

Pantheon Report

Generated at 2018-04-17 08:44:28 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 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).

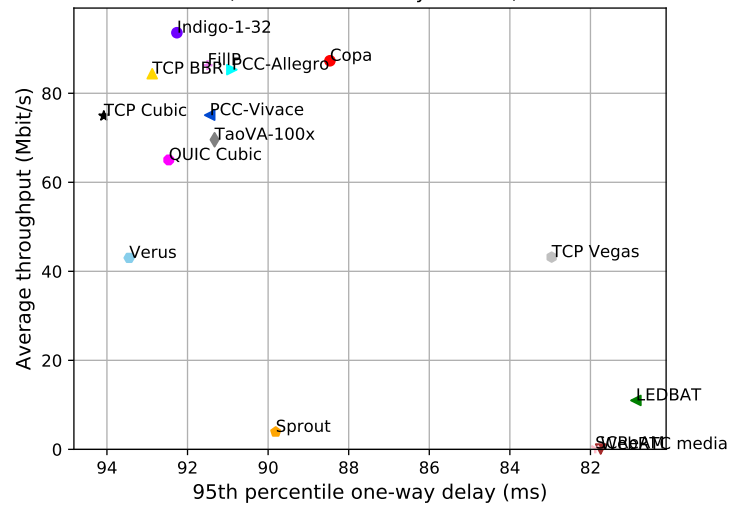
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

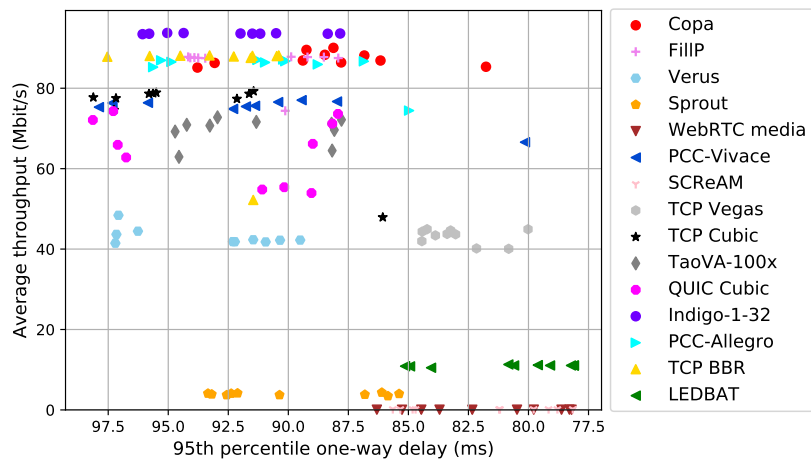
Git summary:

```
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme



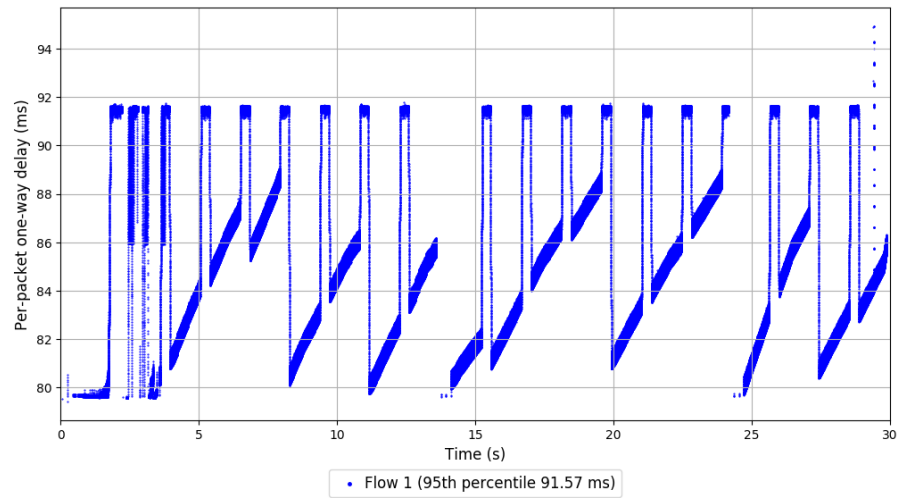
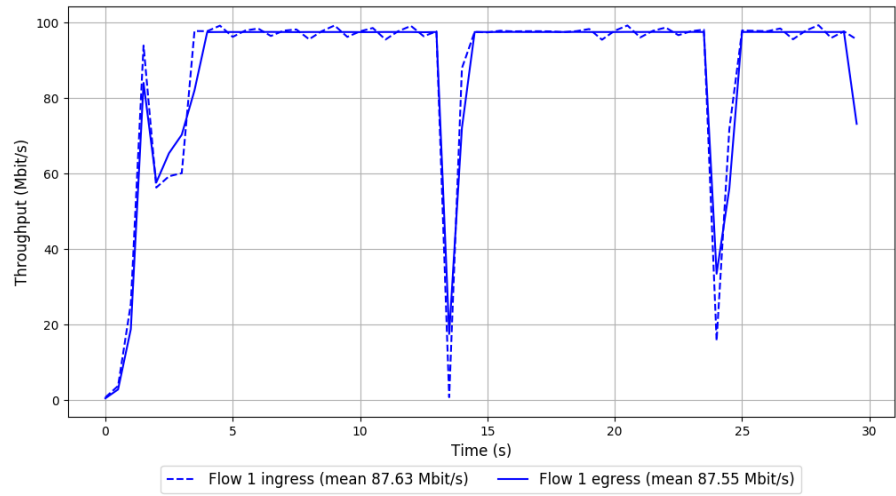
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	84.40	92.88	1.32
TCP Cubic	10	74.93	94.08	0.67
LEDBAT	10	10.99	80.87	1.20
PCC-Allegro	10	85.31	90.90	0.81
QUIC Cubic	10	65.02	92.47	0.92
SCReAM	10	0.22	81.88	0.64
WebRTC media	10	0.06	81.75	0.04
Sprout	10	3.93	89.81	0.74
TaoVA-100x	10	69.56	91.33	2.16
TCP Vegas	10	43.19	82.96	0.69
Verus	10	43.02	93.45	1.49
Copa	10	87.30	88.47	1.26
FillP	10	86.32	91.50	1.61
Indigo-1-32	10	93.60	92.26	0.66
PCC-Vivace	10	75.08	91.45	0.88
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 01:40:54
End at: 2018-04-17 01:41:24
Local clock offset: -5.422 ms
Remote clock offset: 11.546 ms

Below is generated by plot.py at 2018-04-17 08:26:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.55 Mbit/s
95th percentile per-packet one-way delay: 91.566 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 87.55 Mbit/s
95th percentile per-packet one-way delay: 91.566 ms
Loss rate: 0.74%

Run 1: Report of TCP BBR — Data Link

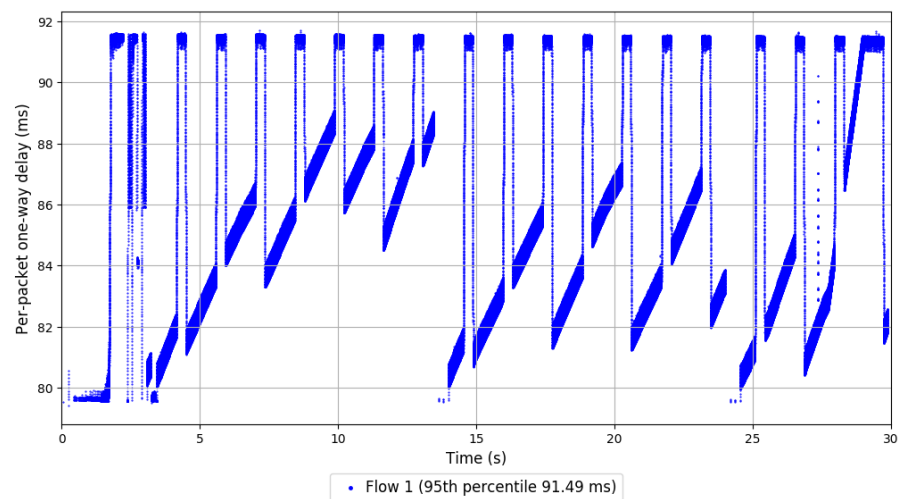
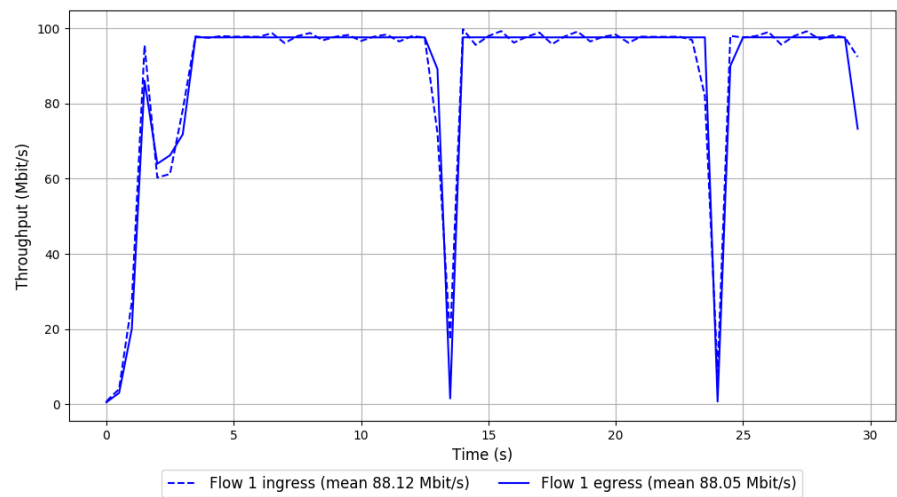


Run 2: Statistics of TCP BBR

Start at: 2018-04-17 02:01:47
End at: 2018-04-17 02:02:17
Local clock offset: -4.335 ms
Remote clock offset: 11.008 ms

Below is generated by plot.py at 2018-04-17 08:26:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.05 Mbit/s
95th percentile per-packet one-way delay: 91.494 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 88.05 Mbit/s
95th percentile per-packet one-way delay: 91.494 ms
Loss rate: 0.70%

Run 2: Report of TCP BBR — Data Link

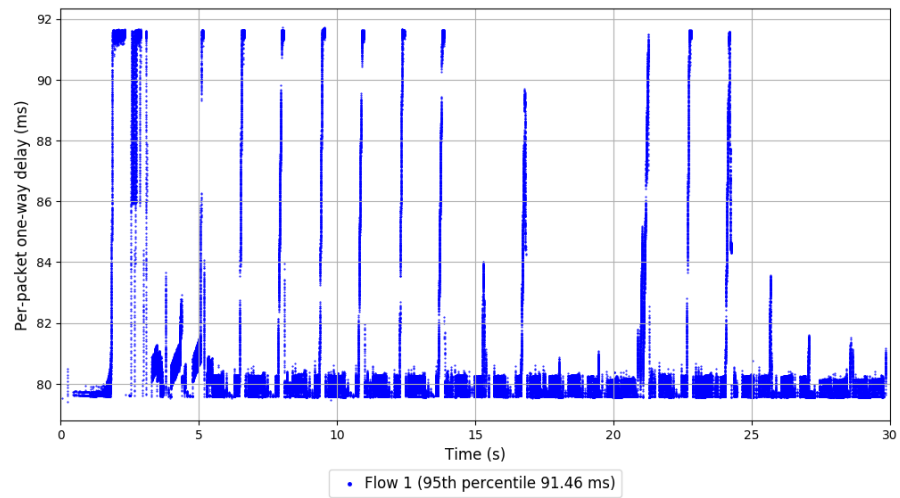
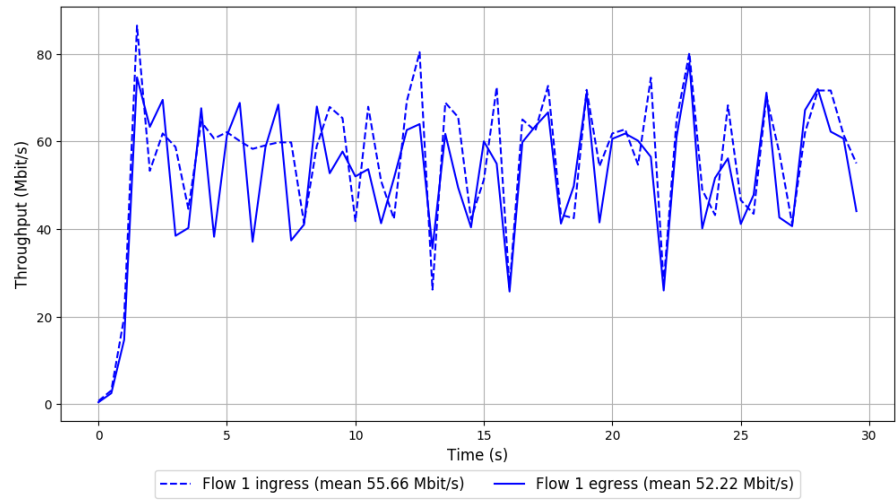


Run 3: Statistics of TCP BBR

Start at: 2018-04-17 02:22:39
End at: 2018-04-17 02:23:09
Local clock offset: -4.371 ms
Remote clock offset: 11.404 ms

Below is generated by plot.py at 2018-04-17 08:26:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.22 Mbit/s
95th percentile per-packet one-way delay: 91.460 ms
Loss rate: 6.70%
-- Flow 1:
Average throughput: 52.22 Mbit/s
95th percentile per-packet one-way delay: 91.460 ms
Loss rate: 6.70%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-17 02:43:35

End at: 2018-04-17 02:44:05

Local clock offset: -4.1 ms

Remote clock offset: 5.72 ms

Below is generated by plot.py at 2018-04-17 08:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 95.774 ms

Loss rate: 0.73%

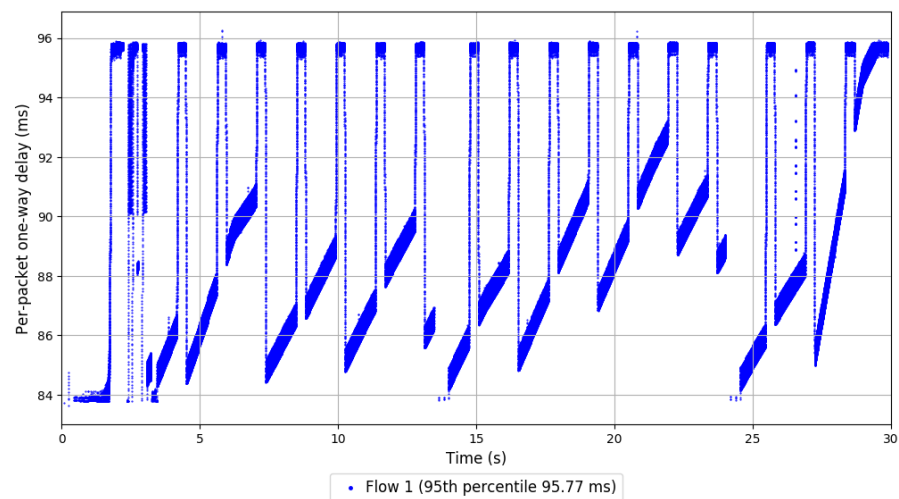
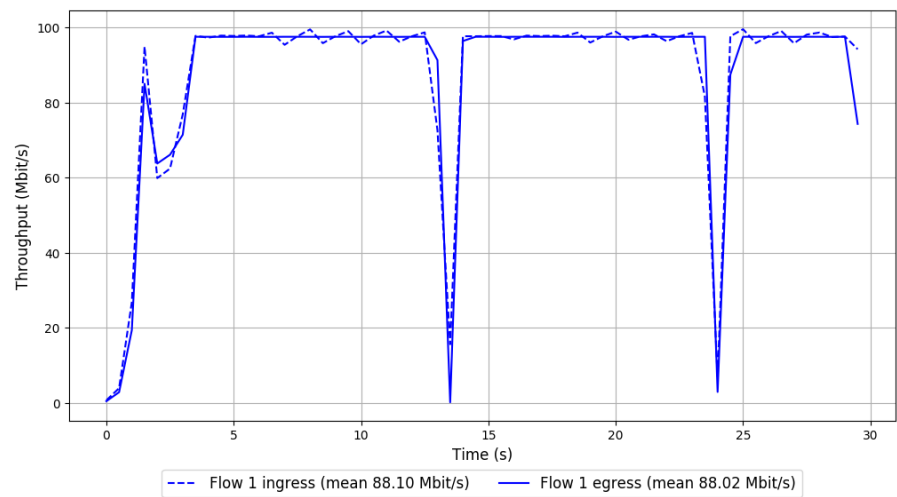
-- Flow 1:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 95.774 ms

Loss rate: 0.73%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 03:04:27

End at: 2018-04-17 03:04:57

Local clock offset: -4.275 ms

Remote clock offset: 5.945 ms

Below is generated by plot.py at 2018-04-17 08:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 97.537 ms

Loss rate: 0.72%

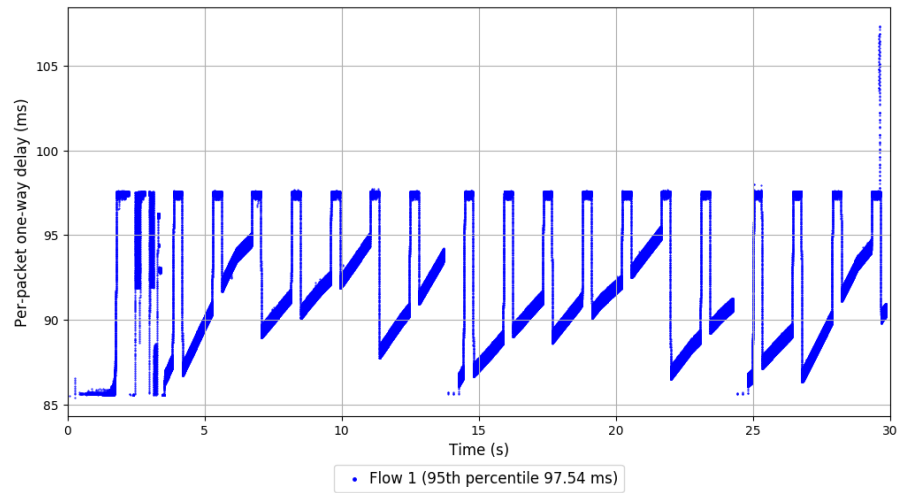
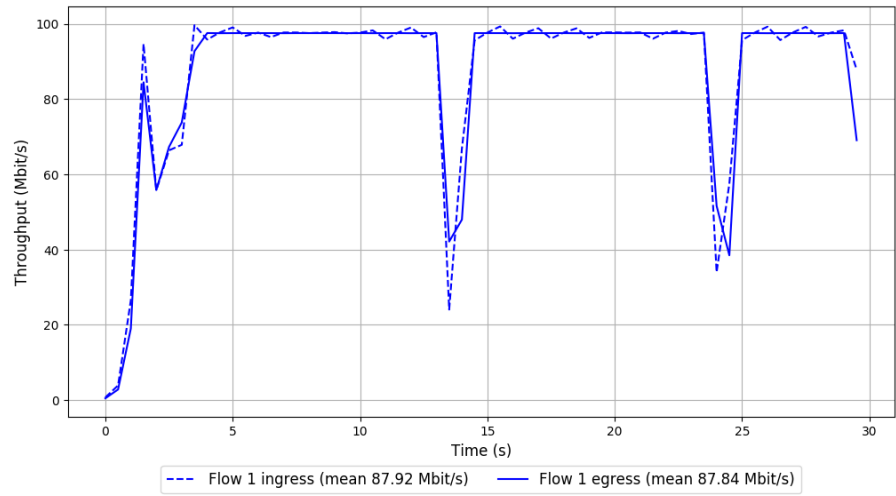
-- Flow 1:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 97.537 ms

Loss rate: 0.72%

Run 5: Report of TCP BBR — Data Link

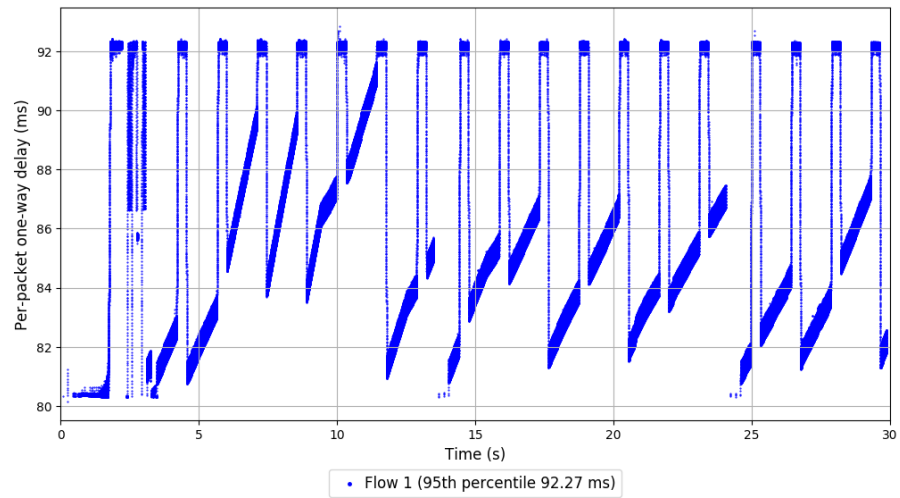
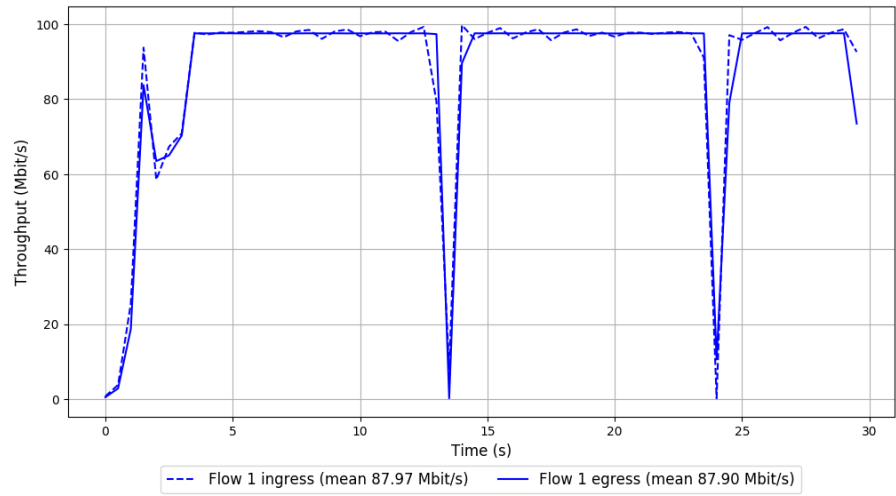


Run 6: Statistics of TCP BBR

Start at: 2018-04-17 03:25:17
End at: 2018-04-17 03:25:47
Local clock offset: -3.635 ms
Remote clock offset: 10.034 ms

Below is generated by plot.py at 2018-04-17 08:26:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 92.273 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 92.273 ms
Loss rate: 0.70%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 03:46:09

End at: 2018-04-17 03:46:39

Local clock offset: -4.795 ms

Remote clock offset: 9.275 ms

Below is generated by plot.py at 2018-04-17 08:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 93.279 ms

Loss rate: 0.73%

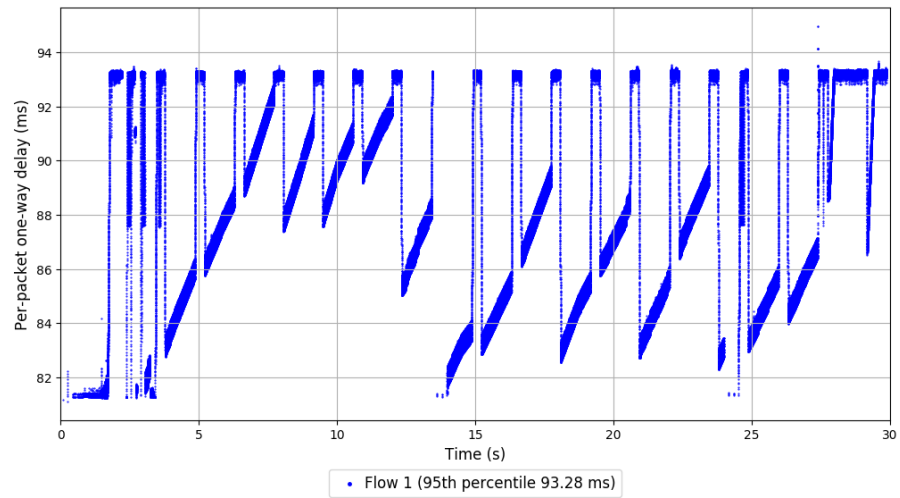
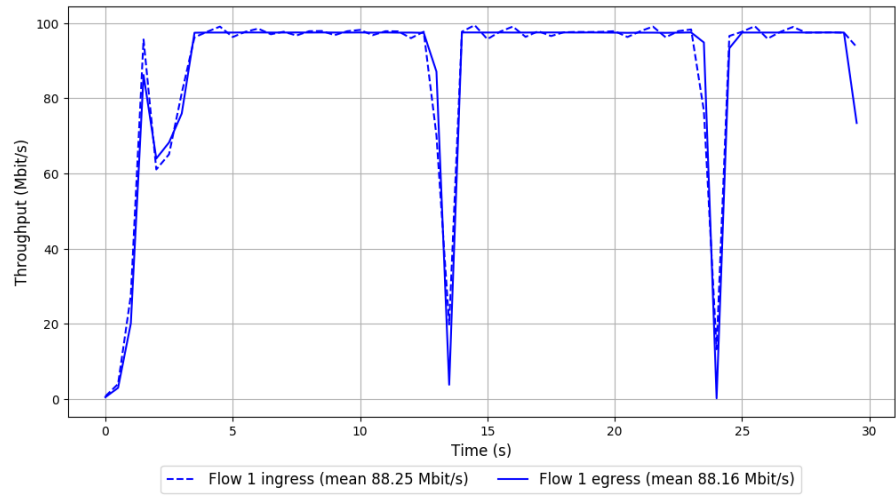
-- Flow 1:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 93.279 ms

Loss rate: 0.73%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

End at: 2018-04-17 04:07:34

Local clock offset: -6.372 ms

Remote clock offset: 5.623 ms

Below is generated by plot.py at 2018-04-17 08:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.09 Mbit/s

95th percentile per-packet one-way delay: 94.497 ms

Loss rate: 0.71%

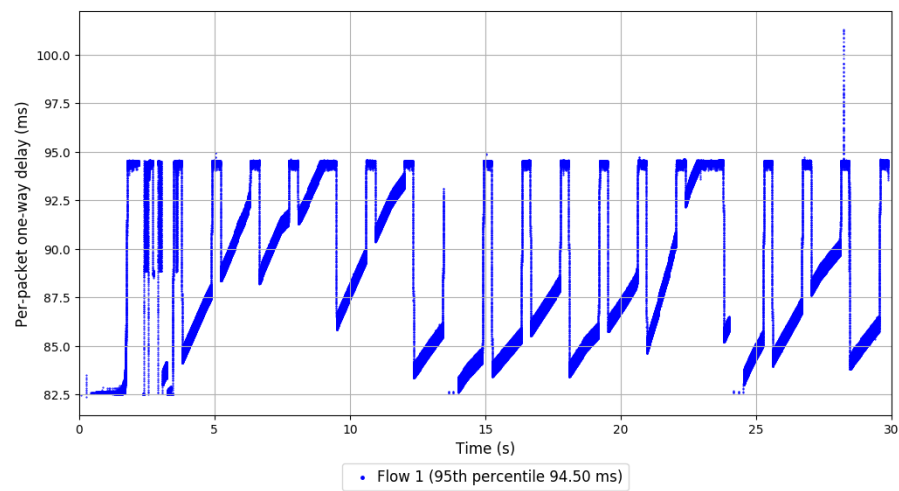
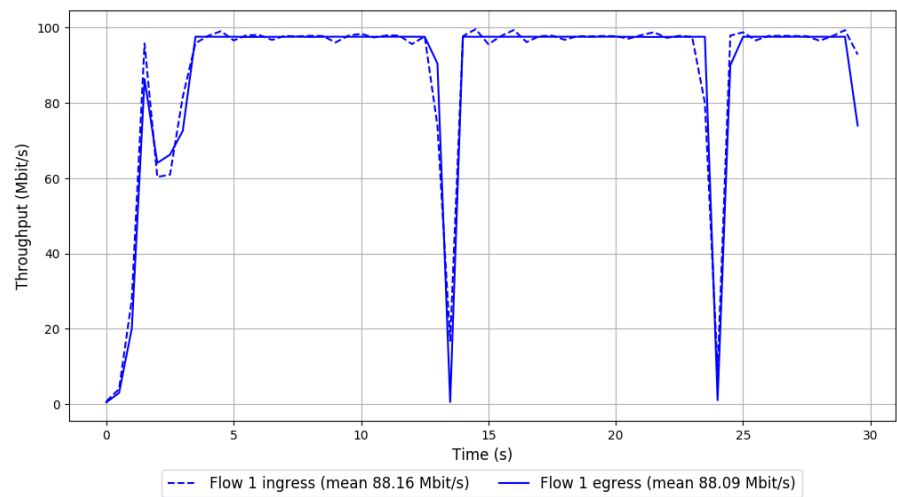
-- Flow 1:

Average throughput: 88.09 Mbit/s

95th percentile per-packet one-way delay: 94.497 ms

Loss rate: 0.71%

Run 8: Report of TCP BBR — Data Link

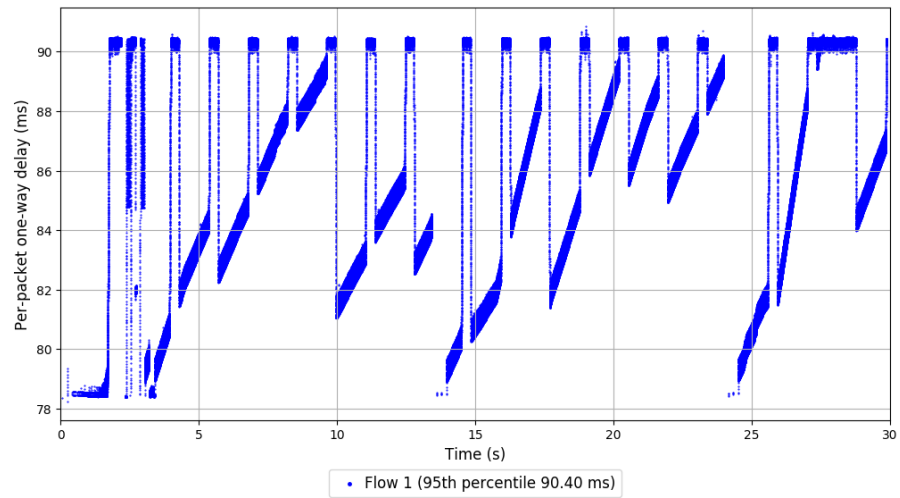
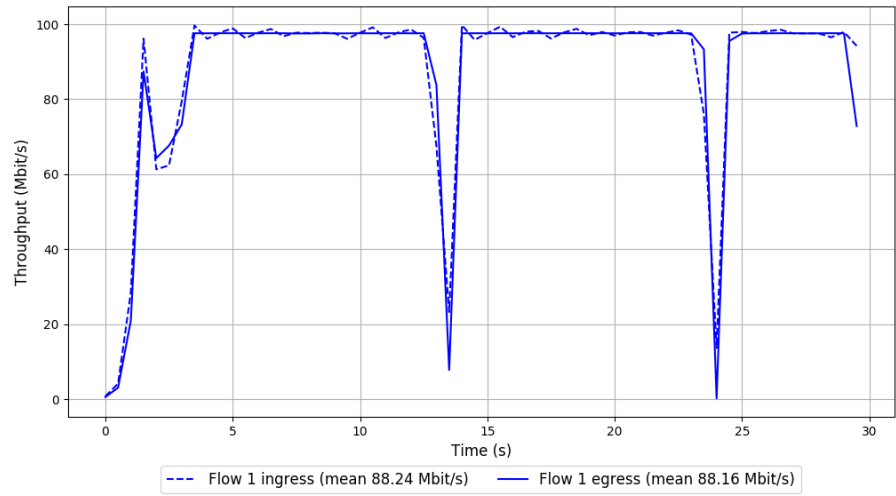


Run 9: Statistics of TCP BBR

Start at: 2018-04-17 04:28:01
End at: 2018-04-17 04:28:31
Local clock offset: -4.71 ms
Remote clock offset: 11.769 ms

Below is generated by plot.py at 2018-04-17 08:27:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.16 Mbit/s
95th percentile per-packet one-way delay: 90.401 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 88.16 Mbit/s
95th percentile per-packet one-way delay: 90.401 ms
Loss rate: 0.72%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 04:48:56

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

Local clock offset: -3.455 ms

Remote clock offset: 12.47 ms

Below is generated by plot.py at 2018-04-17 08:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 90.483 ms

Loss rate: 0.72%

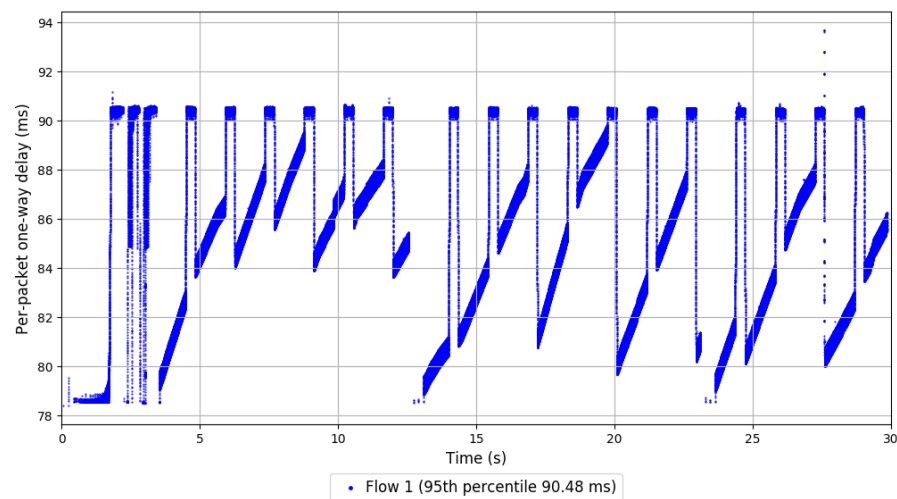
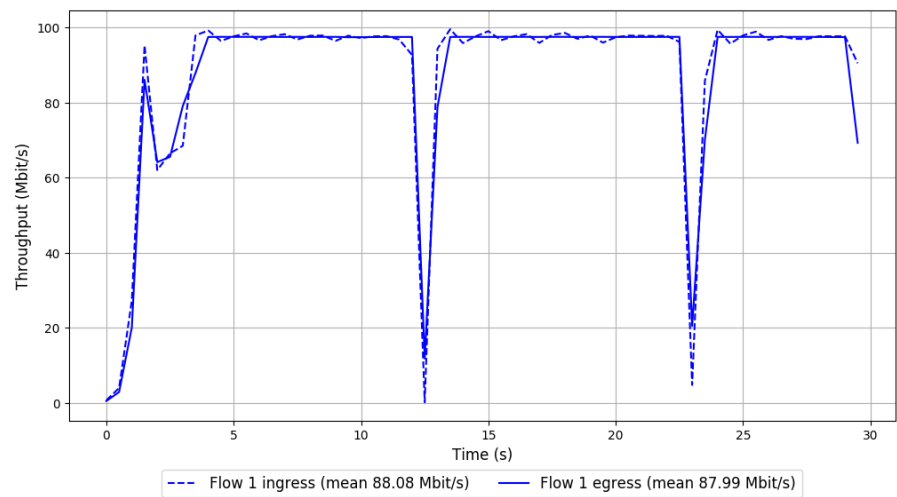
-- Flow 1:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 90.483 ms

Loss rate: 0.72%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 01:35:57

End at: 2018-04-17 01:36:27

Local clock offset: -5.461 ms

Remote clock offset: 5.696 ms

Below is generated by plot.py at 2018-04-17 08:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 95.802 ms

Loss rate: 0.64%

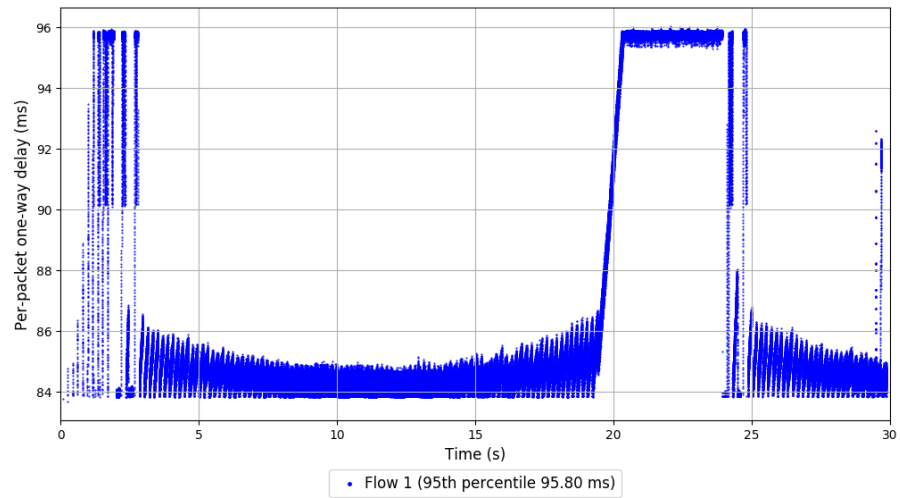
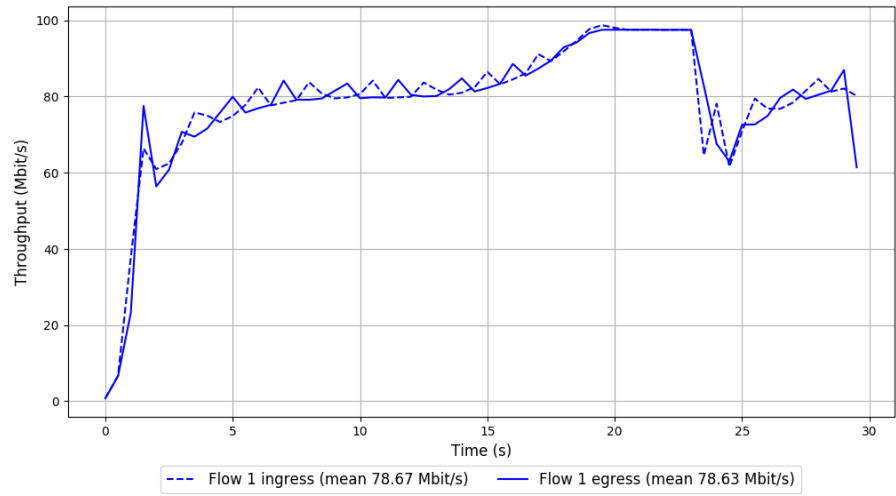
-- Flow 1:

Average throughput: 78.63 Mbit/s

95th percentile per-packet one-way delay: 95.802 ms

Loss rate: 0.64%

Run 1: Report of TCP Cubic — Data Link

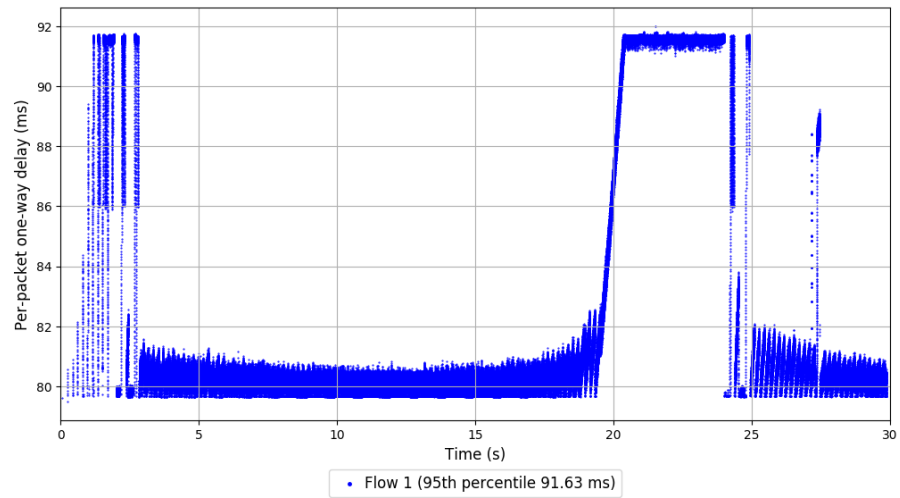
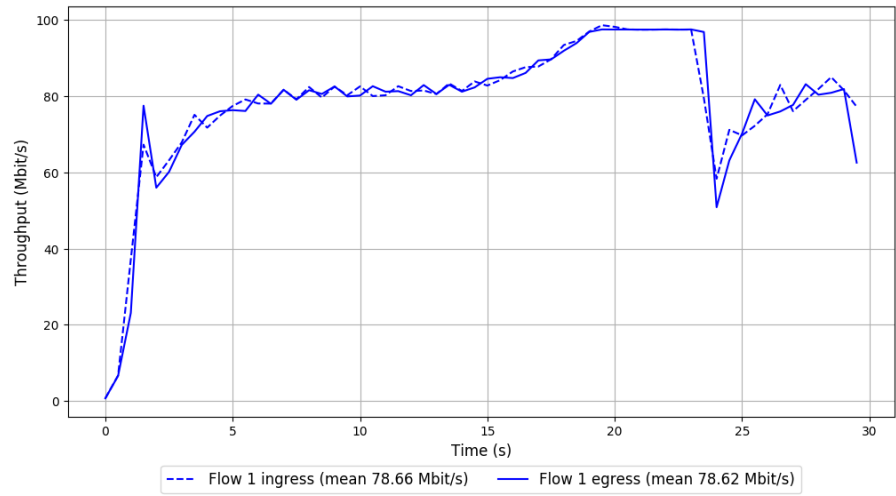


Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 01:56:50
End at: 2018-04-17 01:57:20
Local clock offset: -6.266 ms
Remote clock offset: 11.954 ms

Below is generated by plot.py at 2018-04-17 08:28:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 91.631 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 91.631 ms
Loss rate: 0.64%

Run 2: Report of TCP Cubic — Data Link

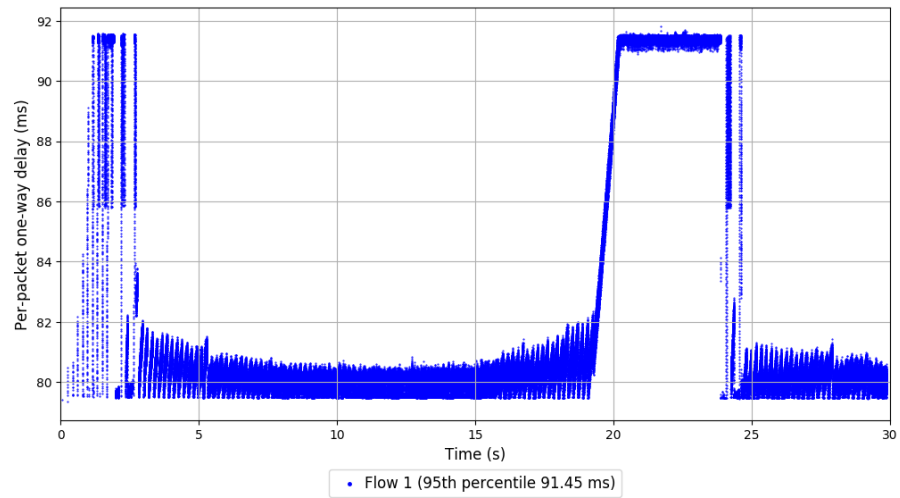
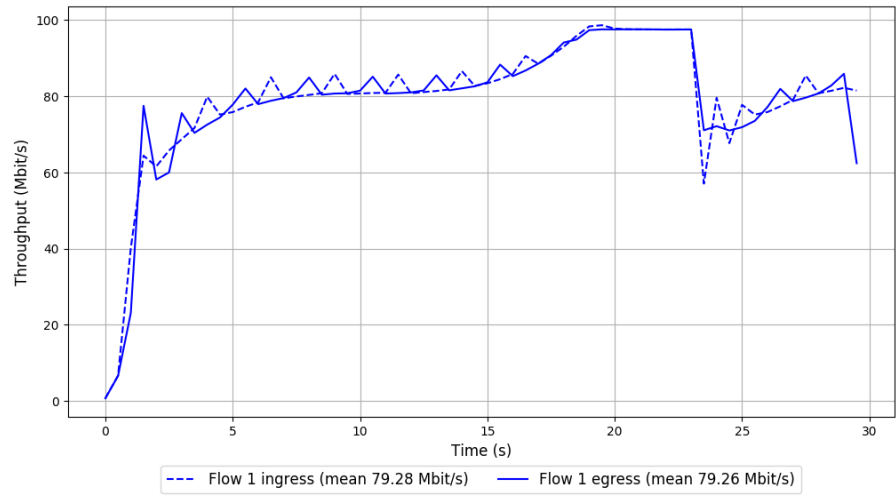


Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 02:17:42
End at: 2018-04-17 02:18:12
Local clock offset: -3.073 ms
Remote clock offset: 11.325 ms

Below is generated by plot.py at 2018-04-17 08:28:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.26 Mbit/s
95th percentile per-packet one-way delay: 91.446 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 79.26 Mbit/s
95th percentile per-packet one-way delay: 91.446 ms
Loss rate: 0.63%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 02:38:38

End at: 2018-04-17 02:39:08

Local clock offset: -3.768 ms

Remote clock offset: 5.7 ms

Below is generated by plot.py at 2018-04-17 08:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.72 Mbit/s

95th percentile per-packet one-way delay: 98.119 ms

Loss rate: 0.66%

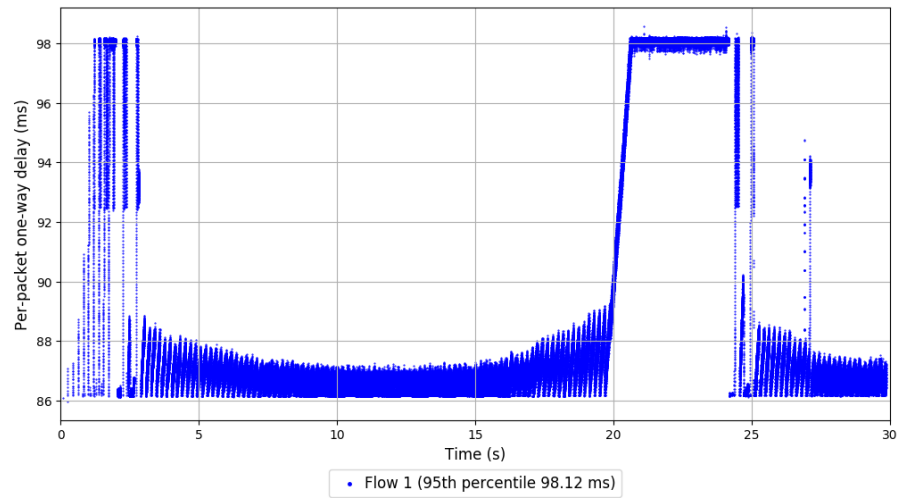
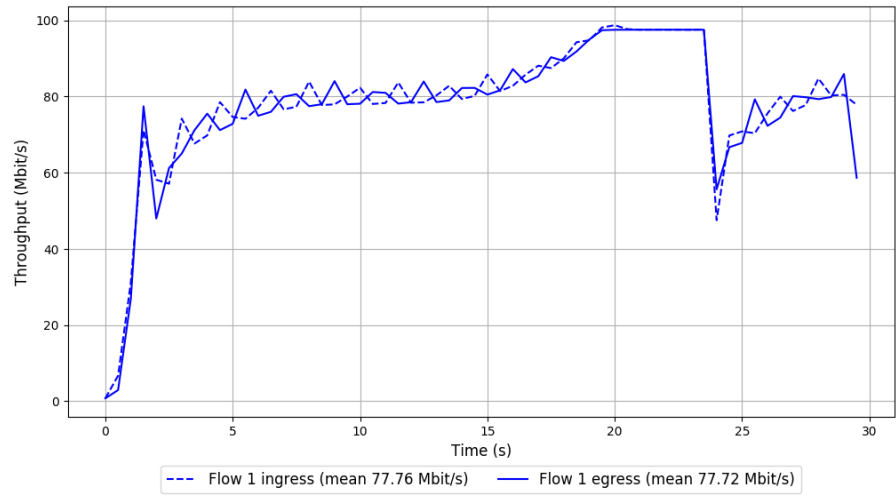
-- Flow 1:

Average throughput: 77.72 Mbit/s

95th percentile per-packet one-way delay: 98.119 ms

Loss rate: 0.66%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 02:59:31

End at: 2018-04-17 03:00:01

Local clock offset: -3.461 ms

Remote clock offset: 6.704 ms

Below is generated by plot.py at 2018-04-17 08:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 95.631 ms

Loss rate: 0.64%

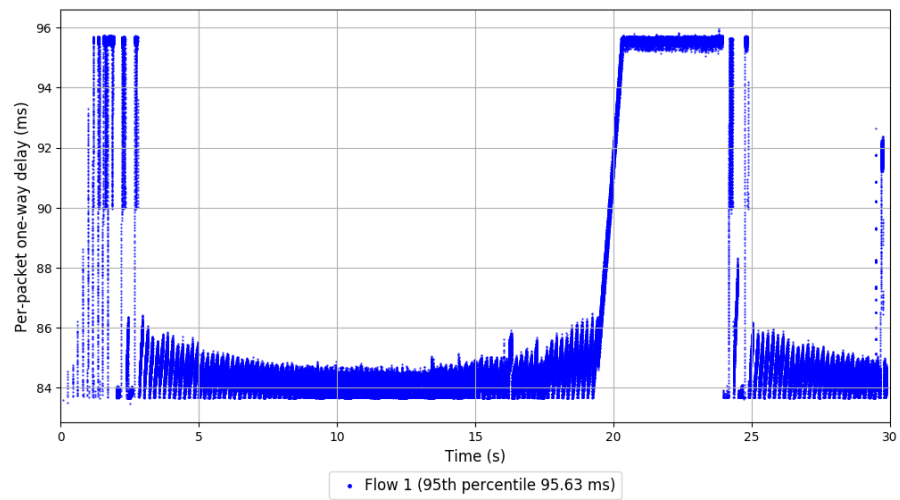
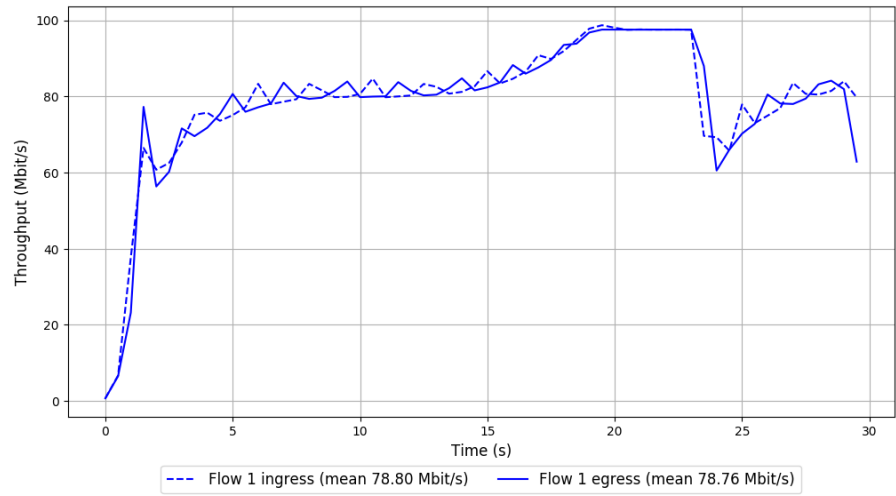
-- Flow 1:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 95.631 ms

Loss rate: 0.64%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 03:20:21

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

Local clock offset: -4.477 ms

Remote clock offset: 4.523 ms

Below is generated by plot.py at 2018-04-17 08:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.59 Mbit/s

95th percentile per-packet one-way delay: 97.259 ms

Loss rate: 0.49%

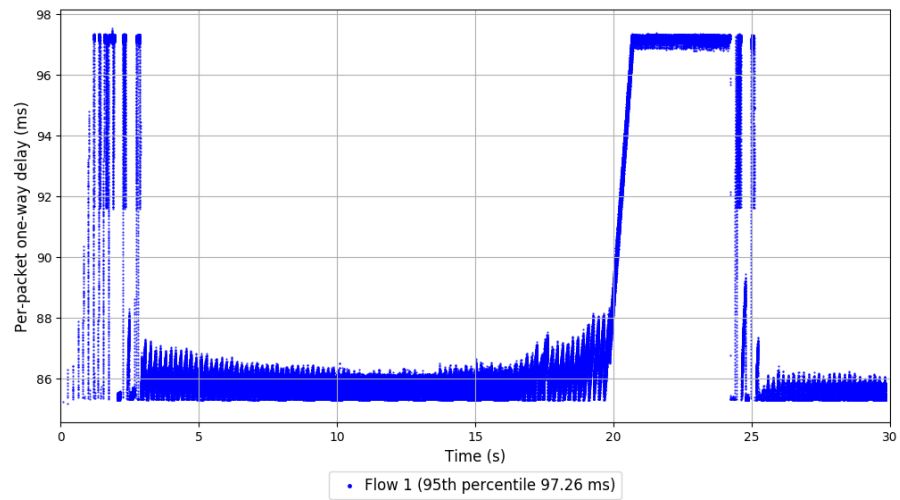
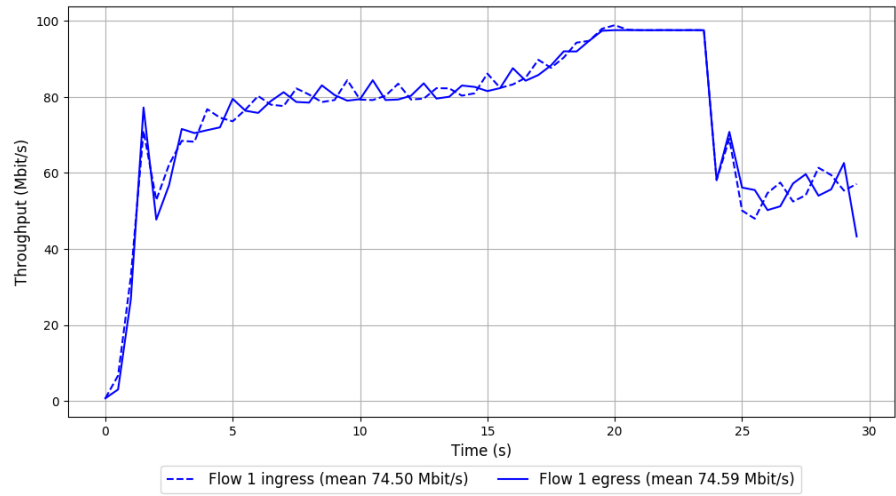
-- Flow 1:

Average throughput: 74.59 Mbit/s

95th percentile per-packet one-way delay: 97.259 ms

Loss rate: 0.49%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 03:41:12

End at: 2018-04-17 03:41:42

Local clock offset: -4.393 ms

Remote clock offset: 4.915 ms

Below is generated by plot.py at 2018-04-17 08:28:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.91 Mbit/s

95th percentile per-packet one-way delay: 86.067 ms

Loss rate: 1.06%

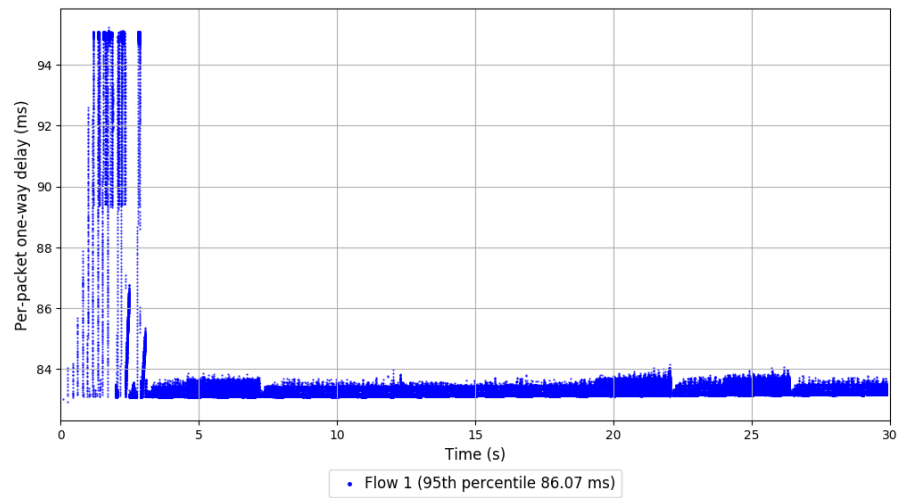
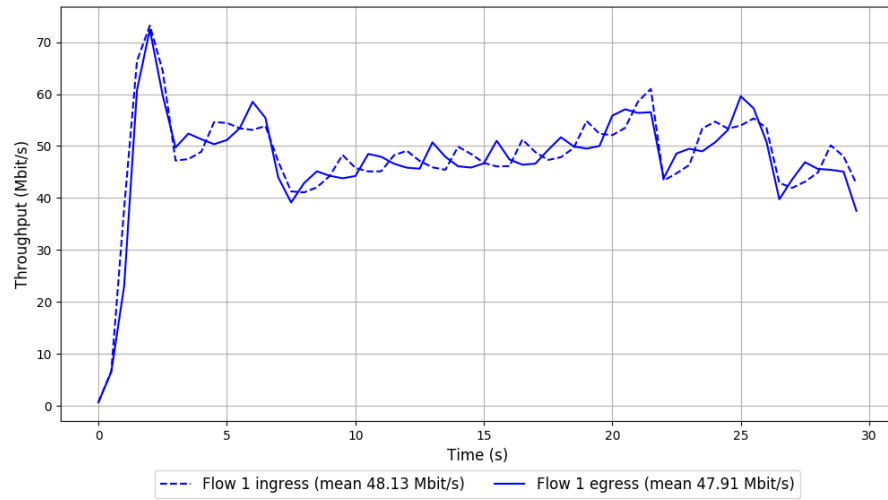
-- Flow 1:

Average throughput: 47.91 Mbit/s

95th percentile per-packet one-way delay: 86.067 ms

Loss rate: 1.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 04:02:06

End at: 2018-04-17 04:02:36

Local clock offset: -6.282 ms

Remote clock offset: 9.519 ms

Below is generated by plot.py at 2018-04-17 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.36 Mbit/s

95th percentile per-packet one-way delay: 92.140 ms

Loss rate: 0.66%

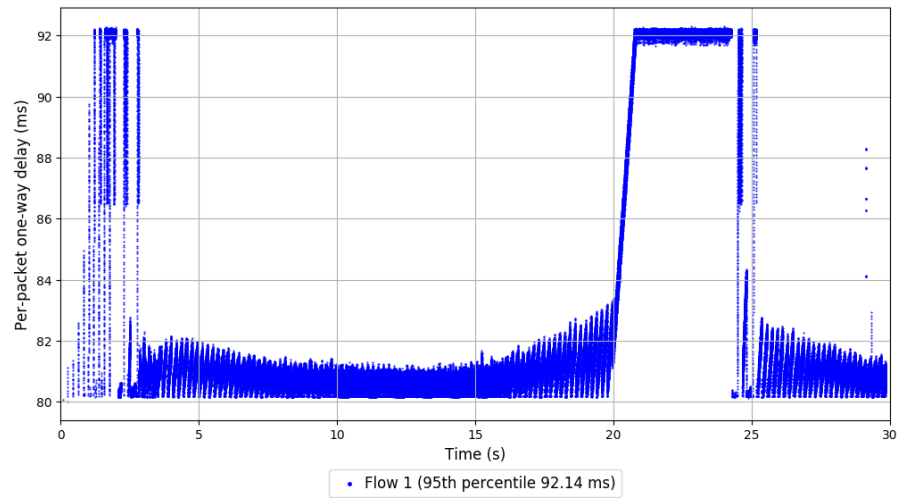
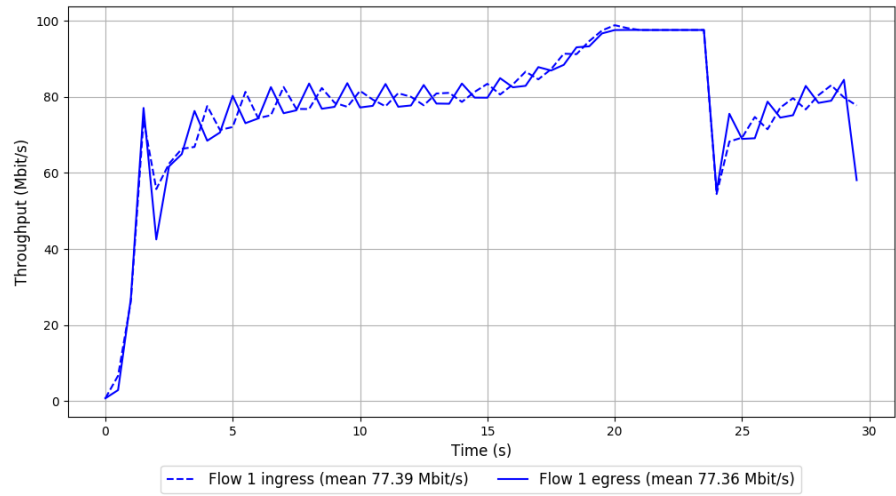
-- Flow 1:

Average throughput: 77.36 Mbit/s

95th percentile per-packet one-way delay: 92.140 ms

Loss rate: 0.66%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 04:23:02

End at: 2018-04-17 04:23:32

Local clock offset: -5.886 ms

Remote clock offset: 5.745 ms

Below is generated by plot.py at 2018-04-17 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 97.177 ms

Loss rate: 0.66%

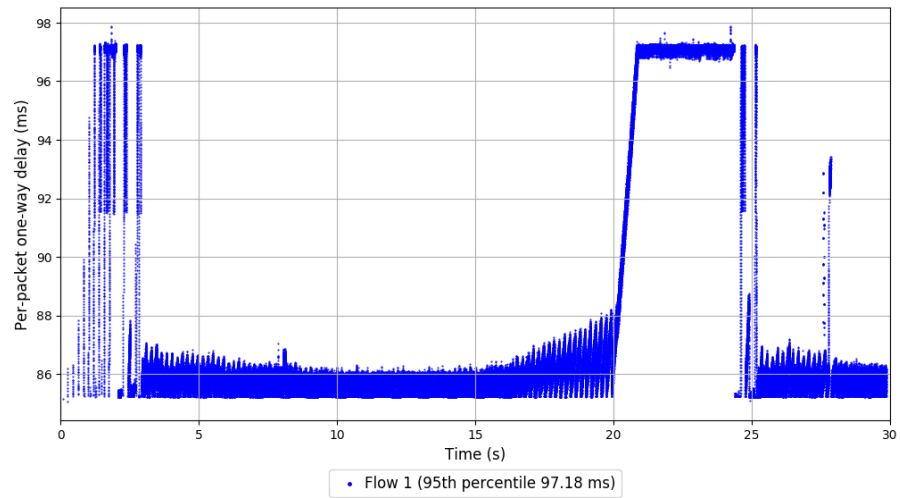
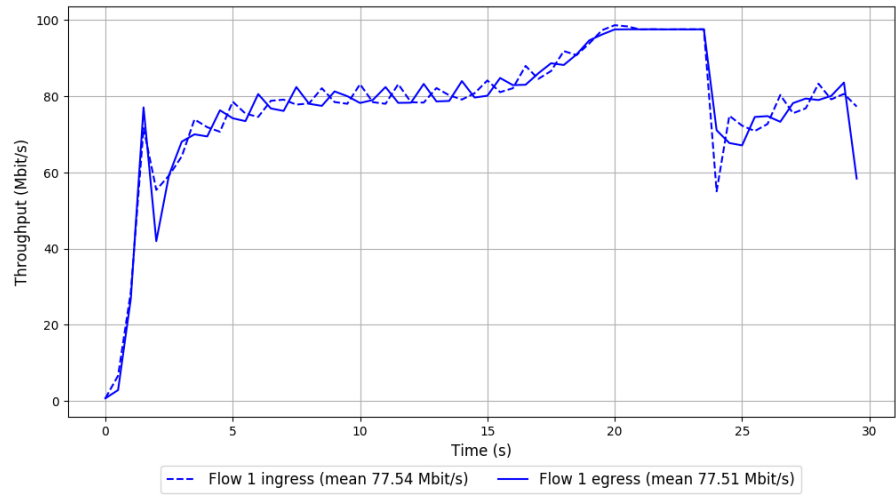
-- Flow 1:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 97.177 ms

Loss rate: 0.66%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

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

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

Local clock offset: -4.351 ms

Remote clock offset: 7.508 ms

Below is generated by plot.py at 2018-04-17 08:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.90 Mbit/s

95th percentile per-packet one-way delay: 95.500 ms

Loss rate: 0.63%

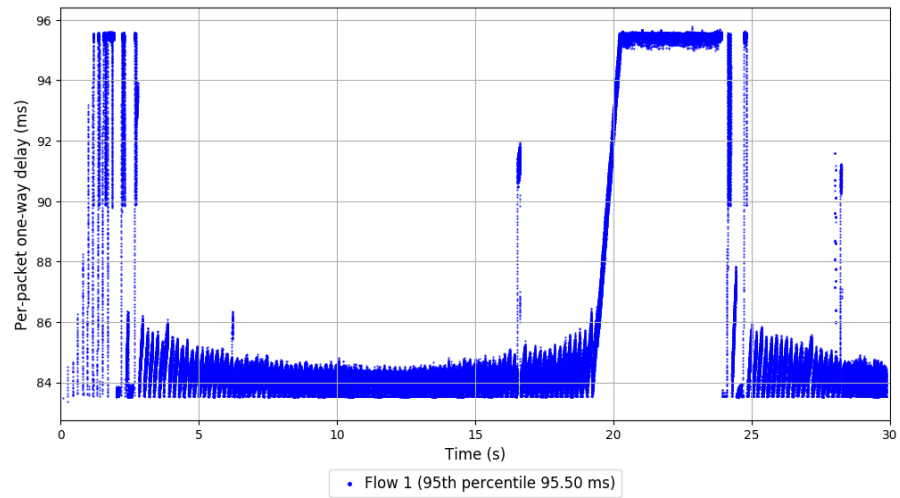
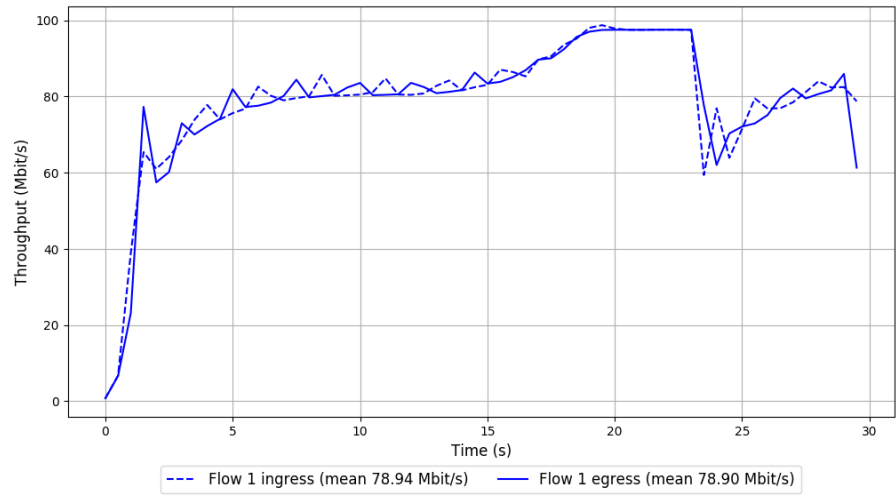
-- Flow 1:

Average throughput: 78.90 Mbit/s

95th percentile per-packet one-way delay: 95.500 ms

Loss rate: 0.63%

Run 10: Report of TCP Cubic — Data Link

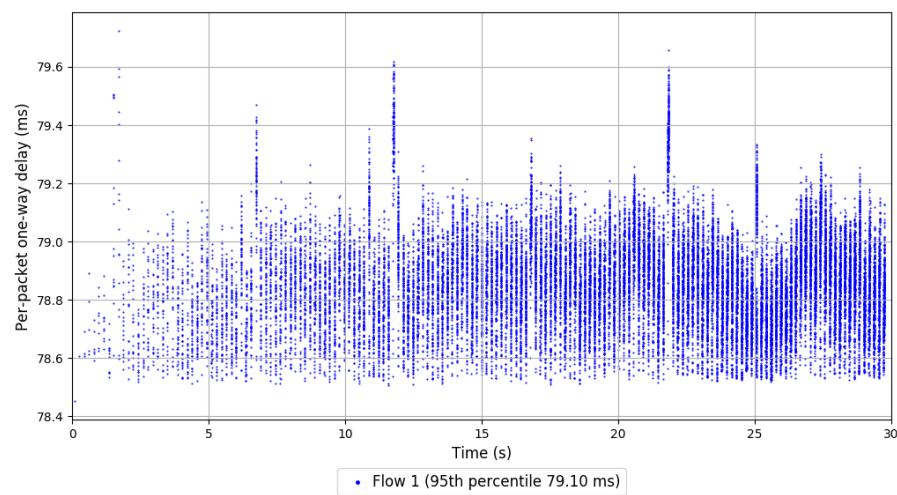
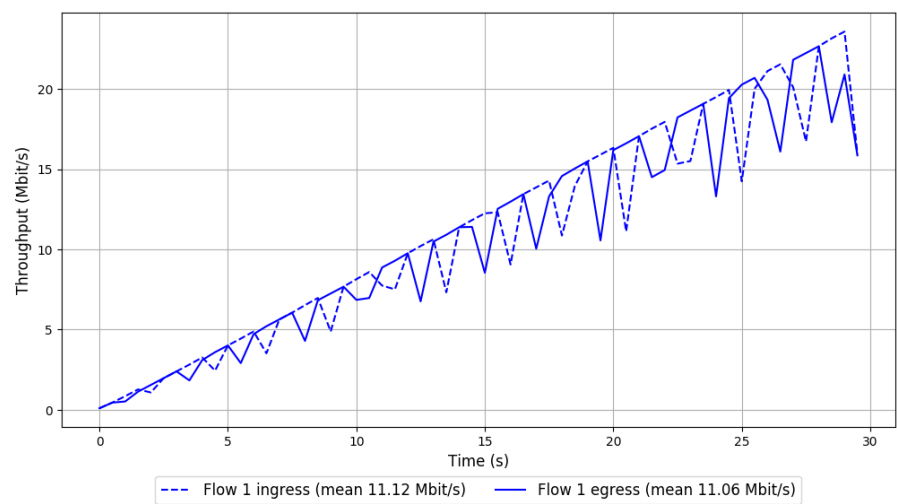


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 01:28:34
End at: 2018-04-17 01:29:04
Local clock offset: -5.621 ms
Remote clock offset: 11.786 ms

# Below is generated by plot.py at 2018-04-17 08:29:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 79.102 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 79.102 ms
Loss rate: 1.20%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-17 01:49:26

End at: 2018-04-17 01:49:56

Local clock offset: -5.41 ms

Remote clock offset: 6.198 ms

Below is generated by plot.py at 2018-04-17 08:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 84.057 ms

Loss rate: 1.24%

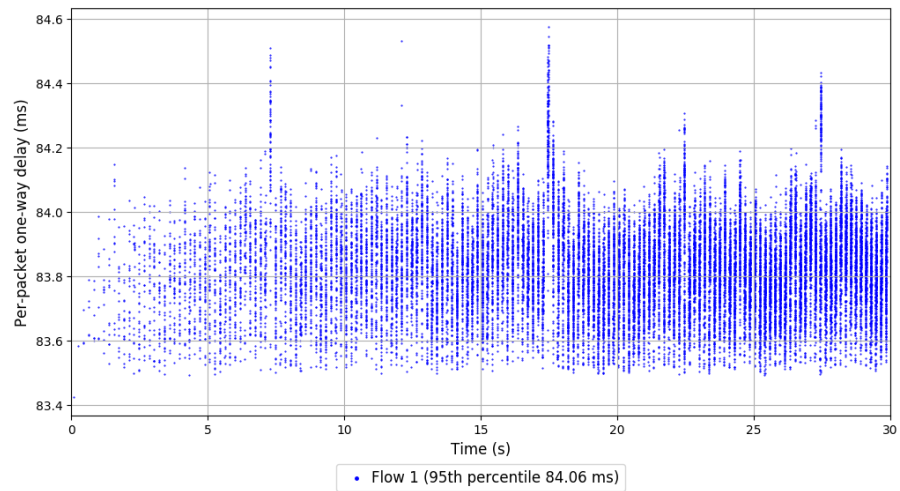
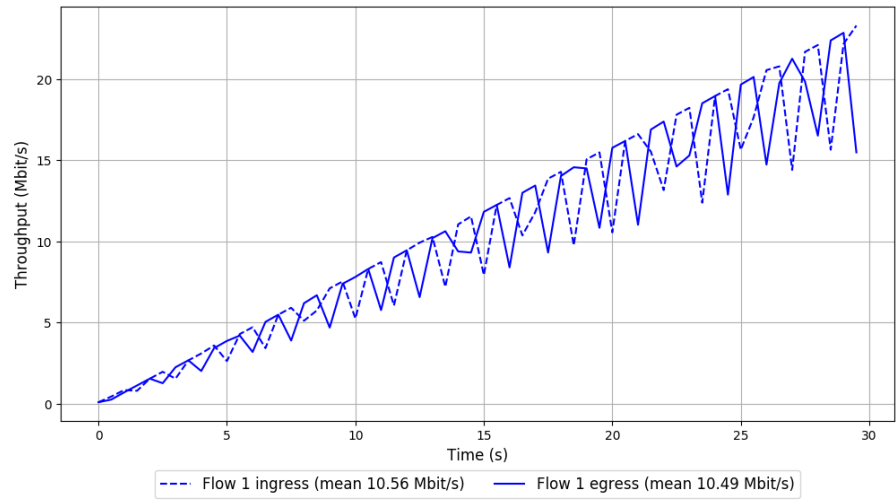
-- Flow 1:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 84.057 ms

Loss rate: 1.24%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-17 02:10:18

End at: 2018-04-17 02:10:48

Local clock offset: -5.039 ms

Remote clock offset: 5.845 ms

Below is generated by plot.py at 2018-04-17 08:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 85.139 ms

Loss rate: 1.21%

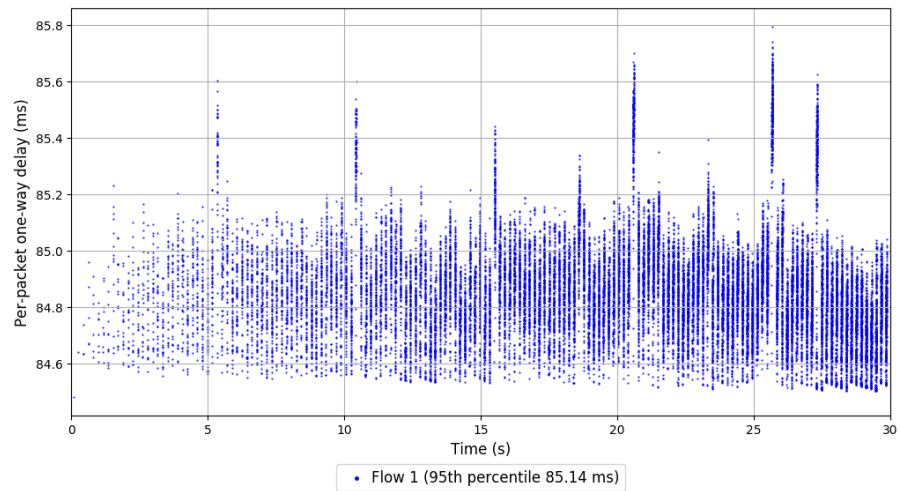
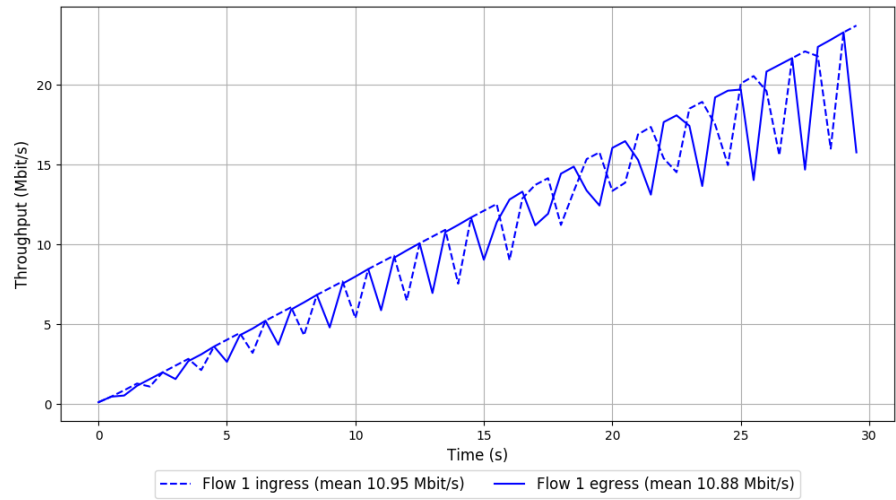
-- Flow 1:

Average throughput: 10.88 Mbit/s

95th percentile per-packet one-way delay: 85.139 ms

Loss rate: 1.21%

Run 3: Report of LEDBAT — Data Link

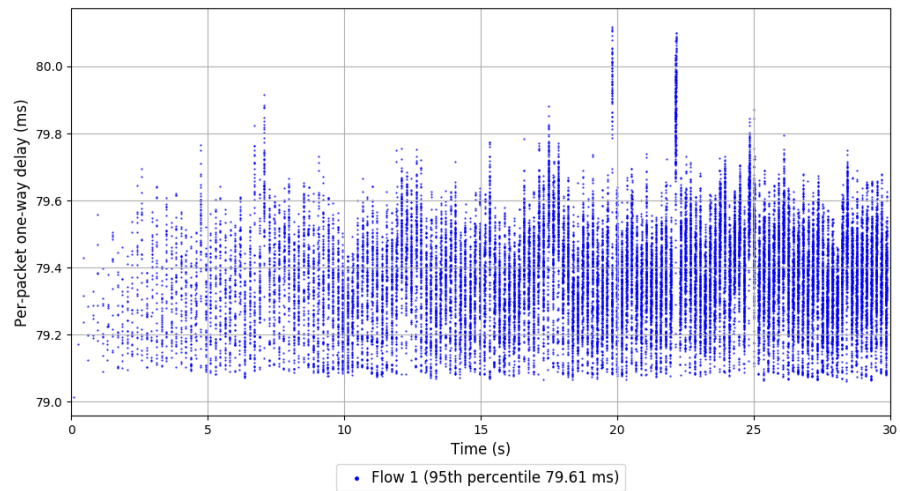
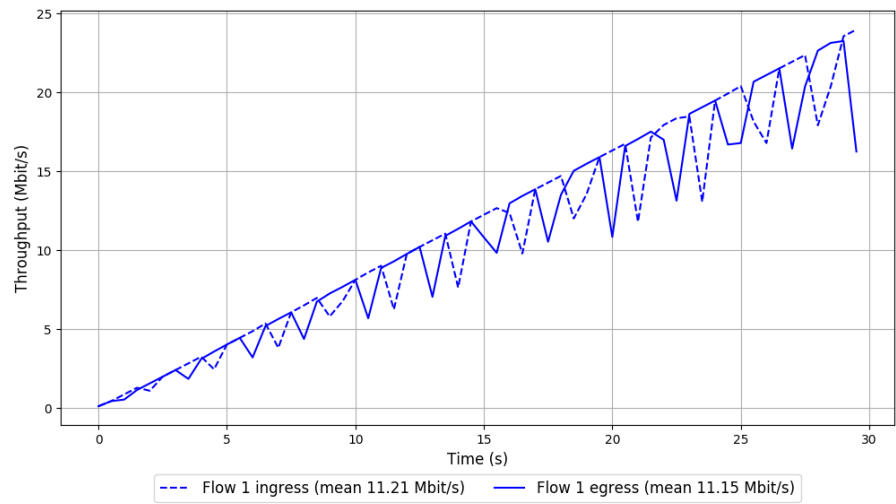


Run 4: Statistics of LEDBAT

Start at: 2018-04-17 02:31:14
End at: 2018-04-17 02:31:44
Local clock offset: -3.294 ms
Remote clock offset: 12.102 ms

Below is generated by plot.py at 2018-04-17 08:29:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 79.612 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 79.612 ms
Loss rate: 1.20%

Run 4: Report of LEDBAT — Data Link

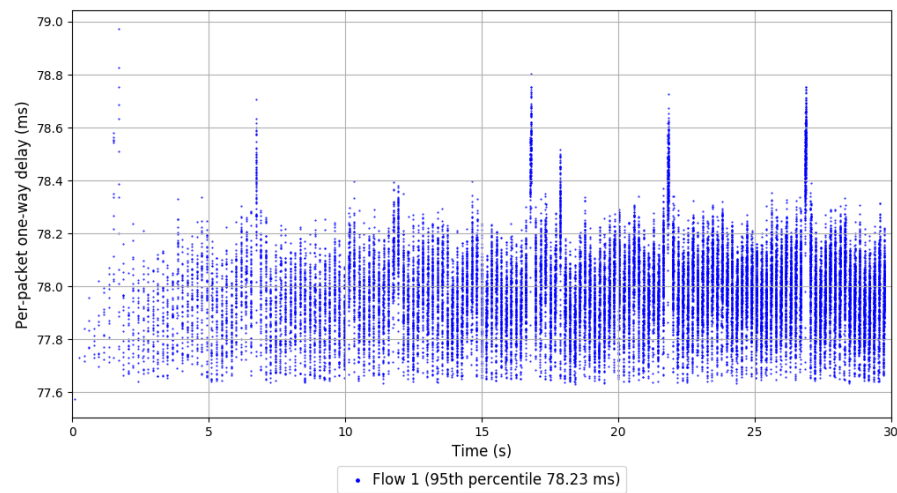
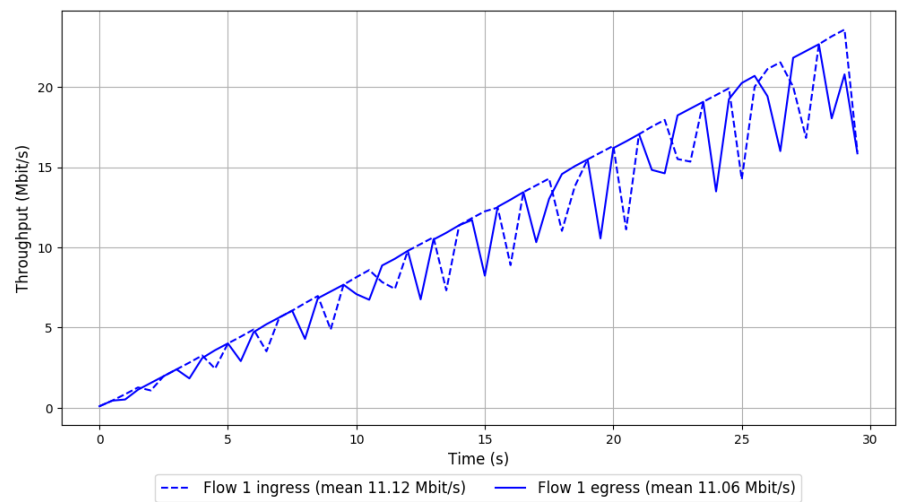


Run 5: Statistics of LEDBAT

Start at: 2018-04-17 02:52:07
End at: 2018-04-17 02:52:38
Local clock offset: -4.995 ms
Remote clock offset: 11.418 ms

Below is generated by plot.py at 2018-04-17 08:29:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 78.231 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 78.231 ms
Loss rate: 1.20%

Run 5: Report of LEDBAT — Data Link

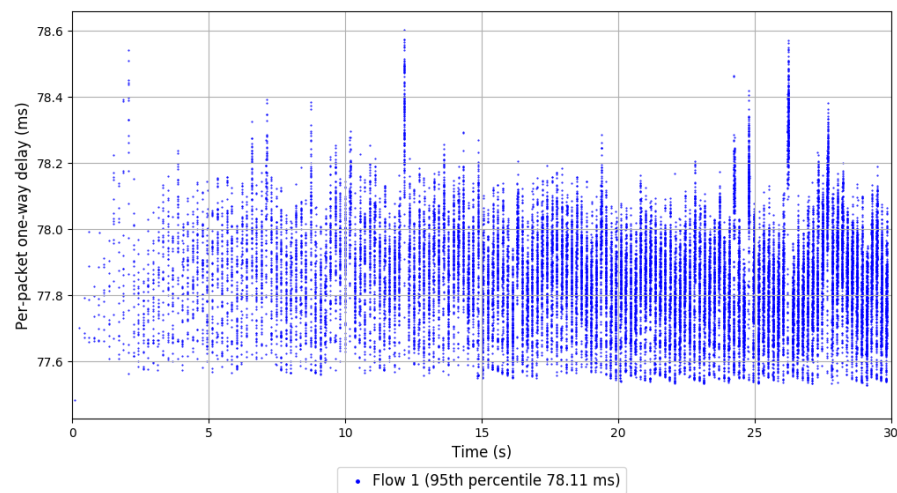
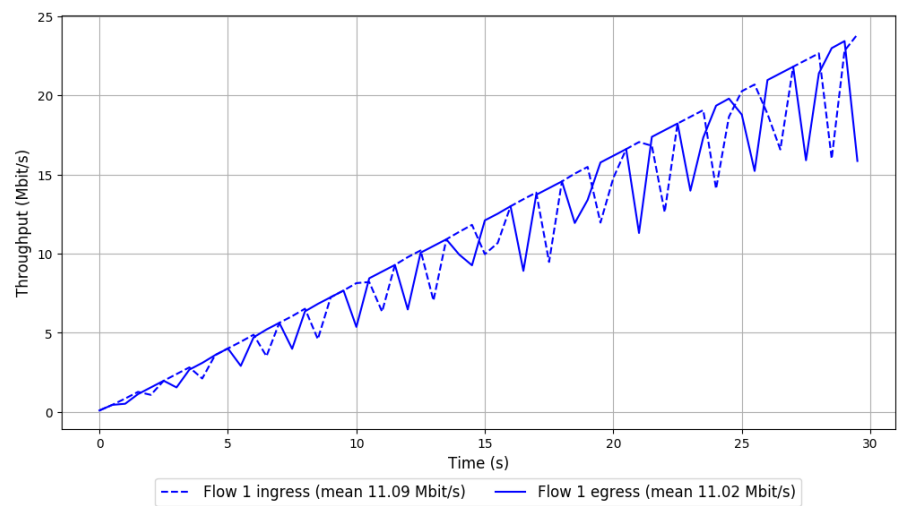


Run 6: Statistics of LEDBAT

Start at: 2018-04-17 03:12:58
End at: 2018-04-17 03:13:28
Local clock offset: -4.298 ms
Remote clock offset: 11.485 ms

Below is generated by plot.py at 2018-04-17 08:29:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 78.113 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 78.113 ms
Loss rate: 1.20%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-17 03:33:48

End at: 2018-04-17 03:34:18

Local clock offset: -4.371 ms

Remote clock offset: 9.753 ms

Below is generated by plot.py at 2018-04-17 08:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 80.599 ms

Loss rate: 1.20%

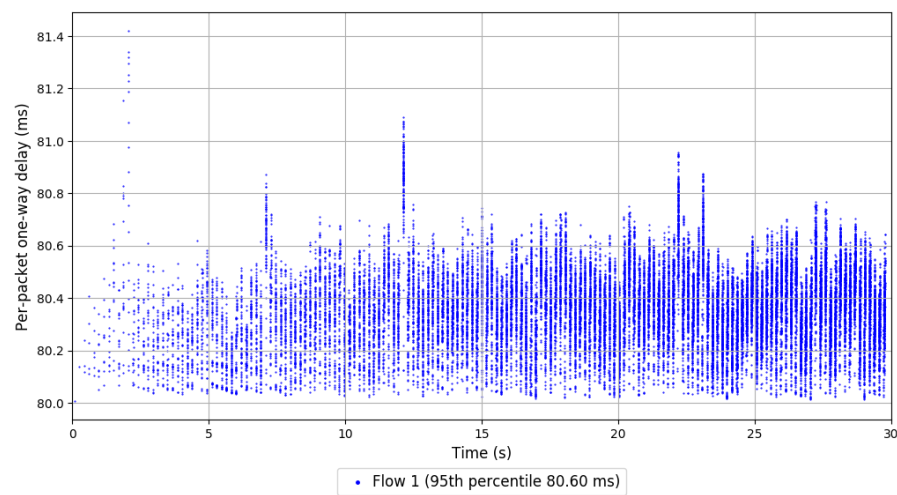
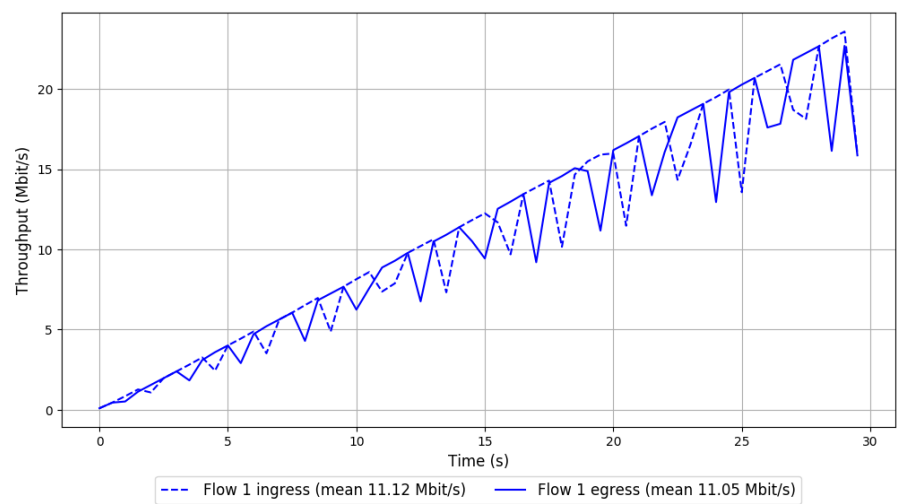
-- Flow 1:

Average throughput: 11.05 Mbit/s

95th percentile per-packet one-way delay: 80.599 ms

Loss rate: 1.20%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-17 03:54:42

End at: 2018-04-17 03:55:12

Local clock offset: -4.536 ms

Remote clock offset: 5.446 ms

Below is generated by plot.py at 2018-04-17 08:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 84.932 ms

Loss rate: 1.21%

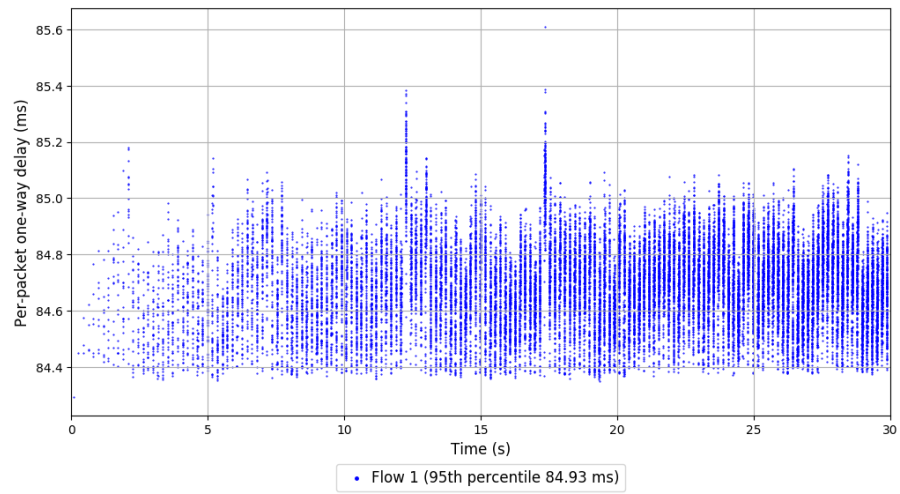
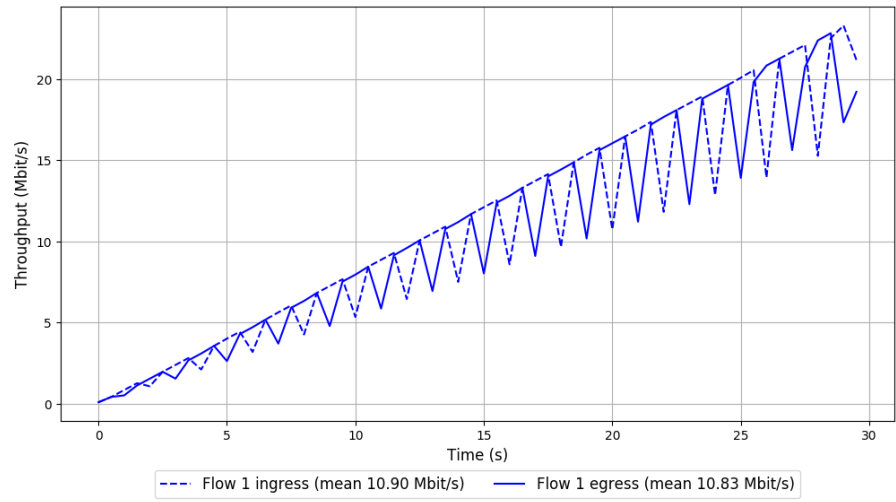
-- Flow 1:

Average throughput: 10.83 Mbit/s

95th percentile per-packet one-way delay: 84.932 ms

Loss rate: 1.21%

Run 8: Report of LEDBAT — Data Link

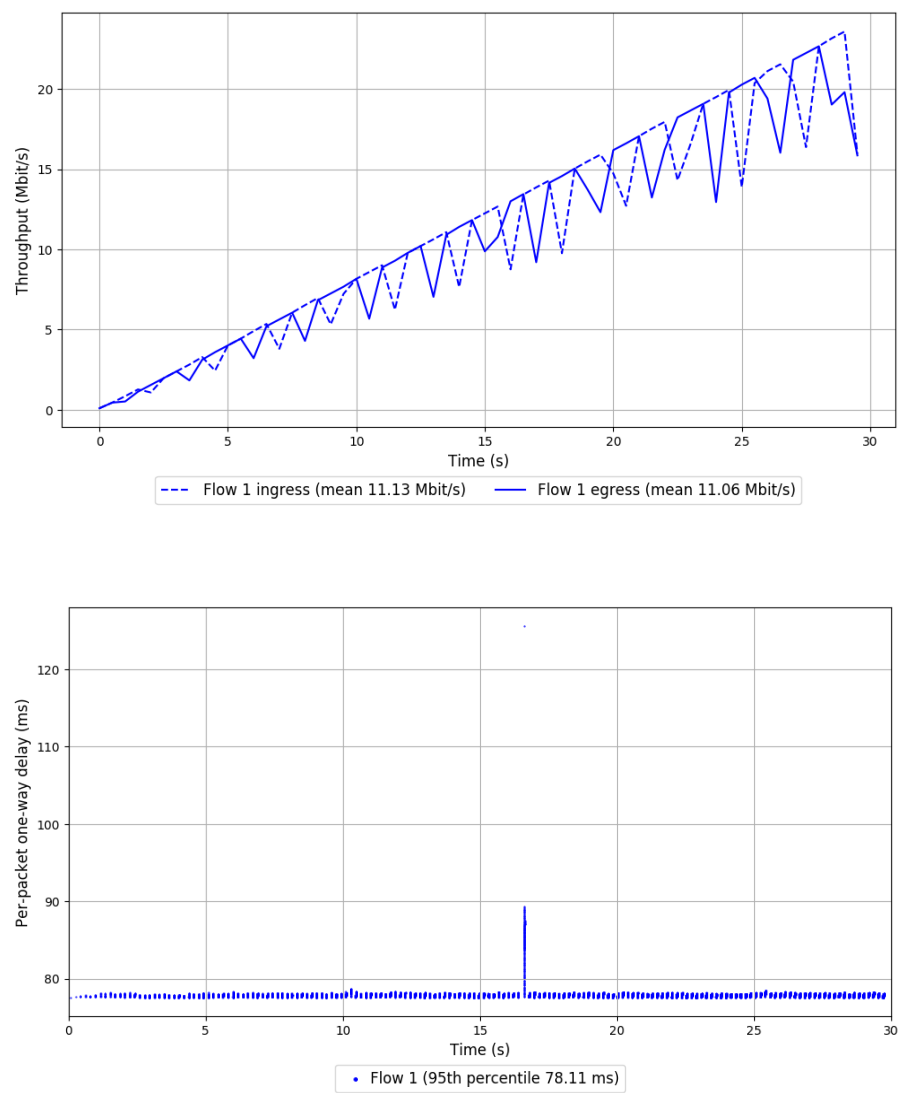


Run 9: Statistics of LEDBAT

Start at: 2018-04-17 04:15:36
End at: 2018-04-17 04:16:06
Local clock offset: -6.51 ms
Remote clock offset: 10.648 ms

Below is generated by plot.py at 2018-04-17 08:29:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 78.107 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 78.107 ms
Loss rate: 1.20%

Run 9: Report of LEDBAT — Data Link

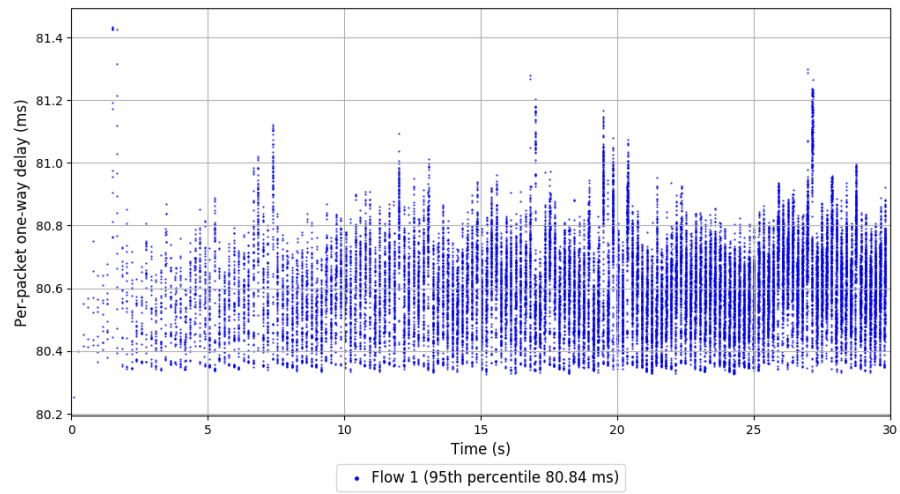
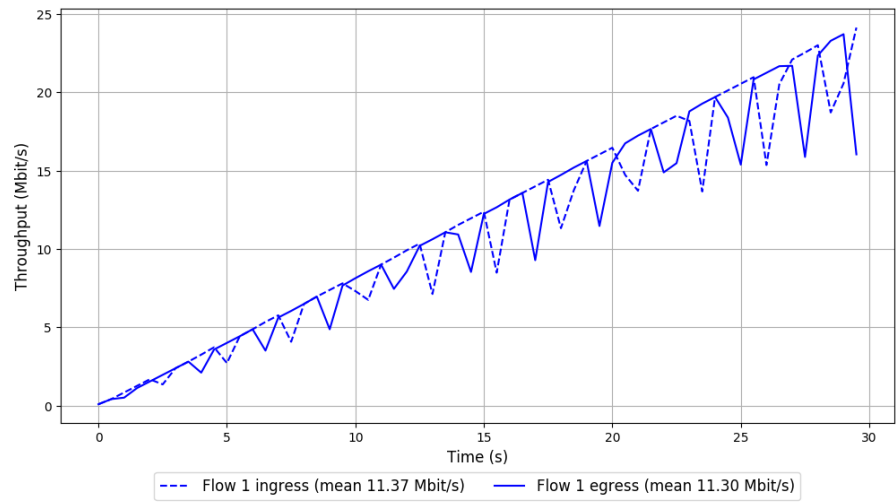


Run 10: Statistics of LEDBAT

Start at: 2018-04-17 04:36:34
End at: 2018-04-17 04:37:04
Local clock offset: -3.713 ms
Remote clock offset: 12.237 ms

Below is generated by plot.py at 2018-04-17 08:29:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 80.839 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 80.839 ms
Loss rate: 1.19%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 01:37:12

End at: 2018-04-17 01:37:42

Local clock offset: -6.181 ms

Remote clock offset: 10.636 ms

Below is generated by plot.py at 2018-04-17 08:29:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 86.854 ms

Loss rate: 0.69%

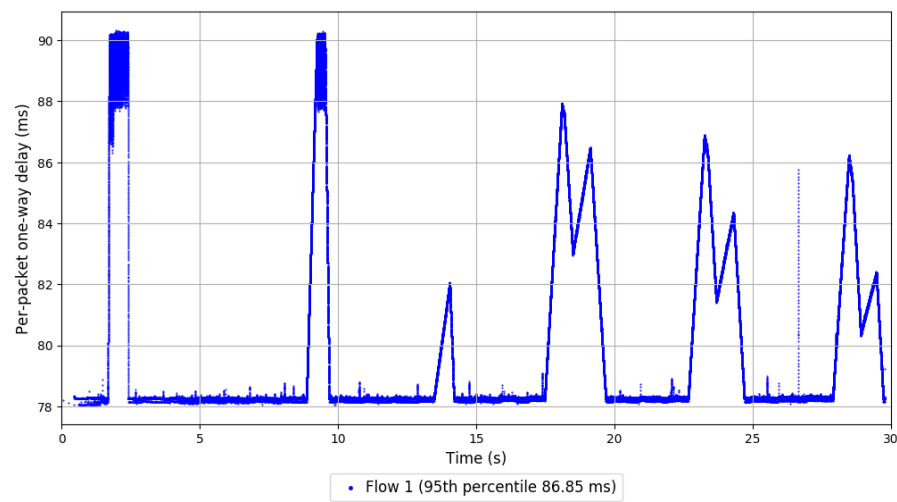
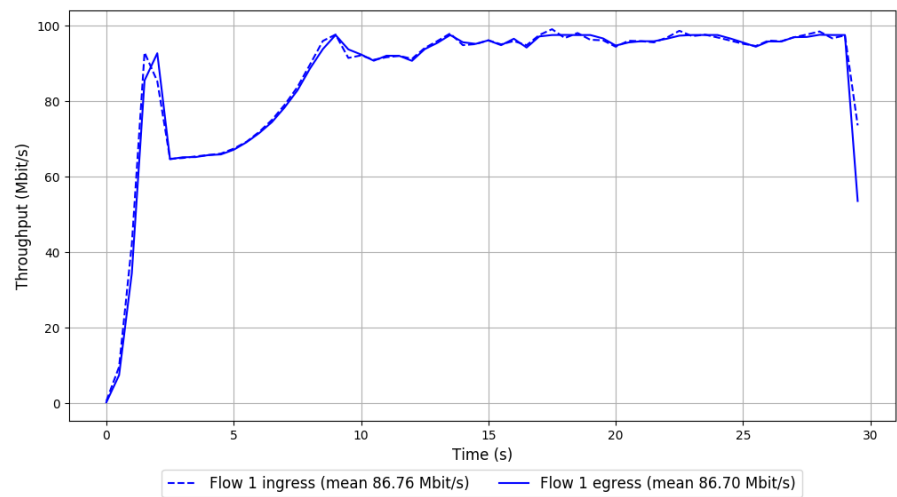
-- Flow 1:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 86.854 ms

Loss rate: 0.69%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 01:58:04

End at: 2018-04-17 01:58:34

Local clock offset: -6.291 ms

Remote clock offset: 11.971 ms

Below is generated by plot.py at 2018-04-17 08:29:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 90.213 ms

Loss rate: 0.70%

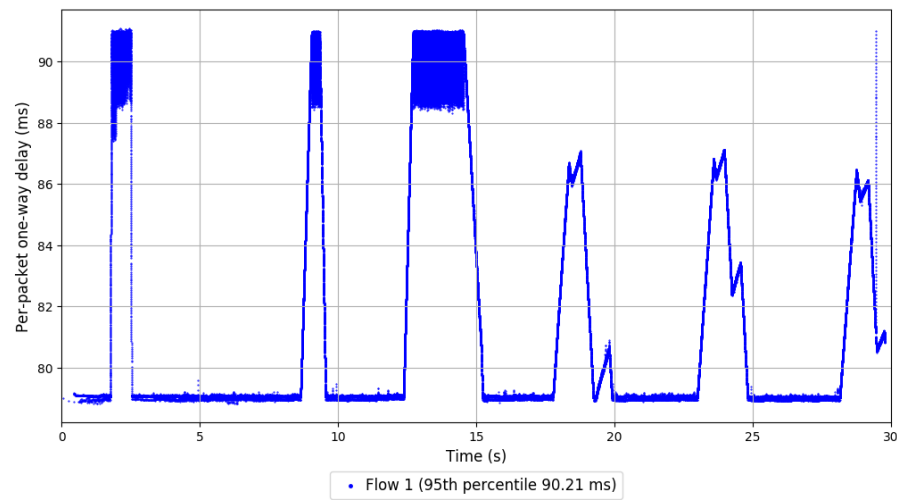
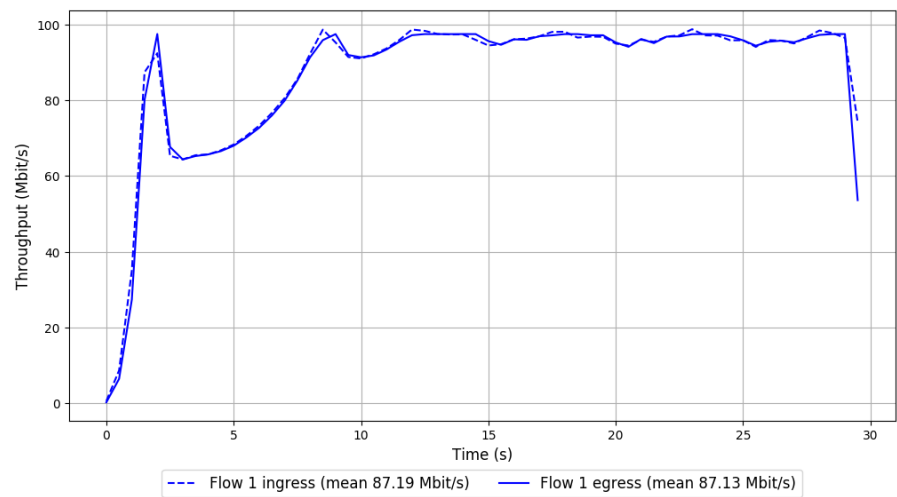
-- Flow 1:

Average throughput: 87.13 Mbit/s

95th percentile per-packet one-way delay: 90.213 ms

Loss rate: 0.70%

Run 2: Report of PCC-Allegro — Data Link

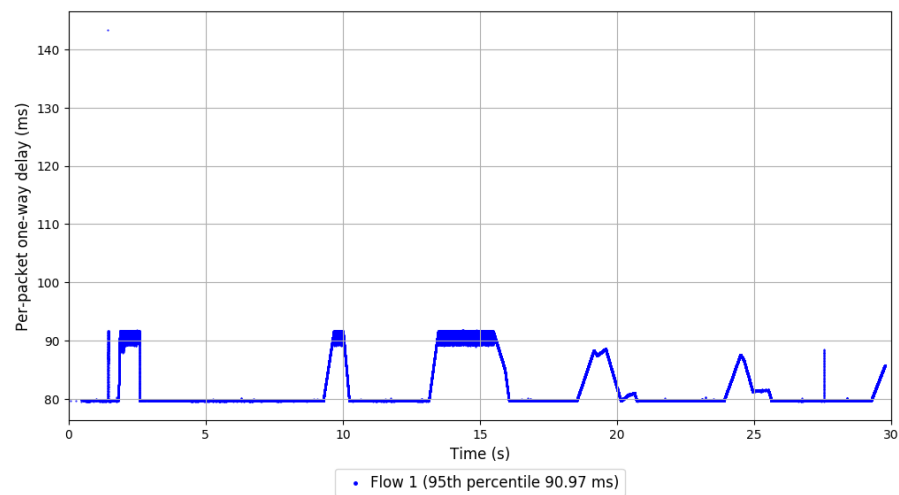
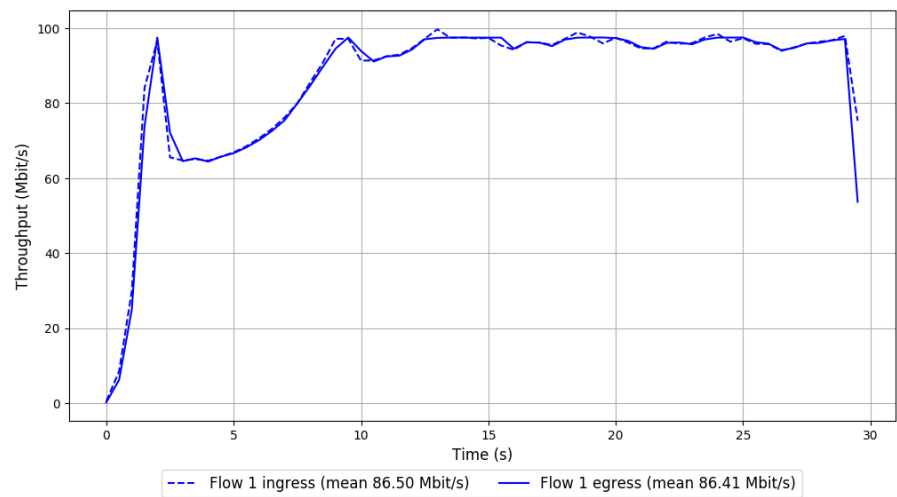


Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 02:18:56
End at: 2018-04-17 02:19:26
Local clock offset: -3.005 ms
Remote clock offset: 12.164 ms

Below is generated by plot.py at 2018-04-17 08:29:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 90.968 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 90.968 ms
Loss rate: 0.73%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 02:39:52

End at: 2018-04-17 02:40:22

Local clock offset: -3.835 ms

Remote clock offset: 11.451 ms

Below is generated by plot.py at 2018-04-17 08:29:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 91.286 ms

Loss rate: 0.69%

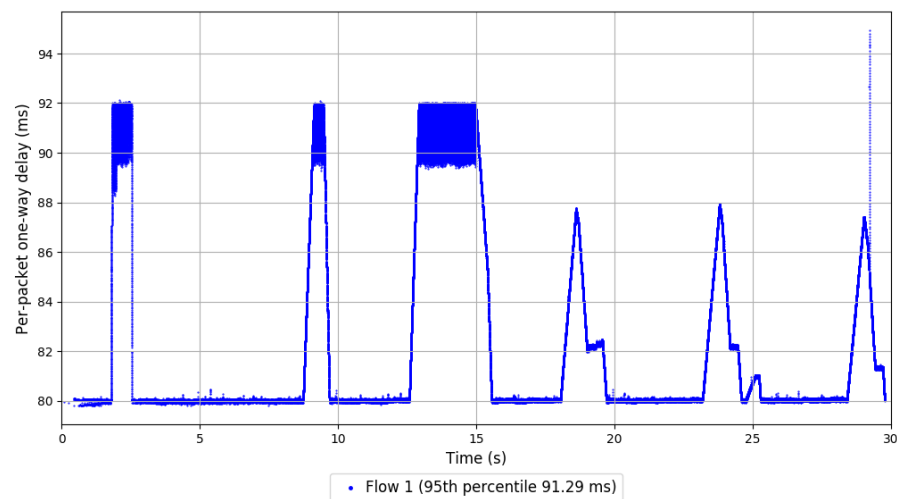
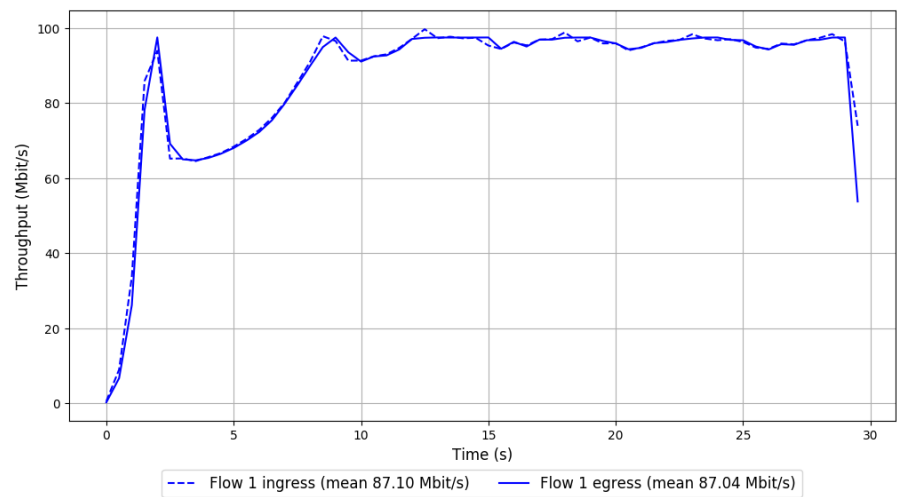
-- Flow 1:

Average throughput: 87.04 Mbit/s

95th percentile per-packet one-way delay: 91.286 ms

Loss rate: 0.69%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 03:00:45

End at: 2018-04-17 03:01:15

Local clock offset: -5.078 ms

Remote clock offset: 6.677 ms

Below is generated by plot.py at 2018-04-17 08:29:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 94.867 ms

Loss rate: 0.73%

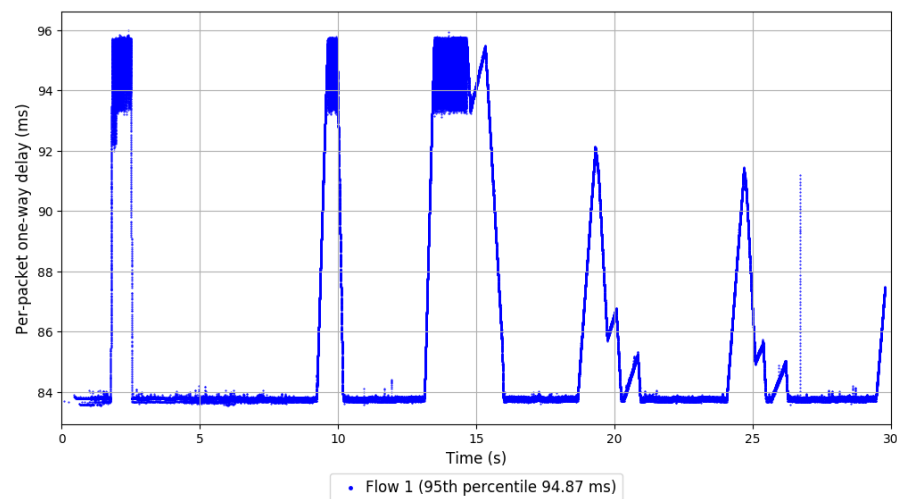
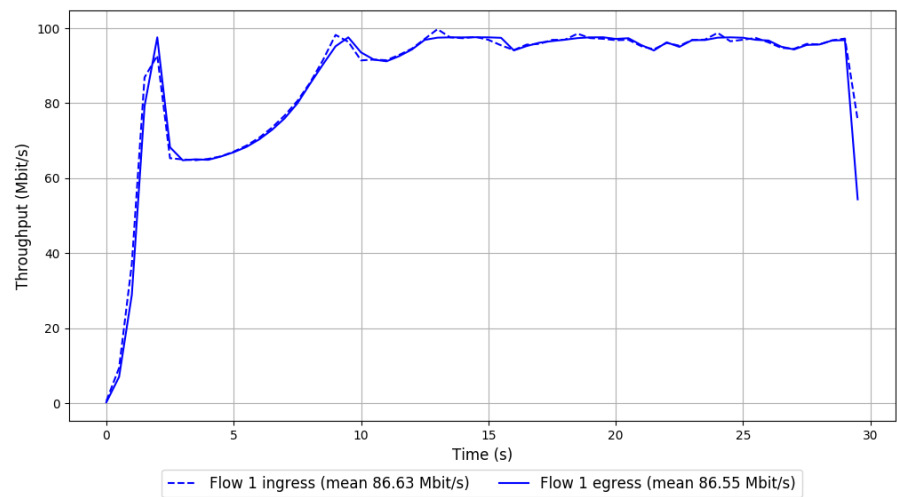
-- Flow 1:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 94.867 ms

Loss rate: 0.73%

Run 5: Report of PCC-Allegro — Data Link

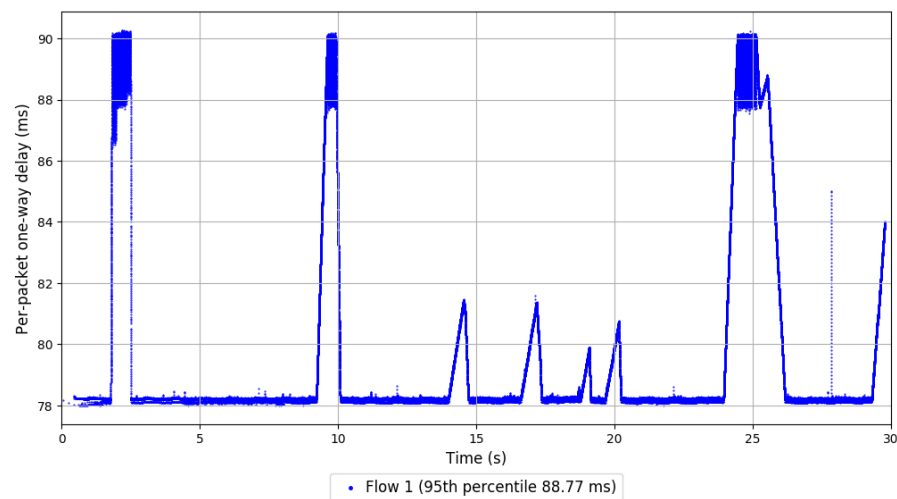
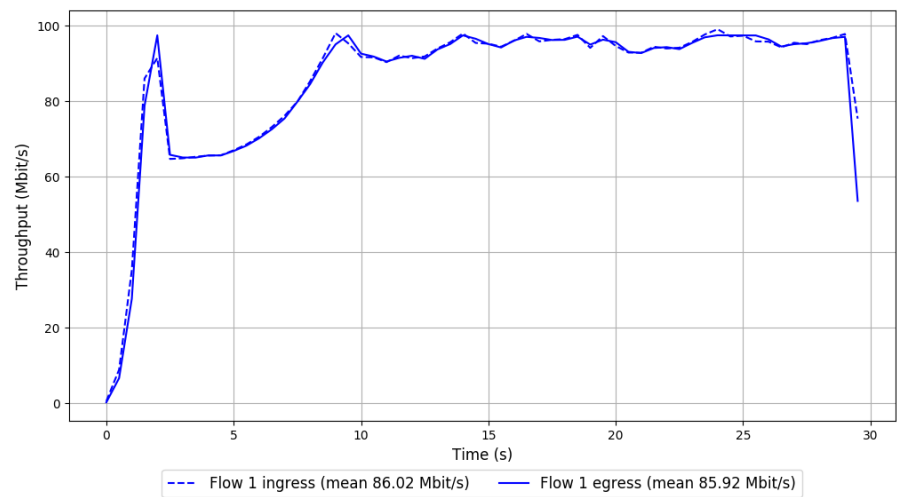


Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 03:21:35
End at: 2018-04-17 03:22:05
Local clock offset: -4.472 ms
Remote clock offset: 10.111 ms

Below is generated by plot.py at 2018-04-17 08:30:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 85.92 Mbit/s
95th percentile per-packet one-way delay: 88.773 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 85.92 Mbit/s
95th percentile per-packet one-way delay: 88.773 ms
Loss rate: 0.73%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 03:42:25

End at: 2018-04-17 03:42:55

Local clock offset: -4.543 ms

Remote clock offset: 4.928 ms

Below is generated by plot.py at 2018-04-17 08:30:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 84.971 ms

Loss rate: 1.73%

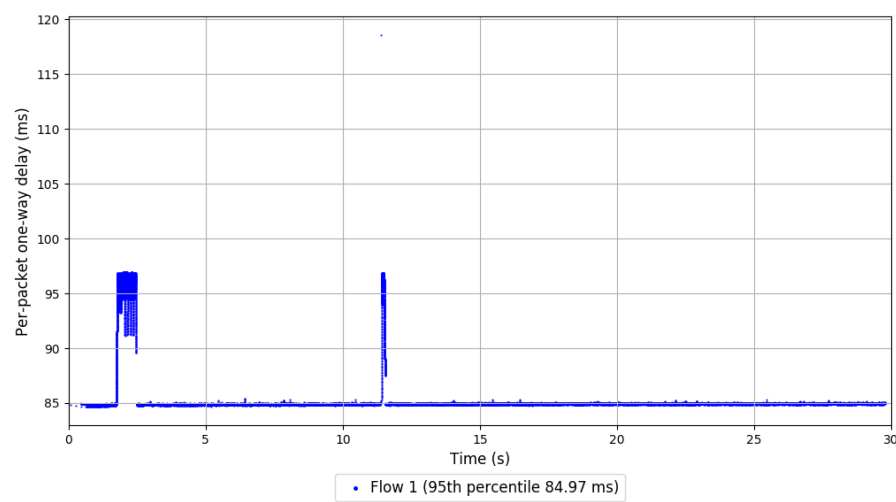
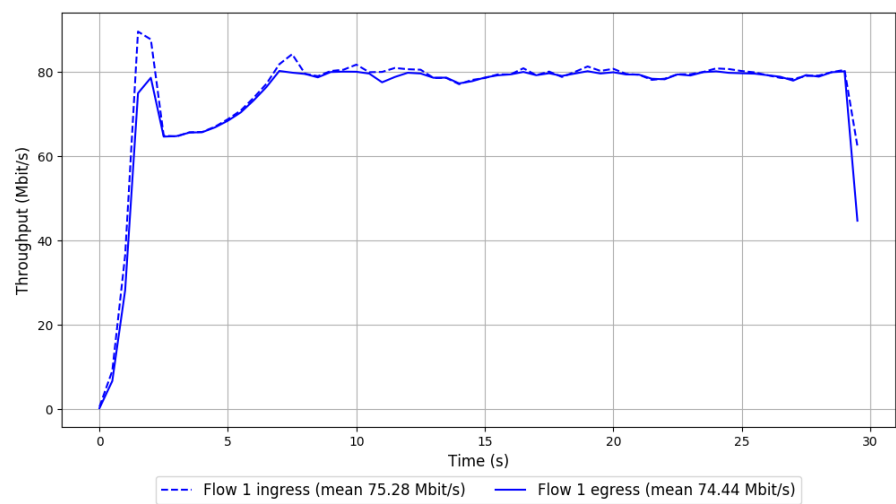
-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 84.971 ms

Loss rate: 1.73%

Run 7: Report of PCC-Allegro — Data Link

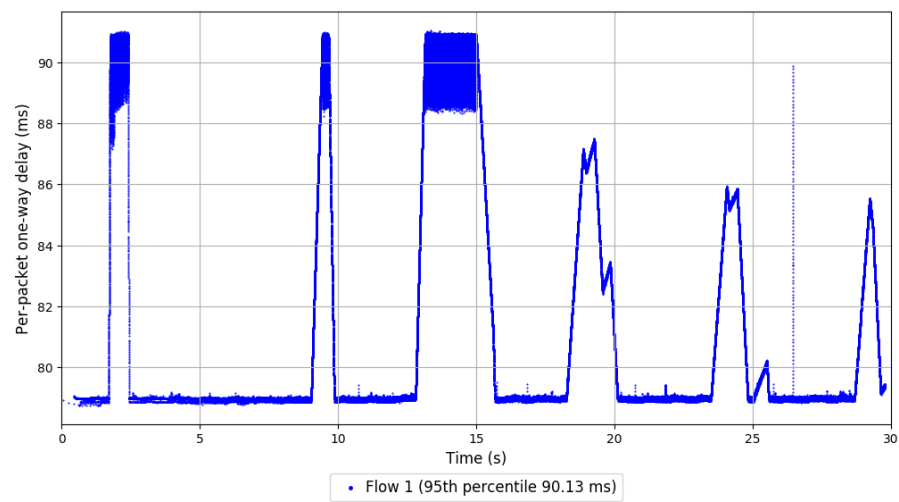
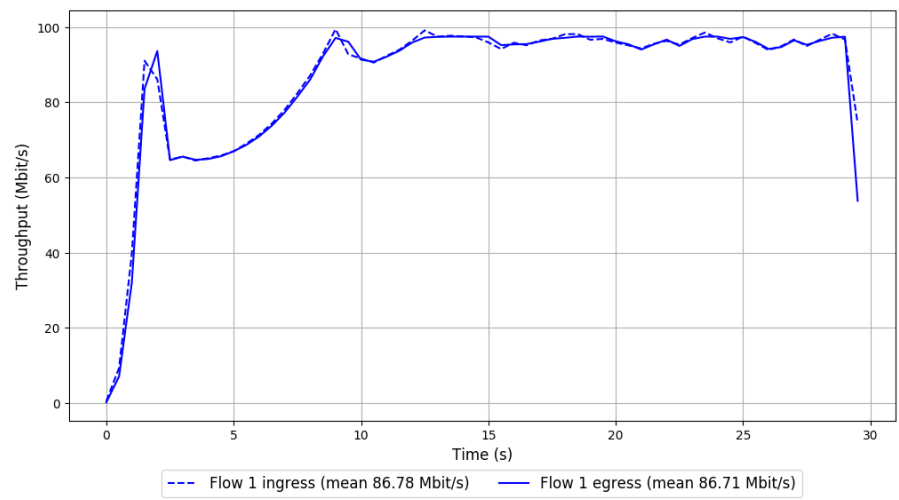


Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 04:03:20
End at: 2018-04-17 04:03:50
Local clock offset: -4.796 ms
Remote clock offset: 10.351 ms

Below is generated by plot.py at 2018-04-17 08:30:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 90.127 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 86.71 Mbit/s
95th percentile per-packet one-way delay: 90.127 ms
Loss rate: 0.70%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

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

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

Local clock offset: -4.949 ms

Remote clock offset: 6.762 ms

Below is generated by plot.py at 2018-04-17 08:31:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 95.628 ms

Loss rate: 0.72%

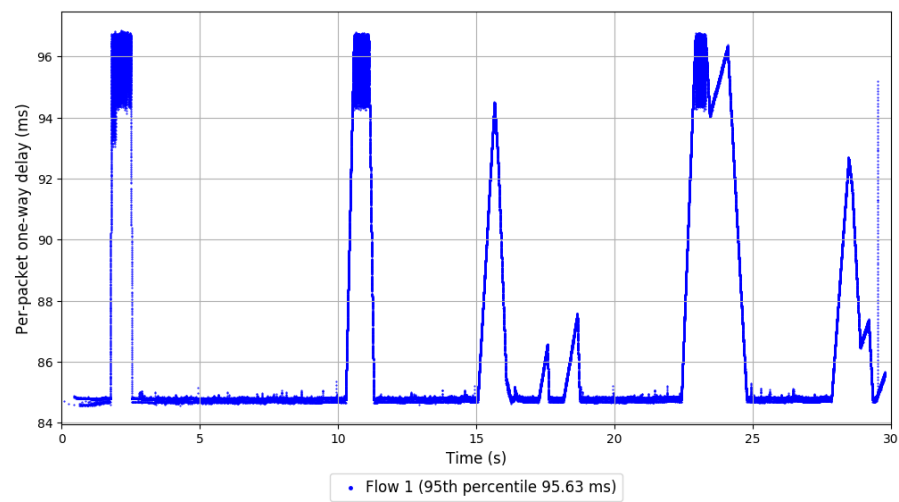
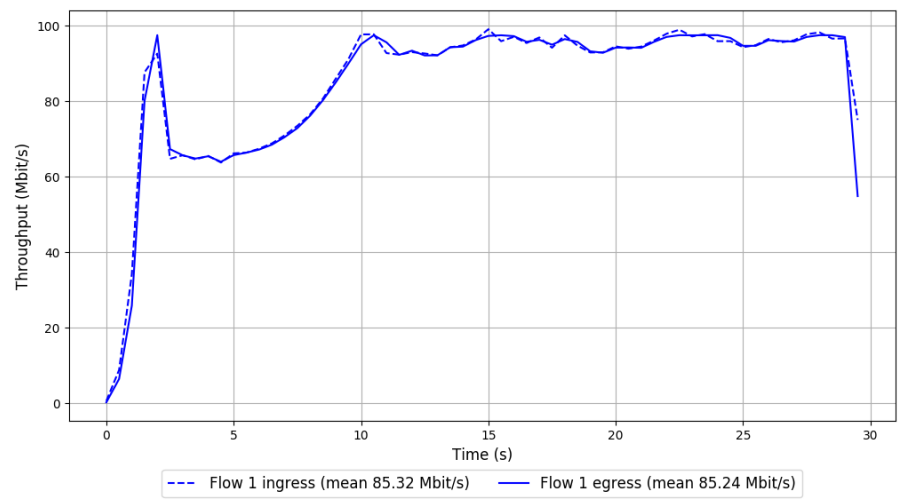
-- Flow 1:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 95.628 ms

Loss rate: 0.72%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 04:45:13

End at: 2018-04-17 04:45:43

Local clock offset: -4.286 ms

Remote clock offset: 6.835 ms

Below is generated by plot.py at 2018-04-17 08:31:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 95.295 ms

Loss rate: 0.70%

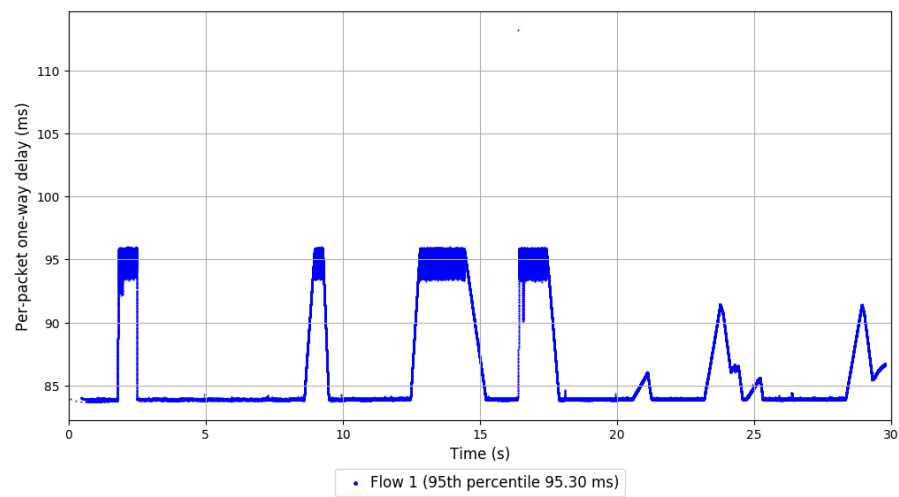
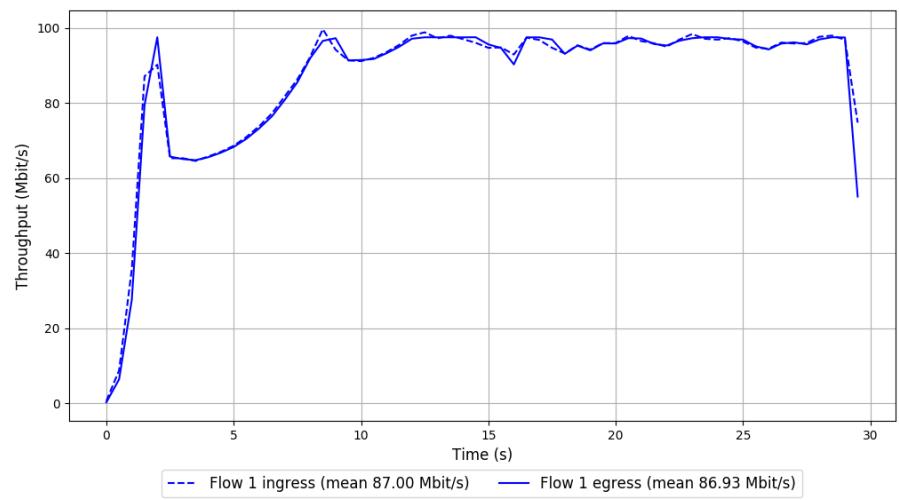
-- Flow 1:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 95.295 ms

Loss rate: 0.70%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 01:43:23

End at: 2018-04-17 01:43:53

Local clock offset: -4.682 ms

Remote clock offset: 6.033 ms

Below is generated by plot.py at 2018-04-17 08:31:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 98.139 ms

Loss rate: 0.89%

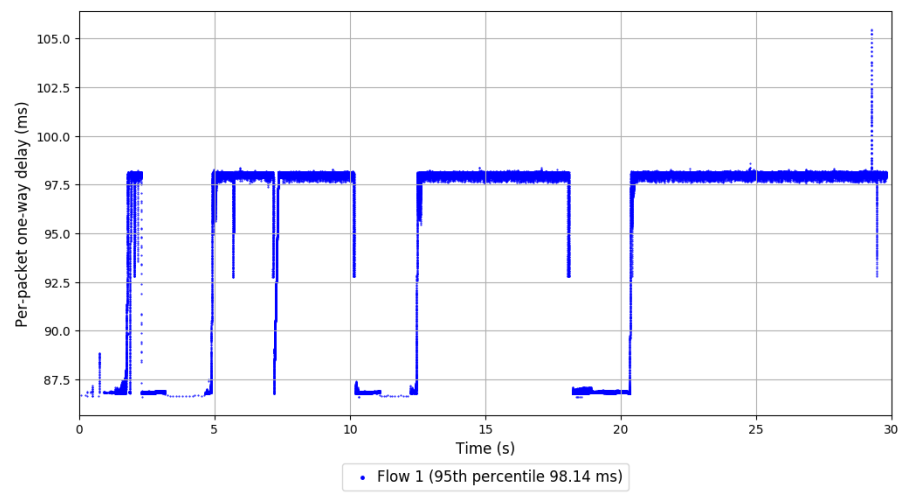
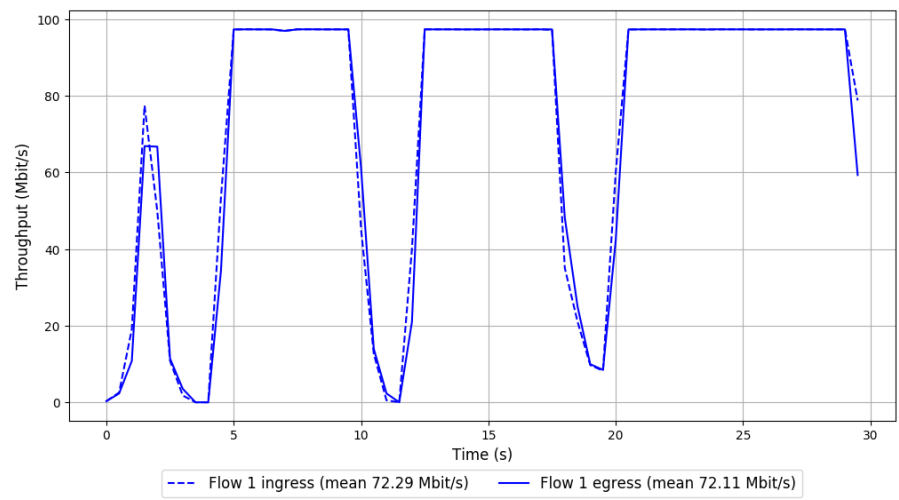
-- Flow 1:

Average throughput: 72.11 Mbit/s

95th percentile per-packet one-way delay: 98.139 ms

Loss rate: 0.89%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 02:04:15

End at: 2018-04-17 02:04:45

Local clock offset: -4.766 ms

Remote clock offset: 6.0 ms

Below is generated by plot.py at 2018-04-17 08:31:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 96.753 ms

Loss rate: 1.02%

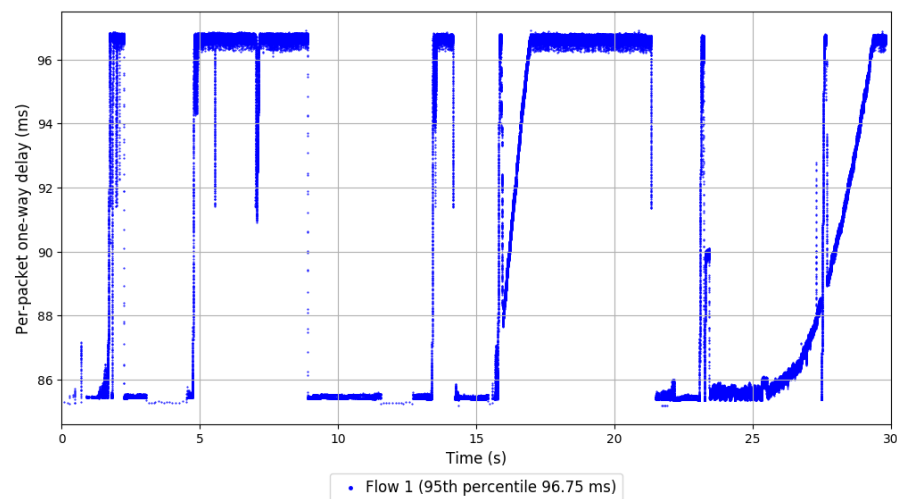
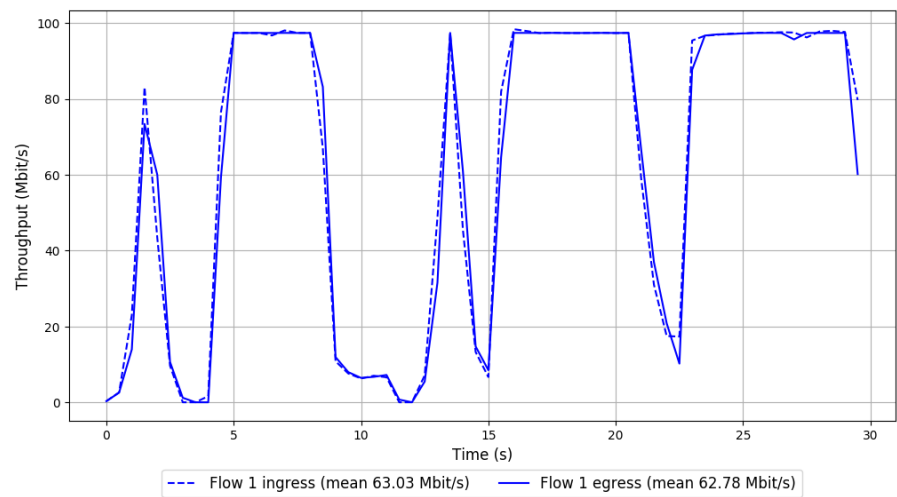
-- Flow 1:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 96.753 ms

Loss rate: 1.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 02:25:09

End at: 2018-04-17 02:25:39

Local clock offset: -3.527 ms

Remote clock offset: 5.762 ms

Below is generated by plot.py at 2018-04-17 08:31:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.31 Mbit/s

95th percentile per-packet one-way delay: 97.291 ms

Loss rate: 0.86%

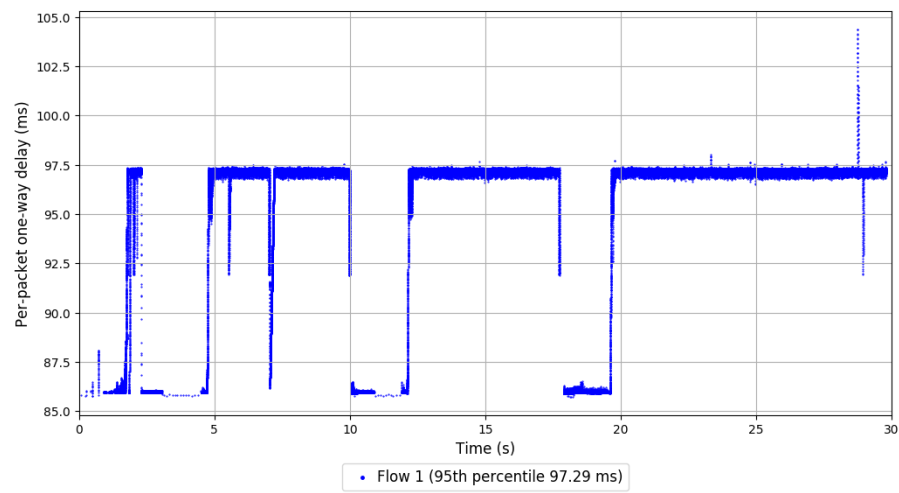
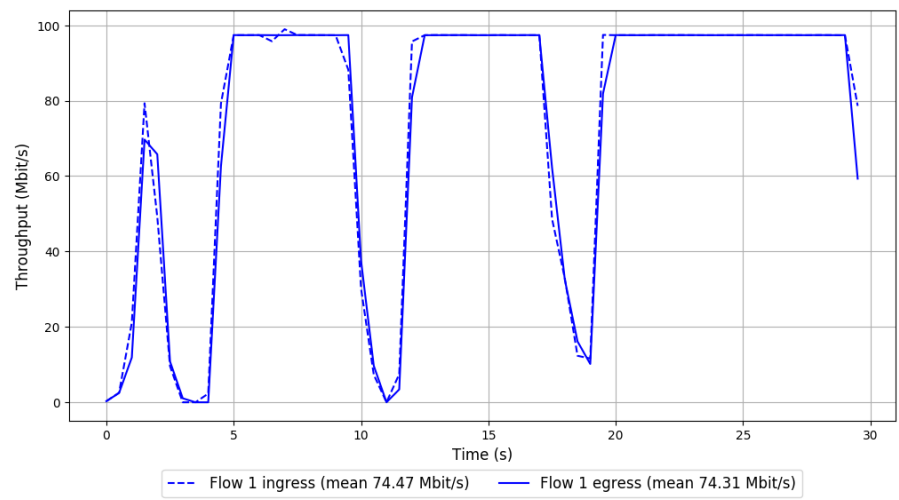
-- Flow 1:

Average throughput: 74.31 Mbit/s

95th percentile per-packet one-way delay: 97.291 ms

Loss rate: 0.86%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 02:46:04

End at: 2018-04-17 02:46:34

Local clock offset: -4.881 ms

Remote clock offset: 12.241 ms

Below is generated by plot.py at 2018-04-17 08:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 87.932 ms

Loss rate: 0.86%

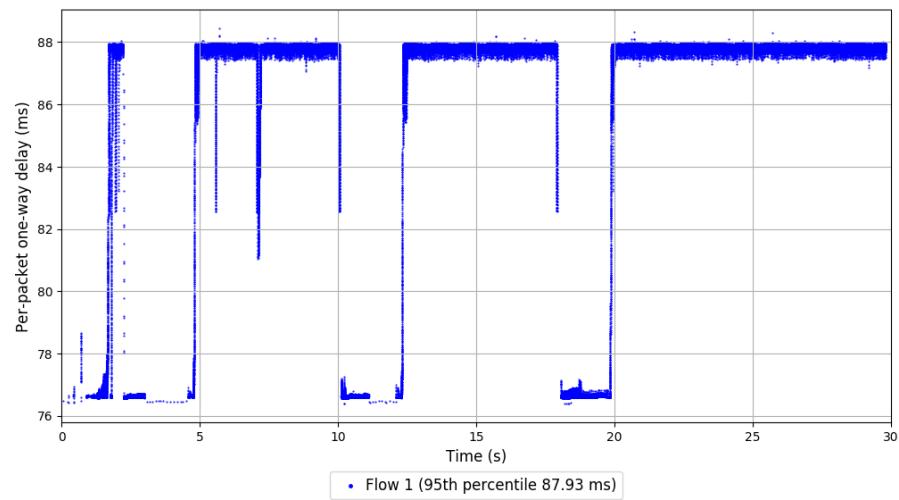
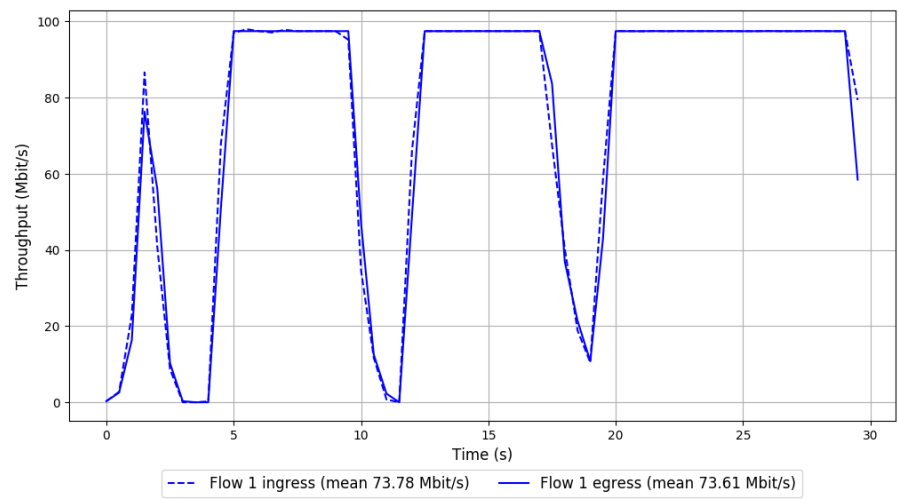
-- Flow 1:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 87.932 ms

Loss rate: 0.86%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 03:06:56

End at: 2018-04-17 03:07:26

Local clock offset: -4.188 ms

Remote clock offset: 11.441 ms

Below is generated by plot.py at 2018-04-17 08:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 89.035 ms

Loss rate: 0.86%

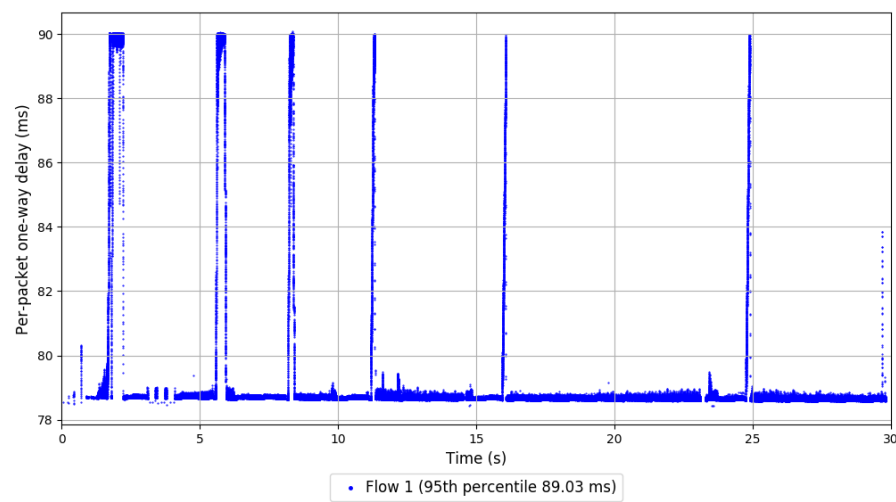
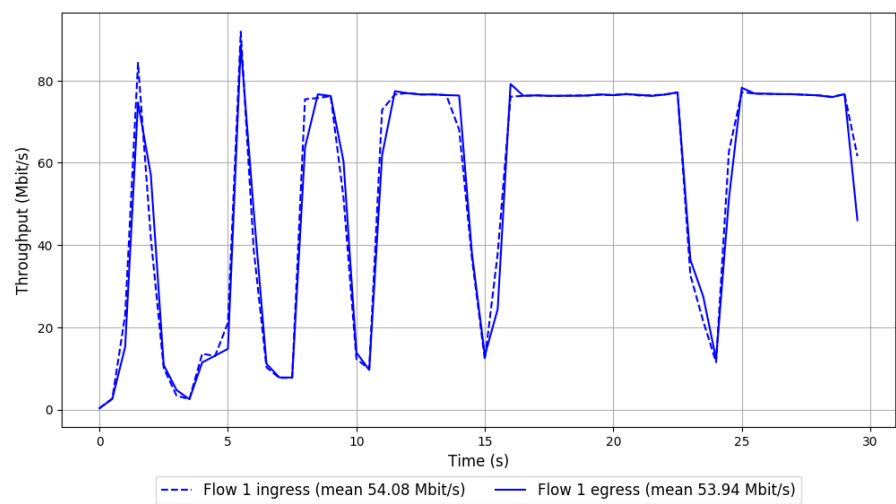
-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 89.035 ms

Loss rate: 0.86%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 03:27:46

End at: 2018-04-17 03:28:16

Local clock offset: -4.391 ms

Remote clock offset: 9.082 ms

Below is generated by plot.py at 2018-04-17 08:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 90.169 ms

Loss rate: 0.92%

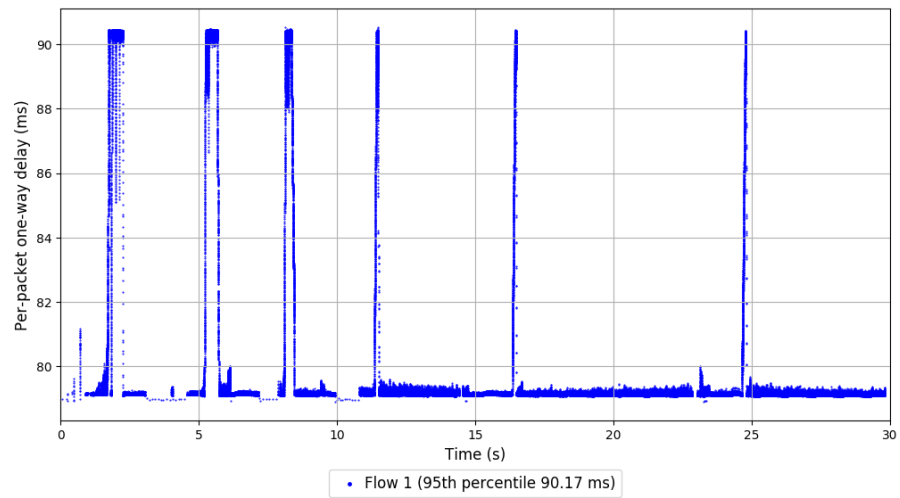
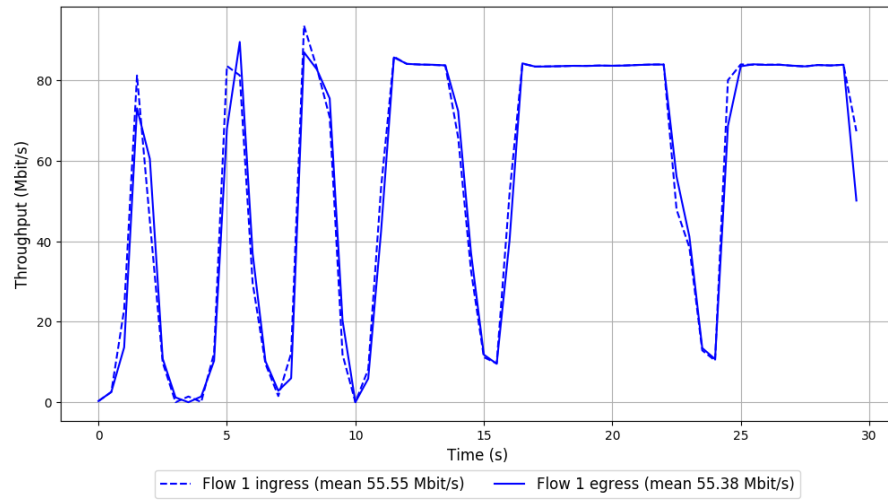
-- Flow 1:

Average throughput: 55.38 Mbit/s

95th percentile per-packet one-way delay: 90.169 ms

Loss rate: 0.92%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 03:48:39

End at: 2018-04-17 03:49:09

Local clock offset: -5.773 ms

Remote clock offset: 10.163 ms

Below is generated by plot.py at 2018-04-17 08:32:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.17 Mbit/s

95th percentile per-packet one-way delay: 88.981 ms

Loss rate: 0.95%

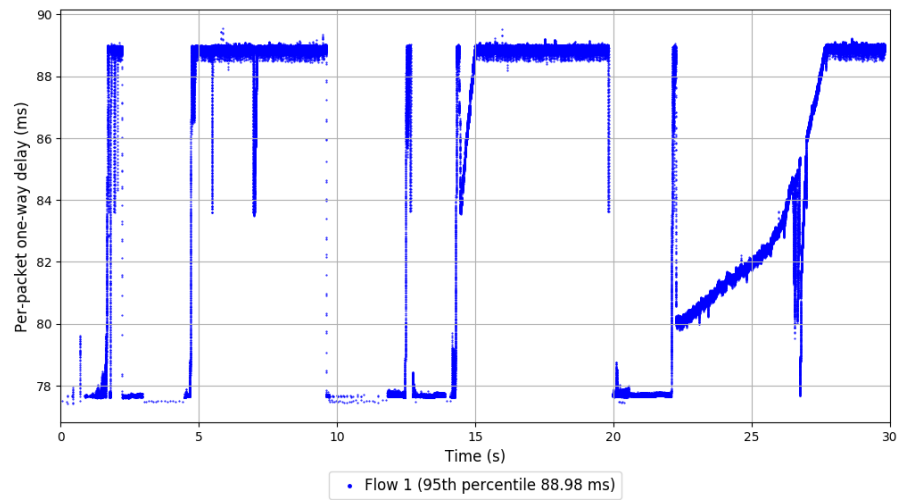
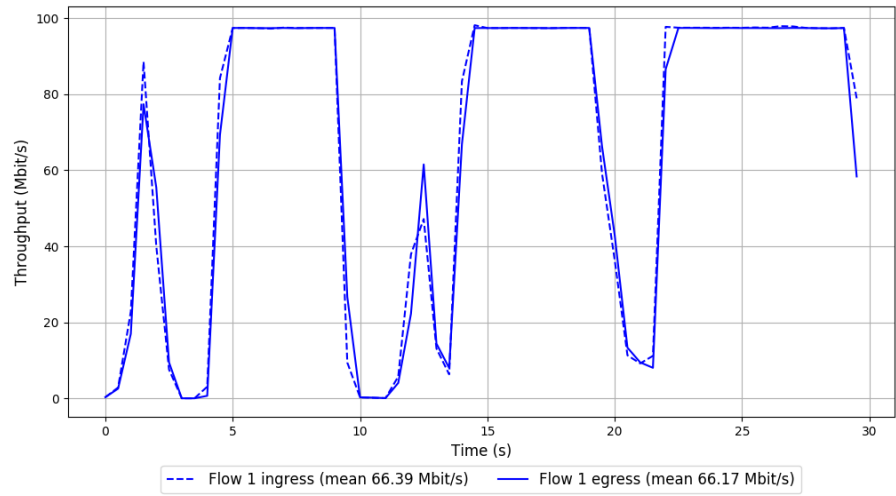
-- Flow 1:

Average throughput: 66.17 Mbit/s

95th percentile per-packet one-way delay: 88.981 ms

Loss rate: 0.95%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 04:09:32

End at: 2018-04-17 04:10:02

Local clock offset: -4.914 ms

Remote clock offset: 5.551 ms

Below is generated by plot.py at 2018-04-17 08:32:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.92 Mbit/s

95th percentile per-packet one-way delay: 97.103 ms

Loss rate: 0.97%

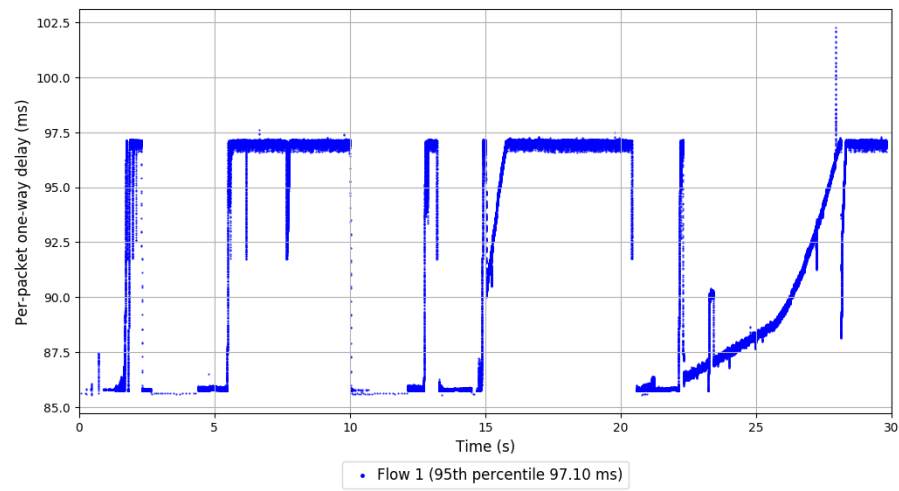
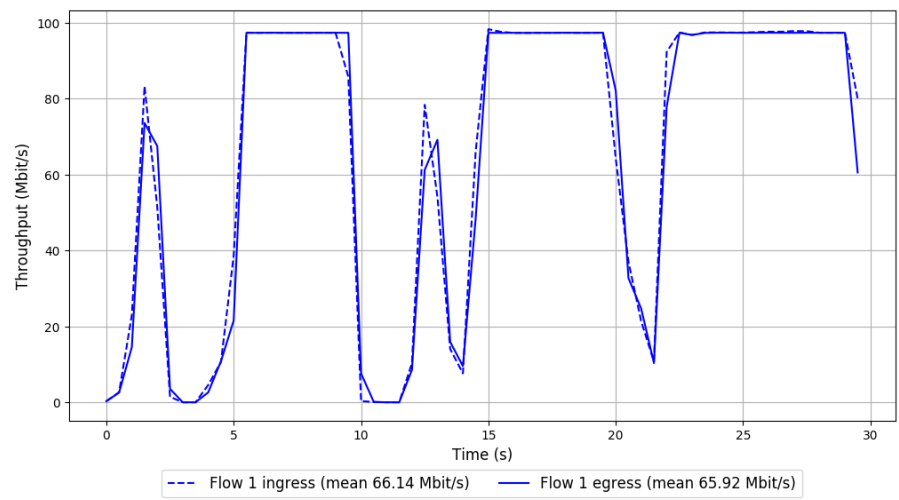
-- Flow 1:

Average throughput: 65.92 Mbit/s

95th percentile per-packet one-way delay: 97.103 ms

Loss rate: 0.97%

Run 8: Report of QUIC Cubic — Data Link

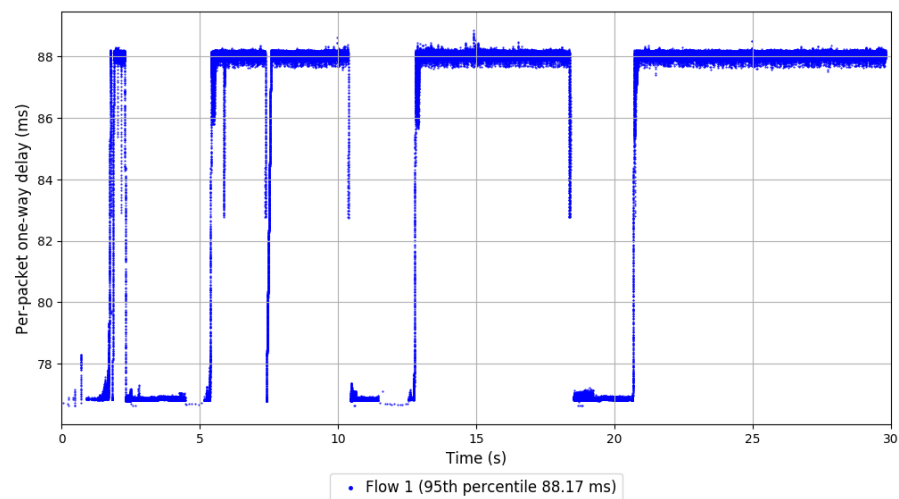
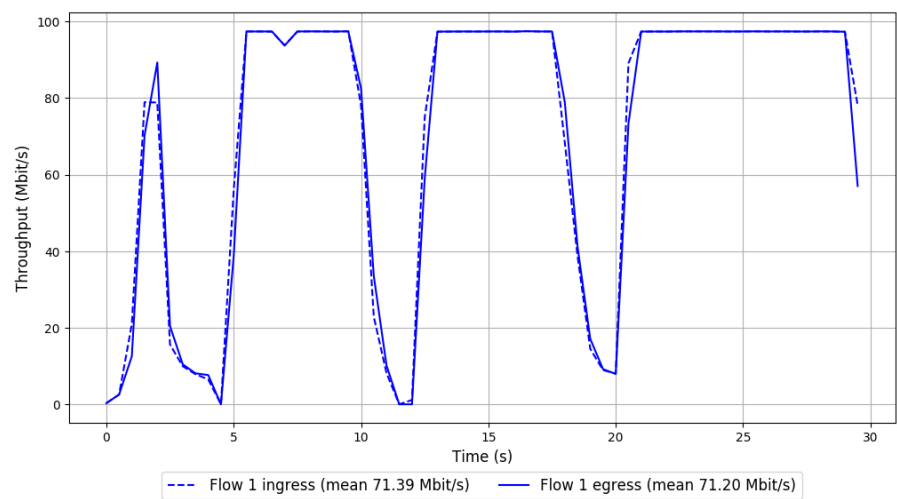


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 04:30:30
End at: 2018-04-17 04:31:00
Local clock offset: -5.415 ms
Remote clock offset: 12.697 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 88.169 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 88.169 ms
Loss rate: 0.89%

Run 9: Report of QUIC Cubic — Data Link

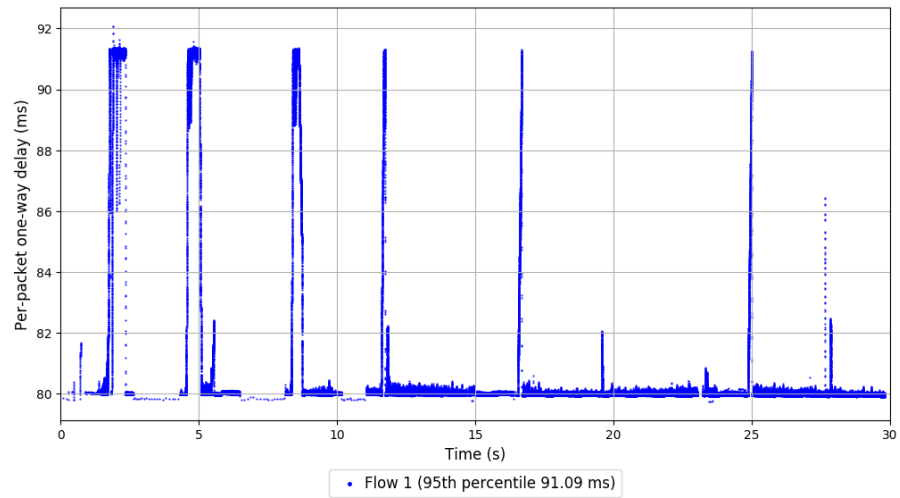
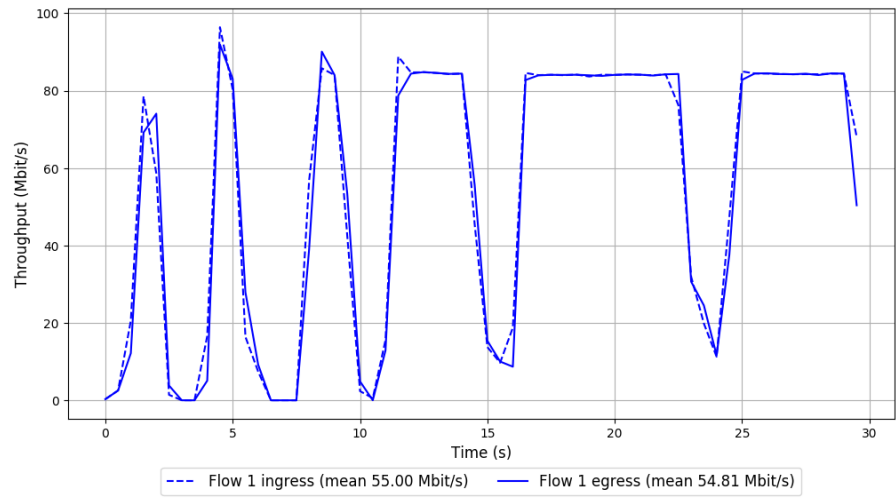


Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 04:51:25
End at: 2018-04-17 04:51:55
Local clock offset: -4.237 ms
Remote clock offset: 12.192 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.81 Mbit/s
95th percentile per-packet one-way delay: 91.087 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 54.81 Mbit/s
95th percentile per-packet one-way delay: 91.087 ms
Loss rate: 0.95%

Run 10: Report of QUIC Cubic — Data Link

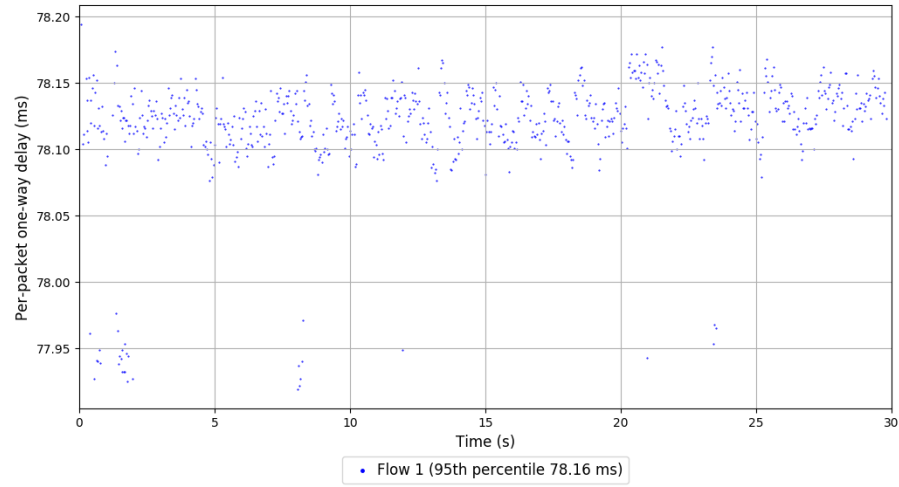
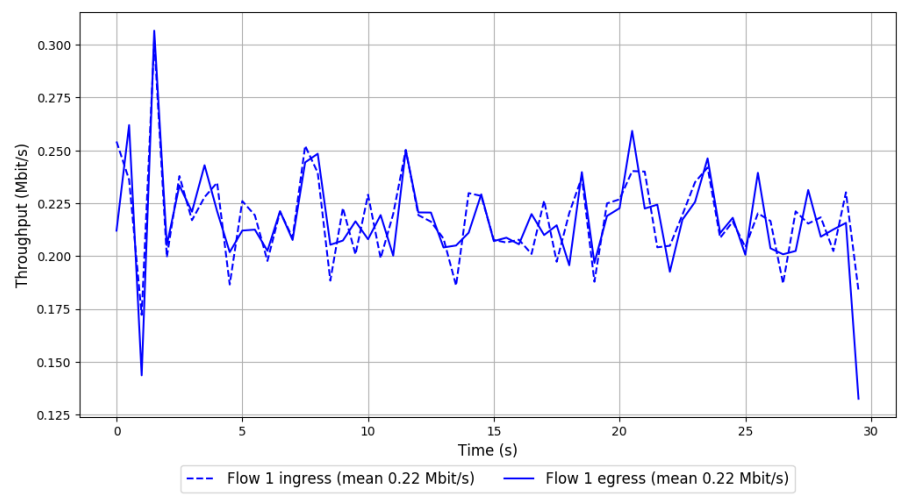


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 01:32:14
End at: 2018-04-17 01:32:44
Local clock offset: -5.585 ms
Remote clock offset: 11.177 ms

# Below is generated by plot.py at 2018-04-17 08:32:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.157 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.157 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-17 01:53:07

End at: 2018-04-17 01:53:37

Local clock offset: -4.703 ms

Remote clock offset: 6.278 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.824 ms

Loss rate: 0.64%

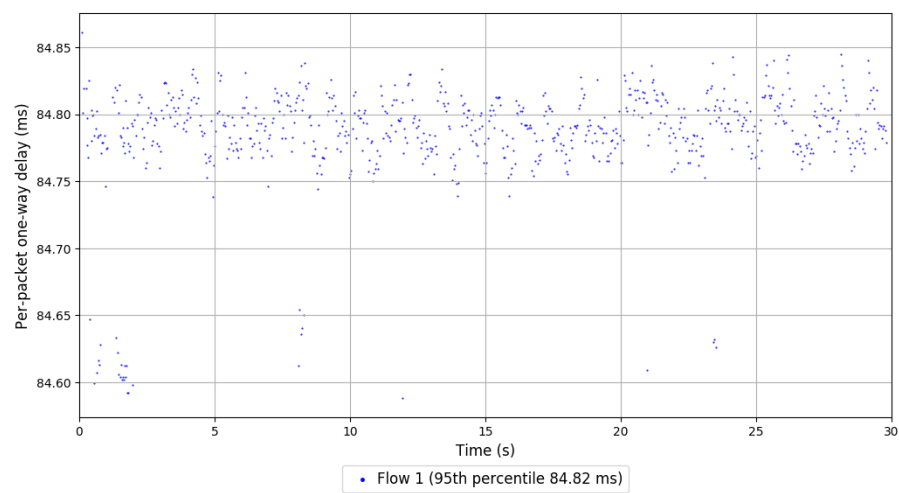
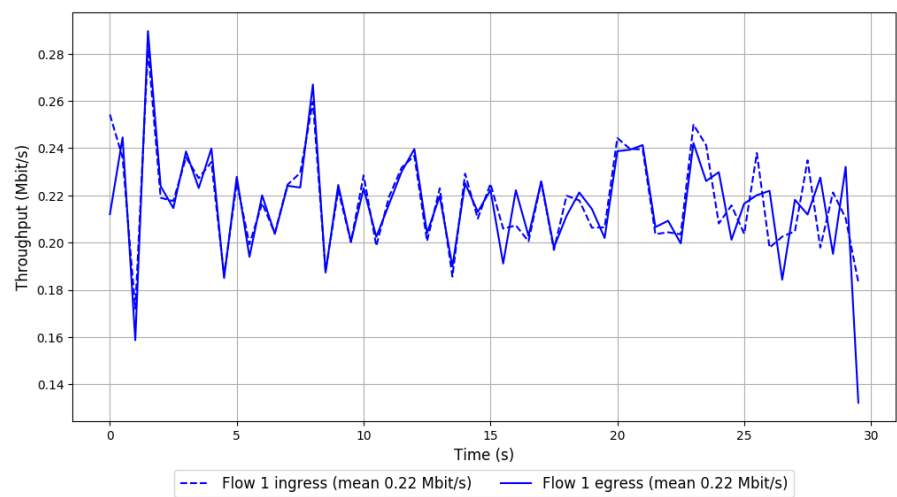
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.824 ms

Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-17 02:13:59

End at: 2018-04-17 02:14:29

Local clock offset: -4.748 ms

Remote clock offset: 5.781 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.701 ms

Loss rate: 0.64%

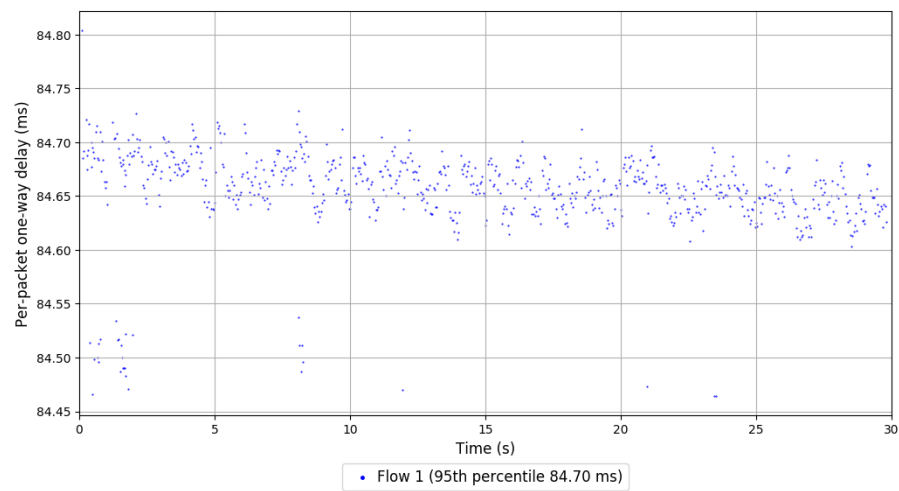
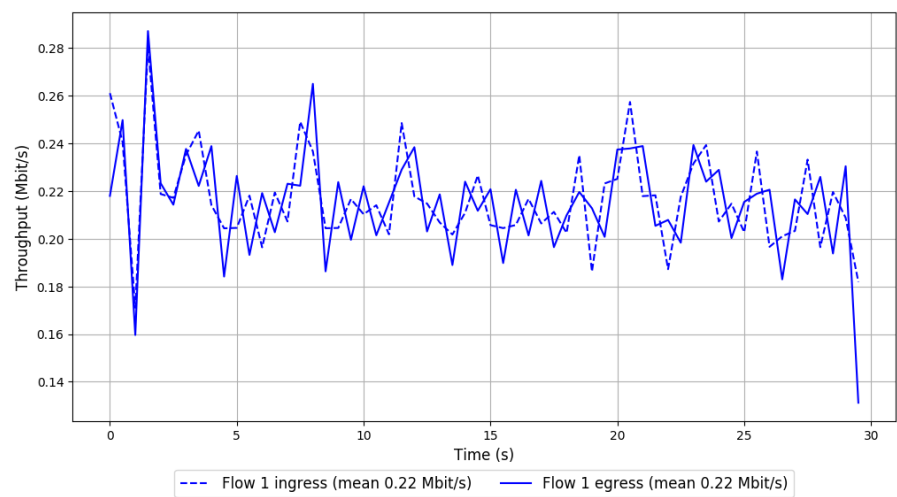
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 84.701 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link

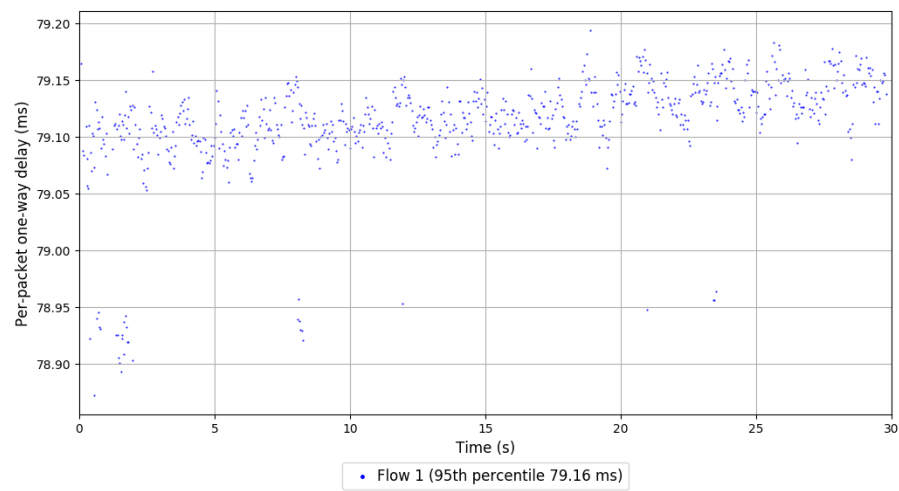
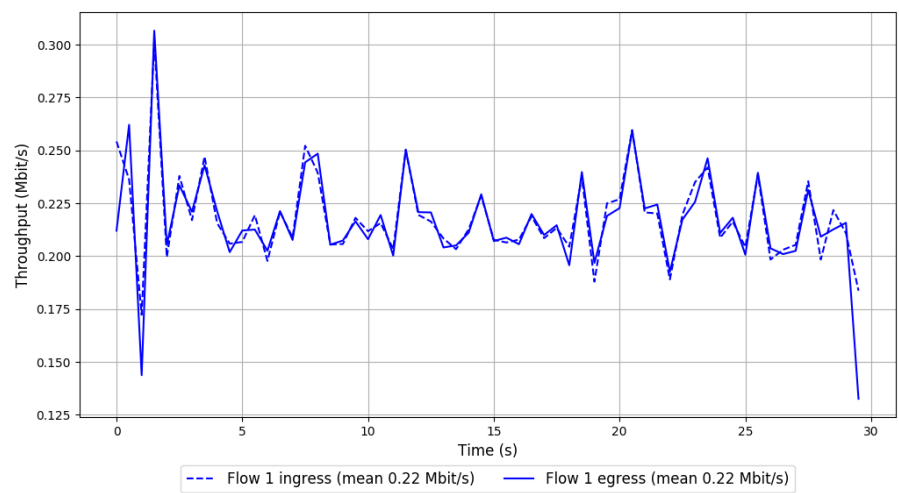


Run 4: Statistics of SCReAM

Start at: 2018-04-17 02:34:54
End at: 2018-04-17 02:35:24
Local clock offset: -4.166 ms
Remote clock offset: 11.366 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.163 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.163 ms
Loss rate: 0.64%

Run 4: Report of SReAM — Data Link

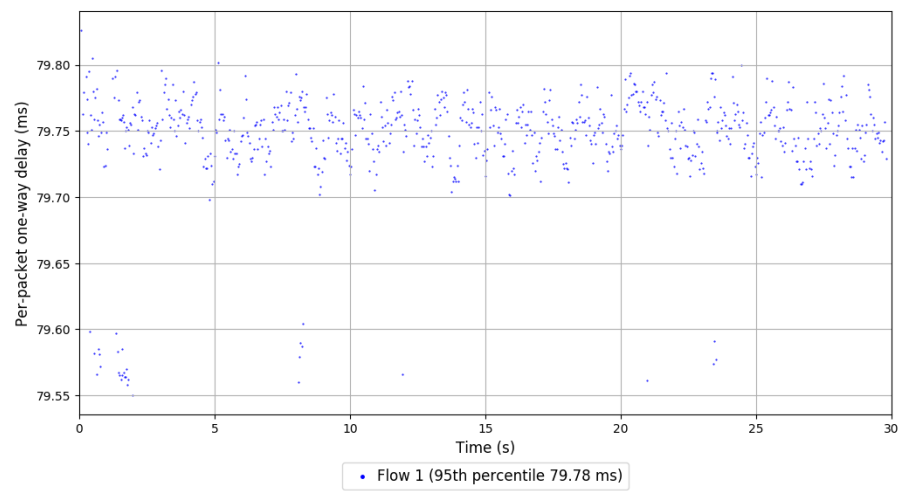
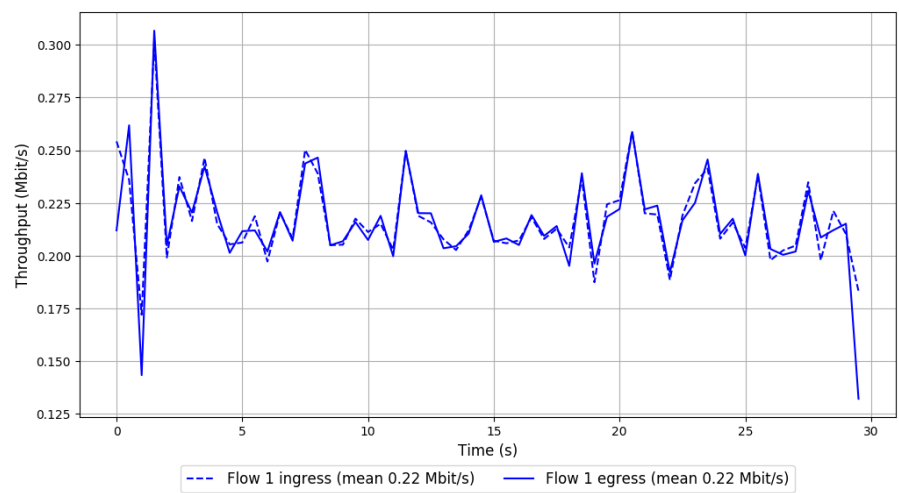


Run 5: Statistics of SCReAM

Start at: 2018-04-17 02:55:48
End at: 2018-04-17 02:56:18
Local clock offset: -4.207 ms
Remote clock offset: 11.495 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.784 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.784 ms
Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-17 03:16:38

End at: 2018-04-17 03:17:08

Local clock offset: -4.372 ms

Remote clock offset: 9.552 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.222 ms

Loss rate: 0.64%

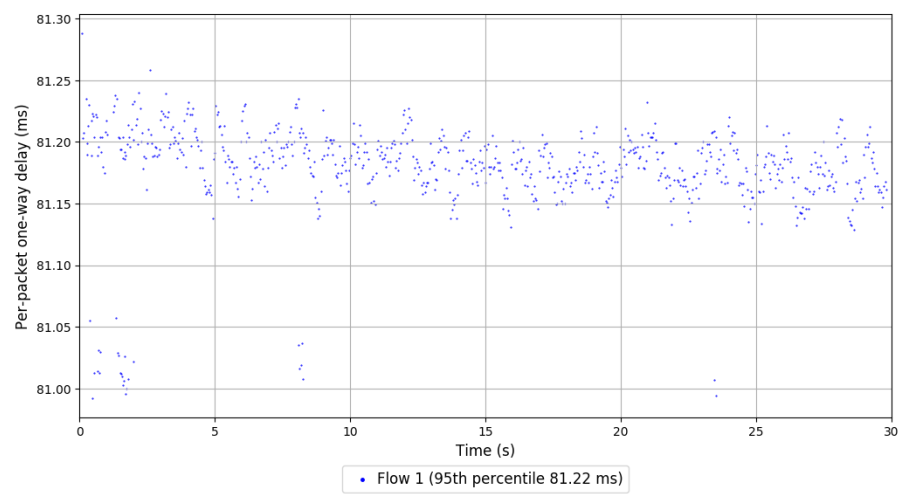
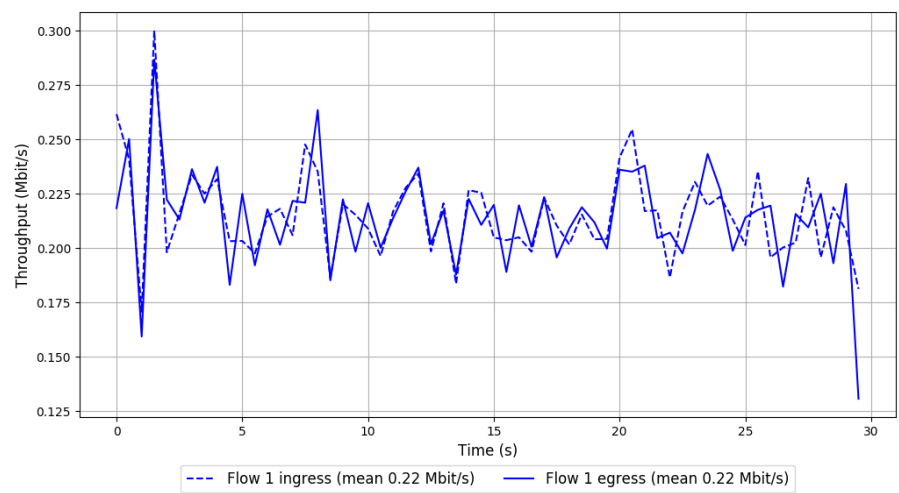
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.222 ms

Loss rate: 0.64%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-17 03:37:28

End at: 2018-04-17 03:37:58

Local clock offset: -4.446 ms

Remote clock offset: 4.018 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.648 ms

Loss rate: 0.64%

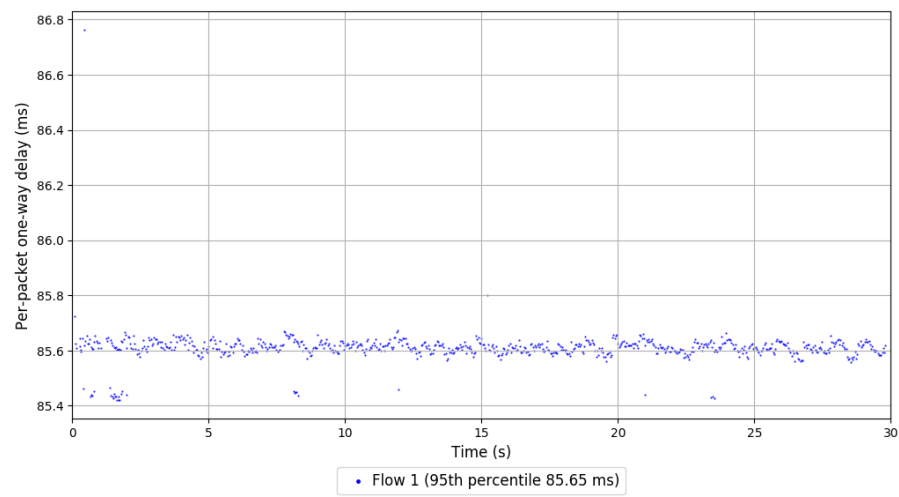
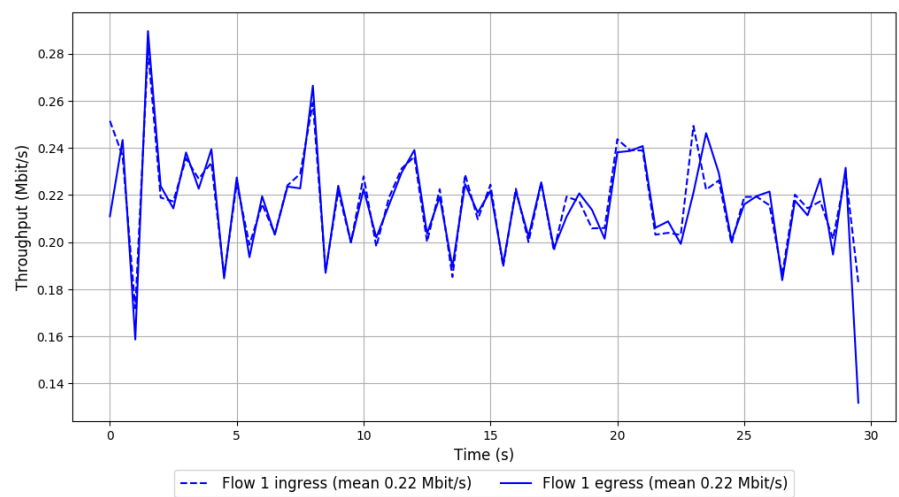
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.648 ms

Loss rate: 0.64%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-17 03:58:22

End at: 2018-04-17 03:58:53

Local clock offset: -4.663 ms

Remote clock offset: 9.415 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.187 ms

Loss rate: 0.64%

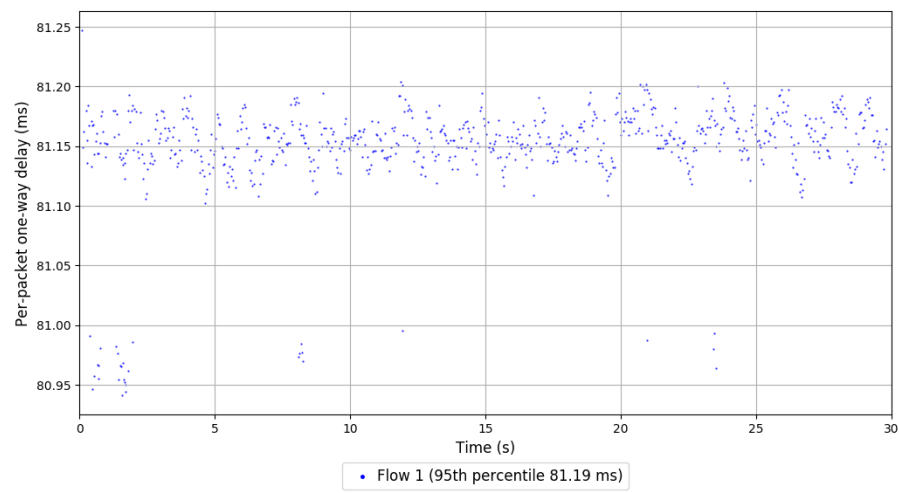
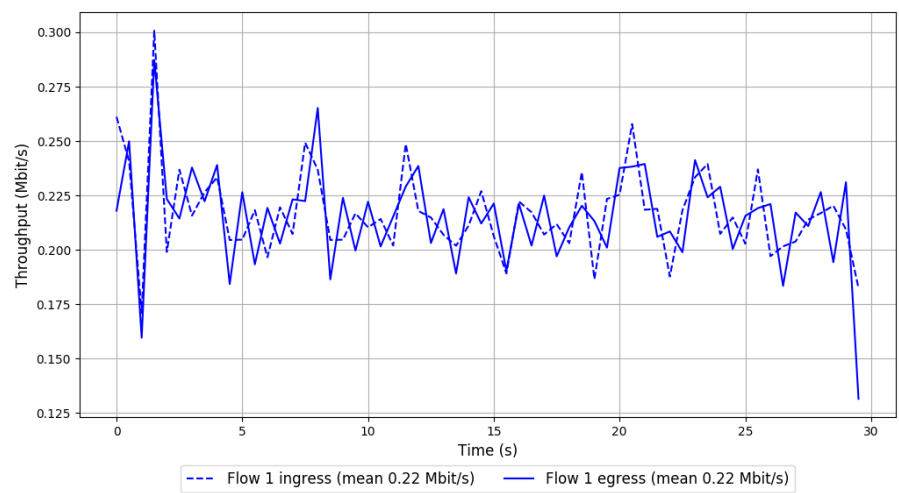
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.187 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

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

Local clock offset: -5.352 ms

Remote clock offset: 6.155 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.338 ms

Loss rate: 0.64%

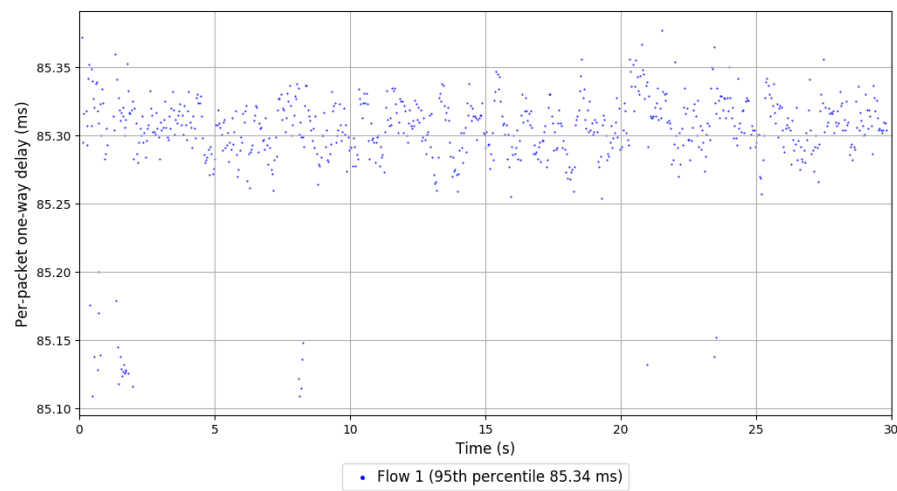
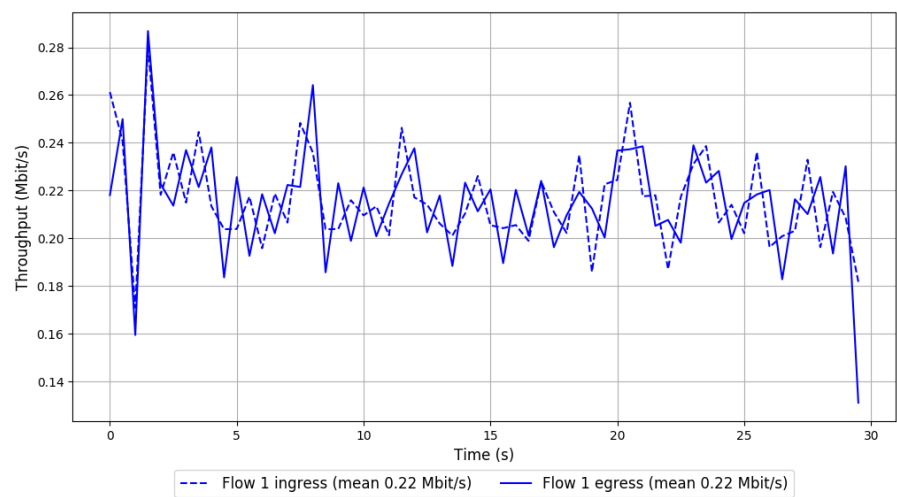
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.338 ms

Loss rate: 0.64%

Run 9: Report of SReAM — Data Link

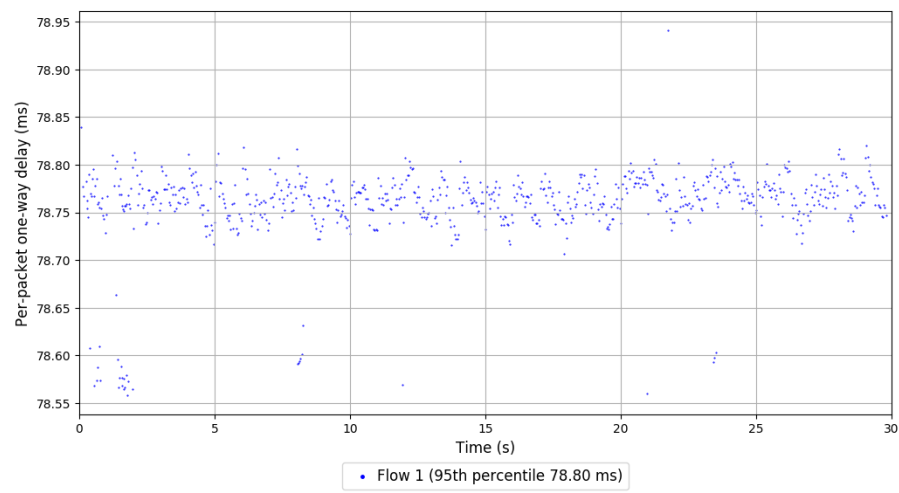
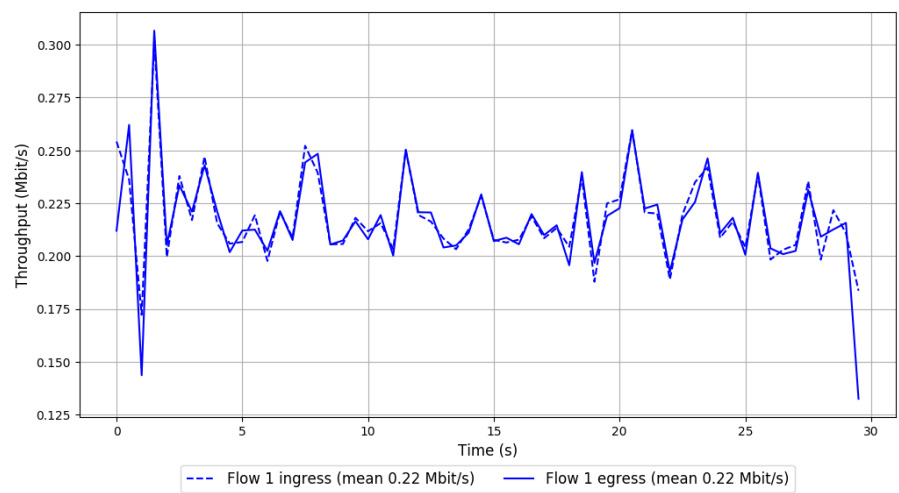


Run 10: Statistics of SReAM

Start at: 2018-04-17 04:40:15
End at: 2018-04-17 04:40:45
Local clock offset: -4.378 ms
Remote clock offset: 12.238 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.797 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.797 ms
Loss rate: 0.64%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-17 01:26:11

End at: 2018-04-17 01:26:41

Local clock offset: -6.343 ms

Remote clock offset: 9.922 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 79.780 ms

Loss rate: 0.17%

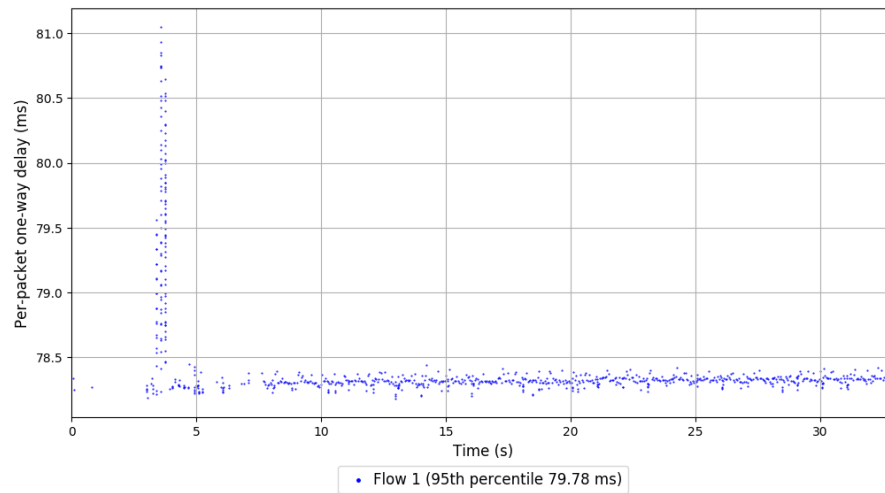
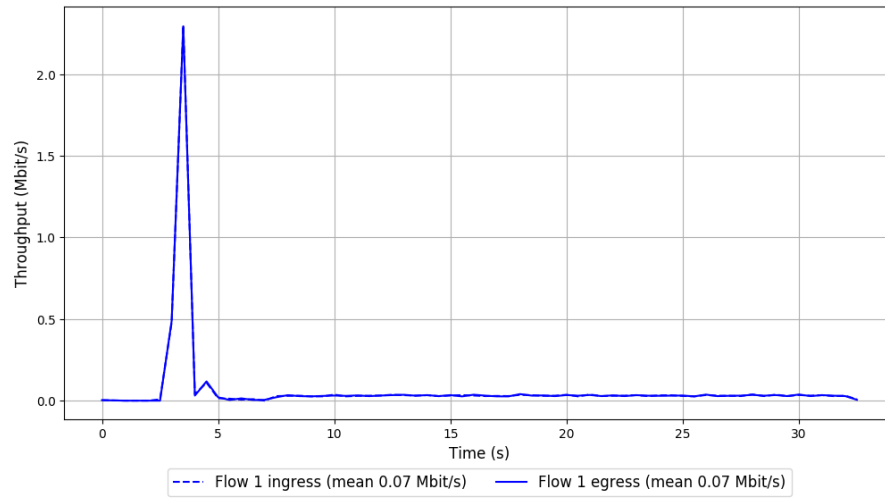
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 79.780 ms

Loss rate: 0.17%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 01:47:04

End at: 2018-04-17 01:47:34

Local clock offset: -6.168 ms

Remote clock offset: 6.099 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.313 ms

Loss rate: 0.00%

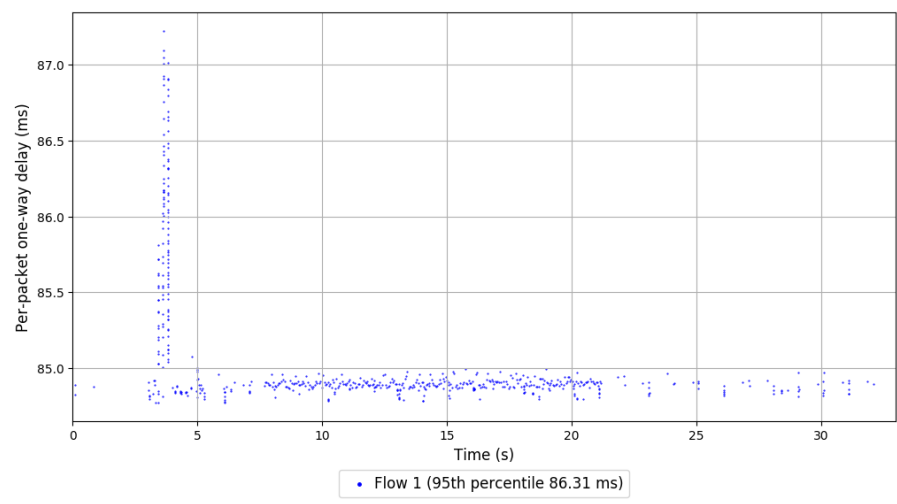
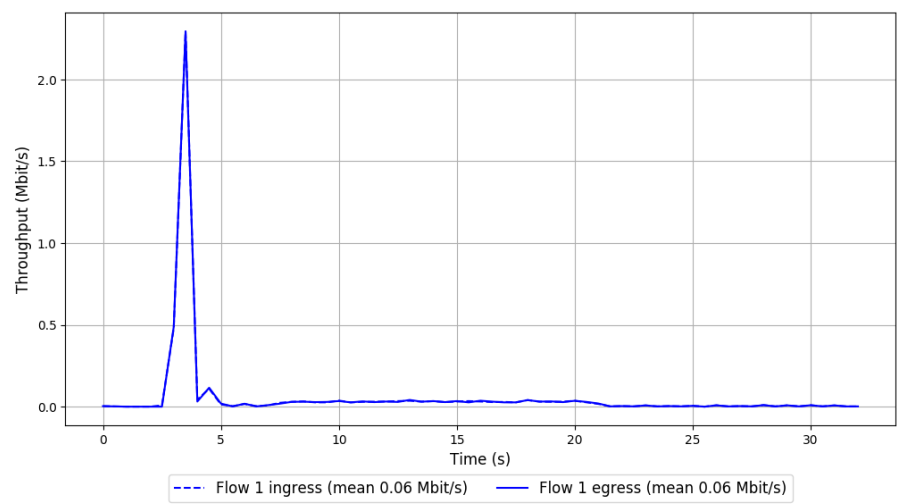
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 86.313 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

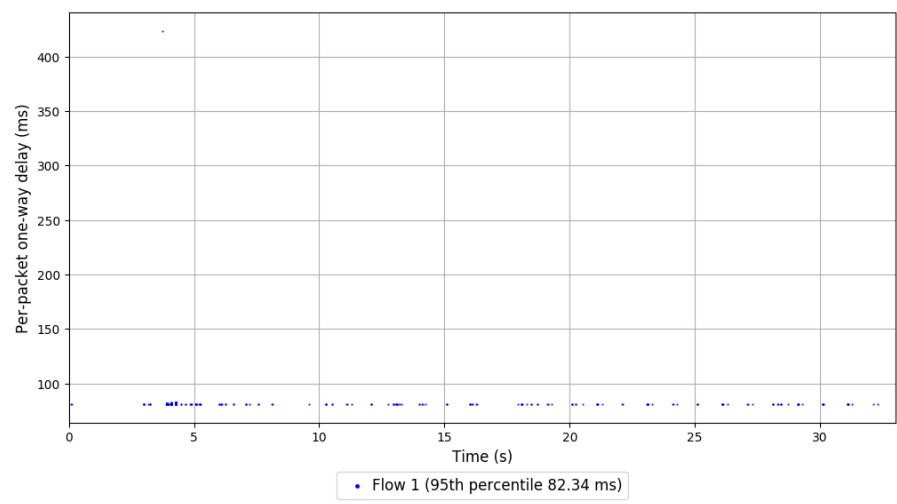
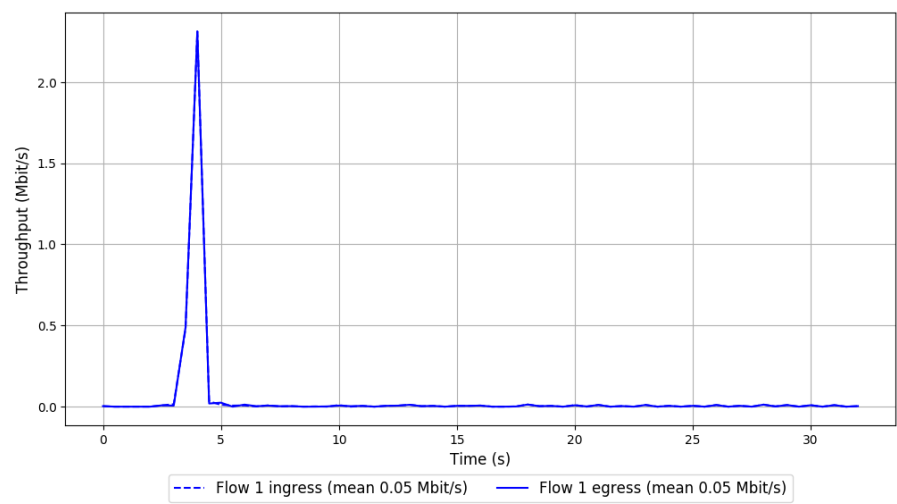


Run 3: Statistics of WebRTC media

Start at: 2018-04-17 02:07:56
End at: 2018-04-17 02:08:26
Local clock offset: -4.431 ms
Remote clock offset: 10.721 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 82.340 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

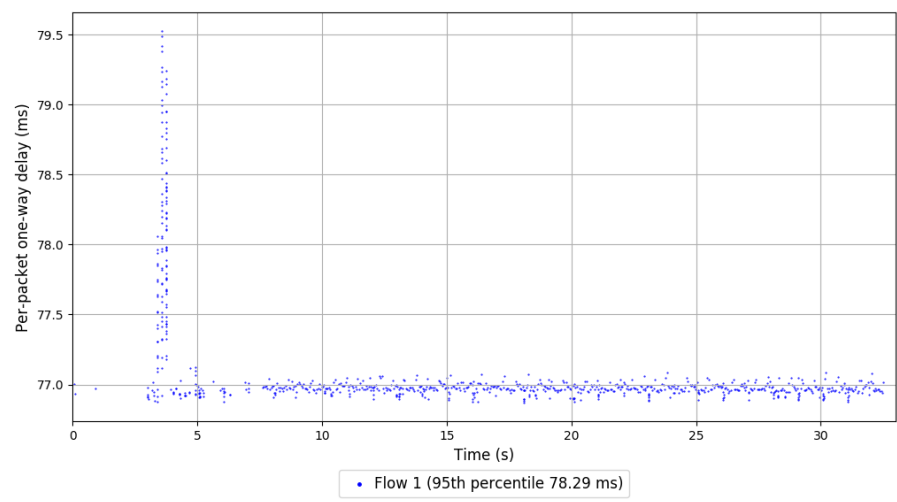
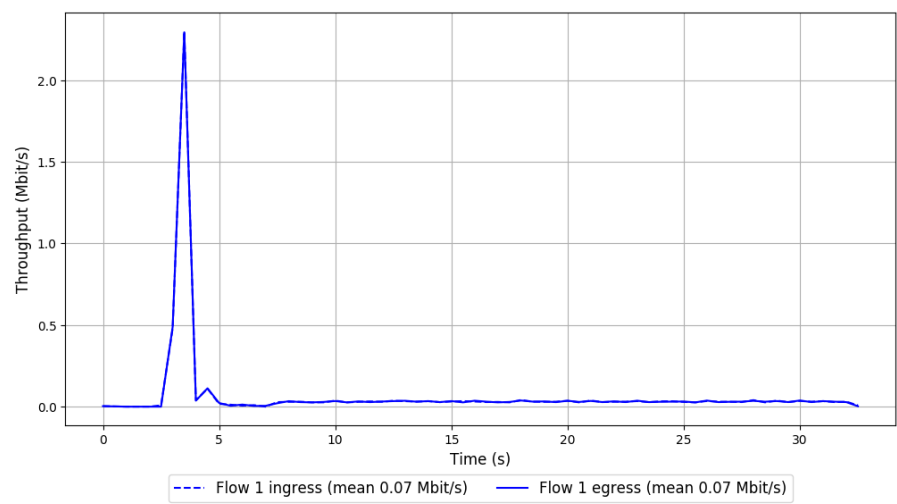


Run 4: Statistics of WebRTC media

Start at: 2018-04-17 02:28:51
End at: 2018-04-17 02:29:21
Local clock offset: -4.223 ms
Remote clock offset: 11.357 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 78.294 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 78.294 ms
Loss rate: 0.23%

Run 4: Report of WebRTC media — Data Link

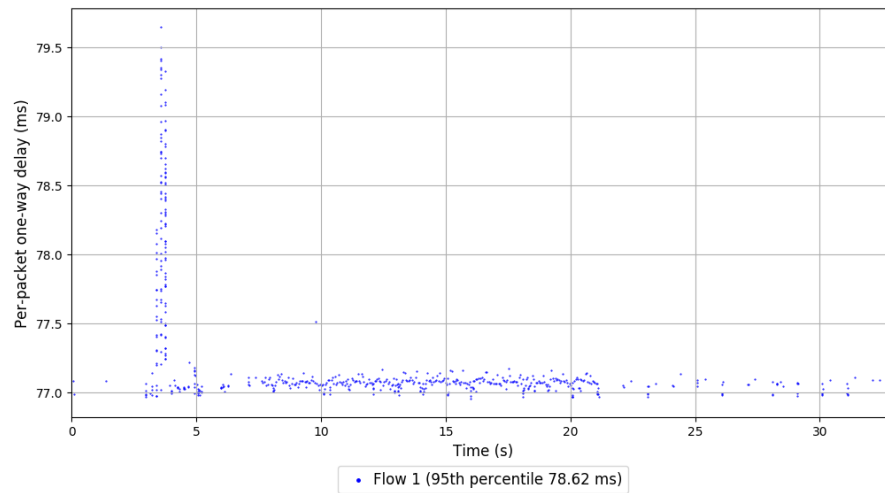
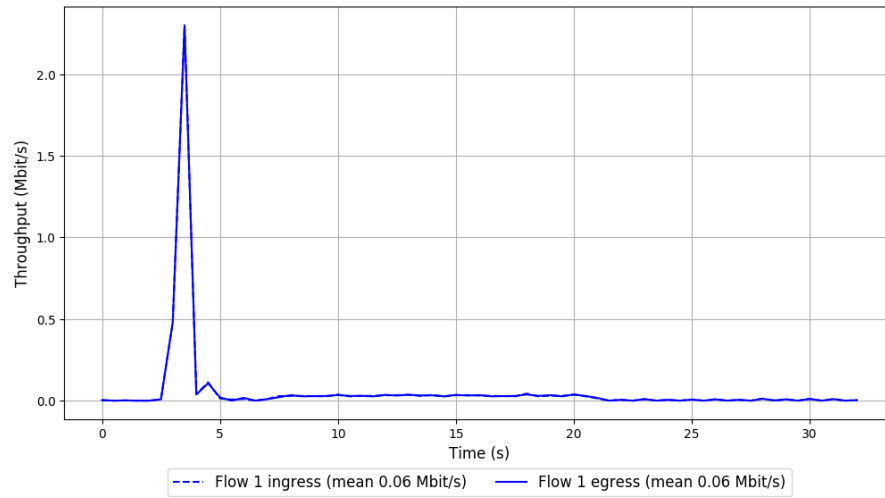


Run 5: Statistics of WebRTC media

Start at: 2018-04-17 02:49:44
End at: 2018-04-17 02:50:14
Local clock offset: -4.965 ms
Remote clock offset: 12.219 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 78.624 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 78.624 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-17 03:10:35

End at: 2018-04-17 03:11:05

Local clock offset: -5.065 ms

Remote clock offset: 6.113 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 83.703 ms

Loss rate: 0.00%

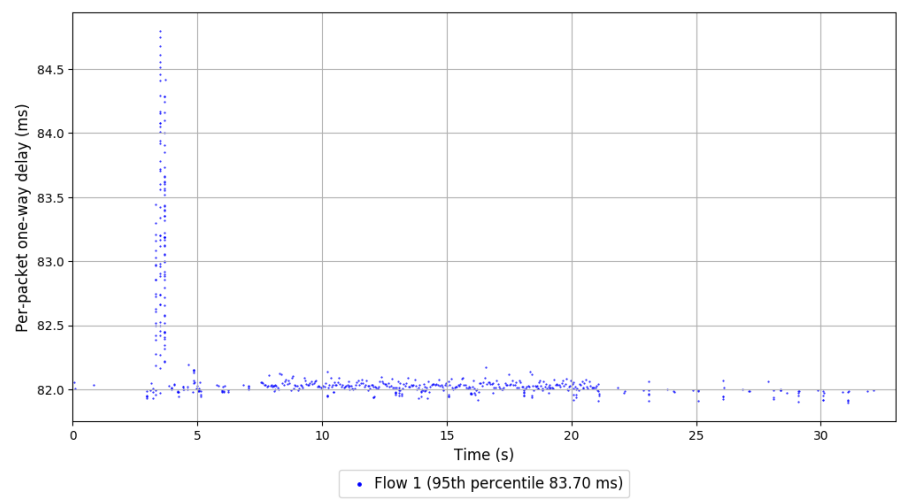
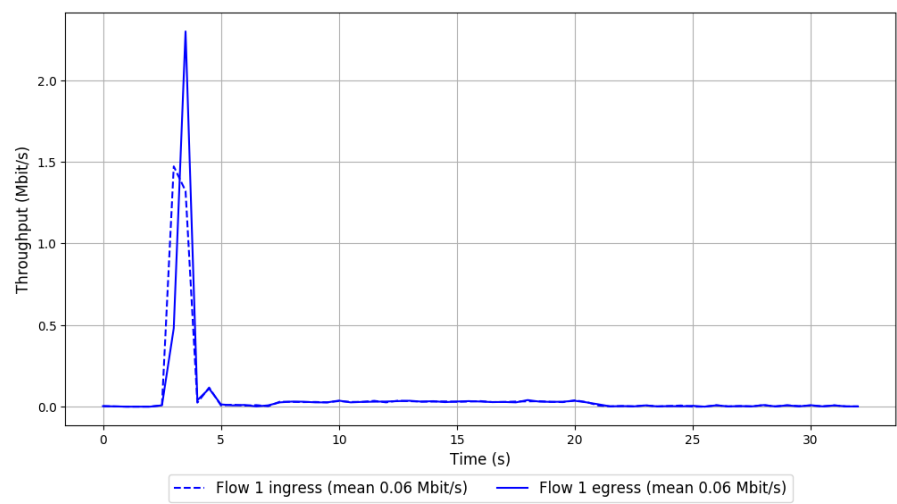
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 83.703 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-17 03:31:26

End at: 2018-04-17 03:31:56

Local clock offset: -4.363 ms

Remote clock offset: 4.216 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.266 ms

Loss rate: 0.00%

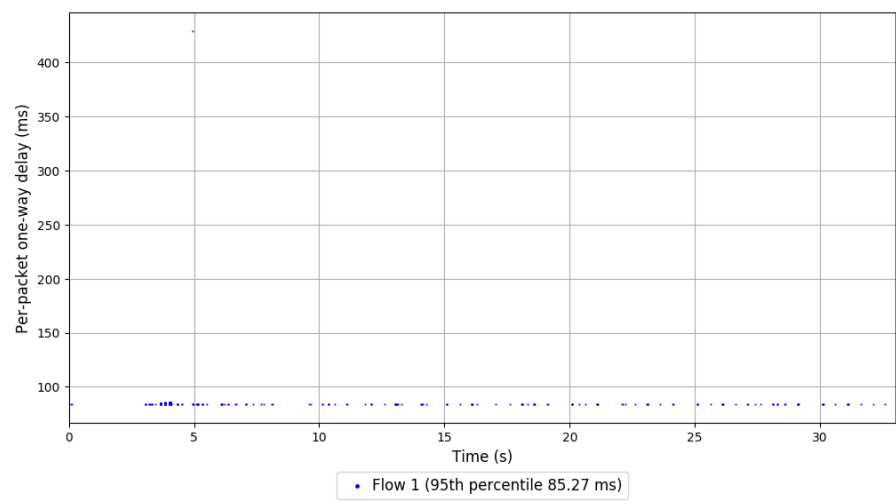
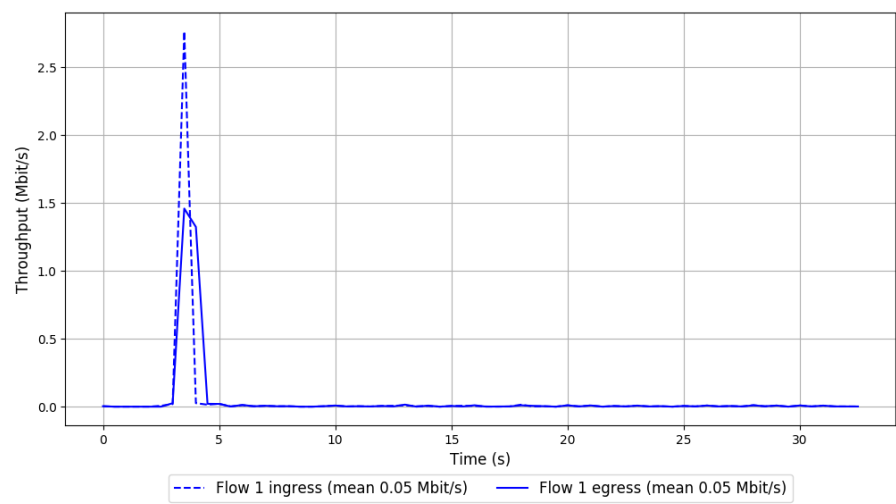
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 85.266 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

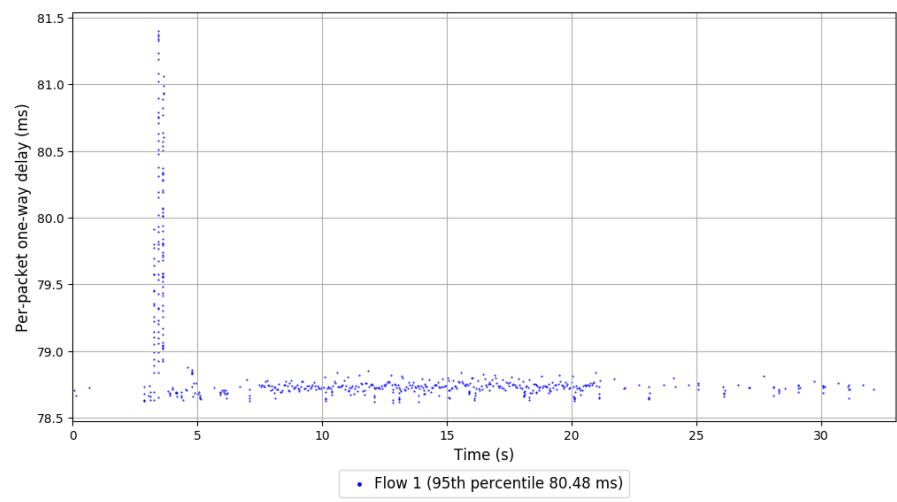
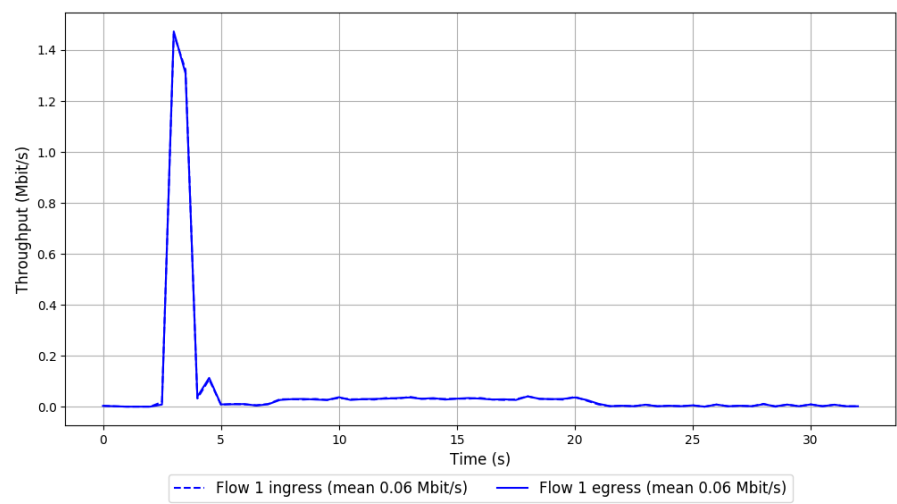


Run 8: Statistics of WebRTC media

Start at: 2018-04-17 03:52:19
End at: 2018-04-17 03:52:49
Local clock offset: -6.004 ms
Remote clock offset: 11.066 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 80.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 80.477 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

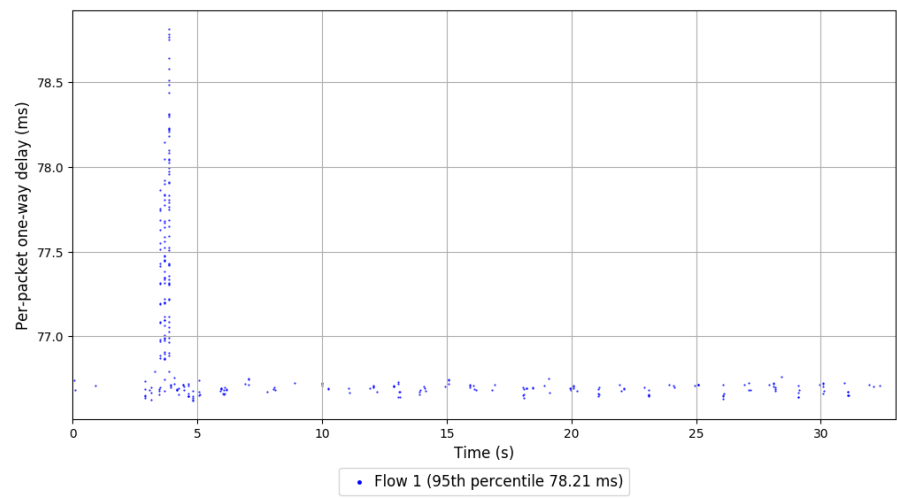
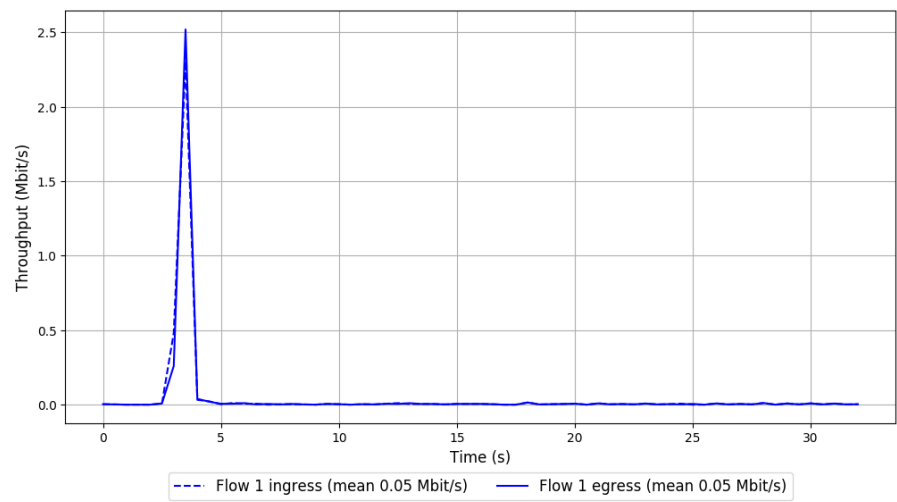


Run 9: Statistics of WebRTC media

Start at: 2018-04-17 04:13:14
End at: 2018-04-17 04:13:44
Local clock offset: -5.798 ms
Remote clock offset: 11.255 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 78.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 78.206 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 04:34:11

End at: 2018-04-17 04:34:41

Local clock offset: -4.528 ms

Remote clock offset: 7.291 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 84.462 ms

Loss rate: 0.00%

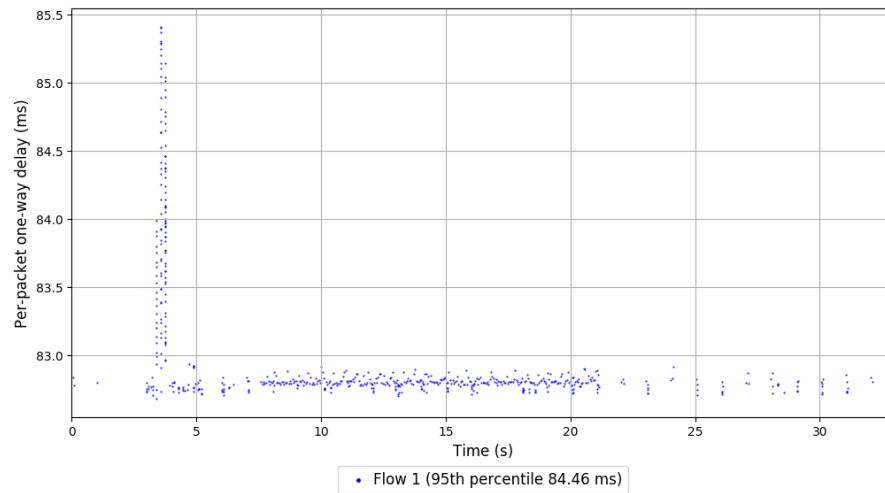
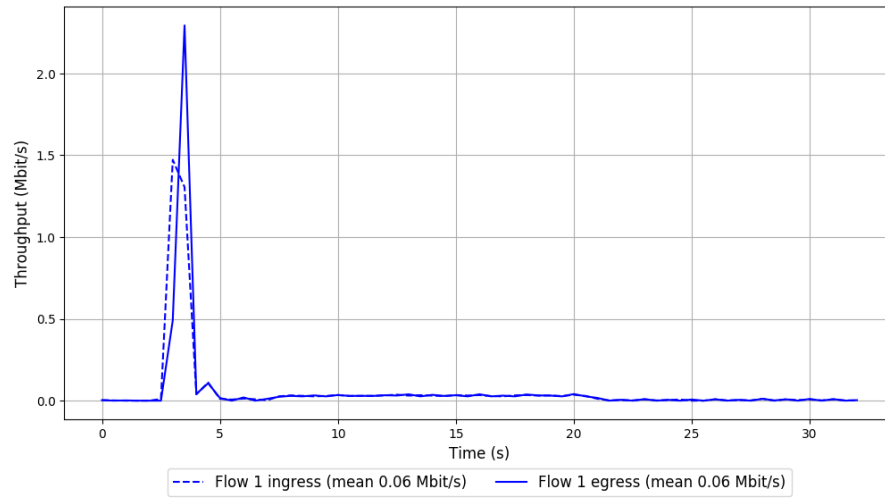
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 84.462 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-17 01:39:43

End at: 2018-04-17 01:40:13

Local clock offset: -4.667 ms

Remote clock offset: 5.855 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 93.190 ms

Loss rate: 0.84%

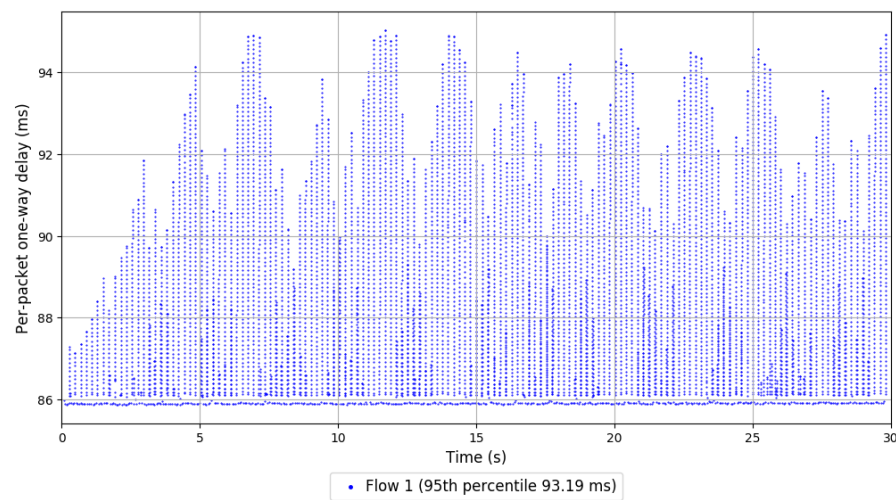
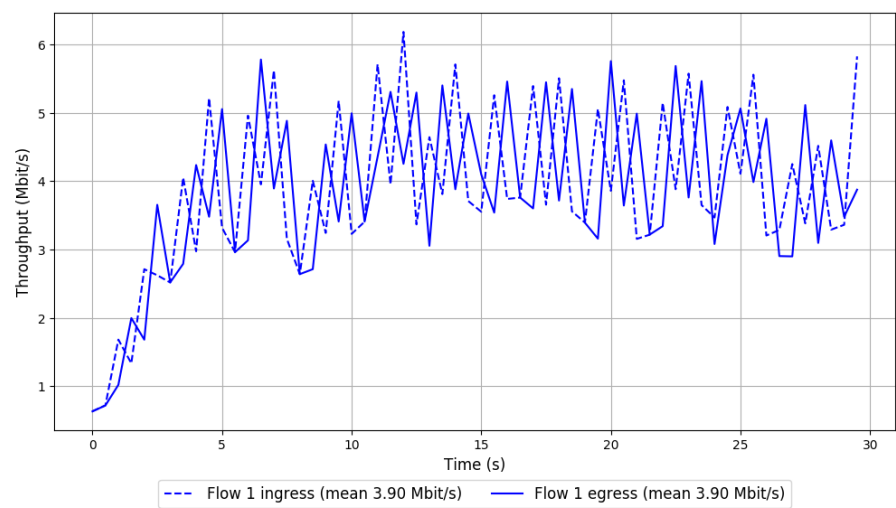
-- Flow 1:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 93.190 ms

Loss rate: 0.84%

Run 1: Report of Sprout — Data Link

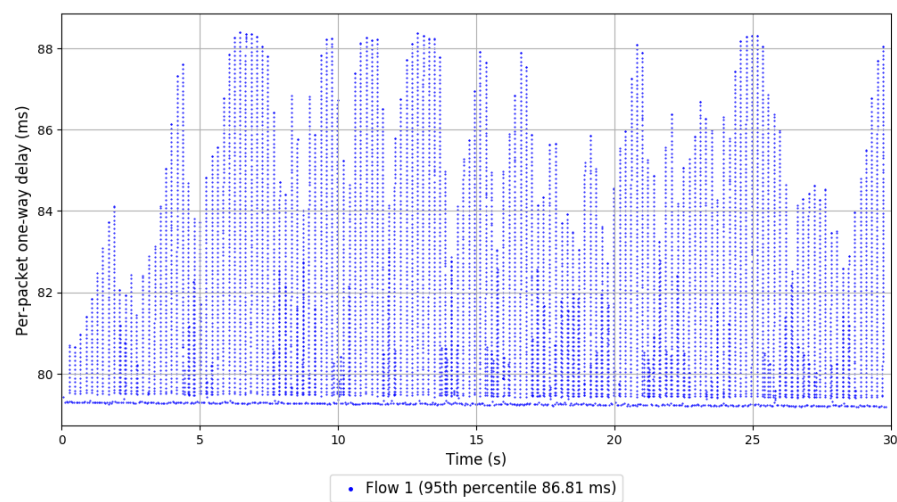
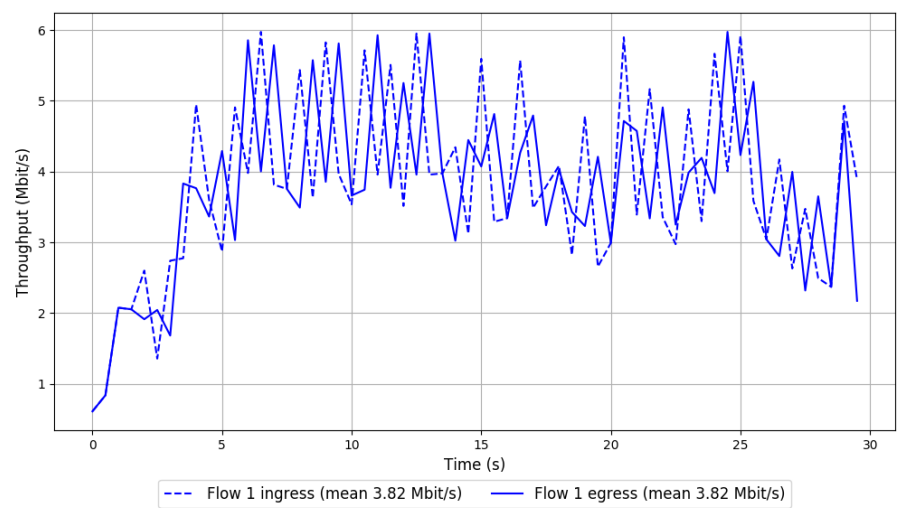


Run 2: Statistics of Sprout

Start at: 2018-04-17 02:00:36
End at: 2018-04-17 02:01:06
Local clock offset: -4.545 ms
Remote clock offset: 12.644 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 86.812 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 86.812 ms
Loss rate: 0.84%

Run 2: Report of Sprout — Data Link

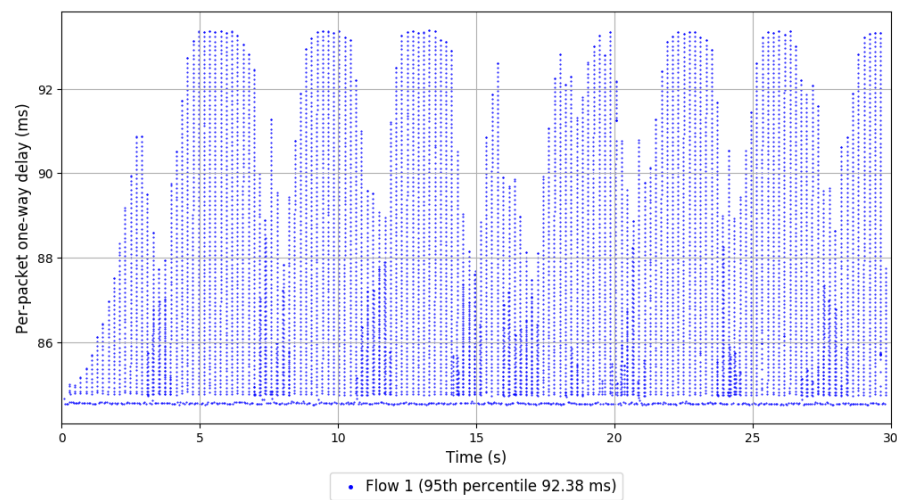
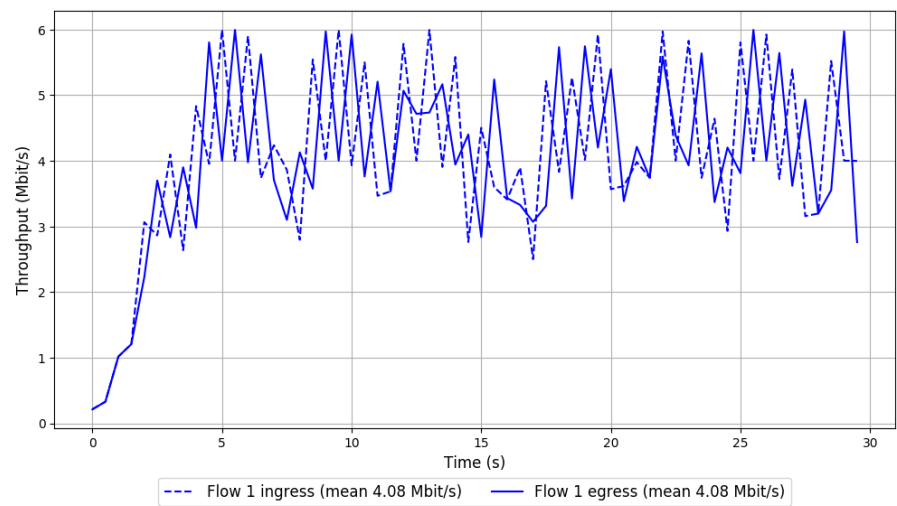


Run 3: Statistics of Sprout

Start at: 2018-04-17 02:21:28
End at: 2018-04-17 02:21:58
Local clock offset: -4.422 ms
Remote clock offset: 5.656 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 92.378 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 92.378 ms
Loss rate: 0.51%

Run 3: Report of Sprout — Data Link

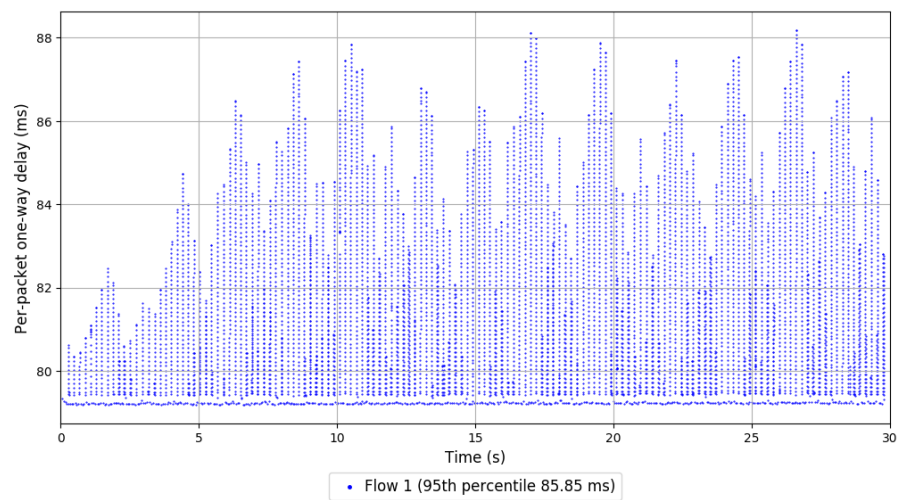
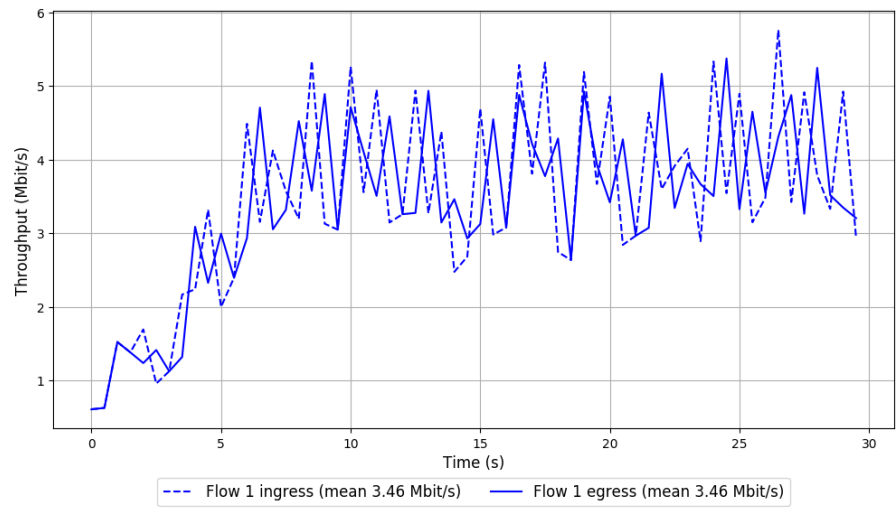


Run 4: Statistics of Sprout

Start at: 2018-04-17 02:42:24
End at: 2018-04-17 02:42:54
Local clock offset: -3.989 ms
Remote clock offset: 11.407 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 85.852 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 85.852 ms
Loss rate: 0.63%

Run 4: Report of Sprout — Data Link

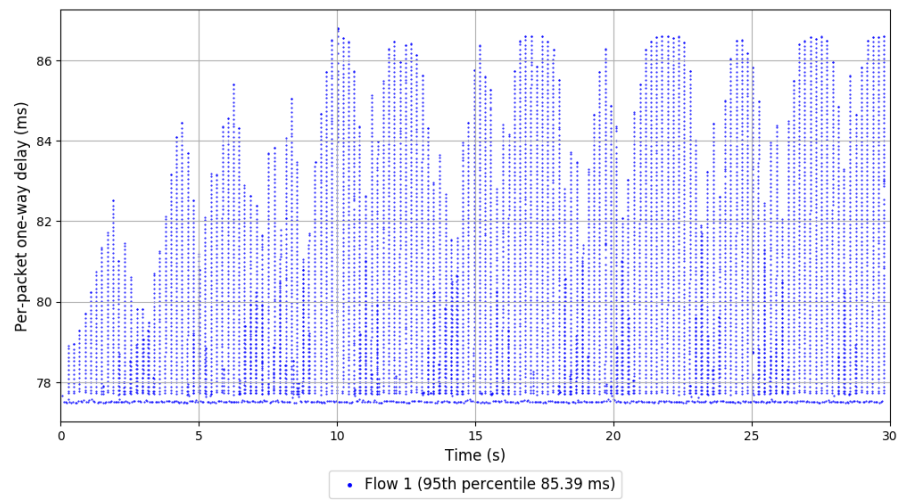
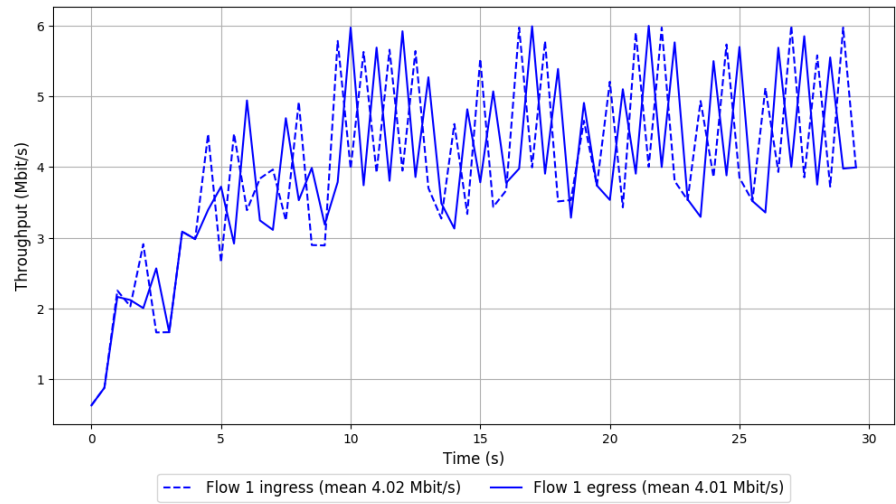


Run 5: Statistics of Sprout

Start at: 2018-04-17 03:03:16
End at: 2018-04-17 03:03:46
Local clock offset: -5.013 ms
Remote clock offset: 11.525 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 85.386 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 85.386 ms
Loss rate: 0.82%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-17 03:24:06

End at: 2018-04-17 03:24:36

Local clock offset: -5.164 ms

Remote clock offset: 5.195 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 92.114 ms

Loss rate: 0.94%

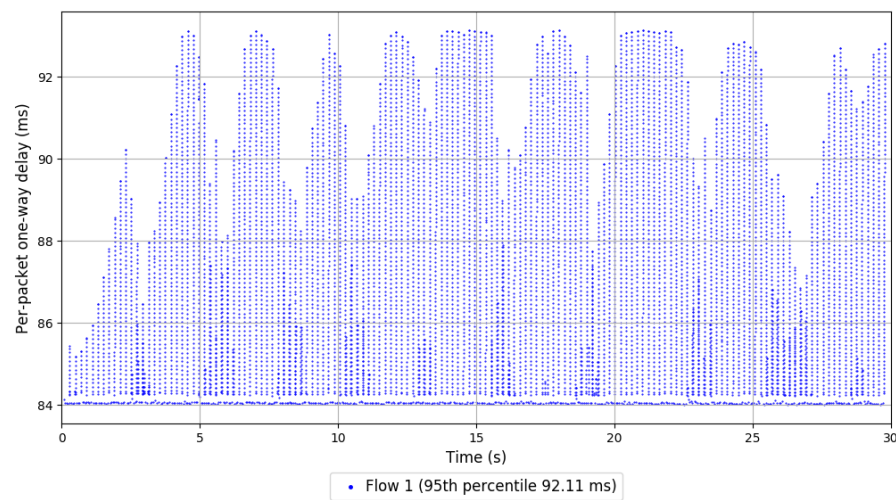
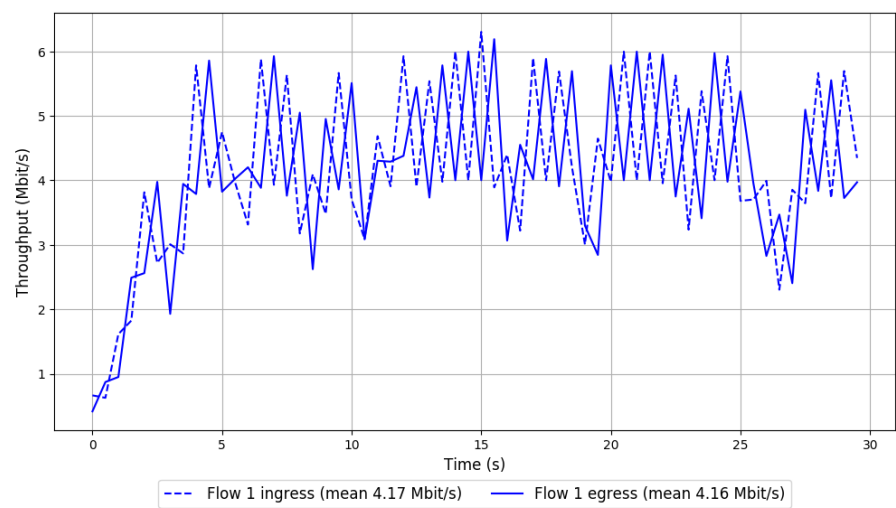
-- Flow 1:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 92.114 ms

Loss rate: 0.94%

Run 6: Report of Sprout — Data Link

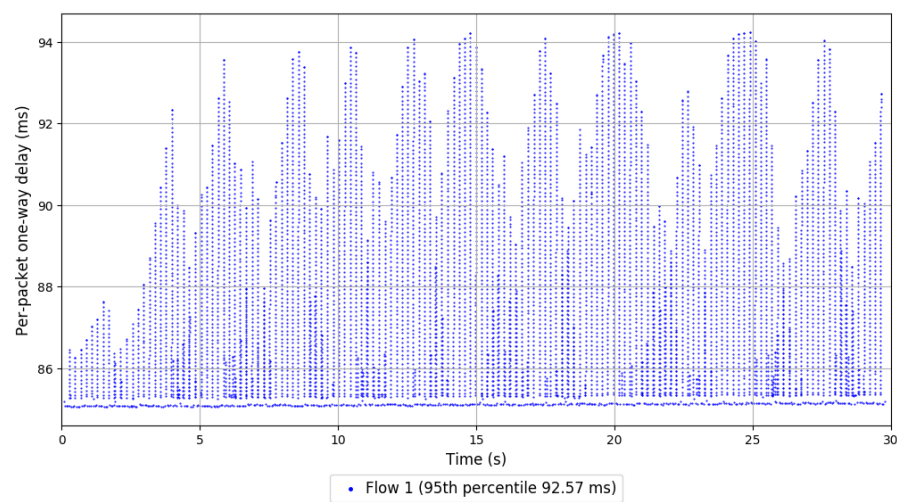
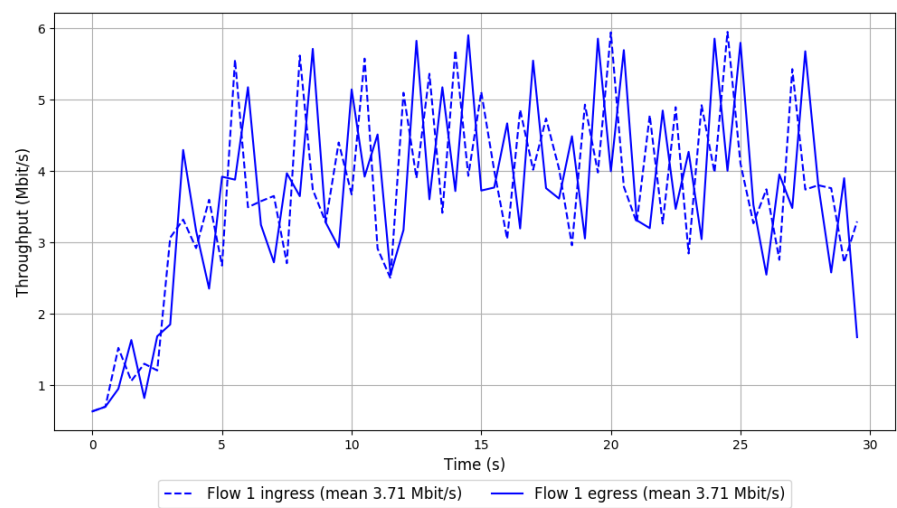


Run 7: Statistics of Sprout

Start at: 2018-04-17 03:44:58
End at: 2018-04-17 03:45:28
Local clock offset: -3.97 ms
Remote clock offset: 4.283 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 92.566 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 92.566 ms
Loss rate: 0.73%

Run 7: Report of Sprout — Data Link

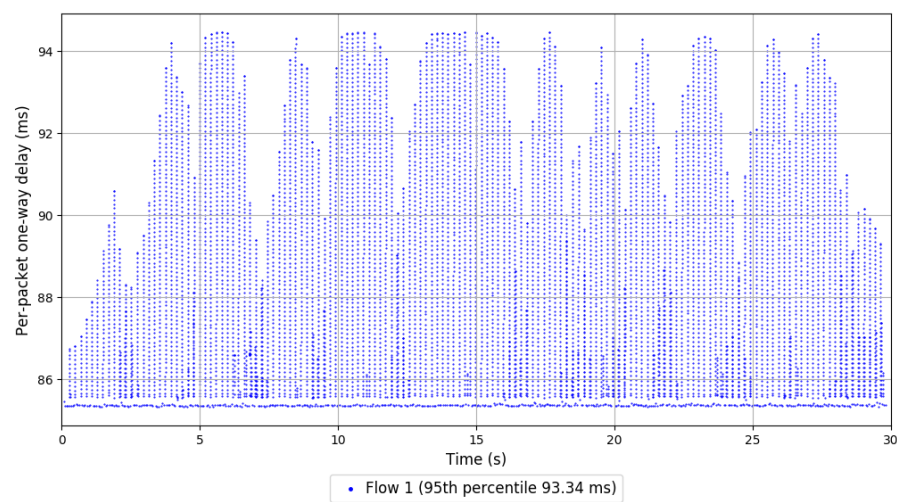
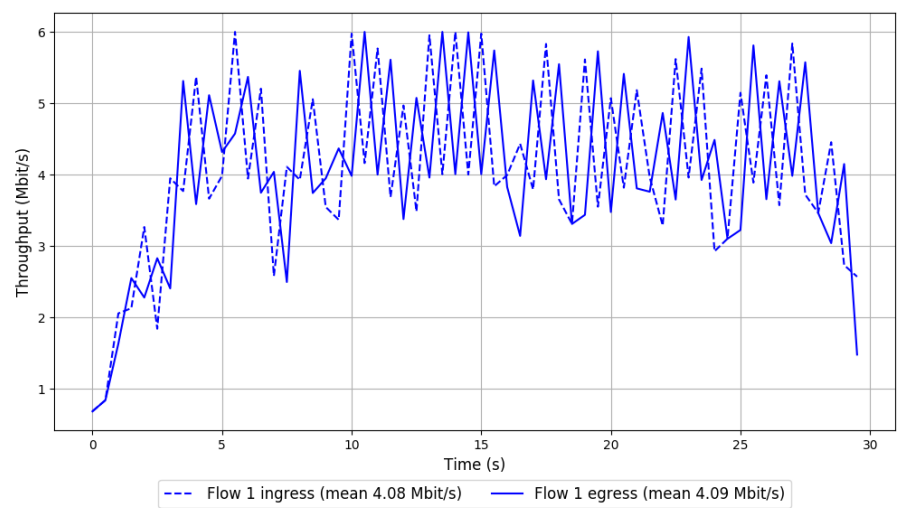


Run 8: Statistics of Sprout

Start at: 2018-04-17 04:05:53
End at: 2018-04-17 04:06:23
Local clock offset: -4.839 ms
Remote clock offset: 5.553 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 93.345 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 93.345 ms
Loss rate: 0.45%

Run 8: Report of Sprout — Data Link

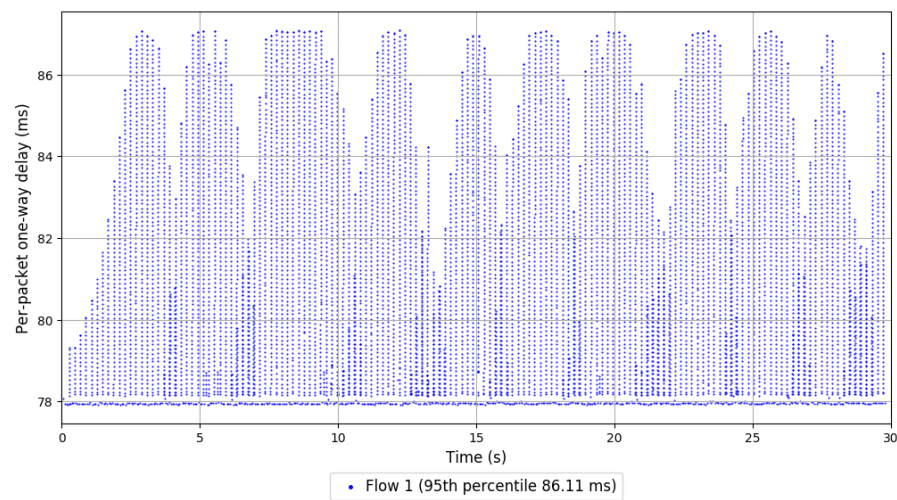
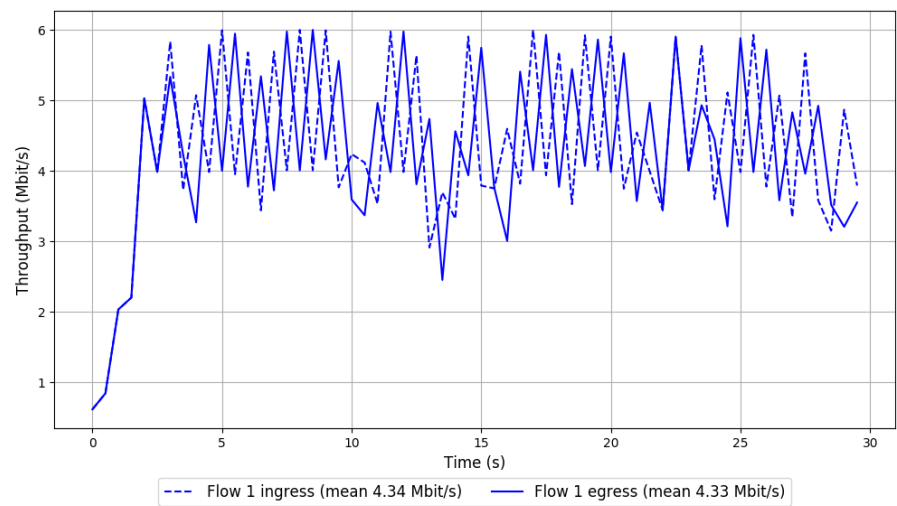


Run 9: Statistics of Sprout

Start at: 2018-04-17 04:26:50
End at: 2018-04-17 04:27:20
Local clock offset: -4.79 ms
Remote clock offset: 11.789 ms

Below is generated by plot.py at 2018-04-17 08:32:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 86.107 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 86.107 ms
Loss rate: 0.74%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

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

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

Local clock offset: -4.26 ms

Remote clock offset: 7.68 ms

Below is generated by plot.py at 2018-04-17 08:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 90.366 ms

Loss rate: 0.88%

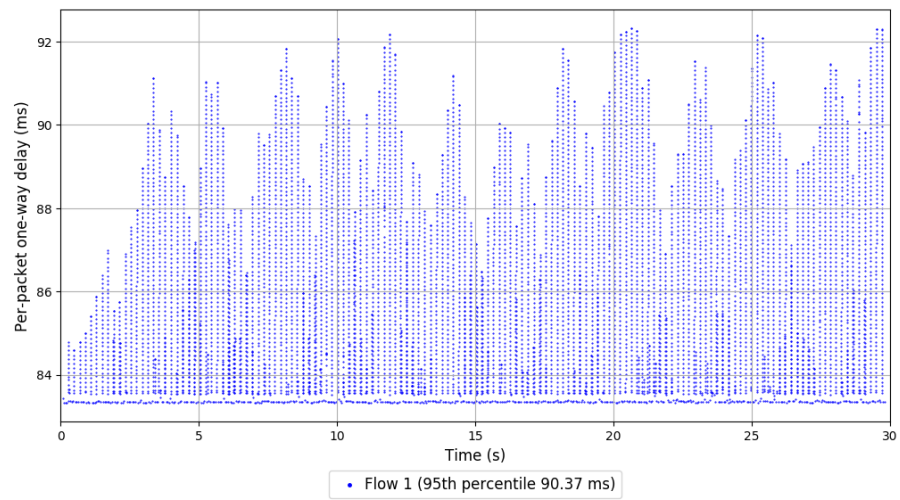
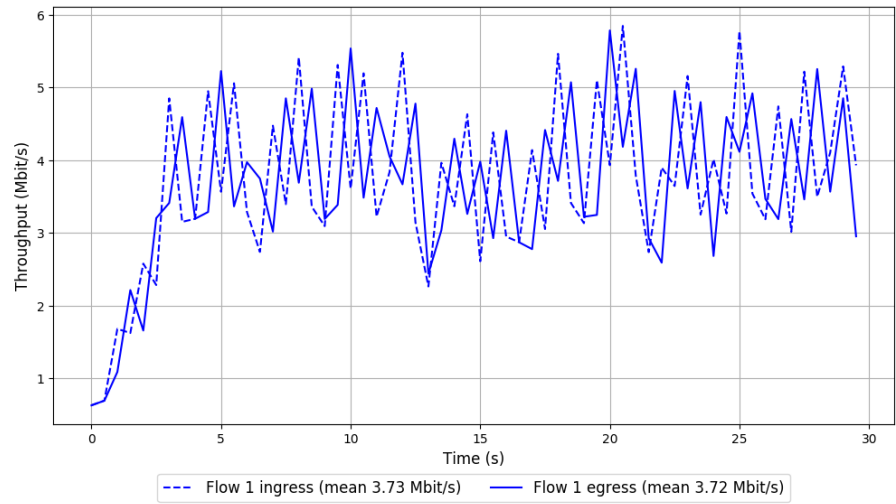
-- Flow 1:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 90.366 ms

Loss rate: 0.88%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 01:33:24

End at: 2018-04-17 01:33:54

Local clock offset: -6.296 ms

Remote clock offset: 5.568 ms

Below is generated by plot.py at 2018-04-17 08:33:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 94.713 ms

Loss rate: 0.59%

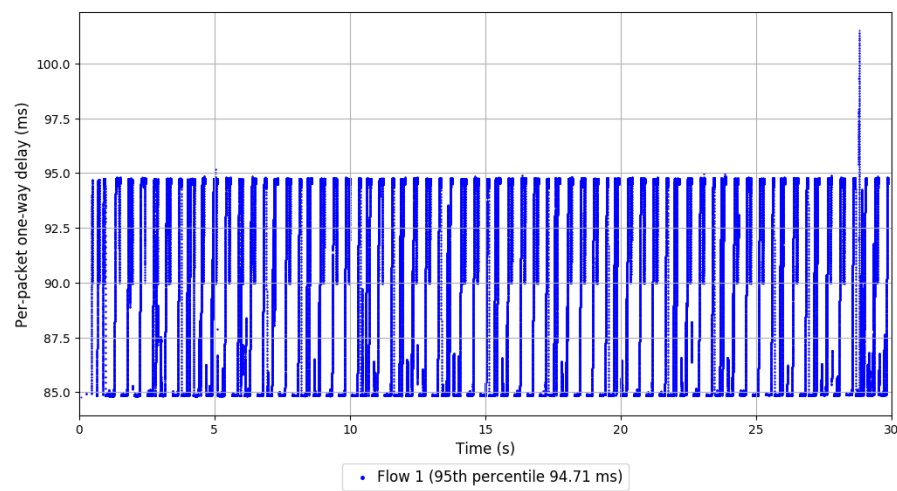
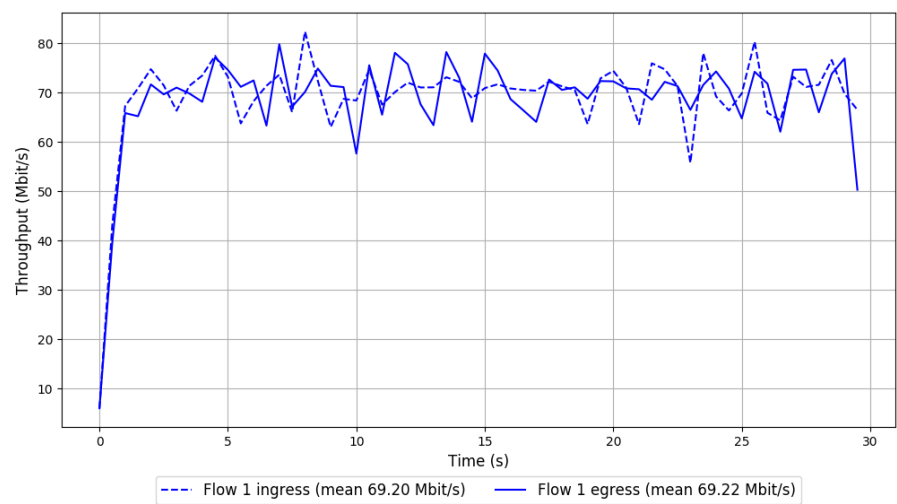
-- Flow 1:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 94.713 ms

Loss rate: 0.59%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 01:54:17

End at: 2018-04-17 01:54:47

Local clock offset: -5.472 ms

Remote clock offset: 7.146 ms

Below is generated by plot.py at 2018-04-17 08:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 92.948 ms

Loss rate: 0.85%

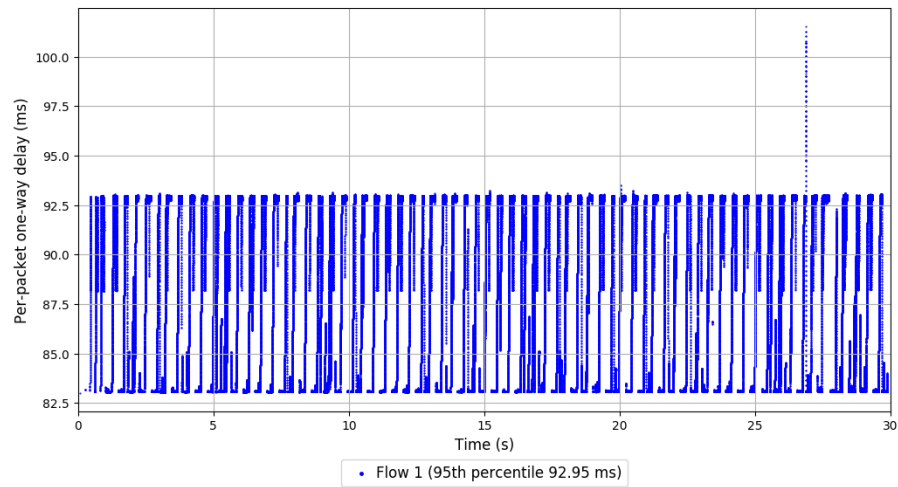
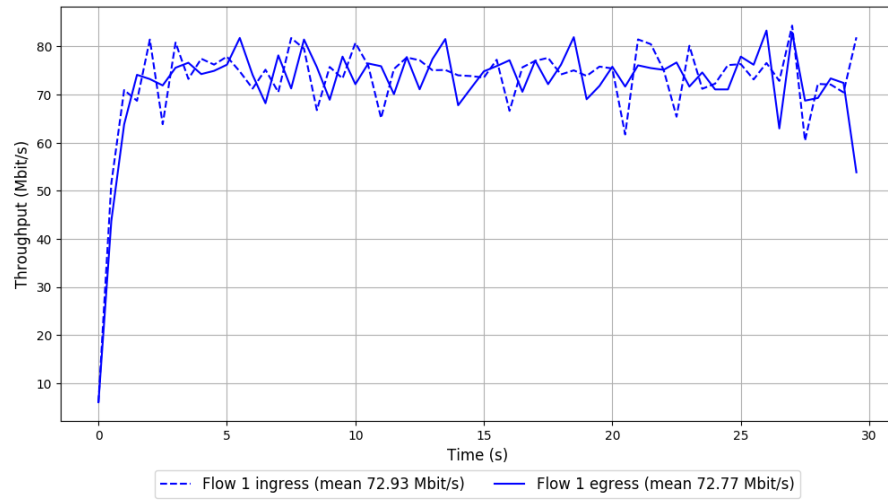
-- Flow 1:

Average throughput: 72.77 Mbit/s

95th percentile per-packet one-way delay: 92.948 ms

Loss rate: 0.85%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 02:15:09

End at: 2018-04-17 02:15:39

Local clock offset: -3.942 ms

Remote clock offset: 11.401 ms

Below is generated by plot.py at 2018-04-17 08:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 88.199 ms

Loss rate: 0.49%

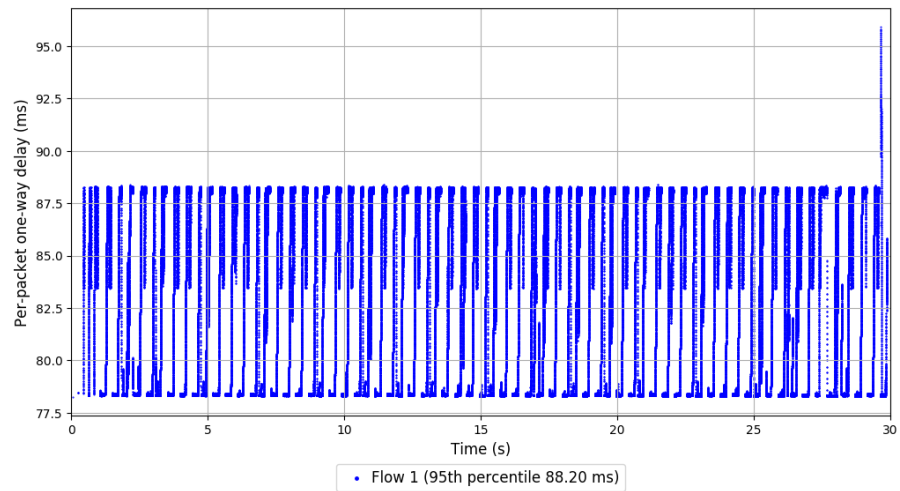
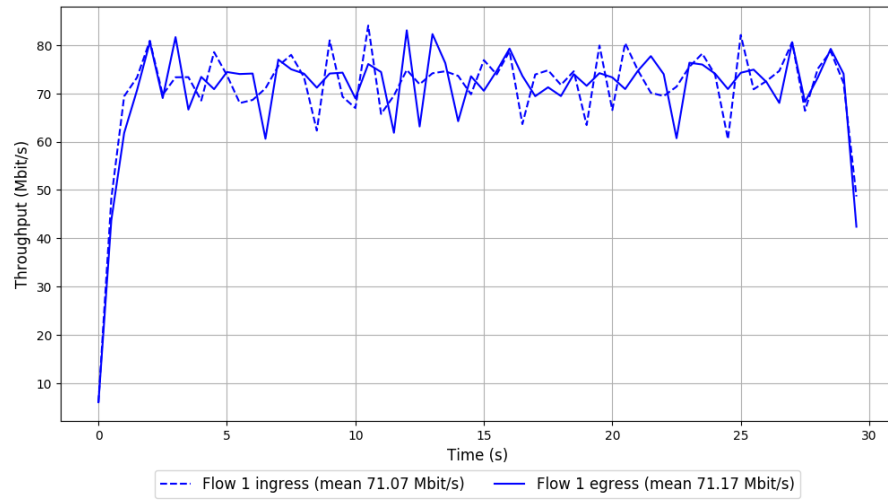
-- Flow 1:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 88.199 ms

Loss rate: 0.49%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 02:36:04

End at: 2018-04-17 02:36:34

Local clock offset: -3.567 ms

Remote clock offset: 6.509 ms

Below is generated by plot.py at 2018-04-17 08:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.70 Mbit/s

95th percentile per-packet one-way delay: 93.269 ms

Loss rate: 0.87%

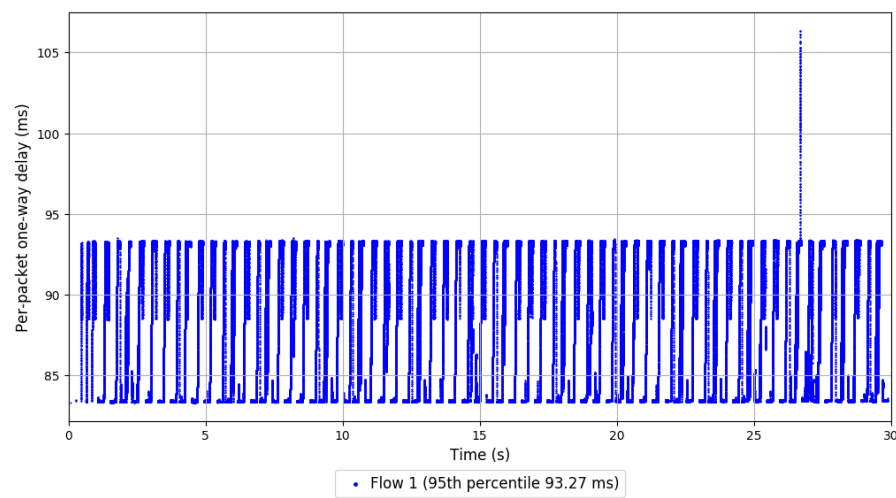
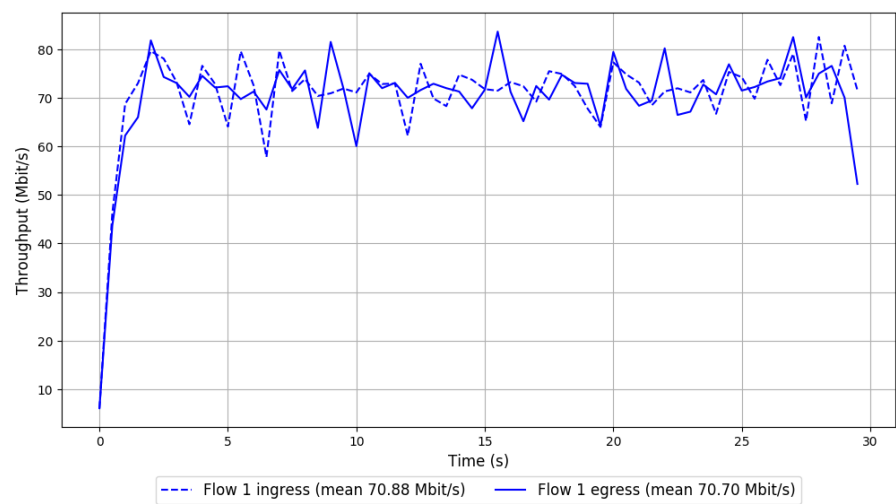
-- Flow 1:

Average throughput: 70.70 Mbit/s

95th percentile per-packet one-way delay: 93.269 ms

Loss rate: 0.87%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 02:56:58

End at: 2018-04-17 02:57:28

Local clock offset: -4.992 ms

Remote clock offset: 12.31 ms

Below is generated by plot.py at 2018-04-17 08:34:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 88.083 ms

Loss rate: 0.63%

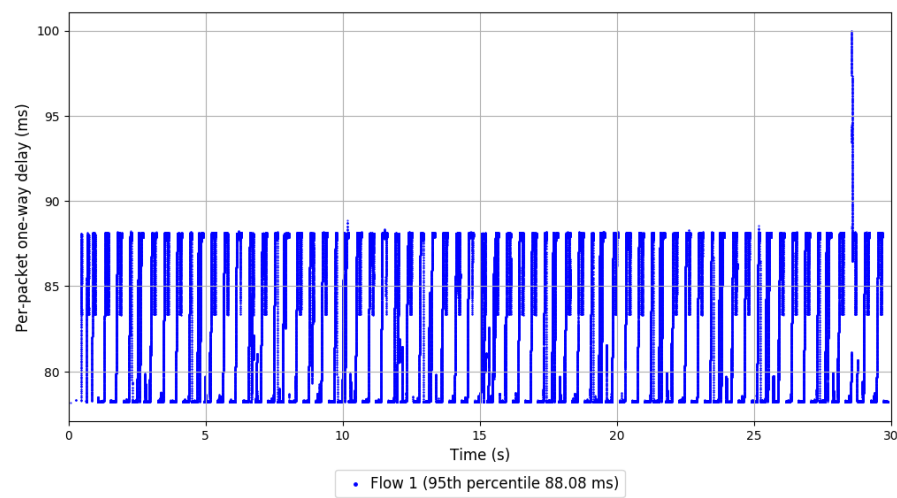
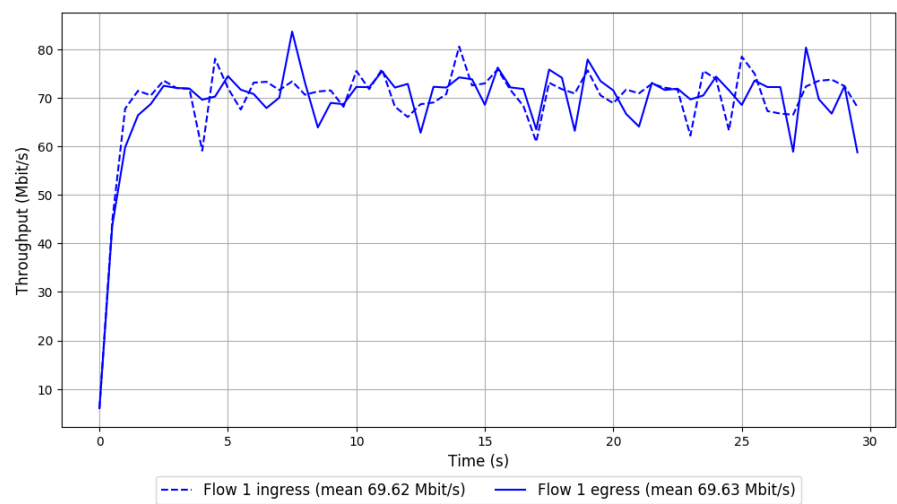
-- Flow 1:

Average throughput: 69.63 Mbit/s

95th percentile per-packet one-way delay: 88.083 ms

Loss rate: 0.63%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 03:17:48

End at: 2018-04-17 03:18:18

Local clock offset: -3.619 ms

Remote clock offset: 9.419 ms

Below is generated by plot.py at 2018-04-17 08:34:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 91.332 ms

Loss rate: 0.61%

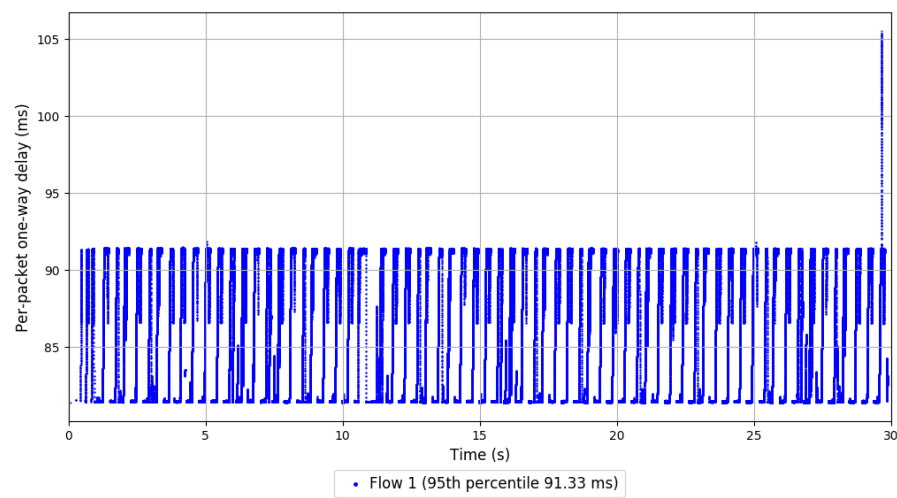
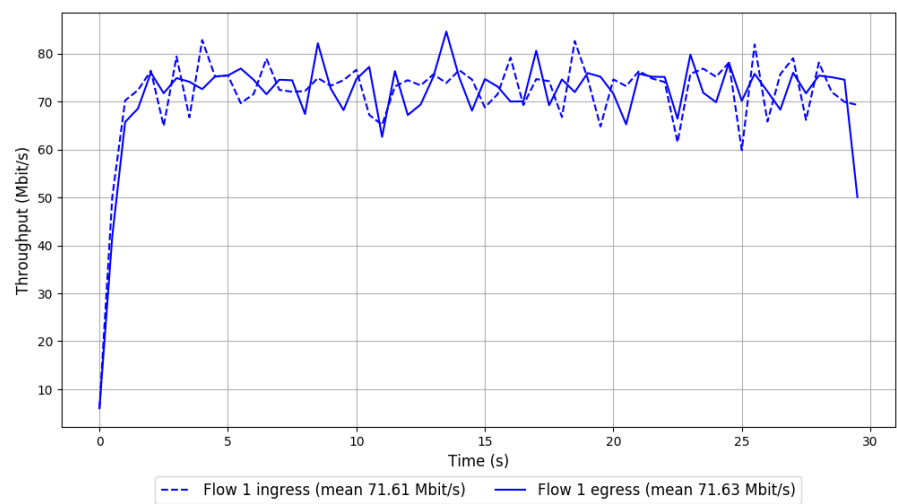
-- Flow 1:

Average throughput: 71.63 Mbit/s

95th percentile per-packet one-way delay: 91.332 ms

Loss rate: 0.61%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 03:38:38

End at: 2018-04-17 03:39:08

Local clock offset: -4.365 ms

Remote clock offset: 4.861 ms

Below is generated by plot.py at 2018-04-17 08:34:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 94.553 ms

Loss rate: 8.23%

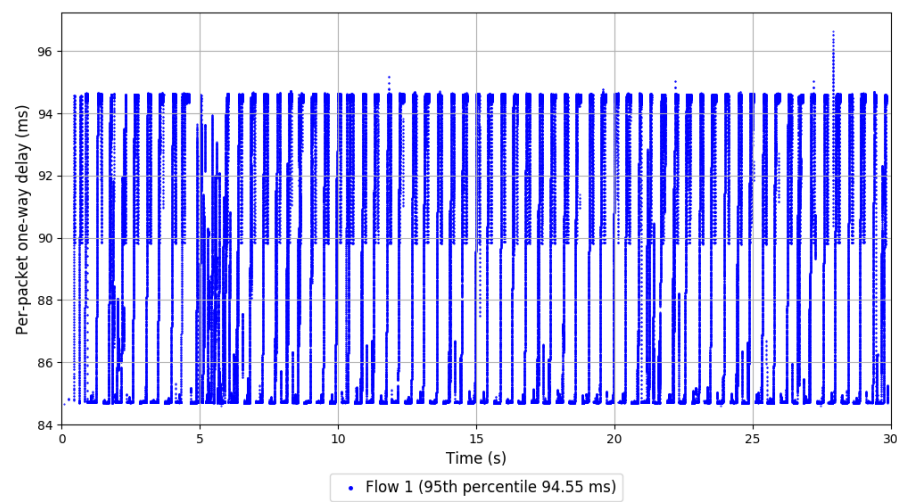
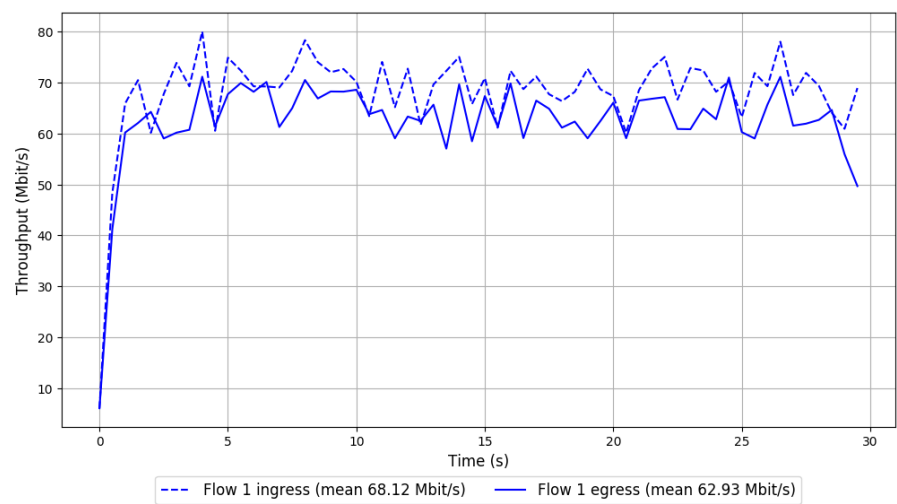
-- Flow 1:

Average throughput: 62.93 Mbit/s

95th percentile per-packet one-way delay: 94.553 ms

Loss rate: 8.23%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 03:59:32

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

Local clock offset: -6.321 ms

Remote clock offset: 9.546 ms

Below is generated by plot.py at 2018-04-17 08:34:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.16 Mbit/s

95th percentile per-packet one-way delay: 87.786 ms

Loss rate: 0.82%

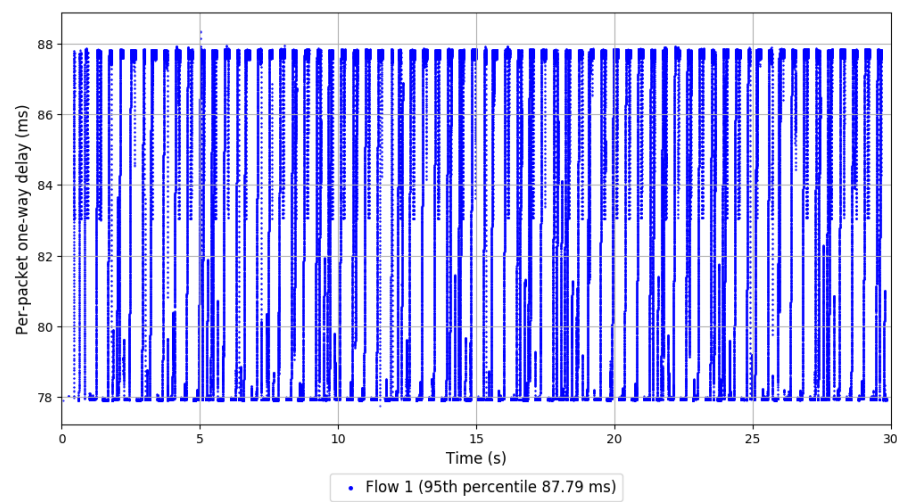
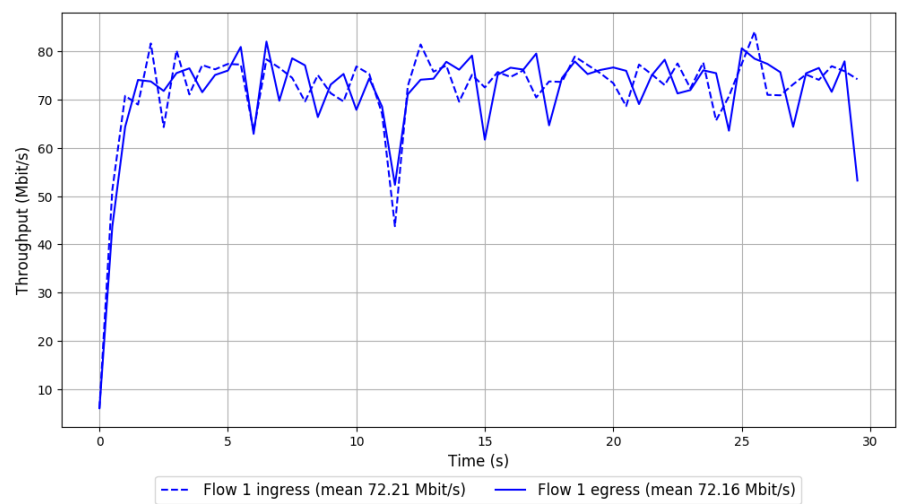
-- Flow 1:

Average throughput: 72.16 Mbit/s

95th percentile per-packet one-way delay: 87.786 ms

Loss rate: 0.82%

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

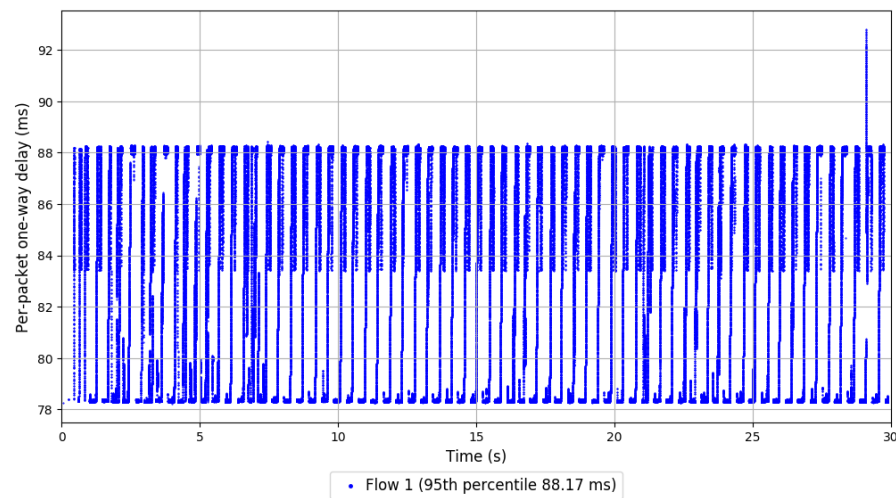
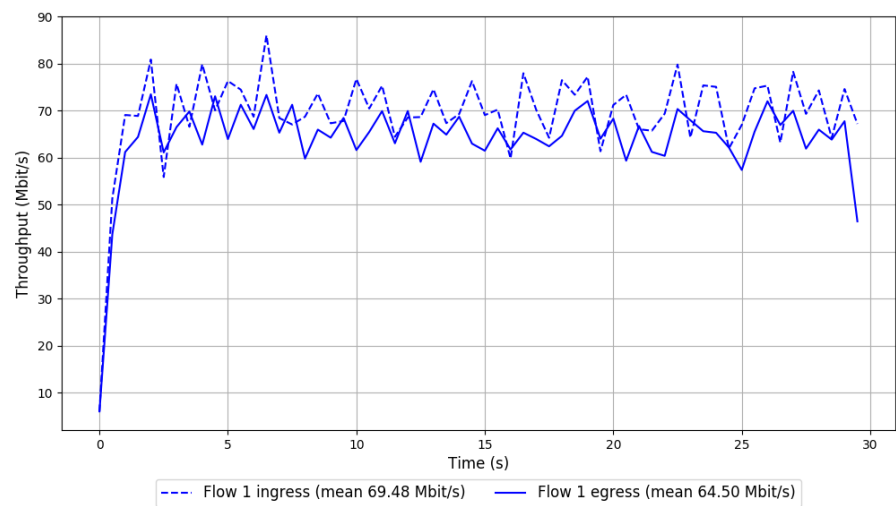


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 04:20:27
End at: 2018-04-17 04:20:57
Local clock offset: -5.269 ms
Remote clock offset: 11.216 ms

Below is generated by plot.py at 2018-04-17 08:35:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.50 Mbit/s
95th percentile per-packet one-way delay: 88.174 ms
Loss rate: 7.75%
-- Flow 1:
Average throughput: 64.50 Mbit/s
95th percentile per-packet one-way delay: 88.174 ms
Loss rate: 7.75%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 04:41:26

End at: 2018-04-17 04:41:56

Local clock offset: -4.354 ms

Remote clock offset: 6.628 ms

Below is generated by plot.py at 2018-04-17 08:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.91 Mbit/s

95th percentile per-packet one-way delay: 94.230 ms

Loss rate: 0.78%

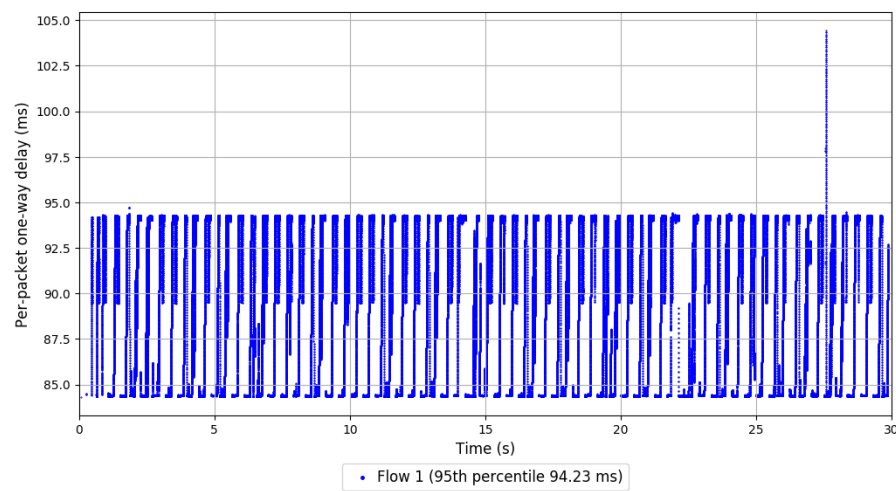
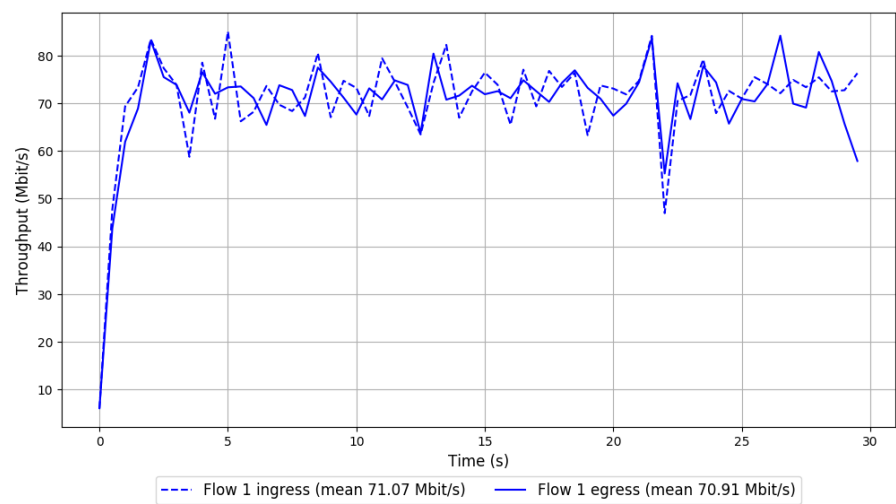
-- Flow 1:

Average throughput: 70.91 Mbit/s

95th percentile per-packet one-way delay: 94.230 ms

Loss rate: 0.78%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 01:27:21

End at: 2018-04-17 01:27:51

Local clock offset: -5.655 ms

Remote clock offset: 6.023 ms

Below is generated by plot.py at 2018-04-17 08:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.77 Mbit/s

95th percentile per-packet one-way delay: 83.387 ms

Loss rate: 0.88%

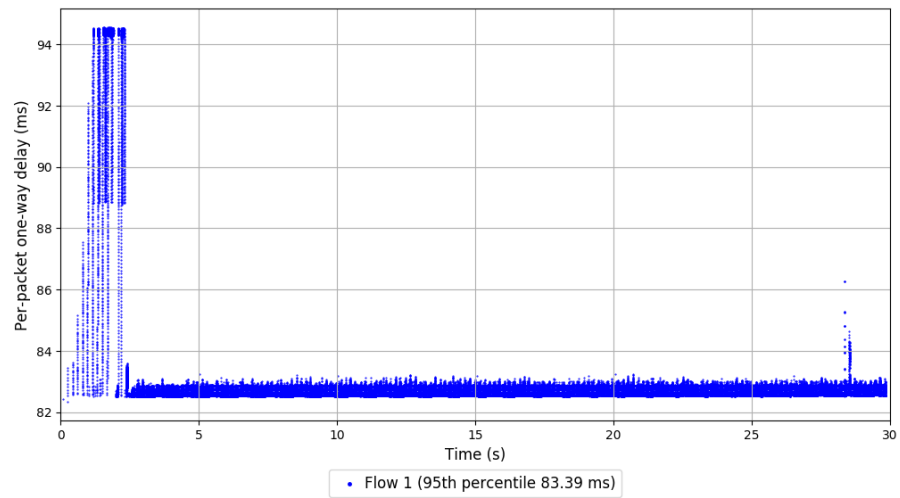
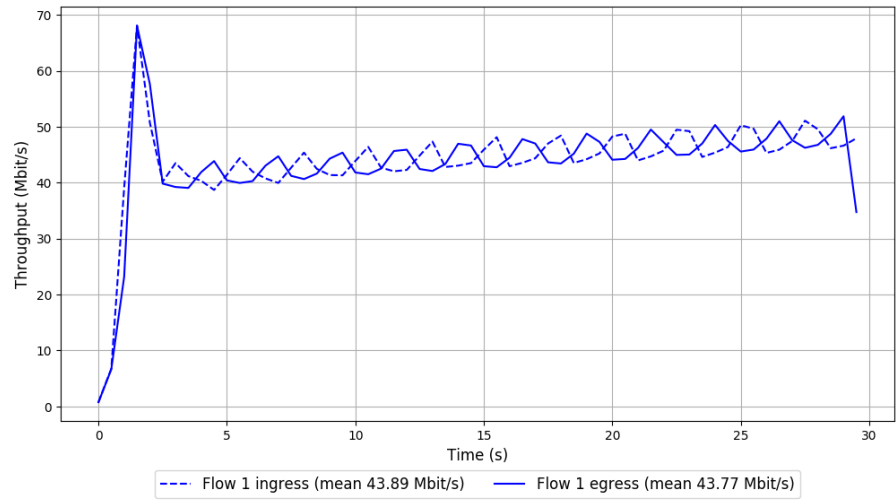
-- Flow 1:

Average throughput: 43.77 Mbit/s

95th percentile per-packet one-way delay: 83.387 ms

Loss rate: 0.88%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 01:48:14

End at: 2018-04-17 01:48:44

Local clock offset: -5.474 ms

Remote clock offset: 7.047 ms

Below is generated by plot.py at 2018-04-17 08:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.40 Mbit/s

95th percentile per-packet one-way delay: 83.876 ms

Loss rate: 0.70%

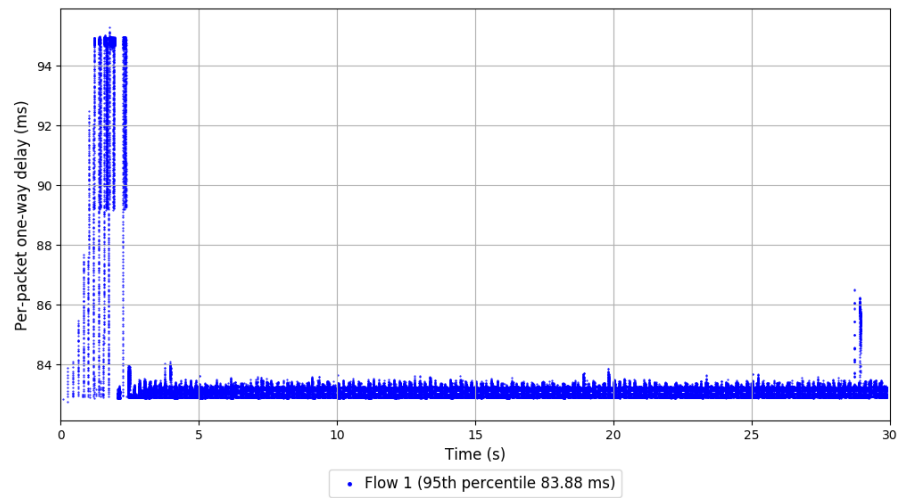
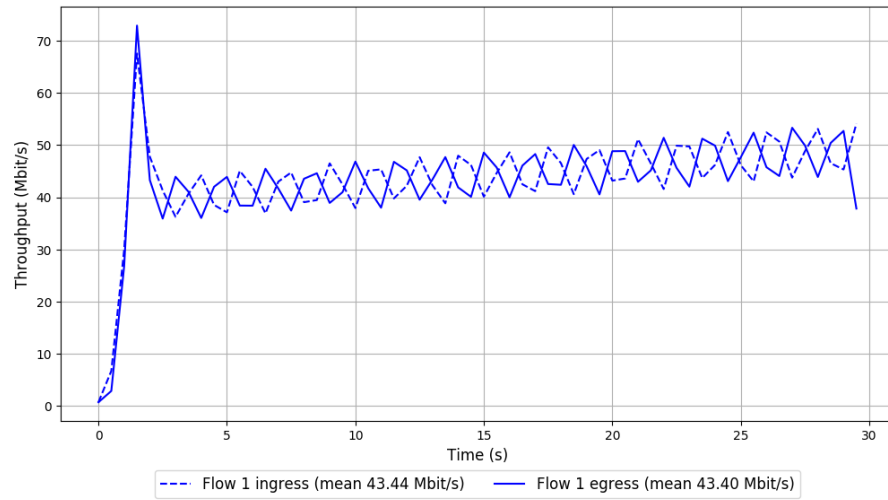
-- Flow 1:

Average throughput: 43.40 Mbit/s

95th percentile per-packet one-way delay: 83.876 ms

Loss rate: 0.70%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 02:09:06

End at: 2018-04-17 02:09:36

Local clock offset: -5.139 ms

Remote clock offset: 5.797 ms

Below is generated by plot.py at 2018-04-17 08:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.94 Mbit/s

95th percentile per-packet one-way delay: 84.222 ms

Loss rate: 0.68%

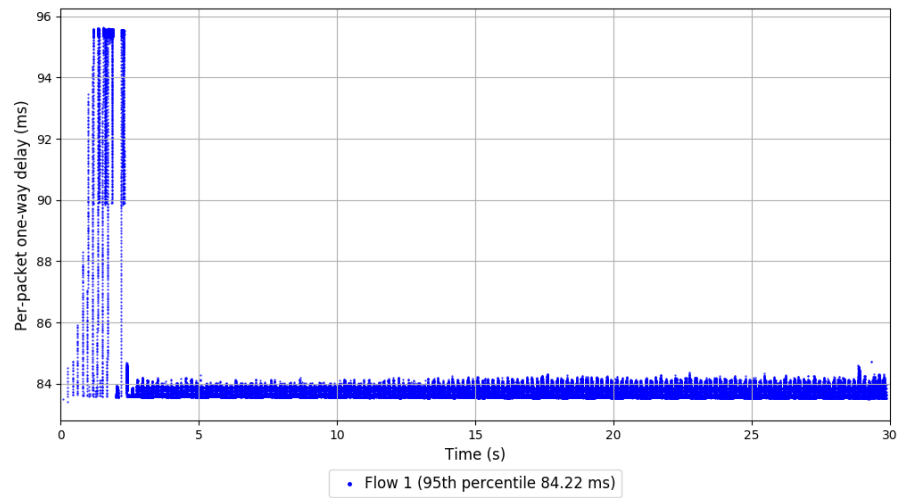
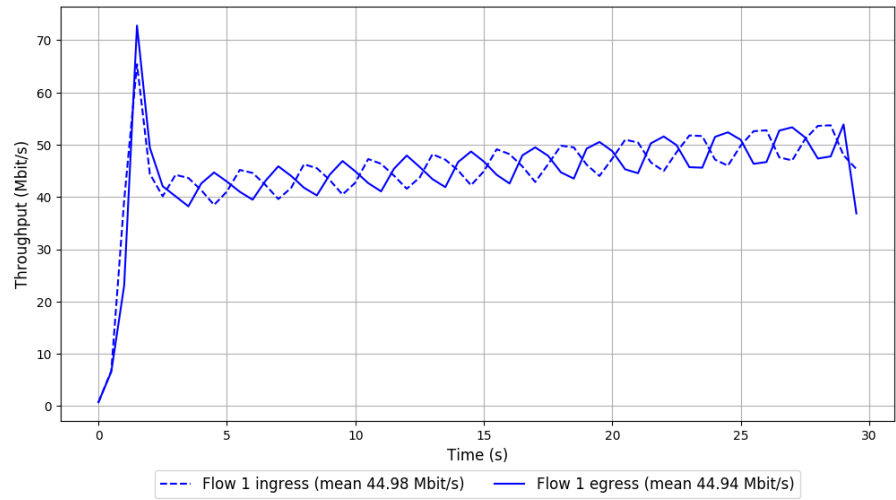
-- Flow 1:

Average throughput: 44.94 Mbit/s

95th percentile per-packet one-way delay: 84.222 ms

Loss rate: 0.68%

Run 3: Report of TCP Vegas — Data Link

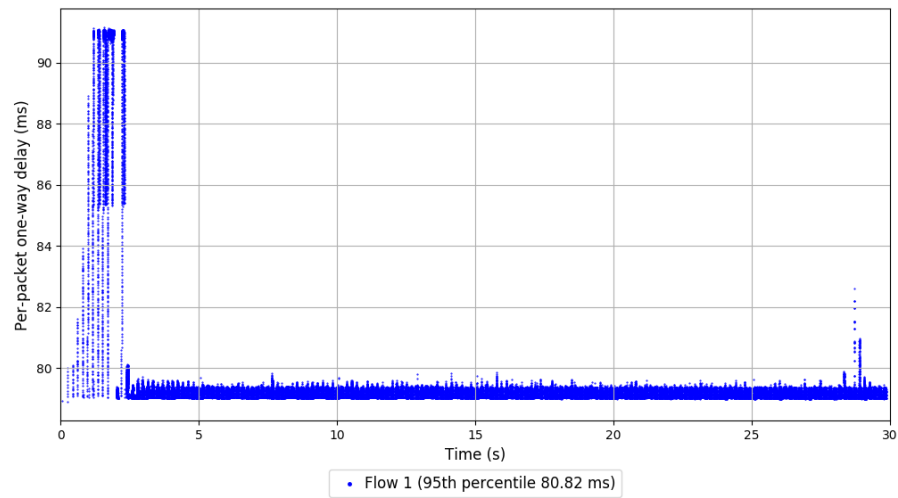
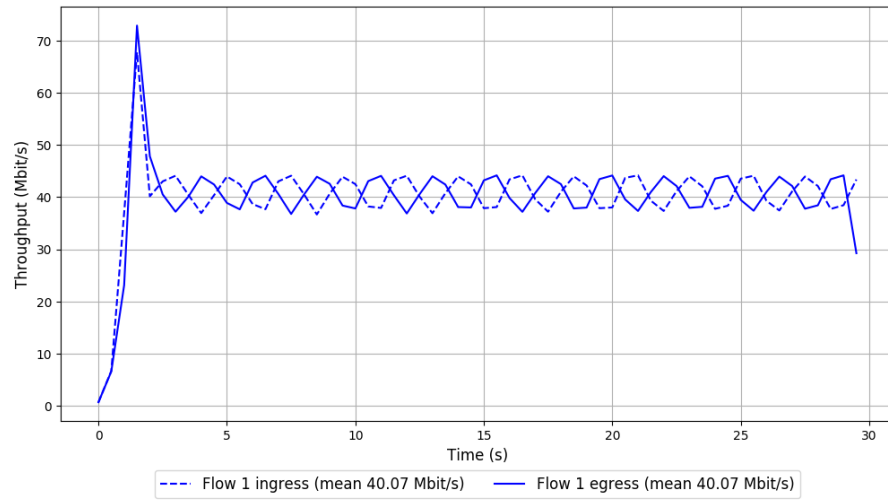


Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 02:30:01
End at: 2018-04-17 02:30:31
Local clock offset: -2.639 ms
Remote clock offset: 11.385 ms

Below is generated by plot.py at 2018-04-17 08:35:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 80.824 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 80.824 ms
Loss rate: 0.61%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 02:50:54

End at: 2018-04-17 02:51:24

Local clock offset: -4.189 ms

Remote clock offset: 5.791 ms

Below is generated by plot.py at 2018-04-17 08:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.35 Mbit/s

95th percentile per-packet one-way delay: 84.424 ms

Loss rate: 0.68%

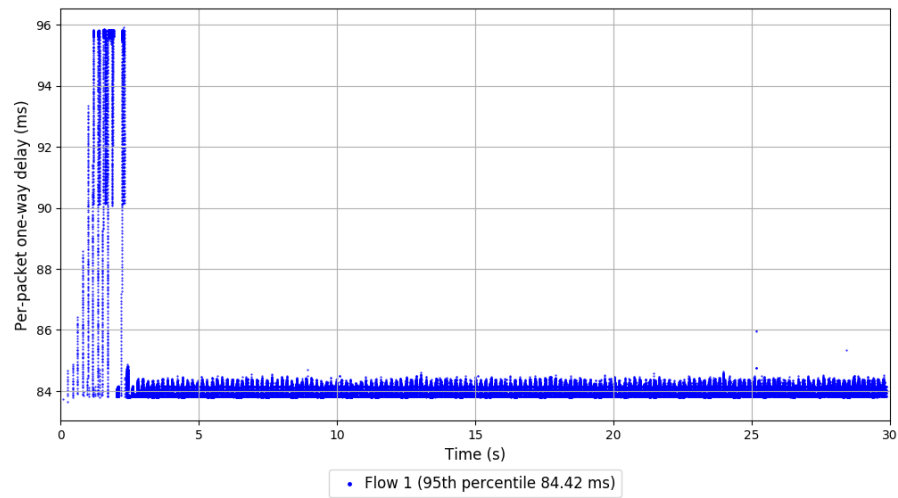
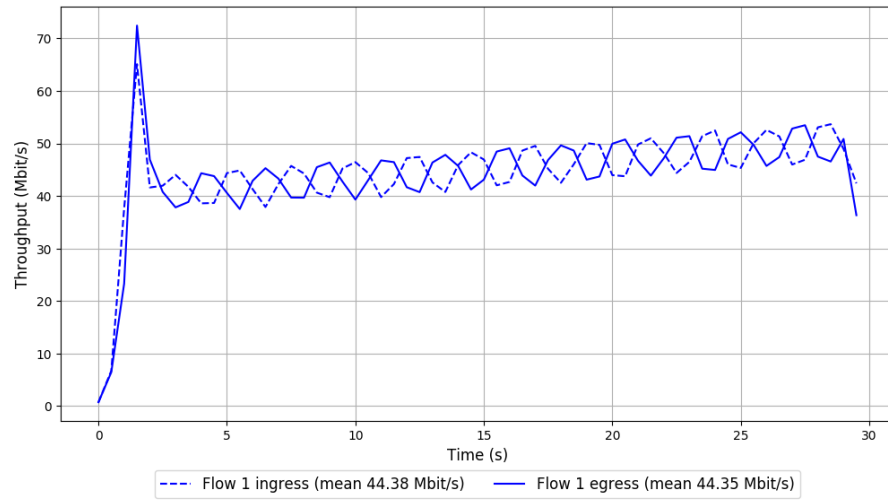
-- Flow 1:

Average throughput: 44.35 Mbit/s

95th percentile per-packet one-way delay: 84.424 ms

Loss rate: 0.68%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 03:11:45

End at: 2018-04-17 03:12:15

Local clock offset: -5.067 ms

Remote clock offset: 6.02 ms

Below is generated by plot.py at 2018-04-17 08:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 83.036 ms

Loss rate: 0.70%

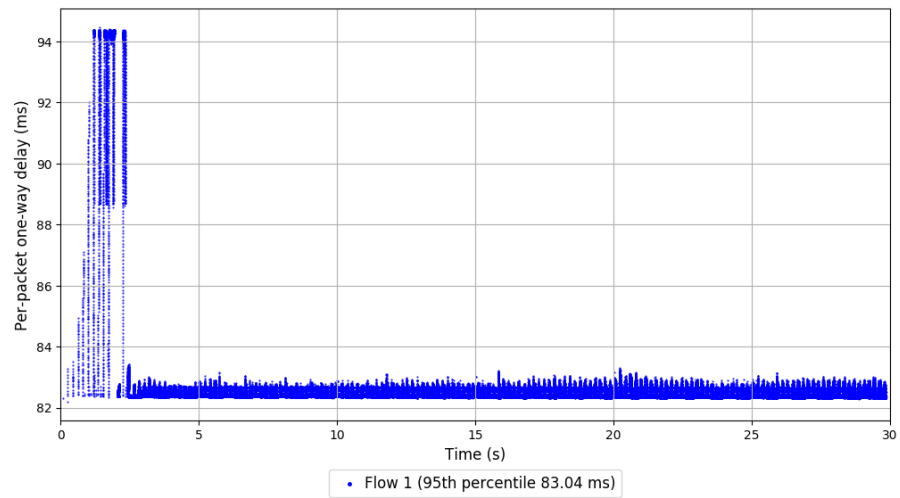
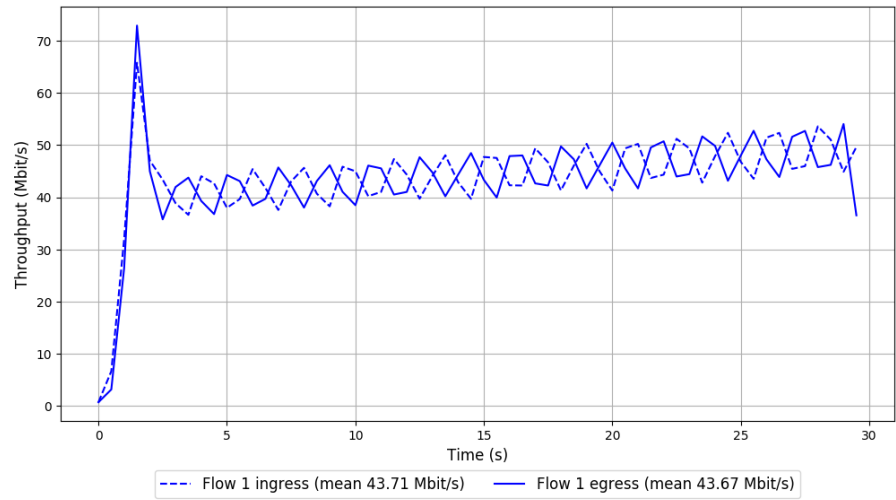
-- Flow 1:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 83.036 ms

Loss rate: 0.70%

Run 6: Report of TCP Vegas — Data Link

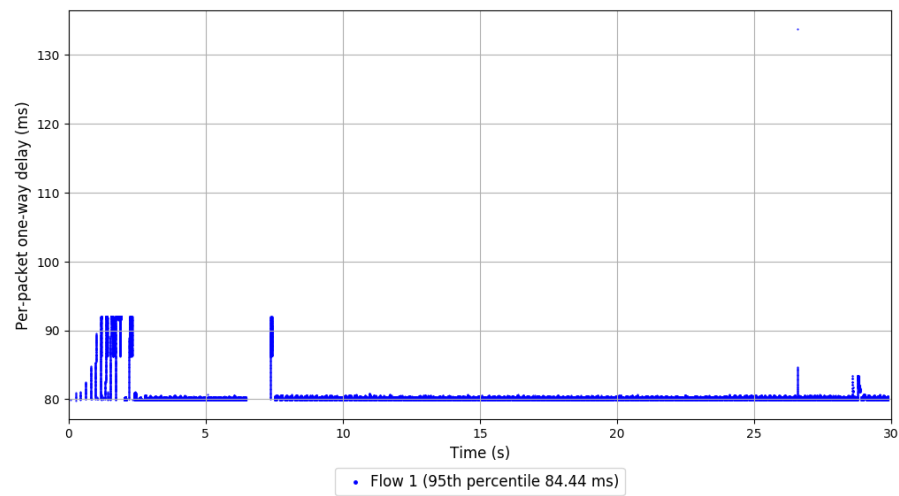
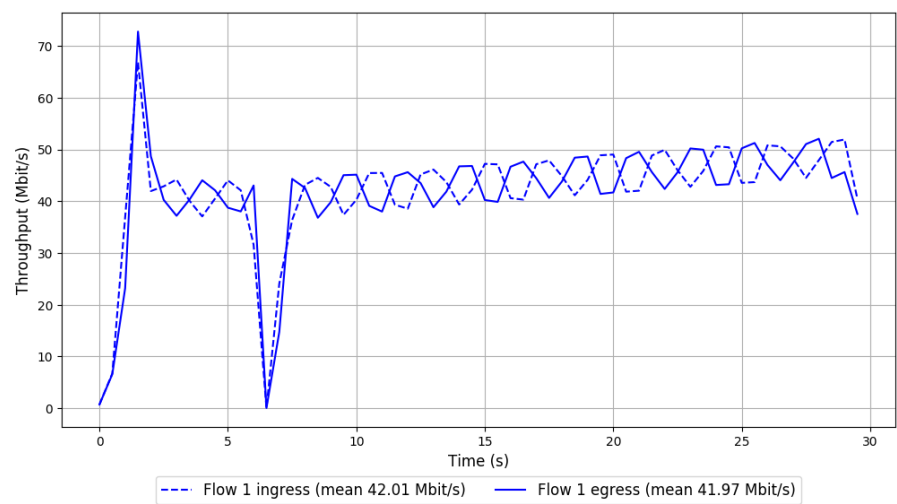


Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 03:32:35
End at: 2018-04-17 03:33:05
Local clock offset: -4.464 ms
Remote clock offset: 9.777 ms

Below is generated by plot.py at 2018-04-17 08:35:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.97 Mbit/s
95th percentile per-packet one-way delay: 84.440 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 41.97 Mbit/s
95th percentile per-packet one-way delay: 84.440 ms
Loss rate: 0.70%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 03:53:29

End at: 2018-04-17 03:53:59

Local clock offset: -5.252 ms

Remote clock offset: 11.12 ms

Below is generated by plot.py at 2018-04-17 08:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 80.019 ms

Loss rate: 0.68%

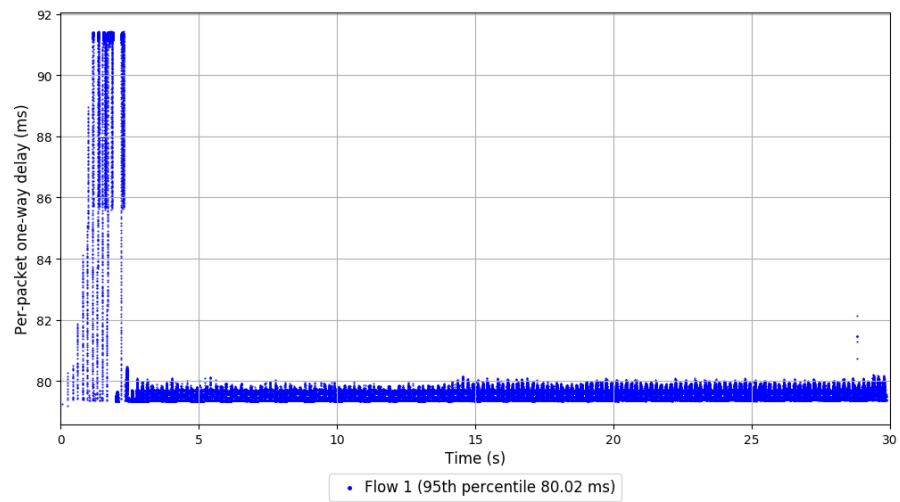
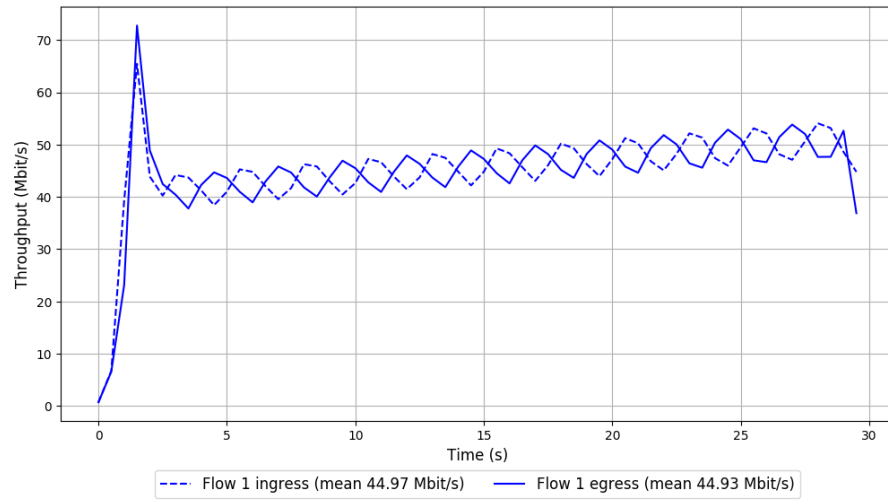
-- Flow 1:

Average throughput: 44.93 Mbit/s

95th percentile per-packet one-way delay: 80.019 ms

Loss rate: 0.68%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 04:14:23

End at: 2018-04-17 04:14:53

Local clock offset: -6.478 ms

Remote clock offset: 5.566 ms

Below is generated by plot.py at 2018-04-17 08:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.63 Mbit/s

95th percentile per-packet one-way delay: 83.242 ms

Loss rate: 0.68%

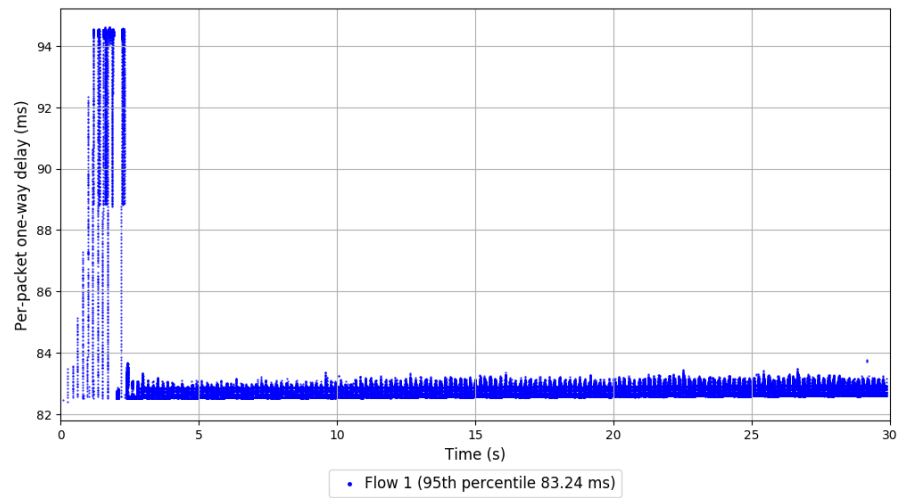
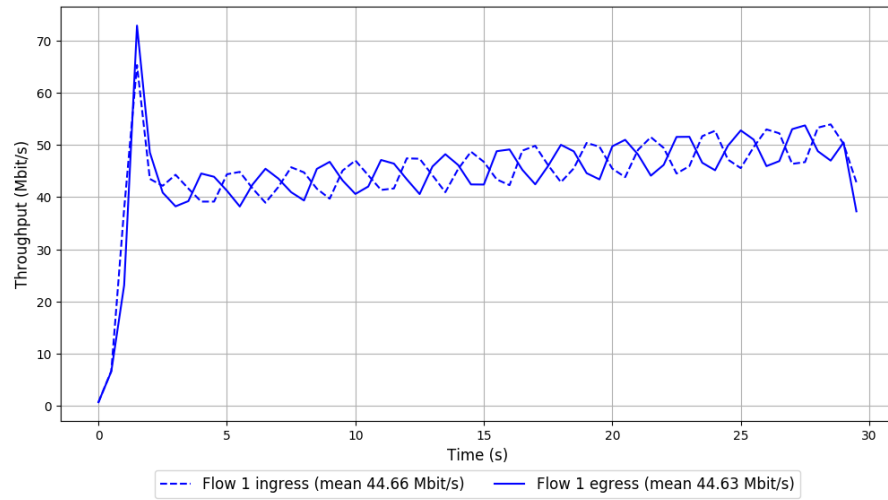
-- Flow 1:

Average throughput: 44.63 Mbit/s

95th percentile per-packet one-way delay: 83.242 ms

Loss rate: 0.68%

Run 9: Report of TCP Vegas — Data Link

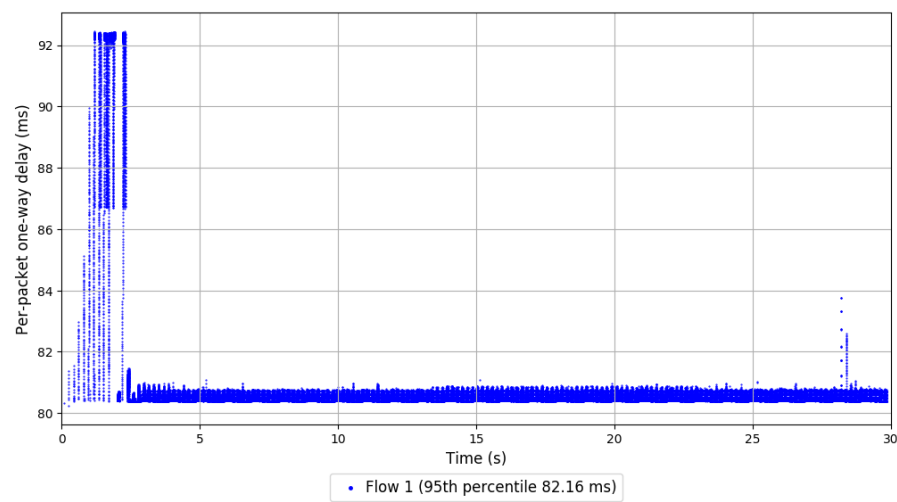
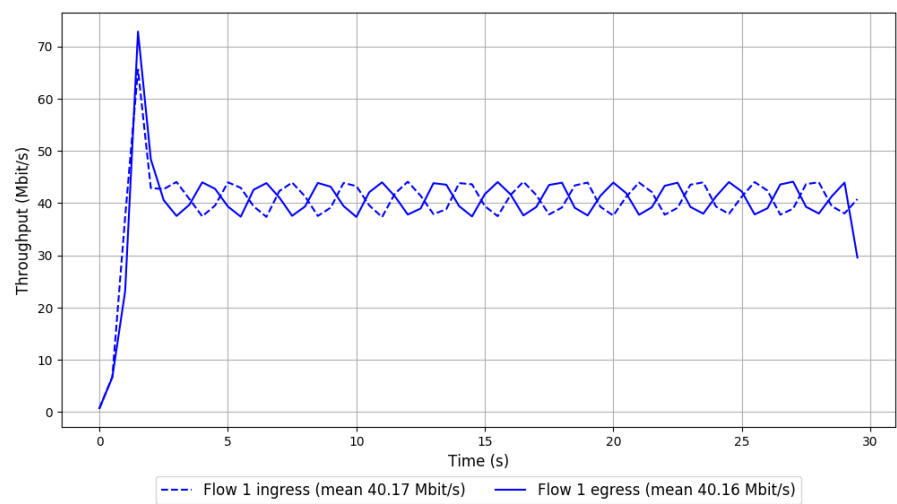


Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 04:35:22
End at: 2018-04-17 04:35:52
Local clock offset: -4.461 ms
Remote clock offset: 12.133 ms

Below is generated by plot.py at 2018-04-17 08:35:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 82.164 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 40.16 Mbit/s
95th percentile per-packet one-way delay: 82.164 ms
Loss rate: 0.61%

Run 10: Report of TCP Vegas — Data Link

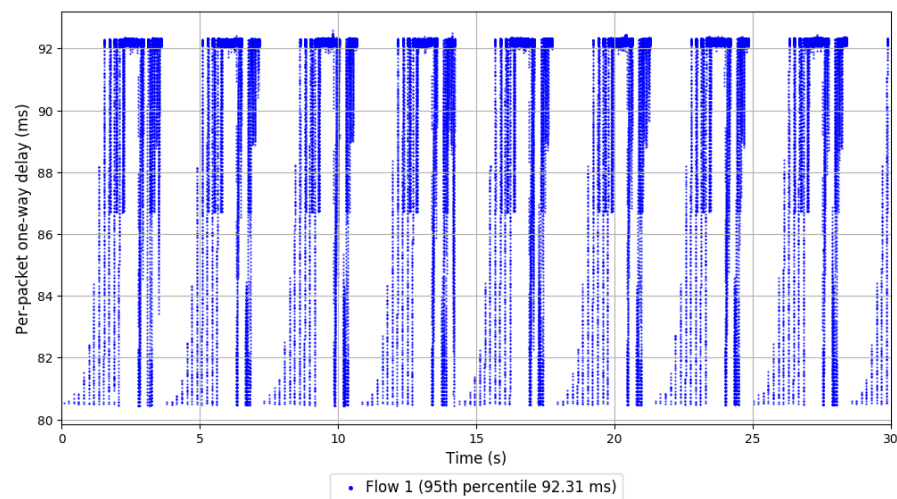
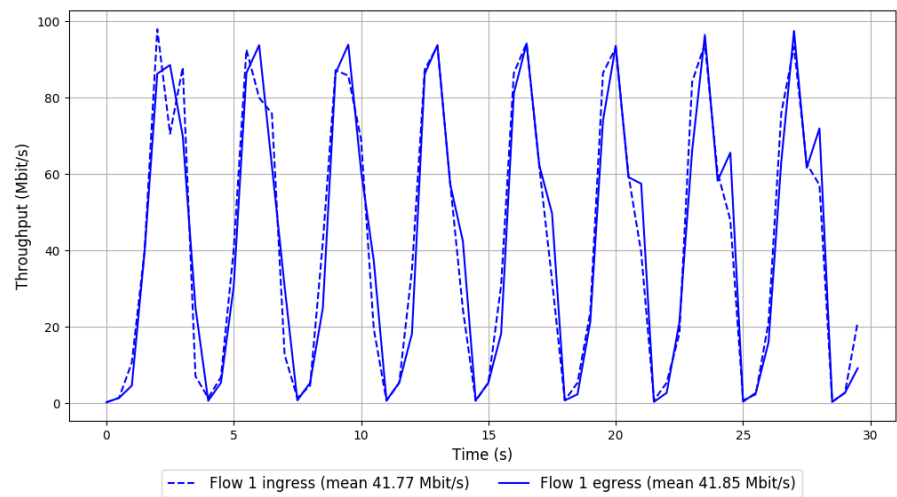


Run 1: Statistics of Verus

Start at: 2018-04-17 01:29:45
End at: 2018-04-17 01:30:15
Local clock offset: -5.534 ms
Remote clock offset: 10.187 ms

Below is generated by plot.py at 2018-04-17 08:35:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.85 Mbit/s
95th percentile per-packet one-way delay: 92.308 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 41.85 Mbit/s
95th percentile per-packet one-way delay: 92.308 ms
Loss rate: 0.48%

Run 1: Report of Verus — Data Link

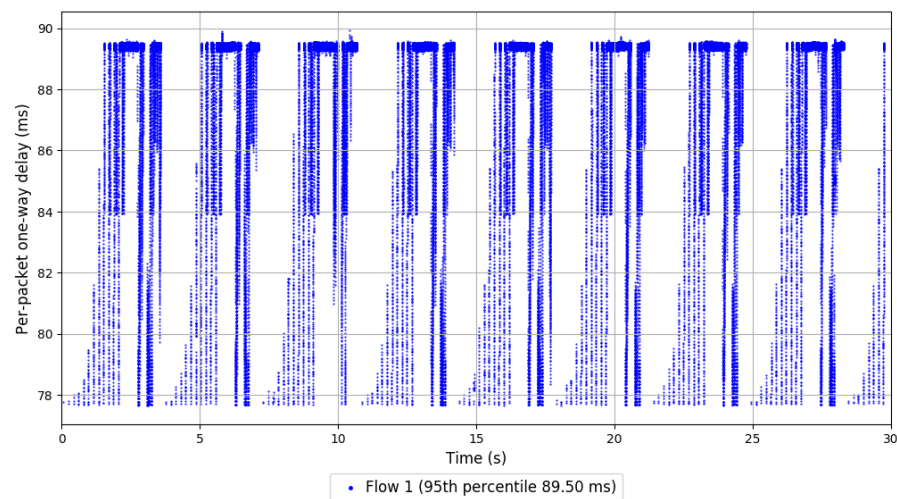
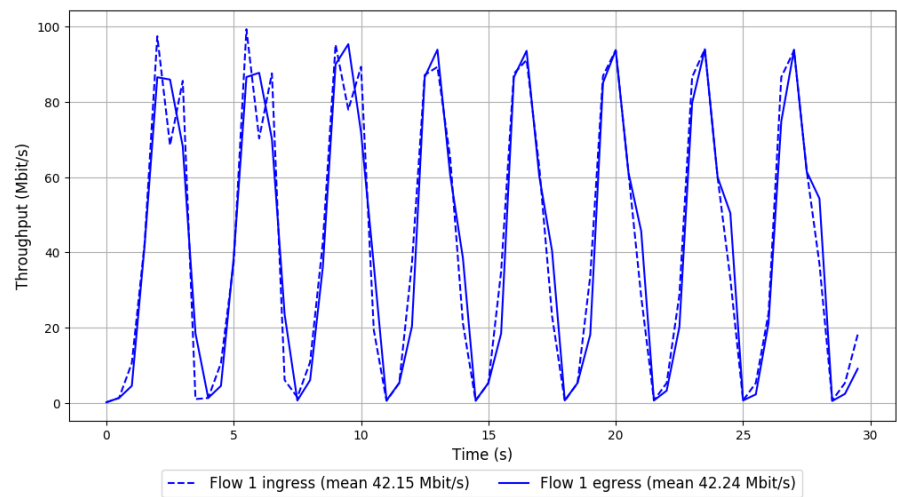


Run 2: Statistics of Verus

Start at: 2018-04-17 01:50:38
End at: 2018-04-17 01:51:08
Local clock offset: -6.287 ms
Remote clock offset: 11.844 ms

Below is generated by plot.py at 2018-04-17 08:35:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.24 Mbit/s
95th percentile per-packet one-way delay: 89.505 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 42.24 Mbit/s
95th percentile per-packet one-way delay: 89.505 ms
Loss rate: 0.48%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-17 02:11:30

End at: 2018-04-17 02:12:00

Local clock offset: -4.166 ms

Remote clock offset: 5.826 ms

Below is generated by plot.py at 2018-04-17 08:35:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.46 Mbit/s

95th percentile per-packet one-way delay: 97.202 ms

Loss rate: 0.07%

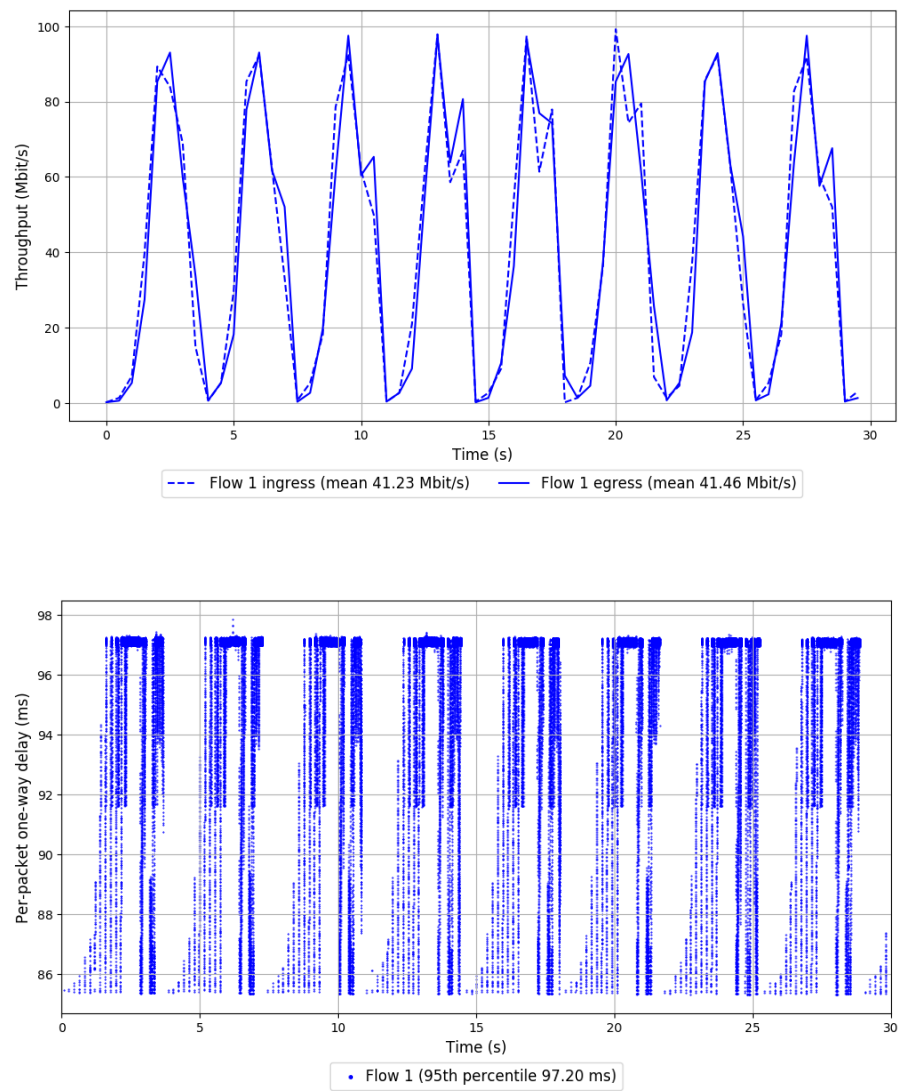
-- Flow 1:

Average throughput: 41.46 Mbit/s

95th percentile per-packet one-way delay: 97.202 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link

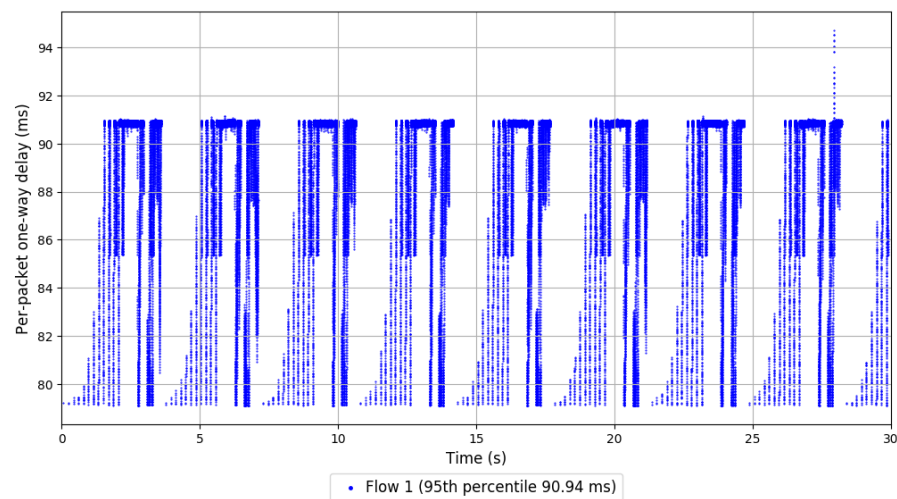
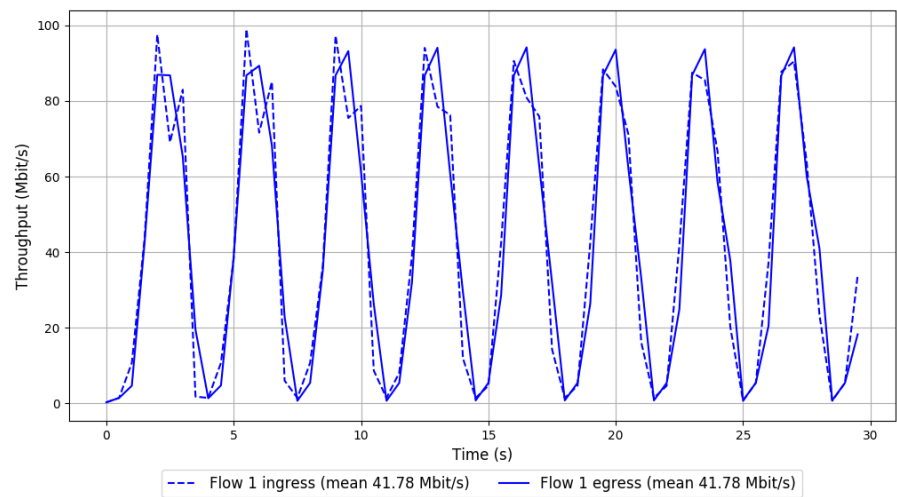


Run 4: Statistics of Verus

Start at: 2018-04-17 02:32:25
End at: 2018-04-17 02:32:55
Local clock offset: -2.565 ms
Remote clock offset: 11.303 ms

Below is generated by plot.py at 2018-04-17 08:36:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.78 Mbit/s
95th percentile per-packet one-way delay: 90.943 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 41.78 Mbit/s
95th percentile per-packet one-way delay: 90.943 ms
Loss rate: 0.62%

Run 4: Report of Verus — Data Link

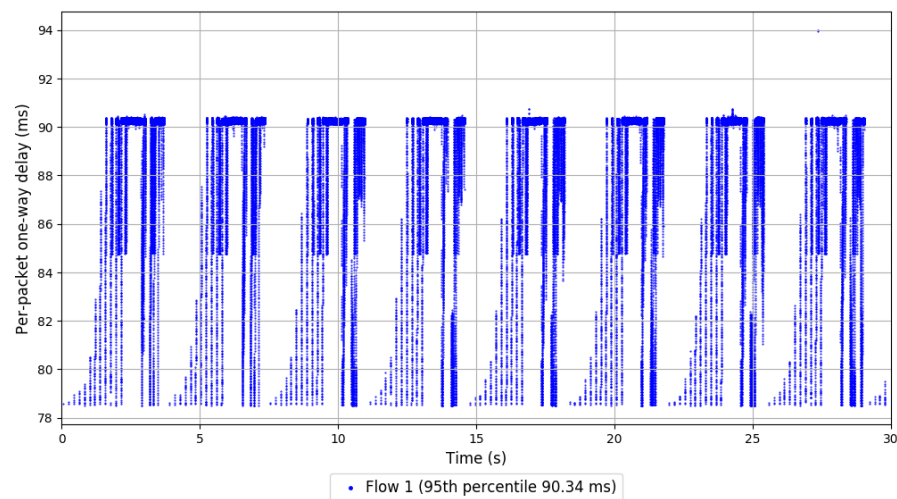
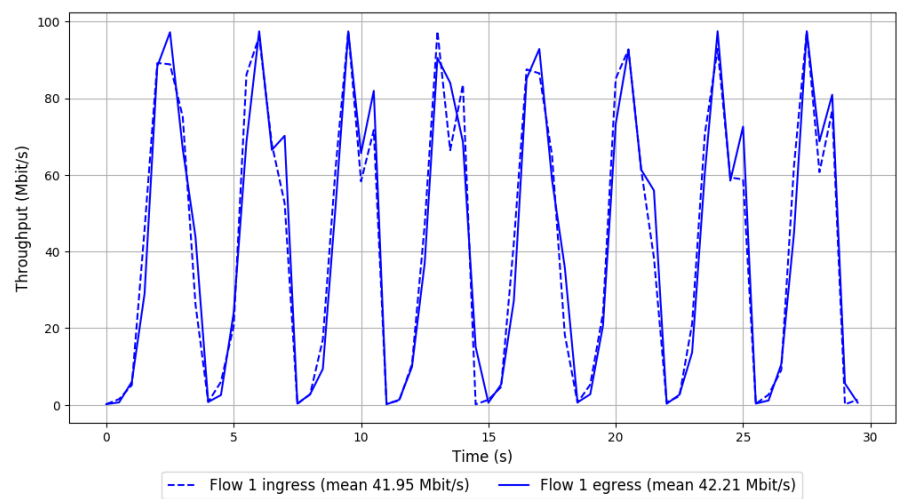


Run 5: Statistics of Verus

Start at: 2018-04-17 02:53:19
End at: 2018-04-17 02:53:49
Local clock offset: -4.227 ms
Remote clock offset: 12.261 ms

Below is generated by plot.py at 2018-04-17 08:36:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.21 Mbit/s
95th percentile per-packet one-way delay: 90.344 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 42.21 Mbit/s
95th percentile per-packet one-way delay: 90.344 ms
Loss rate: 0.03%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-17 03:14:09

End at: 2018-04-17 03:14:39

Local clock offset: -4.338 ms

Remote clock offset: 9.729 ms

Below is generated by plot.py at 2018-04-17 08:36:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 92.225 ms

Loss rate: 0.24%

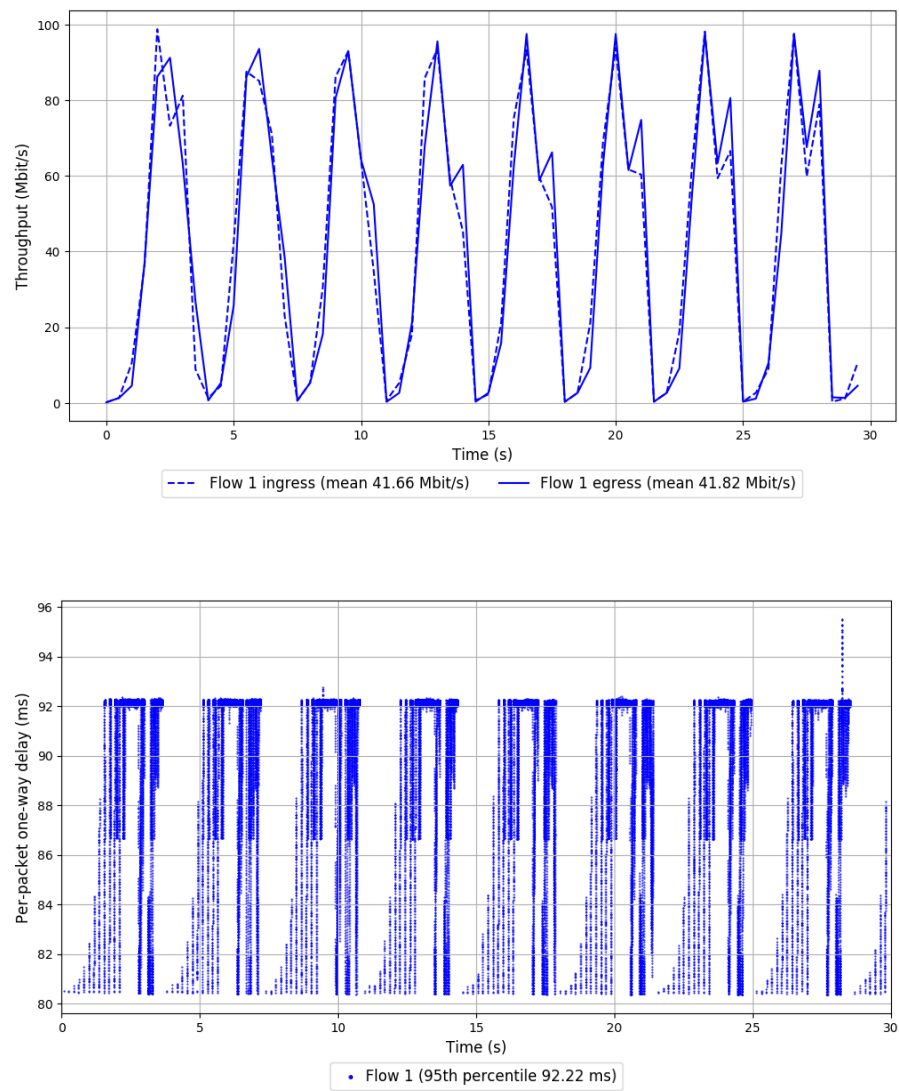
-- Flow 1:

Average throughput: 41.82 Mbit/s

95th percentile per-packet one-way delay: 92.225 ms

Loss rate: 0.24%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-17 03:35:00

End at: 2018-04-17 03:35:30

Local clock offset: -5.168 ms

Remote clock offset: 9.676 ms

Below is generated by plot.py at 2018-04-17 08:36:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 91.461 ms

Loss rate: 0.12%

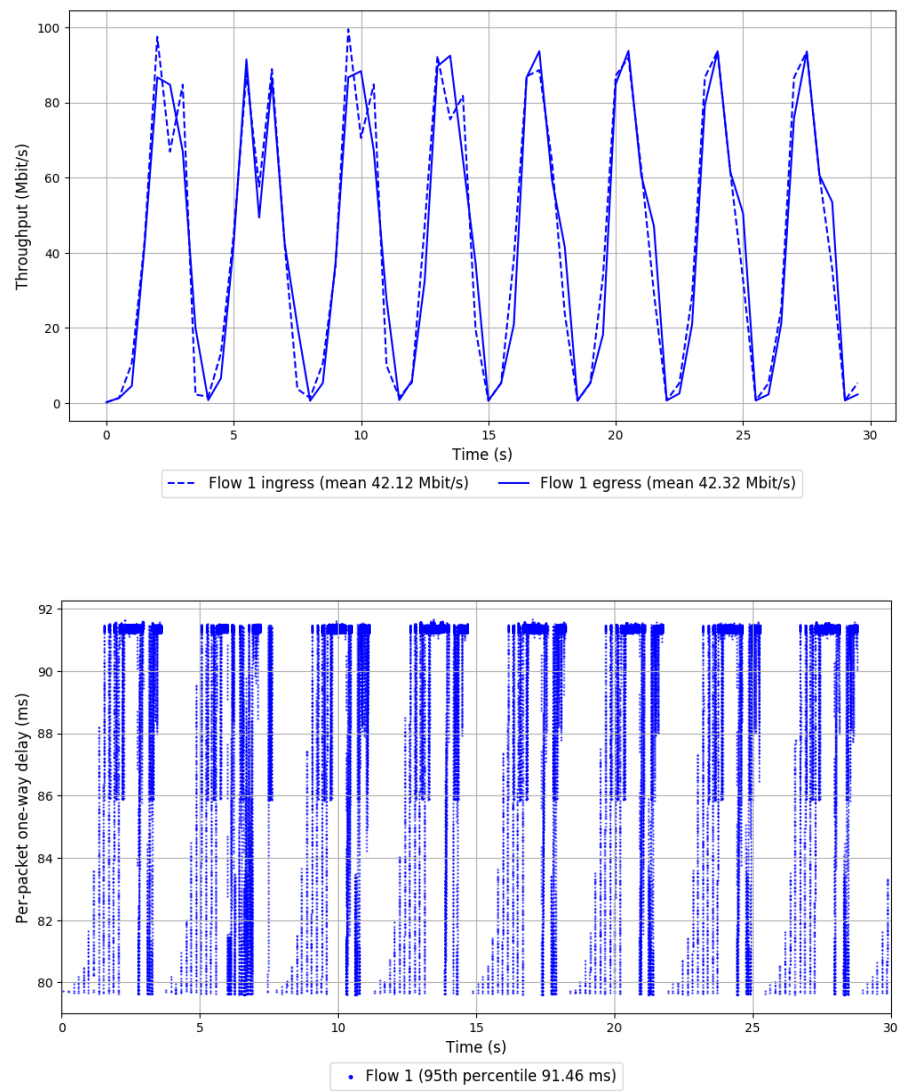
-- Flow 1:

Average throughput: 42.32 Mbit/s

95th percentile per-packet one-way delay: 91.461 ms

Loss rate: 0.12%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-17 03:55:53

End at: 2018-04-17 03:56:23

Local clock offset: -6.089 ms

Remote clock offset: 4.668 ms

Below is generated by plot.py at 2018-04-17 08:36:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 97.158 ms

Loss rate: 0.80%

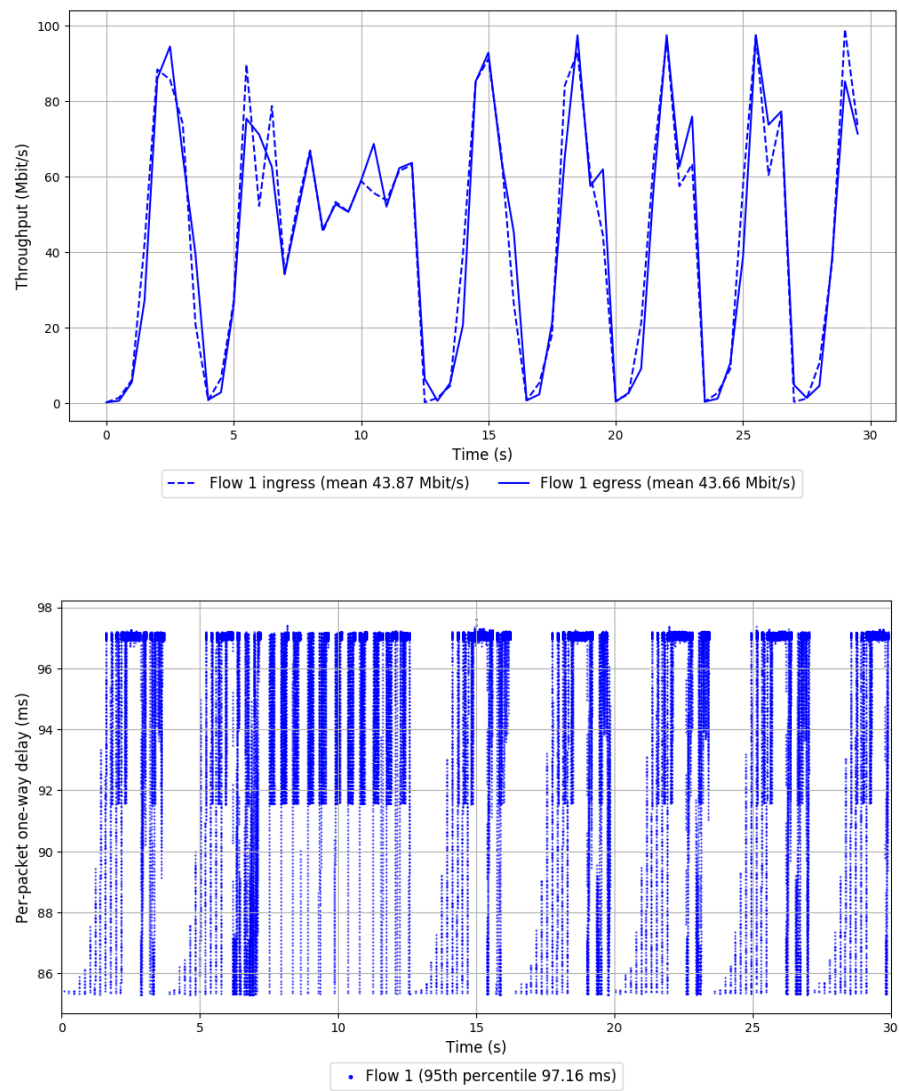
-- Flow 1:

Average throughput: 43.66 Mbit/s

95th percentile per-packet one-way delay: 97.158 ms

Loss rate: 0.80%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-17 04:16:48

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

Local clock offset: -5.639 ms

Remote clock offset: 5.959 ms

Below is generated by plot.py at 2018-04-17 08:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 96.262 ms

Loss rate: 10.84%

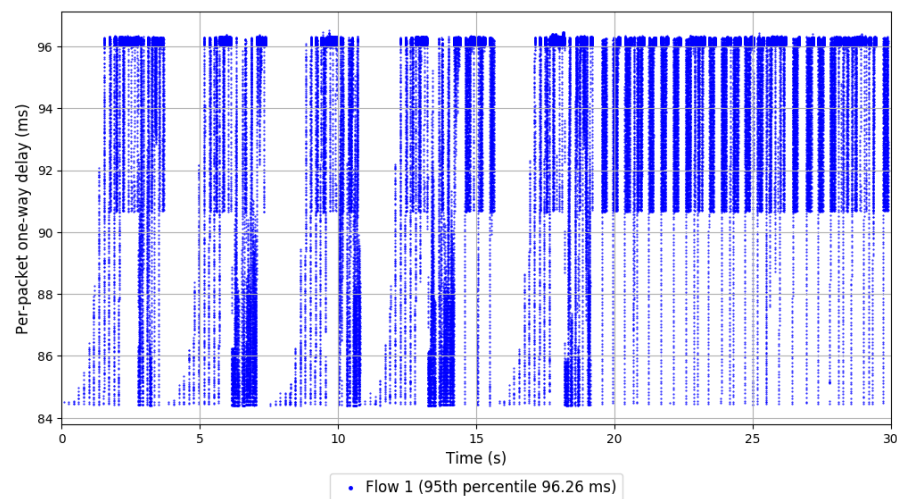
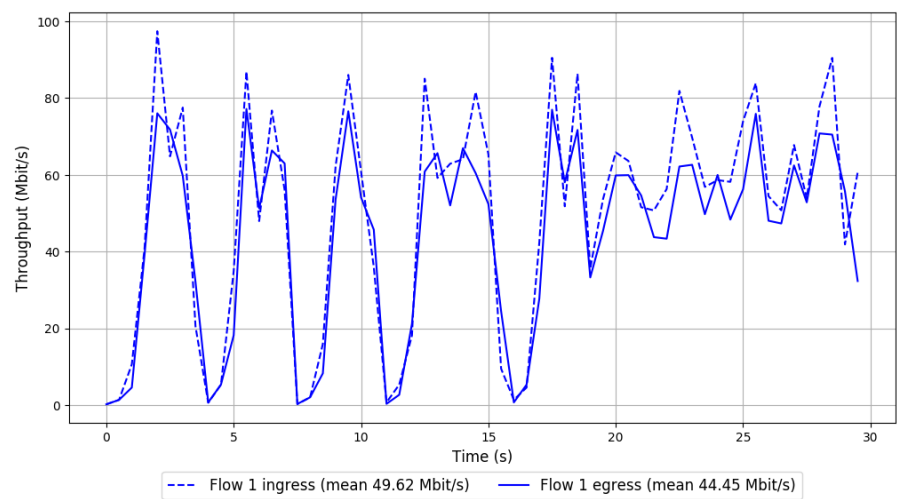
-- Flow 1:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 96.262 ms

Loss rate: 10.84%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

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

Local clock offset: -4.417 ms

Remote clock offset: 7.344 ms

Below is generated by plot.py at 2018-04-17 08:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.41 Mbit/s

95th percentile per-packet one-way delay: 97.073 ms

Loss rate: 1.26%

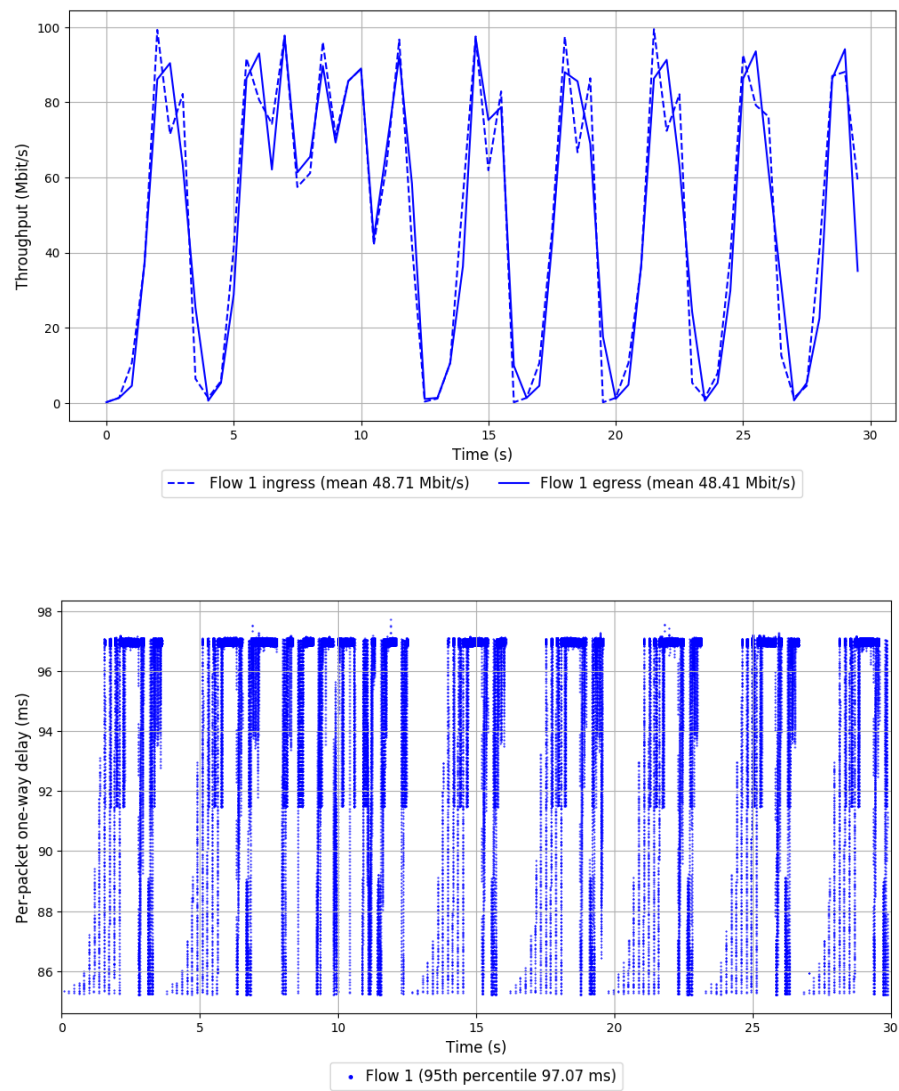
-- Flow 1:

Average throughput: 48.41 Mbit/s

95th percentile per-packet one-way delay: 97.073 ms

Loss rate: 1.26%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 01:38:25

End at: 2018-04-17 01:38:55

Local clock offset: -5.411 ms

Remote clock offset: 6.685 ms

Below is generated by plot.py at 2018-04-17 08:38:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 93.068 ms

Loss rate: 0.65%

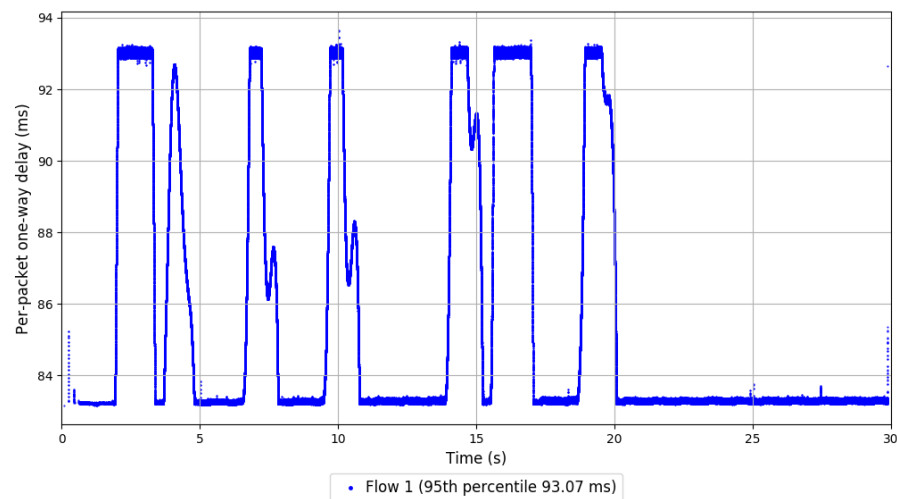
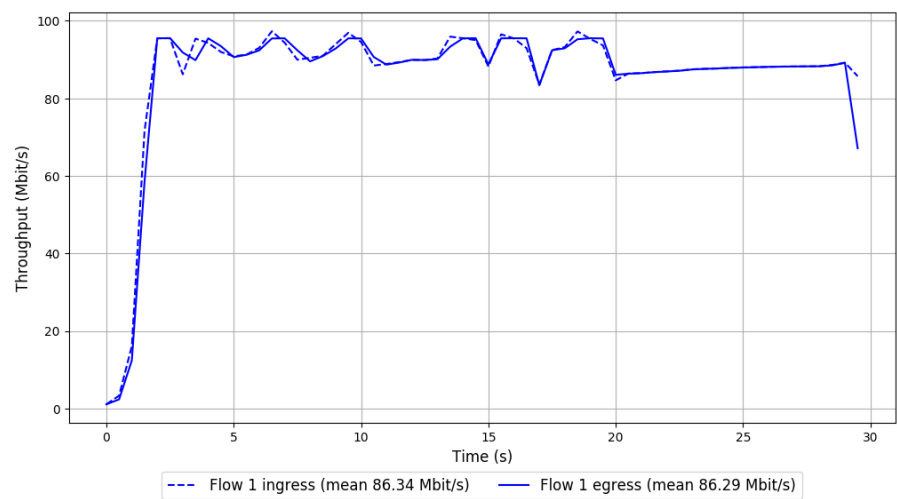
-- Flow 1:

Average throughput: 86.29 Mbit/s

95th percentile per-packet one-way delay: 93.068 ms

Loss rate: 0.65%

Run 1: Report of Copa — Data Link

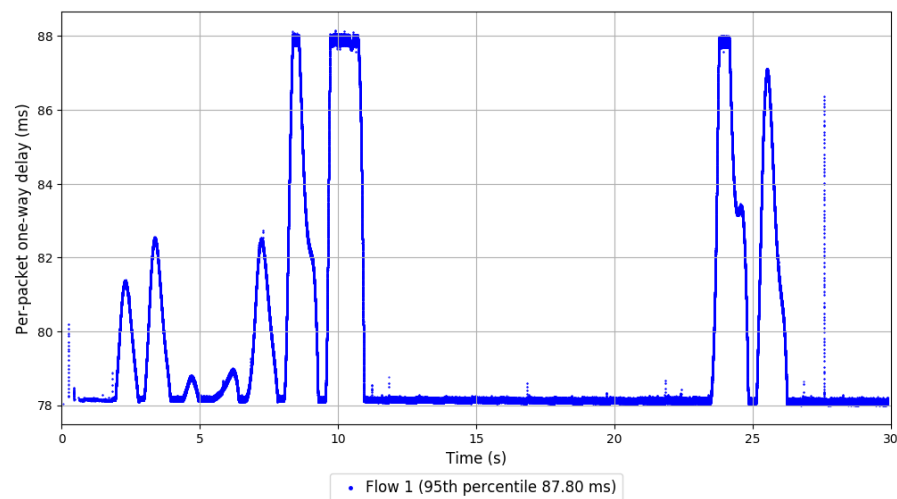
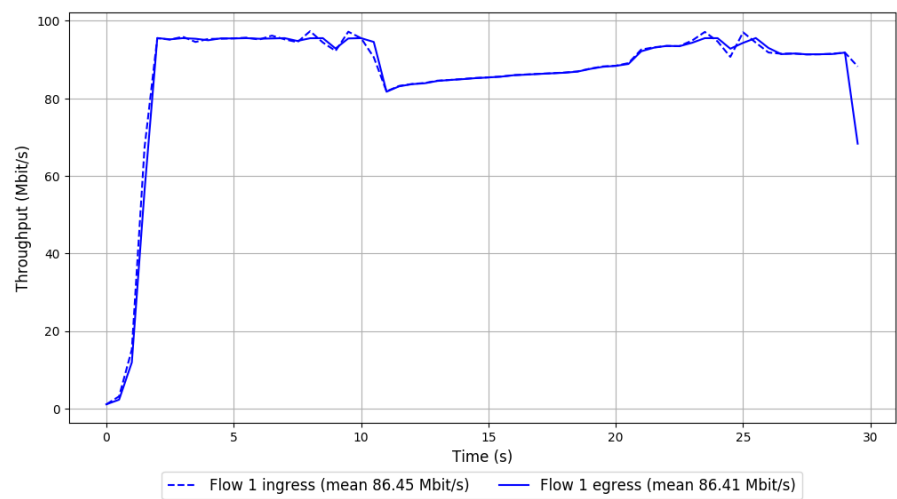


Run 2: Statistics of Copa

Start at: 2018-04-17 01:59:18
End at: 2018-04-17 01:59:48
Local clock offset: -6.284 ms
Remote clock offset: 11.032 ms

Below is generated by plot.py at 2018-04-17 08:38:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 87.800 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 86.41 Mbit/s
95th percentile per-packet one-way delay: 87.800 ms
Loss rate: 0.66%

Run 2: Report of Copa — Data Link

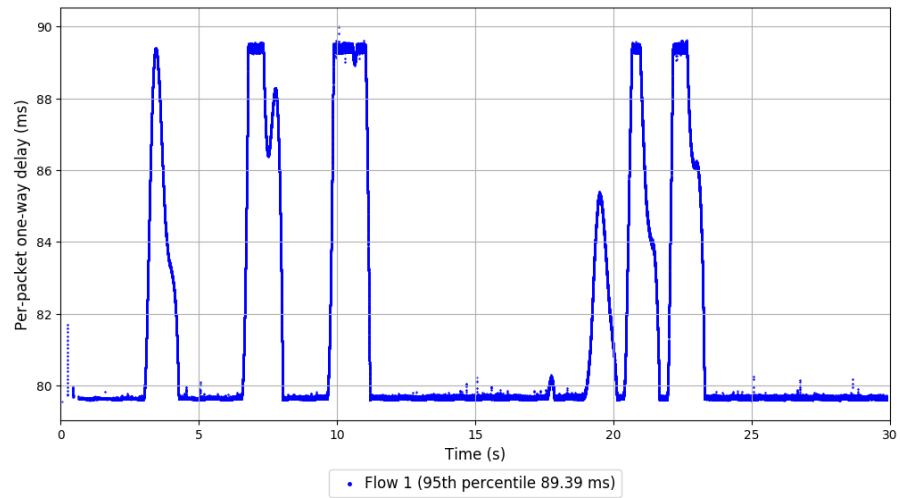
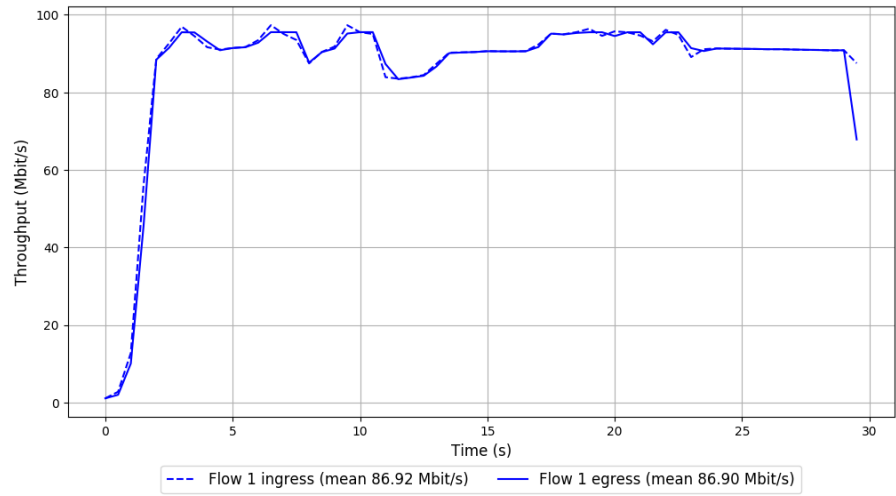


Run 3: Statistics of Copa

Start at: 2018-04-17 02:20:10
End at: 2018-04-17 02:20:40
Local clock offset: -3.72 ms
Remote clock offset: 11.317 ms

Below is generated by plot.py at 2018-04-17 08:38:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.90 Mbit/s
95th percentile per-packet one-way delay: 89.395 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 86.90 Mbit/s
95th percentile per-packet one-way delay: 89.395 ms
Loss rate: 0.65%

Run 3: Report of Copa — Data Link

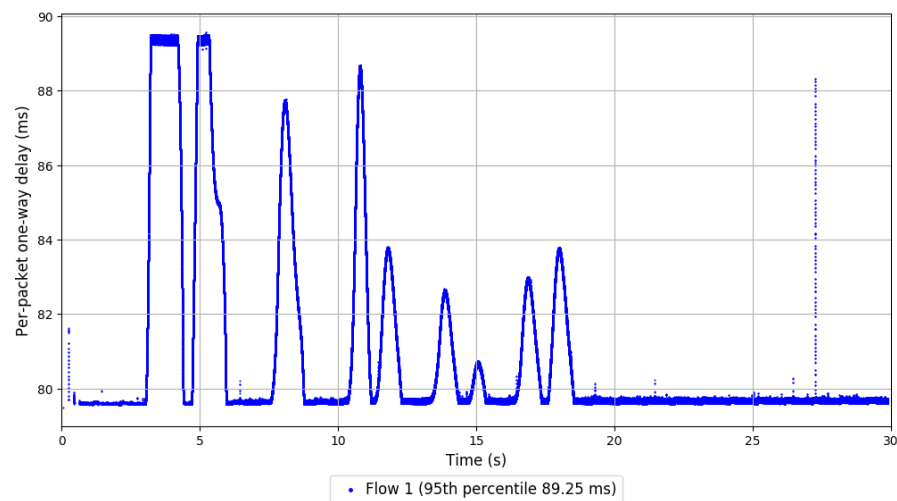
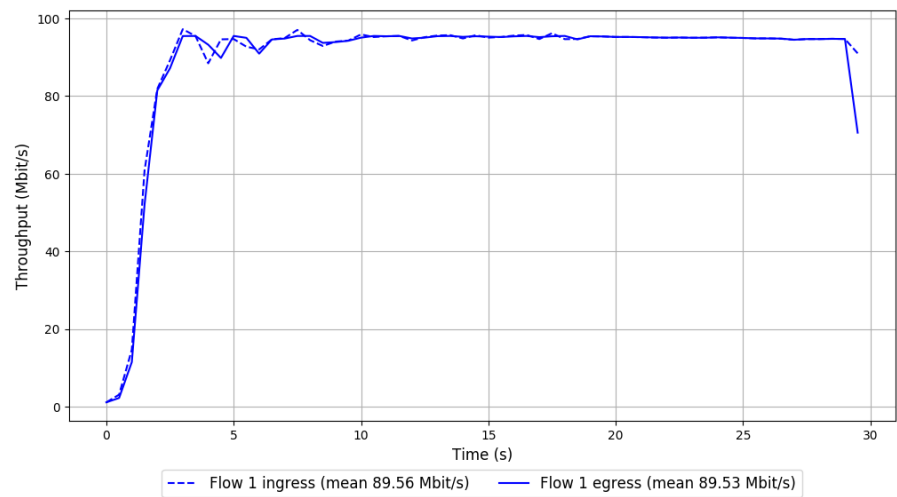


Run 4: Statistics of Copa

Start at: 2018-04-17 02:41:06
End at: 2018-04-17 02:41:36
Local clock offset: -3.182 ms
Remote clock offset: 12.197 ms

Below is generated by plot.py at 2018-04-17 08:38:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.53 Mbit/s
95th percentile per-packet one-way delay: 89.245 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 89.53 Mbit/s
95th percentile per-packet one-way delay: 89.245 ms
Loss rate: 0.66%

Run 4: Report of Copa — Data Link

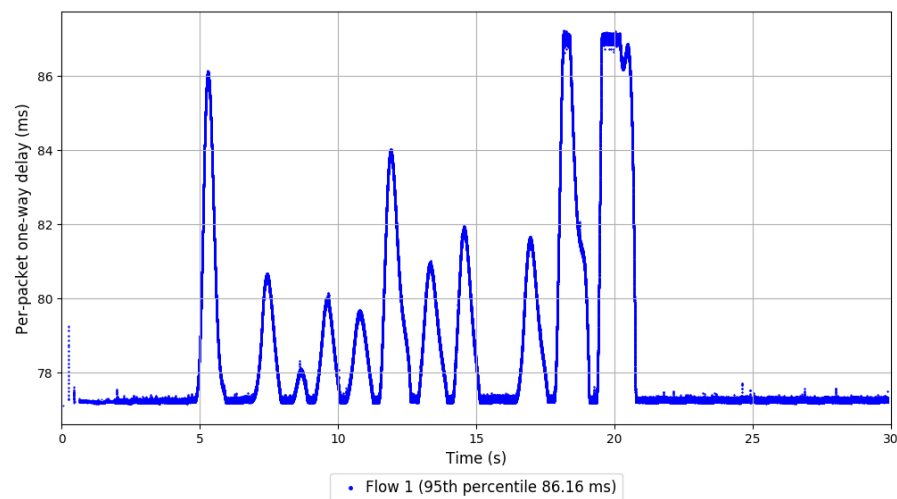
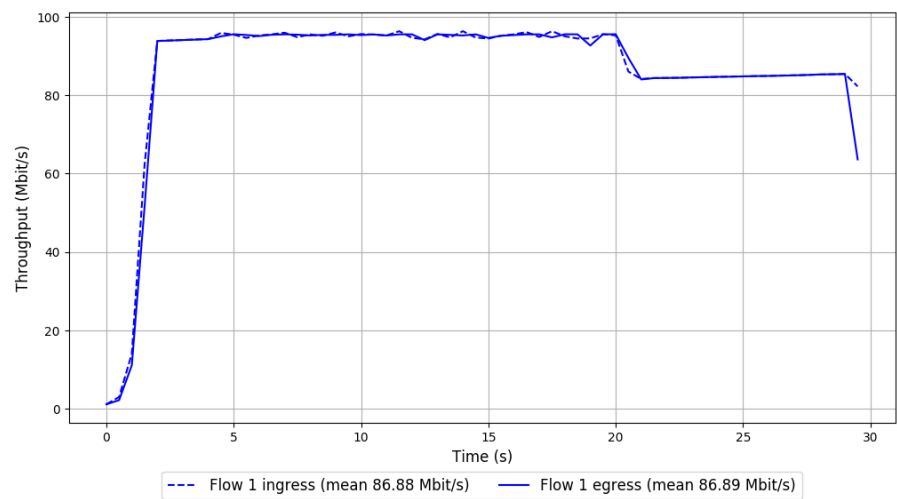


Run 5: Statistics of Copa

Start at: 2018-04-17 03:01:58
End at: 2018-04-17 03:02:29
Local clock offset: -5.008 ms
Remote clock offset: 11.467 ms

Below is generated by plot.py at 2018-04-17 08:38:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 86.162 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 86.162 ms
Loss rate: 0.61%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-17 03:22:49

End at: 2018-04-17 03:23:19

Local clock offset: -4.355 ms

Remote clock offset: 4.397 ms

Below is generated by plot.py at 2018-04-17 08:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.14 Mbit/s

95th percentile per-packet one-way delay: 93.784 ms

Loss rate: 0.73%

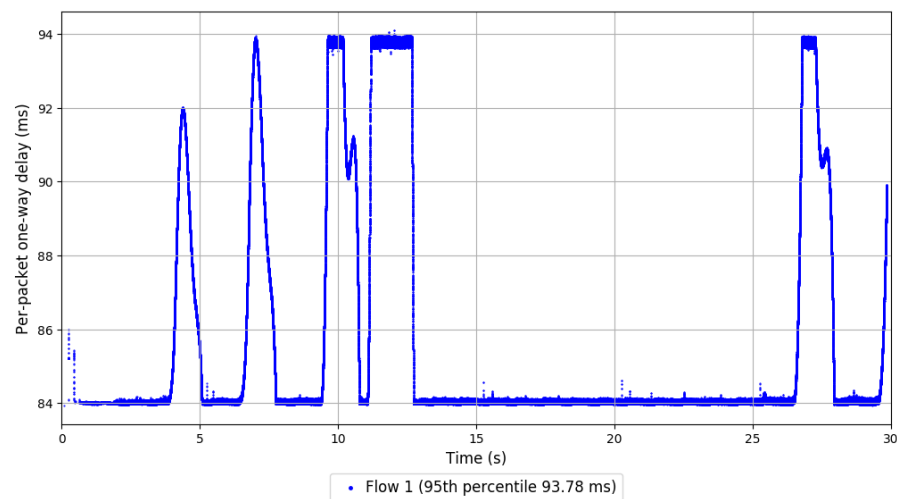
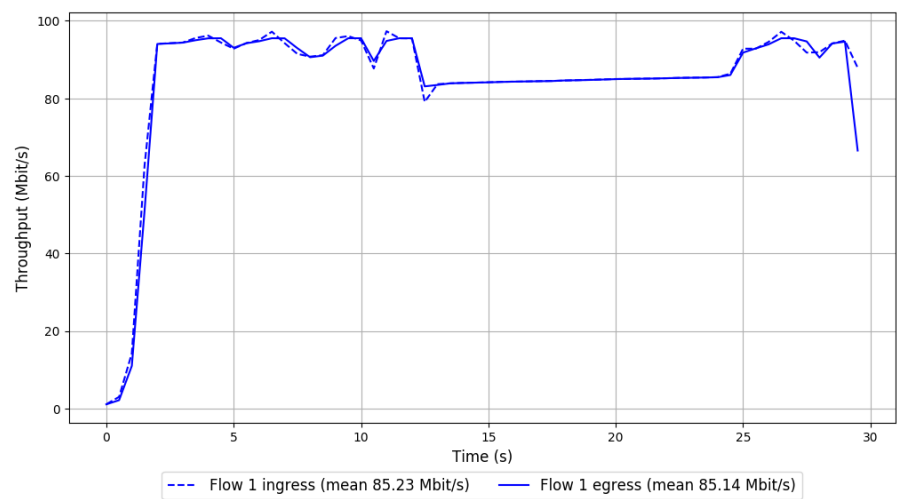
-- Flow 1:

Average throughput: 85.14 Mbit/s

95th percentile per-packet one-way delay: 93.784 ms

Loss rate: 0.73%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 03:43:39

End at: 2018-04-17 03:44:09

Local clock offset: -3.832 ms

Remote clock offset: 4.234 ms

Below is generated by plot.py at 2018-04-17 08:38:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.14 Mbit/s

95th percentile per-packet one-way delay: 86.835 ms

Loss rate: 1.86%

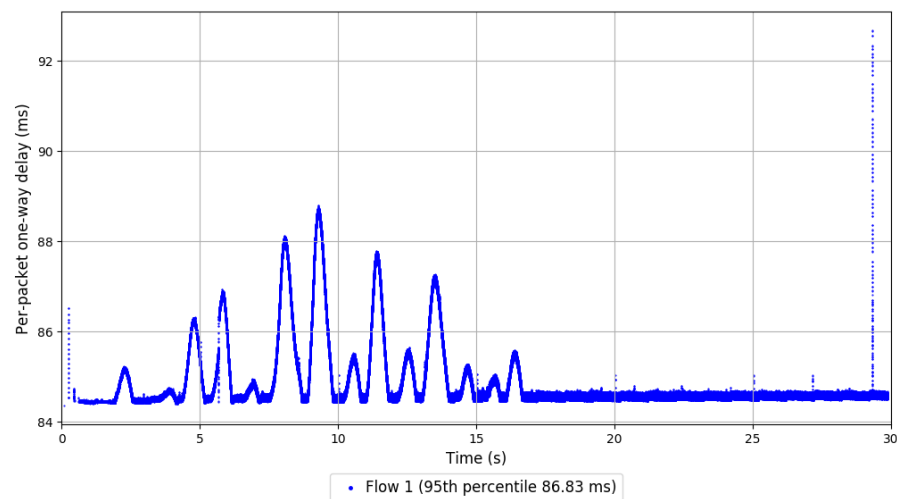
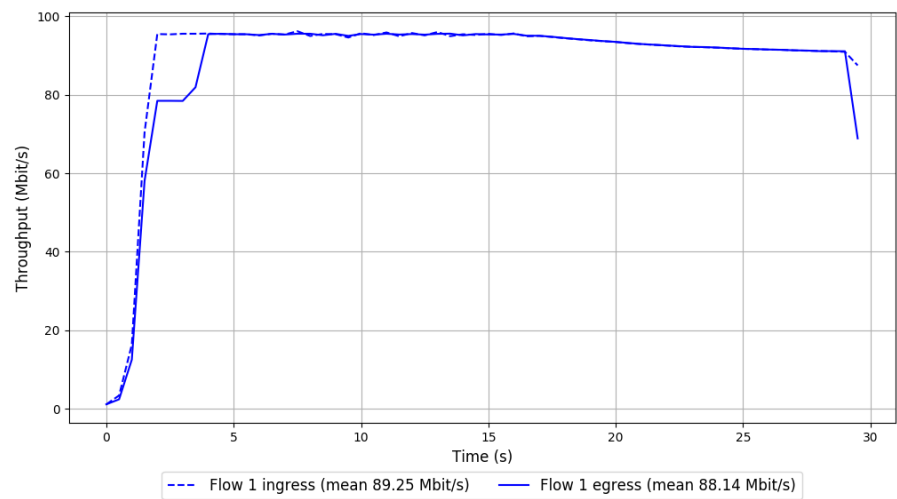
-- Flow 1:

Average throughput: 88.14 Mbit/s

95th percentile per-packet one-way delay: 86.835 ms

Loss rate: 1.86%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

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

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

Local clock offset: -4.809 ms

Remote clock offset: 9.562 ms

Below is generated by plot.py at 2018-04-17 08:38:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.34 Mbit/s

95th percentile per-packet one-way delay: 81.769 ms

Loss rate: 5.54%

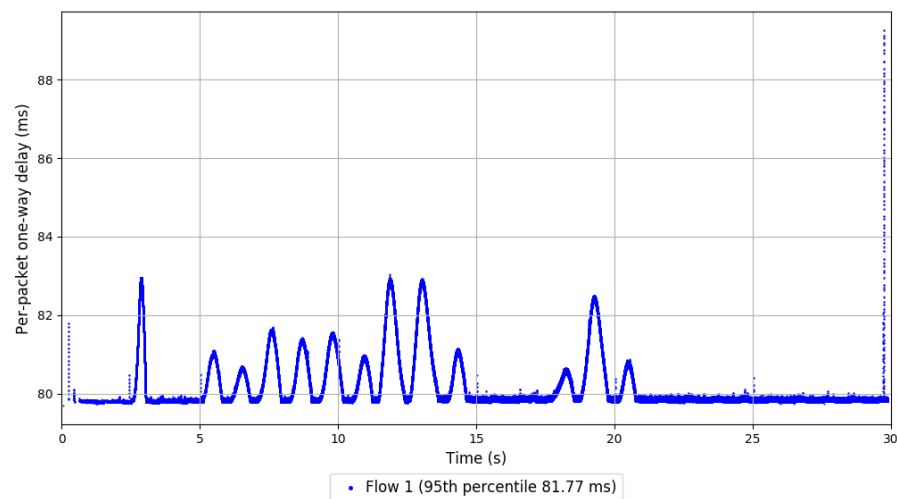
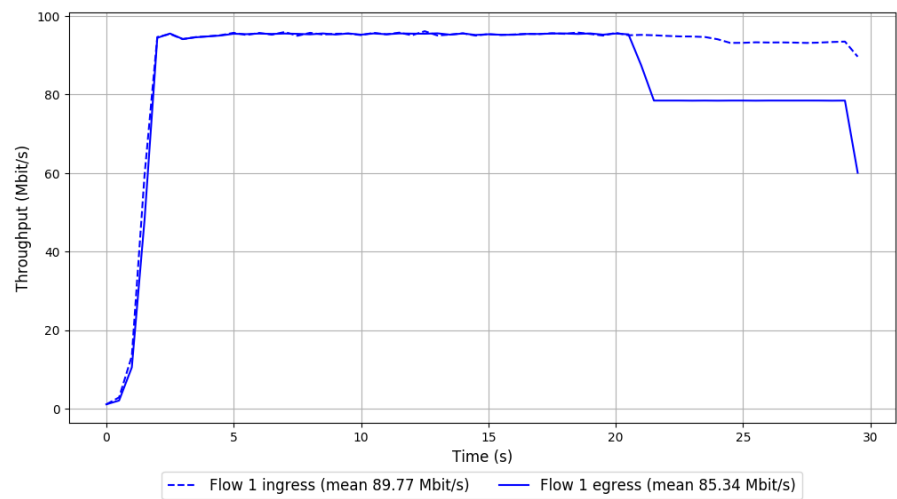
-- Flow 1:

Average throughput: 85.34 Mbit/s

95th percentile per-packet one-way delay: 81.769 ms

Loss rate: 5.54%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-17 04:25:31

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

Local clock offset: -5.636 ms

Remote clock offset: 5.909 ms

Below is generated by plot.py at 2018-04-17 08:40:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 88.480 ms

Loss rate: 0.63%

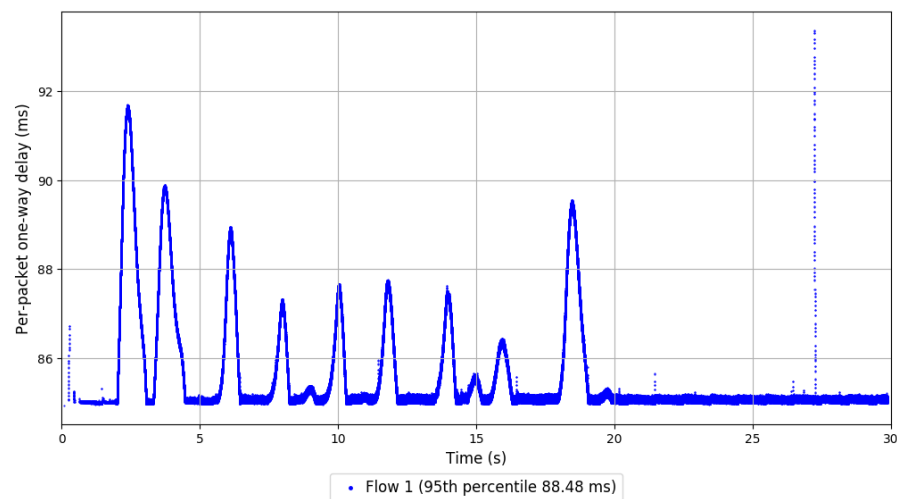
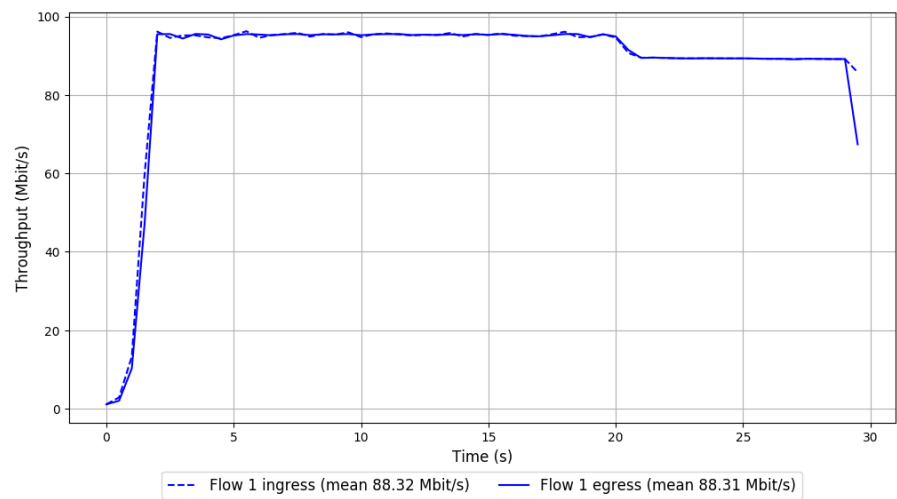
-- Flow 1:

Average throughput: 88.31 Mbit/s

95th percentile per-packet one-way delay: 88.480 ms

Loss rate: 0.63%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 04:46:27

End at: 2018-04-17 04:46:57

Local clock offset: -4.981 ms

Remote clock offset: 6.844 ms

Below is generated by plot.py at 2018-04-17 08:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 88.122 ms

Loss rate: 0.64%

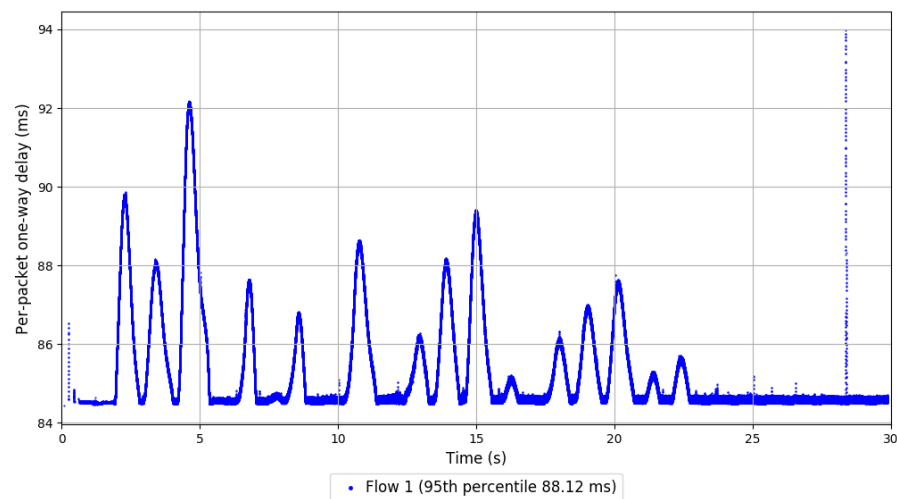
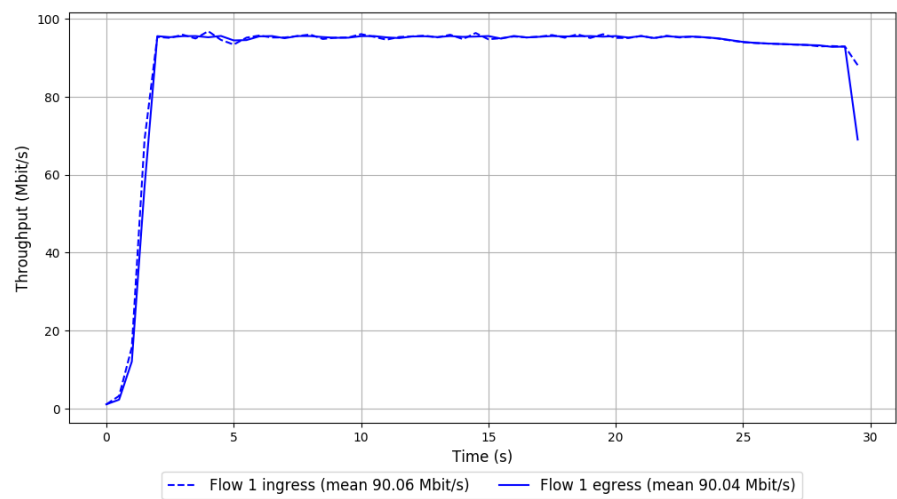
-- Flow 1:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 88.122 ms

Loss rate: 0.64%

Run 10: Report of Copa — Data Link

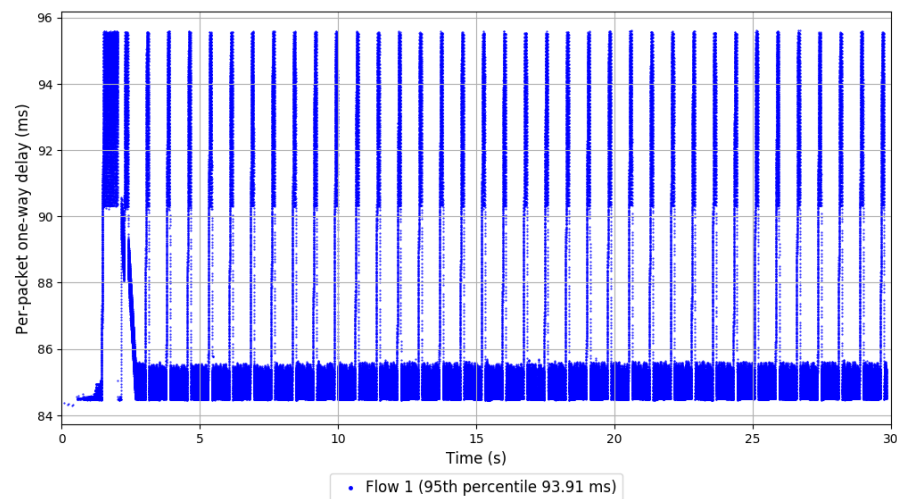
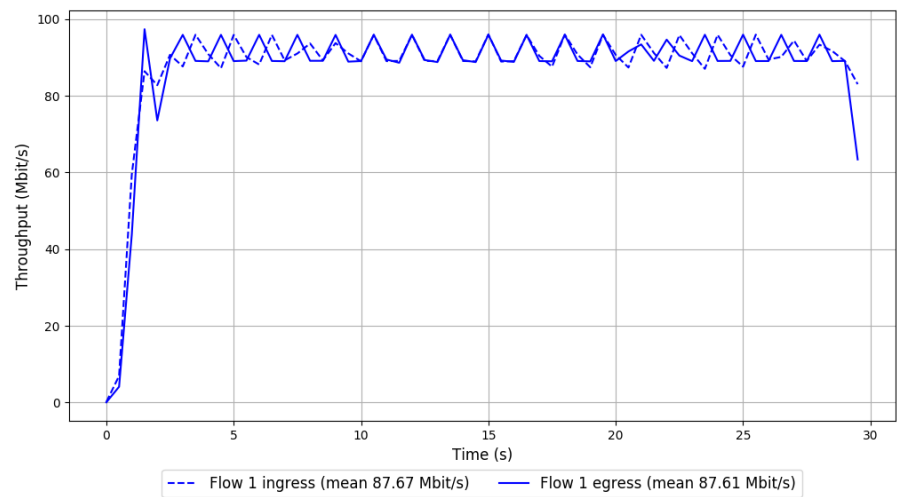


```
Run 1: Statistics of FillP

Start at: 2018-04-17 01:42:09
End at: 2018-04-17 01:42:39
Local clock offset: -4.676 ms
Remote clock offset: 6.031 ms

# Below is generated by plot.py at 2018-04-17 08:40:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 93.911 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 87.61 Mbit/s
95th percentile per-packet one-way delay: 93.911 ms
Loss rate: 0.68%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 02:03:02

End at: 2018-04-17 02:03:32

Local clock offset: -4.946 ms

Remote clock offset: 6.861 ms

Below is generated by plot.py at 2018-04-17 08:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 94.083 ms

Loss rate: 0.60%

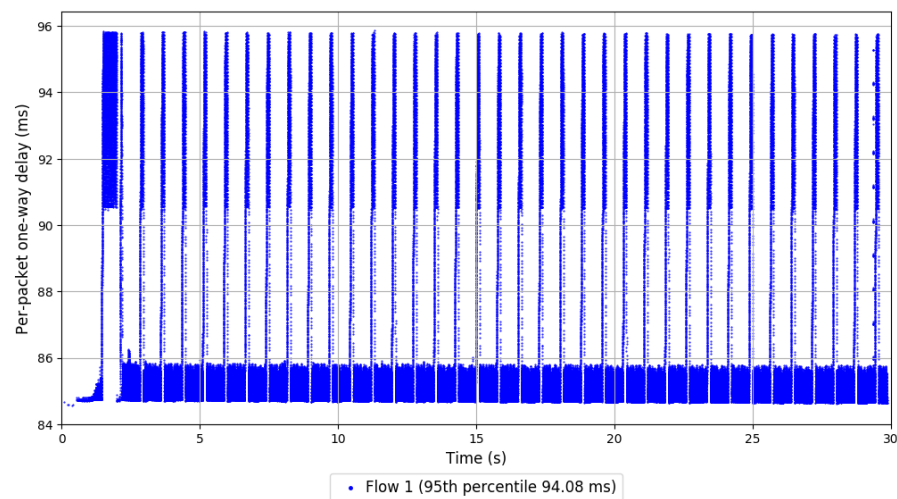
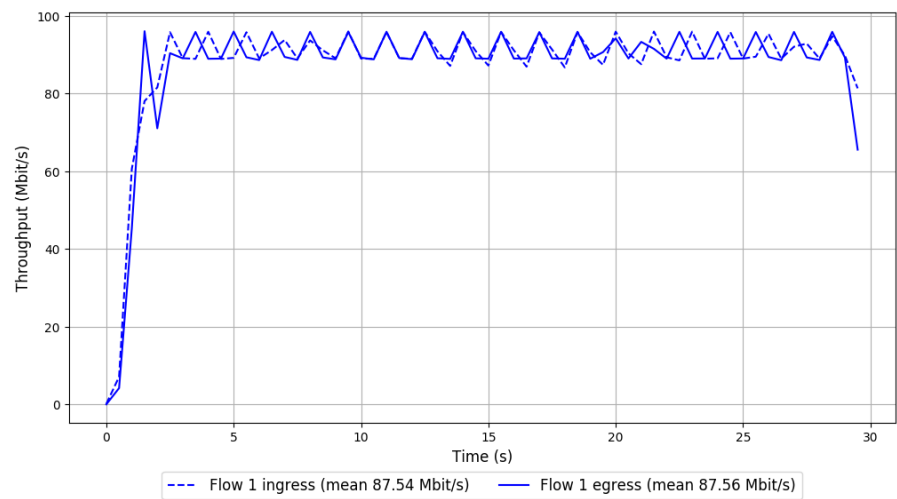
-- Flow 1:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 94.083 ms

Loss rate: 0.60%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-17 02:23:55

End at: 2018-04-17 02:24:25

Local clock offset: -3.556 ms

Remote clock offset: 10.52 ms

Below is generated by plot.py at 2018-04-17 08:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.38 Mbit/s

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

Loss rate: 10.10%

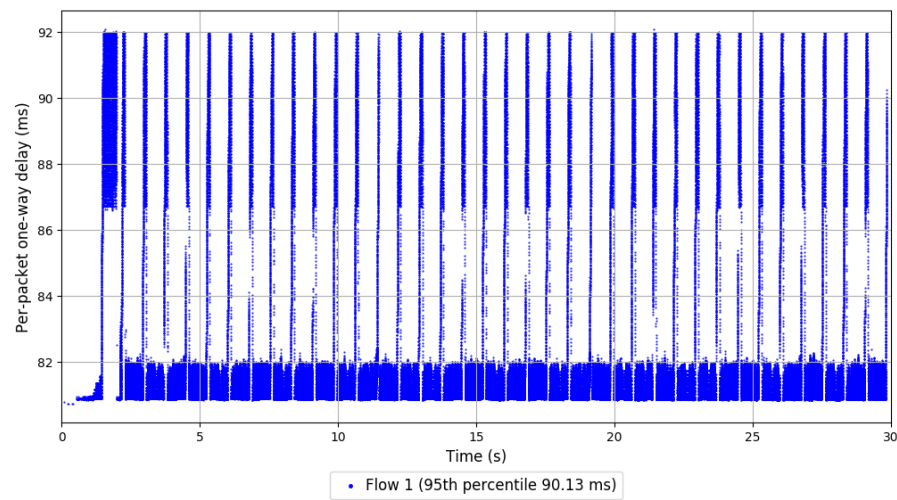
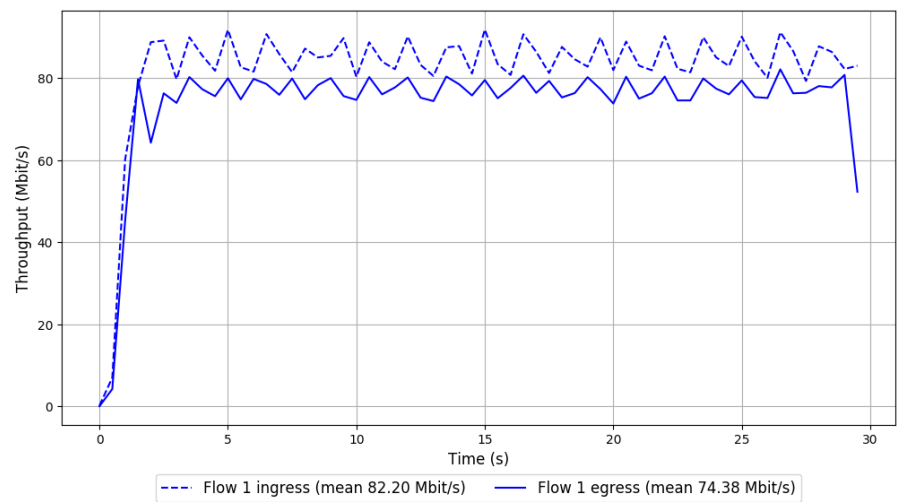
-- Flow 1:

Average throughput: 74.38 Mbit/s

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

Loss rate: 10.10%

Run 3: Report of FillP — Data Link

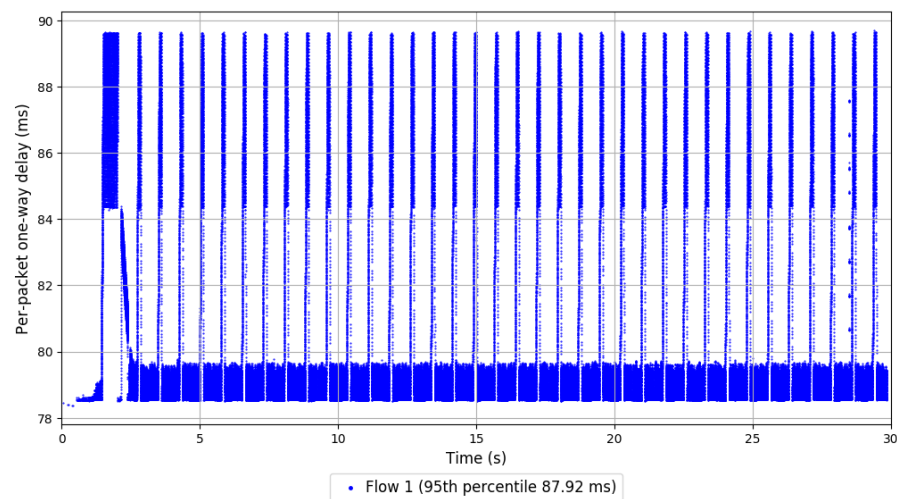
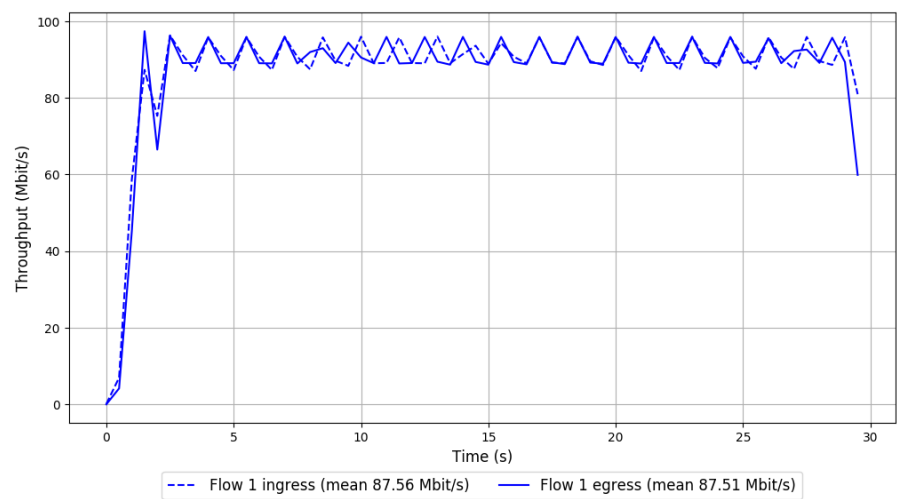


Run 4: Statistics of FillP

Start at: 2018-04-17 02:44:50
End at: 2018-04-17 02:45:20
Local clock offset: -4.816 ms
Remote clock offset: 12.249 ms

Below is generated by plot.py at 2018-04-17 08:40:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 87.920 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 87.920 ms
Loss rate: 0.69%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-17 03:05:42

End at: 2018-04-17 03:06:12

Local clock offset: -4.96 ms

Remote clock offset: 6.718 ms

Below is generated by plot.py at 2018-04-17 08:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 94.171 ms

Loss rate: 0.72%

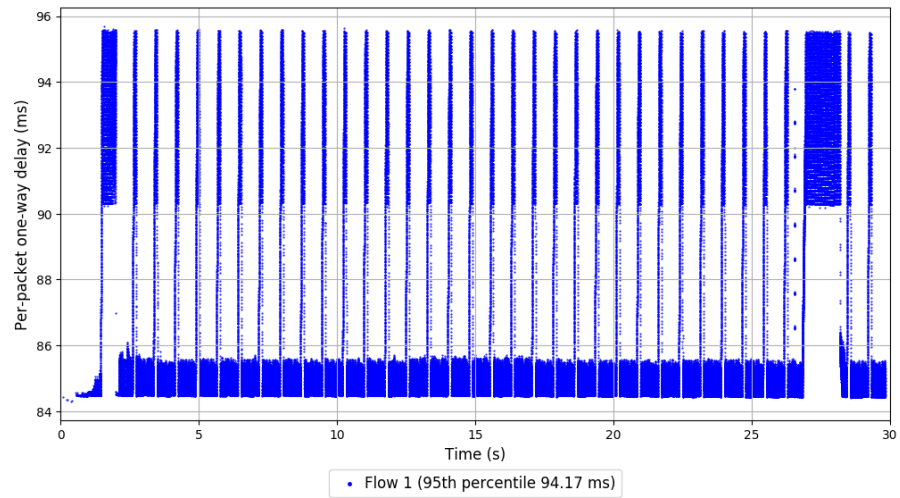
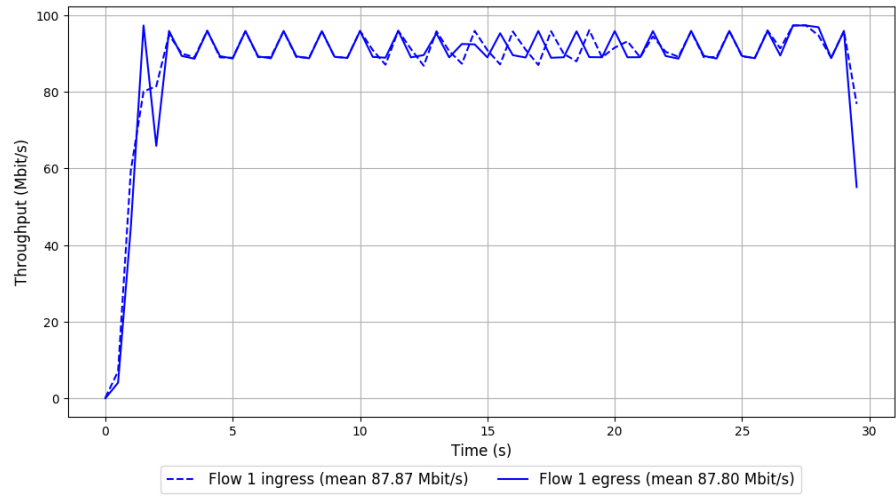
-- Flow 1:

Average throughput: 87.80 Mbit/s

95th percentile per-packet one-way delay: 94.171 ms

Loss rate: 0.72%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-17 03:26:32

End at: 2018-04-17 03:27:02

Local clock offset: -3.645 ms

Remote clock offset: 9.933 ms

Below is generated by plot.py at 2018-04-17 08:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 88.519 ms

Loss rate: 0.71%

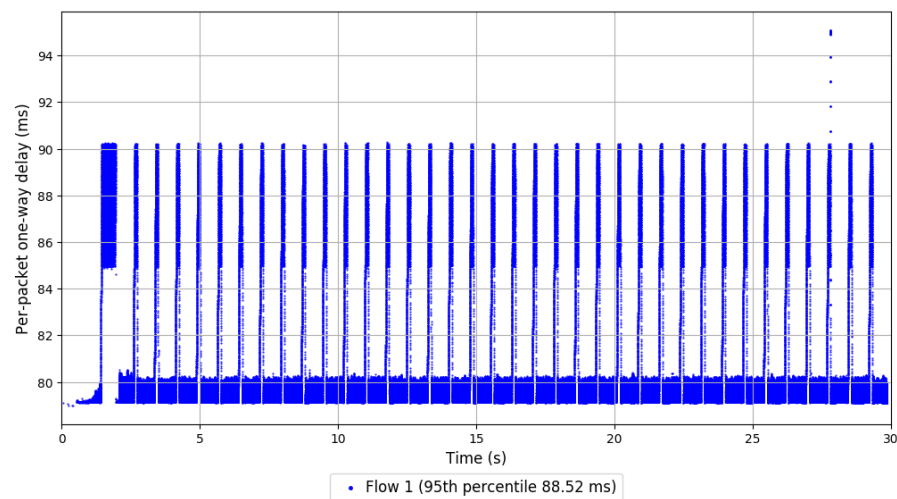
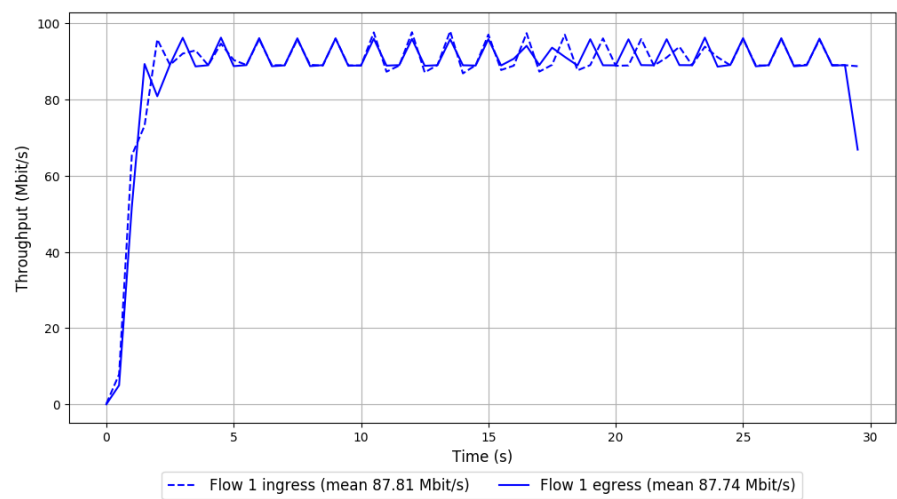
-- Flow 1:

Average throughput: 87.74 Mbit/s

95th percentile per-packet one-way delay: 88.519 ms

Loss rate: 0.71%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-17 03:47:25

End at: 2018-04-17 03:47:55

Local clock offset: -5.71 ms

Remote clock offset: 5.26 ms

Below is generated by plot.py at 2018-04-17 08:41:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 93.459 ms

Loss rate: 0.69%

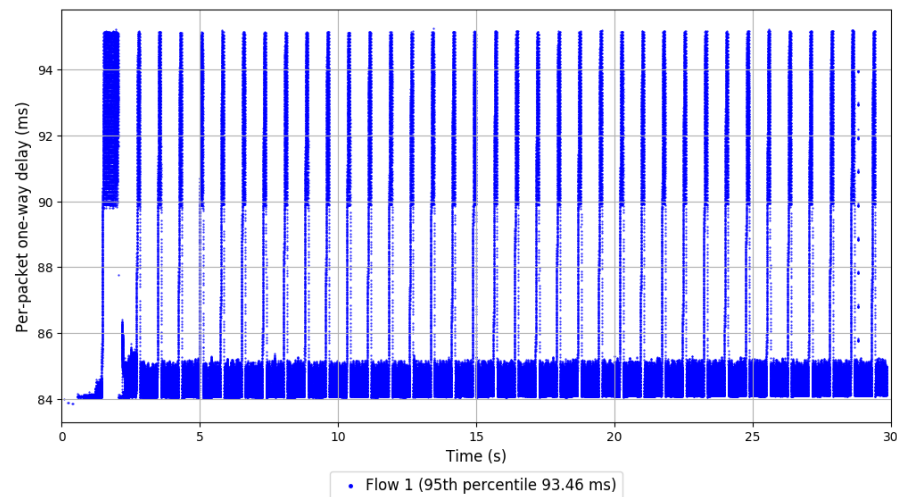
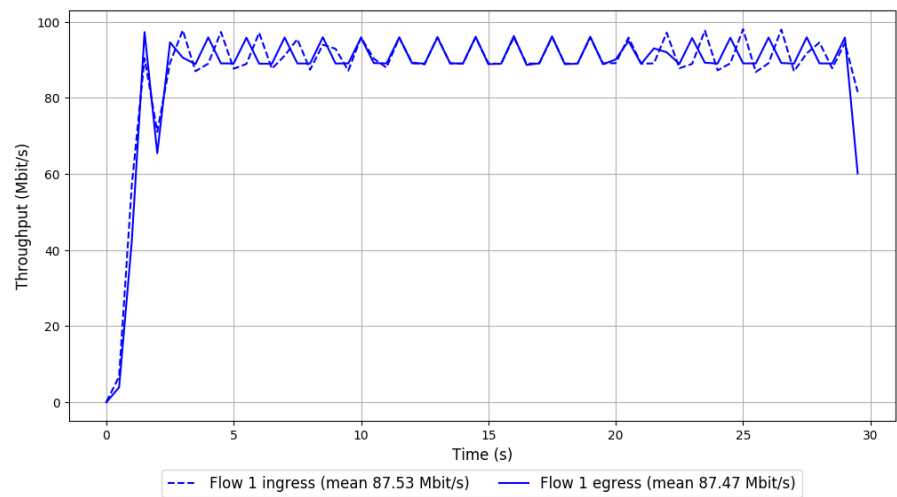
-- Flow 1:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 93.459 ms

Loss rate: 0.69%

Run 7: Report of FillP — Data Link

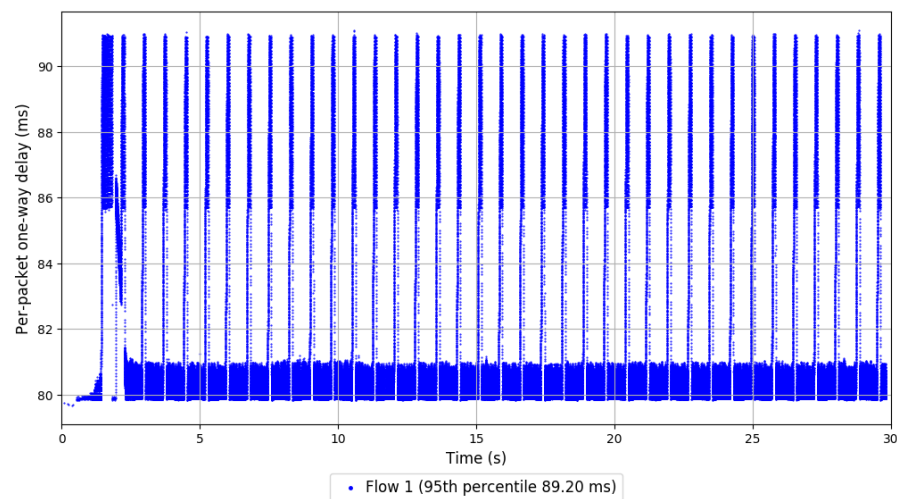
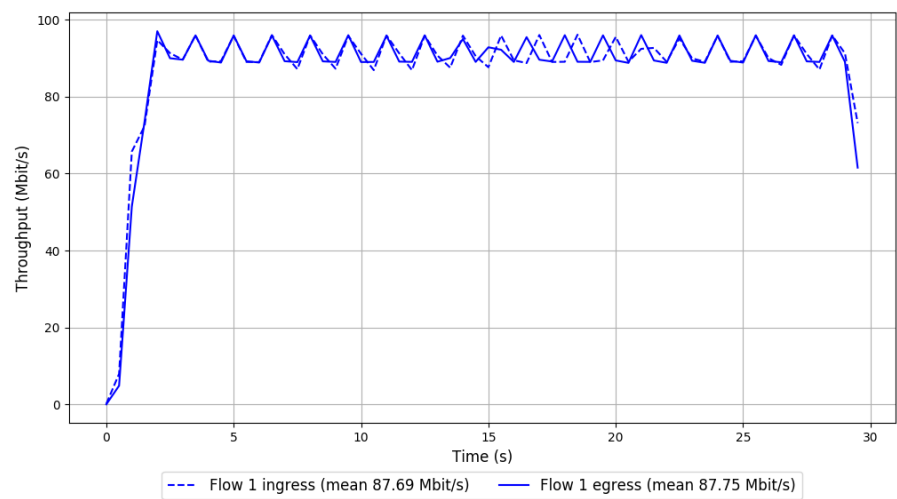


Run 8: Statistics of FillP

Start at: 2018-04-17 04:08:19
End at: 2018-04-17 04:08:49
Local clock offset: -5.617 ms
Remote clock offset: 10.377 ms

Below is generated by plot.py at 2018-04-17 08:41:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 89.202 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 87.75 Mbit/s
95th percentile per-packet one-way delay: 89.202 ms
Loss rate: 0.56%

Run 8: Report of FillP — Data Link

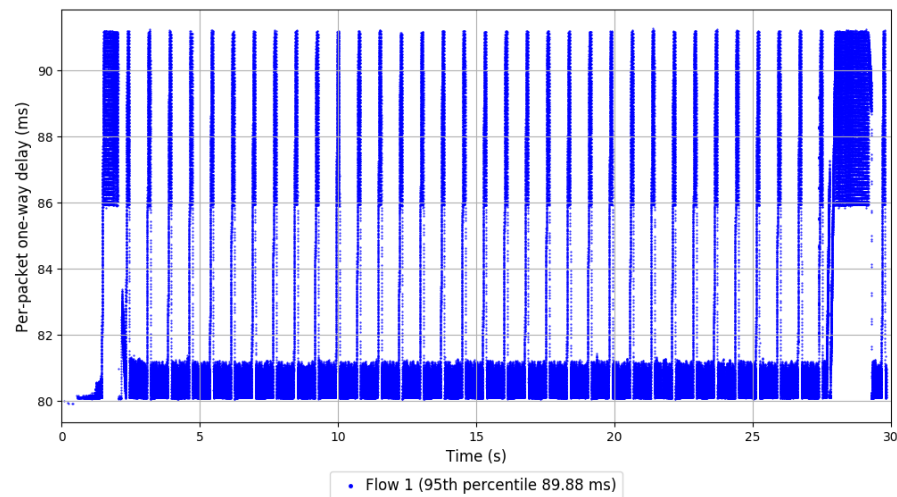
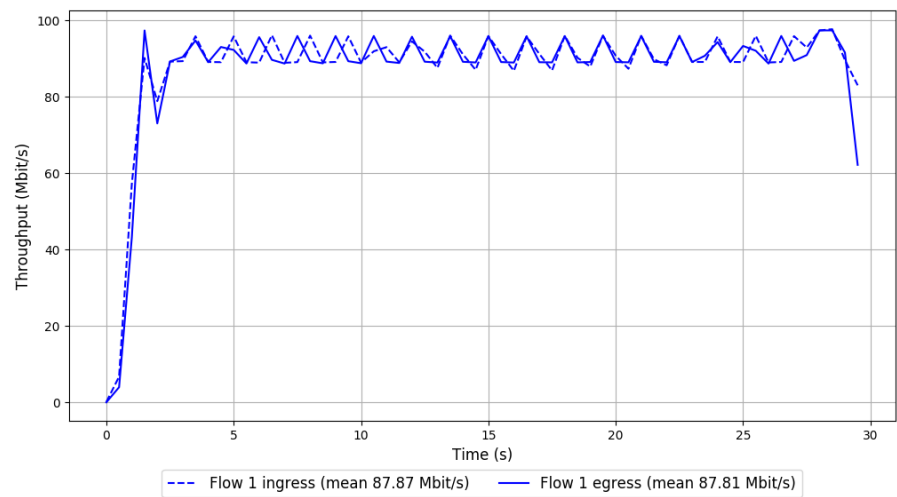


Run 9: Statistics of FillP

Start at: 2018-04-17 04:29:16
End at: 2018-04-17 04:29:46
Local clock offset: -4.682 ms
Remote clock offset: 11.809 ms

Below is generated by plot.py at 2018-04-17 08:41:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 89.882 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 89.882 ms
Loss rate: 0.69%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 04:50:11

End at: 2018-04-17 04:50:41

Local clock offset: -4.174 ms

Remote clock offset: 6.637 ms

Below is generated by plot.py at 2018-04-17 08:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 93.752 ms

Loss rate: 0.69%

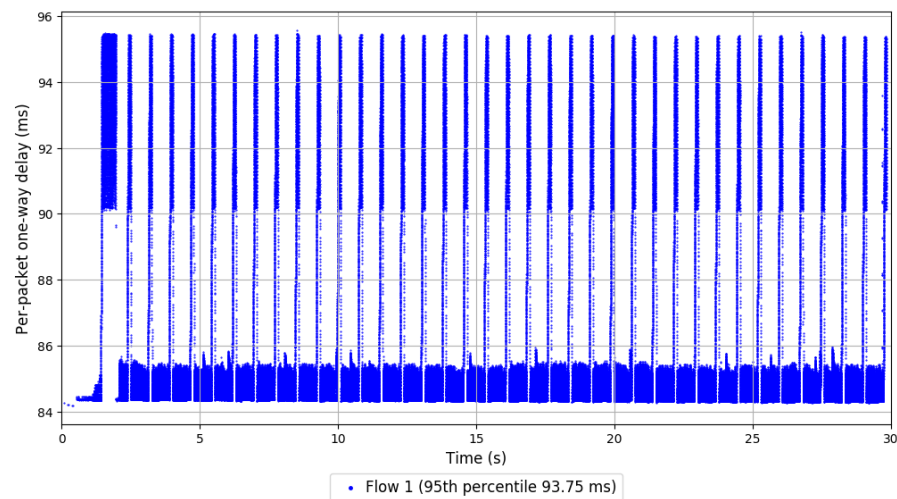
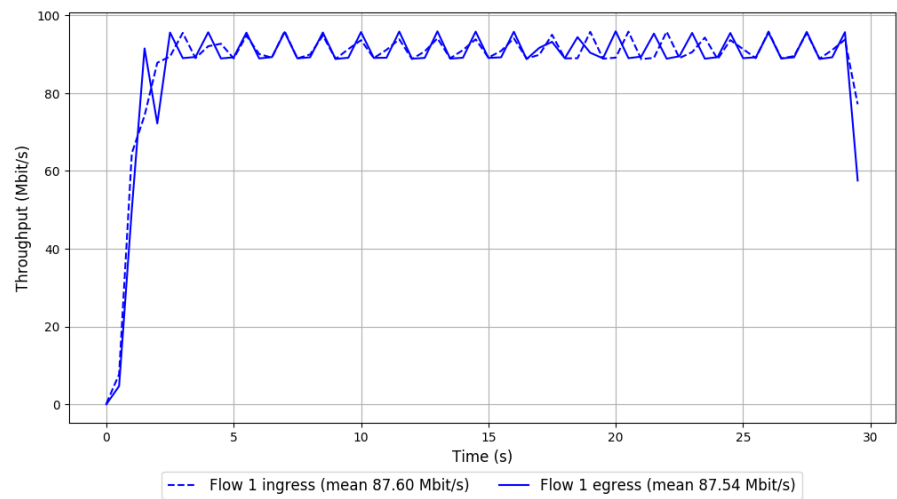
-- Flow 1:

Average throughput: 87.54 Mbit/s

95th percentile per-packet one-way delay: 93.752 ms

Loss rate: 0.69%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 01:23:45

End at: 2018-04-17 01:24:15

Local clock offset: -4.883 ms

Remote clock offset: 5.643 ms

Below is generated by plot.py at 2018-04-17 08:41:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 95.793 ms

Loss rate: 0.69%

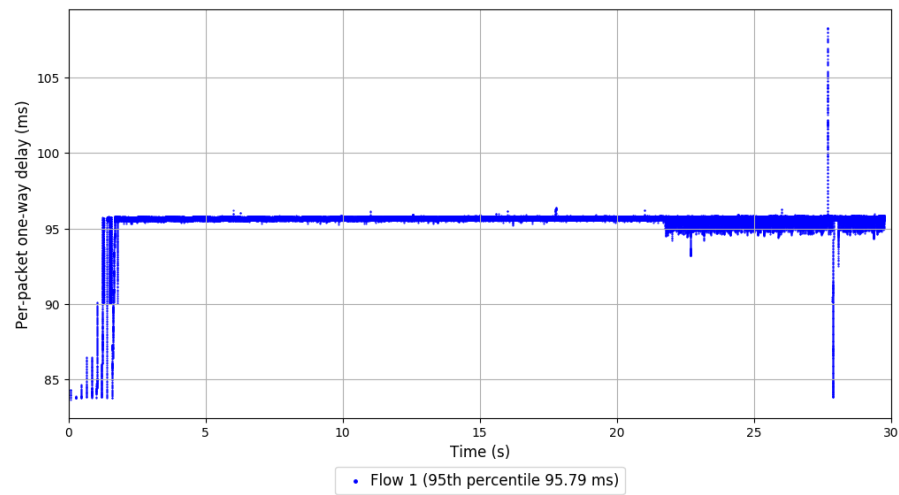
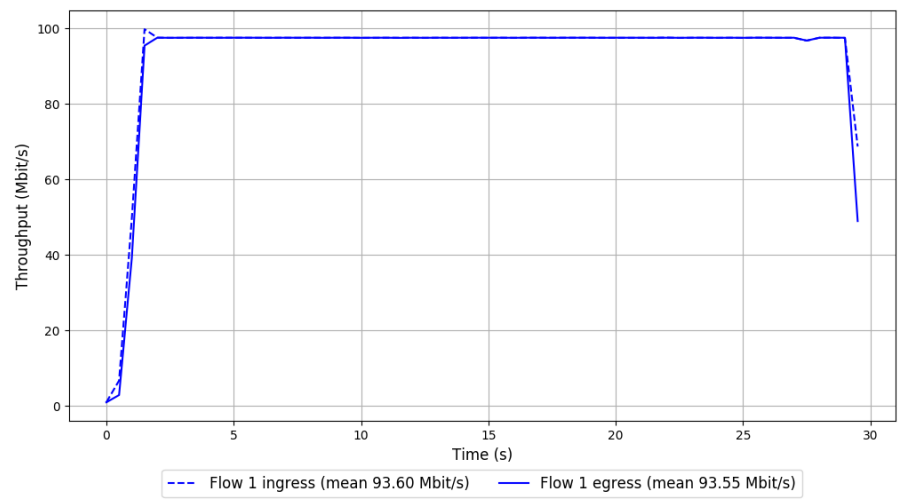
-- Flow 1:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 95.793 ms

Loss rate: 0.69%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 01:44:38

End at: 2018-04-17 01:45:08

Local clock offset: -6.19 ms

Remote clock offset: 6.857 ms

Below is generated by plot.py at 2018-04-17 08:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 94.360 ms

Loss rate: 0.65%

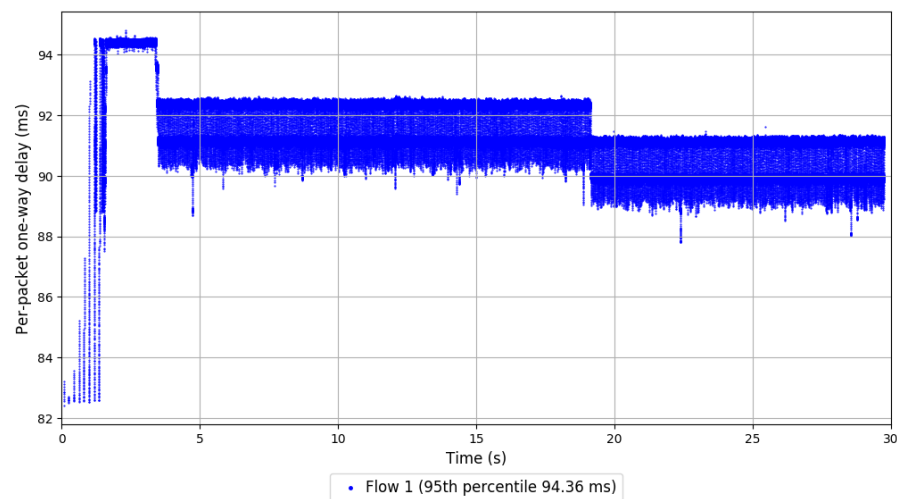
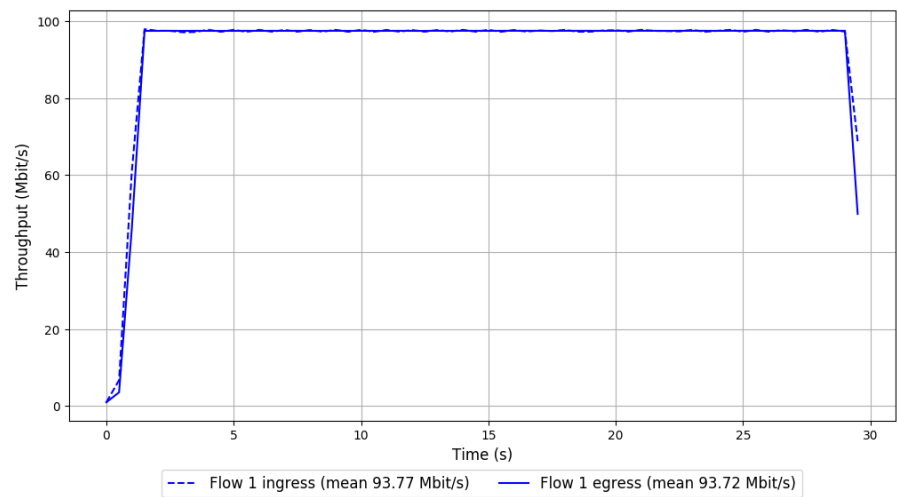
-- Flow 1:

Average throughput: 93.72 Mbit/s

95th percentile per-packet one-way delay: 94.360 ms

Loss rate: 0.65%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 02:05:30

End at: 2018-04-17 02:06:00

Local clock offset: -4.67 ms

Remote clock offset: 12.373 ms

Below is generated by plot.py at 2018-04-17 08:42:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 90.509 ms

Loss rate: 0.68%

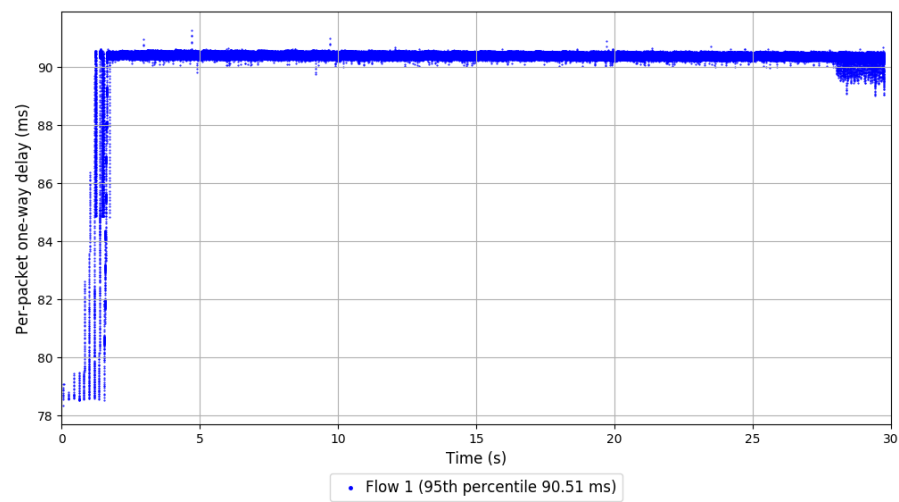
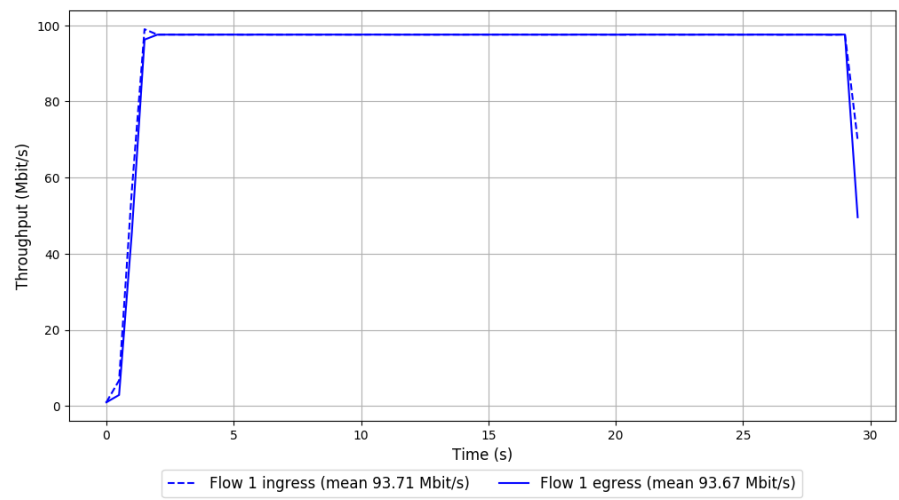
-- Flow 1:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 90.509 ms

Loss rate: 0.68%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 02:26:24

End at: 2018-04-17 02:26:54

Local clock offset: -4.264 ms

Remote clock offset: 5.623 ms

Below is generated by plot.py at 2018-04-17 08:42:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 91.501 ms

Loss rate: 0.66%

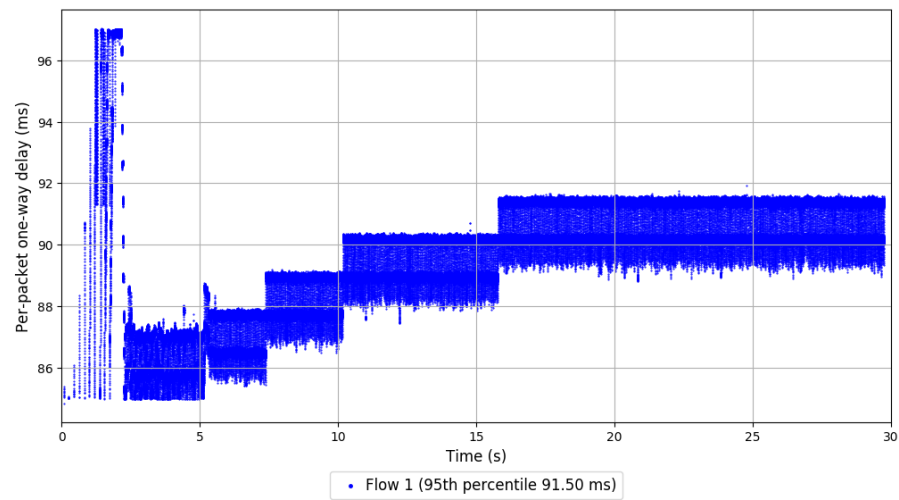
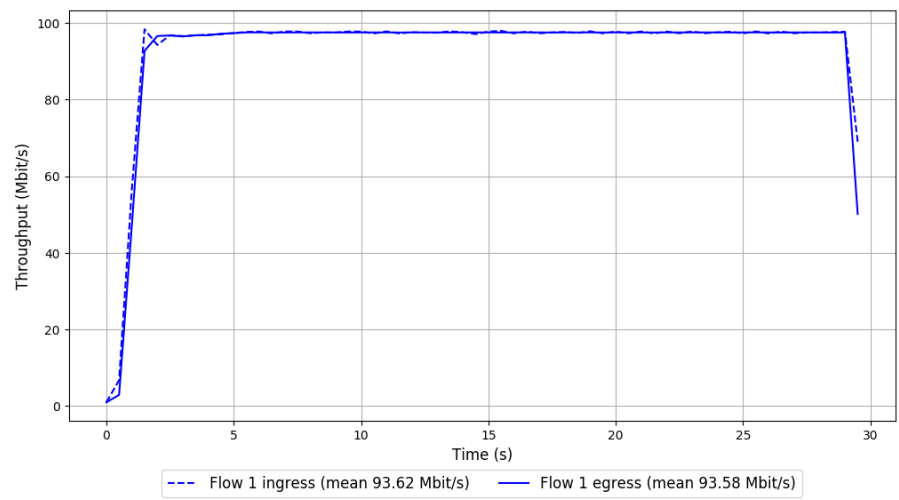
-- Flow 1:

Average throughput: 93.58 Mbit/s

95th percentile per-packet one-way delay: 91.501 ms

Loss rate: 0.66%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 02:47:18

End at: 2018-04-17 02:47:48

Local clock offset: -4.11 ms

Remote clock offset: 5.861 ms

Below is generated by plot.py at 2018-04-17 08:42:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.57 Mbit/s

95th percentile per-packet one-way delay: 91.170 ms

Loss rate: 0.62%

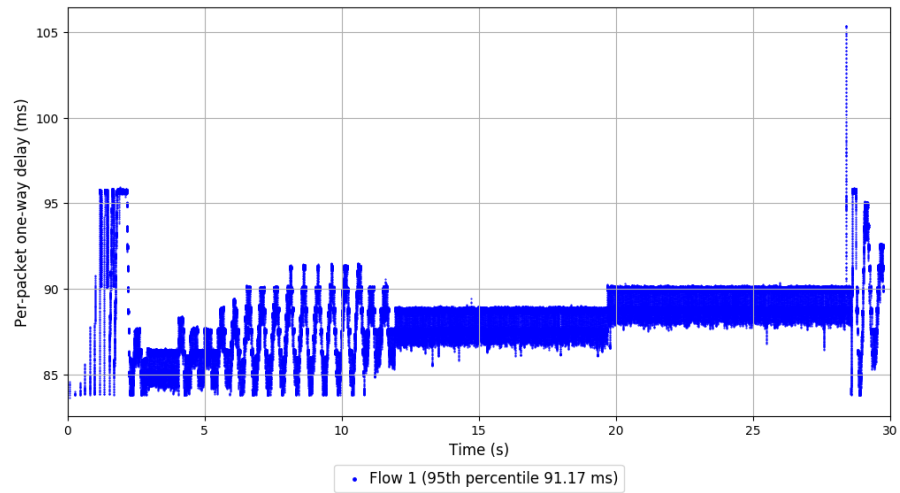
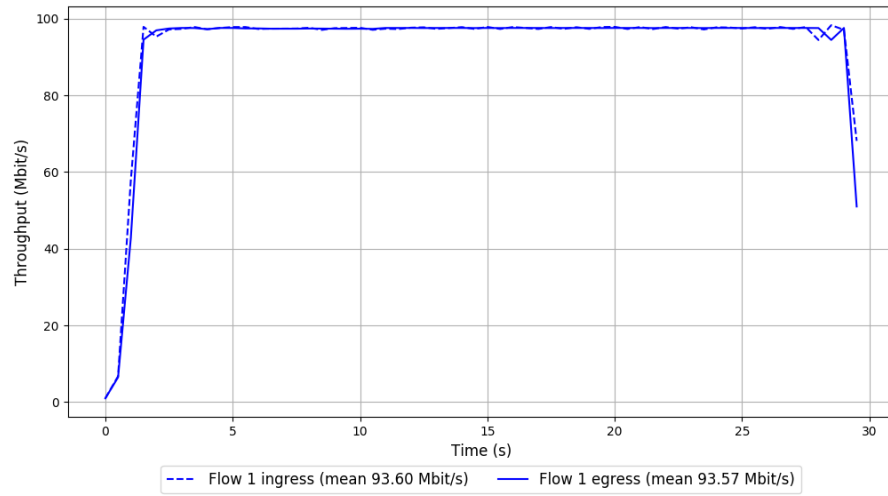
-- Flow 1:

Average throughput: 93.57 Mbit/s

95th percentile per-packet one-way delay: 91.170 ms

Loss rate: 0.62%

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

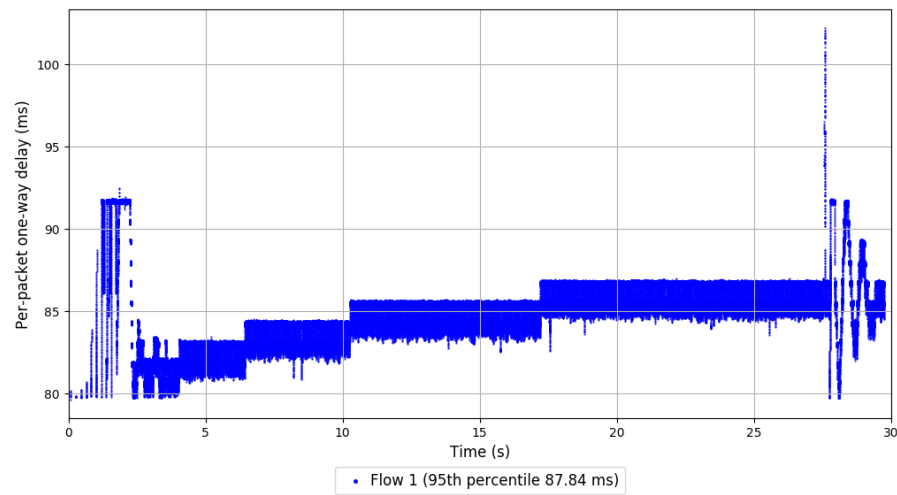
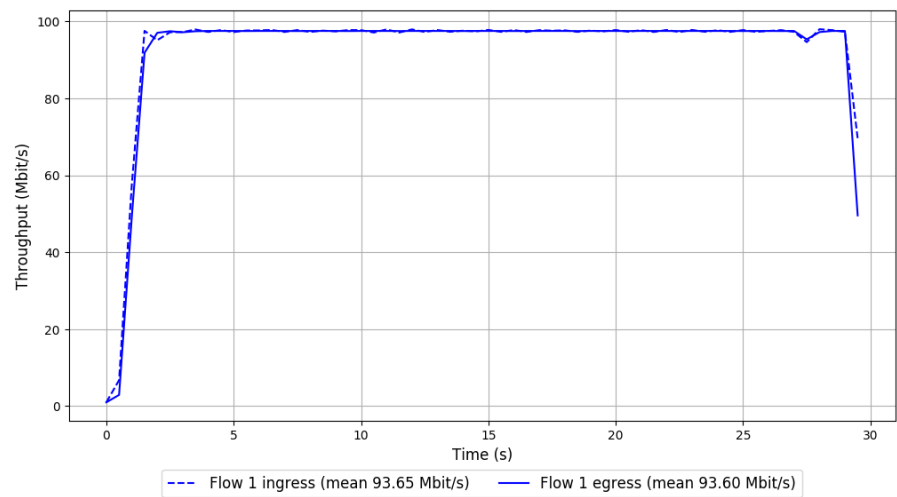


Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 03:08:09
End at: 2018-04-17 03:08:39
Local clock offset: -4.268 ms
Remote clock offset: 11.191 ms

Below is generated by plot.py at 2018-04-17 08:42:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 0.66%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 03:29:00

End at: 2018-04-17 03:29:30

Local clock offset: -4.396 ms

Remote clock offset: 5.043 ms

Below is generated by plot.py at 2018-04-17 08:43:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 96.069 ms

Loss rate: 0.66%

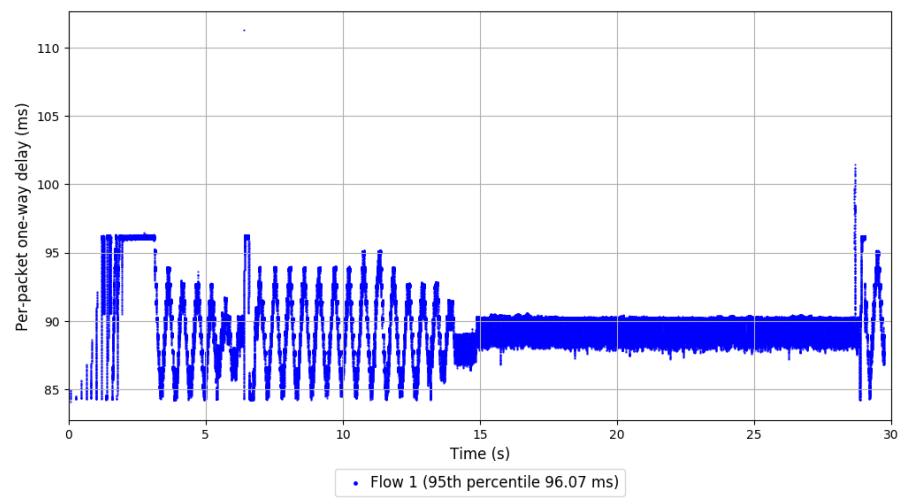
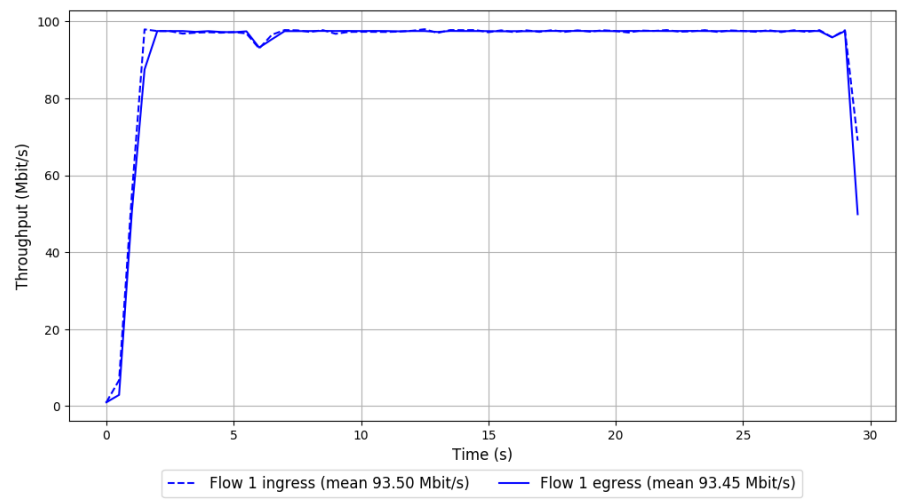
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 96.069 ms

Loss rate: 0.66%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 03:49:53

End at: 2018-04-17 03:50:23

Local clock offset: -5.06 ms

Remote clock offset: 9.306 ms

Below is generated by plot.py at 2018-04-17 08:43:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 88.359 ms

Loss rate: 0.66%

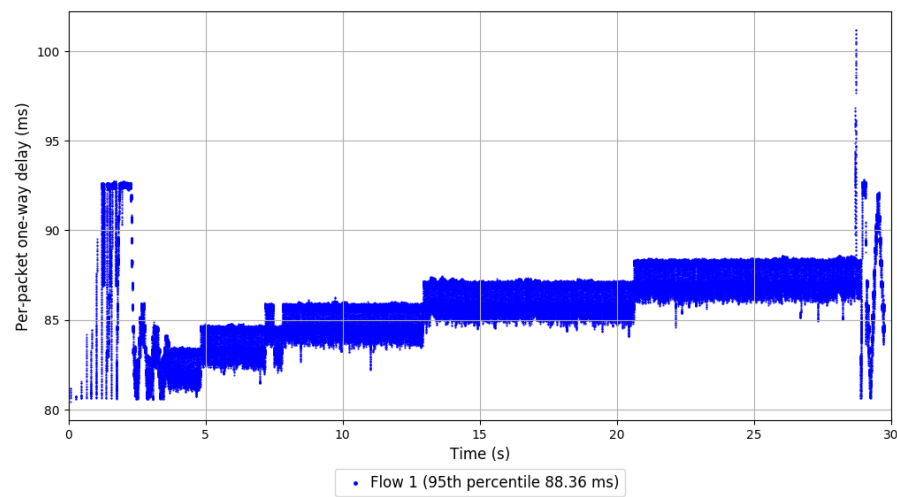
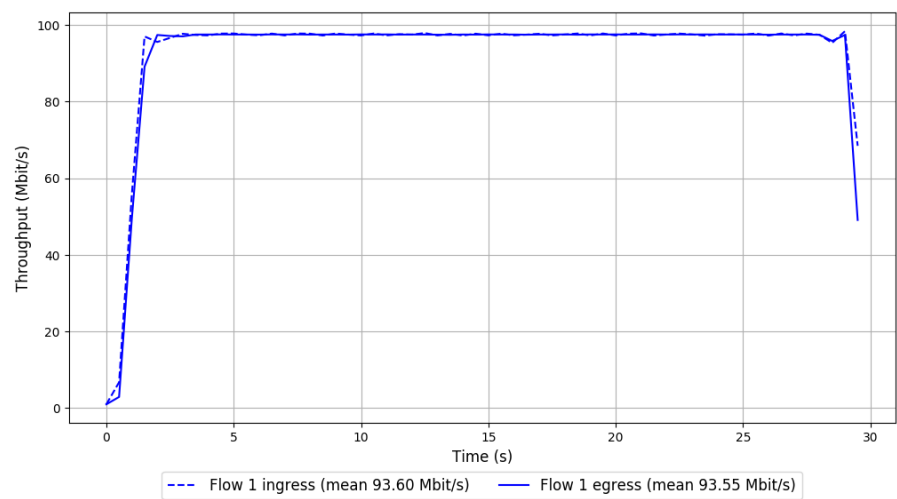
-- Flow 1:

Average throughput: 93.55 Mbit/s

95th percentile per-packet one-way delay: 88.359 ms

Loss rate: 0.66%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 04:10:47

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

Local clock offset: -6.408 ms

Remote clock offset: 4.817 ms

Below is generated by plot.py at 2018-04-17 08:43:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 95.043 ms

Loss rate: 0.66%

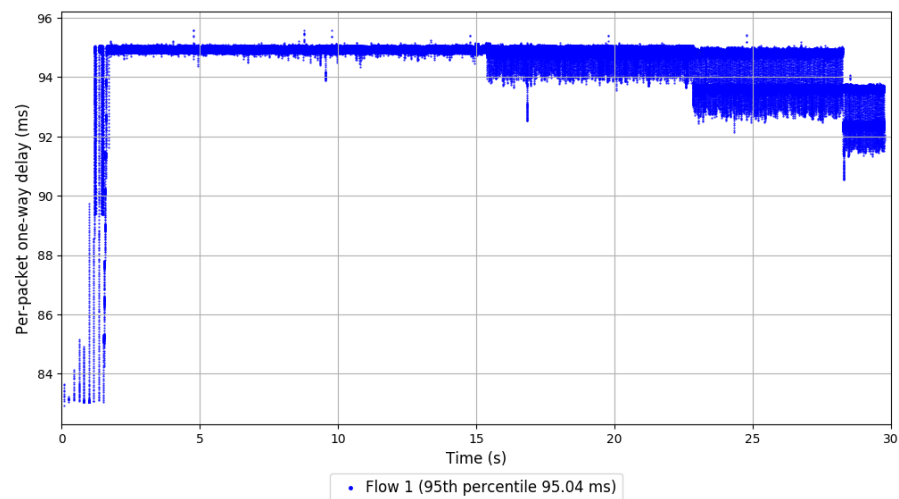
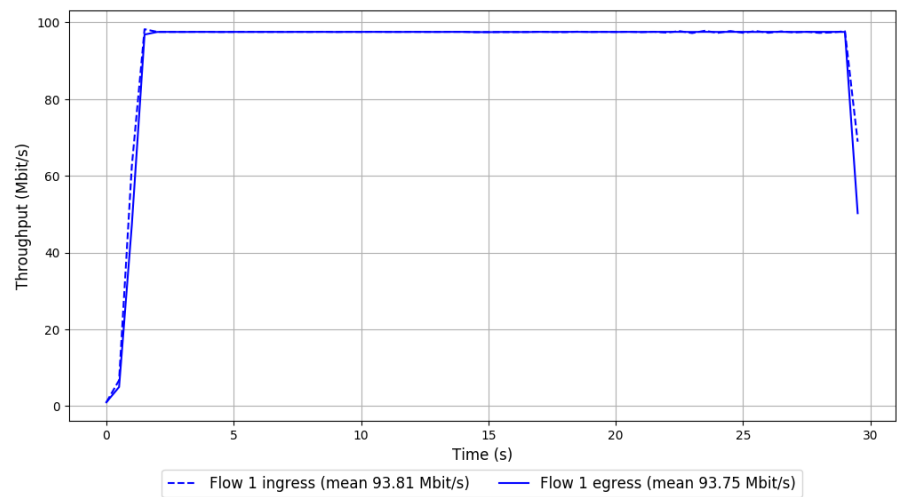
-- Flow 1:

Average throughput: 93.75 Mbit/s

95th percentile per-packet one-way delay: 95.043 ms

Loss rate: 0.66%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 04:31:45

End at: 2018-04-17 04:32:15

Local clock offset: -4.66 ms

Remote clock offset: 11.979 ms

Below is generated by plot.py at 2018-04-17 08:43:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 91.991 ms

Loss rate: 0.67%

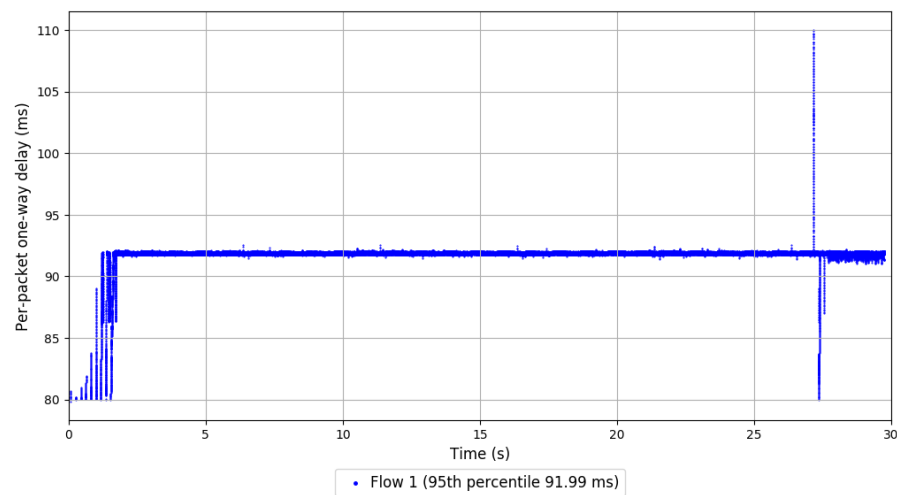
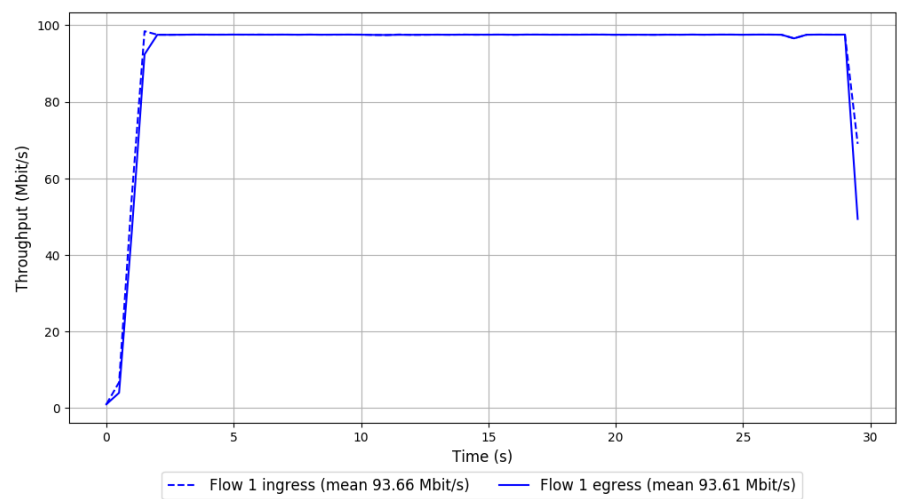
-- Flow 1:

Average throughput: 93.61 Mbit/s

95th percentile per-packet one-way delay: 91.991 ms

Loss rate: 0.67%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 01:30:59

End at: 2018-04-17 01:31:29

Local clock offset: -4.765 ms

Remote clock offset: 5.415 ms

Below is generated by plot.py at 2018-04-17 08:43:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.29 Mbit/s

95th percentile per-packet one-way delay: 97.887 ms

Loss rate: 0.76%

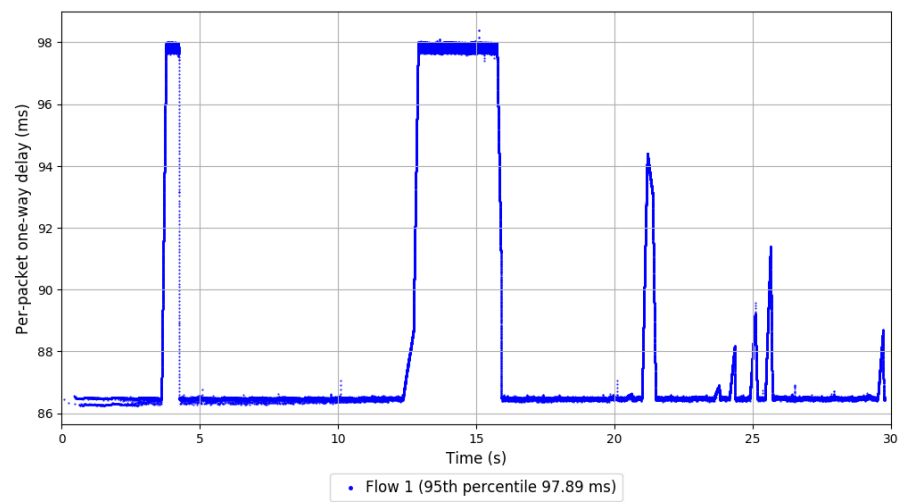
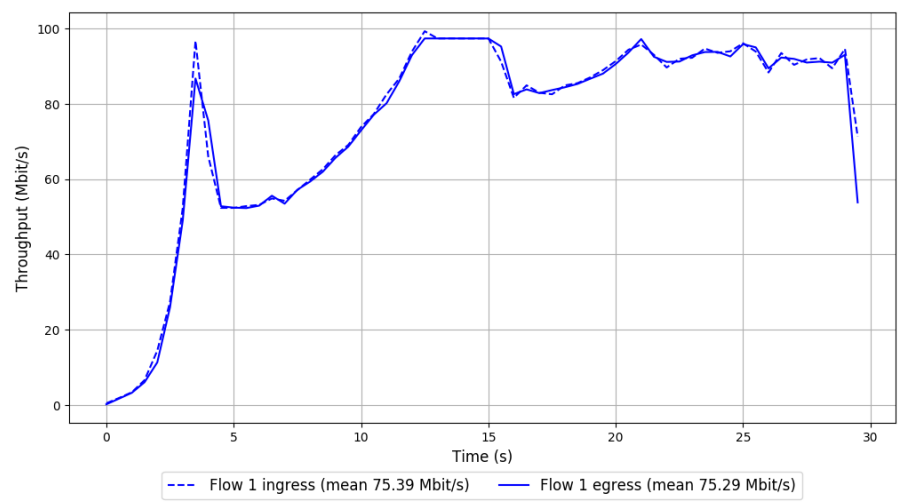
-- Flow 1:

Average throughput: 75.29 Mbit/s

95th percentile per-packet one-way delay: 97.887 ms

Loss rate: 0.76%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 01:51:51

End at: 2018-04-17 01:52:21

Local clock offset: -5.427 ms

Remote clock offset: 6.189 ms

Below is generated by plot.py at 2018-04-17 08:43:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.33 Mbit/s

95th percentile per-packet one-way delay: 97.324 ms

Loss rate: 0.74%

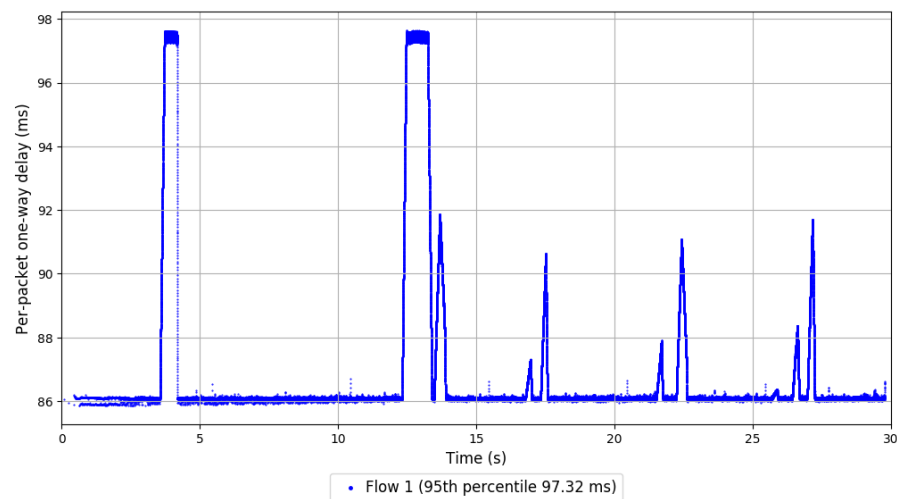
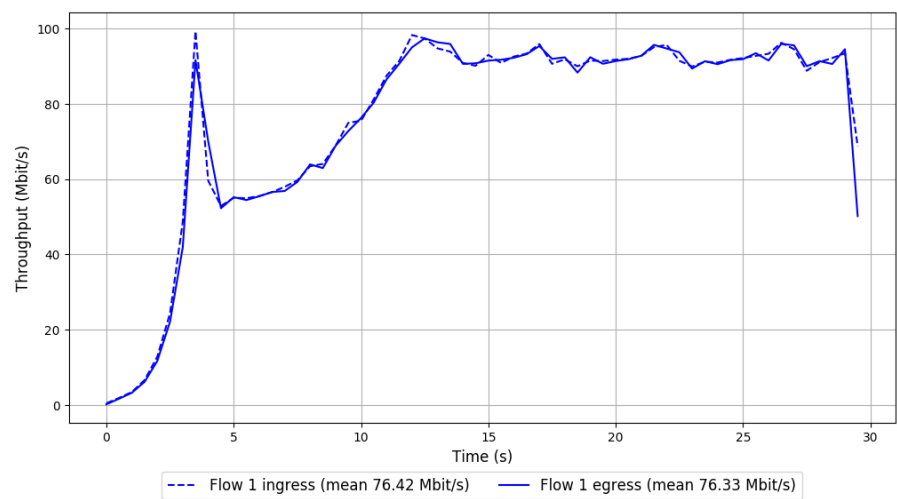
-- Flow 1:

Average throughput: 76.33 Mbit/s

95th percentile per-packet one-way delay: 97.324 ms

Loss rate: 0.74%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 02:12:43

End at: 2018-04-17 02:13:13

Local clock offset: -4.035 ms

Remote clock offset: 6.594 ms

Below is generated by plot.py at 2018-04-17 08:44:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.38 Mbit/s

95th percentile per-packet one-way delay: 95.846 ms

Loss rate: 0.73%

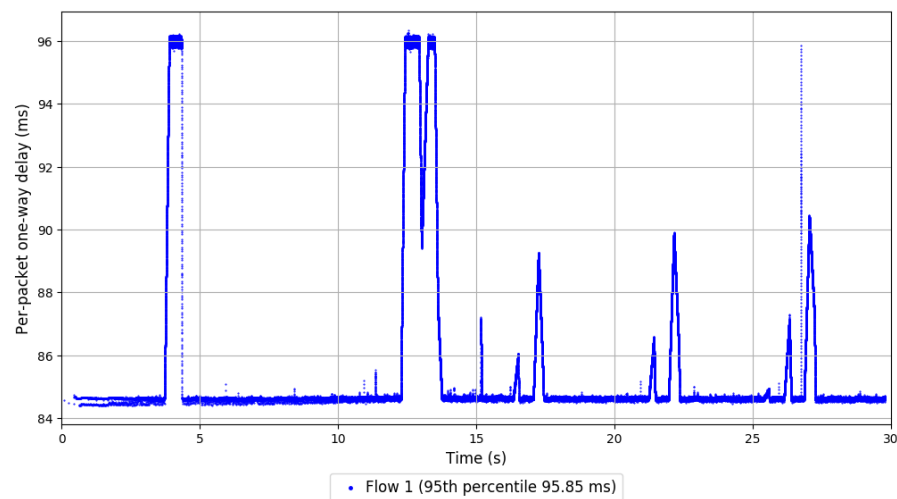
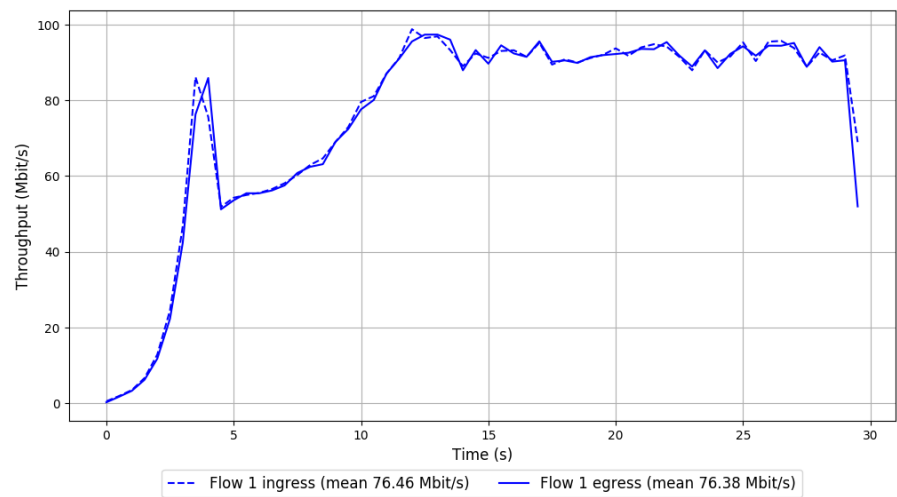
-- Flow 1:

Average throughput: 76.38 Mbit/s

95th percentile per-packet one-way delay: 95.846 ms

Loss rate: 0.73%

Run 3: Report of PCC-Vivace — Data Link

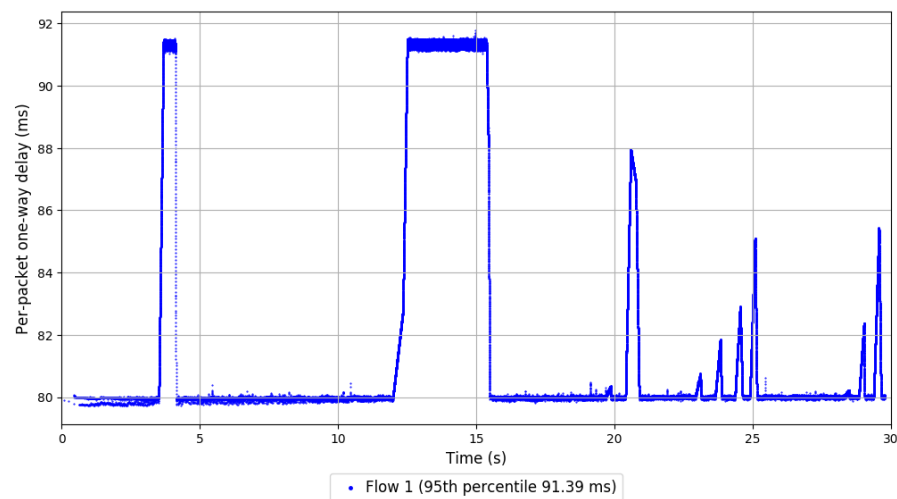
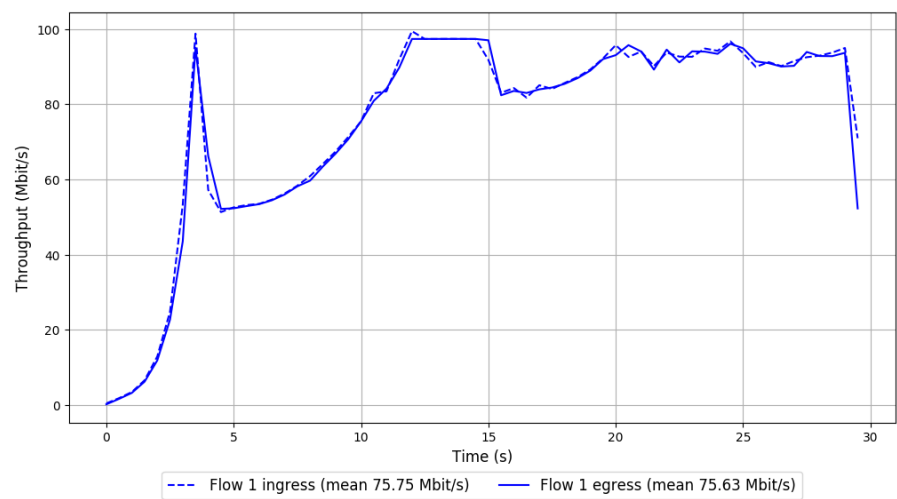


Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 02:33:38
End at: 2018-04-17 02:34:08
Local clock offset: -3.266 ms
Remote clock offset: 11.269 ms

Below is generated by plot.py at 2018-04-17 08:44:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.63 Mbit/s
95th percentile per-packet one-way delay: 91.386 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 75.63 Mbit/s
95th percentile per-packet one-way delay: 91.386 ms
Loss rate: 0.77%

Run 4: Report of PCC-Vivace — Data Link

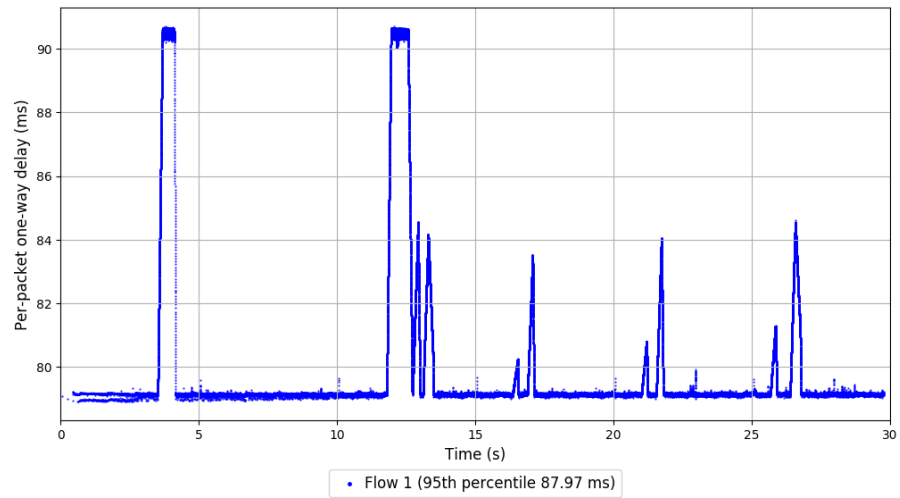
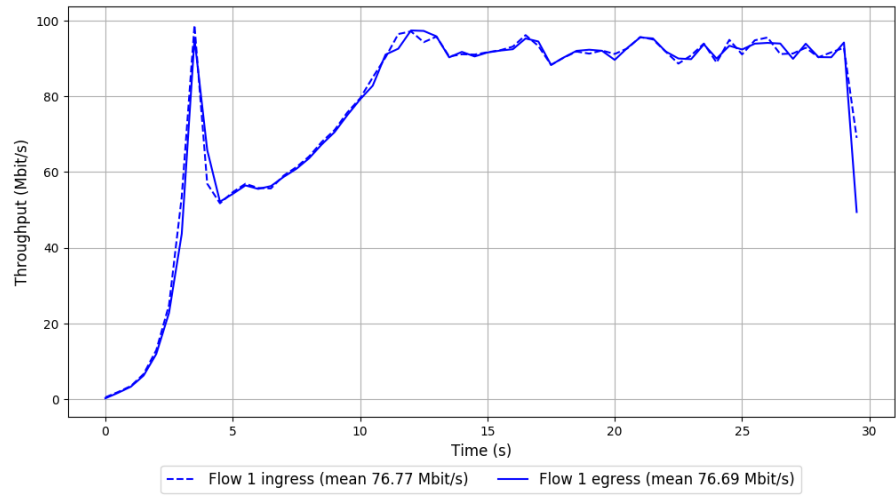


Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 02:54:32
End at: 2018-04-17 02:55:02
Local clock offset: -4.944 ms
Remote clock offset: 11.434 ms

Below is generated by plot.py at 2018-04-17 08:44:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 87.973 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 87.973 ms
Loss rate: 0.73%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 03:15:23

End at: 2018-04-17 03:15:53

Local clock offset: -4.344 ms

Remote clock offset: 9.579 ms

Below is generated by plot.py at 2018-04-17 08:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 92.299 ms

Loss rate: 0.81%

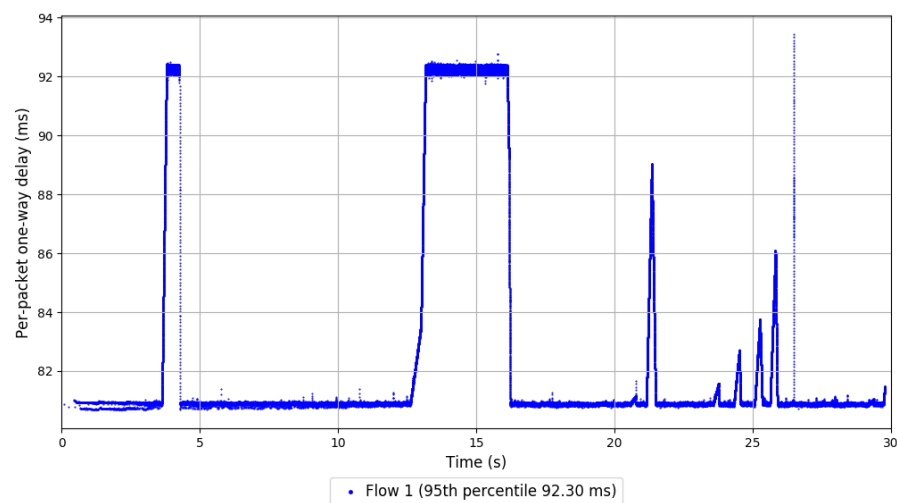
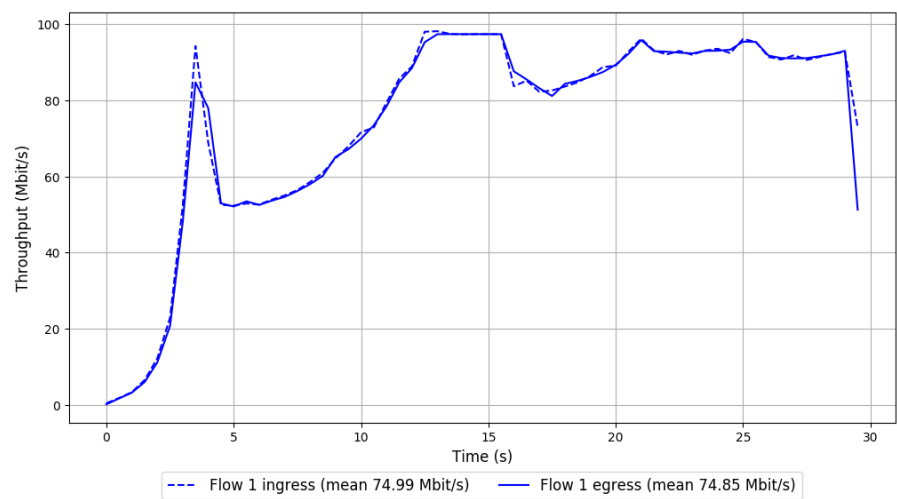
-- Flow 1:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 92.299 ms

Loss rate: 0.81%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 03:36:13

End at: 2018-04-17 03:36:43

Local clock offset: -3.636 ms

Remote clock offset: 9.615 ms

Below is generated by plot.py at 2018-04-17 08:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 91.767 ms

Loss rate: 0.83%

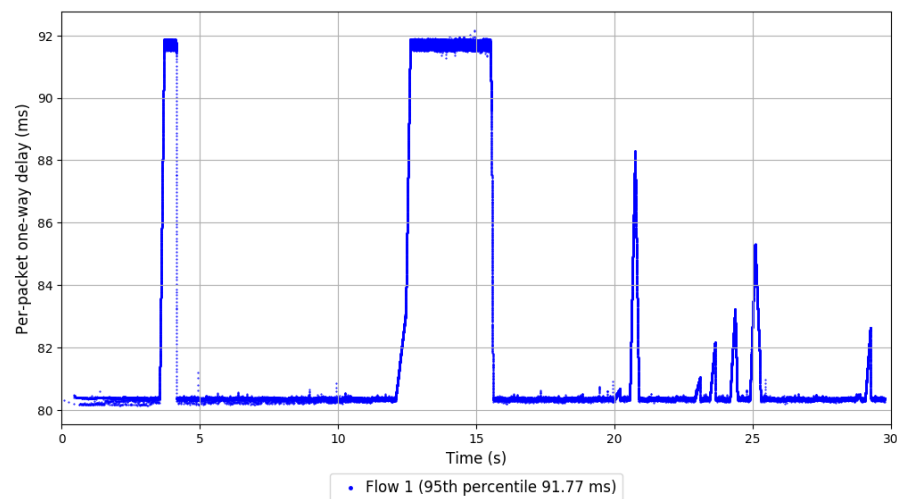
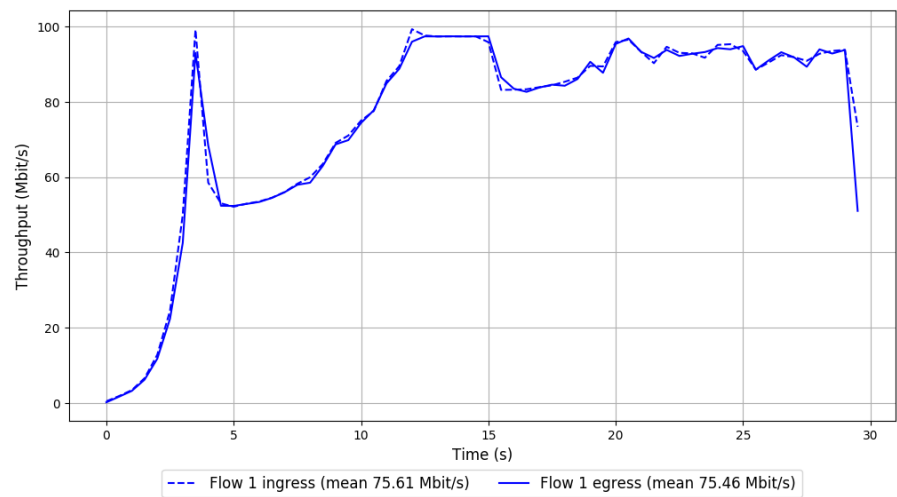
-- Flow 1:

Average throughput: 75.46 Mbit/s

95th percentile per-packet one-way delay: 91.767 ms

Loss rate: 0.83%

Run 7: Report of PCC-Vivace — Data Link

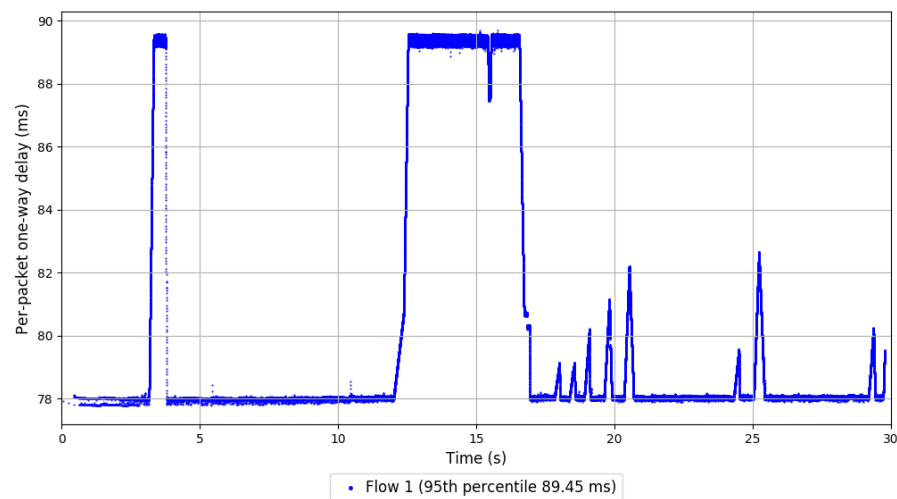
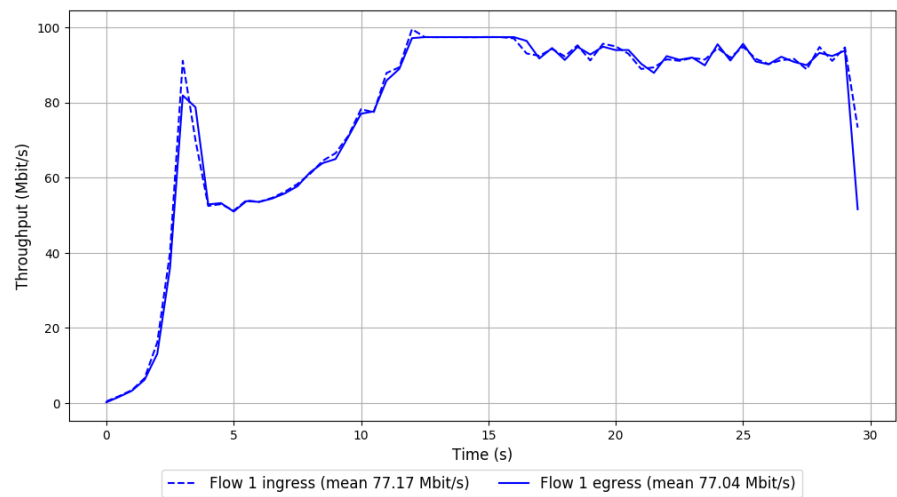


Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 03:57:07
End at: 2018-04-17 03:57:37
Local clock offset: -4.616 ms
Remote clock offset: 11.129 ms

Below is generated by plot.py at 2018-04-17 08:44:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 89.448 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 89.448 ms
Loss rate: 0.79%

Run 8: Report of PCC-Vivace — Data Link

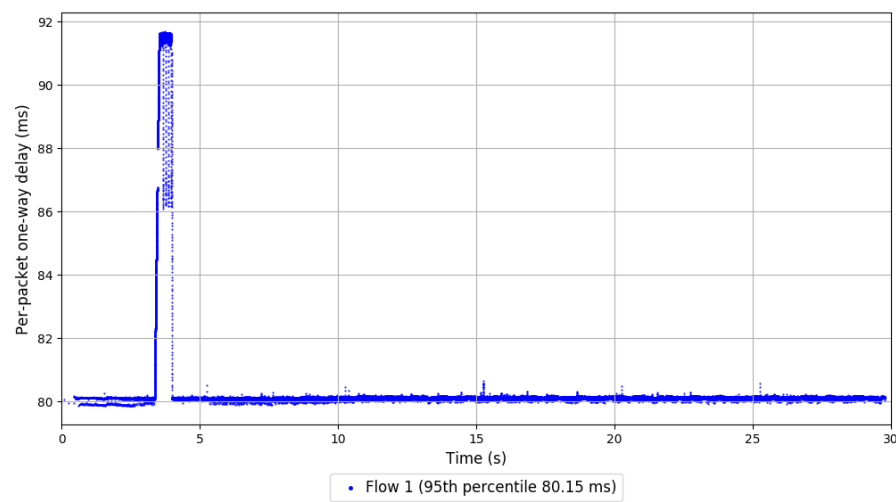
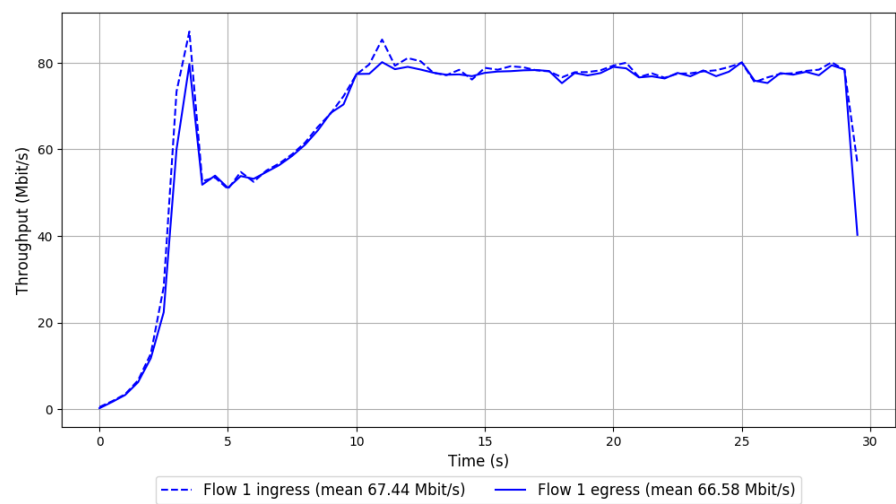


Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 04:18:02
End at: 2018-04-17 04:18:32
Local clock offset: -6.259 ms
Remote clock offset: 10.078 ms

Below is generated by plot.py at 2018-04-17 08:44:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 80.146 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 66.58 Mbit/s
95th percentile per-packet one-way delay: 80.146 ms
Loss rate: 1.90%

Run 9: Report of PCC-Vivace — Data Link

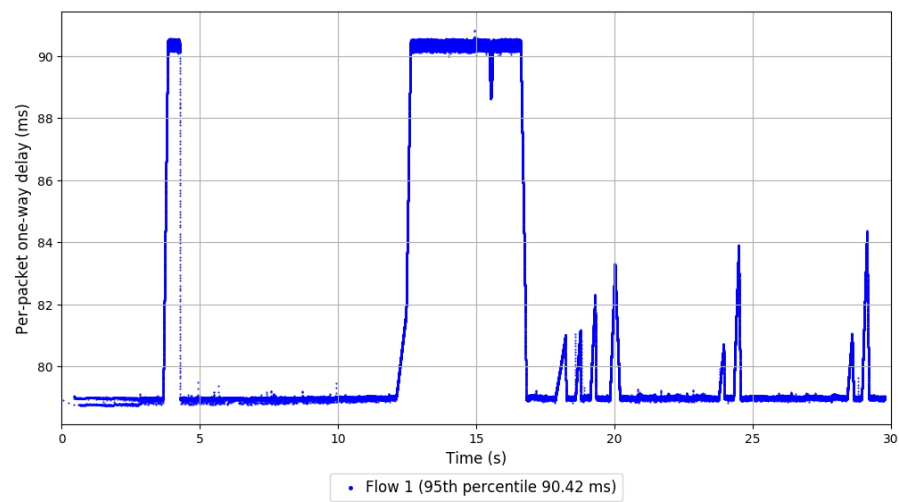
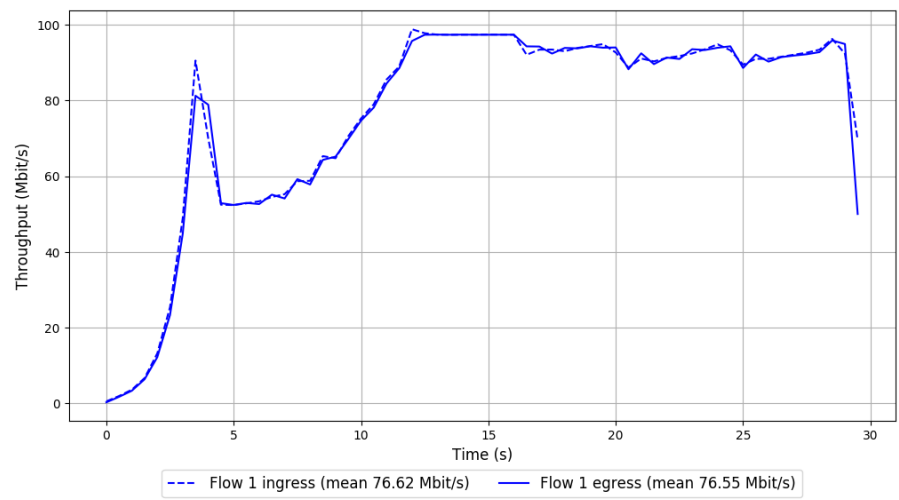


Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 04:38:59
End at: 2018-04-17 04:39:29
Local clock offset: -3.636 ms
Remote clock offset: 12.238 ms

Below is generated by plot.py at 2018-04-17 08:44:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.55 Mbit/s
95th percentile per-packet one-way delay: 90.424 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 76.55 Mbit/s
95th percentile per-packet one-way delay: 90.424 ms
Loss rate: 0.73%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 01:25:02

End at: 2018-04-17 01:25:32

Local clock offset: -5.677 ms

Remote clock offset: 5.732 ms

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 01:45:54

End at: 2018-04-17 01:46:24

Local clock offset: -5.443 ms

Remote clock offset: 6.078 ms

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 02:06:46

End at: 2018-04-17 02:07:16

Local clock offset: -4.503 ms

Remote clock offset: 11.572 ms

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 02:27:41

End at: 2018-04-17 02:28:11

Local clock offset: -3.442 ms

Remote clock offset: 10.432 ms

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 02:48:35

End at: 2018-04-17 02:49:05

Local clock offset: -3.414 ms

Remote clock offset: 12.213 ms

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 03:09:26

End at: 2018-04-17 03:09:56

Local clock offset: -3.477 ms

Remote clock offset: 10.965 ms

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 03:30:16

End at: 2018-04-17 03:30:46

Local clock offset: -3.656 ms

Remote clock offset: 5.042 ms

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 03:51:10

End at: 2018-04-17 03:51:40

Local clock offset: -5.914 ms

Remote clock offset: 11.151 ms

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 04:12:04

End at: 2018-04-17 04:12:34

Local clock offset: -4.947 ms

Remote clock offset: 4.682 ms

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 04:33:01

End at: 2018-04-17 04:33:31

Local clock offset: -4.625 ms

Remote clock offset: 12.87 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing