

Pantheon Report

Generated at 2019-03-19 19:36:59 (UTC).

Data path: GCE Tokyo on `ens4` (*remote*) → GCE Sydney on `ens4` (*local*).

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

System info:

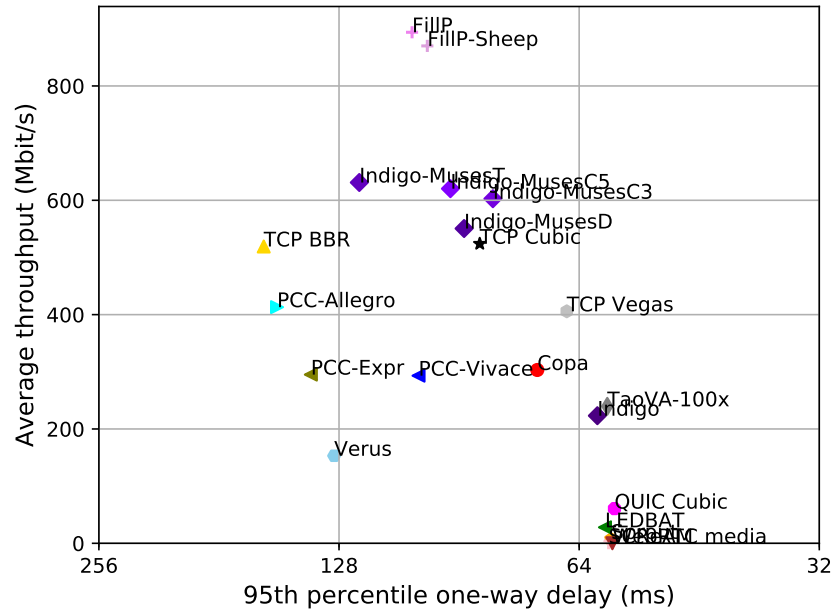
```
Linux 4.15.0-1028-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

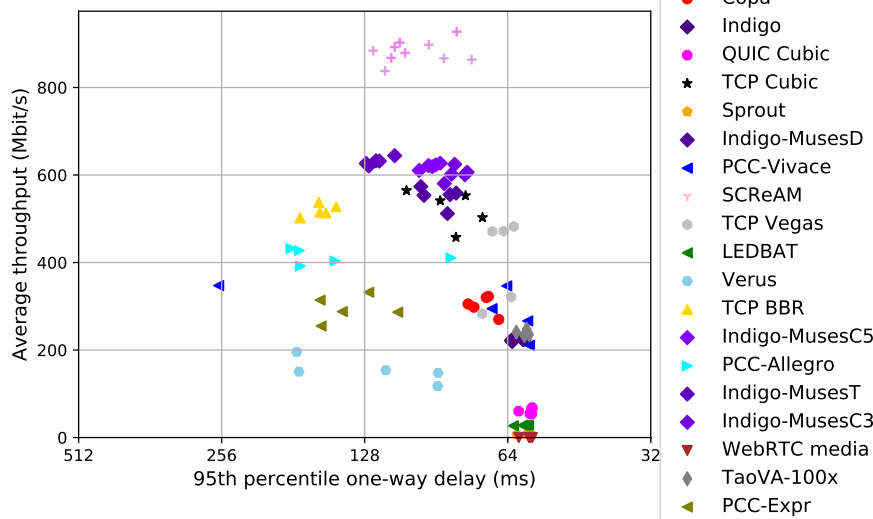
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE Tokyo to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Tokyo to GCE Sydney, 5 runs of 30s each per scheme



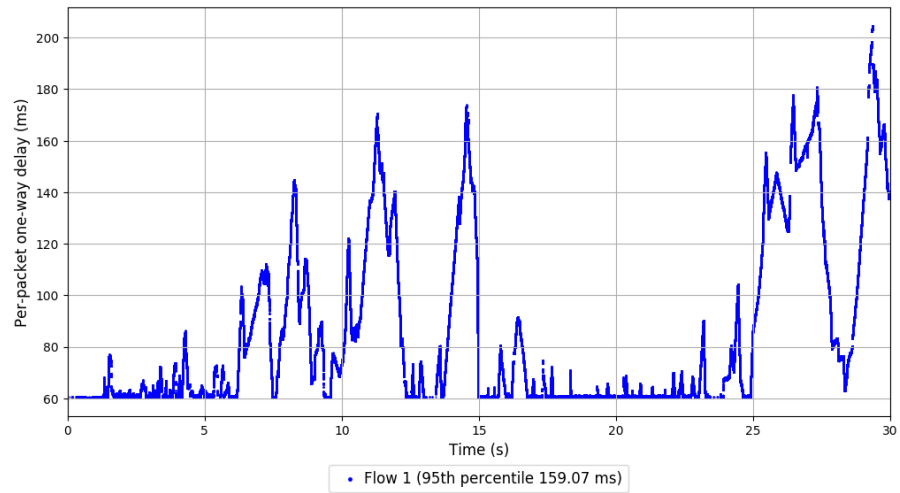
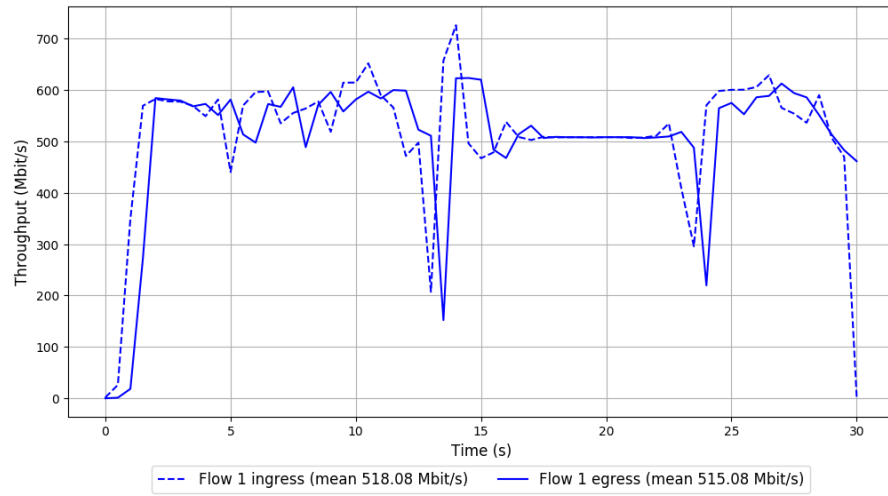
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	519.23	159.07	1.20
Copa	5	303.18	72.22	0.40
TCP Cubic	5	523.92	85.27	0.42
FillP	5	893.89	103.67	0.76
FillP-Sheep	5	870.04	99.20	0.71
Indigo	5	223.20	60.72	0.40
Indigo-MusesC3	5	602.73	82.09	0.41
Indigo-MusesC5	5	620.33	92.80	0.50
Indigo-MusesD	5	550.61	89.21	0.41
Indigo-MusesT	5	631.13	120.72	0.56
LEDBAT	5	27.97	59.41	0.76
PCC-Allegro	5	413.09	153.07	2.76
PCC-Expr	5	295.09	138.85	1.05
QUIC Cubic	5	60.69	57.80	0.67
SCReAM	5	0.22	58.78	0.39
Sprout	5	7.63	58.38	0.35
TaoVA-100x	5	239.62	59.01	0.41
TCP Vegas	5	405.79	66.33	0.36
Verus	5	153.11	129.83	1.10
PCC-Vivace	5	293.22	101.76	0.92
WebRTC media	4	0.05	58.15	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-19 14:56:23
End at: 2019-03-19 14:56:53
Local clock offset: -0.348 ms
Remote clock offset: -0.251 ms

Below is generated by plot.py at 2019-03-19 18:00:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 515.08 Mbit/s
95th percentile per-packet one-way delay: 159.069 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 515.08 Mbit/s
95th percentile per-packet one-way delay: 159.069 ms
Loss rate: 0.98%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-03-19 15:31:08

End at: 2019-03-19 15:31:38

Local clock offset: -0.284 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2019-03-19 18:00:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.28 Mbit/s

95th percentile per-packet one-way delay: 154.392 ms

Loss rate: 1.05%

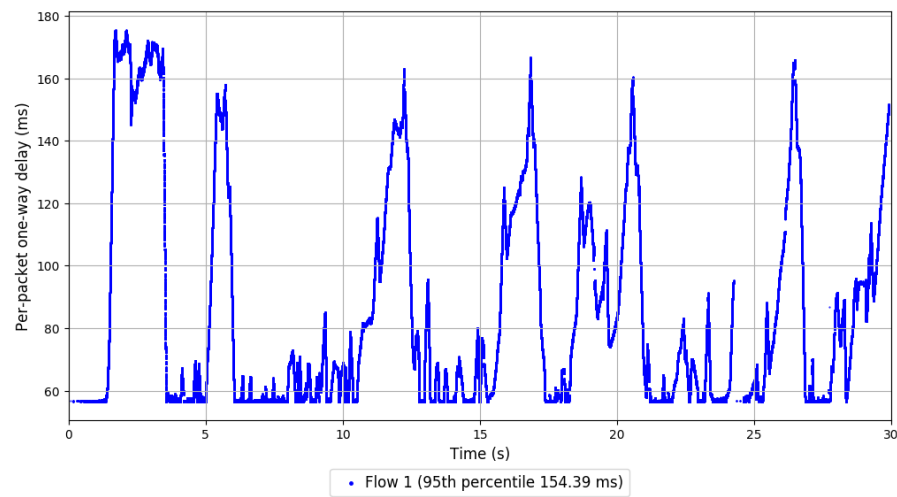
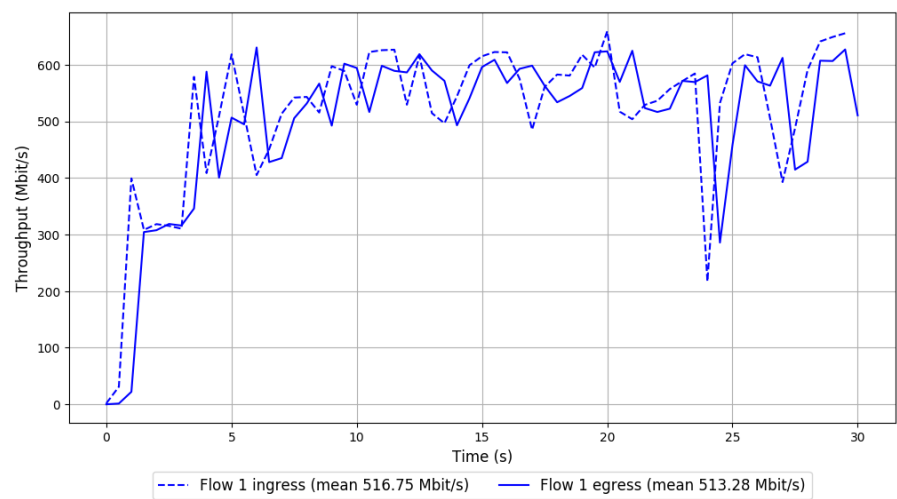
-- Flow 1:

Average throughput: 513.28 Mbit/s

95th percentile per-packet one-way delay: 154.392 ms

Loss rate: 1.05%

Run 2: Report of TCP BBR — Data Link

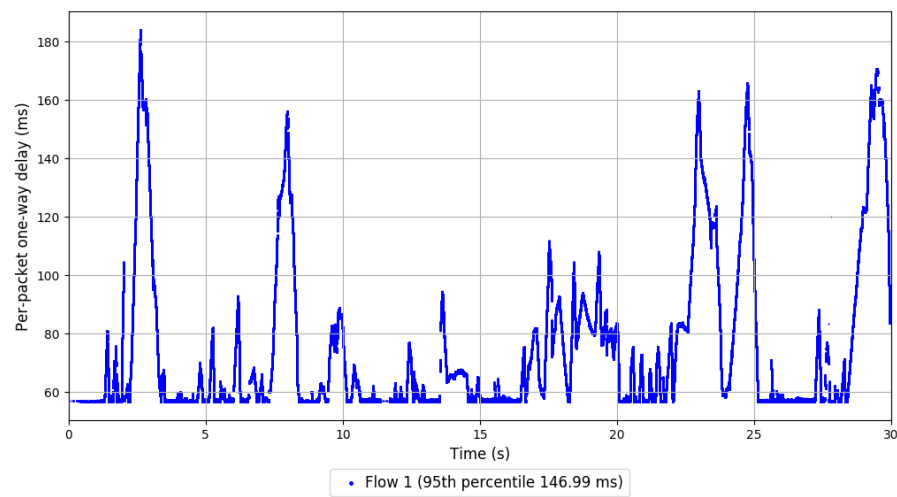
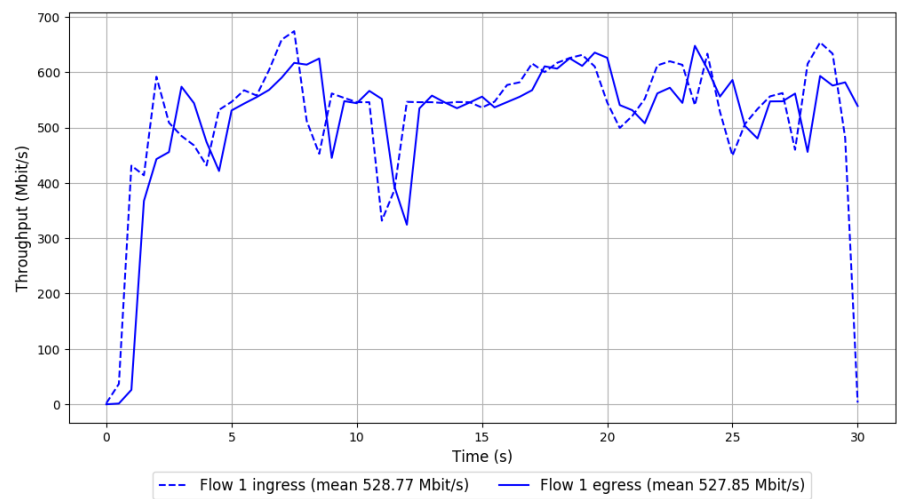


Run 3: Statistics of TCP BBR

Start at: 2019-03-19 16:04:58
End at: 2019-03-19 16:05:28
Local clock offset: -0.504 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2019-03-19 18:01:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 527.85 Mbit/s
95th percentile per-packet one-way delay: 146.985 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 527.85 Mbit/s
95th percentile per-packet one-way delay: 146.985 ms
Loss rate: 0.57%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-19 16:40:10

End at: 2019-03-19 16:40:40

Local clock offset: -0.012 ms

Remote clock offset: 0.242 ms

Below is generated by plot.py at 2019-03-19 18:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.71 Mbit/s

95th percentile per-packet one-way delay: 159.836 ms

Loss rate: 1.26%

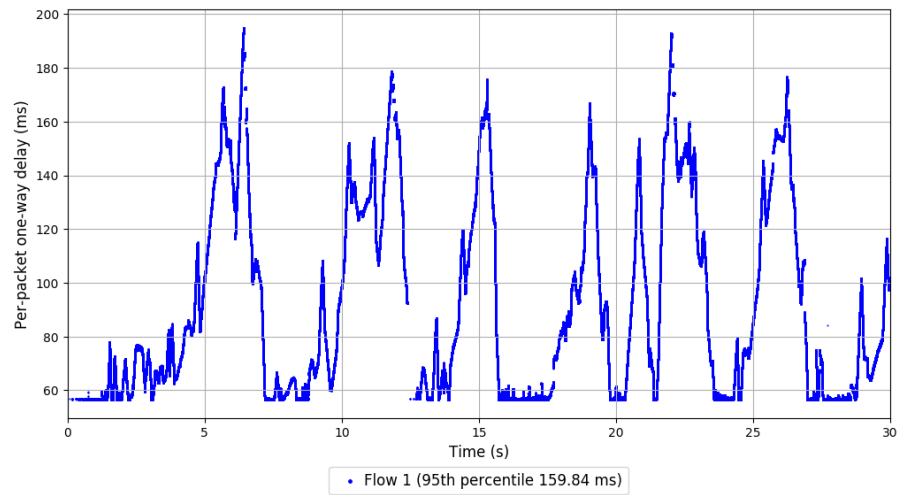
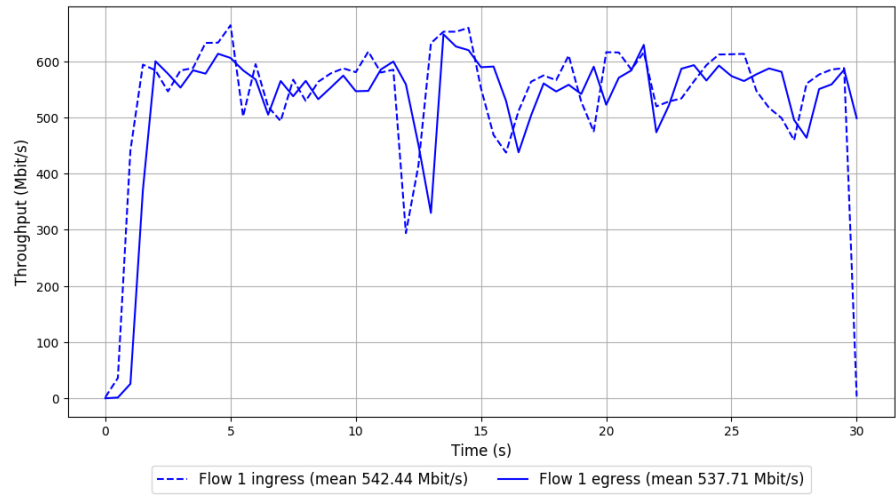
-- Flow 1:

Average throughput: 537.71 Mbit/s

95th percentile per-packet one-way delay: 159.836 ms

Loss rate: 1.26%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-19 17:15:24

End at: 2019-03-19 17:15:54

Local clock offset: 0.004 ms

Remote clock offset: -0.573 ms

Below is generated by plot.py at 2019-03-19 18:01:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.21 Mbit/s

95th percentile per-packet one-way delay: 175.064 ms

Loss rate: 2.12%

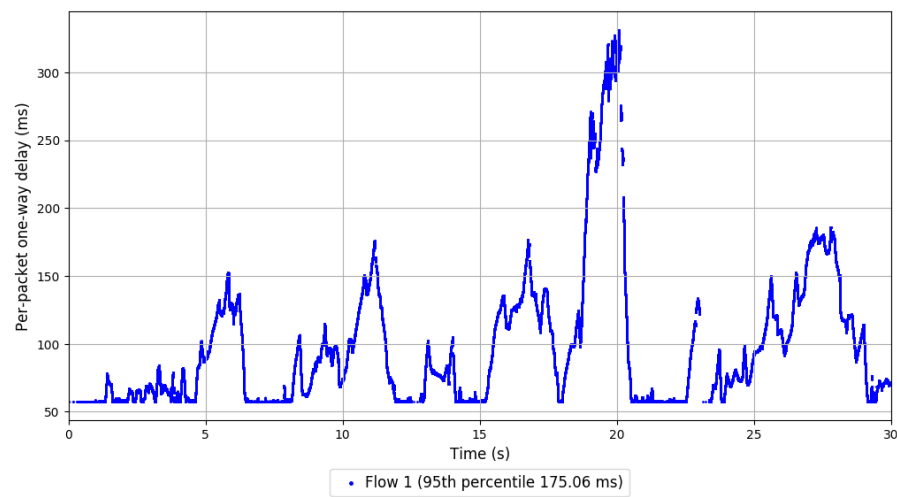
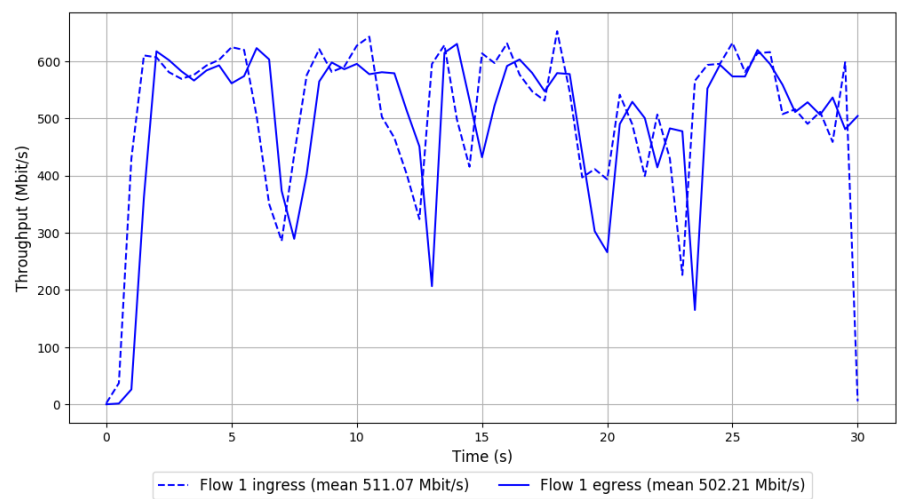
-- Flow 1:

Average throughput: 502.21 Mbit/s

95th percentile per-packet one-way delay: 175.064 ms

Loss rate: 2.12%

Run 5: Report of TCP BBR — Data Link

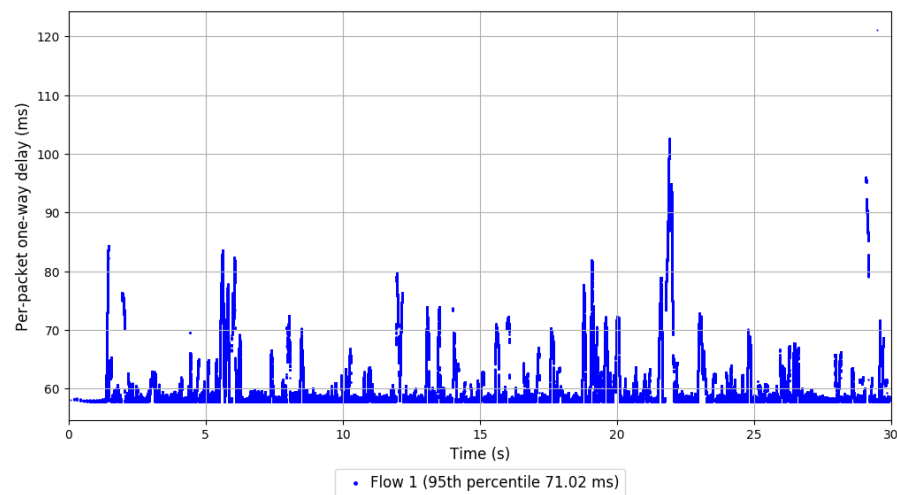
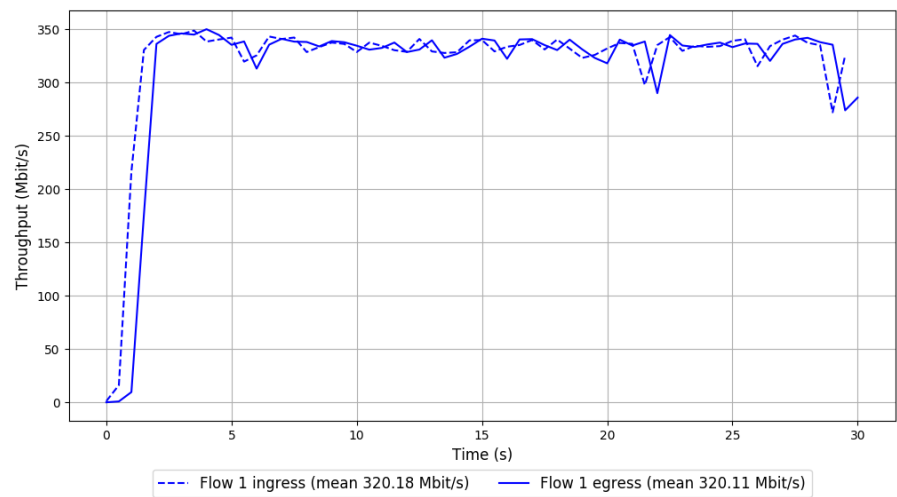


Run 1: Statistics of Copa

Start at: 2019-03-19 15:08:25
End at: 2019-03-19 15:08:55
Local clock offset: -0.104 ms
Remote clock offset: -0.796 ms

Below is generated by plot.py at 2019-03-19 18:02:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 320.11 Mbit/s
95th percentile per-packet one-way delay: 71.015 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 320.11 Mbit/s
95th percentile per-packet one-way delay: 71.015 ms
Loss rate: 0.40%

Run 1: Report of Copa — Data Link

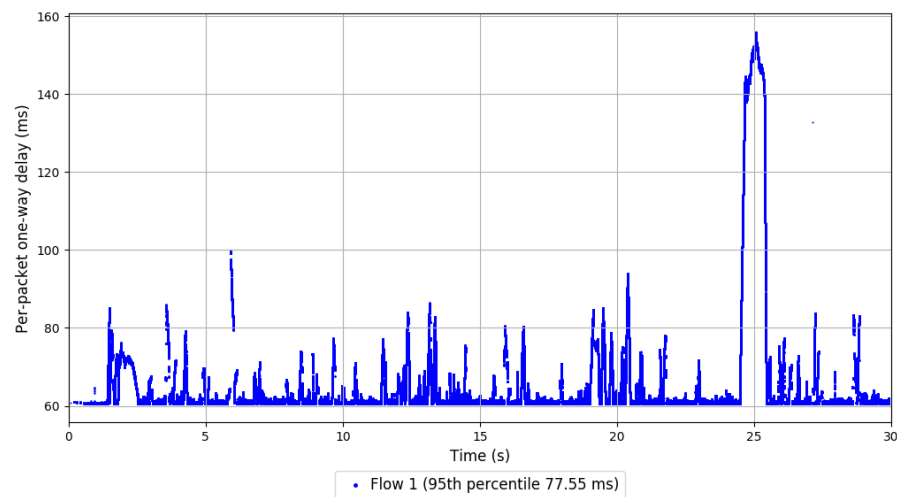
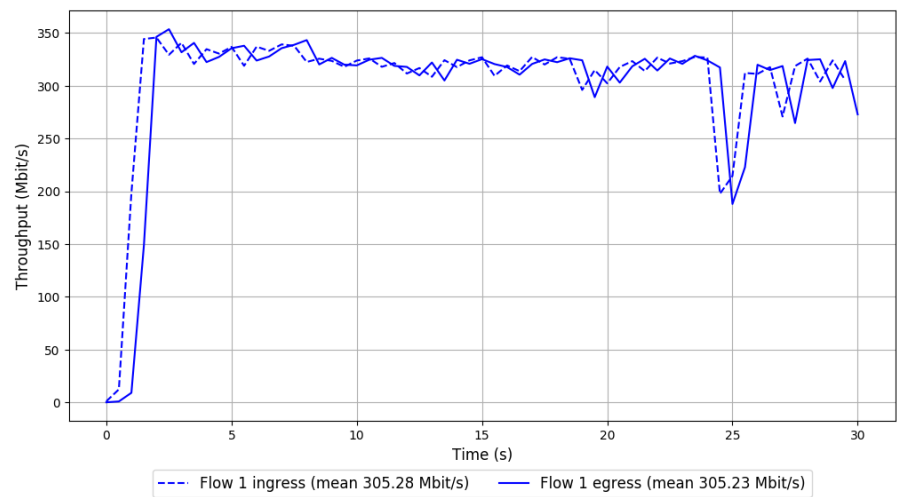


Run 2: Statistics of Copa

Start at: 2019-03-19 15:42:48
End at: 2019-03-19 15:43:18
Local clock offset: 0.105 ms
Remote clock offset: -0.212 ms

Below is generated by plot.py at 2019-03-19 18:02:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 305.23 Mbit/s
95th percentile per-packet one-way delay: 77.546 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 305.23 Mbit/s
95th percentile per-packet one-way delay: 77.546 ms
Loss rate: 0.42%

Run 2: Report of Copa — Data Link

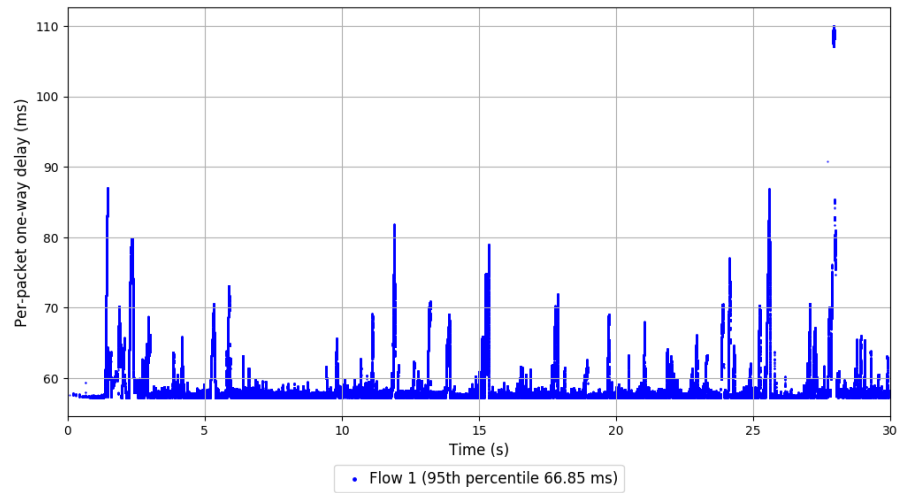
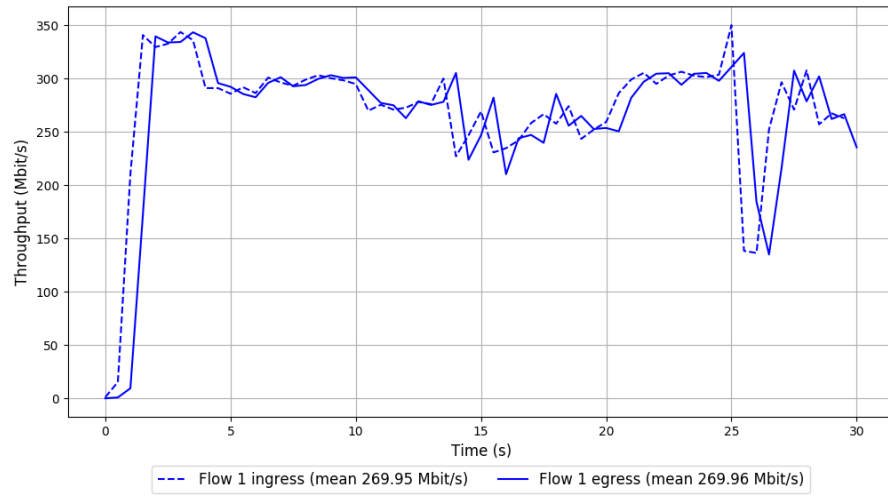


Run 3: Statistics of Copa

Start at: 2019-03-19 16:16:51
End at: 2019-03-19 16:17:21
Local clock offset: -0.11 ms
Remote clock offset: -0.251 ms

Below is generated by plot.py at 2019-03-19 18:02:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 269.96 Mbit/s
95th percentile per-packet one-way delay: 66.853 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 269.96 Mbit/s
95th percentile per-packet one-way delay: 66.853 ms
Loss rate: 0.38%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-03-19 16:52:29

End at: 2019-03-19 16:52:59

Local clock offset: 0.444 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2019-03-19 18:10:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.66 Mbit/s

95th percentile per-packet one-way delay: 70.300 ms

Loss rate: 0.39%

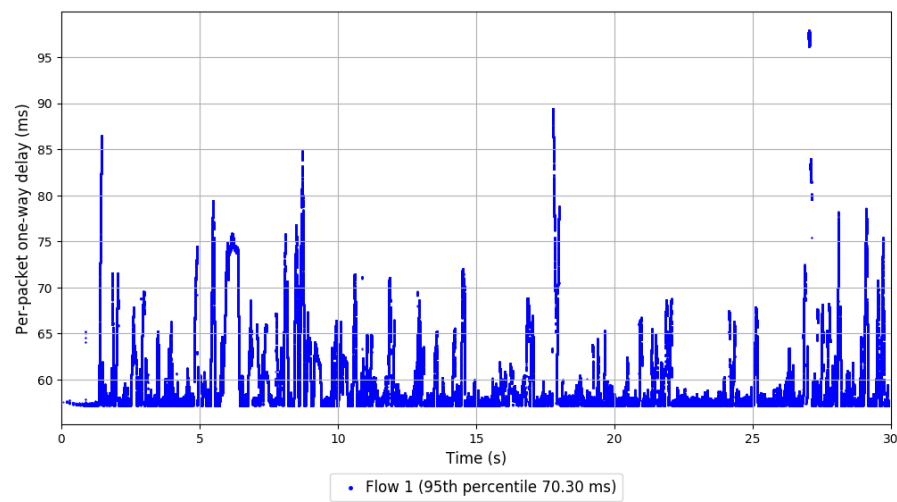
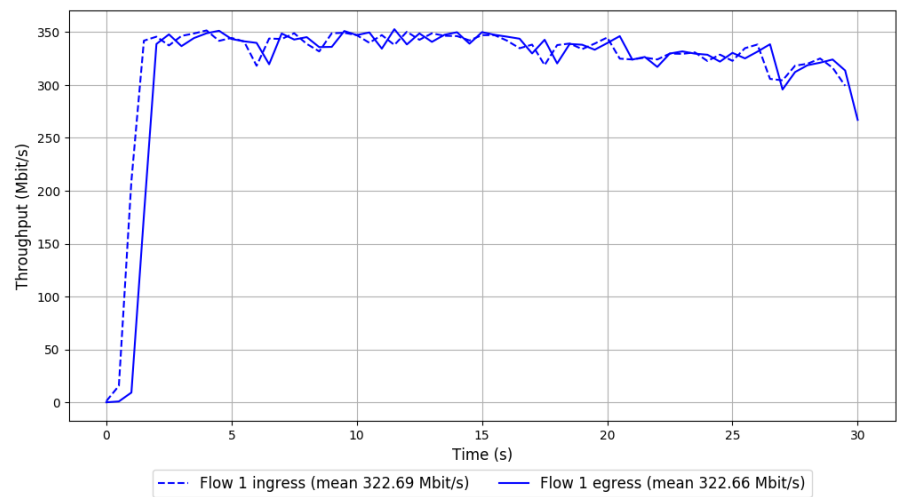
-- Flow 1:

Average throughput: 322.66 Mbit/s

95th percentile per-packet one-way delay: 70.300 ms

Loss rate: 0.39%

Run 4: Report of Copa — Data Link

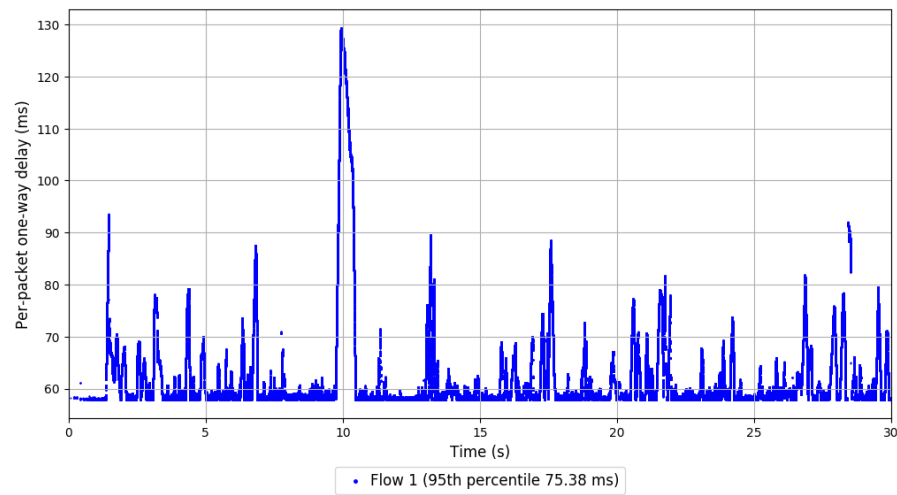
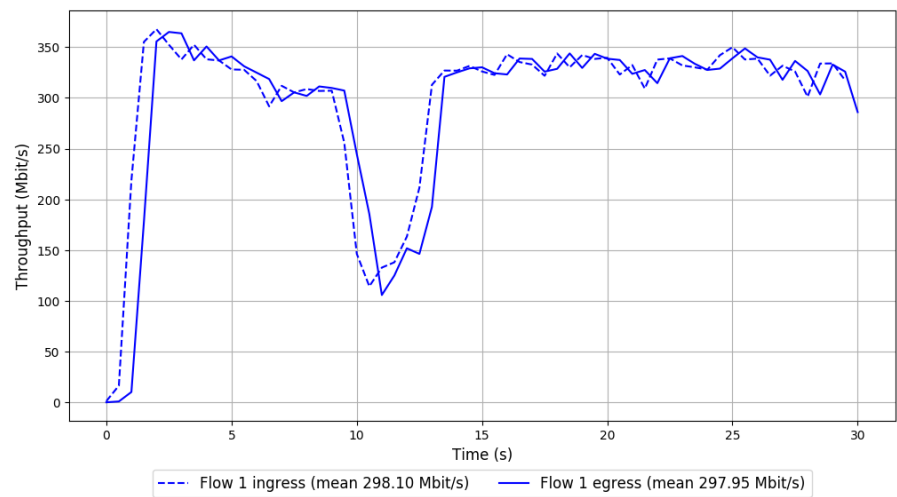


Run 5: Statistics of Copa

Start at: 2019-03-19 17:27:38
End at: 2019-03-19 17:28:08
Local clock offset: 0.416 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2019-03-19 18:10:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 297.95 Mbit/s
95th percentile per-packet one-way delay: 75.378 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 297.95 Mbit/s
95th percentile per-packet one-way delay: 75.378 ms
Loss rate: 0.43%

Run 5: Report of Copa — Data Link

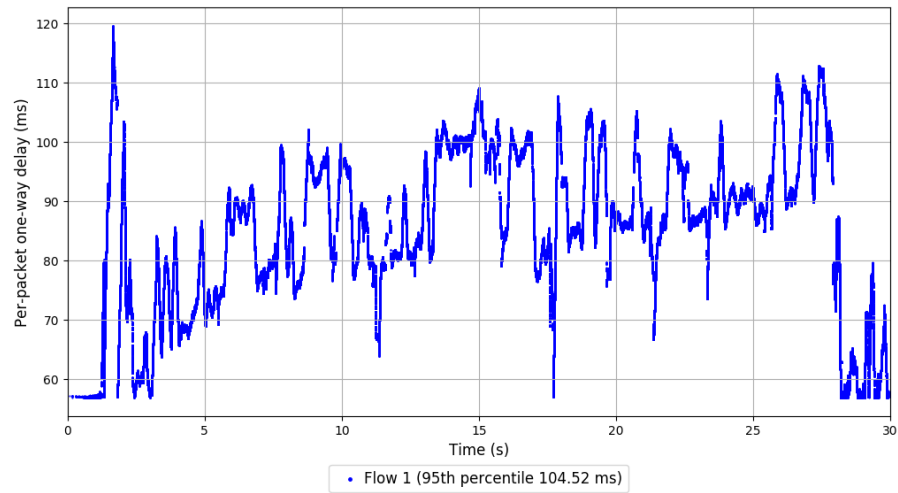
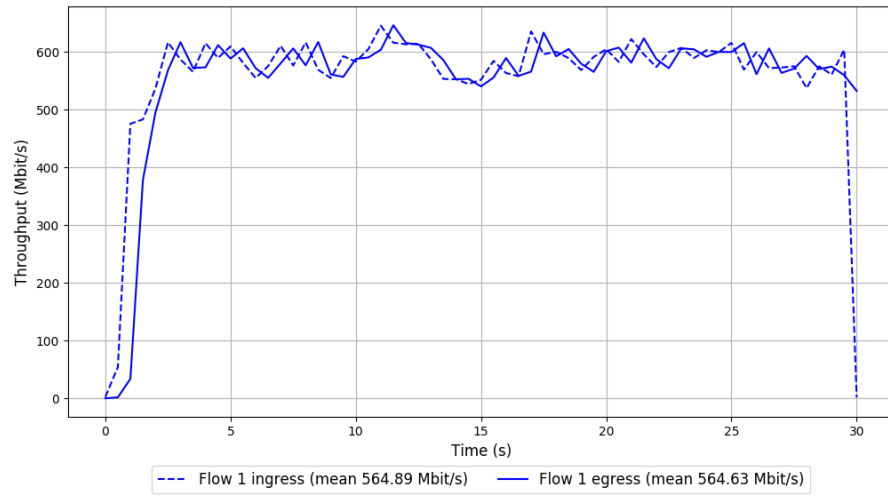


Run 1: Statistics of TCP Cubic

Start at: 2019-03-19 14:58:26
End at: 2019-03-19 14:58:56
Local clock offset: -0.101 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-03-19 18:10:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 564.63 Mbit/s
95th percentile per-packet one-way delay: 104.523 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 564.63 Mbit/s
95th percentile per-packet one-way delay: 104.523 ms
Loss rate: 0.43%

Run 1: Report of TCP Cubic — Data Link

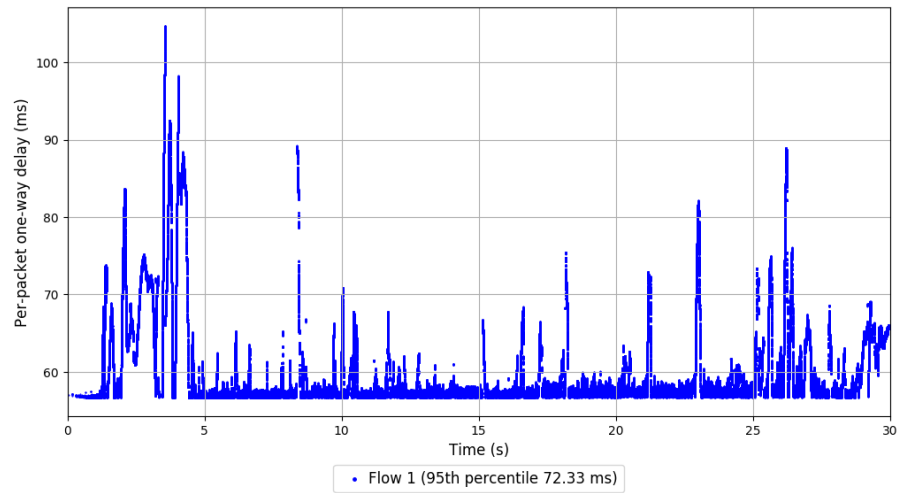
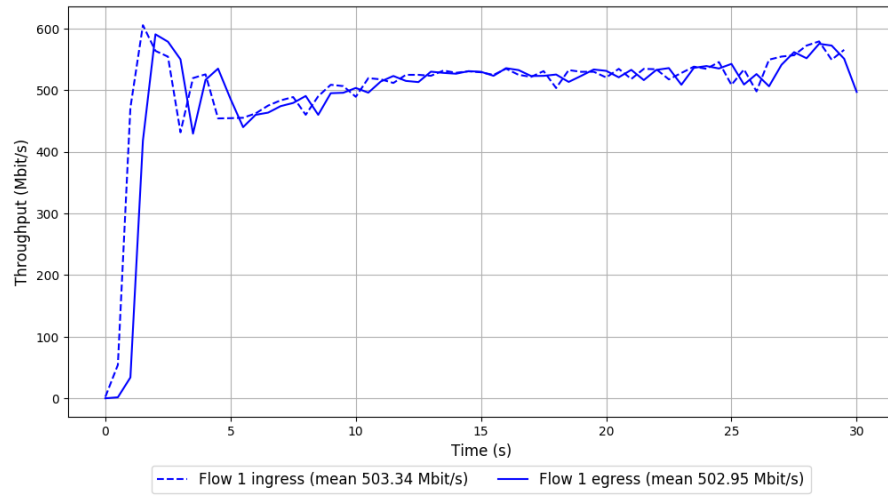


Run 2: Statistics of TCP Cubic

Start at: 2019-03-19 15:32:58
End at: 2019-03-19 15:33:28
Local clock offset: -0.369 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2019-03-19 18:10:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 502.95 Mbit/s
95th percentile per-packet one-way delay: 72.325 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 502.95 Mbit/s
95th percentile per-packet one-way delay: 72.325 ms
Loss rate: 0.46%

Run 2: Report of TCP Cubic — Data Link

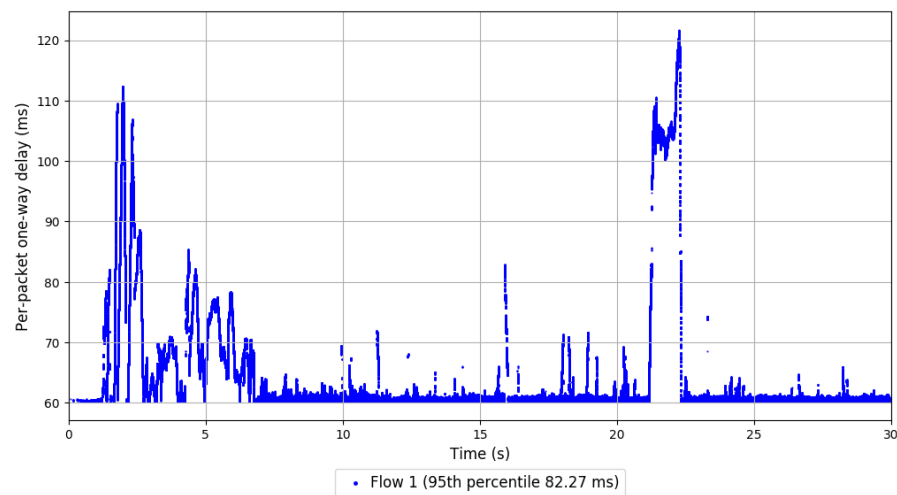
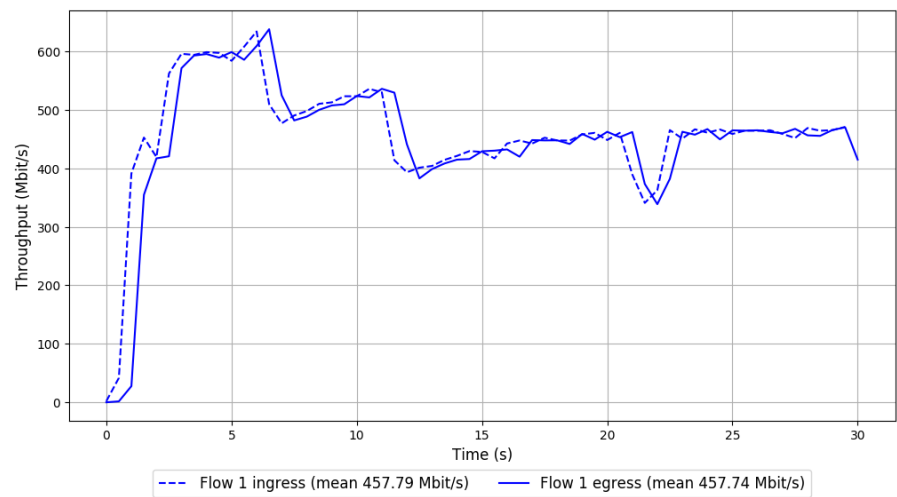


Run 3: Statistics of TCP Cubic

Start at: 2019-03-19 16:06:55
End at: 2019-03-19 16:07:25
Local clock offset: -0.46 ms
Remote clock offset: -0.391 ms

Below is generated by plot.py at 2019-03-19 18:10:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 457.74 Mbit/s
95th percentile per-packet one-way delay: 82.266 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 457.74 Mbit/s
95th percentile per-packet one-way delay: 82.266 ms
Loss rate: 0.41%

Run 3: Report of TCP Cubic — Data Link

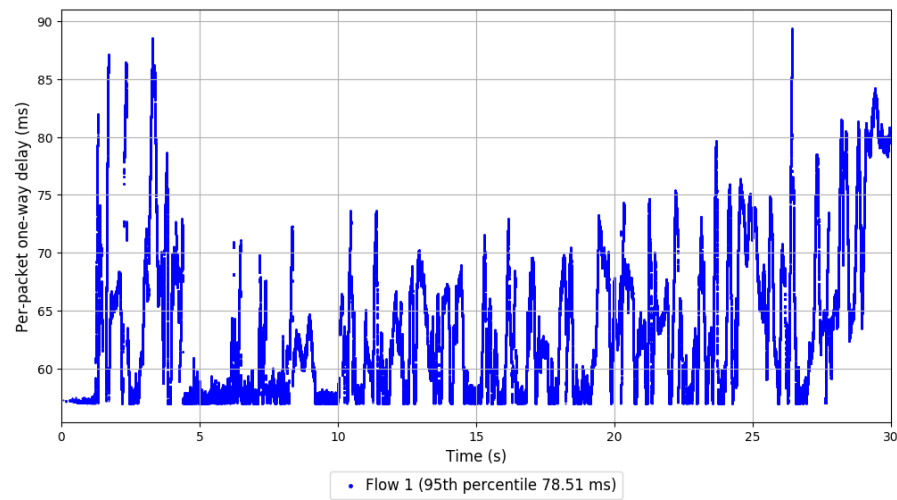
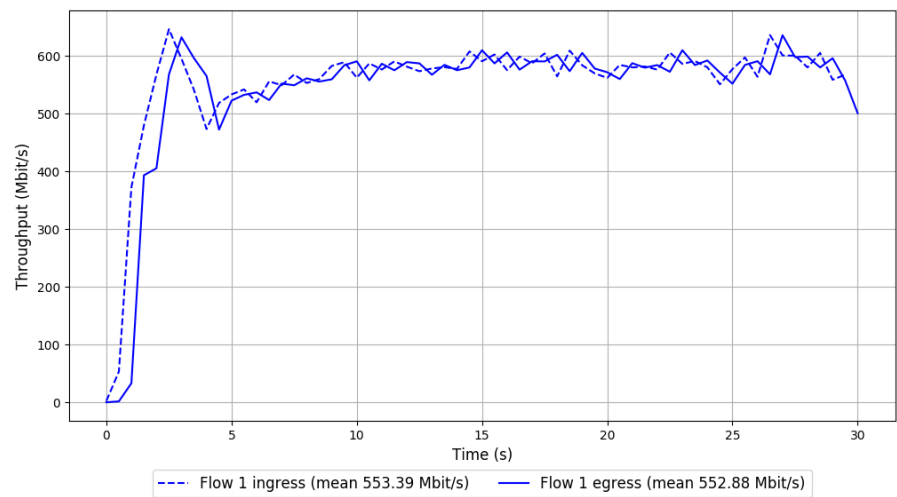


Run 4: Statistics of TCP Cubic

Start at: 2019-03-19 16:42:00
End at: 2019-03-19 16:42:30
Local clock offset: -0.147 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2019-03-19 18:10:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 552.88 Mbit/s
95th percentile per-packet one-way delay: 78.507 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 552.88 Mbit/s
95th percentile per-packet one-way delay: 78.507 ms
Loss rate: 0.47%

Run 4: Report of TCP Cubic — Data Link

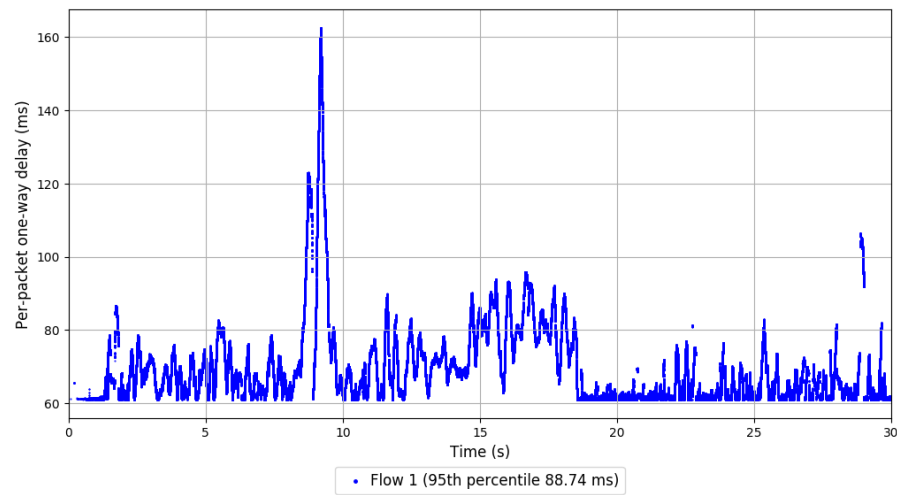
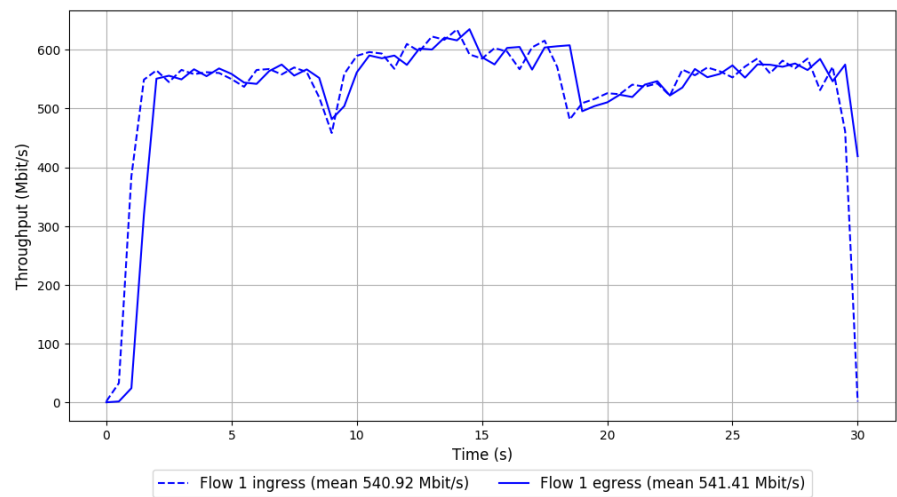


Run 5: Statistics of TCP Cubic

Start at: 2019-03-19 17:17:18
End at: 2019-03-19 17:17:48
Local clock offset: 0.06 ms
Remote clock offset: -0.557 ms

Below is generated by plot.py at 2019-03-19 18:11:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 541.41 Mbit/s
95th percentile per-packet one-way delay: 88.738 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 541.41 Mbit/s
95th percentile per-packet one-way delay: 88.738 ms
Loss rate: 0.31%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-19 15:06:16

End at: 2019-03-19 15:06:46

Local clock offset: -0.125 ms

Remote clock offset: 0.51 ms

Below is generated by plot.py at 2019-03-19 18:18:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 867.76 Mbit/s

95th percentile per-packet one-way delay: 112.539 ms

Loss rate: 0.75%

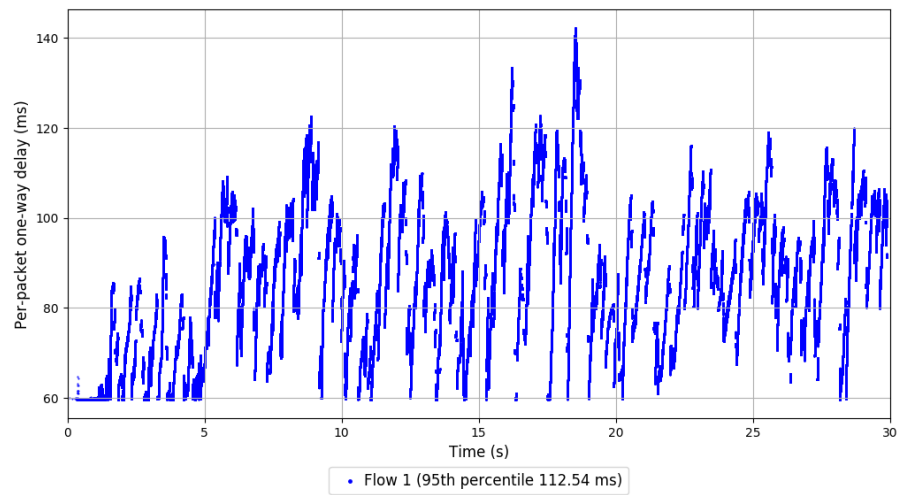
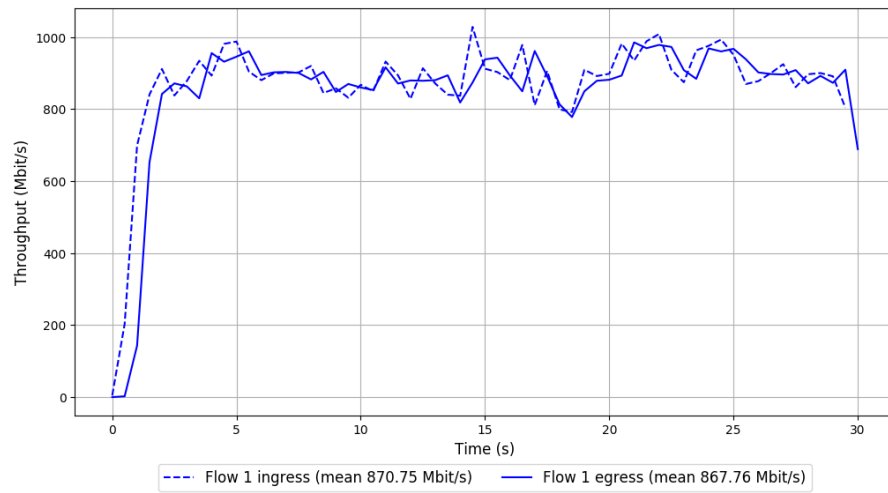
-- Flow 1:

Average throughput: 867.76 Mbit/s

95th percentile per-packet one-way delay: 112.539 ms

Loss rate: 0.75%

Run 1: Report of FillP — Data Link

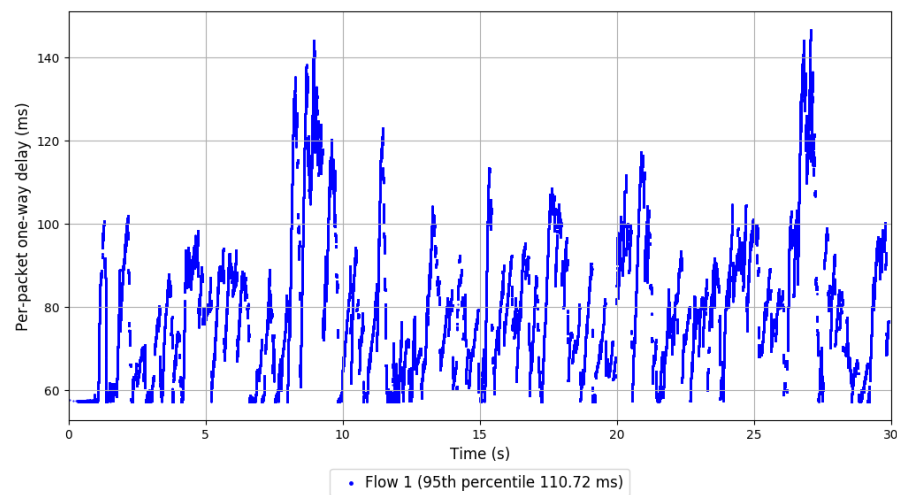
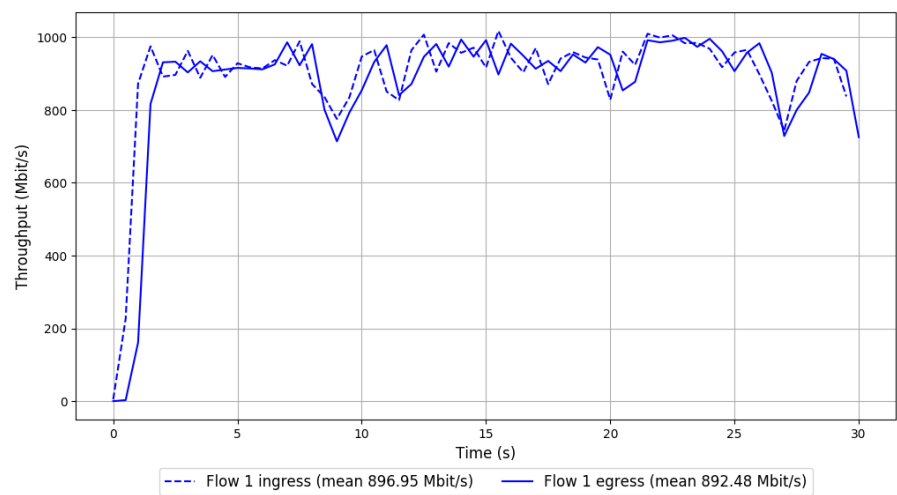


Run 2: Statistics of FillP

Start at: 2019-03-19 15:40:39
End at: 2019-03-19 15:41:09
Local clock offset: -0.11 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-03-19 18:28:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 892.48 Mbit/s
95th percentile per-packet one-way delay: 110.721 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 892.48 Mbit/s
95th percentile per-packet one-way delay: 110.721 ms
Loss rate: 0.89%

Run 2: Report of FillP — Data Link

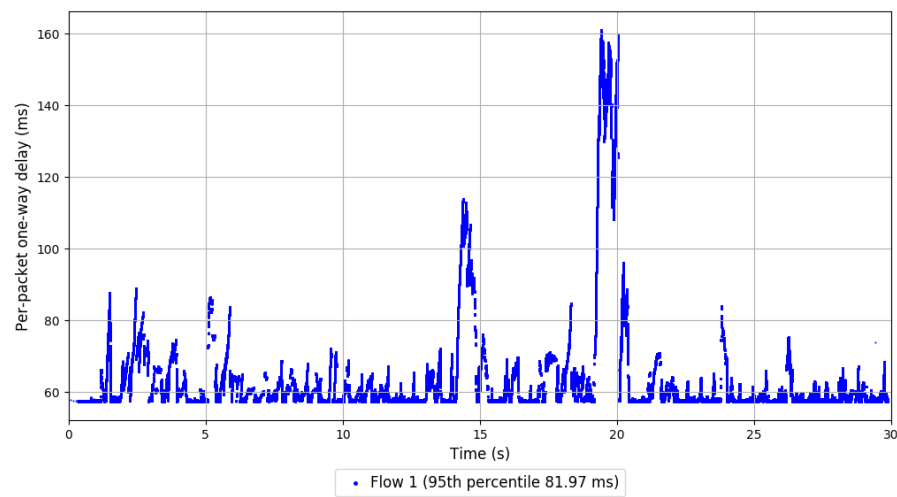
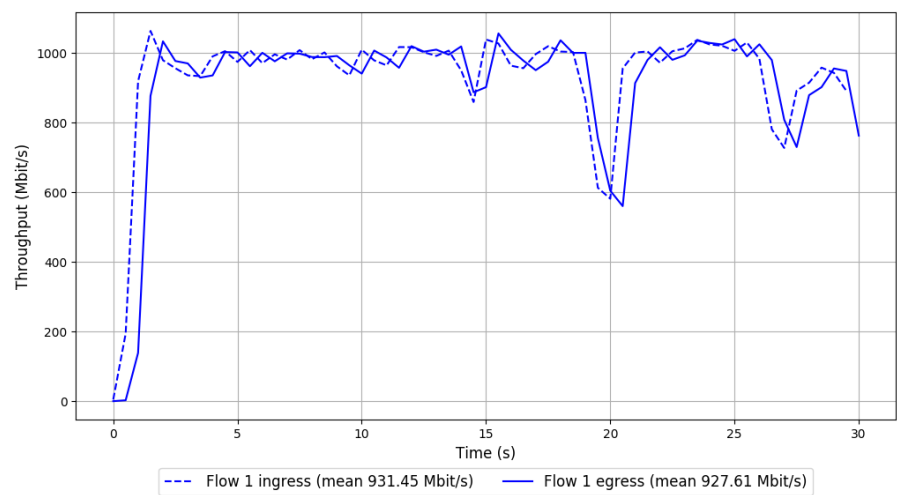


Run 3: Statistics of FillP

Start at: 2019-03-19 16:14:58
End at: 2019-03-19 16:15:28
Local clock offset: 0.144 ms
Remote clock offset: -0.395 ms

Below is generated by plot.py at 2019-03-19 18:28:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 927.61 Mbit/s
95th percentile per-packet one-way delay: 81.967 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 927.61 Mbit/s
95th percentile per-packet one-way delay: 81.967 ms
Loss rate: 0.79%

Run 3: Report of FillP — Data Link

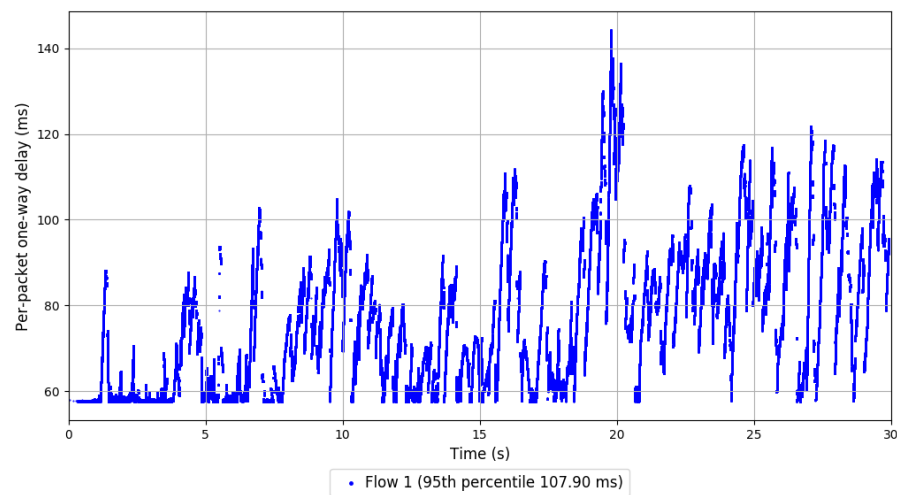
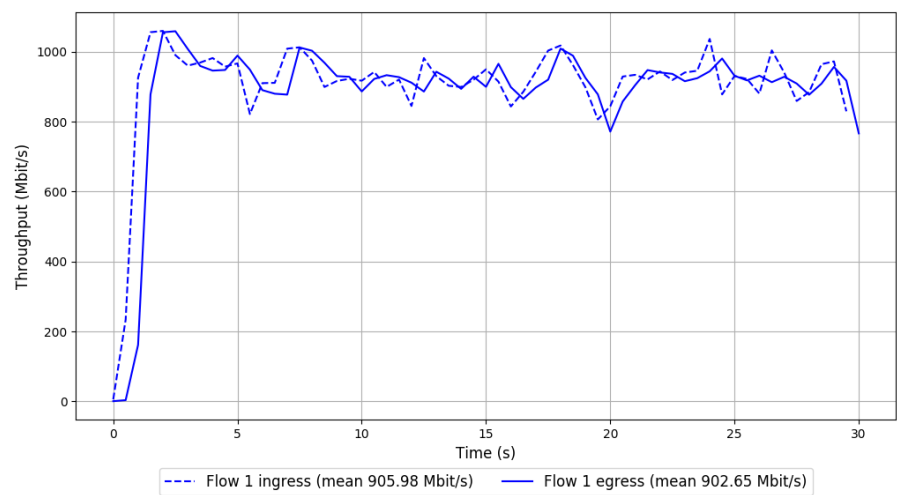


Run 4: Statistics of FillP

Start at: 2019-03-19 16:50:17
End at: 2019-03-19 16:50:47
Local clock offset: -0.156 ms
Remote clock offset: -0.732 ms

Below is generated by plot.py at 2019-03-19 18:29:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 902.65 Mbit/s
95th percentile per-packet one-way delay: 107.899 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 902.65 Mbit/s
95th percentile per-packet one-way delay: 107.899 ms
Loss rate: 0.76%

Run 4: Report of FillP — Data Link

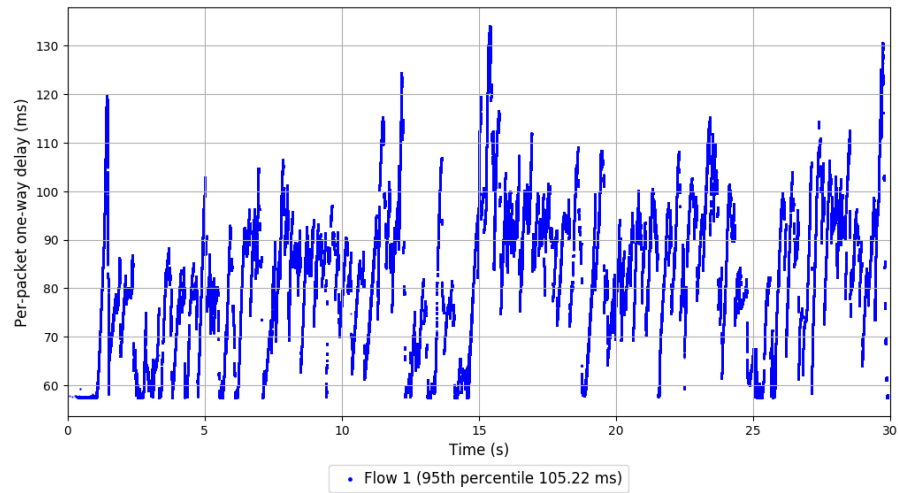
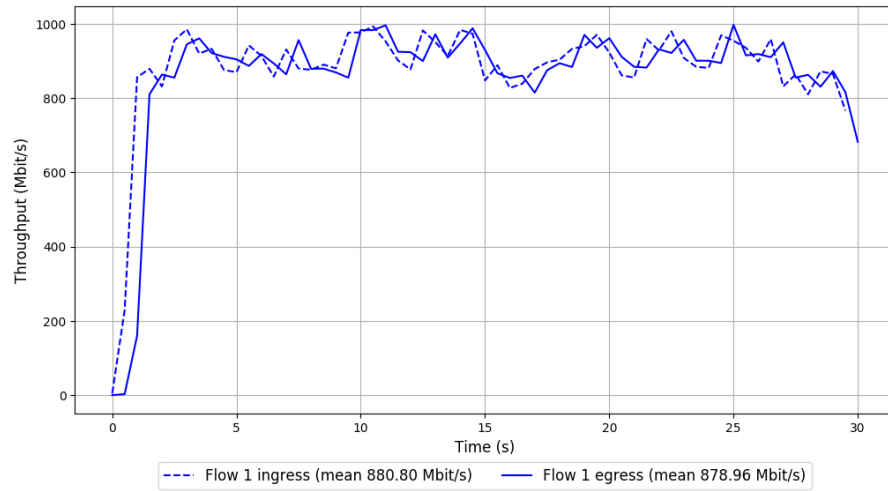


Run 5: Statistics of FillP

Start at: 2019-03-19 17:25:33
End at: 2019-03-19 17:26:03
Local clock offset: -0.006 ms
Remote clock offset: -0.618 ms

Below is generated by plot.py at 2019-03-19 18:29:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 878.96 Mbit/s
95th percentile per-packet one-way delay: 105.220 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 878.96 Mbit/s
95th percentile per-packet one-way delay: 105.220 ms
Loss rate: 0.60%

Run 5: Report of FillP — Data Link

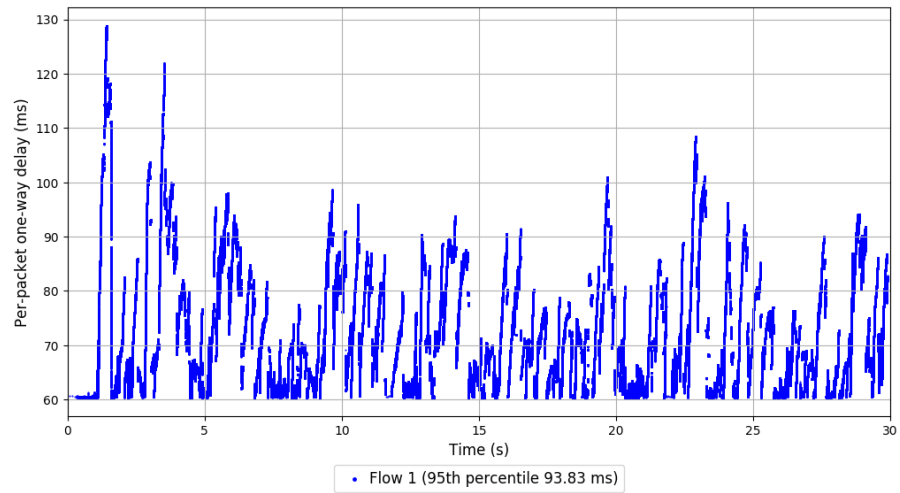
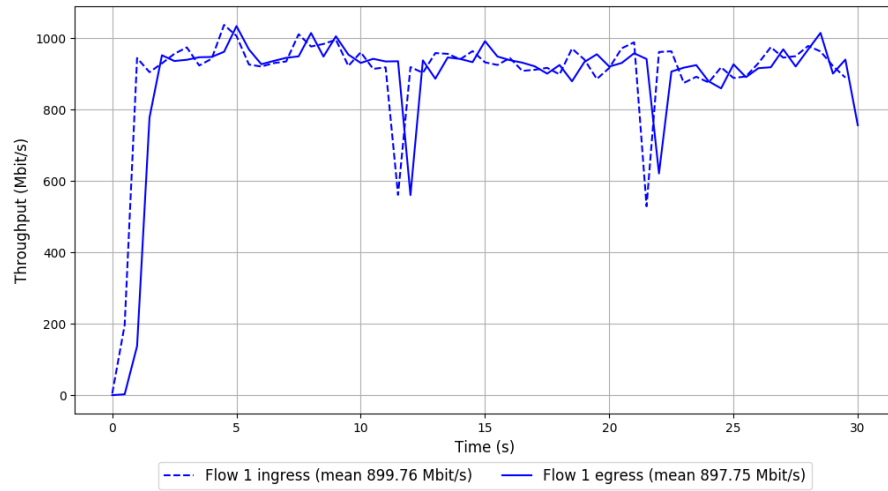


Run 1: Statistics of FillP-Sheep

Start at: 2019-03-19 14:52:12
End at: 2019-03-19 14:52:42
Local clock offset: -0.082 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2019-03-19 18:29:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 897.75 Mbit/s
95th percentile per-packet one-way delay: 93.828 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 897.75 Mbit/s
95th percentile per-packet one-way delay: 93.828 ms
Loss rate: 0.63%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-19 15:27:16

End at: 2019-03-19 15:27:46

Local clock offset: -0.137 ms

Remote clock offset: -0.93 ms

Below is generated by plot.py at 2019-03-19 18:29:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 884.28 Mbit/s

95th percentile per-packet one-way delay: 122.797 ms

Loss rate: 1.19%

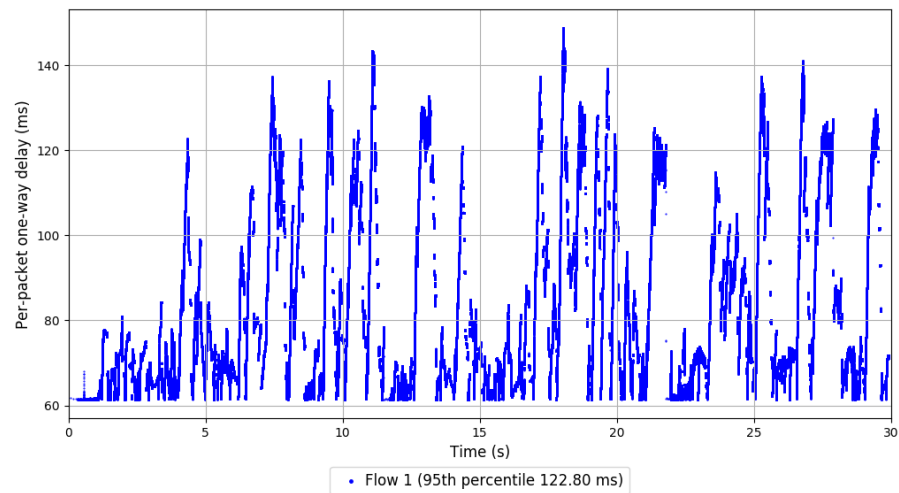
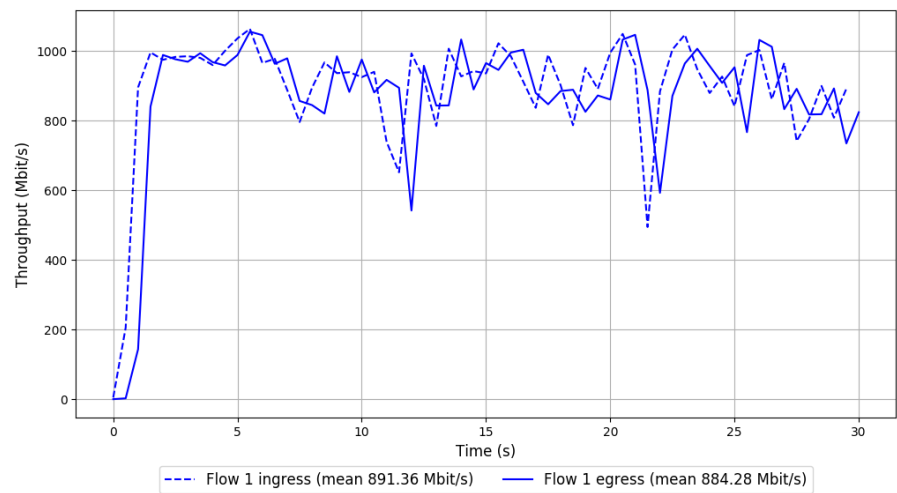
-- Flow 1:

Average throughput: 884.28 Mbit/s

95th percentile per-packet one-way delay: 122.797 ms

Loss rate: 1.19%

Run 2: Report of FillP-Sheep — Data Link

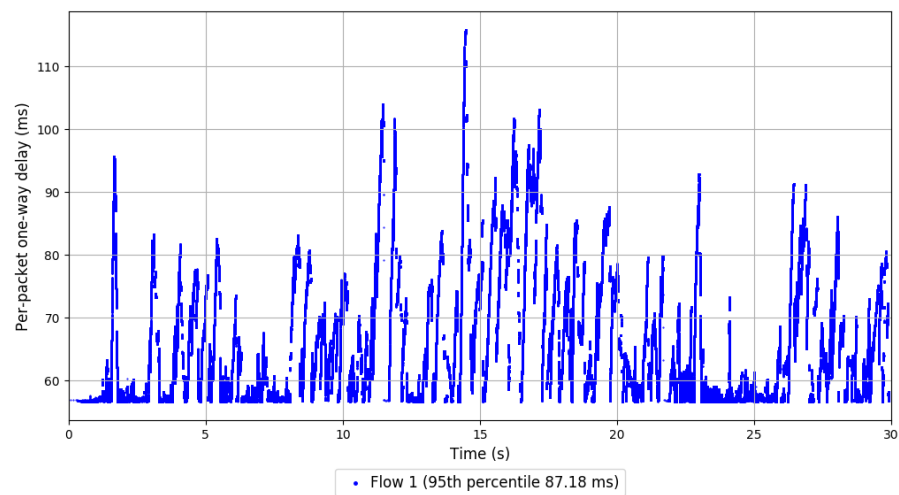
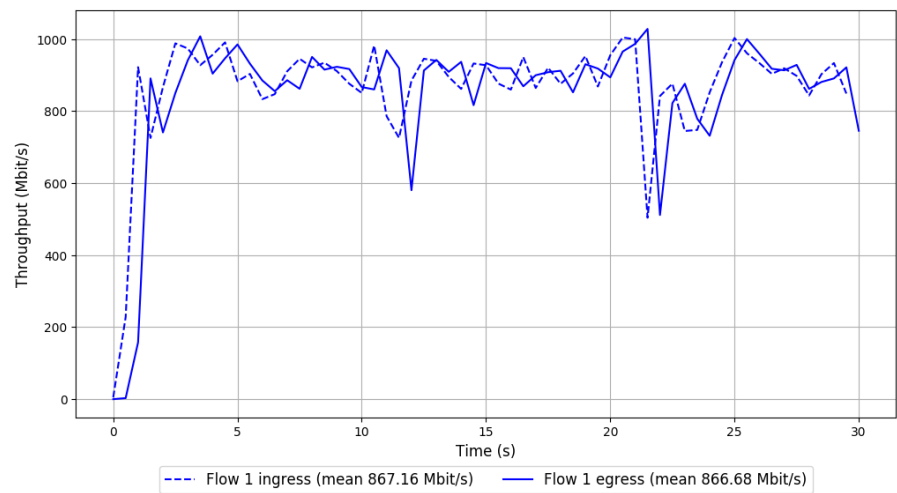


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-19 16:01:17
End at: 2019-03-19 16:01:47
Local clock offset: -0.293 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2019-03-19 18:29:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 866.68 Mbit/s
95th percentile per-packet one-way delay: 87.184 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 866.68 Mbit/s
95th percentile per-packet one-way delay: 87.184 ms
Loss rate: 0.45%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-19 16:36:14

End at: 2019-03-19 16:36:44

Local clock offset: 0.185 ms

Remote clock offset: 0.189 ms

Below is generated by plot.py at 2019-03-19 18:39:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 837.79 Mbit/s

95th percentile per-packet one-way delay: 115.955 ms

Loss rate: 0.62%

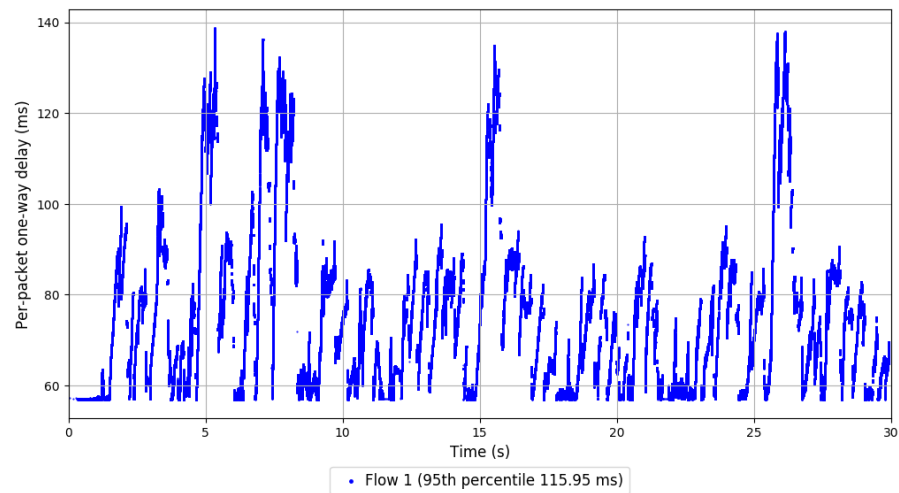
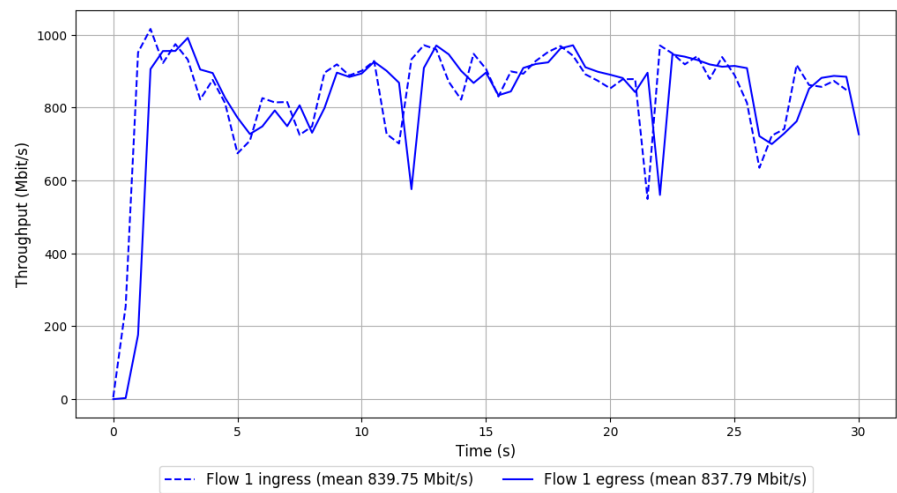
-- Flow 1:

Average throughput: 837.79 Mbit/s

95th percentile per-packet one-way delay: 115.955 ms

Loss rate: 0.62%

Run 4: Report of FillP-Sheep — Data Link

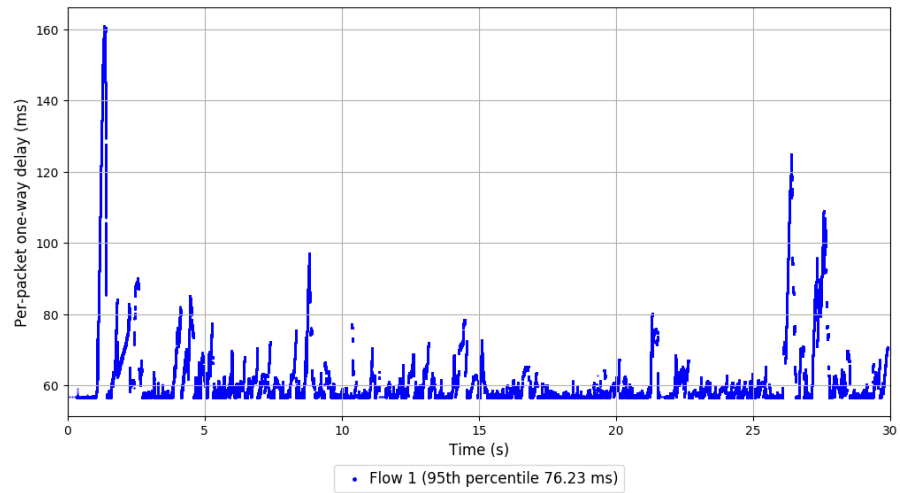
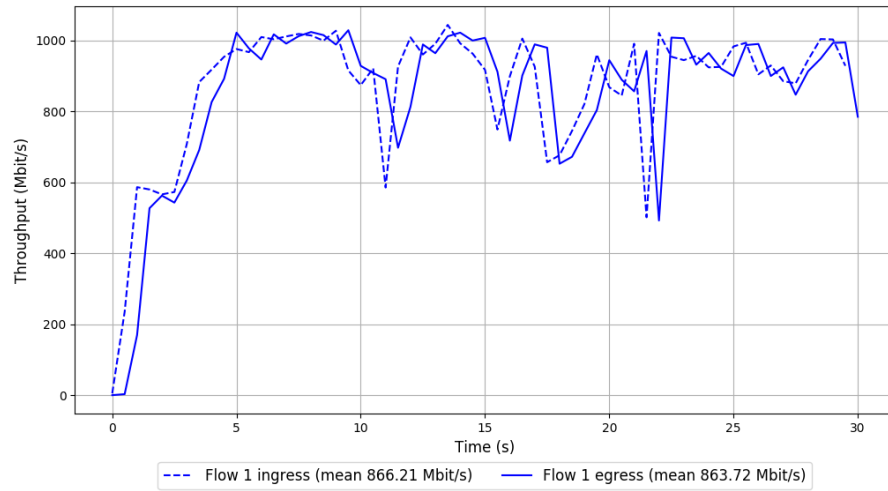


Run 5: Statistics of FillP-Sheep

Start at: 2019-03-19 17:11:39
End at: 2019-03-19 17:12:09
Local clock offset: -0.39 ms
Remote clock offset: -0.139 ms

Below is generated by plot.py at 2019-03-19 18:46:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 863.72 Mbit/s
95th percentile per-packet one-way delay: 76.230 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 863.72 Mbit/s
95th percentile per-packet one-way delay: 76.230 ms
Loss rate: 0.68%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-19 15:14:56

End at: 2019-03-19 15:15:26

Local clock offset: 0.308 ms

Remote clock offset: -0.135 ms

Below is generated by plot.py at 2019-03-19 18:46:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.26 Mbit/s

95th percentile per-packet one-way delay: 59.152 ms

Loss rate: 0.40%

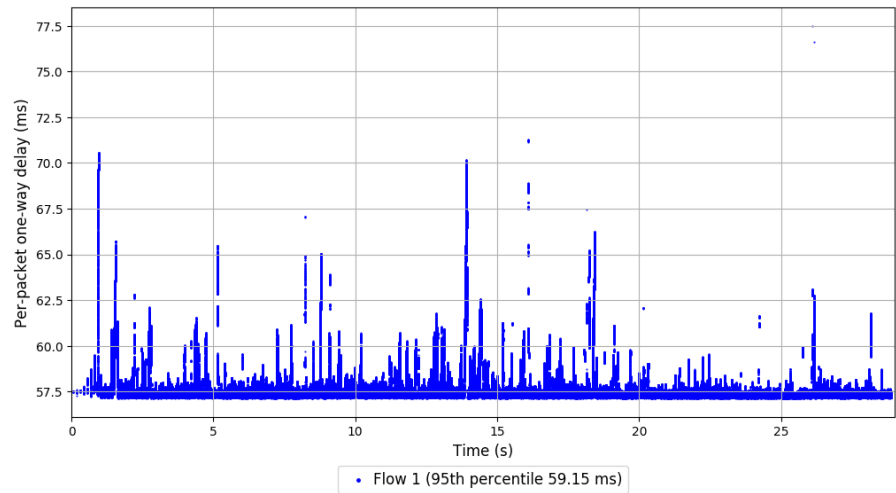
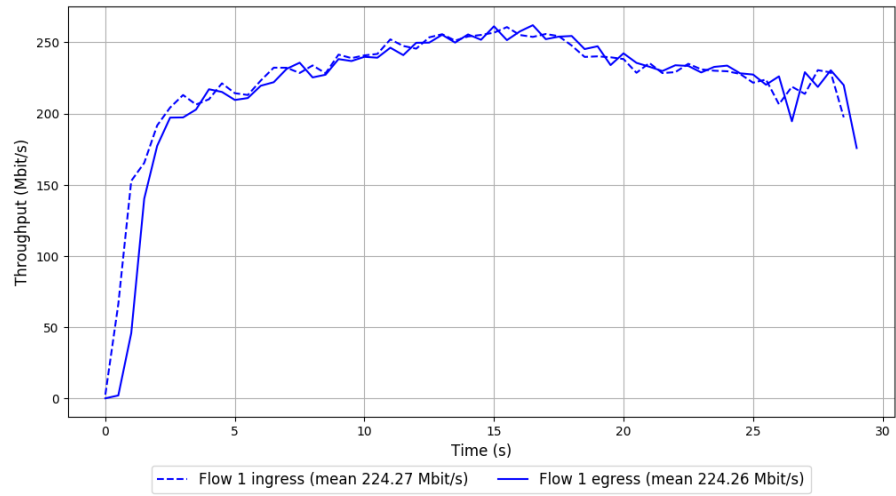
-- Flow 1:

Average throughput: 224.26 Mbit/s

95th percentile per-packet one-way delay: 59.152 ms

Loss rate: 0.40%

Run 1: Report of Indigo — Data Link

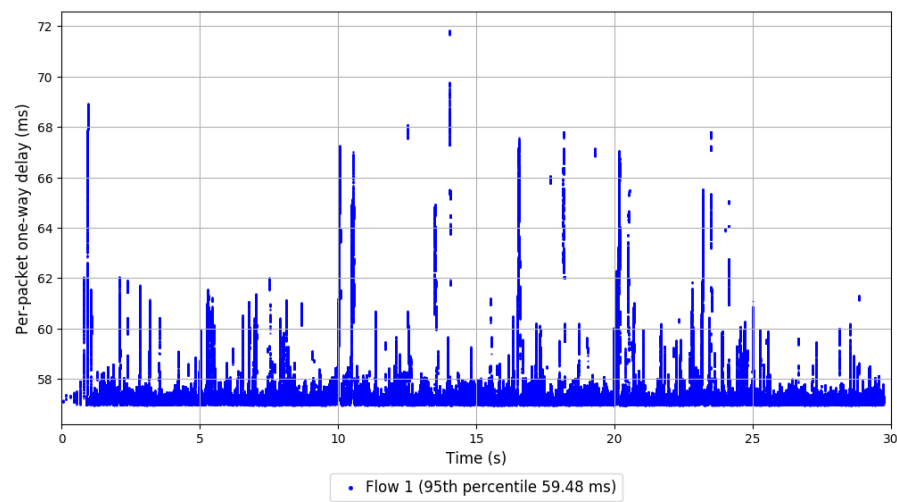
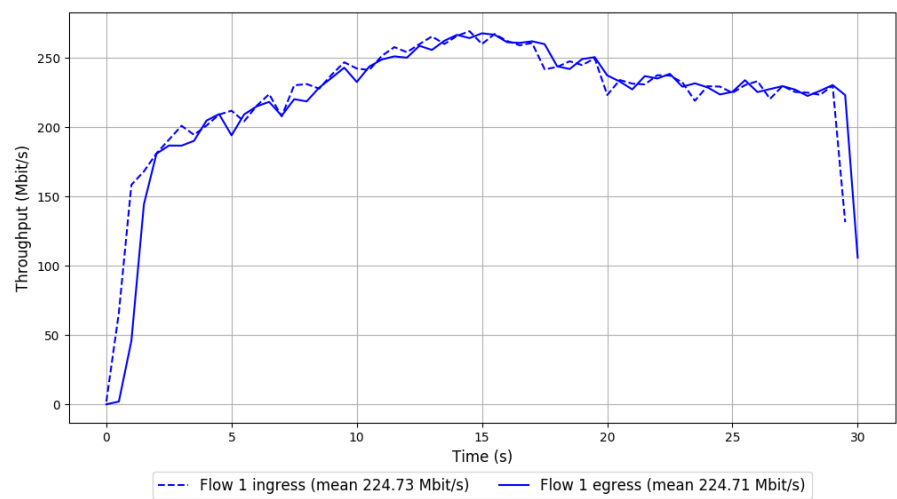


Run 2: Statistics of Indigo

Start at: 2019-03-19 15:49:23
End at: 2019-03-19 15:49:53
Local clock offset: -0.04 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2019-03-19 18:46:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 224.71 Mbit/s
95th percentile per-packet one-way delay: 59.477 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 224.71 Mbit/s
95th percentile per-packet one-way delay: 59.477 ms
Loss rate: 0.40%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-03-19 16:23:20

End at: 2019-03-19 16:23:50

Local clock offset: -0.008 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2019-03-19 18:46:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.26 Mbit/s

95th percentile per-packet one-way delay: 59.484 ms

Loss rate: 0.37%

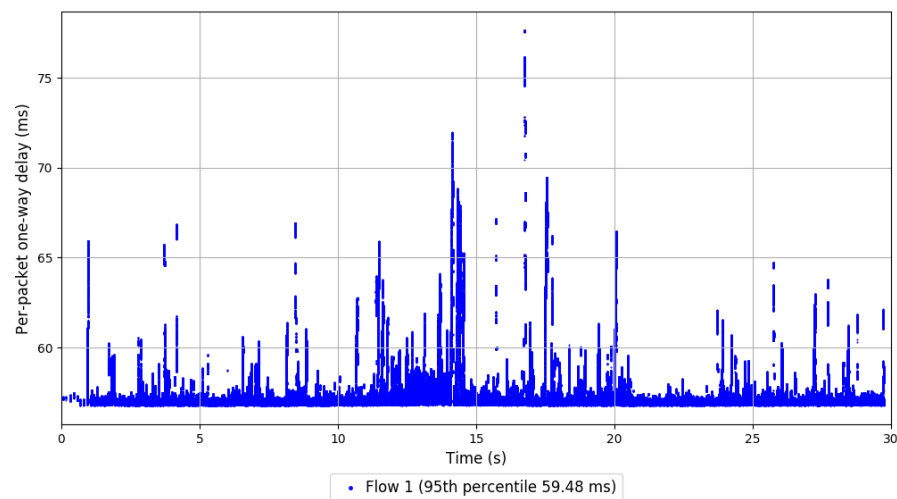
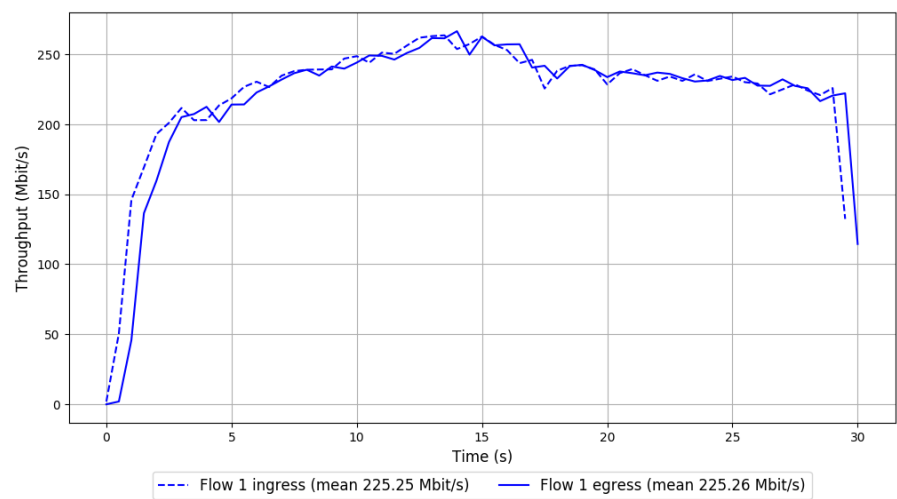
-- Flow 1:

Average throughput: 225.26 Mbit/s

95th percentile per-packet one-way delay: 59.484 ms

Loss rate: 0.37%

Run 3: Report of Indigo — Data Link

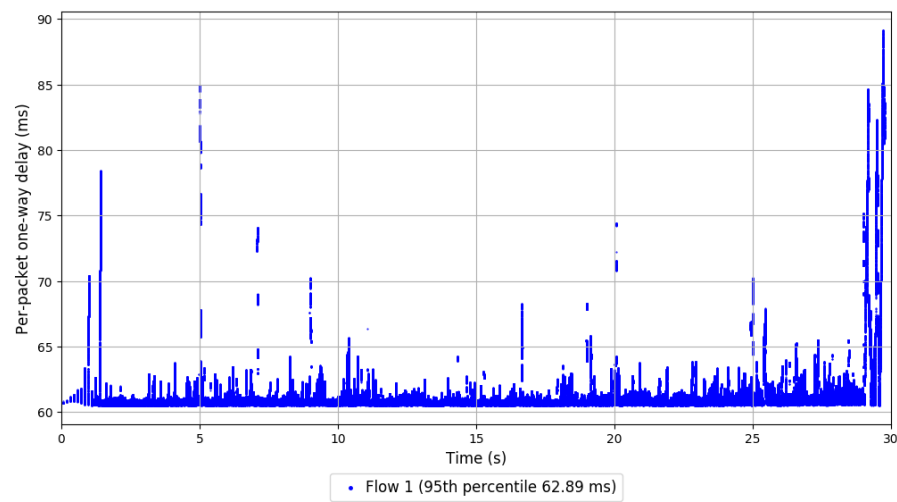
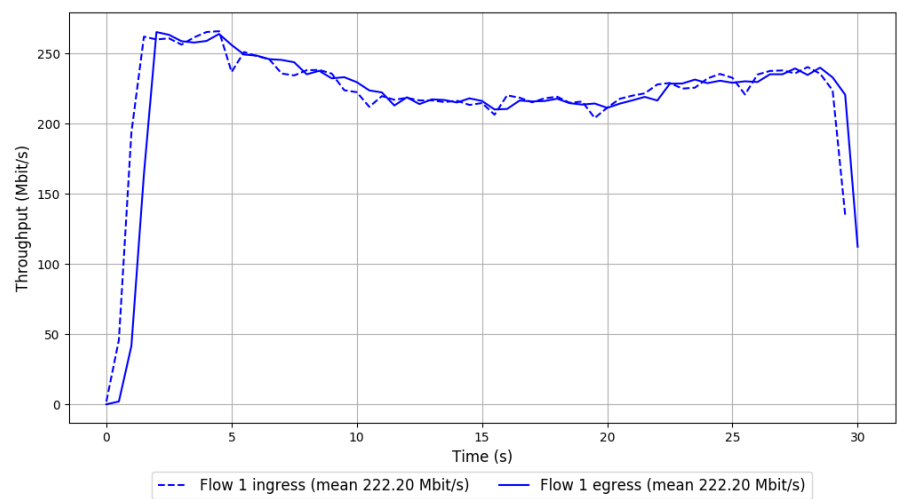


Run 4: Statistics of Indigo

Start at: 2019-03-19 16:59:04
End at: 2019-03-19 16:59:34
Local clock offset: -0.016 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2019-03-19 18:46:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.20 Mbit/s
95th percentile per-packet one-way delay: 62.889 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 222.20 Mbit/s
95th percentile per-packet one-way delay: 62.889 ms
Loss rate: 0.41%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-19 17:33:54

End at: 2019-03-19 17:34:24

Local clock offset: 0.366 ms

Remote clock offset: -0.766 ms

Below is generated by plot.py at 2019-03-19 18:46:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.56 Mbit/s

95th percentile per-packet one-way delay: 62.617 ms

Loss rate: 0.41%

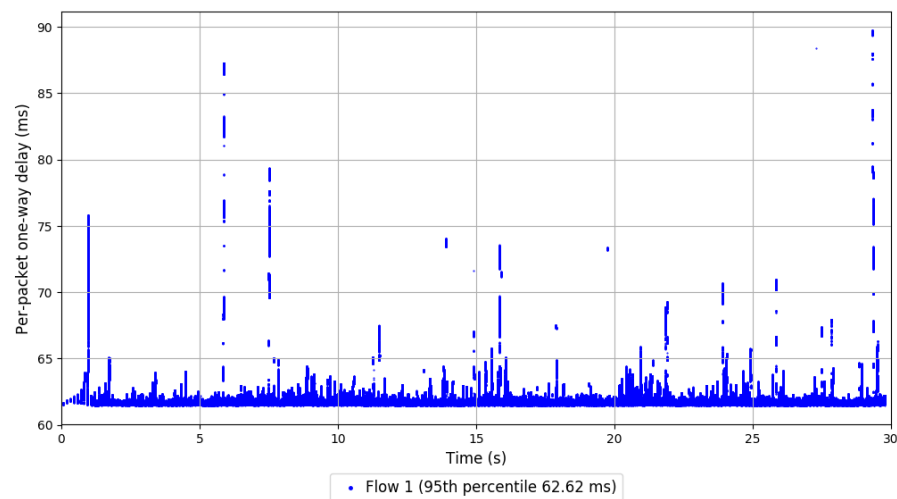
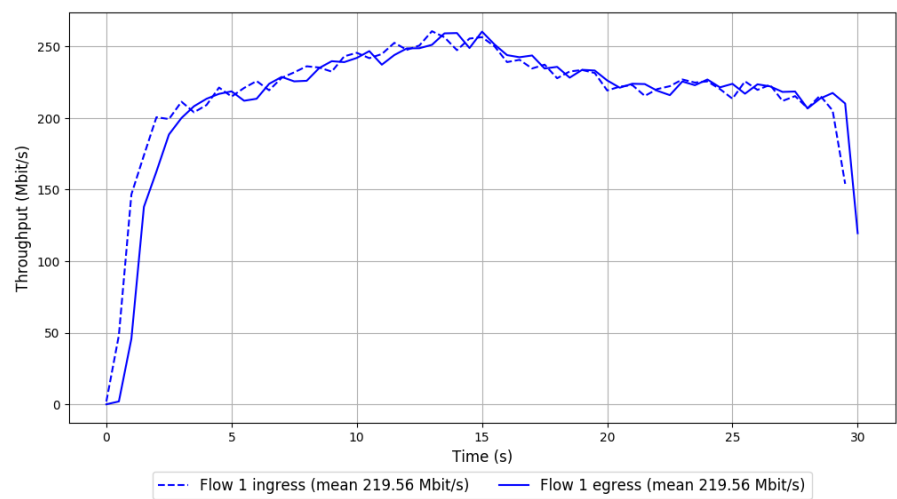
-- Flow 1:

Average throughput: 219.56 Mbit/s

95th percentile per-packet one-way delay: 62.617 ms

Loss rate: 0.41%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-19 15:10:15

End at: 2019-03-19 15:10:45

Local clock offset: 0.153 ms

Remote clock offset: -0.26 ms

Below is generated by plot.py at 2019-03-19 18:46:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.48 Mbit/s

95th percentile per-packet one-way delay: 87.018 ms

Loss rate: 0.40%

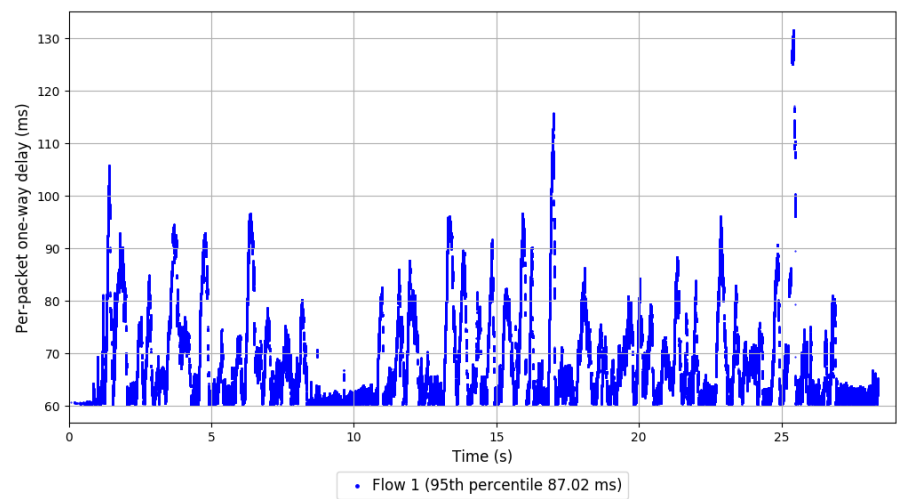
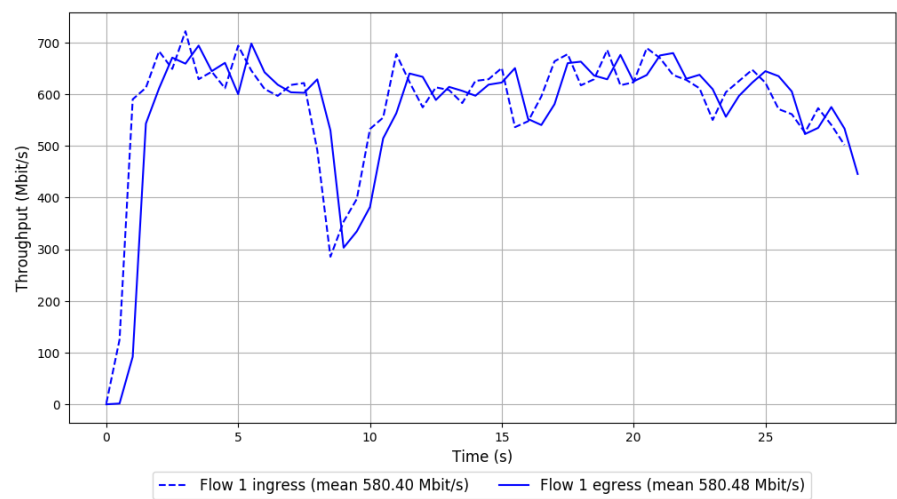
-- Flow 1:

Average throughput: 580.48 Mbit/s

95th percentile per-packet one-way delay: 87.018 ms

Loss rate: 0.40%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-19 15:44:33

End at: 2019-03-19 15:45:03

Local clock offset: 0.162 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2019-03-19 18:46:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.87 Mbit/s

95th percentile per-packet one-way delay: 84.026 ms

Loss rate: 0.41%

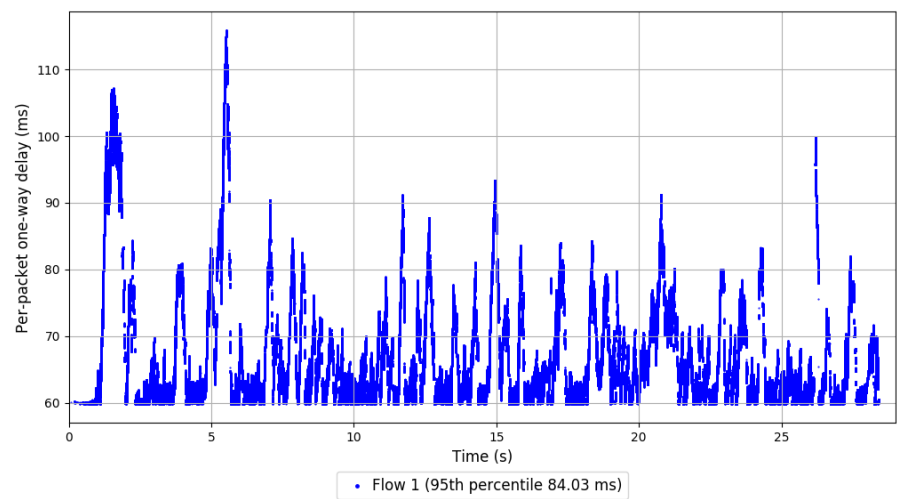
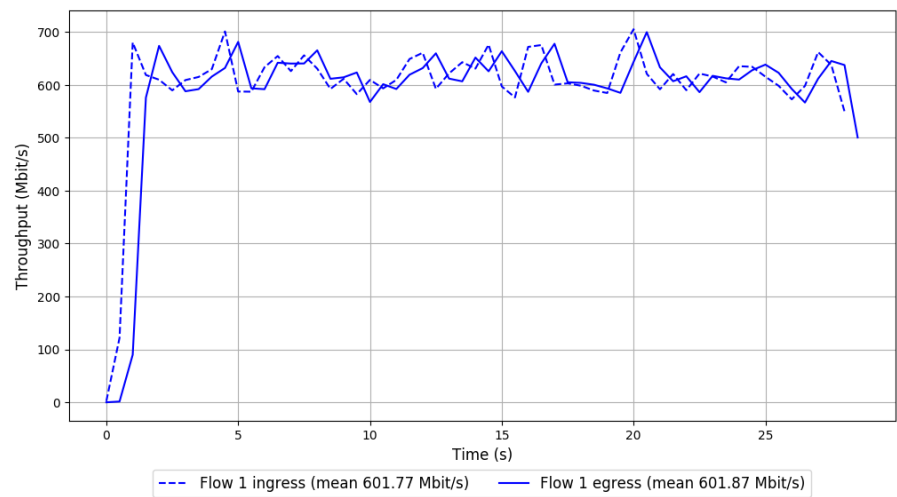
-- Flow 1:

Average throughput: 601.87 Mbit/s

95th percentile per-packet one-way delay: 84.026 ms

Loss rate: 0.41%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-19 16:18:33

End at: 2019-03-19 16:19:03

Local clock offset: 0.017 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2019-03-19 18:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 624.43 Mbit/s

95th percentile per-packet one-way delay: 82.751 ms

Loss rate: 0.38%

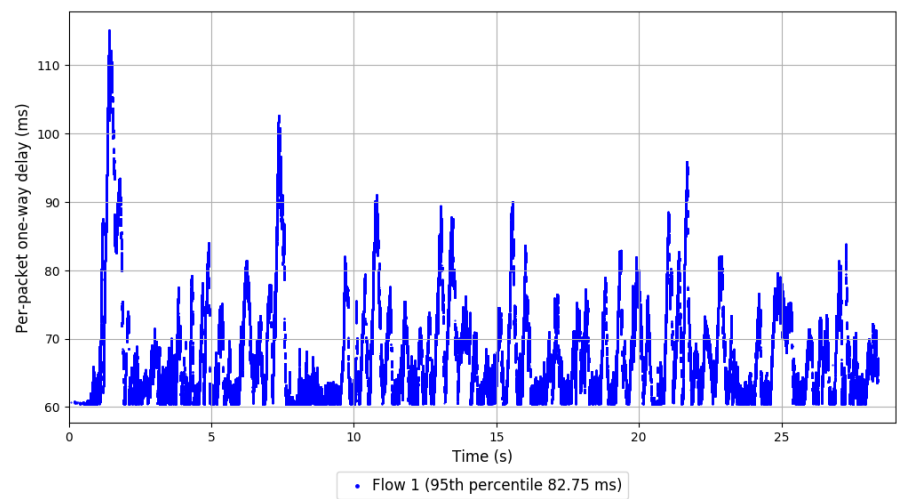
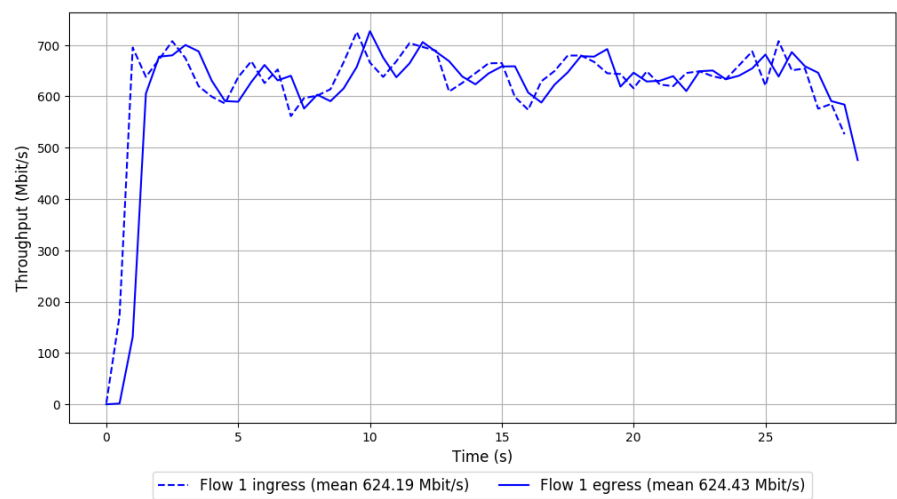
-- Flow 1:

Average throughput: 624.43 Mbit/s

95th percentile per-packet one-way delay: 82.751 ms

Loss rate: 0.38%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-19 16:54:24

End at: 2019-03-19 16:54:54

Local clock offset: 0.018 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2019-03-19 18:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.46 Mbit/s

95th percentile per-packet one-way delay: 78.757 ms

Loss rate: 0.41%

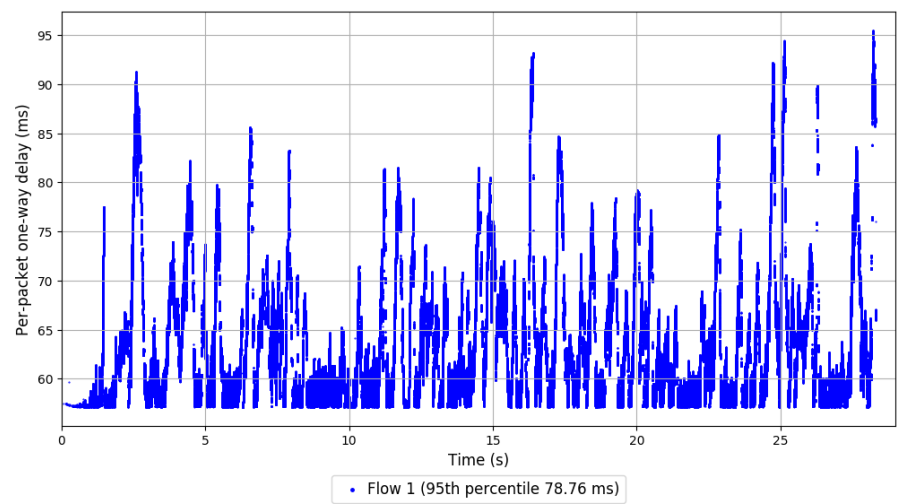
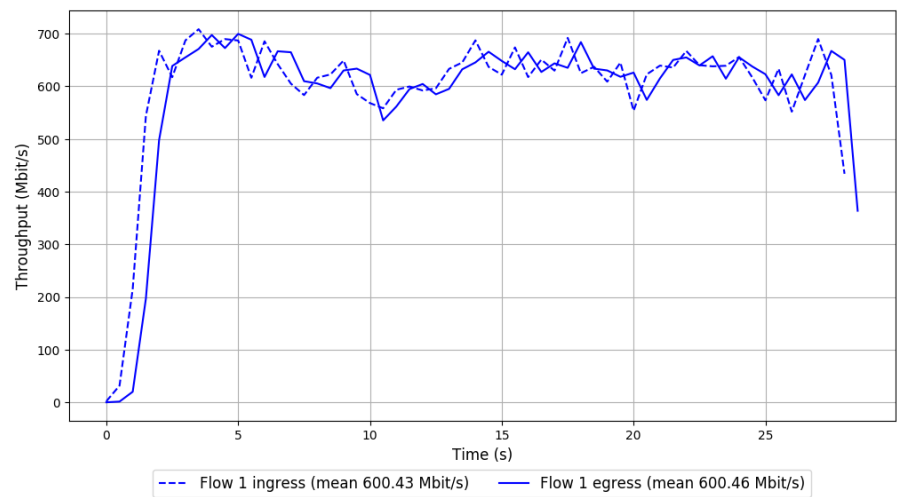
-- Flow 1:

Average throughput: 600.46 Mbit/s

95th percentile per-packet one-way delay: 78.757 ms

Loss rate: 0.41%

Run 4: Report of Indigo-MusesC3 — Data Link

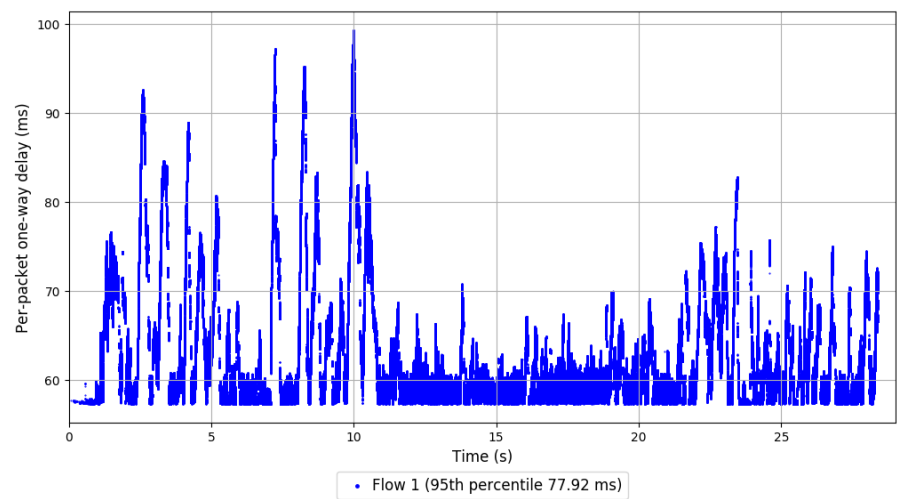
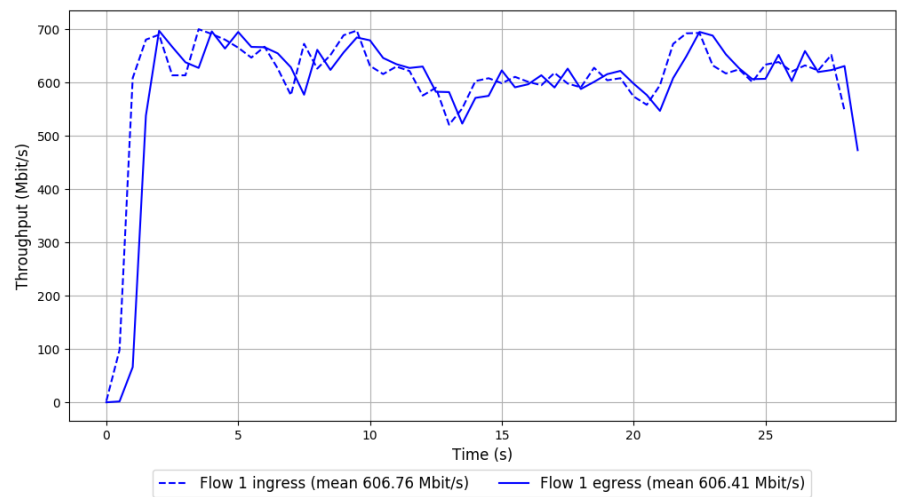


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-19 17:29:23
End at: 2019-03-19 17:29:53
Local clock offset: 0.181 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2019-03-19 18:47:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 606.41 Mbit/s
95th percentile per-packet one-way delay: 77.923 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 606.41 Mbit/s
95th percentile per-packet one-way delay: 77.923 ms
Loss rate: 0.46%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-19 15:17:49

End at: 2019-03-19 15:18:19

Local clock offset: 0.14 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-03-19 18:48:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 626.98 Mbit/s

95th percentile per-packet one-way delay: 88.768 ms

Loss rate: 0.53%

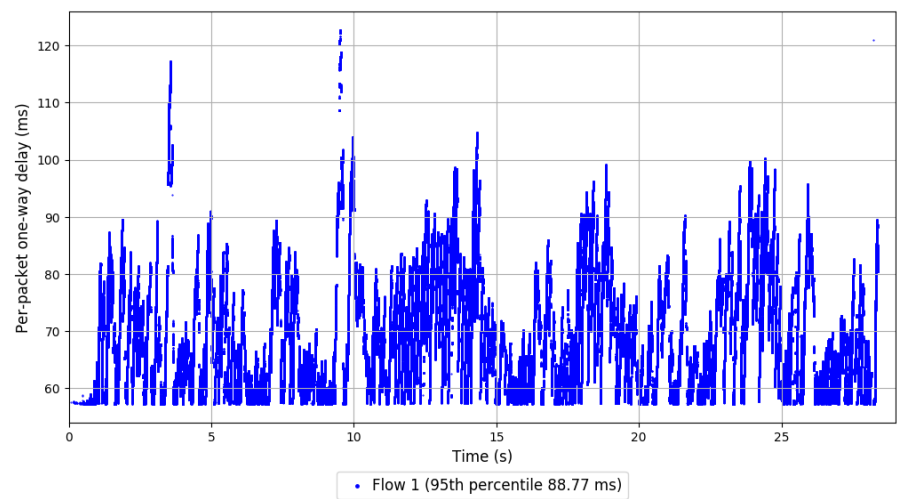
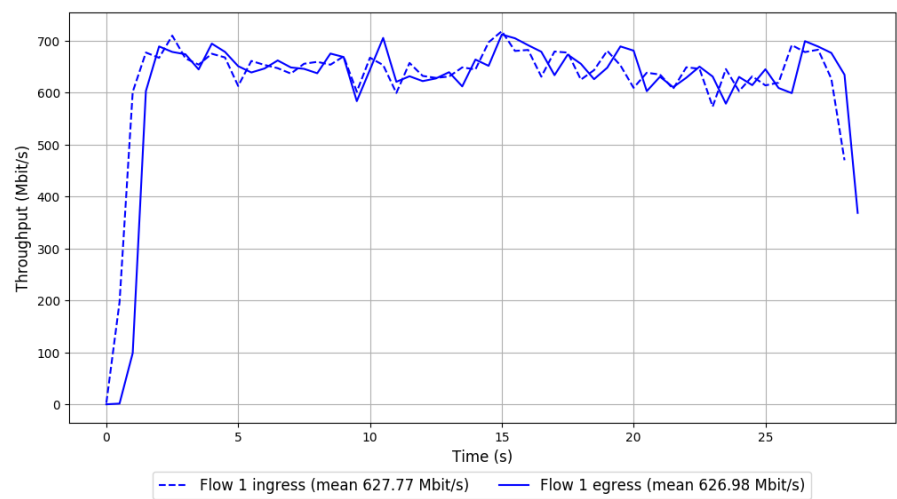
-- Flow 1:

Average throughput: 626.98 Mbit/s

95th percentile per-packet one-way delay: 88.768 ms

Loss rate: 0.53%

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-19 15:52:13

End at: 2019-03-19 15:52:43

Local clock offset: 0.067 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2019-03-19 18:50:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.03 Mbit/s

95th percentile per-packet one-way delay: 92.302 ms

Loss rate: 0.48%

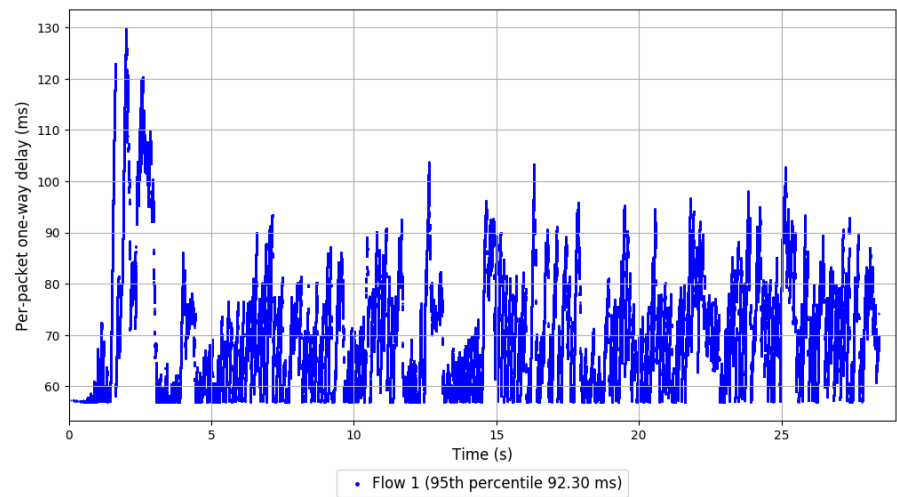
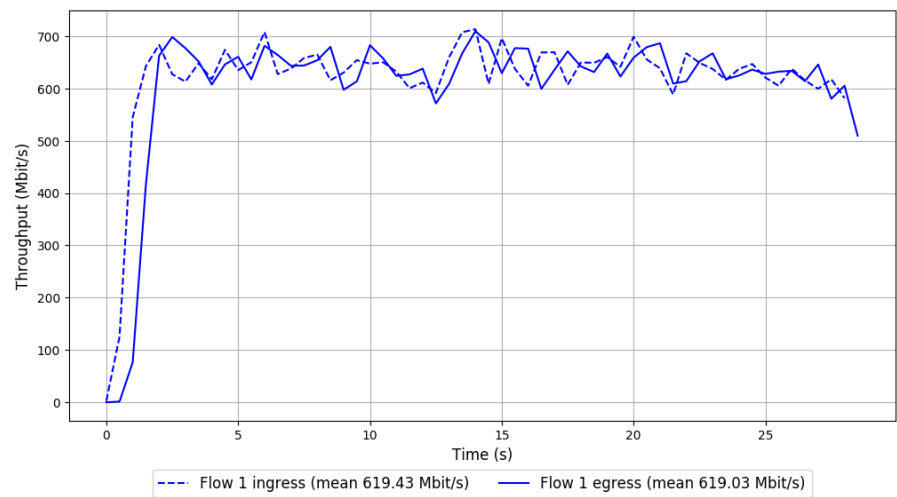
-- Flow 1:

Average throughput: 619.03 Mbit/s

95th percentile per-packet one-way delay: 92.302 ms

Loss rate: 0.48%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-19 16:26:12

End at: 2019-03-19 16:26:42

Local clock offset: 0.226 ms

Remote clock offset: -0.434 ms

Below is generated by plot.py at 2019-03-19 18:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 623.38 Mbit/s

95th percentile per-packet one-way delay: 90.676 ms

Loss rate: 0.47%

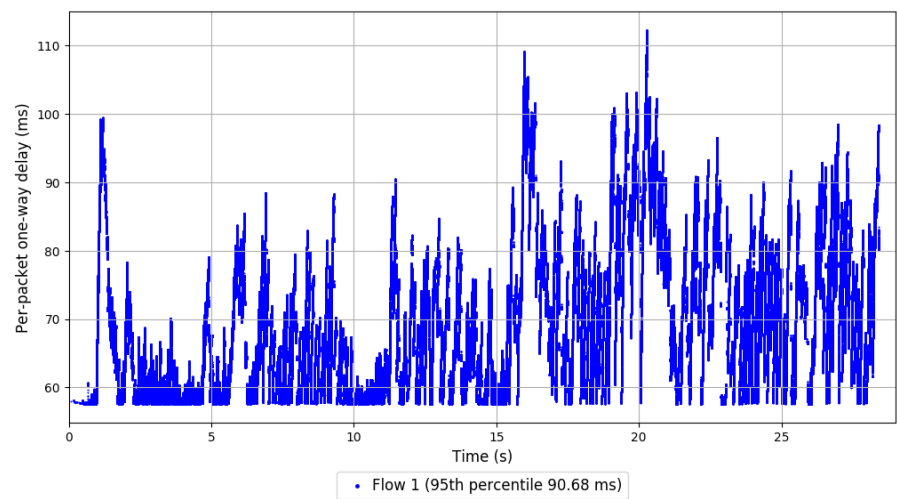
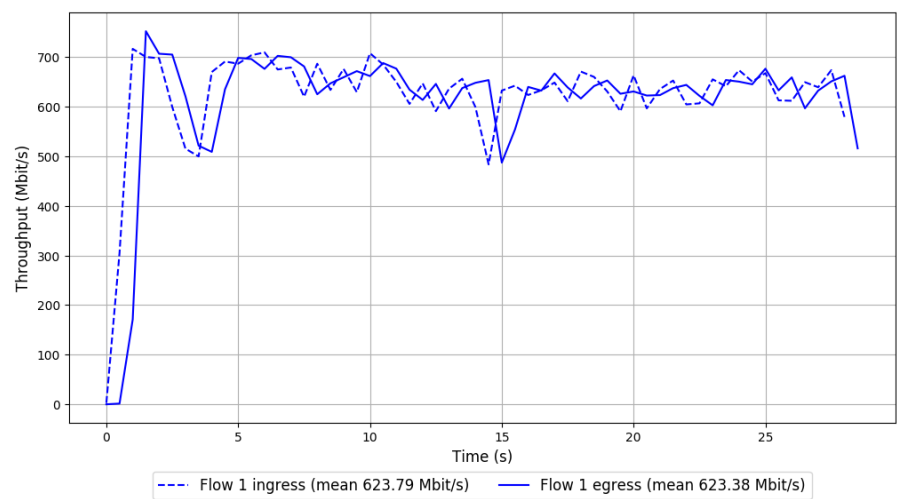
-- Flow 1:

Average throughput: 623.38 Mbit/s

95th percentile per-packet one-way delay: 90.676 ms

Loss rate: 0.47%

Run 3: Report of Indigo-MusesC5 — Data Link

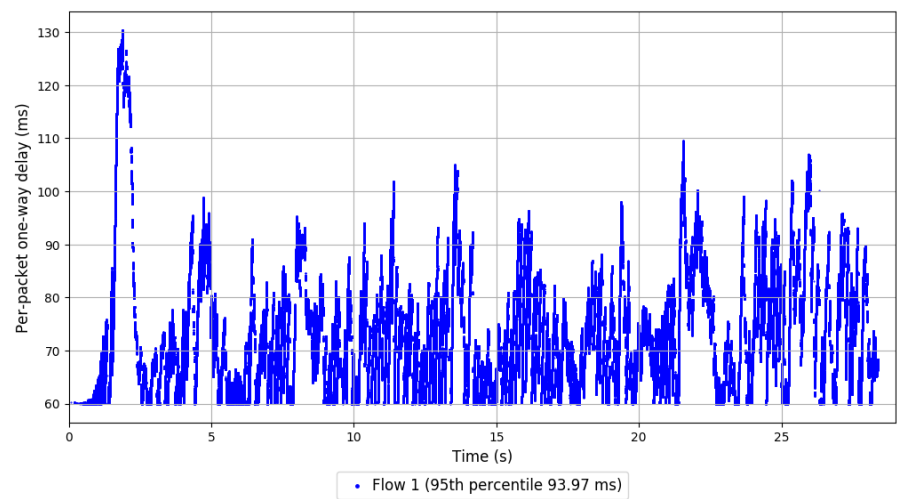
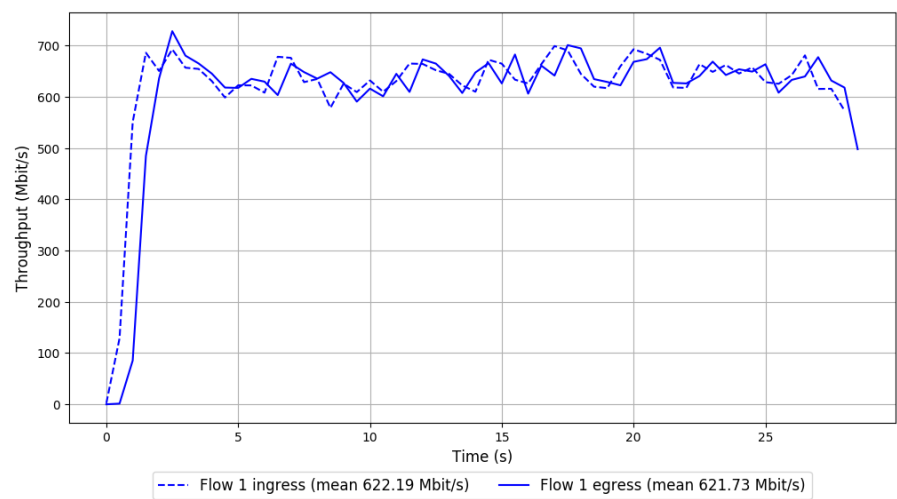


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-19 17:01:54
End at: 2019-03-19 17:02:24
Local clock offset: -0.384 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2019-03-19 18:57:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 621.73 Mbit/s
95th percentile per-packet one-way delay: 93.965 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 621.73 Mbit/s
95th percentile per-packet one-way delay: 93.965 ms
Loss rate: 0.49%

Run 4: Report of Indigo-MusesC5 — Data Link

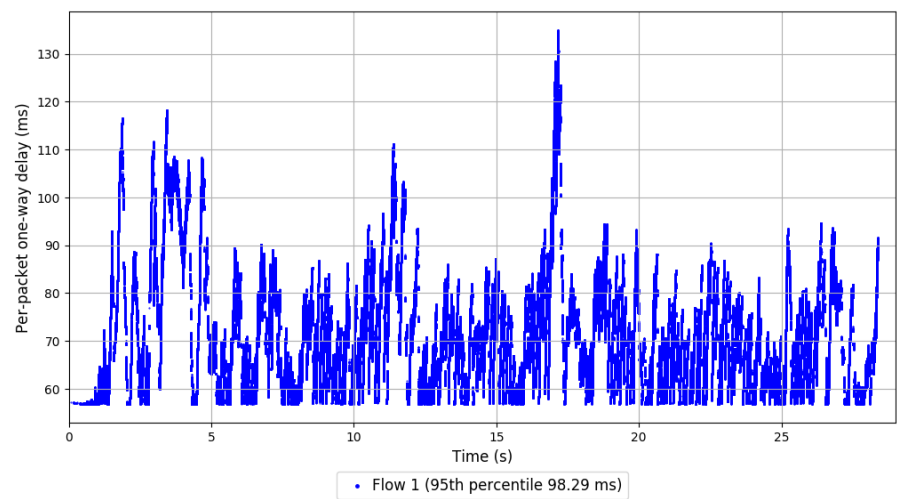
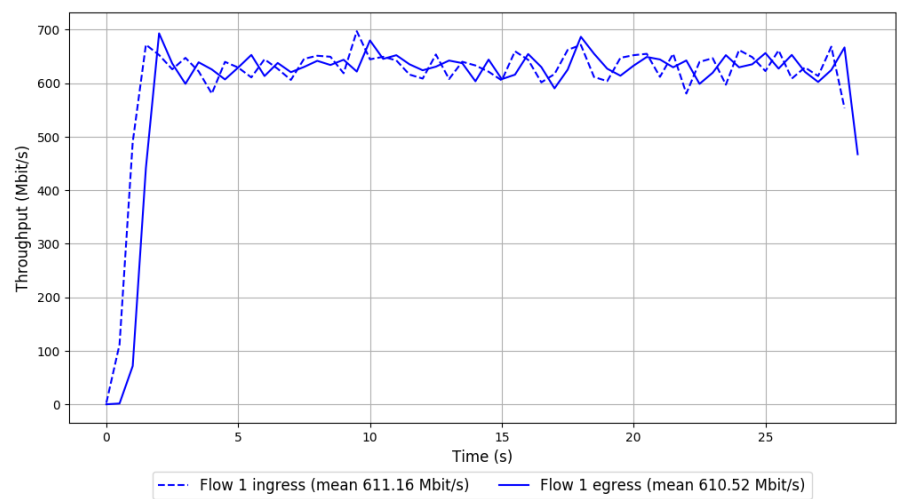


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-19 17:36:45
End at: 2019-03-19 17:37:15
Local clock offset: -0.433 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2019-03-19 18:57:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 610.52 Mbit/s
95th percentile per-packet one-way delay: 98.293 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 610.52 Mbit/s
95th percentile per-packet one-way delay: 98.293 ms
Loss rate: 0.51%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-19 15:00:16

End at: 2019-03-19 15:00:46

Local clock offset: -0.005 ms

Remote clock offset: -0.988 ms

Below is generated by plot.py at 2019-03-19 18:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.84 Mbit/s

95th percentile per-packet one-way delay: 85.725 ms

Loss rate: 0.47%

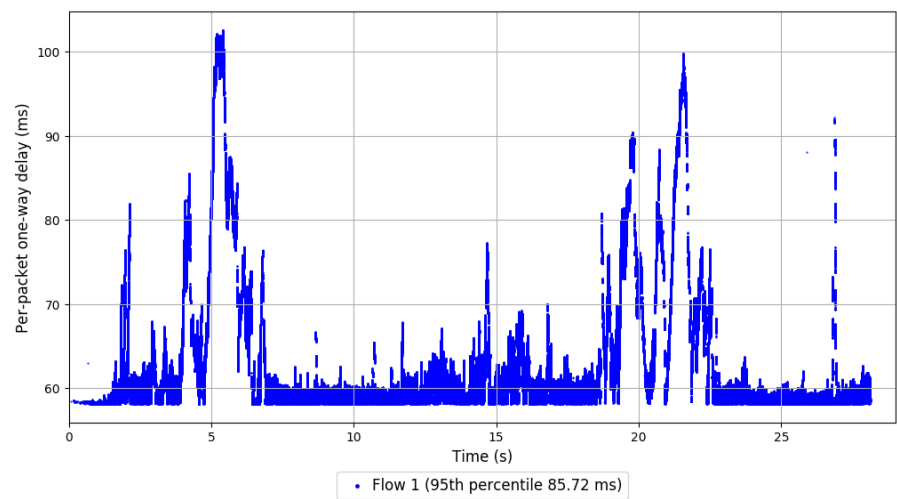
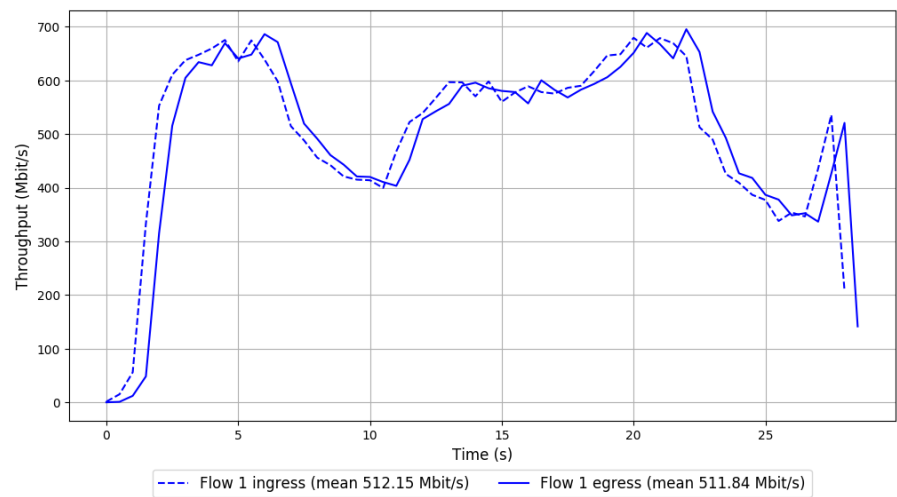
-- Flow 1:

Average throughput: 511.84 Mbit/s

95th percentile per-packet one-way delay: 85.725 ms

Loss rate: 0.47%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-19 15:34:43

End at: 2019-03-19 15:35:13

Local clock offset: 0.103 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2019-03-19 18:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.23 Mbit/s

95th percentile per-packet one-way delay: 84.627 ms

Loss rate: 0.42%

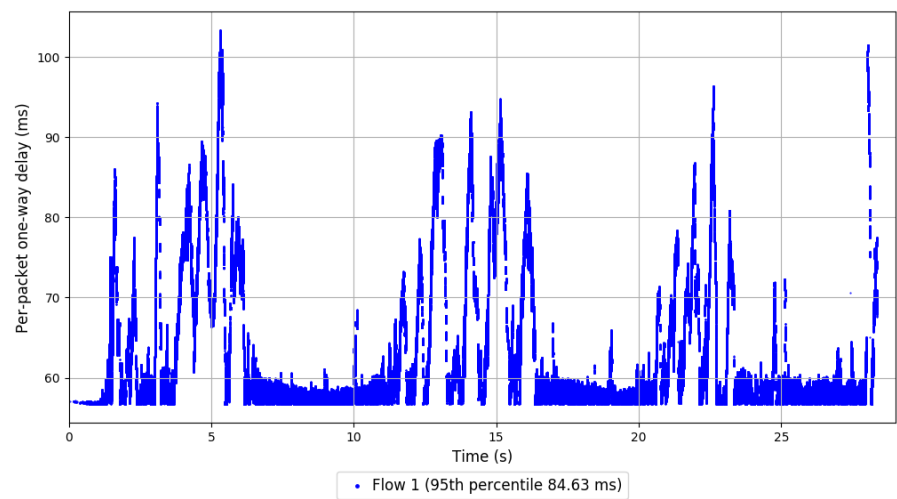
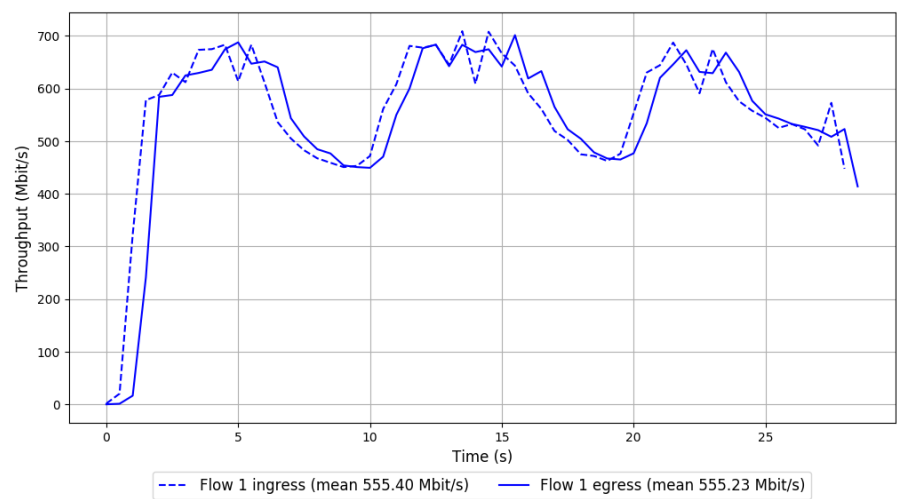
-- Flow 1:

Average throughput: 555.23 Mbit/s

95th percentile per-packet one-way delay: 84.627 ms

Loss rate: 0.42%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-19 16:08:43

End at: 2019-03-19 16:09:13

Local clock offset: 0.206 ms

Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-03-19 18:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 573.65 Mbit/s

95th percentile per-packet one-way delay: 97.508 ms

Loss rate: 0.35%

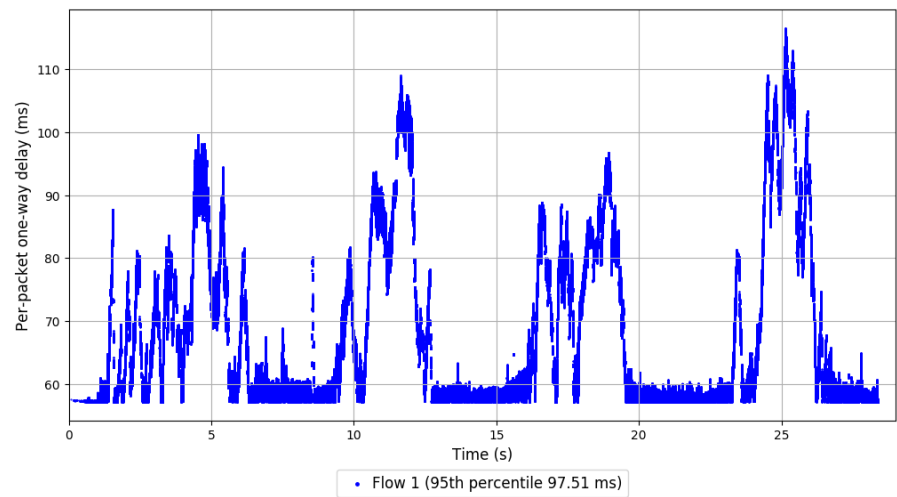
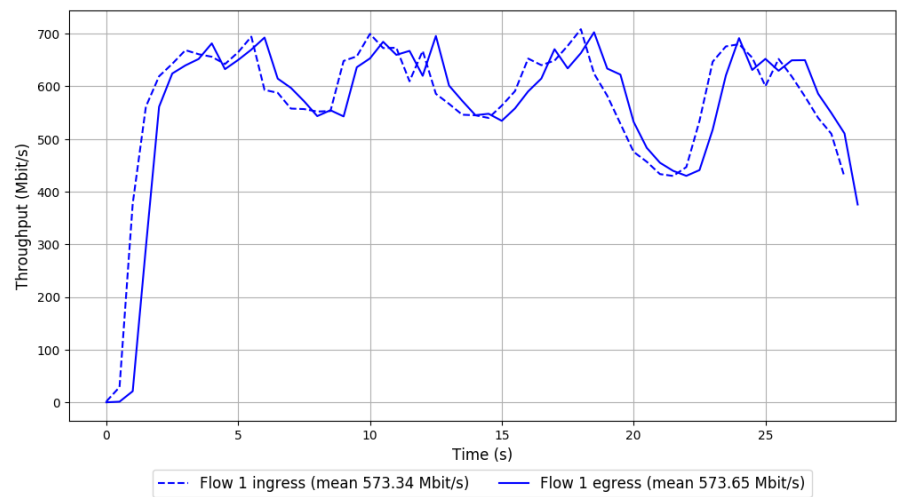
-- Flow 1:

Average throughput: 573.65 Mbit/s

95th percentile per-packet one-way delay: 97.508 ms

Loss rate: 0.35%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-19 16:43:42

End at: 2019-03-19 16:44:12

Local clock offset: 0.005 ms

Remote clock offset: -0.792 ms

Below is generated by plot.py at 2019-03-19 18:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.45 Mbit/s

95th percentile per-packet one-way delay: 96.031 ms

Loss rate: 0.43%

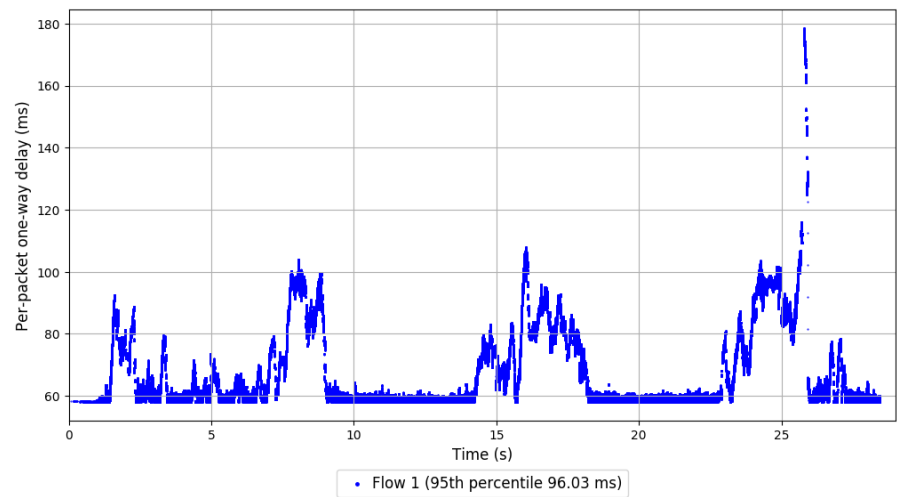
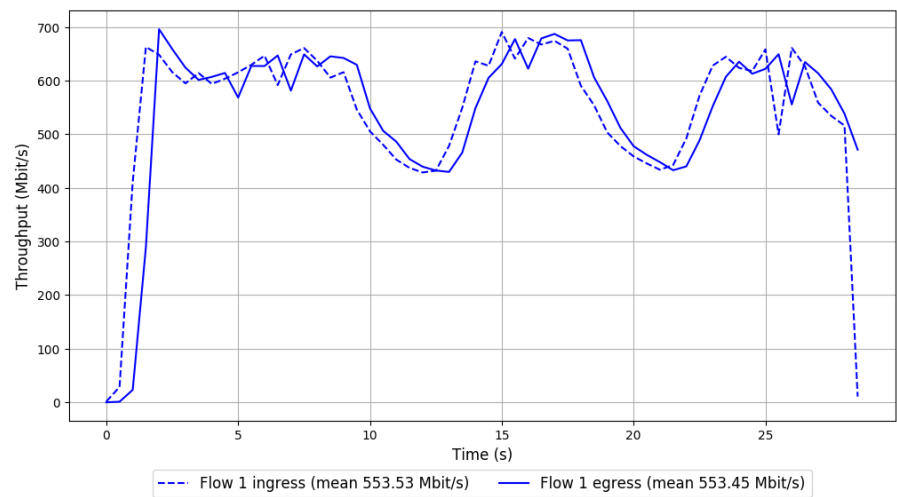
-- Flow 1:

Average throughput: 553.45 Mbit/s

95th percentile per-packet one-way delay: 96.031 ms

Loss rate: 0.43%

Run 4: Report of Indigo-MusesD — Data Link

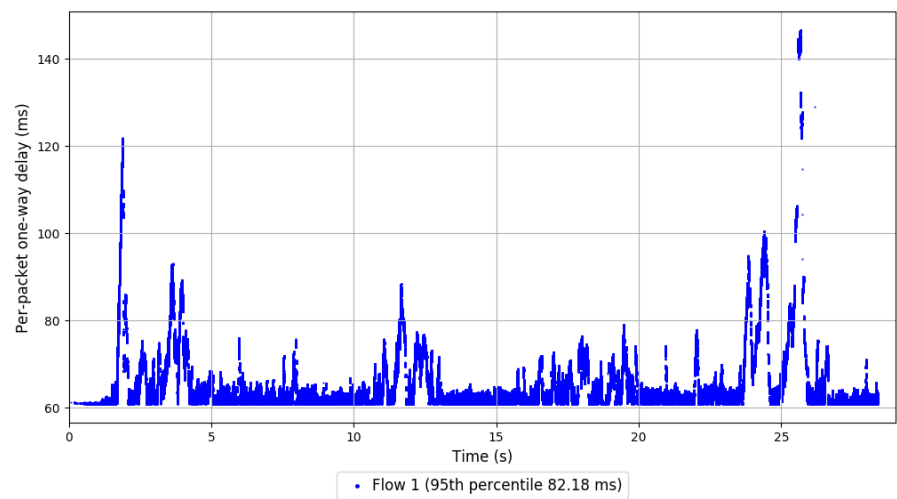
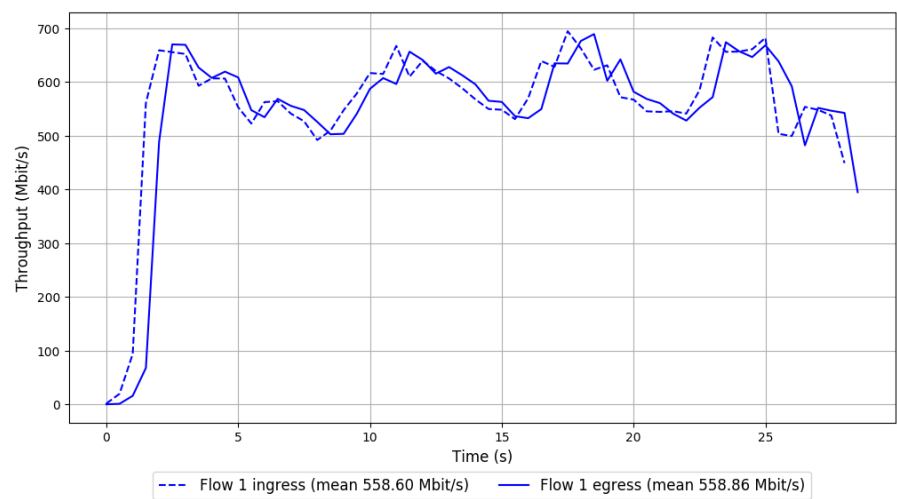


Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-19 17:19:08
End at: 2019-03-19 17:19:38
Local clock offset: -0.016 ms
Remote clock offset: -0.821 ms

Below is generated by plot.py at 2019-03-19 19:00:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 558.86 Mbit/s
95th percentile per-packet one-way delay: 82.179 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 558.86 Mbit/s
95th percentile per-packet one-way delay: 82.179 ms
Loss rate: 0.38%

Run 5: Report of Indigo-MusesD — Data Link

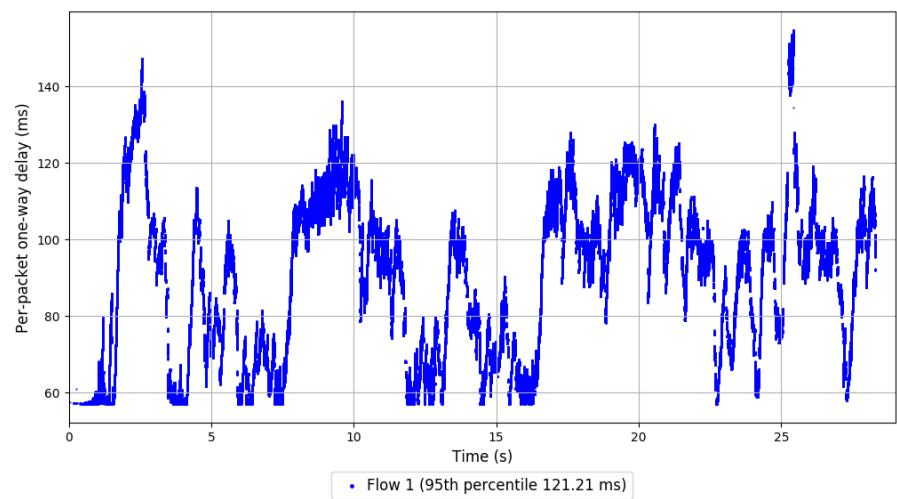
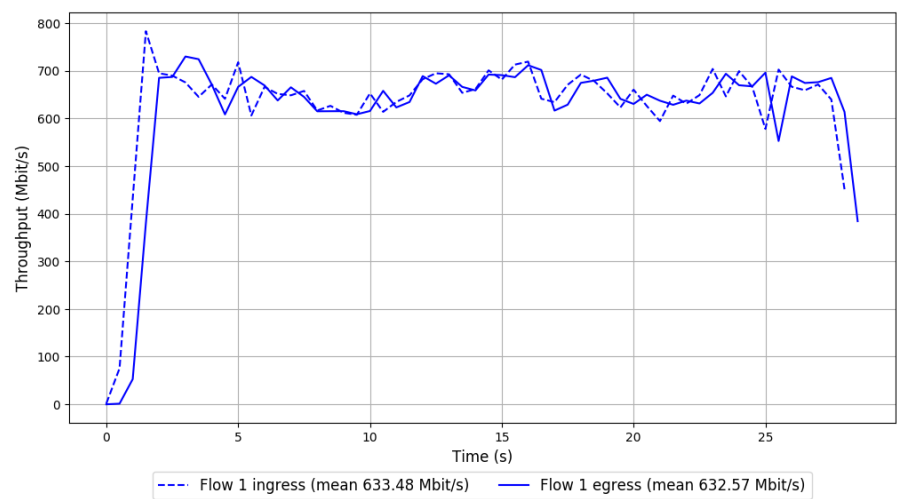


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-19 14:54:17
End at: 2019-03-19 14:54:47
Local clock offset: -0.06 ms
Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2019-03-19 19:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 632.57 Mbit/s
95th percentile per-packet one-way delay: 121.207 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 632.57 Mbit/s
95th percentile per-packet one-way delay: 121.207 ms
Loss rate: 0.57%
```

Run 1: Report of Indigo-MusesT — Data Link

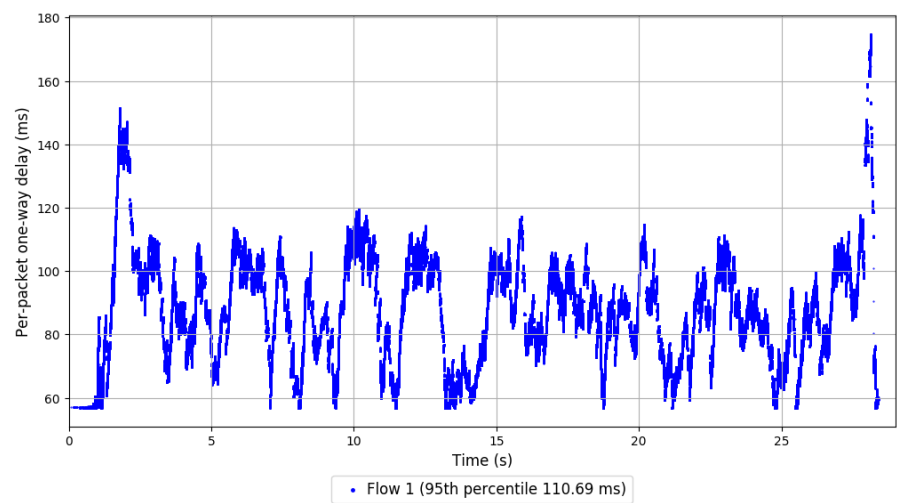
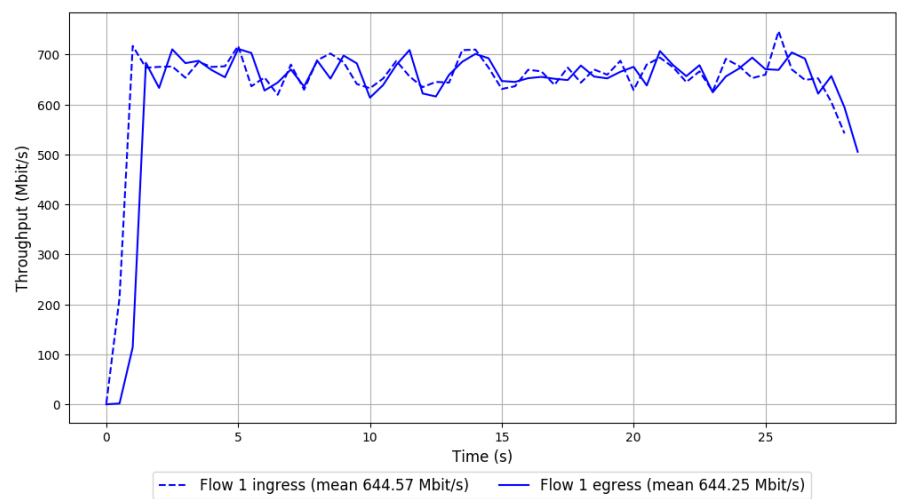


Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-19 15:29:18
End at: 2019-03-19 15:29:48
Local clock offset: -0.292 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2019-03-19 19:06:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 644.25 Mbit/s
95th percentile per-packet one-way delay: 110.686 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 644.25 Mbit/s
95th percentile per-packet one-way delay: 110.686 ms
Loss rate: 0.47%

Run 2: Report of Indigo-MusesT — Data Link

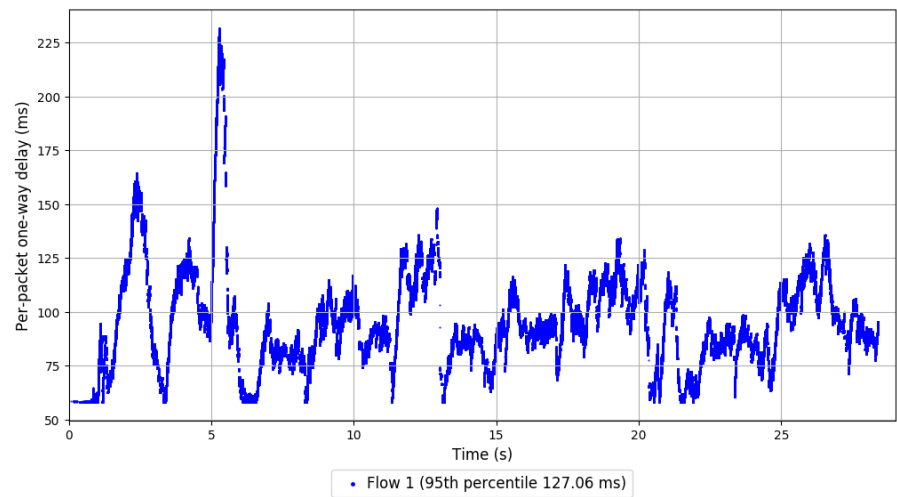
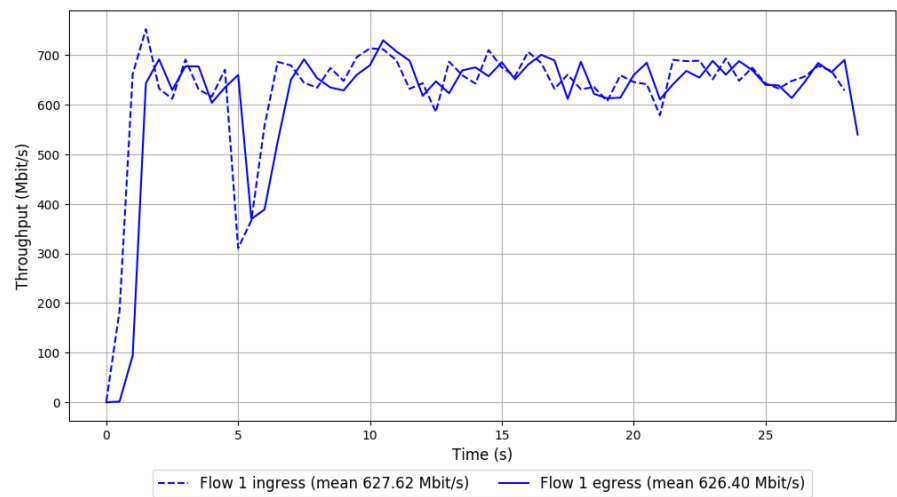


Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-19 16:03:09
End at: 2019-03-19 16:03:39
Local clock offset: 0.059 ms
Remote clock offset: -0.882 ms

Below is generated by plot.py at 2019-03-19 19:06:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 626.40 Mbit/s
95th percentile per-packet one-way delay: 127.061 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 626.40 Mbit/s
95th percentile per-packet one-way delay: 127.061 ms
Loss rate: 0.61%

Run 3: Report of Indigo-MusesT — Data Link

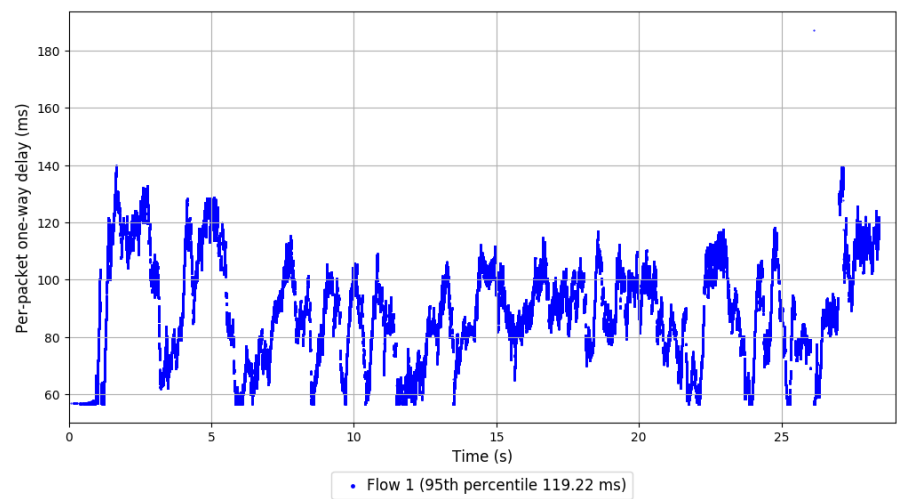
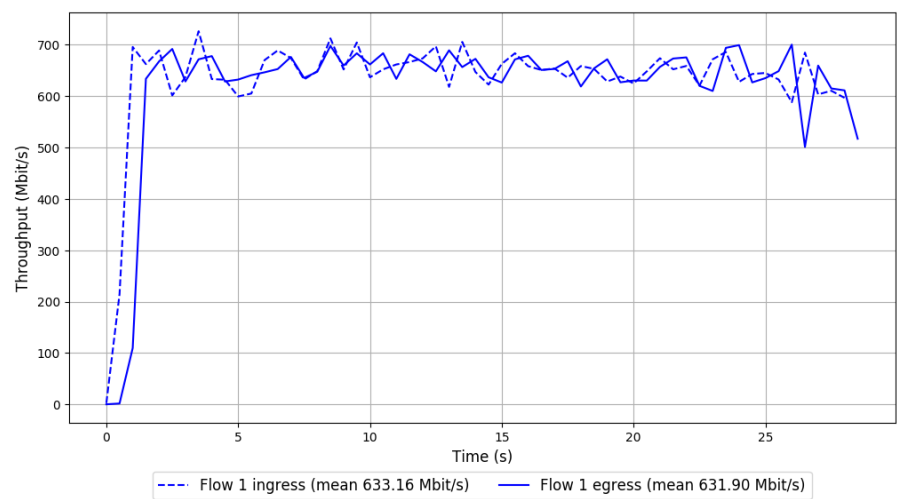


Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-19 16:38:15
End at: 2019-03-19 16:38:45
Local clock offset: -0.425 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2019-03-19 19:07:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 631.90 Mbit/s
95th percentile per-packet one-way delay: 119.216 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 631.90 Mbit/s
95th percentile per-packet one-way delay: 119.216 ms
Loss rate: 0.60%

Run 4: Report of Indigo-MusesT — Data Link

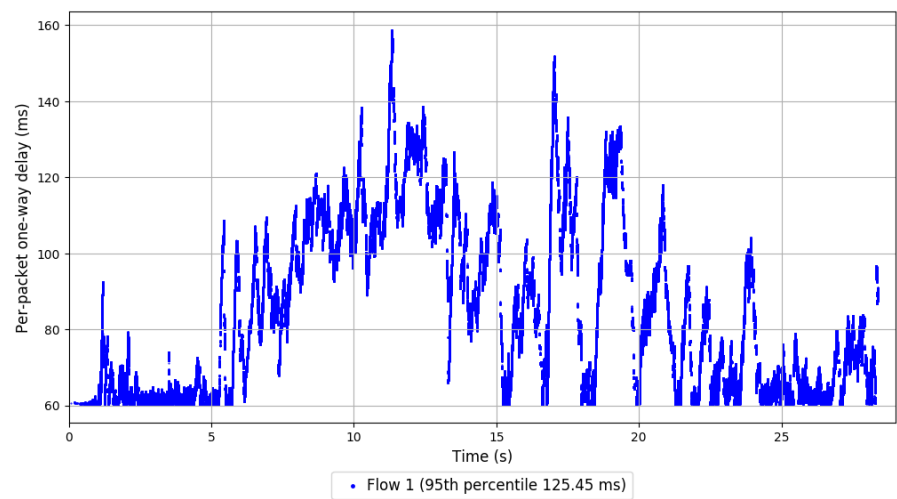
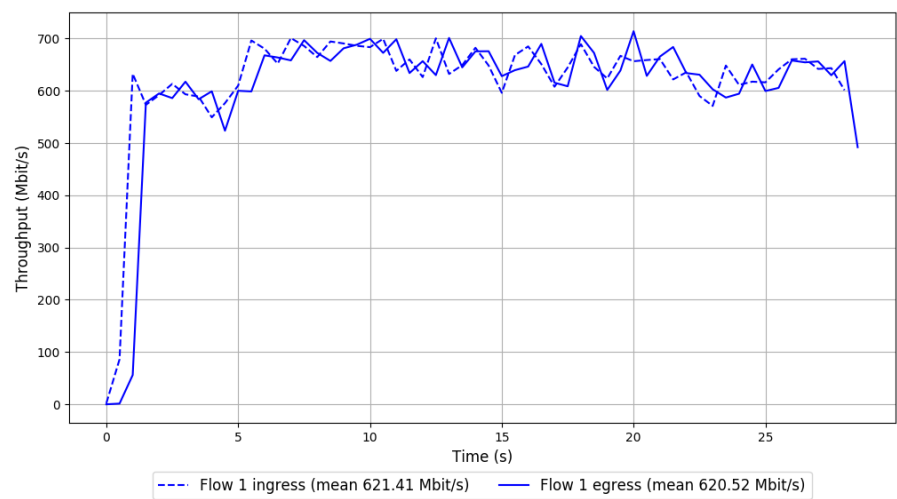


Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-19 17:13:40
End at: 2019-03-19 17:14:10
Local clock offset: 0.242 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2019-03-19 19:07:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 620.52 Mbit/s
95th percentile per-packet one-way delay: 125.449 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 620.52 Mbit/s
95th percentile per-packet one-way delay: 125.449 ms
Loss rate: 0.57%

Run 5: Report of Indigo-MusesT — Data Link

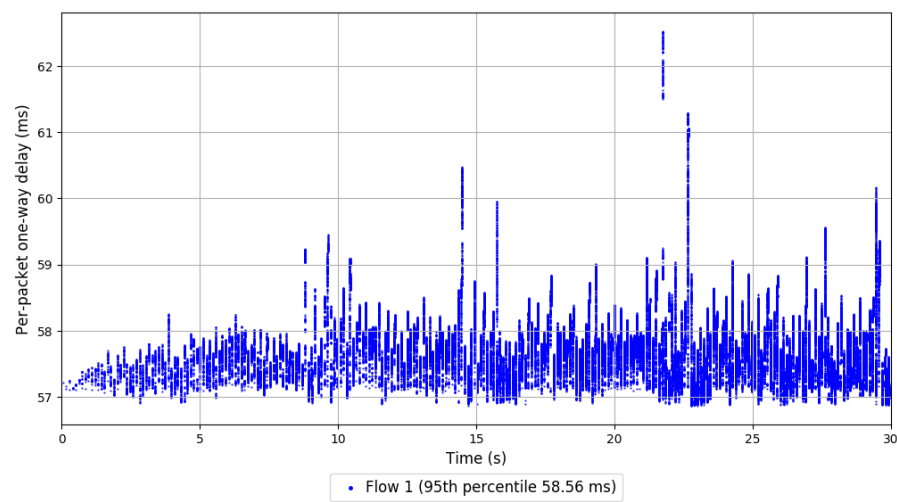
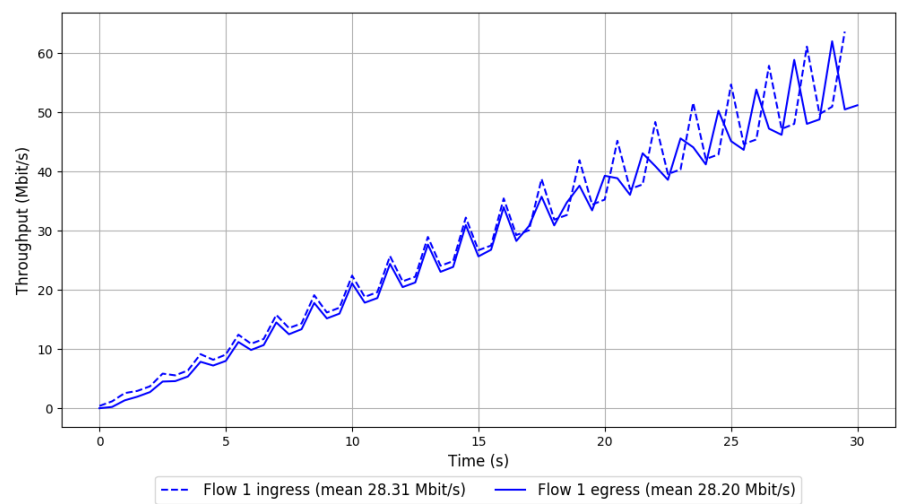


Run 1: Statistics of LEDBAT

Start at: 2019-03-19 15:16:36
End at: 2019-03-19 15:17:06
Local clock offset: -0.494 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2019-03-19 19:07:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.20 Mbit/s
95th percentile per-packet one-way delay: 58.564 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 28.20 Mbit/s
95th percentile per-packet one-way delay: 58.564 ms
Loss rate: 0.76%

Run 1: Report of LEDBAT — Data Link

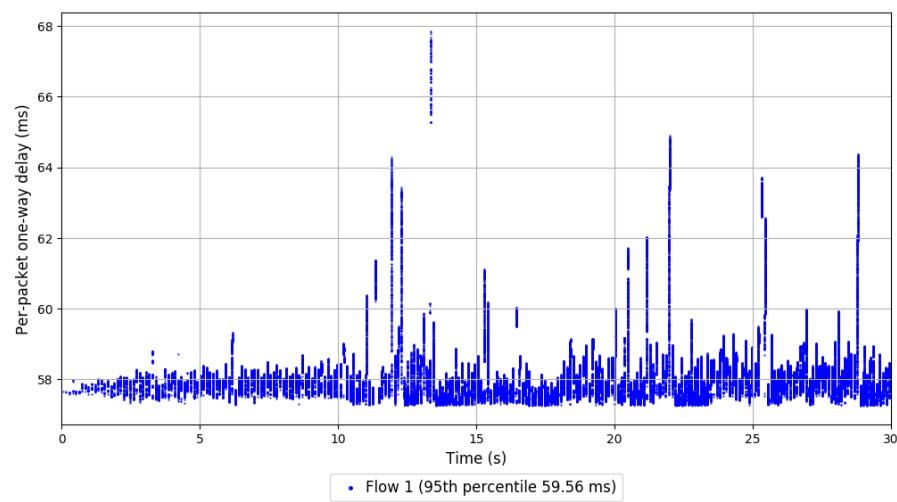
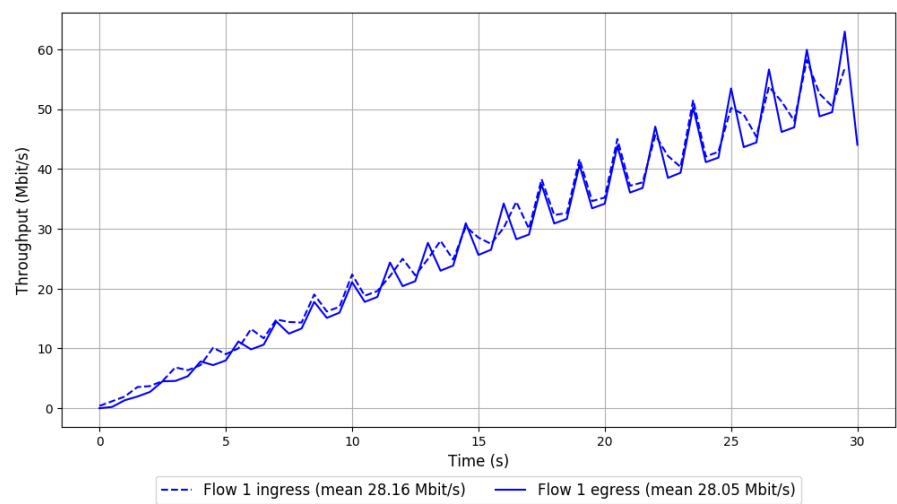


Run 2: Statistics of LEDBAT

Start at: 2019-03-19 15:51:01
End at: 2019-03-19 15:51:31
Local clock offset: -0.114 ms
Remote clock offset: -0.226 ms

Below is generated by plot.py at 2019-03-19 19:07:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 59.565 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 59.565 ms
Loss rate: 0.76%

Run 2: Report of LEDBAT — Data Link

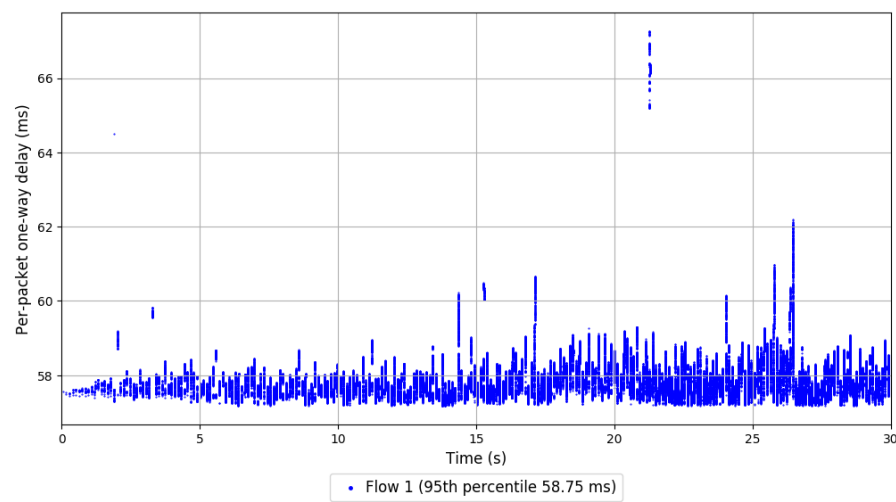
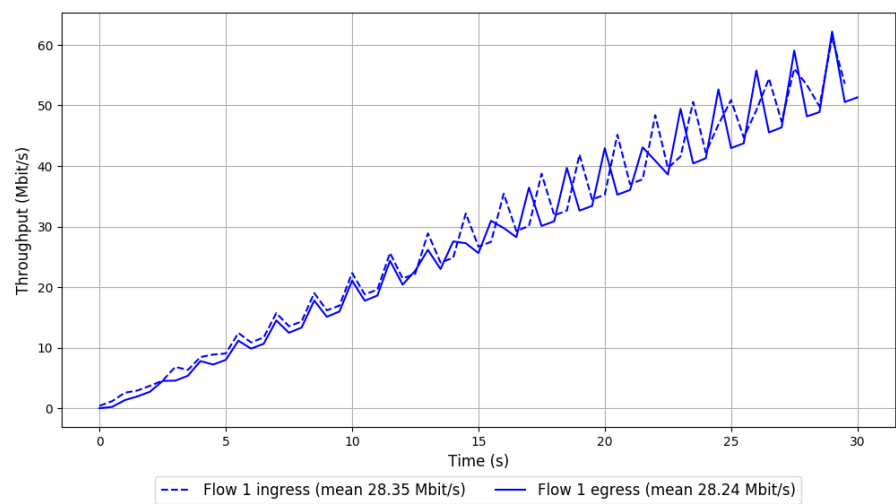


Run 3: Statistics of LEDBAT

Start at: 2019-03-19 16:25:00
End at: 2019-03-19 16:25:30
Local clock offset: -0.009 ms
Remote clock offset: -0.307 ms

Below is generated by plot.py at 2019-03-19 19:07:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 58.753 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 28.24 Mbit/s
95th percentile per-packet one-way delay: 58.753 ms
Loss rate: 0.76%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-19 17:00:42

End at: 2019-03-19 17:01:12

Local clock offset: 0.214 ms

Remote clock offset: 0.605 ms

Below is generated by plot.py at 2019-03-19 19:07:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 57.894 ms

Loss rate: 0.76%

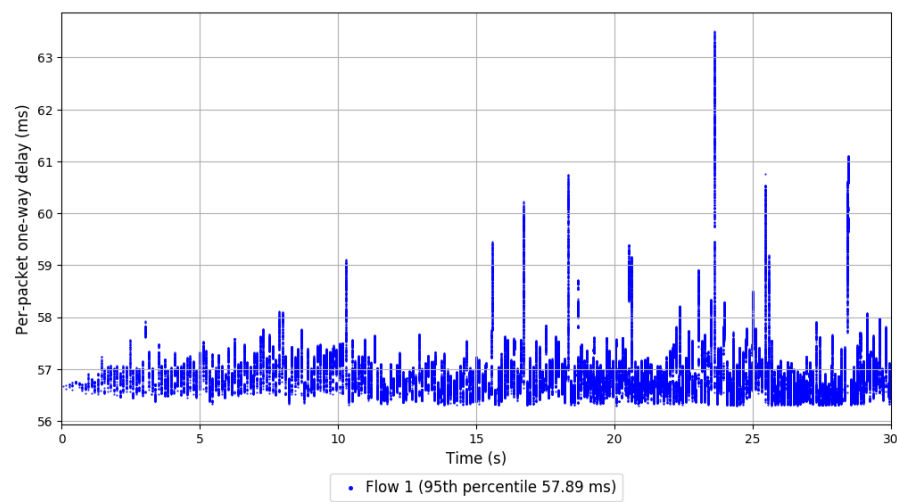
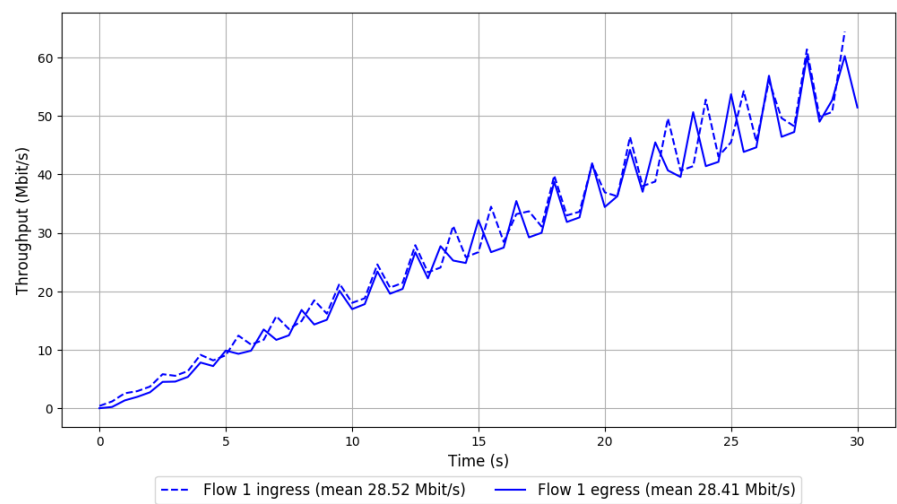
-- Flow 1:

Average throughput: 28.41 Mbit/s

95th percentile per-packet one-way delay: 57.894 ms

Loss rate: 0.76%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-19 17:35:32

End at: 2019-03-19 17:36:02

Local clock offset: 0.404 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2019-03-19 19:07:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 62.271 ms

Loss rate: 0.78%

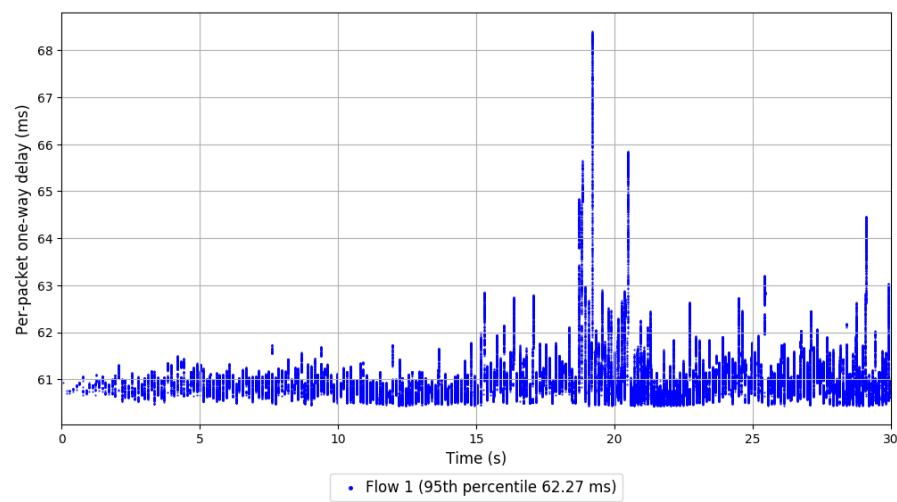
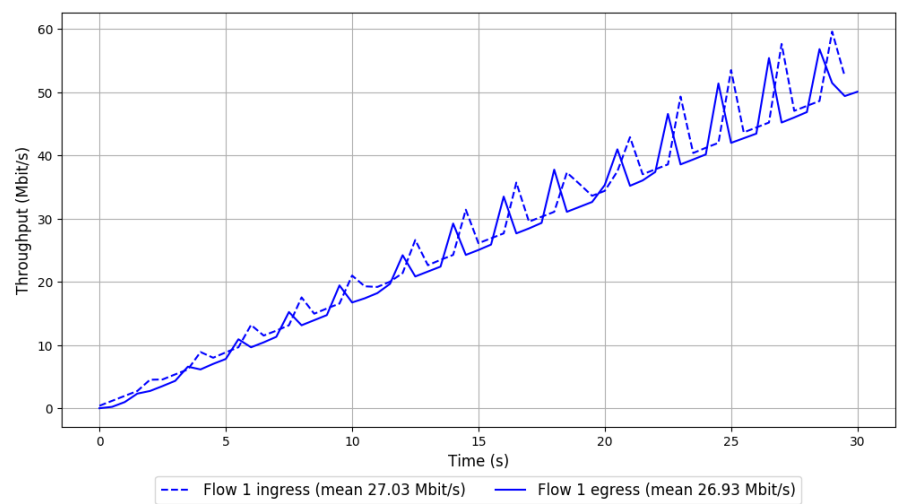
-- Flow 1:

Average throughput: 26.93 Mbit/s

95th percentile per-packet one-way delay: 62.271 ms

Loss rate: 0.78%

Run 5: Report of LEDBAT — Data Link

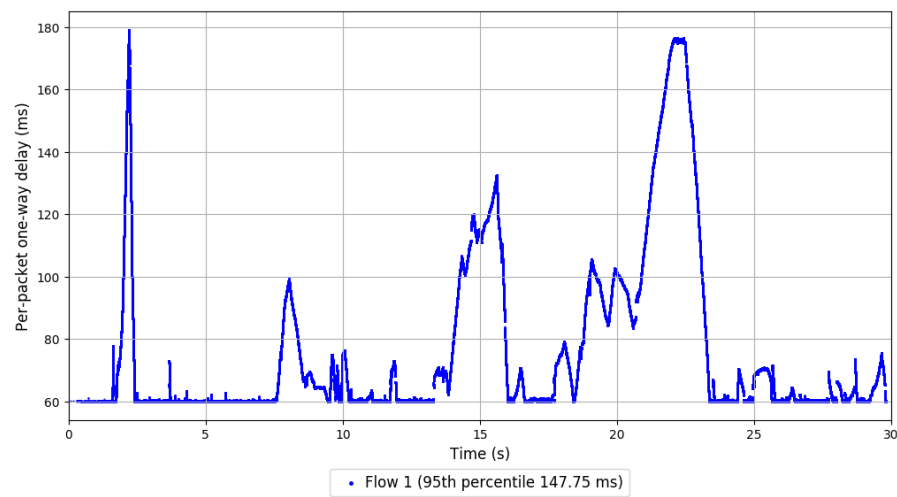
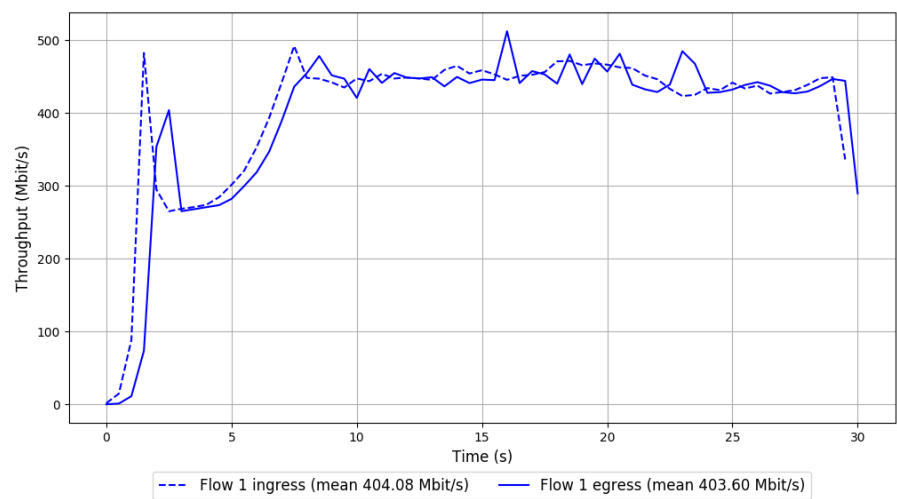


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-19 14:49:28
End at: 2019-03-19 14:49:58
Local clock offset: -0.376 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-03-19 19:13:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 403.60 Mbit/s
95th percentile per-packet one-way delay: 147.754 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 403.60 Mbit/s
95th percentile per-packet one-way delay: 147.754 ms
Loss rate: 0.53%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-19 15:24:21

End at: 2019-03-19 15:24:52

Local clock offset: -0.06 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2019-03-19 19:14:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.42 Mbit/s

95th percentile per-packet one-way delay: 84.248 ms

Loss rate: 0.54%

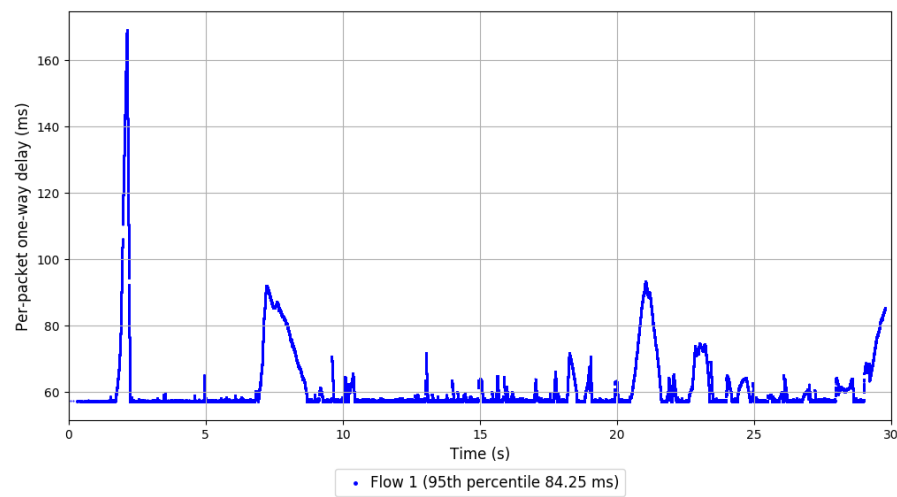
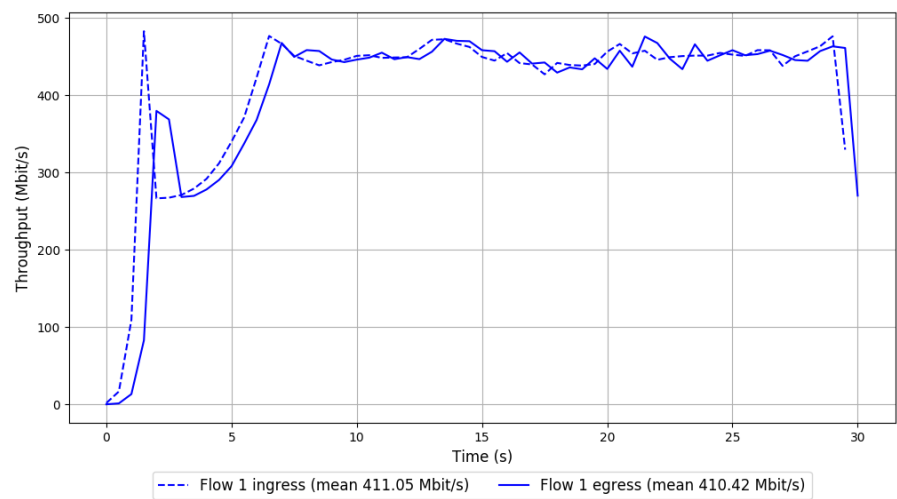
-- Flow 1:

Average throughput: 410.42 Mbit/s

95th percentile per-packet one-way delay: 84.248 ms

Loss rate: 0.54%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-19 15:58:23

End at: 2019-03-19 15:58:53

Local clock offset: 0.13 ms

Remote clock offset: -0.017 ms

Below is generated by plot.py at 2019-03-19 19:15:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.40 Mbit/s

95th percentile per-packet one-way delay: 175.637 ms

Loss rate: 3.52%

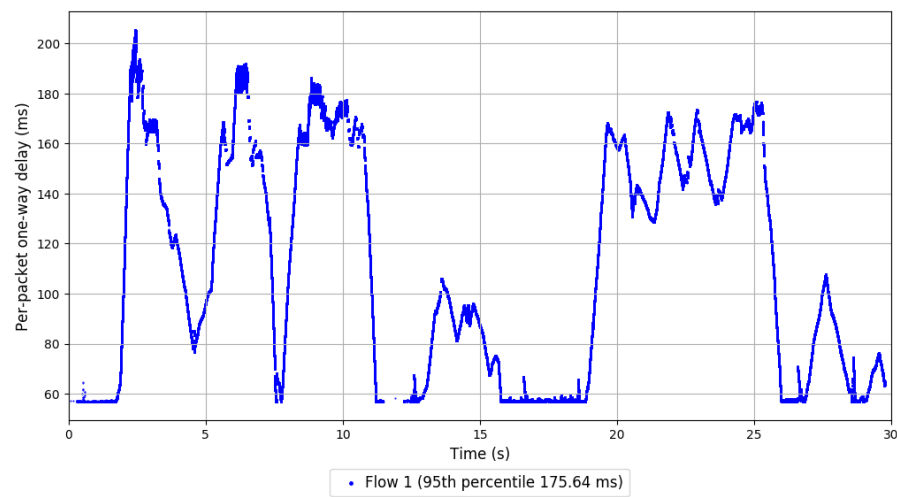
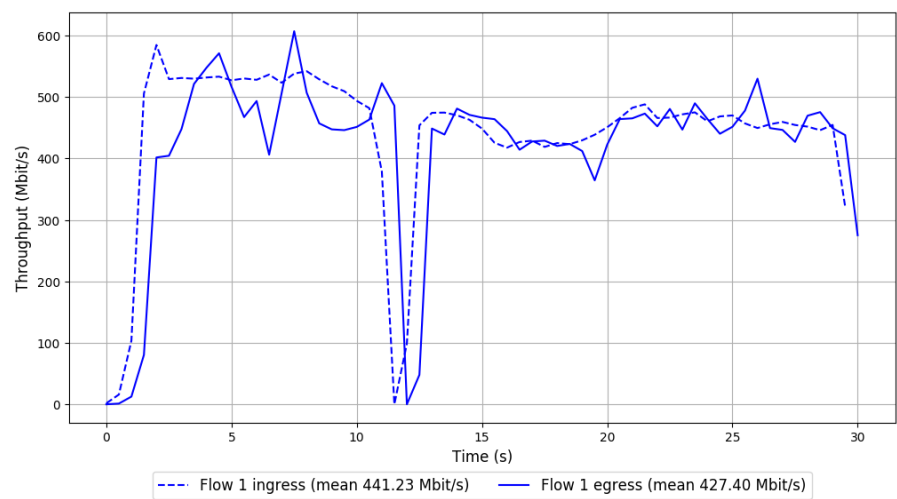
-- Flow 1:

Average throughput: 427.40 Mbit/s

95th percentile per-packet one-way delay: 175.637 ms

Loss rate: 3.52%

Run 3: Report of PCC-Allegro — Data Link

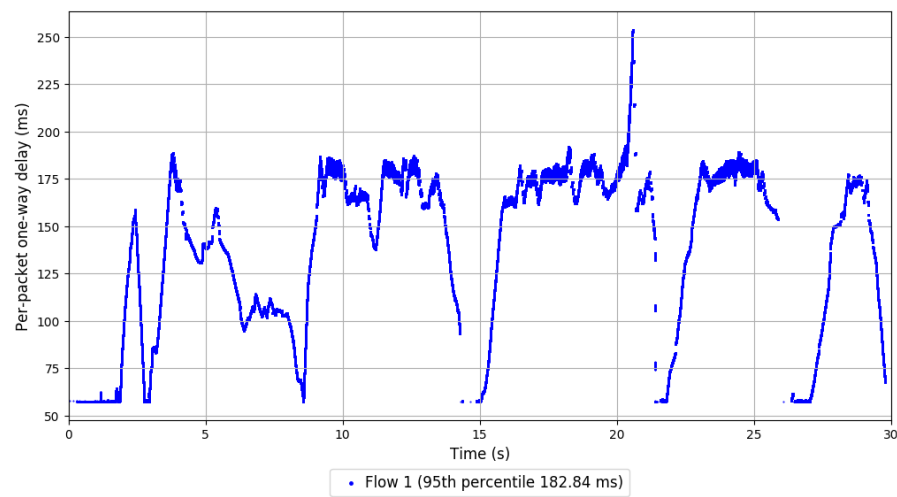
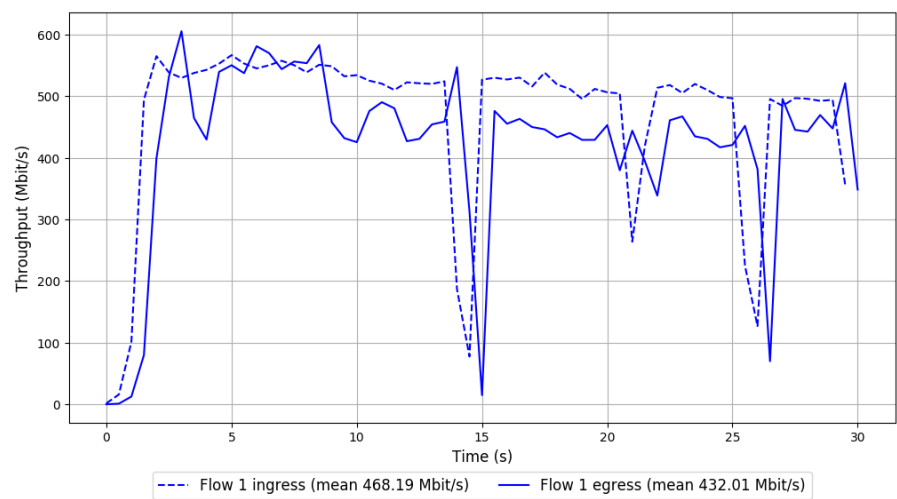


Run 4: Statistics of PCC-Allegro

Start at: 2019-03-19 16:33:01
End at: 2019-03-19 16:33:31
Local clock offset: 0.19 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2019-03-19 19:17:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 432.01 Mbit/s
95th percentile per-packet one-way delay: 182.844 ms
Loss rate: 8.08%
-- Flow 1:
Average throughput: 432.01 Mbit/s
95th percentile per-packet one-way delay: 182.844 ms
Loss rate: 8.08%

Run 4: Report of PCC-Allegro — Data Link

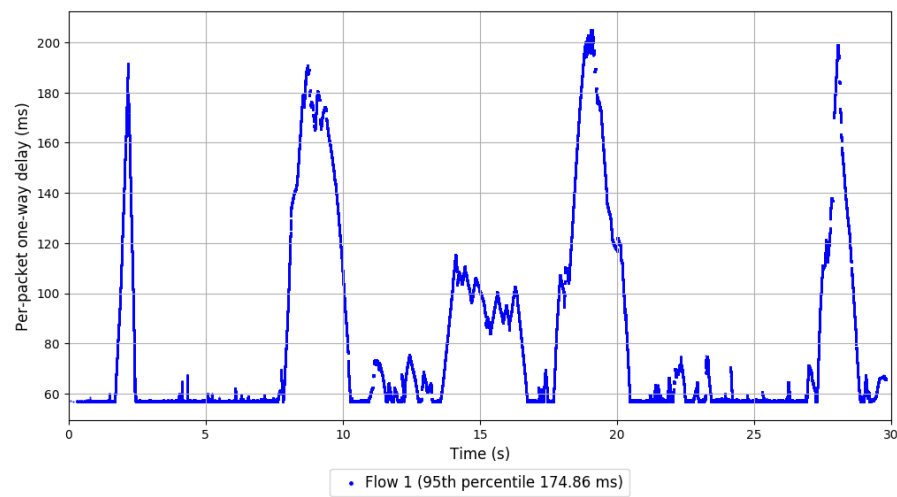
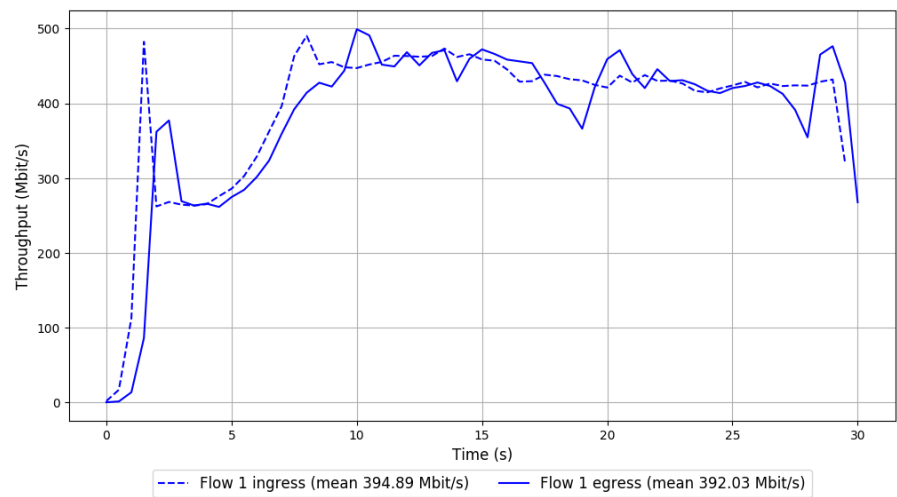


Run 5: Statistics of PCC-Allegro

Start at: 2019-03-19 17:08:31
End at: 2019-03-19 17:09:01
Local clock offset: -0.429 ms
Remote clock offset: -0.204 ms

Below is generated by plot.py at 2019-03-19 19:20:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 392.03 Mbit/s
95th percentile per-packet one-way delay: 174.856 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 392.03 Mbit/s
95th percentile per-packet one-way delay: 174.856 ms
Loss rate: 1.12%

Run 5: Report of PCC-Allegro — Data Link

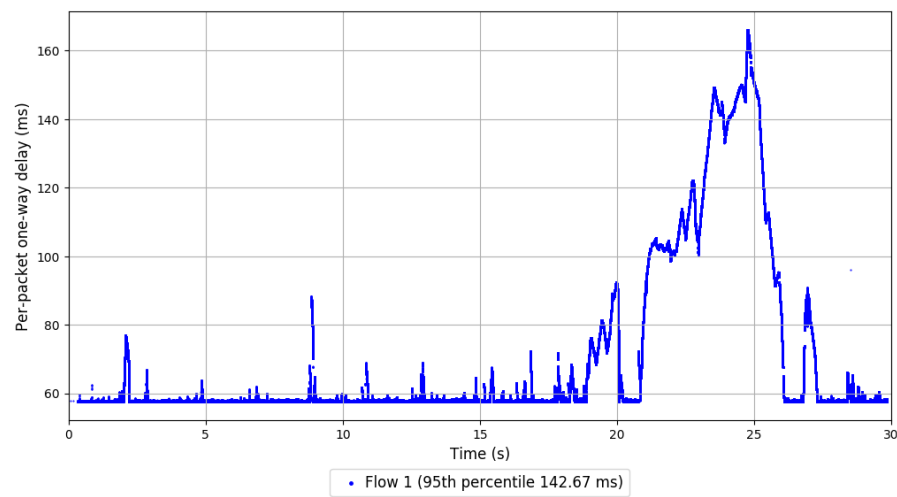
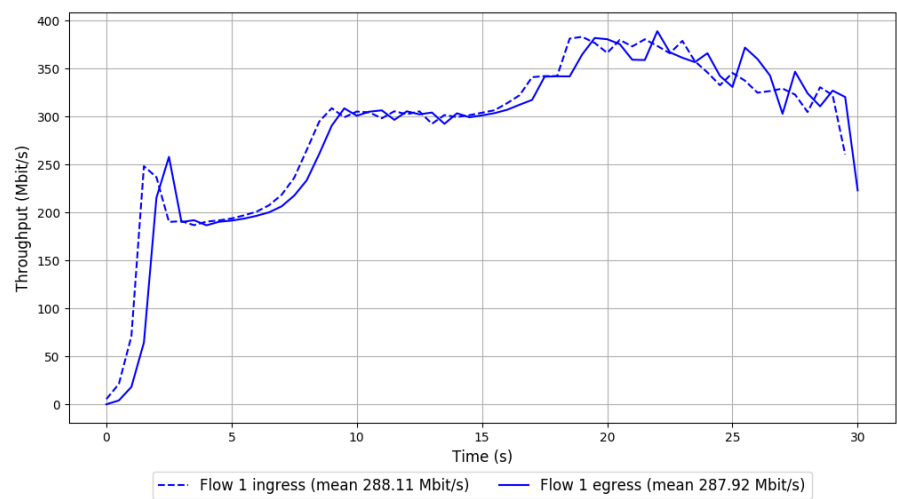


Run 1: Statistics of PCC-Expr

Start at: 2019-03-19 15:19:48
End at: 2019-03-19 15:20:18
Local clock offset: 0.285 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-03-19 19:20:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 287.92 Mbit/s
95th percentile per-packet one-way delay: 142.670 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 287.92 Mbit/s
95th percentile per-packet one-way delay: 142.670 ms
Loss rate: 0.45%

Run 1: Report of PCC-Expr — Data Link

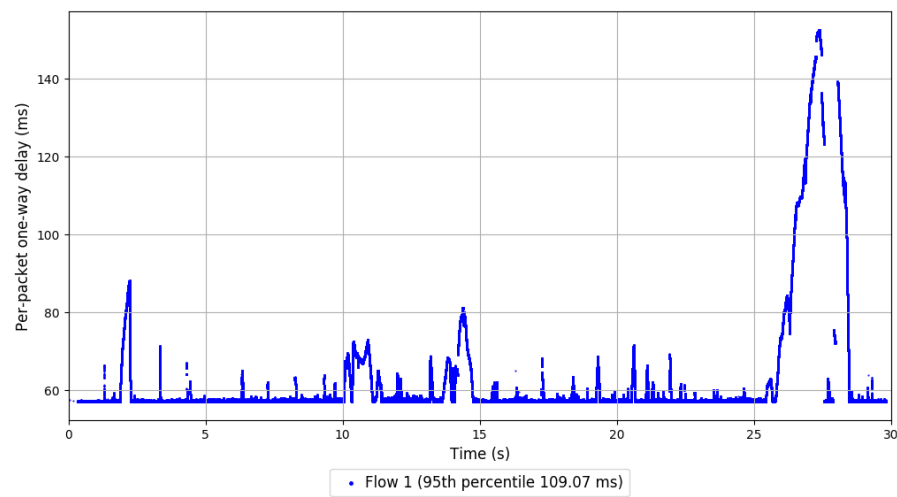
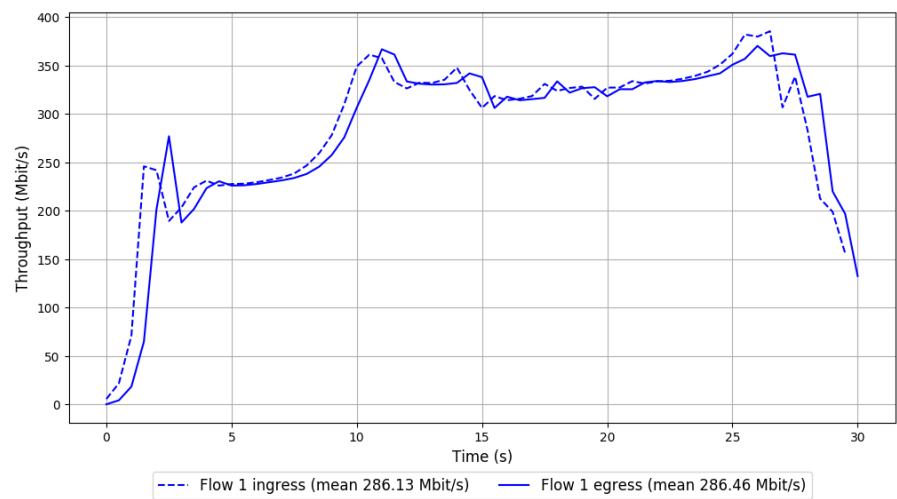


Run 2: Statistics of PCC-Expr

Start at: 2019-03-19 15:53:59
End at: 2019-03-19 15:54:29
Local clock offset: -0.124 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-03-19 19:20:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 286.46 Mbit/s
95th percentile per-packet one-way delay: 109.071 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 286.46 Mbit/s
95th percentile per-packet one-way delay: 109.071 ms
Loss rate: 0.28%

Run 2: Report of PCC-Expr — Data Link

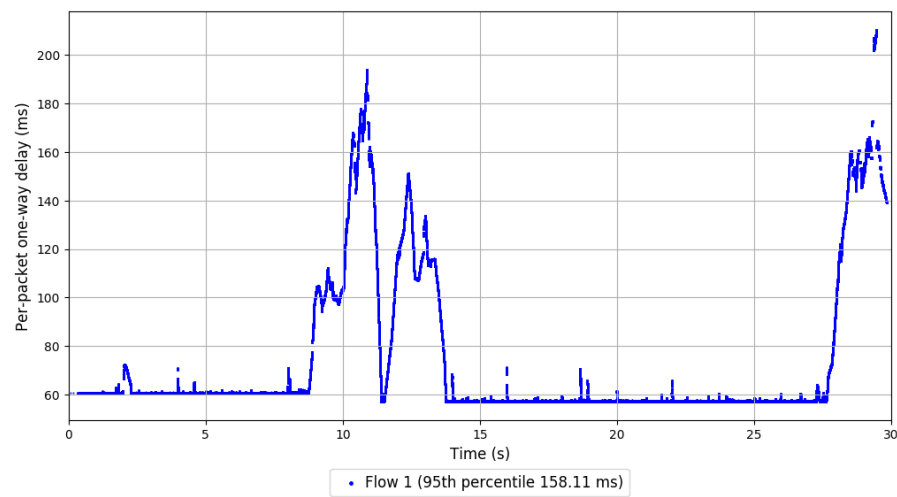
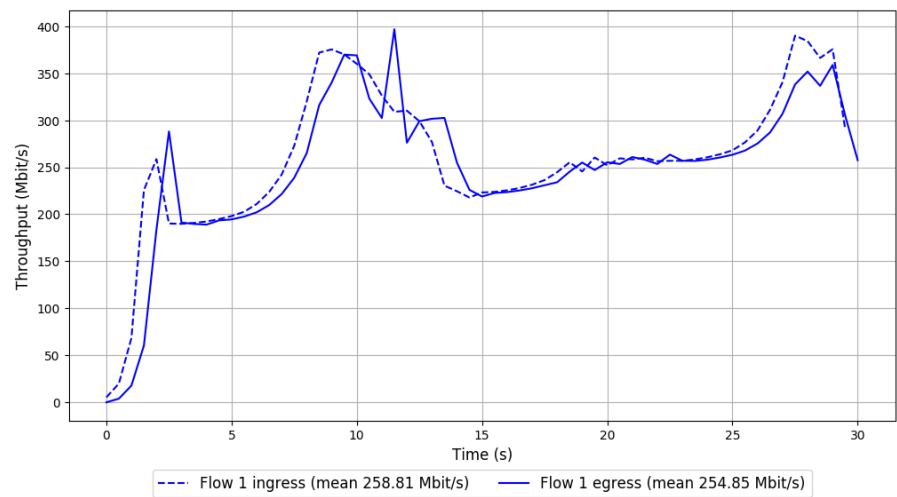


Run 3: Statistics of PCC-Expr

Start at: 2019-03-19 16:28:05
End at: 2019-03-19 16:28:35
Local clock offset: 0.008 ms
Remote clock offset: -0.223 ms

Below is generated by plot.py at 2019-03-19 19:20:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 254.85 Mbit/s
95th percentile per-packet one-way delay: 158.109 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 254.85 Mbit/s
95th percentile per-packet one-way delay: 158.109 ms
Loss rate: 1.91%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-19 17:03:50

End at: 2019-03-19 17:04:20

Local clock offset: 0.394 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2019-03-19 19:24:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.05 Mbit/s

95th percentile per-packet one-way delay: 158.871 ms

Loss rate: 1.85%

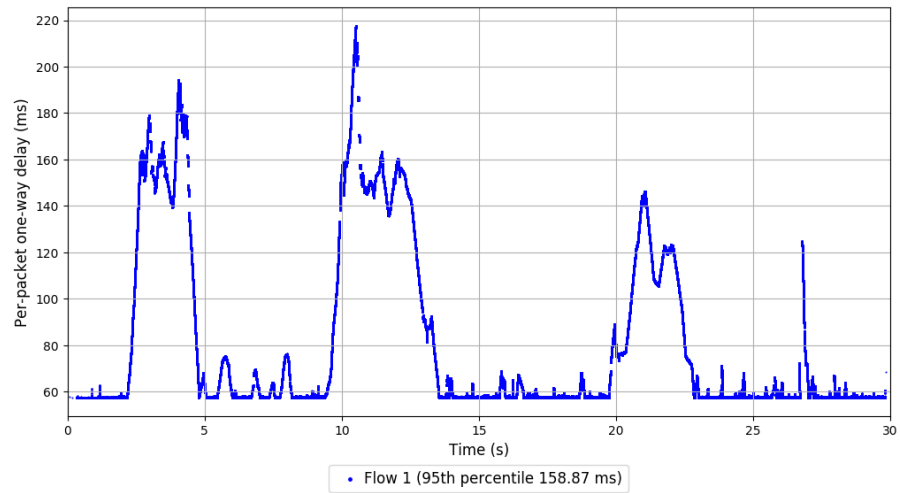
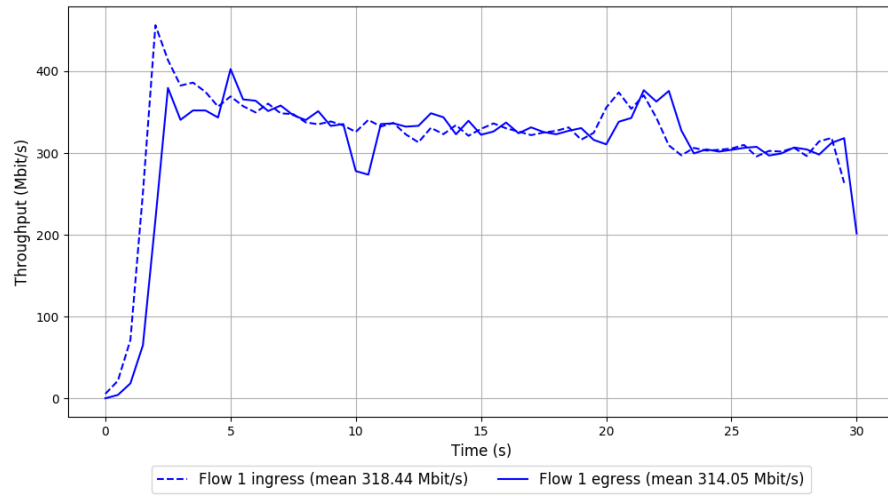
-- Flow 1:

Average throughput: 314.05 Mbit/s

95th percentile per-packet one-way delay: 158.871 ms

Loss rate: 1.85%

Run 4: Report of PCC-Expr — Data Link

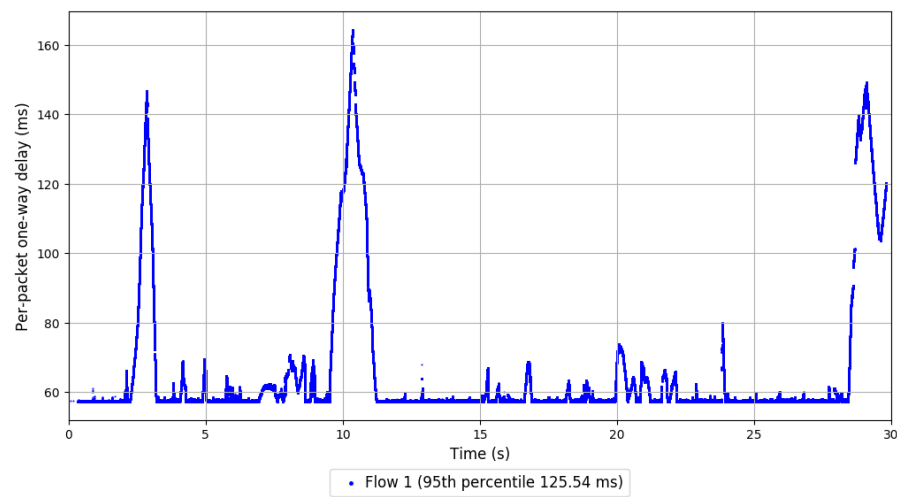
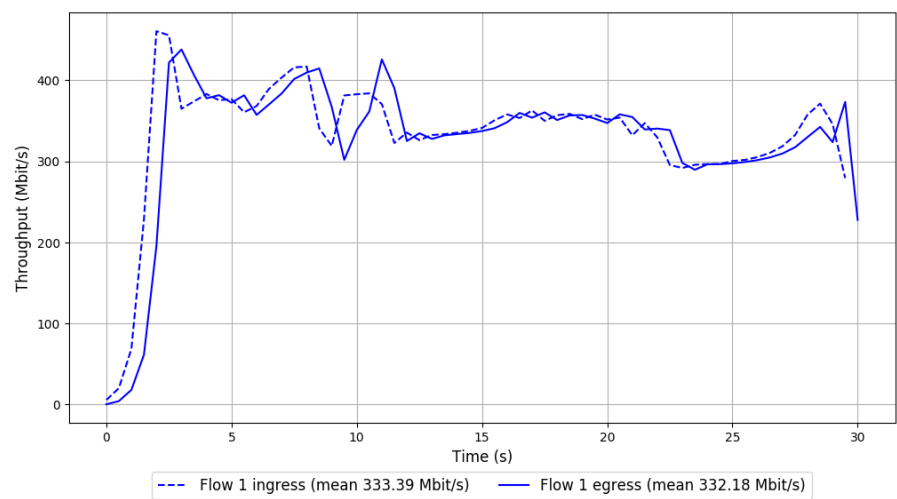


Run 5: Statistics of PCC-Expr

Start at: 2019-03-19 17:38:38
End at: 2019-03-19 17:39:08
Local clock offset: 0.296 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2019-03-19 19:25:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 332.18 Mbit/s
95th percentile per-packet one-way delay: 125.538 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 332.18 Mbit/s
95th percentile per-packet one-way delay: 125.538 ms
Loss rate: 0.76%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 15:05:01

End at: 2019-03-19 15:05:31

Local clock offset: -0.153 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2019-03-19 19:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 57.053 ms

Loss rate: 0.63%

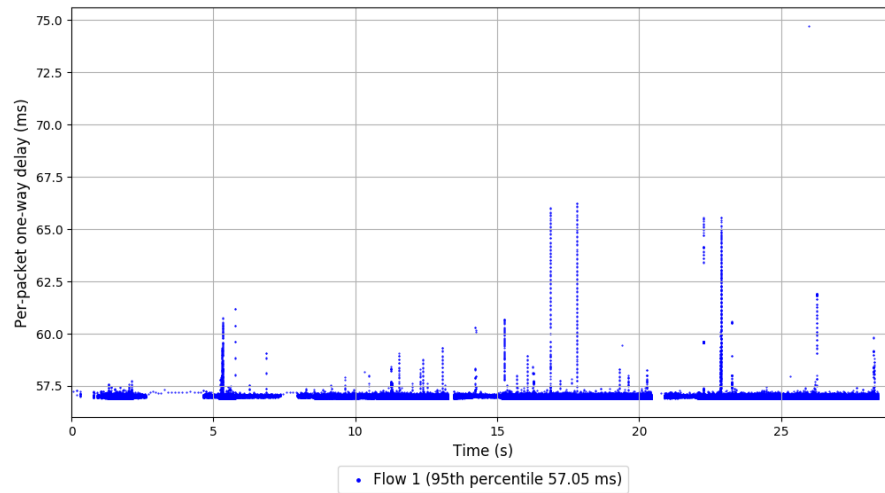
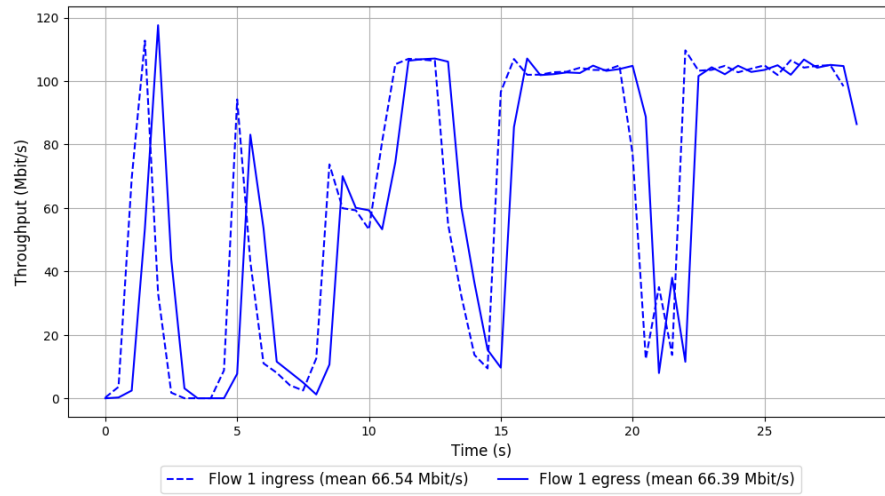
-- Flow 1:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 57.053 ms

Loss rate: 0.63%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-03-19 15:39:25

End at: 2019-03-19 15:39:55

Local clock offset: 0.067 ms

Remote clock offset: 0.495 ms

Below is generated by plot.py at 2019-03-19 19:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 56.777 ms

Loss rate: 0.60%

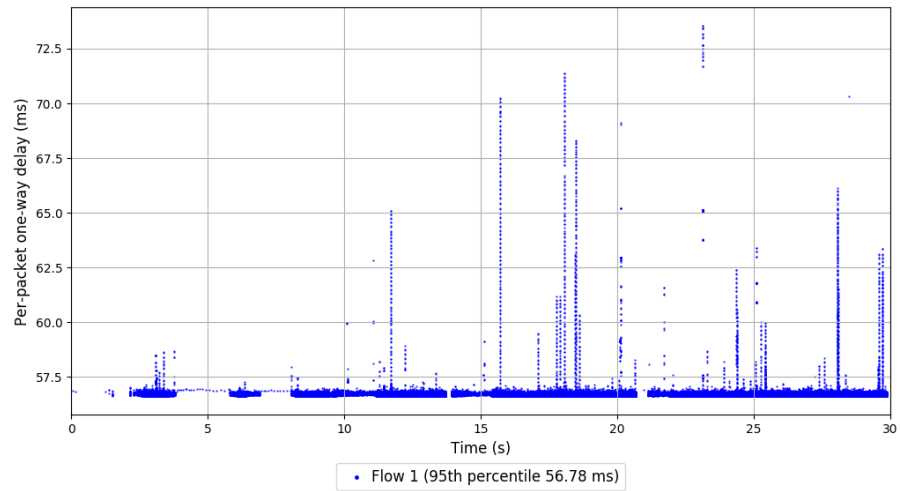
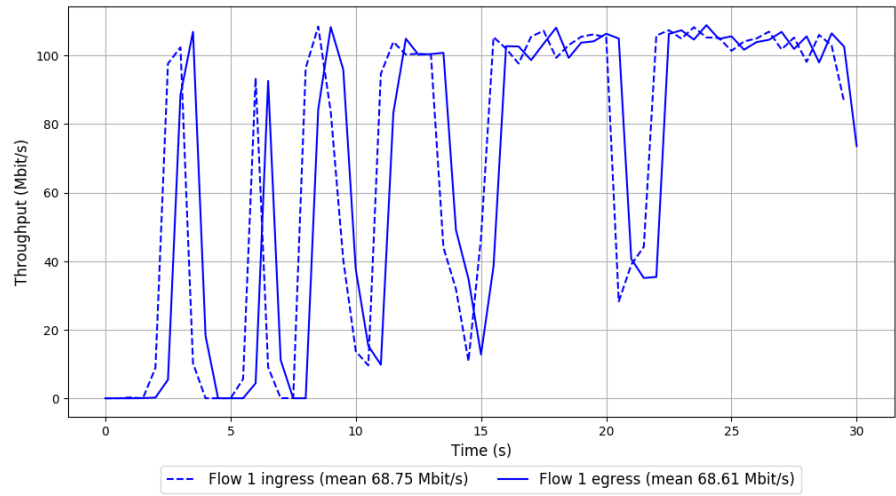
-- Flow 1:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 56.777 ms

Loss rate: 0.60%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-19 16:13:47

End at: 2019-03-19 16:14:17

Local clock offset: 0.38 ms

Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-03-19 19:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 57.494 ms

Loss rate: 0.72%

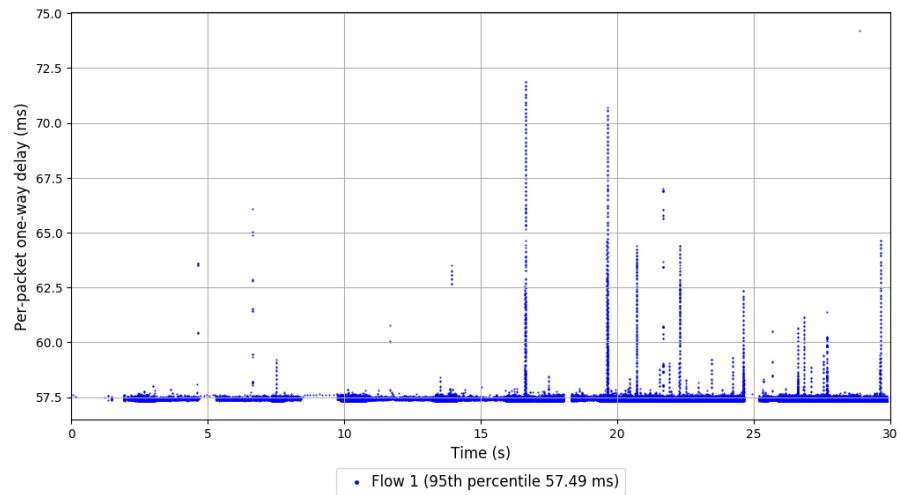
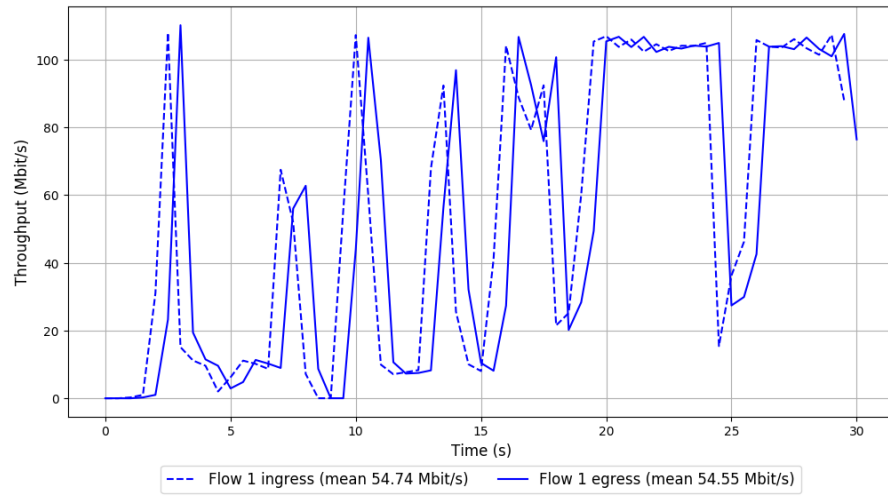
-- Flow 1:

Average throughput: 54.55 Mbit/s

95th percentile per-packet one-way delay: 57.494 ms

Loss rate: 0.72%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-19 16:49:04

End at: 2019-03-19 16:49:34

Local clock offset: -0.001 ms

Remote clock offset: -0.067 ms

Below is generated by plot.py at 2019-03-19 19:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 56.958 ms

Loss rate: 0.71%

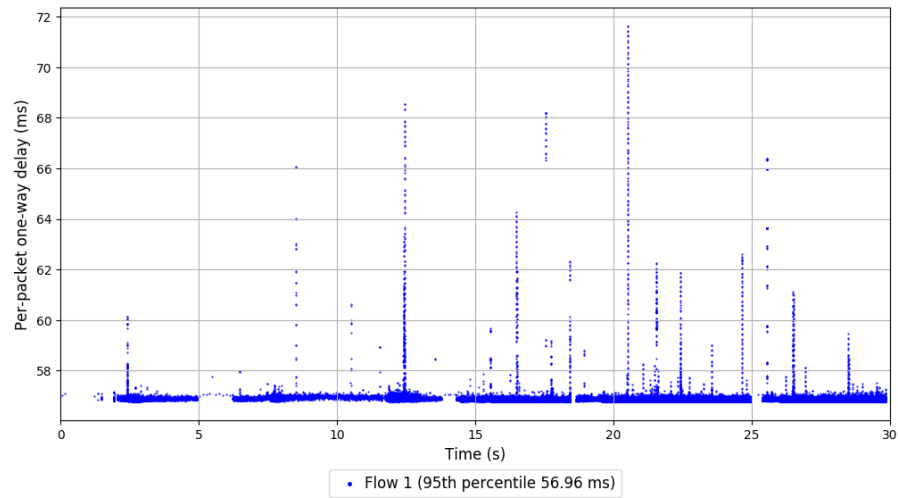
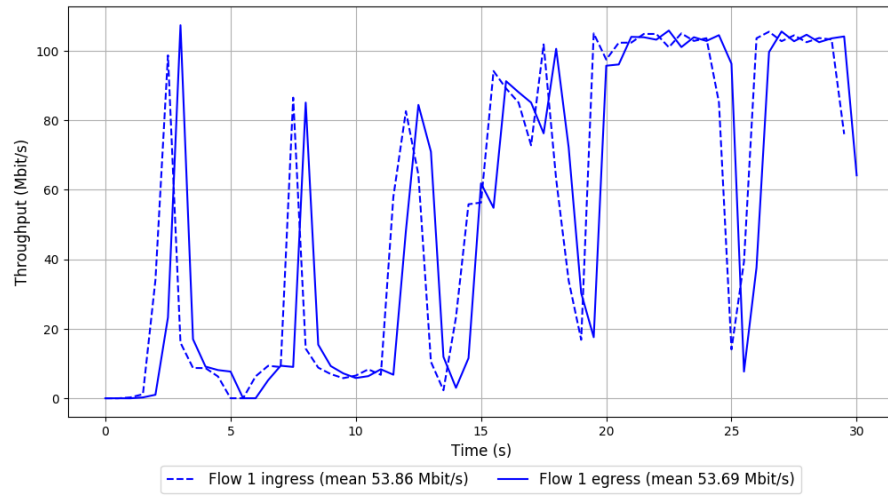
-- Flow 1:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 56.958 ms

Loss rate: 0.71%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-19 17:24:20

End at: 2019-03-19 17:24:50

Local clock offset: 0.368 ms

Remote clock offset: -0.032 ms

Below is generated by plot.py at 2019-03-19 19:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 60.719 ms

Loss rate: 0.70%

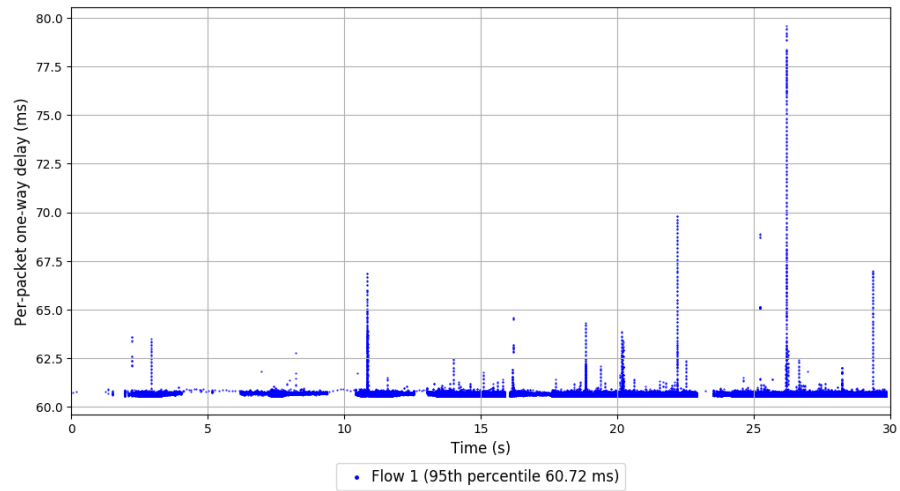
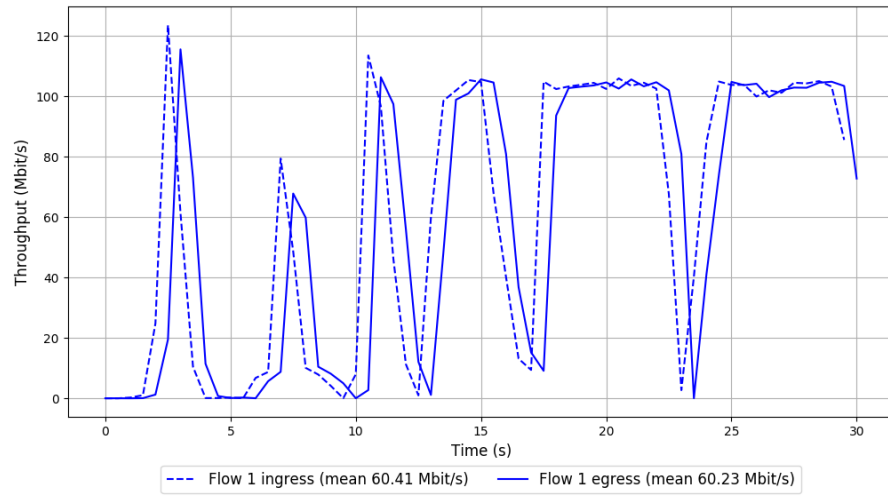
-- Flow 1:

Average throughput: 60.23 Mbit/s

95th percentile per-packet one-way delay: 60.719 ms

Loss rate: 0.70%

Run 5: Report of QUIC Cubic — Data Link

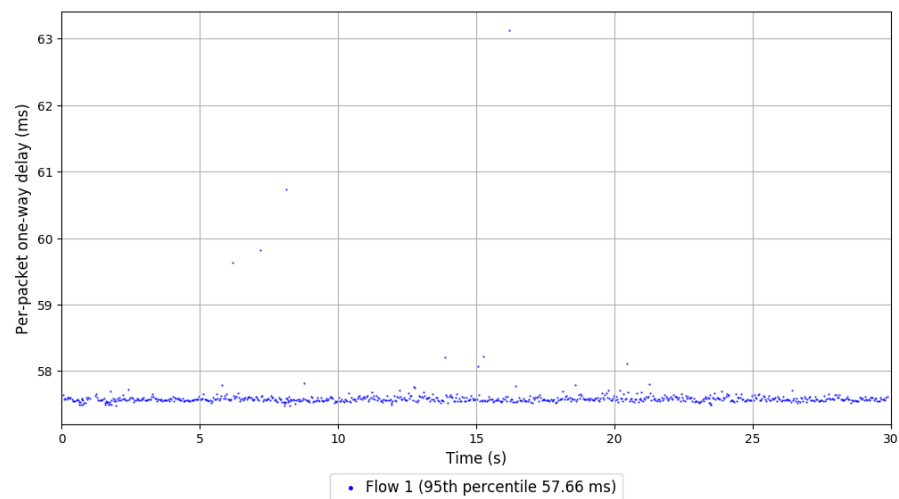
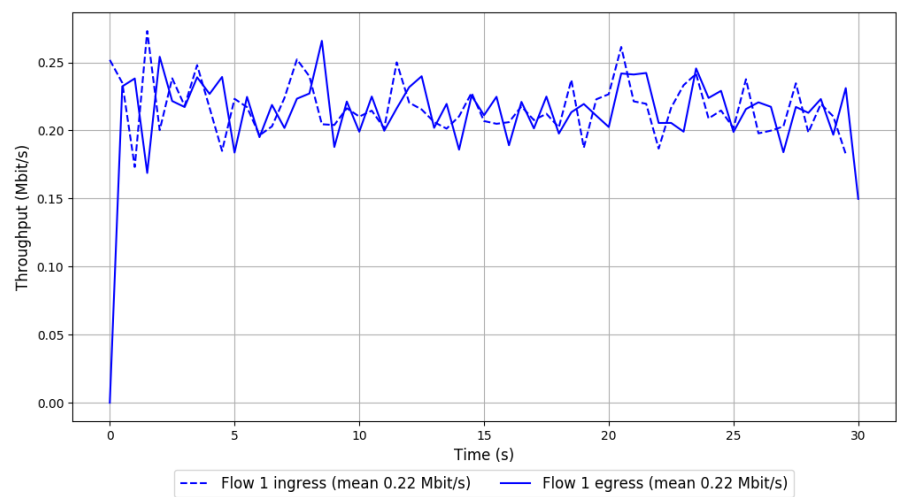


Run 1: Statistics of SCReAM

Start at: 2019-03-19 15:13:48
End at: 2019-03-19 15:14:18
Local clock offset: 0.105 ms
Remote clock offset: -0.227 ms

Below is generated by plot.py at 2019-03-19 19:25:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.661 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.661 ms
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link

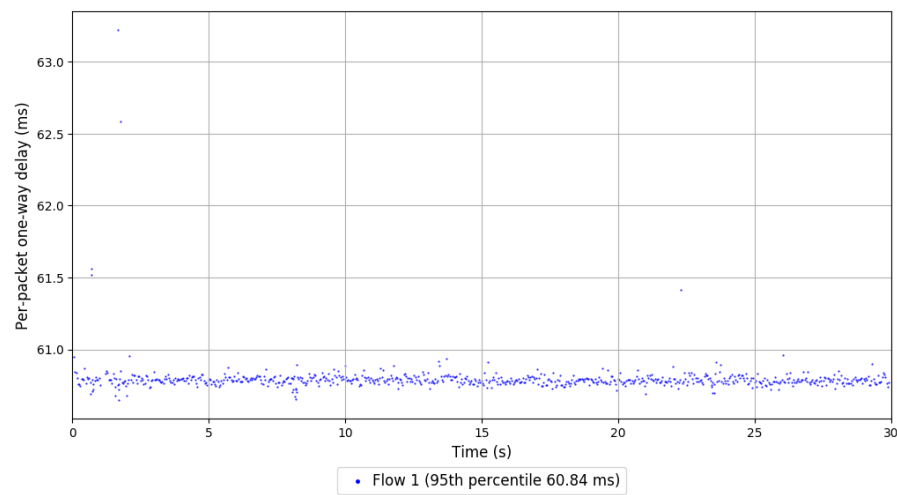
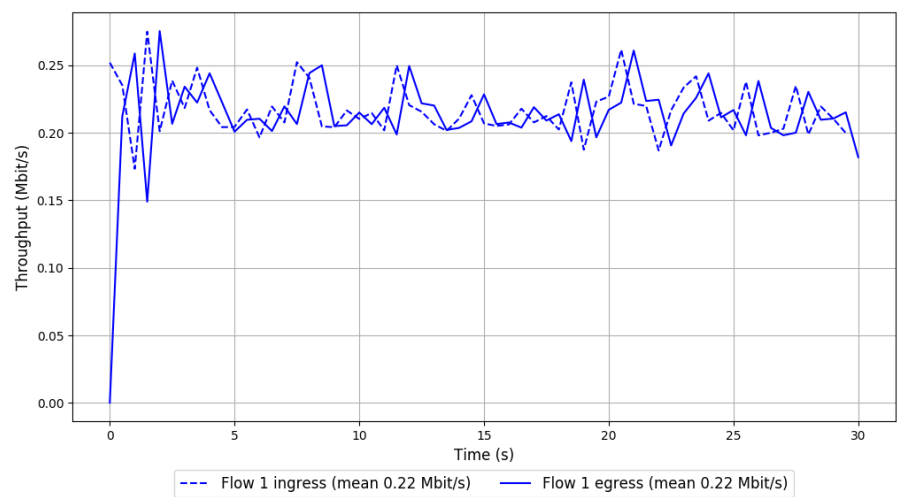


Run 2: Statistics of SCReAM

Start at: 2019-03-19 15:48:15
End at: 2019-03-19 15:48:45
Local clock offset: -0.107 ms
Remote clock offset: -0.533 ms

Below is generated by plot.py at 2019-03-19 19:25:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.843 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.843 ms
Loss rate: 0.39%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-03-19 16:22:12

End at: 2019-03-19 16:22:42

Local clock offset: -0.034 ms

Remote clock offset: 0.064 ms

Below is generated by plot.py at 2019-03-19 19:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.396 ms

Loss rate: 0.38%

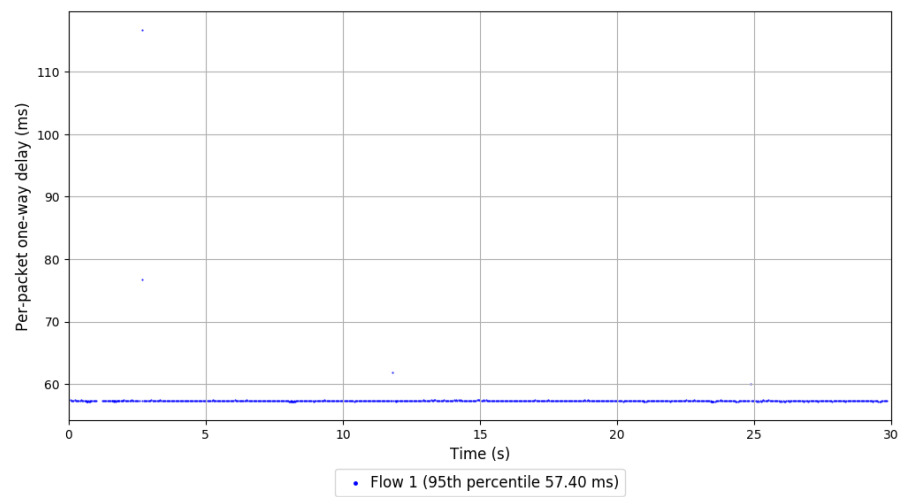
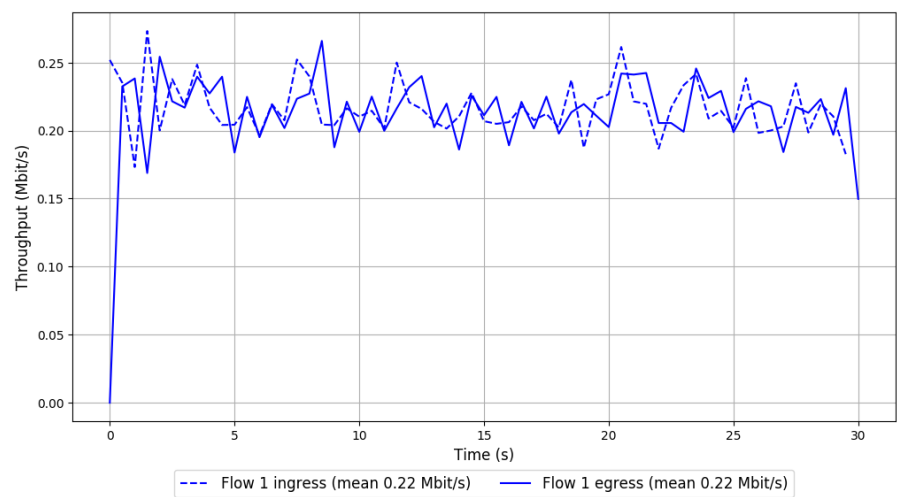
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.396 ms

Loss rate: 0.38%

Run 3: Report of SCReAM — Data Link

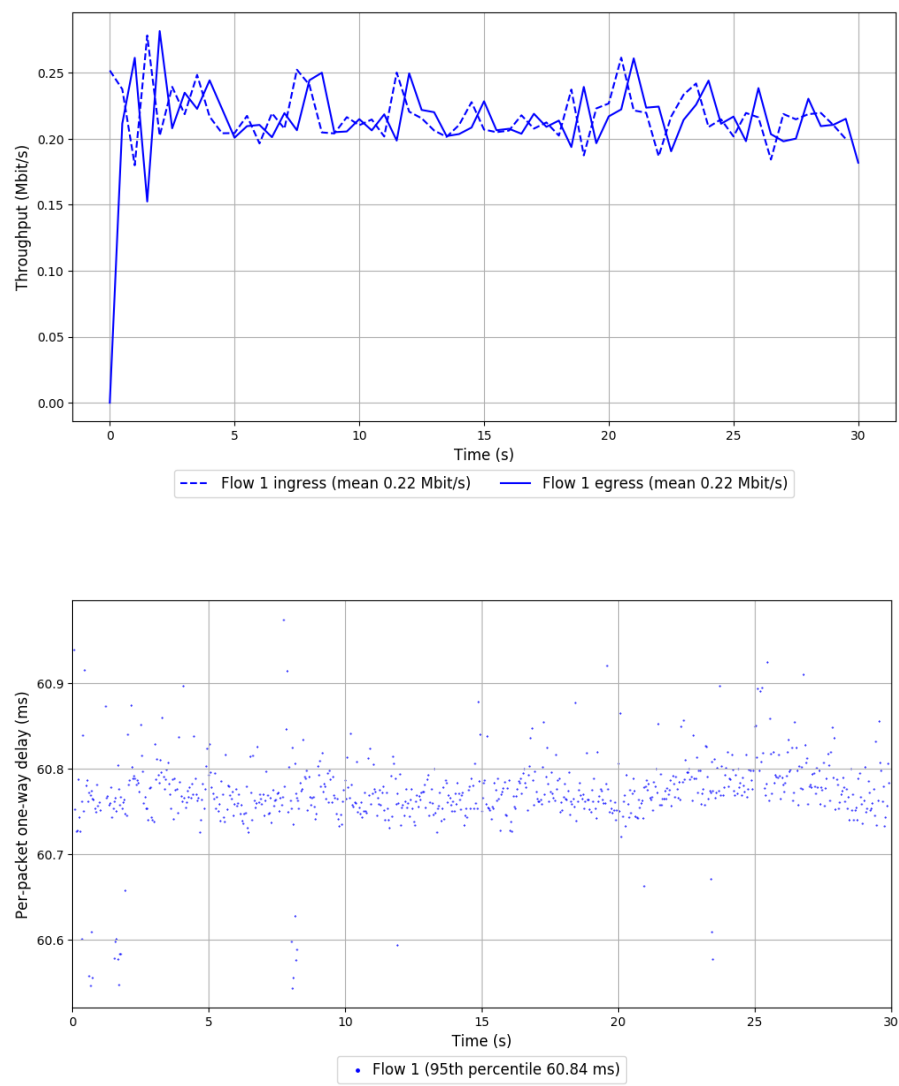


Run 4: Statistics of SCReAM

Start at: 2019-03-19 16:57:56
End at: 2019-03-19 16:58:26
Local clock offset: 0.451 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2019-03-19 19:25:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.837 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.837 ms
Loss rate: 0.39%

Run 4: Report of SReAM — Data Link

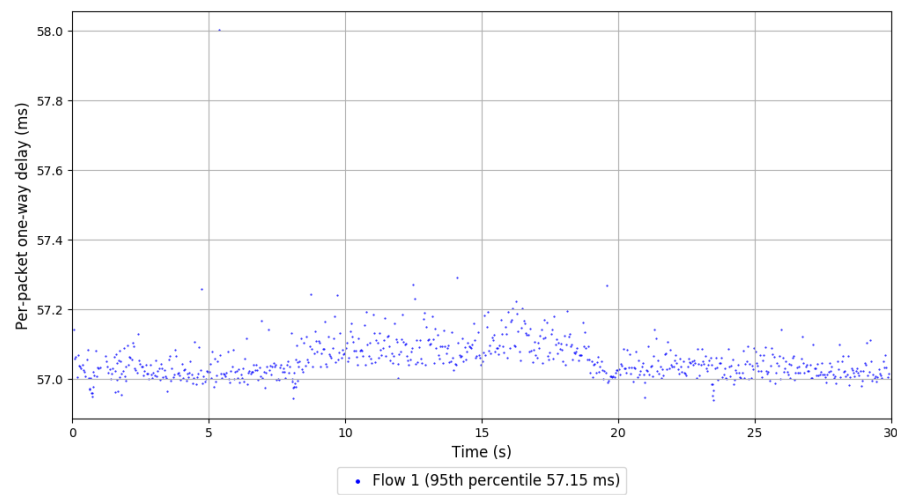
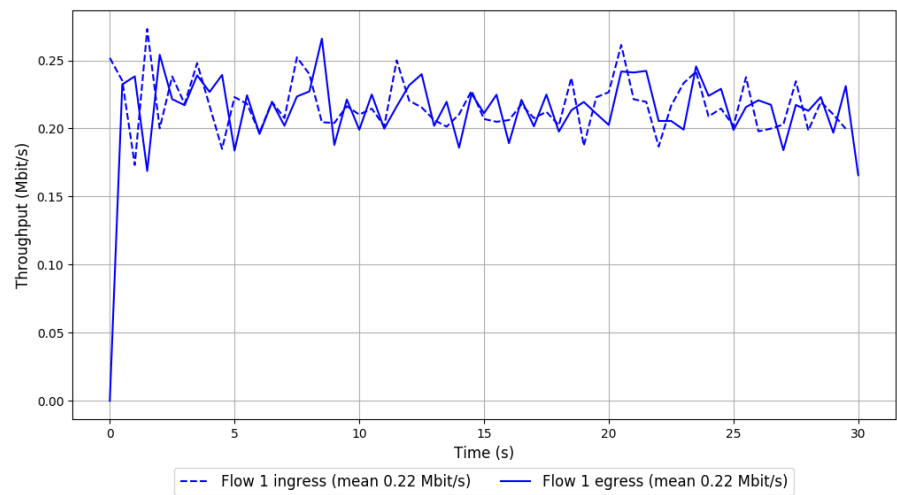


Run 5: Statistics of SCReAM

Start at: 2019-03-19 17:32:46
End at: 2019-03-19 17:33:16
Local clock offset: -0.395 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2019-03-19 19:25:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.154 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.154 ms
Loss rate: 0.39%

Run 5: Report of SReAM — Data Link

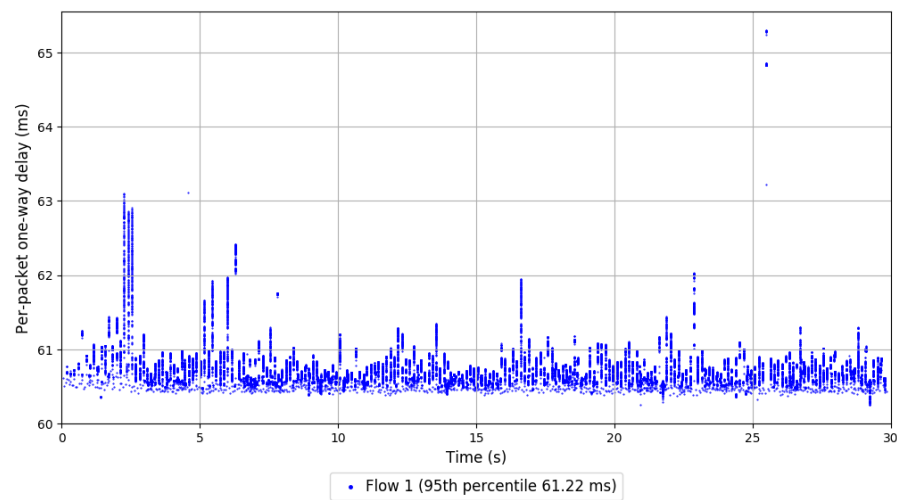
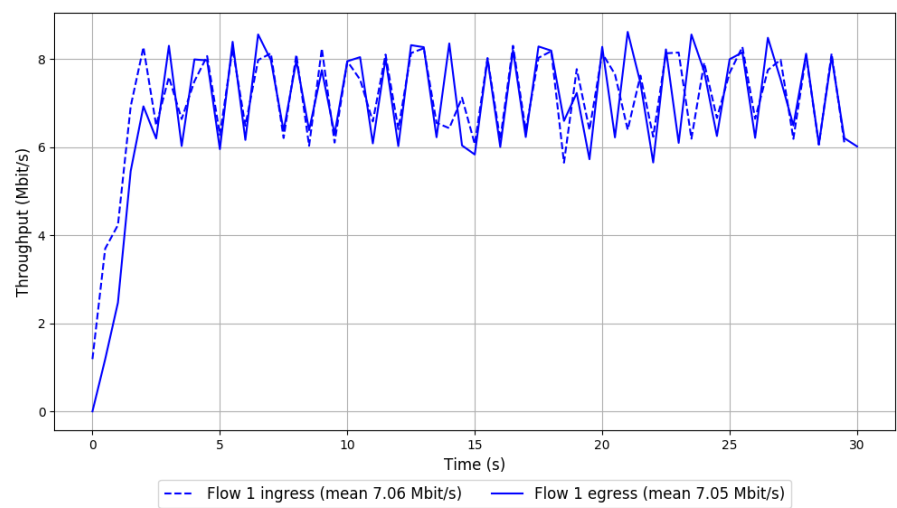


Run 1: Statistics of Sprout

Start at: 2019-03-19 14:51:03
End at: 2019-03-19 14:51:33
Local clock offset: -0.08 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2019-03-19 19:25:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 61.215 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 61.215 ms
Loss rate: 0.48%

Run 1: Report of Sprout — Data Link

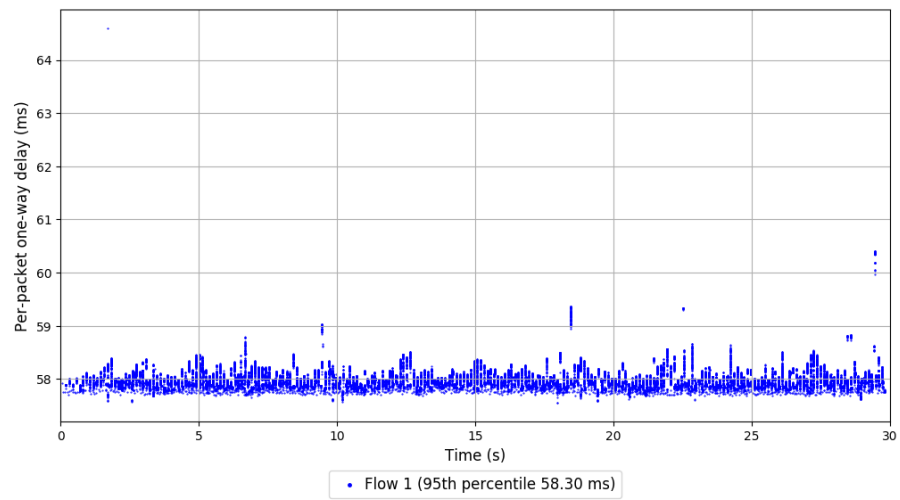
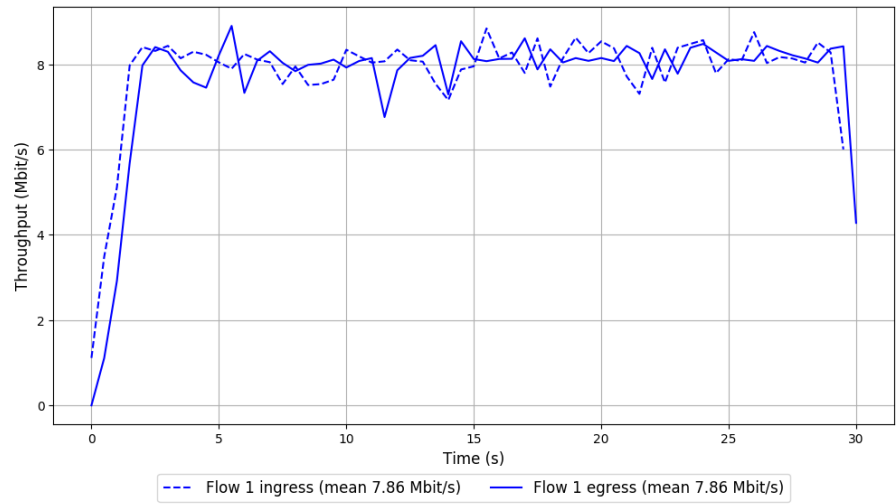


Run 2: Statistics of Sprout

Start at: 2019-03-19 15:26:07
End at: 2019-03-19 15:26:37
Local clock offset: 0.335 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2019-03-19 19:25:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 58.296 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 58.296 ms
Loss rate: 0.37%

Run 2: Report of Sprout — Data Link

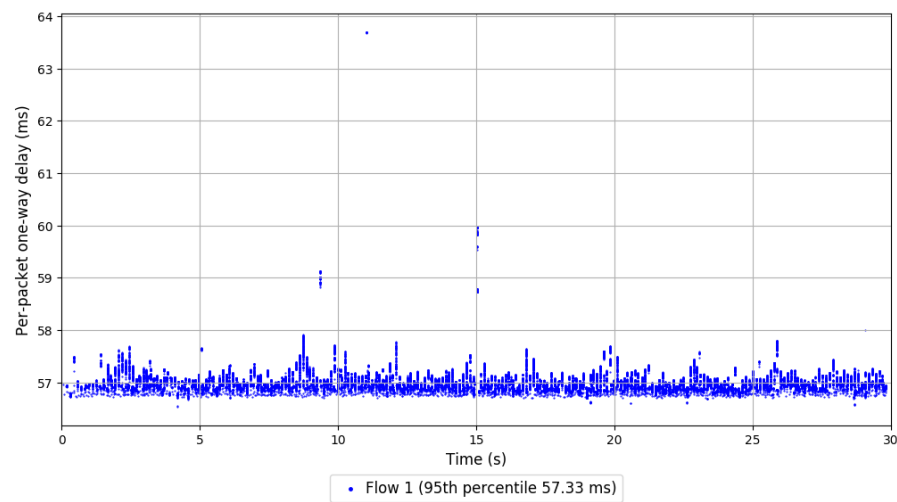
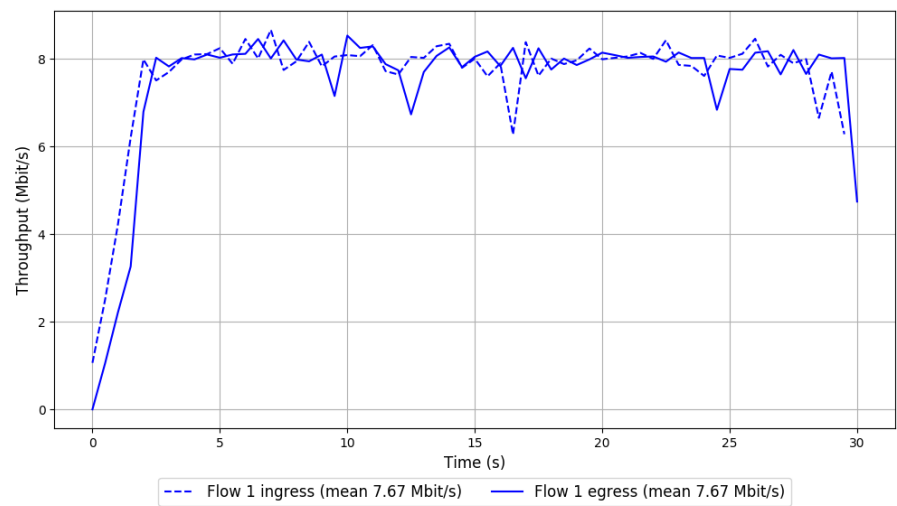


Run 3: Statistics of Sprout

Start at: 2019-03-19 16:00:09
End at: 2019-03-19 16:00:39
Local clock offset: -0.394 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2019-03-19 19:25:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 57.325 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 57.325 ms
Loss rate: 0.39%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-19 16:35:05

End at: 2019-03-19 16:35:35

Local clock offset: 0.176 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-03-19 19:25:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 57.752 ms

Loss rate: 0.06%

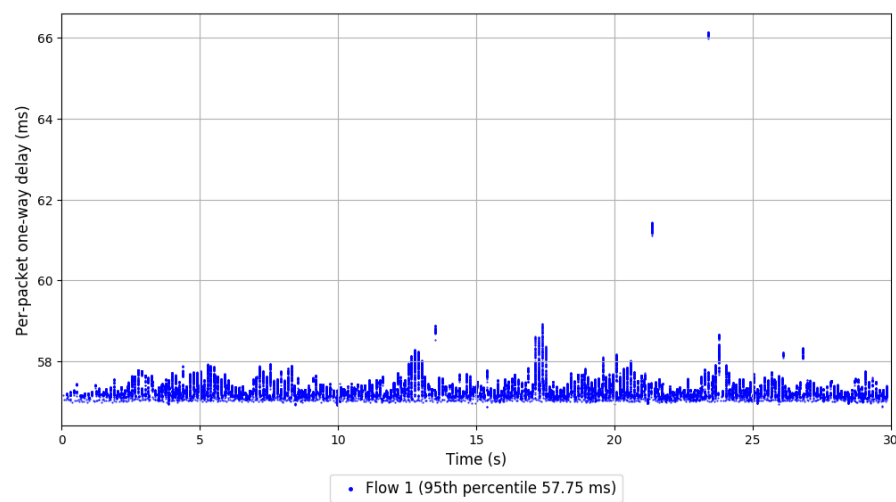
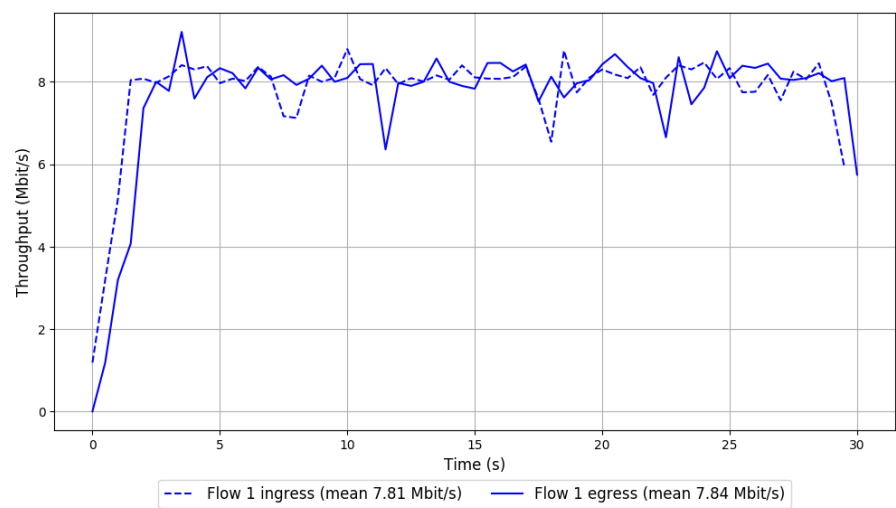
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 57.752 ms

Loss rate: 0.06%

Run 4: Report of Sprout — Data Link

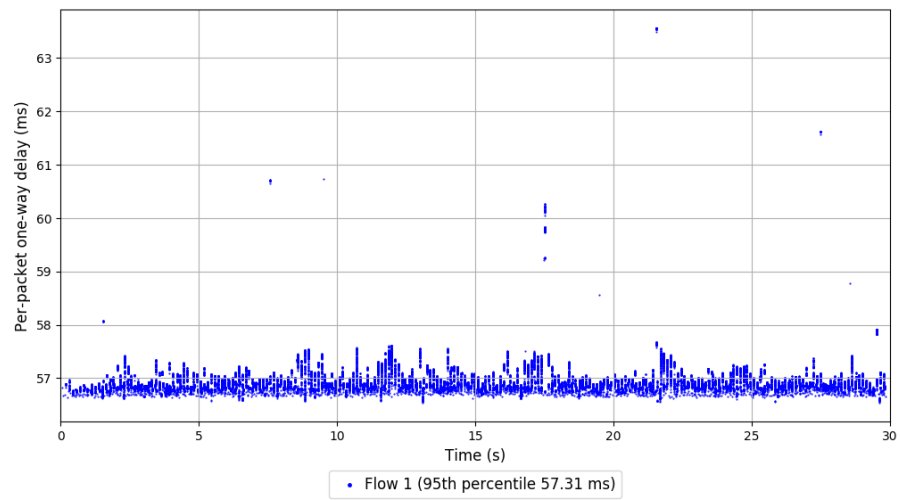
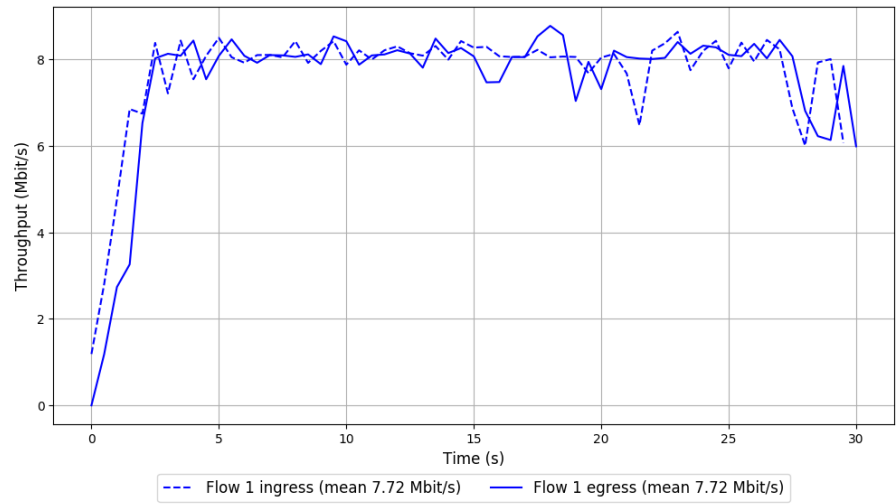


Run 5: Statistics of Sprout

Start at: 2019-03-19 17:10:30
End at: 2019-03-19 17:11:00
Local clock offset: -0.303 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2019-03-19 19:25:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 57.314 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 57.314 ms
Loss rate: 0.44%

Run 5: Report of Sprout — Data Link

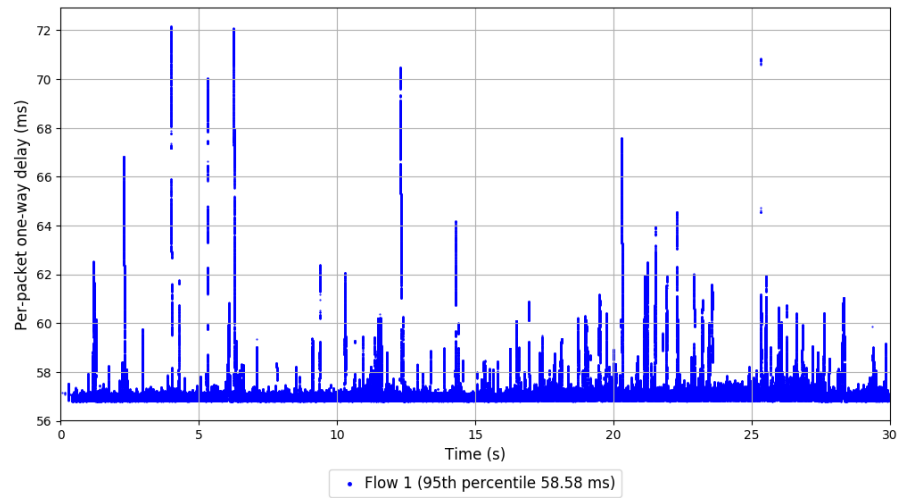
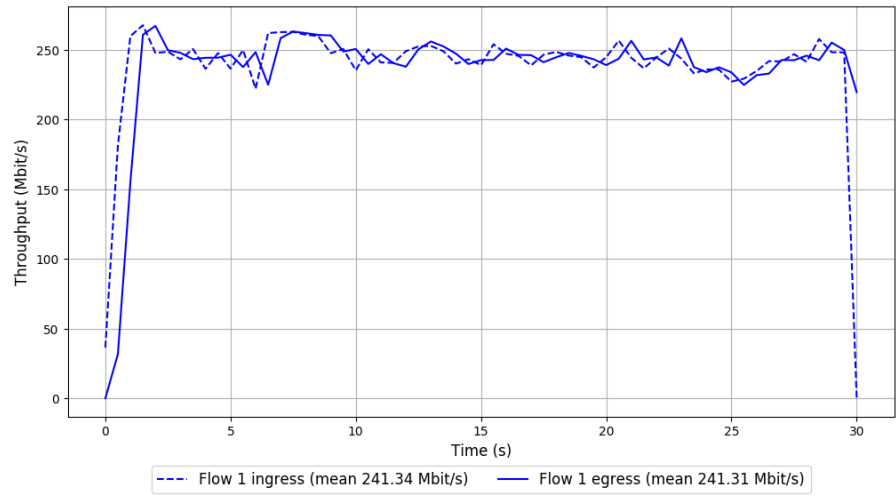


Run 1: Statistics of TaoVA-100x

Start at: 2019-03-19 15:12:10
End at: 2019-03-19 15:12:40
Local clock offset: -0.384 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2019-03-19 19:26:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 241.31 Mbit/s
95th percentile per-packet one-way delay: 58.576 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 241.31 Mbit/s
95th percentile per-packet one-way delay: 58.576 ms
Loss rate: 0.40%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-03-19 15:46:30

End at: 2019-03-19 15:47:00

Local clock offset: 0.152 ms

Remote clock offset: -0.783 ms

Below is generated by plot.py at 2019-03-19 19:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.96 Mbit/s

95th percentile per-packet one-way delay: 59.027 ms

Loss rate: 0.41%

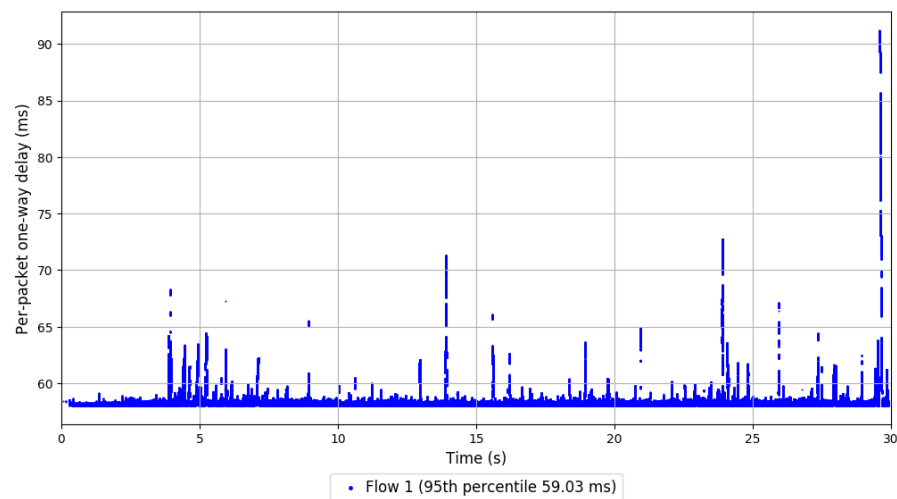
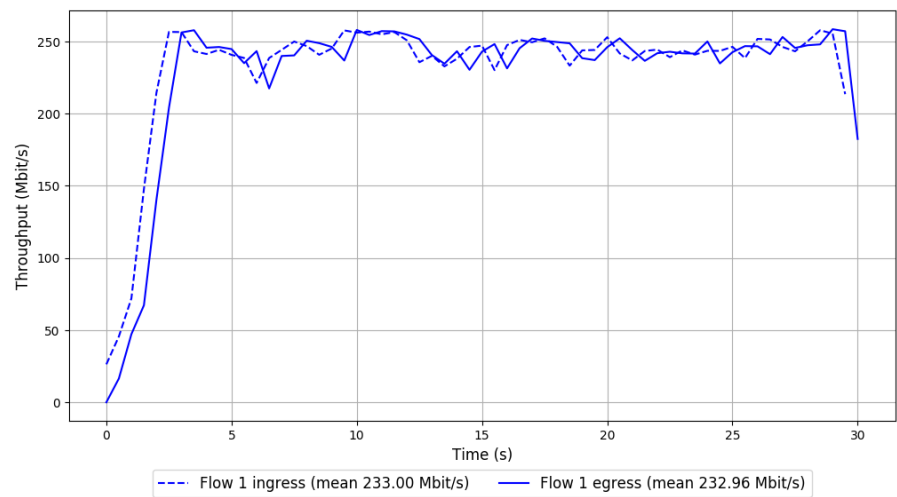
-- Flow 1:

Average throughput: 232.96 Mbit/s

95th percentile per-packet one-way delay: 59.027 ms

Loss rate: 0.41%

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

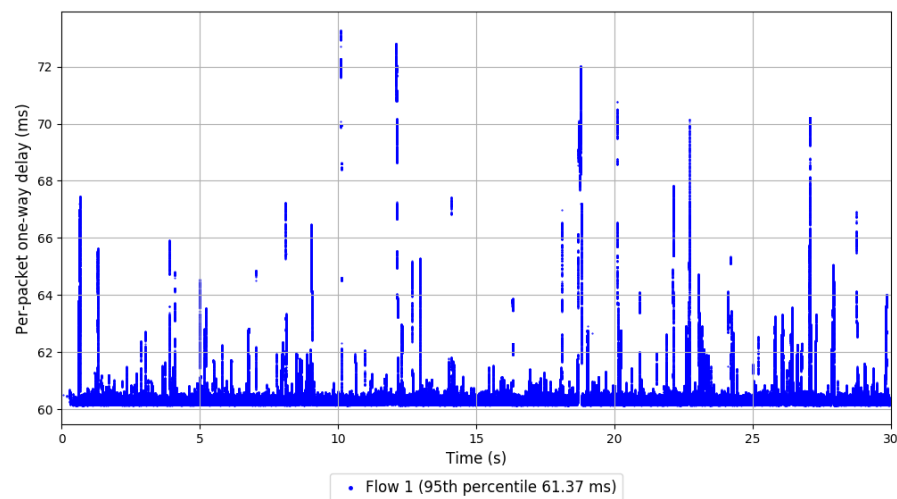
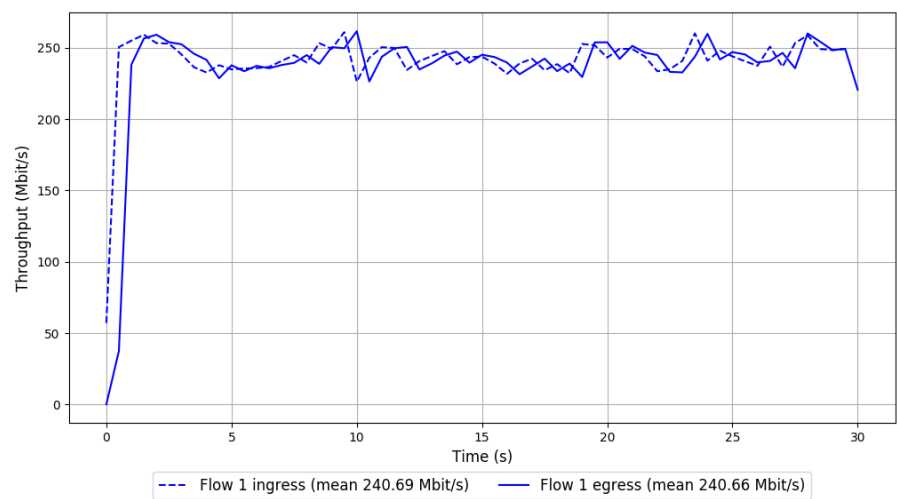


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-19 16:20:25
End at: 2019-03-19 16:20:55
Local clock offset: -0.045 ms
Remote clock offset: -0.247 ms

Below is generated by plot.py at 2019-03-19 19:26:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 240.66 Mbit/s
95th percentile per-packet one-way delay: 61.368 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 240.66 Mbit/s
95th percentile per-packet one-way delay: 61.368 ms
Loss rate: 0.40%

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

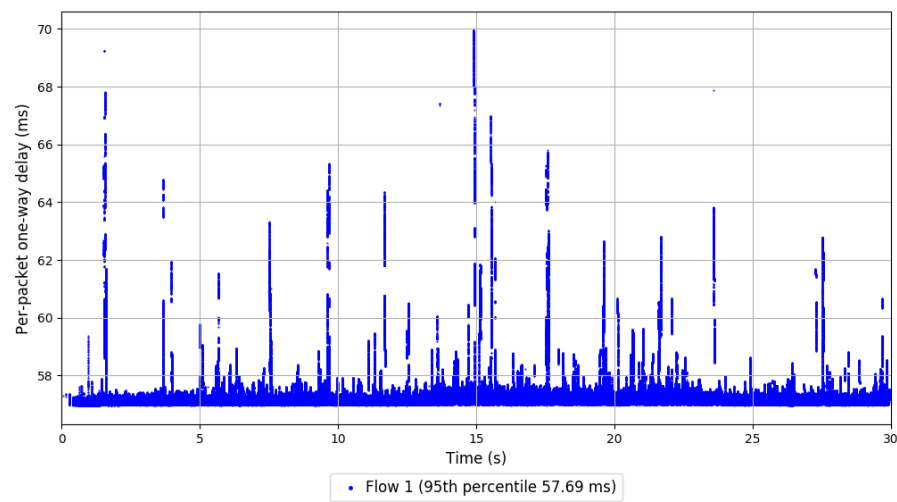
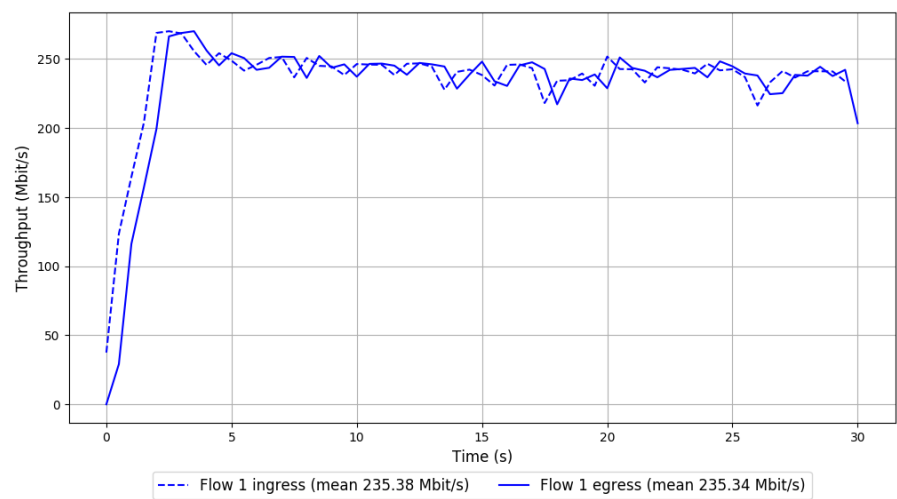


Run 4: Statistics of TaoVA-100x

Start at: 2019-03-19 16:56:16
End at: 2019-03-19 16:56:46
Local clock offset: -0.026 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2019-03-19 19:26:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 235.34 Mbit/s
95th percentile per-packet one-way delay: 57.694 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 235.34 Mbit/s
95th percentile per-packet one-way delay: 57.694 ms
Loss rate: 0.41%

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

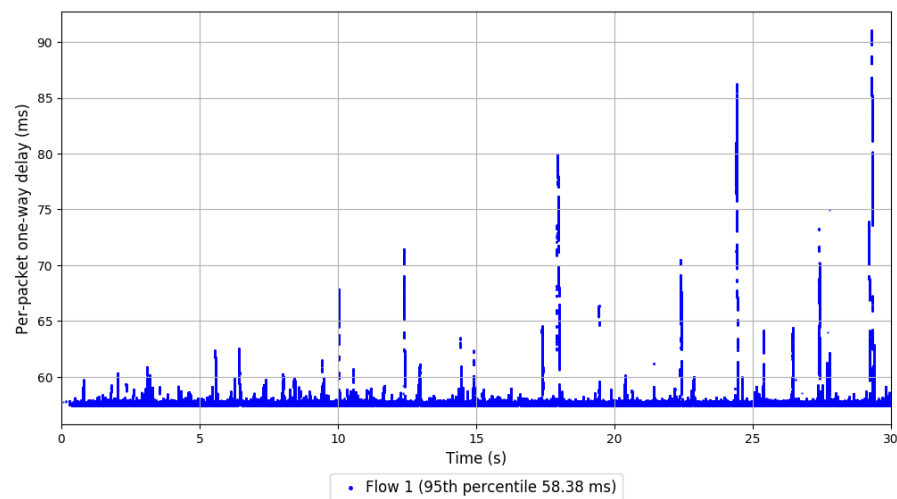
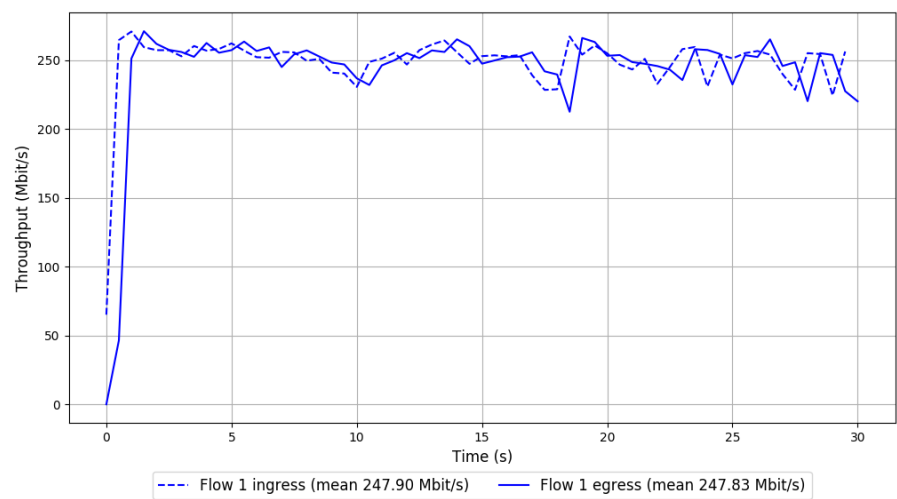


Run 5: Statistics of TaoVA-100x

Start at: 2019-03-19 17:31:09
End at: 2019-03-19 17:31:39
Local clock offset: 0.156 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2019-03-19 19:27:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 247.83 Mbit/s
95th percentile per-packet one-way delay: 58.383 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 247.83 Mbit/s
95th percentile per-packet one-way delay: 58.383 ms
Loss rate: 0.43%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-03-19 14:46:48

End at: 2019-03-19 14:47:18

Local clock offset: -0.467 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2019-03-19 19:29:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.08 Mbit/s

95th percentile per-packet one-way delay: 68.931 ms

Loss rate: 0.42%

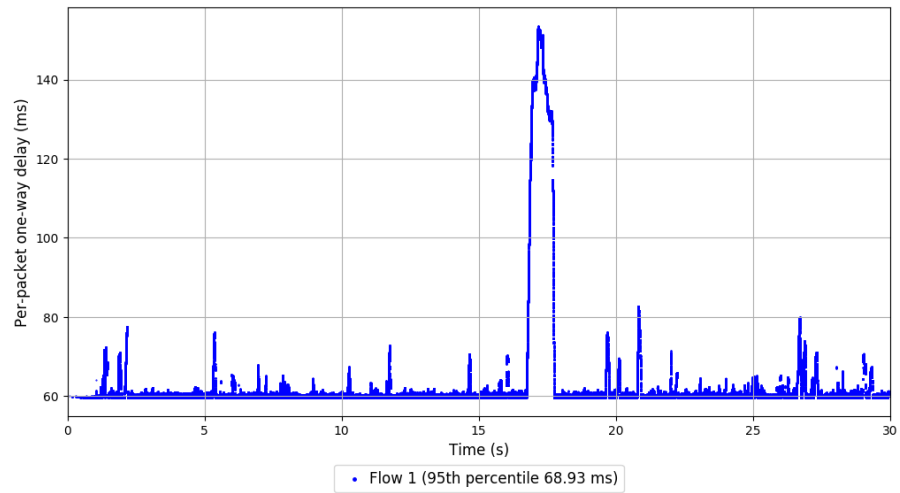
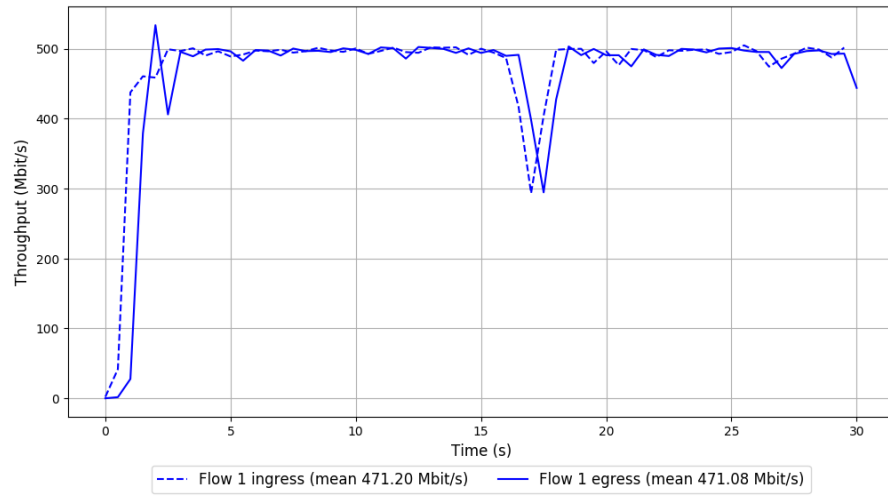
-- Flow 1:

Average throughput: 471.08 Mbit/s

95th percentile per-packet one-way delay: 68.931 ms

Loss rate: 0.42%

Run 1: Report of TCP Vegas — Data Link

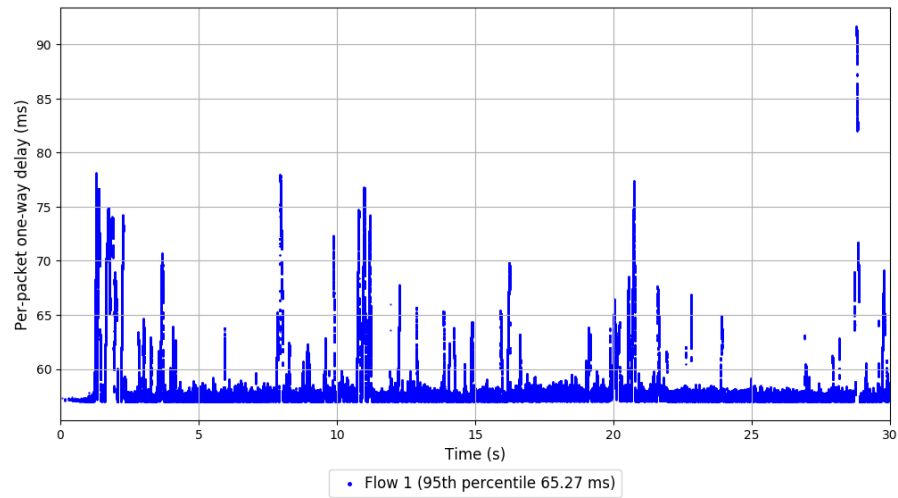
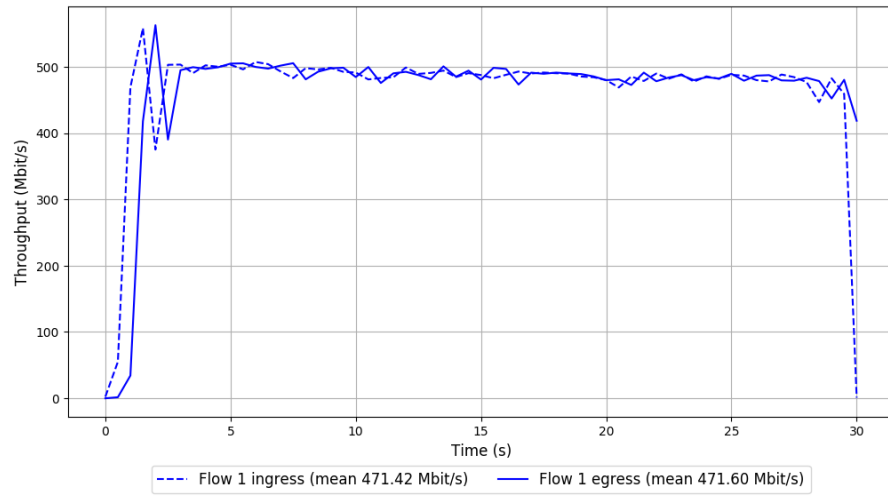


Run 2: Statistics of TCP Vegas

Start at: 2019-03-19 15:21:34
End at: 2019-03-19 15:22:04
Local clock offset: -0.081 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2019-03-19 19:33:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 471.60 Mbit/s
95th percentile per-packet one-way delay: 65.271 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 471.60 Mbit/s
95th percentile per-packet one-way delay: 65.271 ms
Loss rate: 0.34%

Run 2: Report of TCP Vegas — Data Link

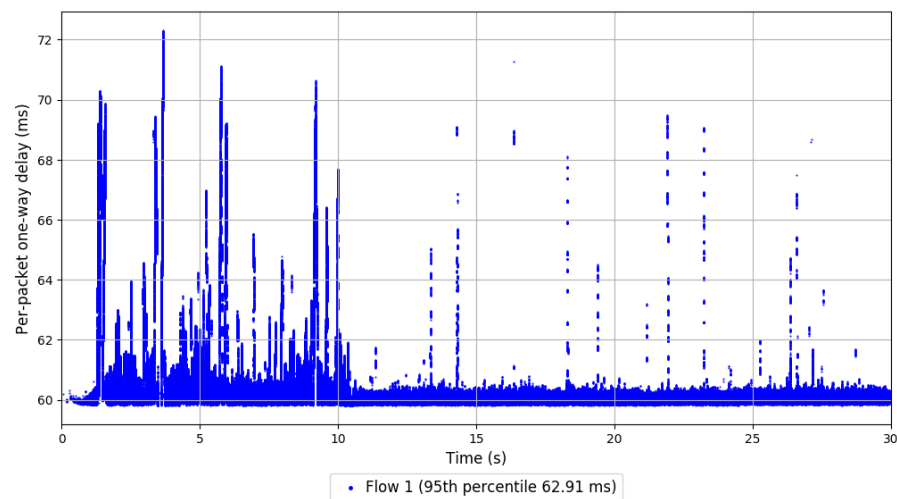
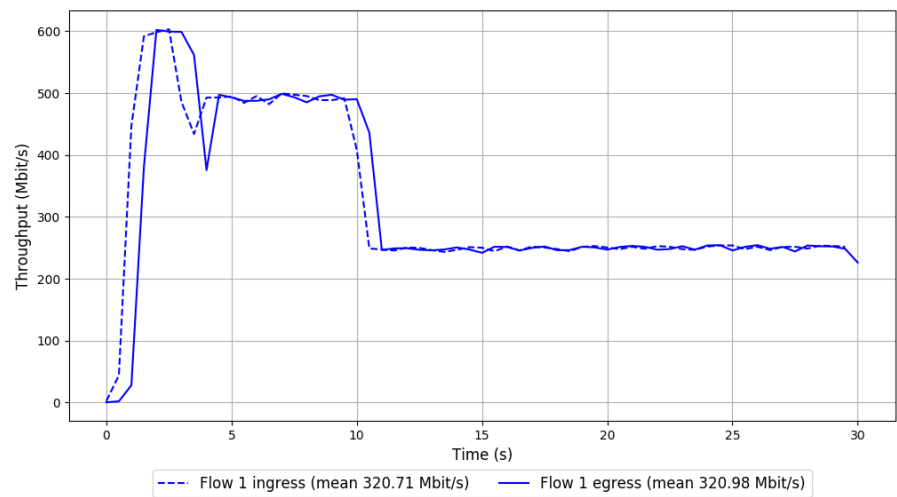


Run 3: Statistics of TCP Vegas

Start at: 2019-03-19 15:55:42
End at: 2019-03-19 15:56:12
Local clock offset: -0.281 ms
Remote clock offset: 0.099 ms

Below is generated by plot.py at 2019-03-19 19:33:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 320.98 Mbit/s
95th percentile per-packet one-way delay: 62.909 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 320.98 Mbit/s
95th percentile per-packet one-way delay: 62.909 ms
Loss rate: 0.31%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-19 16:29:52

End at: 2019-03-19 16:30:22

Local clock offset: -0.002 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2019-03-19 19:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.31 Mbit/s

95th percentile per-packet one-way delay: 62.132 ms

Loss rate: 0.39%

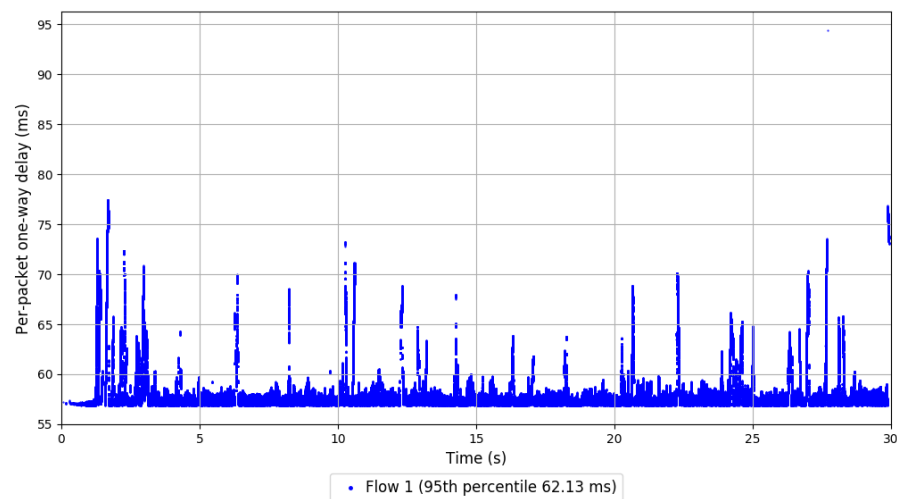
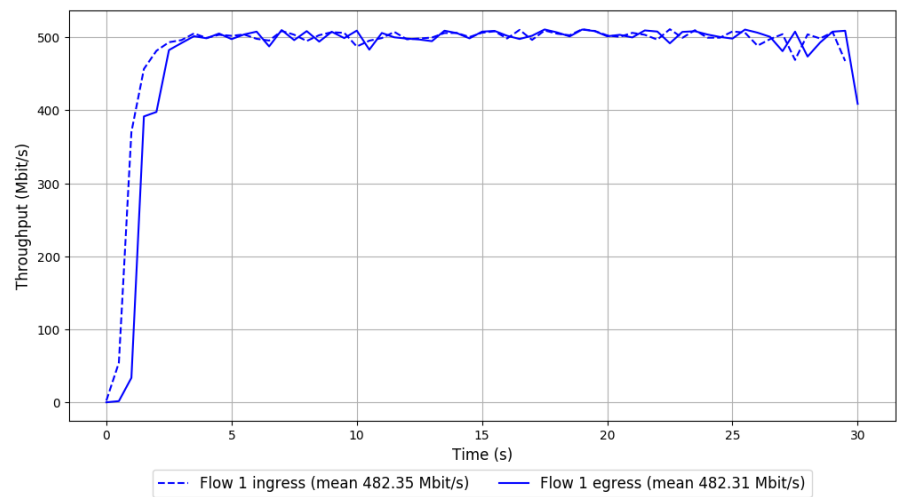
-- Flow 1:

Average throughput: 482.31 Mbit/s

95th percentile per-packet one-way delay: 62.132 ms

Loss rate: 0.39%

Run 4: Report of TCP Vegas — Data Link

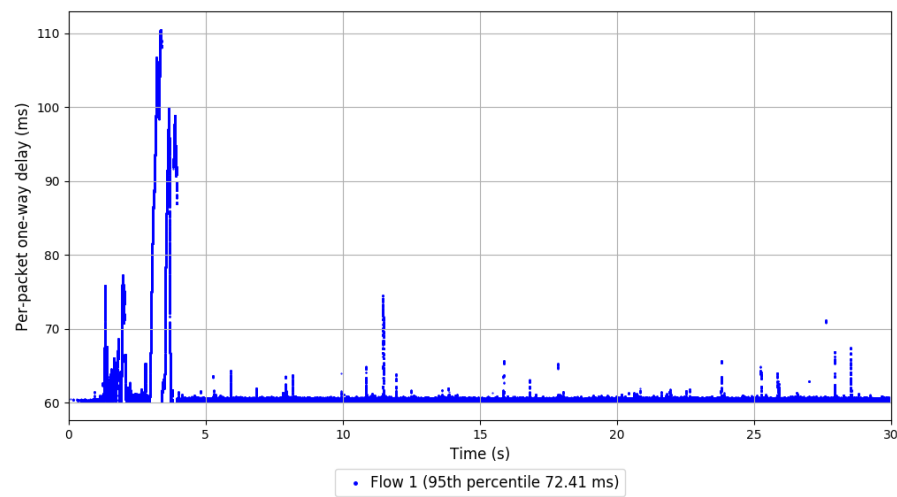
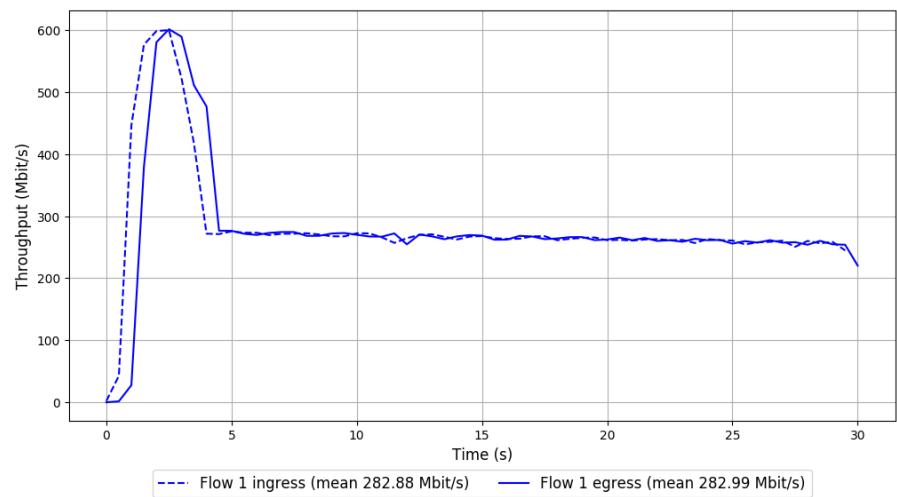


Run 5: Statistics of TCP Vegas

Start at: 2019-03-19 17:05:50
End at: 2019-03-19 17:06:20
Local clock offset: -0.138 ms
Remote clock offset: -0.125 ms

Below is generated by plot.py at 2019-03-19 19:35:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 282.99 Mbit/s
95th percentile per-packet one-way delay: 72.412 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 282.99 Mbit/s
95th percentile per-packet one-way delay: 72.412 ms
Loss rate: 0.36%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-19 15:02:03

End at: 2019-03-19 15:02:33

Local clock offset: 0.063 ms

Remote clock offset: 0.566 ms

Below is generated by plot.py at 2019-03-19 19:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.54 Mbit/s

95th percentile per-packet one-way delay: 89.861 ms

Loss rate: 0.03%

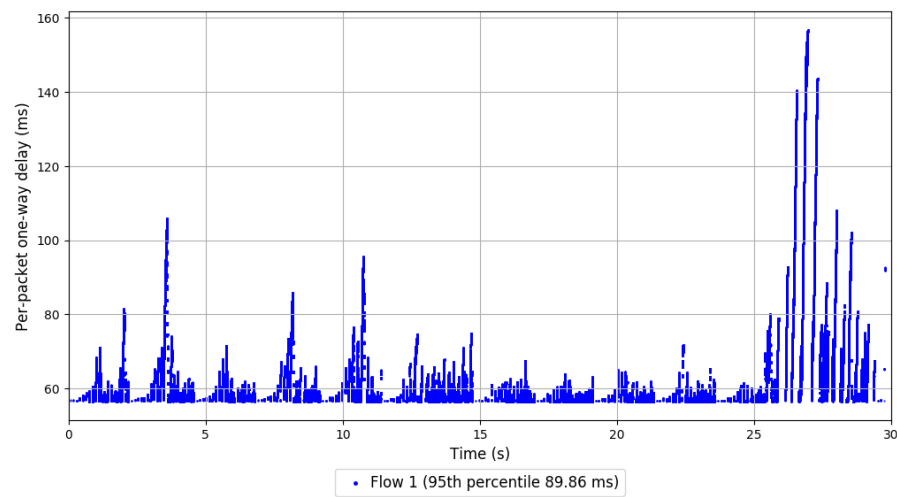
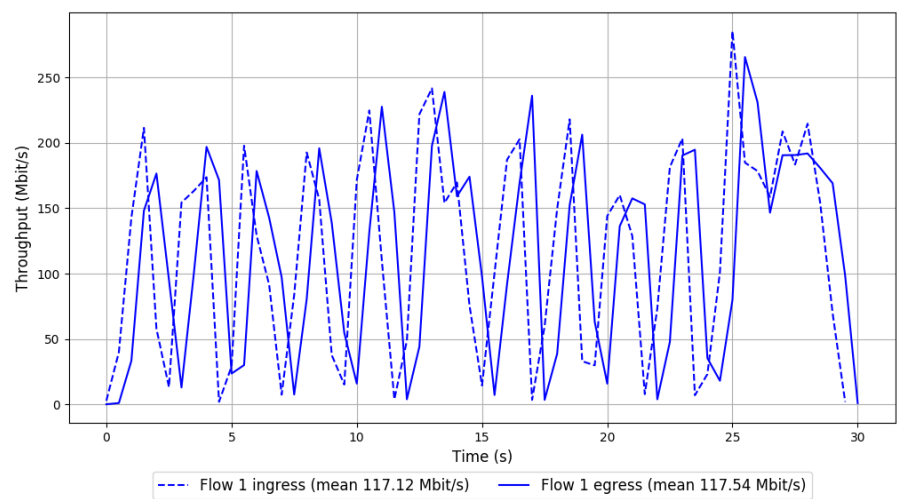
-- Flow 1:

Average throughput: 117.54 Mbit/s

95th percentile per-packet one-way delay: 89.861 ms

Loss rate: 0.03%

Run 1: Report of Verus — Data Link

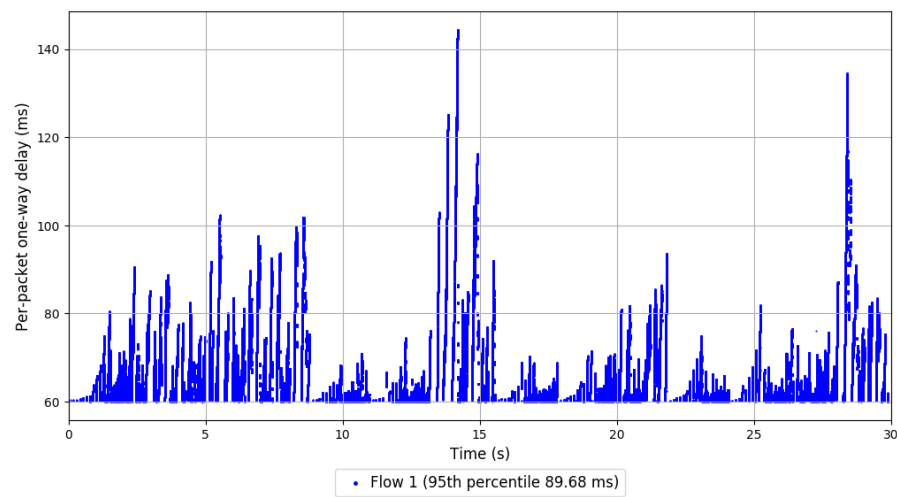
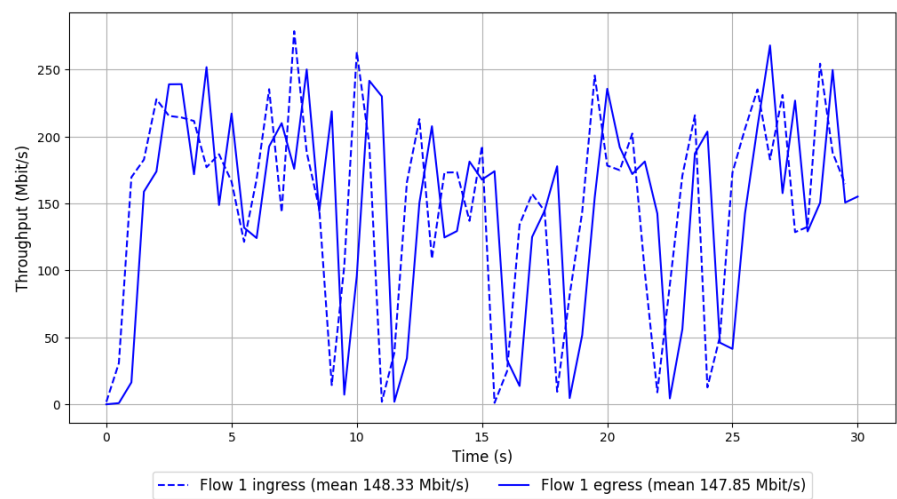


Run 2: Statistics of Verus

Start at: 2019-03-19 15:36:27
End at: 2019-03-19 15:36:57
Local clock offset: -0.331 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2019-03-19 19:35:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 147.85 Mbit/s
95th percentile per-packet one-way delay: 89.684 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 147.85 Mbit/s
95th percentile per-packet one-way delay: 89.684 ms
Loss rate: 0.76%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-19 16:10:31

End at: 2019-03-19 16:11:01

Local clock offset: 0.35 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2019-03-19 19:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.89 Mbit/s

95th percentile per-packet one-way delay: 115.546 ms

Loss rate: 0.31%

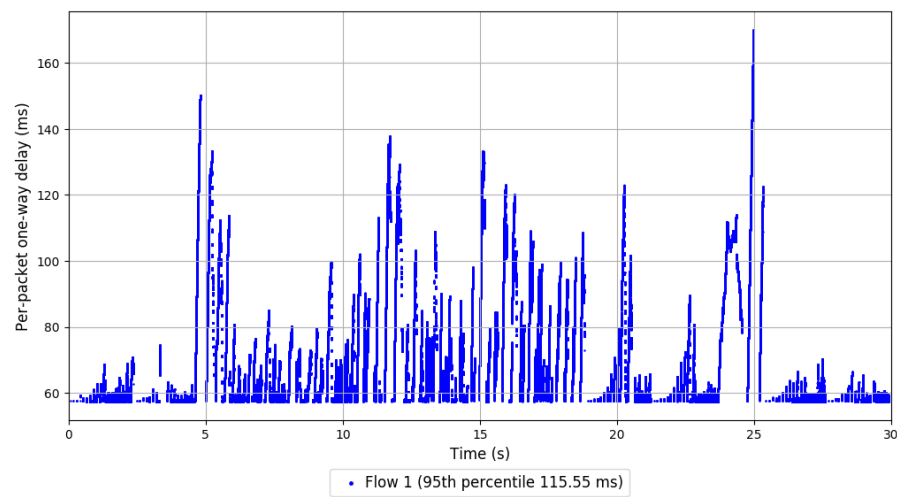
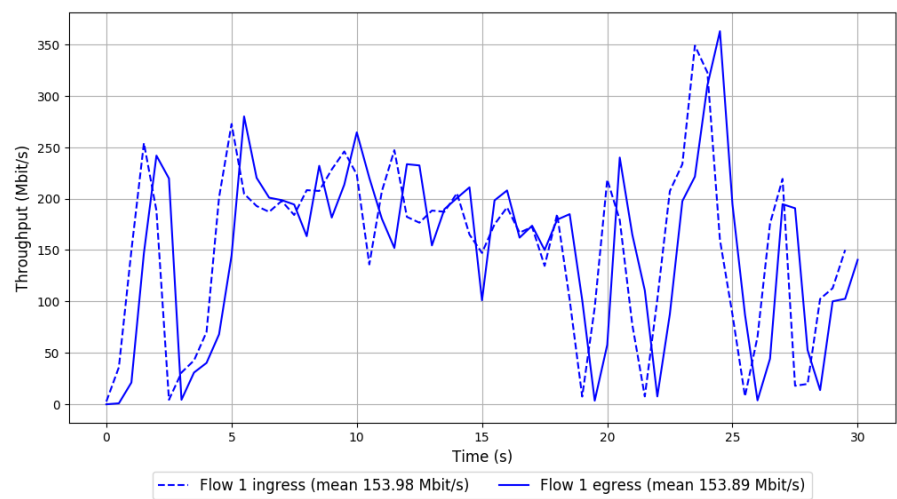
-- Flow 1:

Average throughput: 153.89 Mbit/s

95th percentile per-packet one-way delay: 115.546 ms

Loss rate: 0.31%

Run 3: Report of Verus — Data Link

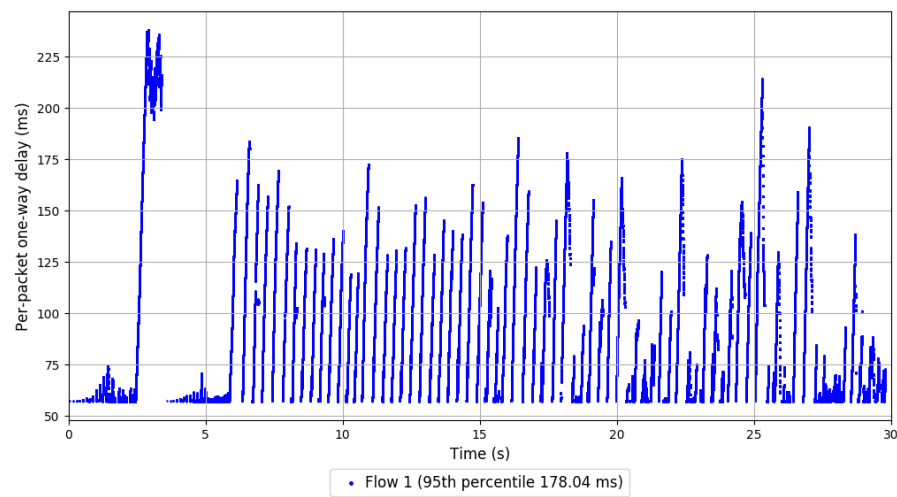
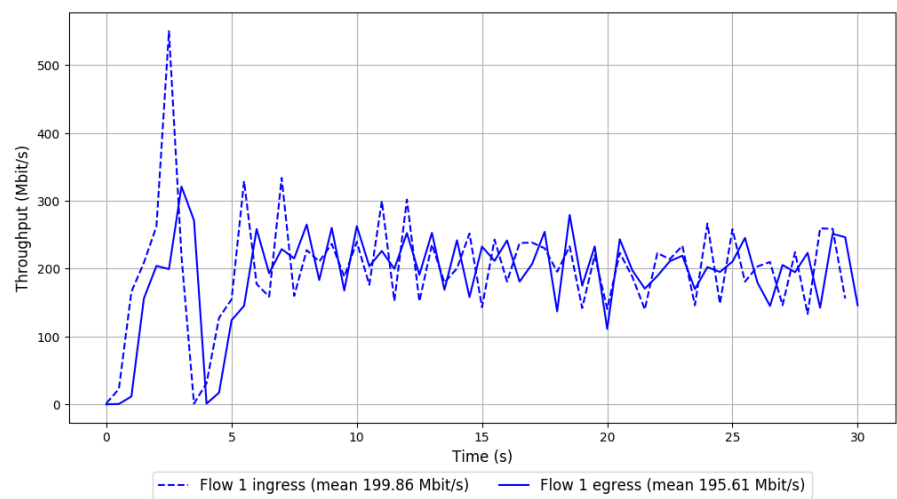


Run 4: Statistics of Verus

Start at: 2019-03-19 16:45:29
End at: 2019-03-19 16:45:59
Local clock offset: 0.014 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2019-03-19 19:36:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 195.61 Mbit/s
95th percentile per-packet one-way delay: 178.045 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 195.61 Mbit/s
95th percentile per-packet one-way delay: 178.045 ms
Loss rate: 2.84%

Run 4: Report of Verus — Data Link

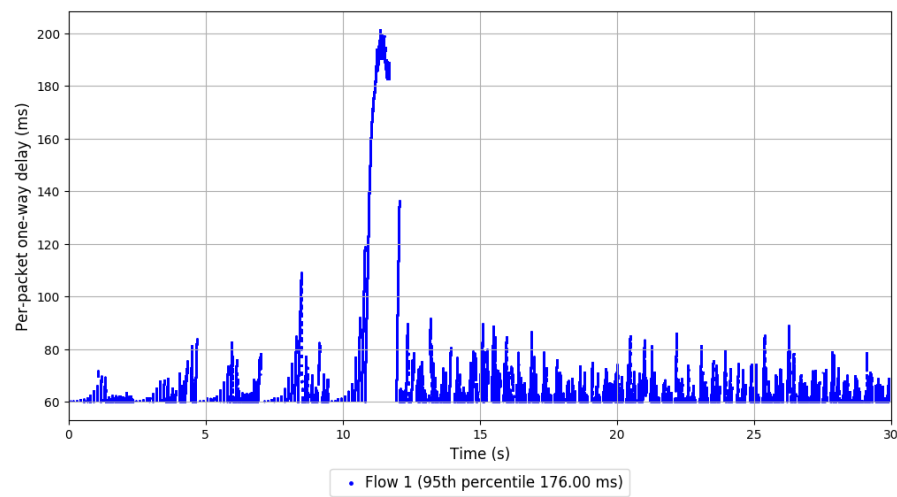
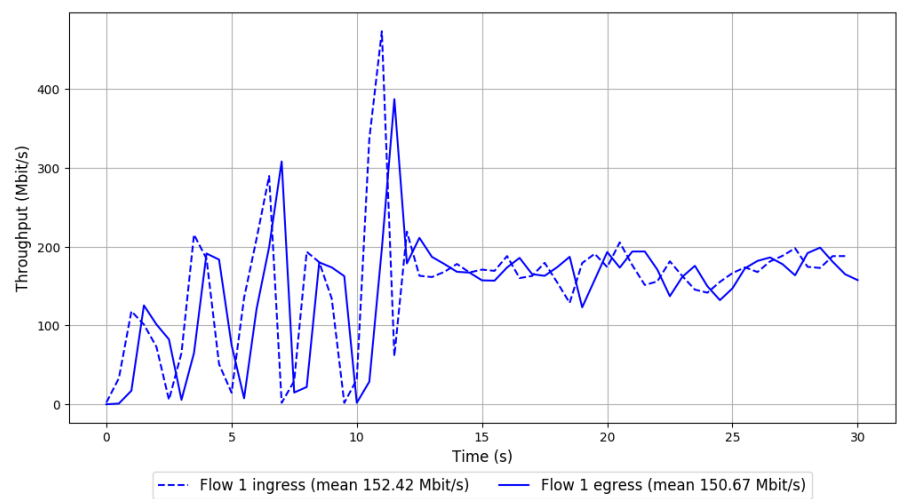


Run 5: Statistics of Verus

Start at: 2019-03-19 17:20:56
End at: 2019-03-19 17:21:27
Local clock offset: -0.245 ms
Remote clock offset: -0.159 ms

Below is generated by plot.py at 2019-03-19 19:36:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 150.67 Mbit/s
95th percentile per-packet one-way delay: 175.996 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 150.67 Mbit/s
95th percentile per-packet one-way delay: 175.996 ms
Loss rate: 1.54%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-19 15:03:24

End at: 2019-03-19 15:03:54

Local clock offset: 0.272 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-03-19 19:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.63 Mbit/s

95th percentile per-packet one-way delay: 58.086 ms

Loss rate: 0.59%

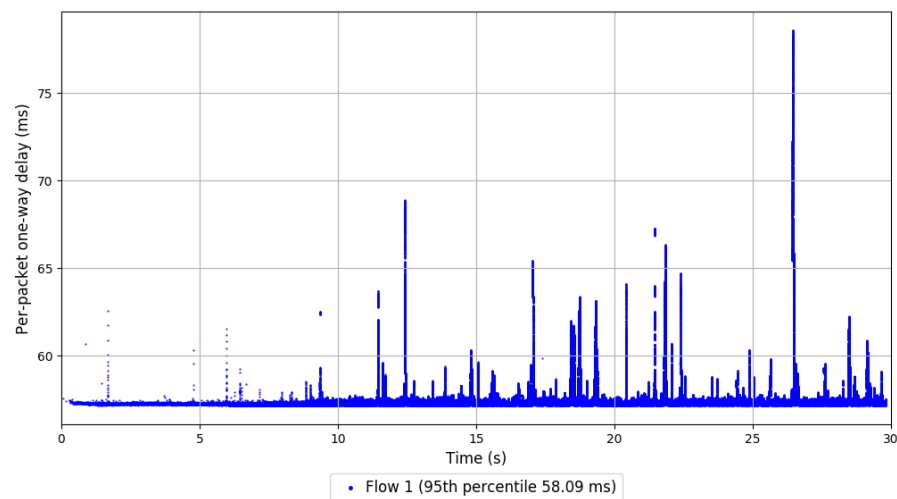
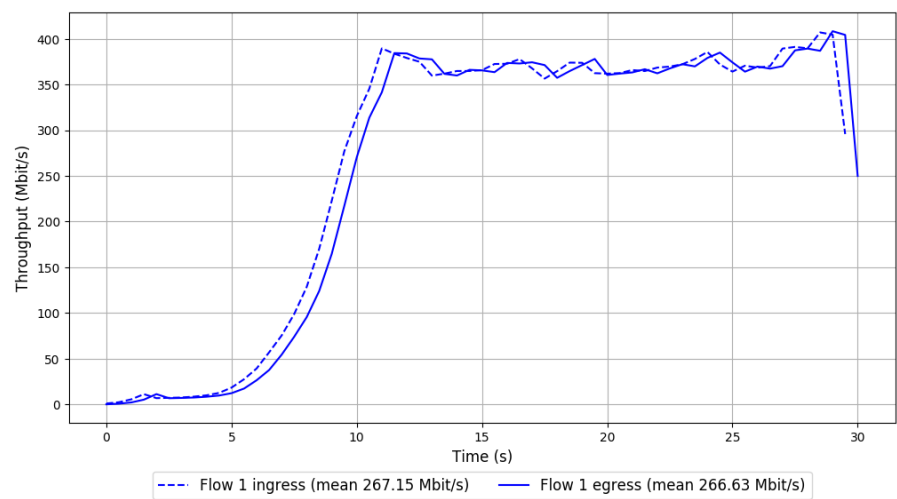
-- Flow 1:

Average throughput: 266.63 Mbit/s

95th percentile per-packet one-way delay: 58.086 ms

Loss rate: 0.59%

Run 1: Report of PCC-Vivace — Data Link

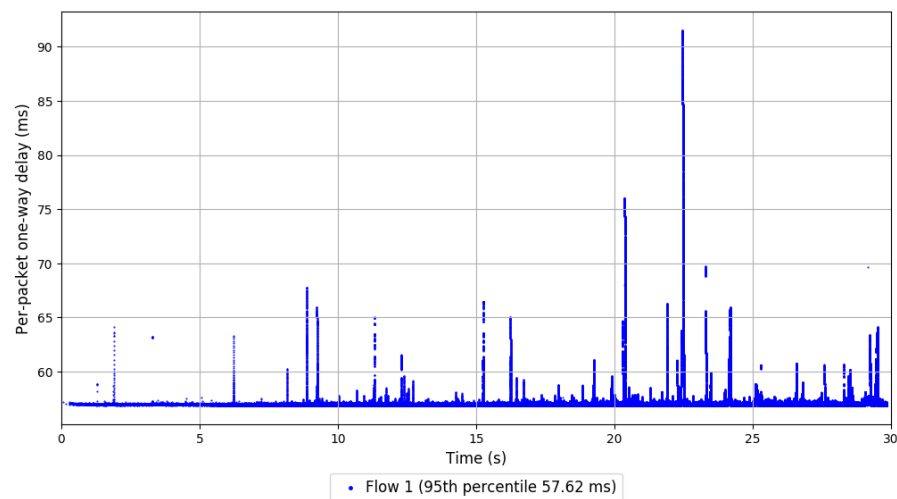
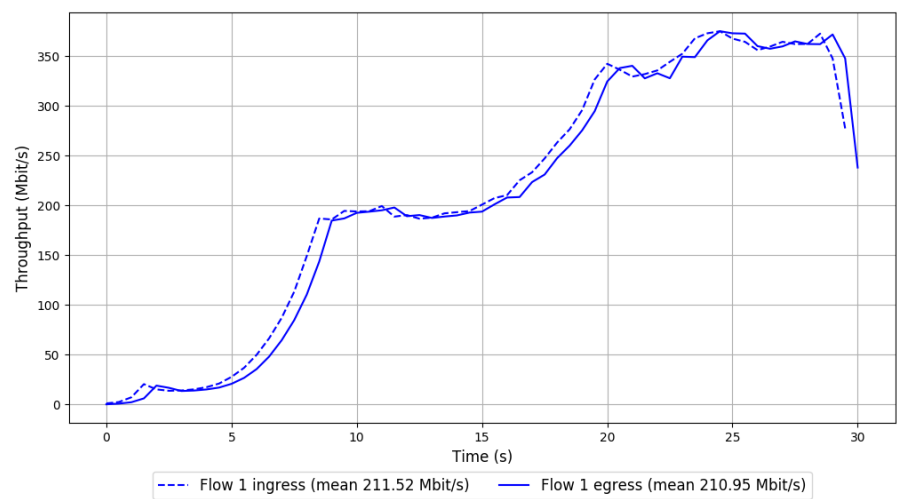


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-19 15:37:57
End at: 2019-03-19 15:38:27
Local clock offset: -0.191 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2019-03-19 19:36:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 210.95 Mbit/s
95th percentile per-packet one-way delay: 57.618 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 210.95 Mbit/s
95th percentile per-packet one-way delay: 57.618 ms
Loss rate: 0.65%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-03-19 16:12:03

End at: 2019-03-19 16:12:33

Local clock offset: 0.361 ms

Remote clock offset: -0.601 ms

Below is generated by plot.py at 2019-03-19 19:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.55 Mbit/s

95th percentile per-packet one-way delay: 69.042 ms

Loss rate: 0.39%

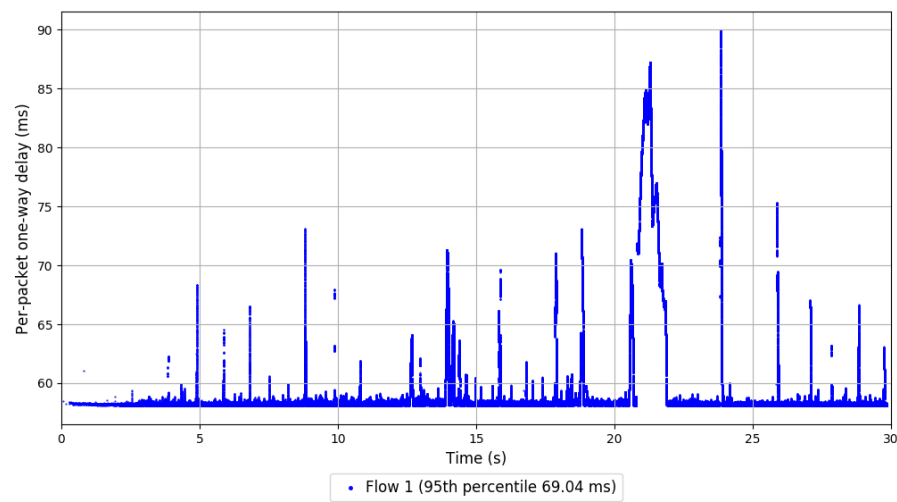
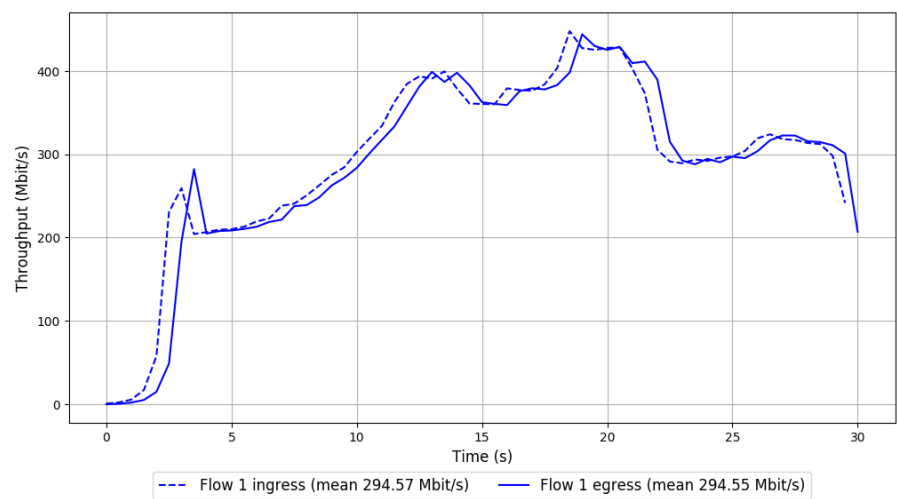
-- Flow 1:

Average throughput: 294.55 Mbit/s

95th percentile per-packet one-way delay: 69.042 ms

Loss rate: 0.39%

Run 3: Report of PCC-Vivace — Data Link

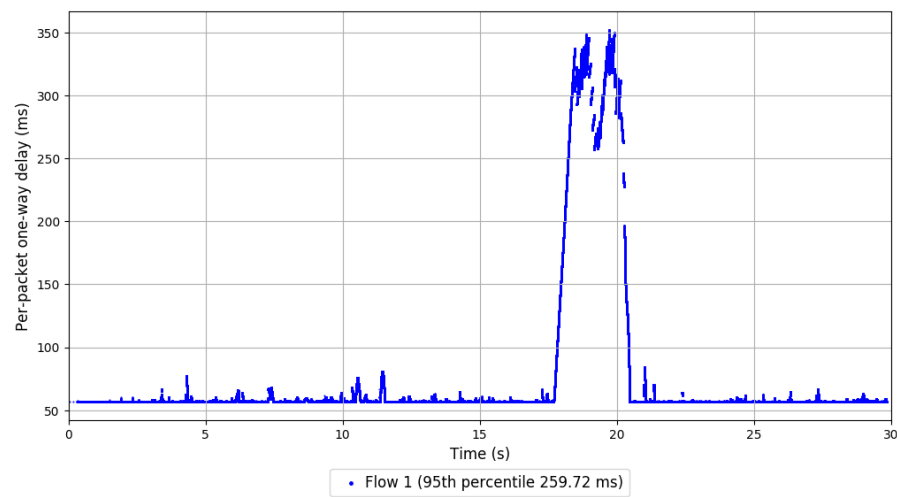
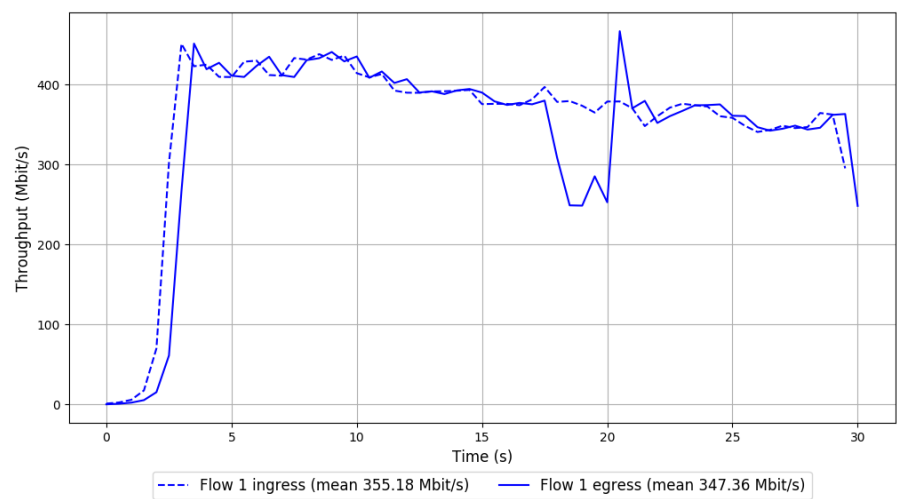


Run 4: Statistics of PCC-Vivace

Start at: 2019-03-19 16:47:09
End at: 2019-03-19 16:47:39
Local clock offset: -0.359 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2019-03-19 19:36:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 347.36 Mbit/s
95th percentile per-packet one-way delay: 259.721 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 347.36 Mbit/s
95th percentile per-packet one-way delay: 259.721 ms
Loss rate: 2.59%

Run 4: Report of PCC-Vivace — Data Link

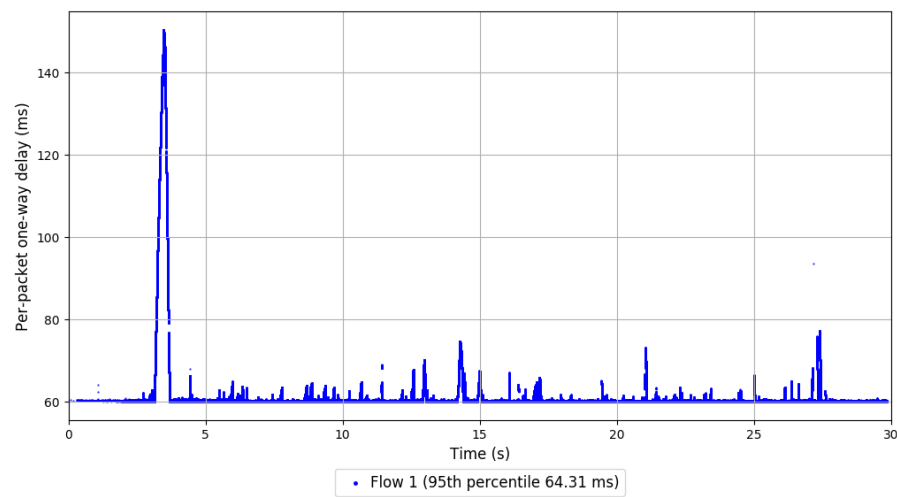
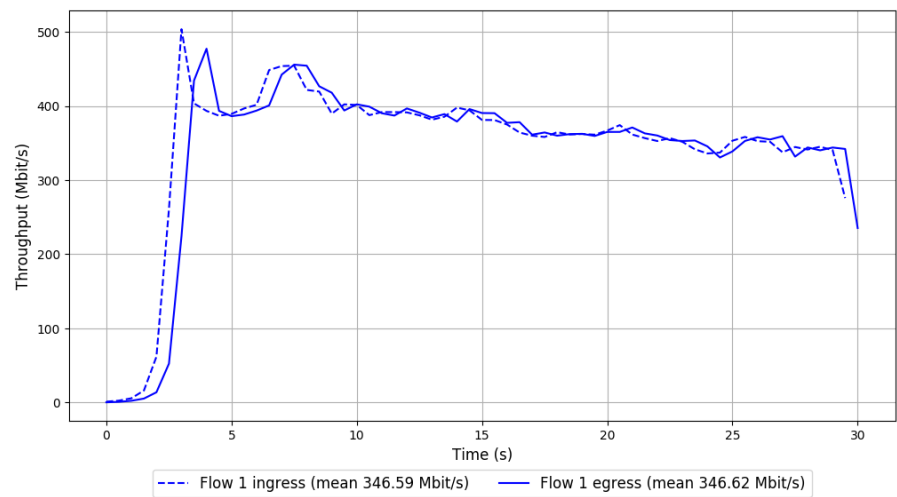


Run 5: Statistics of PCC-Vivace

Start at: 2019-03-19 17:22:34
End at: 2019-03-19 17:23:04
Local clock offset: -0.217 ms
Remote clock offset: -0.132 ms

Below is generated by plot.py at 2019-03-19 19:36:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 346.62 Mbit/s
95th percentile per-packet one-way delay: 64.309 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 346.62 Mbit/s
95th percentile per-packet one-way delay: 64.309 ms
Loss rate: 0.40%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

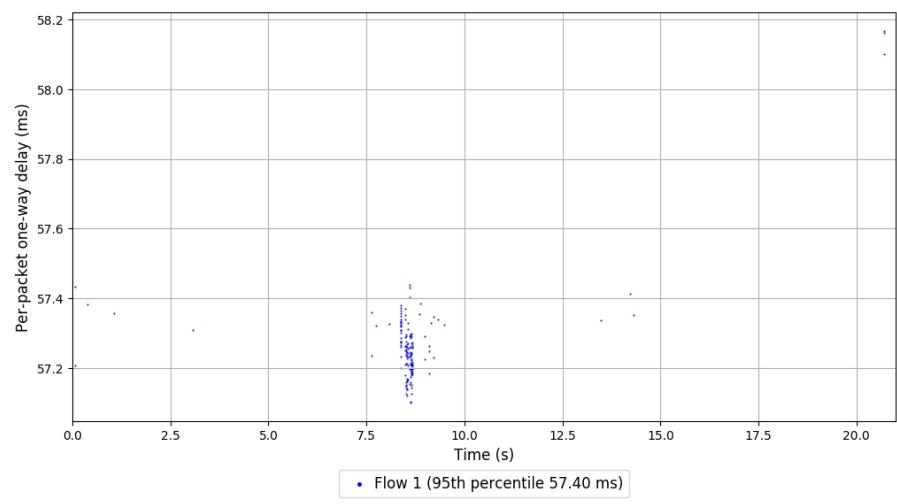
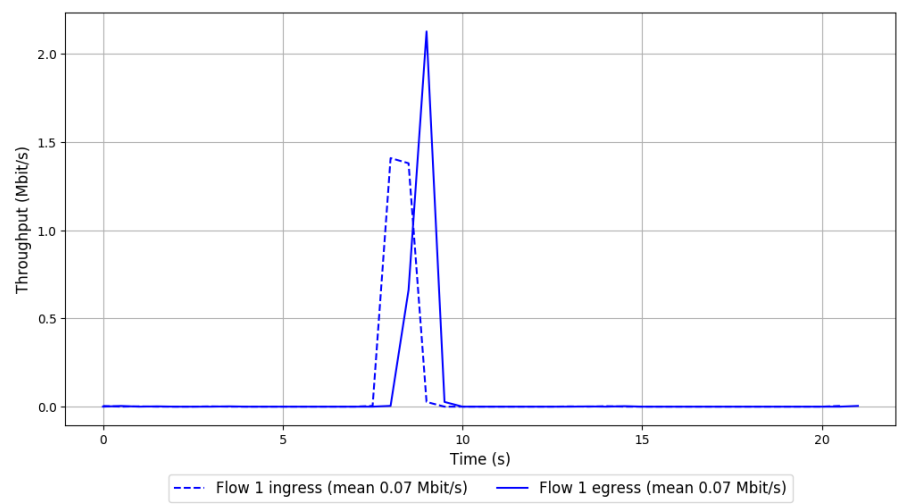
Start at: 2019-03-19 14:48:20

End at: 2019-03-19 14:48:50

Local clock offset: -0.381 ms

Remote clock offset: -0.188 ms

Run 1: Report of WebRTC media — Data Link

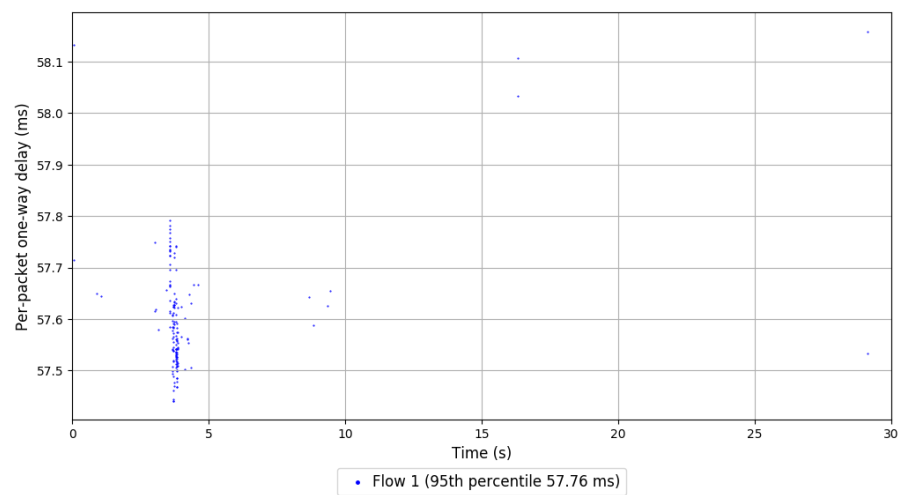
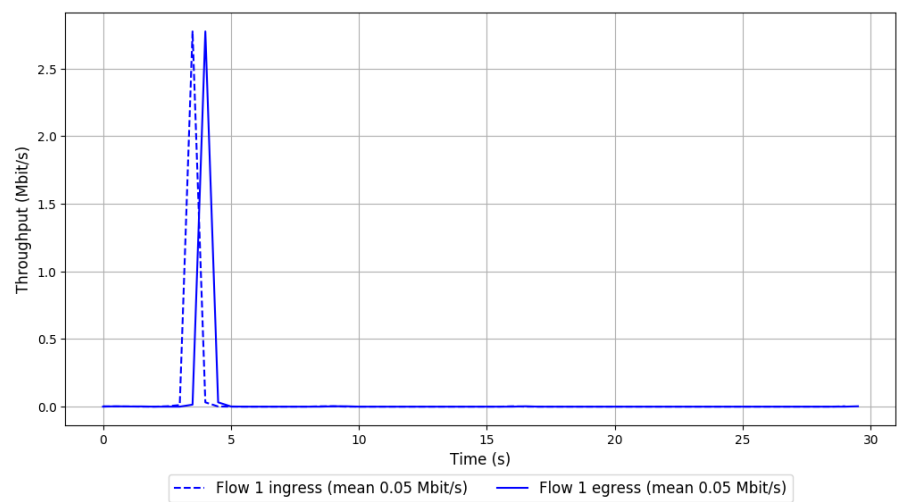


Run 2: Statistics of WebRTC media

Start at: 2019-03-19 15:23:14
End at: 2019-03-19 15:23:44
Local clock offset: 0.327 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2019-03-19 19:36:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.758 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.758 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

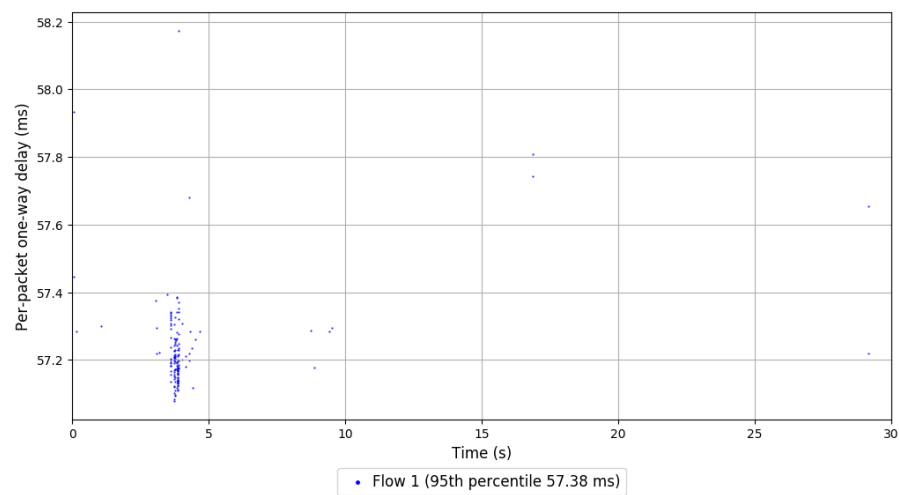
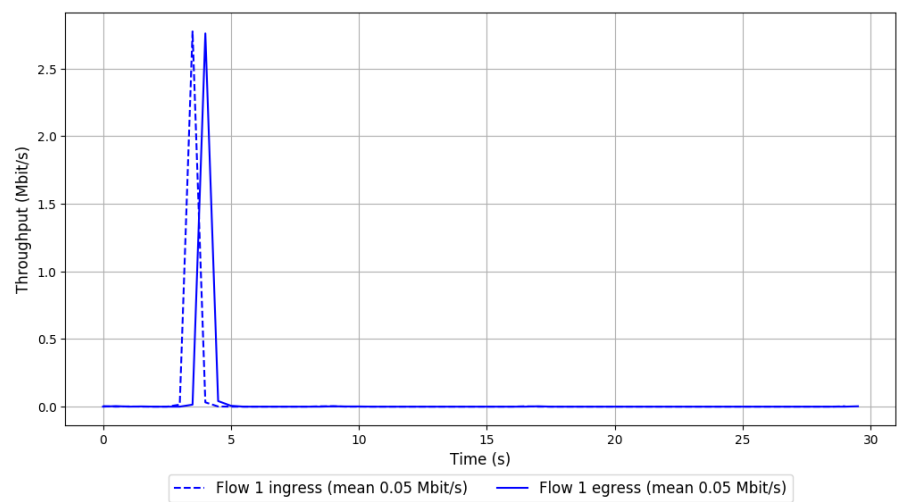


Run 3: Statistics of WebRTC media

Start at: 2019-03-19 15:57:15
End at: 2019-03-19 15:57:45
Local clock offset: -0.104 ms
Remote clock offset: -0.299 ms

Below is generated by plot.py at 2019-03-19 19:36:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 57.385 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-19 16:31:53

End at: 2019-03-19 16:32:23

Local clock offset: -0.441 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2019-03-19 19:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 56.809 ms

Loss rate: 0.00%

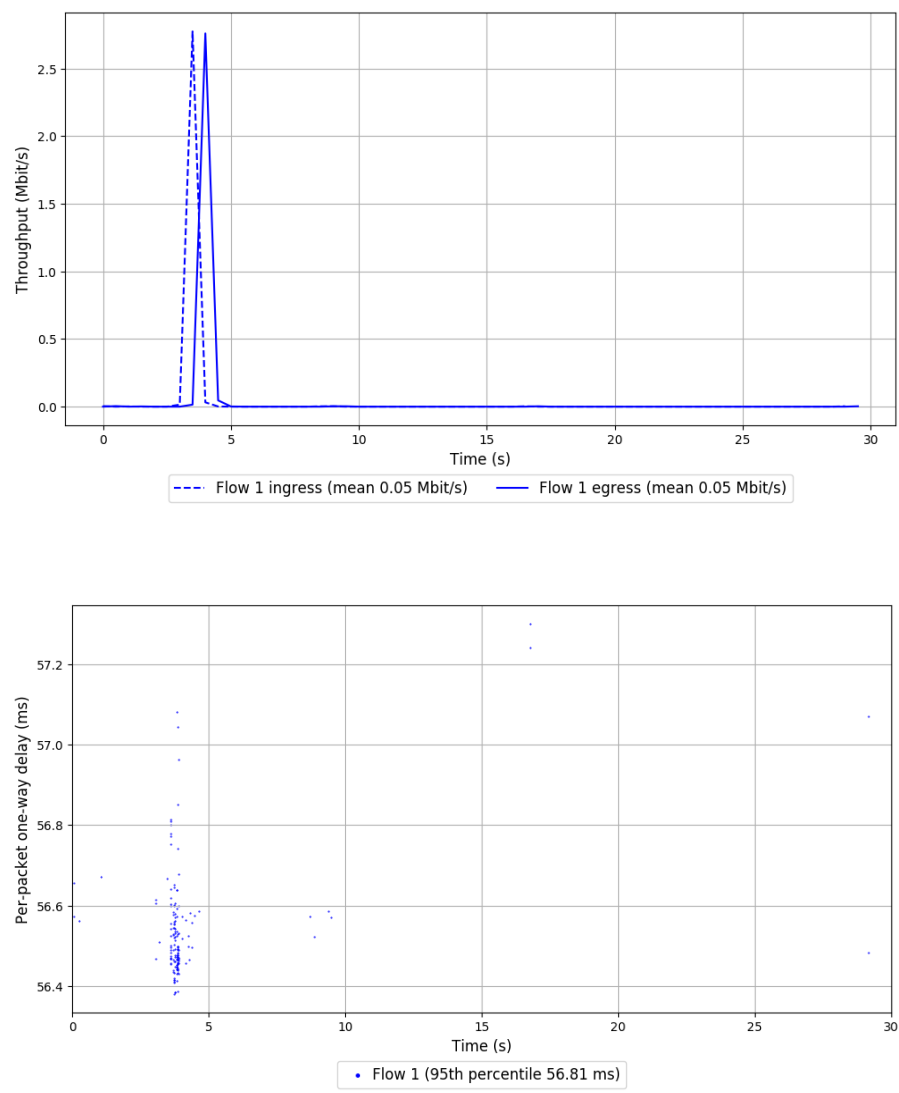
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 56.809 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-19 17:07:23
End at: 2019-03-19 17:07:53
Local clock offset: -0.214 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2019-03-19 19:36:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 60.654 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 60.654 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

