

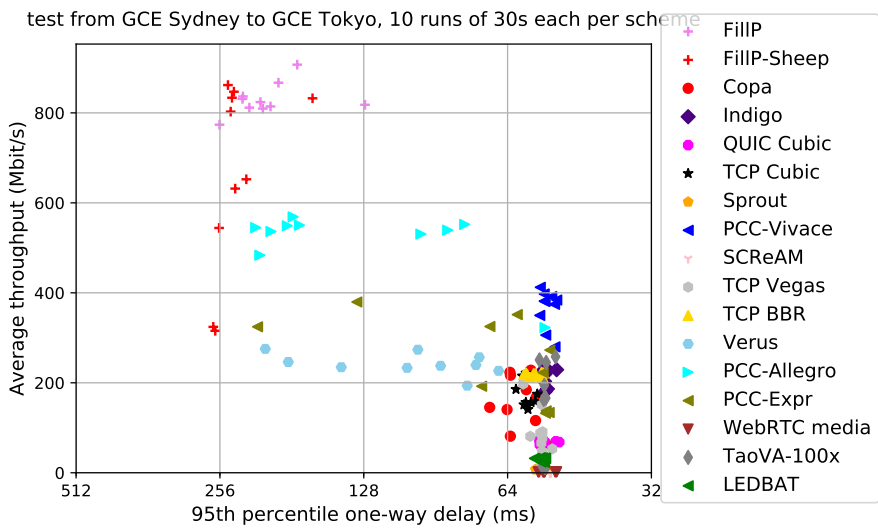
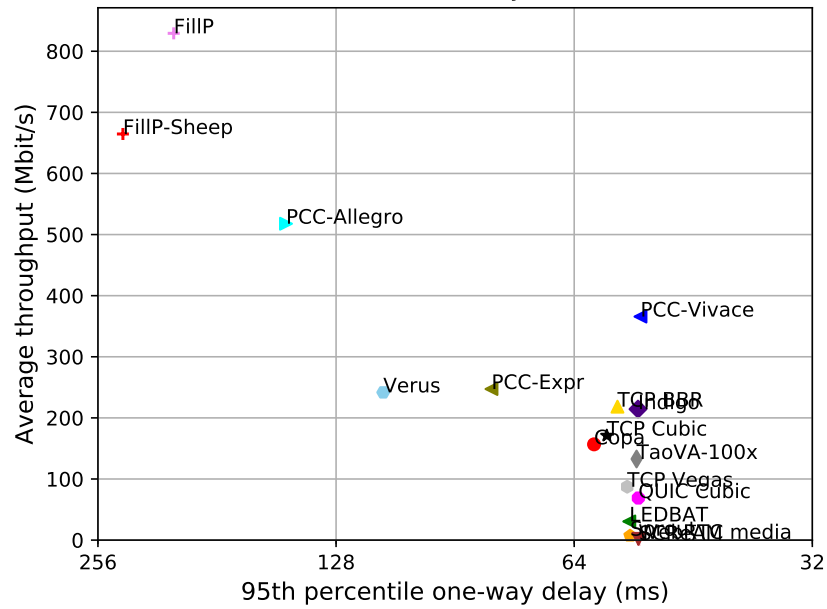
Pantheon Report

Generated at 2018-07-12 03:36:59 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against `time.google.com` and have been applied
to correct the timestamps in logs.

Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Sydney to GCE Tokyo, 10 runs of 30s each per scheme
(mean of all runs by 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	218.40	56.43	0.00
Copa	10	156.71	60.40	0.00
TCP Cubic	10	171.00	58.21	0.02
FillP	10	829.30	205.34	1.69
FillP-Sheep	10	664.59	238.05	4.06
Indigo	10	214.37	53.15	0.01
LEDBAT	10	30.51	54.52	0.01
PCC-Allegro	10	517.74	148.07	1.43
PCC-Expr	10	247.25	81.43	0.46
QUIC Cubic	7	68.84	53.10	0.01
SCReAM	10	0.21	53.00	0.00
Sprout	10	7.21	54.39	0.01
TaoVA-100x	10	132.74	53.37	0.01
TCP Vegas	10	87.33	54.85	0.00
Verus	10	241.74	111.58	0.17
PCC-Vivace	10	365.80	52.78	0.01
WebRTC media	10	1.99	53.09	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-07-11 22:20:59

End at: 2018-07-11 22:21:29

Local clock offset: -0.003 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2018-07-12 01:57:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.03 Mbit/s

95th percentile per-packet one-way delay: 56.283 ms

Loss rate: 0.00%

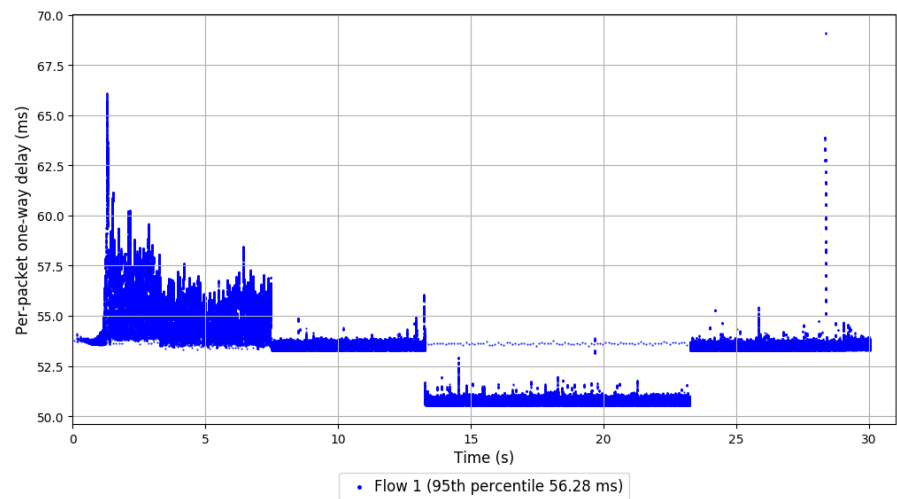
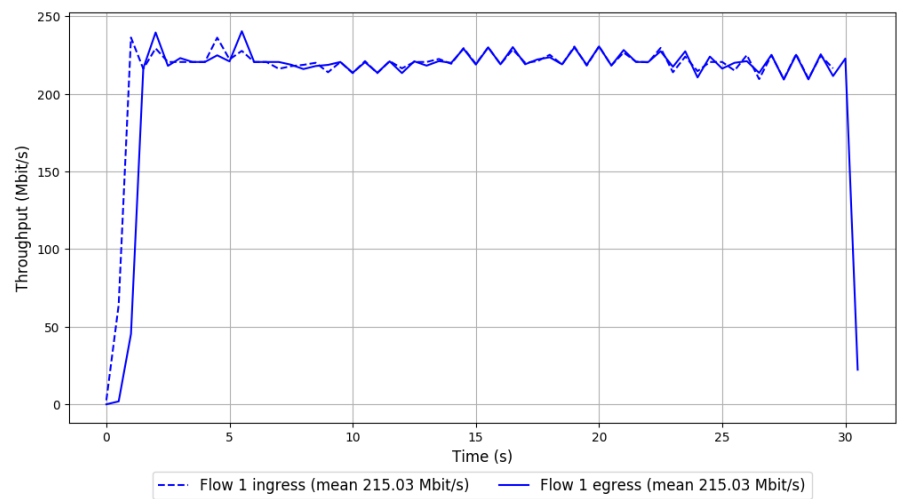
-- Flow 1:

Average throughput: 215.03 Mbit/s

95th percentile per-packet one-way delay: 56.283 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-11 22:42:35

End at: 2018-07-11 22:43:05

Local clock offset: 0.04 ms

Remote clock offset: 0.145 ms

Below is generated by plot.py at 2018-07-12 01:57:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.54 Mbit/s

95th percentile per-packet one-way delay: 59.162 ms

Loss rate: 0.00%

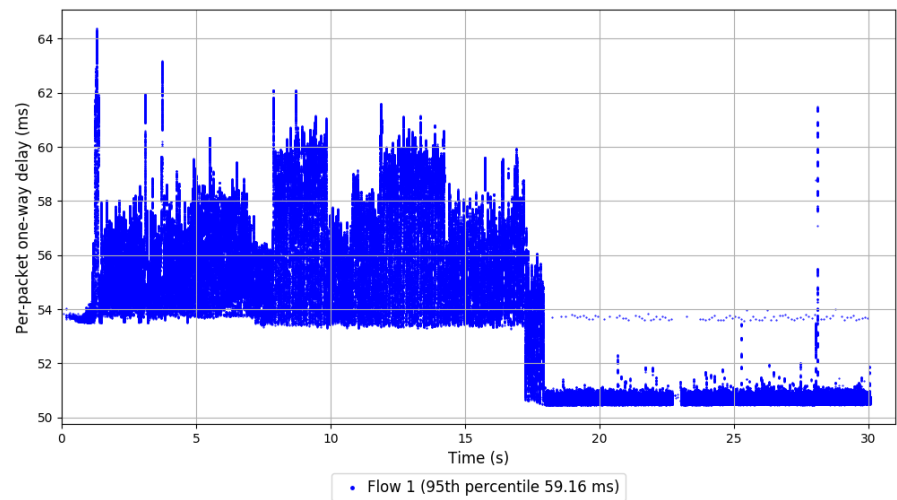
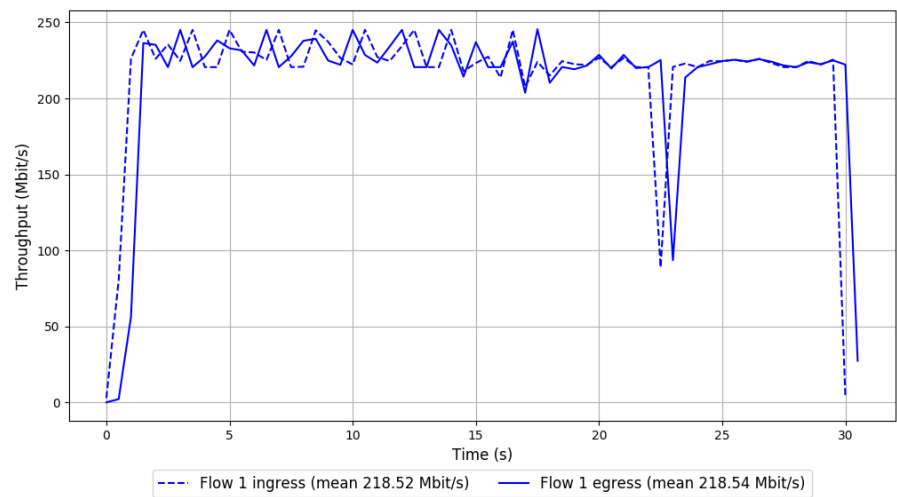
-- Flow 1:

Average throughput: 218.54 Mbit/s

95th percentile per-packet one-way delay: 59.162 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-11 23:04:49

End at: 2018-07-11 23:05:19

Local clock offset: -0.1 ms

Remote clock offset: 1.076 ms

Below is generated by plot.py at 2018-07-12 01:57:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.11 Mbit/s

95th percentile per-packet one-way delay: 58.186 ms

Loss rate: 0.00%

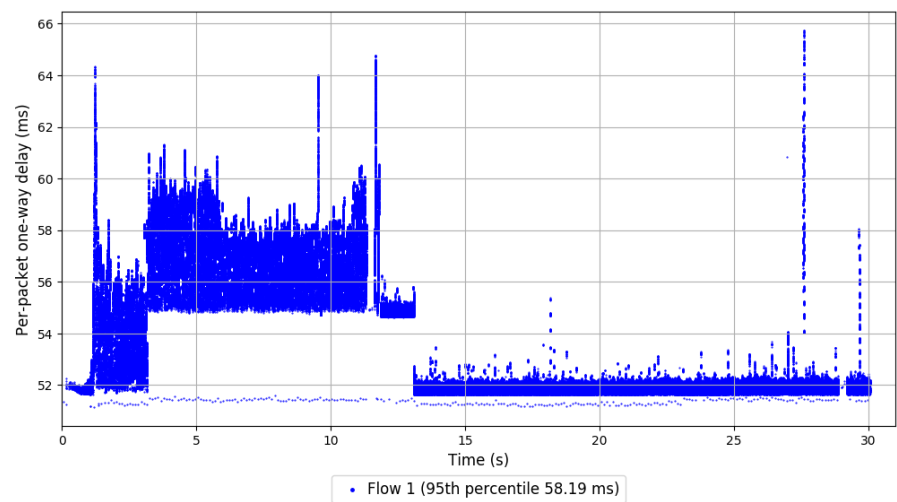
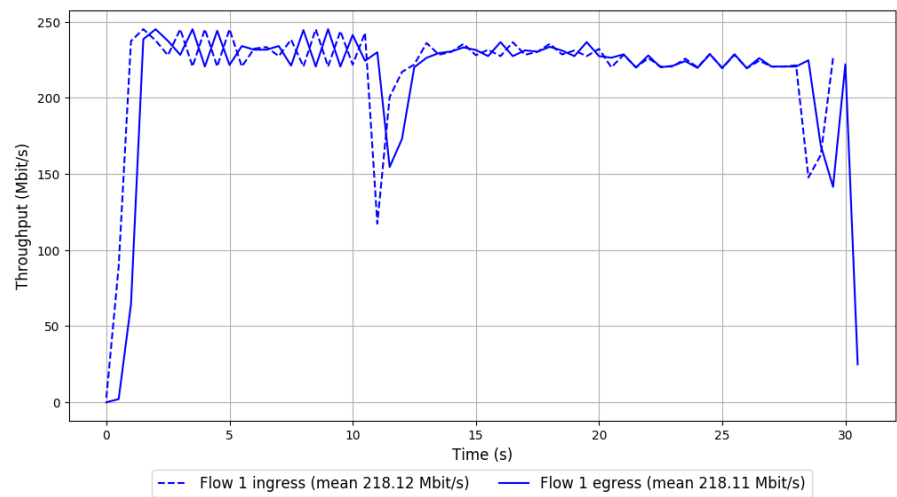
-- Flow 1:

Average throughput: 218.11 Mbit/s

95th percentile per-packet one-way delay: 58.186 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-11 23:26:40

End at: 2018-07-11 23:27:10

Local clock offset: -0.109 ms

Remote clock offset: 1.157 ms

Below is generated by plot.py at 2018-07-12 01:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.68 Mbit/s

95th percentile per-packet one-way delay: 58.528 ms

Loss rate: 0.01%

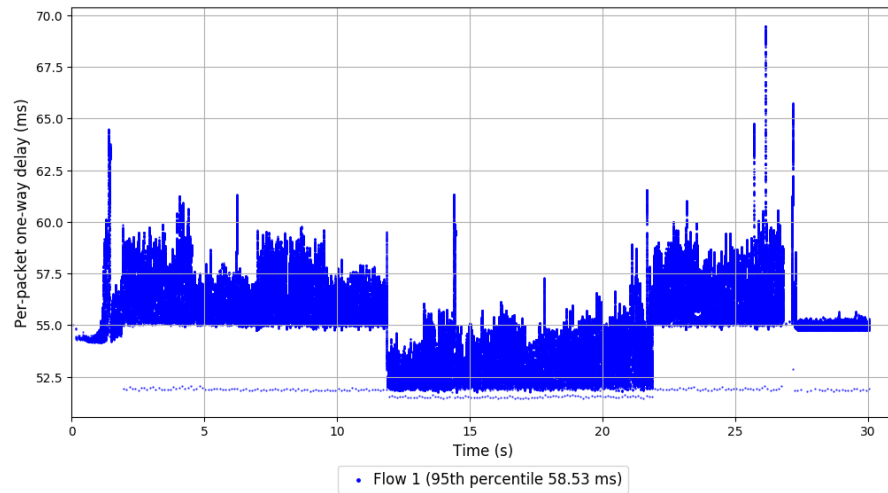
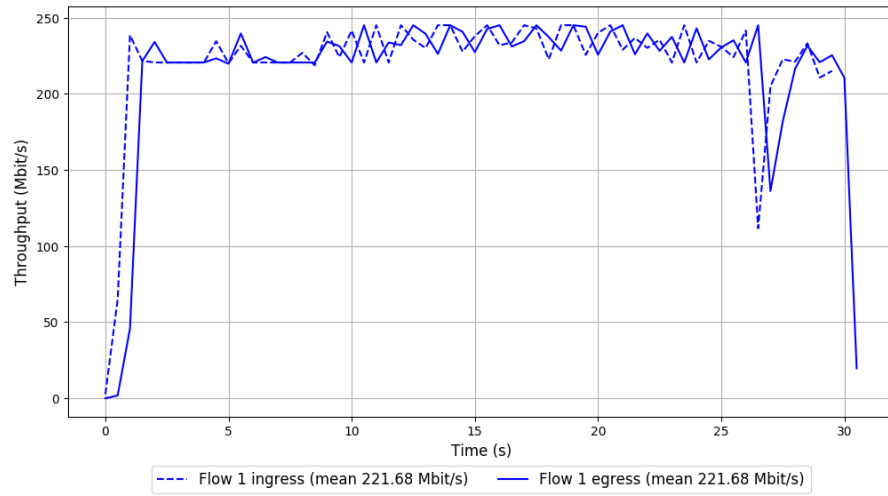
-- Flow 1:

Average throughput: 221.68 Mbit/s

95th percentile per-packet one-way delay: 58.528 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-11 23:48:49

End at: 2018-07-11 23:49:19

Local clock offset: -0.02 ms

Remote clock offset: 1.358 ms

Below is generated by plot.py at 2018-07-12 01:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.37 Mbit/s

95th percentile per-packet one-way delay: 56.008 ms

Loss rate: 0.00%

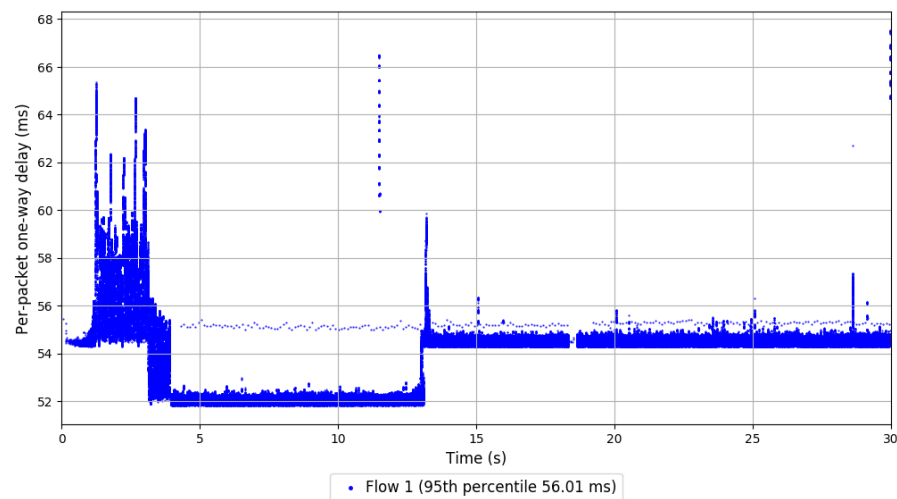
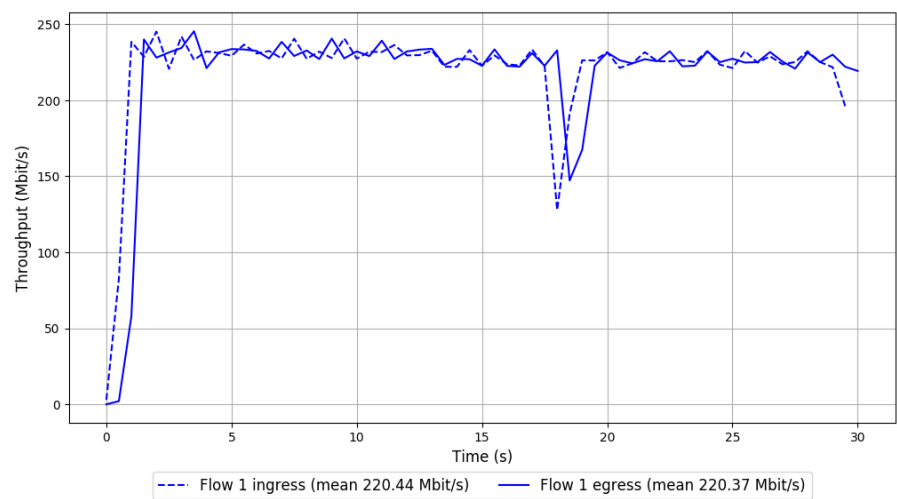
-- Flow 1:

Average throughput: 220.37 Mbit/s

95th percentile per-packet one-way delay: 56.008 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-12 00:10:39

End at: 2018-07-12 00:11:09

Local clock offset: -0.149 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-07-12 01:58:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.14 Mbit/s

95th percentile per-packet one-way delay: 57.477 ms

Loss rate: 0.02%

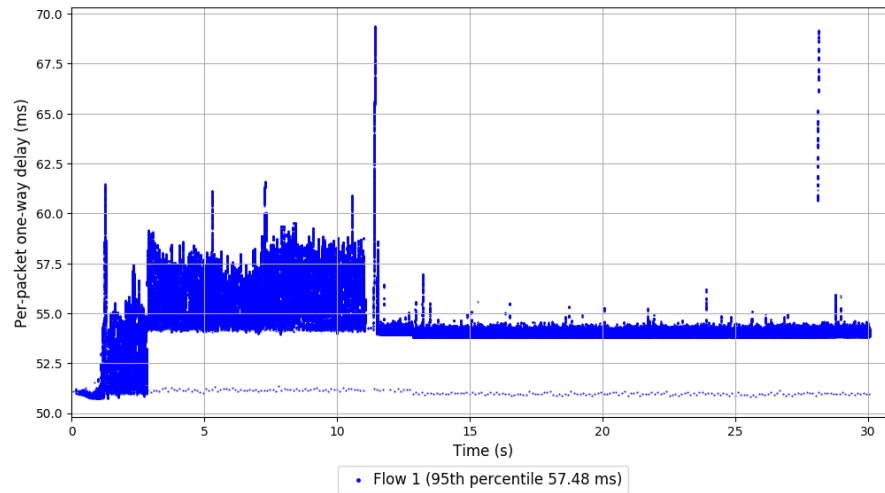
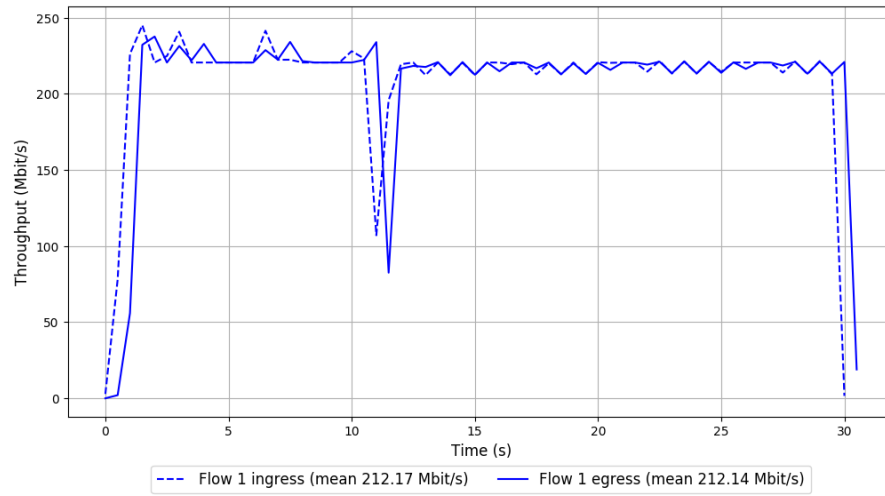
-- Flow 1:

Average throughput: 212.14 Mbit/s

95th percentile per-packet one-way delay: 57.477 ms

Loss rate: 0.02%

Run 6: Report of TCP BBR — Data Link

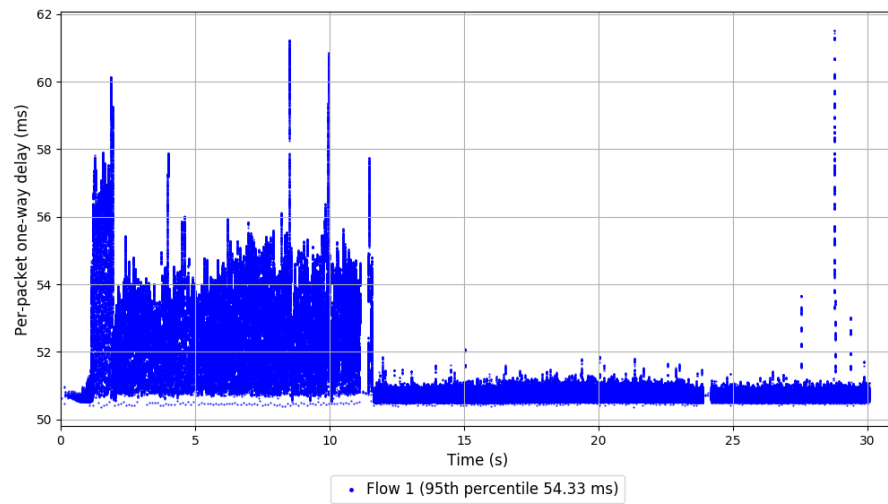
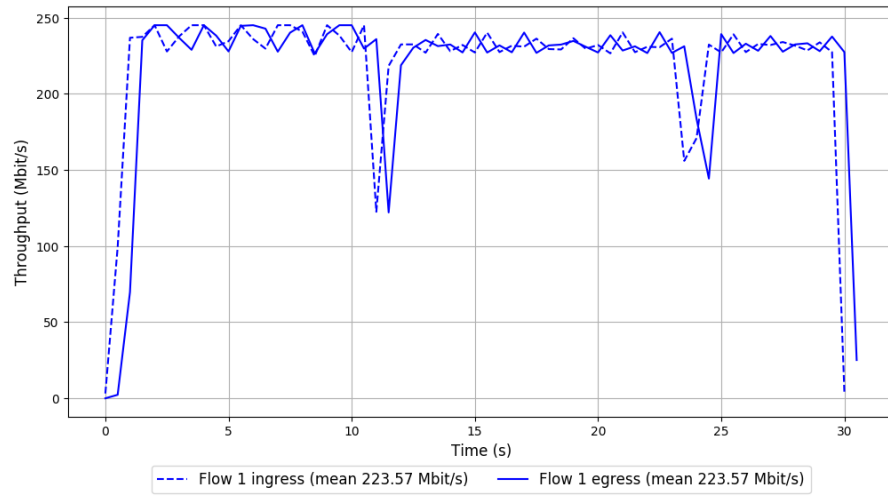


Run 7: Statistics of TCP BBR

Start at: 2018-07-12 00:32:50
End at: 2018-07-12 00:33:20
Local clock offset: -0.303 ms
Remote clock offset: -0.277 ms

Below is generated by plot.py at 2018-07-12 01:58:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.57 Mbit/s
95th percentile per-packet one-way delay: 54.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.57 Mbit/s
95th percentile per-packet one-way delay: 54.332 ms
Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link

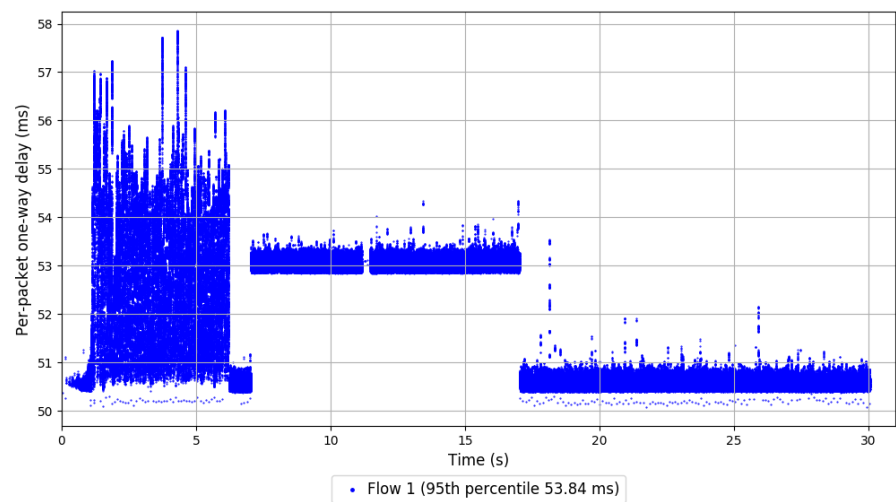
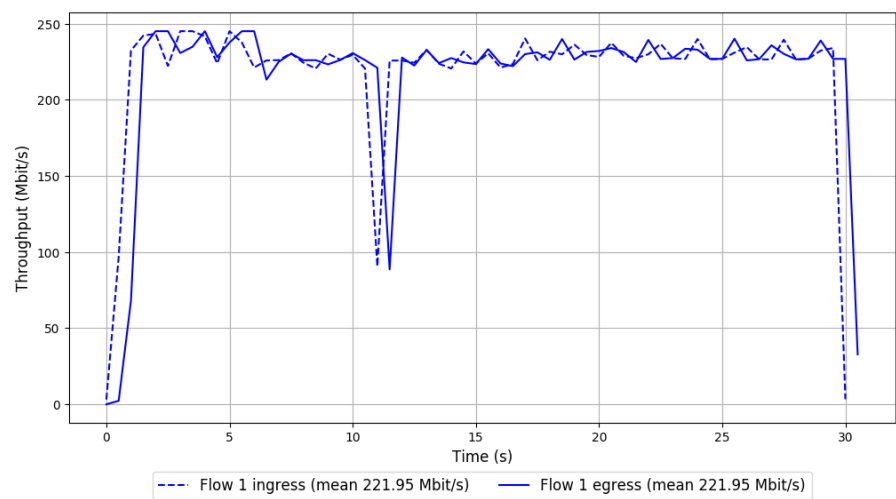


Run 8: Statistics of TCP BBR

Start at: 2018-07-12 00:54:45
End at: 2018-07-12 00:55:15
Local clock offset: 0.072 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-07-12 01:58:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 221.95 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.95 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-12 01:16:15

End at: 2018-07-12 01:16:45

Local clock offset: -0.045 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2018-07-12 02:00:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.25 Mbit/s

95th percentile per-packet one-way delay: 54.005 ms

Loss rate: 0.01%

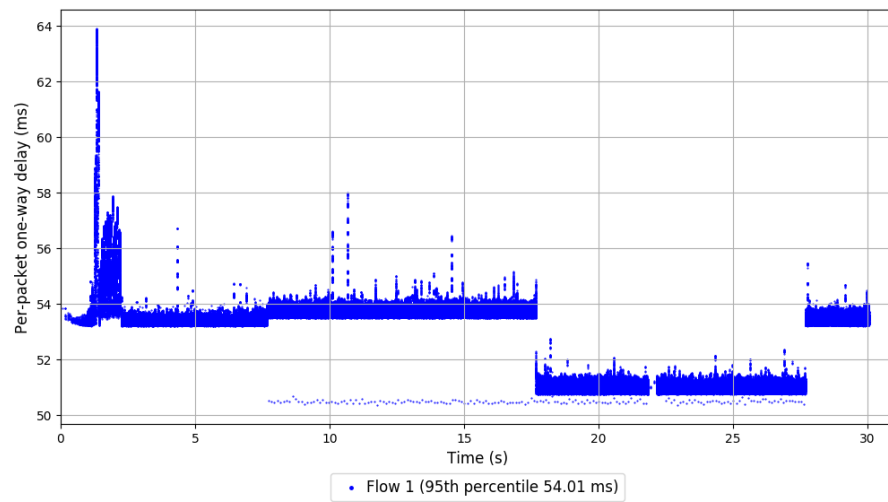
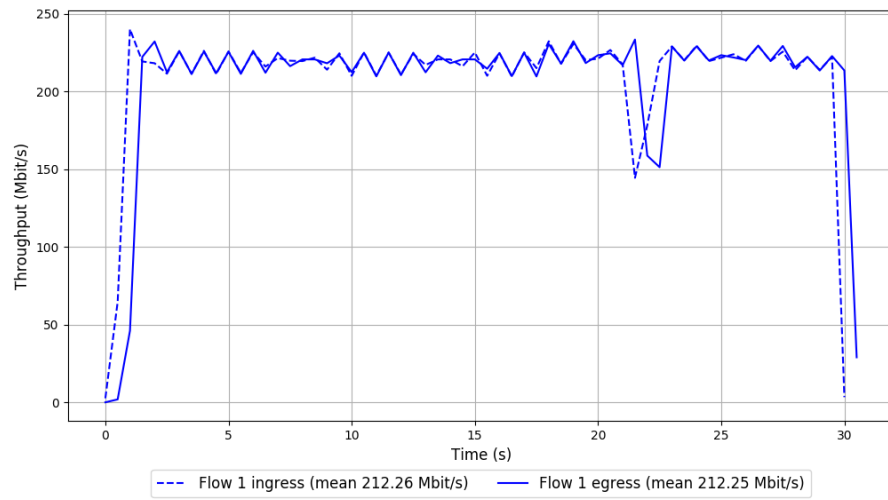
-- Flow 1:

Average throughput: 212.25 Mbit/s

95th percentile per-packet one-way delay: 54.005 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link

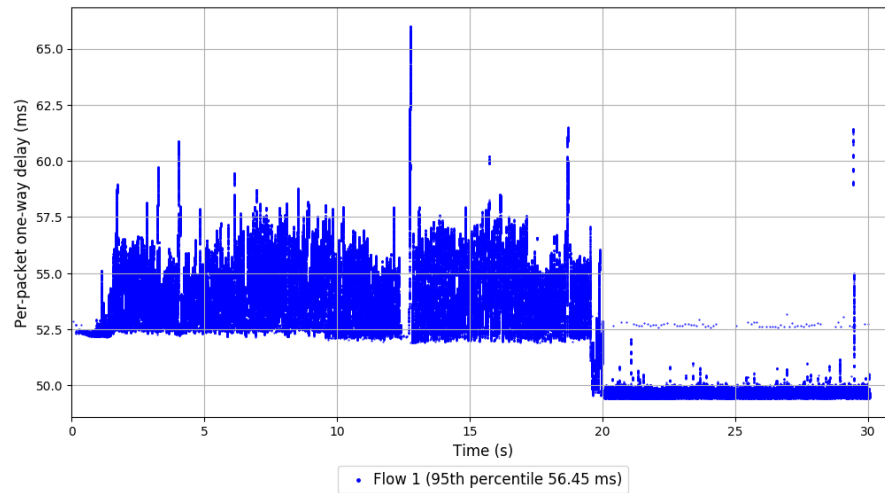
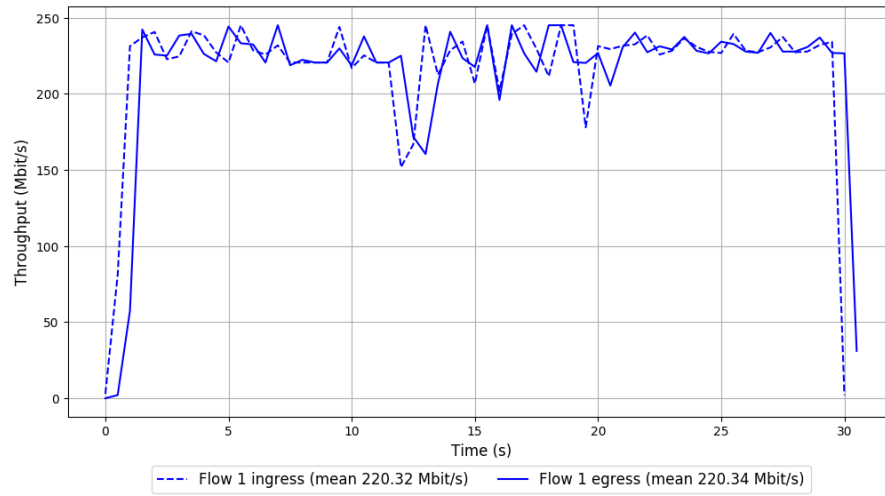


Run 10: Statistics of TCP BBR

Start at: 2018-07-12 01:38:13
End at: 2018-07-12 01:38:43
Local clock offset: -0.231 ms
Remote clock offset: -1.277 ms

Below is generated by plot.py at 2018-07-12 02:00:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.34 Mbit/s
95th percentile per-packet one-way delay: 56.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.34 Mbit/s
95th percentile per-packet one-way delay: 56.452 ms
Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

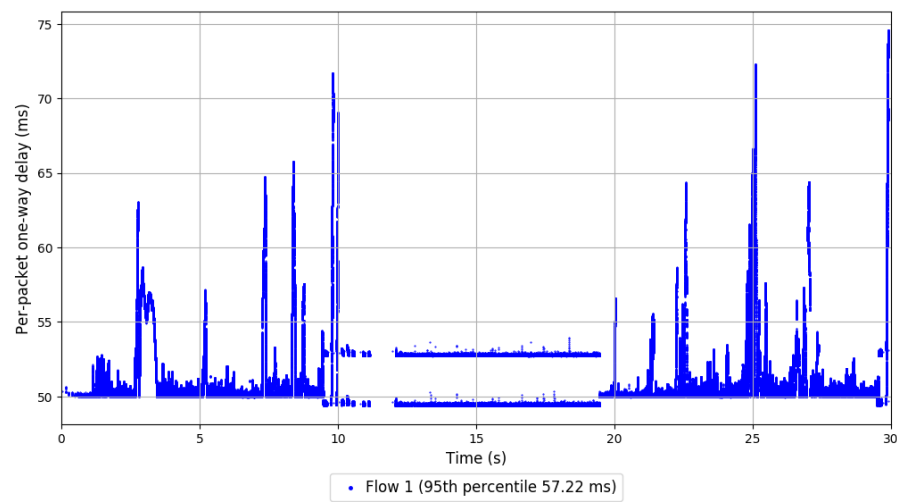
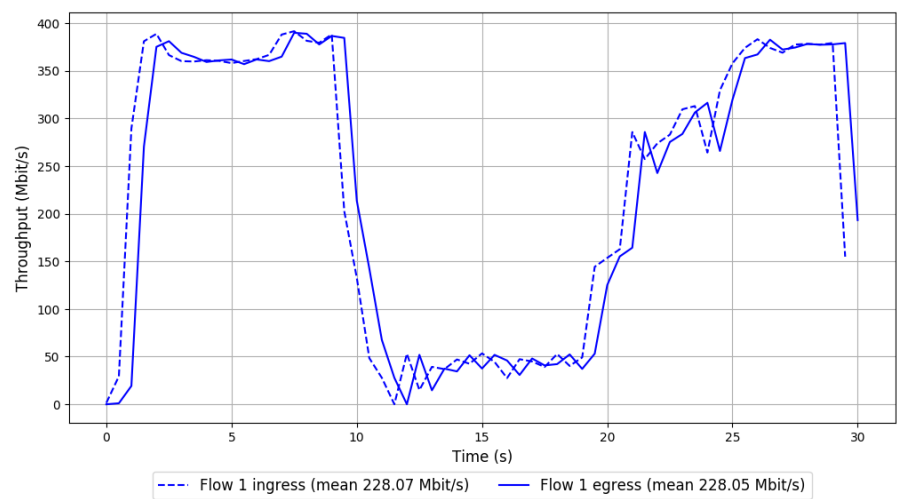


Run 1: Statistics of Copa

Start at: 2018-07-11 22:14:53
End at: 2018-07-11 22:15:23
Local clock offset: -0.107 ms
Remote clock offset: -0.517 ms

Below is generated by plot.py at 2018-07-12 02:04:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.05 Mbit/s
95th percentile per-packet one-way delay: 57.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.05 Mbit/s
95th percentile per-packet one-way delay: 57.217 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

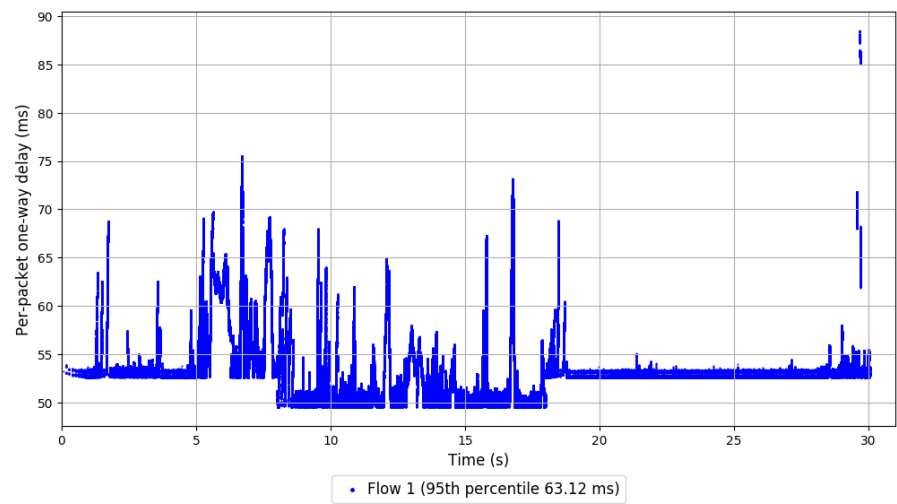
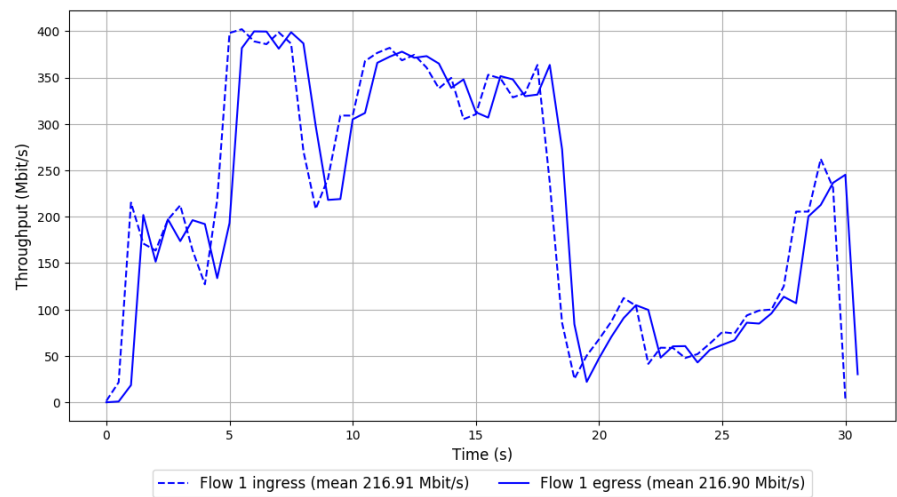


Run 2: Statistics of Copa

Start at: 2018-07-11 22:36:34
End at: 2018-07-11 22:37:04
Local clock offset: -0.096 ms
Remote clock offset: -0.332 ms

Below is generated by plot.py at 2018-07-12 02:04:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 216.90 Mbit/s
95th percentile per-packet one-way delay: 63.120 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 216.90 Mbit/s
95th percentile per-packet one-way delay: 63.120 ms
Loss rate: 0.02%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-11 22:58:44

End at: 2018-07-11 22:59:14

Local clock offset: -0.068 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-07-12 02:04:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.30 Mbit/s

95th percentile per-packet one-way delay: 63.278 ms

Loss rate: 0.00%

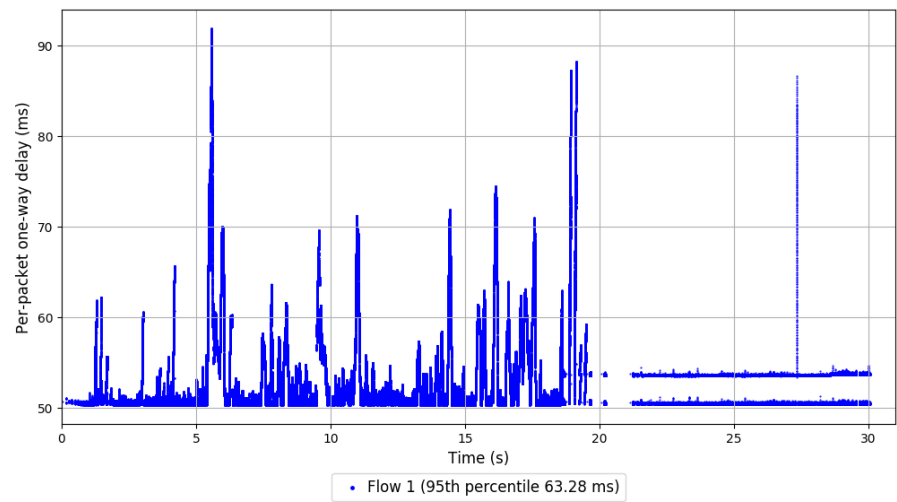
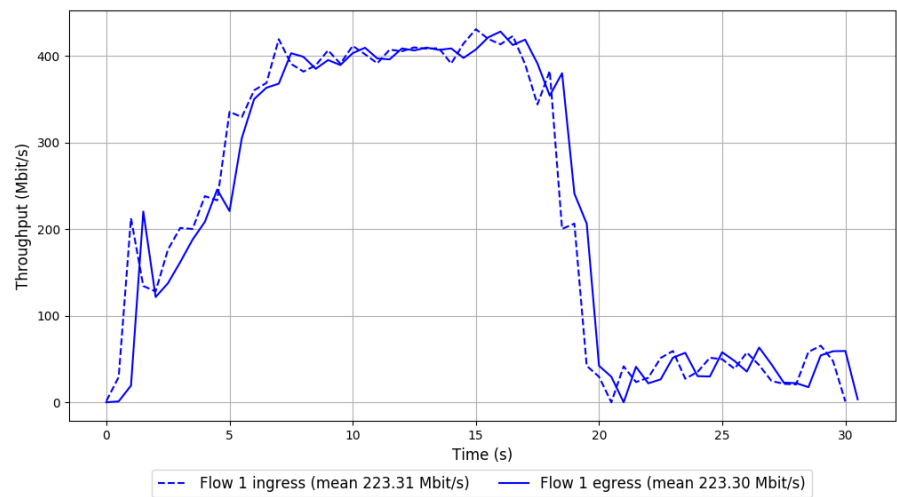
-- Flow 1:

Average throughput: 223.30 Mbit/s

95th percentile per-packet one-way delay: 63.278 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link

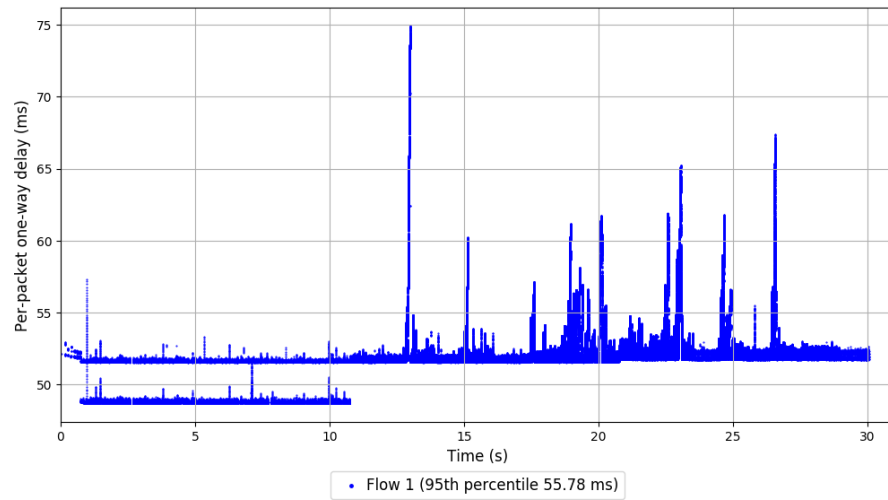
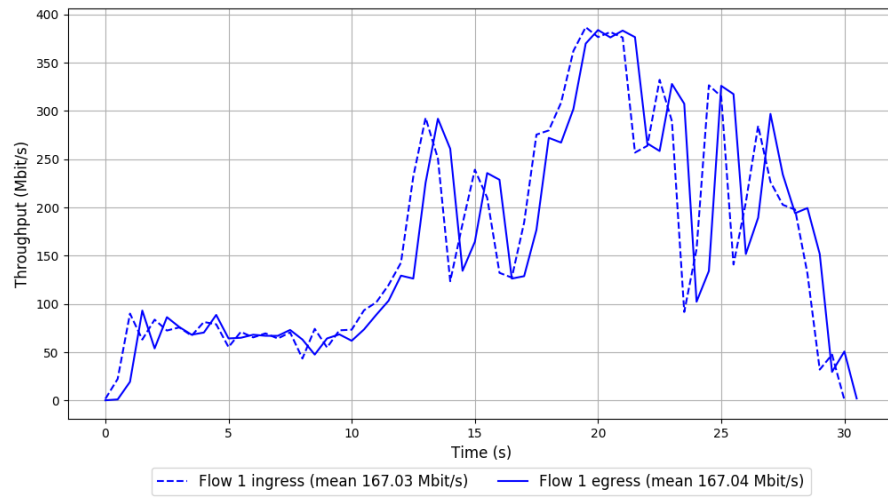


Run 4: Statistics of Copa

Start at: 2018-07-11 23:20:31
End at: 2018-07-11 23:21:01
Local clock offset: -0.014 ms
Remote clock offset: -1.365 ms

Below is generated by plot.py at 2018-07-12 02:04:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 167.04 Mbit/s
95th percentile per-packet one-way delay: 55.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.04 Mbit/s
95th percentile per-packet one-way delay: 55.783 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-11 23:42:39

End at: 2018-07-11 23:43:09

Local clock offset: -0.131 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-07-12 02:04:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.08 Mbit/s

95th percentile per-packet one-way delay: 55.927 ms

Loss rate: 0.00%

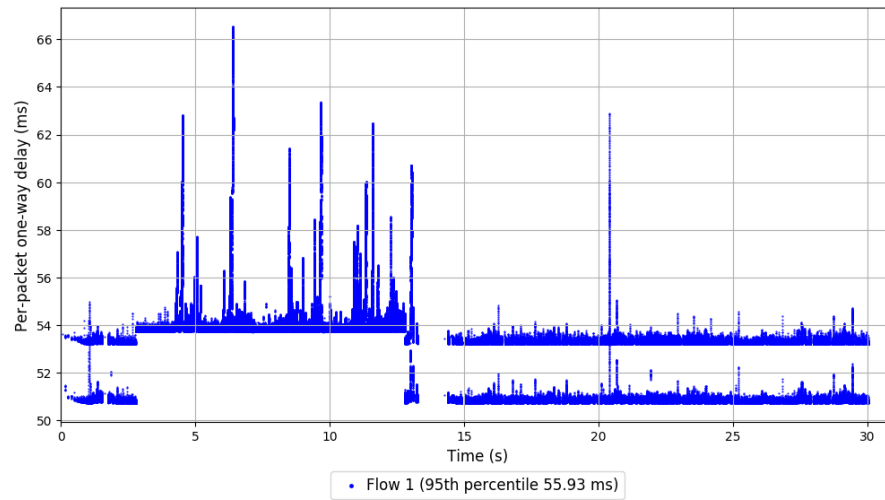
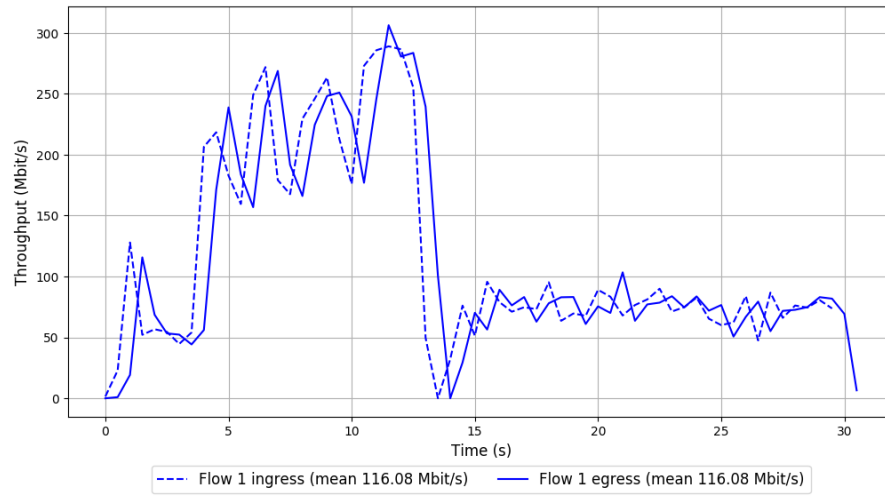
-- Flow 1:

Average throughput: 116.08 Mbit/s

95th percentile per-packet one-way delay: 55.927 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-12 00:04:38

End at: 2018-07-12 00:05:08

Local clock offset: 0.189 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-07-12 02:04:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 63.148 ms

Loss rate: 0.00%

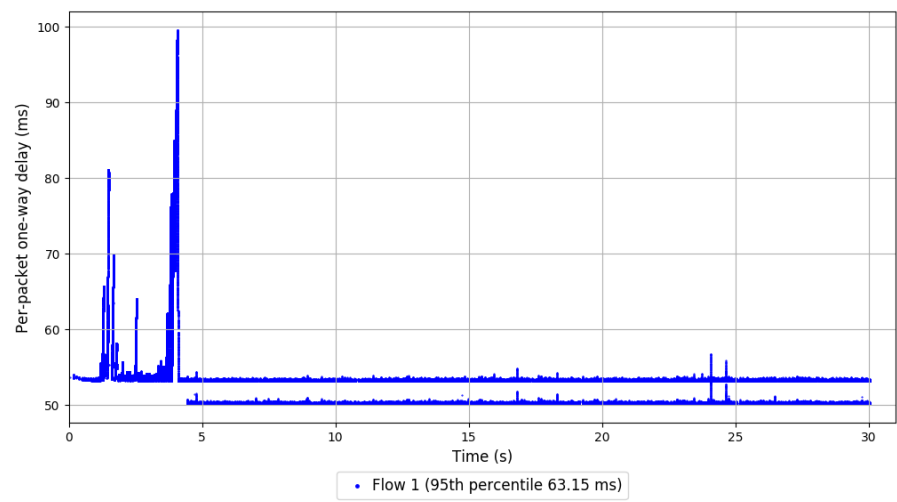
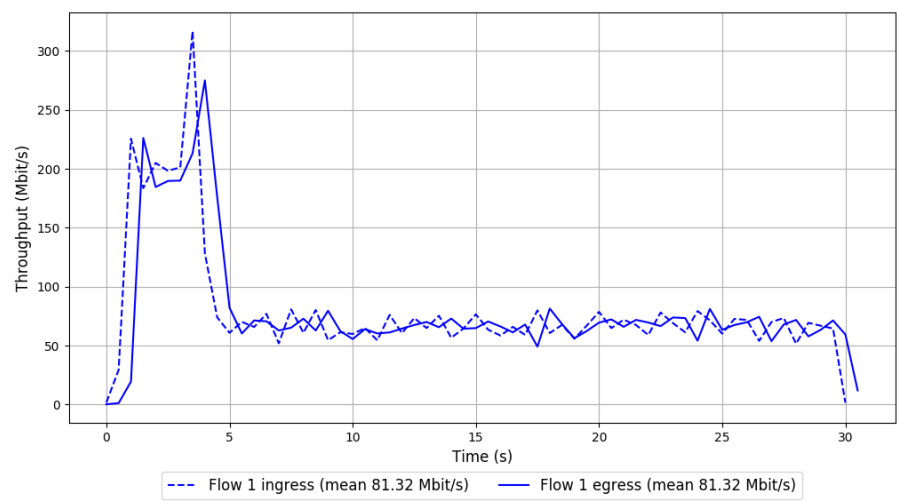
-- Flow 1:

Average throughput: 81.32 Mbit/s

95th percentile per-packet one-way delay: 63.148 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

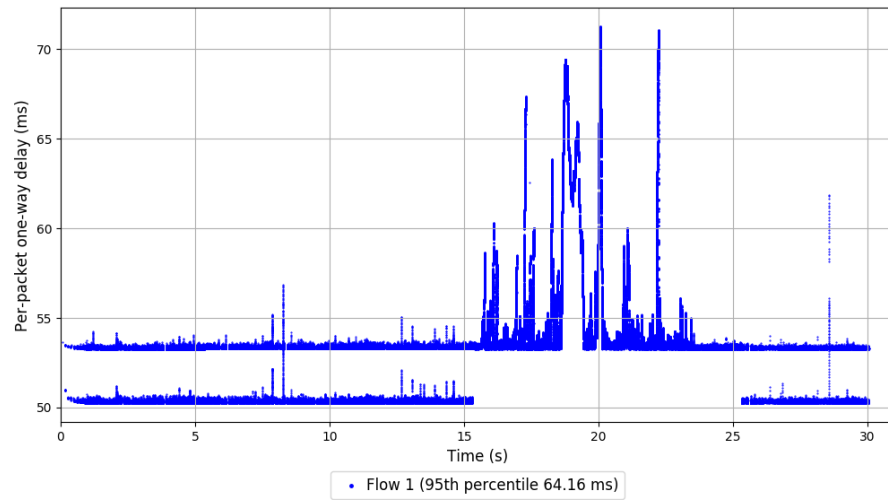
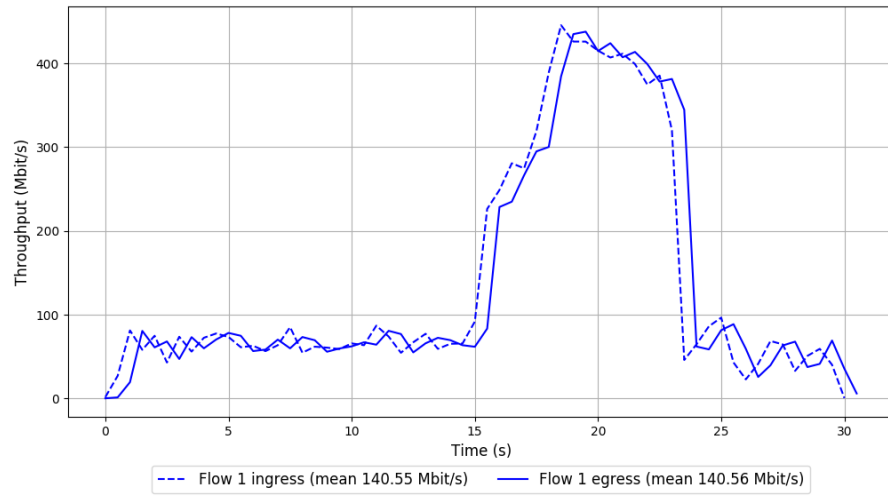


Run 7: Statistics of Copa

Start at: 2018-07-12 00:26:37
End at: 2018-07-12 00:27:07
Local clock offset: -0.039 ms
Remote clock offset: -0.254 ms

Below is generated by plot.py at 2018-07-12 02:04:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 140.56 Mbit/s
95th percentile per-packet one-way delay: 64.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 140.56 Mbit/s
95th percentile per-packet one-way delay: 64.159 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-12 00:48:37

End at: 2018-07-12 00:49:07

Local clock offset: 0.01 ms

Remote clock offset: 1.321 ms

Below is generated by plot.py at 2018-07-12 02:06:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.40 Mbit/s

95th percentile per-packet one-way delay: 69.762 ms

Loss rate: 0.00%

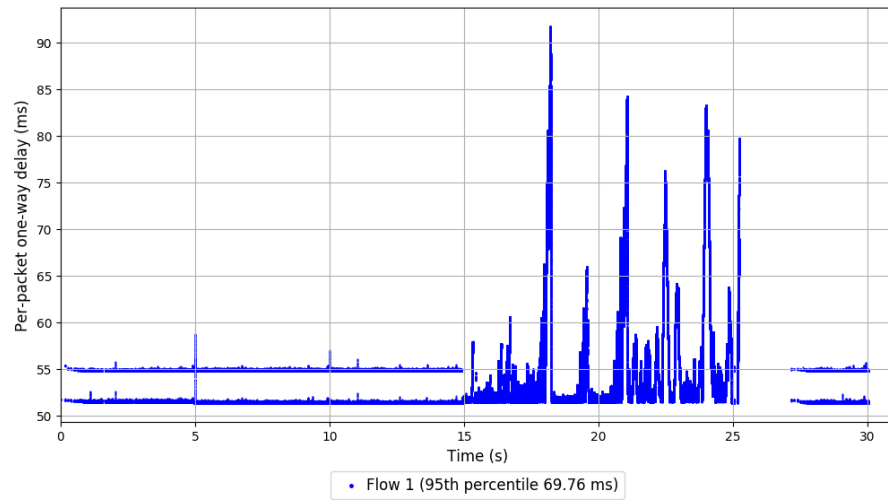
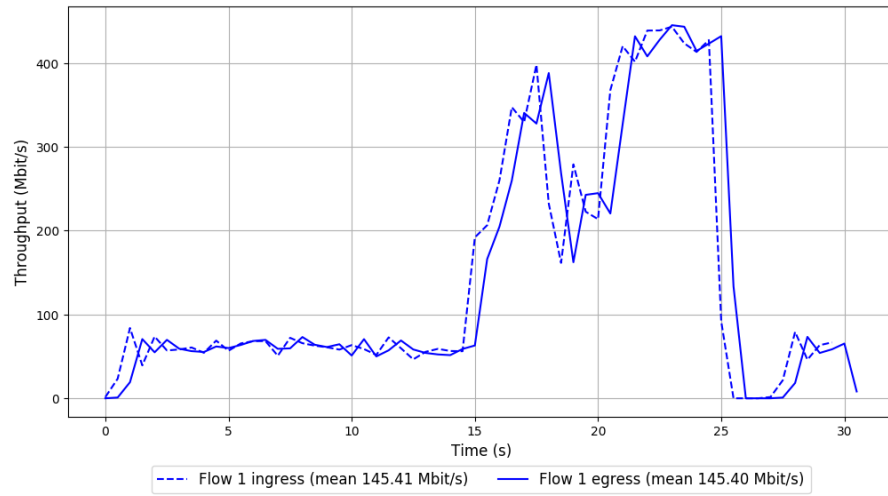
-- Flow 1:

Average throughput: 145.40 Mbit/s

95th percentile per-packet one-way delay: 69.762 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

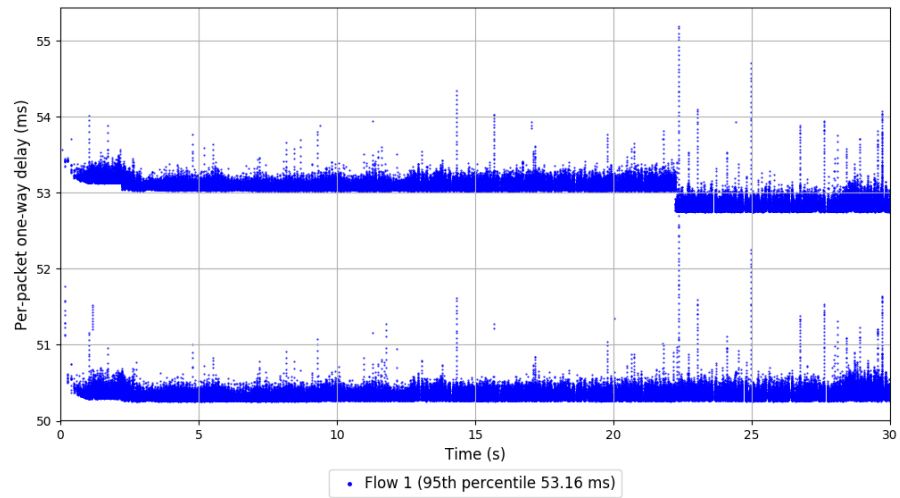
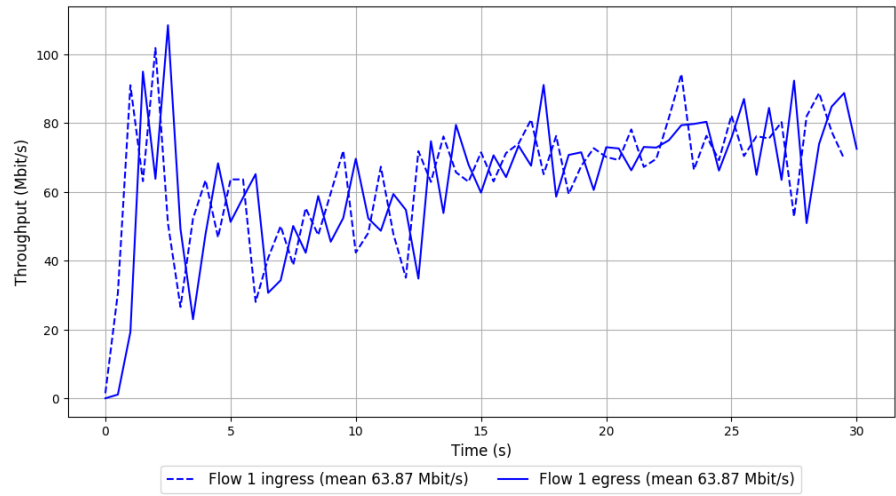


Run 9: Statistics of Copa

Start at: 2018-07-12 01:10:20
End at: 2018-07-12 01:10:50
Local clock offset: -0.249 ms
Remote clock offset: -0.427 ms

Below is generated by plot.py at 2018-07-12 02:06:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 53.164 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 63.87 Mbit/s
95th percentile per-packet one-way delay: 53.164 ms
Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-12 01:32:12

End at: 2018-07-12 01:32:42

Local clock offset: -0.205 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-07-12 02:07:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.58 Mbit/s

95th percentile per-packet one-way delay: 58.492 ms

Loss rate: 0.01%

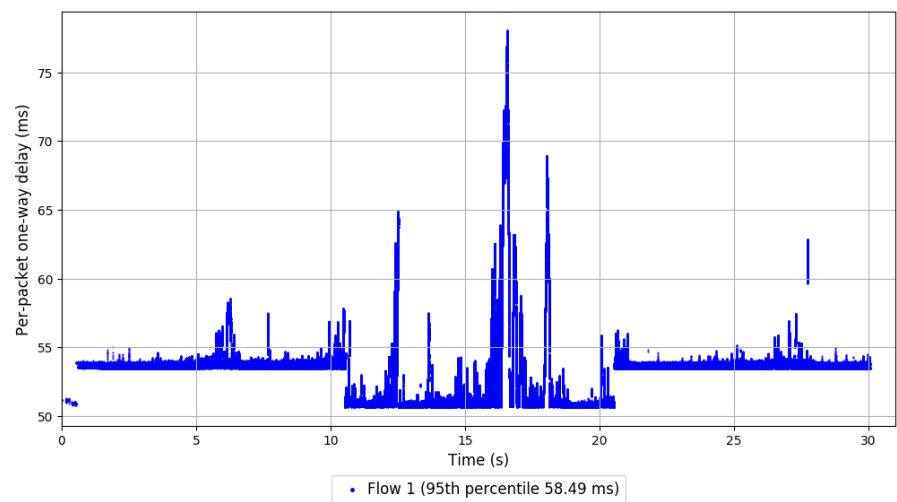
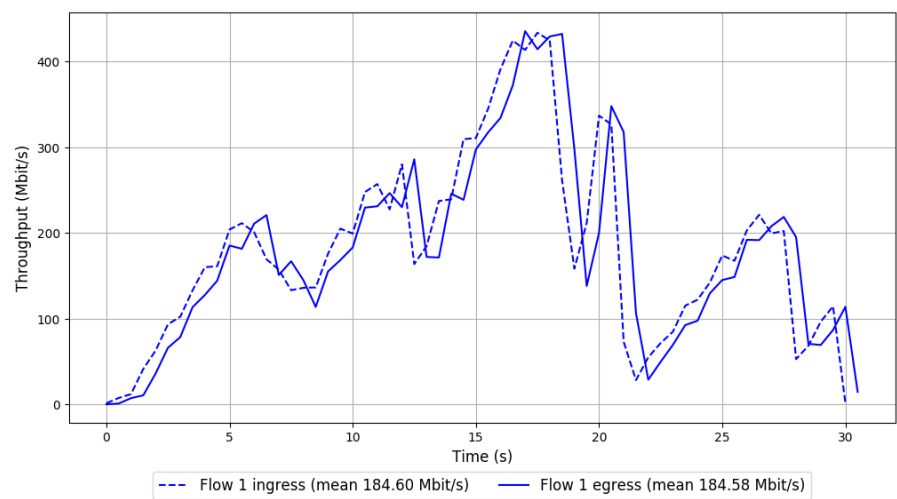
-- Flow 1:

Average throughput: 184.58 Mbit/s

95th percentile per-packet one-way delay: 58.492 ms

Loss rate: 0.01%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-11 22:05:28

End at: 2018-07-11 22:05:58

Local clock offset: -0.079 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-07-12 02:07:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.35 Mbit/s

95th percentile per-packet one-way delay: 59.591 ms

Loss rate: 0.00%

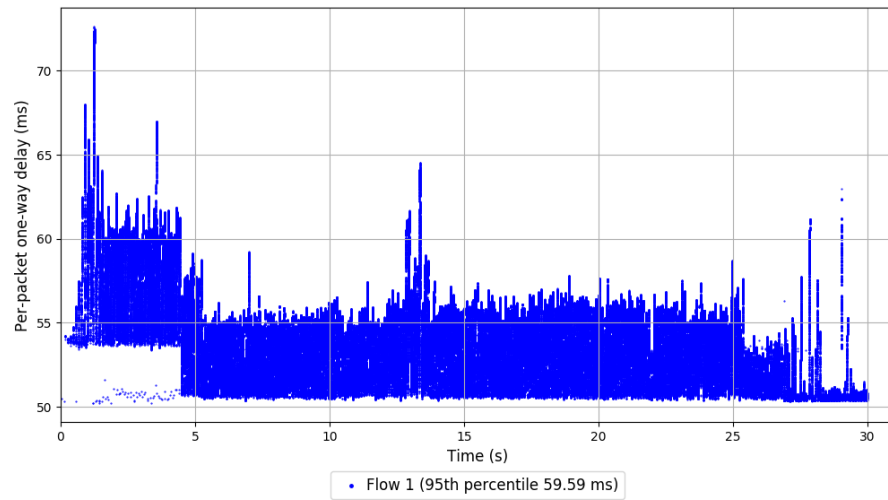
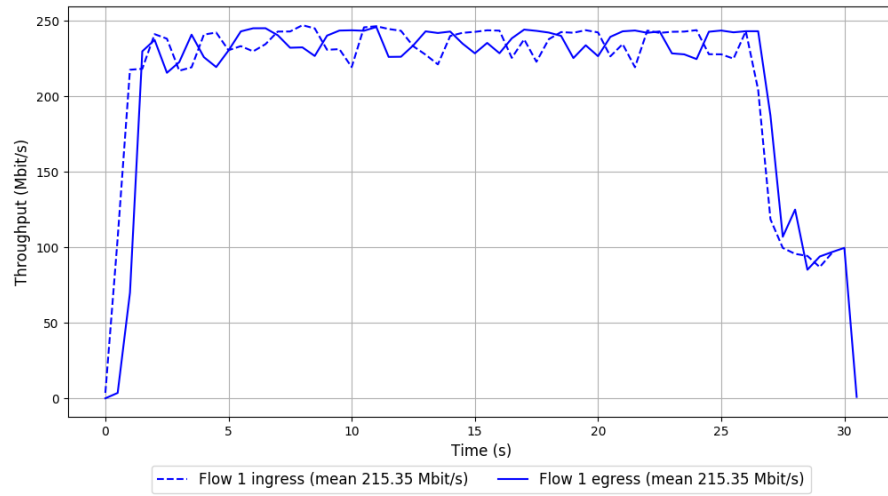
-- Flow 1:

Average throughput: 215.35 Mbit/s

95th percentile per-packet one-way delay: 59.591 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

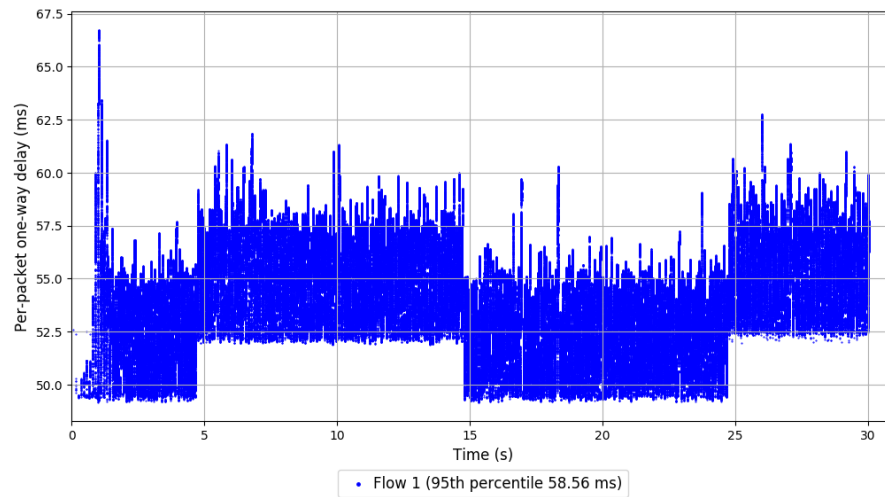
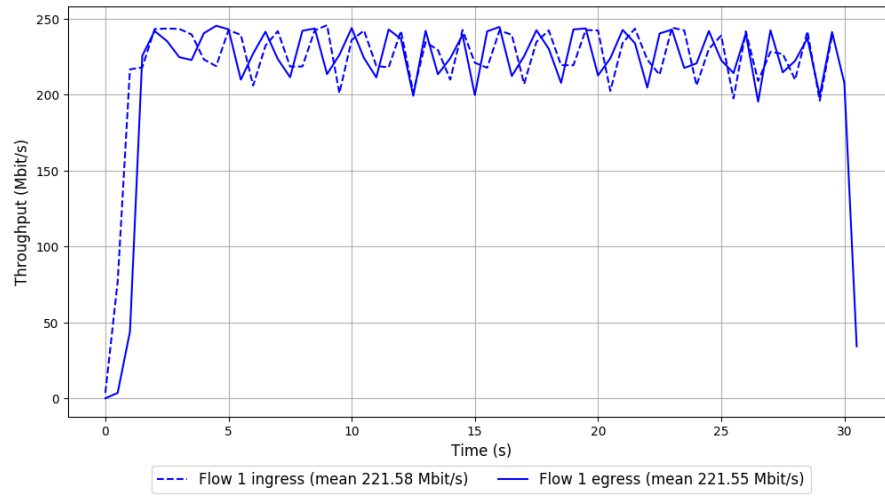


Run 2: Statistics of TCP Cubic

Start at: 2018-07-11 22:26:57
End at: 2018-07-11 22:27:27
Local clock offset: -0.066 ms
Remote clock offset: -1.287 ms

Below is generated by plot.py at 2018-07-12 02:07:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 221.55 Mbit/s
95th percentile per-packet one-way delay: 58.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.55 Mbit/s
95th percentile per-packet one-way delay: 58.561 ms
Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

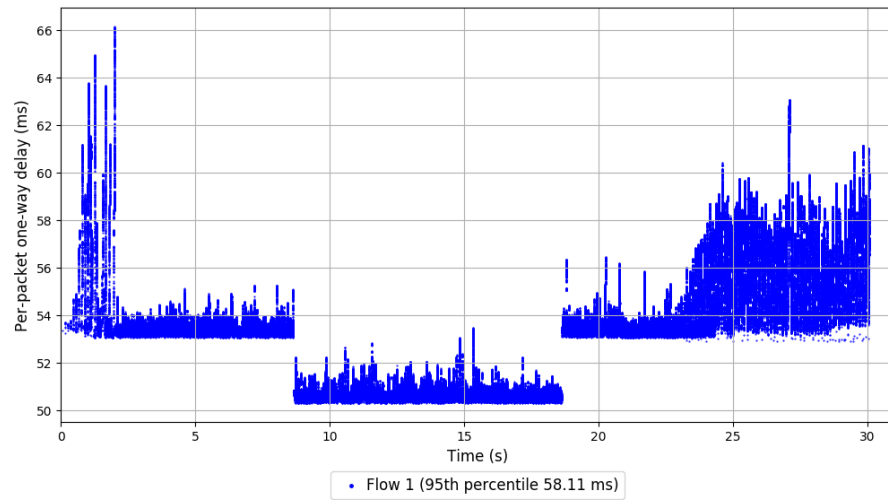
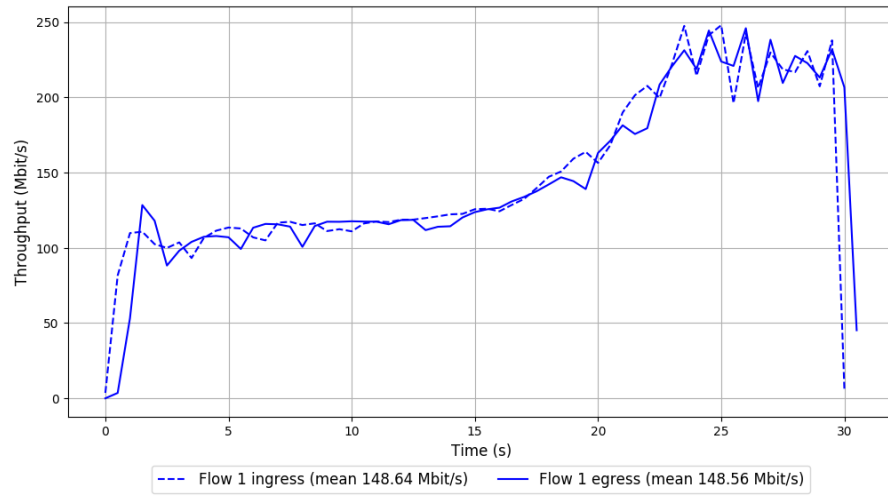


Run 3: Statistics of TCP Cubic

Start at: 2018-07-11 22:48:53
End at: 2018-07-11 22:49:24
Local clock offset: -0.173 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-07-12 02:07:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 148.56 Mbit/s
95th percentile per-packet one-way delay: 58.106 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 148.56 Mbit/s
95th percentile per-packet one-way delay: 58.106 ms
Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-11 23:10:46

End at: 2018-07-11 23:11:16

Local clock offset: -0.086 ms

Remote clock offset: 1.256 ms

Below is generated by plot.py at 2018-07-12 02:08:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.61 Mbit/s

95th percentile per-packet one-way delay: 61.463 ms

Loss rate: 0.02%

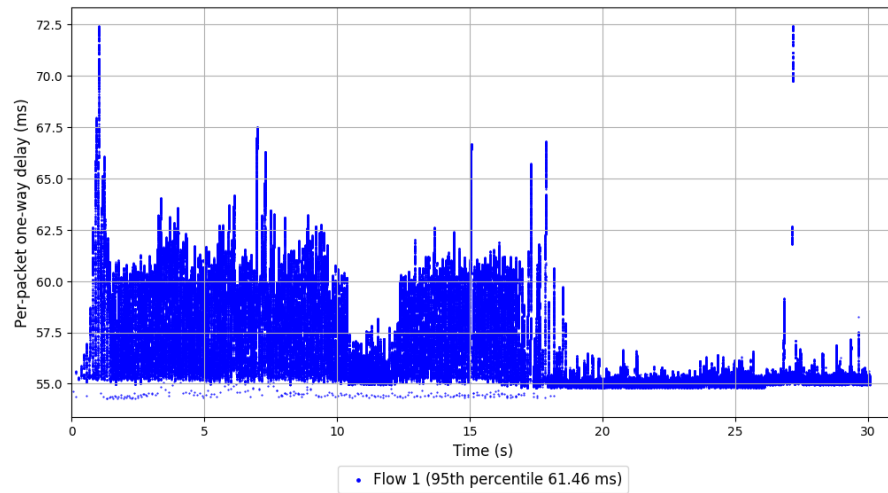
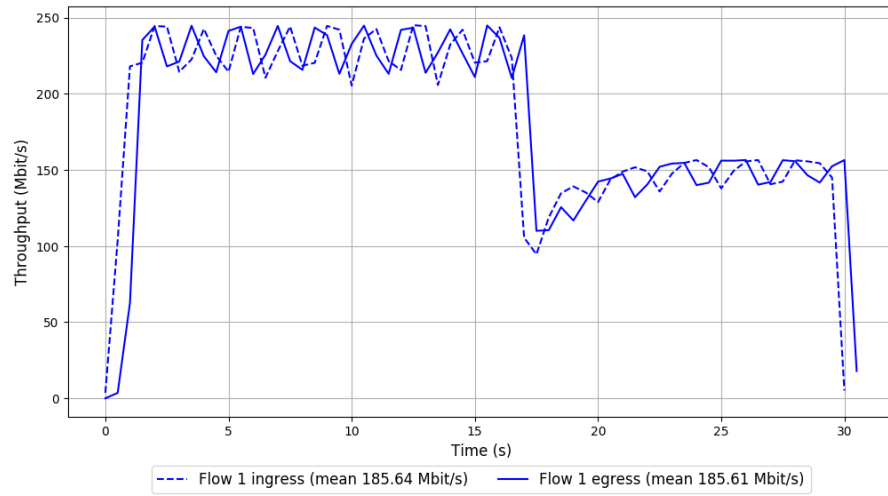
-- Flow 1:

Average throughput: 185.61 Mbit/s

95th percentile per-packet one-way delay: 61.463 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link

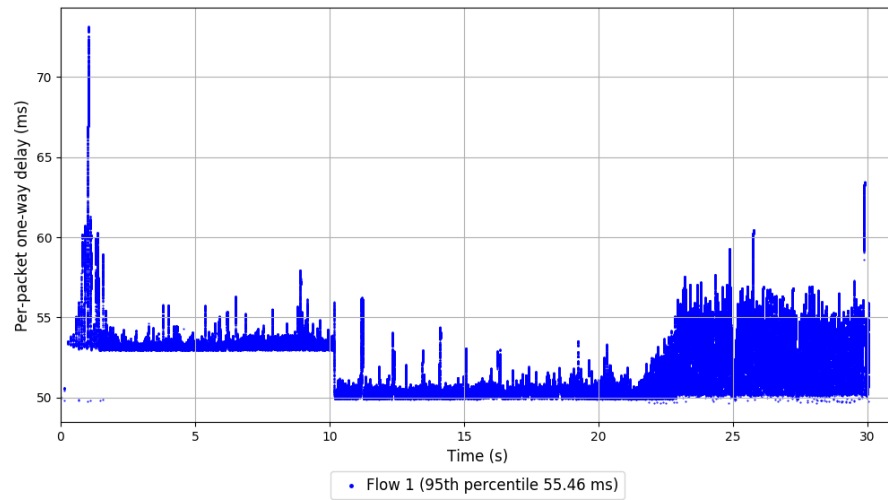
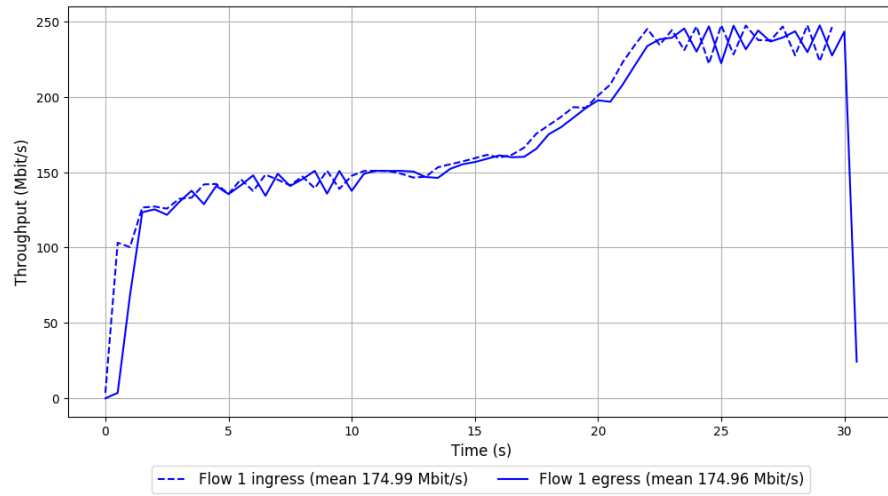


Run 5: Statistics of TCP Cubic

Start at: 2018-07-11 23:32:52
End at: 2018-07-11 23:33:22
Local clock offset: 0.036 ms
Remote clock offset: -0.507 ms

Below is generated by plot.py at 2018-07-12 02:08:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 174.96 Mbit/s
95th percentile per-packet one-way delay: 55.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.96 Mbit/s
95th percentile per-packet one-way delay: 55.463 ms
Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link

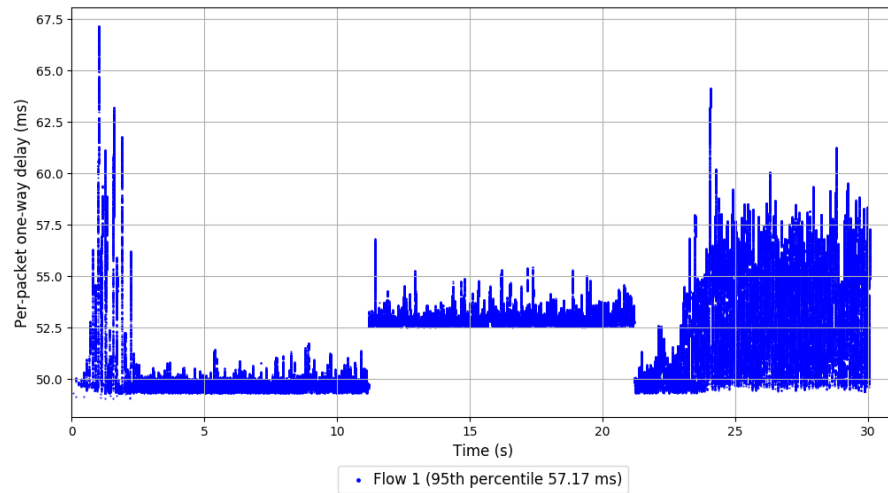
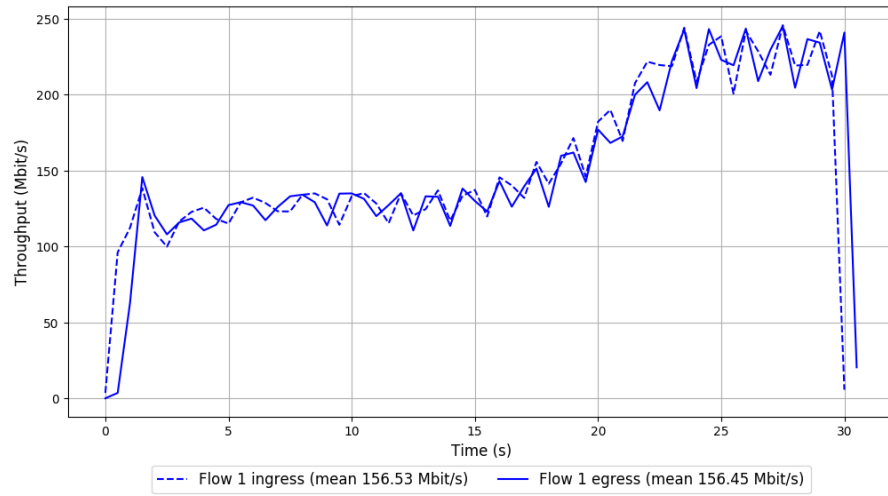


Run 6: Statistics of TCP Cubic

Start at: 2018-07-11 23:55:01
End at: 2018-07-11 23:55:31
Local clock offset: -0.115 ms
Remote clock offset: -1.225 ms

Below is generated by plot.py at 2018-07-12 02:08:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 156.45 Mbit/s
95th percentile per-packet one-way delay: 57.172 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 156.45 Mbit/s
95th percentile per-packet one-way delay: 57.172 ms
Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-12 00:16:49

End at: 2018-07-12 00:17:19

Local clock offset: -0.125 ms

Remote clock offset: 1.192 ms

Below is generated by plot.py at 2018-07-12 02:08:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.74 Mbit/s

95th percentile per-packet one-way delay: 55.974 ms

Loss rate: 0.00%

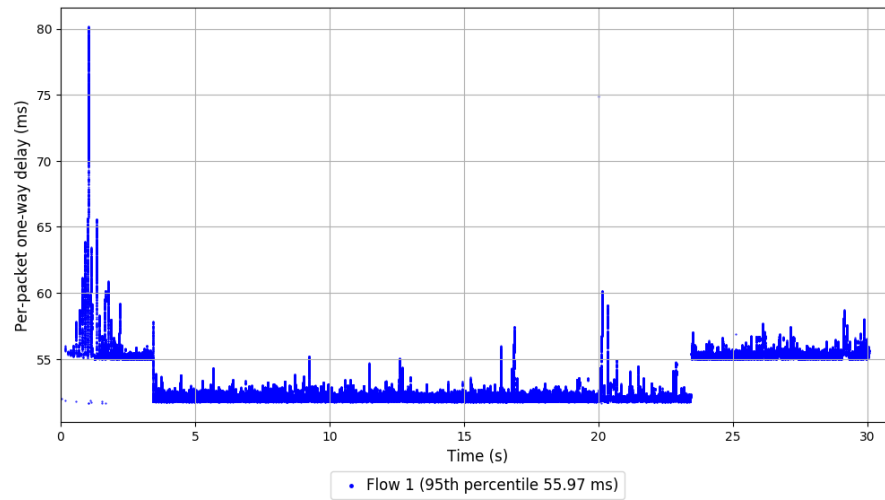
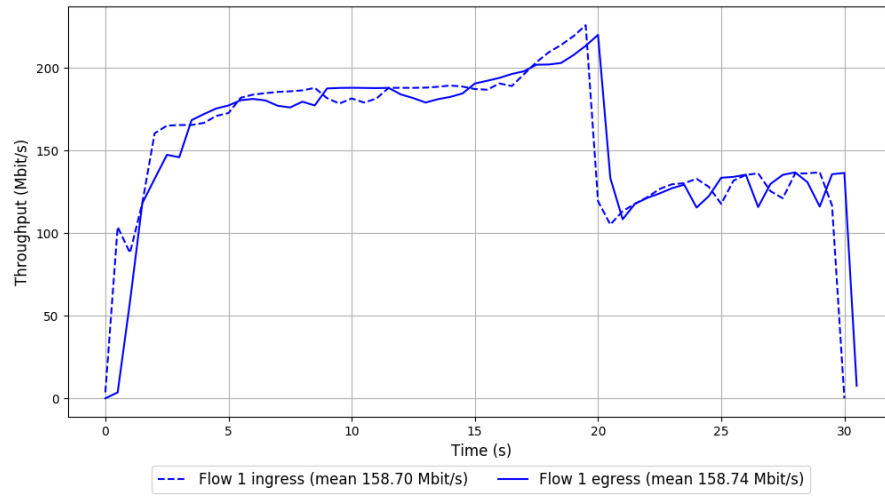
-- Flow 1:

Average throughput: 158.74 Mbit/s

95th percentile per-packet one-way delay: 55.974 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

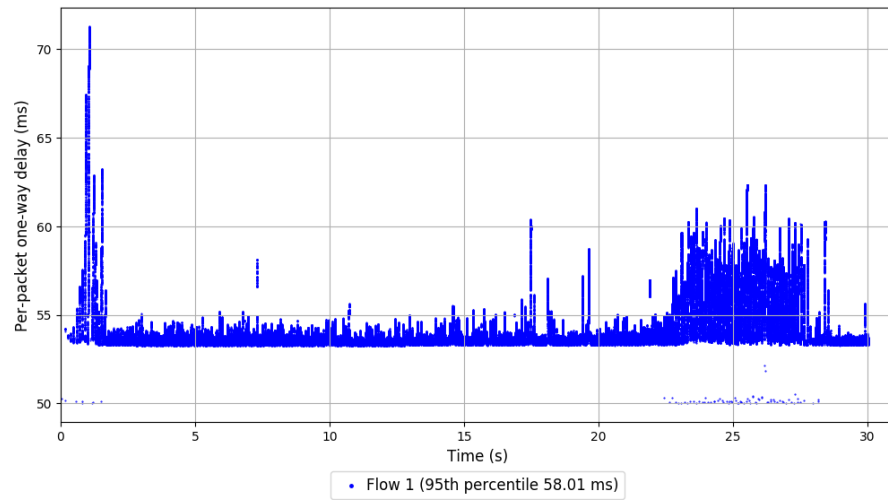
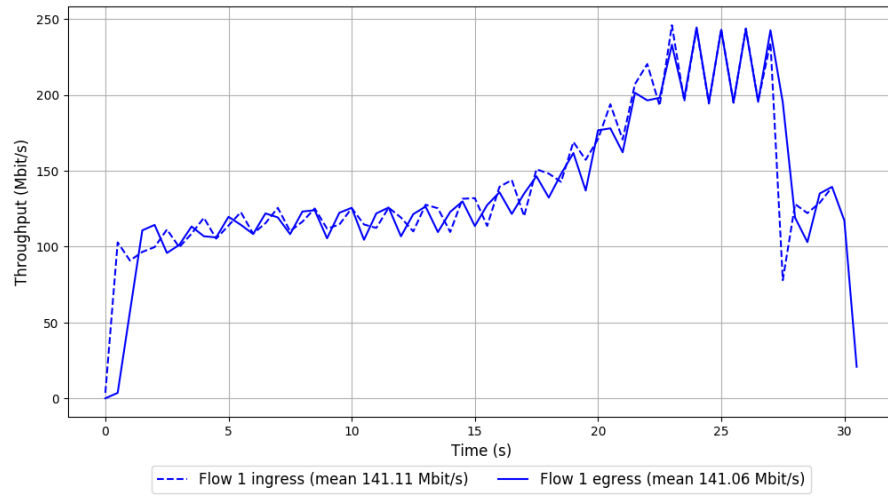


Run 8: Statistics of TCP Cubic

Start at: 2018-07-12 00:39:09
End at: 2018-07-12 00:39:39
Local clock offset: -0.02 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-07-12 02:09:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 141.06 Mbit/s
95th percentile per-packet one-way delay: 58.013 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 141.06 Mbit/s
95th percentile per-packet one-way delay: 58.013 ms
Loss rate: 0.03%

Run 8: Report of TCP Cubic — Data Link

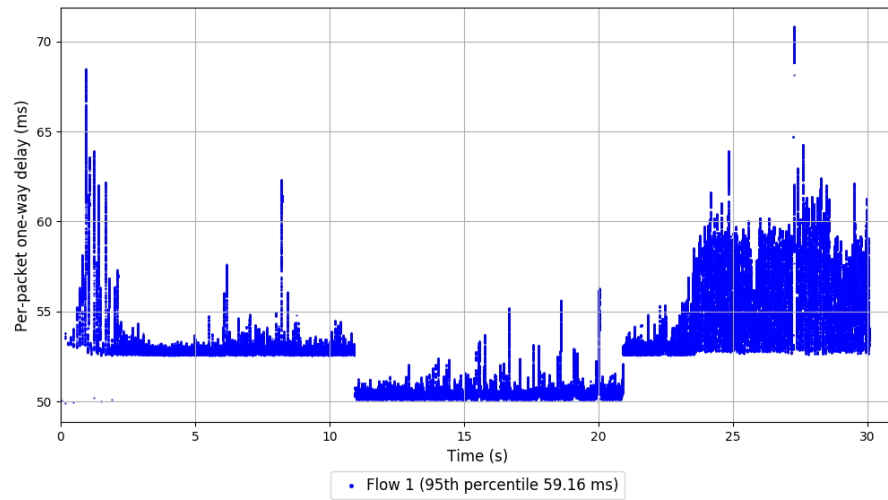
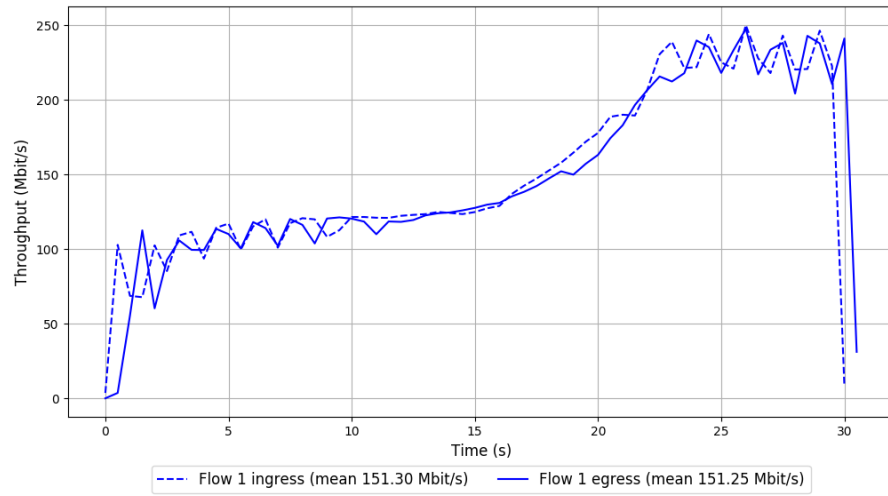


Run 9: Statistics of TCP Cubic

Start at: 2018-07-12 01:00:41
End at: 2018-07-12 01:01:11
Local clock offset: -0.039 ms
Remote clock offset: -0.418 ms

Below is generated by plot.py at 2018-07-12 02:09:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 151.25 Mbit/s
95th percentile per-packet one-way delay: 59.155 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 151.25 Mbit/s
95th percentile per-packet one-way delay: 59.155 ms
Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-12 01:22:32

End at: 2018-07-12 01:23:02

Local clock offset: -0.183 ms

Remote clock offset: -0.214 ms

Below is generated by plot.py at 2018-07-12 02:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.51 Mbit/s

95th percentile per-packet one-way delay: 58.599 ms

Loss rate: 0.00%

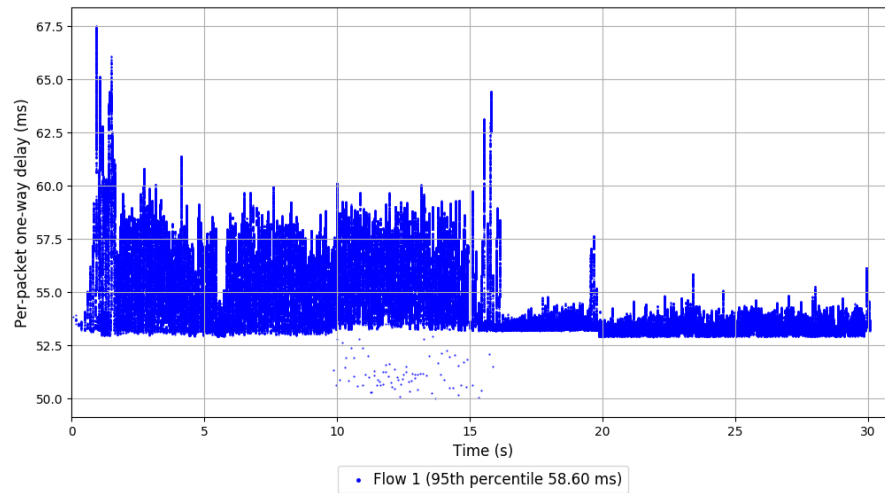
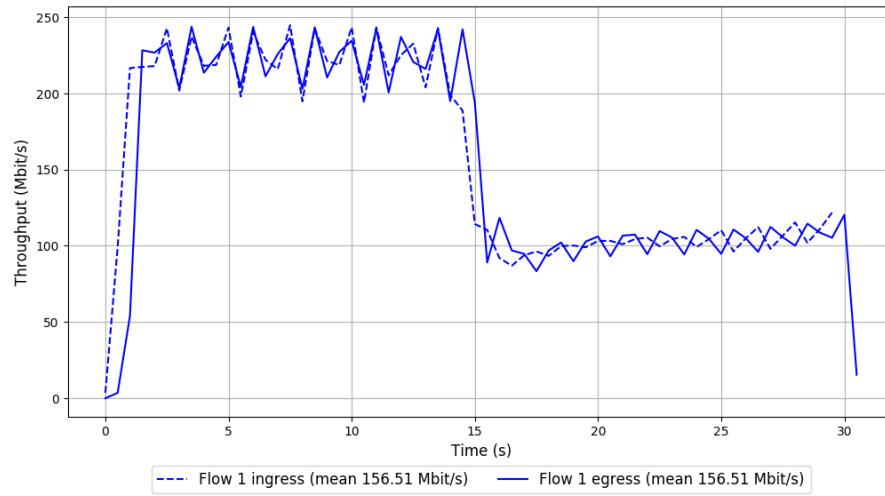
-- Flow 1:

Average throughput: 156.51 Mbit/s

95th percentile per-packet one-way delay: 58.599 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-11 22:06:43

End at: 2018-07-11 22:07:13

Local clock offset: 0.001 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-07-12 02:25:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 824.00 Mbit/s

95th percentile per-packet one-way delay: 210.589 ms

Loss rate: 1.33%

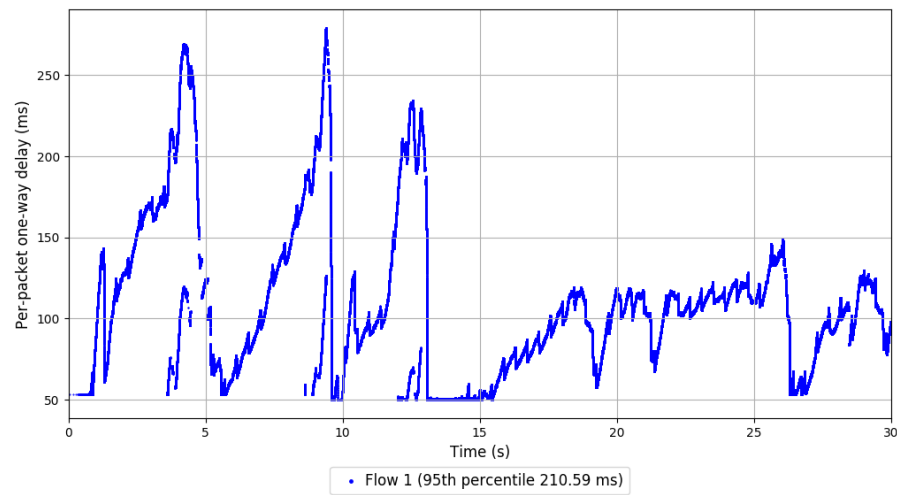
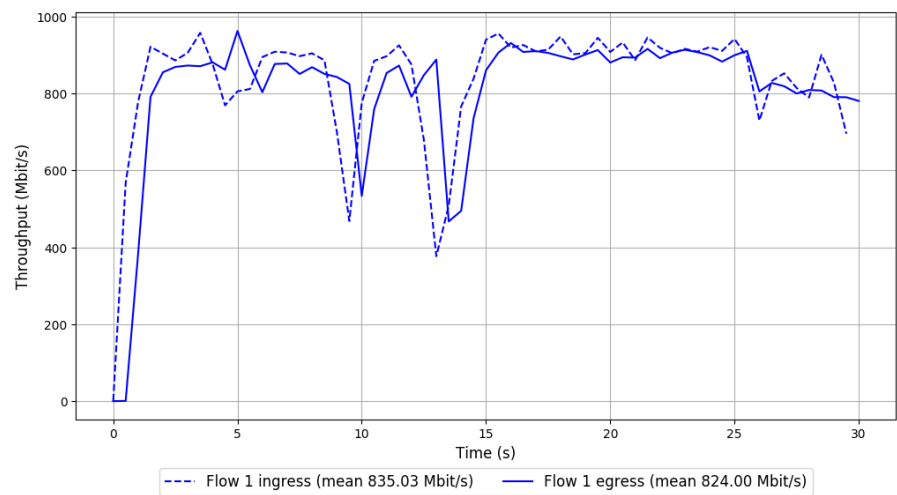
-- Flow 1:

Average throughput: 824.00 Mbit/s

95th percentile per-packet one-way delay: 210.589 ms

Loss rate: 1.33%

Run 1: Report of FillP — Data Link

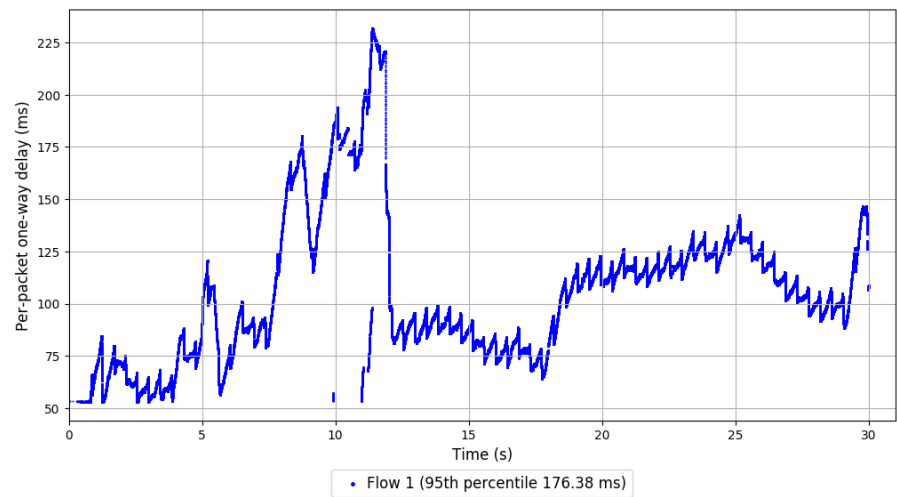
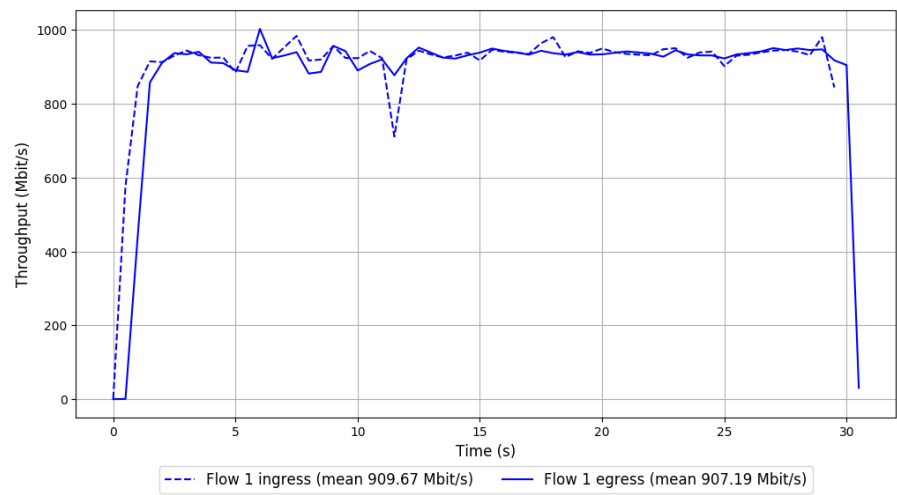


Run 2: Statistics of FillP

Start at: 2018-07-11 22:28:13
End at: 2018-07-11 22:28:43
Local clock offset: -0.009 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-07-12 02:26:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 907.19 Mbit/s
95th percentile per-packet one-way delay: 176.380 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 907.19 Mbit/s
95th percentile per-packet one-way delay: 176.380 ms
Loss rate: 0.27%

Run 2: Report of FillP — Data Link

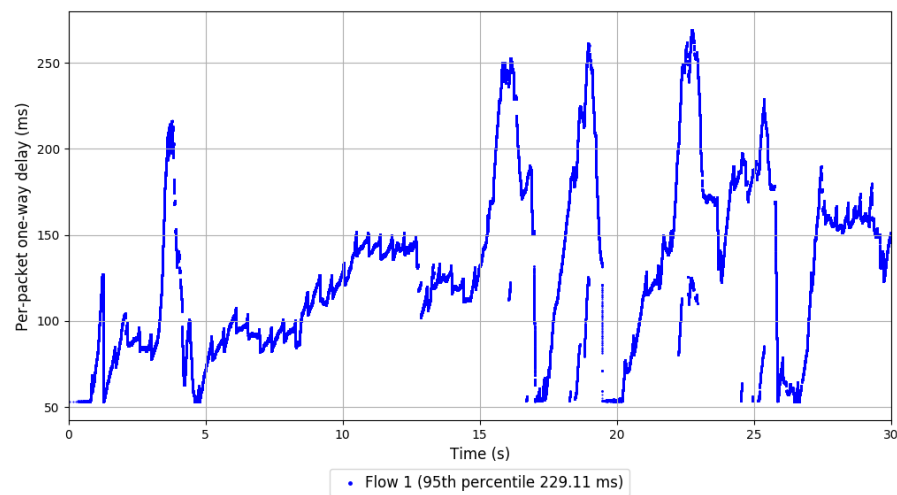
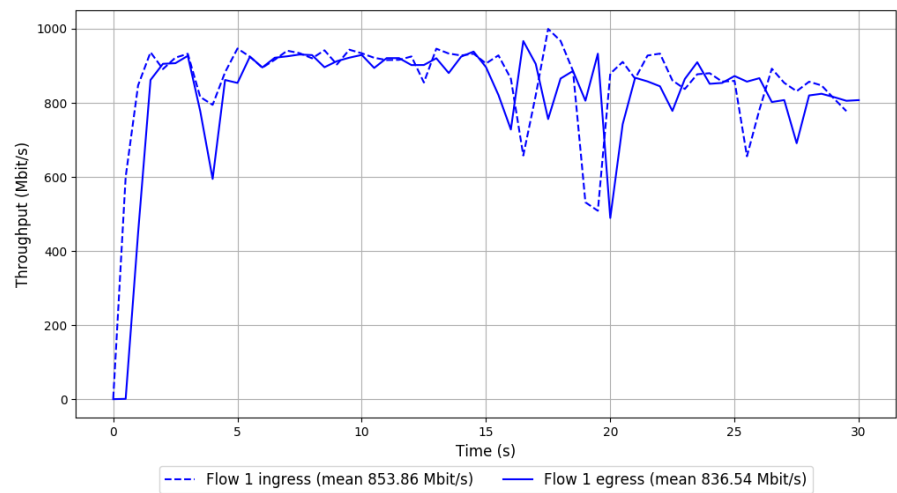


Run 3: Statistics of FillP

Start at: 2018-07-11 22:50:06
End at: 2018-07-11 22:50:36
Local clock offset: -0.001 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-07-12 02:26:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 836.54 Mbit/s
95th percentile per-packet one-way delay: 229.108 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 836.54 Mbit/s
95th percentile per-packet one-way delay: 229.108 ms
Loss rate: 2.03%

Run 3: Report of FillP — Data Link

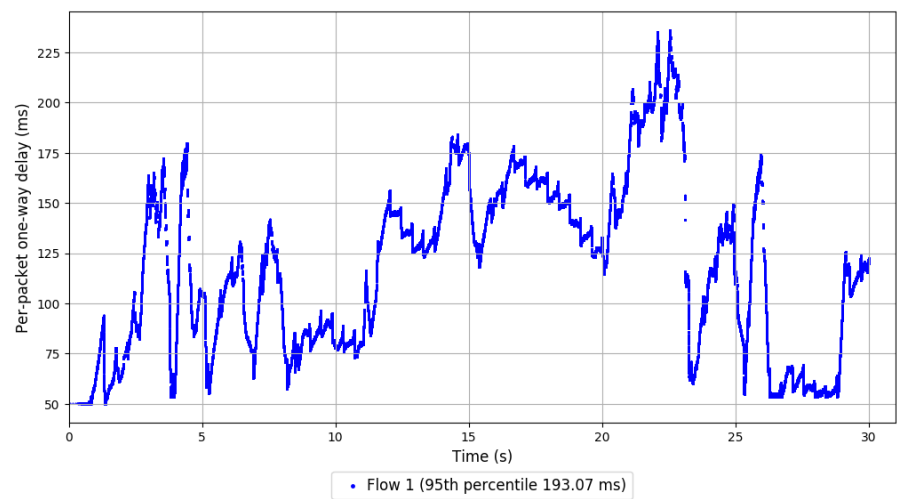
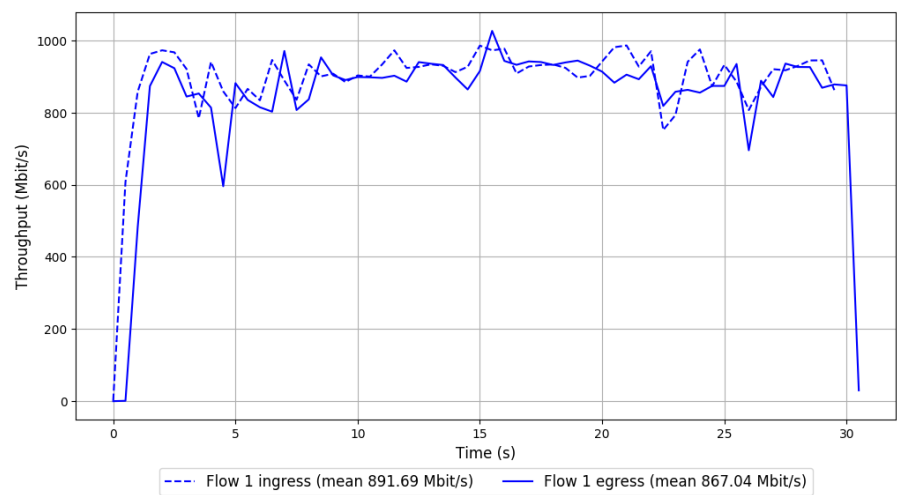


Run 4: Statistics of FillP

Start at: 2018-07-11 23:12:00
End at: 2018-07-11 23:12:30
Local clock offset: -0.003 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-07-12 02:26:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 867.04 Mbit/s
95th percentile per-packet one-way delay: 193.074 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 867.04 Mbit/s
95th percentile per-packet one-way delay: 193.074 ms
Loss rate: 2.76%

Run 4: Report of FillP — Data Link

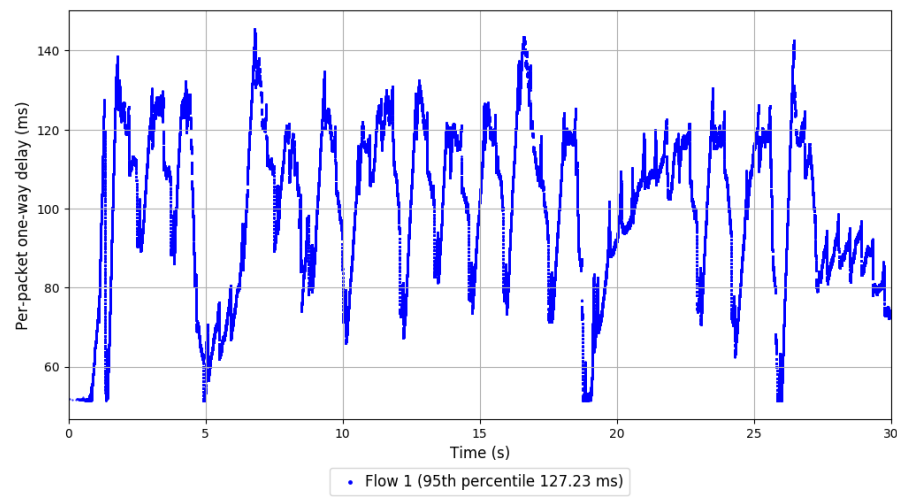
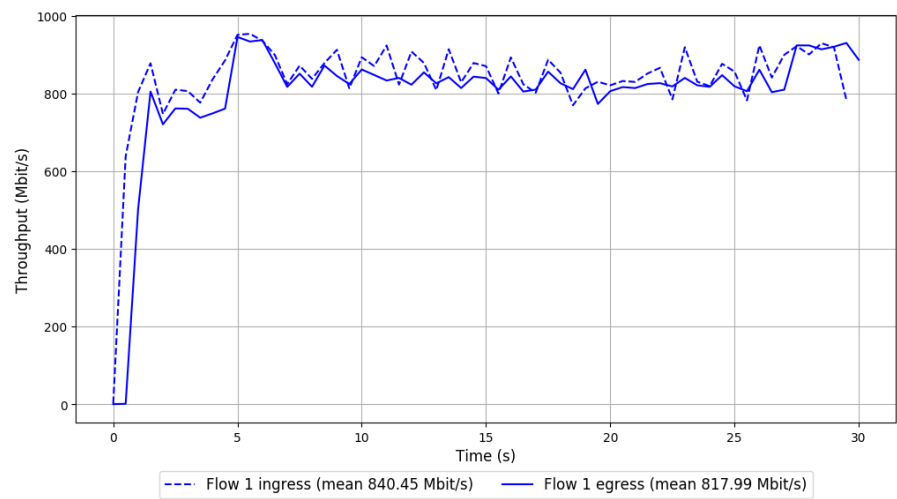


Run 5: Statistics of FillP

Start at: 2018-07-11 23:34:06
End at: 2018-07-11 23:34:36
Local clock offset: 0.119 ms
Remote clock offset: -1.407 ms

Below is generated by plot.py at 2018-07-12 02:26:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 817.99 Mbit/s
95th percentile per-packet one-way delay: 127.230 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 817.99 Mbit/s
95th percentile per-packet one-way delay: 127.230 ms
Loss rate: 2.68%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-11 23:56:14

End at: 2018-07-11 23:56:44

Local clock offset: -0.057 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-07-12 02:26:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 811.63 Mbit/s

95th percentile per-packet one-way delay: 222.136 ms

Loss rate: 0.85%

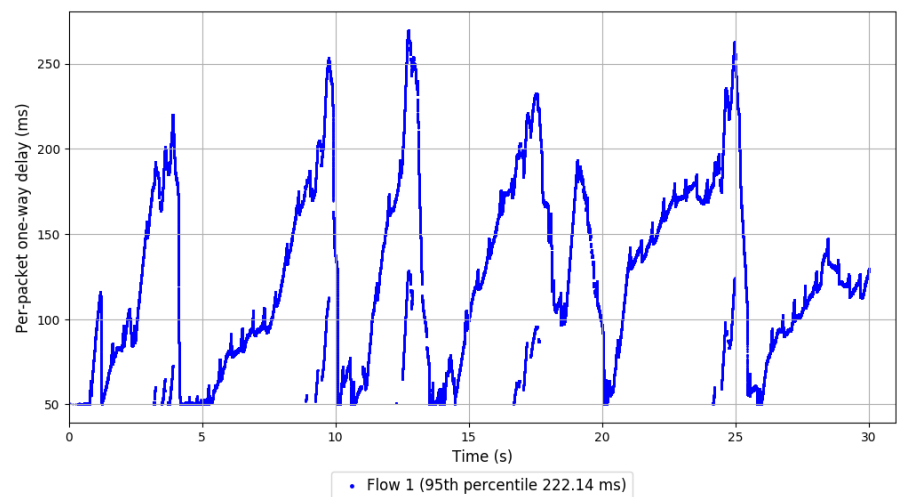
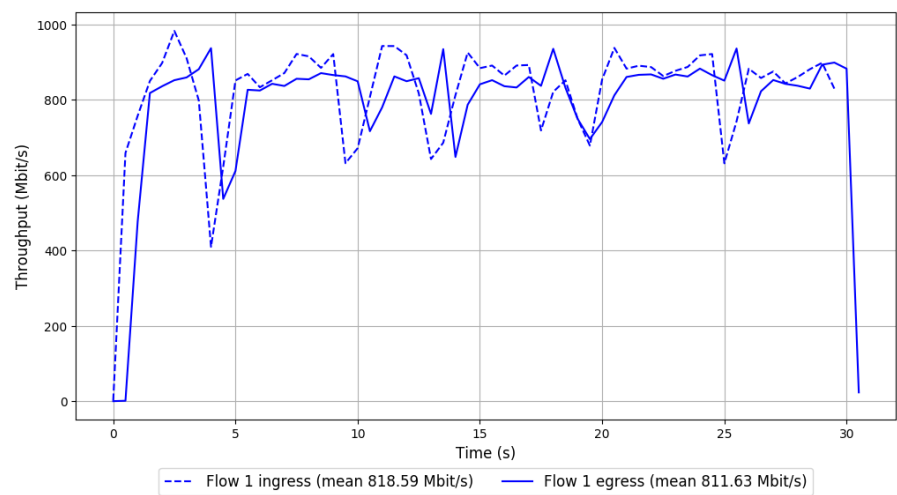
-- Flow 1:

Average throughput: 811.63 Mbit/s

95th percentile per-packet one-way delay: 222.136 ms

Loss rate: 0.85%

Run 6: Report of FillP — Data Link

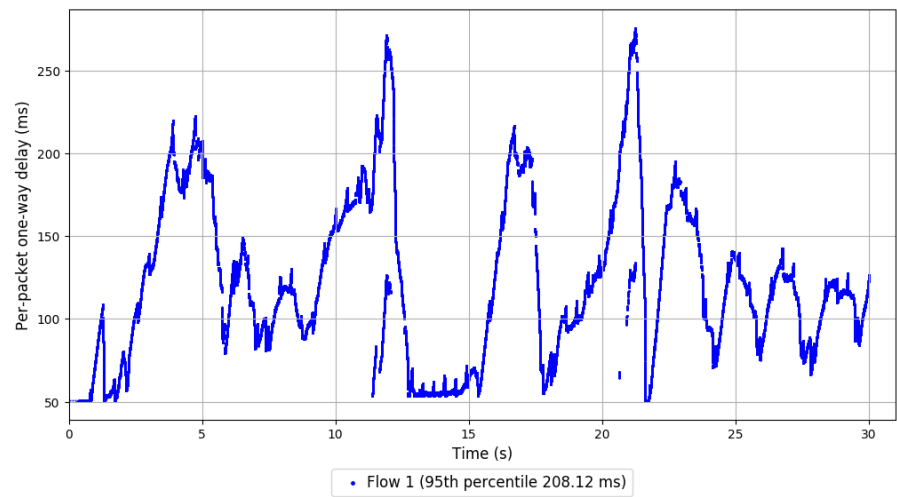
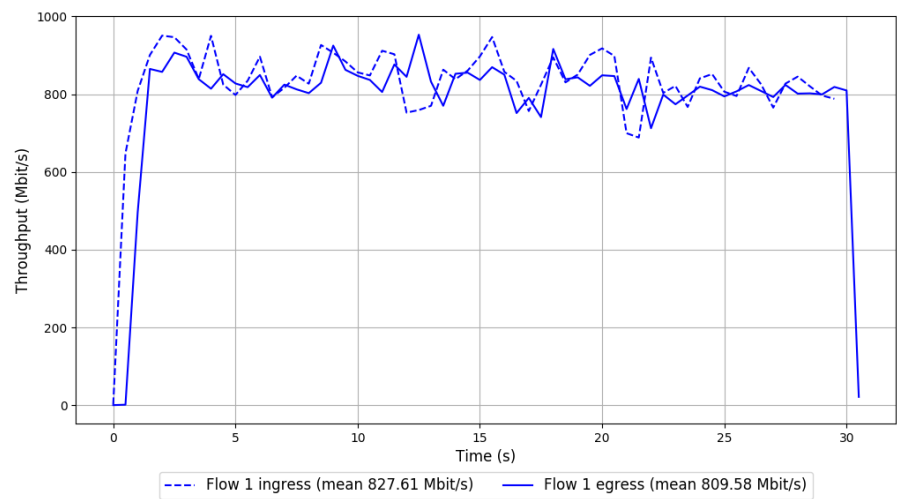


Run 7: Statistics of FillP

Start at: 2018-07-12 00:18:01
End at: 2018-07-12 00:18:31
Local clock offset: 0.09 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-07-12 02:26:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 809.58 Mbit/s
95th percentile per-packet one-way delay: 208.115 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 809.58 Mbit/s
95th percentile per-packet one-way delay: 208.115 ms
Loss rate: 2.18%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-12 00:40:21

End at: 2018-07-12 00:40:51

Local clock offset: -0.172 ms

Remote clock offset: 1.168 ms

Below is generated by plot.py at 2018-07-12 02:27:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 831.12 Mbit/s

95th percentile per-packet one-way delay: 229.622 ms

Loss rate: 0.49%

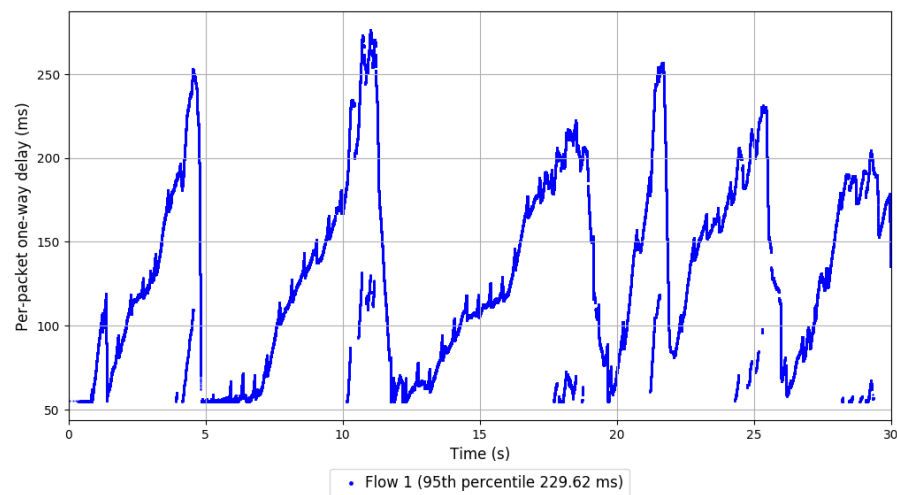
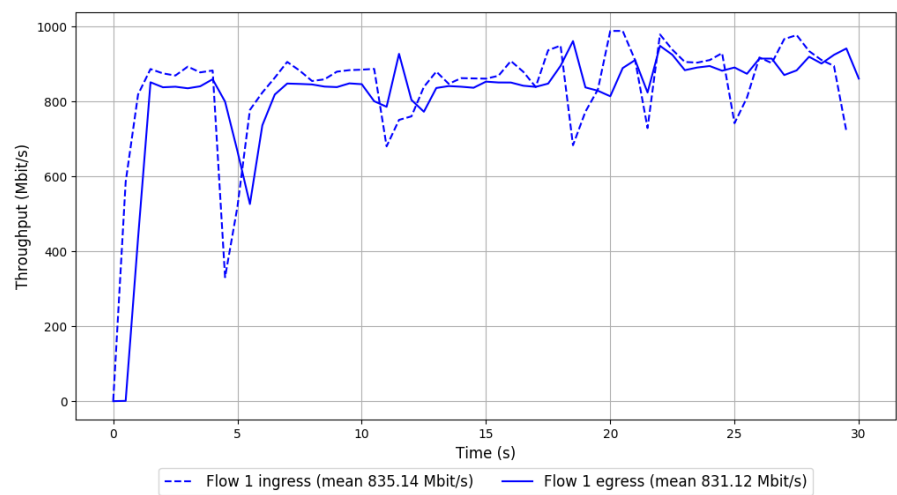
-- Flow 1:

Average throughput: 831.12 Mbit/s

95th percentile per-packet one-way delay: 229.622 ms

Loss rate: 0.49%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-12 01:01:54

End at: 2018-07-12 01:02:24

Local clock offset: -0.161 ms

Remote clock offset: 1.153 ms

Below is generated by plot.py at 2018-07-12 02:40:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.69 Mbit/s

95th percentile per-packet one-way delay: 256.495 ms

Loss rate: 2.44%

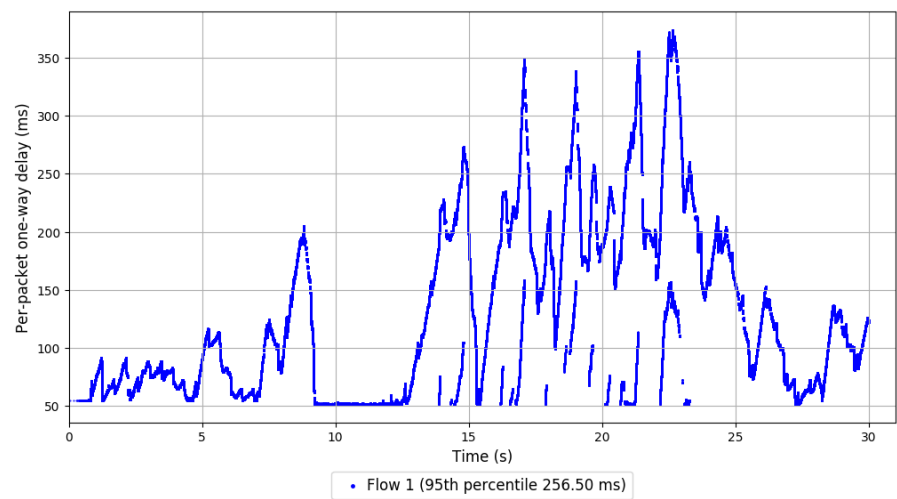
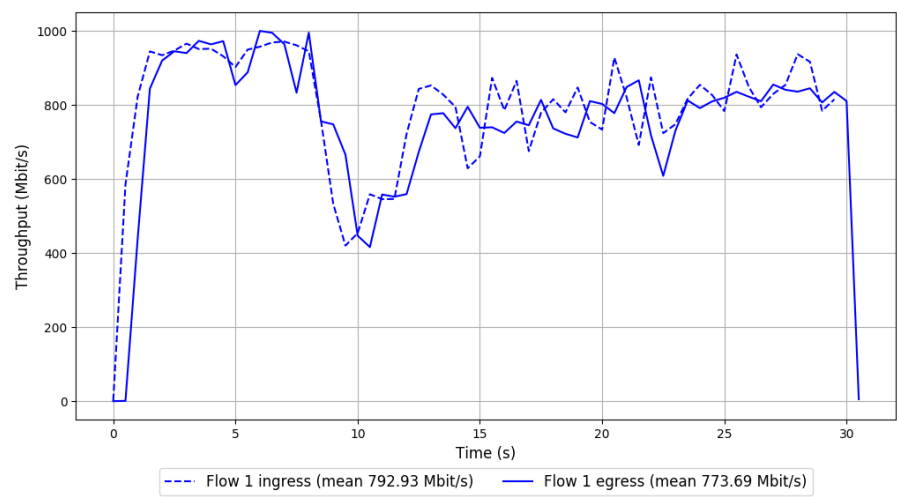
-- Flow 1:

Average throughput: 773.69 Mbit/s

95th percentile per-packet one-way delay: 256.495 ms

Loss rate: 2.44%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-12 01:23:45

End at: 2018-07-12 01:24:15

Local clock offset: -0.031 ms

Remote clock offset: -1.59 ms

Below is generated by plot.py at 2018-07-12 02:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 814.24 Mbit/s

95th percentile per-packet one-way delay: 200.622 ms

Loss rate: 1.84%

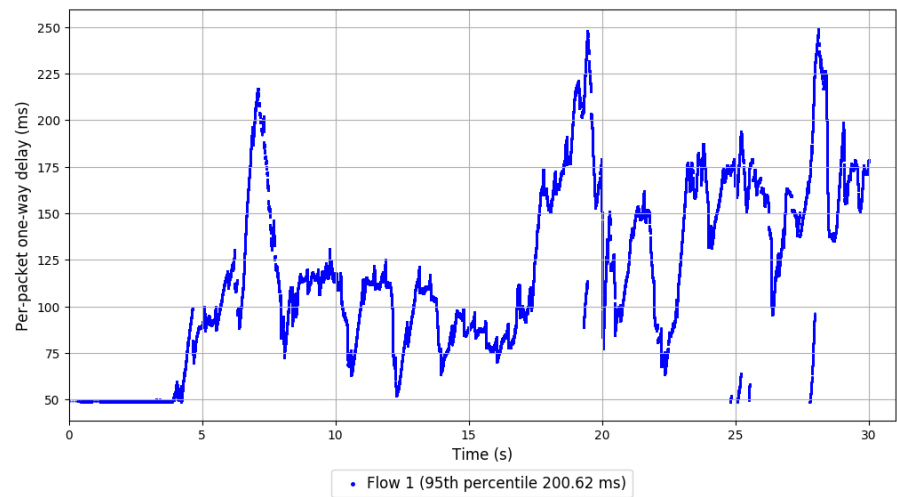
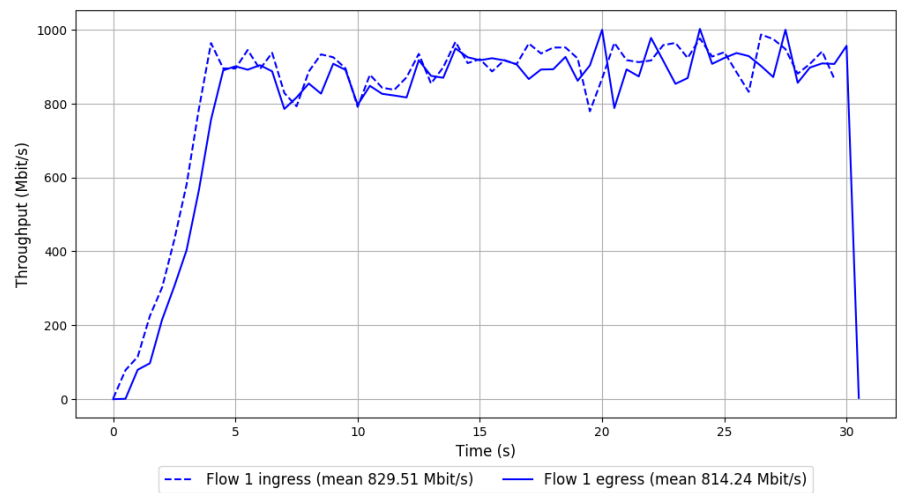
-- Flow 1:

Average throughput: 814.24 Mbit/s

95th percentile per-packet one-way delay: 200.622 ms

Loss rate: 1.84%

Run 10: Report of FillP — Data Link

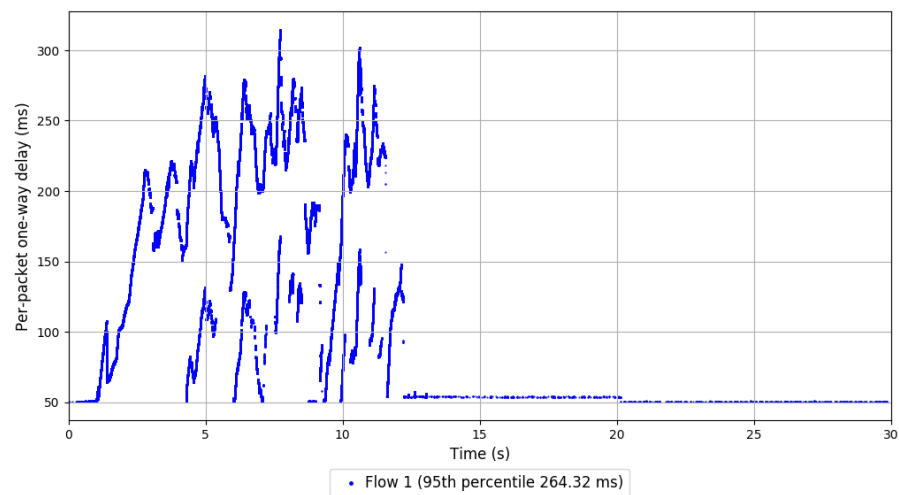
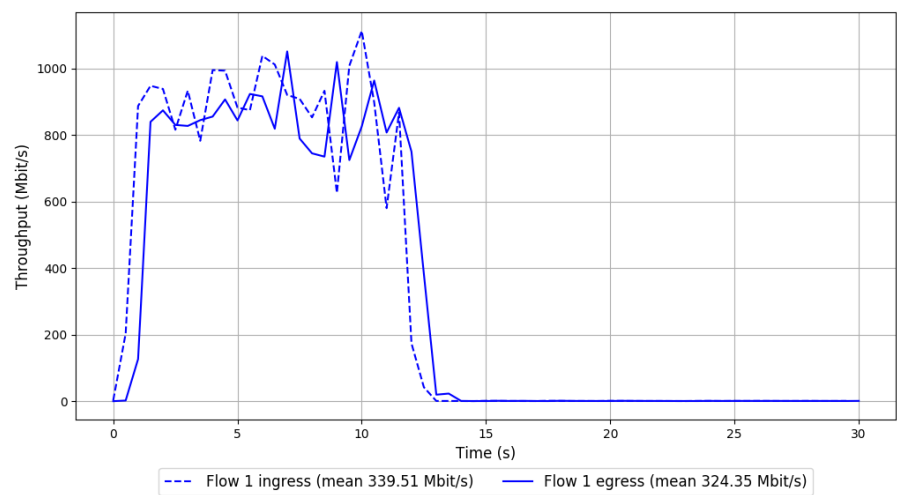


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-11 22:11:12
End at: 2018-07-11 22:11:42
Local clock offset: -0.321 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-07-12 02:41:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 324.35 Mbit/s
95th percentile per-packet one-way delay: 264.325 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 324.35 Mbit/s
95th percentile per-packet one-way delay: 264.325 ms
Loss rate: 4.47%

Run 1: Report of FillP-Sheep — Data Link

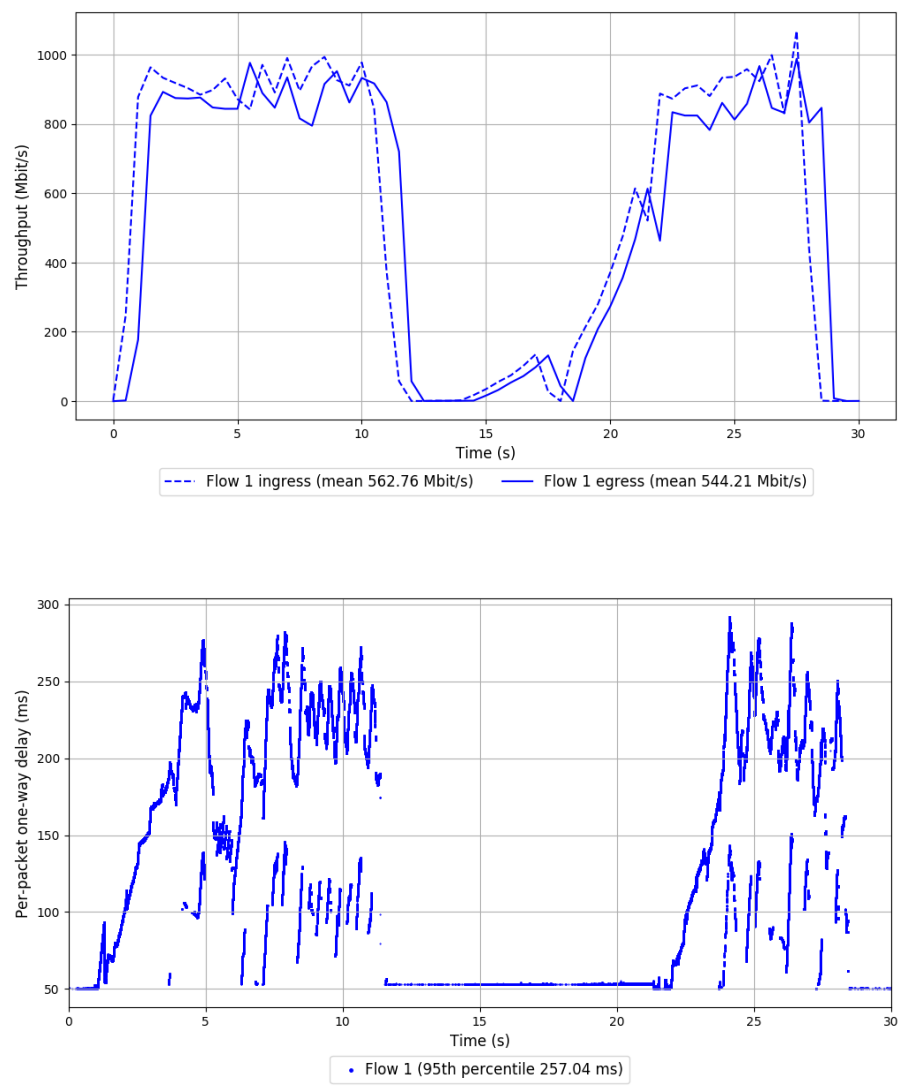


Run 2: Statistics of FillP-Sheep

Start at: 2018-07-11 22:32:41
End at: 2018-07-11 22:33:11
Local clock offset: -0.09 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-07-12 02:41:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 544.21 Mbit/s
95th percentile per-packet one-way delay: 257.038 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 544.21 Mbit/s
95th percentile per-packet one-way delay: 257.038 ms
Loss rate: 3.30%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-11 22:54:34

End at: 2018-07-11 22:55:04

Local clock offset: -0.183 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2018-07-12 02:43:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 861.79 Mbit/s

95th percentile per-packet one-way delay: 246.289 ms

Loss rate: 3.33%

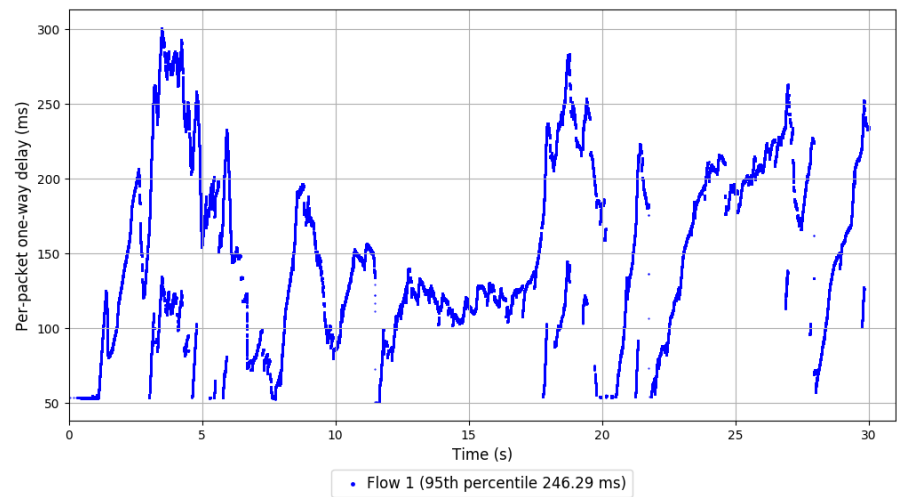
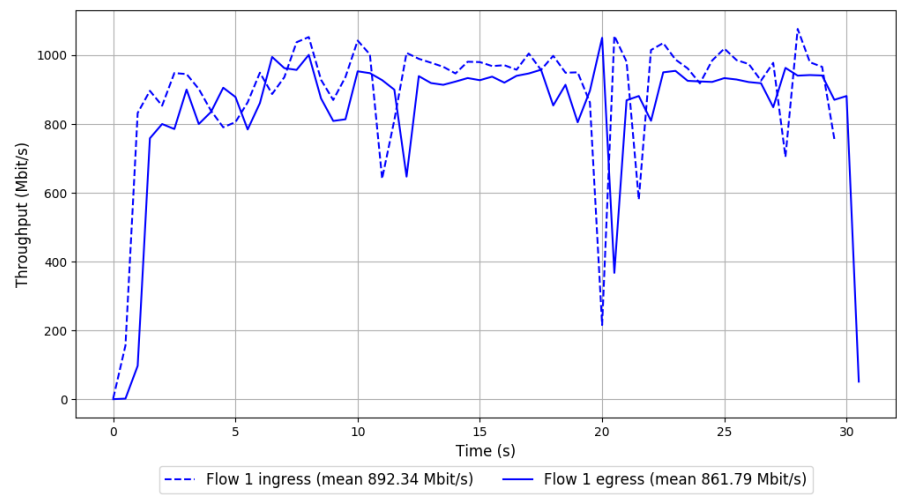
-- Flow 1:

Average throughput: 861.79 Mbit/s

95th percentile per-packet one-way delay: 246.289 ms

Loss rate: 3.33%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-11 23:16:24

End at: 2018-07-11 23:16:54

Local clock offset: 0.098 ms

Remote clock offset: 1.107 ms

Below is generated by plot.py at 2018-07-12 02:43:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 833.61 Mbit/s

95th percentile per-packet one-way delay: 241.528 ms

Loss rate: 4.99%

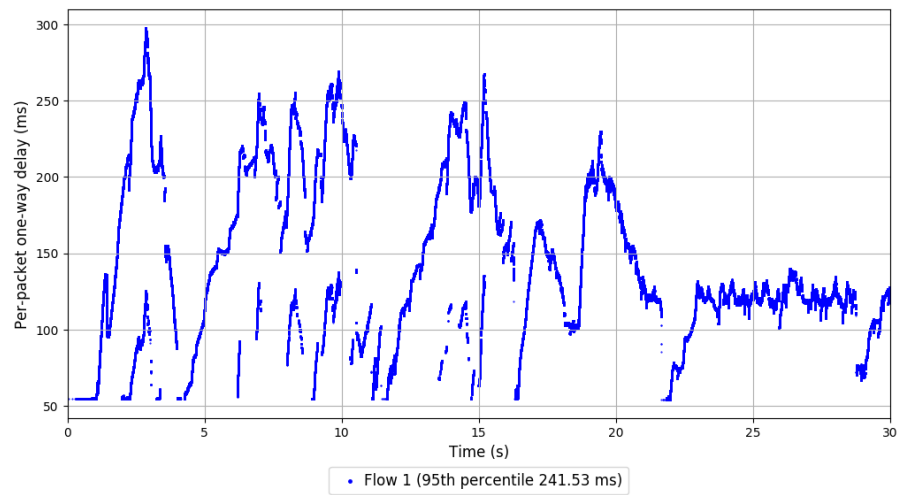
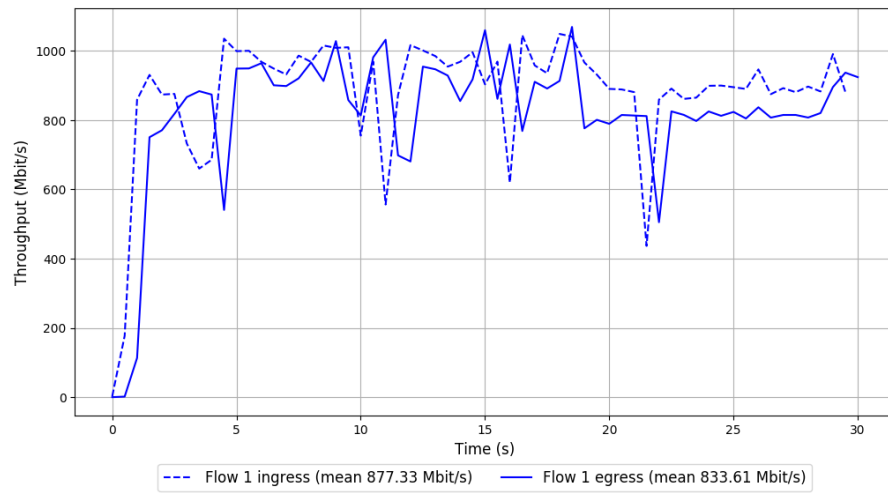
-- Flow 1:

Average throughput: 833.61 Mbit/s

95th percentile per-packet one-way delay: 241.528 ms

Loss rate: 4.99%

Run 4: Report of FillP-Sheep — Data Link

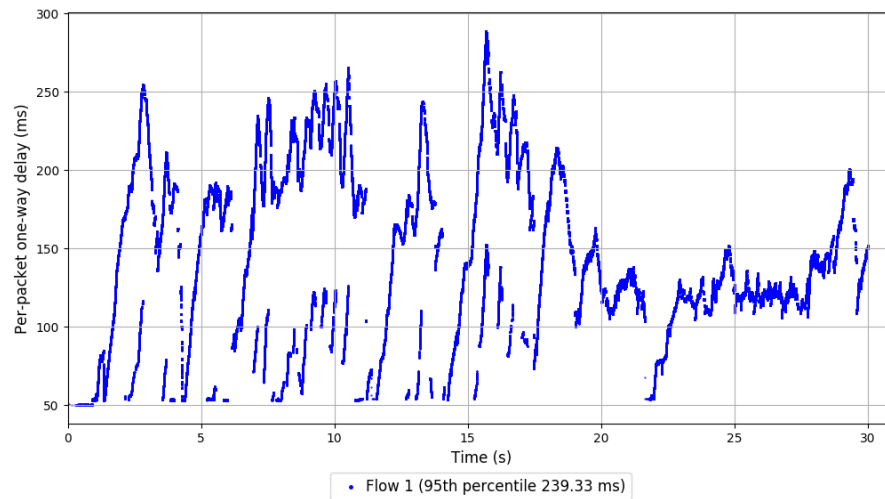
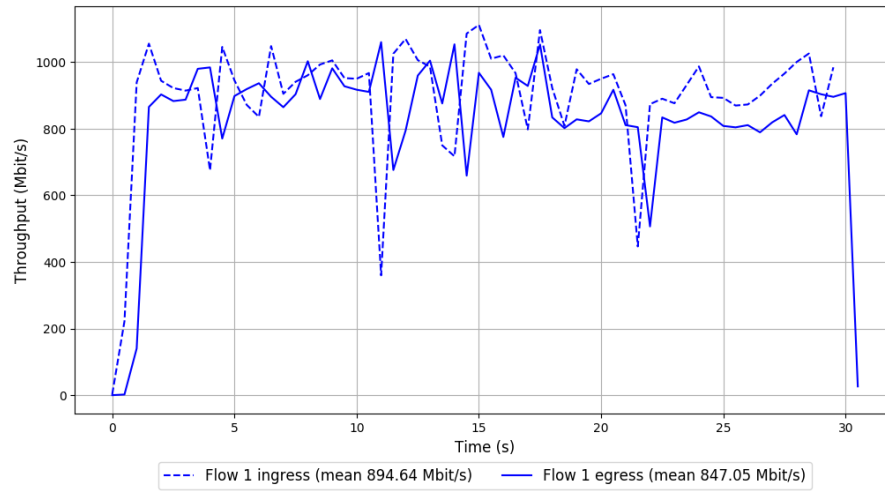


Run 5: Statistics of FillP-Sheep

Start at: 2018-07-11 23:38:31
End at: 2018-07-11 23:39:01
Local clock offset: -0.014 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-07-12 02:43:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 847.05 Mbit/s
95th percentile per-packet one-way delay: 239.329 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 847.05 Mbit/s
95th percentile per-packet one-way delay: 239.329 ms
Loss rate: 5.32%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-12 00:00:42

End at: 2018-07-12 00:01:12

Local clock offset: -0.001 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-07-12 02:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 631.68 Mbit/s

95th percentile per-packet one-way delay: 237.836 ms

Loss rate: 4.54%

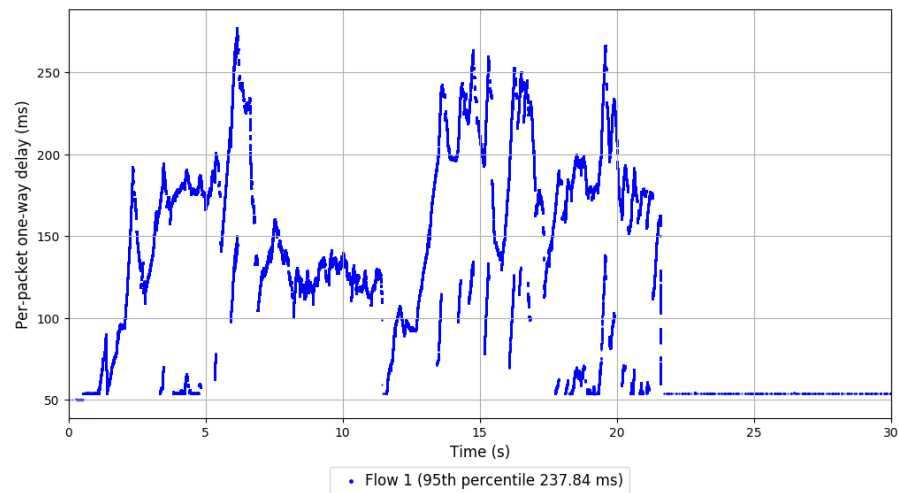
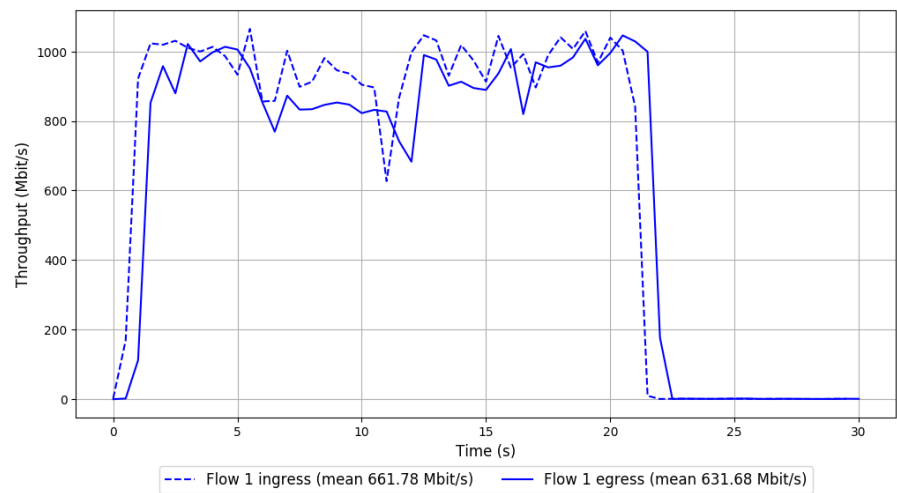
-- Flow 1:

Average throughput: 631.68 Mbit/s

95th percentile per-packet one-way delay: 237.836 ms

Loss rate: 4.54%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-12 00:22:31

End at: 2018-07-12 00:23:01

Local clock offset: -0.046 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2018-07-12 02:50:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.78 Mbit/s

95th percentile per-packet one-way delay: 243.083 ms

Loss rate: 5.24%

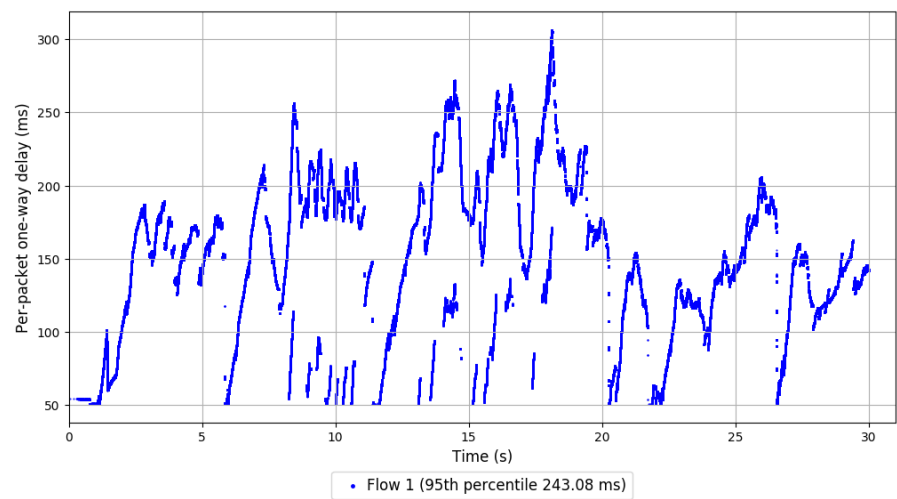
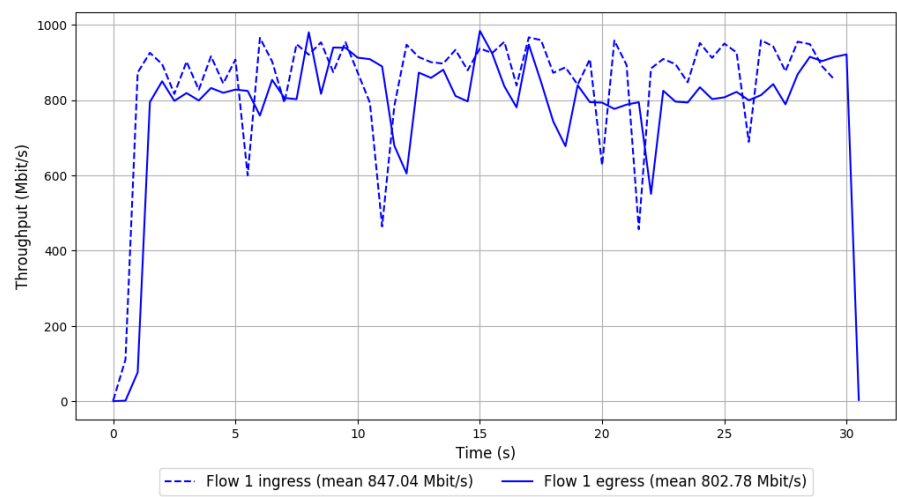
-- Flow 1:

Average throughput: 802.78 Mbit/s

95th percentile per-packet one-way delay: 243.083 ms

Loss rate: 5.24%

Run 7: Report of FillP-Sheep — Data Link

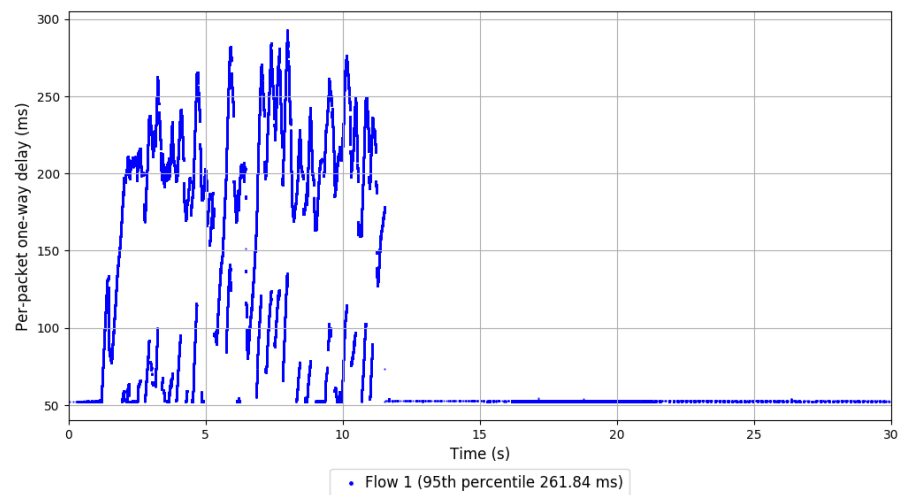
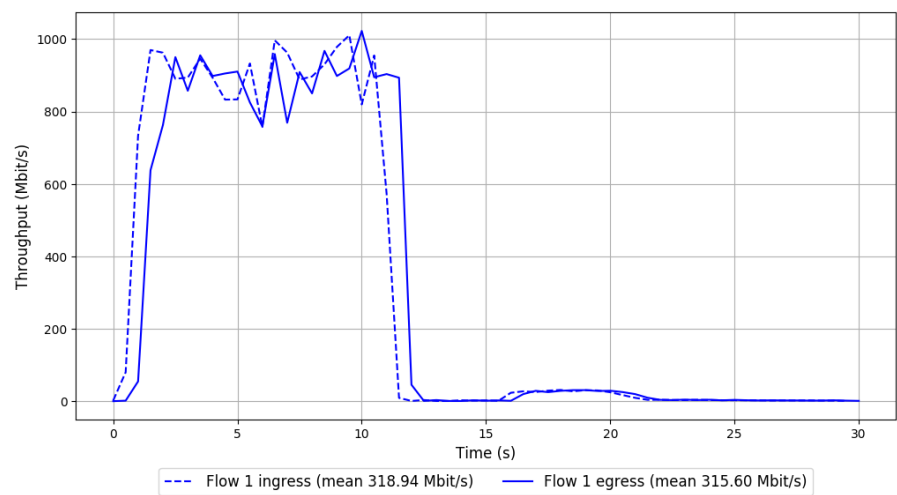


Run 8: Statistics of FillP-Sheep

Start at: 2018-07-12 00:44:50
End at: 2018-07-12 00:45:20
Local clock offset: 0.002 ms
Remote clock offset: -1.341 ms

Below is generated by plot.py at 2018-07-12 02:50:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 315.60 Mbit/s
95th percentile per-packet one-way delay: 261.840 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 315.60 Mbit/s
95th percentile per-packet one-way delay: 261.840 ms
Loss rate: 1.05%

Run 8: Report of FillP-Sheep — Data Link

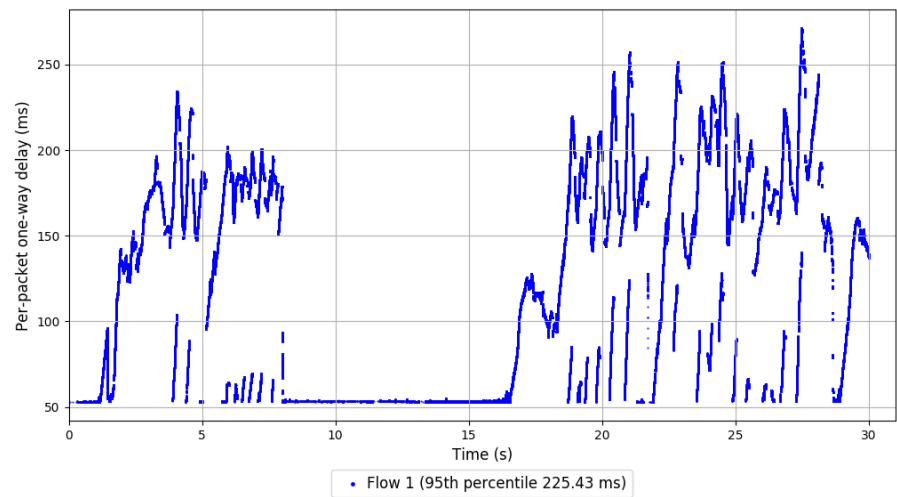
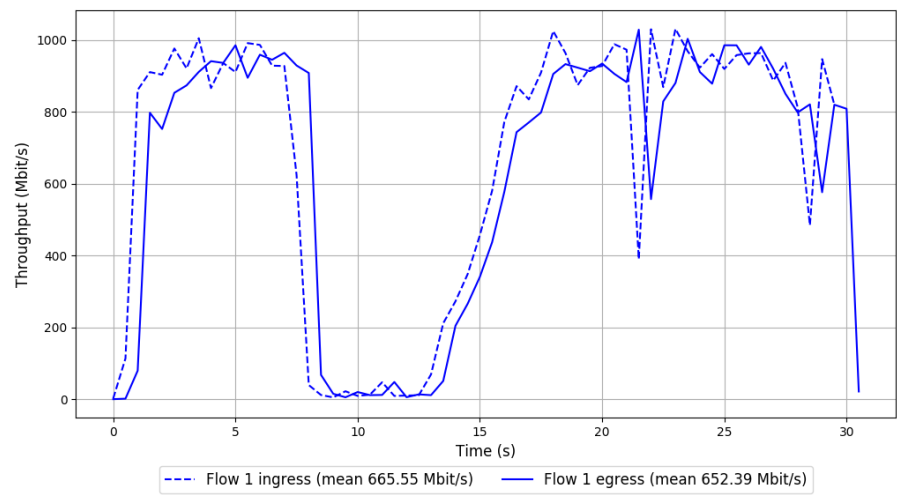


Run 9: Statistics of FillP-Sheep

Start at: 2018-07-12 01:06:20
End at: 2018-07-12 01:06:50
Local clock offset: -0.285 ms
Remote clock offset: -0.459 ms

Below is generated by plot.py at 2018-07-12 02:54:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 652.39 Mbit/s
95th percentile per-packet one-way delay: 225.430 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 652.39 Mbit/s
95th percentile per-packet one-way delay: 225.430 ms
Loss rate: 1.99%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-12 01:28:10

End at: 2018-07-12 01:28:40

Local clock offset: 0.247 ms

Remote clock offset: 1.26 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 832.44 Mbit/s

95th percentile per-packet one-way delay: 163.839 ms

Loss rate: 6.34%

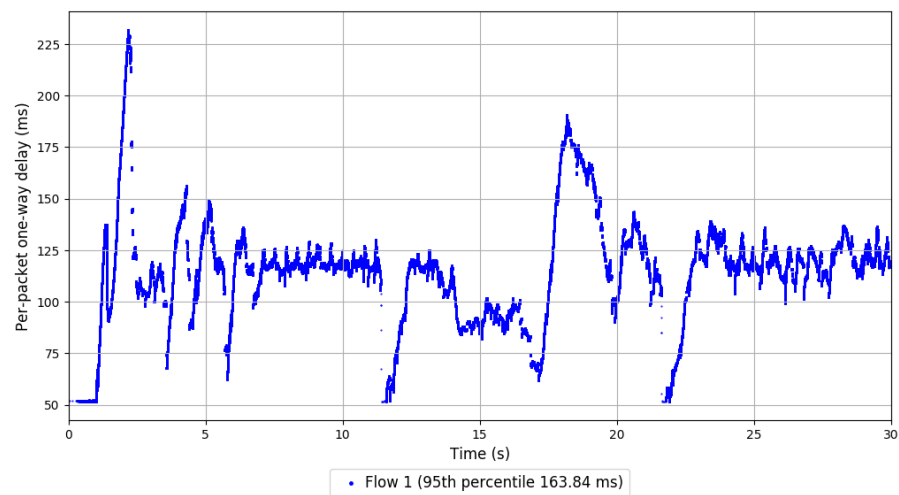
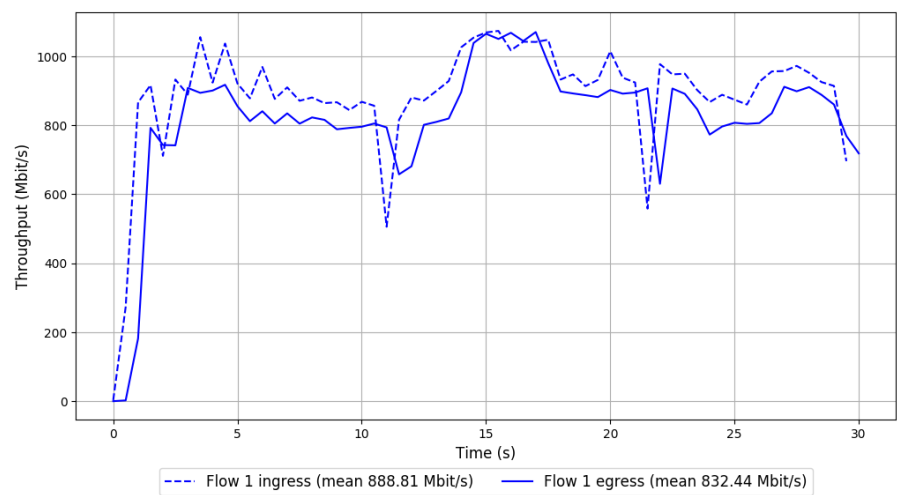
-- Flow 1:

Average throughput: 832.44 Mbit/s

95th percentile per-packet one-way delay: 163.839 ms

Loss rate: 6.34%

Run 10: Report of FillP-Sheep — Data Link

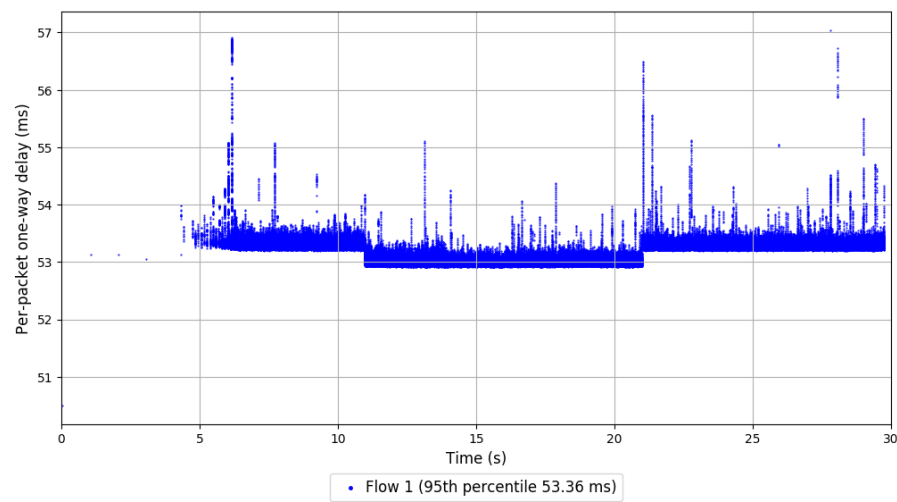
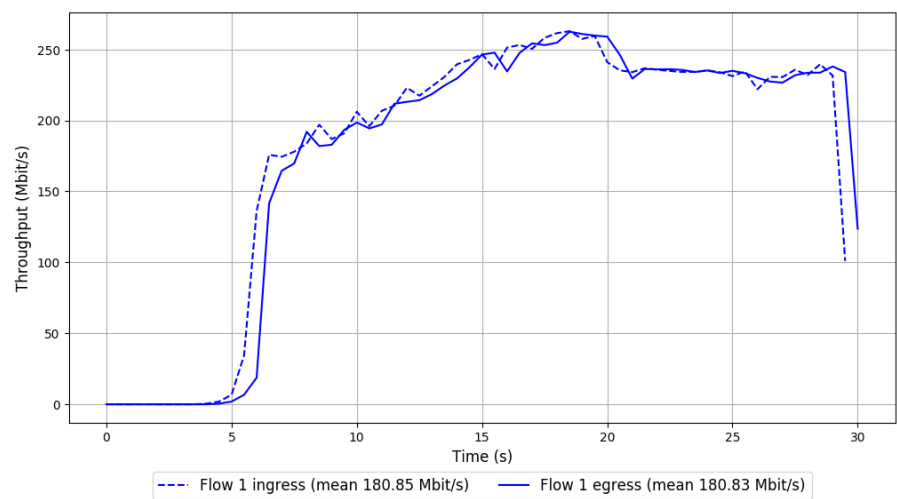


```
Run 1: Statistics of Indigo

Start at: 2018-07-11 22:12:31
End at: 2018-07-11 22:13:01
Local clock offset: -0.098 ms
Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-07-12 02:59:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.83 Mbit/s
95th percentile per-packet one-way delay: 53.363 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 180.83 Mbit/s
95th percentile per-packet one-way delay: 53.363 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link

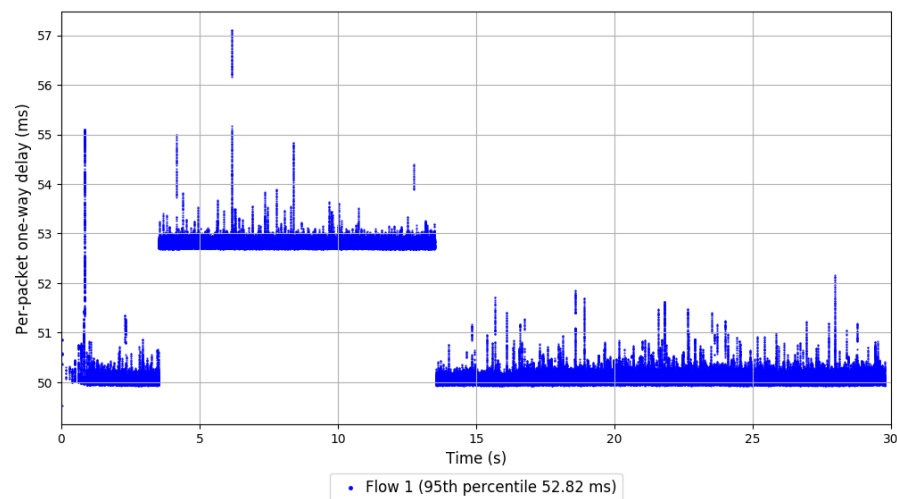
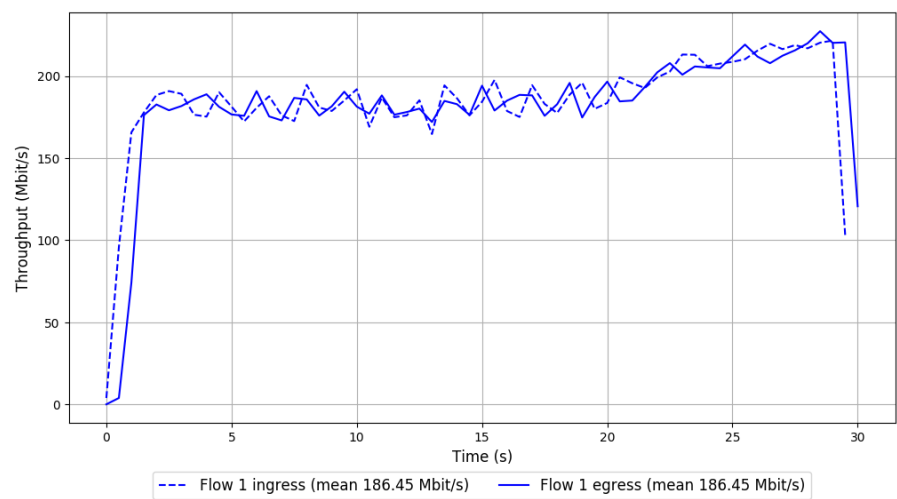


Run 2: Statistics of Indigo

Start at: 2018-07-11 22:34:08
End at: 2018-07-11 22:34:38
Local clock offset: -0.042 ms
Remote clock offset: -0.449 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 186.45 Mbit/s
95th percentile per-packet one-way delay: 52.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.45 Mbit/s
95th percentile per-packet one-way delay: 52.824 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

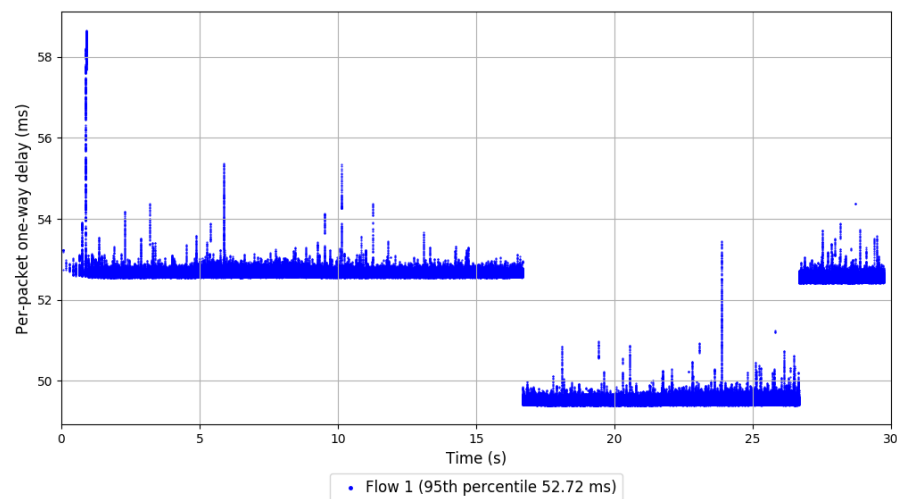
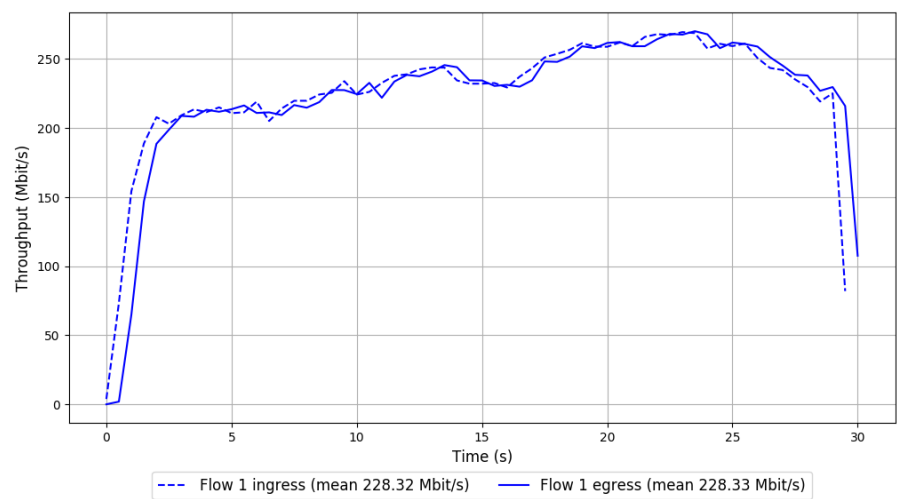


Run 3: Statistics of Indigo

Start at: 2018-07-11 22:56:15
End at: 2018-07-11 22:56:45
Local clock offset: -0.158 ms
Remote clock offset: -1.172 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.33 Mbit/s
95th percentile per-packet one-way delay: 52.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.33 Mbit/s
95th percentile per-packet one-way delay: 52.716 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-11 23:18:03

End at: 2018-07-11 23:18:33

Local clock offset: -0.045 ms

Remote clock offset: 0.157 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.76 Mbit/s

95th percentile per-packet one-way delay: 53.850 ms

Loss rate: 0.01%

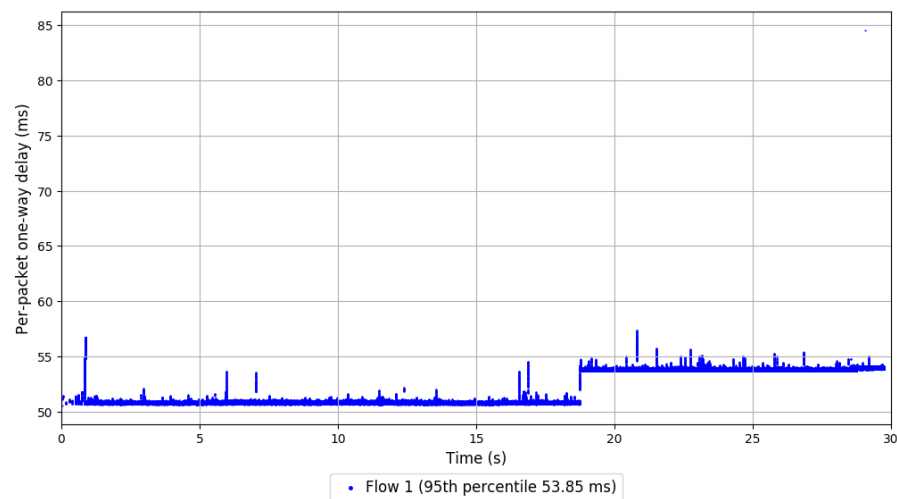
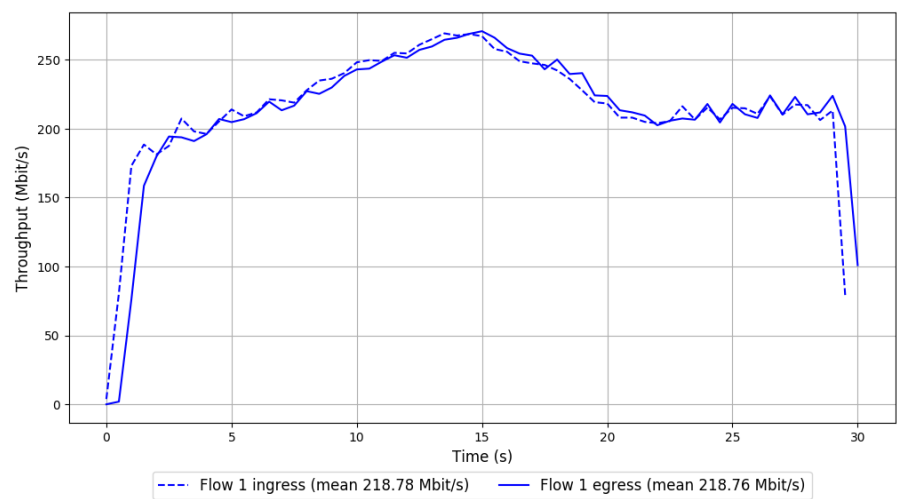
-- Flow 1:

Average throughput: 218.76 Mbit/s

95th percentile per-packet one-way delay: 53.850 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-11 23:40:11

End at: 2018-07-11 23:40:41

Local clock offset: -0.204 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.66 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.00%

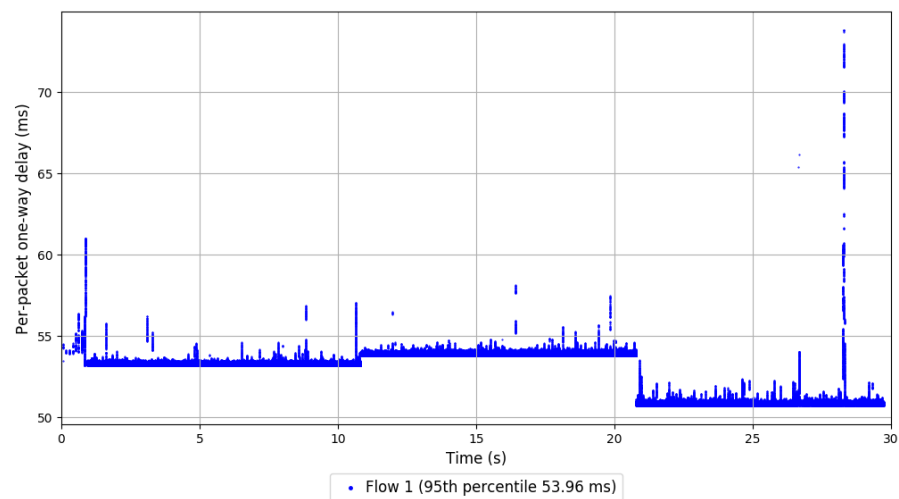
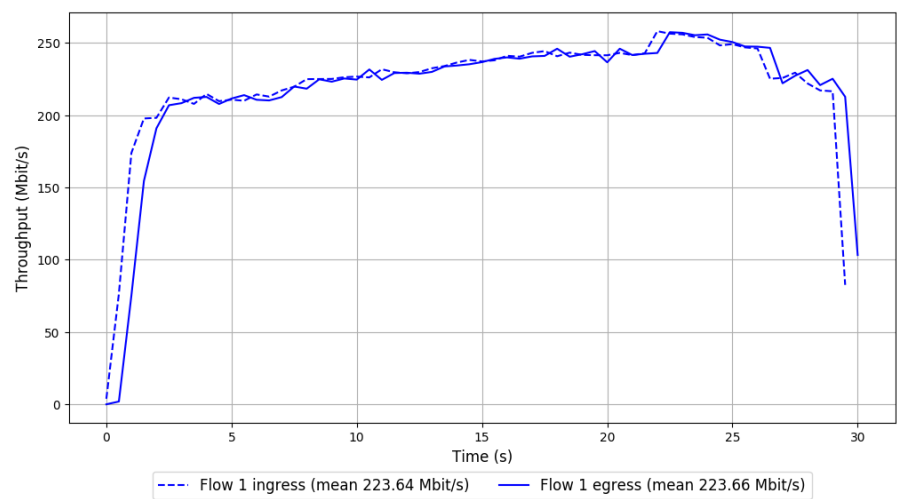
-- Flow 1:

Average throughput: 223.66 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

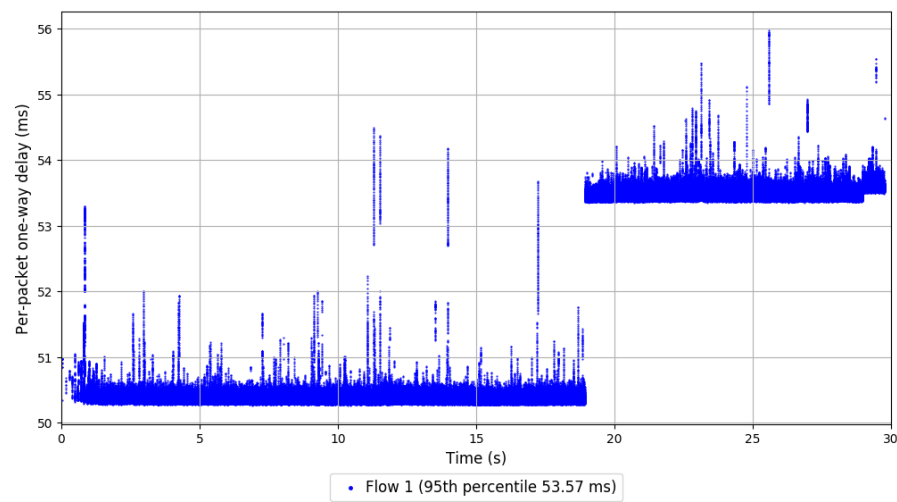
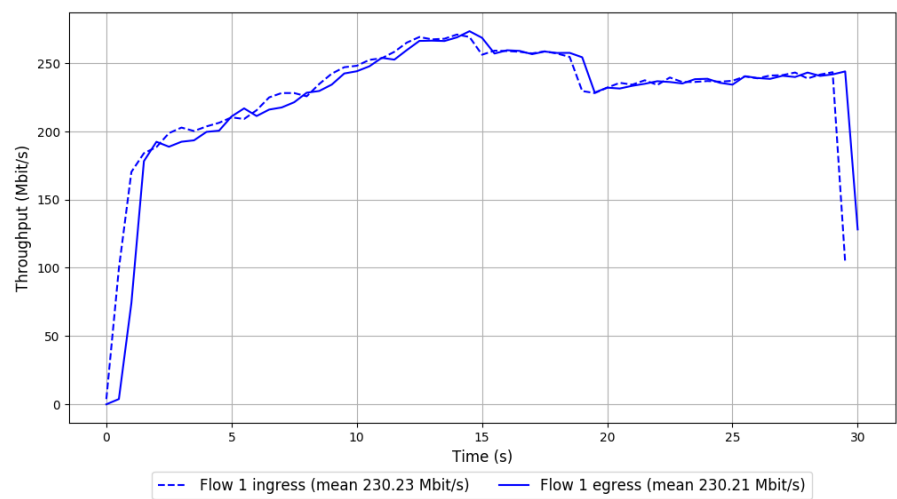


Run 6: Statistics of Indigo

Start at: 2018-07-12 00:02:13
End at: 2018-07-12 00:02:43
Local clock offset: -0.114 ms
Remote clock offset: -0.258 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 230.21 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.21 Mbit/s
95th percentile per-packet one-way delay: 53.574 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-12 00:24:09

End at: 2018-07-12 00:24:39

Local clock offset: 0.064 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.69 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.01%

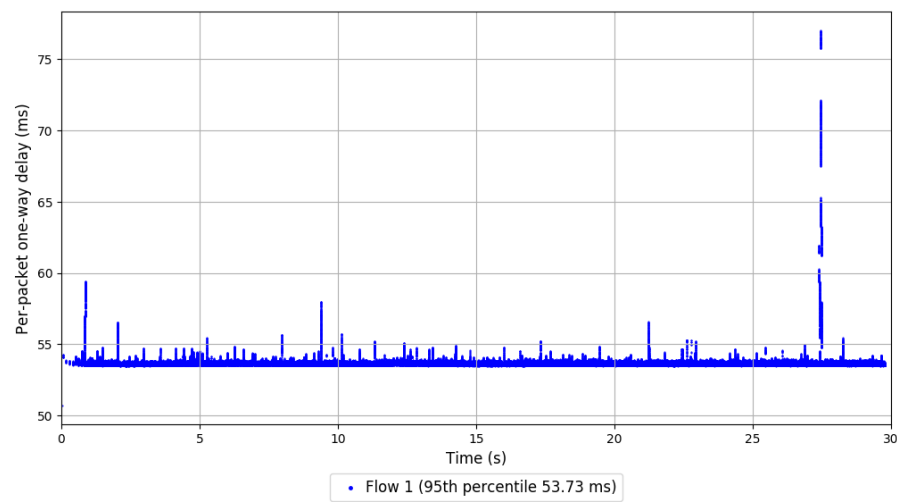
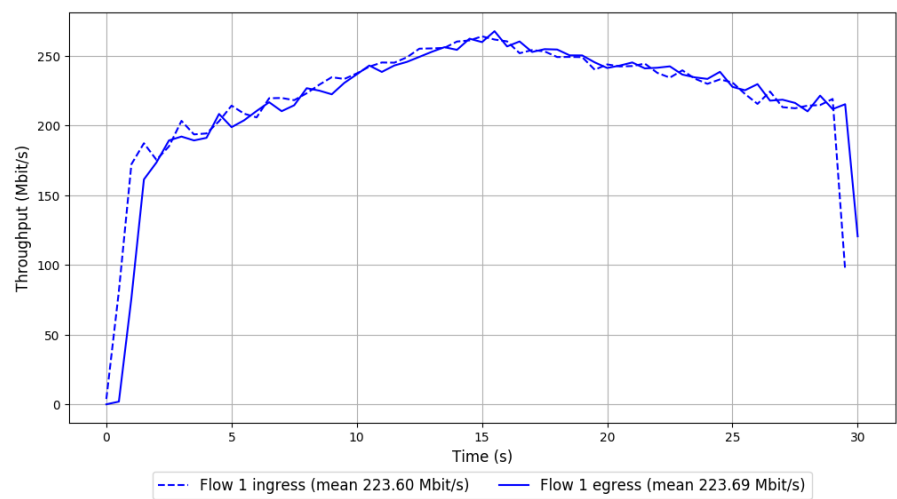
-- Flow 1:

Average throughput: 223.69 Mbit/s

95th percentile per-packet one-way delay: 53.726 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link

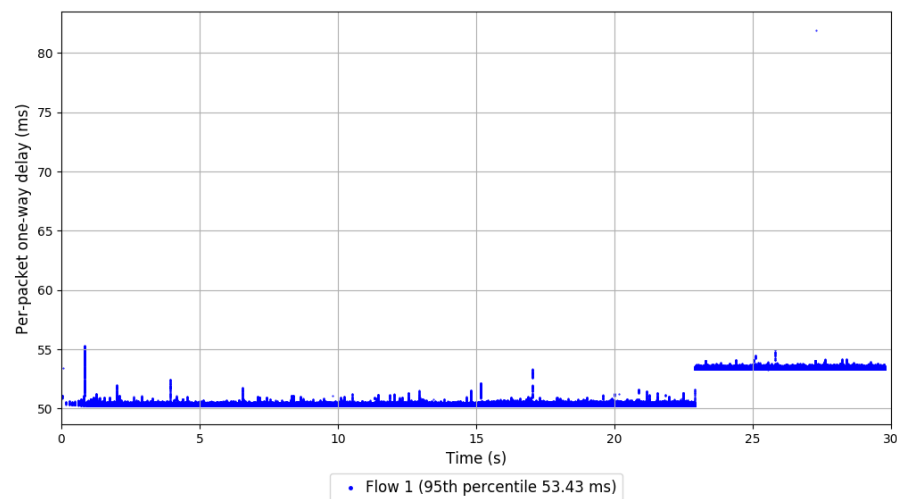
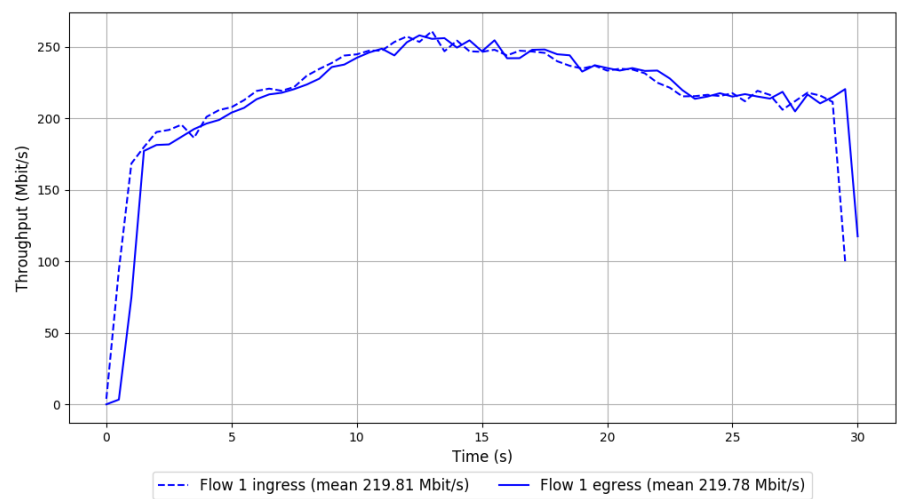


Run 8: Statistics of Indigo

Start at: 2018-07-12 00:46:09
End at: 2018-07-12 00:46:39
Local clock offset: -0.094 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.78 Mbit/s
95th percentile per-packet one-way delay: 53.430 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 219.78 Mbit/s
95th percentile per-packet one-way delay: 53.430 ms
Loss rate: 0.01%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-12 01:07:52

End at: 2018-07-12 01:08:22

Local clock offset: 0.074 ms

Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.08 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.00%

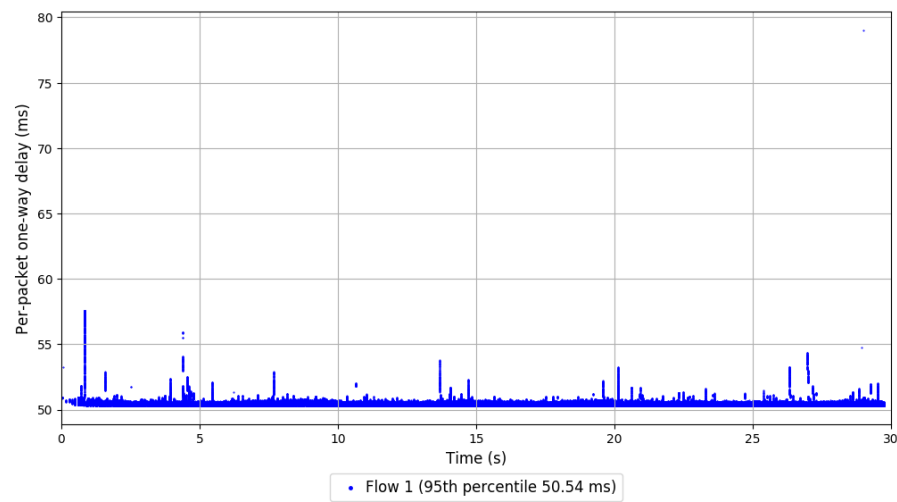
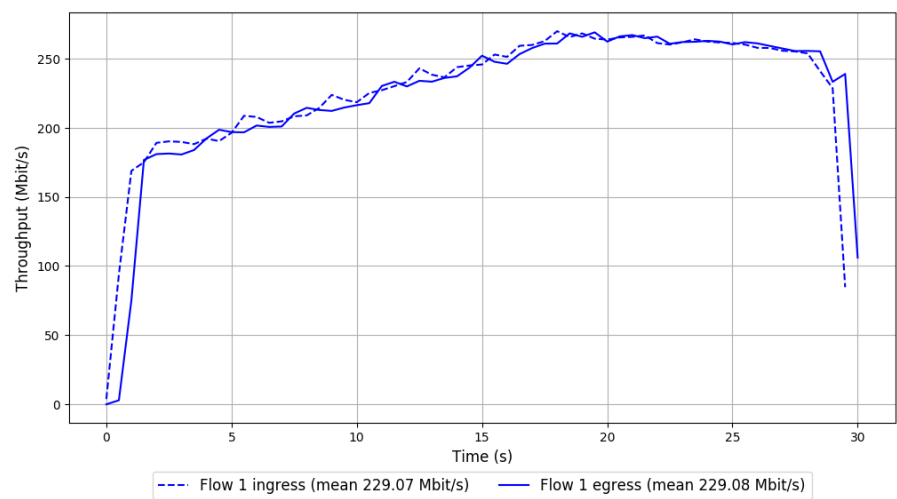
-- Flow 1:

Average throughput: 229.08 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

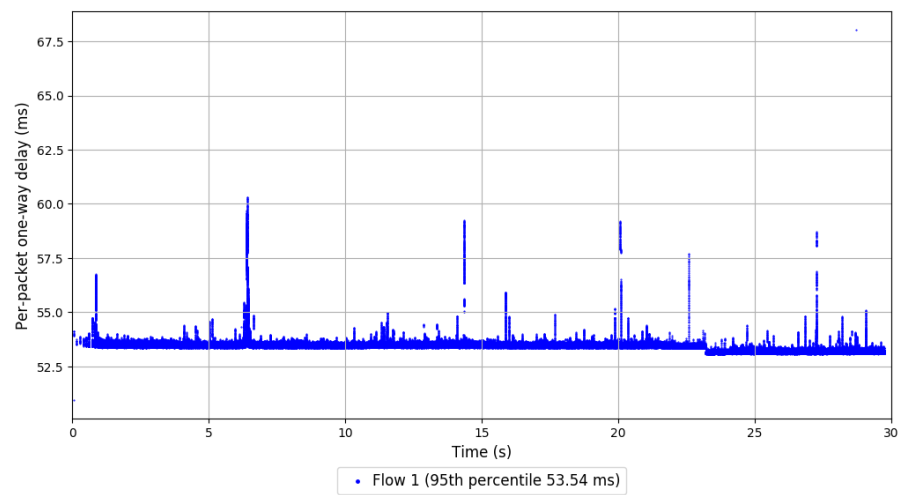
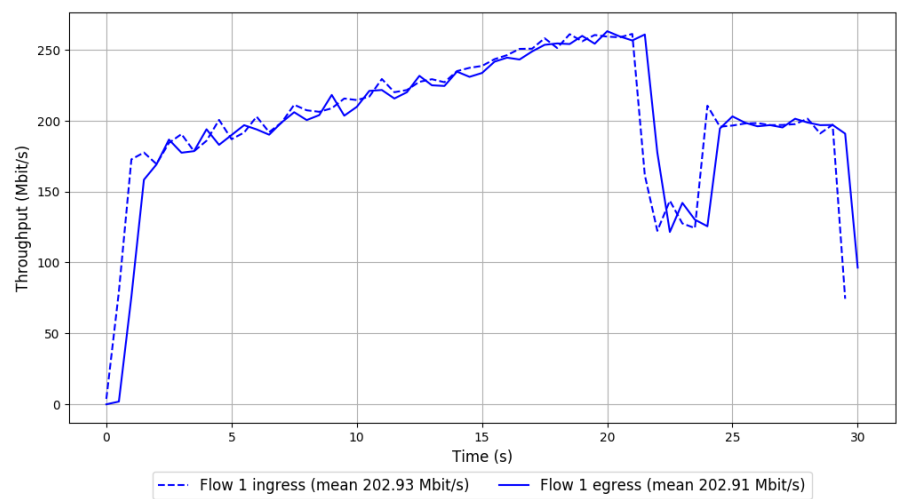


Run 10: Statistics of Indigo

Start at: 2018-07-12 01:29:49
End at: 2018-07-12 01:30:19
Local clock offset: -0.171 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.91 Mbit/s
95th percentile per-packet one-way delay: 53.544 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 202.91 Mbit/s
95th percentile per-packet one-way delay: 53.544 ms
Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

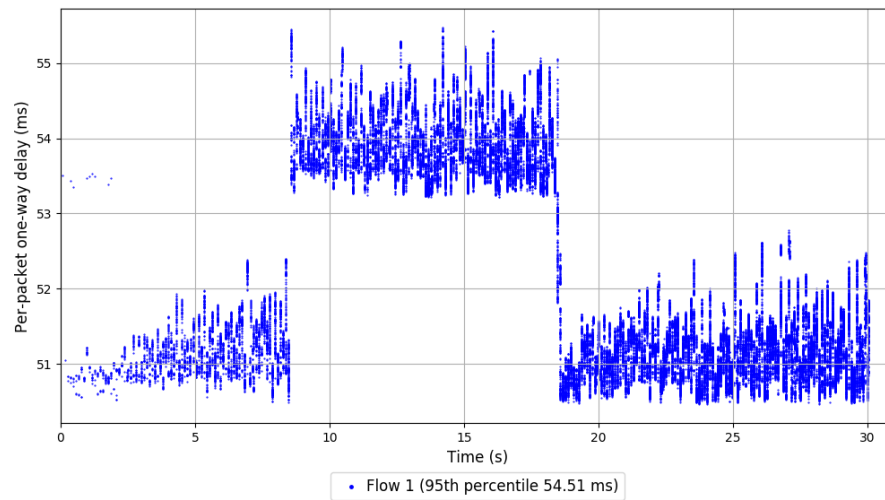
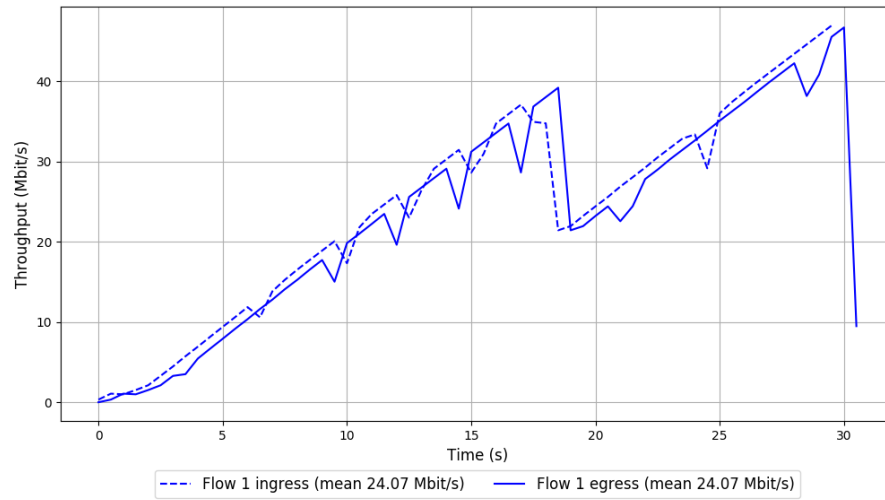


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-11 22:17:34
End at: 2018-07-11 22:18:04
Local clock offset: -0.118 ms
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-07-12 02:59:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.07 Mbit/s
95th percentile per-packet one-way delay: 54.509 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.07 Mbit/s
95th percentile per-packet one-way delay: 54.509 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

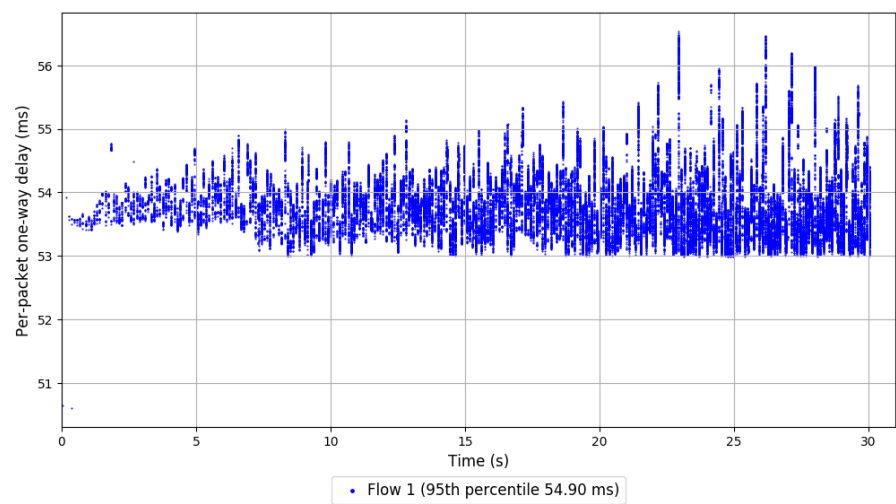
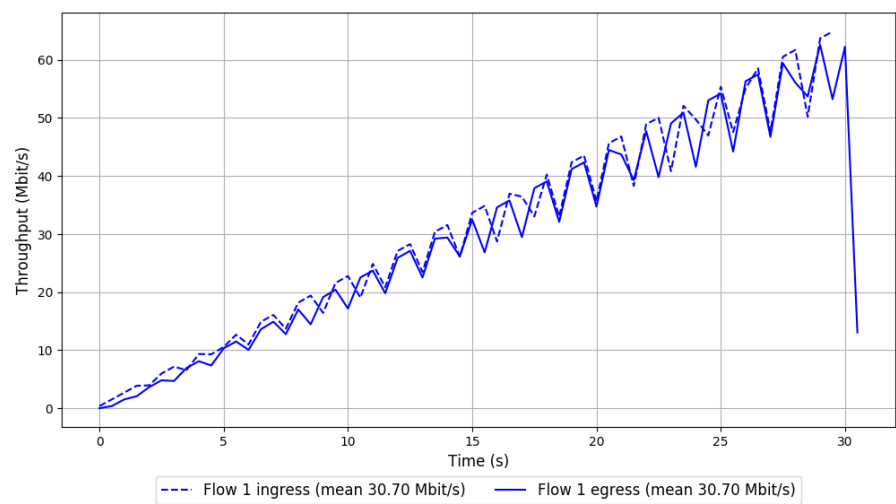


Run 2: Statistics of LEDBAT

Start at: 2018-07-11 22:39:15
End at: 2018-07-11 22:39:45
Local clock offset: -0.136 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.70 Mbit/s
95th percentile per-packet one-way delay: 54.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.70 Mbit/s
95th percentile per-packet one-way delay: 54.904 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

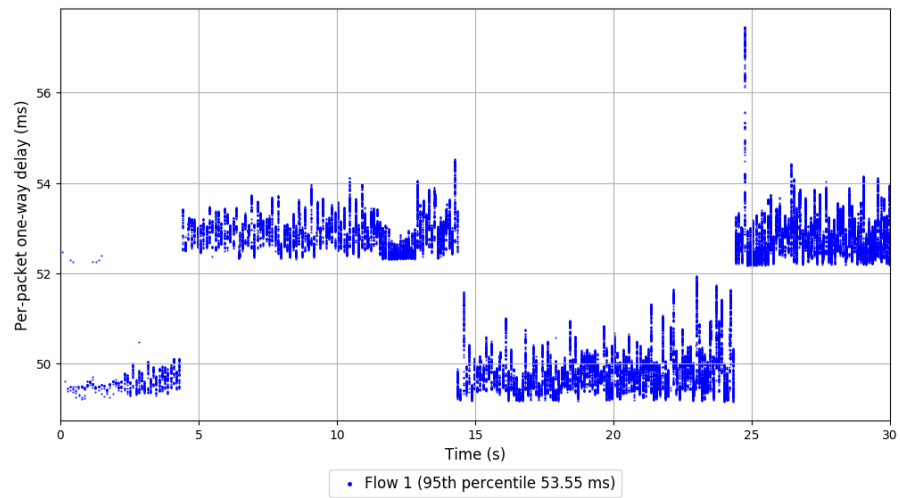
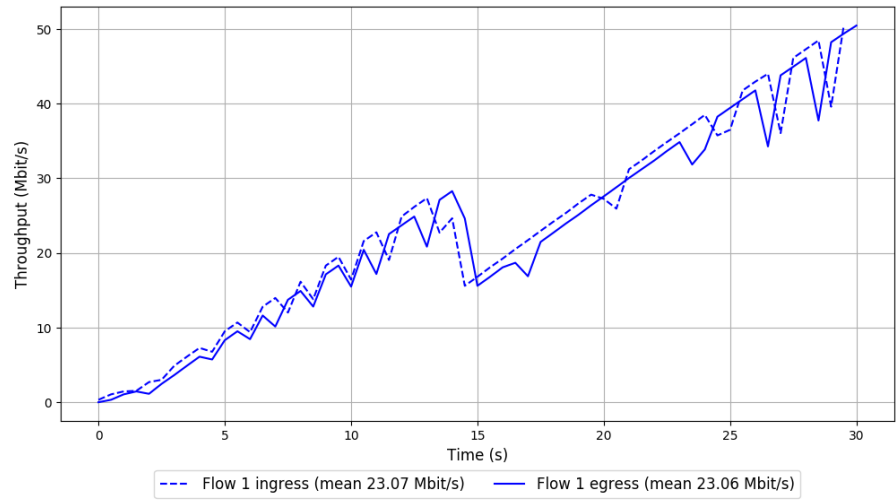


Run 3: Statistics of LEDBAT

Start at: 2018-07-11 23:01:28
End at: 2018-07-11 23:01:58
Local clock offset: -0.122 ms
Remote clock offset: -1.384 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 53.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 23.06 Mbit/s
95th percentile per-packet one-way delay: 53.554 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

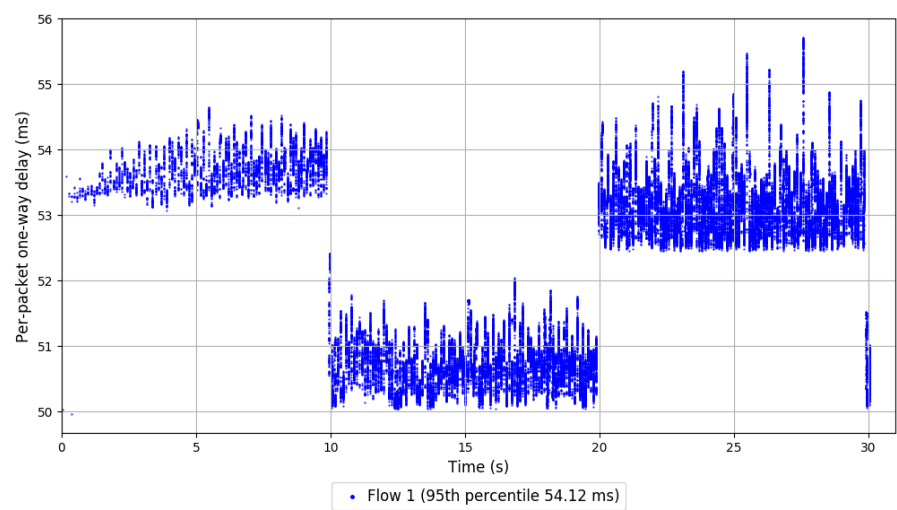
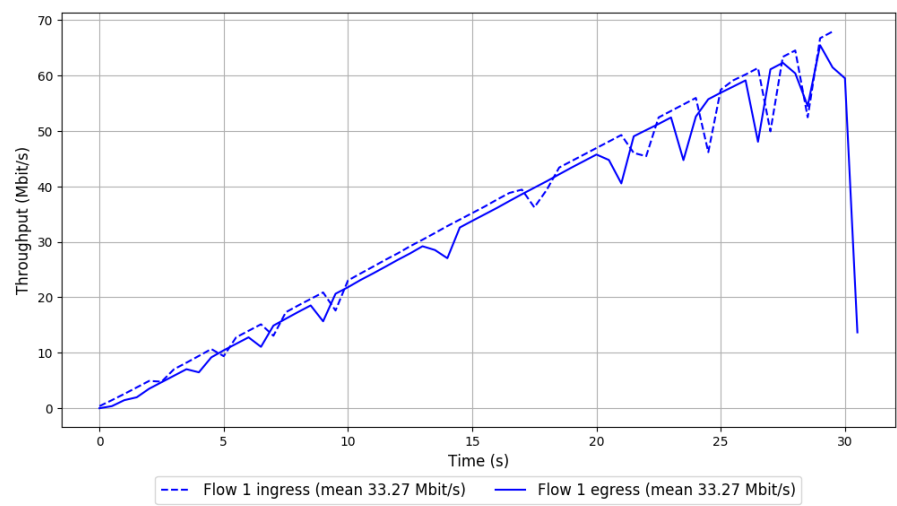


Run 4: Statistics of LEDBAT

Start at: 2018-07-11 23:23:12
End at: 2018-07-11 23:23:42
Local clock offset: 0.15 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 54.118 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.27 Mbit/s
95th percentile per-packet one-way delay: 54.118 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-11 23:45:26

End at: 2018-07-11 23:45:56

Local clock offset: -0.045 ms

Remote clock offset: 1.321 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.88 Mbit/s

95th percentile per-packet one-way delay: 53.265 ms

Loss rate: 0.00%

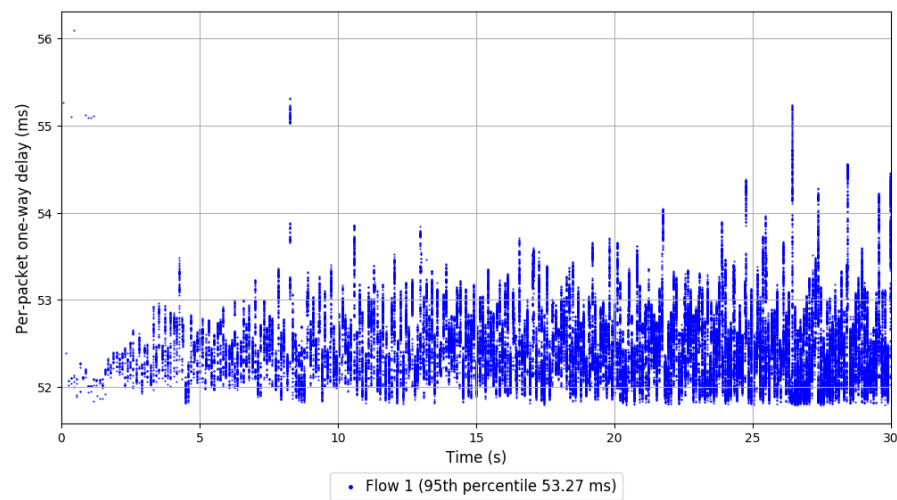
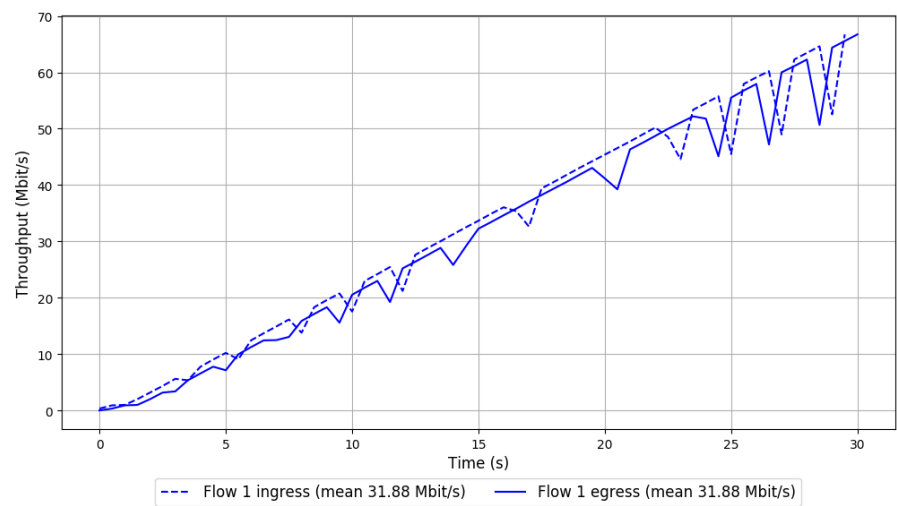
-- Flow 1:

Average throughput: 31.88 Mbit/s

95th percentile per-packet one-way delay: 53.265 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

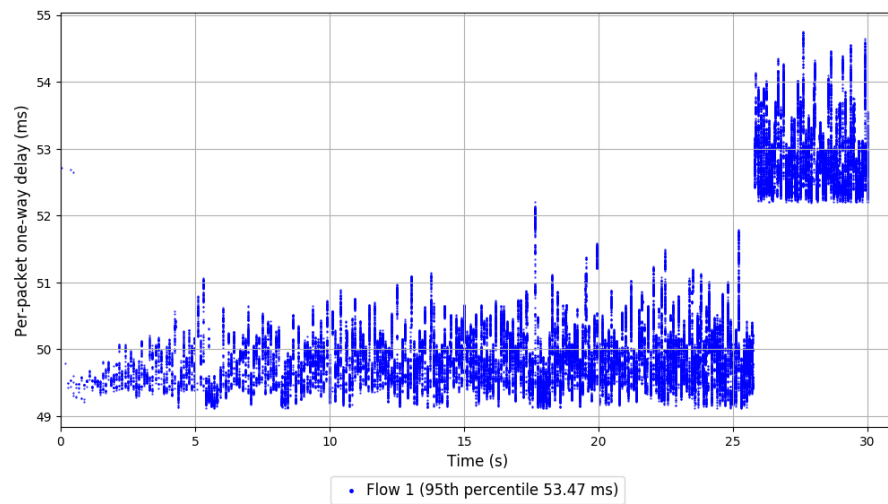
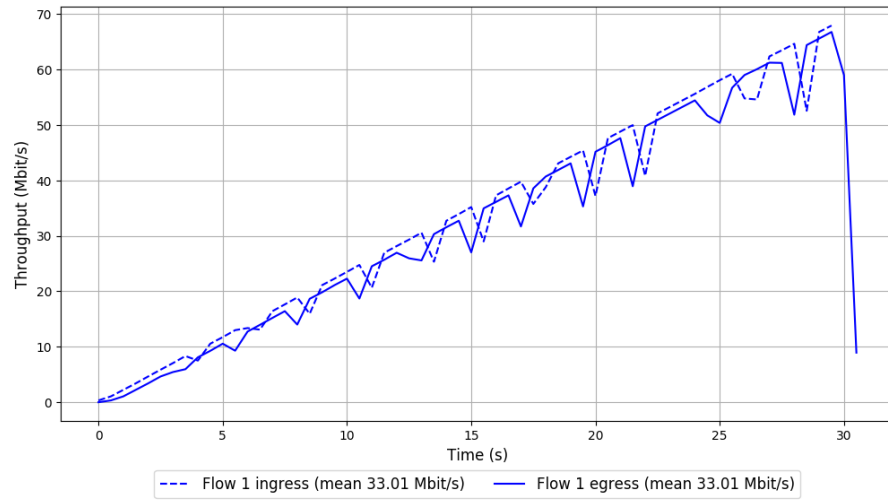


Run 6: Statistics of LEDBAT

Start at: 2018-07-12 00:07:16
End at: 2018-07-12 00:07:46
Local clock offset: -0.173 ms
Remote clock offset: -1.496 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 53.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.01 Mbit/s
95th percentile per-packet one-way delay: 53.468 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-12 00:29:29

End at: 2018-07-12 00:29:59

Local clock offset: -0.256 ms

Remote clock offset: 1.198 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 56.255 ms

Loss rate: 0.13%

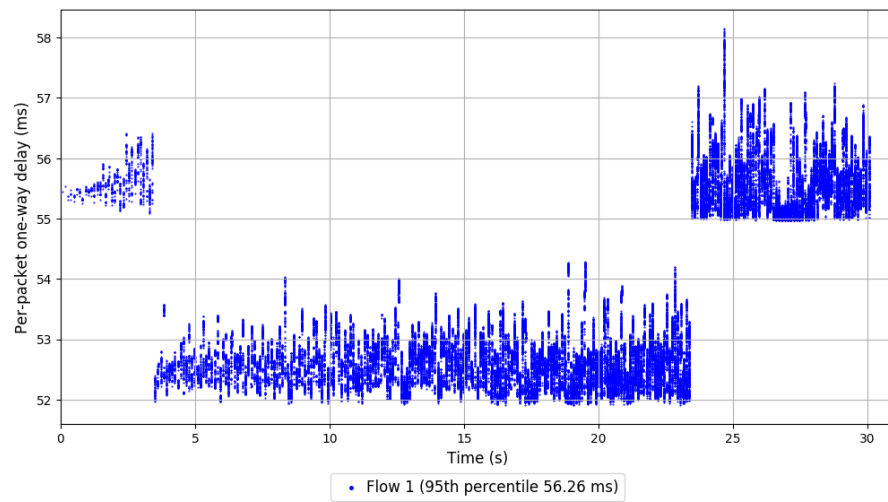
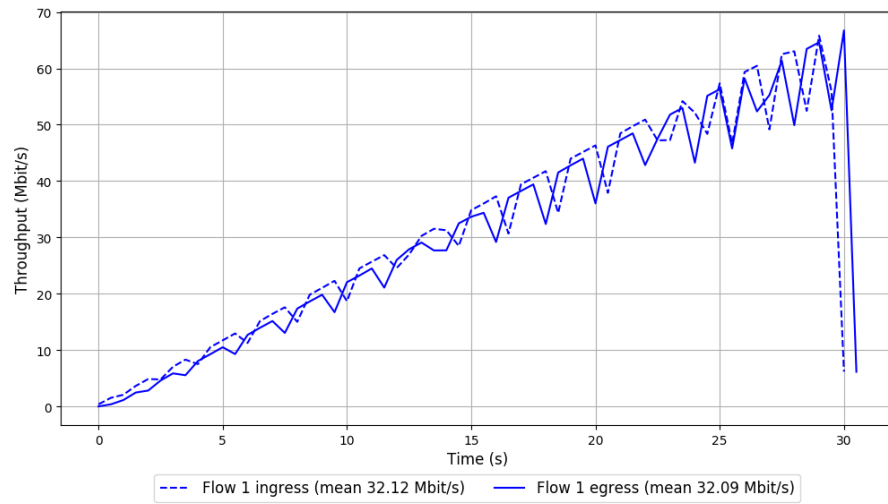
-- Flow 1:

Average throughput: 32.09 Mbit/s

95th percentile per-packet one-way delay: 56.255 ms

Loss rate: 0.13%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-12 00:51:24

End at: 2018-07-12 00:51:54

Local clock offset: -0.028 ms

Remote clock offset: 0.075 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 54.661 ms

Loss rate: 0.00%

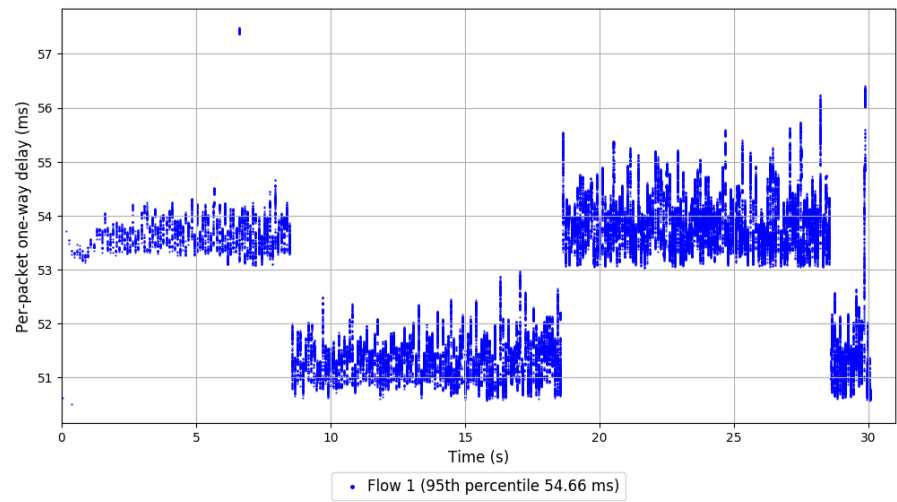
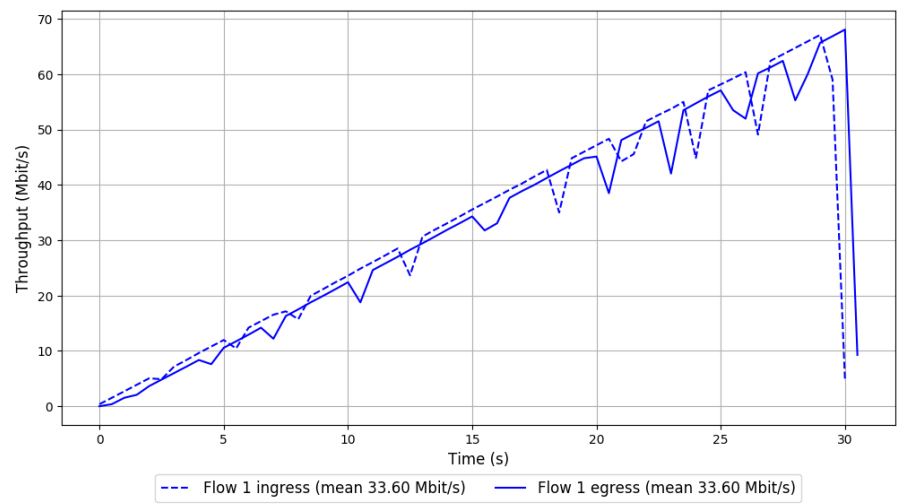
-- Flow 1:

Average throughput: 33.60 Mbit/s

95th percentile per-packet one-way delay: 54.661 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-12 01:12:52

End at: 2018-07-12 01:13:22

Local clock offset: 0.029 ms

Remote clock offset: 1.26 ms

Below is generated by plot.py at 2018-07-12 02:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 56.014 ms

Loss rate: 0.00%

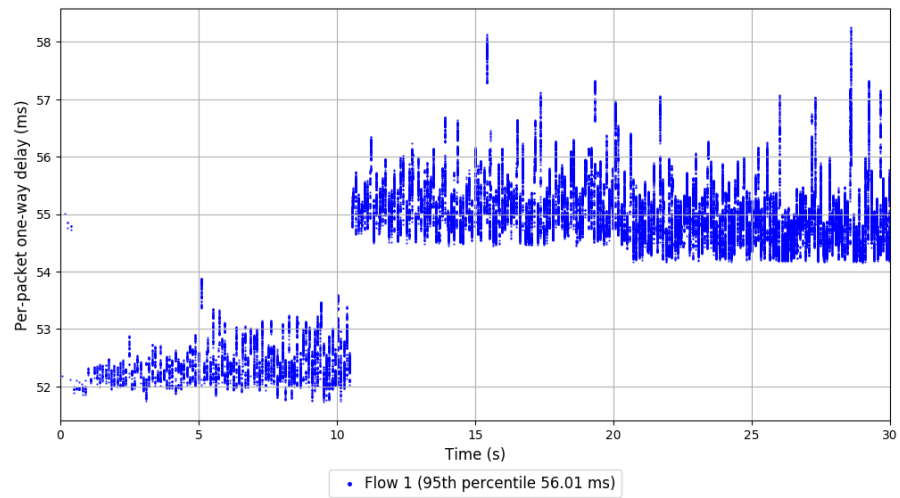
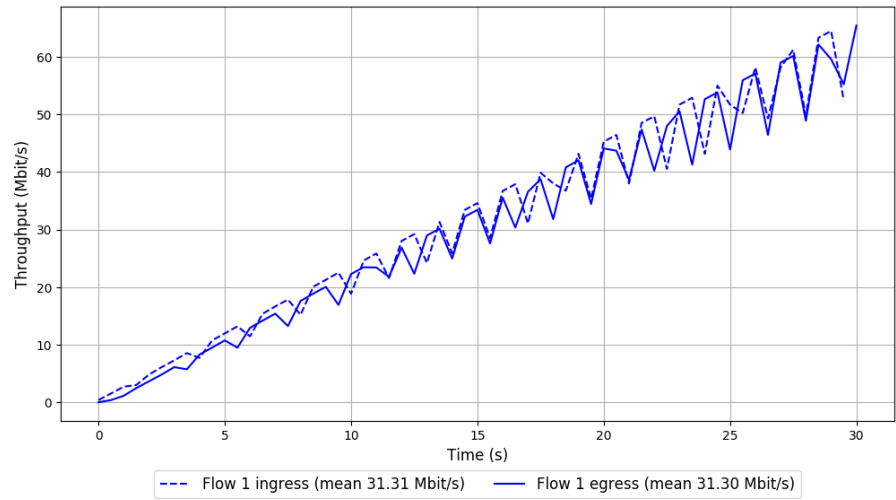
-- Flow 1:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 56.014 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

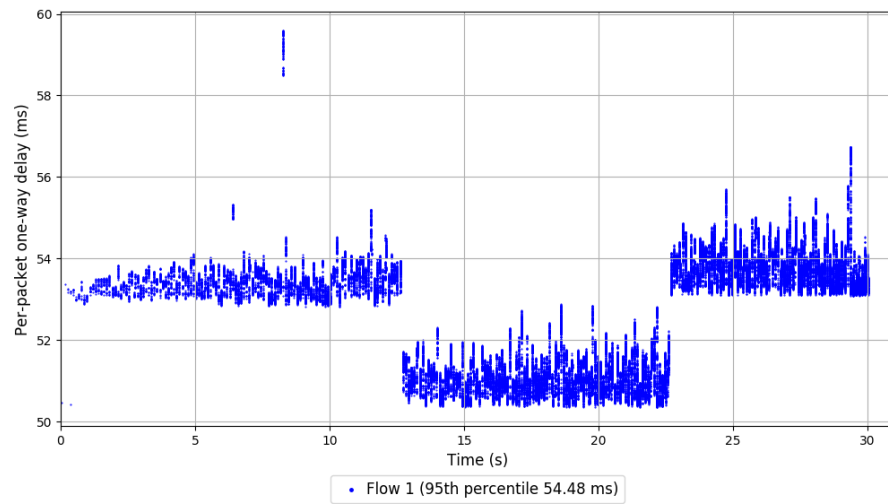
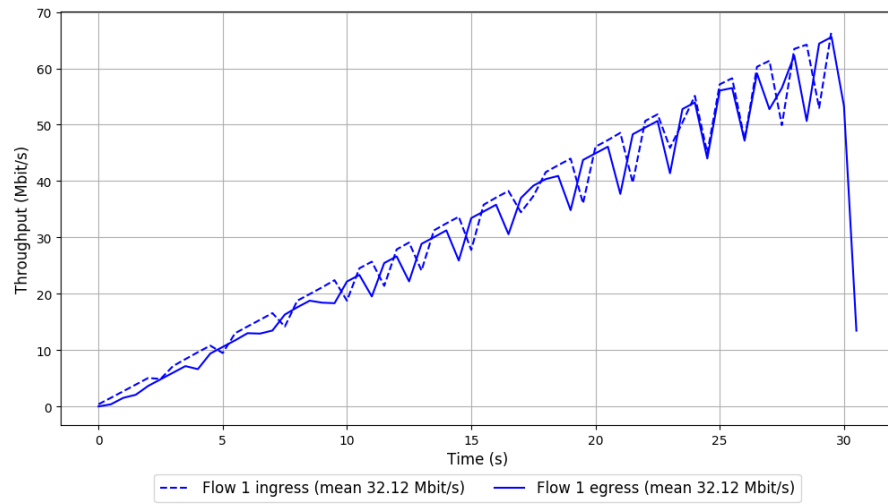


Run 10: Statistics of LEDBAT

Start at: 2018-07-12 01:34:50
End at: 2018-07-12 01:35:20
Local clock offset: -0.124 ms
Remote clock offset: -0.238 ms

Below is generated by plot.py at 2018-07-12 02:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 54.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.12 Mbit/s
95th percentile per-packet one-way delay: 54.483 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-11 22:23:20

End at: 2018-07-11 22:23:50

Local clock offset: -0.15 ms

Remote clock offset: 1.339 ms

Below is generated by plot.py at 2018-07-12 03:00:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.91 Mbit/s

95th percentile per-packet one-way delay: 215.392 ms

Loss rate: 6.42%

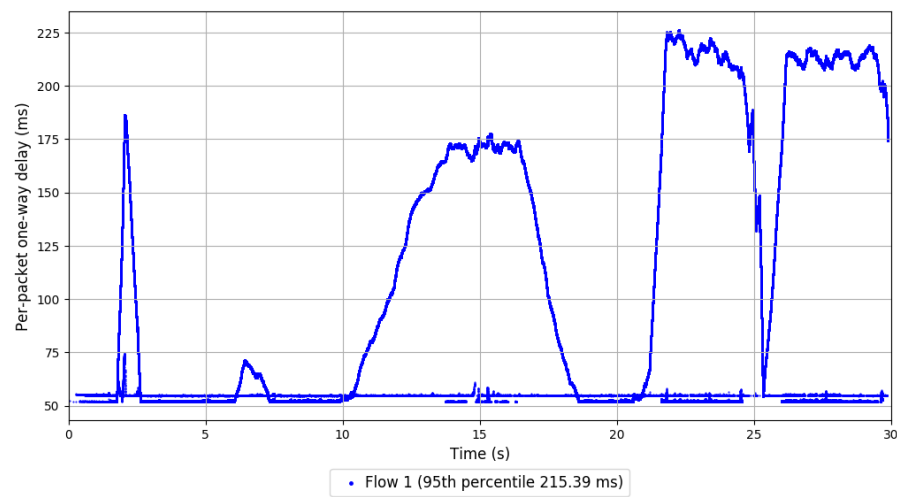
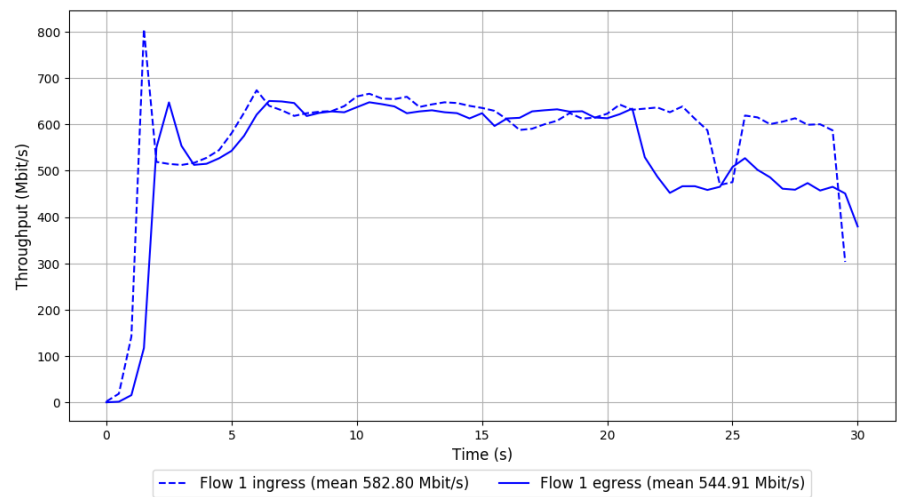
-- Flow 1:

Average throughput: 544.91 Mbit/s

95th percentile per-packet one-way delay: 215.392 ms

Loss rate: 6.42%

Run 1: Report of PCC-Allegro — Data Link

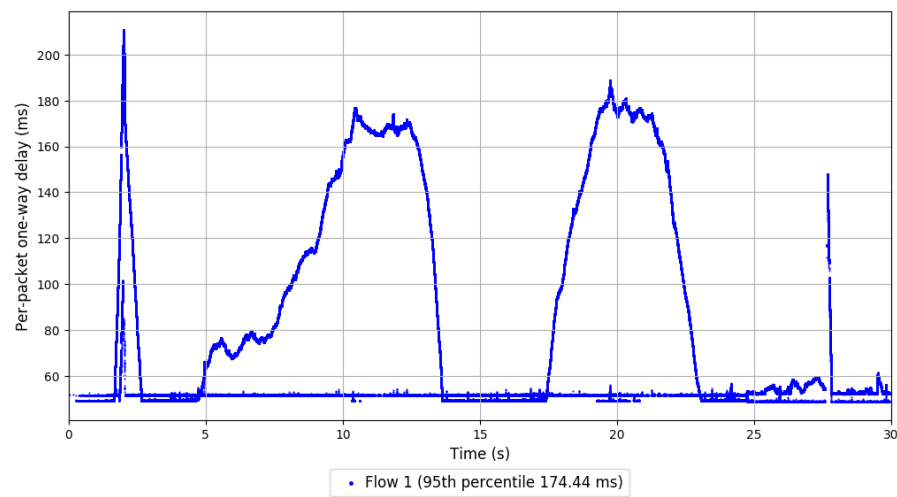
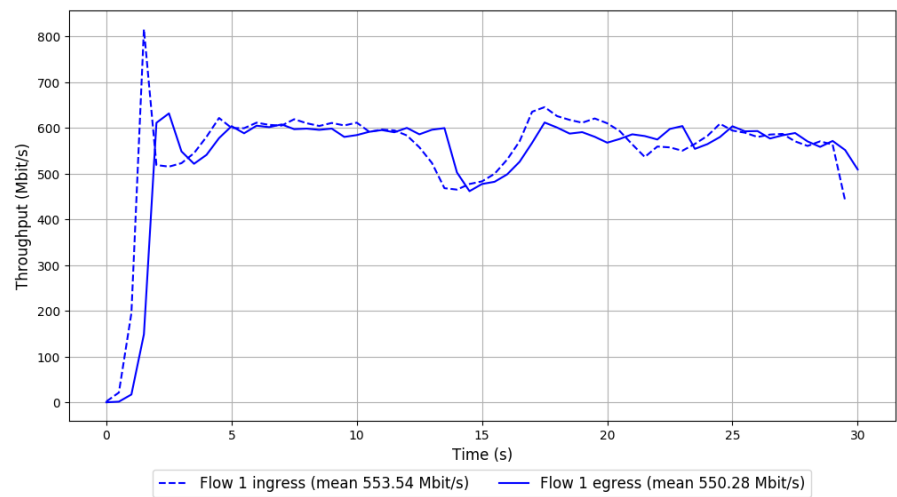


Run 2: Statistics of PCC-Allegro

Start at: 2018-07-11 22:44:57
End at: 2018-07-11 22:45:27
Local clock offset: 0.051 ms
Remote clock offset: -1.223 ms

Below is generated by plot.py at 2018-07-12 03:00:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 550.28 Mbit/s
95th percentile per-packet one-way delay: 174.438 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 550.28 Mbit/s
95th percentile per-packet one-way delay: 174.438 ms
Loss rate: 0.59%

Run 2: Report of PCC-Allegro — Data Link

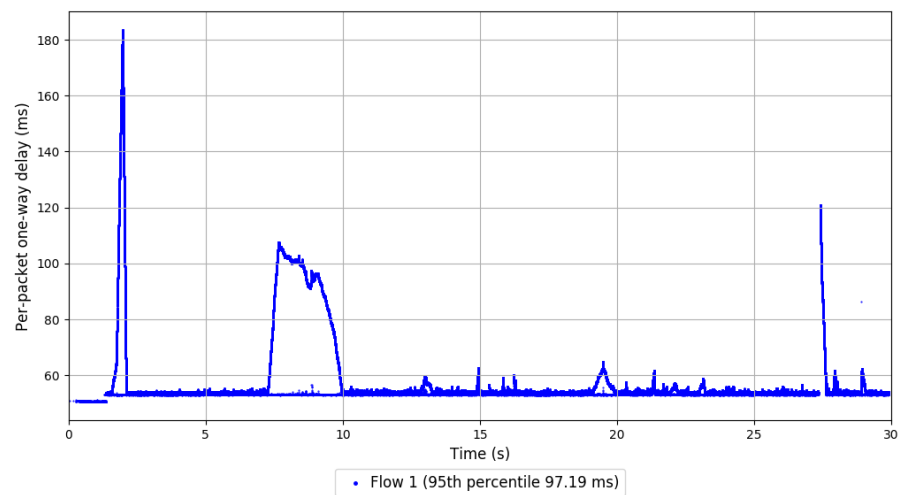
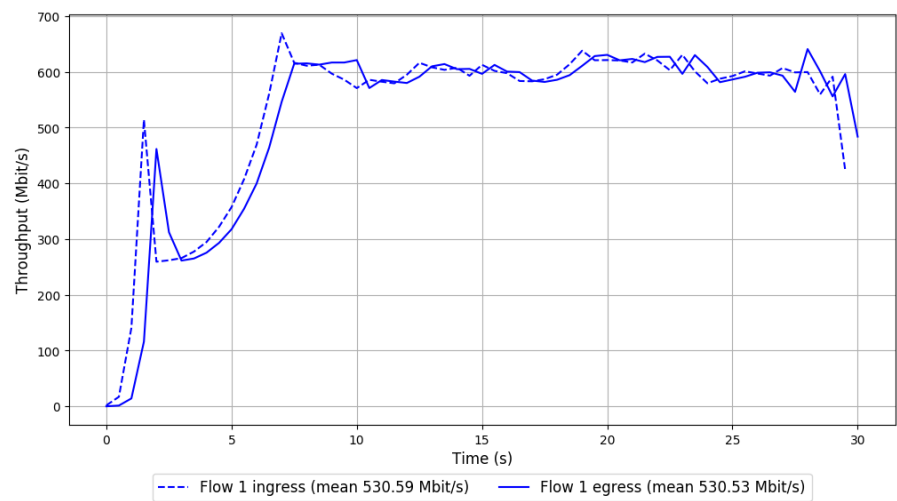


Run 3: Statistics of PCC-Allegro

Start at: 2018-07-11 23:07:11
End at: 2018-07-11 23:07:41
Local clock offset: -0.177 ms
Remote clock offset: -0.245 ms

Below is generated by plot.py at 2018-07-12 03:00:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 530.53 Mbit/s
95th percentile per-packet one-way delay: 97.190 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 530.53 Mbit/s
95th percentile per-packet one-way delay: 97.190 ms
Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-11 23:29:03

End at: 2018-07-11 23:29:33

Local clock offset: 0.031 ms

Remote clock offset: 1.279 ms

Below is generated by plot.py at 2018-07-12 03:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.98 Mbit/s

95th percentile per-packet one-way delay: 78.689 ms

Loss rate: 0.29%

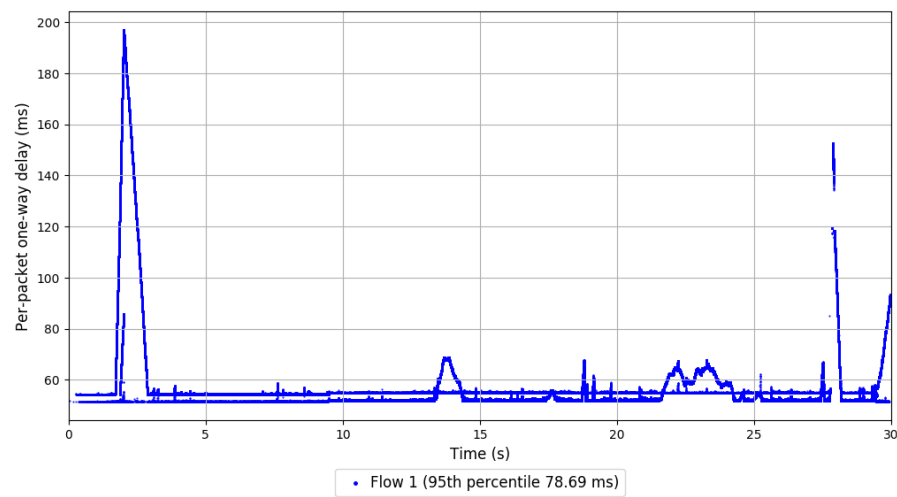
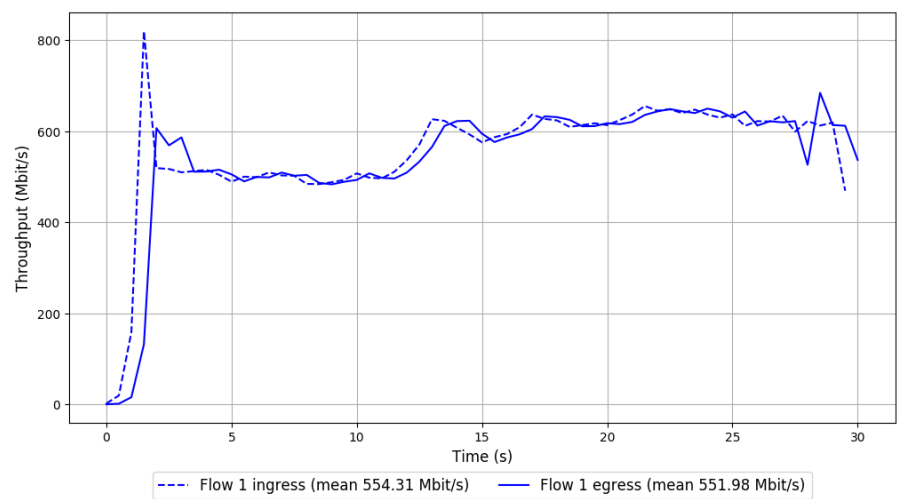
-- Flow 1:

Average throughput: 551.98 Mbit/s

95th percentile per-packet one-way delay: 78.689 ms

Loss rate: 0.29%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-11 23:51:11

End at: 2018-07-11 23:51:41

Local clock offset: -0.102 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-07-12 03:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.24 Mbit/s

95th percentile per-packet one-way delay: 85.394 ms

Loss rate: 0.31%

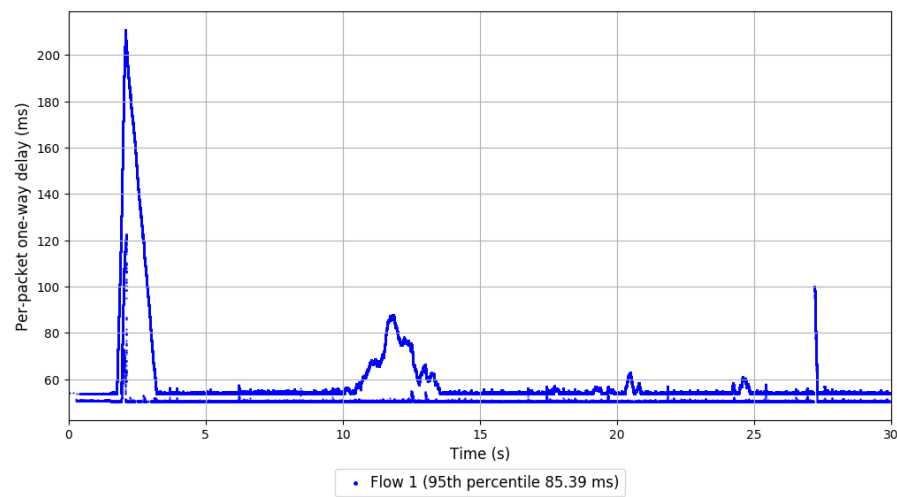
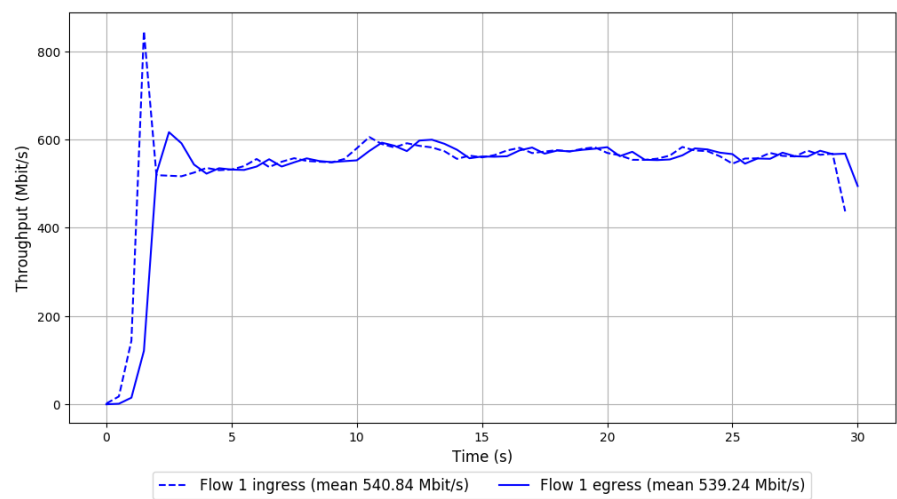
-- Flow 1:

Average throughput: 539.24 Mbit/s

95th percentile per-packet one-way delay: 85.394 ms

Loss rate: 0.31%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-12 00:13:01

End at: 2018-07-12 00:13:31

Local clock offset: 0.12 ms

Remote clock offset: 1.129 ms

Below is generated by plot.py at 2018-07-12 03:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.34 Mbit/s

95th percentile per-packet one-way delay: 200.143 ms

Loss rate: 0.80%

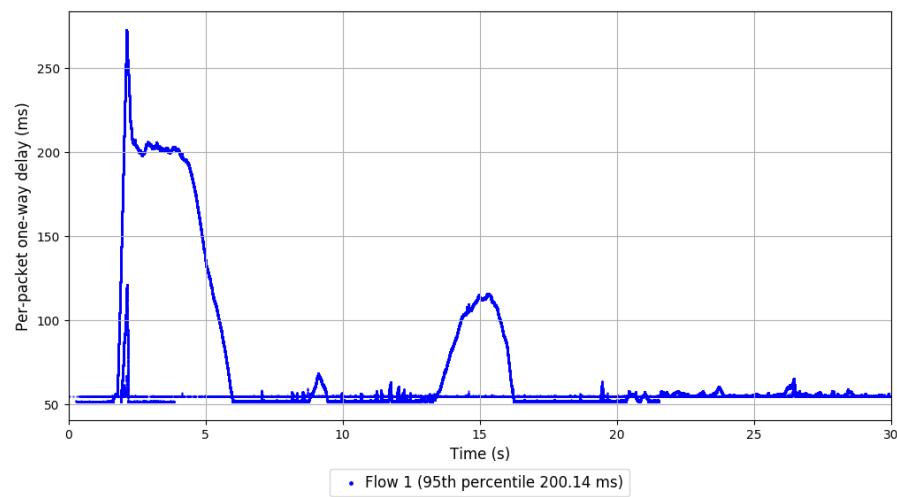
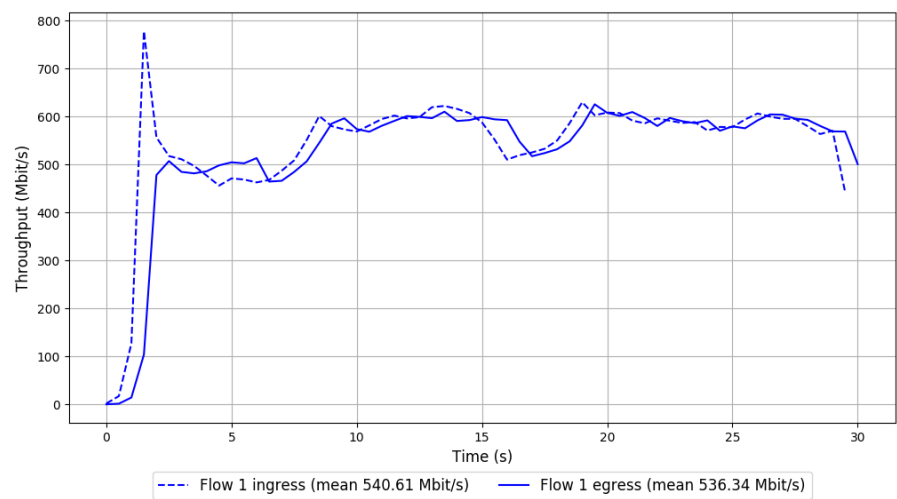
-- Flow 1:

Average throughput: 536.34 Mbit/s

95th percentile per-packet one-way delay: 200.143 ms

Loss rate: 0.80%

Run 6: Report of PCC-Allegro — Data Link

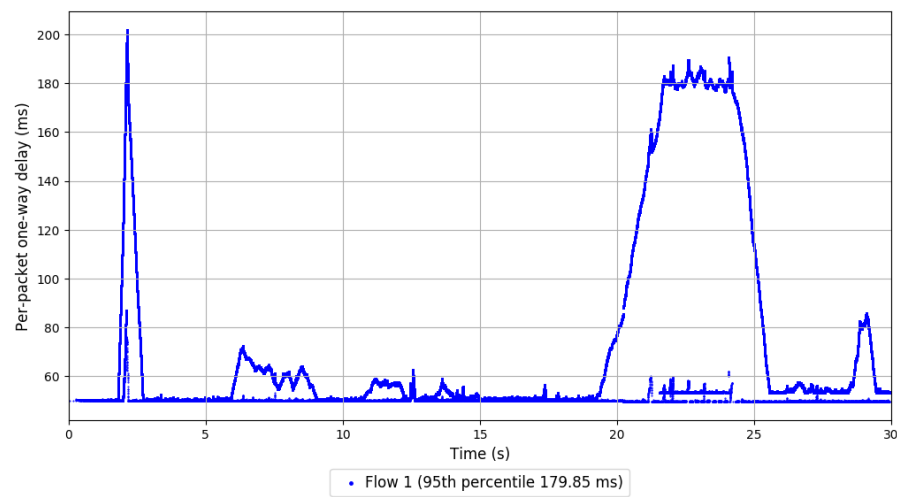
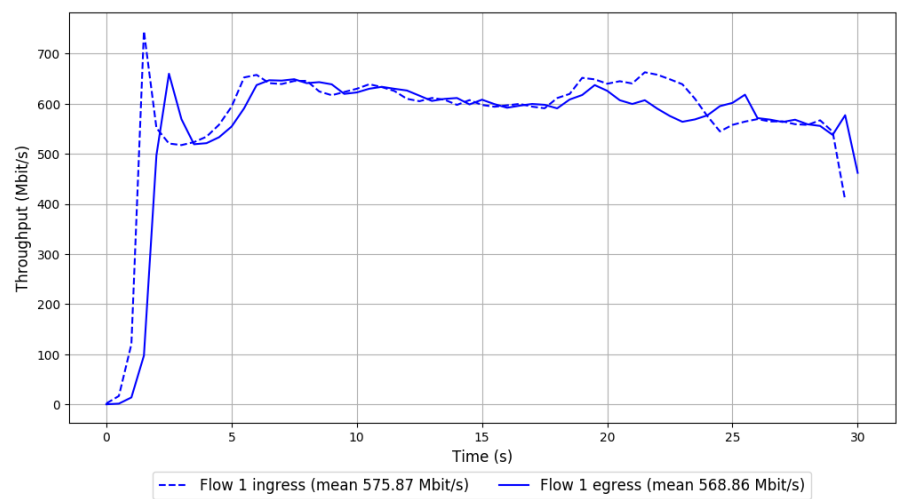


Run 7: Statistics of PCC-Allegro

Start at: 2018-07-12 00:35:12
End at: 2018-07-12 00:35:42
Local clock offset: -0.031 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-07-12 03:04:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 568.86 Mbit/s
95th percentile per-packet one-way delay: 179.852 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 568.86 Mbit/s
95th percentile per-packet one-way delay: 179.852 ms
Loss rate: 1.22%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-12 00:57:07

End at: 2018-07-12 00:57:37

Local clock offset: 0.145 ms

Remote clock offset: 0.172 ms

Below is generated by plot.py at 2018-07-12 03:07:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 483.59 Mbit/s

95th percentile per-packet one-way delay: 211.201 ms

Loss rate: 3.71%

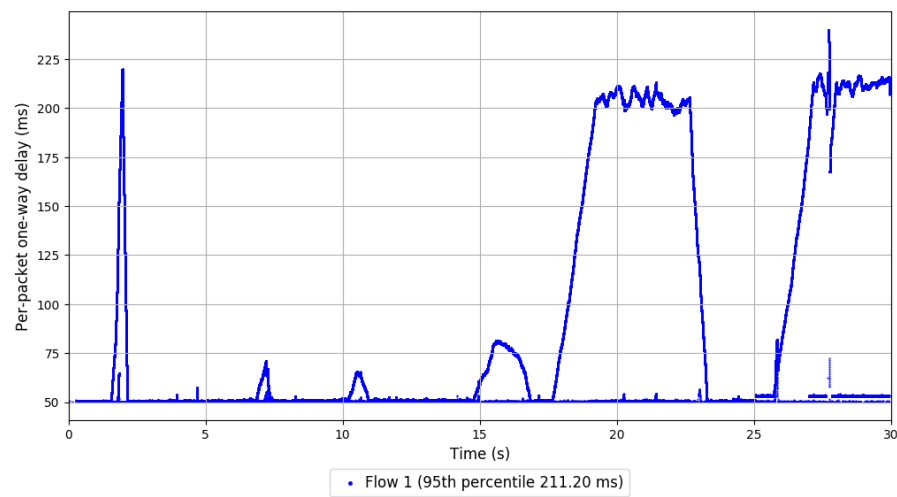
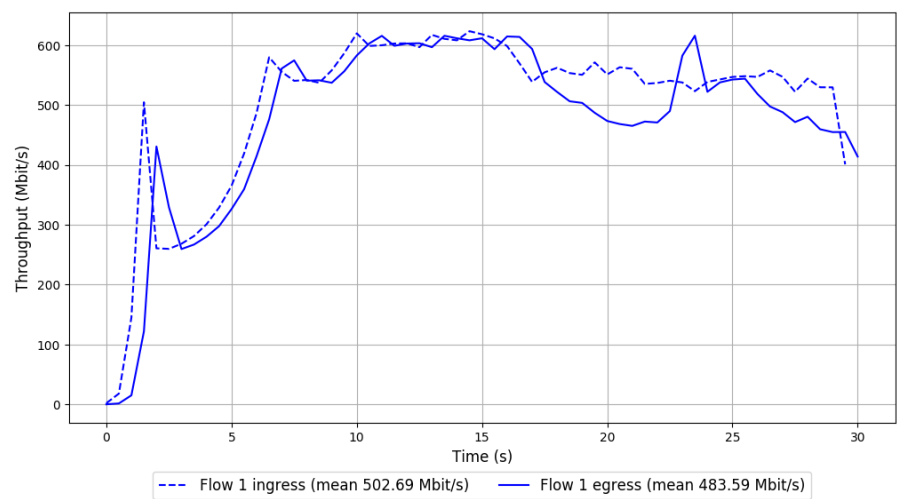
-- Flow 1:

Average throughput: 483.59 Mbit/s

95th percentile per-packet one-way delay: 211.201 ms

Loss rate: 3.71%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-12 01:18:36

End at: 2018-07-12 01:19:07

Local clock offset: -0.09 ms

Remote clock offset: -0.401 ms

Below is generated by plot.py at 2018-07-12 03:09:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.99 Mbit/s

95th percentile per-packet one-way delay: 184.991 ms

Loss rate: 0.95%

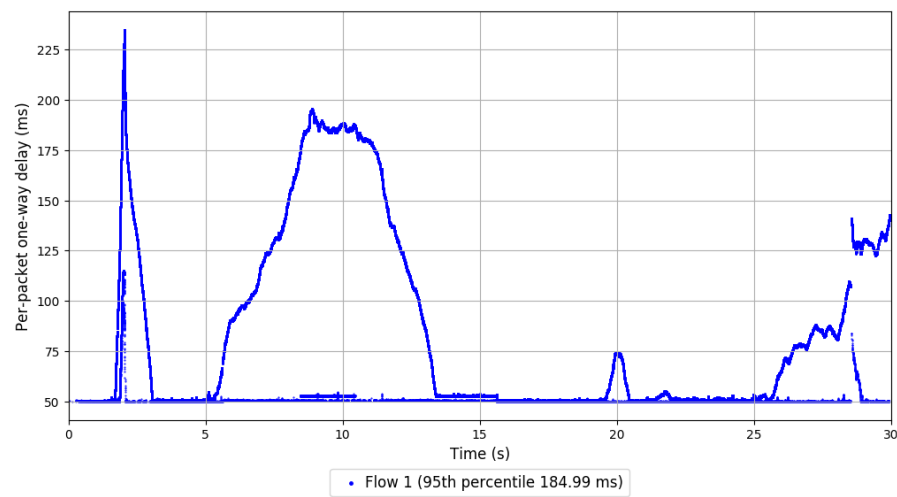
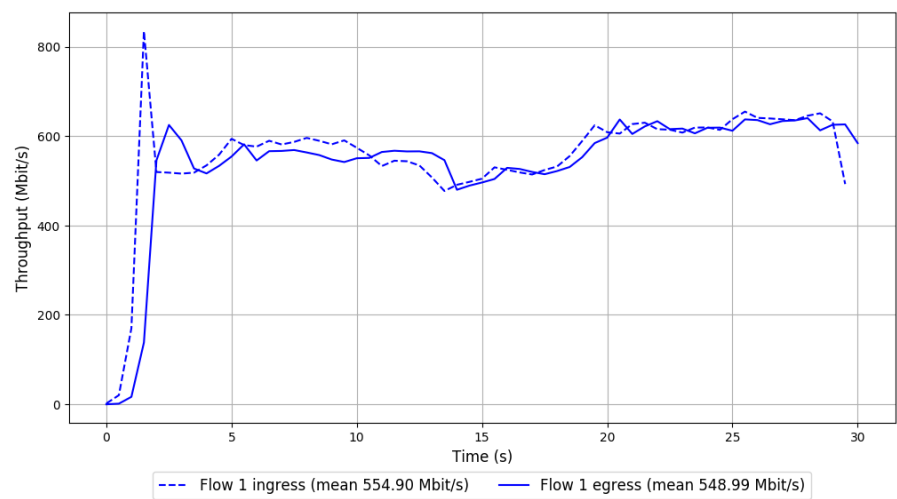
-- Flow 1:

Average throughput: 548.99 Mbit/s

95th percentile per-packet one-way delay: 184.991 ms

Loss rate: 0.95%

Run 9: Report of PCC-Allegro — Data Link

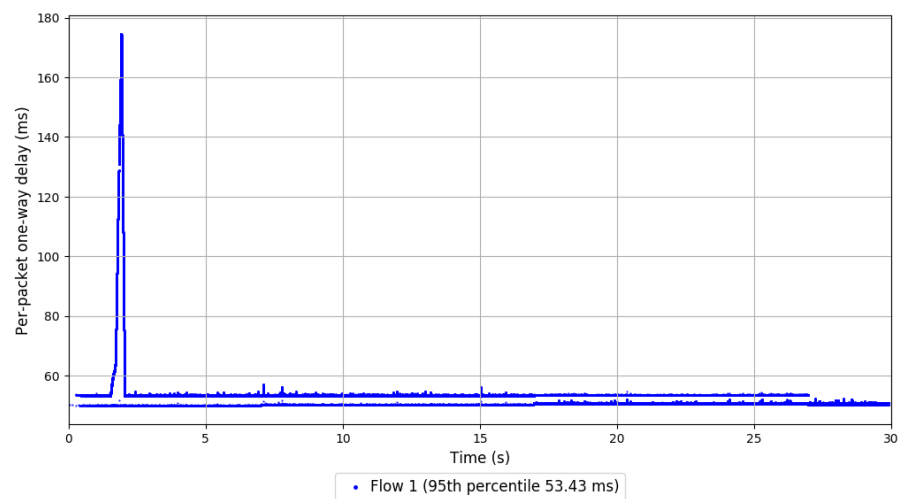
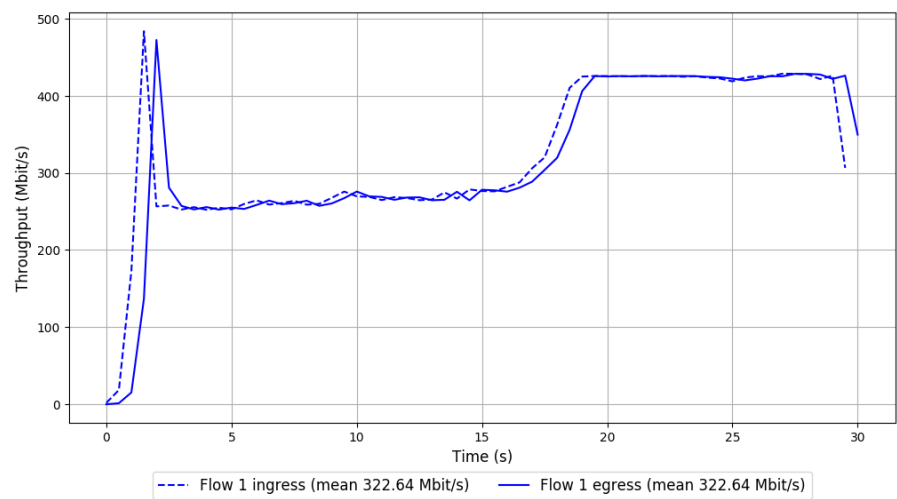


Run 10: Statistics of PCC-Allegro

Start at: 2018-07-12 01:40:35
End at: 2018-07-12 01:41:05
Local clock offset: -0.018 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-07-12 03:09:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 322.64 Mbit/s
95th percentile per-packet one-way delay: 53.426 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 322.64 Mbit/s
95th percentile per-packet one-way delay: 53.426 ms
Loss rate: 0.00%

Run 10: Report of PCC-Allegro — Data Link

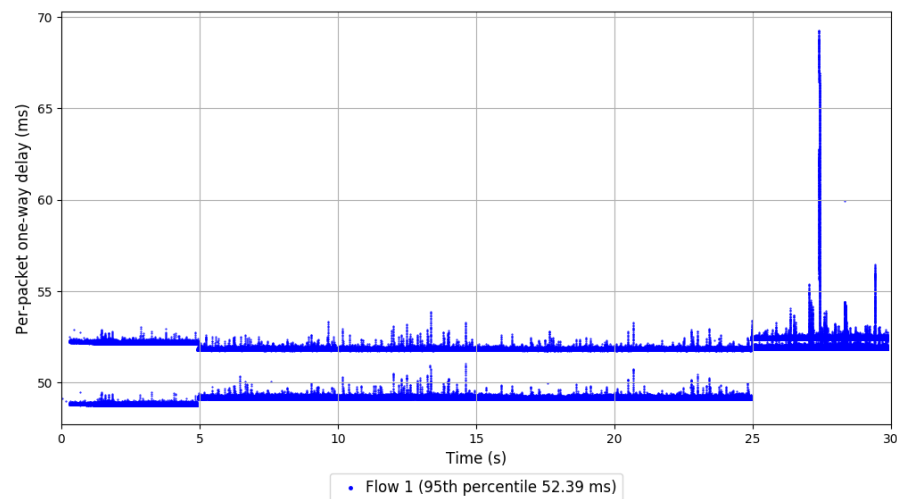
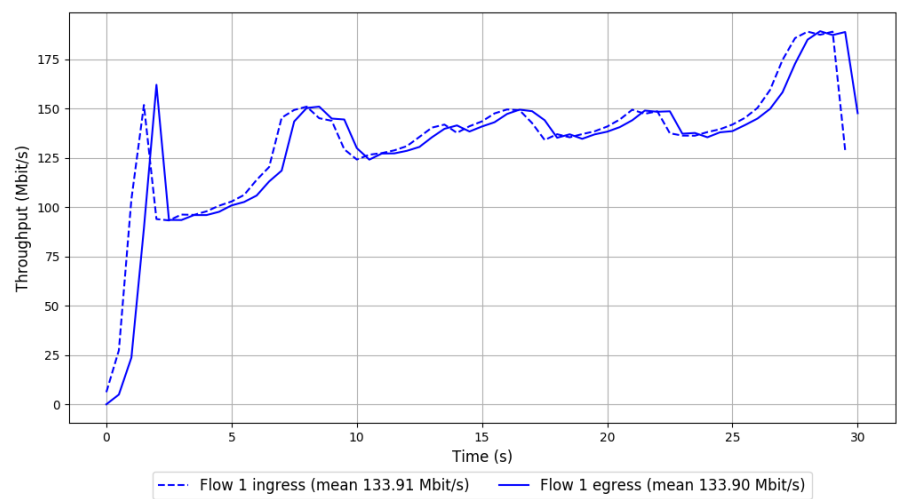


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-11 22:16:17
End at: 2018-07-11 22:16:47
Local clock offset: -0.061 ms
Remote clock offset: -1.365 ms

# Below is generated by plot.py at 2018-07-12 03:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.90 Mbit/s
95th percentile per-packet one-way delay: 52.392 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 133.90 Mbit/s
95th percentile per-packet one-way delay: 52.392 ms
Loss rate: 0.01%
```


Run 1: Report of PCC-Expr — Data Link

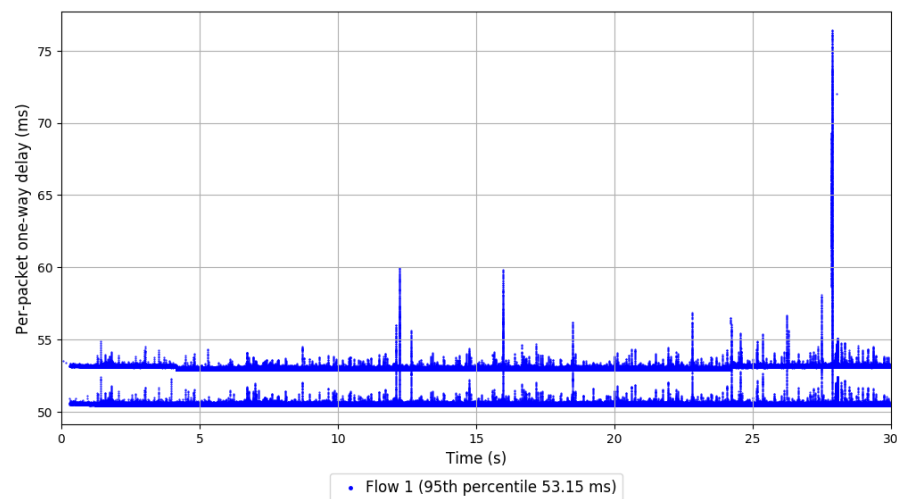
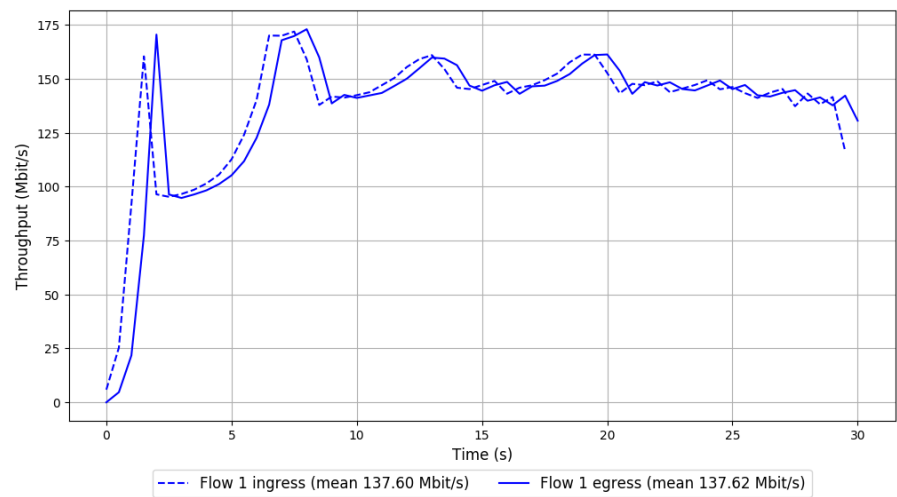


Run 2: Statistics of PCC-Expr

Start at: 2018-07-11 22:37:58
End at: 2018-07-11 22:38:28
Local clock offset: -0.142 ms
Remote clock offset: -0.036 ms

Below is generated by plot.py at 2018-07-12 03:09:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 137.62 Mbit/s
95th percentile per-packet one-way delay: 53.151 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.62 Mbit/s
95th percentile per-packet one-way delay: 53.151 ms
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link

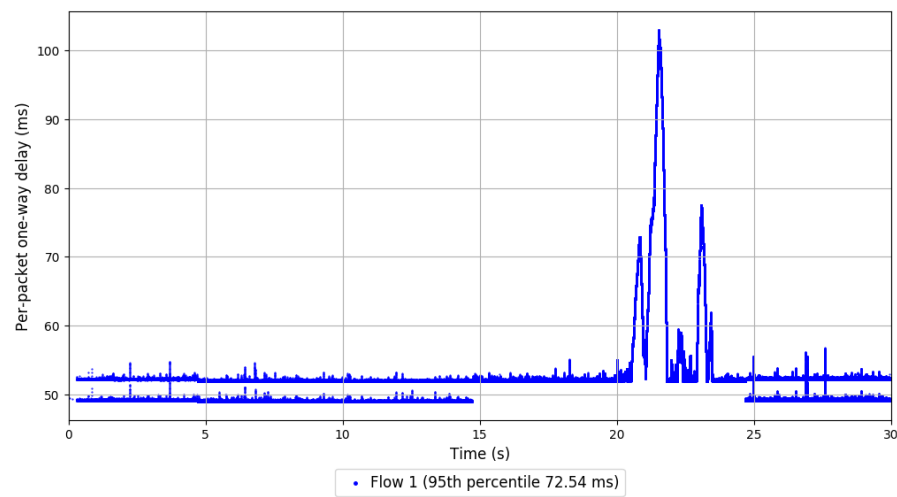
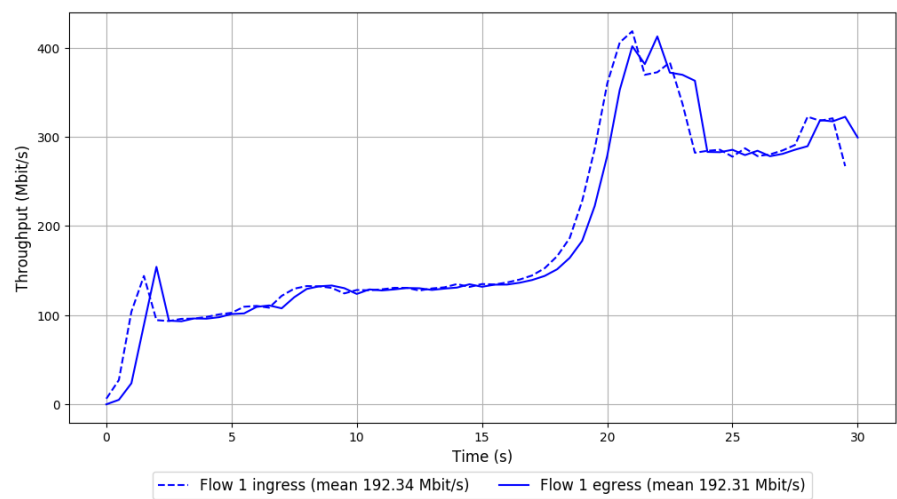


Run 3: Statistics of PCC-Expr

Start at: 2018-07-11 23:00:07
End at: 2018-07-11 23:00:37
Local clock offset: 0.095 ms
Remote clock offset: -1.336 ms

Below is generated by plot.py at 2018-07-12 03:09:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 192.31 Mbit/s
95th percentile per-packet one-way delay: 72.538 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 192.31 Mbit/s
95th percentile per-packet one-way delay: 72.538 ms
Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link

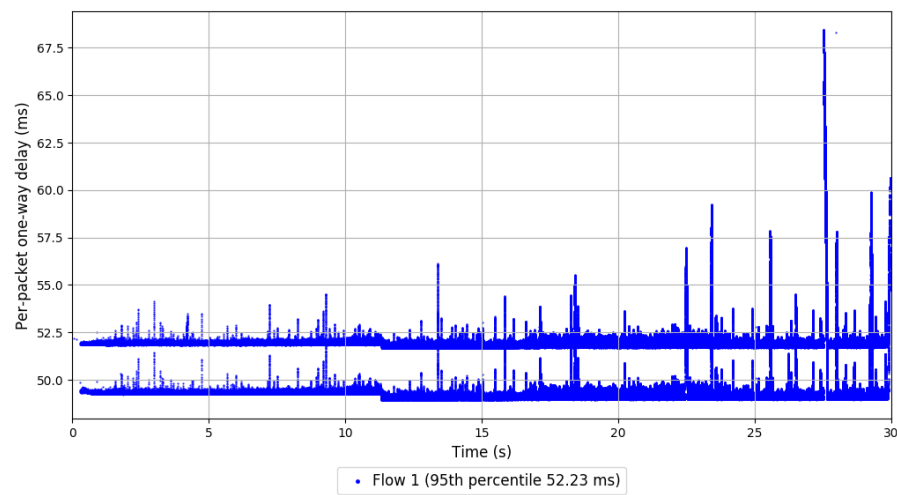
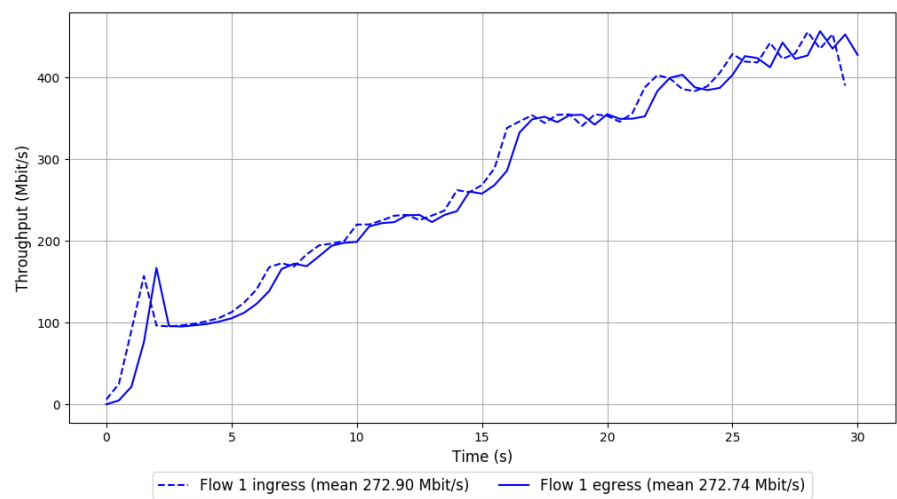


Run 4: Statistics of PCC-Expr

Start at: 2018-07-11 23:21:51
End at: 2018-07-11 23:22:21
Local clock offset: -0.076 ms
Remote clock offset: -1.282 ms

Below is generated by plot.py at 2018-07-12 03:09:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 272.74 Mbit/s
95th percentile per-packet one-way delay: 52.228 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 272.74 Mbit/s
95th percentile per-packet one-way delay: 52.228 ms
Loss rate: 0.07%

Run 4: Report of PCC-Expr — Data Link

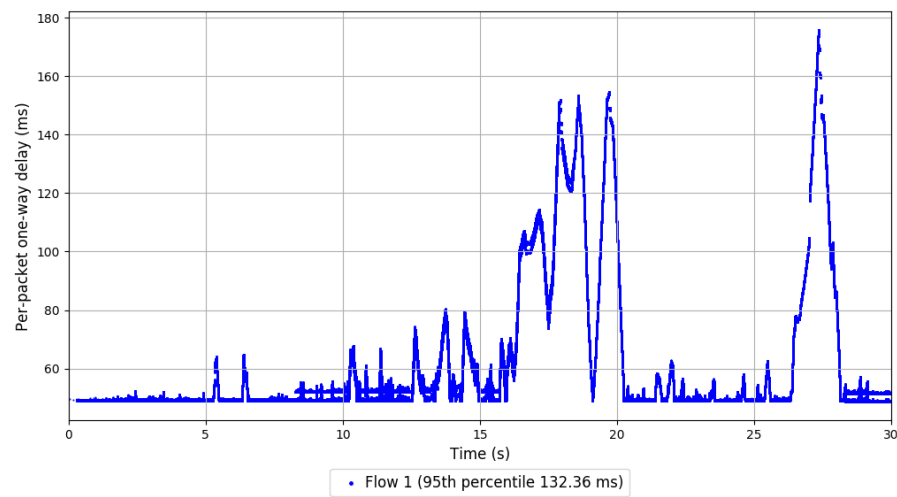
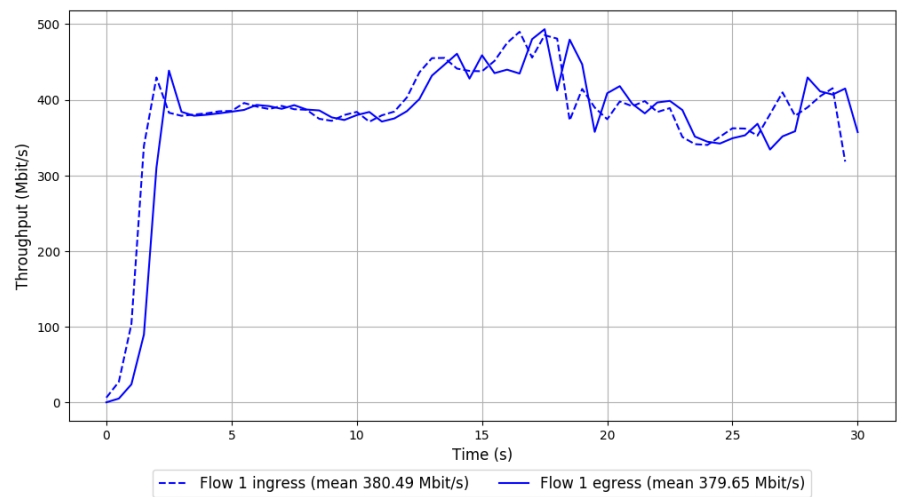


Run 5: Statistics of PCC-Expr

Start at: 2018-07-11 23:43:54
End at: 2018-07-11 23:44:24
Local clock offset: -0.098 ms
Remote clock offset: -1.551 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 379.65 Mbit/s
95th percentile per-packet one-way delay: 132.358 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 379.65 Mbit/s
95th percentile per-packet one-way delay: 132.358 ms
Loss rate: 0.22%

Run 5: Report of PCC-Expr — Data Link

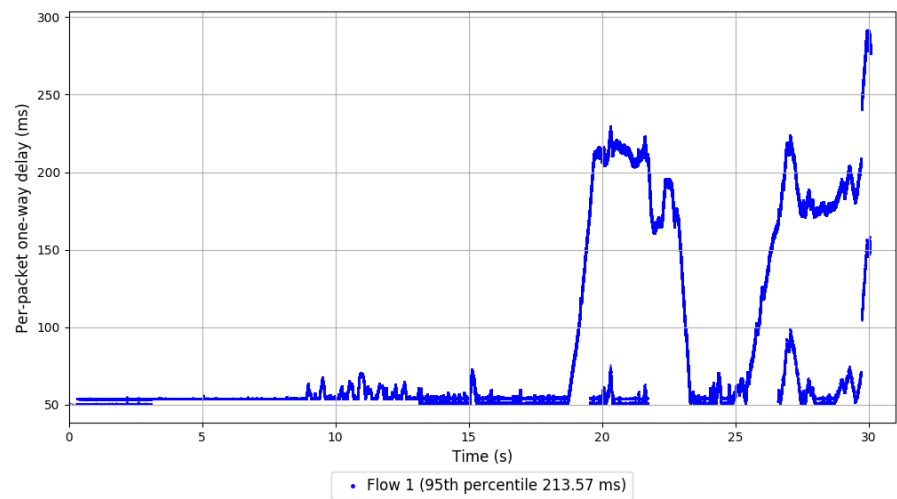
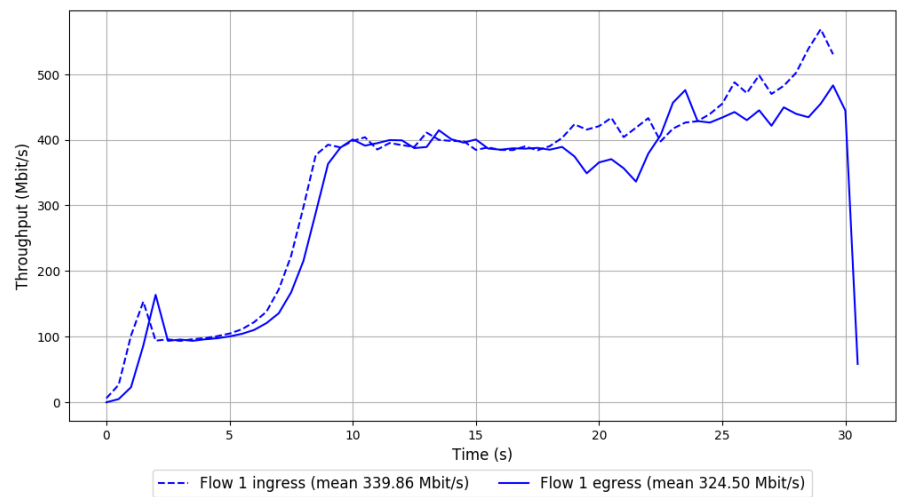


Run 6: Statistics of PCC-Expr

Start at: 2018-07-12 00:05:49
End at: 2018-07-12 00:06:19
Local clock offset: -0.119 ms
Remote clock offset: -0.239 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 324.50 Mbit/s
95th percentile per-packet one-way delay: 213.575 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 324.50 Mbit/s
95th percentile per-packet one-way delay: 213.575 ms
Loss rate: 4.14%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-12 00:27:54

End at: 2018-07-12 00:28:24

Local clock offset: -0.01 ms

Remote clock offset: 1.091 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.58 Mbit/s

95th percentile per-packet one-way delay: 61.103 ms

Loss rate: 0.01%

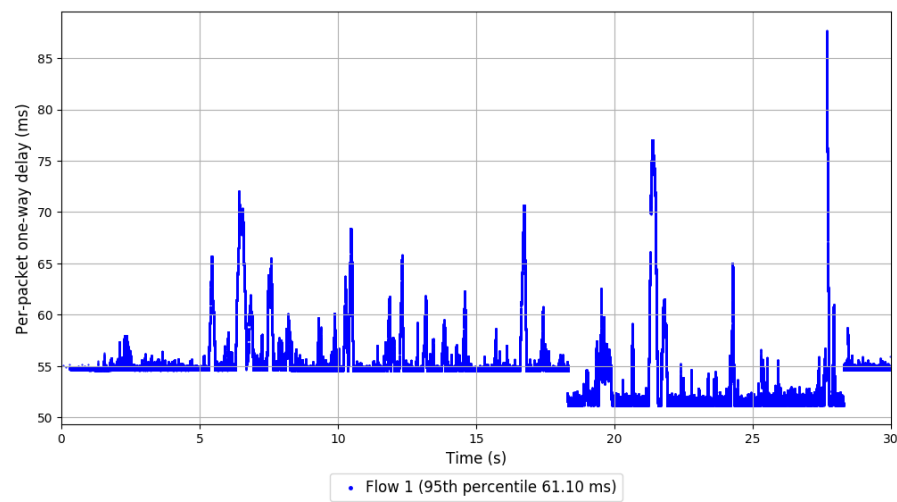
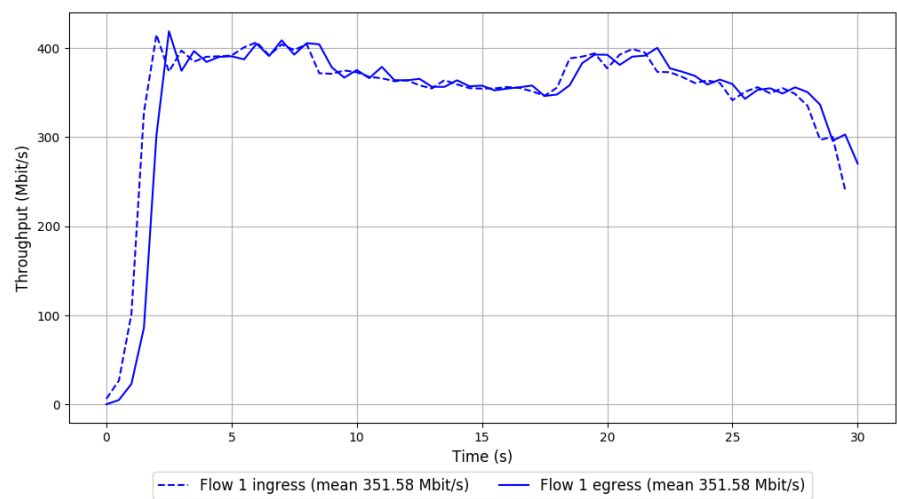
-- Flow 1:

Average throughput: 351.58 Mbit/s

95th percentile per-packet one-way delay: 61.103 ms

Loss rate: 0.01%

Run 7: Report of PCC-Expr — Data Link

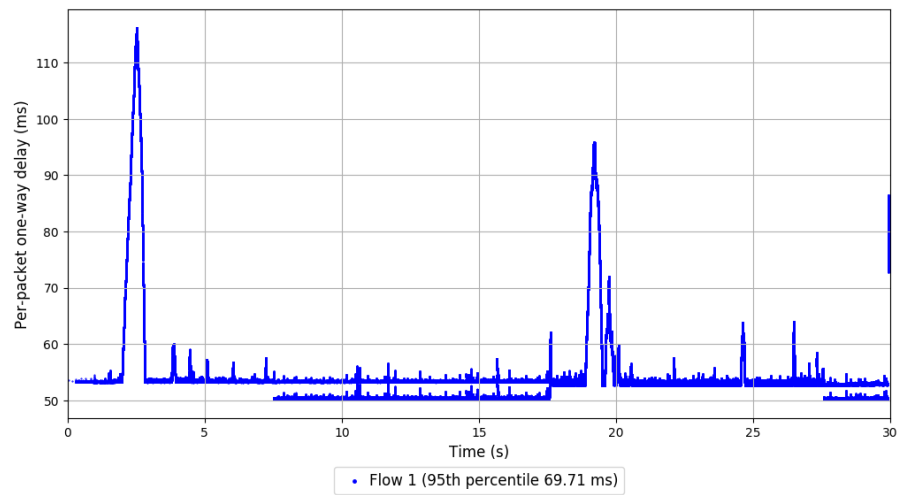
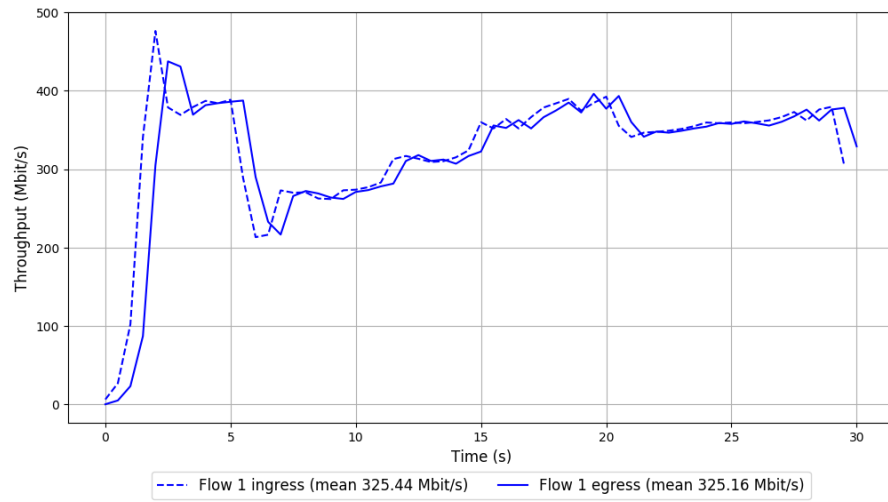


Run 8: Statistics of PCC-Expr

Start at: 2018-07-12 00:49:55
End at: 2018-07-12 00:50:25
Local clock offset: -0.051 ms
Remote clock offset: -0.297 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.16 Mbit/s
95th percentile per-packet one-way delay: 69.706 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 325.16 Mbit/s
95th percentile per-packet one-way delay: 69.706 ms
Loss rate: 0.09%

Run 8: Report of PCC-Expr — Data Link

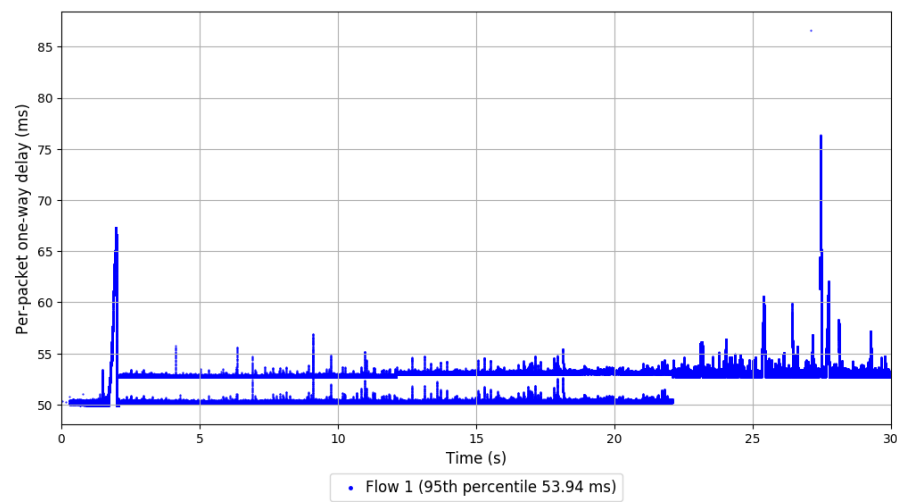
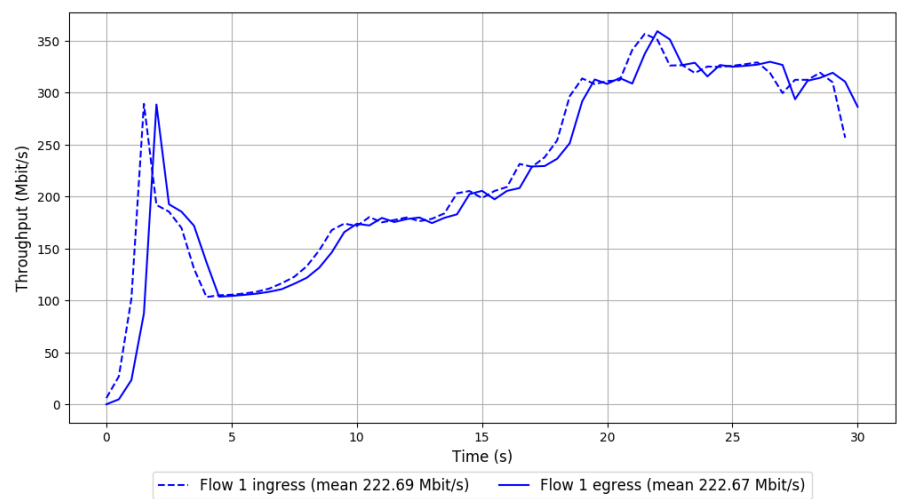


Run 9: Statistics of PCC-Expr

Start at: 2018-07-12 01:11:30
End at: 2018-07-12 01:12:00
Local clock offset: 0.112 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.67 Mbit/s
95th percentile per-packet one-way delay: 53.936 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 222.67 Mbit/s
95th percentile per-packet one-way delay: 53.936 ms
Loss rate: 0.01%

Run 9: Report of PCC-Expr — Data Link

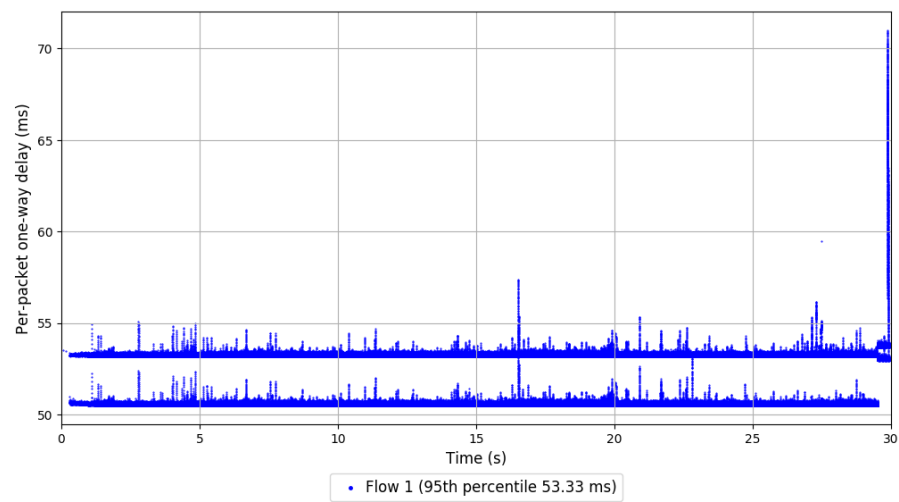
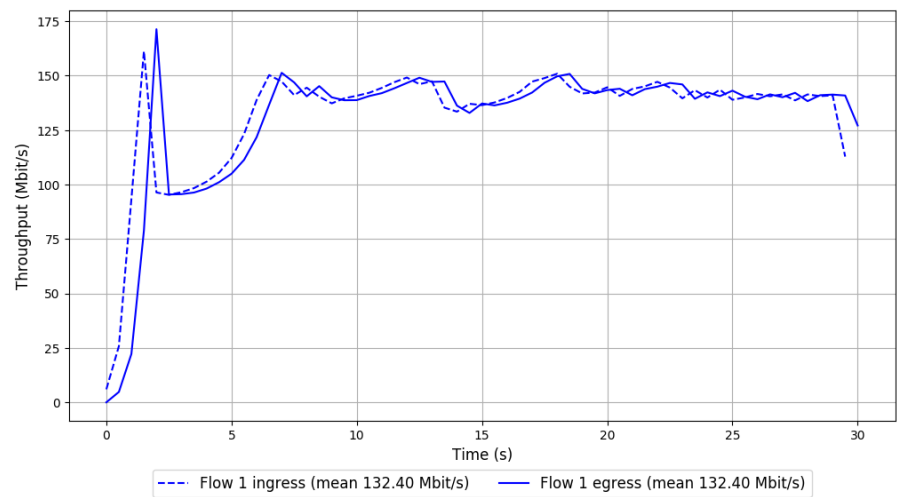


Run 10: Statistics of PCC-Expr

Start at: 2018-07-12 01:33:33
End at: 2018-07-12 01:34:03
Local clock offset: -0.239 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 132.40 Mbit/s
95th percentile per-packet one-way delay: 53.325 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.40 Mbit/s
95th percentile per-packet one-way delay: 53.325 ms
Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

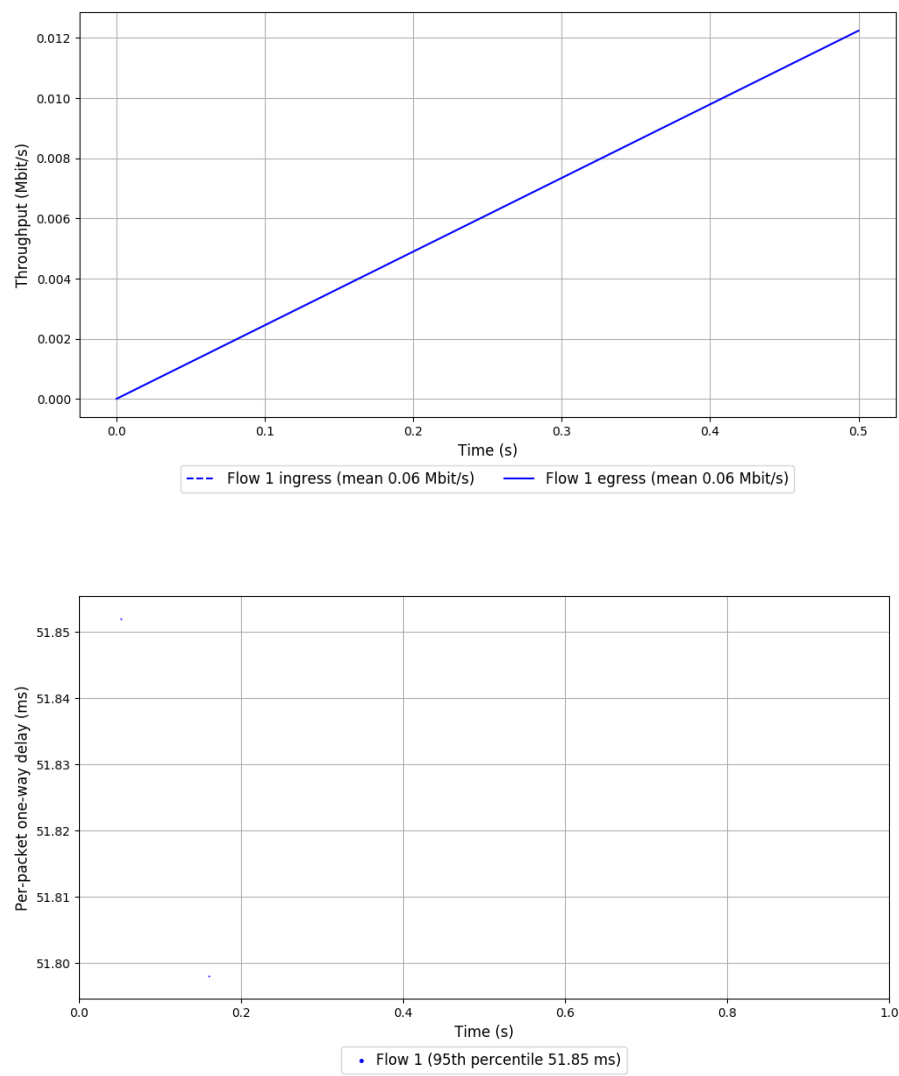
Start at: 2018-07-11 22:13:47

End at: 2018-07-11 22:14:17

Local clock offset: -0.104 ms

Remote clock offset: -1.463 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-11 22:35:25

End at: 2018-07-11 22:35:55

Local clock offset: -0.197 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.00 Mbit/s

95th percentile per-packet one-way delay: 50.733 ms

Loss rate: 0.00%

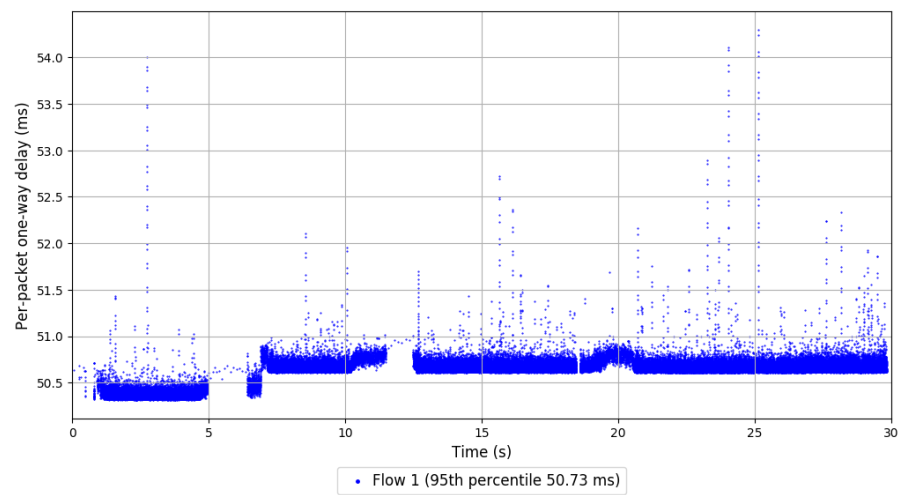
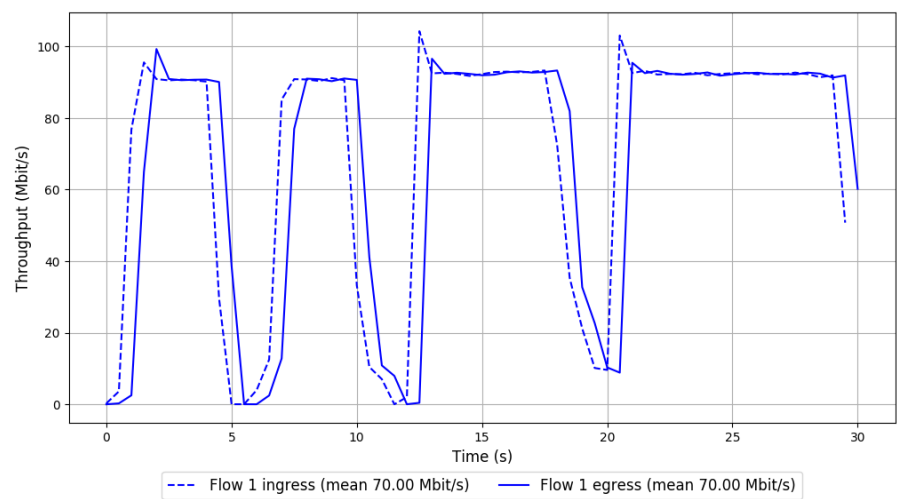
-- Flow 1:

Average throughput: 70.00 Mbit/s

95th percentile per-packet one-way delay: 50.733 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-11 22:57:34

End at: 2018-07-11 22:58:04

Local clock offset: 0.043 ms

Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 0.01%

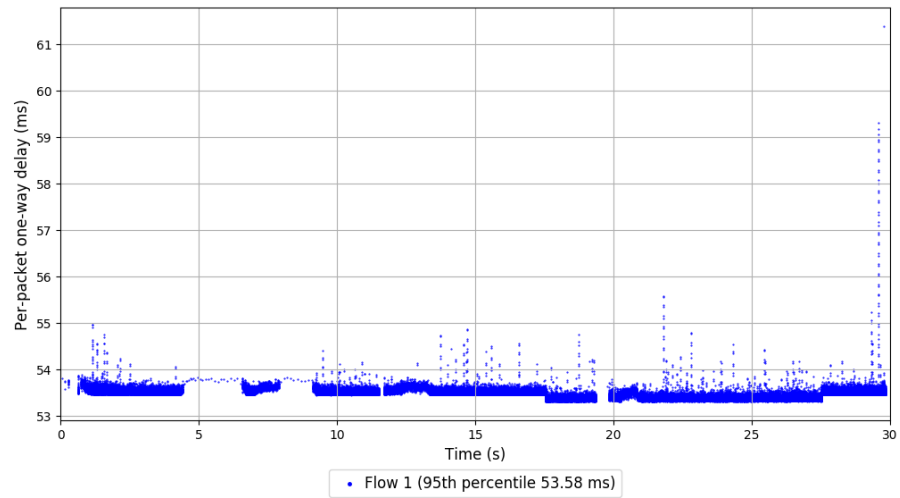
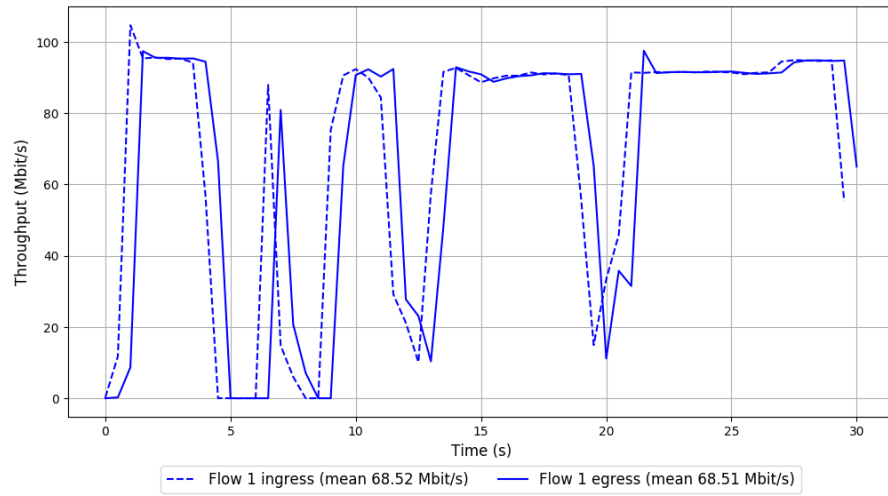
-- Flow 1:

Average throughput: 68.51 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-11 23:19:22

End at: 2018-07-11 23:19:52

Local clock offset: -0.158 ms

Remote clock offset: 1.203 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 54.920 ms

Loss rate: 0.00%

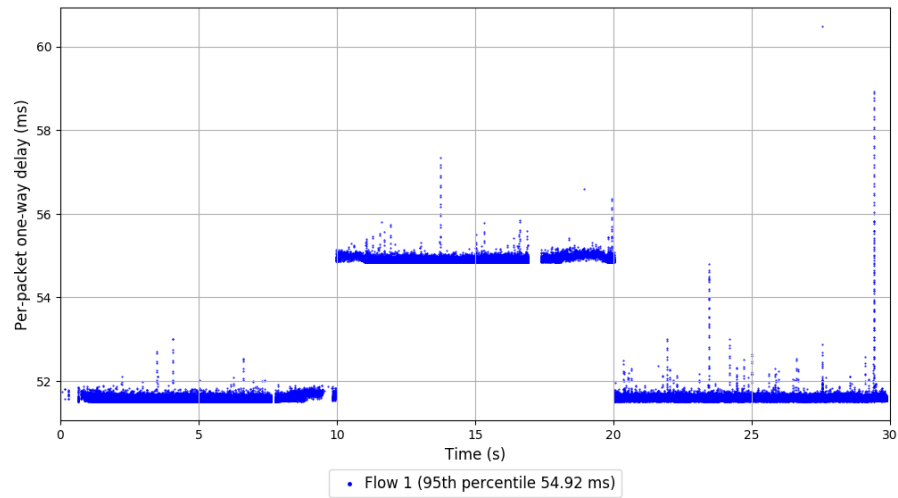
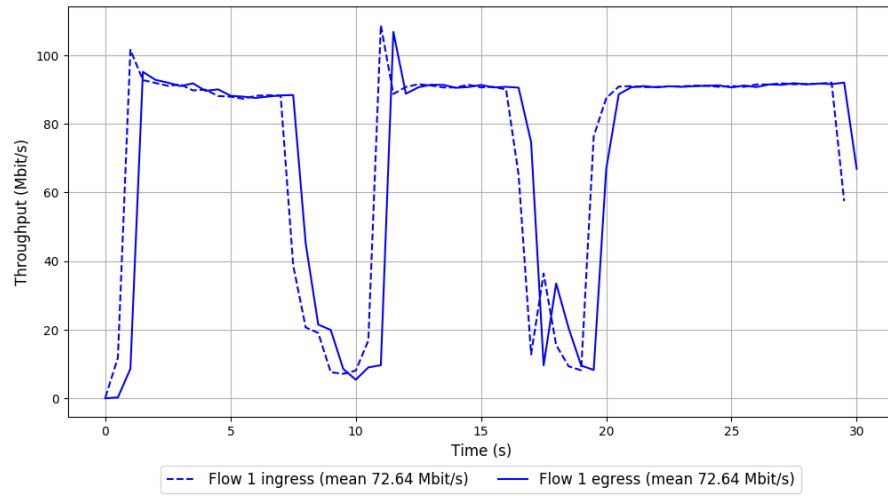
-- Flow 1:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 54.920 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-11 23:41:30

End at: 2018-07-11 23:42:00

Local clock offset: -0.372 ms

Remote clock offset: 0.174 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 54.184 ms

Loss rate: 0.01%

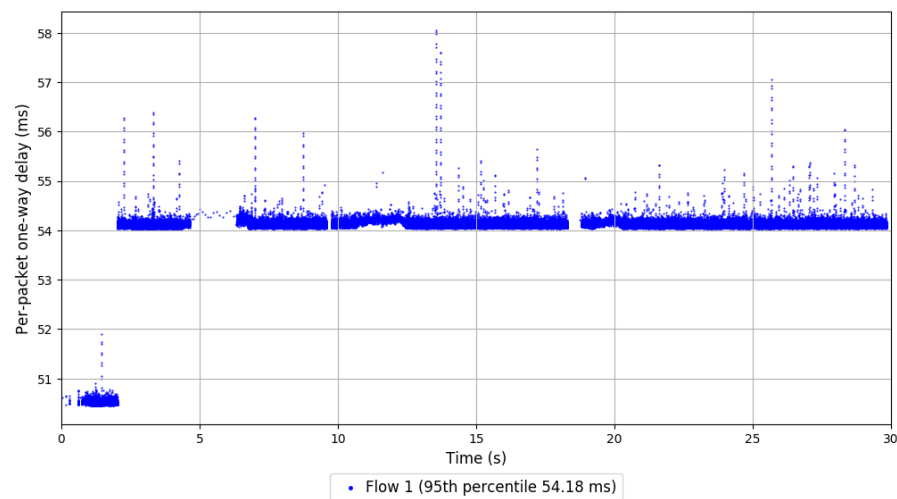
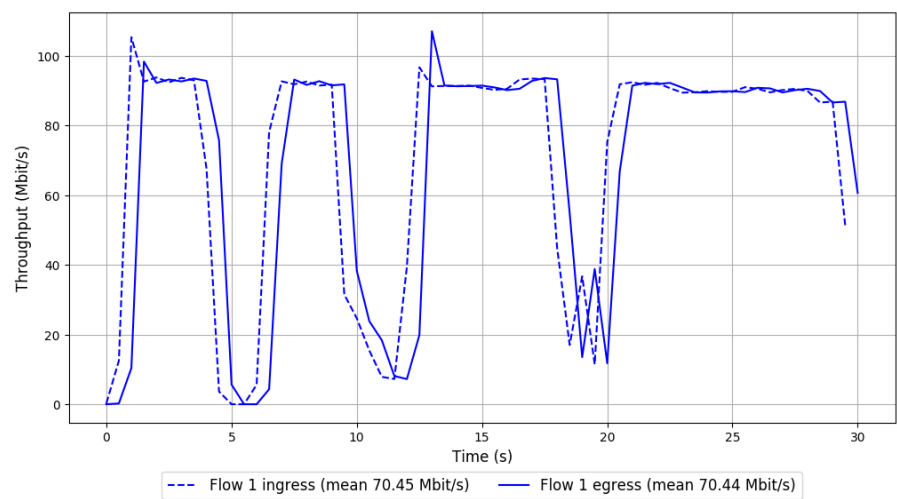
-- Flow 1:

Average throughput: 70.44 Mbit/s

95th percentile per-packet one-way delay: 54.184 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

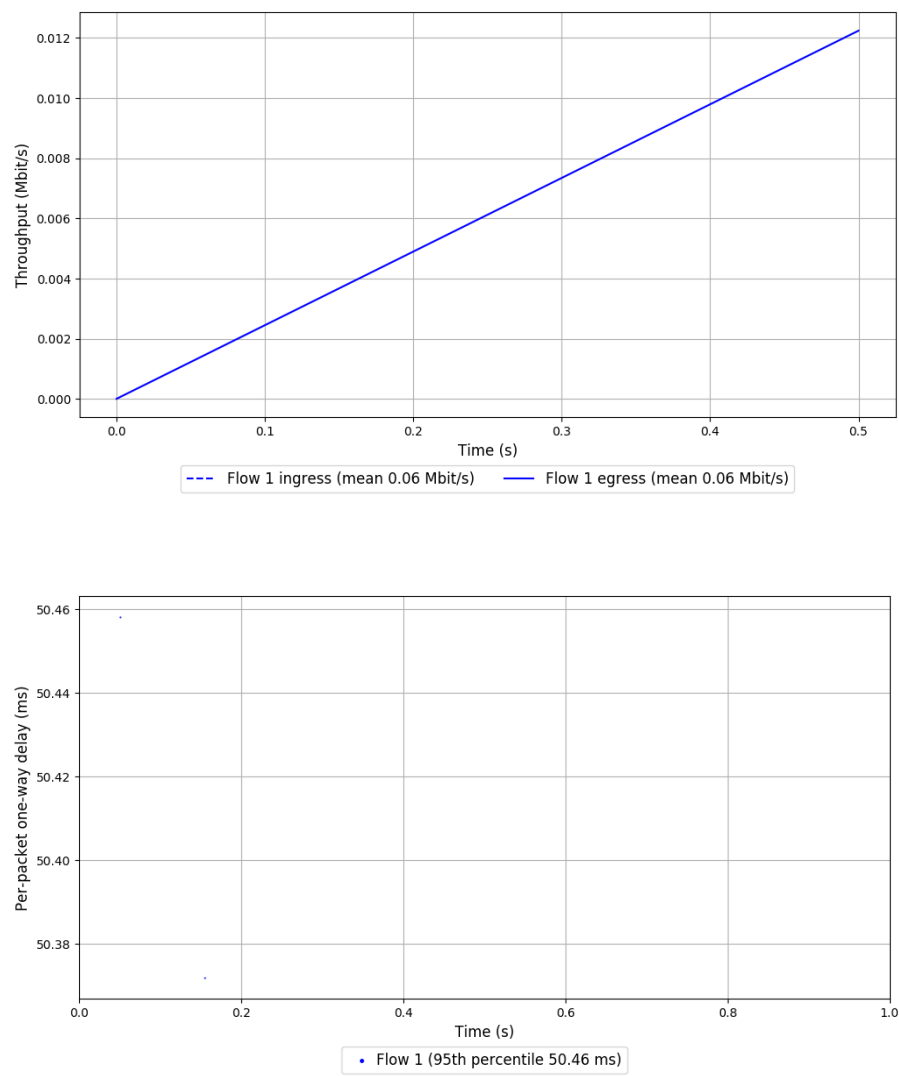
Start at: 2018-07-12 00:03:32

End at: 2018-07-12 00:04:02

Local clock offset: -0.081 ms

Remote clock offset: -0.097 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-12 00:25:28

End at: 2018-07-12 00:25:58

Local clock offset: -0.041 ms

Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.01%

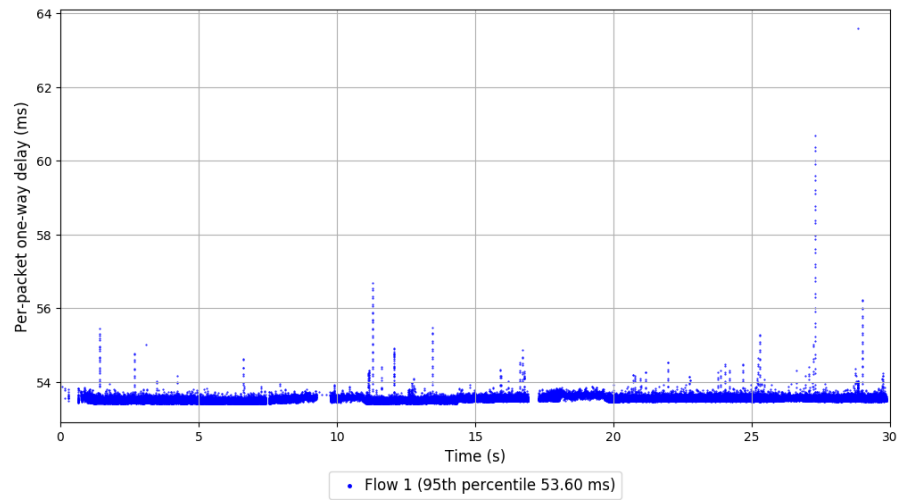
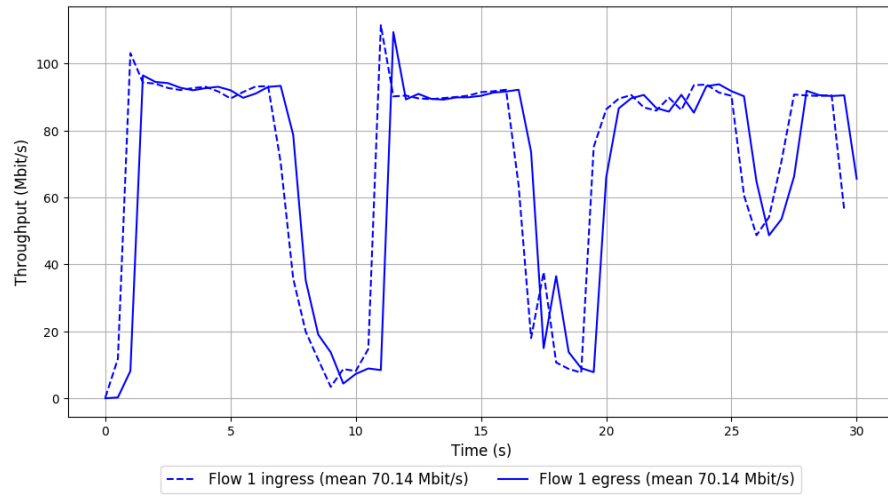
-- Flow 1:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-12 00:47:28

End at: 2018-07-12 00:47:58

Local clock offset: 0.106 ms

Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 49.902 ms

Loss rate: 0.00%

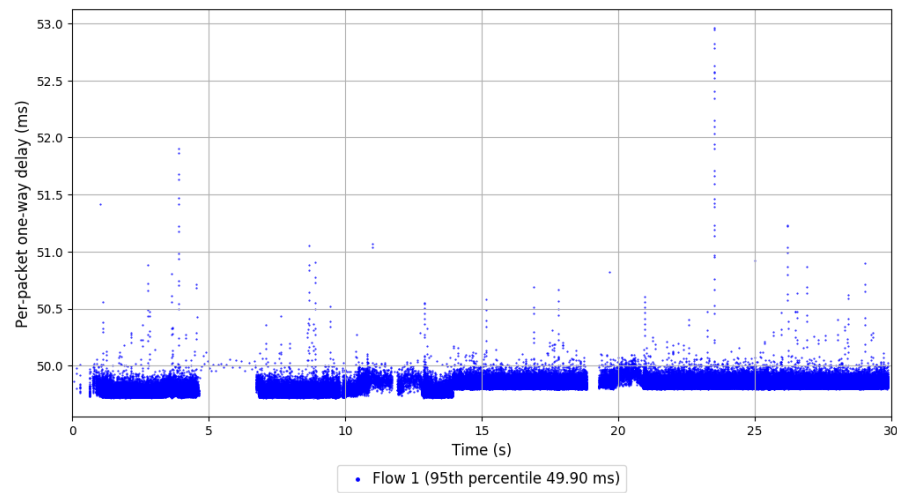
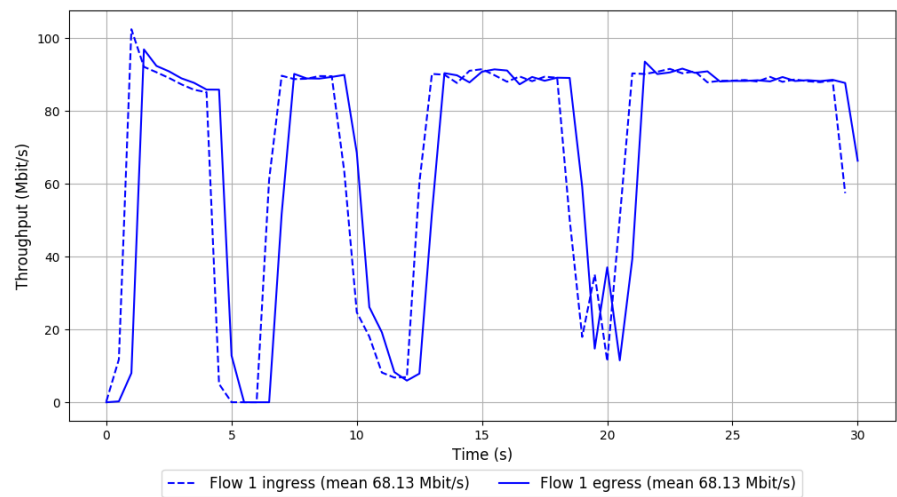
-- Flow 1:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 49.902 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-12 01:09:11

End at: 2018-07-12 01:09:41

Local clock offset: -0.162 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.05 Mbit/s

95th percentile per-packet one-way delay: 54.789 ms

Loss rate: 0.01%

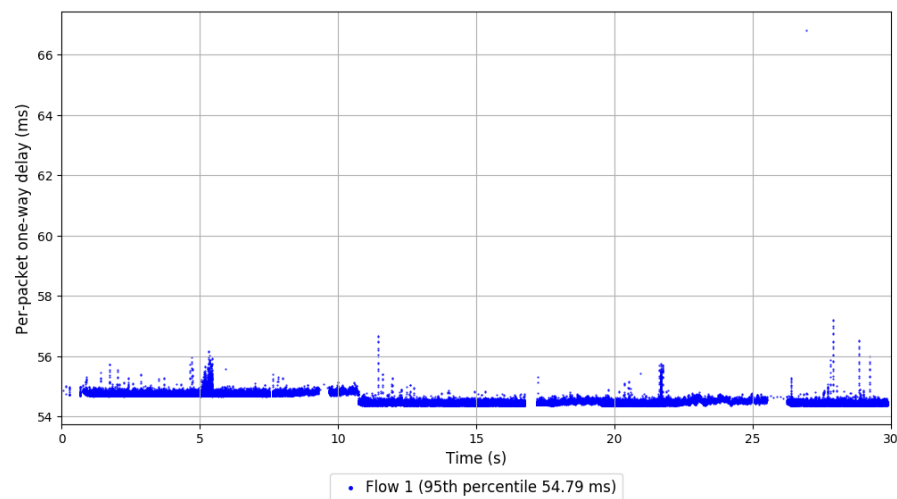
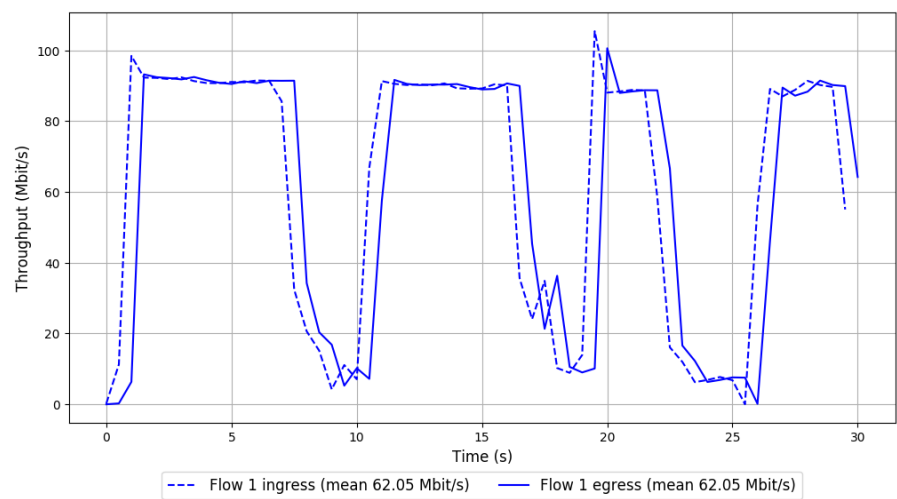
-- Flow 1:

Average throughput: 62.05 Mbit/s

95th percentile per-packet one-way delay: 54.789 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

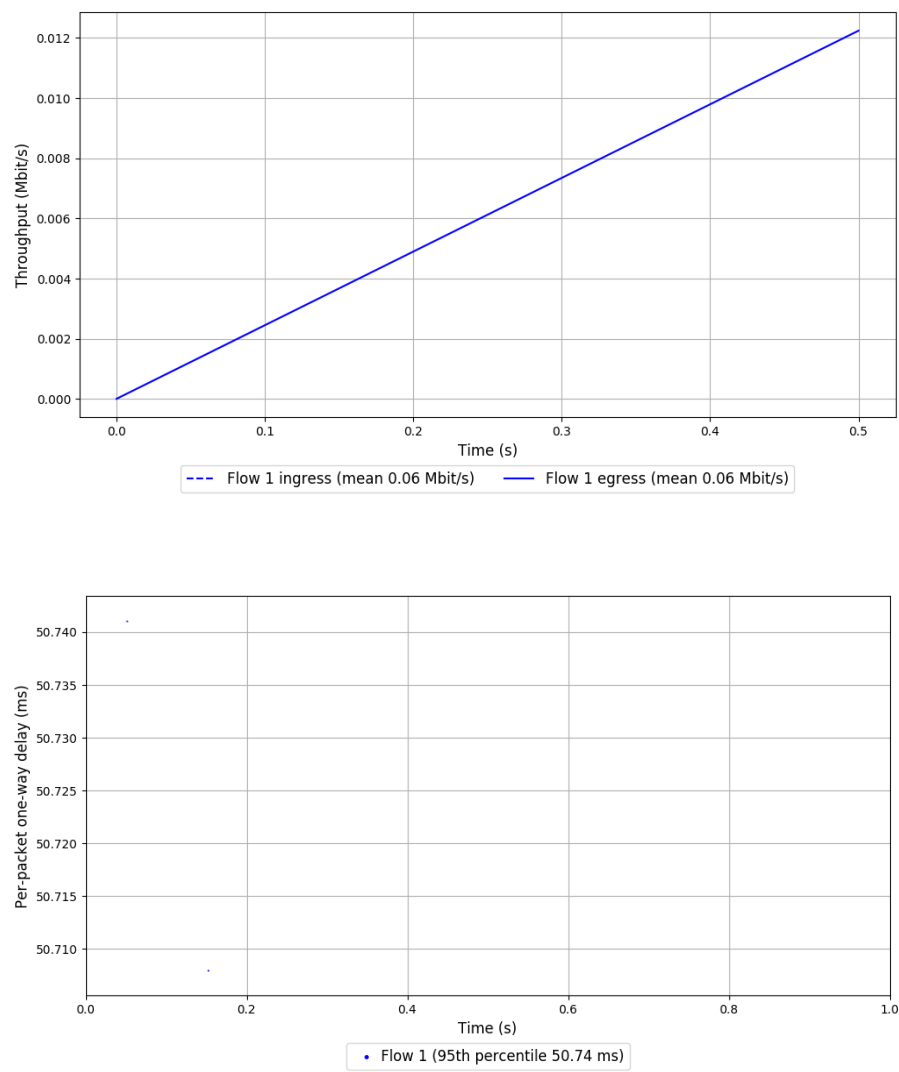
Start at: 2018-07-12 01:31:06

End at: 2018-07-12 01:31:36

Local clock offset: 0.001 ms

Remote clock offset: 0.071 ms

Run 10: Report of QUIC Cubic — Data Link

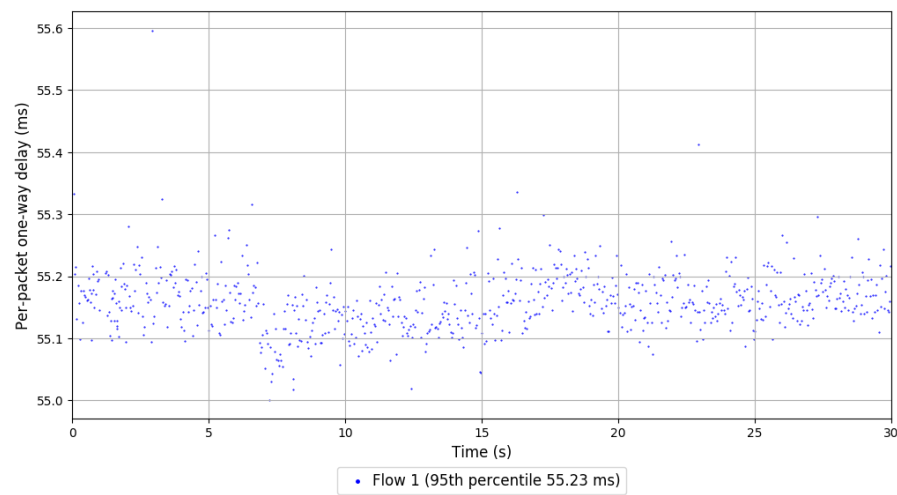
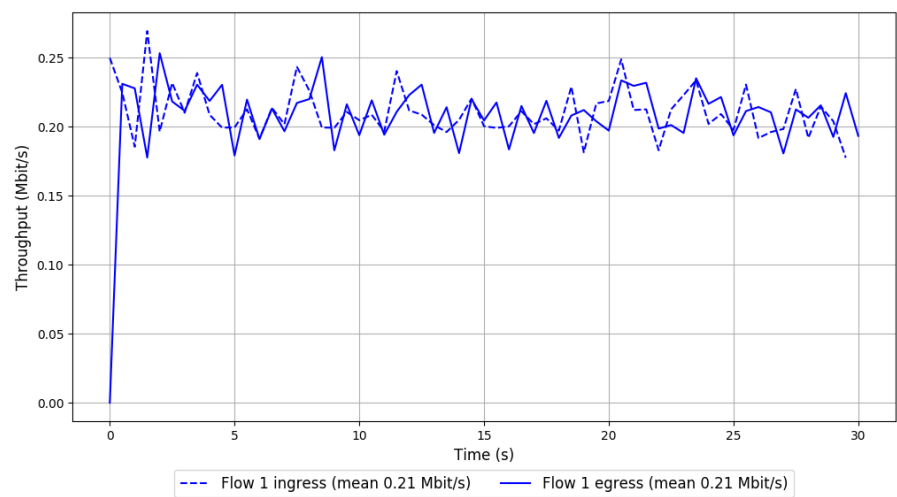


```
Run 1: Statistics of SCReAM

Start at: 2018-07-11 22:24:45
End at: 2018-07-11 22:25:15
Local clock offset: -0.074 ms
Remote clock offset: 1.226 ms

# Below is generated by plot.py at 2018-07-12 03:17:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 55.233 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link



Run 2: Statistics of SReAM

Start at: 2018-07-11 22:46:22

End at: 2018-07-11 22:46:52

Local clock offset: -0.061 ms

Remote clock offset: 1.284 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.686 ms

Loss rate: 0.00%

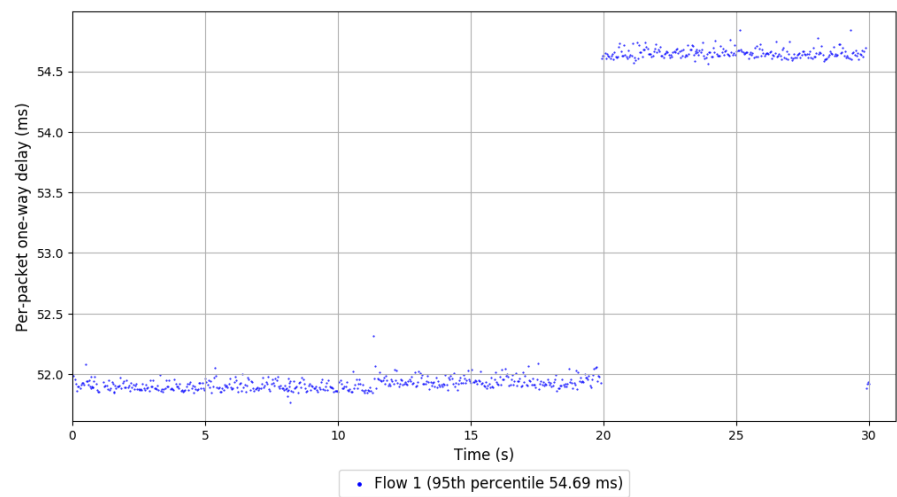
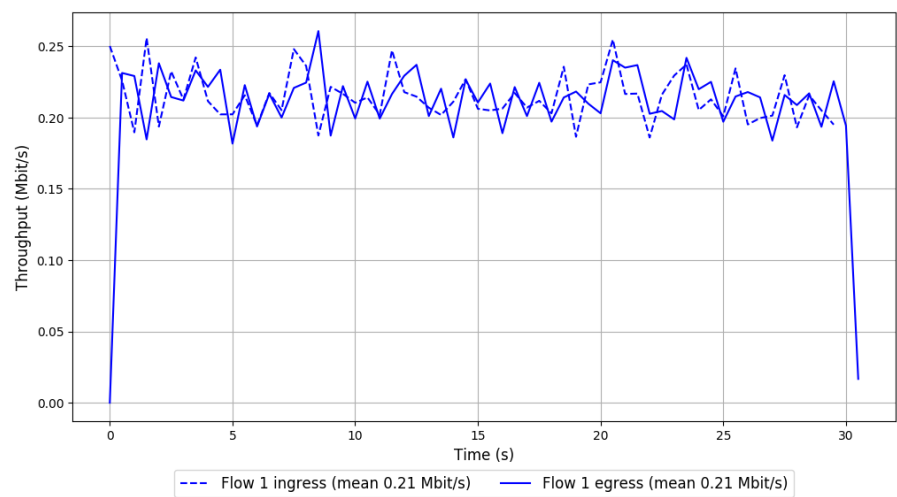
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.686 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

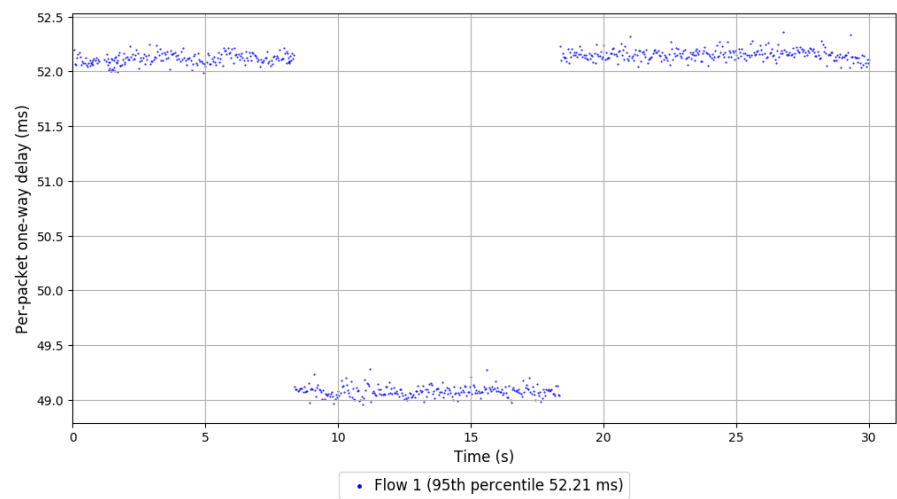
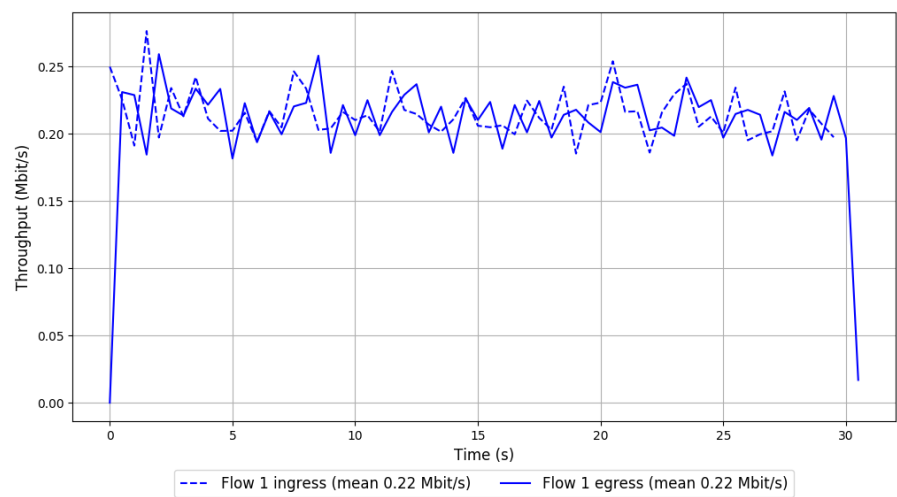


Run 3: Statistics of SCReAM

Start at: 2018-07-11 23:08:34
End at: 2018-07-11 23:09:04
Local clock offset: -0.011 ms
Remote clock offset: -1.575 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 52.209 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 52.209 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

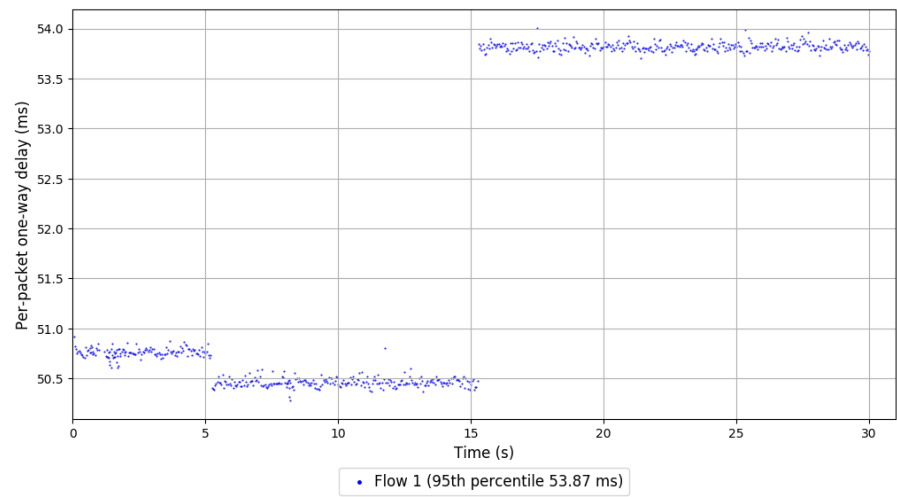
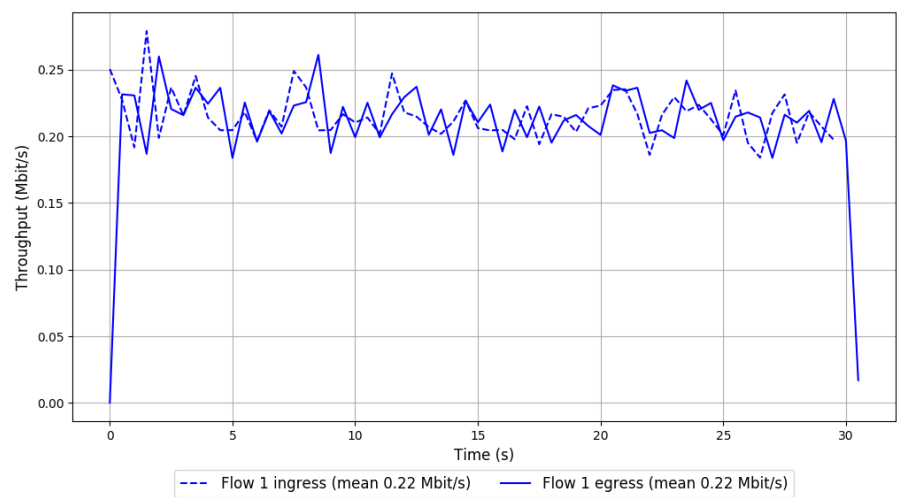


Run 4: Statistics of SCReAM

Start at: 2018-07-11 23:30:27
End at: 2018-07-11 23:30:57
Local clock offset: -0.204 ms
Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.866 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-11 23:52:34

End at: 2018-07-11 23:53:04

Local clock offset: -0.132 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.628 ms

Loss rate: 0.00%

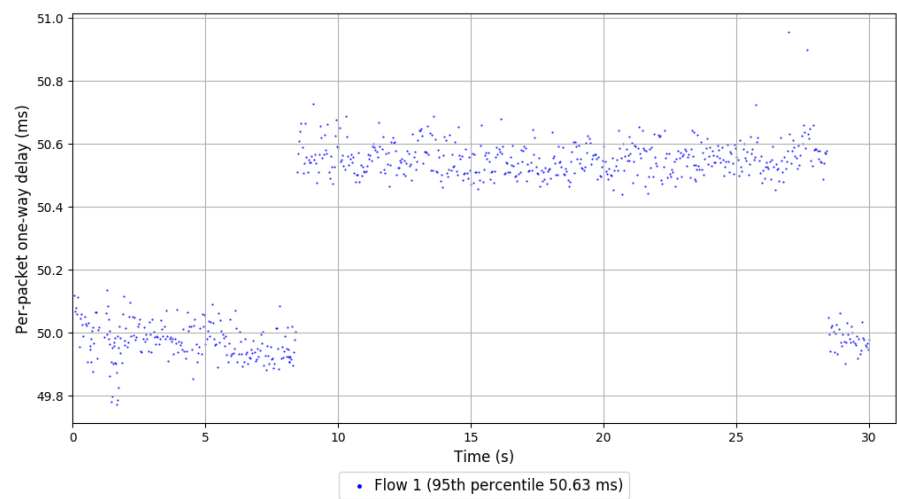
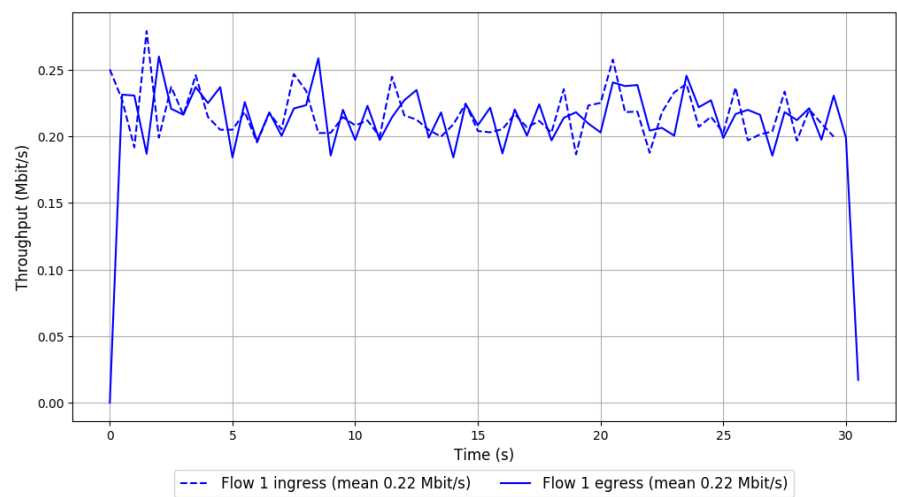
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.628 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

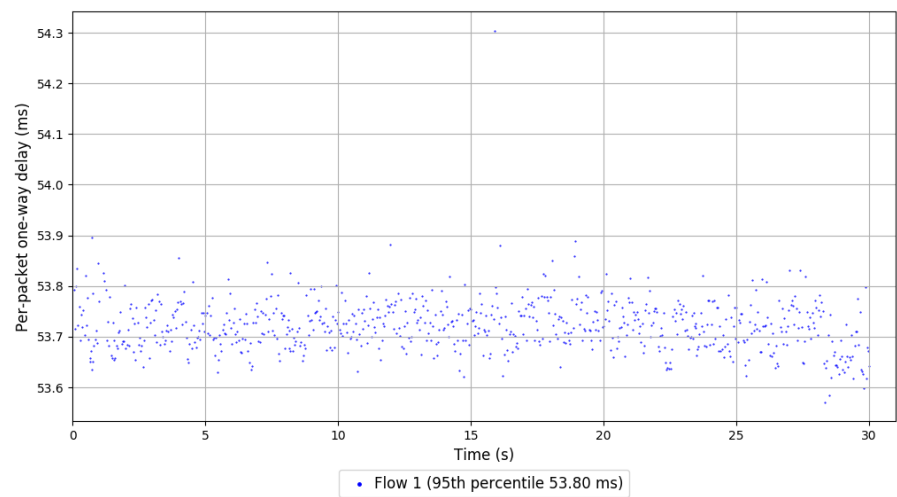
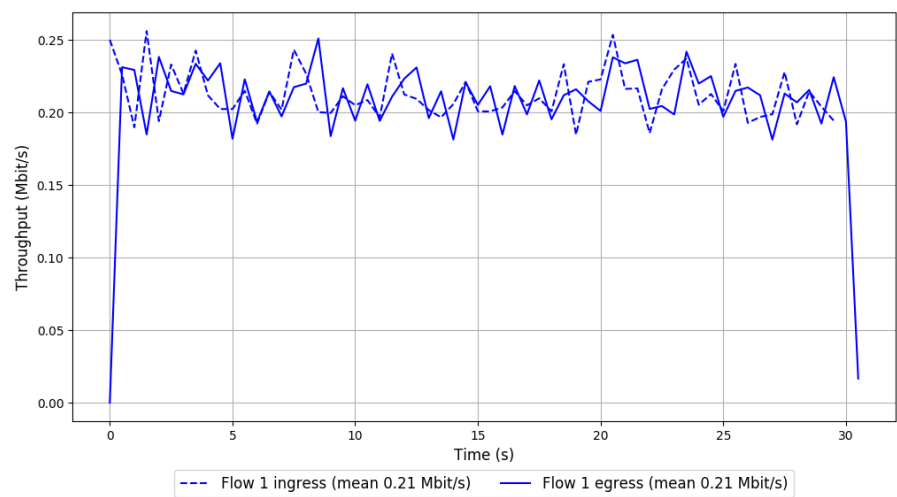


Run 6: Statistics of SCReAM

Start at: 2018-07-12 00:14:24
End at: 2018-07-12 00:14:54
Local clock offset: 0.041 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.800 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.800 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-12 00:36:37

End at: 2018-07-12 00:37:07

Local clock offset: 0.023 ms

Remote clock offset: 0.905 ms

Below is generated by plot.py at 2018-07-12 03:17:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.880 ms

Loss rate: 0.00%

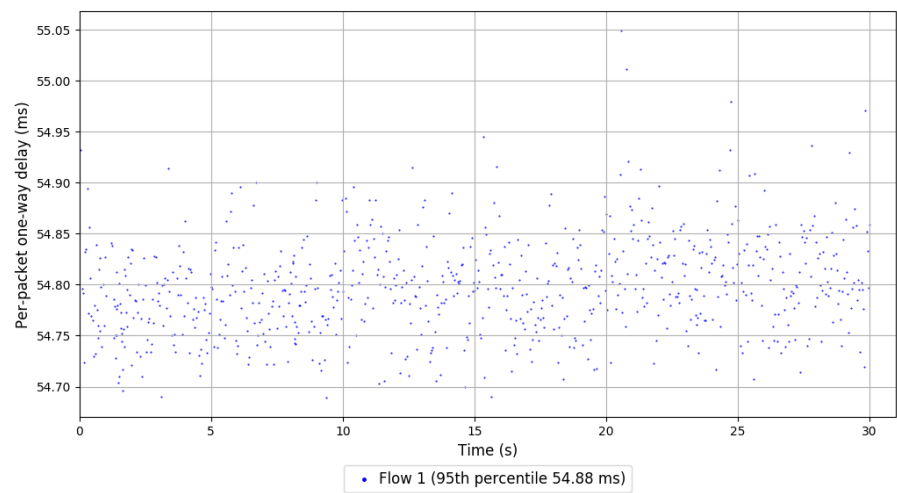
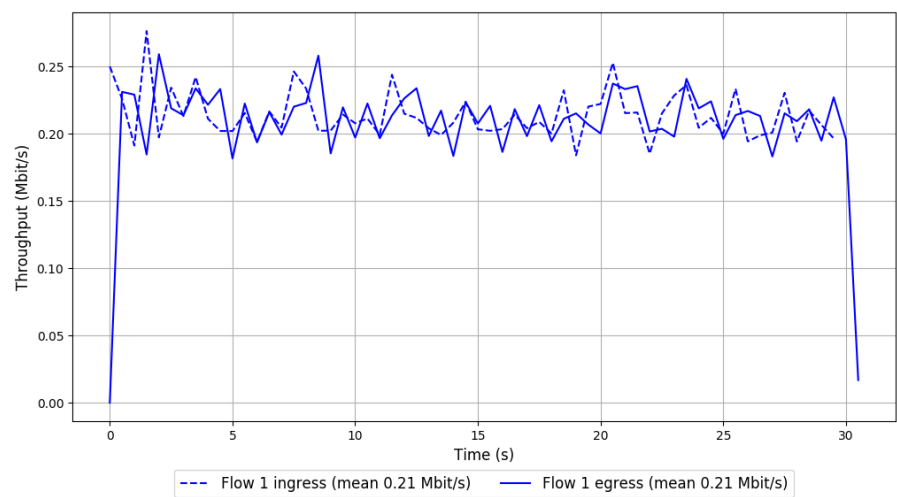
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.880 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

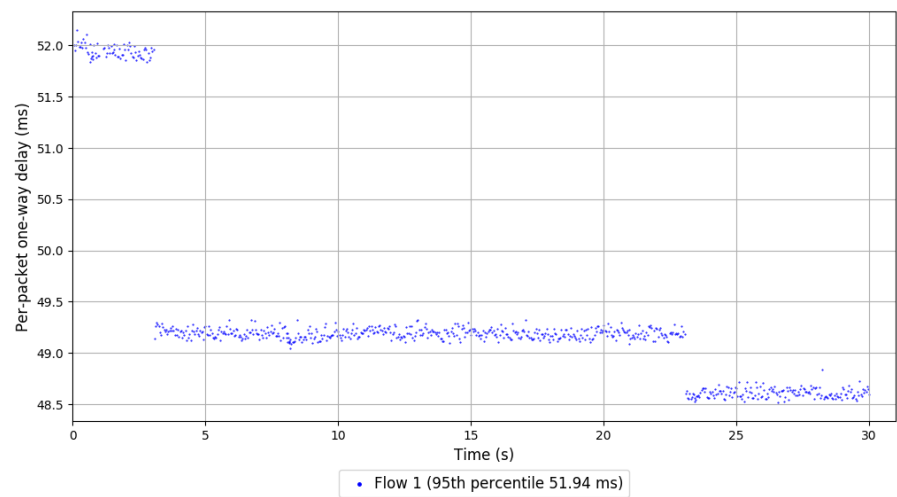
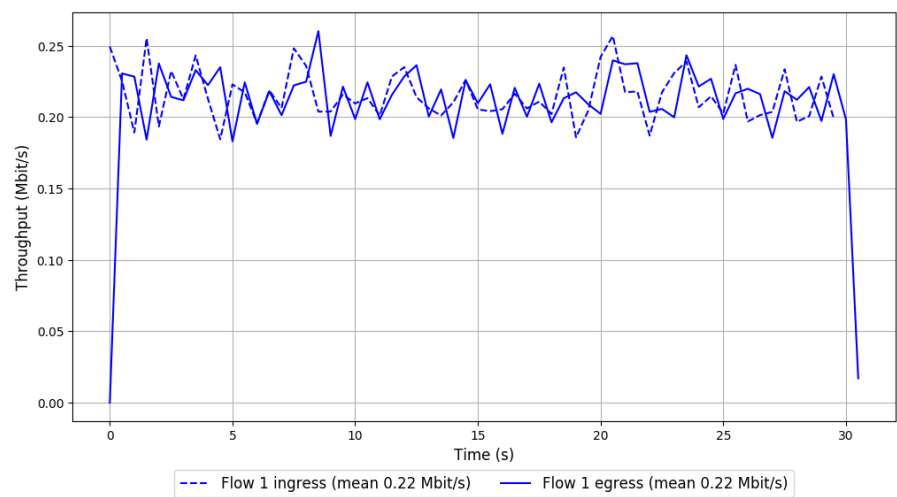


Run 8: Statistics of SCReAM

Start at: 2018-07-12 00:58:29
End at: 2018-07-12 00:58:59
Local clock offset: 0.083 ms
Remote clock offset: -1.449 ms

Below is generated by plot.py at 2018-07-12 03:17:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.938 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-12 01:20:00

End at: 2018-07-12 01:20:31

Local clock offset: 0.195 ms

Remote clock offset: 0.057 ms

Below is generated by plot.py at 2018-07-12 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.699 ms

Loss rate: 0.00%

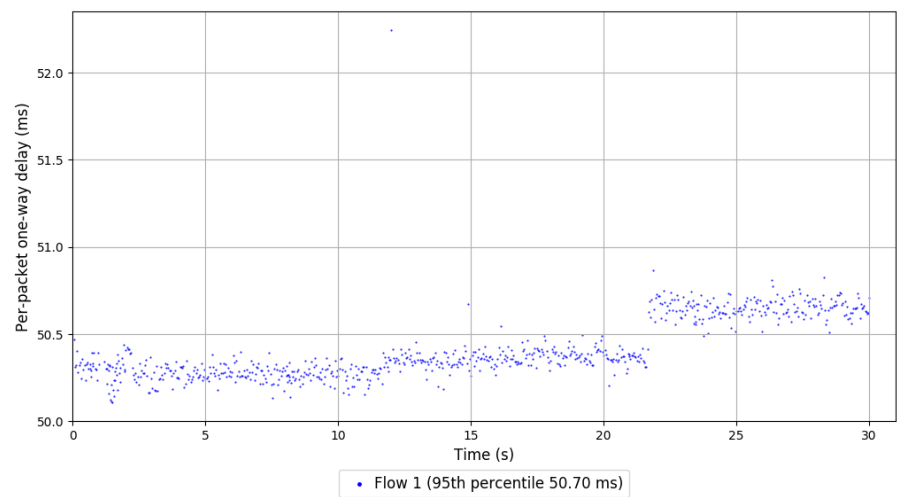
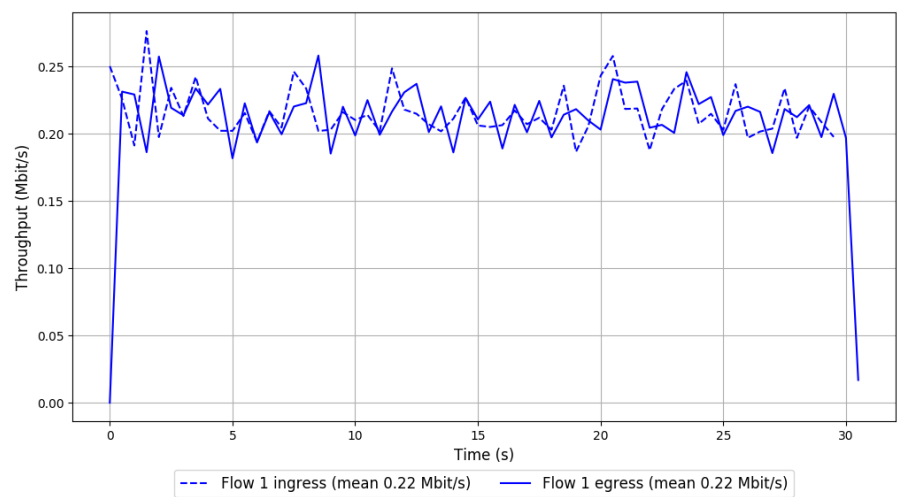
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.699 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-12 01:41:52

End at: 2018-07-12 01:42:22

Local clock offset: 0.006 ms

Remote clock offset: -1.562 ms

Below is generated by plot.py at 2018-07-12 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.058 ms

Loss rate: 0.00%

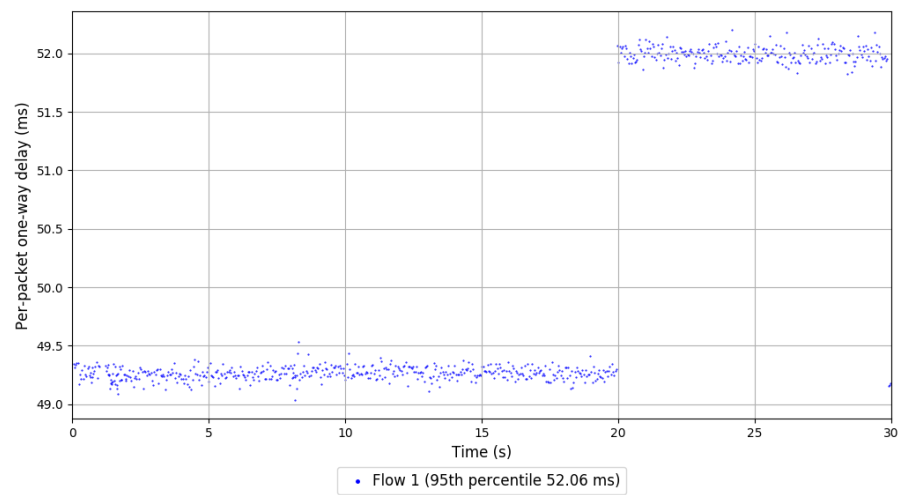
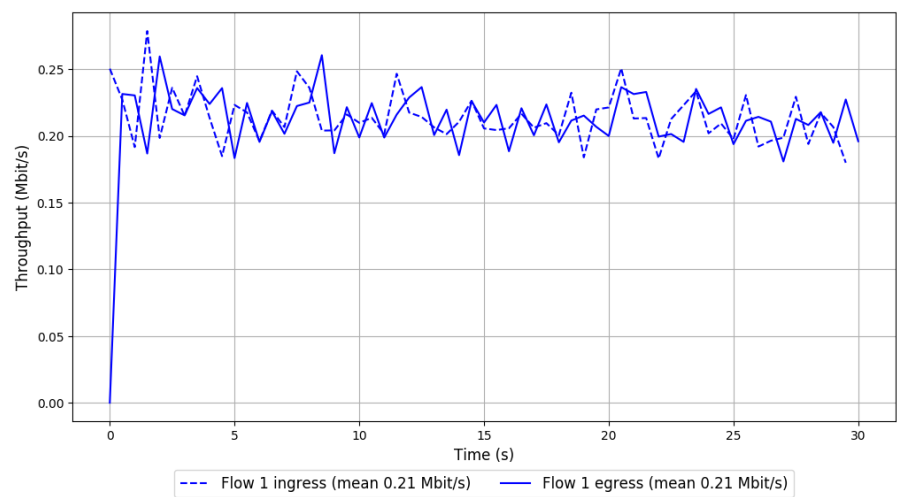
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.058 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-11 22:22:14

End at: 2018-07-11 22:22:44

Local clock offset: 0.179 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-07-12 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.248 ms

Loss rate: 0.00%

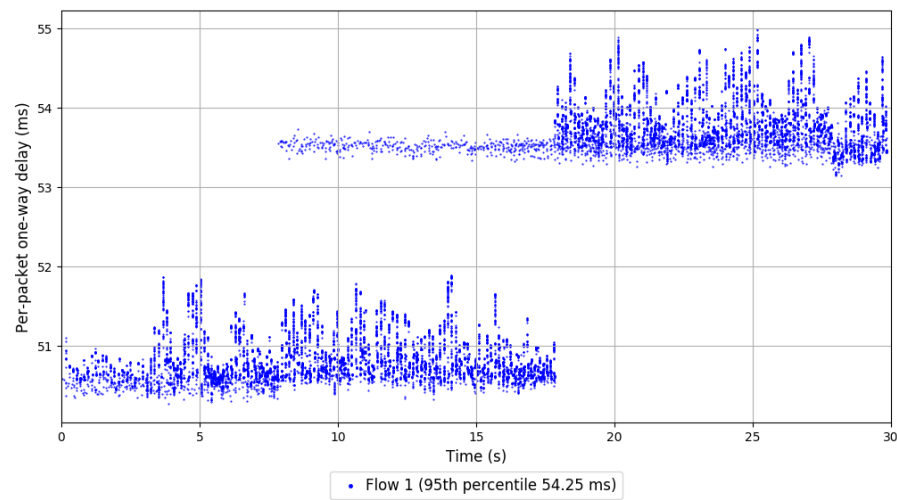
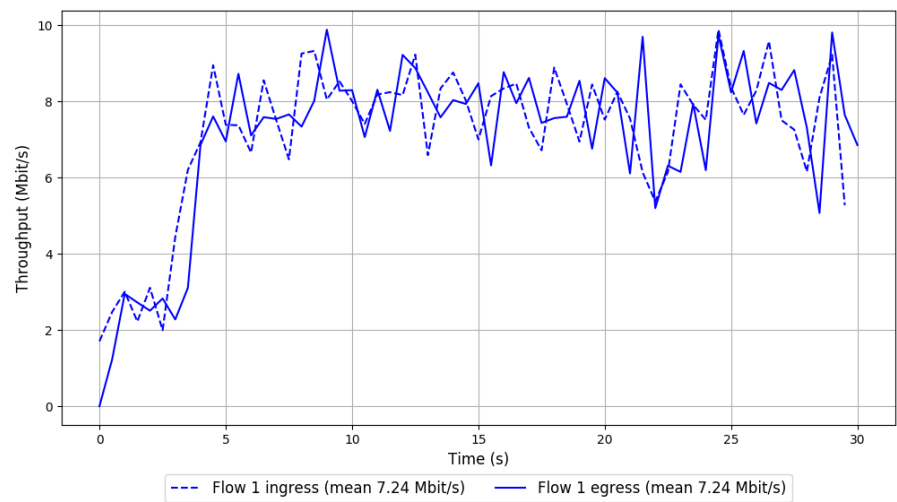
-- Flow 1:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.248 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

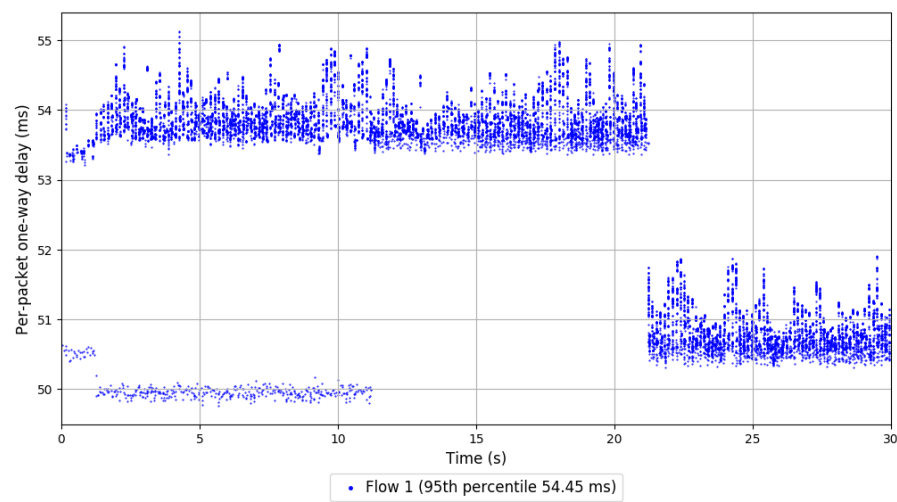
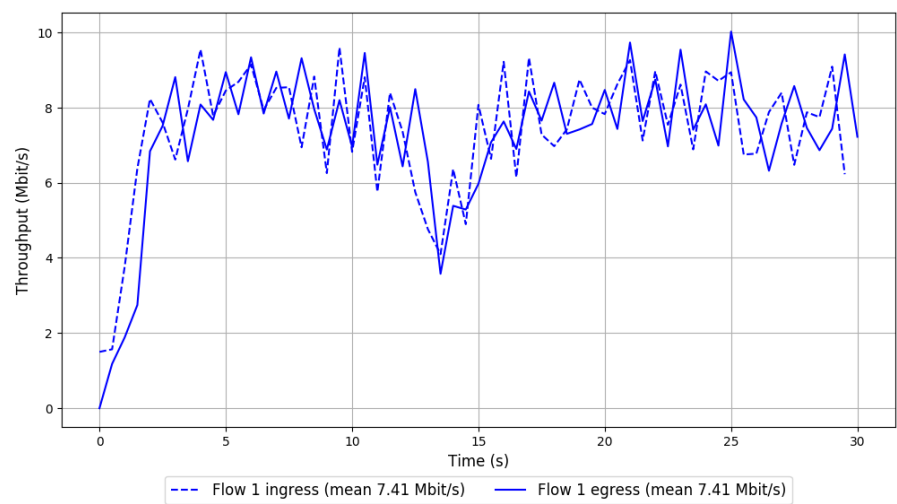


Run 2: Statistics of Sprout

Start at: 2018-07-11 22:43:51
End at: 2018-07-11 22:44:21
Local clock offset: -0.113 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2018-07-12 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 54.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 54.449 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

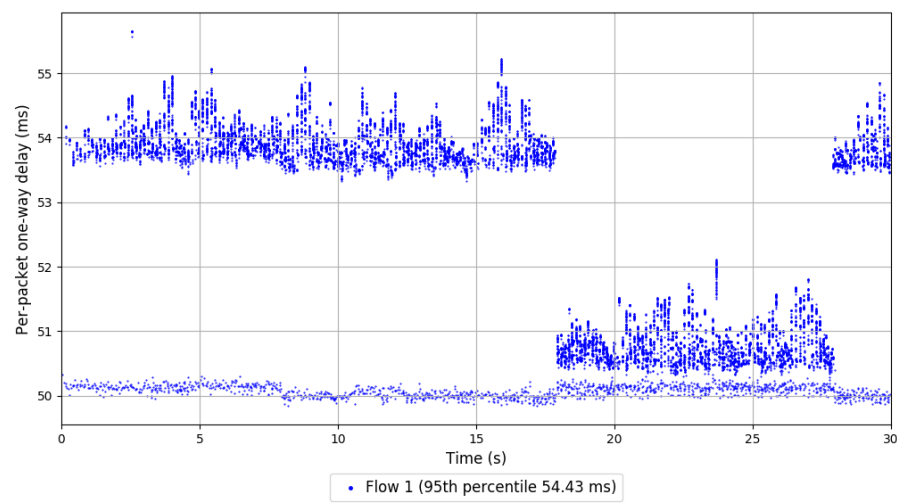
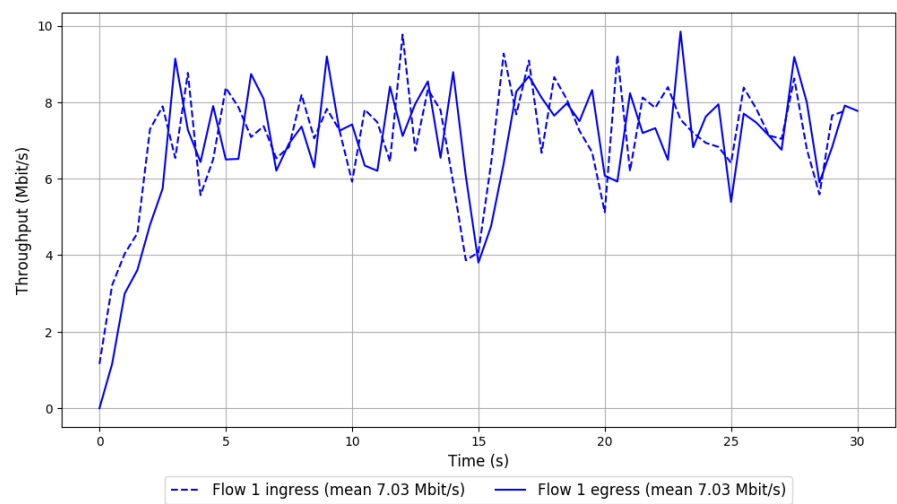


Run 3: Statistics of Sprout

Start at: 2018-07-11 23:06:04
End at: 2018-07-11 23:06:34
Local clock offset: 0.069 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-07-12 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 54.429 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 54.429 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-11 23:27:56

End at: 2018-07-11 23:28:26

Local clock offset: -0.131 ms

Remote clock offset: 1.258 ms

Below is generated by plot.py at 2018-07-12 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 55.923 ms

Loss rate: 0.00%

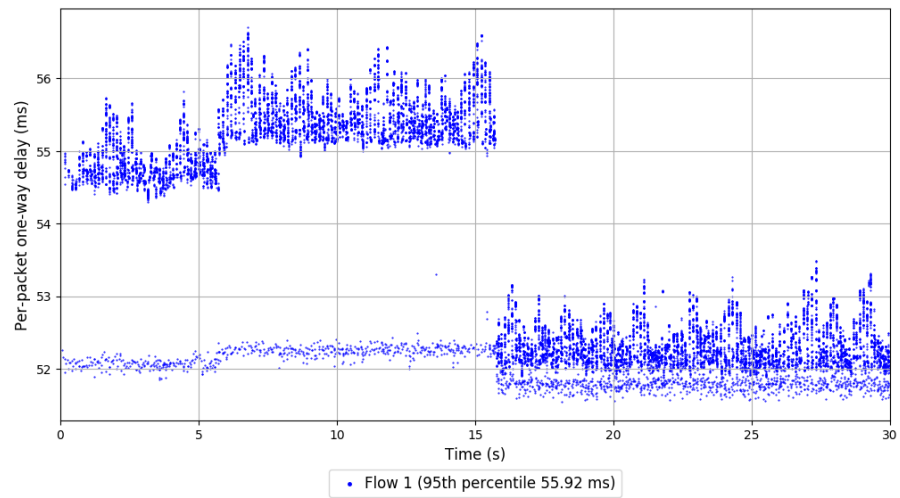
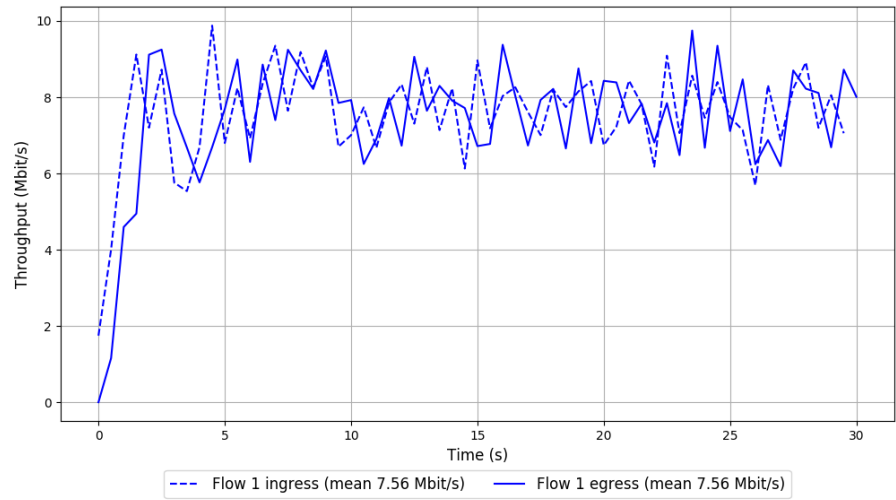
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 55.923 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-11 23:50:04

End at: 2018-07-11 23:50:34

Local clock offset: -0.03 ms

Remote clock offset: 1.118 ms

Below is generated by plot.py at 2018-07-12 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 55.917 ms

Loss rate: 0.00%

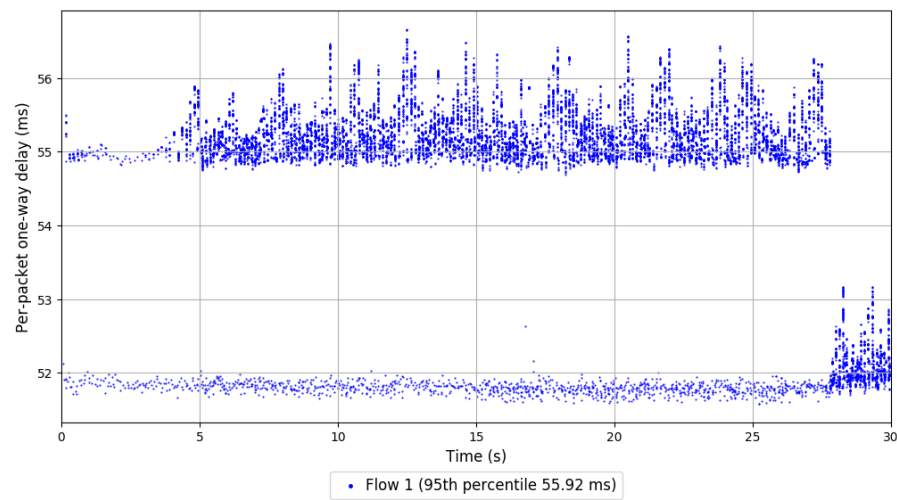
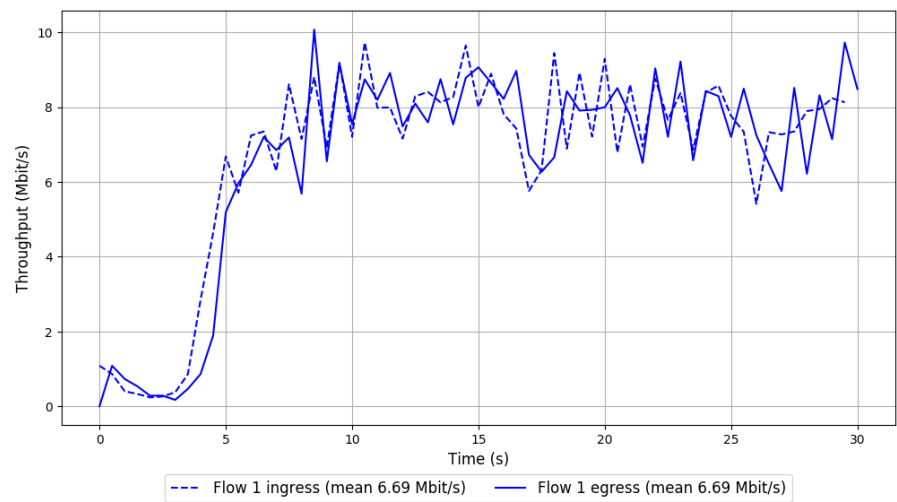
-- Flow 1:

Average throughput: 6.69 Mbit/s

95th percentile per-packet one-way delay: 55.917 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

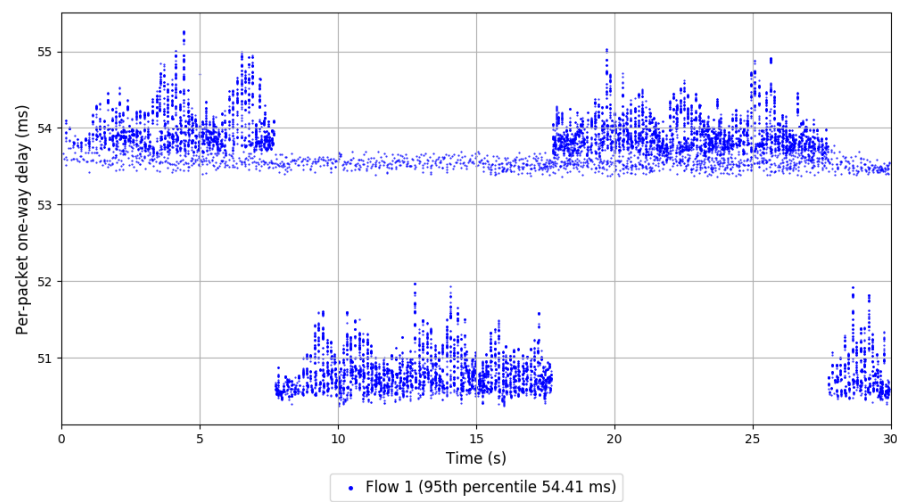
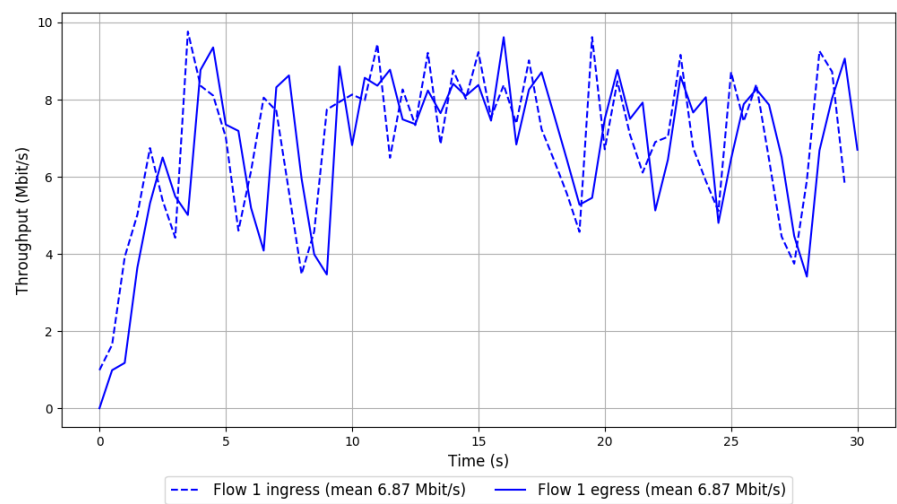


Run 6: Statistics of Sprout

Start at: 2018-07-12 00:11:54
End at: 2018-07-12 00:12:24
Local clock offset: 0.088 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-07-12 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 54.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 54.406 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

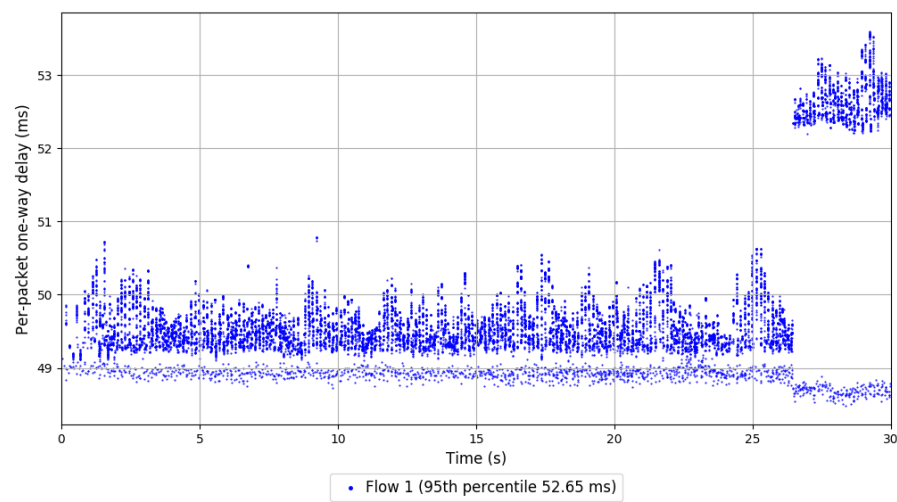
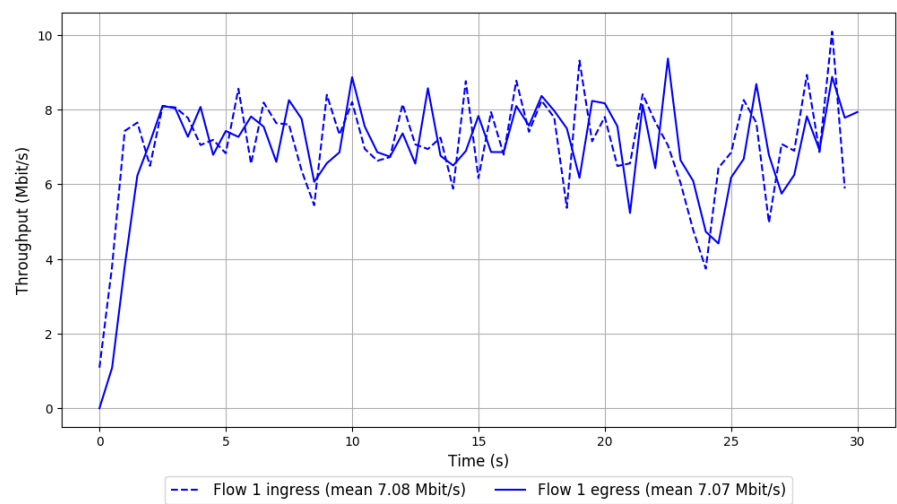


Run 7: Statistics of Sprout

Start at: 2018-07-12 00:34:06
End at: 2018-07-12 00:34:36
Local clock offset: -0.079 ms
Remote clock offset: -1.494 ms

Below is generated by plot.py at 2018-07-12 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 52.651 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 52.651 ms
Loss rate: 0.06%

Run 7: Report of Sprout — Data Link

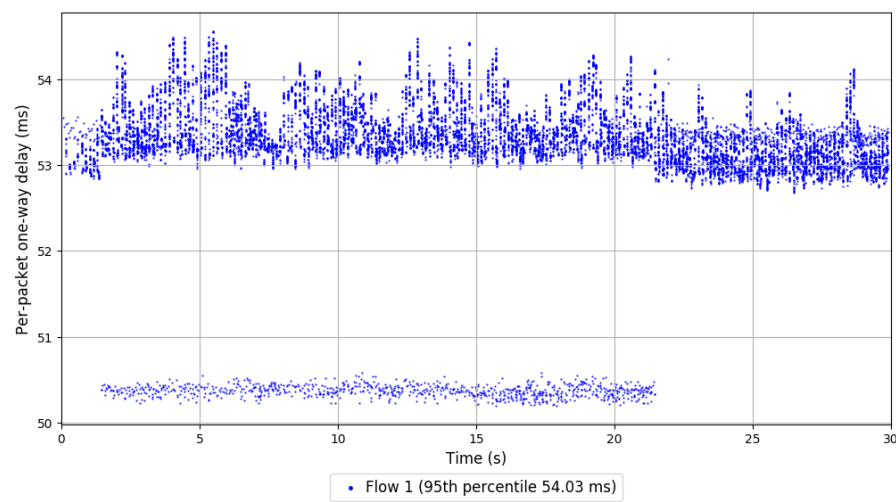
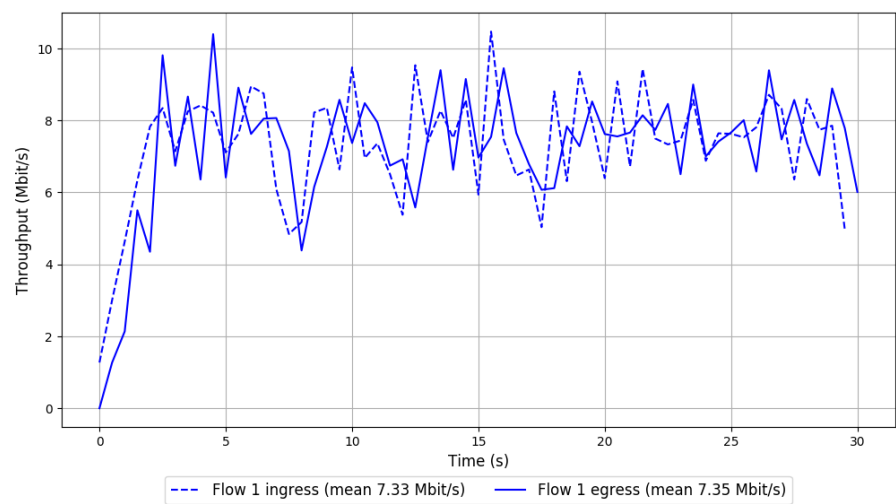


Run 8: Statistics of Sprout

Start at: 2018-07-12 00:56:01
End at: 2018-07-12 00:56:31
Local clock offset: 0.055 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2018-07-12 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 54.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 54.032 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

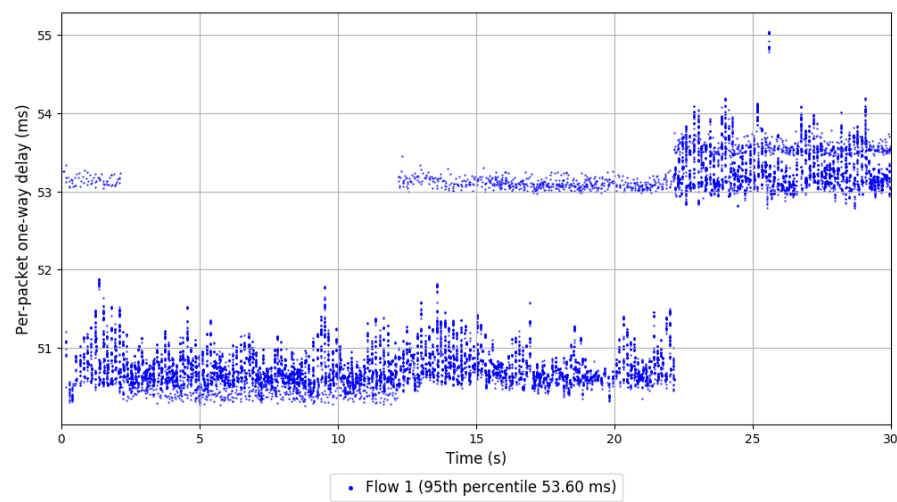
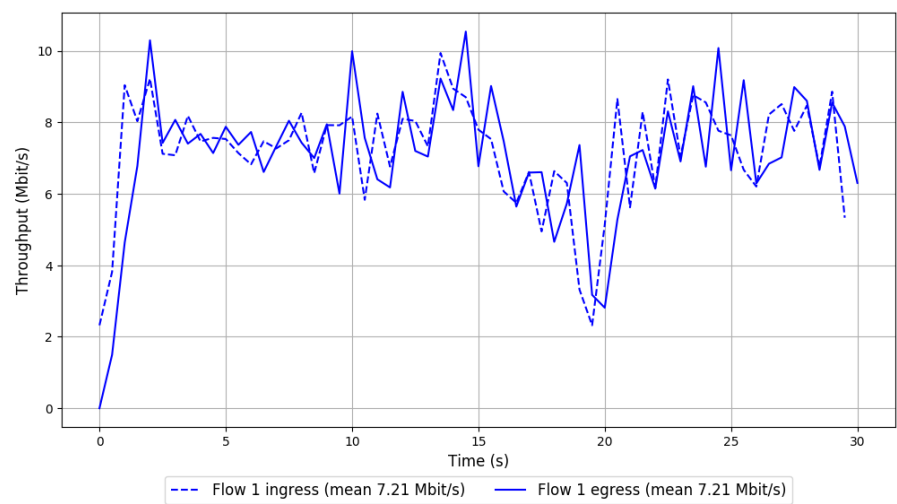


Run 9: Statistics of Sprout

Start at: 2018-07-12 01:17:30
End at: 2018-07-12 01:18:00
Local clock offset: -0.038 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2018-07-12 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.21 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-12 01:39:29

End at: 2018-07-12 01:39:59

Local clock offset: 0.014 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-07-12 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.296 ms

Loss rate: 0.00%

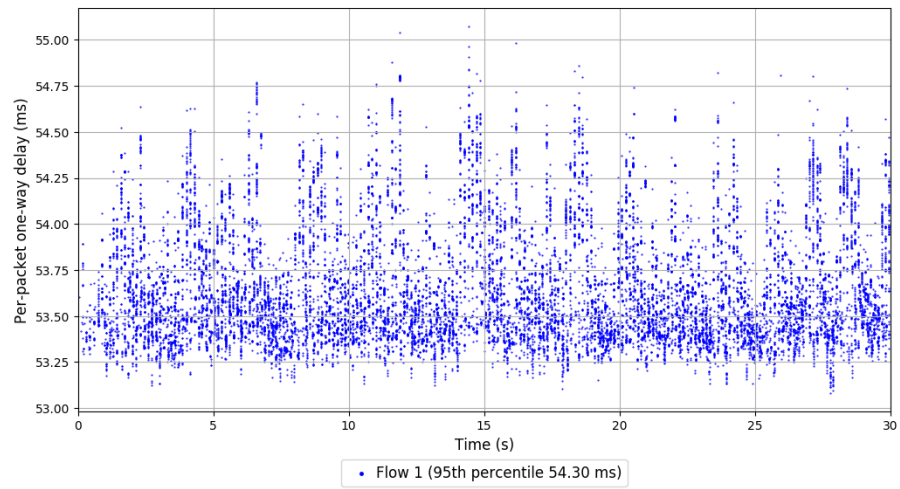
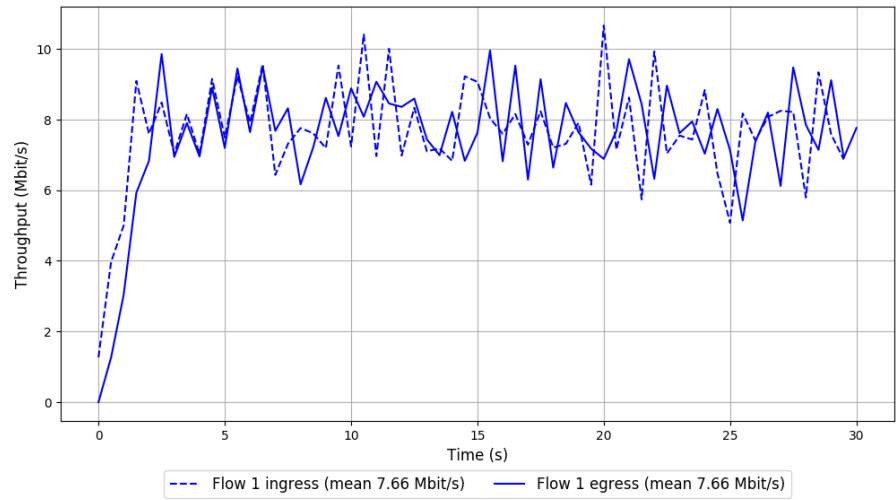
-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.296 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

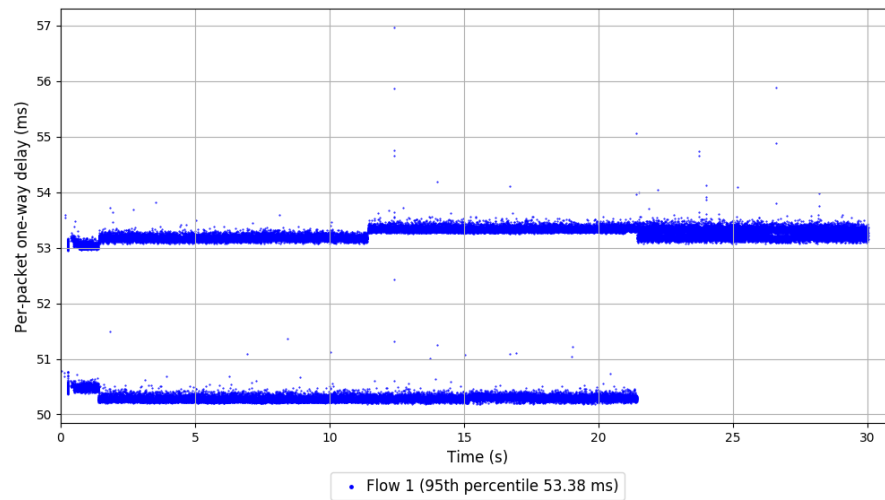
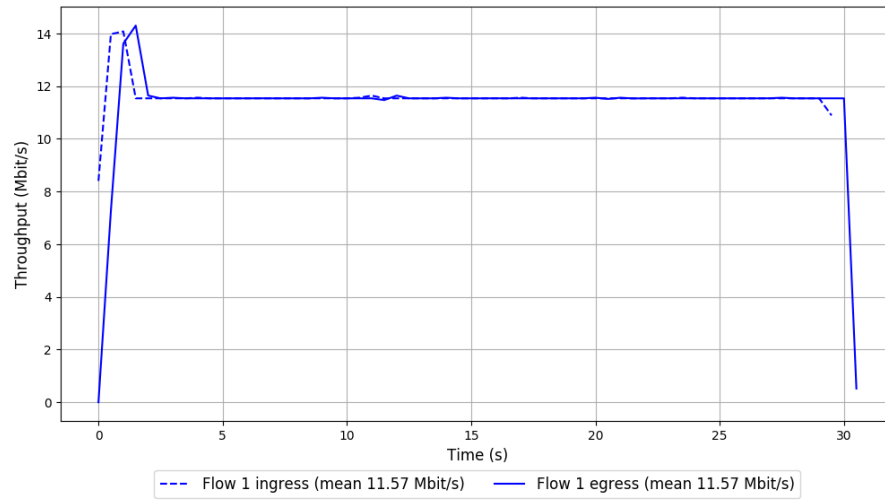


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-11 22:25:51
End at: 2018-07-11 22:26:21
Local clock offset: -0.087 ms
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2018-07-12 03:17:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 53.382 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 53.382 ms
Loss rate: 0.01%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-11 22:47:28

End at: 2018-07-11 22:47:58

Local clock offset: 0.166 ms

Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-07-12 03:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.31 Mbit/s

95th percentile per-packet one-way delay: 53.146 ms

Loss rate: 0.01%

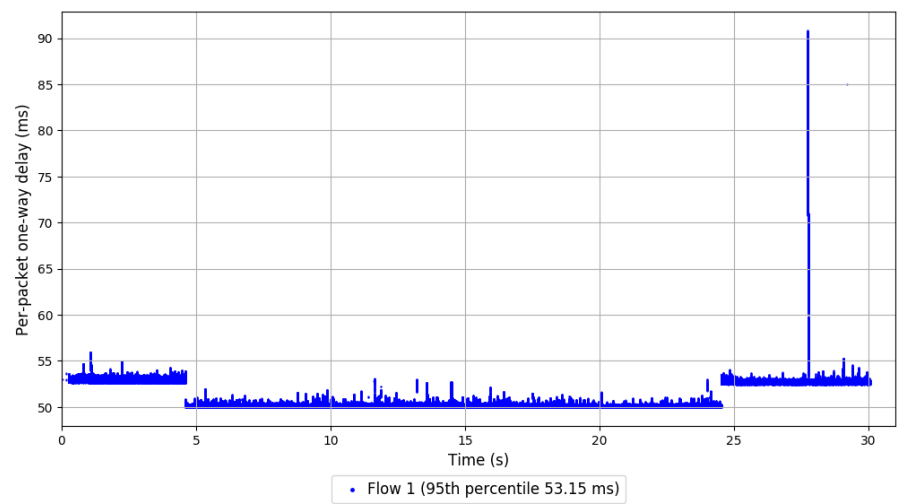
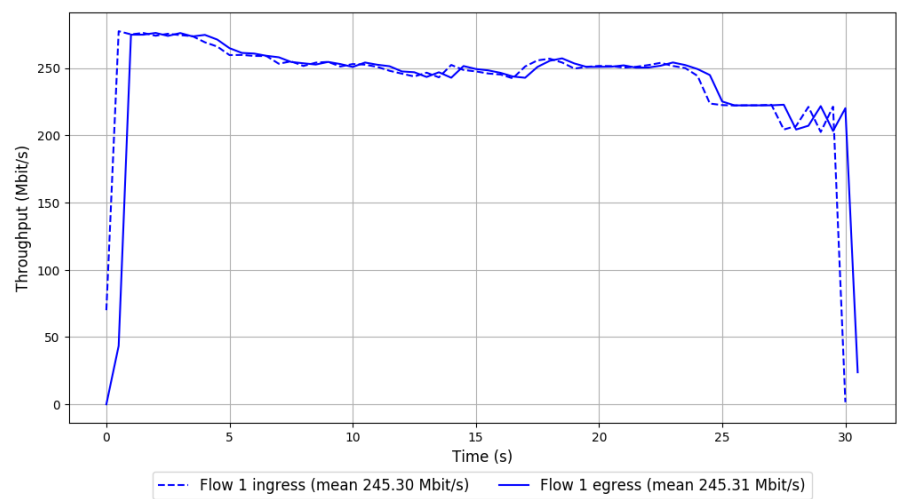
-- Flow 1:

Average throughput: 245.31 Mbit/s

95th percentile per-packet one-way delay: 53.146 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-11 23:09:39

End at: 2018-07-11 23:10:09

Local clock offset: -0.26 ms

Remote clock offset: 0.162 ms

Below is generated by plot.py at 2018-07-12 03:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.21 Mbit/s

95th percentile per-packet one-way delay: 54.153 ms

Loss rate: 0.01%

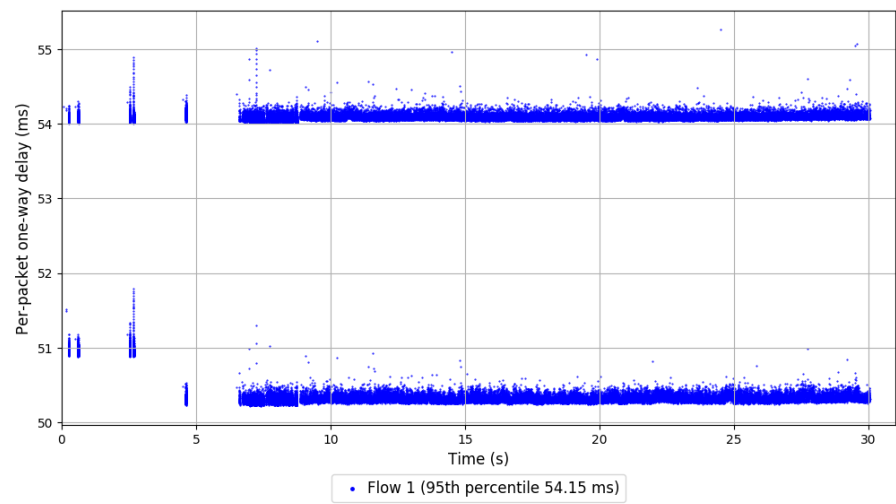
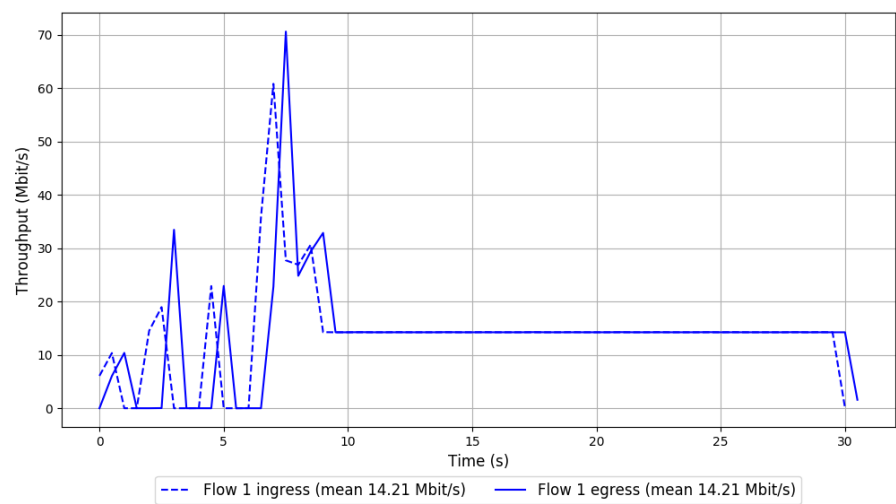
-- Flow 1:

Average throughput: 14.21 Mbit/s

95th percentile per-packet one-way delay: 54.153 ms

Loss rate: 0.01%

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

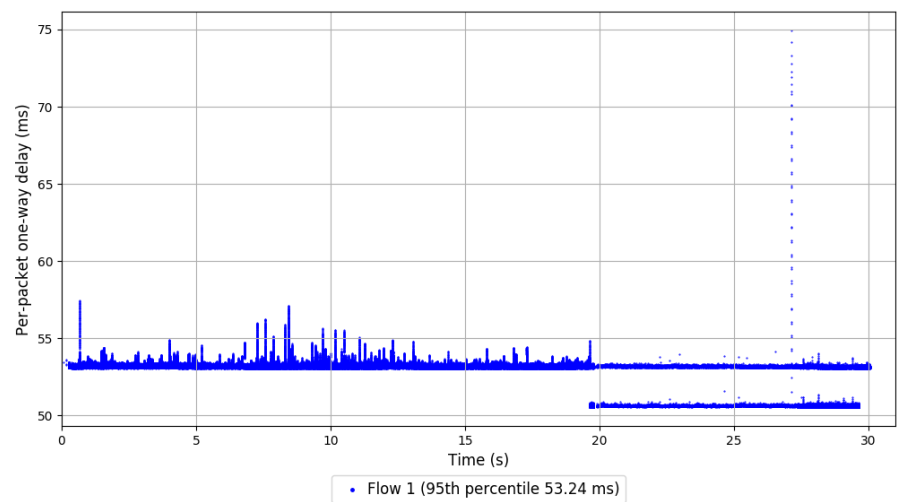
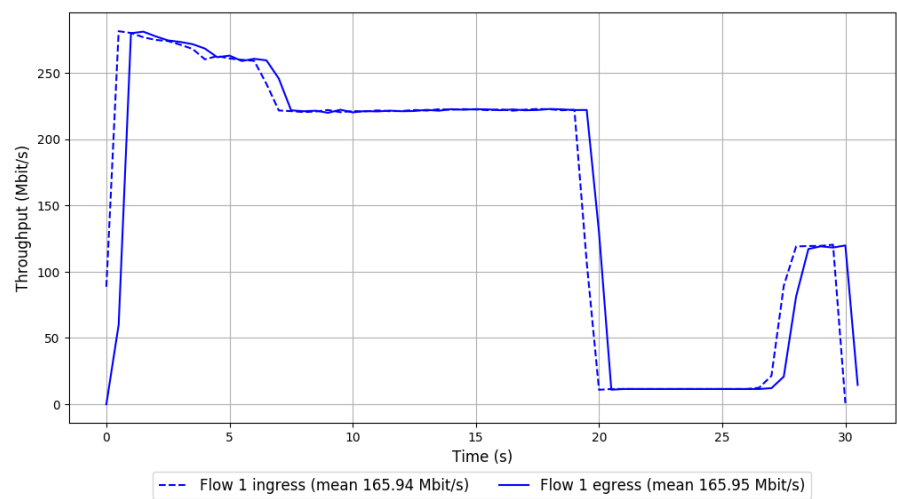


Run 4: Statistics of TaoVA-100x

Start at: 2018-07-11 23:31:33
End at: 2018-07-11 23:32:03
Local clock offset: -0.185 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-07-12 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 165.95 Mbit/s
95th percentile per-packet one-way delay: 53.236 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 165.95 Mbit/s
95th percentile per-packet one-way delay: 53.236 ms
Loss rate: 0.00%

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

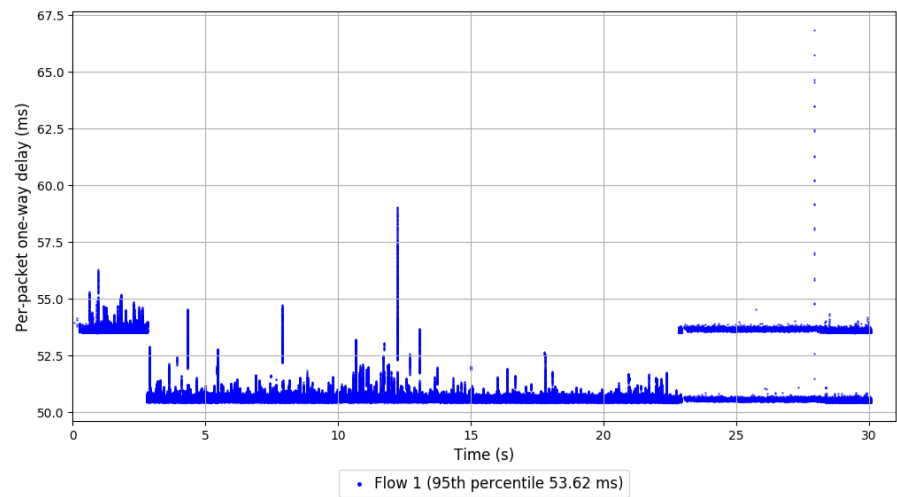
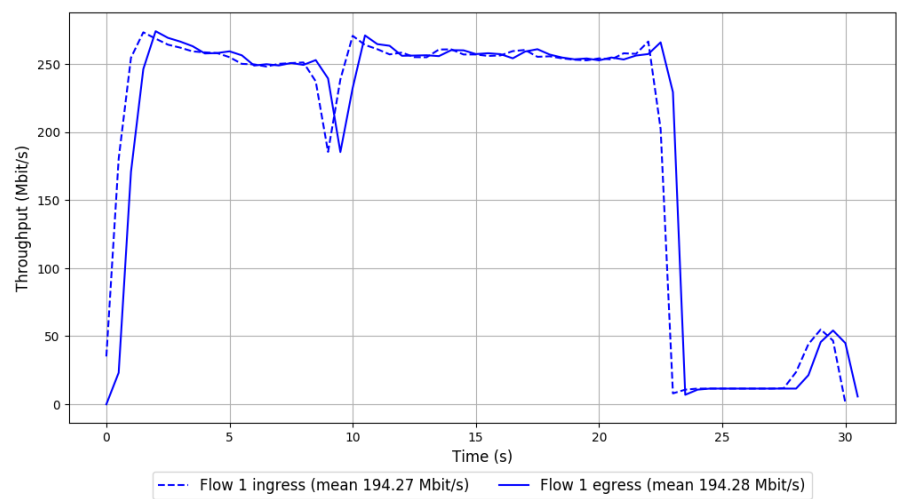


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-11 23:53:39
End at: 2018-07-11 23:54:09
Local clock offset: -0.028 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-07-12 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 194.28 Mbit/s
95th percentile per-packet one-way delay: 53.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.28 Mbit/s
95th percentile per-packet one-way delay: 53.619 ms
Loss rate: 0.00%

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

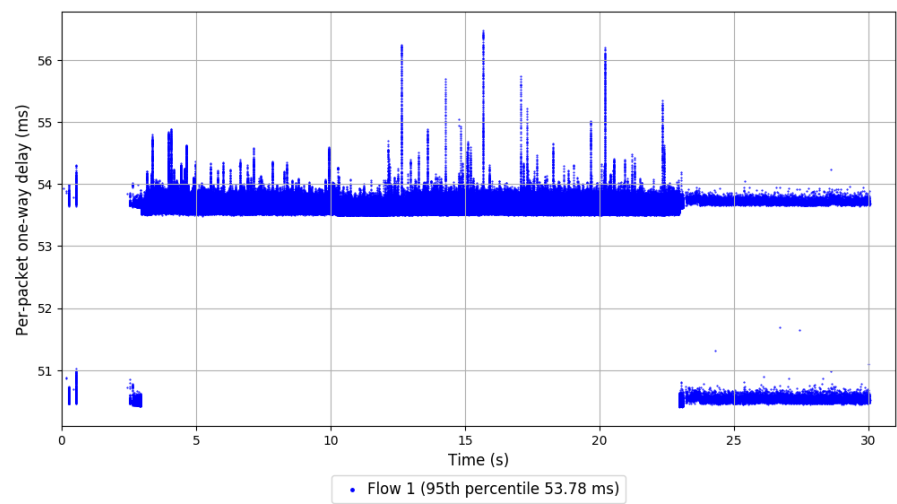
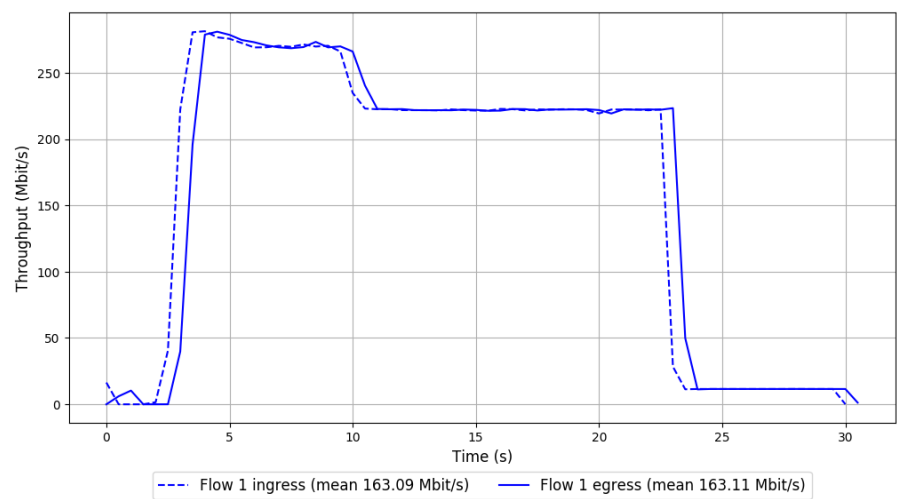


Run 6: Statistics of TaoVA-100x

Start at: 2018-07-12 00:15:29
End at: 2018-07-12 00:15:59
Local clock offset: -0.203 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2018-07-12 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 163.11 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.11 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 0.00%

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

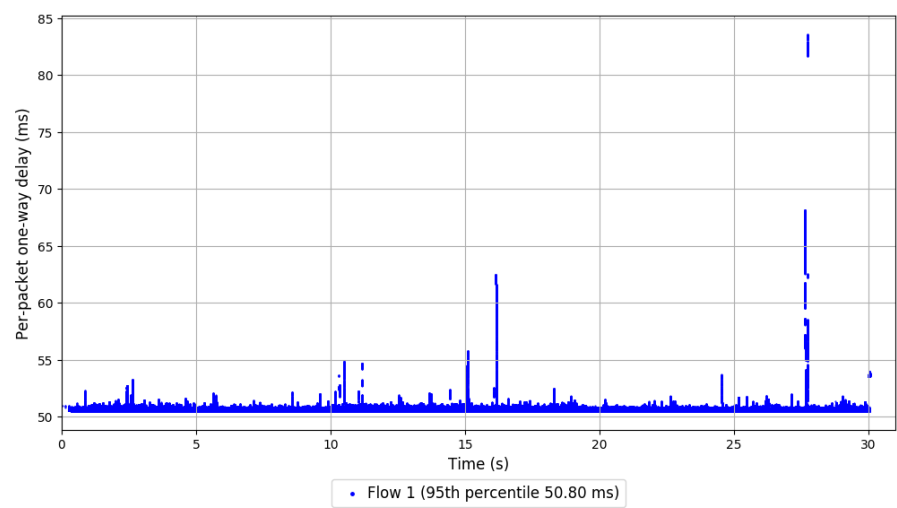
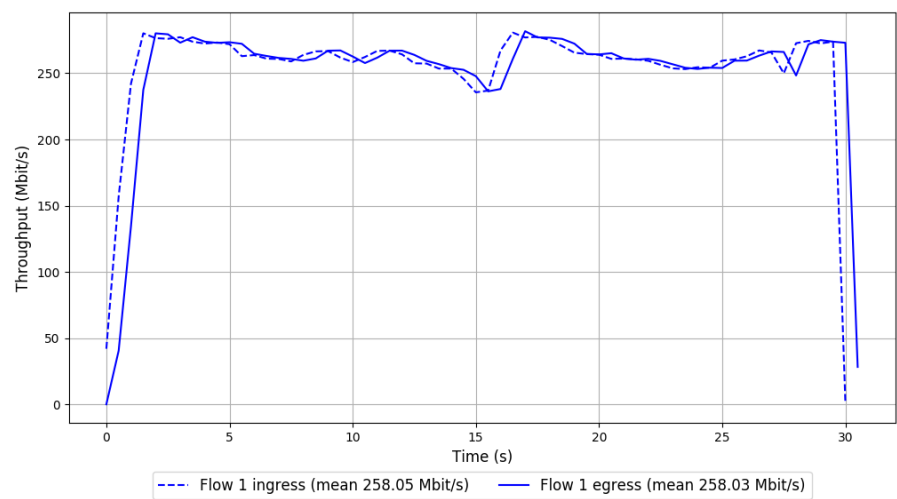


Run 7: Statistics of TaoVA-100x

Start at: 2018-07-12 00:37:42
End at: 2018-07-12 00:38:12
Local clock offset: -0.058 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-12 03:24:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 258.03 Mbit/s
95th percentile per-packet one-way delay: 50.796 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 258.03 Mbit/s
95th percentile per-packet one-way delay: 50.796 ms
Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-12 00:59:34

End at: 2018-07-12 01:00:04

Local clock offset: 0.103 ms

Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-07-12 03:24:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 53.417 ms

Loss rate: 0.00%

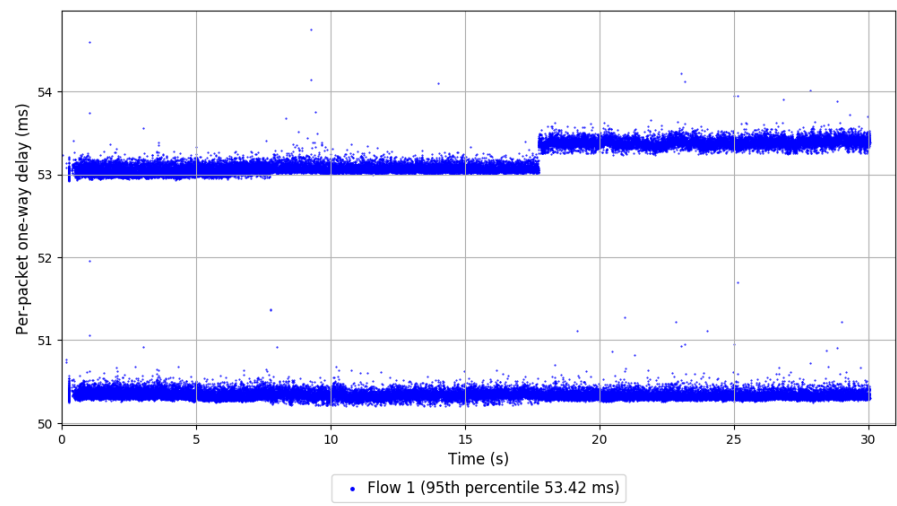
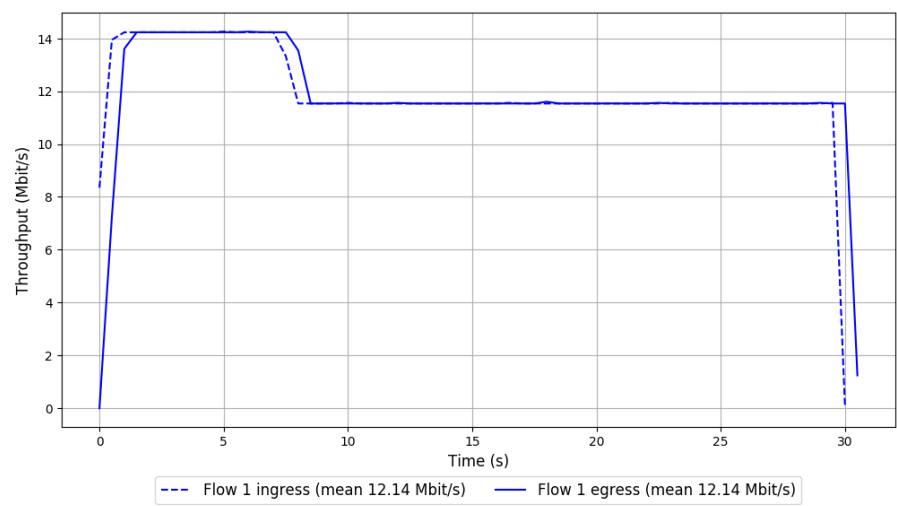
-- Flow 1:

Average throughput: 12.14 Mbit/s

95th percentile per-packet one-way delay: 53.417 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-12 01:21:06

End at: 2018-07-12 01:21:36

Local clock offset: -0.208 ms

Remote clock offset: 1.21 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.95 Mbit/s

95th percentile per-packet one-way delay: 54.888 ms

Loss rate: 0.00%

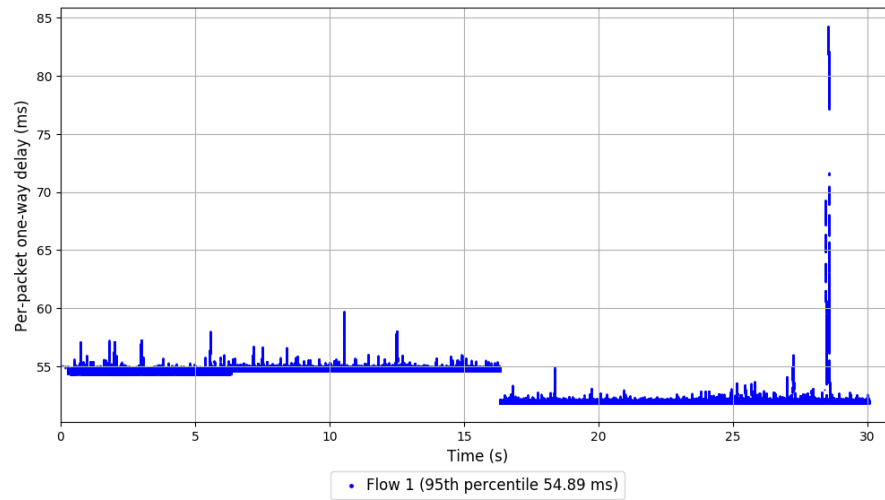
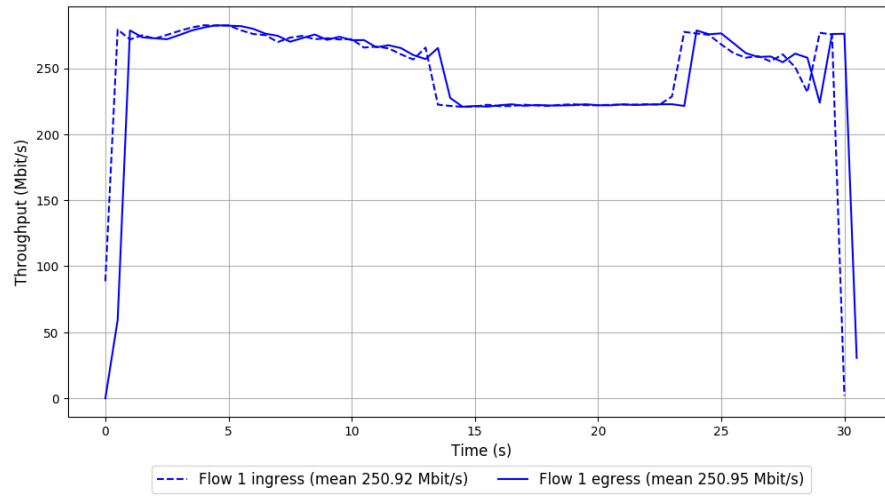
-- Flow 1:

Average throughput: 250.95 Mbit/s

95th percentile per-packet one-way delay: 54.888 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-12 01:42:58

End at: 2018-07-12 01:43:28

Local clock offset: 0.056 ms

Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 53.316 ms

Loss rate: 0.01%

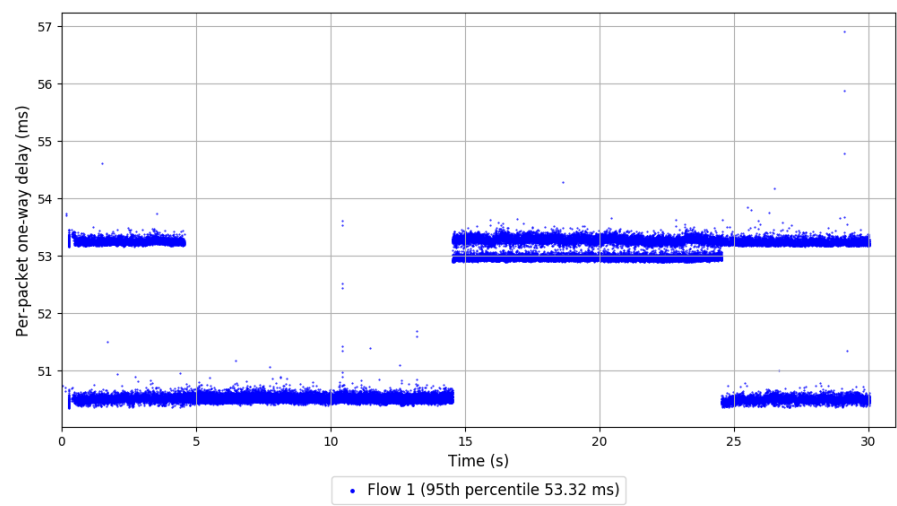
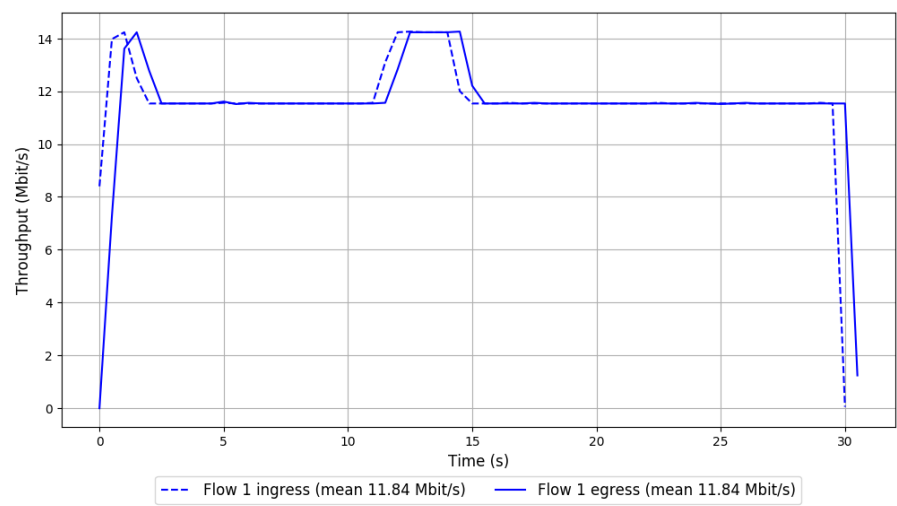
-- Flow 1:

Average throughput: 11.84 Mbit/s

95th percentile per-packet one-way delay: 53.316 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-11 22:18:41

End at: 2018-07-11 22:19:11

Local clock offset: 0.064 ms

Remote clock offset: 0.112 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.30 Mbit/s

95th percentile per-packet one-way delay: 54.278 ms

Loss rate: 0.00%

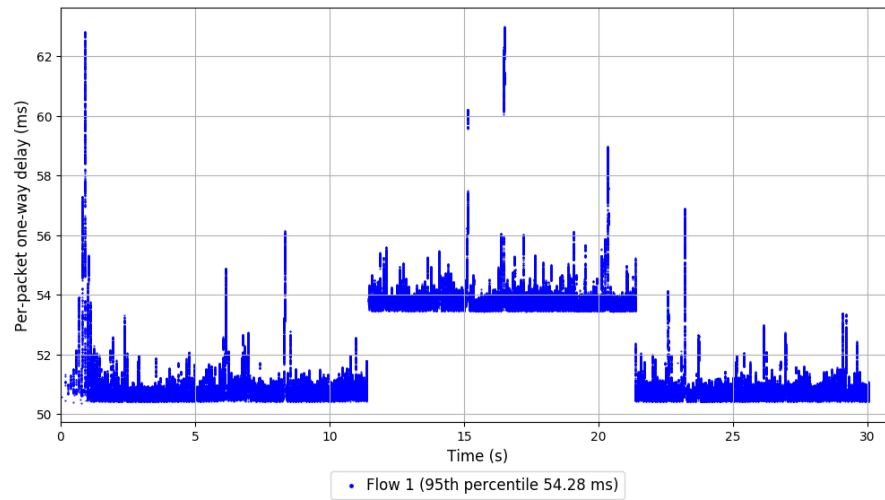
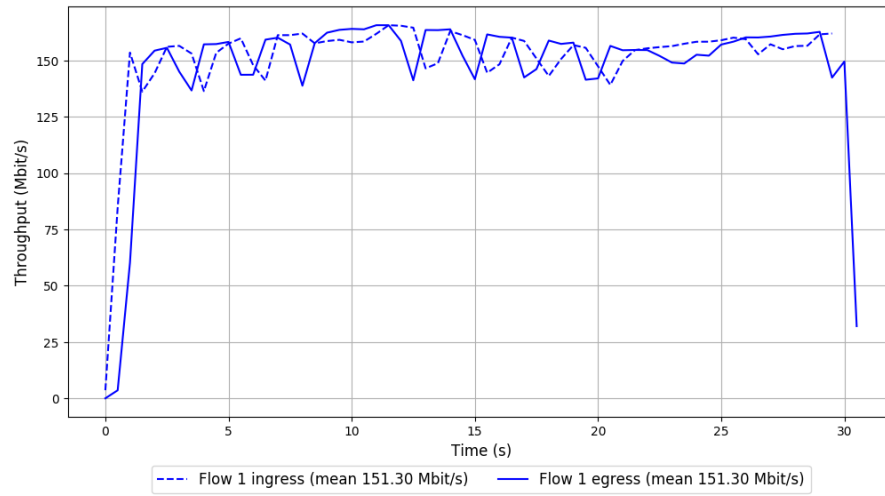
-- Flow 1:

Average throughput: 151.30 Mbit/s

95th percentile per-packet one-way delay: 54.278 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-11 22:40:23

End at: 2018-07-11 22:40:53

Local clock offset: -0.212 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 54.374 ms

Loss rate: 0.00%

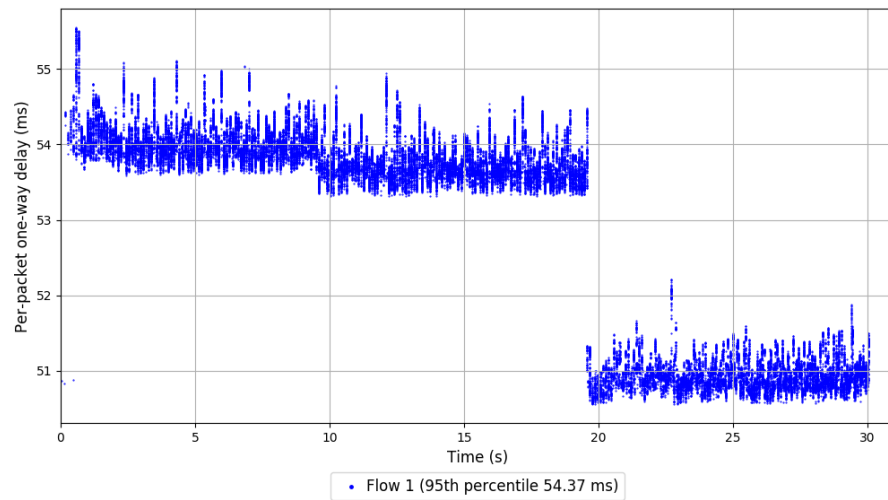
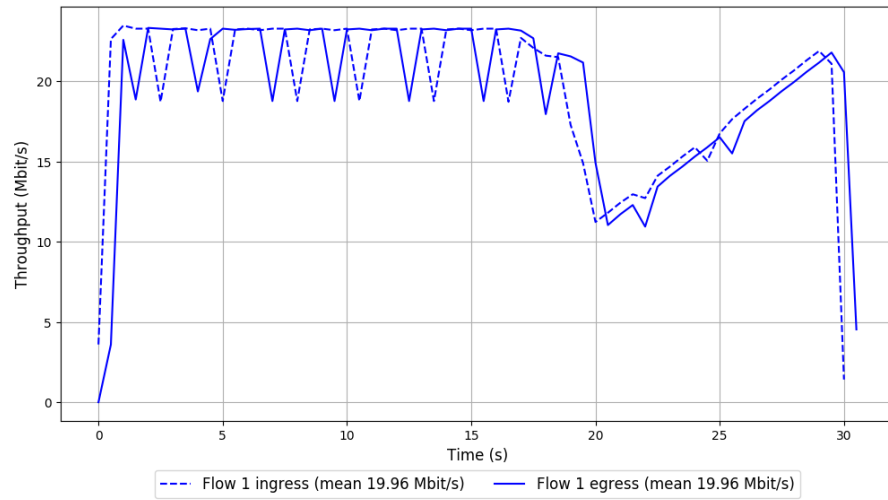
-- Flow 1:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 54.374 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-11 23:02:35

End at: 2018-07-11 23:03:05

Local clock offset: 0.082 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.15 Mbit/s

95th percentile per-packet one-way delay: 54.393 ms

Loss rate: 0.00%

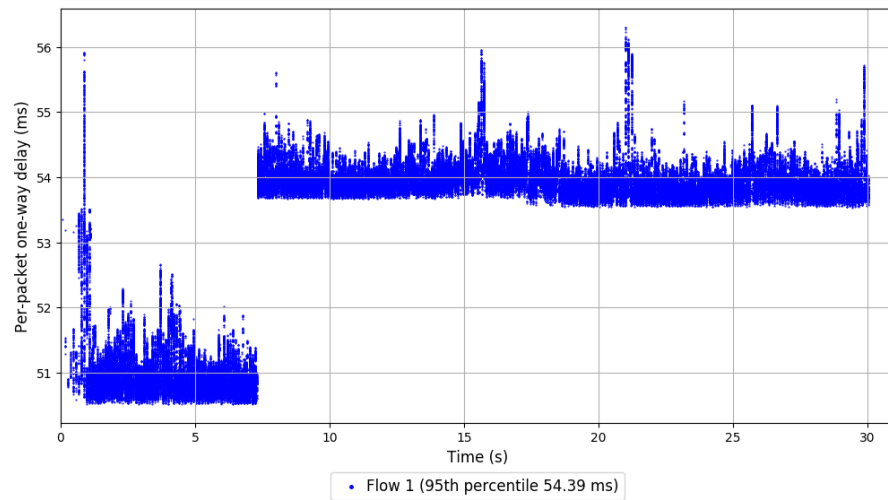
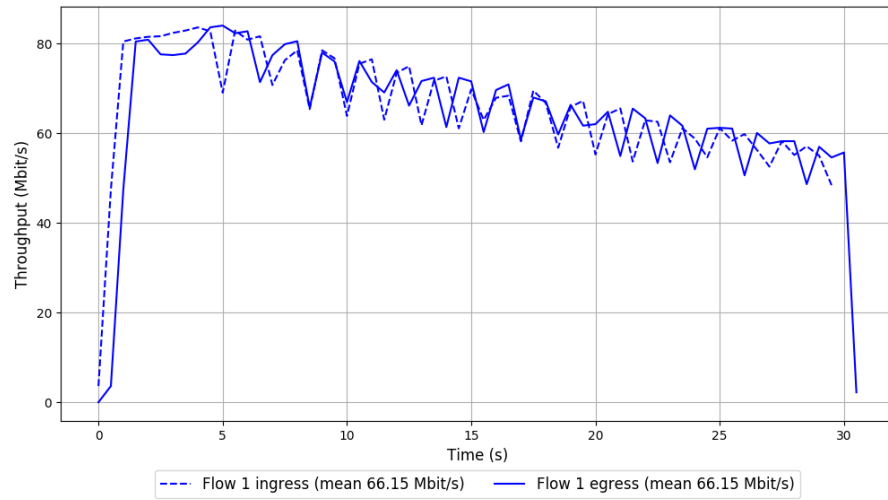
-- Flow 1:

Average throughput: 66.15 Mbit/s

95th percentile per-packet one-way delay: 54.393 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

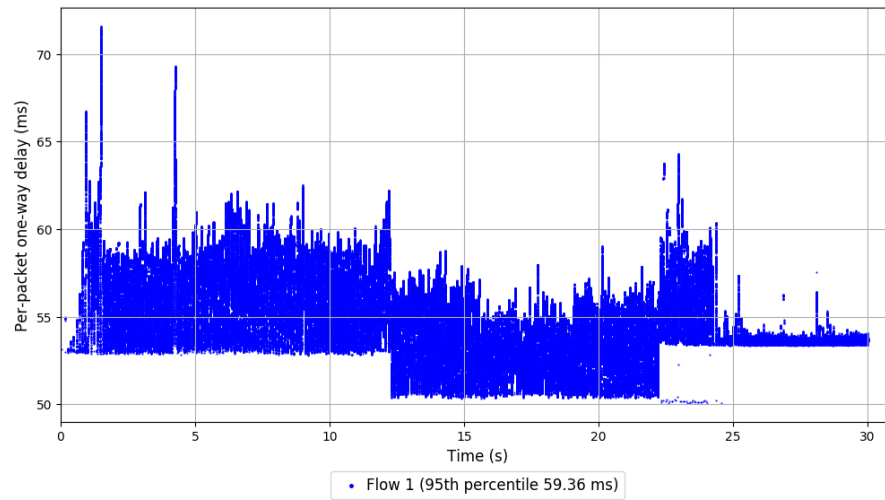
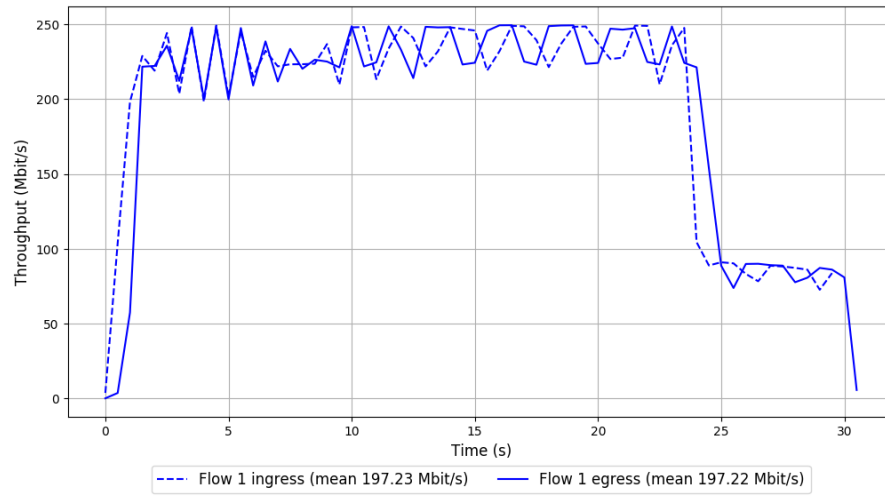


Run 4: Statistics of TCP Vegas

Start at: 2018-07-11 23:24:20
End at: 2018-07-11 23:24:50
Local clock offset: -0.096 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-07-12 03:25:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.22 Mbit/s
95th percentile per-packet one-way delay: 59.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.22 Mbit/s
95th percentile per-packet one-way delay: 59.364 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-11 23:46:34

End at: 2018-07-11 23:47:04

Local clock offset: 0.062 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 54.131 ms

Loss rate: 0.04%

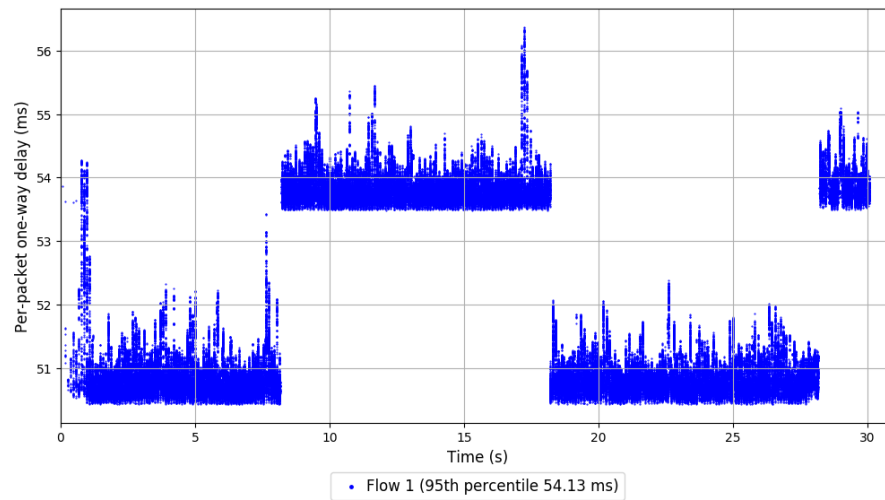
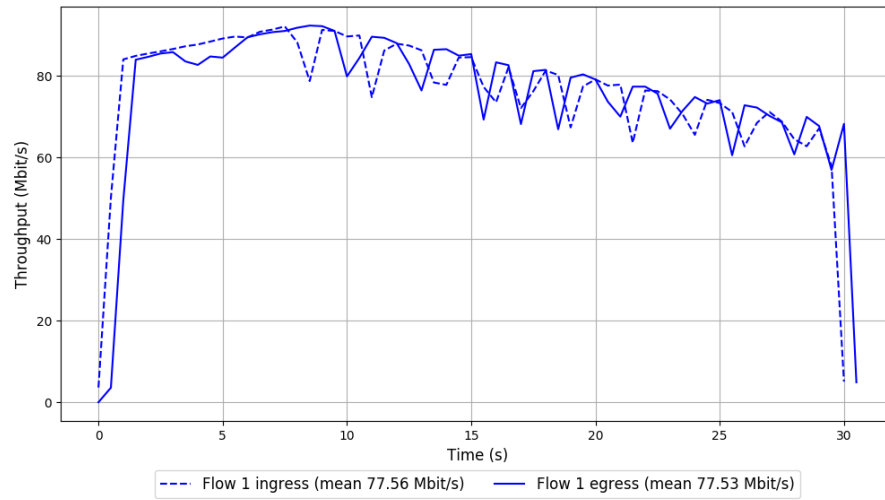
-- Flow 1:

Average throughput: 77.53 Mbit/s

95th percentile per-packet one-way delay: 54.131 ms

Loss rate: 0.04%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-12 00:08:24

End at: 2018-07-12 00:08:54

Local clock offset: -0.242 ms

Remote clock offset: 1.064 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 57.375 ms

Loss rate: 0.00%

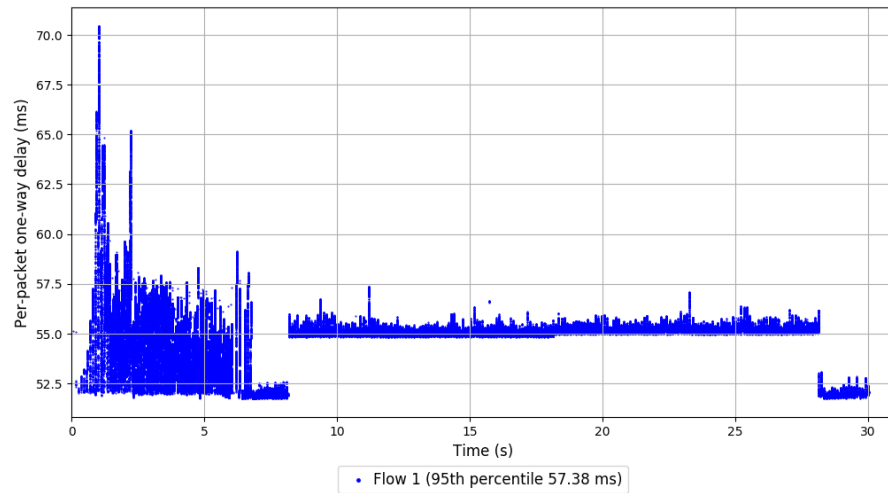
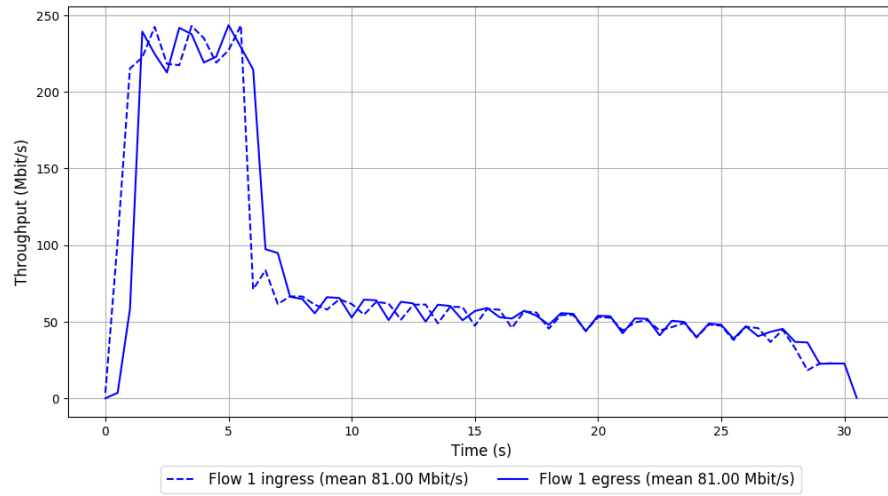
-- Flow 1:

Average throughput: 81.00 Mbit/s

95th percentile per-packet one-way delay: 57.375 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

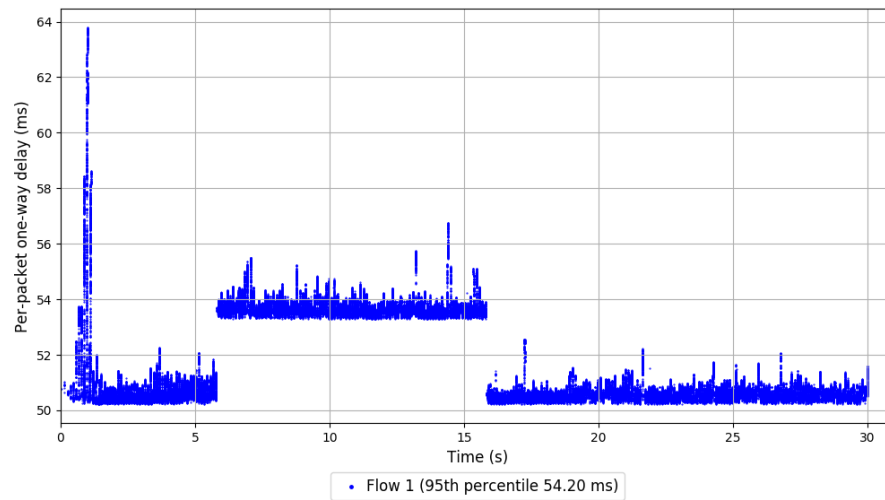
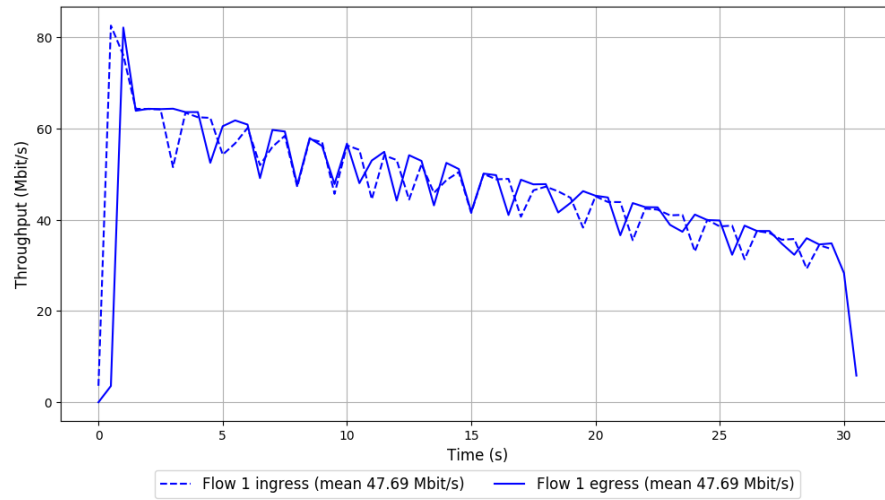


Run 7: Statistics of TCP Vegas

Start at: 2018-07-12 00:30:36
End at: 2018-07-12 00:31:06
Local clock offset: 0.183 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-07-12 03:25:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.69 Mbit/s
95th percentile per-packet one-way delay: 54.195 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.69 Mbit/s
95th percentile per-packet one-way delay: 54.195 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

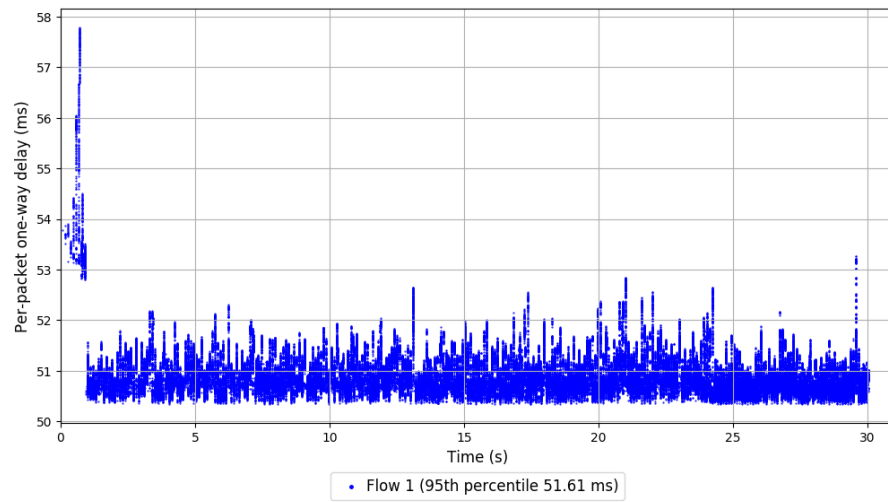
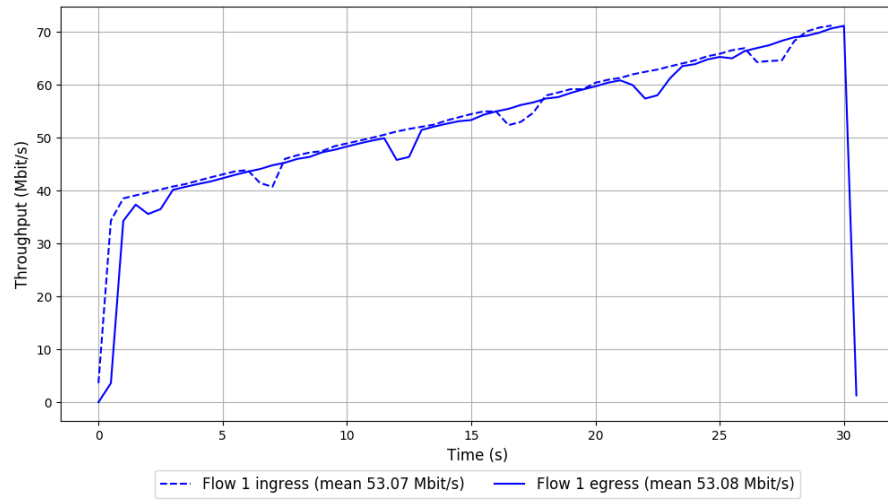


Run 8: Statistics of TCP Vegas

Start at: 2018-07-12 00:52:31
End at: 2018-07-12 00:53:01
Local clock offset: 0.031 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-07-12 03:25:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.08 Mbit/s
95th percentile per-packet one-way delay: 51.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.08 Mbit/s
95th percentile per-packet one-way delay: 51.614 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-12 01:13:59

End at: 2018-07-12 01:14:29

Local clock offset: -0.3 ms

Remote clock offset: 0.091 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 54.676 ms

Loss rate: 0.00%

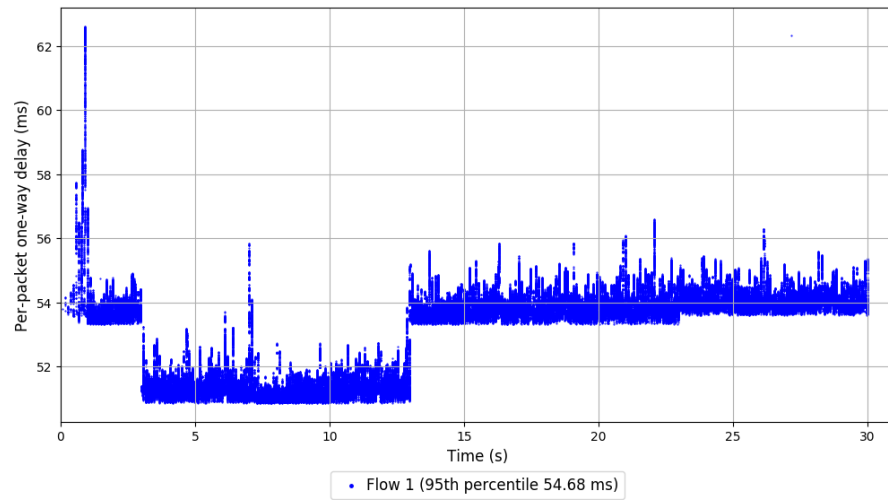
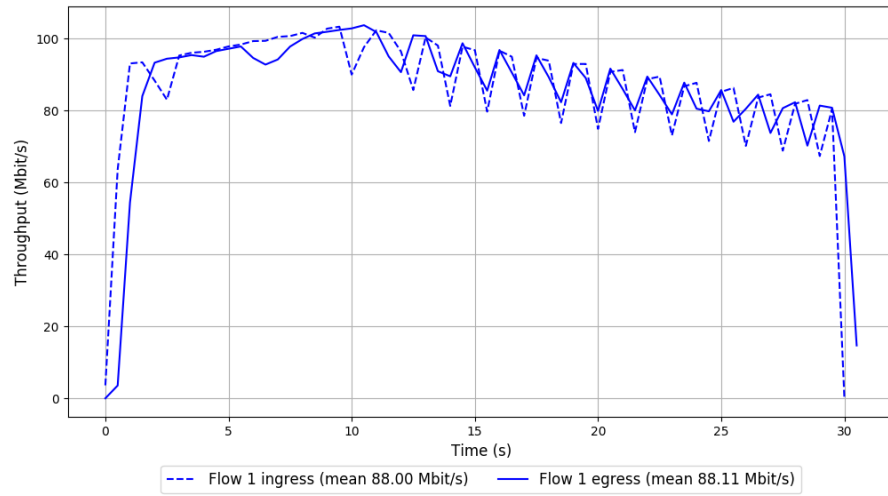
-- Flow 1:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 54.676 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-12 01:35:57

End at: 2018-07-12 01:36:27

Local clock offset: -0.195 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-07-12 03:25:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 54.094 ms

Loss rate: 0.00%

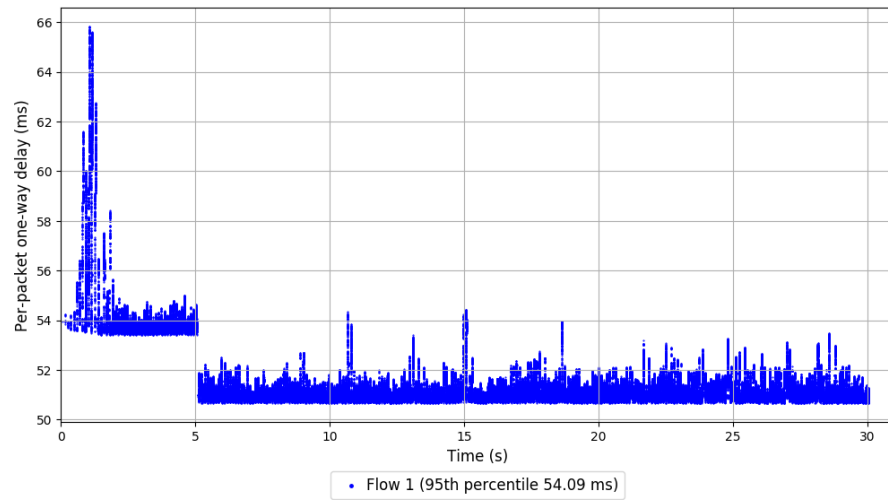
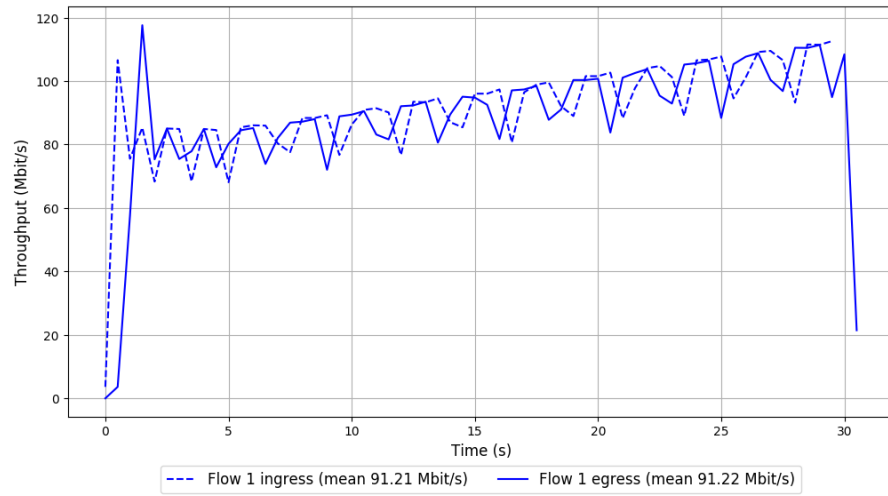
-- Flow 1:

Average throughput: 91.22 Mbit/s

95th percentile per-packet one-way delay: 54.094 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-11 22:08:20

End at: 2018-07-11 22:08:50

Local clock offset: -0.349 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-07-12 03:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.76 Mbit/s

95th percentile per-packet one-way delay: 73.356 ms

Loss rate: 0.00%

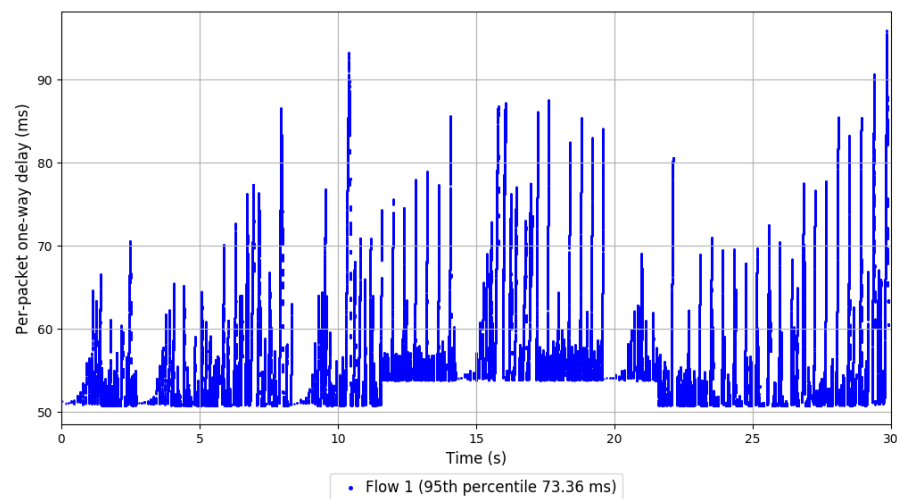
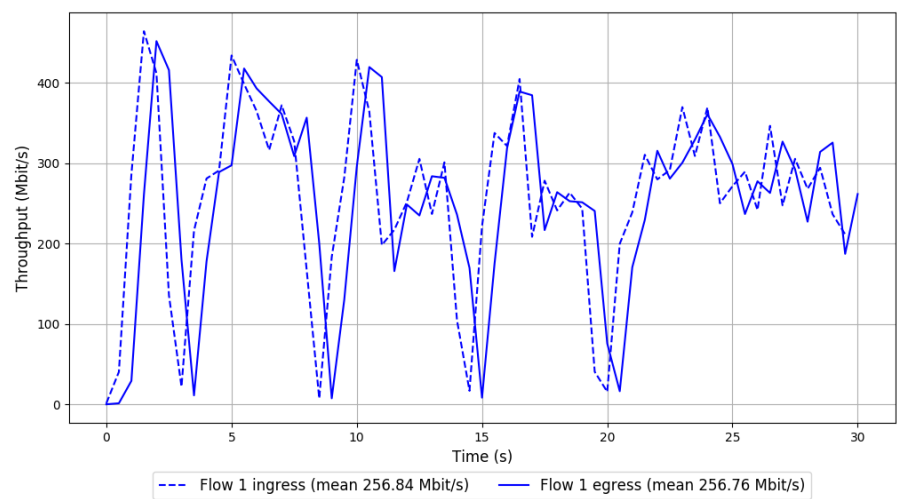
-- Flow 1:

Average throughput: 256.76 Mbit/s

95th percentile per-packet one-way delay: 73.356 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

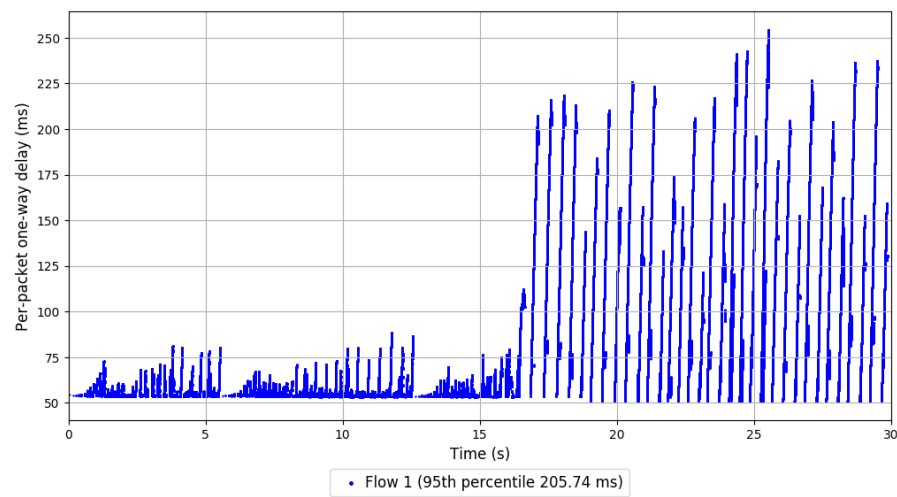
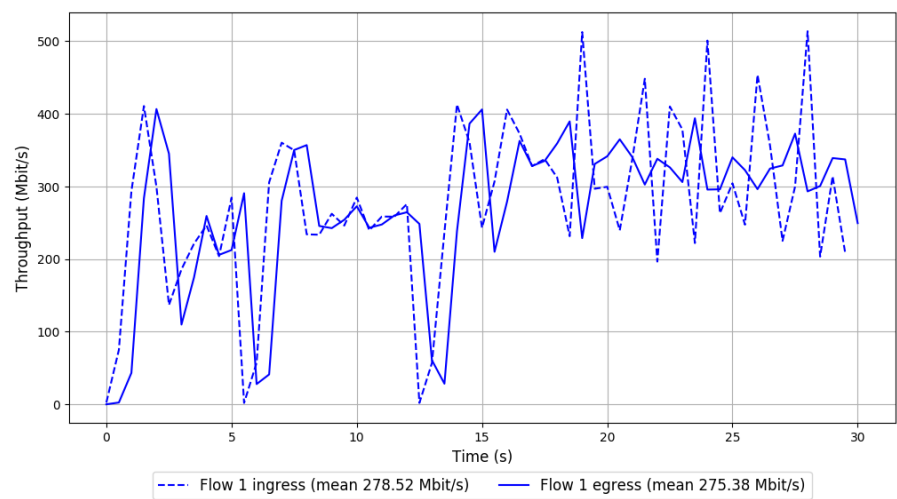


Run 2: Statistics of Verus

Start at: 2018-07-11 22:29:53
End at: 2018-07-11 22:30:23
Local clock offset: -0.214 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-07-12 03:27:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 275.38 Mbit/s
95th percentile per-packet one-way delay: 205.735 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 275.38 Mbit/s
95th percentile per-packet one-way delay: 205.735 ms
Loss rate: 0.87%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-11 22:51:43

End at: 2018-07-11 22:52:13

Local clock offset: -0.18 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-07-12 03:27:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.75 Mbit/s

95th percentile per-packet one-way delay: 88.377 ms

Loss rate: 0.05%

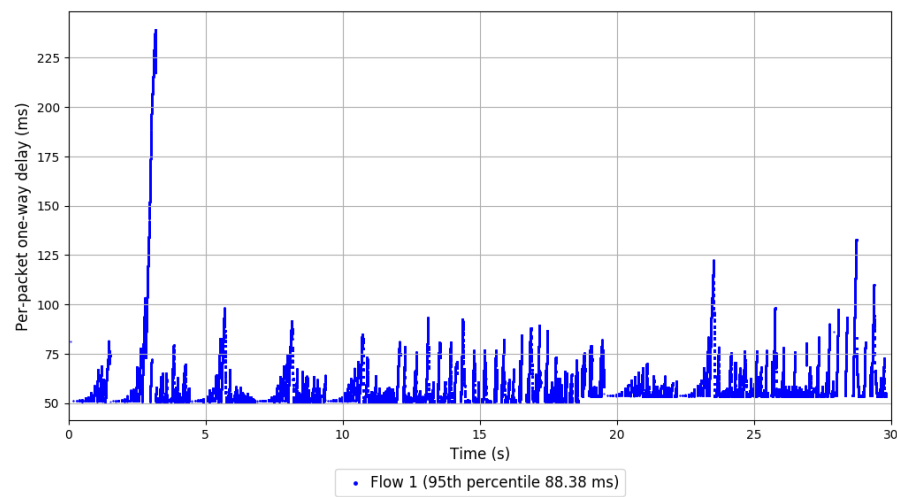
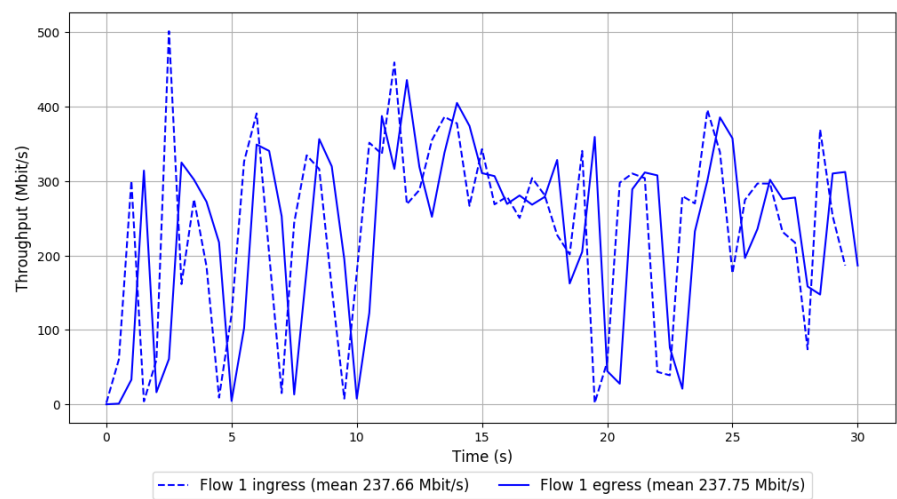
-- Flow 1:

Average throughput: 237.75 Mbit/s

95th percentile per-packet one-way delay: 88.377 ms

Loss rate: 0.05%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-11 23:13:39

End at: 2018-07-11 23:14:09

Local clock offset: -0.306 ms

Remote clock offset: -1.34 ms

Below is generated by plot.py at 2018-07-12 03:27:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.56 Mbit/s

95th percentile per-packet one-way delay: 98.616 ms

Loss rate: 0.02%

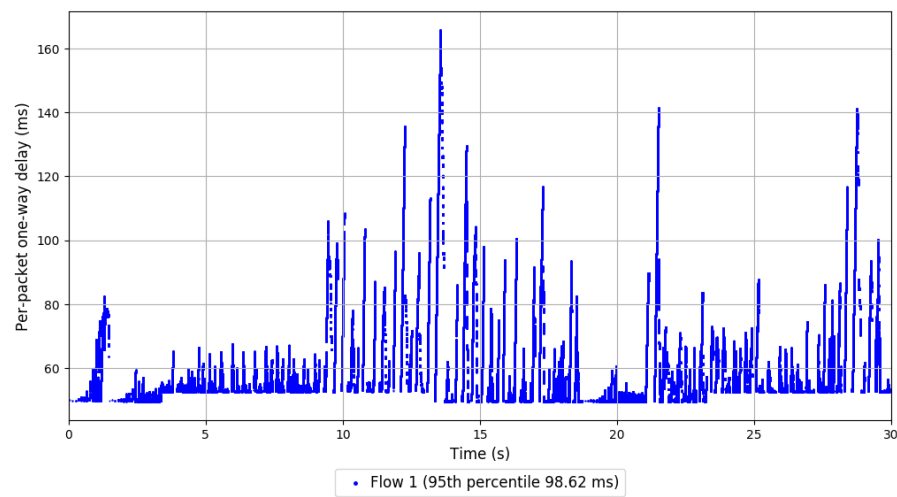
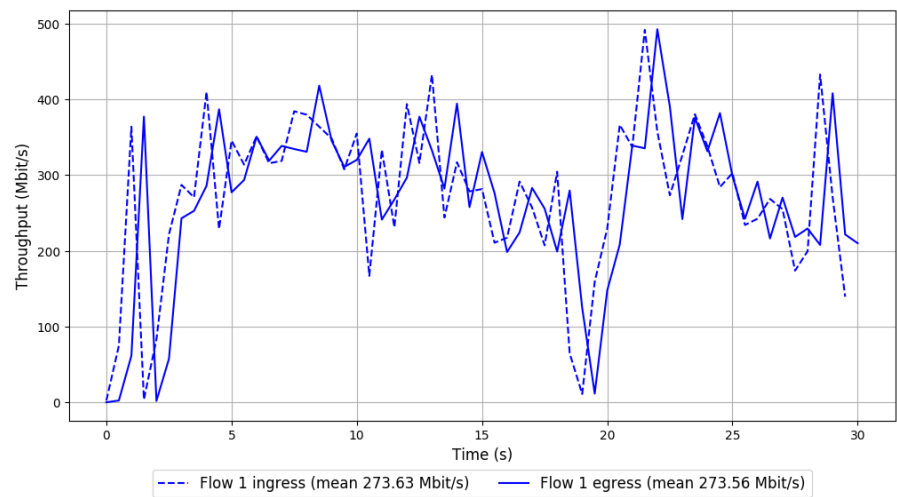
-- Flow 1:

Average throughput: 273.56 Mbit/s

95th percentile per-packet one-way delay: 98.616 ms

Loss rate: 0.02%

Run 4: Report of Verus — Data Link

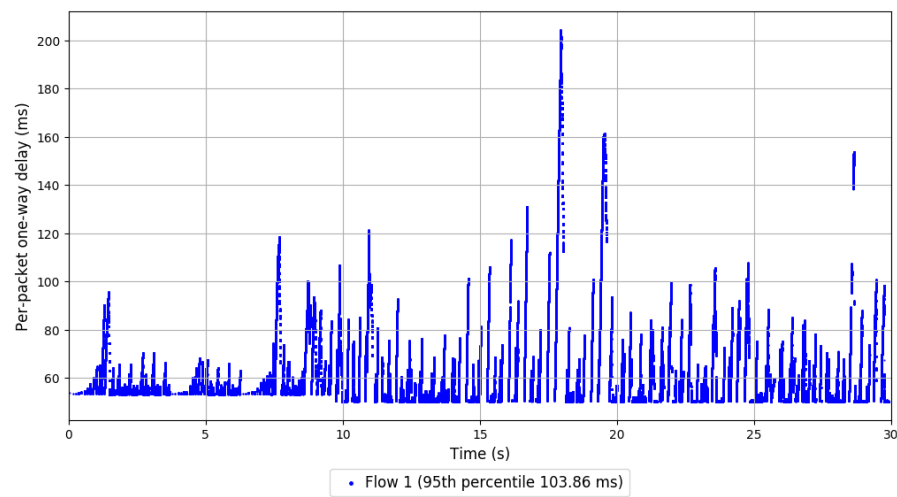
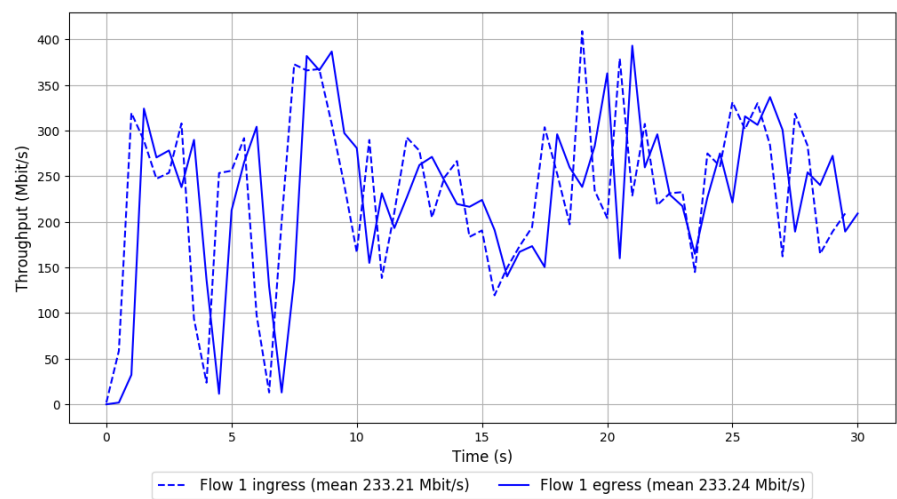


Run 5: Statistics of Verus

Start at: 2018-07-11 23:35:42
End at: 2018-07-11 23:36:12
Local clock offset: 0.012 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-07-12 03:27:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.24 Mbit/s
95th percentile per-packet one-way delay: 103.856 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.24 Mbit/s
95th percentile per-packet one-way delay: 103.856 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

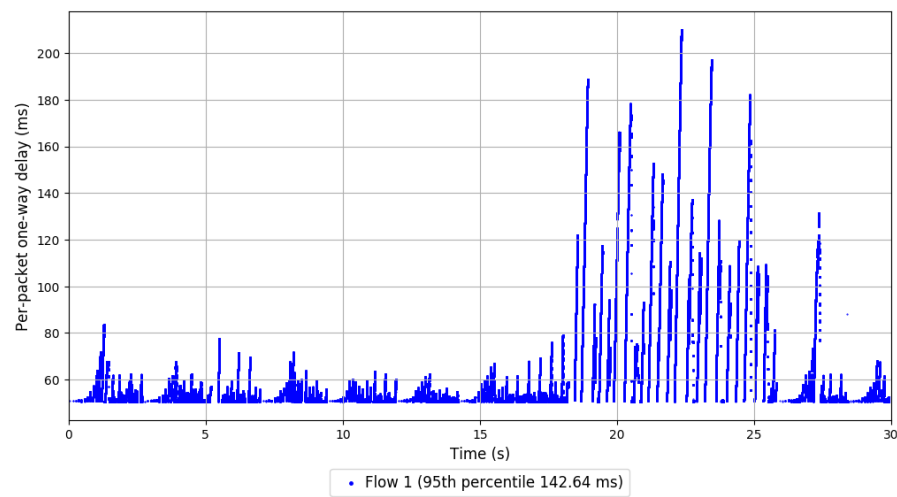
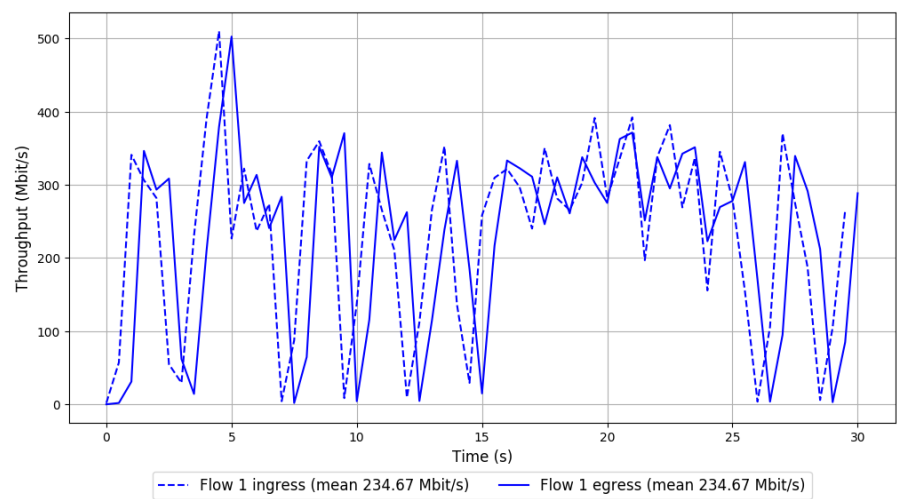


Run 6: Statistics of Verus

Start at: 2018-07-11 23:57:51
End at: 2018-07-11 23:58:21
Local clock offset: -0.163 ms
Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-07-12 03:27:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.67 Mbit/s
95th percentile per-packet one-way delay: 142.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.67 Mbit/s
95th percentile per-packet one-way delay: 142.636 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

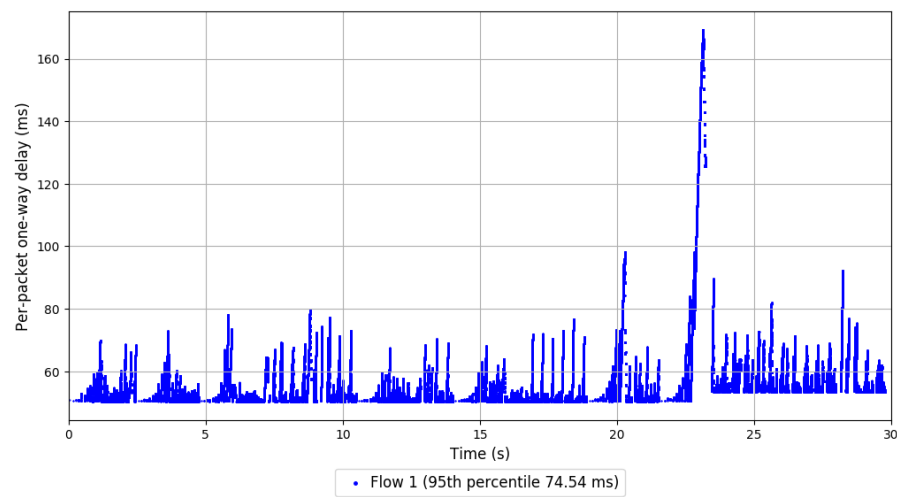
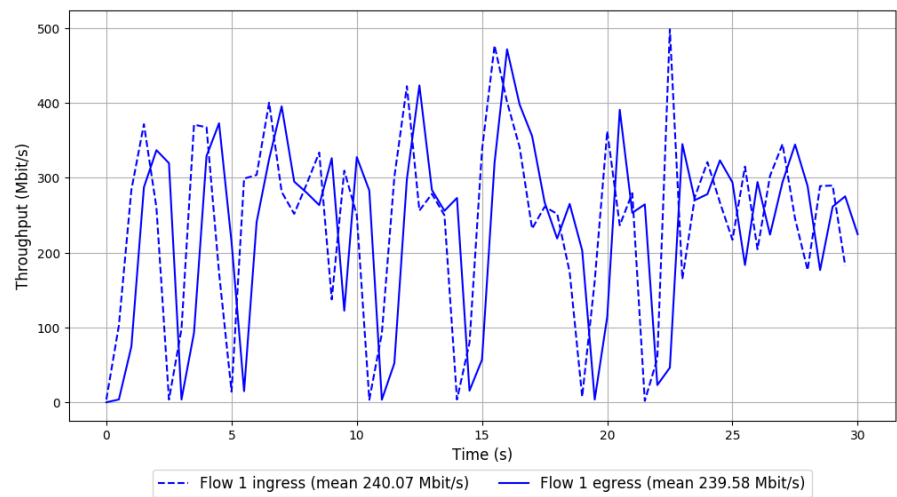


Run 7: Statistics of Verus

Start at: 2018-07-12 00:19:39
End at: 2018-07-12 00:20:09
Local clock offset: -0.101 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2018-07-12 03:28:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.58 Mbit/s
95th percentile per-packet one-way delay: 74.543 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 239.58 Mbit/s
95th percentile per-packet one-way delay: 74.543 ms
Loss rate: 0.19%

Run 7: Report of Verus — Data Link

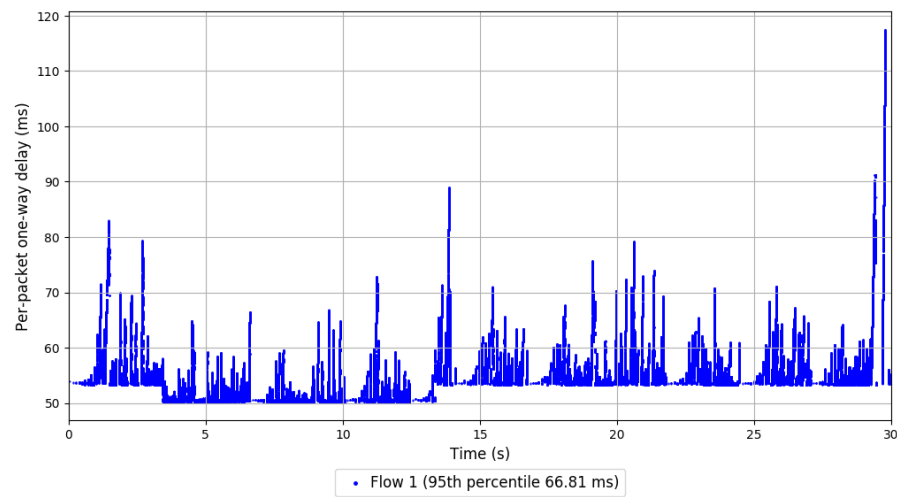
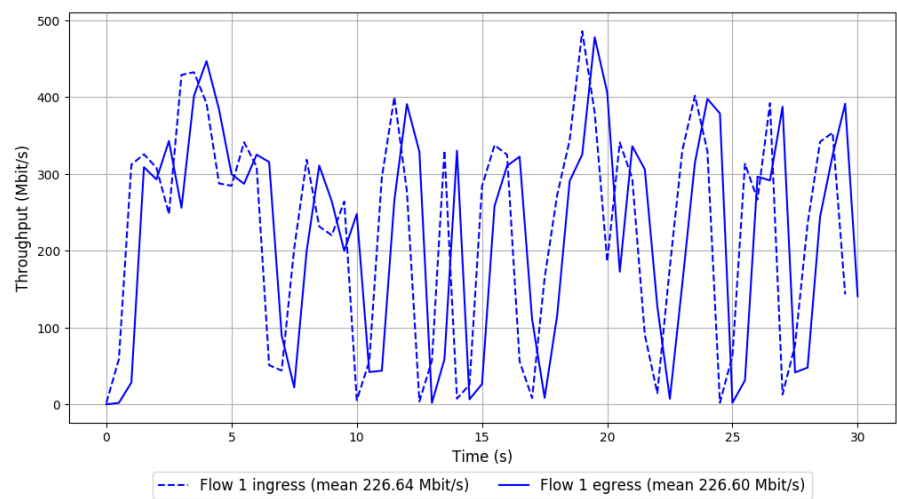


Run 8: Statistics of Verus

Start at: 2018-07-12 00:41:59
End at: 2018-07-12 00:42:29
Local clock offset: 0.119 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-07-12 03:29:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 226.60 Mbit/s
95th percentile per-packet one-way delay: 66.813 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 226.60 Mbit/s
95th percentile per-packet one-way delay: 66.813 ms
Loss rate: 0.02%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-12 01:03:30

End at: 2018-07-12 01:04:00

Local clock offset: -0.158 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-07-12 03:30:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.27 Mbit/s

95th percentile per-packet one-way delay: 184.160 ms

Loss rate: 0.53%

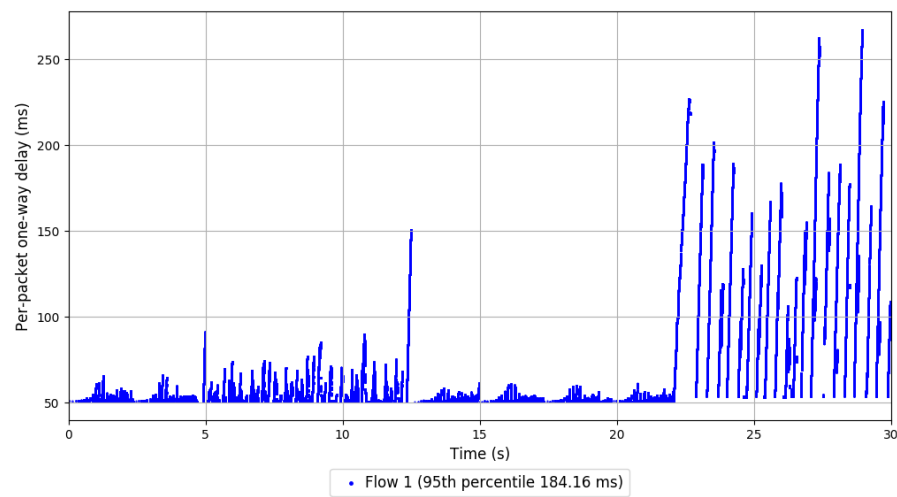
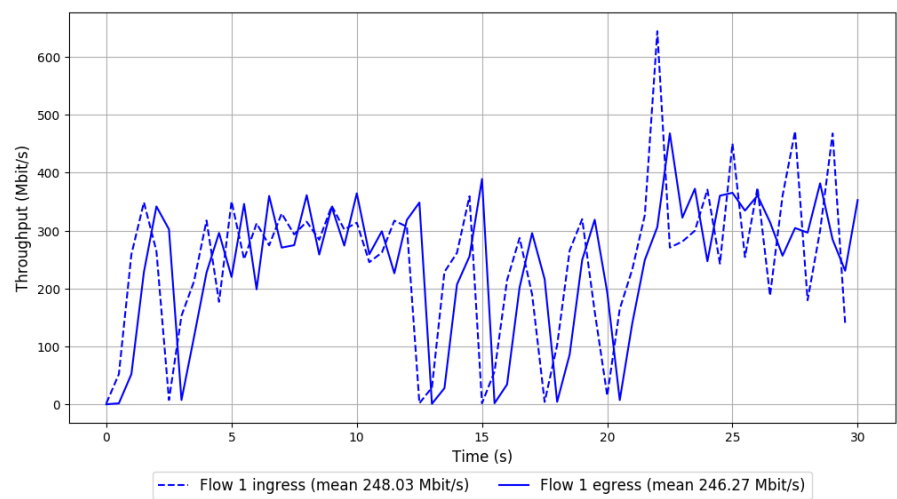
-- Flow 1:

Average throughput: 246.27 Mbit/s

95th percentile per-packet one-way delay: 184.160 ms

Loss rate: 0.53%

Run 9: Report of Verus — Data Link

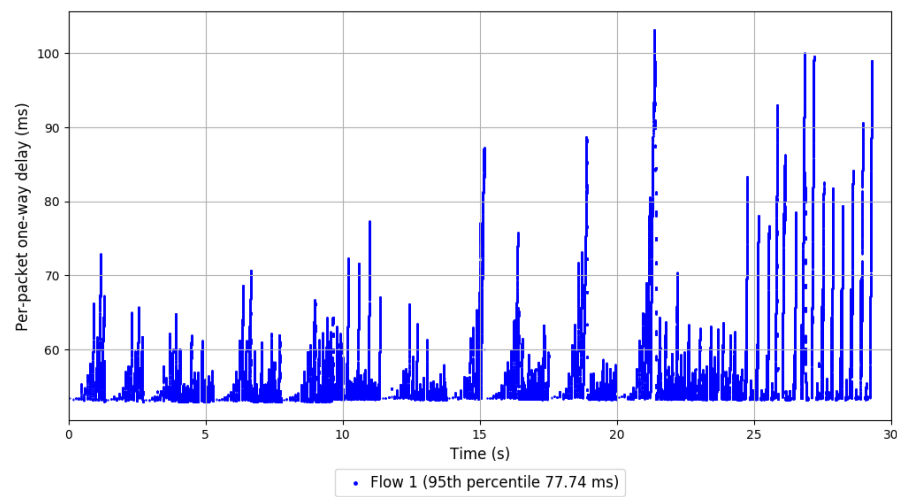
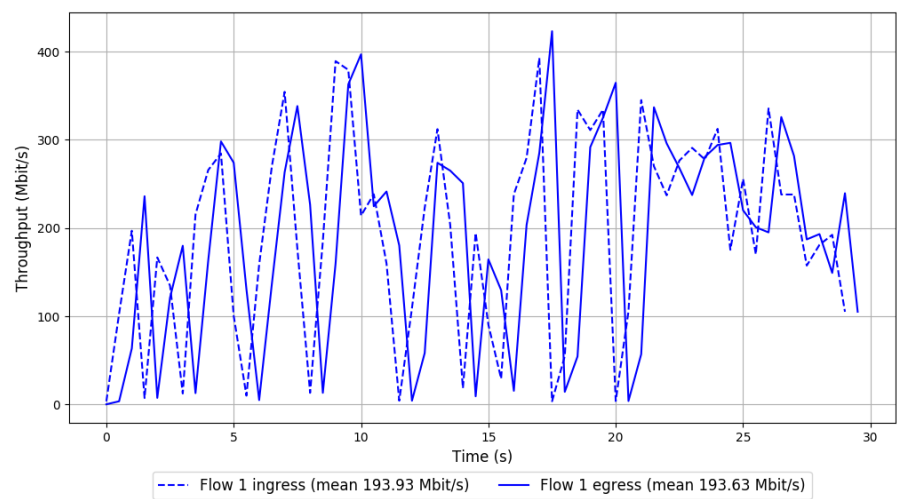


Run 10: Statistics of Verus

Start at: 2018-07-12 01:25:23
End at: 2018-07-12 01:25:53
Local clock offset: -0.061 ms
Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-12 03:30:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 193.63 Mbit/s
95th percentile per-packet one-way delay: 77.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.63 Mbit/s
95th percentile per-packet one-way delay: 77.741 ms
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-11 22:09:42

End at: 2018-07-11 22:10:12

Local clock offset: -0.149 ms

Remote clock offset: -0.49 ms

Below is generated by plot.py at 2018-07-12 03:33:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.10 Mbit/s

95th percentile per-packet one-way delay: 53.419 ms

Loss rate: 0.01%

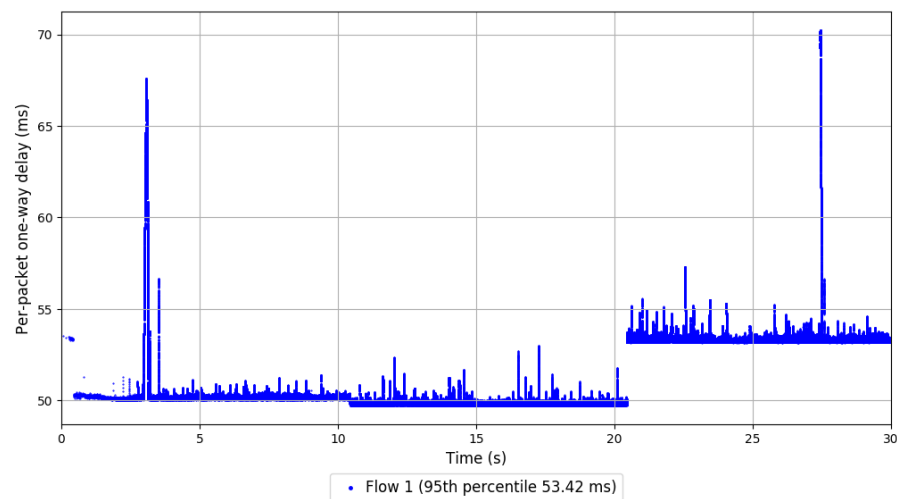
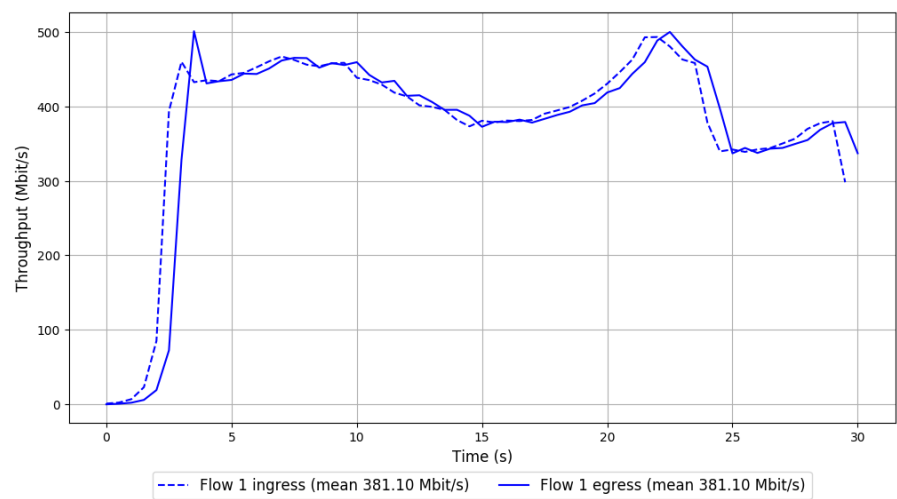
-- Flow 1:

Average throughput: 381.10 Mbit/s

95th percentile per-packet one-way delay: 53.419 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-11 22:31:15

End at: 2018-07-11 22:31:45

Local clock offset: -0.142 ms

Remote clock offset: 0.159 ms

Below is generated by plot.py at 2018-07-12 03:33:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.02 Mbit/s

95th percentile per-packet one-way delay: 53.268 ms

Loss rate: 0.00%

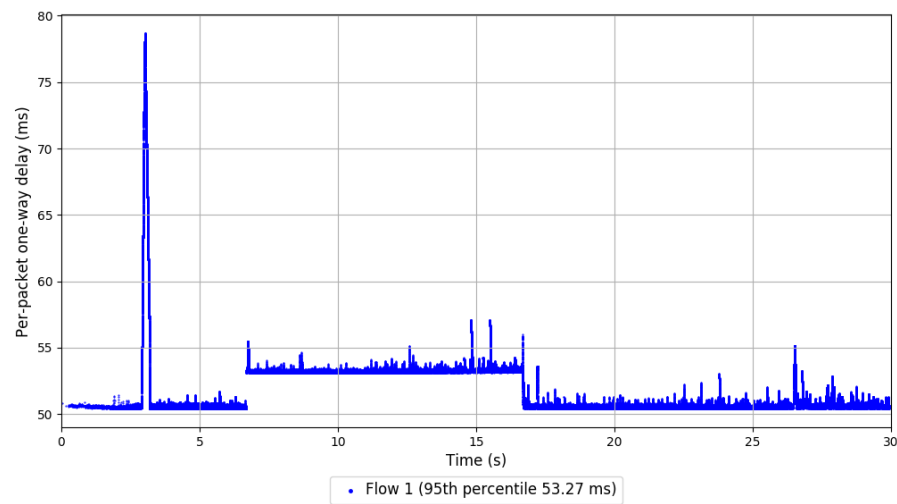
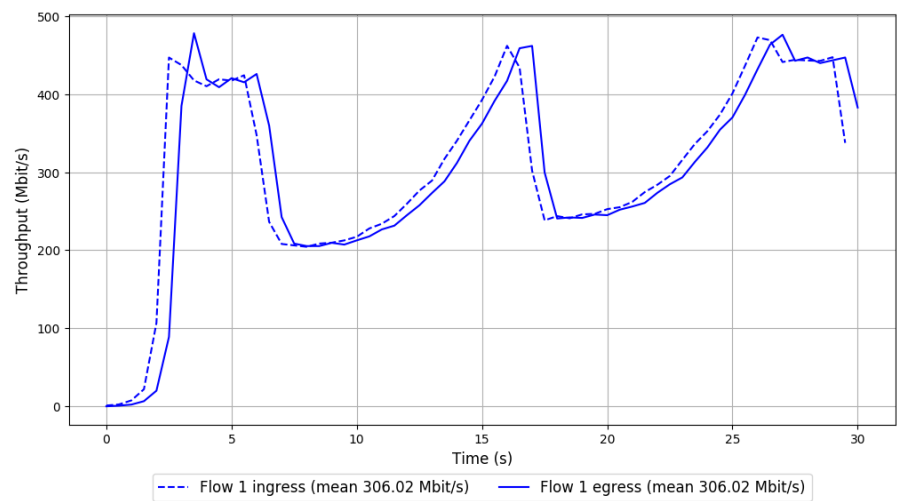
-- Flow 1:

Average throughput: 306.02 Mbit/s

95th percentile per-packet one-way delay: 53.268 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-11 22:53:03

End at: 2018-07-11 22:53:33

Local clock offset: 0.059 ms

Remote clock offset: 1.012 ms

Below is generated by plot.py at 2018-07-12 03:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.55 Mbit/s

95th percentile per-packet one-way delay: 51.741 ms

Loss rate: 0.00%

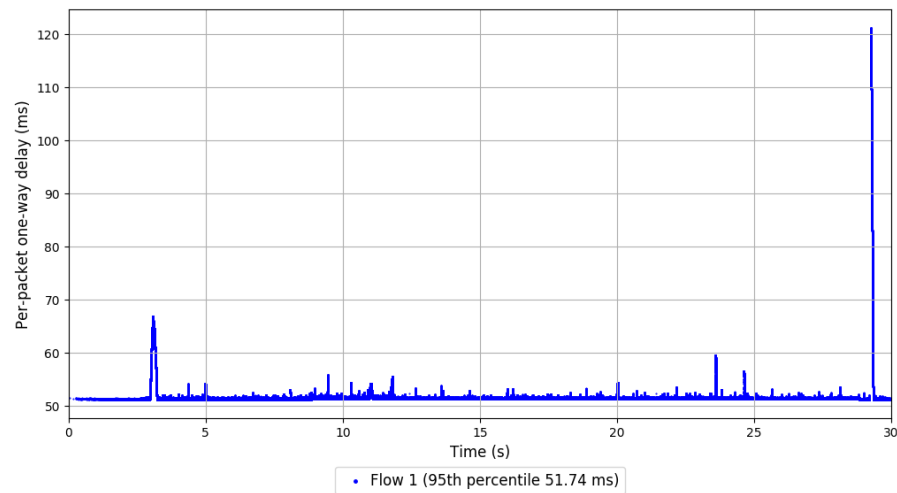
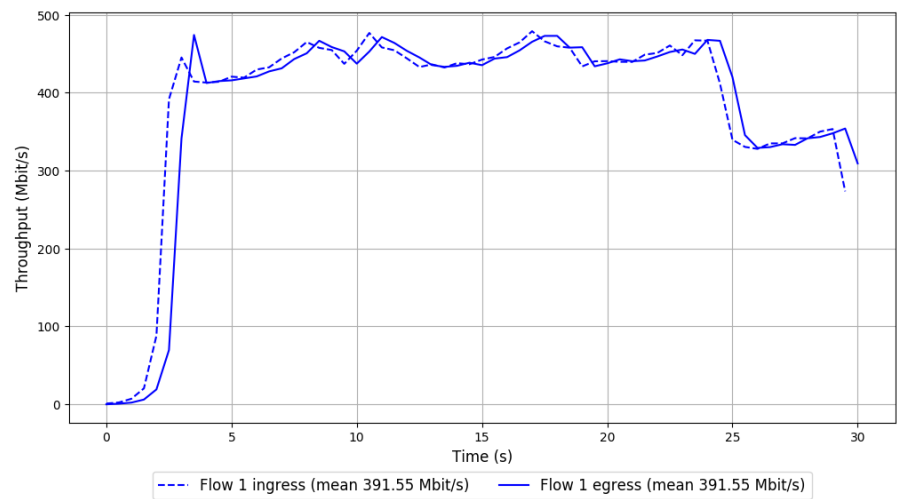
-- Flow 1:

Average throughput: 391.55 Mbit/s

95th percentile per-packet one-way delay: 51.741 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-11 23:15:01

End at: 2018-07-11 23:15:31

Local clock offset: -0.116 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-07-12 03:34:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.89 Mbit/s

95th percentile per-packet one-way delay: 50.939 ms

Loss rate: 0.00%

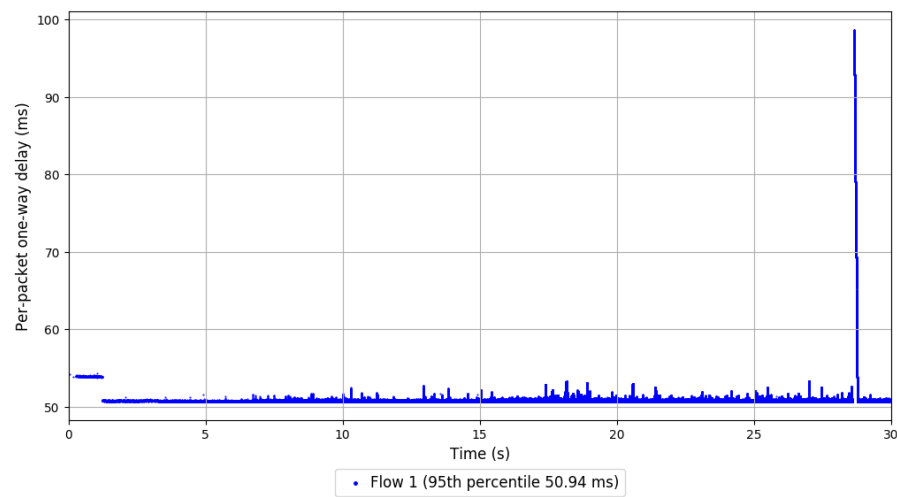
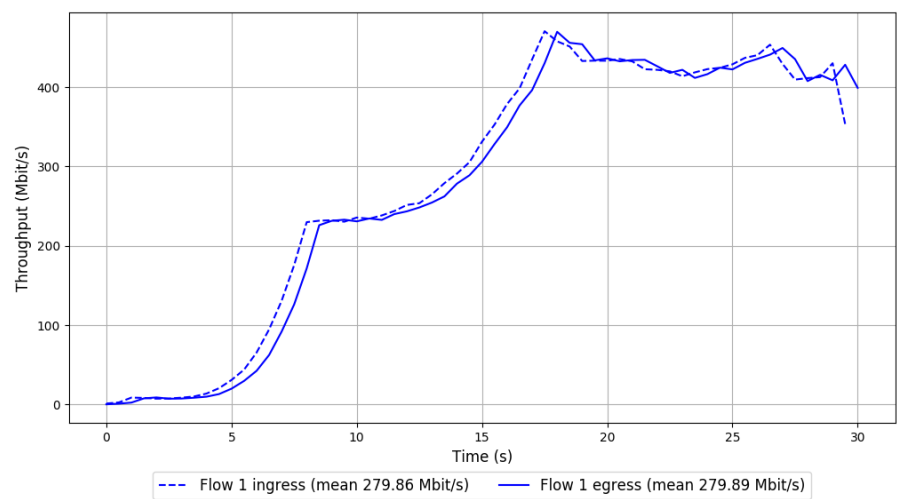
-- Flow 1:

Average throughput: 279.89 Mbit/s

95th percentile per-packet one-way delay: 50.939 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-11 23:37:02

End at: 2018-07-11 23:37:32

Local clock offset: 0.055 ms

Remote clock offset: 1.223 ms

Below is generated by plot.py at 2018-07-12 03:34:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.80 Mbit/s

95th percentile per-packet one-way delay: 54.820 ms

Loss rate: 0.01%

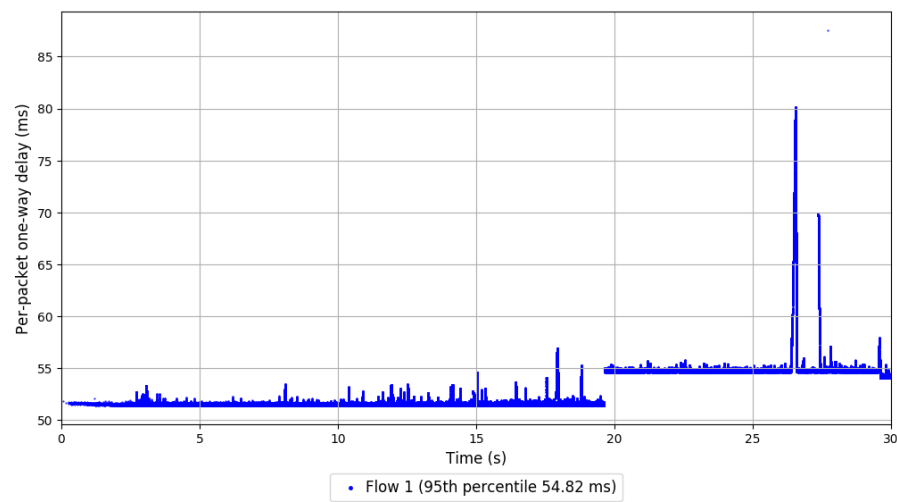
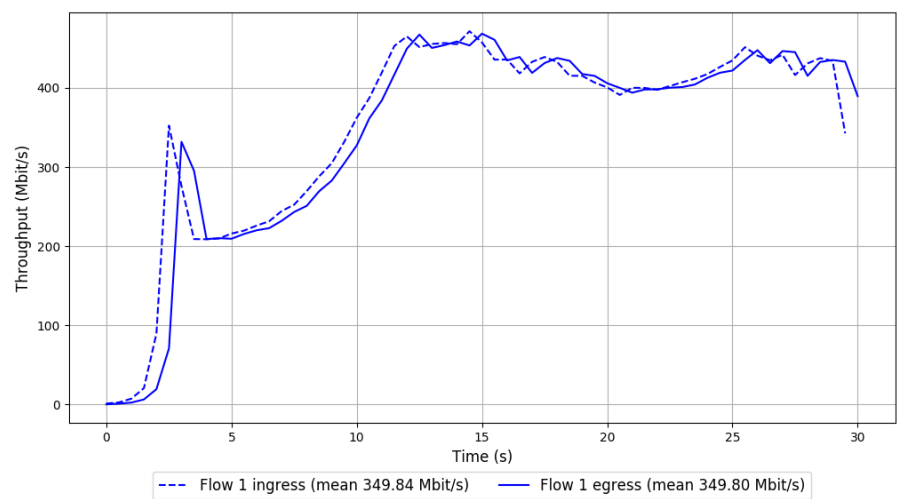
-- Flow 1:

Average throughput: 349.80 Mbit/s

95th percentile per-packet one-way delay: 54.820 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

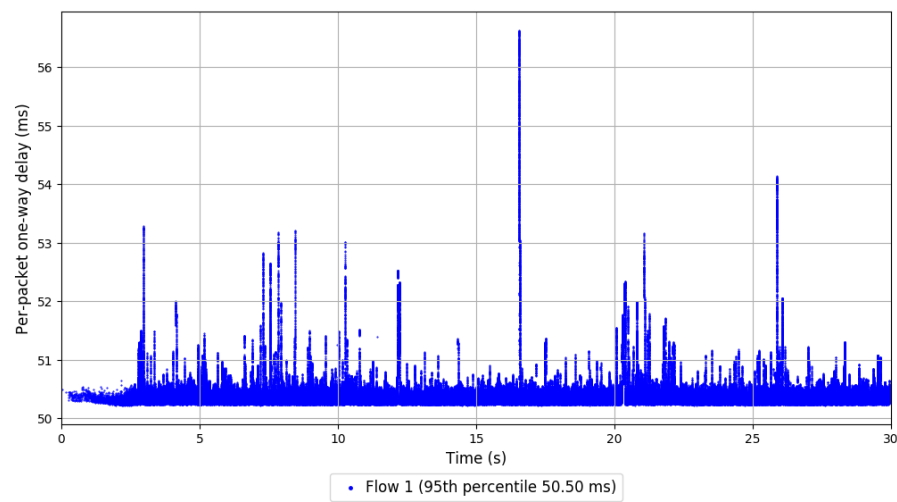
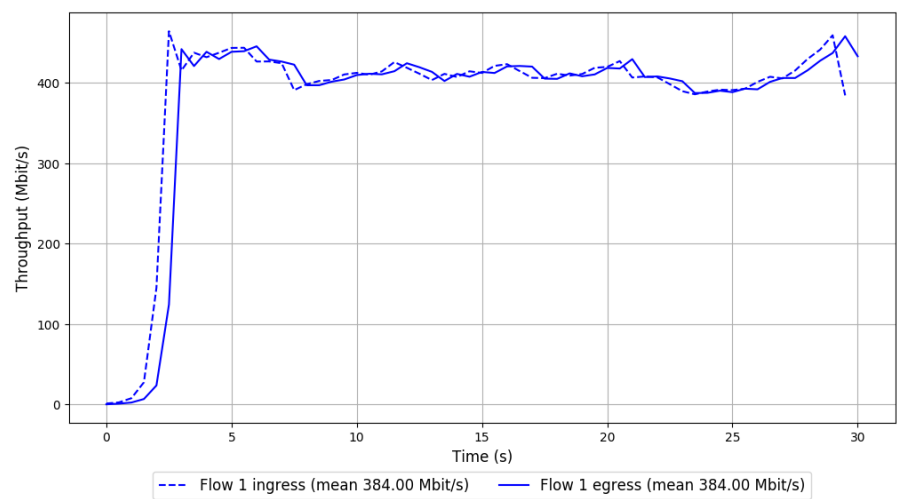


Run 6: Statistics of PCC-Vivace

Start at: 2018-07-11 23:59:11
End at: 2018-07-11 23:59:41
Local clock offset: 0.049 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-07-12 03:35:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 384.00 Mbit/s
95th percentile per-packet one-way delay: 50.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 384.00 Mbit/s
95th percentile per-packet one-way delay: 50.504 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-12 00:20:58

End at: 2018-07-12 00:21:28

Local clock offset: -0.264 ms

Remote clock offset: 0.111 ms

Below is generated by plot.py at 2018-07-12 03:36:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.27 Mbit/s

95th percentile per-packet one-way delay: 54.686 ms

Loss rate: 0.01%

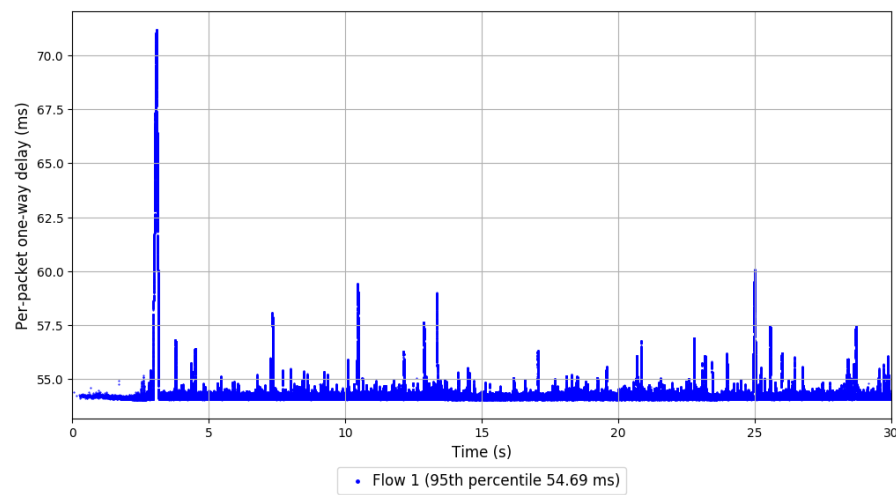
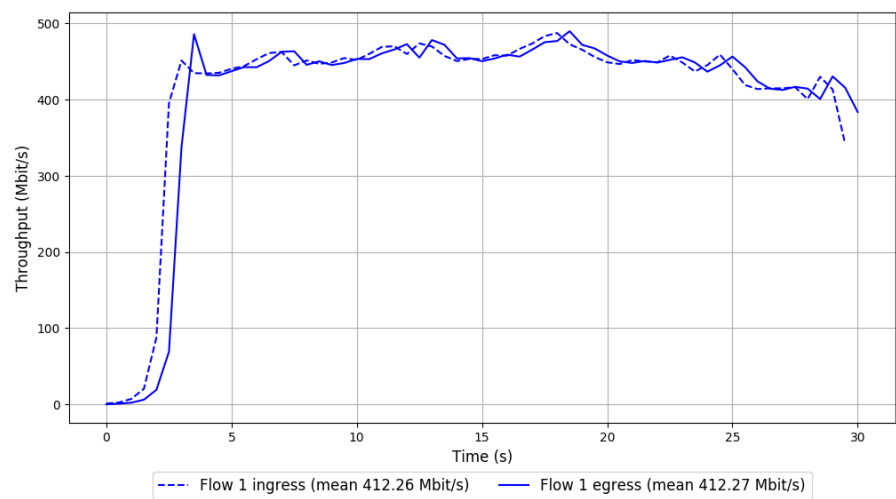
-- Flow 1:

Average throughput: 412.27 Mbit/s

95th percentile per-packet one-way delay: 54.686 ms

Loss rate: 0.01%

Run 7: Report of PCC-Vivace — Data Link

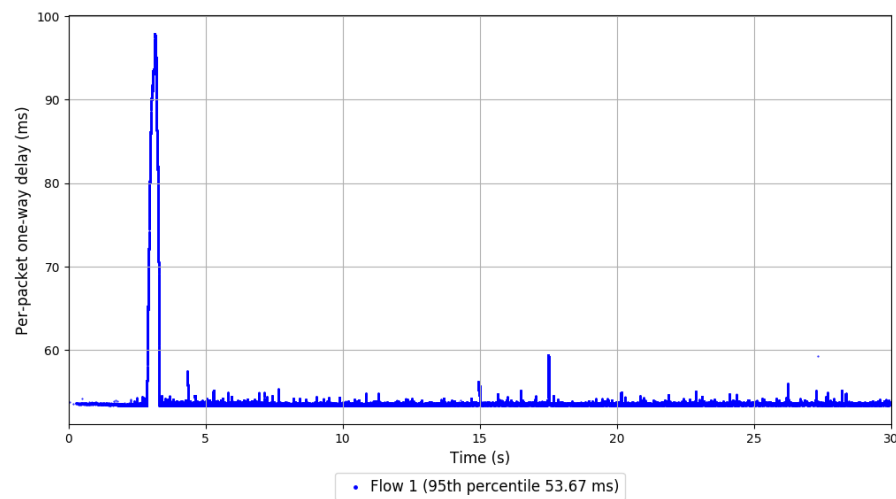
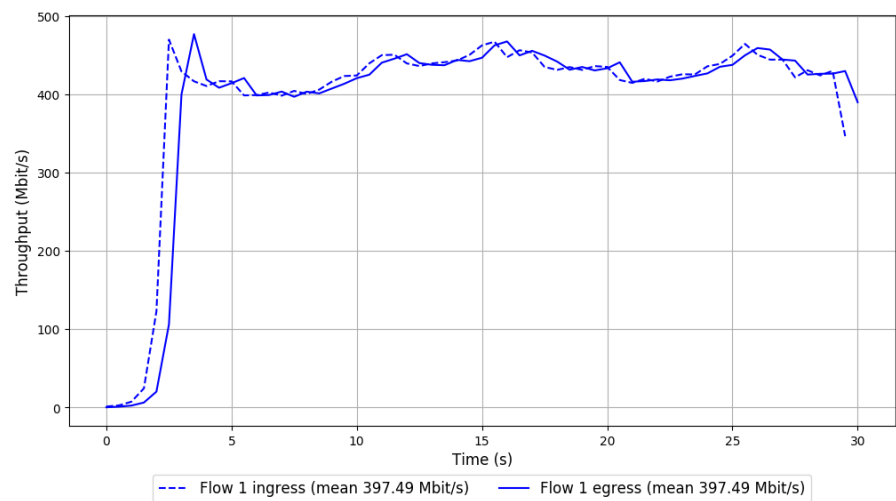


Run 8: Statistics of PCC-Vivace

Start at: 2018-07-12 00:43:18
End at: 2018-07-12 00:43:48
Local clock offset: -0.113 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-07-12 03:36:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 397.49 Mbit/s
95th percentile per-packet one-way delay: 53.667 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 397.49 Mbit/s
95th percentile per-packet one-way delay: 53.667 ms
Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-12 01:04:50

End at: 2018-07-12 01:05:20

Local clock offset: -0.062 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-07-12 03:36:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.48 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.00%

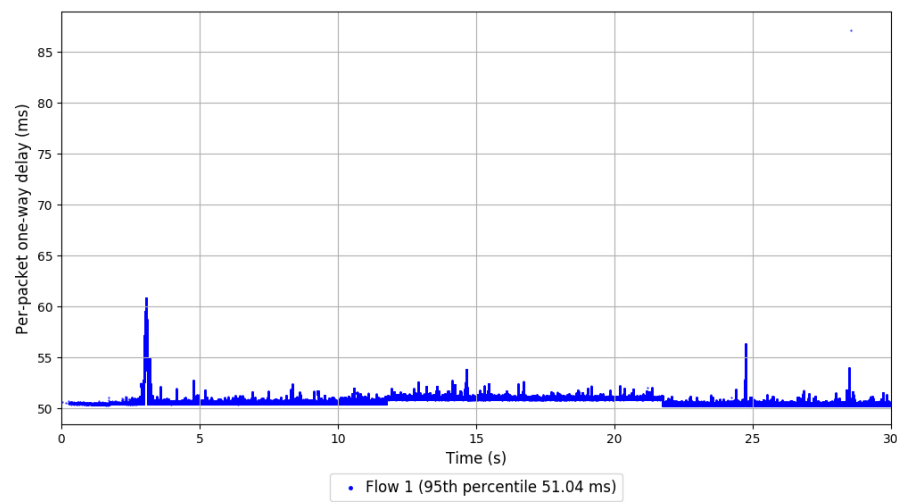
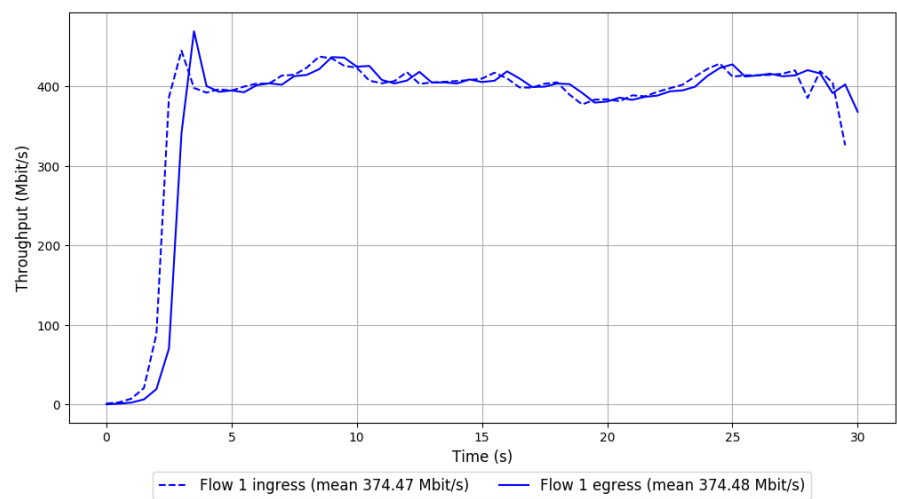
-- Flow 1:

Average throughput: 374.48 Mbit/s

95th percentile per-packet one-way delay: 51.041 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-12 01:26:40

End at: 2018-07-12 01:27:10

Local clock offset: 0.153 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-07-12 03:36:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.43 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.01%

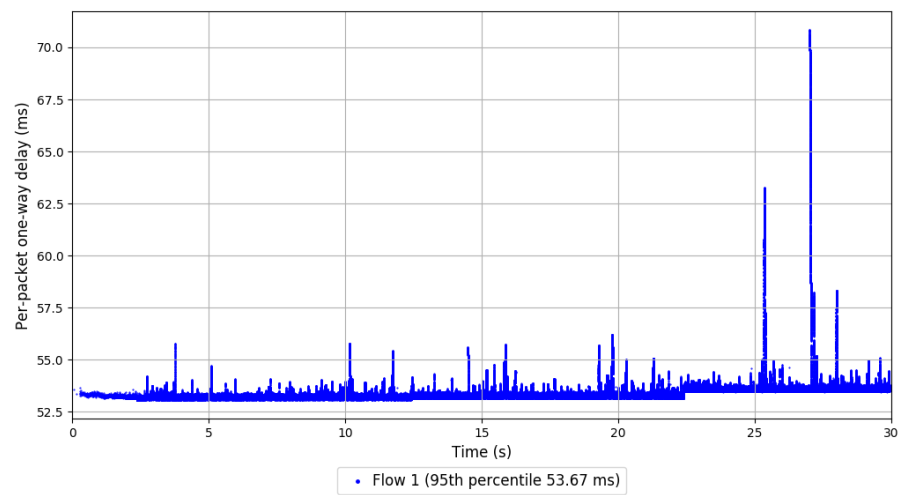
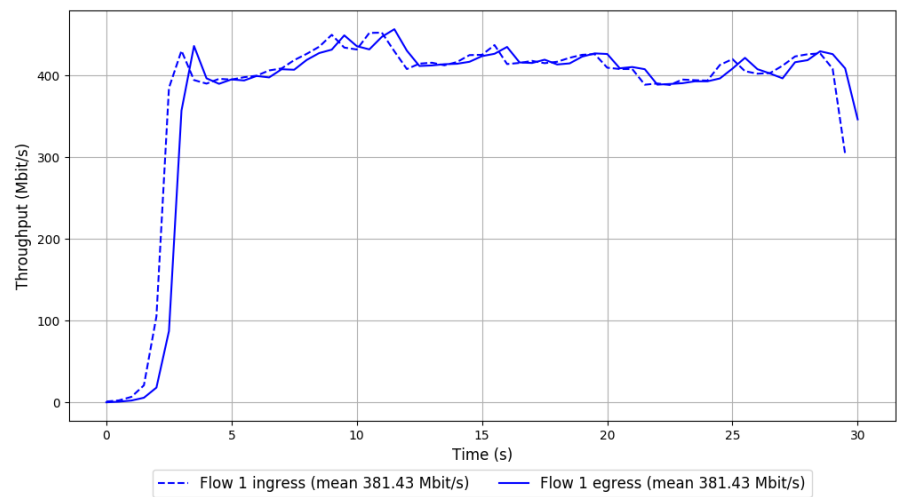
-- Flow 1:

Average throughput: 381.43 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.01%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-11 22:19:53

End at: 2018-07-11 22:20:23

Local clock offset: 0.112 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2018-07-12 03:36:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 50.528 ms

Loss rate: 0.00%

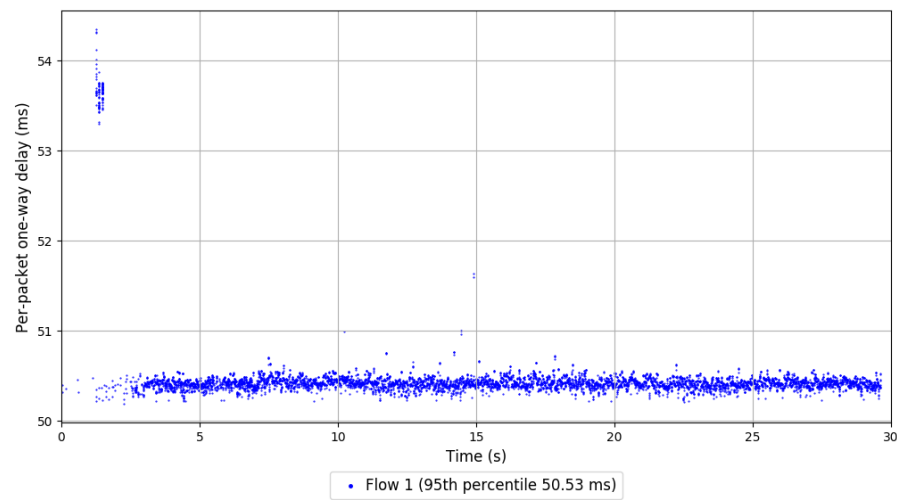
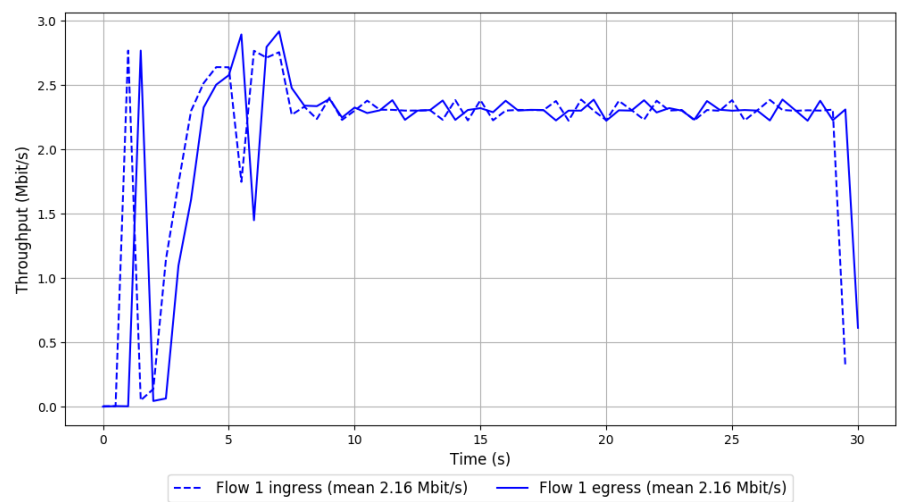
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 50.528 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-11 22:41:29

End at: 2018-07-11 22:41:59

Local clock offset: -0.089 ms

Remote clock offset: 1.154 ms

Below is generated by plot.py at 2018-07-12 03:36:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 55.216 ms

Loss rate: 0.00%

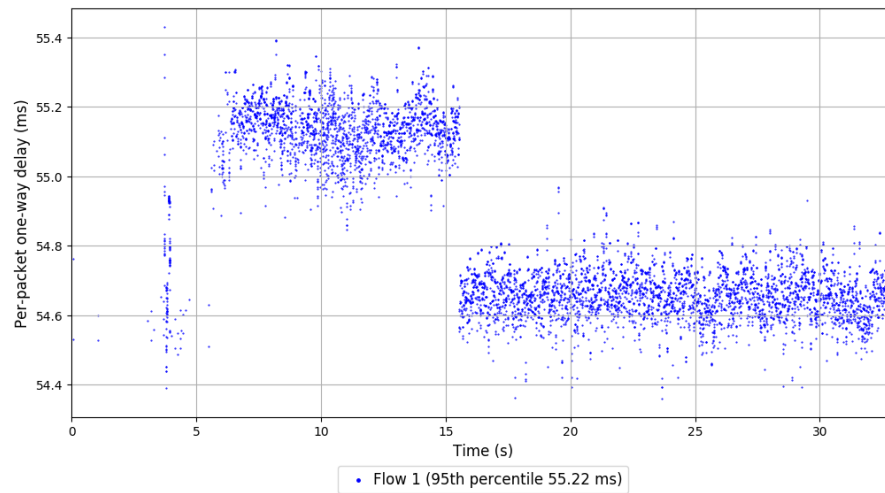
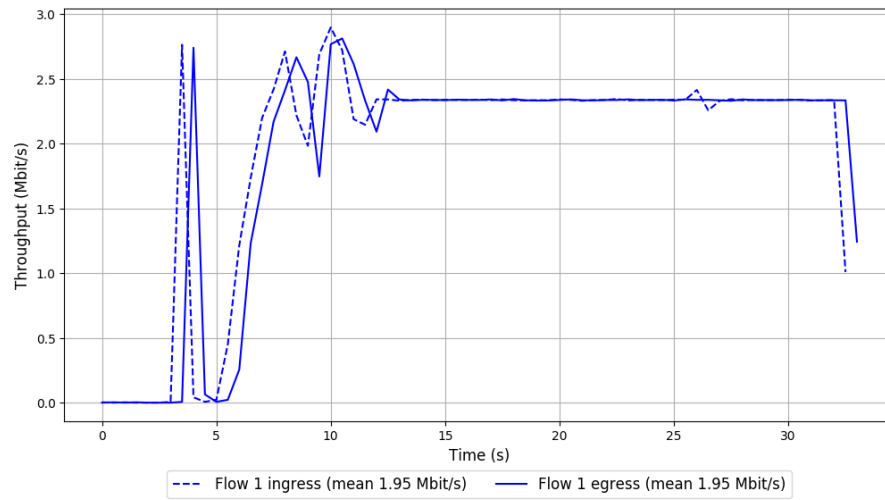
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 55.216 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

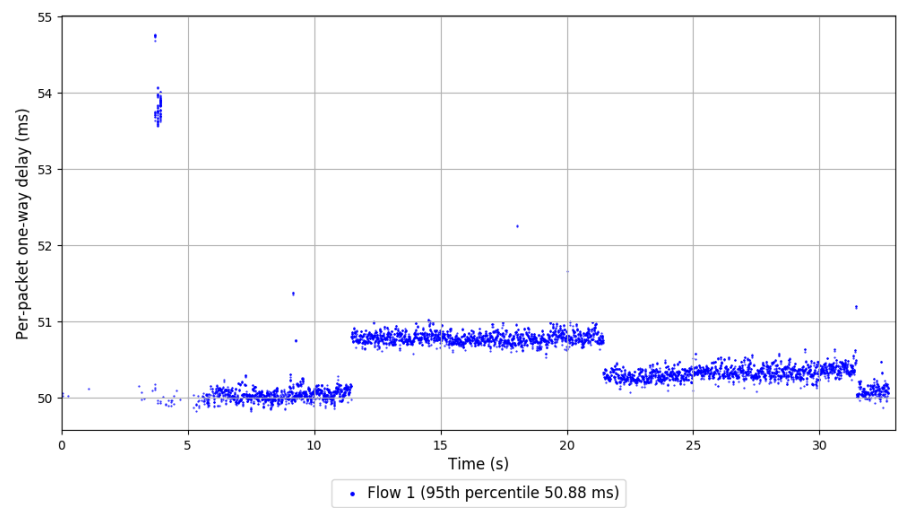
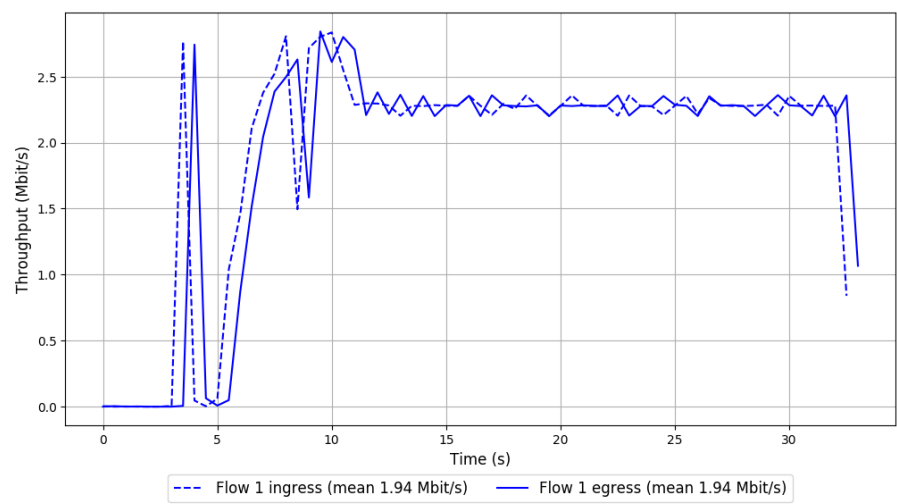


Run 3: Statistics of WebRTC media

Start at: 2018-07-11 23:03:43
End at: 2018-07-11 23:04:13
Local clock offset: 0.058 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-07-12 03:36:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 50.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 50.881 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

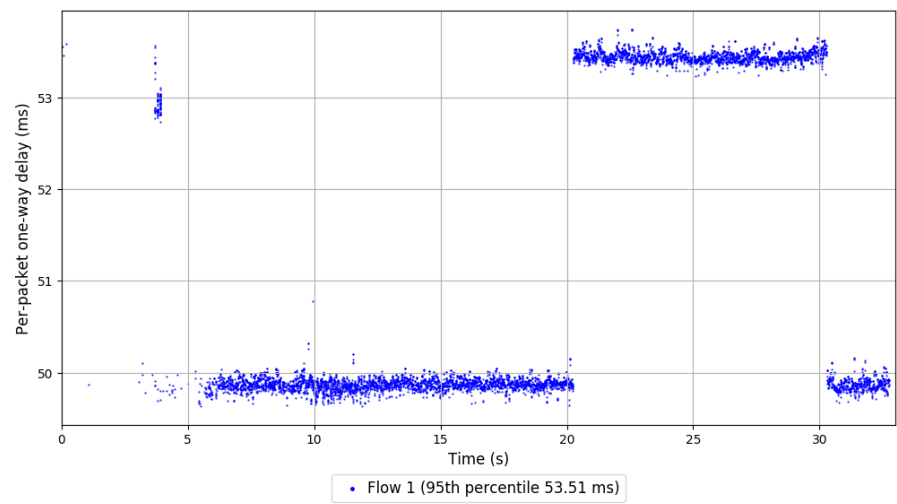
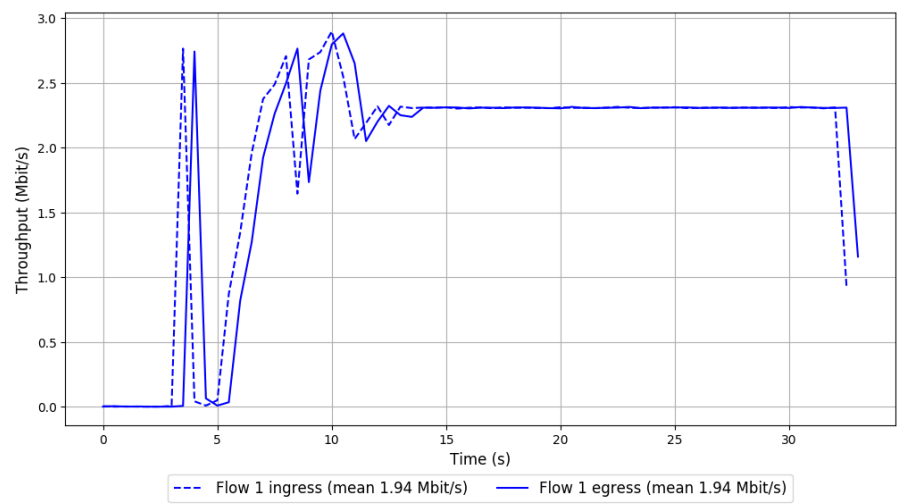


Run 4: Statistics of WebRTC media

Start at: 2018-07-11 23:25:35
End at: 2018-07-11 23:26:05
Local clock offset: -0.044 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-07-12 03:36:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-11 23:47:43

End at: 2018-07-11 23:48:13

Local clock offset: 0.033 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-07-12 03:36:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 53.934 ms

Loss rate: 0.00%

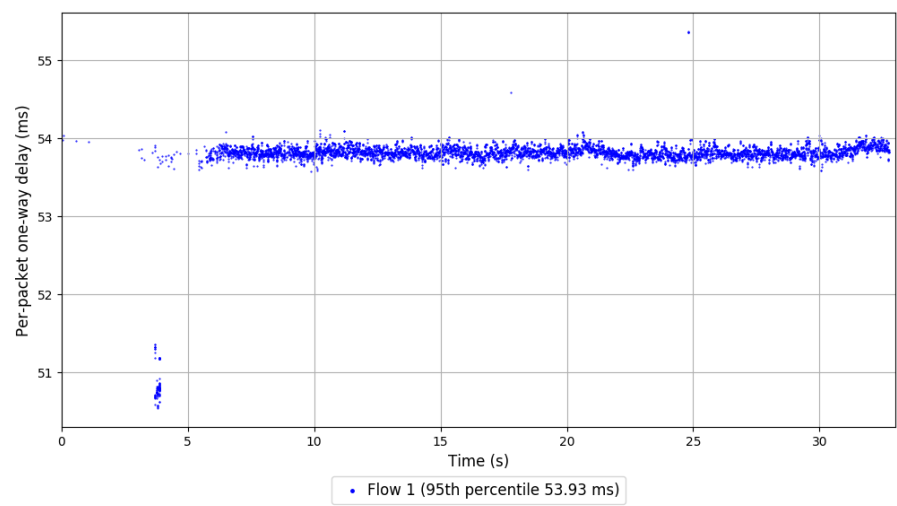
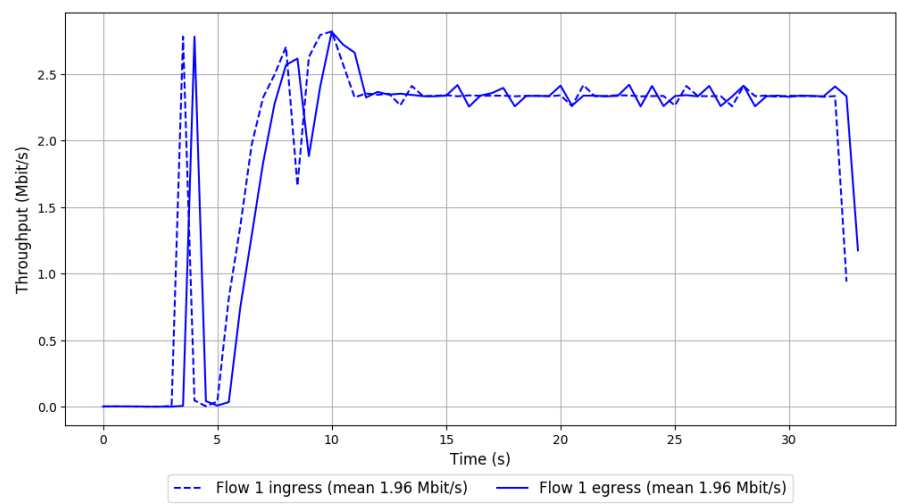
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 53.934 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

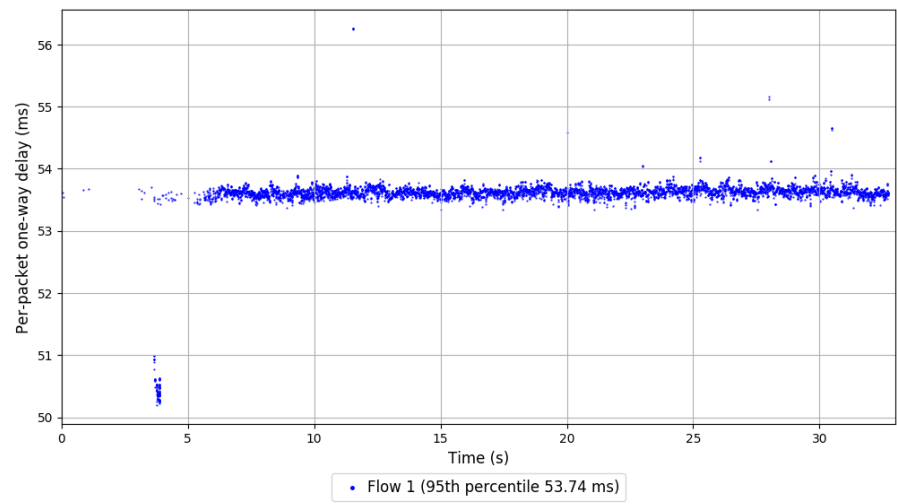
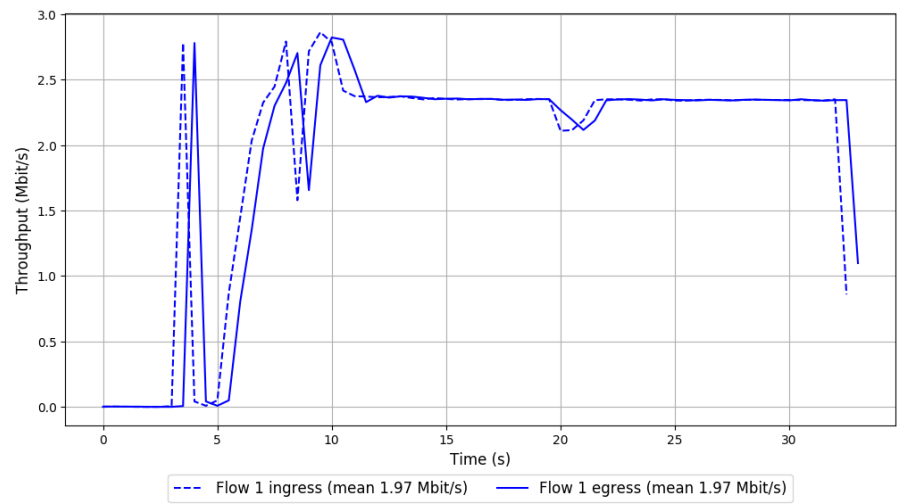


Run 6: Statistics of WebRTC media

Start at: 2018-07-12 00:09:33
End at: 2018-07-12 00:10:03
Local clock offset: -0.145 ms
Remote clock offset: -0.485 ms

Below is generated by plot.py at 2018-07-12 03:36:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

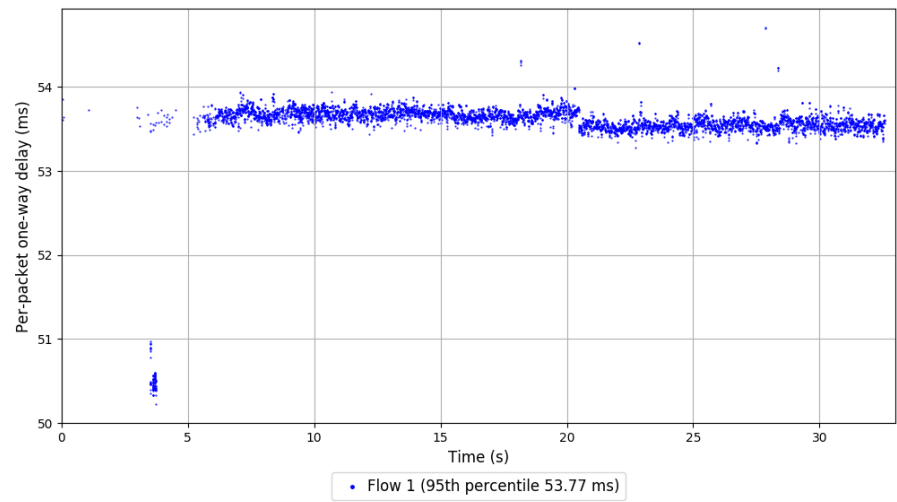
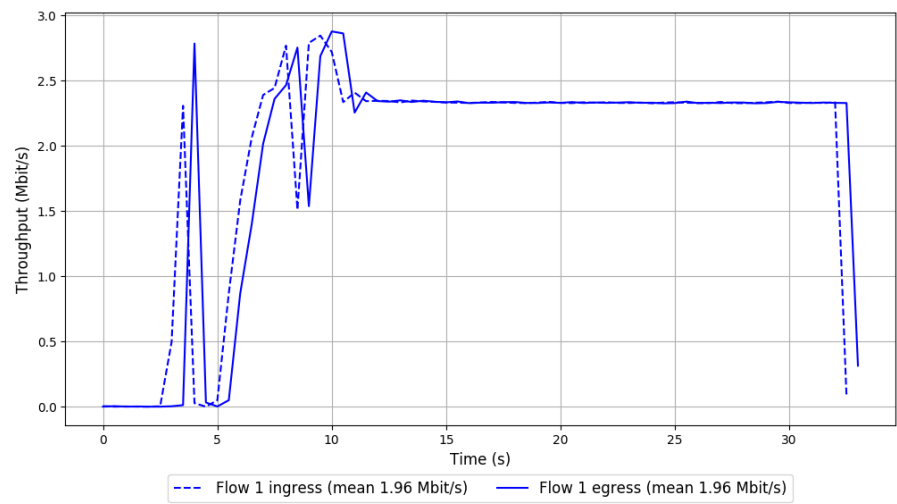


Run 7: Statistics of WebRTC media

Start at: 2018-07-12 00:31:44
End at: 2018-07-12 00:32:14
Local clock offset: -0.041 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-07-12 03:36:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 53.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 53.766 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-12 00:53:39

End at: 2018-07-12 00:54:10

Local clock offset: 0.092 ms

Remote clock offset: 1.139 ms

Below is generated by plot.py at 2018-07-12 03:36:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 55.038 ms

Loss rate: 0.01%

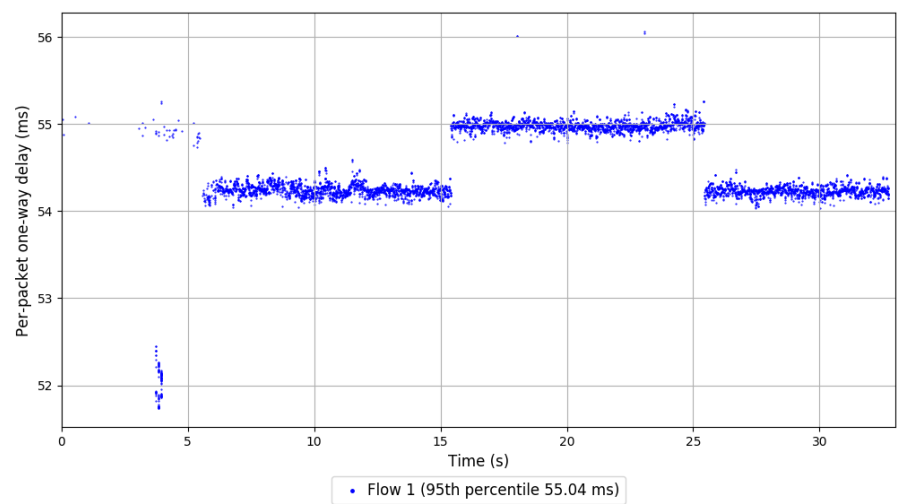
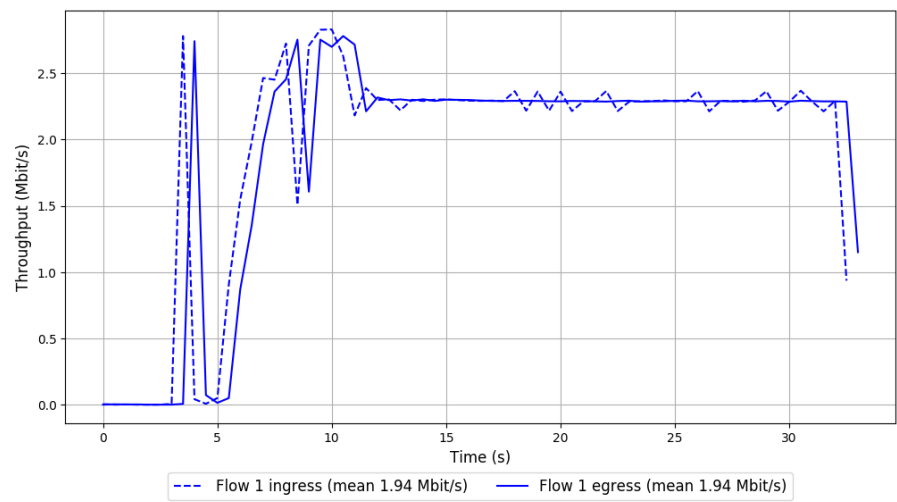
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 55.038 ms

Loss rate: 0.01%

Run 8: Report of WebRTC media — Data Link

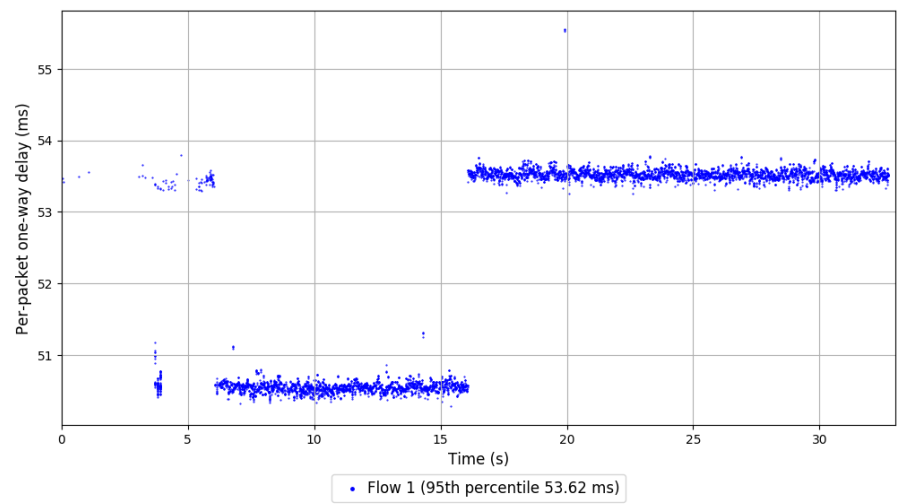
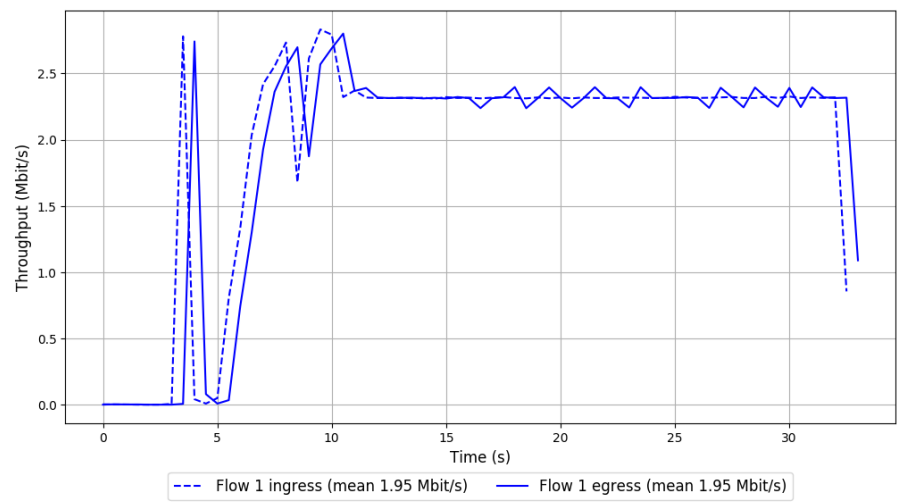


Run 9: Statistics of WebRTC media

Start at: 2018-07-12 01:15:09
End at: 2018-07-12 01:15:39
Local clock offset: 0.129 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-07-12 03:36:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 53.618 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 53.618 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-12 01:37:07
End at: 2018-07-12 01:37:37
Local clock offset: -0.106 ms
Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-07-12 03:36:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 50.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 50.625 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

