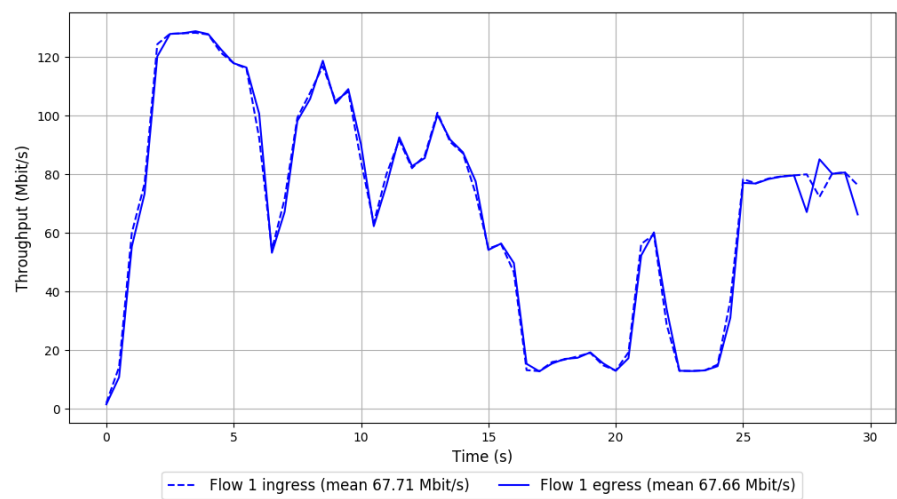
-- Flow 1:

Average throughput: 67.66 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.49%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-17 19:38:49

End at: 2018-04-17 19:39:20

Below is generated by plot.py at 2018-04-17 23:49:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.64 Mbit/s

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

Loss rate: 0.30%

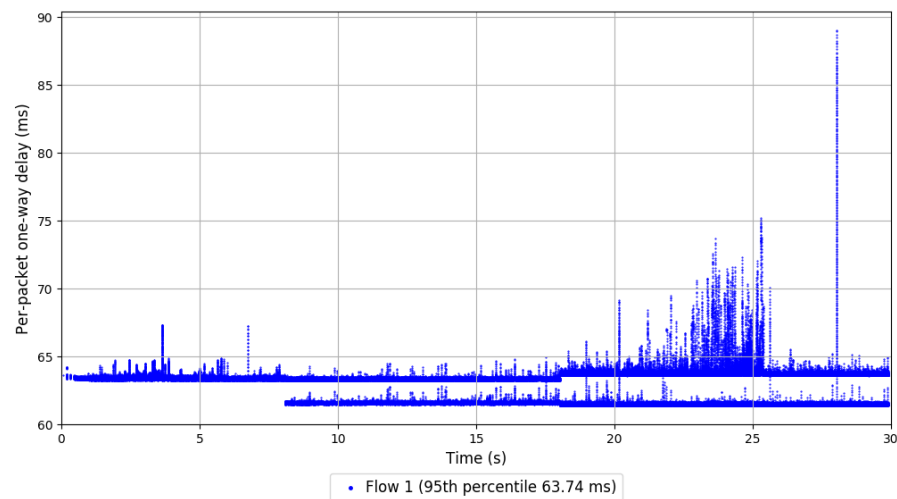
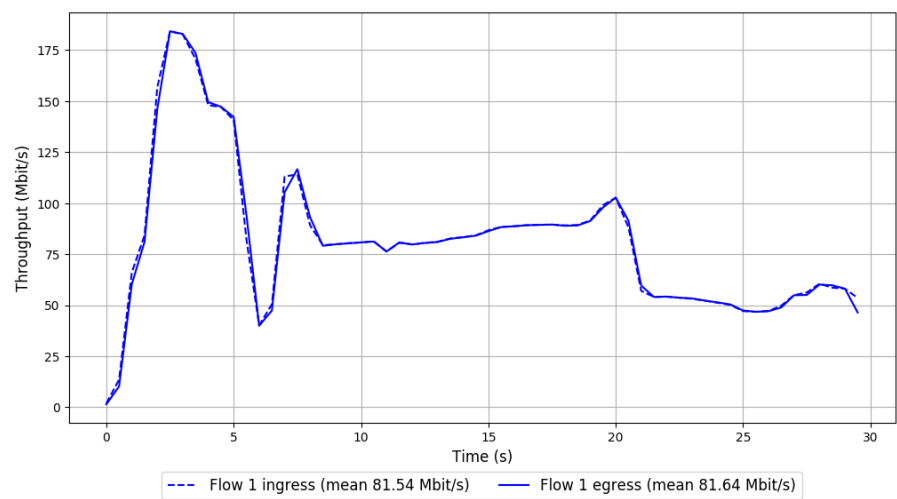
-- Flow 1:

Average throughput: 81.64 Mbit/s

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

Loss rate: 0.30%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-17 19:51:57

End at: 2018-04-17 19:52:27

Below is generated by plot.py at 2018-04-17 23:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.39%

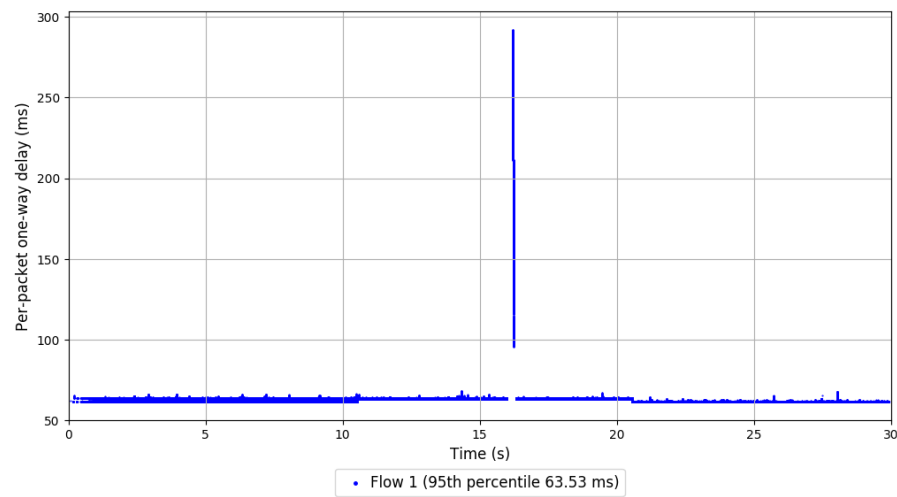
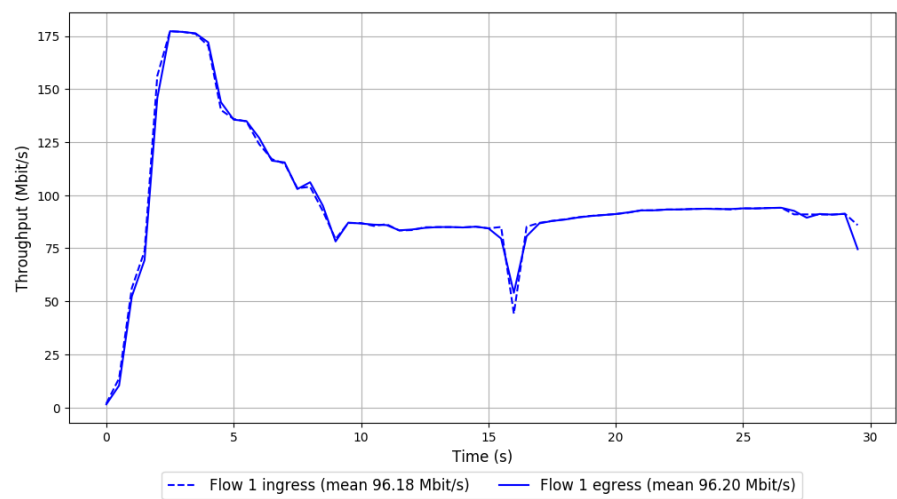
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.39%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 20:05:02

End at: 2018-04-17 20:05:32

Below is generated by plot.py at 2018-04-17 23:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.31 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 0.08%

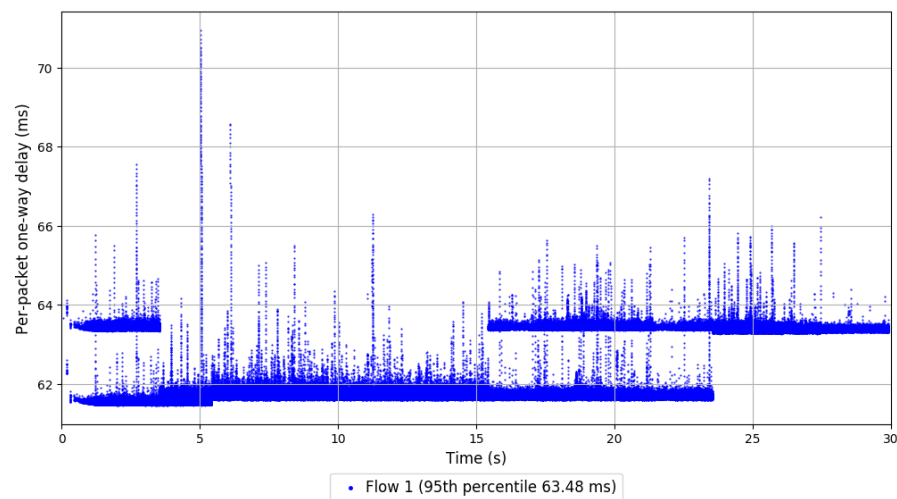
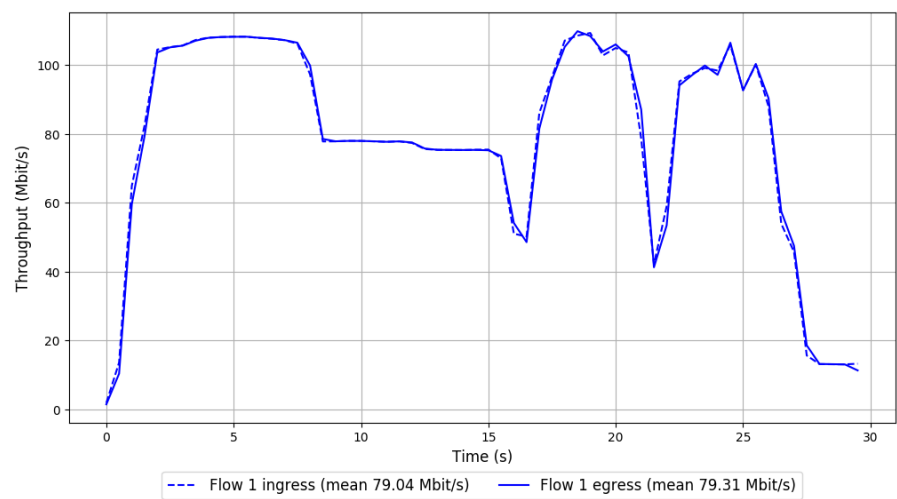
-- Flow 1:

Average throughput: 79.31 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 0.08%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-17 20:18:00

End at: 2018-04-17 20:18:31

Below is generated by plot.py at 2018-04-17 23:50:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.94 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 0.41%

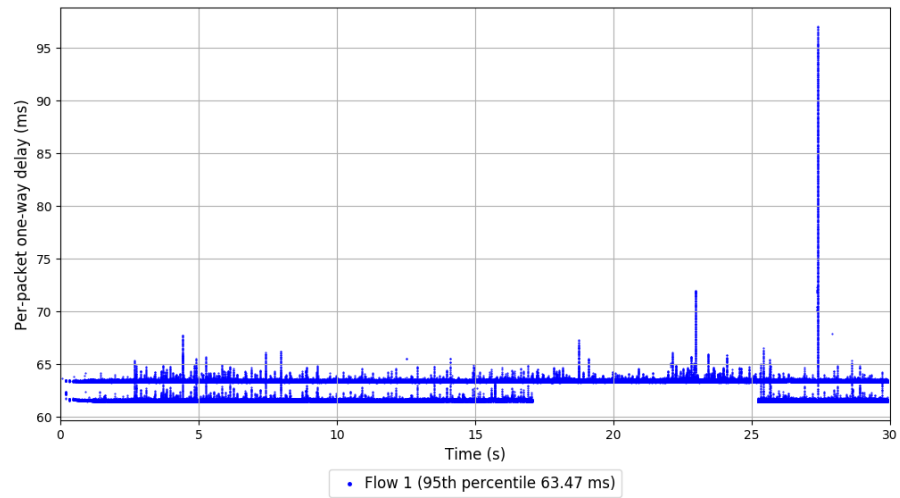
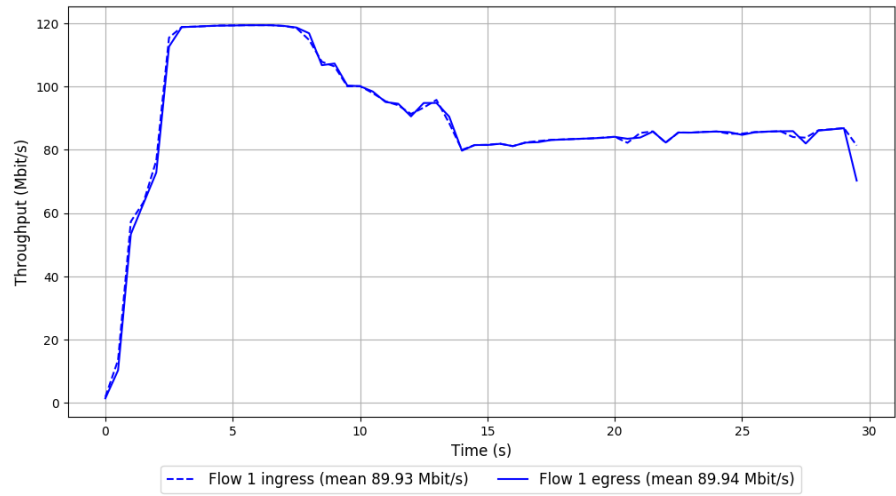
-- Flow 1:

Average throughput: 89.94 Mbit/s

95th percentile per-packet one-way delay: 63.466 ms

Loss rate: 0.41%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-17 20:31:05

End at: 2018-04-17 20:31:35

Below is generated by plot.py at 2018-04-17 23:50:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.18 Mbit/s

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

Loss rate: 0.32%

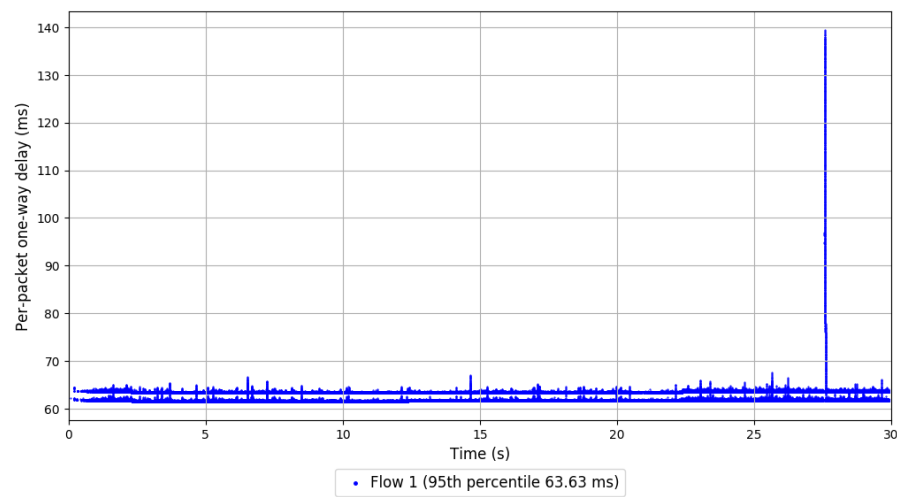
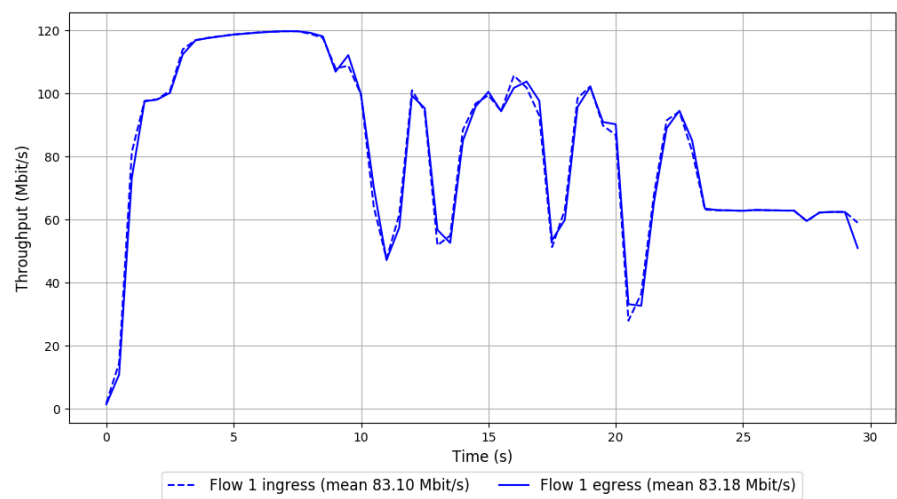
-- Flow 1:

Average throughput: 83.18 Mbit/s

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

Loss rate: 0.32%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 20:44:14

End at: 2018-04-17 20:44:44

Below is generated by plot.py at 2018-04-17 23:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 63.674 ms

Loss rate: 0.41%

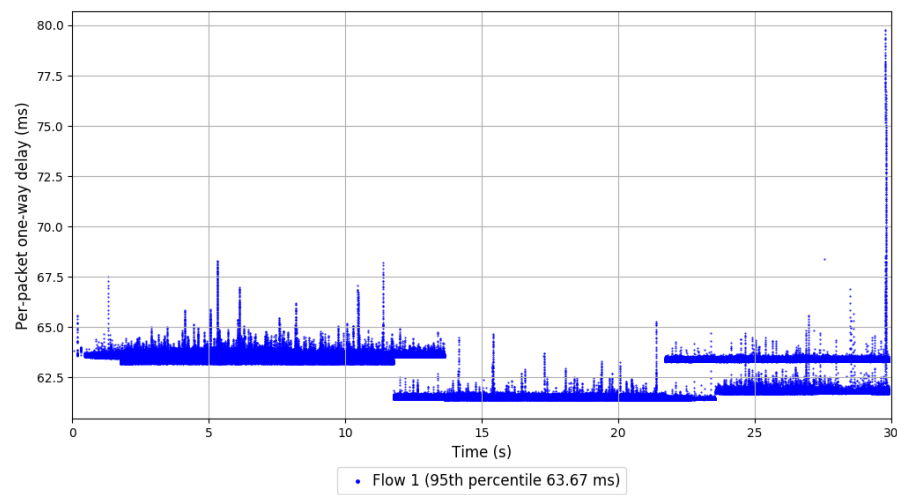
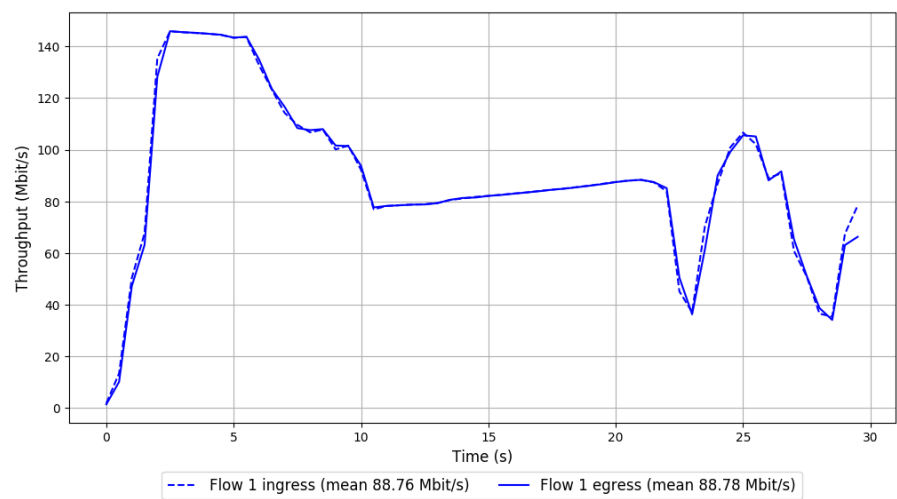
-- Flow 1:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 63.674 ms

Loss rate: 0.41%

Run 10: Report of Copa — Data Link

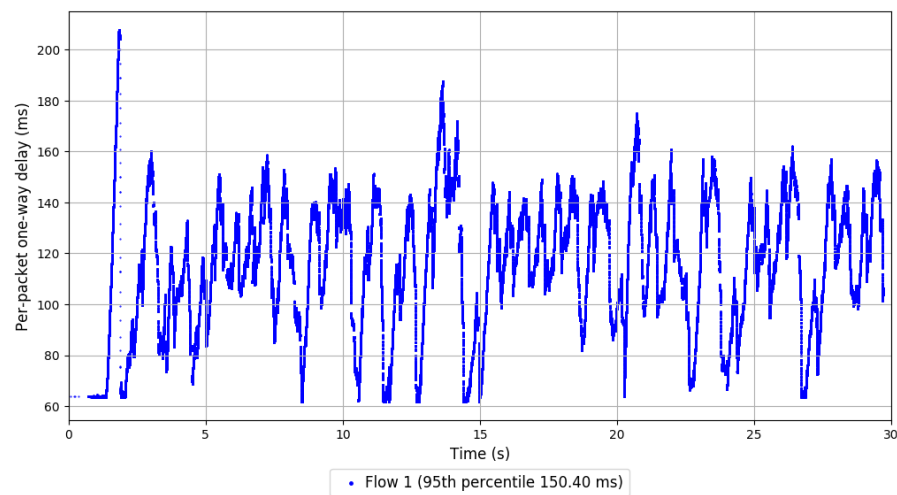
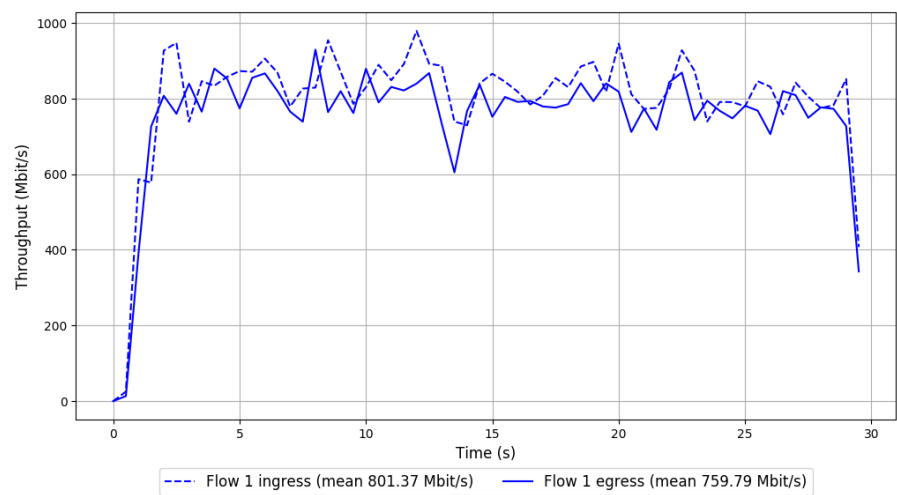


```
Run 1: Statistics of FillP

Start at: 2018-04-17 18:45:17
End at: 2018-04-17 18:45:47

# Below is generated by plot.py at 2018-04-18 00:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 759.79 Mbit/s
95th percentile per-packet one-way delay: 150.402 ms
Loss rate: 5.59%
-- Flow 1:
Average throughput: 759.79 Mbit/s
95th percentile per-packet one-way delay: 150.402 ms
Loss rate: 5.59%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 18:58:28

End at: 2018-04-17 18:58:58

Below is generated by plot.py at 2018-04-18 00:03:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 767.02 Mbit/s

95th percentile per-packet one-way delay: 148.401 ms

Loss rate: 5.21%

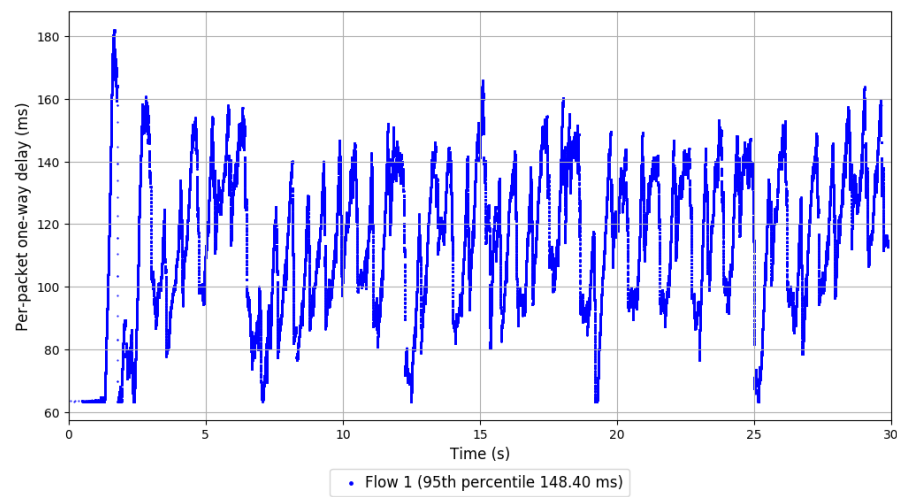
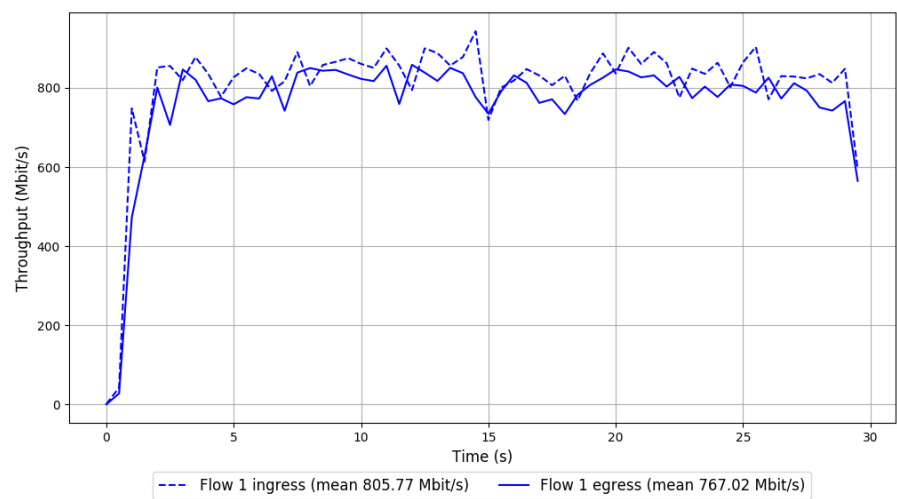
-- Flow 1:

Average throughput: 767.02 Mbit/s

95th percentile per-packet one-way delay: 148.401 ms

Loss rate: 5.21%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-17 19:11:33

End at: 2018-04-17 19:12:03

Below is generated by plot.py at 2018-04-18 00:03:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 768.04 Mbit/s

95th percentile per-packet one-way delay: 146.792 ms

Loss rate: 5.30%

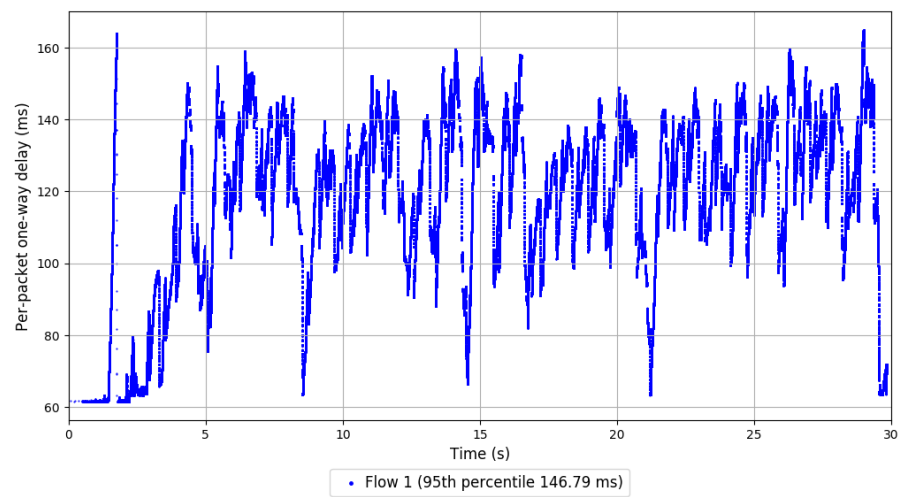
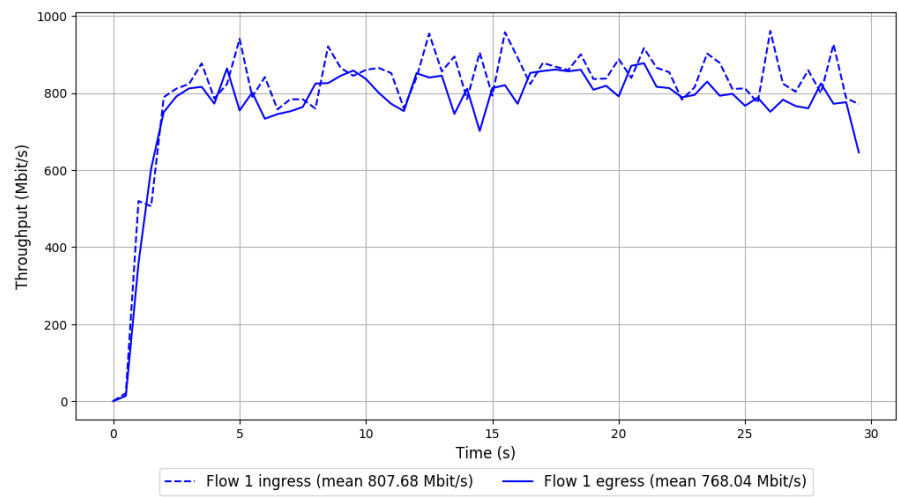
-- Flow 1:

Average throughput: 768.04 Mbit/s

95th percentile per-packet one-way delay: 146.792 ms

Loss rate: 5.30%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-17 19:24:39

End at: 2018-04-17 19:25:09

Below is generated by plot.py at 2018-04-18 00:03:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 723.12 Mbit/s

95th percentile per-packet one-way delay: 149.786 ms

Loss rate: 5.07%

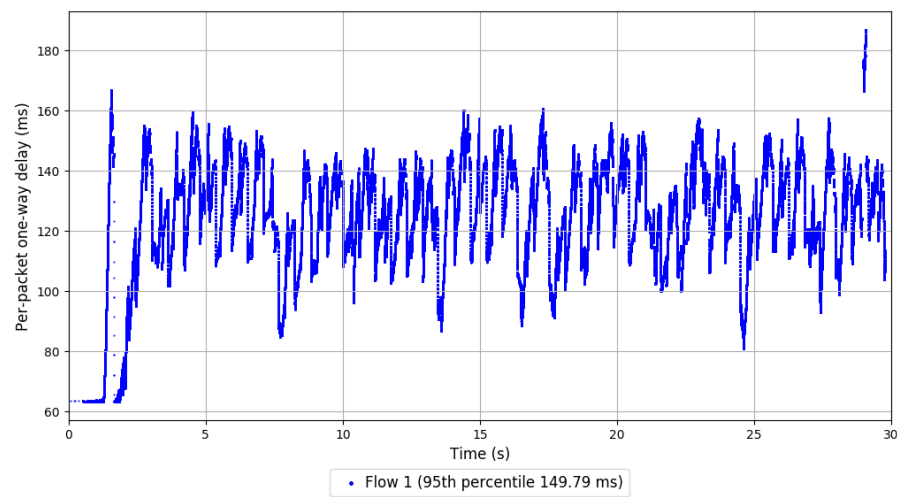
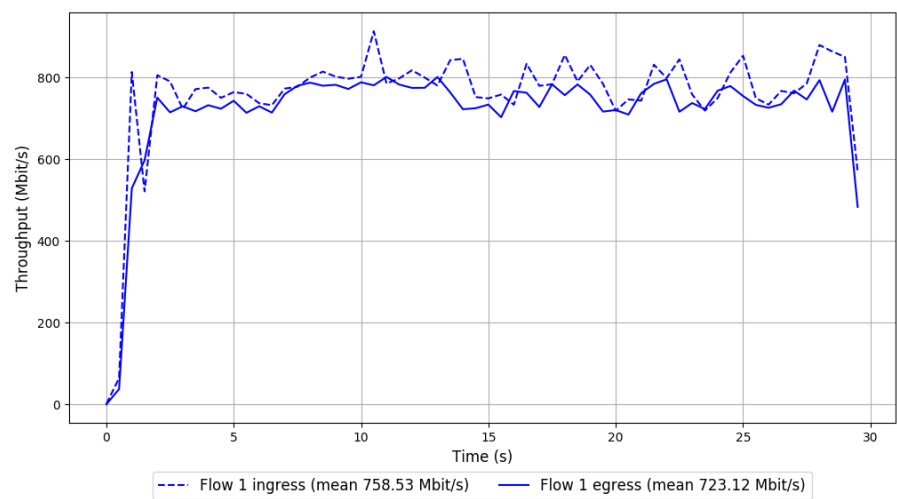
-- Flow 1:

Average throughput: 723.12 Mbit/s

95th percentile per-packet one-way delay: 149.786 ms

Loss rate: 5.07%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-17 19:37:46

End at: 2018-04-17 19:38:16

Below is generated by plot.py at 2018-04-18 00:03:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 751.25 Mbit/s

95th percentile per-packet one-way delay: 147.366 ms

Loss rate: 4.40%

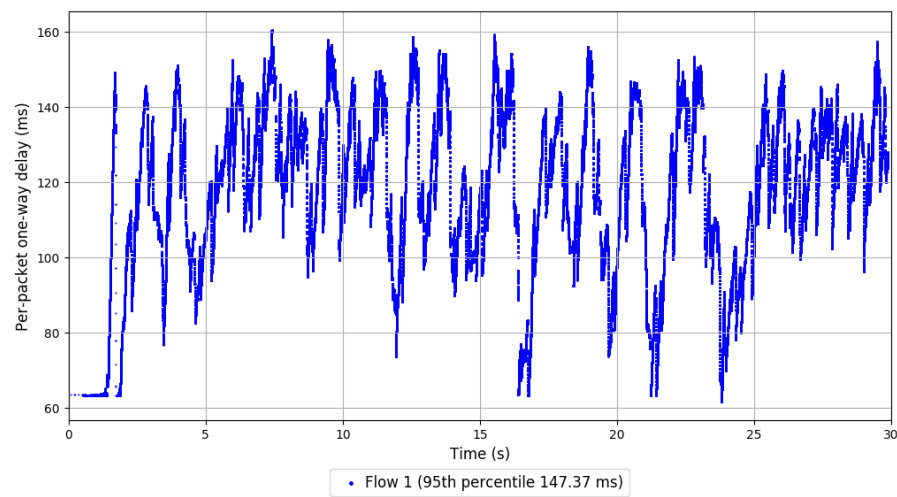
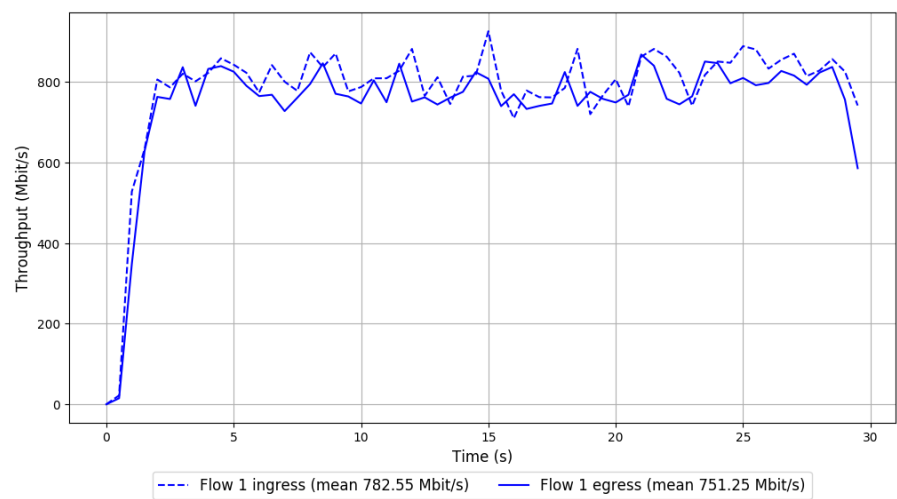
-- Flow 1:

Average throughput: 751.25 Mbit/s

95th percentile per-packet one-way delay: 147.366 ms

Loss rate: 4.40%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-17 19:50:52

End at: 2018-04-17 19:51:22

Below is generated by plot.py at 2018-04-18 00:04:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.01 Mbit/s

95th percentile per-packet one-way delay: 145.699 ms

Loss rate: 5.44%

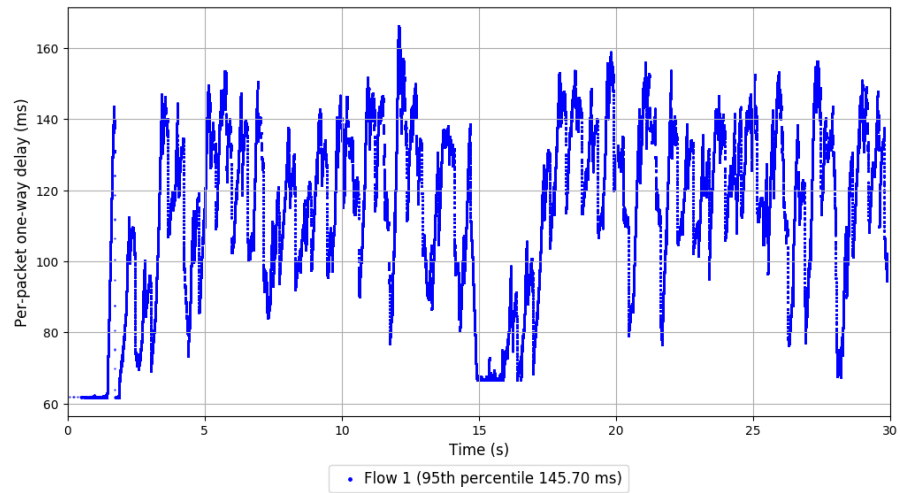
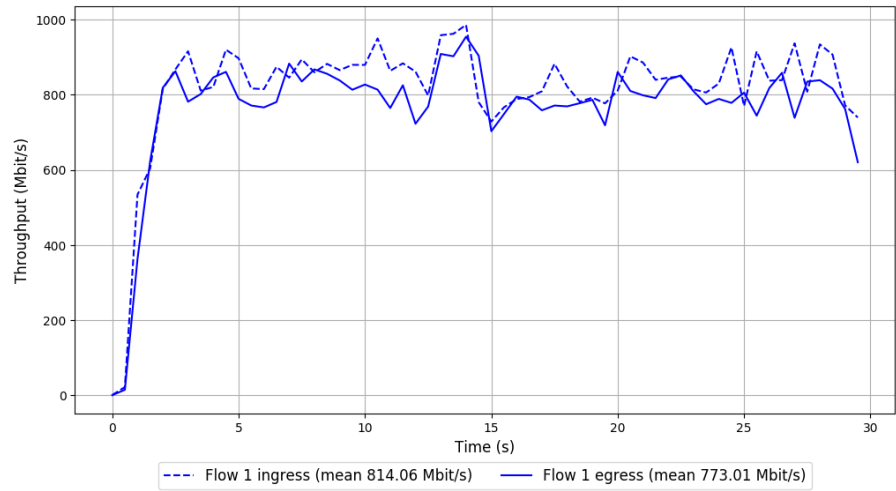
-- Flow 1:

Average throughput: 773.01 Mbit/s

95th percentile per-packet one-way delay: 145.699 ms

Loss rate: 5.44%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-17 20:03:58

End at: 2018-04-17 20:04:28

Below is generated by plot.py at 2018-04-18 00:04:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 757.71 Mbit/s

95th percentile per-packet one-way delay: 147.903 ms

Loss rate: 4.34%

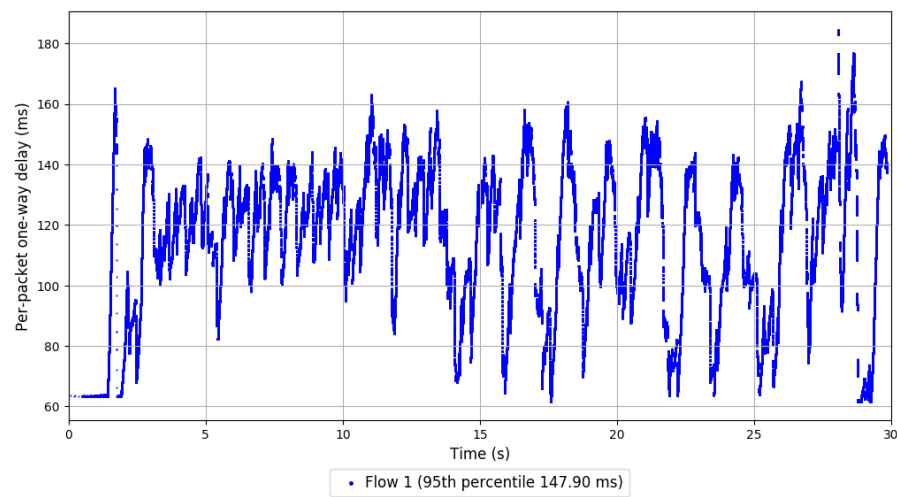
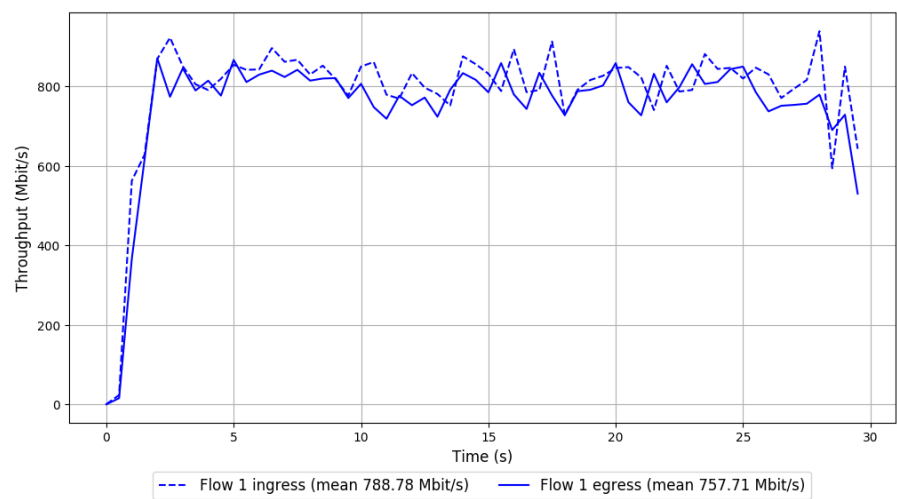
-- Flow 1:

Average throughput: 757.71 Mbit/s

95th percentile per-packet one-way delay: 147.903 ms

Loss rate: 4.34%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-17 20:16:56

End at: 2018-04-17 20:17:26

Below is generated by plot.py at 2018-04-18 00:04:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 766.38 Mbit/s

95th percentile per-packet one-way delay: 144.898 ms

Loss rate: 4.73%

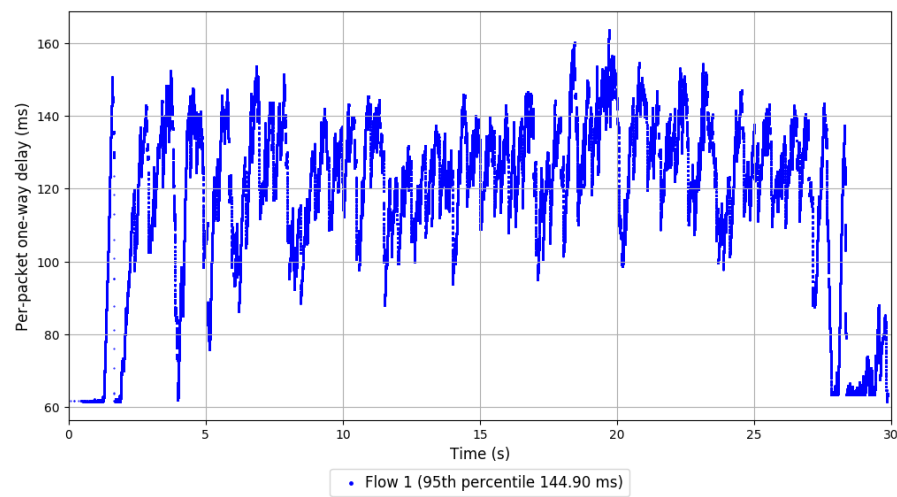
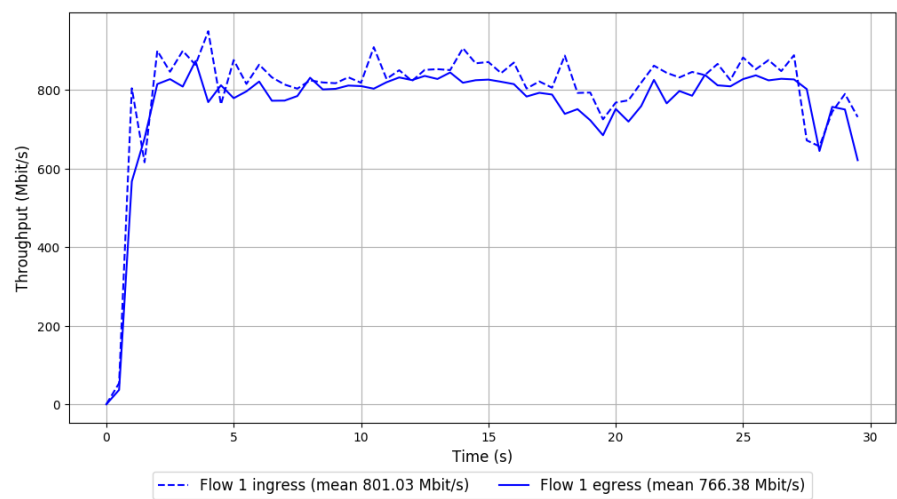
-- Flow 1:

Average throughput: 766.38 Mbit/s

95th percentile per-packet one-way delay: 144.898 ms

Loss rate: 4.73%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 20:30:01

End at: 2018-04-17 20:30:31

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 770.66 Mbit/s

95th percentile per-packet one-way delay: 144.668 ms

Loss rate: 5.32%

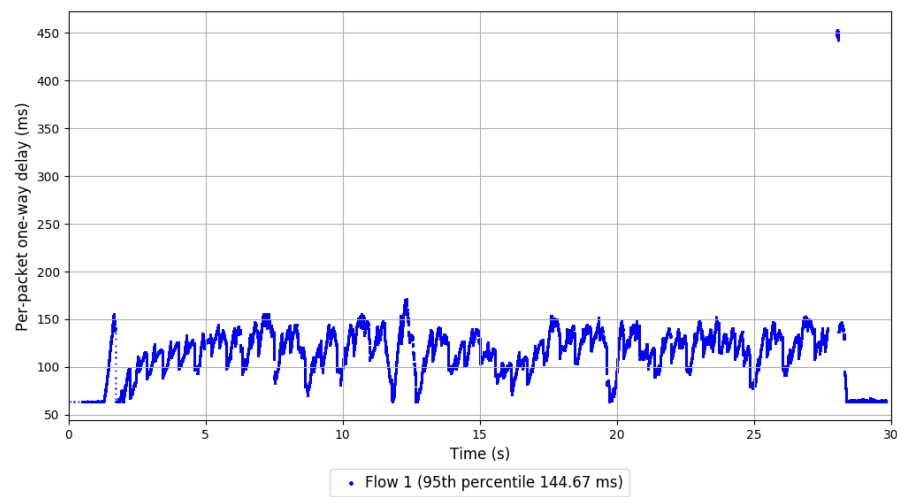
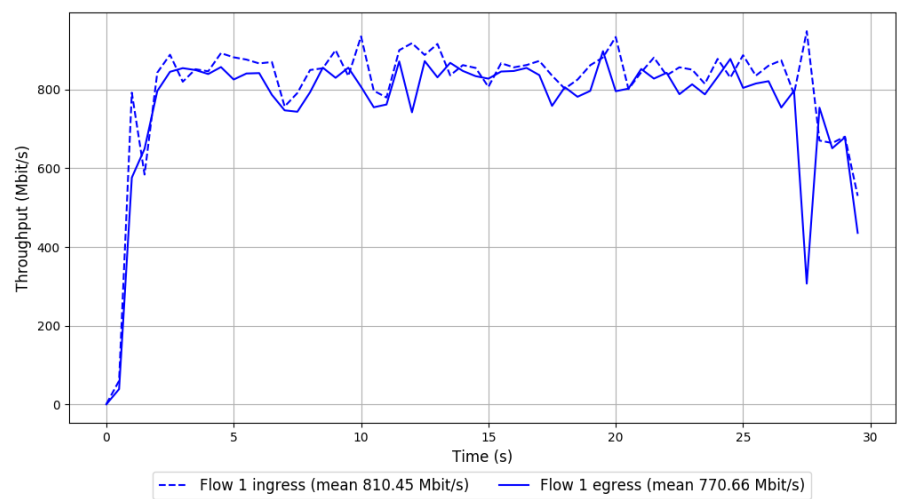
-- Flow 1:

Average throughput: 770.66 Mbit/s

95th percentile per-packet one-way delay: 144.668 ms

Loss rate: 5.32%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 20:43:10

End at: 2018-04-17 20:43:40

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 751.68 Mbit/s

95th percentile per-packet one-way delay: 147.899 ms

Loss rate: 4.82%

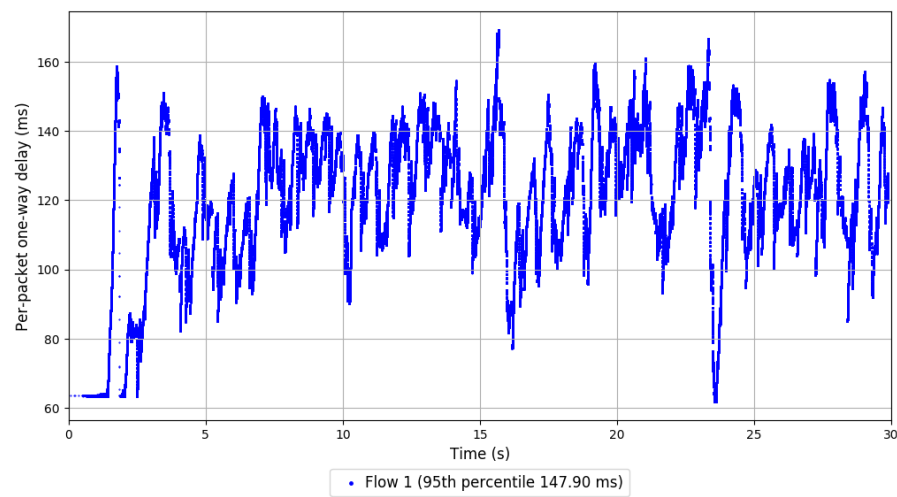
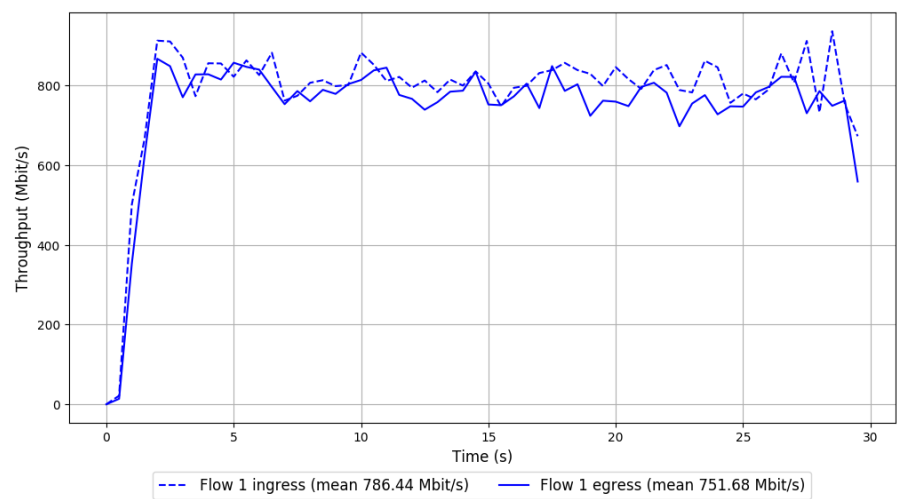
-- Flow 1:

Average throughput: 751.68 Mbit/s

95th percentile per-packet one-way delay: 147.899 ms

Loss rate: 4.82%

Run 10: Report of FillP — Data Link

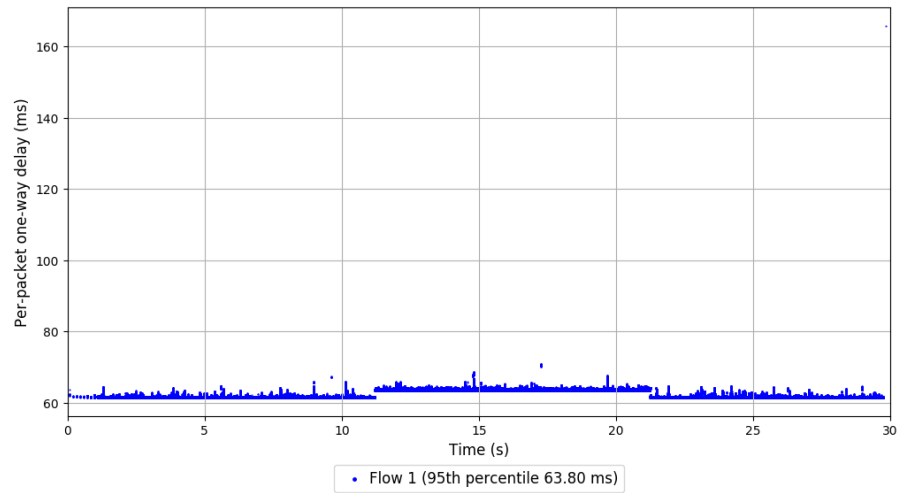
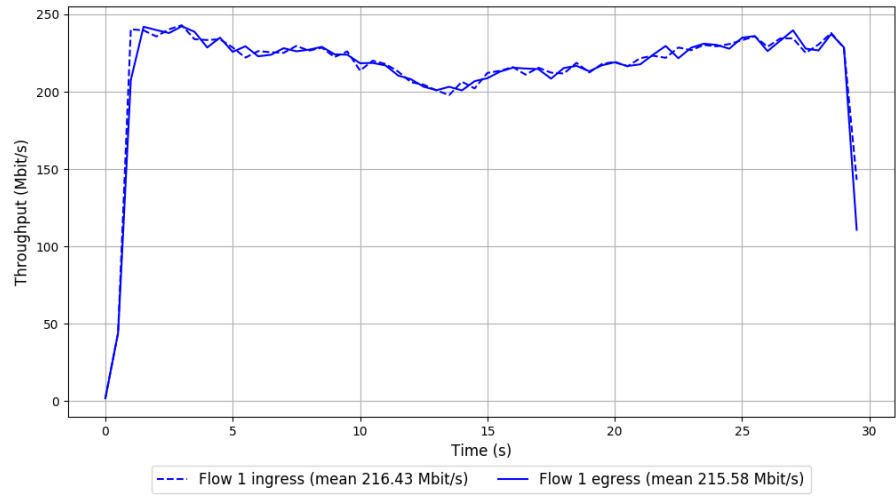


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 18:55:26
End at: 2018-04-17 18:55:56

# Below is generated by plot.py at 2018-04-18 00:16:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.58 Mbit/s
95th percentile per-packet one-way delay: 63.798 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 215.58 Mbit/s
95th percentile per-packet one-way delay: 63.798 ms
Loss rate: 0.47%
```

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

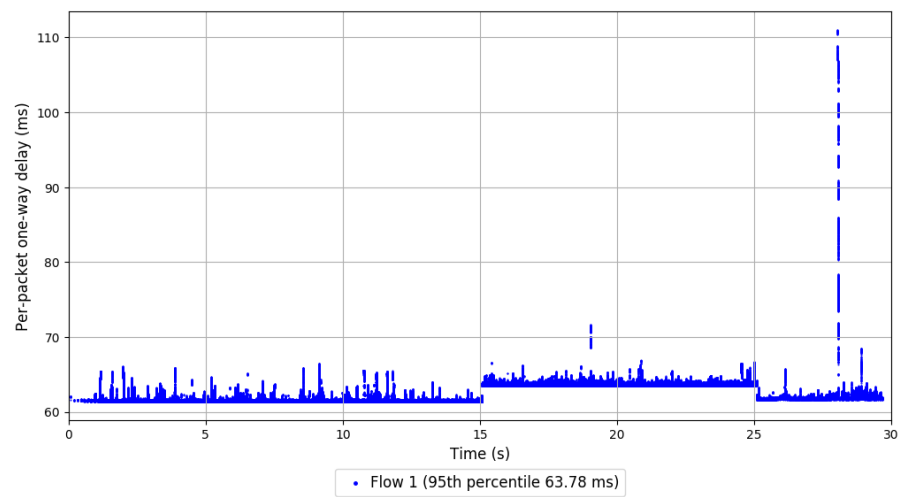
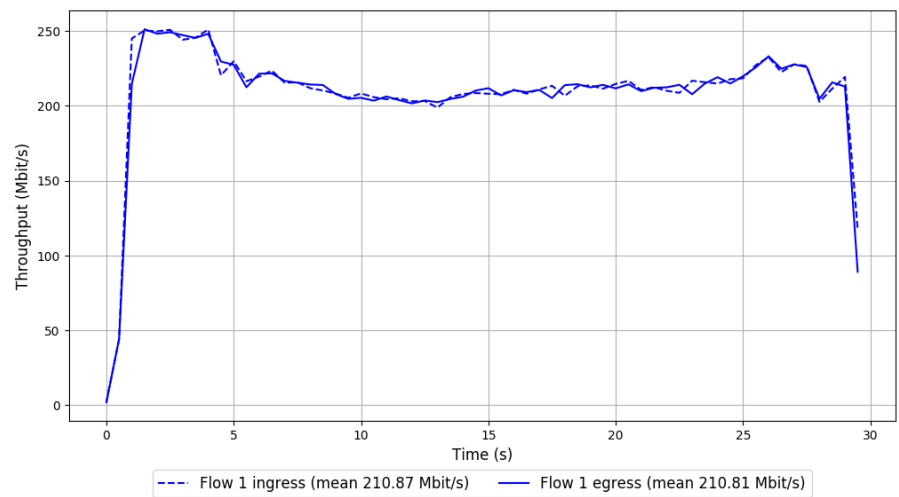


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 19:08:32
End at: 2018-04-17 19:09:02

# Below is generated by plot.py at 2018-04-18 00:16:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.81 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 210.81 Mbit/s
95th percentile per-packet one-way delay: 63.781 ms
Loss rate: 0.45%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 19:21:37

End at: 2018-04-17 19:22:08

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.84 Mbit/s

95th percentile per-packet one-way delay: 61.814 ms

Loss rate: 0.43%

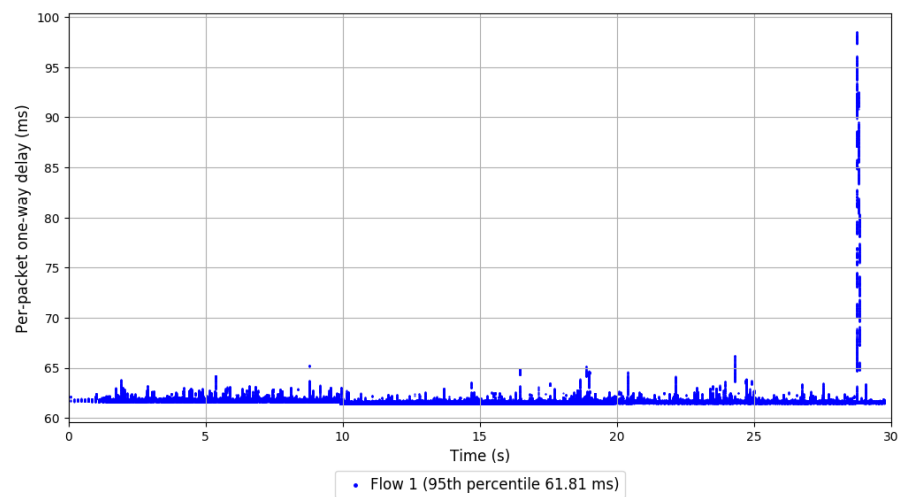
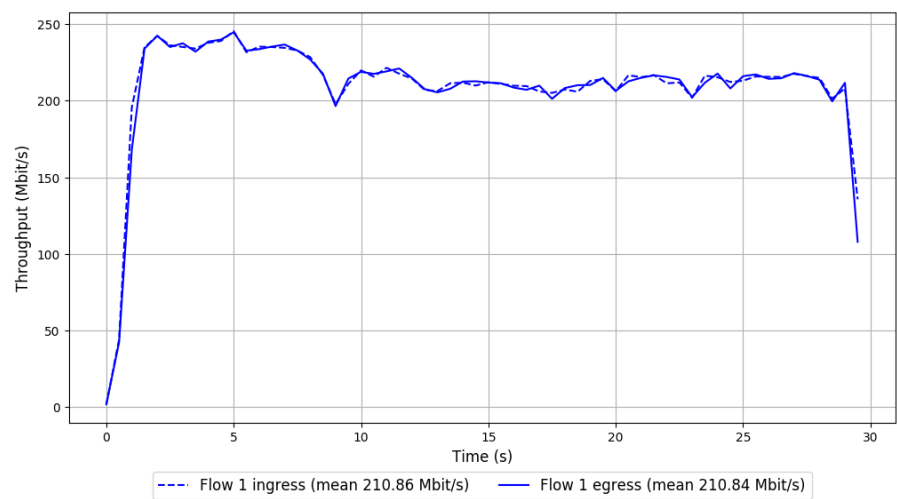
-- Flow 1:

Average throughput: 210.84 Mbit/s

95th percentile per-packet one-way delay: 61.814 ms

Loss rate: 0.43%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 19:34:46

End at: 2018-04-17 19:35:16

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.90 Mbit/s

95th percentile per-packet one-way delay: 63.823 ms

Loss rate: 0.44%

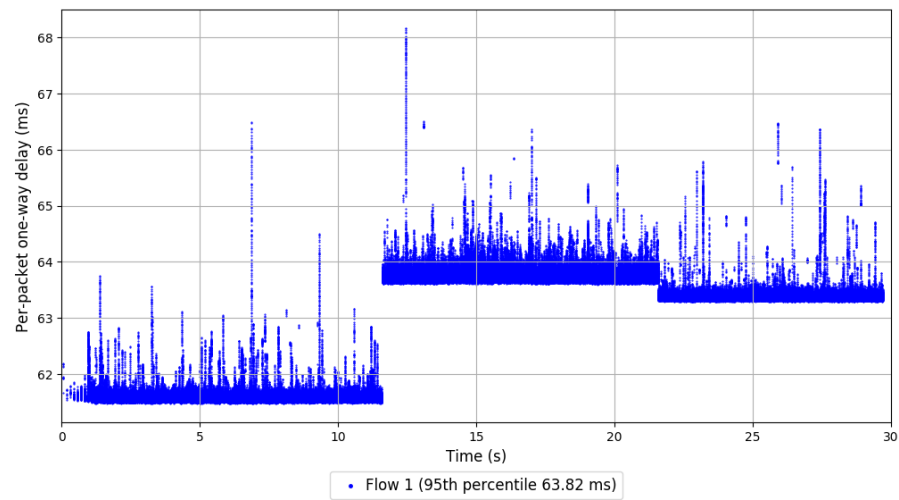
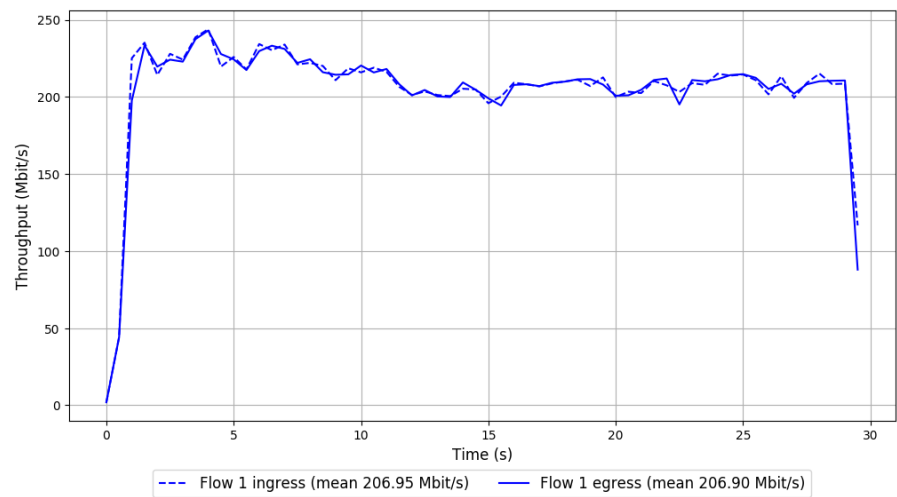
-- Flow 1:

Average throughput: 206.90 Mbit/s

95th percentile per-packet one-way delay: 63.823 ms

Loss rate: 0.44%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 19:47:45

End at: 2018-04-17 19:48:15

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.50 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.42%

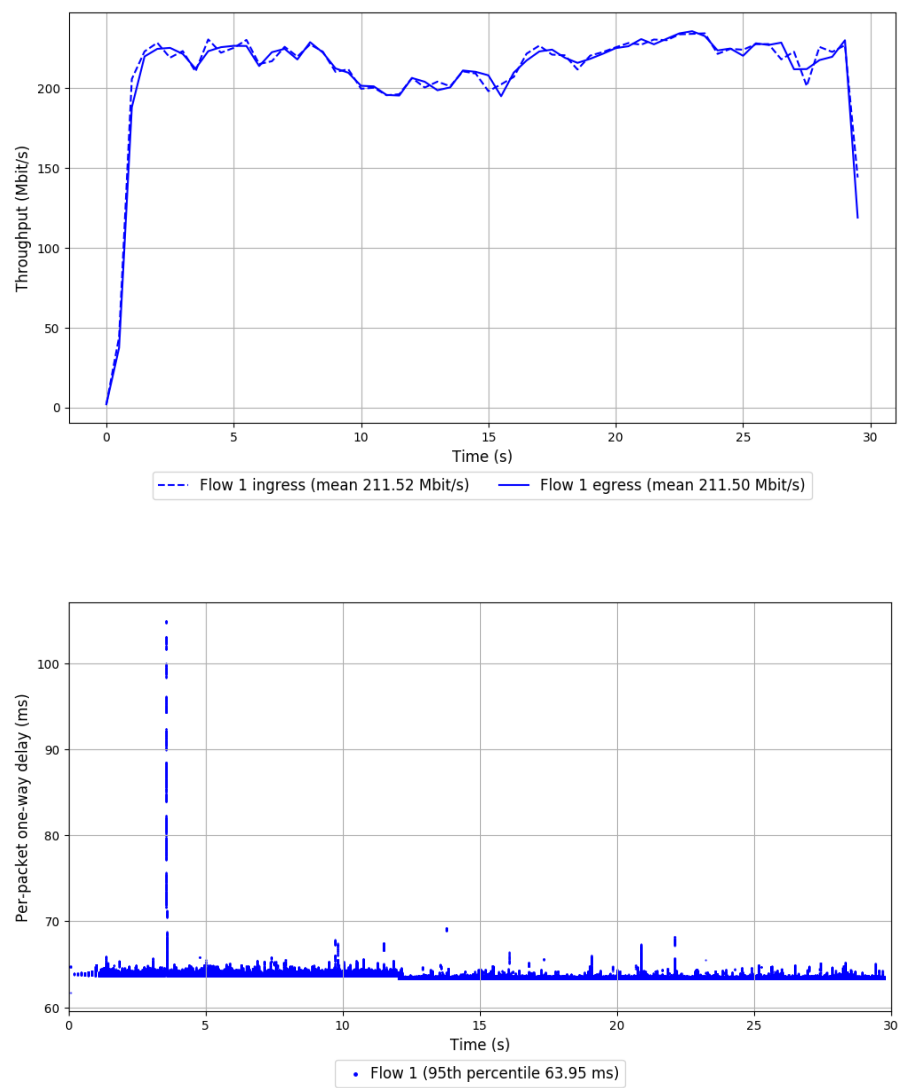
-- Flow 1:

Average throughput: 211.50 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.42%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 20:00:54

End at: 2018-04-17 20:01:24

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.23 Mbit/s

95th percentile per-packet one-way delay: 63.585 ms

Loss rate: 0.43%

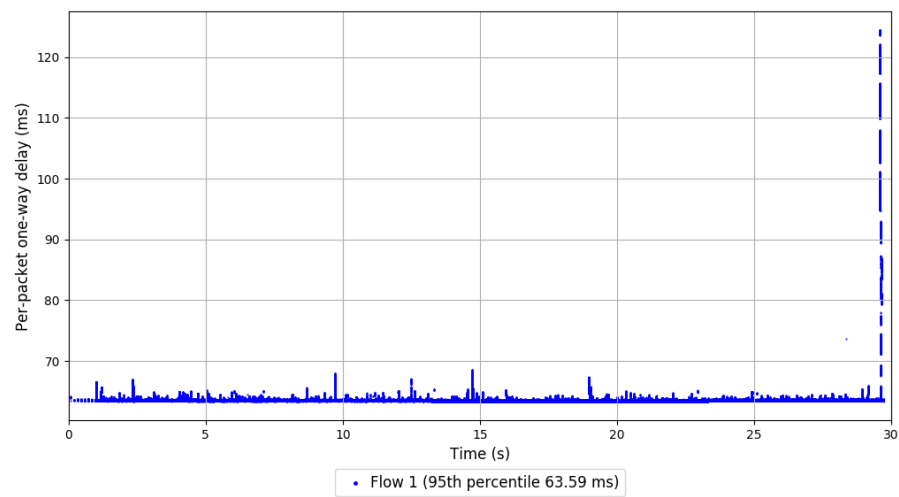
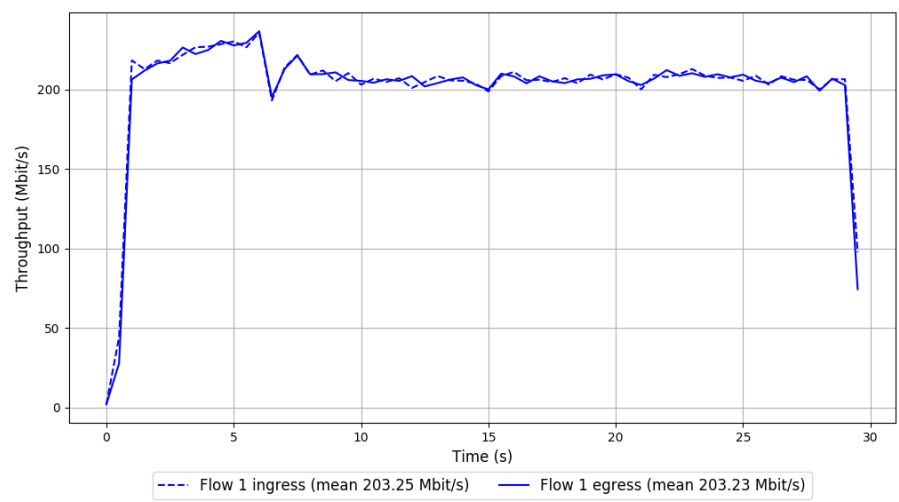
-- Flow 1:

Average throughput: 203.23 Mbit/s

95th percentile per-packet one-way delay: 63.585 ms

Loss rate: 0.43%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 20:13:52

End at: 2018-04-17 20:14:22

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.44 Mbit/s

95th percentile per-packet one-way delay: 63.881 ms

Loss rate: 0.45%

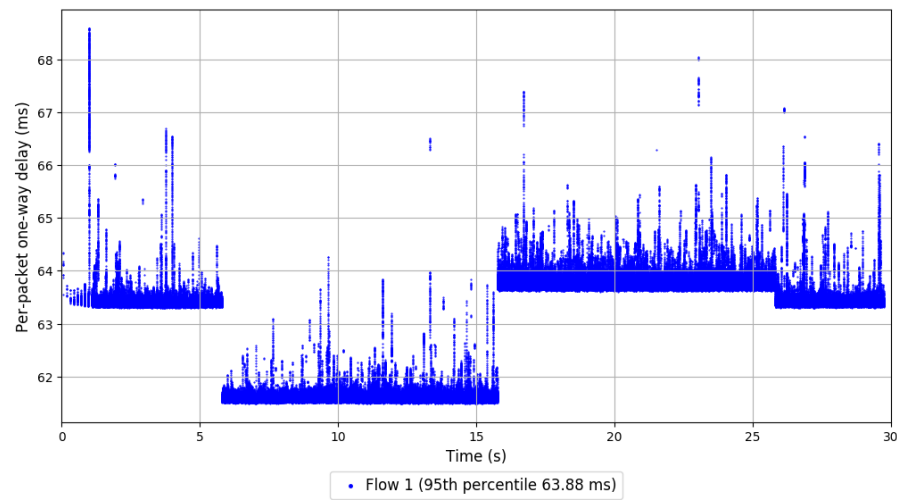
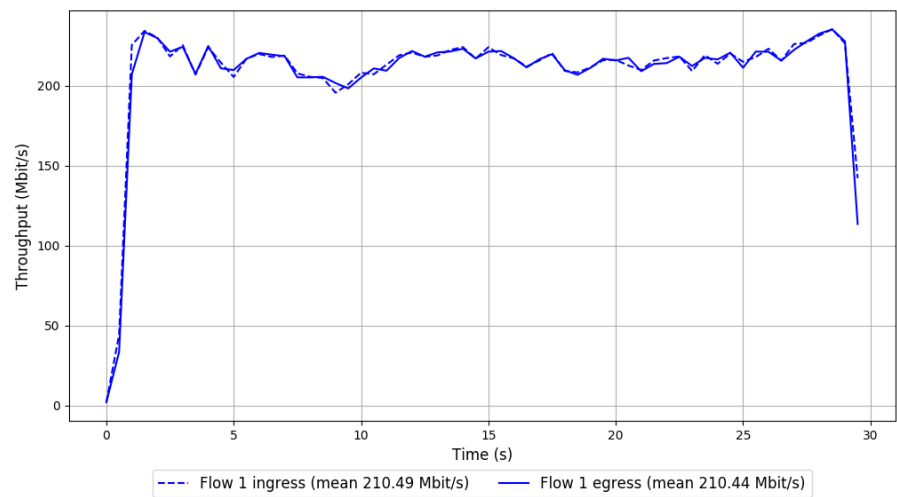
-- Flow 1:

Average throughput: 210.44 Mbit/s

95th percentile per-packet one-way delay: 63.881 ms

Loss rate: 0.45%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 20:26:59

End at: 2018-04-17 20:27:29

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.02 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.69%

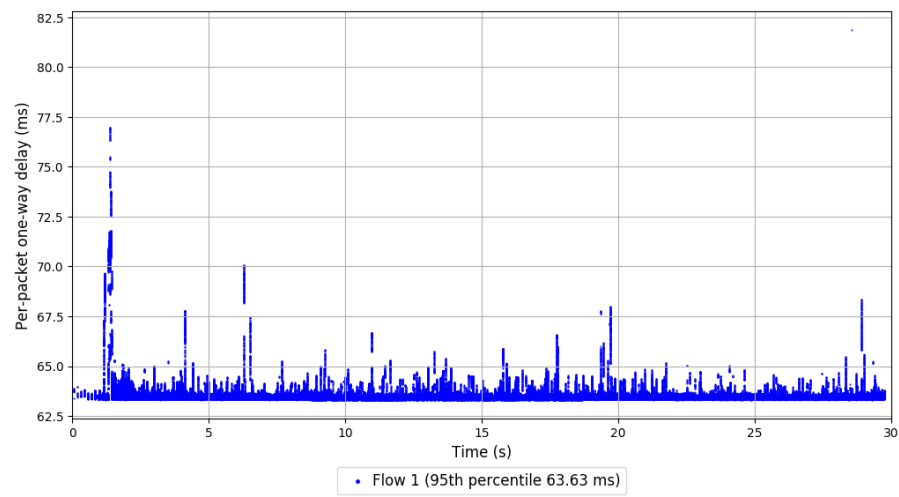
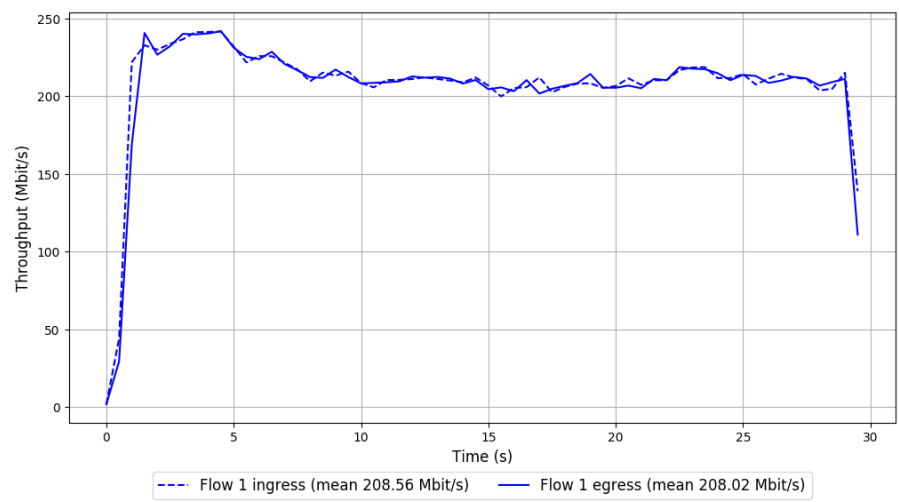
-- Flow 1:

Average throughput: 208.02 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.69%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 20:40:07

End at: 2018-04-17 20:40:37

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.73 Mbit/s

95th percentile per-packet one-way delay: 63.623 ms

Loss rate: 0.41%

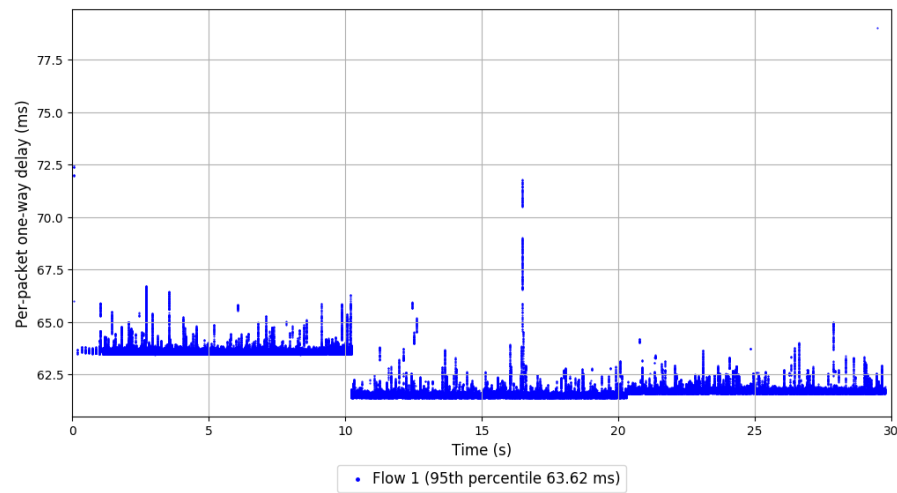
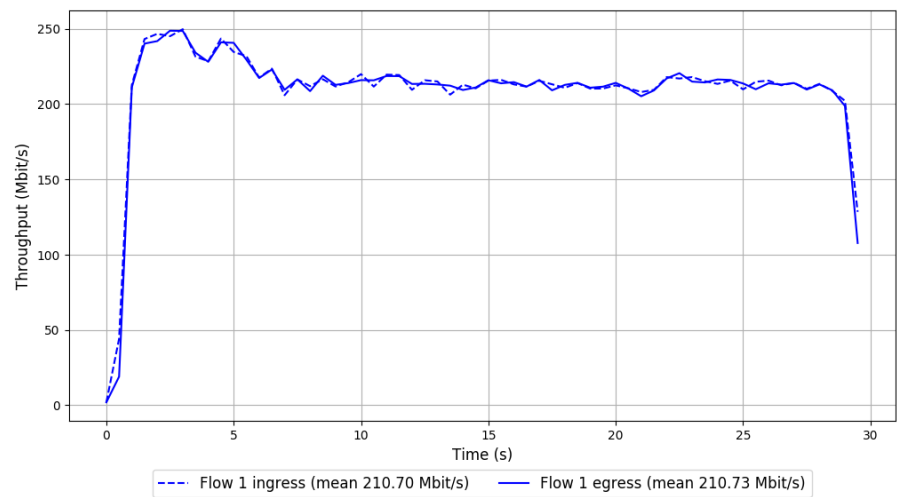
-- Flow 1:

Average throughput: 210.73 Mbit/s

95th percentile per-packet one-way delay: 63.623 ms

Loss rate: 0.41%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 20:53:10

End at: 2018-04-17 20:53:40

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.37 Mbit/s

95th percentile per-packet one-way delay: 62.175 ms

Loss rate: 0.43%

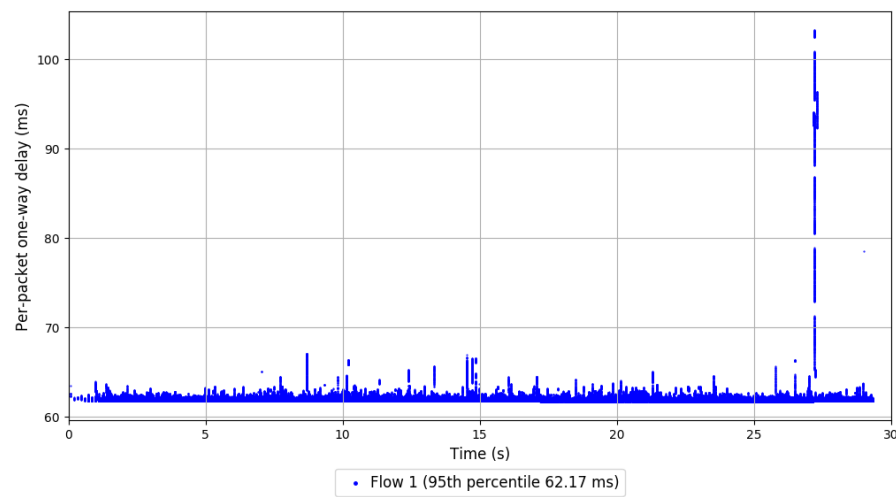
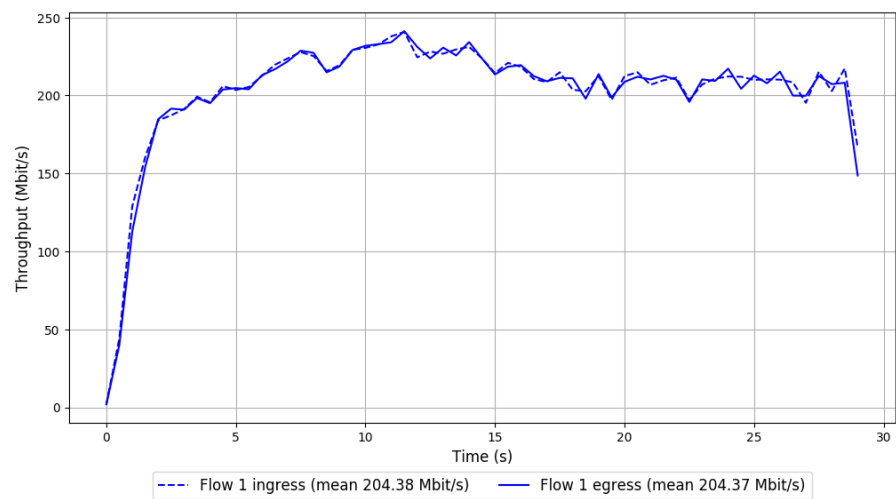
-- Flow 1:

Average throughput: 204.37 Mbit/s

95th percentile per-packet one-way delay: 62.175 ms

Loss rate: 0.43%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 18:52:17

End at: 2018-04-17 18:52:47

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.76 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.49%

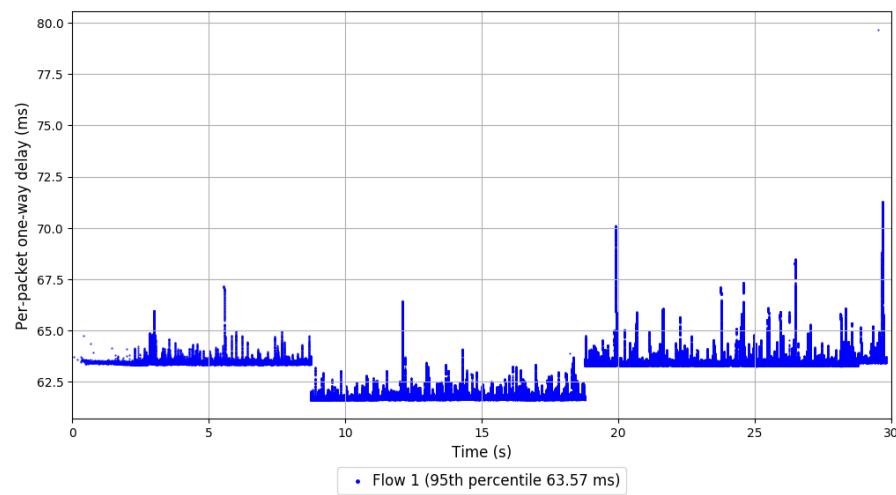
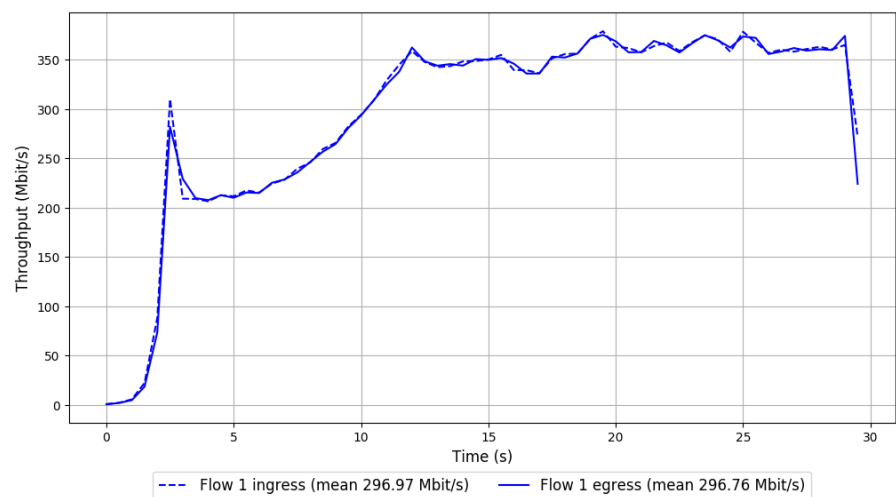
-- Flow 1:

Average throughput: 296.76 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.49%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 19:05:26

End at: 2018-04-17 19:05:56

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.89 Mbit/s

95th percentile per-packet one-way delay: 63.935 ms

Loss rate: 0.51%

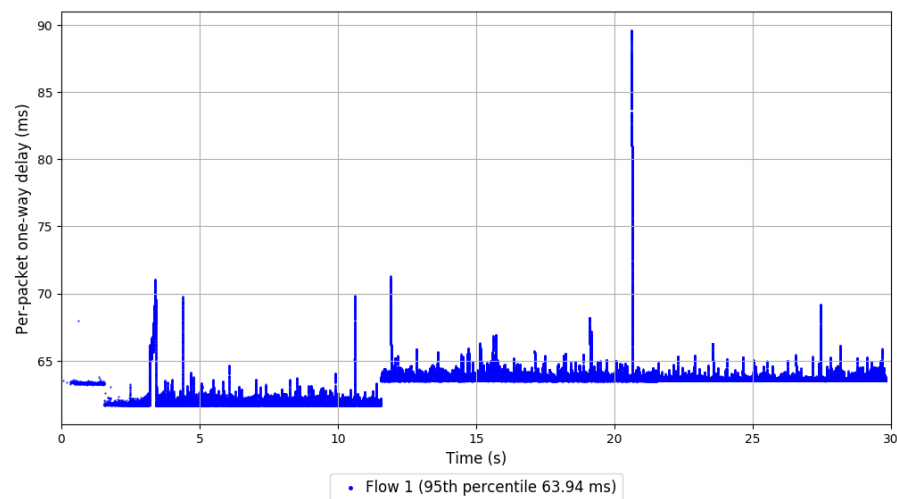
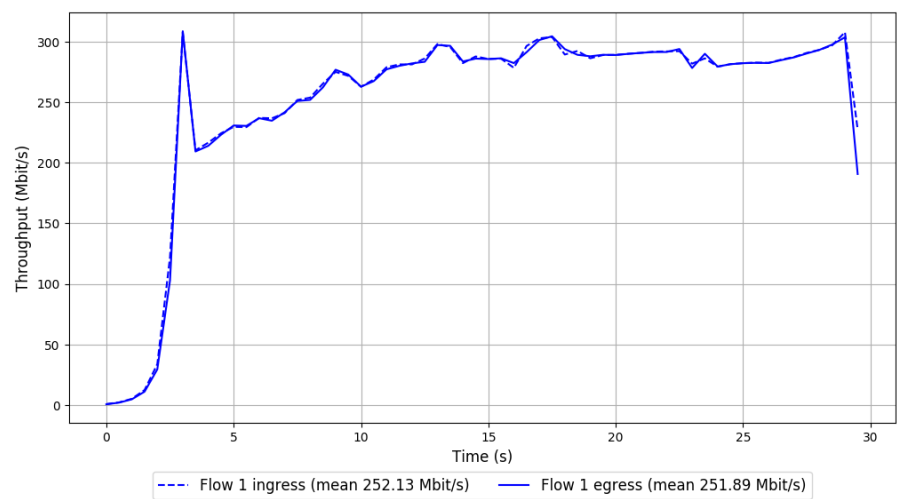
-- Flow 1:

Average throughput: 251.89 Mbit/s

95th percentile per-packet one-way delay: 63.935 ms

Loss rate: 0.51%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 19:18:31

End at: 2018-04-17 19:19:01

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.54 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.55%

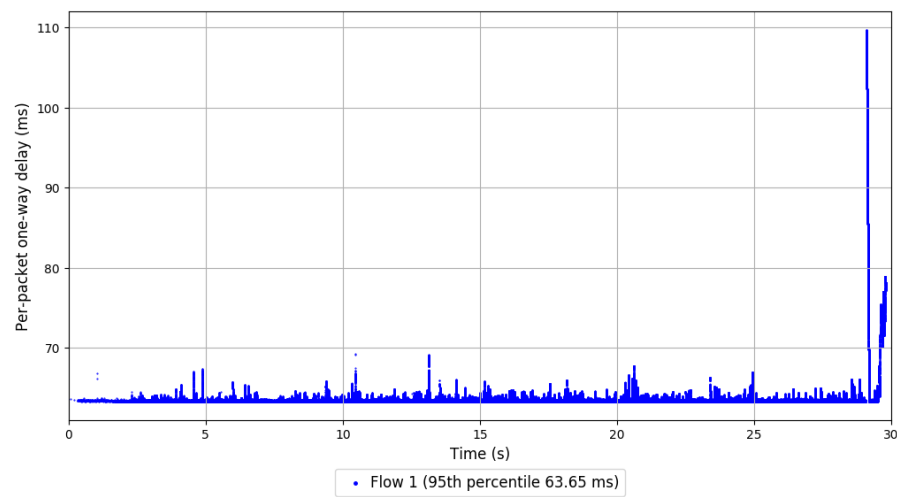
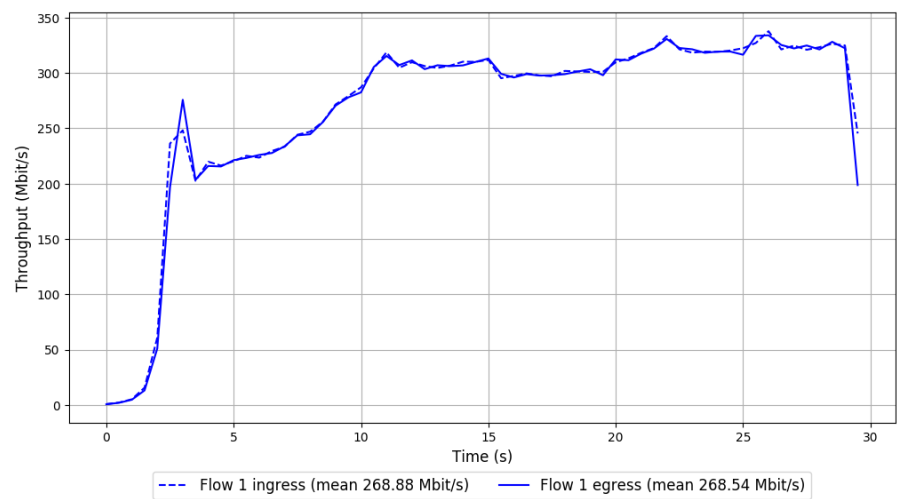
-- Flow 1:

Average throughput: 268.54 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.55%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 19:31:36

End at: 2018-04-17 19:32:06

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.91 Mbit/s

95th percentile per-packet one-way delay: 61.976 ms

Loss rate: 0.39%

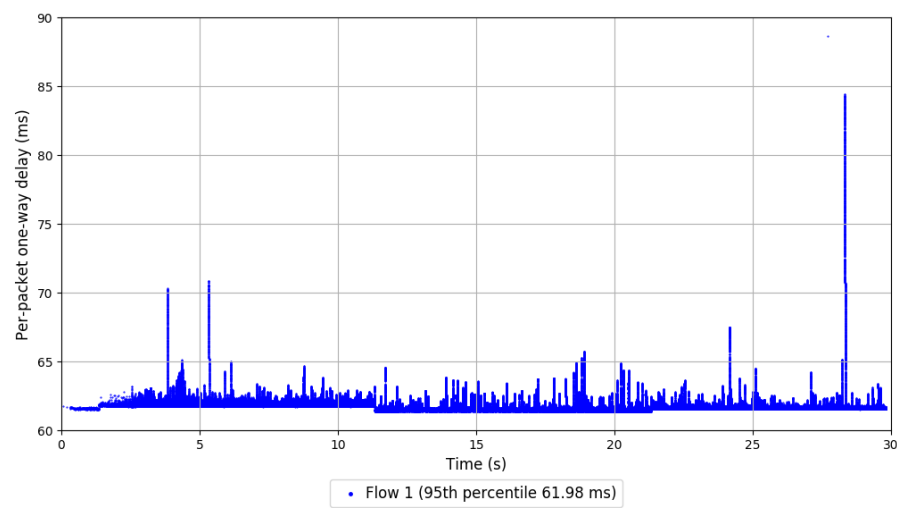
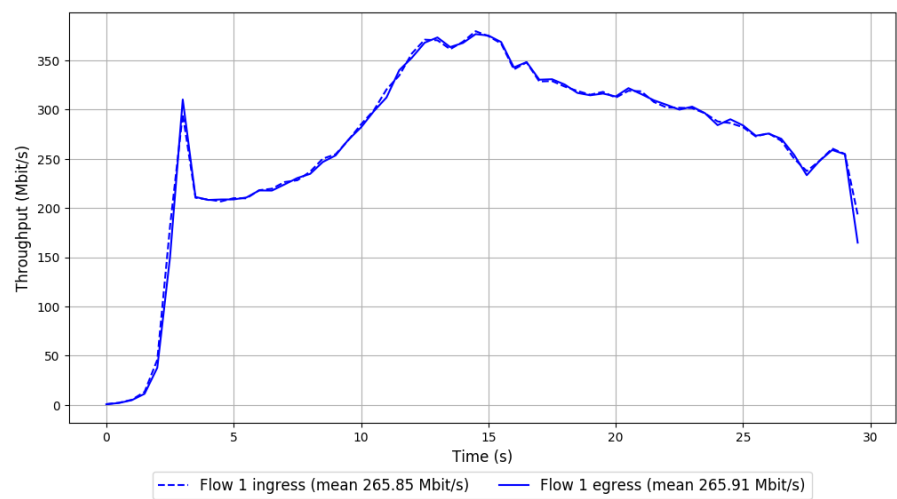
-- Flow 1:

Average throughput: 265.91 Mbit/s

95th percentile per-packet one-way delay: 61.976 ms

Loss rate: 0.39%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 19:44:44

End at: 2018-04-17 19:45:14

Below is generated by plot.py at 2018-04-18 00:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.60 Mbit/s

95th percentile per-packet one-way delay: 66.661 ms

Loss rate: 0.46%

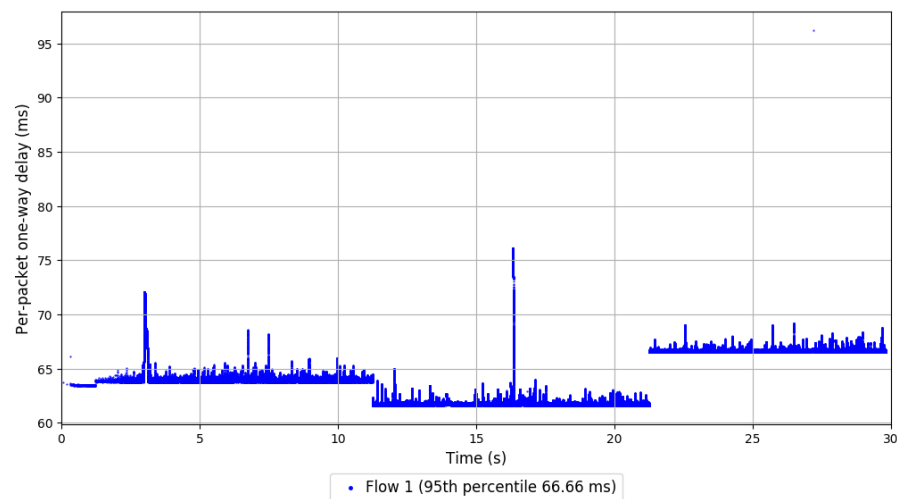
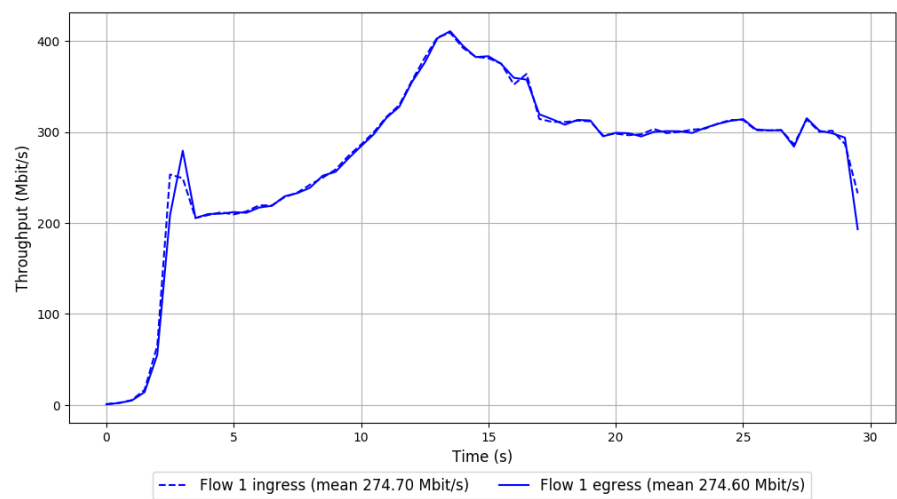
-- Flow 1:

Average throughput: 274.60 Mbit/s

95th percentile per-packet one-way delay: 66.661 ms

Loss rate: 0.46%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 19:57:52

End at: 2018-04-17 19:58:22

Below is generated by plot.py at 2018-04-18 00:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.97 Mbit/s

95th percentile per-packet one-way delay: 66.706 ms

Loss rate: 0.65%

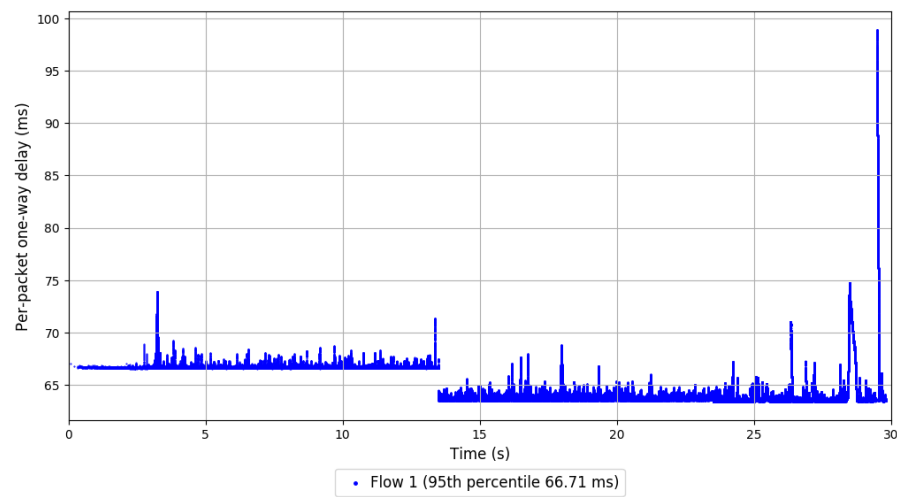
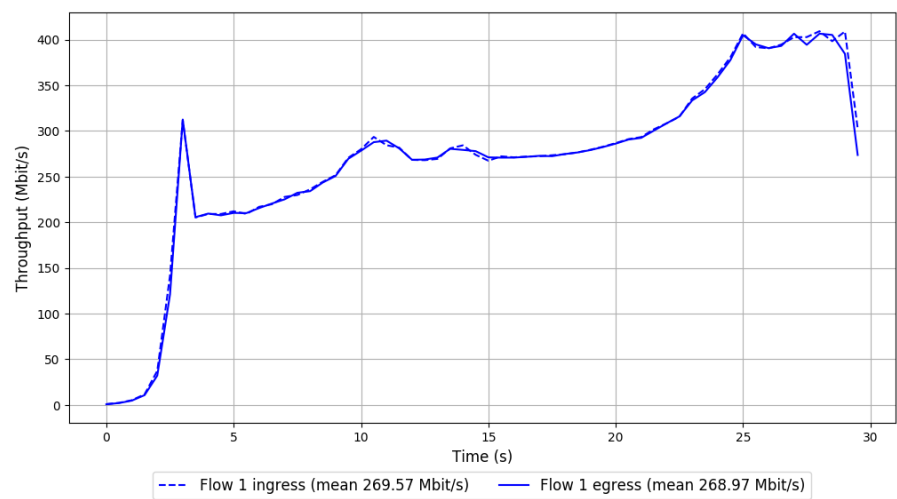
-- Flow 1:

Average throughput: 268.97 Mbit/s

95th percentile per-packet one-way delay: 66.706 ms

Loss rate: 0.65%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 20:10:53

End at: 2018-04-17 20:11:23

Below is generated by plot.py at 2018-04-18 00:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.44 Mbit/s

95th percentile per-packet one-way delay: 64.135 ms

Loss rate: 0.49%

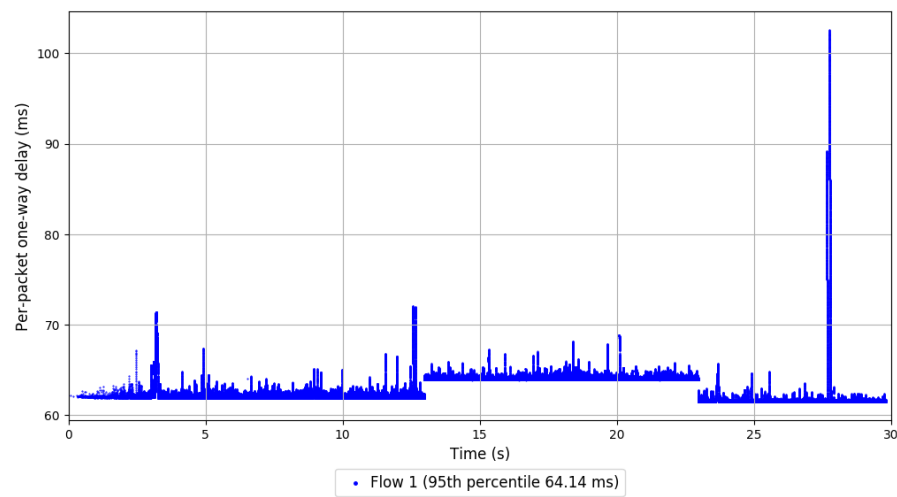
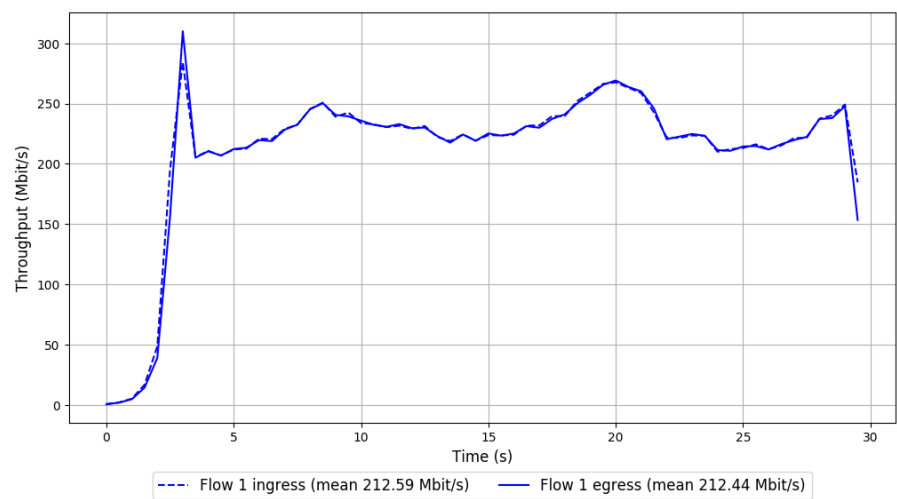
-- Flow 1:

Average throughput: 212.44 Mbit/s

95th percentile per-packet one-way delay: 64.135 ms

Loss rate: 0.49%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 20:23:56

End at: 2018-04-17 20:24:26

Below is generated by plot.py at 2018-04-18 00:16:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.61 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.52%

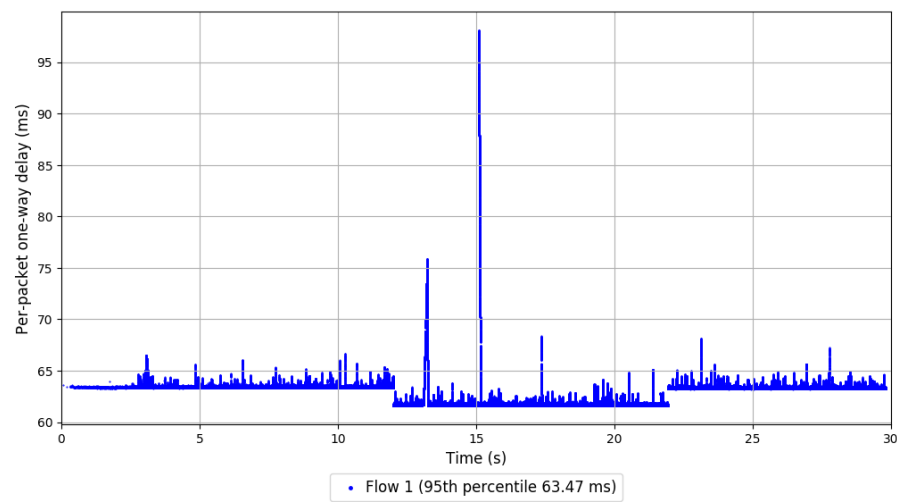
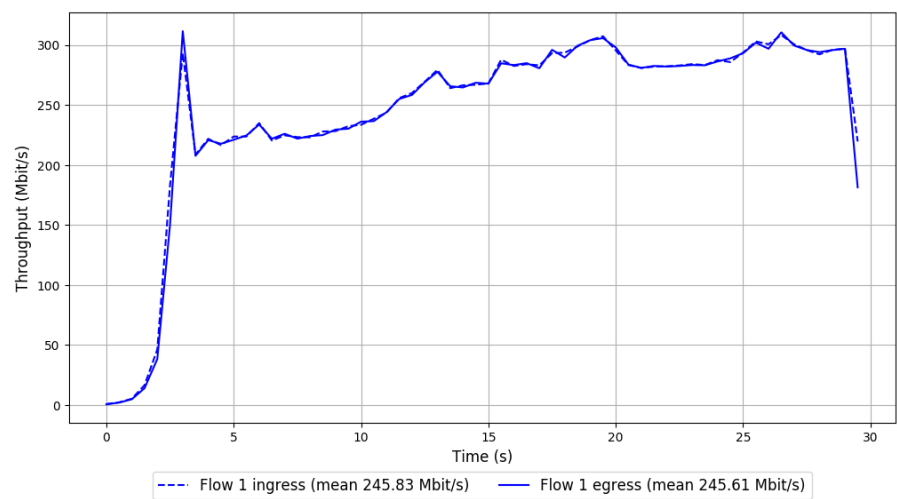
-- Flow 1:

Average throughput: 245.61 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.52%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 20:37:00

End at: 2018-04-17 20:37:30

Below is generated by plot.py at 2018-04-18 00:17:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.31 Mbit/s

95th percentile per-packet one-way delay: 63.804 ms

Loss rate: 0.53%

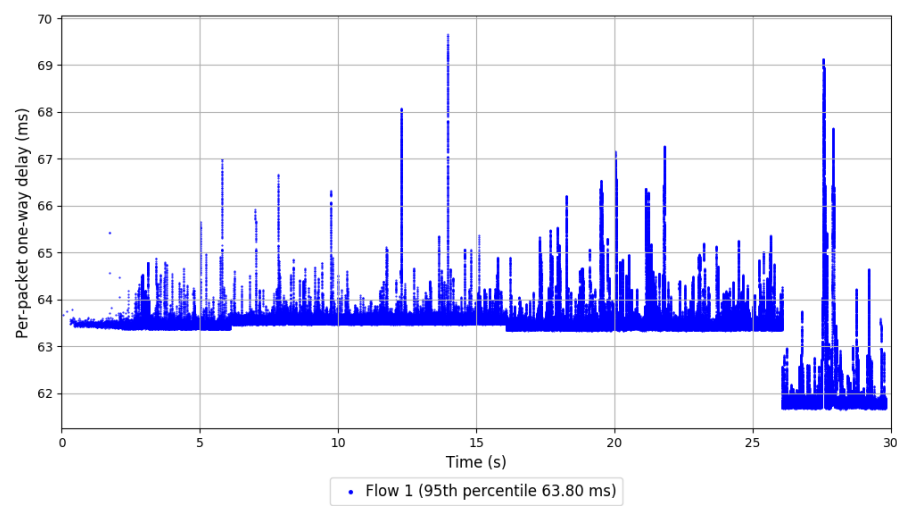
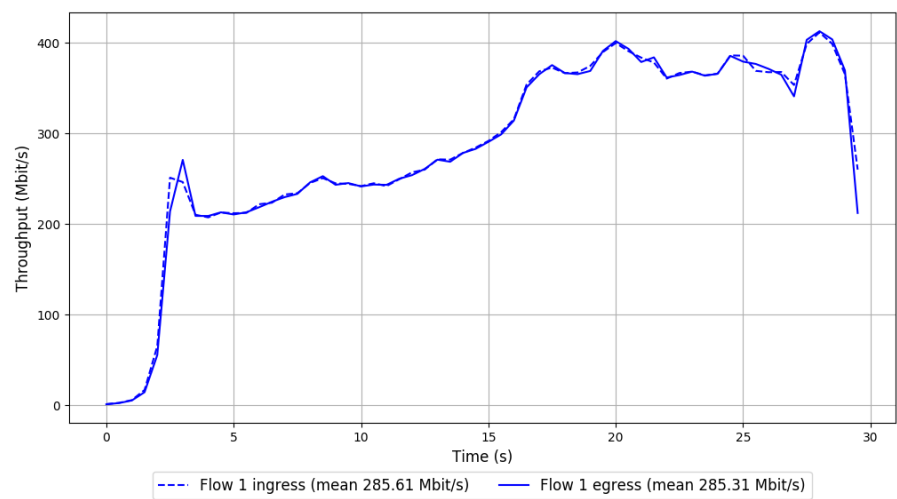
-- Flow 1:

Average throughput: 285.31 Mbit/s

95th percentile per-packet one-way delay: 63.804 ms

Loss rate: 0.53%

Run 9: Report of PCC-Vivace — Data Link

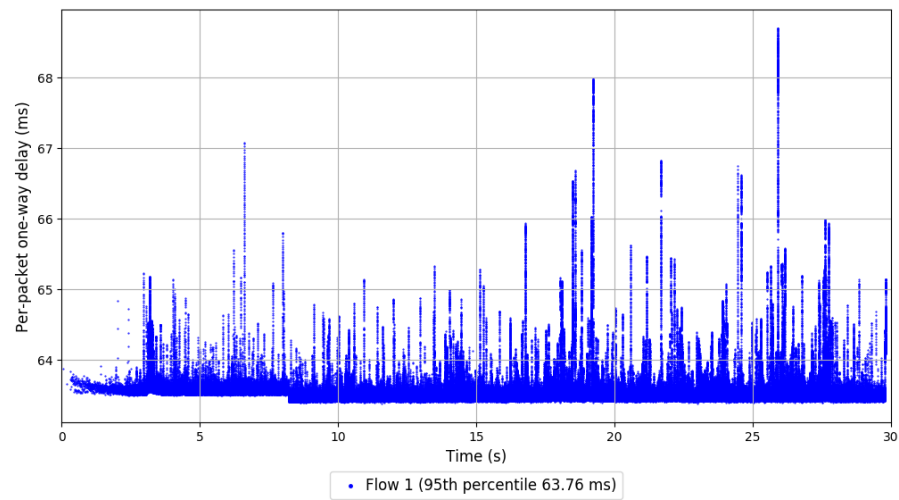
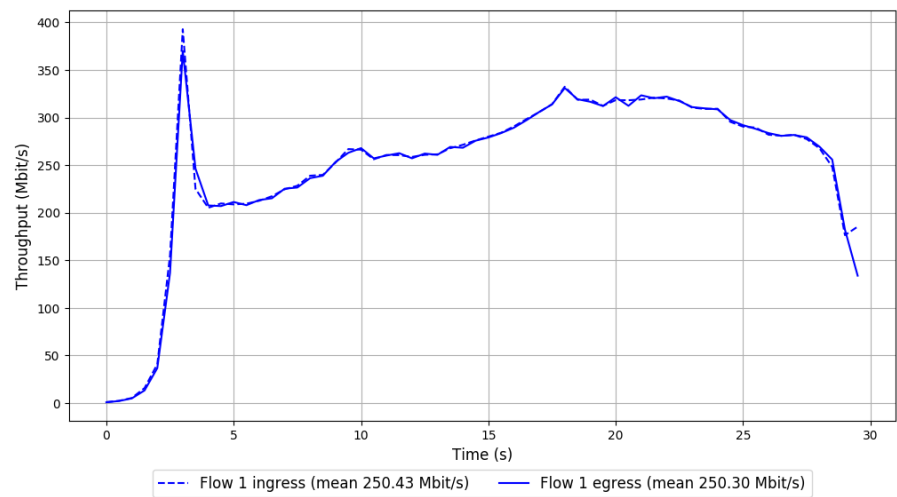


```
Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 20:50:09
End at: 2018-04-17 20:50:39

# Below is generated by plot.py at 2018-04-18 00:17:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.30 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 250.30 Mbit/s
95th percentile per-packet one-way delay: 63.763 ms
Loss rate: 0.47%
```

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 18:54:10

End at: 2018-04-17 18:54:40

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 19:07:16

End at: 2018-04-17 19:07:46

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 19:20:21

End at: 2018-04-17 19:20:51

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 19:33:30

End at: 2018-04-17 19:34:00

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 19:46:30

End at: 2018-04-17 19:47:00

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 19:59:38

End at: 2018-04-17 20:00:08

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 20:12:35

End at: 2018-04-17 20:13:05

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 20:25:42

End at: 2018-04-17 20:26:12

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 20:38:51

End at: 2018-04-17 20:39:21

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 20:51:54

End at: 2018-04-17 20:52:24

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing