

Pantheon Report

Generated at 2019-03-09 00:11:33 (UTC).

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

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:

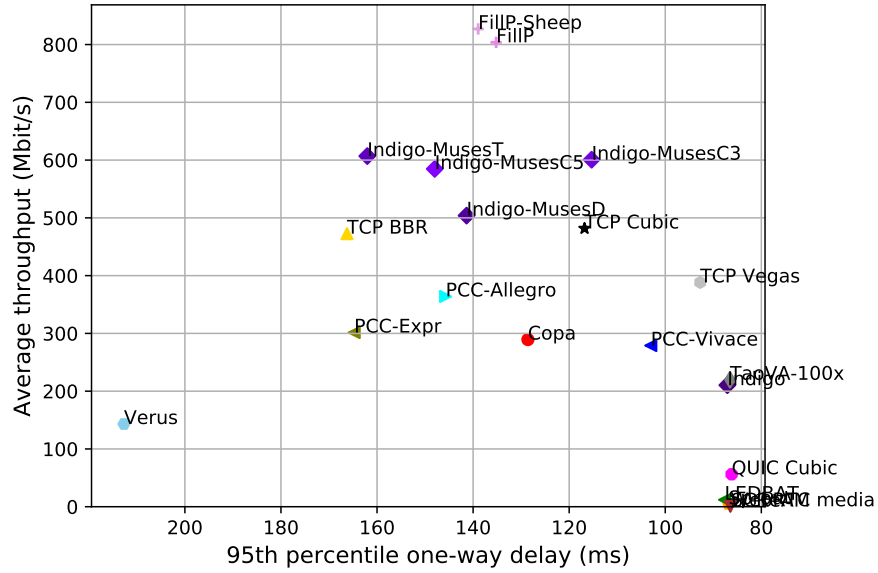
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

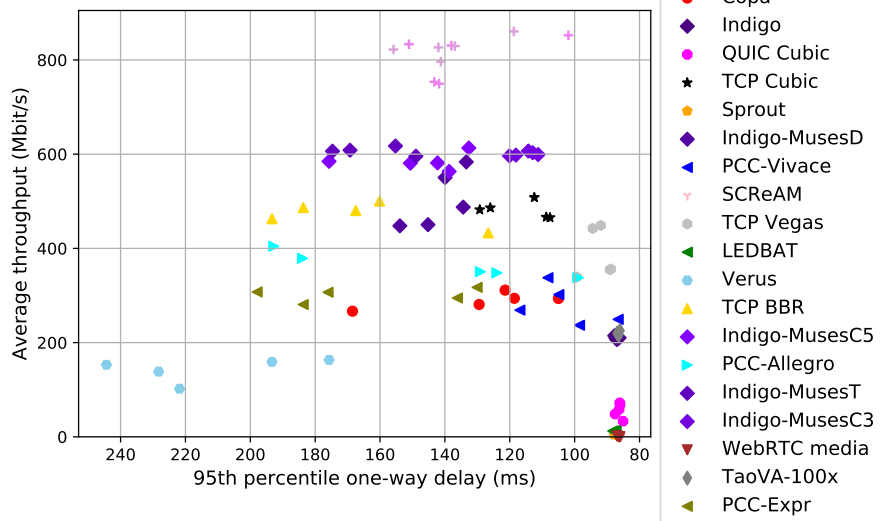
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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 Sydney to GCE Iowa, 5 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney to GCE Iowa, 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	472.68	166.25	0.59
Copa	5	289.34	128.59	0.01
TCP Cubic	5	481.66	116.80	0.00
FillP	5	803.84	135.21	0.86
FillP-Sheep	5	827.00	138.95	0.83
Indigo	5	210.41	87.07	0.00
Indigo-MusesC3	5	600.64	115.33	0.05
Indigo-MusesC5	5	584.69	147.99	0.11
Indigo-MusesD	5	503.93	141.36	0.02
Indigo-MusesT	4	606.93	162.03	0.21
LEDBAT	5	11.97	87.66	0.00
PCC-Allegro	5	363.94	145.71	0.59
PCC-Expr	5	301.44	164.77	1.21
QUIC Cubic	5	56.17	86.18	0.00
SCReAM	5	0.22	86.31	0.00
Sprout	5	4.36	86.84	0.00
TaoVA-100x	5	219.72	86.53	0.00
TCP Vegas	5	388.26	92.73	0.00
Verus	5	143.18	212.69	2.92
PCC-Vivace	5	279.00	103.01	0.11
WebRTC media	5	0.80	86.45	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-08 19:48:09

End at: 2019-03-08 19:48:39

Local clock offset: 2.581 ms

Remote clock offset: 2.792 ms

Below is generated by plot.py at 2019-03-08 22:38:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.45 Mbit/s

95th percentile per-packet one-way delay: 160.159 ms

Loss rate: 0.21%

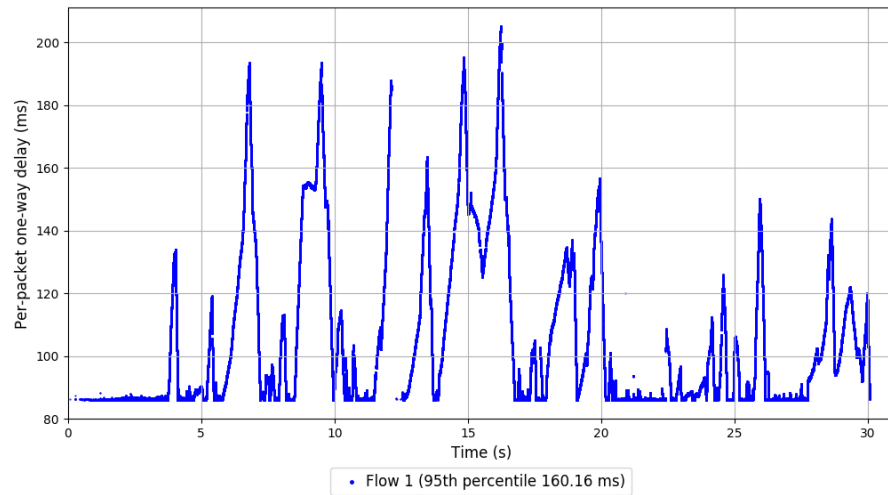
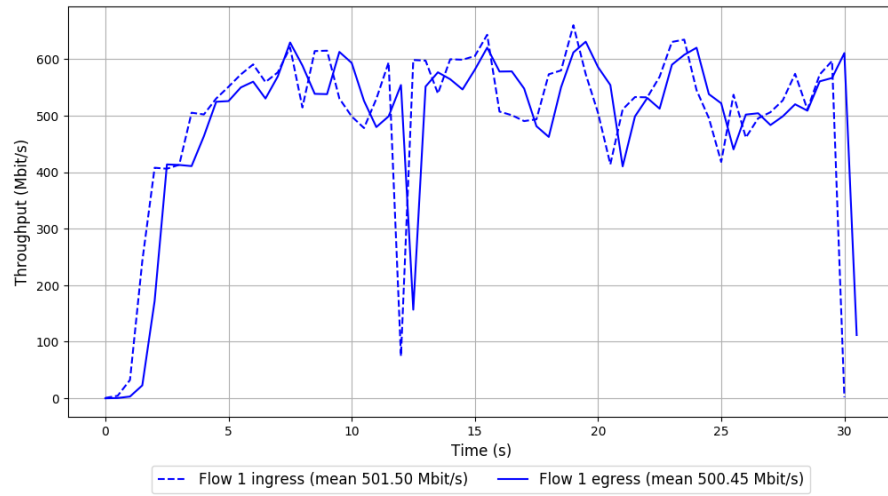
-- Flow 1:

Average throughput: 500.45 Mbit/s

95th percentile per-packet one-way delay: 160.159 ms

Loss rate: 0.21%

Run 1: Report of TCP BBR — Data Link

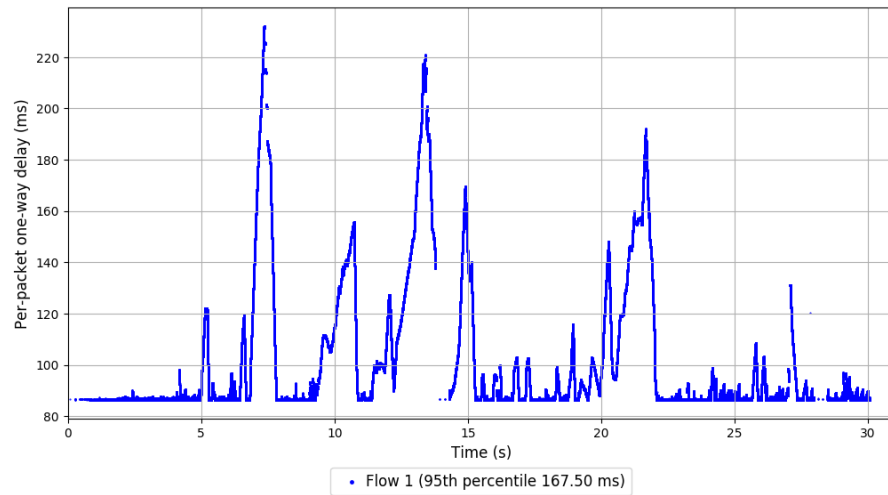
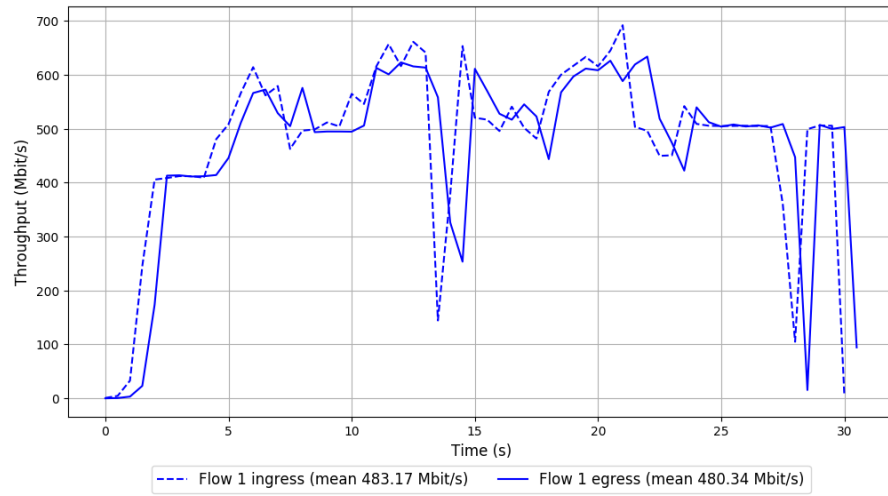


Run 2: Statistics of TCP BBR

Start at: 2019-03-08 20:19:16
End at: 2019-03-08 20:19:46
Local clock offset: 15.242 ms
Remote clock offset: 14.634 ms

Below is generated by plot.py at 2019-03-08 22:38:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 480.34 Mbit/s
95th percentile per-packet one-way delay: 167.498 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 480.34 Mbit/s
95th percentile per-packet one-way delay: 167.498 ms
Loss rate: 0.59%

Run 2: Report of TCP BBR — Data Link

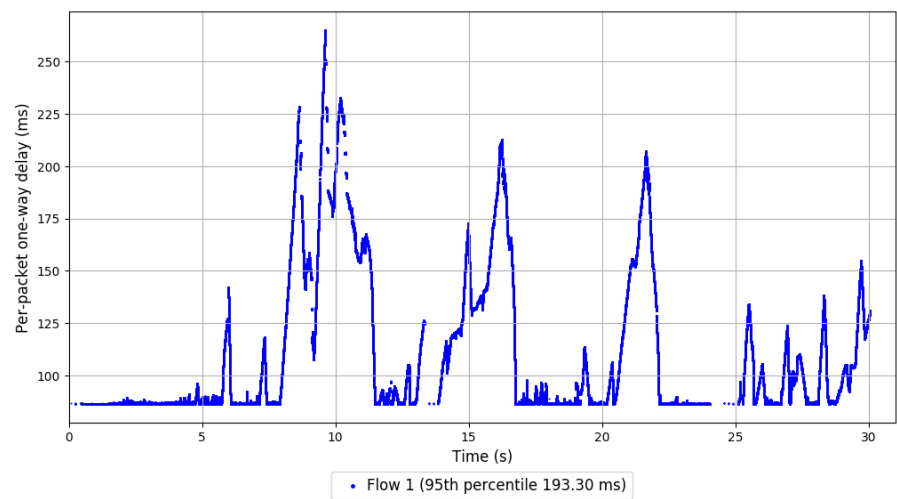
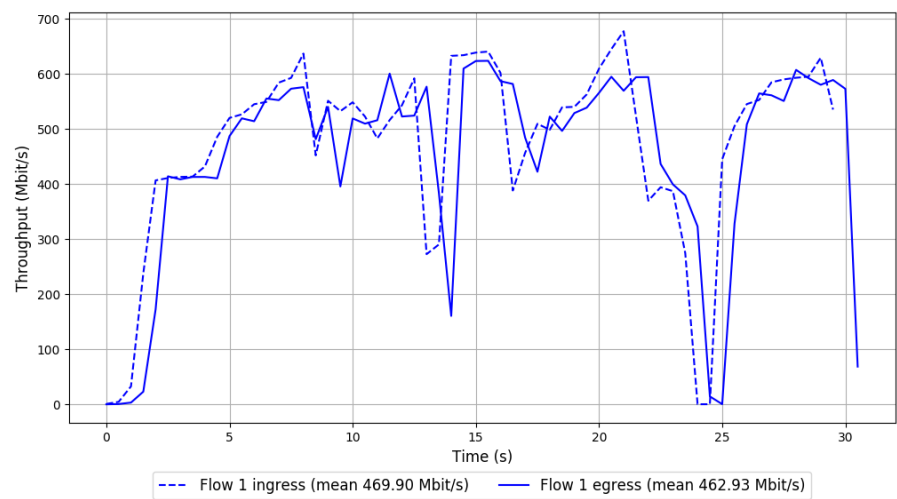


Run 3: Statistics of TCP BBR

Start at: 2019-03-08 20:50:23
End at: 2019-03-08 20:50:53
Local clock offset: 21.868 ms
Remote clock offset: 20.788 ms

Below is generated by plot.py at 2019-03-08 22:38:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 462.93 Mbit/s
95th percentile per-packet one-way delay: 193.304 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 462.93 Mbit/s
95th percentile per-packet one-way delay: 193.304 ms
Loss rate: 1.48%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-03-08 21:21:39

End at: 2019-03-08 21:22:09

Local clock offset: 5.524 ms

Remote clock offset: 9.919 ms

Below is generated by plot.py at 2019-03-08 22:38:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.74 Mbit/s

95th percentile per-packet one-way delay: 183.646 ms

Loss rate: 0.69%

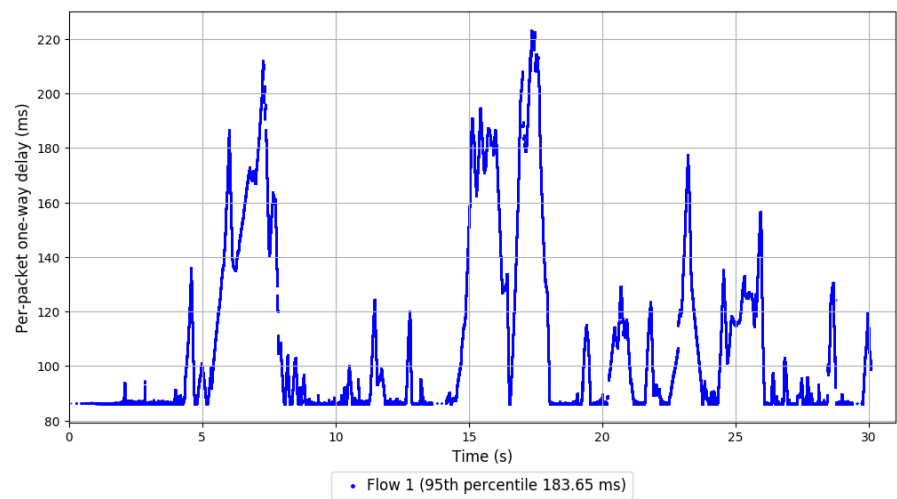
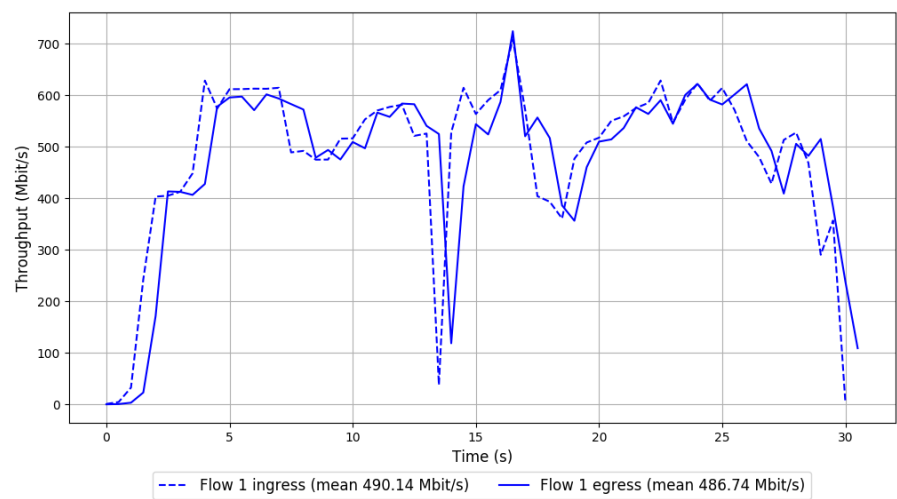
-- Flow 1:

Average throughput: 486.74 Mbit/s

95th percentile per-packet one-way delay: 183.646 ms

Loss rate: 0.69%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-03-08 21:53:02

End at: 2019-03-08 21:53:32

Local clock offset: 2.395 ms

Remote clock offset: 4.484 ms

Below is generated by plot.py at 2019-03-08 22:38:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.92 Mbit/s

95th percentile per-packet one-way delay: 126.641 ms

Loss rate: 0.00%

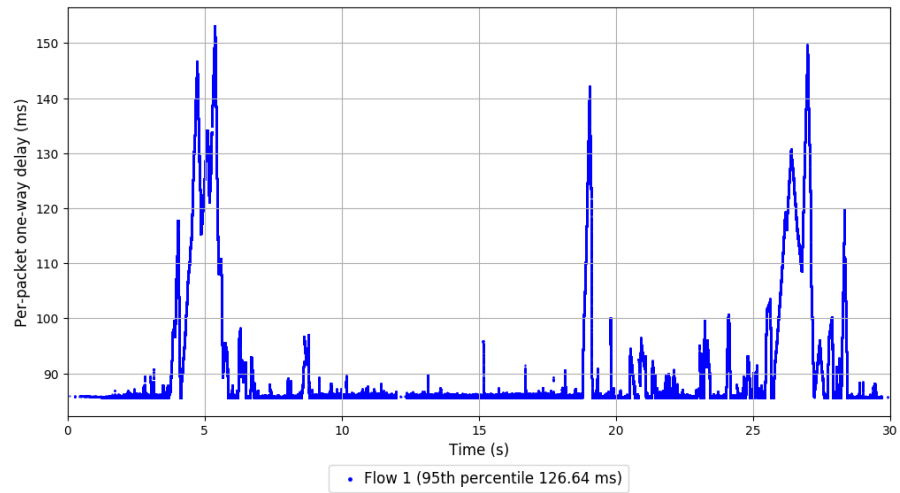
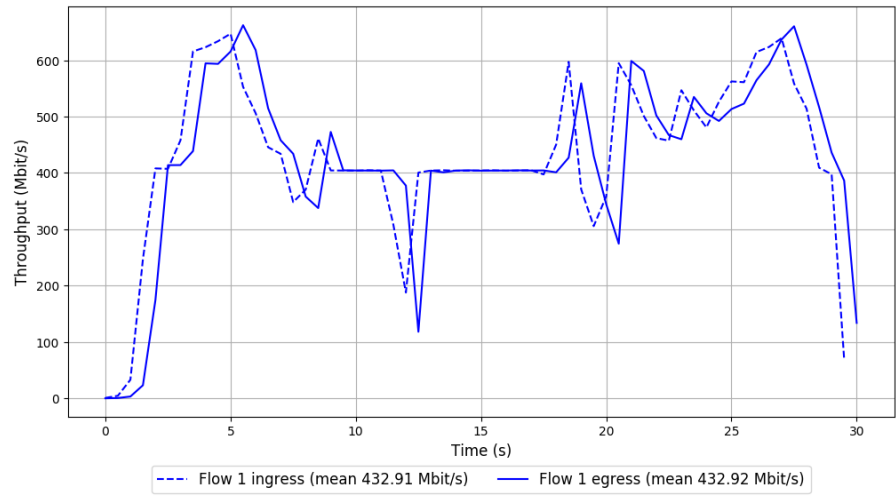
-- Flow 1:

Average throughput: 432.92 Mbit/s

95th percentile per-packet one-way delay: 126.641 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-03-08 19:51:15

End at: 2019-03-08 19:51:45

Local clock offset: 3.746 ms

Remote clock offset: 4.094 ms

Below is generated by plot.py at 2019-03-08 22:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.01 Mbit/s

95th percentile per-packet one-way delay: 129.446 ms

Loss rate: 0.00%

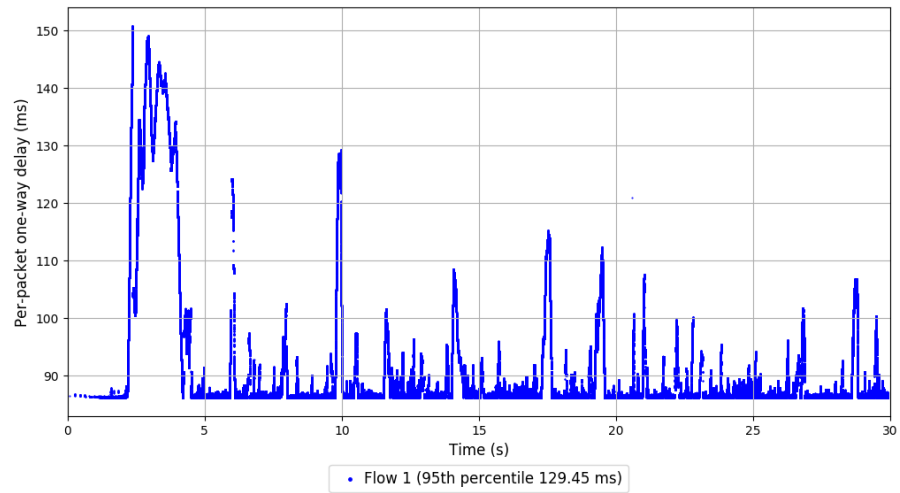
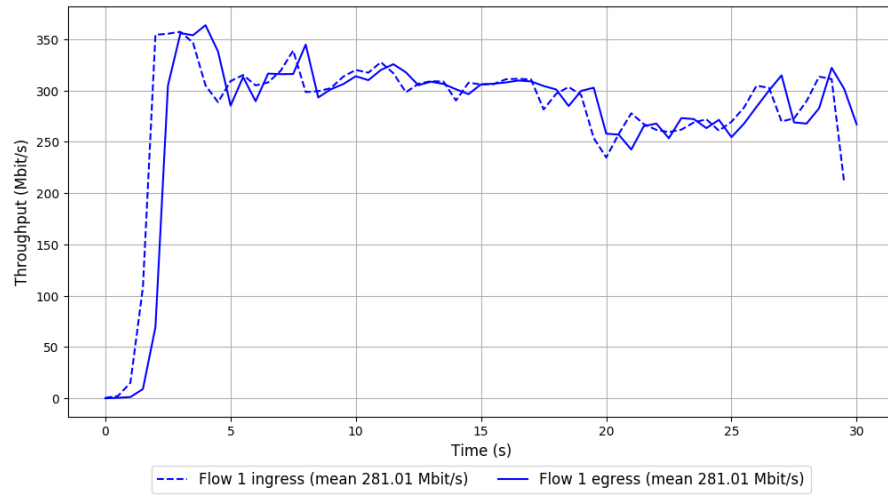
-- Flow 1:

Average throughput: 281.01 Mbit/s

95th percentile per-packet one-way delay: 129.446 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

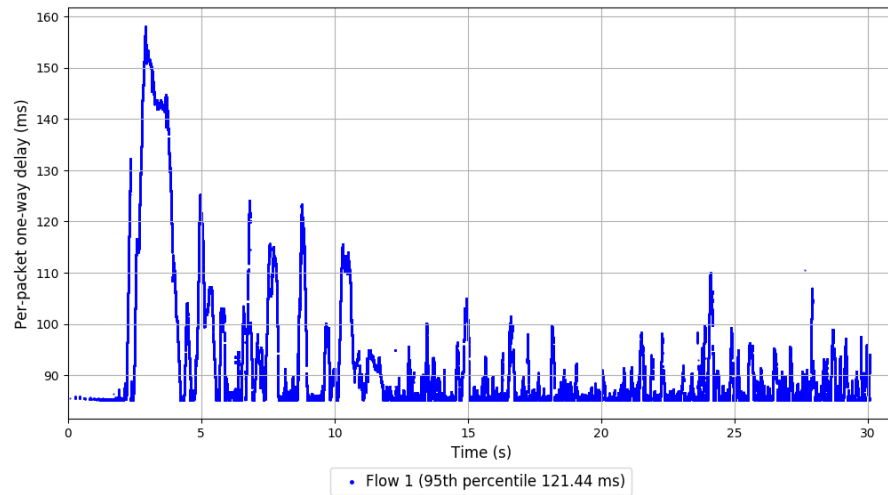
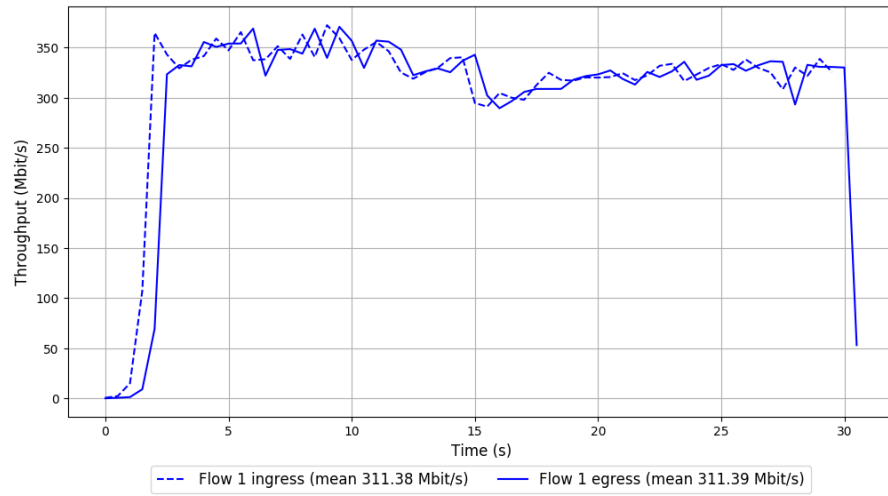


Run 2: Statistics of Copa

Start at: 2019-03-08 20:22:21
End at: 2019-03-08 20:22:51
Local clock offset: 13.603 ms
Remote clock offset: 12.154 ms

Below is generated by plot.py at 2019-03-08 22:40:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 311.39 Mbit/s
95th percentile per-packet one-way delay: 121.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 311.39 Mbit/s
95th percentile per-packet one-way delay: 121.441 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

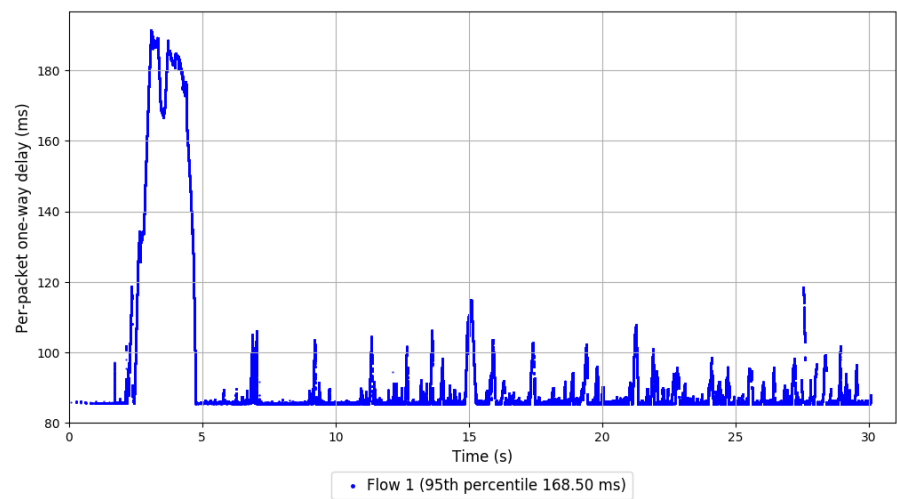
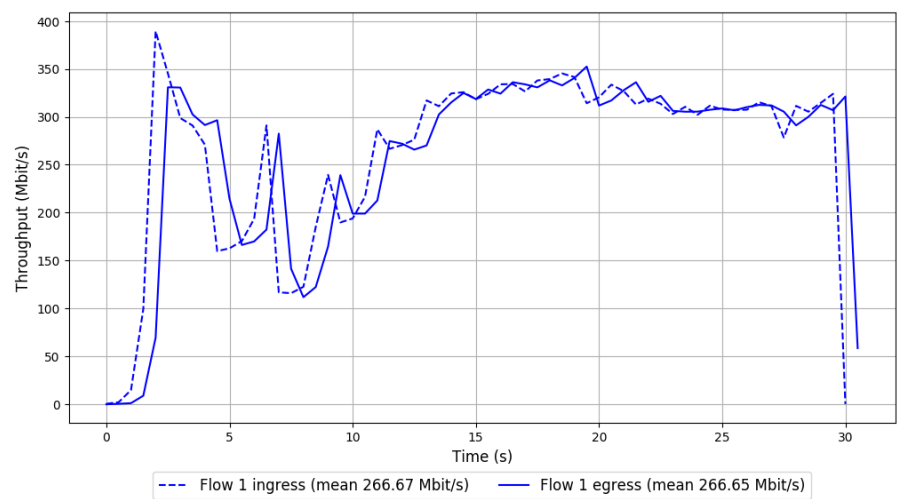


Run 3: Statistics of Copa

Start at: 2019-03-08 20:53:28
End at: 2019-03-08 20:53:58
Local clock offset: 23.65 ms
Remote clock offset: 21.482 ms

Below is generated by plot.py at 2019-03-08 22:40:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 266.65 Mbit/s
95th percentile per-packet one-way delay: 168.501 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 266.65 Mbit/s
95th percentile per-packet one-way delay: 168.501 ms
Loss rate: 0.01%

Run 3: Report of Copa — Data Link

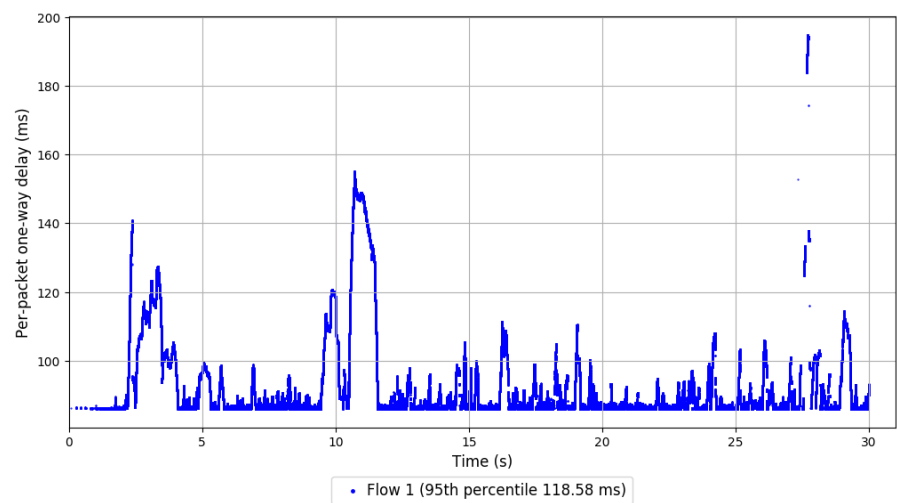
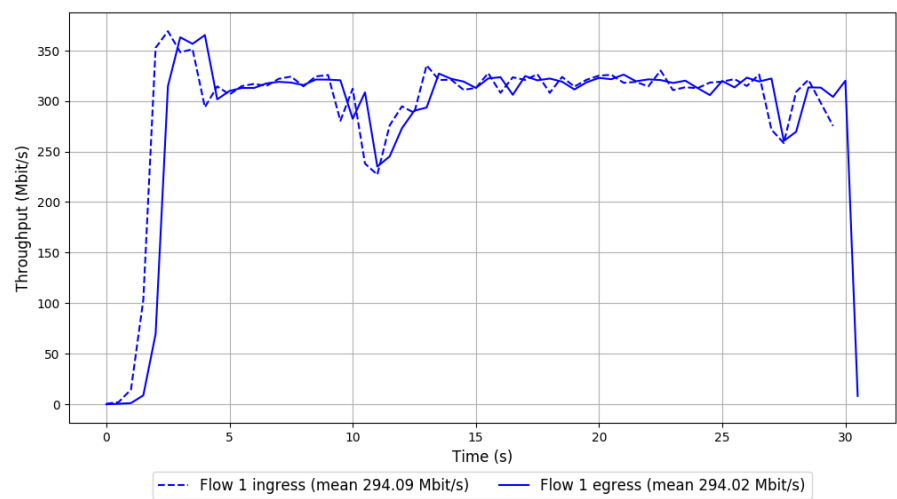


Run 4: Statistics of Copa

Start at: 2019-03-08 21:24:46
End at: 2019-03-08 21:25:16
Local clock offset: 5.829 ms
Remote clock offset: 10.714 ms

Below is generated by plot.py at 2019-03-08 22:47:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 294.02 Mbit/s
95th percentile per-packet one-way delay: 118.584 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 294.02 Mbit/s
95th percentile per-packet one-way delay: 118.584 ms
Loss rate: 0.03%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-03-08 21:56:05

End at: 2019-03-08 21:56:36

Local clock offset: 2.684 ms

Remote clock offset: 4.788 ms

Below is generated by plot.py at 2019-03-08 22:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.62 Mbit/s

95th percentile per-packet one-way delay: 104.996 ms

Loss rate: 0.00%

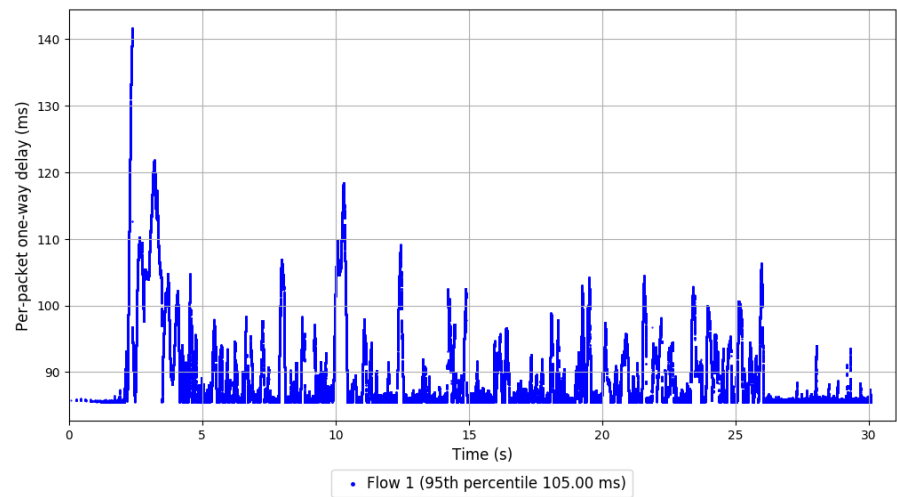
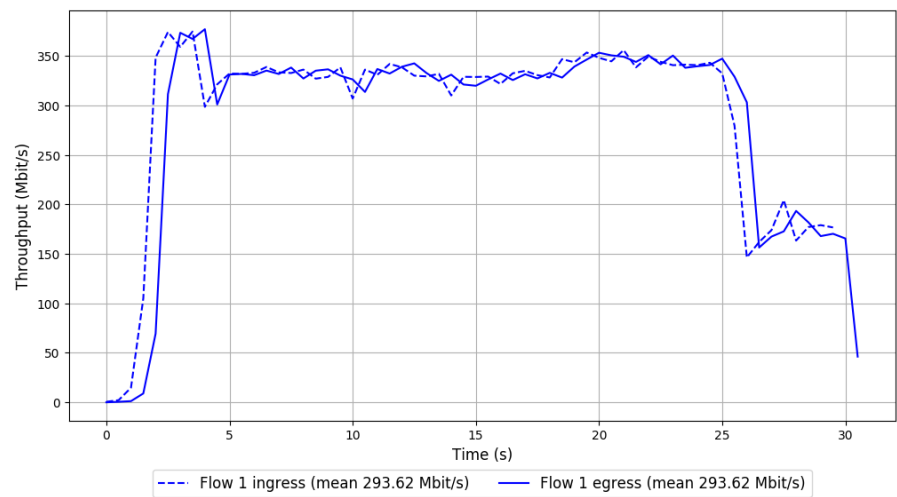
-- Flow 1:

Average throughput: 293.62 Mbit/s

95th percentile per-packet one-way delay: 104.996 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-03-08 19:43:20

End at: 2019-03-08 19:43:50

Local clock offset: 4.001 ms

Remote clock offset: 3.623 ms

Below is generated by plot.py at 2019-03-08 22:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.12 Mbit/s

95th percentile per-packet one-way delay: 129.257 ms

Loss rate: 0.00%

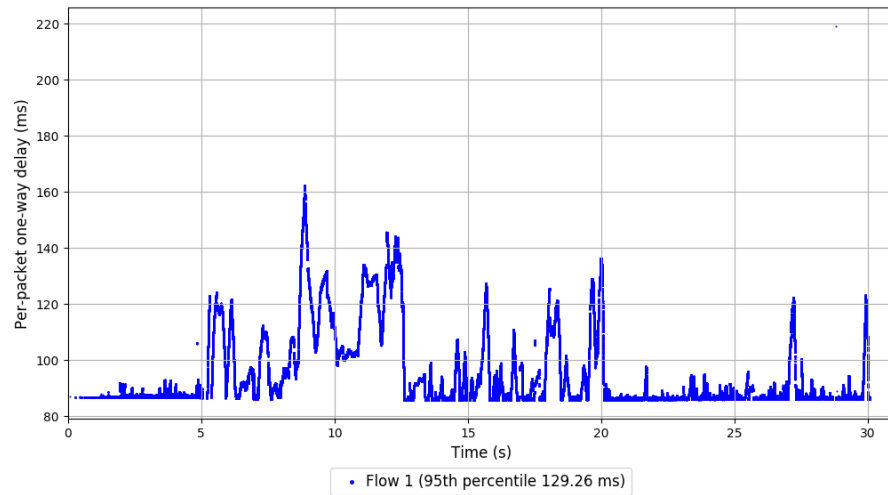
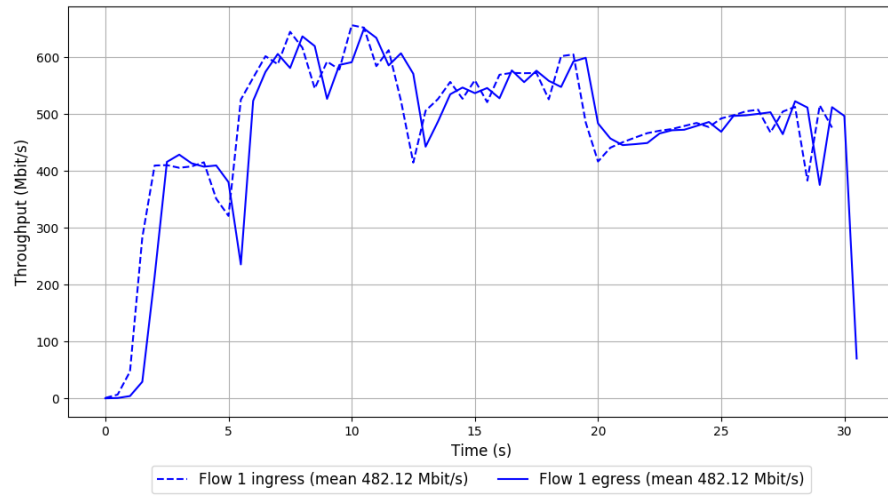
-- Flow 1:

Average throughput: 482.12 Mbit/s

95th percentile per-packet one-way delay: 129.257 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

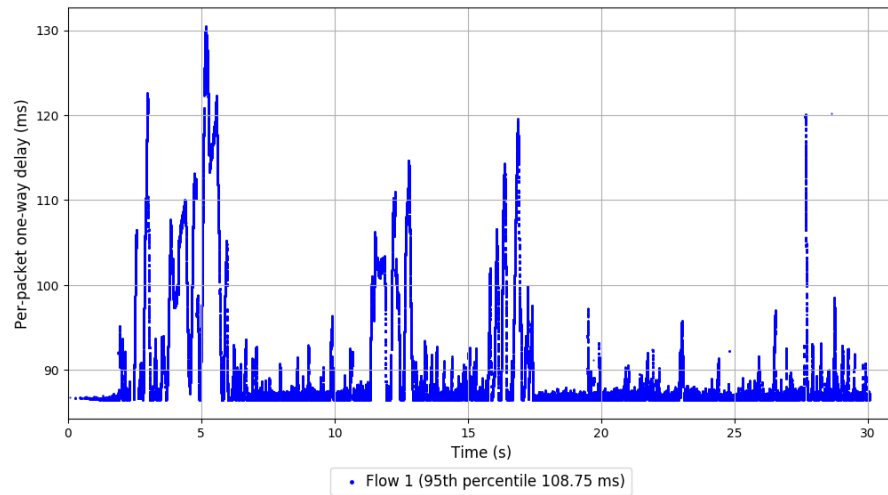
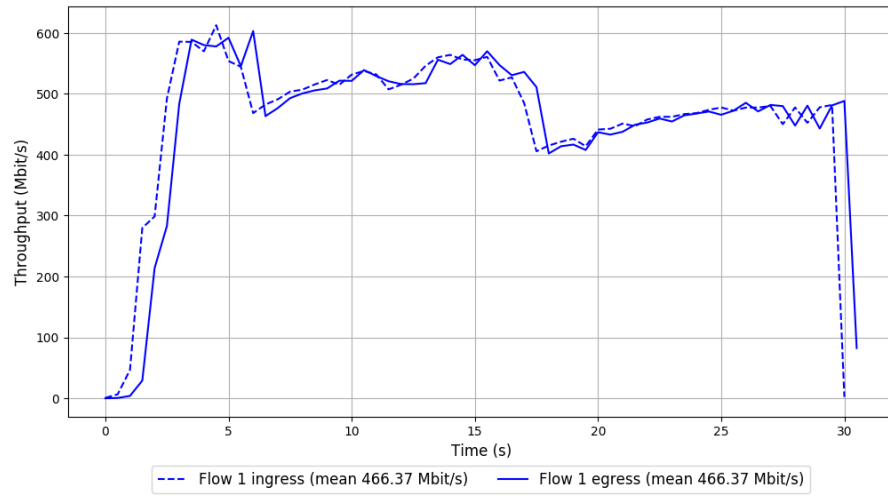


Run 2: Statistics of TCP Cubic

Start at: 2019-03-08 20:14:20
End at: 2019-03-08 20:14:50
Local clock offset: 11.619 ms
Remote clock offset: 11.411 ms

Below is generated by plot.py at 2019-03-08 22:47:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 466.37 Mbit/s
95th percentile per-packet one-way delay: 108.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 466.37 Mbit/s
95th percentile per-packet one-way delay: 108.750 ms
Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

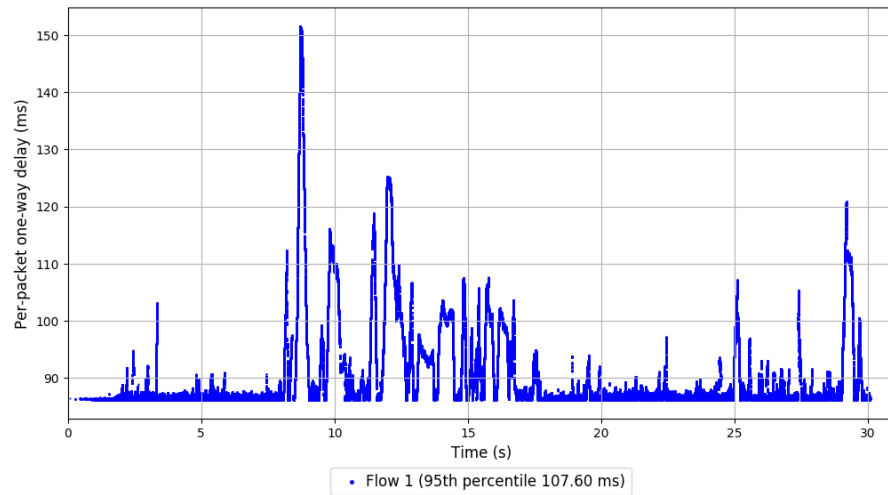
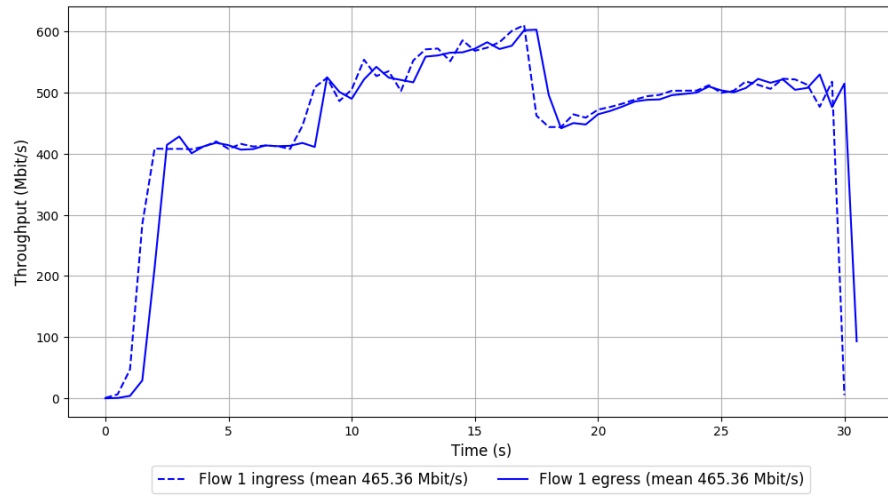


Run 3: Statistics of TCP Cubic

Start at: 2019-03-08 20:45:29
End at: 2019-03-08 20:45:59
Local clock offset: 18.883 ms
Remote clock offset: 17.926 ms

Below is generated by plot.py at 2019-03-08 22:47:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 465.36 Mbit/s
95th percentile per-packet one-way delay: 107.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 465.36 Mbit/s
95th percentile per-packet one-way delay: 107.600 ms
Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-03-08 21:16:40

End at: 2019-03-08 21:17:10

Local clock offset: 5.305 ms

Remote clock offset: 8.986 ms

Below is generated by plot.py at 2019-03-08 22:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.18 Mbit/s

95th percentile per-packet one-way delay: 112.421 ms

Loss rate: 0.00%

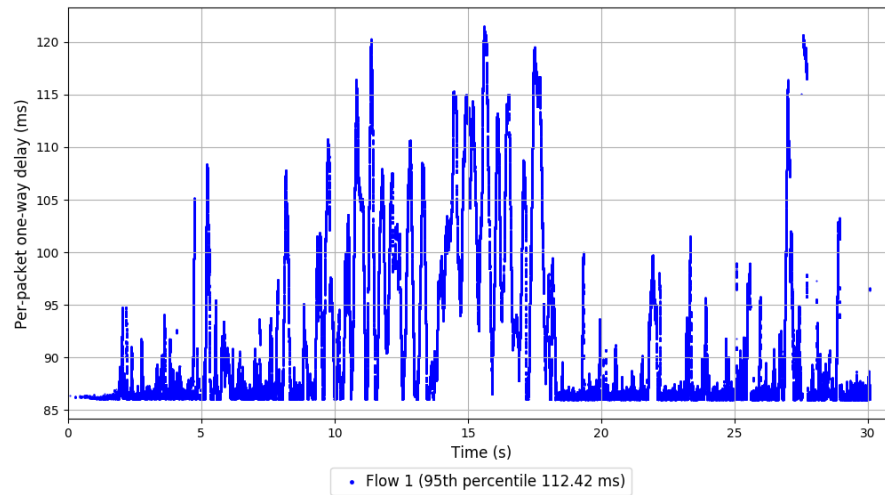
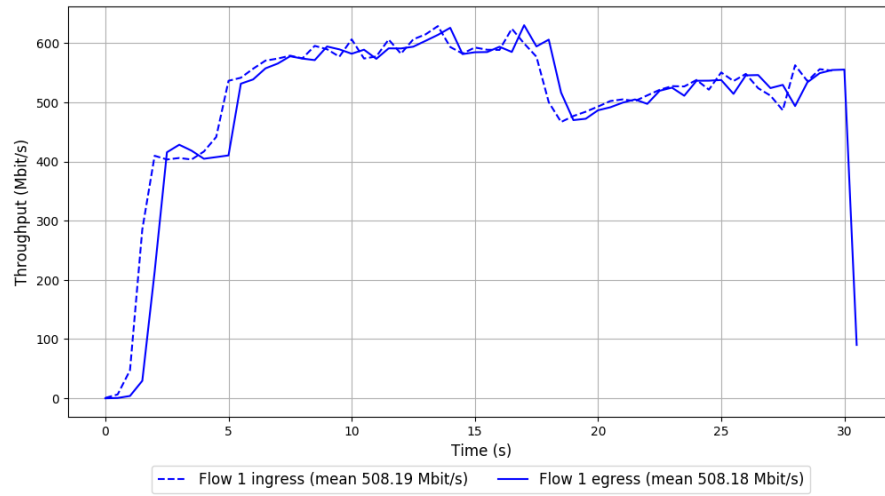
-- Flow 1:

Average throughput: 508.18 Mbit/s

95th percentile per-packet one-way delay: 112.421 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-03-08 21:48:00

End at: 2019-03-08 21:48:31

Local clock offset: 1.772 ms

Remote clock offset: 4.166 ms

Below is generated by plot.py at 2019-03-08 22:47:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.26 Mbit/s

95th percentile per-packet one-way delay: 125.996 ms

Loss rate: 0.00%

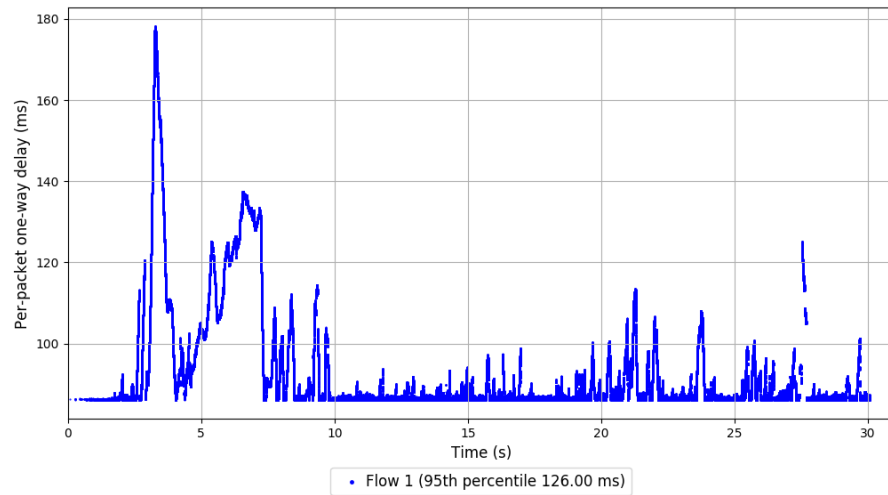
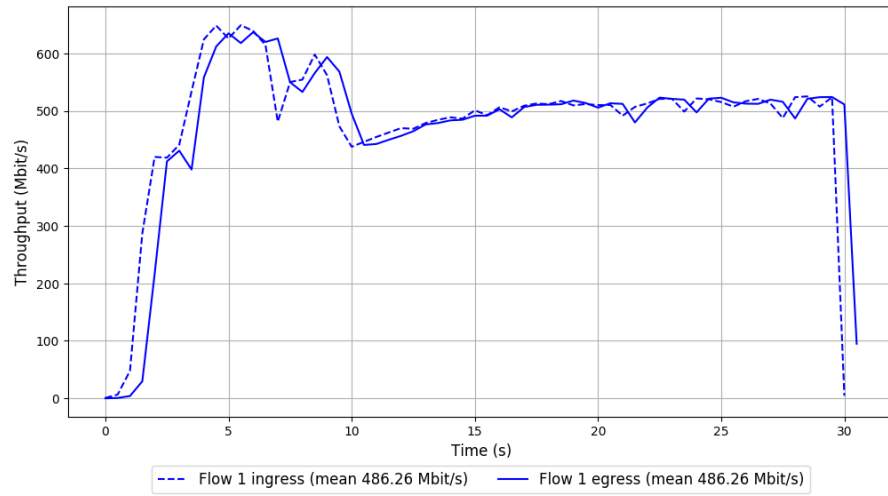
-- Flow 1:

Average throughput: 486.26 Mbit/s

95th percentile per-packet one-way delay: 125.996 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-03-08 19:44:57

End at: 2019-03-08 19:45:27

Local clock offset: 5.598 ms

Remote clock offset: 5.278 ms

Below is generated by plot.py at 2019-03-08 22:54:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 753.57 Mbit/s

95th percentile per-packet one-way delay: 143.254 ms

Loss rate: 0.99%

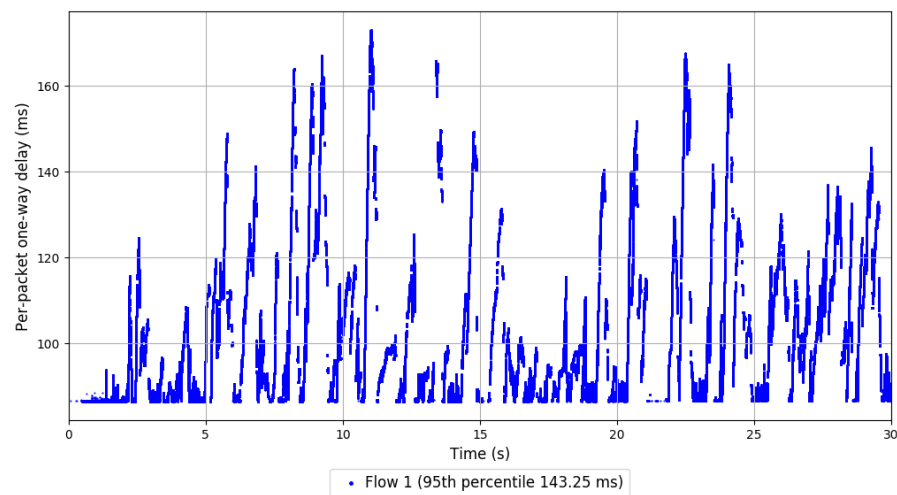
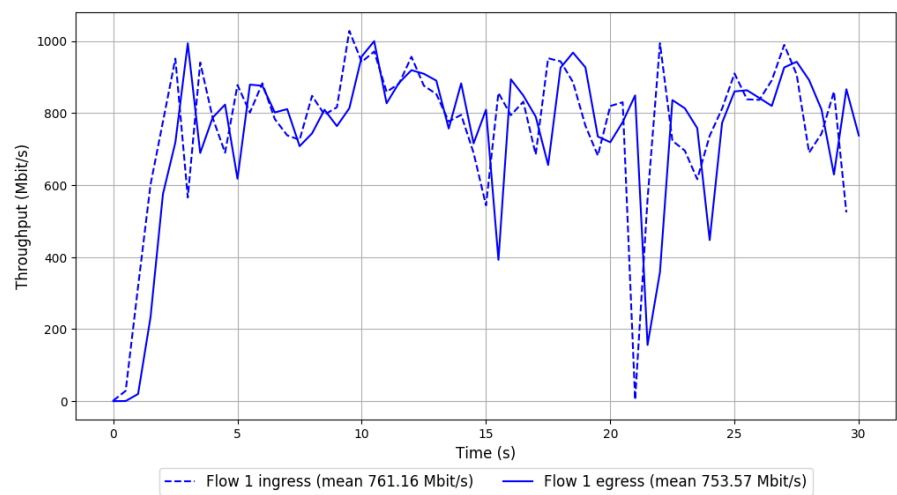
-- Flow 1:

Average throughput: 753.57 Mbit/s

95th percentile per-packet one-way delay: 143.254 ms

Loss rate: 0.99%

Run 1: Report of FillP — Data Link

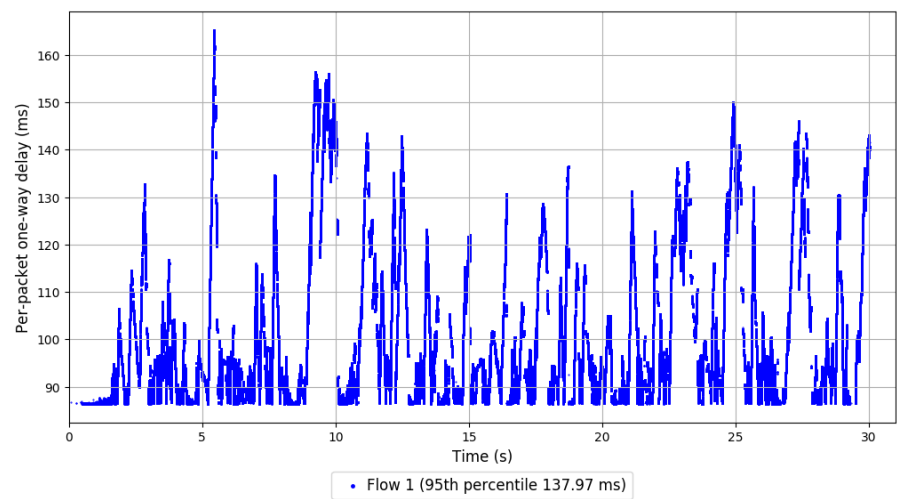
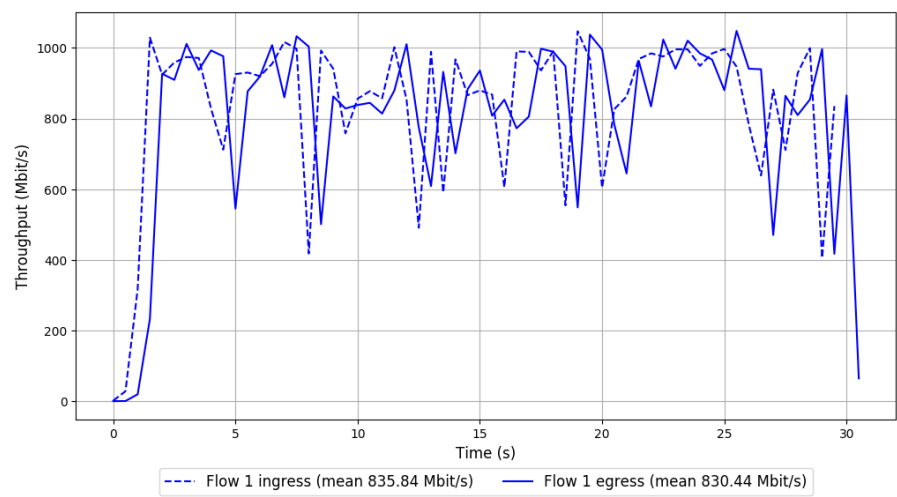


Run 2: Statistics of FillP

Start at: 2019-03-08 20:15:53
End at: 2019-03-08 20:16:23
Local clock offset: 12.864 ms
Remote clock offset: 12.522 ms

Below is generated by plot.py at 2019-03-08 23:04:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 830.44 Mbit/s
95th percentile per-packet one-way delay: 137.973 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 830.44 Mbit/s
95th percentile per-packet one-way delay: 137.973 ms
Loss rate: 0.64%

Run 2: Report of FillP — Data Link

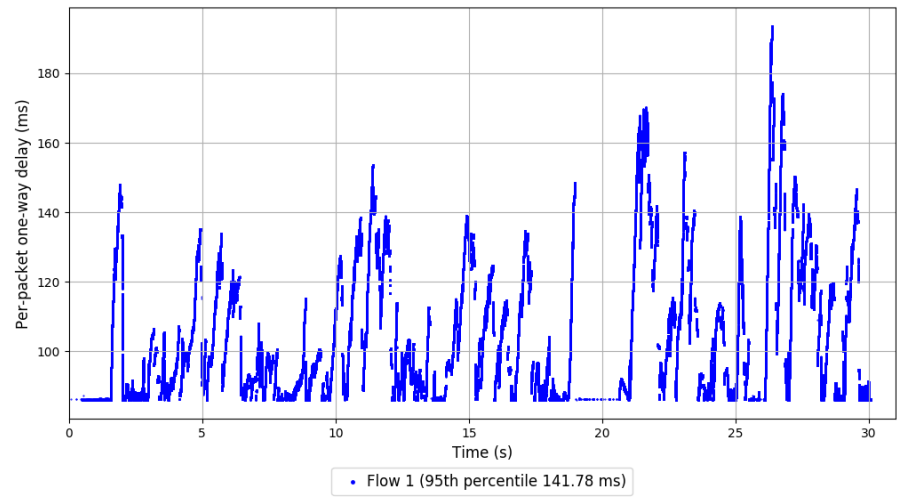
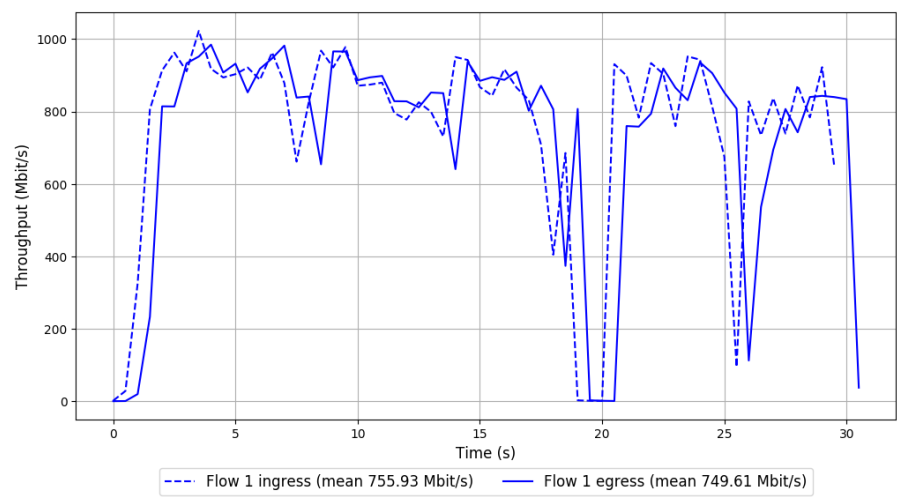


Run 3: Statistics of FillP

Start at: 2019-03-08 20:47:03
End at: 2019-03-08 20:47:33
Local clock offset: 19.666 ms
Remote clock offset: 18.696 ms

Below is generated by plot.py at 2019-03-08 23:04:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 749.61 Mbit/s
95th percentile per-packet one-way delay: 141.784 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 749.61 Mbit/s
95th percentile per-packet one-way delay: 141.784 ms
Loss rate: 0.84%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-03-08 21:18:15

End at: 2019-03-08 21:18:45

Local clock offset: 5.533 ms

Remote clock offset: 9.23 ms

Below is generated by plot.py at 2019-03-08 23:05:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 833.33 Mbit/s

95th percentile per-packet one-way delay: 151.089 ms

Loss rate: 1.81%

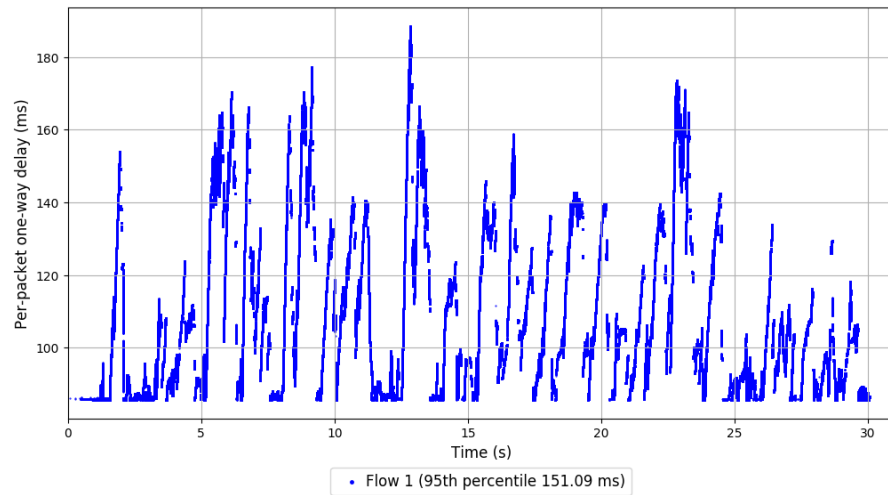
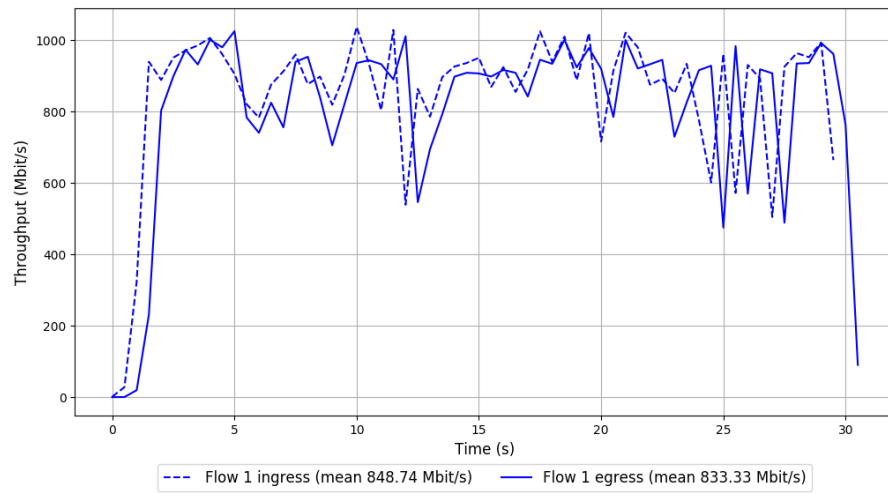
-- Flow 1:

Average throughput: 833.33 Mbit/s

95th percentile per-packet one-way delay: 151.089 ms

Loss rate: 1.81%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-03-08 21:49:35

End at: 2019-03-08 21:50:05

Local clock offset: 2.41 ms

Remote clock offset: 4.267 ms

Below is generated by plot.py at 2019-03-08 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.26 Mbit/s

95th percentile per-packet one-way delay: 101.933 ms

Loss rate: 0.01%

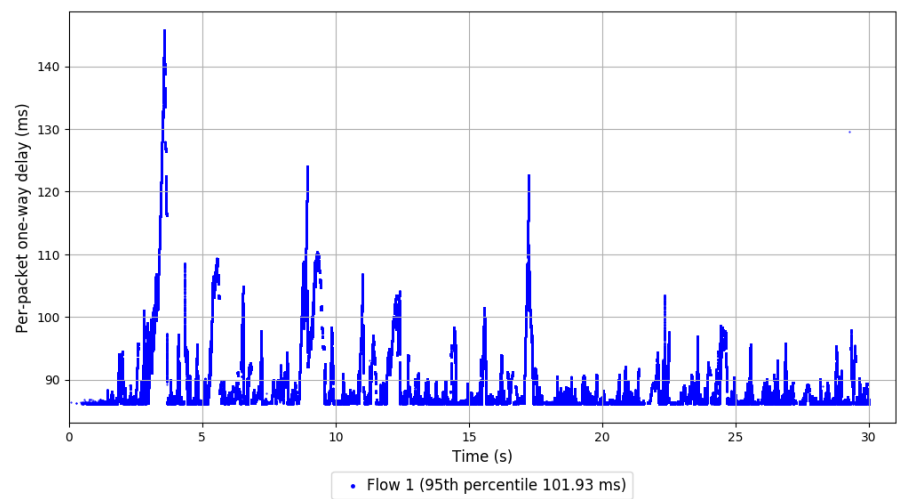
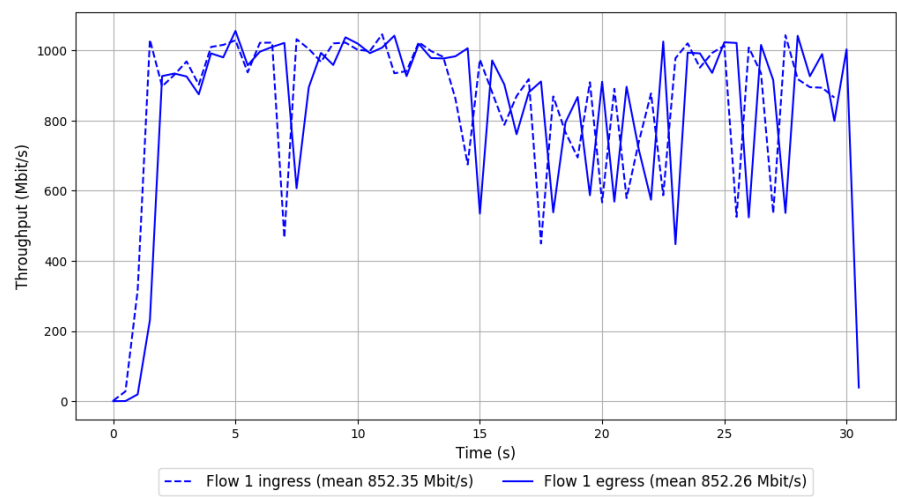
-- Flow 1:

Average throughput: 852.26 Mbit/s

95th percentile per-packet one-way delay: 101.933 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-08 20:06:43

End at: 2019-03-08 20:07:13

Local clock offset: 7.537 ms

Remote clock offset: 7.443 ms

Below is generated by plot.py at 2019-03-08 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 796.40 Mbit/s

95th percentile per-packet one-way delay: 141.247 ms

Loss rate: 0.44%

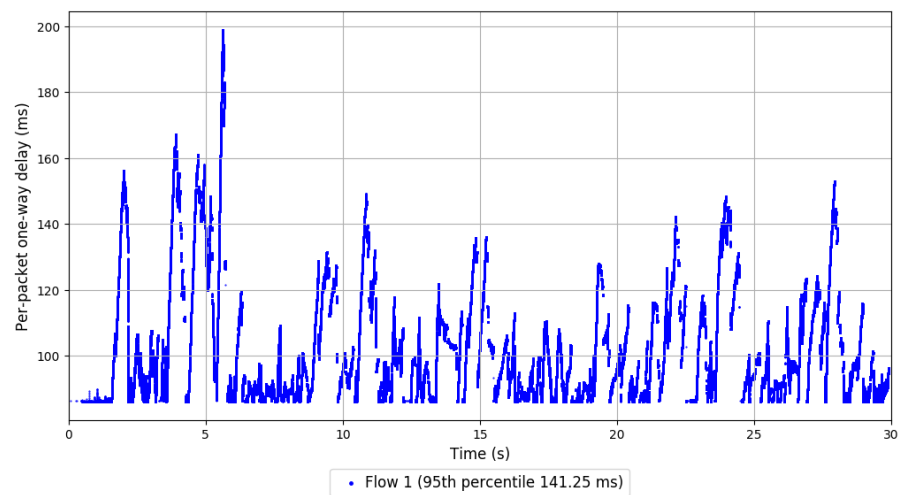
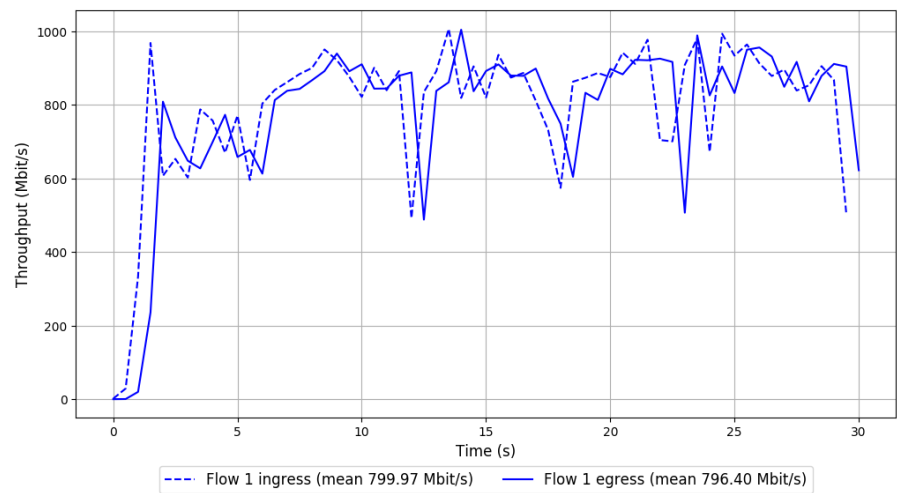
-- Flow 1:

Average throughput: 796.40 Mbit/s

95th percentile per-packet one-way delay: 141.247 ms

Loss rate: 0.44%

Run 1: Report of FillP-Sheep — Data Link

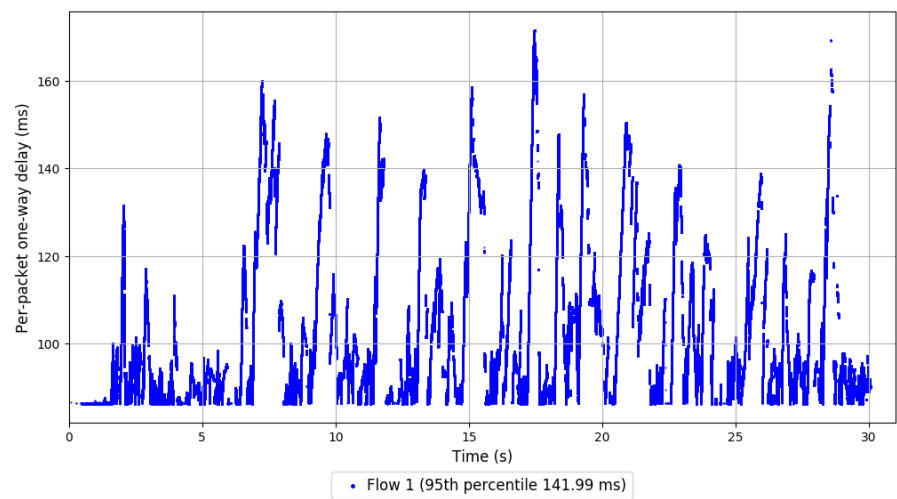
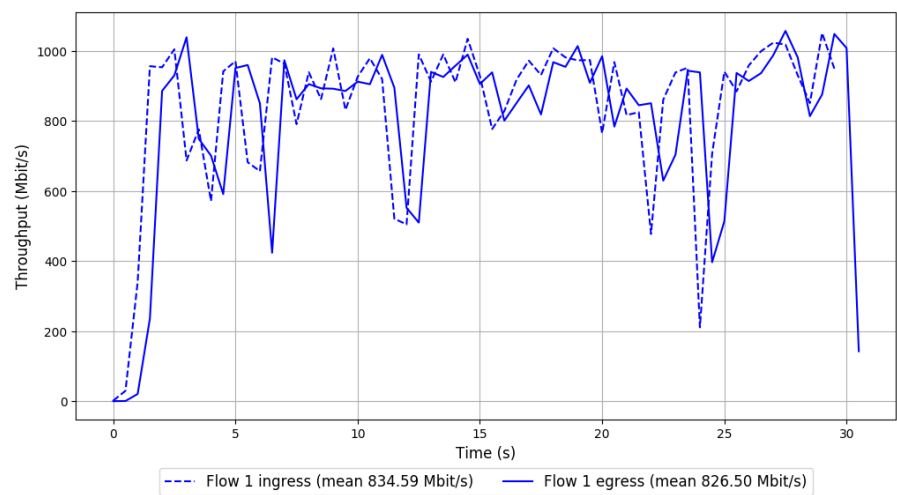


Run 2: Statistics of FillP-Sheep

Start at: 2019-03-08 20:37:46
End at: 2019-03-08 20:38:16
Local clock offset: 14.146 ms
Remote clock offset: 13.775 ms

Below is generated by plot.py at 2019-03-08 23:05:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 826.50 Mbit/s
95th percentile per-packet one-way delay: 141.986 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 826.50 Mbit/s
95th percentile per-packet one-way delay: 141.986 ms
Loss rate: 0.97%

Run 2: Report of FillP-Sheep — Data Link

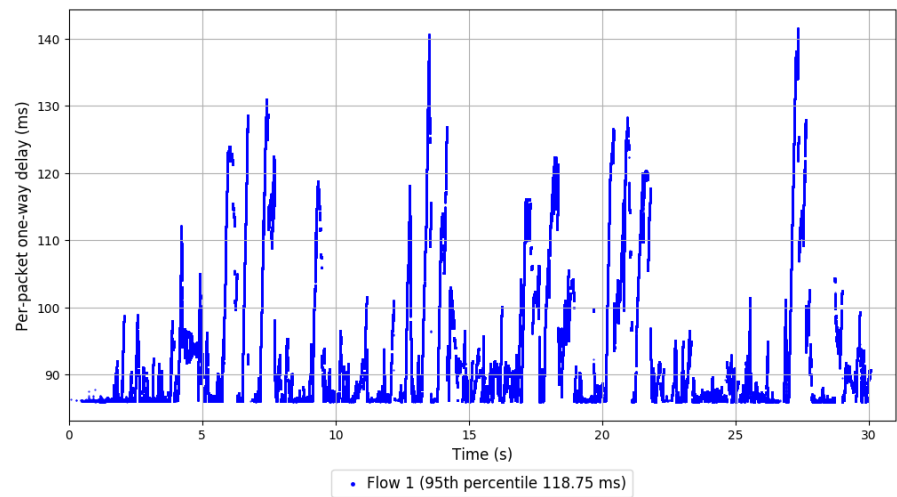
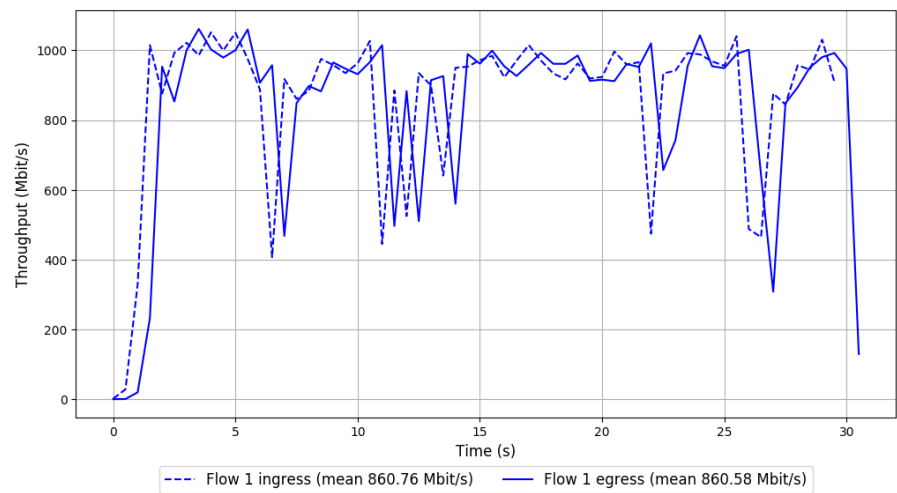


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-08 21:09:00
End at: 2019-03-08 21:09:30
Local clock offset: 6.138 ms
Remote clock offset: 8.521 ms

Below is generated by plot.py at 2019-03-08 23:06:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 860.58 Mbit/s
95th percentile per-packet one-way delay: 118.746 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 860.58 Mbit/s
95th percentile per-packet one-way delay: 118.746 ms
Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-08 21:40:18

End at: 2019-03-08 21:40:48

Local clock offset: 2.43 ms

Remote clock offset: 4.428 ms

Below is generated by plot.py at 2019-03-08 23:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 829.40 Mbit/s

95th percentile per-packet one-way delay: 136.911 ms

Loss rate: 1.05%

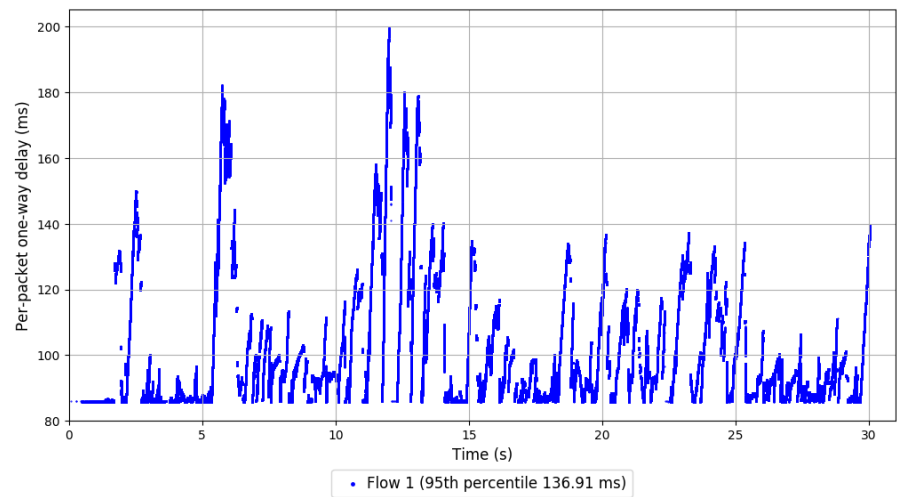
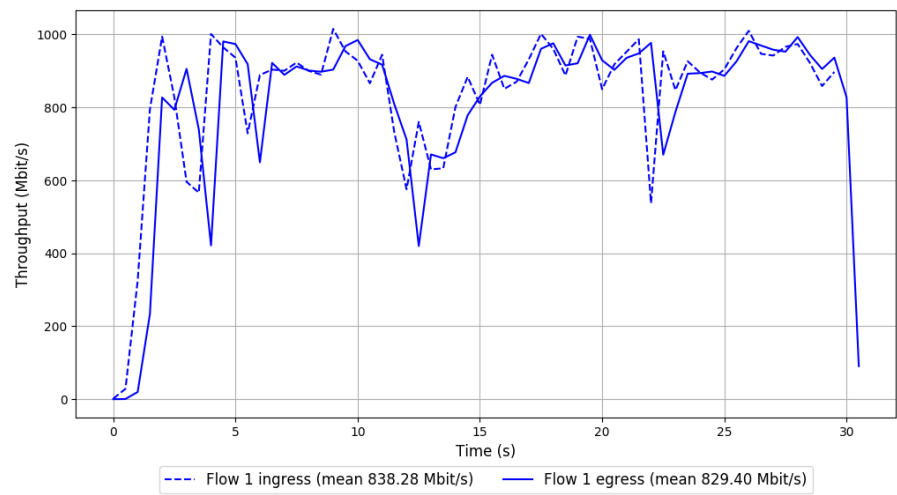
-- Flow 1:

Average throughput: 829.40 Mbit/s

95th percentile per-packet one-way delay: 136.911 ms

Loss rate: 1.05%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-03-08 22:11:27

End at: 2019-03-08 22:11:57

Local clock offset: 1.134 ms

Remote clock offset: 1.892 ms

Below is generated by plot.py at 2019-03-08 23:21:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 822.14 Mbit/s

95th percentile per-packet one-way delay: 155.861 ms

Loss rate: 1.65%

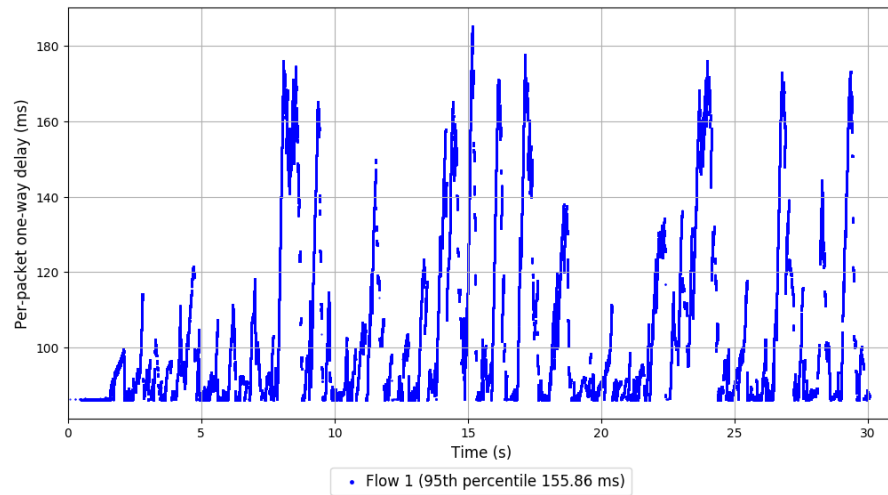
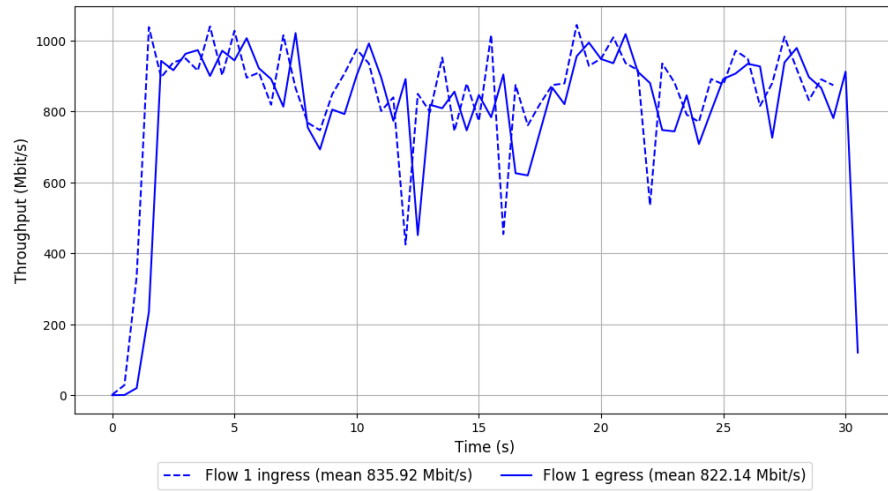
-- Flow 1:

Average throughput: 822.14 Mbit/s

95th percentile per-packet one-way delay: 155.861 ms

Loss rate: 1.65%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-08 19:49:47

End at: 2019-03-08 19:50:17

Local clock offset: 4.605 ms

Remote clock offset: 3.318 ms

Below is generated by plot.py at 2019-03-08 23:21:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.18 Mbit/s

95th percentile per-packet one-way delay: 86.277 ms

Loss rate: 0.00%

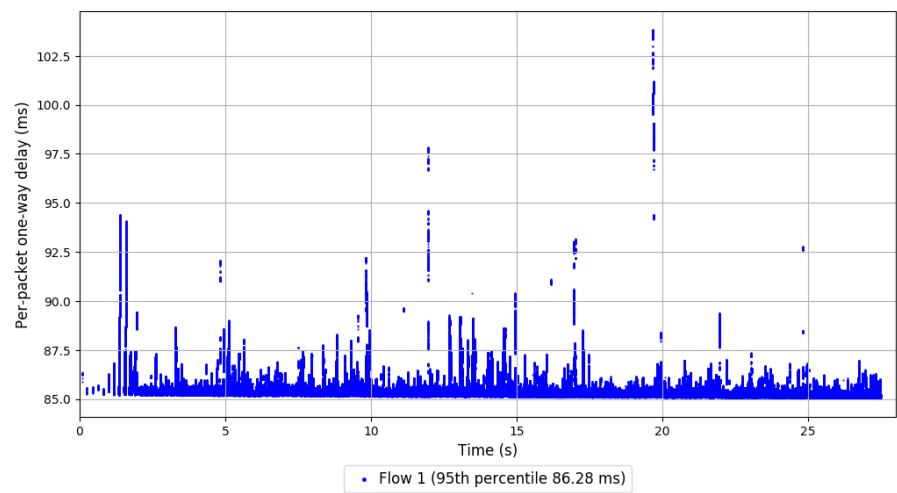
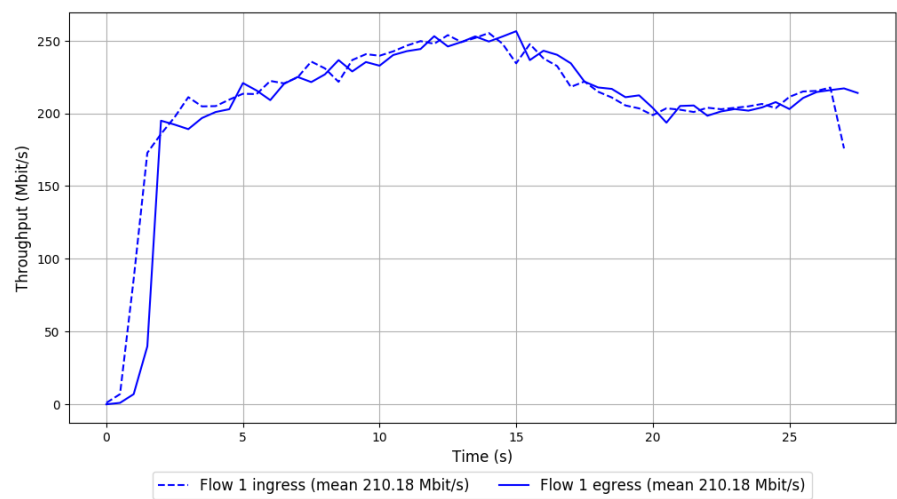
-- Flow 1:

Average throughput: 210.18 Mbit/s

95th percentile per-packet one-way delay: 86.277 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link

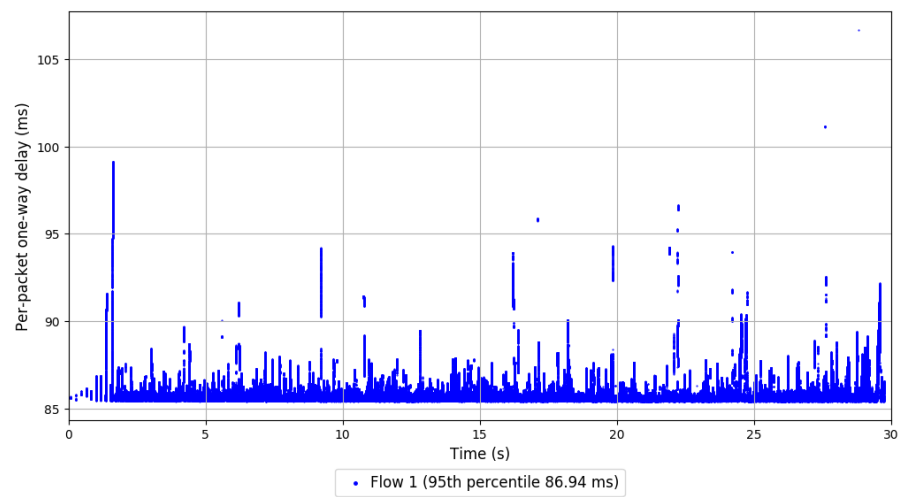
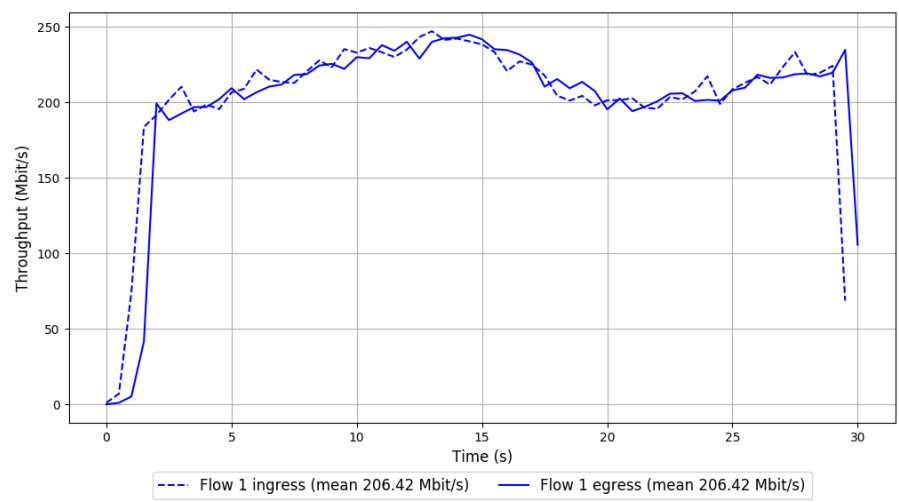


Run 2: Statistics of Indigo

Start at: 2019-03-08 20:20:52
End at: 2019-03-08 20:21:22
Local clock offset: 14.585 ms
Remote clock offset: 13.237 ms

Below is generated by plot.py at 2019-03-08 23:21:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.42 Mbit/s
95th percentile per-packet one-way delay: 86.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.42 Mbit/s
95th percentile per-packet one-way delay: 86.945 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

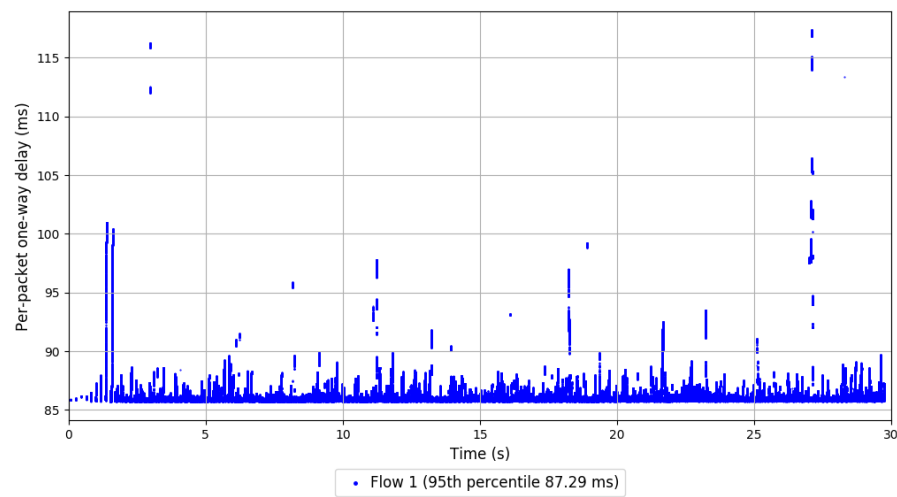
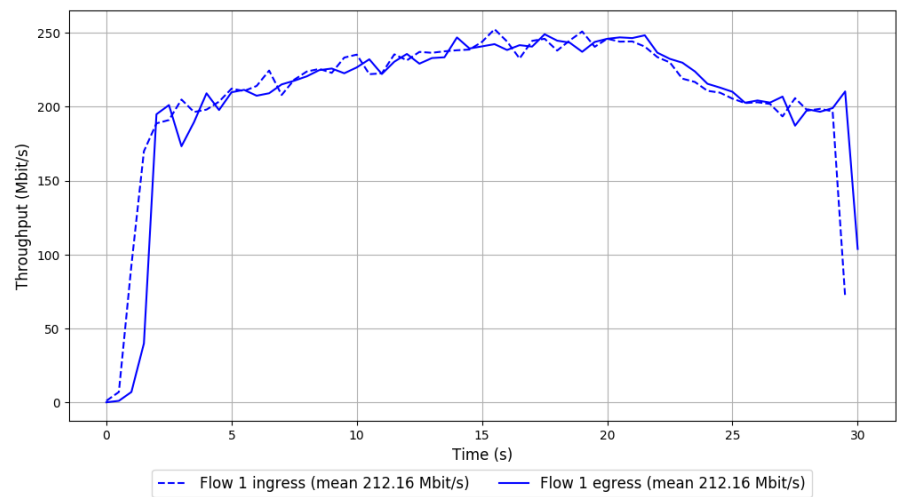


Run 3: Statistics of Indigo

Start at: 2019-03-08 20:51:58
End at: 2019-03-08 20:52:28
Local clock offset: 23.052 ms
Remote clock offset: 21.659 ms

Below is generated by plot.py at 2019-03-08 23:21:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.16 Mbit/s
95th percentile per-packet one-way delay: 87.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.16 Mbit/s
95th percentile per-packet one-way delay: 87.290 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

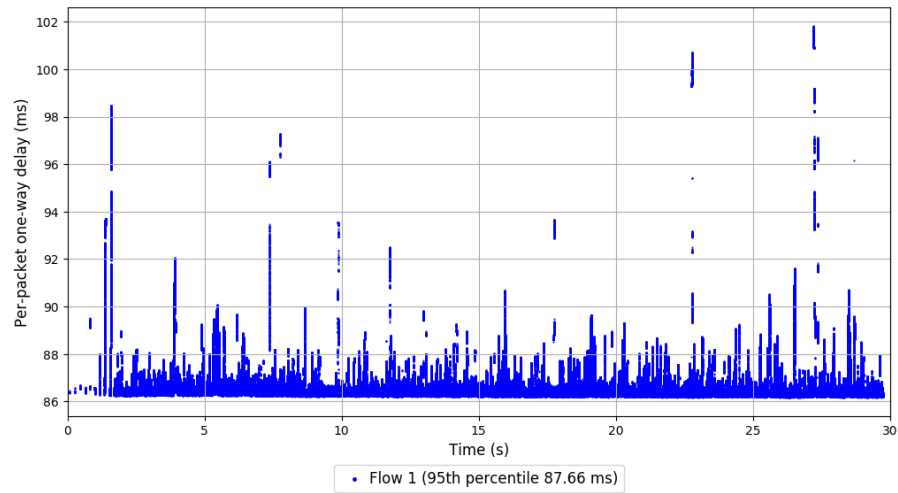
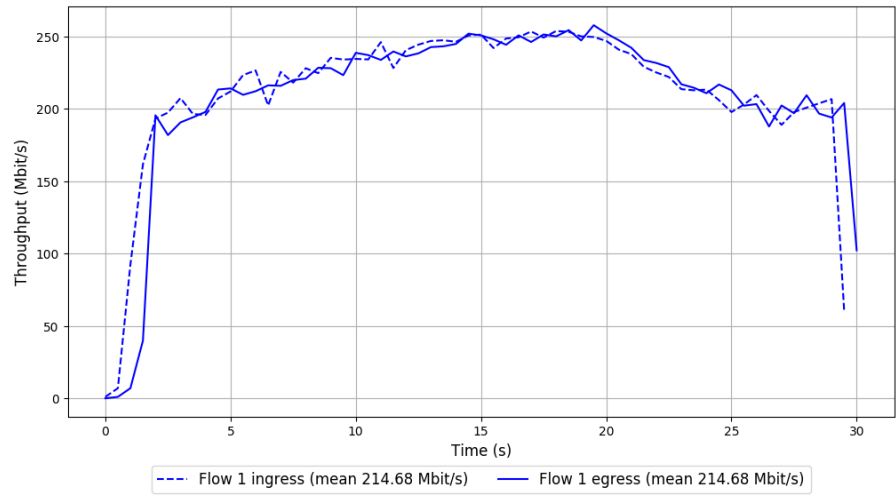


Run 4: Statistics of Indigo

Start at: 2019-03-08 21:23:17
End at: 2019-03-08 21:23:47
Local clock offset: 5.228 ms
Remote clock offset: 10.309 ms

Below is generated by plot.py at 2019-03-08 23:21:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.68 Mbit/s
95th percentile per-packet one-way delay: 87.662 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.68 Mbit/s
95th percentile per-packet one-way delay: 87.662 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-03-08 21:54:36

End at: 2019-03-08 21:55:06

Local clock offset: 2.421 ms

Remote clock offset: 4.686 ms

Below is generated by plot.py at 2019-03-08 23:21:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.62 Mbit/s

95th percentile per-packet one-way delay: 87.193 ms

Loss rate: 0.00%

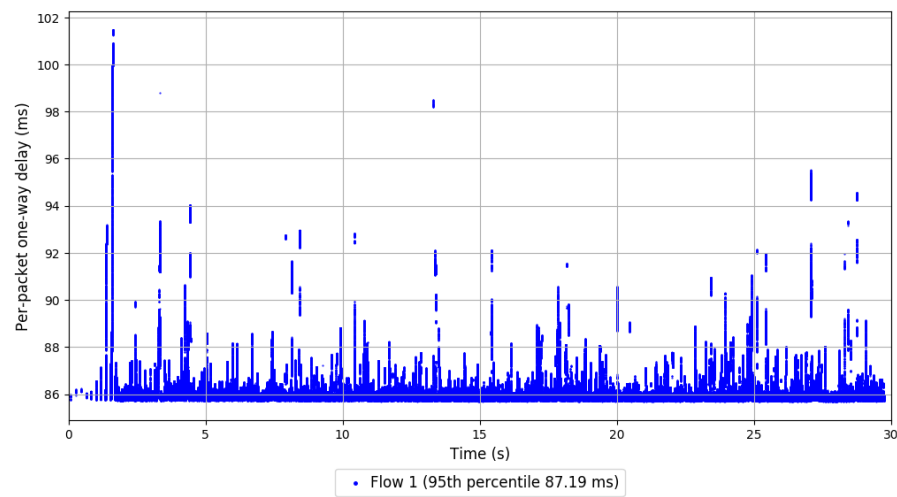
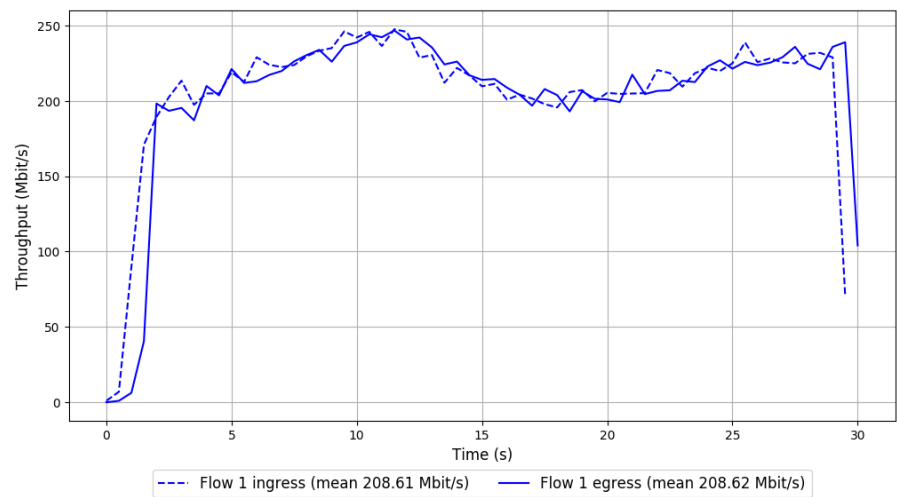
-- Flow 1:

Average throughput: 208.62 Mbit/s

95th percentile per-packet one-way delay: 87.193 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-08 19:54:03

End at: 2019-03-08 19:54:33

Local clock offset: 6.423 ms

Remote clock offset: 5.508 ms

Below is generated by plot.py at 2019-03-08 23:21:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 606.57 Mbit/s

95th percentile per-packet one-way delay: 114.267 ms

Loss rate: 0.05%

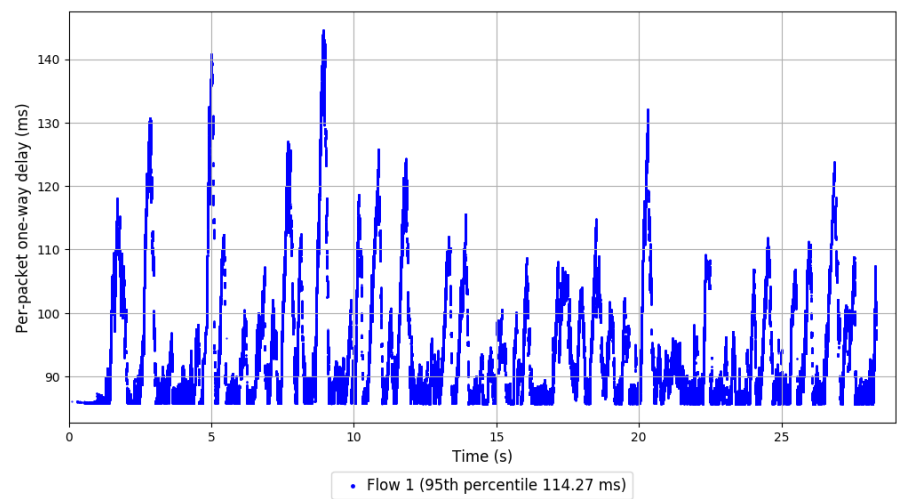
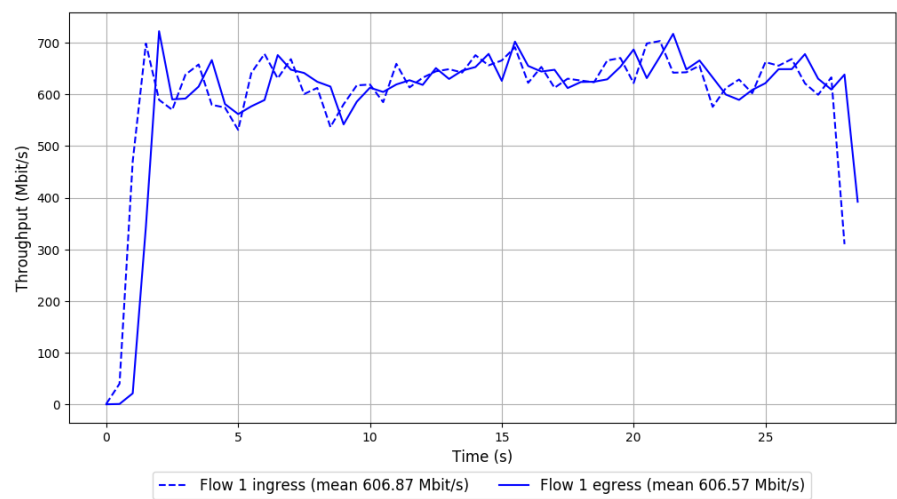
-- Flow 1:

Average throughput: 606.57 Mbit/s

95th percentile per-packet one-way delay: 114.267 ms

Loss rate: 0.05%

Run 1: Report of Indigo-MusesC3 — Data Link

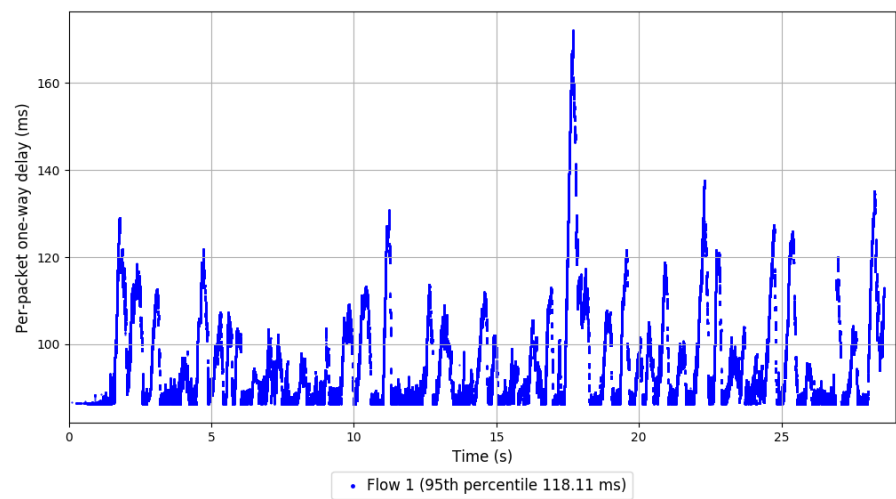
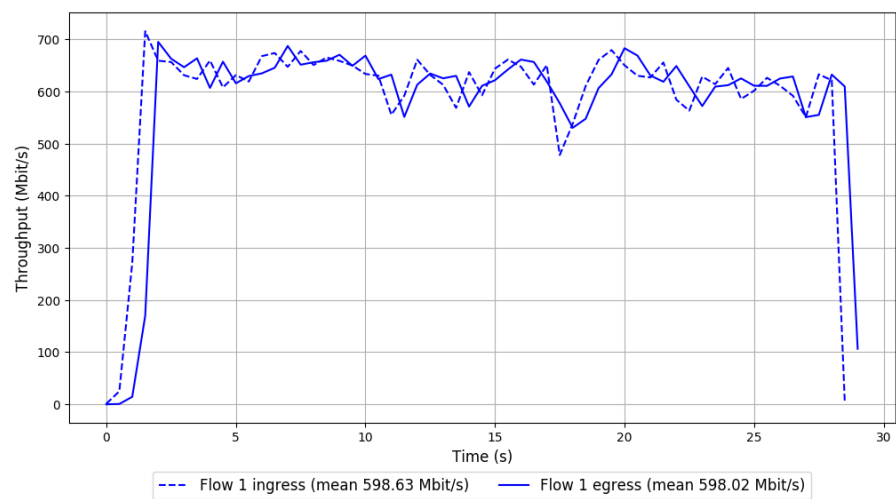


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-08 20:25:14
End at: 2019-03-08 20:25:44
Local clock offset: 11.909 ms
Remote clock offset: 11.211 ms

Below is generated by plot.py at 2019-03-08 23:22:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 598.02 Mbit/s
95th percentile per-packet one-way delay: 118.107 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 598.02 Mbit/s
95th percentile per-packet one-way delay: 118.107 ms
Loss rate: 0.10%

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-08 20:56:15

End at: 2019-03-08 20:56:45

Local clock offset: 17.796 ms

Remote clock offset: 16.46 ms

Below is generated by plot.py at 2019-03-08 23:22:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.16 Mbit/s

95th percentile per-packet one-way delay: 111.257 ms

Loss rate: 0.01%

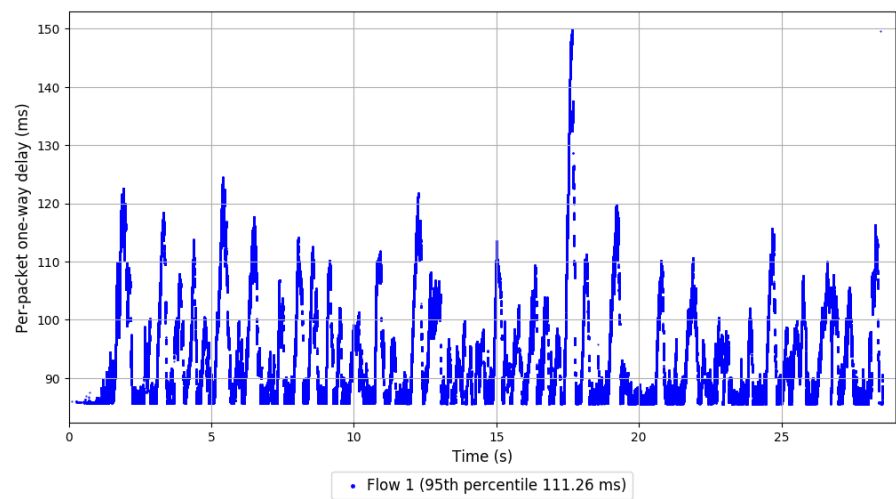
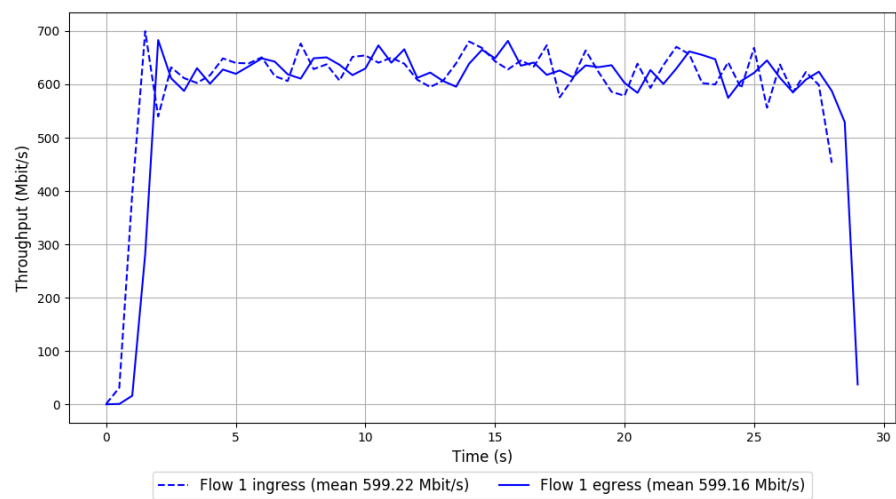
-- Flow 1:

Average throughput: 599.16 Mbit/s

95th percentile per-packet one-way delay: 111.257 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link

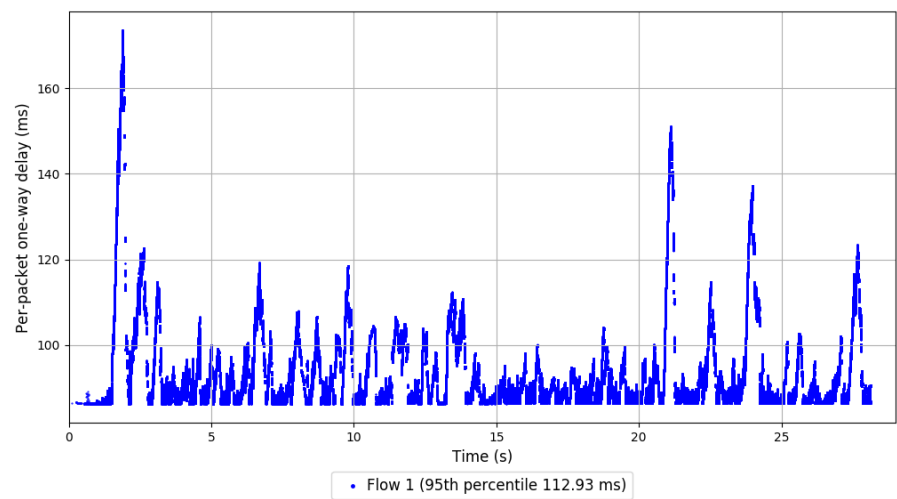
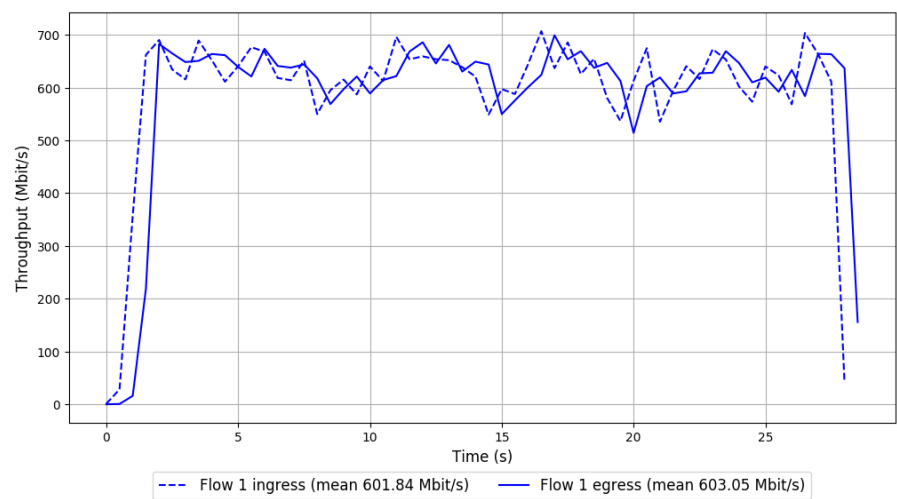


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-08 21:27:39
End at: 2019-03-08 21:28:09
Local clock offset: 5.634 ms
Remote clock offset: 10.641 ms

Below is generated by plot.py at 2019-03-08 23:22:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 603.05 Mbit/s
95th percentile per-packet one-way delay: 112.932 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 603.05 Mbit/s
95th percentile per-packet one-way delay: 112.932 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-08 21:58:56

End at: 2019-03-08 21:59:26

Local clock offset: 2.407 ms

Remote clock offset: 5.148 ms

Below is generated by plot.py at 2019-03-08 23:23:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 596.39 Mbit/s

95th percentile per-packet one-way delay: 120.084 ms

Loss rate: 0.07%

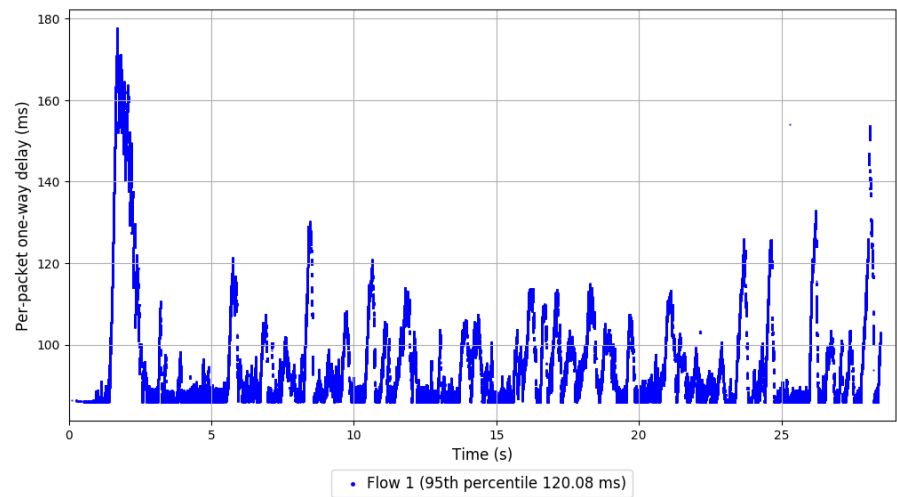
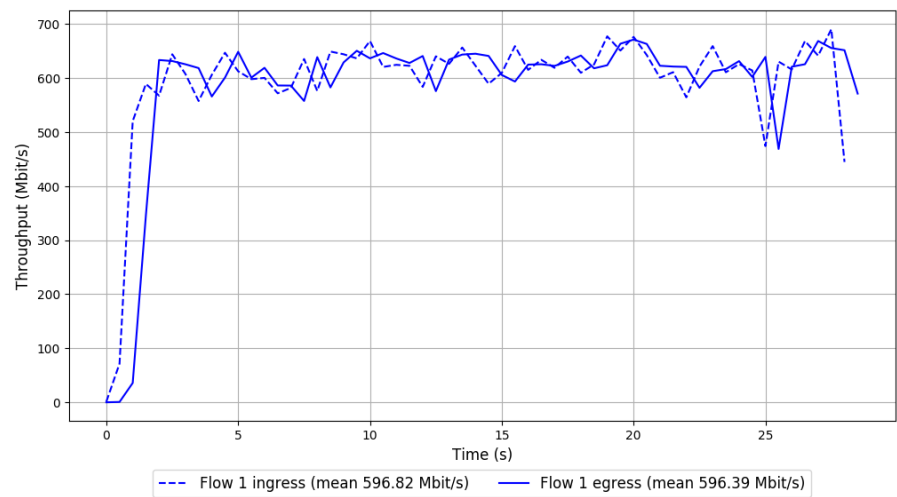
-- Flow 1:

Average throughput: 596.39 Mbit/s

95th percentile per-packet one-way delay: 120.084 ms

Loss rate: 0.07%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-08 20:03:53

End at: 2019-03-08 20:04:23

Local clock offset: 8.906 ms

Remote clock offset: 7.926 ms

Below is generated by plot.py at 2019-03-08 23:23:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 613.08 Mbit/s

95th percentile per-packet one-way delay: 132.618 ms

Loss rate: 0.00%

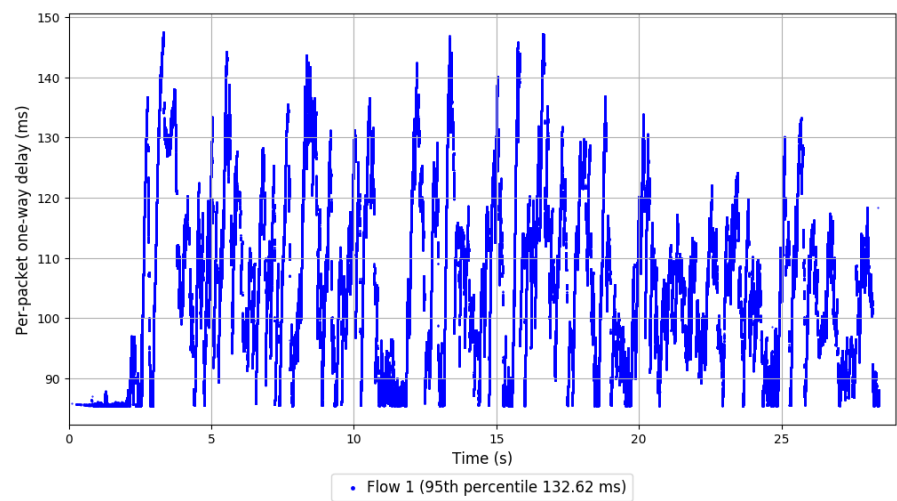
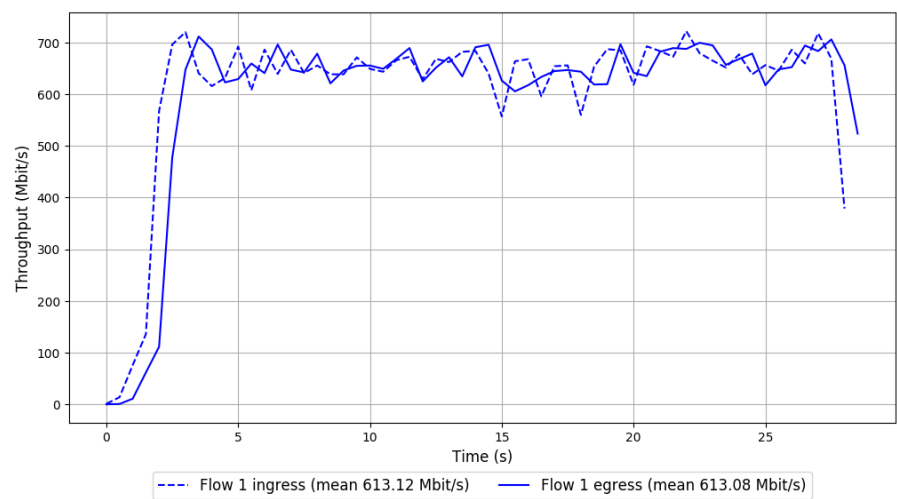
-- Flow 1:

Average throughput: 613.08 Mbit/s

95th percentile per-packet one-way delay: 132.618 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link

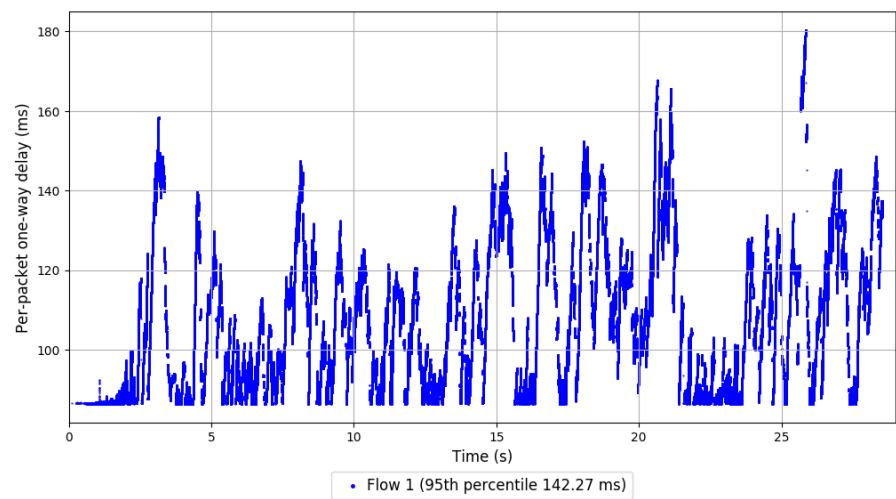
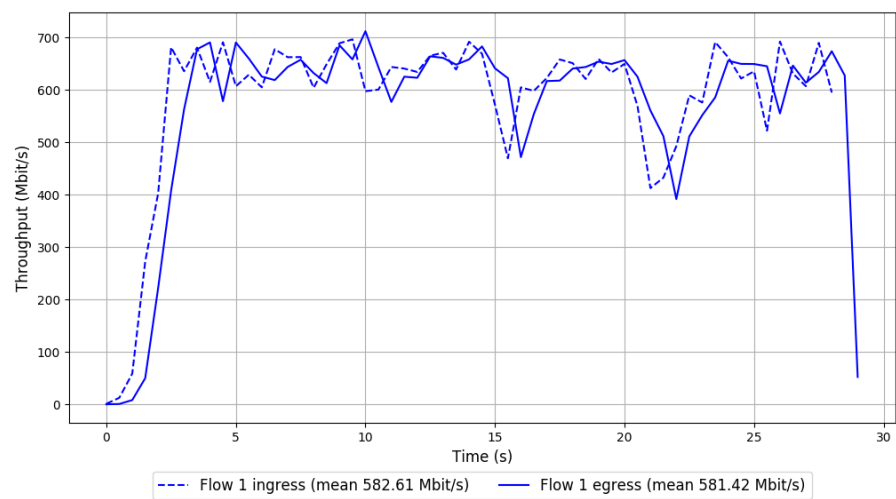


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-08 20:34:57
End at: 2019-03-08 20:35:27
Local clock offset: 12.8 ms
Remote clock offset: 12.638 ms

Below is generated by plot.py at 2019-03-08 23:26:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 581.42 Mbit/s
95th percentile per-packet one-way delay: 142.268 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 581.42 Mbit/s
95th percentile per-packet one-way delay: 142.268 ms
Loss rate: 0.18%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-08 21:06:11

End at: 2019-03-08 21:06:41

Local clock offset: 7.208 ms

Remote clock offset: 8.963 ms

Below is generated by plot.py at 2019-03-08 23:27:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.81 Mbit/s

95th percentile per-packet one-way delay: 175.717 ms

Loss rate: 0.19%

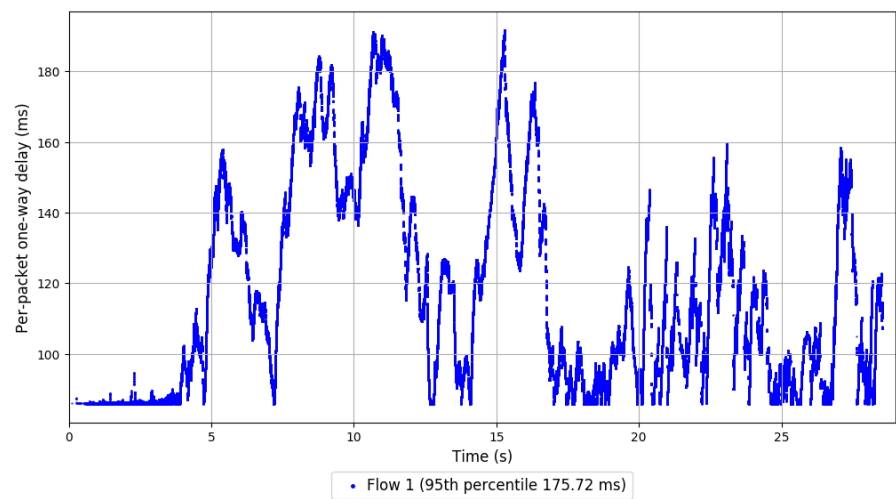
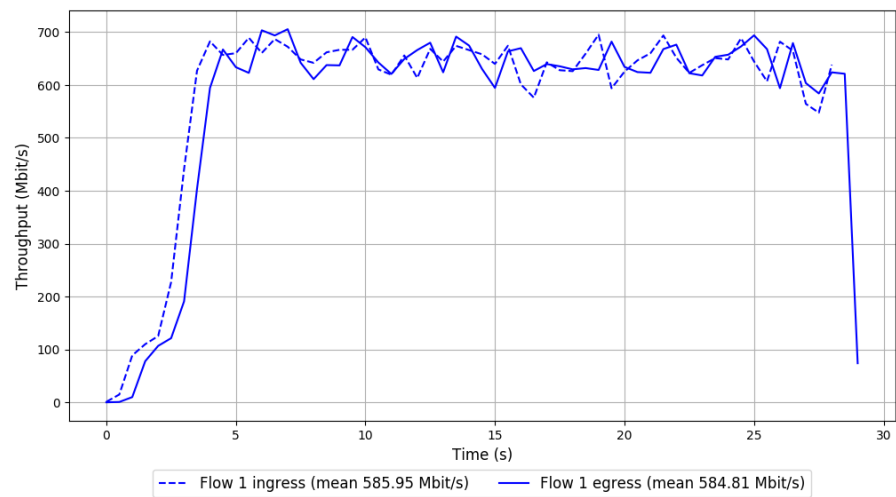
-- Flow 1:

Average throughput: 584.81 Mbit/s

95th percentile per-packet one-way delay: 175.717 ms

Loss rate: 0.19%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-08 21:37:29

End at: 2019-03-08 21:37:59

Local clock offset: 2.538 ms

Remote clock offset: 4.923 ms

Below is generated by plot.py at 2019-03-08 23:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.35 Mbit/s

95th percentile per-packet one-way delay: 138.684 ms

Loss rate: 0.16%

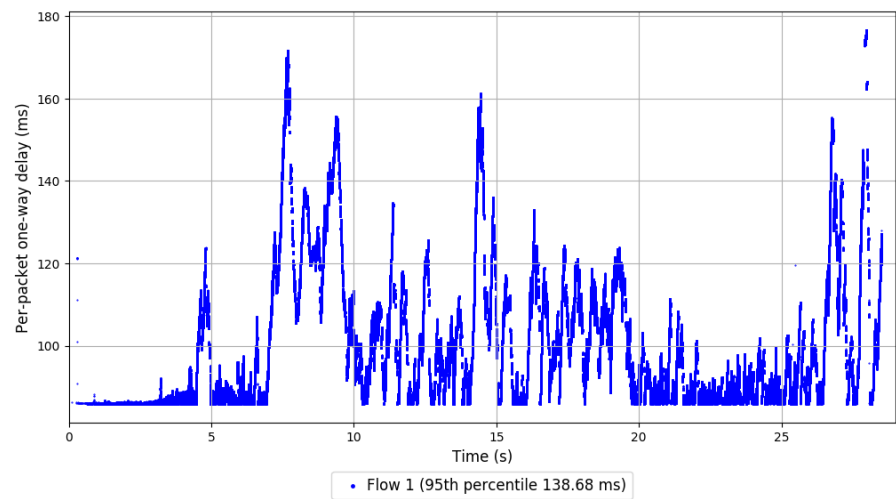
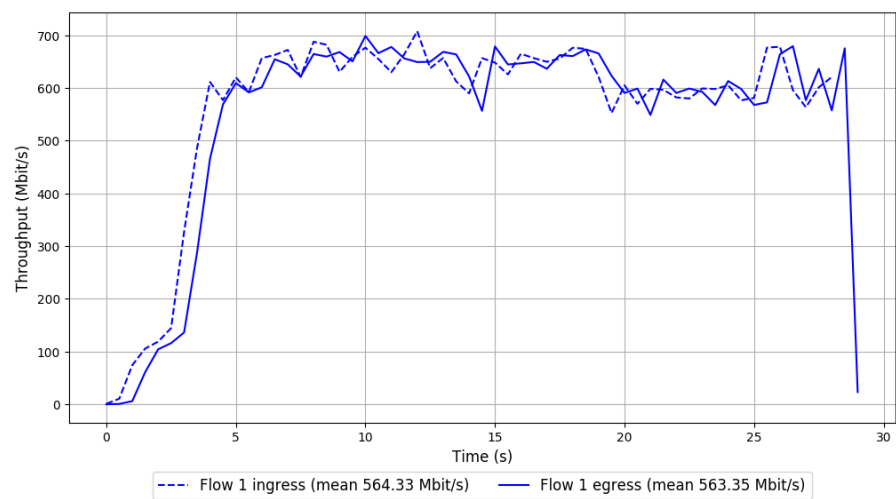
-- Flow 1:

Average throughput: 563.35 Mbit/s

95th percentile per-packet one-way delay: 138.684 ms

Loss rate: 0.16%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-08 22:08:39

End at: 2019-03-08 22:09:09

Local clock offset: 1.576 ms

Remote clock offset: 2.516 ms

Below is generated by plot.py at 2019-03-08 23:32:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.79 Mbit/s

95th percentile per-packet one-way delay: 150.659 ms

Loss rate: 0.03%

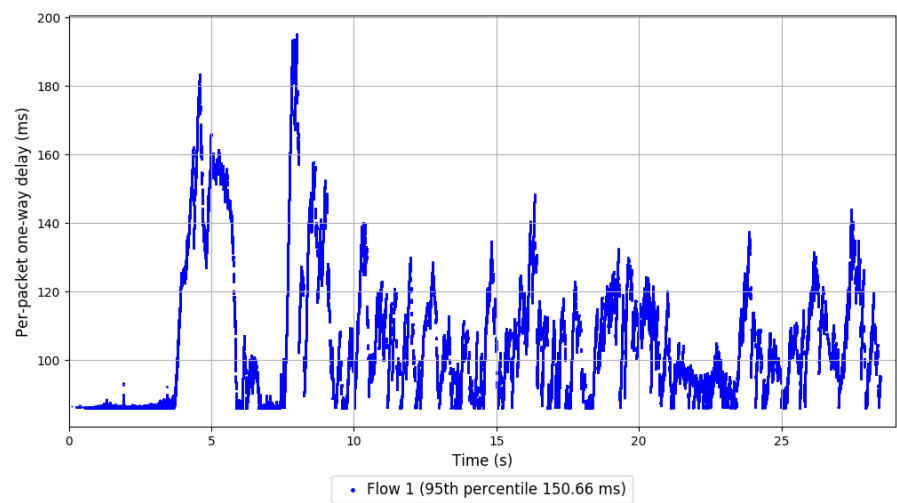
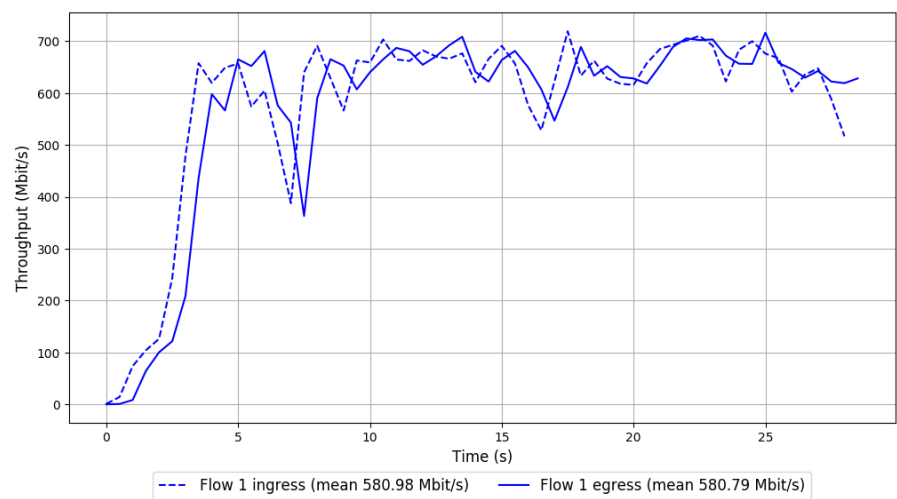
-- Flow 1:

Average throughput: 580.79 Mbit/s

95th percentile per-packet one-way delay: 150.659 ms

Loss rate: 0.03%

Run 5: Report of Indigo-MusesC5 — Data Link

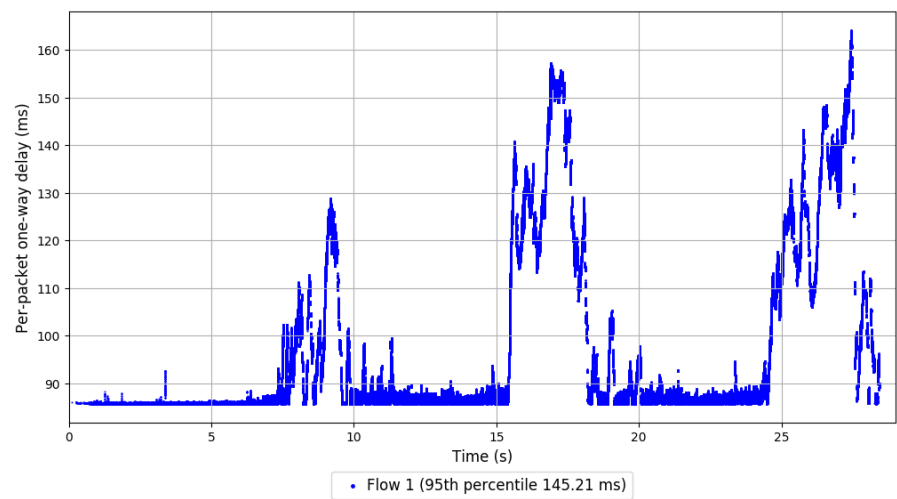
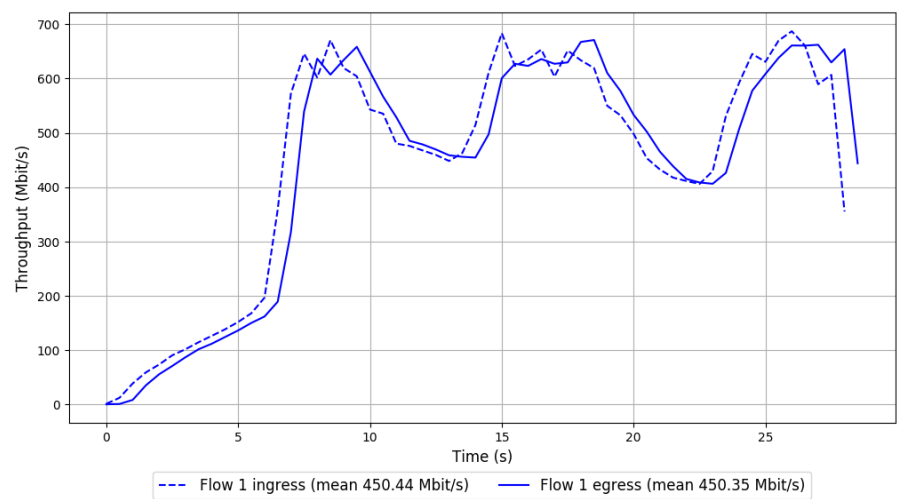



```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-08 20:11:17
End at: 2019-03-08 20:11:47
Local clock offset: 9.819 ms
Remote clock offset: 9.258 ms

# Below is generated by plot.py at 2019-03-08 23:32:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 450.35 Mbit/s
95th percentile per-packet one-way delay: 145.213 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 450.35 Mbit/s
95th percentile per-packet one-way delay: 145.213 ms
Loss rate: 0.02%
```

Run 1: Report of Indigo-MusesD — Data Link

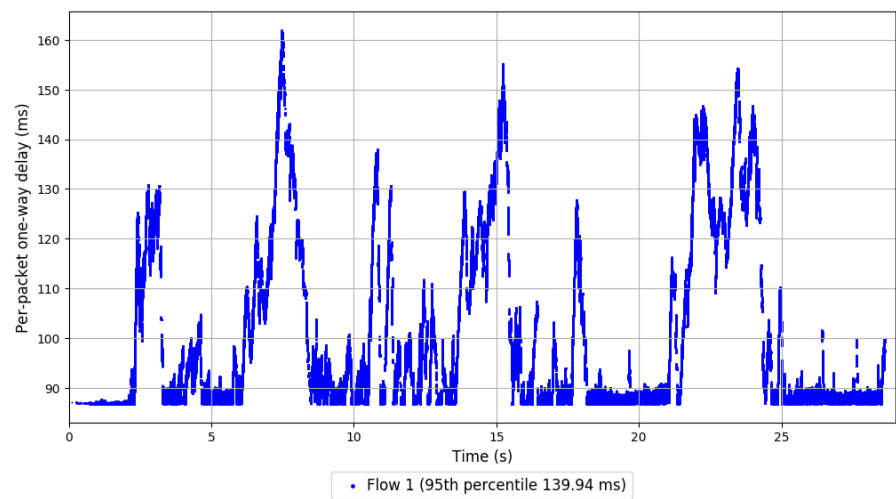
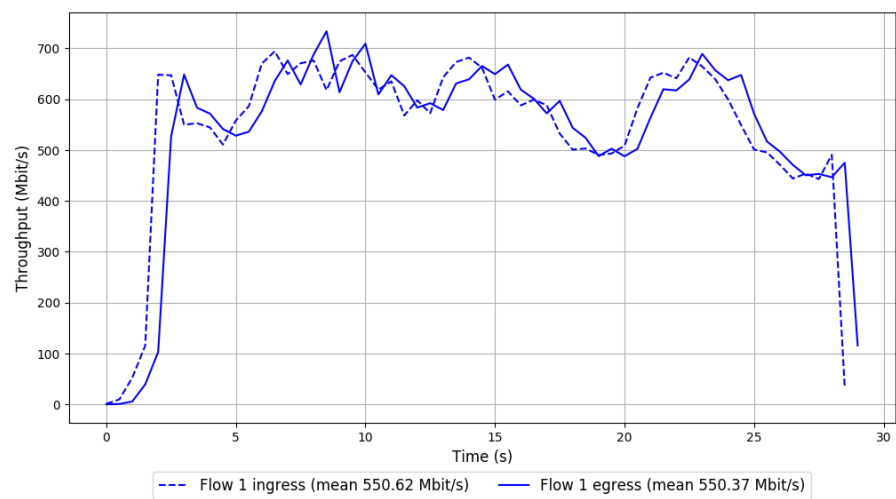


Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-08 20:42:26
End at: 2019-03-08 20:42:56
Local clock offset: 16.582 ms
Remote clock offset: 16.209 ms

Below is generated by plot.py at 2019-03-08 23:32:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 550.37 Mbit/s
95th percentile per-packet one-way delay: 139.944 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 550.37 Mbit/s
95th percentile per-packet one-way delay: 139.944 ms
Loss rate: 0.03%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-08 21:13:38

End at: 2019-03-08 21:14:08

Local clock offset: 5.693 ms

Remote clock offset: 8.587 ms

Below is generated by plot.py at 2019-03-08 23:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.60 Mbit/s

95th percentile per-packet one-way delay: 134.354 ms

Loss rate: 0.00%

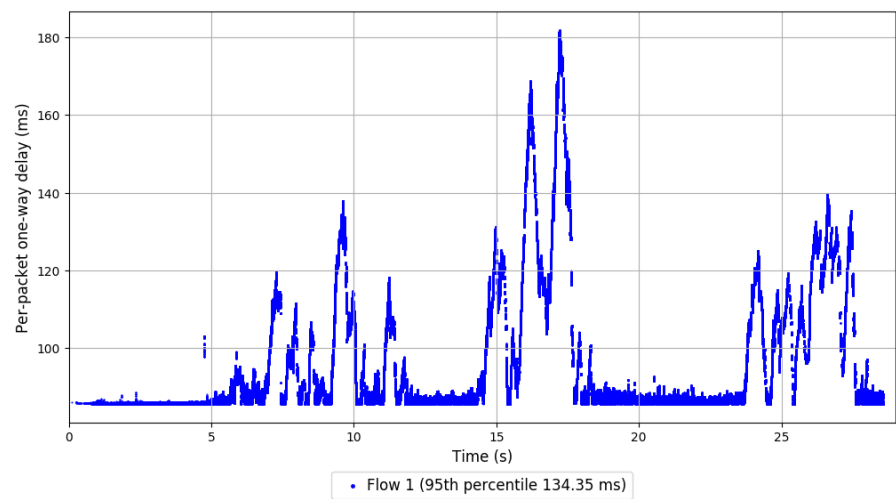
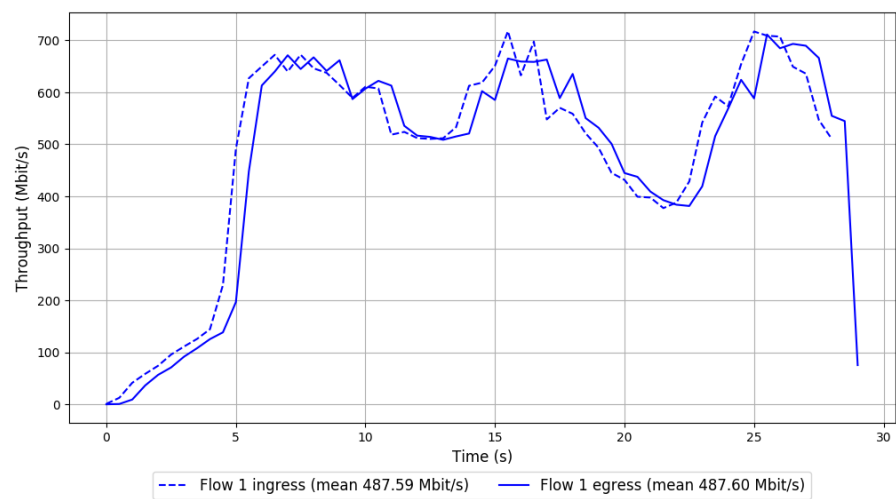
-- Flow 1:

Average throughput: 487.60 Mbit/s

95th percentile per-packet one-way delay: 134.354 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-08 21:44:57

End at: 2019-03-08 21:45:27

Local clock offset: 2.279 ms

Remote clock offset: 4.114 ms

Below is generated by plot.py at 2019-03-08 23:32:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.84 Mbit/s

95th percentile per-packet one-way delay: 153.889 ms

Loss rate: 0.07%

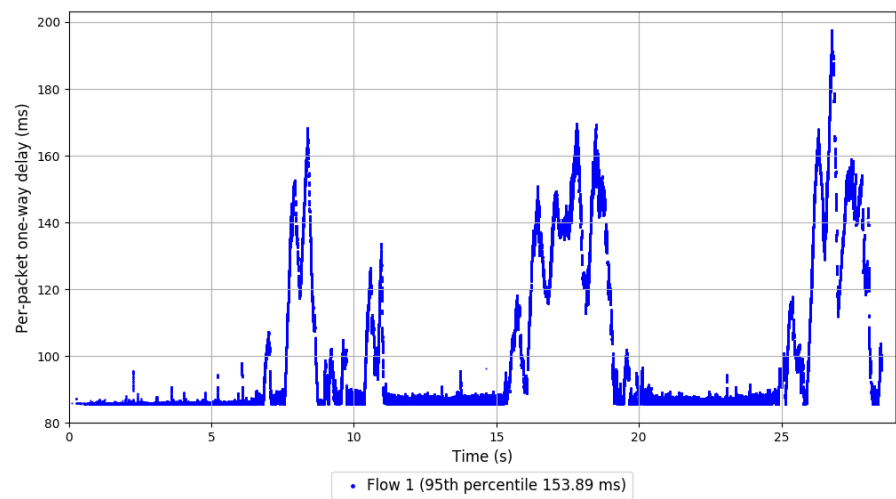
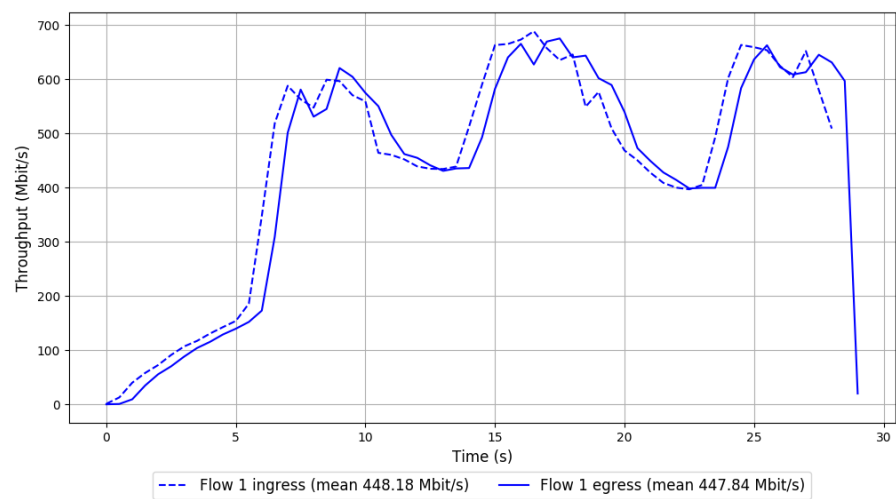
-- Flow 1:

Average throughput: 447.84 Mbit/s

95th percentile per-packet one-way delay: 153.889 ms

Loss rate: 0.07%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-08 22:16:09

End at: 2019-03-08 22:16:39

Local clock offset: 1.292 ms

Remote clock offset: 1.366 ms

Below is generated by plot.py at 2019-03-08 23:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.50 Mbit/s

95th percentile per-packet one-way delay: 133.405 ms

Loss rate: 0.00%

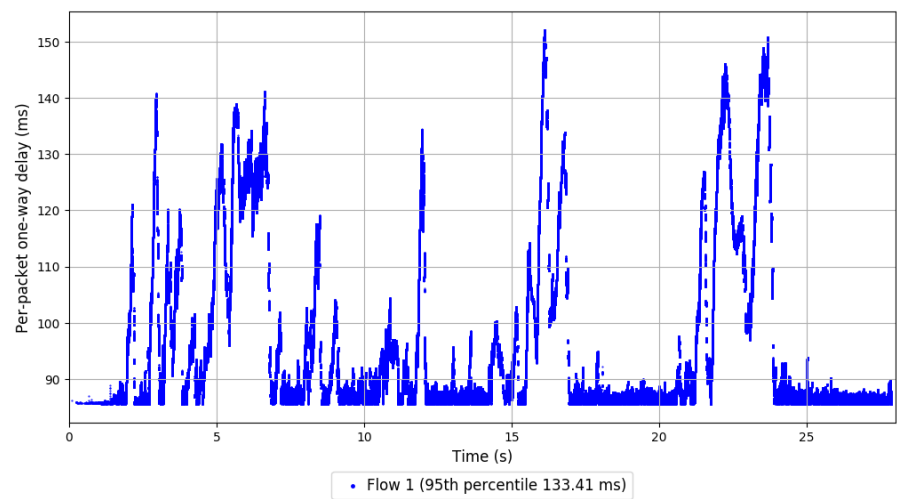
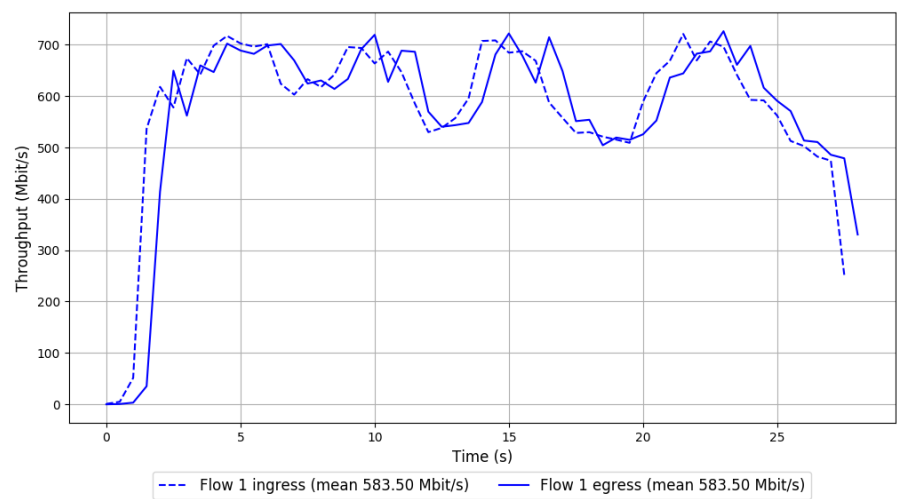
-- Flow 1:

Average throughput: 583.50 Mbit/s

95th percentile per-packet one-way delay: 133.405 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

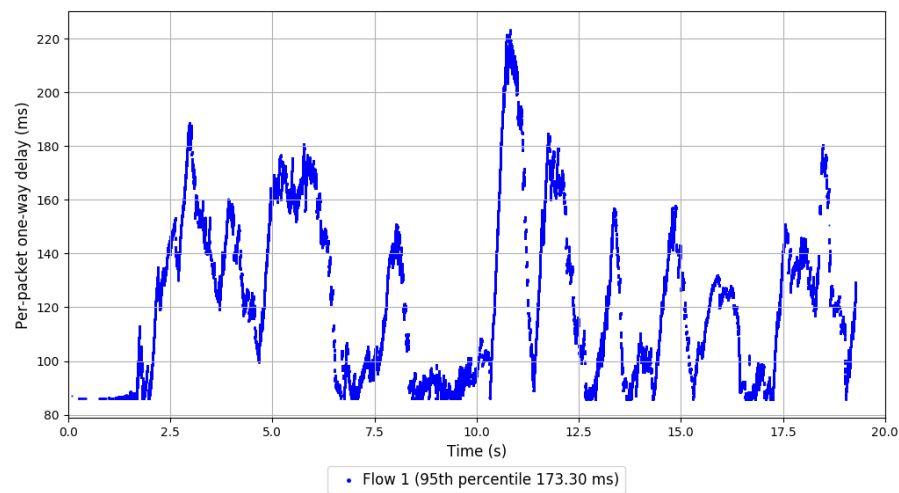
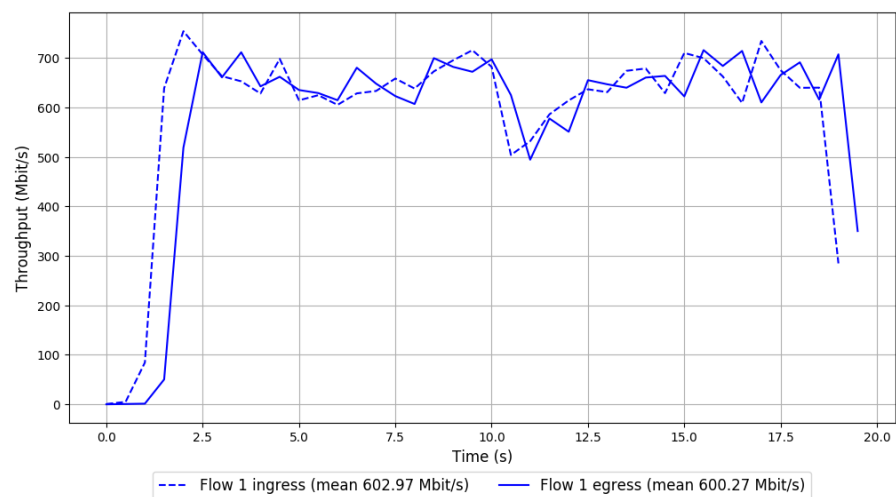
Start at: 2019-03-08 19:46:40

End at: 2019-03-08 19:47:10

Local clock offset: 3.291 ms

Remote clock offset: 2.726 ms

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-08 20:17:38

End at: 2019-03-08 20:18:08

Local clock offset: 14.637 ms

Remote clock offset: 14.031 ms

Below is generated by plot.py at 2019-03-08 23:41:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.65 Mbit/s

95th percentile per-packet one-way delay: 148.951 ms

Loss rate: 0.12%

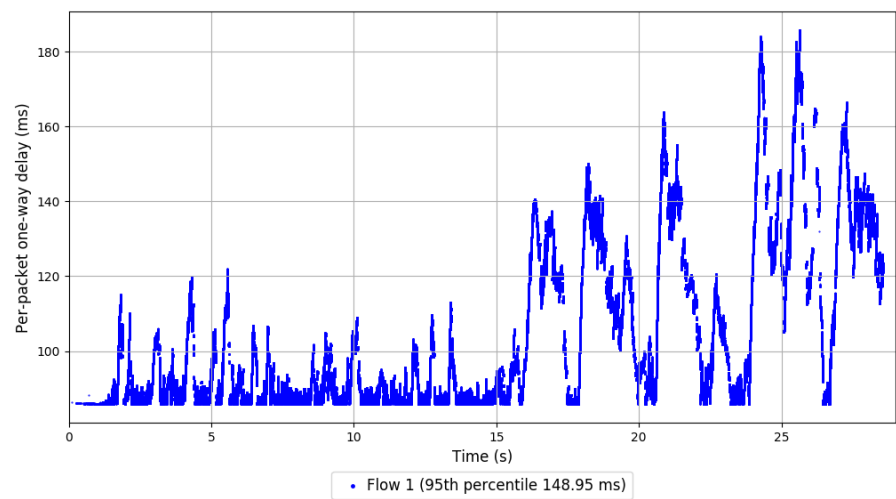
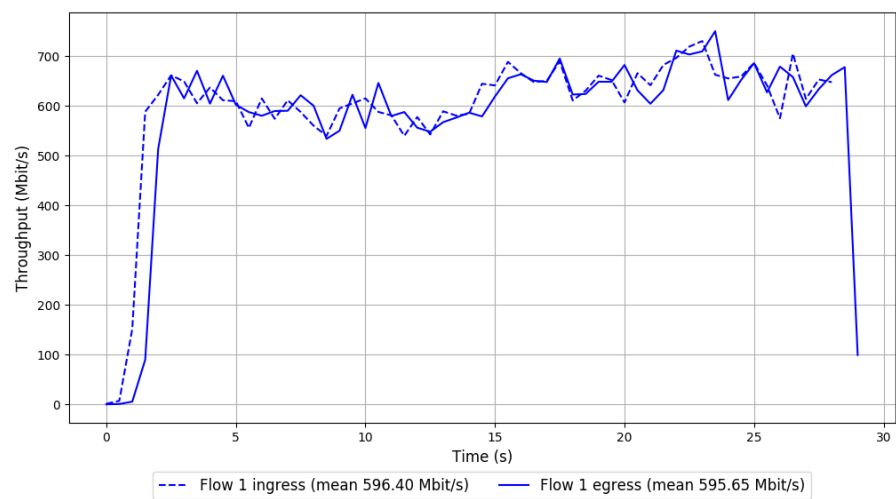
-- Flow 1:

Average throughput: 595.65 Mbit/s

95th percentile per-packet one-way delay: 148.951 ms

Loss rate: 0.12%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-08 20:48:44

End at: 2019-03-08 20:49:14

Local clock offset: 20.906 ms

Remote clock offset: 19.79 ms

Below is generated by plot.py at 2019-03-08 23:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 608.36 Mbit/s

95th percentile per-packet one-way delay: 169.253 ms

Loss rate: 0.22%

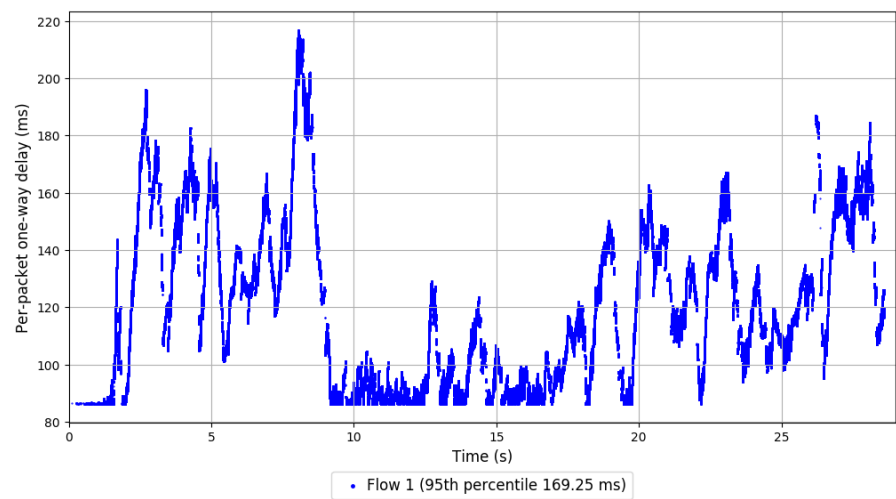
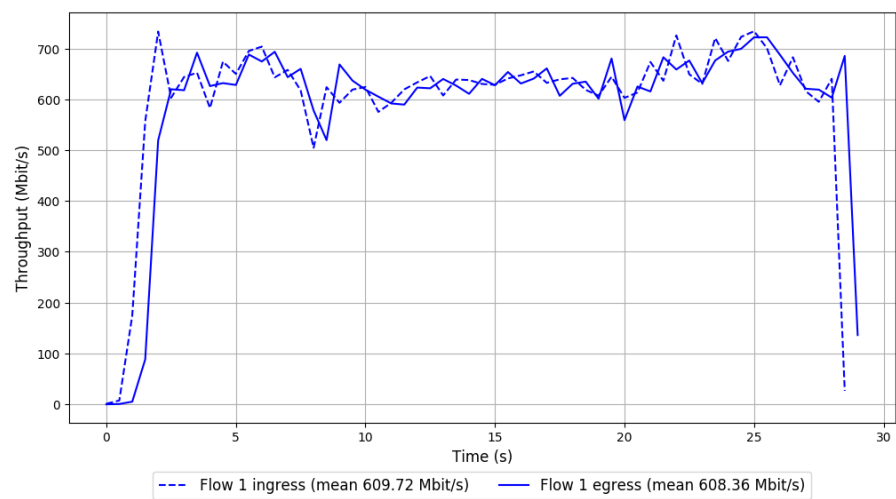
-- Flow 1:

Average throughput: 608.36 Mbit/s

95th percentile per-packet one-way delay: 169.253 ms

Loss rate: 0.22%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-08 21:20:00

End at: 2019-03-08 21:20:30

Local clock offset: 5.841 ms

Remote clock offset: 9.607 ms

Below is generated by plot.py at 2019-03-08 23:43:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 617.36 Mbit/s

95th percentile per-packet one-way delay: 155.243 ms

Loss rate: 0.19%

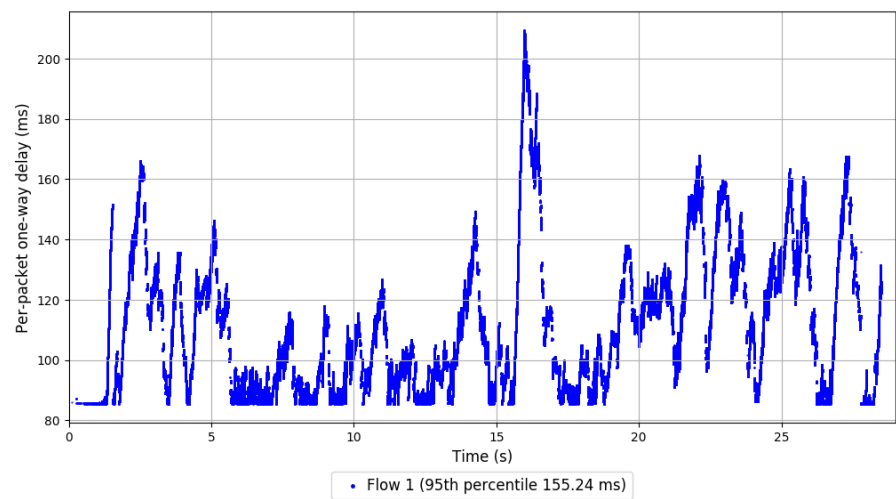
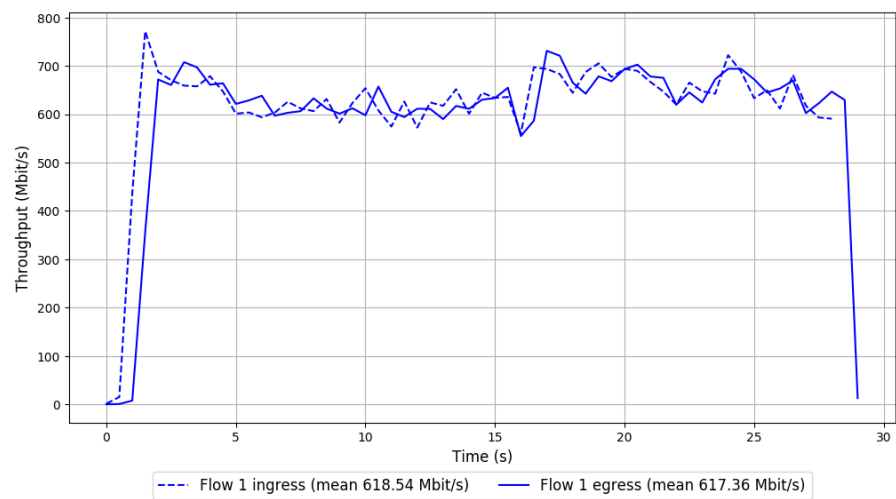
-- Flow 1:

Average throughput: 617.36 Mbit/s

95th percentile per-packet one-way delay: 155.243 ms

Loss rate: 0.19%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-08 21:51:22

End at: 2019-03-08 21:51:52

Local clock offset: 2.07 ms

Remote clock offset: 4.371 ms

Below is generated by plot.py at 2019-03-08 23:43:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 606.36 Mbit/s

95th percentile per-packet one-way delay: 174.667 ms

Loss rate: 0.29%

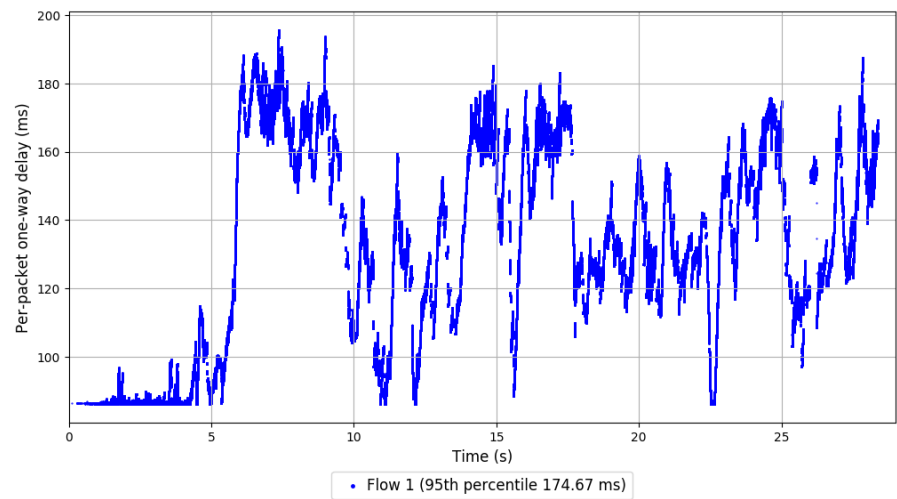
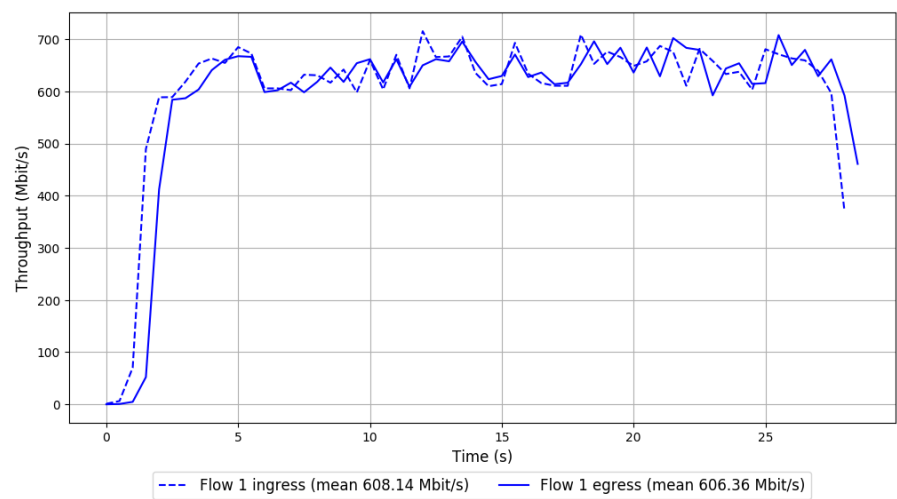
-- Flow 1:

Average throughput: 606.36 Mbit/s

95th percentile per-packet one-way delay: 174.667 ms

Loss rate: 0.29%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-03-08 20:05:33

End at: 2019-03-08 20:06:03

Local clock offset: 7.671 ms

Remote clock offset: 7.406 ms

Below is generated by plot.py at 2019-03-08 23:43:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 87.220 ms

Loss rate: 0.00%

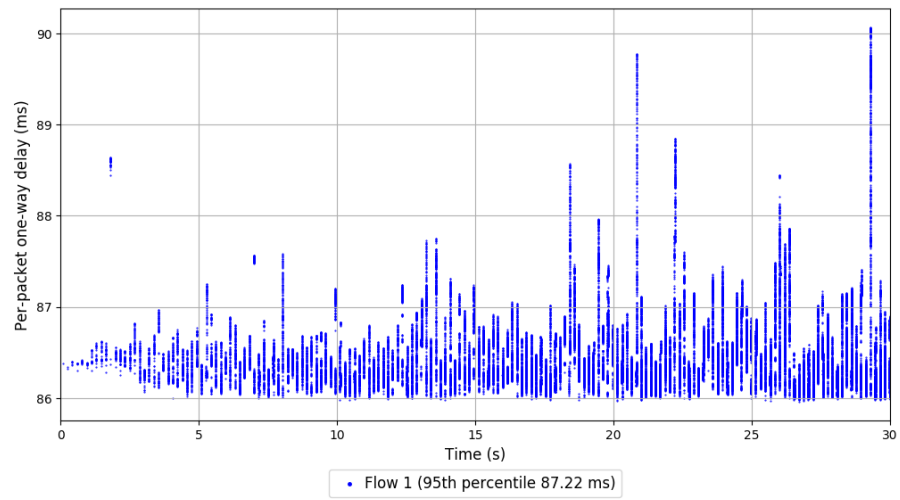
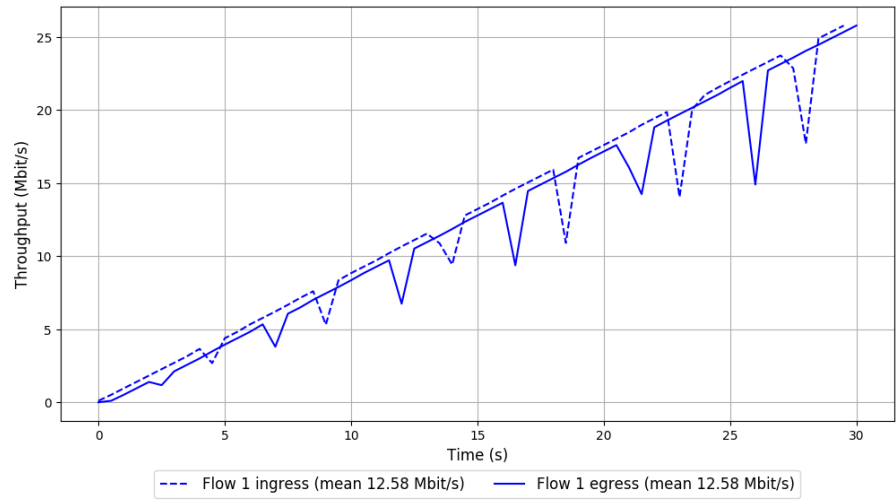
-- Flow 1:

Average throughput: 12.58 Mbit/s

95th percentile per-packet one-way delay: 87.220 ms

Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

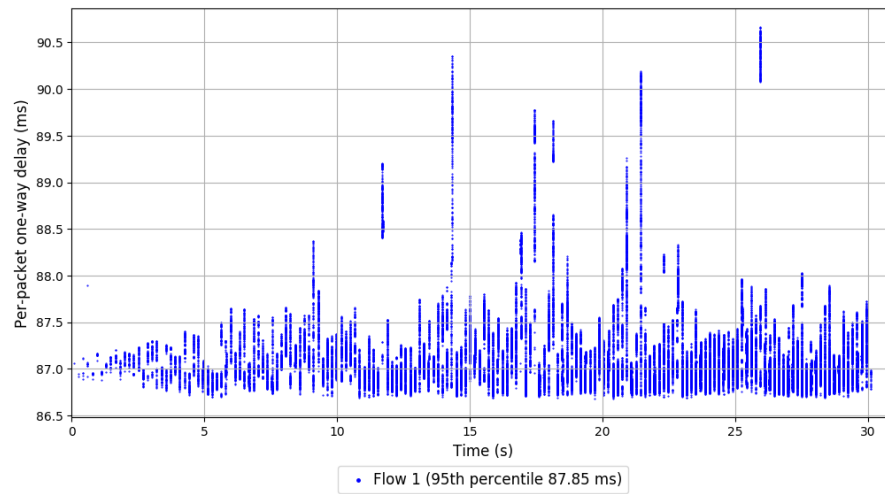
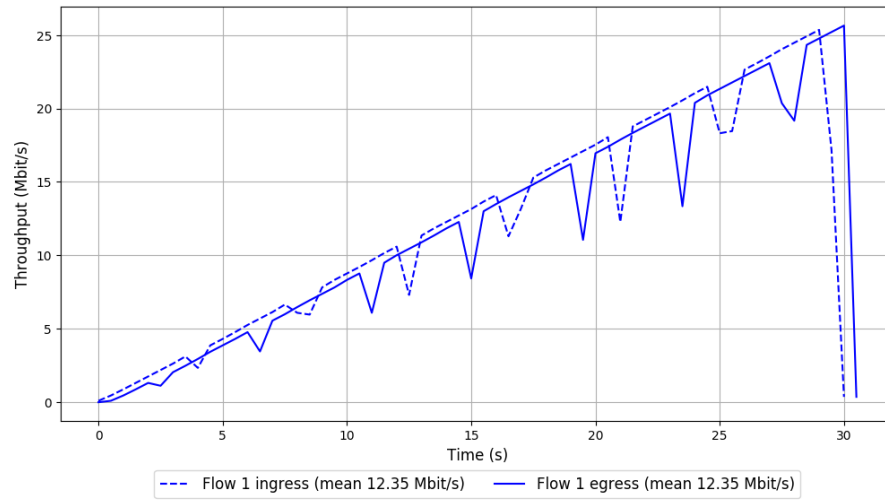


Run 2: Statistics of LEDBAT

Start at: 2019-03-08 20:36:35
End at: 2019-03-08 20:37:05
Local clock offset: 13.85 ms
Remote clock offset: 13.343 ms

Below is generated by plot.py at 2019-03-08 23:43:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 87.854 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 87.854 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-03-08 21:07:49

End at: 2019-03-08 21:08:19

Local clock offset: 6.7 ms

Remote clock offset: 8.673 ms

Below is generated by plot.py at 2019-03-08 23:43:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.88 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.00%

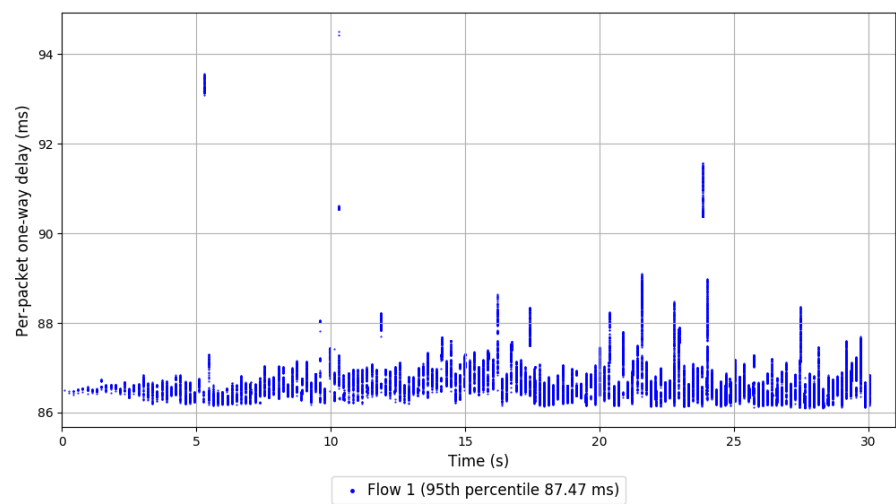
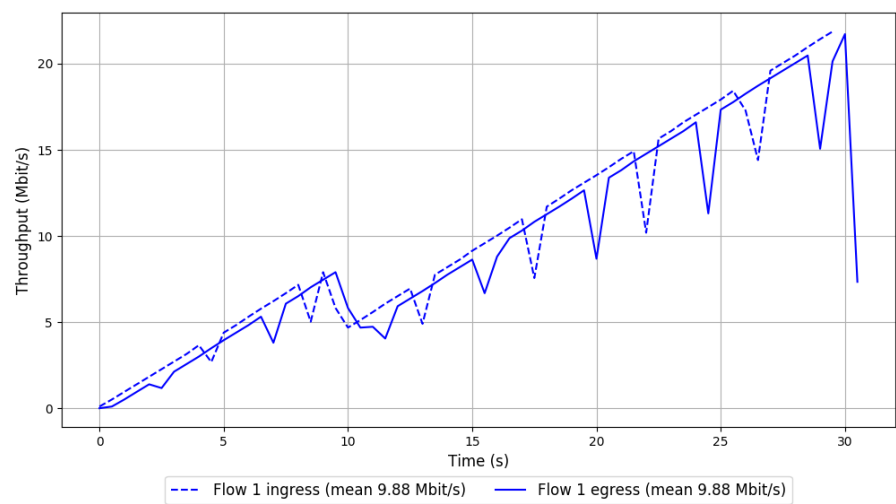
-- Flow 1:

Average throughput: 9.88 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-03-08 21:39:07

End at: 2019-03-08 21:39:37

Local clock offset: 1.964 ms

Remote clock offset: 4.598 ms

Below is generated by plot.py at 2019-03-08 23:43:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 88.263 ms

Loss rate: 0.00%

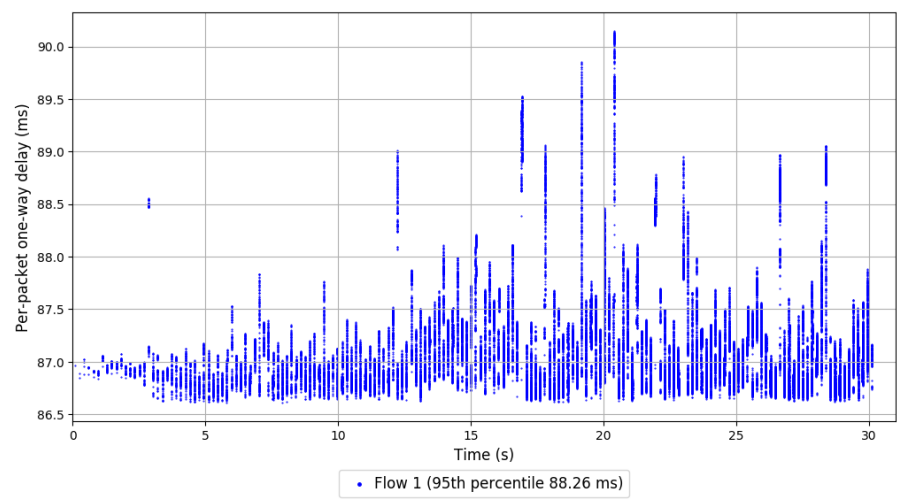
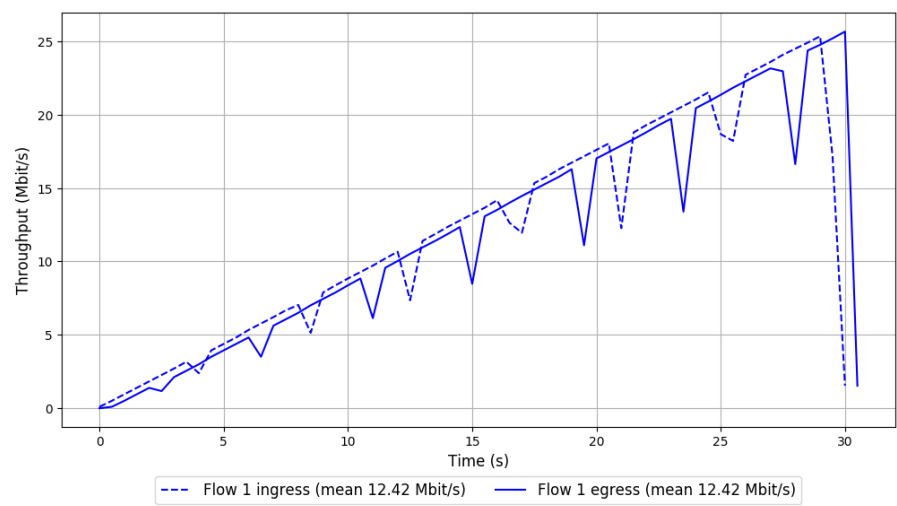
-- Flow 1:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 88.263 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-03-08 22:10:16

End at: 2019-03-08 22:10:46

Local clock offset: 1.019 ms

Remote clock offset: 2.12 ms

Below is generated by plot.py at 2019-03-08 23:43:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 87.495 ms

Loss rate: 0.00%

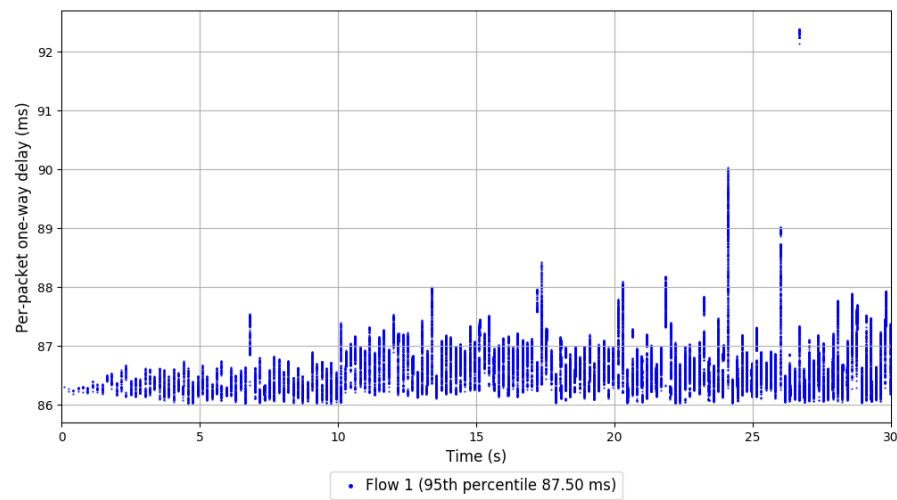
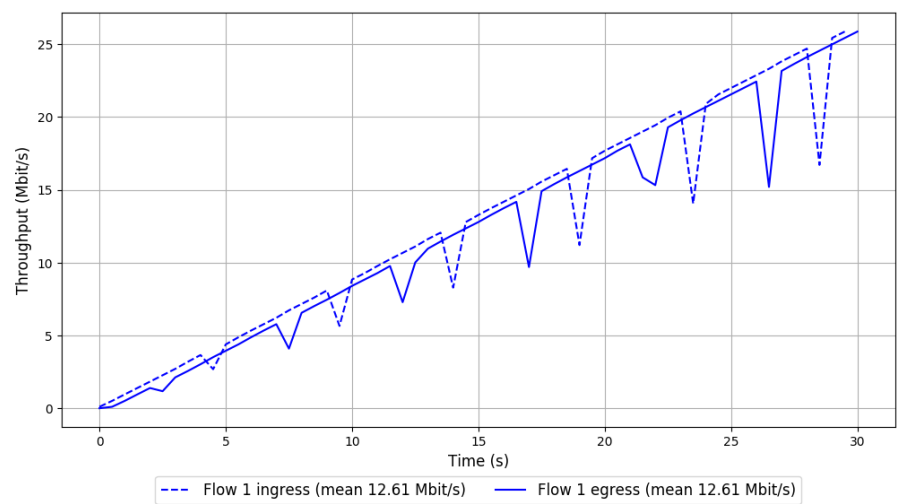
-- Flow 1:

Average throughput: 12.61 Mbit/s

95th percentile per-packet one-way delay: 87.495 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-08 20:01:11

End at: 2019-03-08 20:01:41

Local clock offset: 9.358 ms

Remote clock offset: 9.39 ms

Below is generated by plot.py at 2019-03-08 23:46:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.12 Mbit/s

95th percentile per-packet one-way delay: 123.968 ms

Loss rate: 0.48%

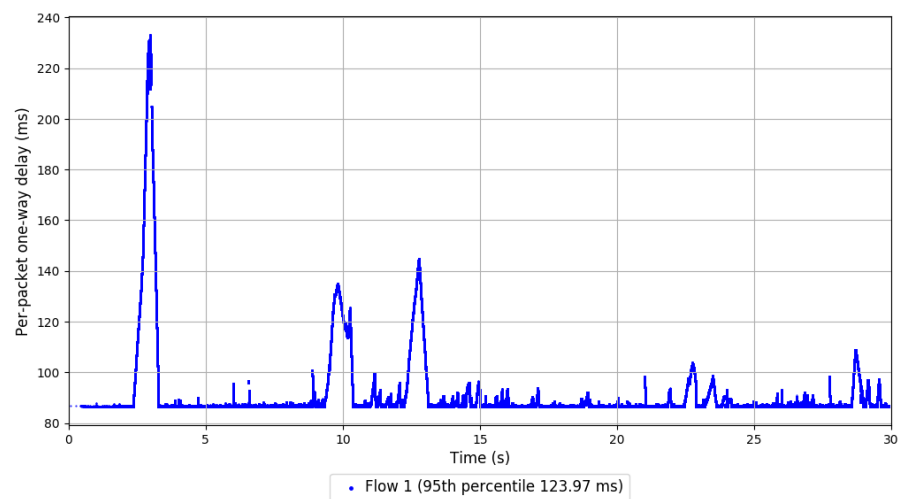
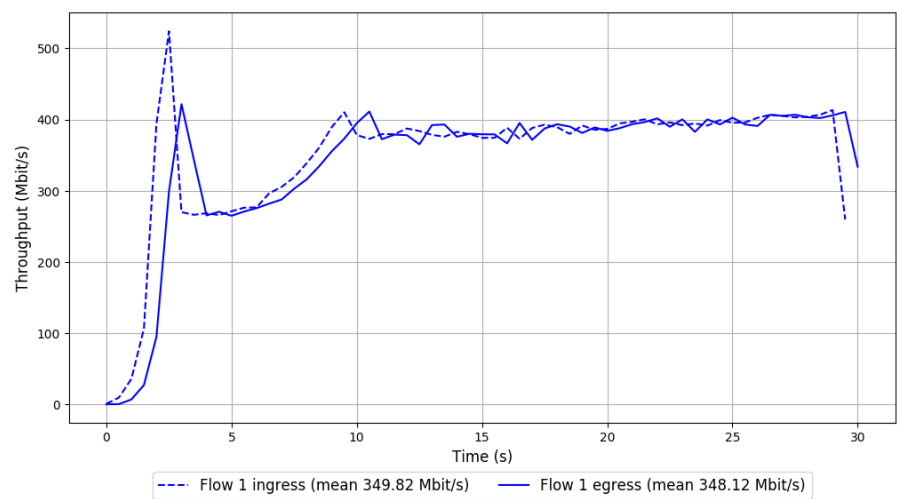
-- Flow 1:

Average throughput: 348.12 Mbit/s

95th percentile per-packet one-way delay: 123.968 ms

Loss rate: 0.48%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-08 20:32:14

End at: 2019-03-08 20:32:44

Local clock offset: 12.48 ms

Remote clock offset: 11.701 ms

Below is generated by plot.py at 2019-03-08 23:46:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.54 Mbit/s

95th percentile per-packet one-way delay: 129.038 ms

Loss rate: 0.15%

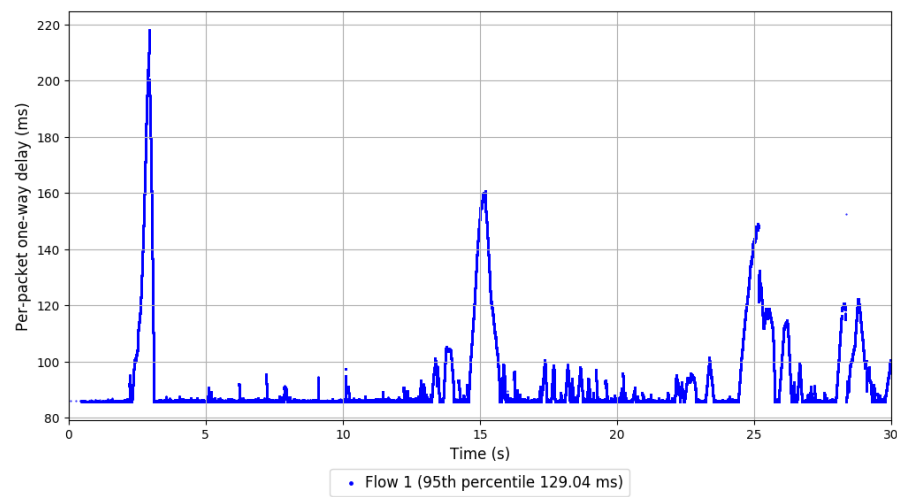
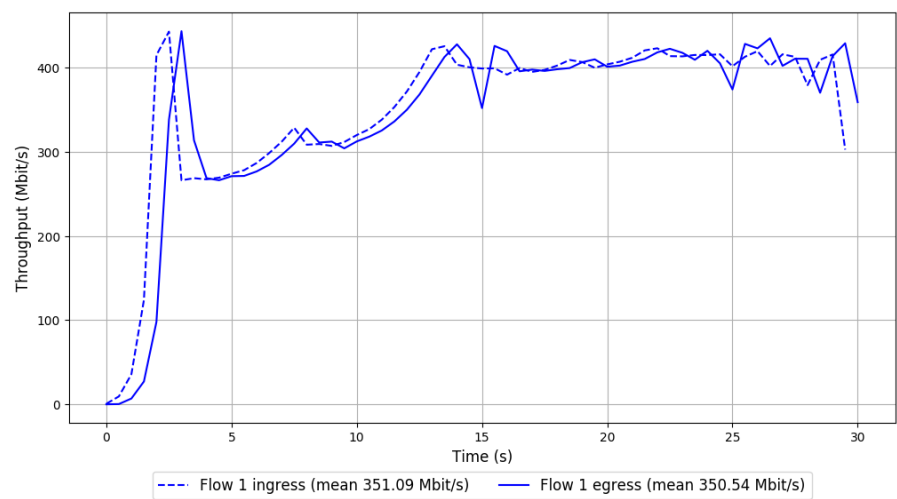
-- Flow 1:

Average throughput: 350.54 Mbit/s

95th percentile per-packet one-way delay: 129.038 ms

Loss rate: 0.15%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-08 21:03:26

End at: 2019-03-08 21:03:56

Local clock offset: 8.848 ms

Remote clock offset: 9.912 ms

Below is generated by plot.py at 2019-03-08 23:48:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.86 Mbit/s

95th percentile per-packet one-way delay: 183.903 ms

Loss rate: 0.29%

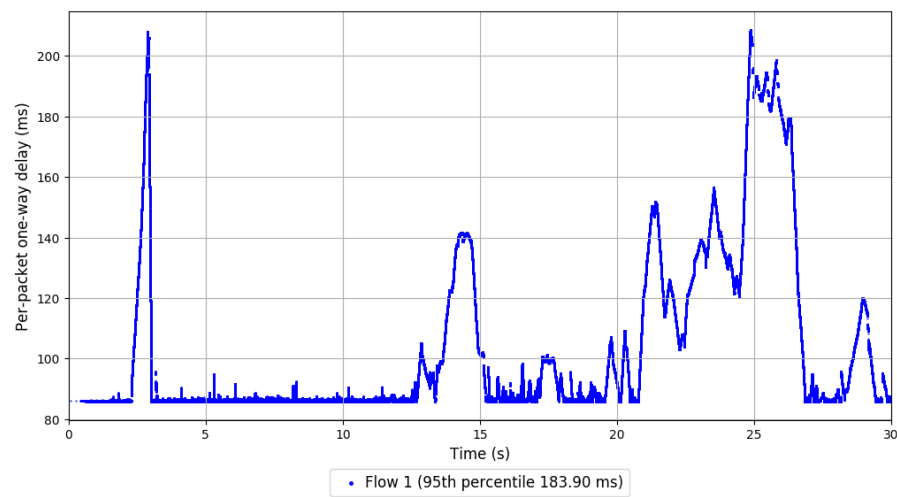
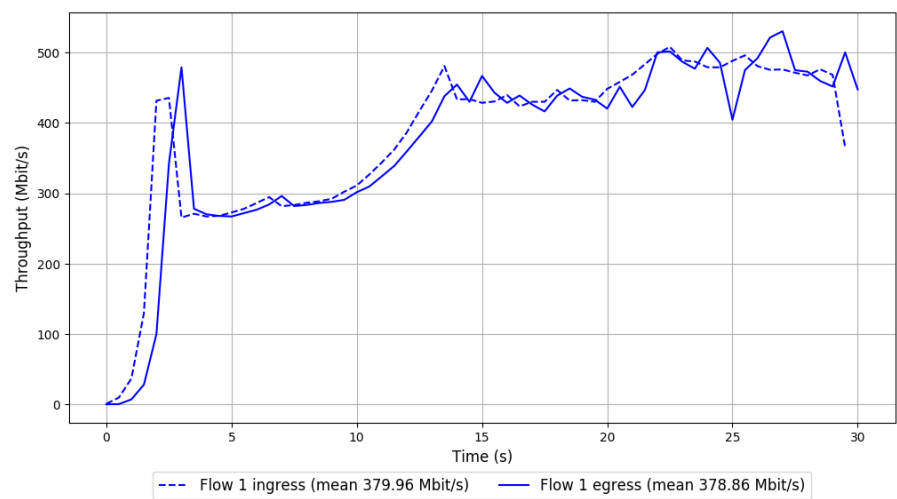
-- Flow 1:

Average throughput: 378.86 Mbit/s

95th percentile per-packet one-way delay: 183.903 ms

Loss rate: 0.29%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-08 21:34:43

End at: 2019-03-08 21:35:13

Local clock offset: 3.505 ms

Remote clock offset: 5.807 ms

Below is generated by plot.py at 2019-03-08 23:52:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.32 Mbit/s

95th percentile per-packet one-way delay: 192.741 ms

Loss rate: 1.86%

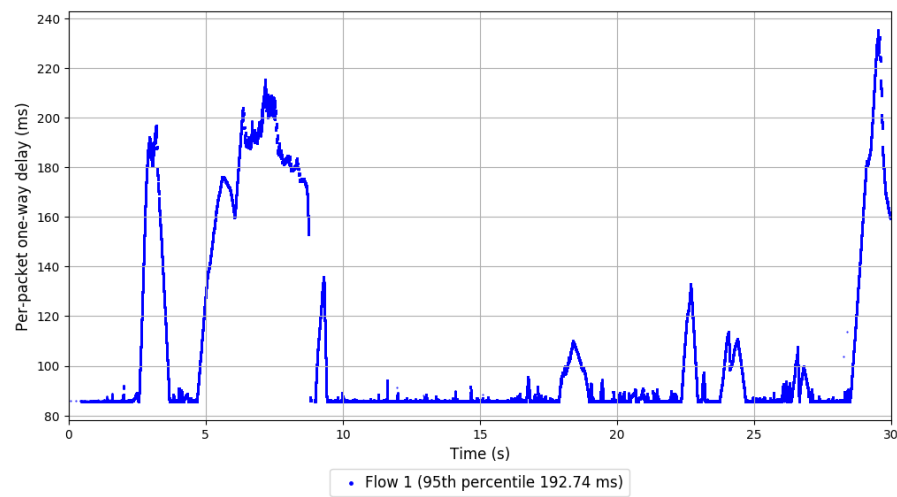
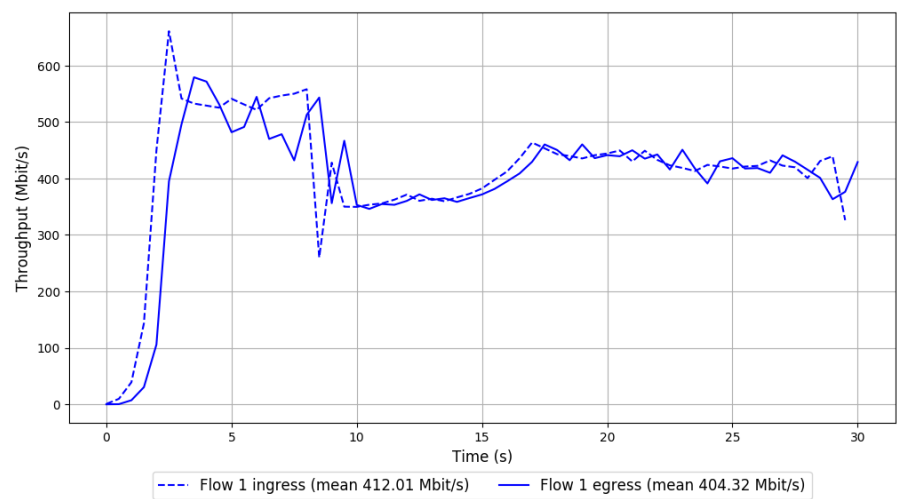
-- Flow 1:

Average throughput: 404.32 Mbit/s

95th percentile per-packet one-way delay: 192.741 ms

Loss rate: 1.86%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-08 22:05:57

End at: 2019-03-08 22:06:27

Local clock offset: 2.118 ms

Remote clock offset: 3.308 ms

Below is generated by plot.py at 2019-03-08 23:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.86 Mbit/s

95th percentile per-packet one-way delay: 98.922 ms

Loss rate: 0.17%

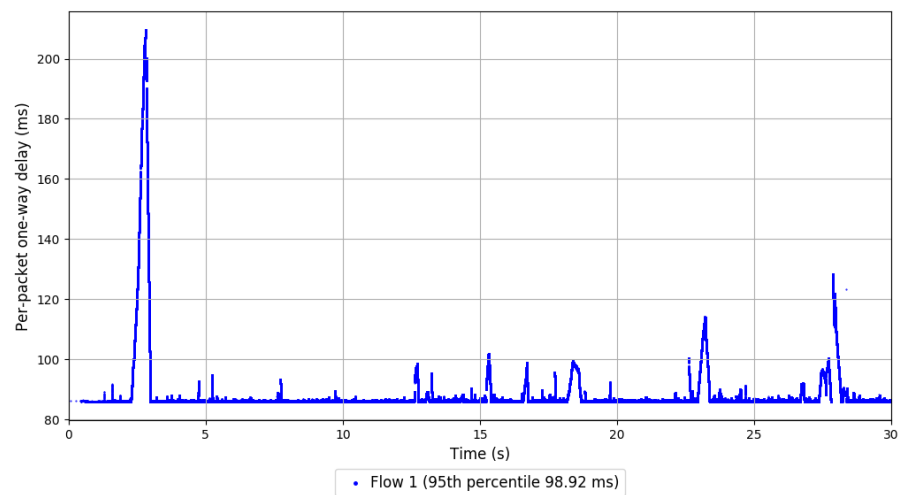
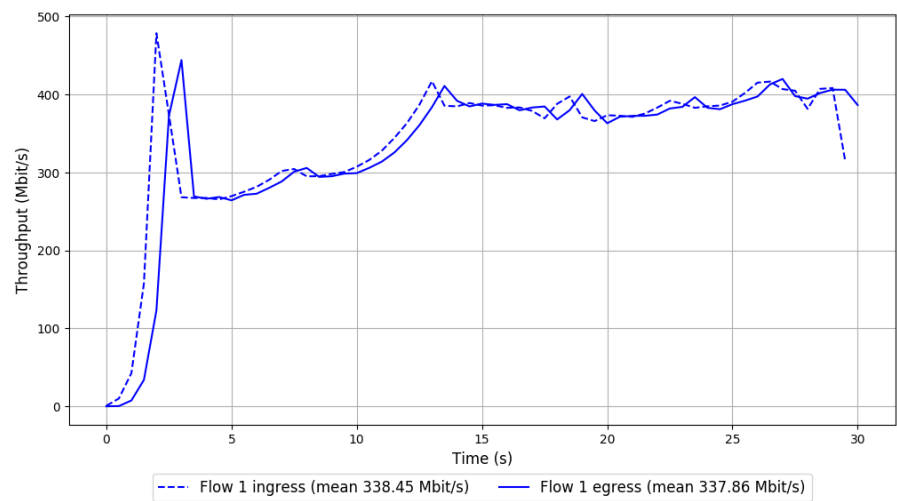
-- Flow 1:

Average throughput: 337.86 Mbit/s

95th percentile per-packet one-way delay: 98.922 ms

Loss rate: 0.17%

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-03-08 19:57:14

End at: 2019-03-08 19:57:44

Local clock offset: 5.513 ms

Remote clock offset: 5.593 ms

Below is generated by plot.py at 2019-03-08 23:54:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.30 Mbit/s

95th percentile per-packet one-way delay: 130.069 ms

Loss rate: 0.30%

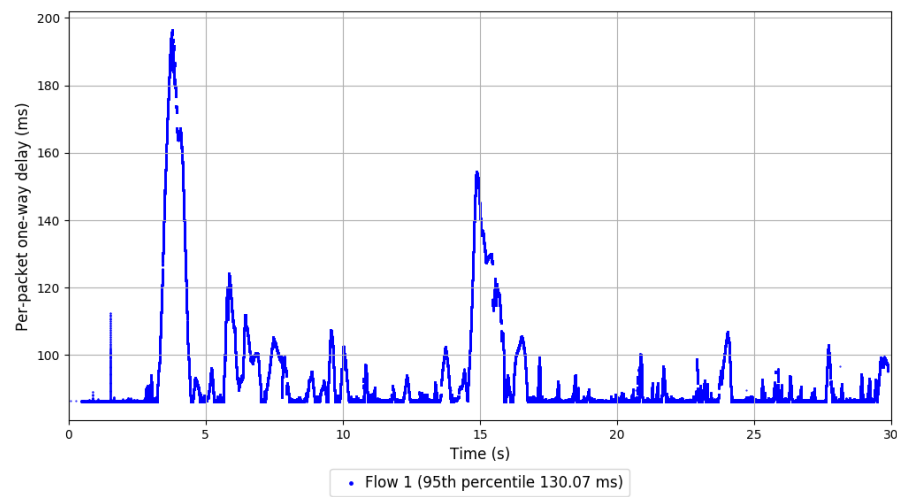
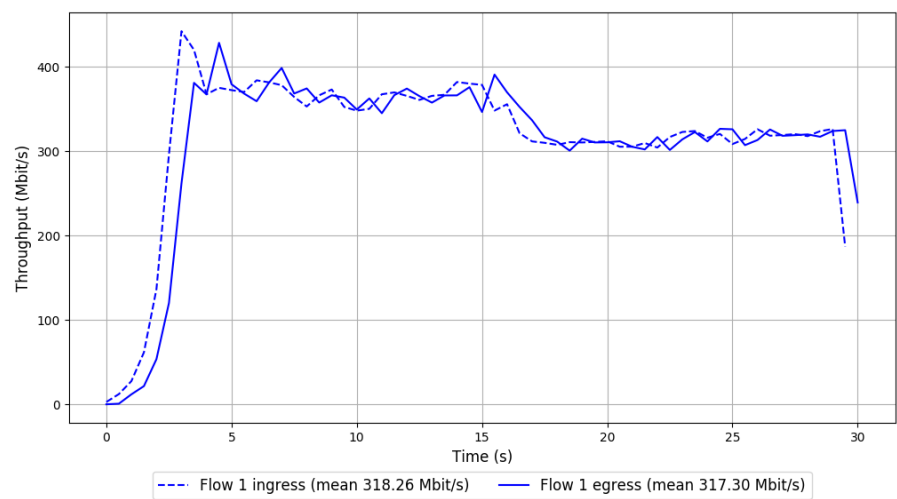
-- Flow 1:

Average throughput: 317.30 Mbit/s

95th percentile per-packet one-way delay: 130.069 ms

Loss rate: 0.30%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-03-08 20:28:19

End at: 2019-03-08 20:28:49

Local clock offset: 11.65 ms

Remote clock offset: 11.04 ms

Below is generated by plot.py at 2019-03-08 23:54:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.87 Mbit/s

95th percentile per-packet one-way delay: 176.032 ms

Loss rate: 0.63%

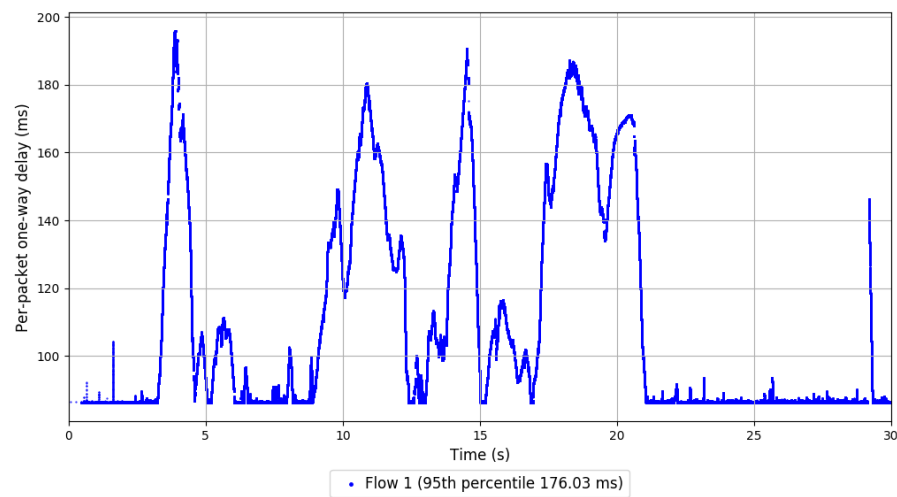
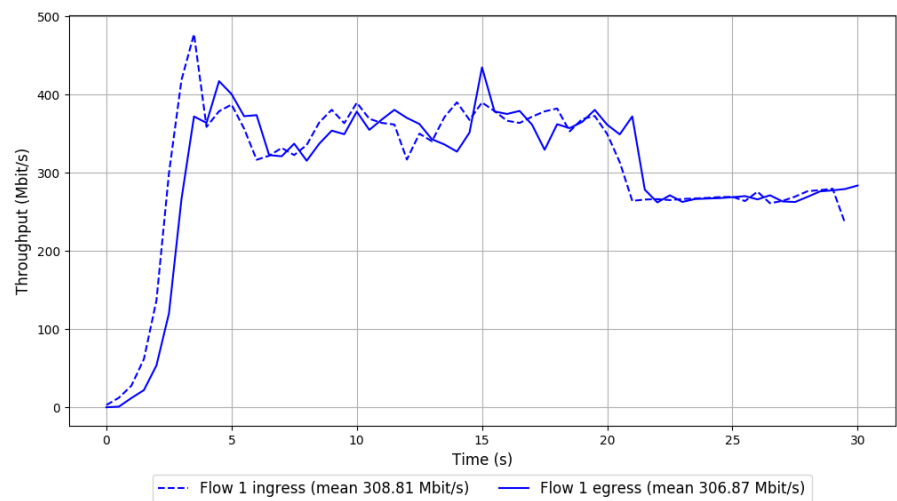
-- Flow 1:

Average throughput: 306.87 Mbit/s

95th percentile per-packet one-way delay: 176.032 ms

Loss rate: 0.63%

Run 2: Report of PCC-Expr — Data Link

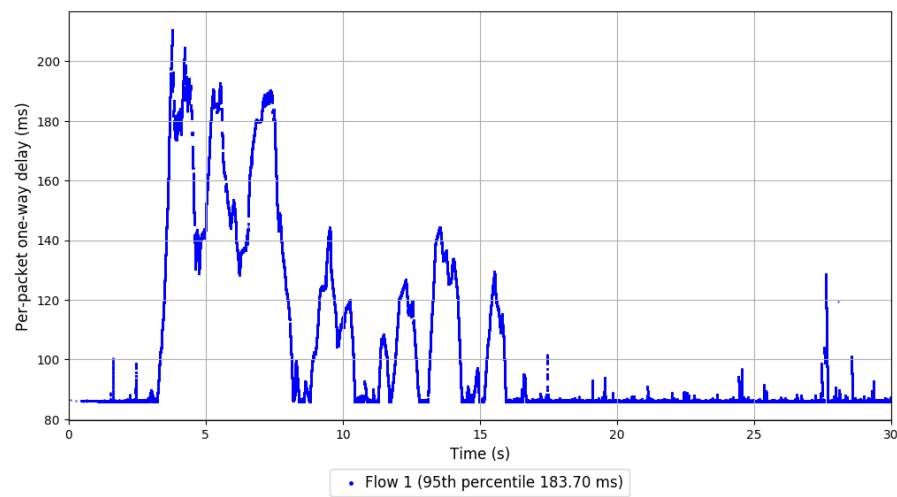
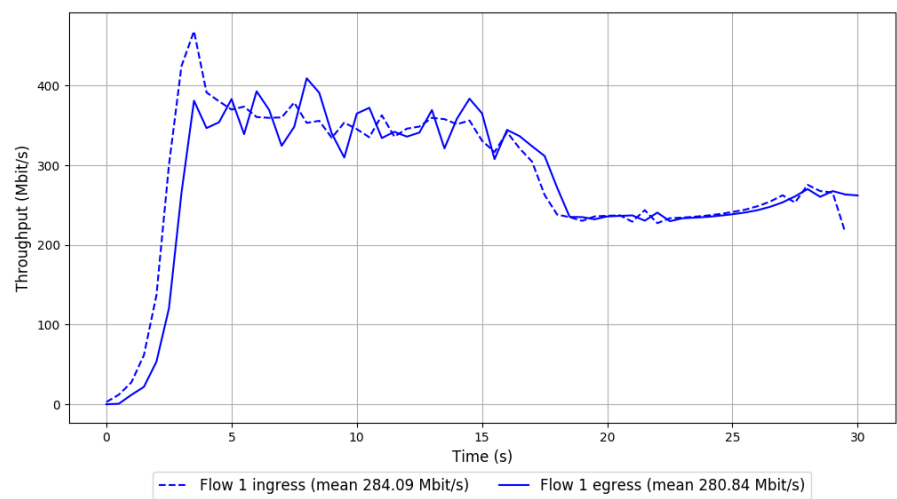


Run 3: Statistics of PCC-Expr

Start at: 2019-03-08 20:59:32
End at: 2019-03-08 21:00:02
Local clock offset: 12.334 ms
Remote clock offset: 12.547 ms

Below is generated by plot.py at 2019-03-08 23:54:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 280.84 Mbit/s
95th percentile per-packet one-way delay: 183.700 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 280.84 Mbit/s
95th percentile per-packet one-way delay: 183.700 ms
Loss rate: 1.15%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-08 21:30:47

End at: 2019-03-08 21:31:17

Local clock offset: 4.482 ms

Remote clock offset: 7.863 ms

Below is generated by plot.py at 2019-03-08 23:56:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.69 Mbit/s

95th percentile per-packet one-way delay: 136.147 ms

Loss rate: 0.85%

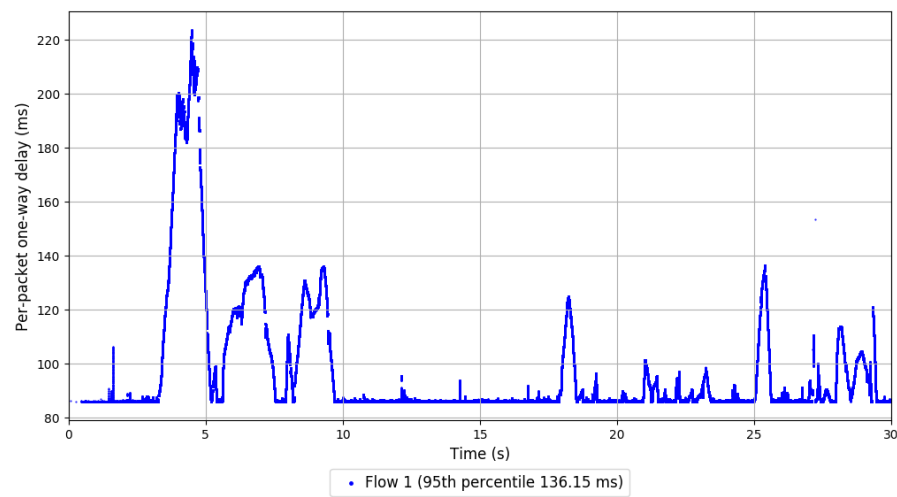
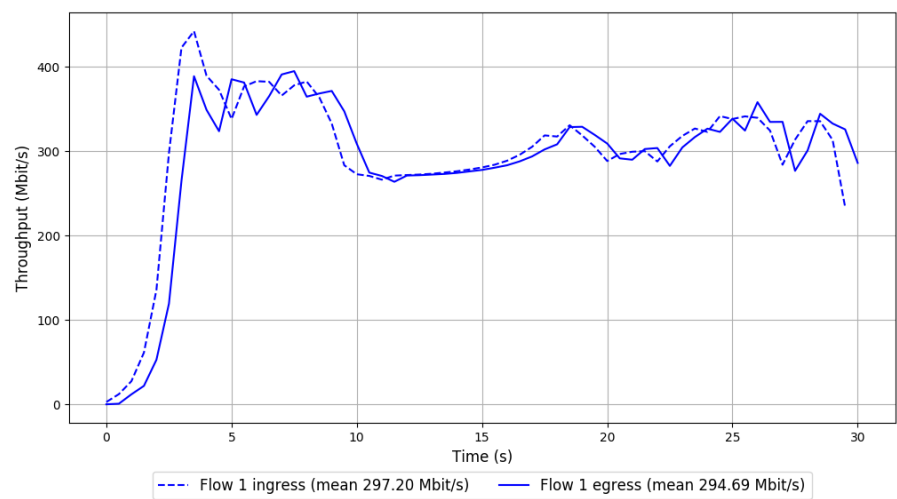
-- Flow 1:

Average throughput: 294.69 Mbit/s

95th percentile per-packet one-way delay: 136.147 ms

Loss rate: 0.85%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-03-08 22:02:01

End at: 2019-03-08 22:02:31

Local clock offset: 2.373 ms

Remote clock offset: 5.037 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.52 Mbit/s

95th percentile per-packet one-way delay: 197.892 ms

Loss rate: 3.14%

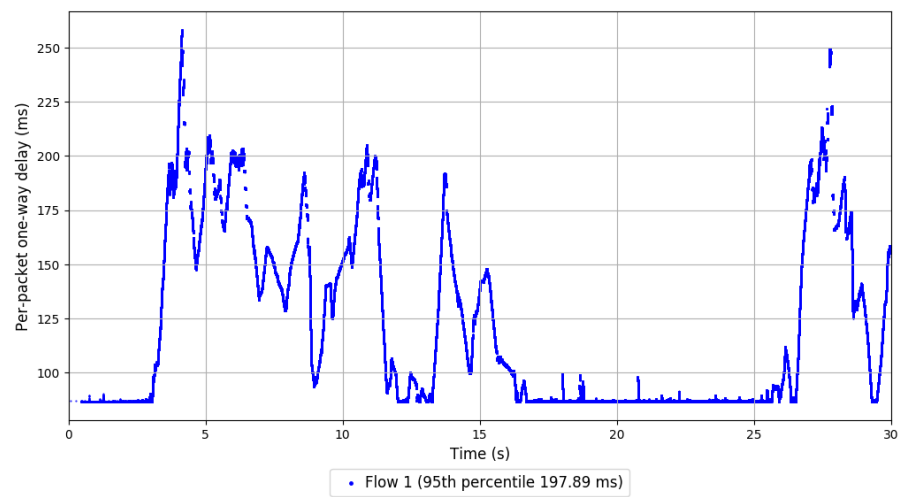
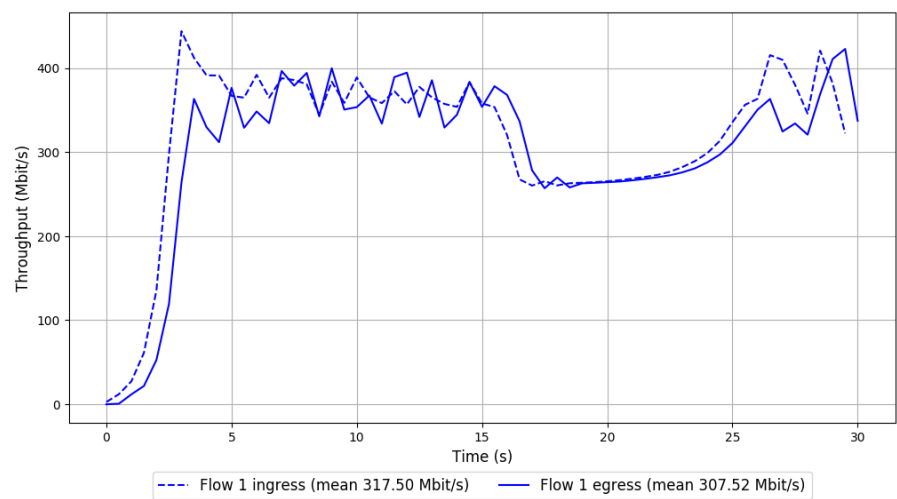
-- Flow 1:

Average throughput: 307.52 Mbit/s

95th percentile per-packet one-way delay: 197.892 ms

Loss rate: 3.14%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-08 19:52:51

End at: 2019-03-08 19:53:21

Local clock offset: 5.167 ms

Remote clock offset: 6.003 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 87.527 ms

Loss rate: 0.00%

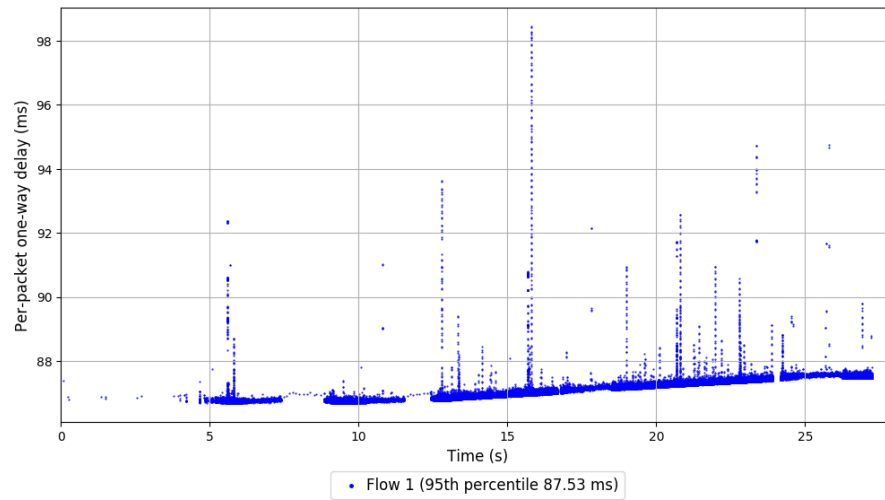
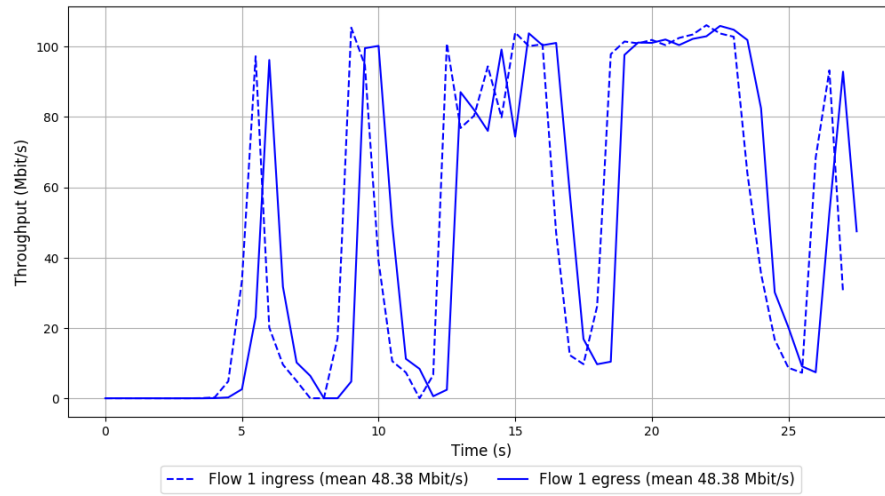
-- Flow 1:

Average throughput: 48.38 Mbit/s

95th percentile per-packet one-way delay: 87.527 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

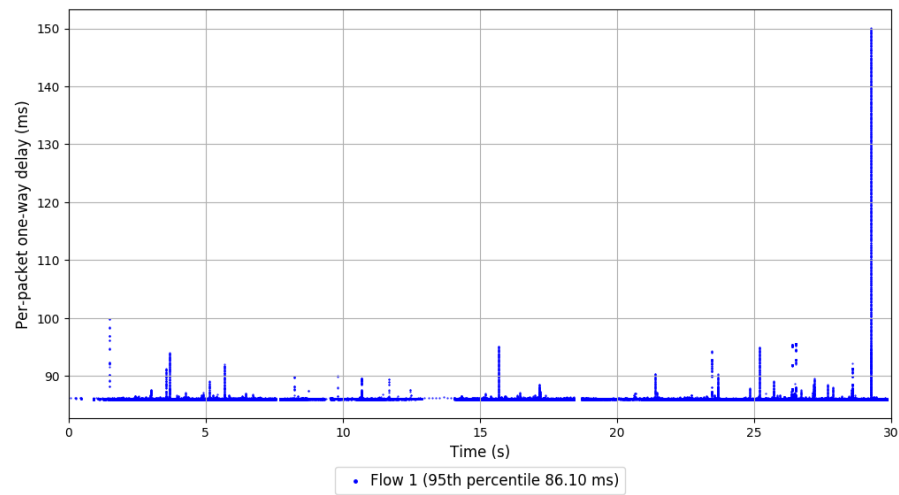
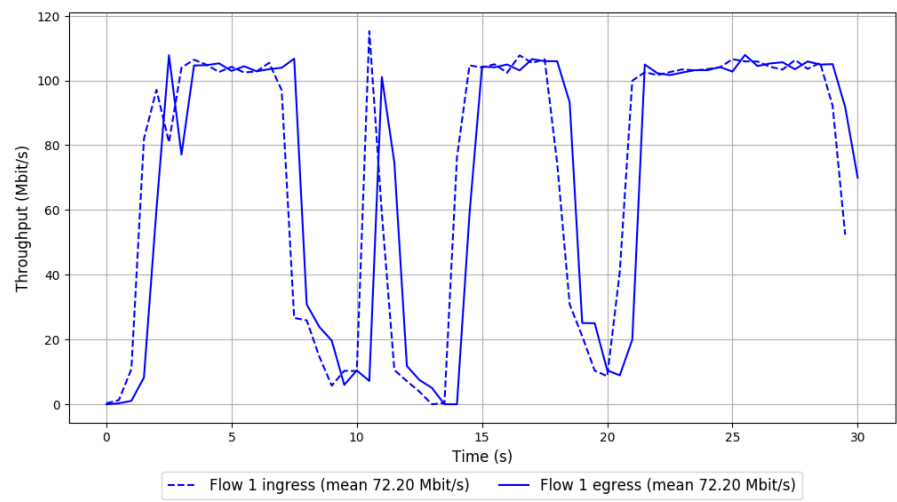


Run 2: Statistics of QUIC Cubic

Start at: 2019-03-08 20:24:01
End at: 2019-03-08 20:24:31
Local clock offset: 12.146 ms
Remote clock offset: 11.473 ms

Below is generated by plot.py at 2019-03-08 23:57:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 86.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.20 Mbit/s
95th percentile per-packet one-way delay: 86.100 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-03-08 20:55:03

End at: 2019-03-08 20:55:33

Local clock offset: 20.27 ms

Remote clock offset: 18.077 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 85.061 ms

Loss rate: 0.00%

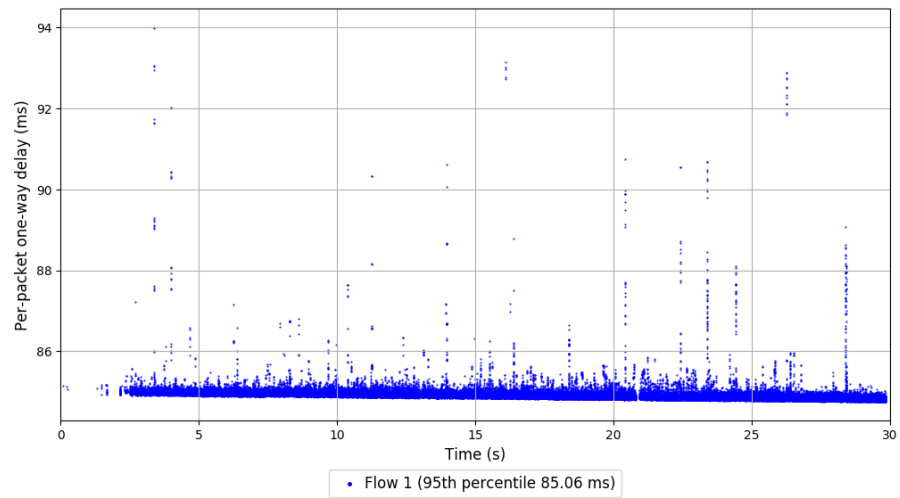
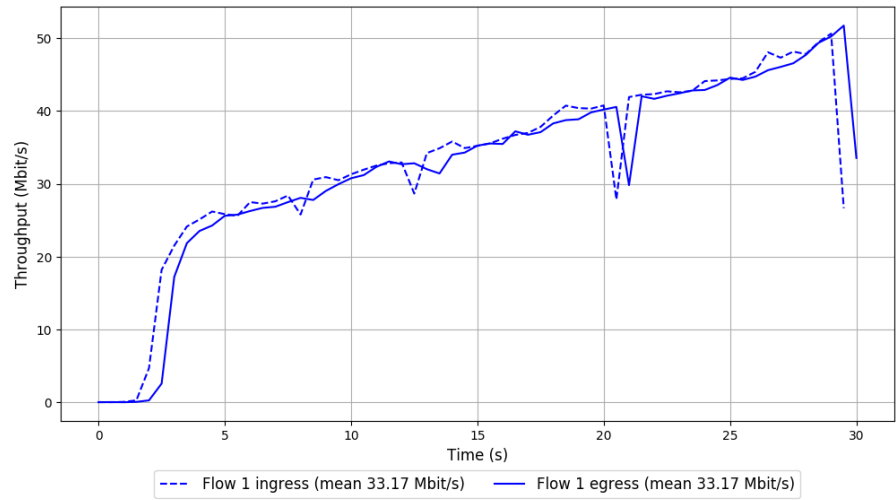
-- Flow 1:

Average throughput: 33.17 Mbit/s

95th percentile per-packet one-way delay: 85.061 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-03-08 21:26:24

End at: 2019-03-08 21:26:54

Local clock offset: 5.917 ms

Remote clock offset: 11.13 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 85.976 ms

Loss rate: 0.00%

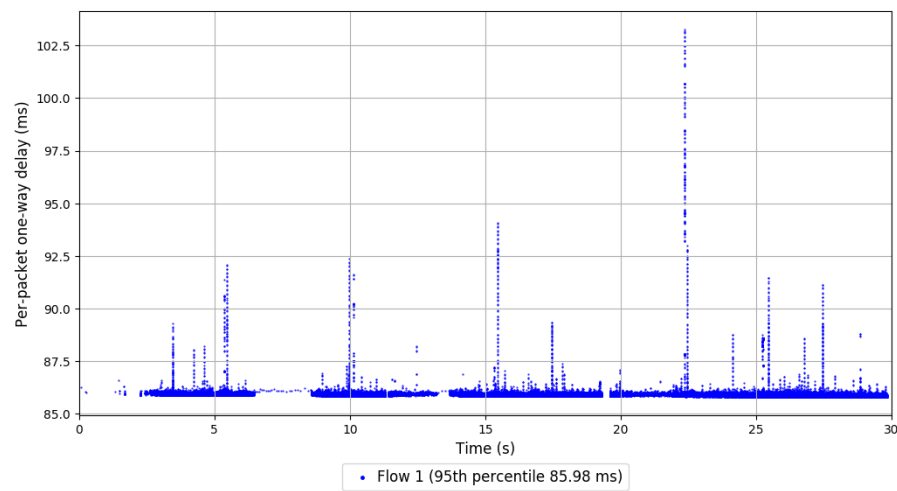
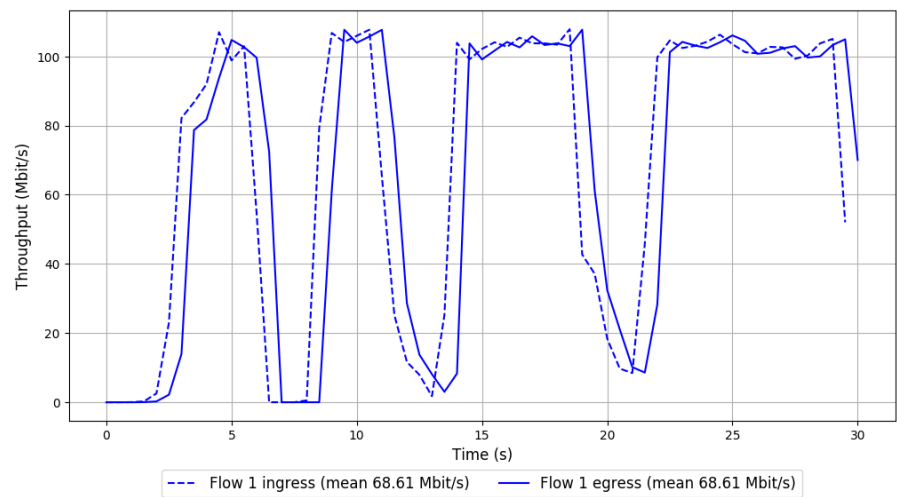
-- Flow 1:

Average throughput: 68.61 Mbit/s

95th percentile per-packet one-way delay: 85.976 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-03-08 21:57:43

End at: 2019-03-08 21:58:13

Local clock offset: 2.45 ms

Remote clock offset: 4.995 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 86.259 ms

Loss rate: 0.00%

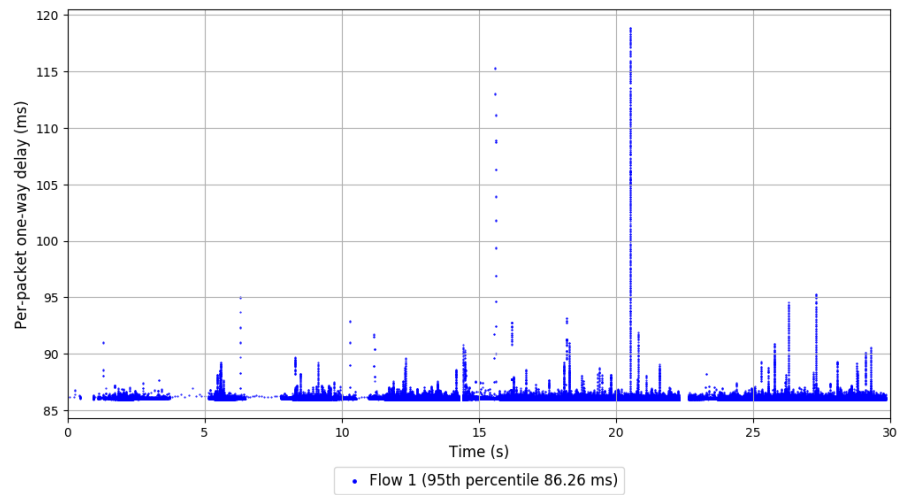
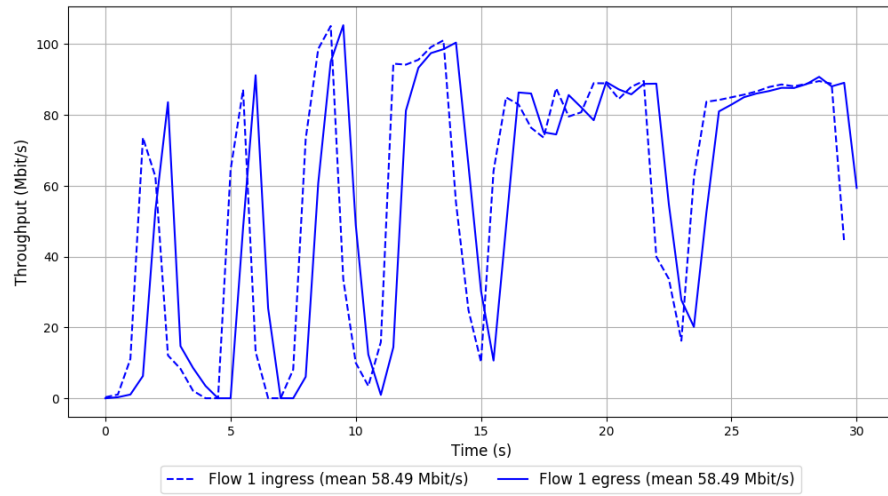
-- Flow 1:

Average throughput: 58.49 Mbit/s

95th percentile per-packet one-way delay: 86.259 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2019-03-08 19:58:52

End at: 2019-03-08 19:59:22

Local clock offset: 6.39 ms

Remote clock offset: 6.878 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.753 ms

Loss rate: 0.00%

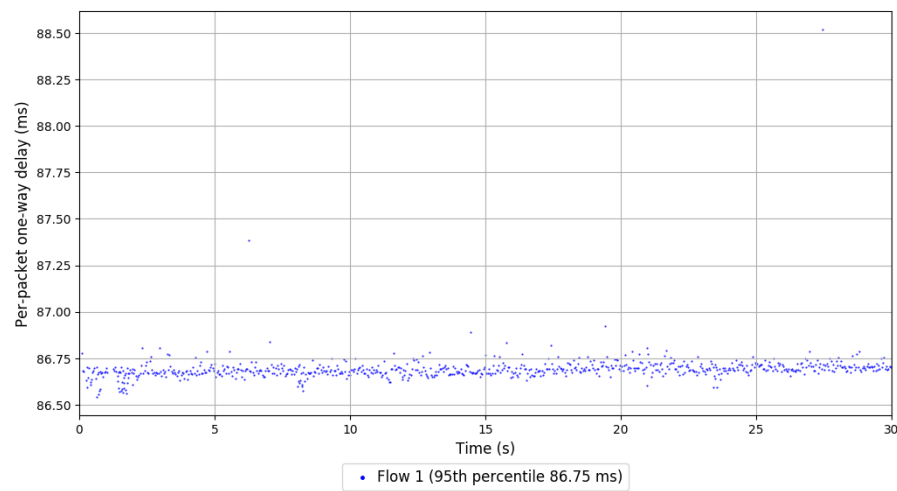
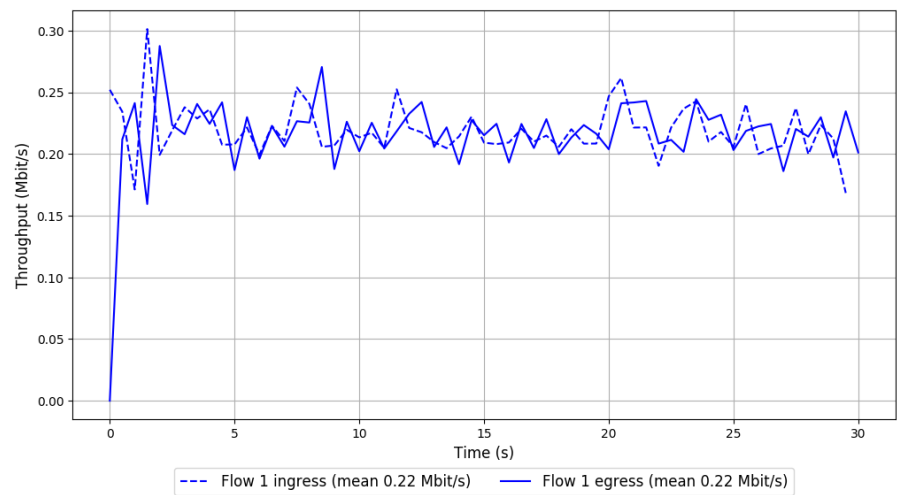
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.753 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

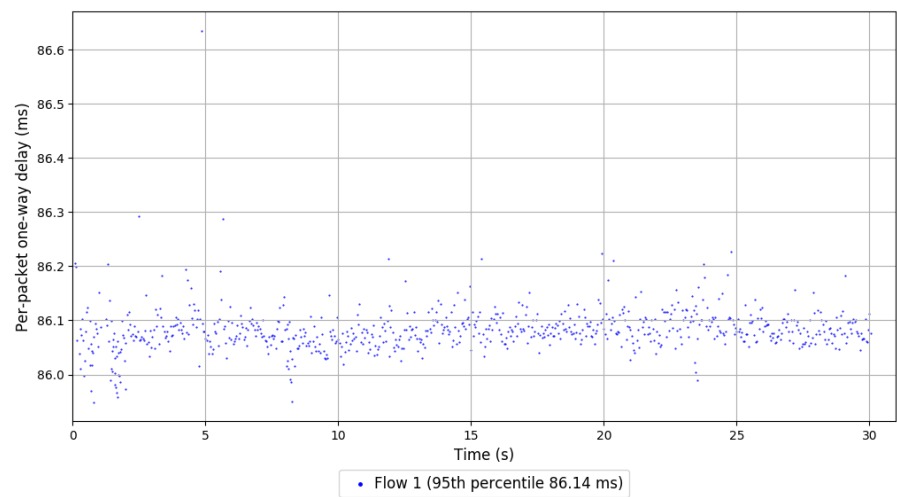
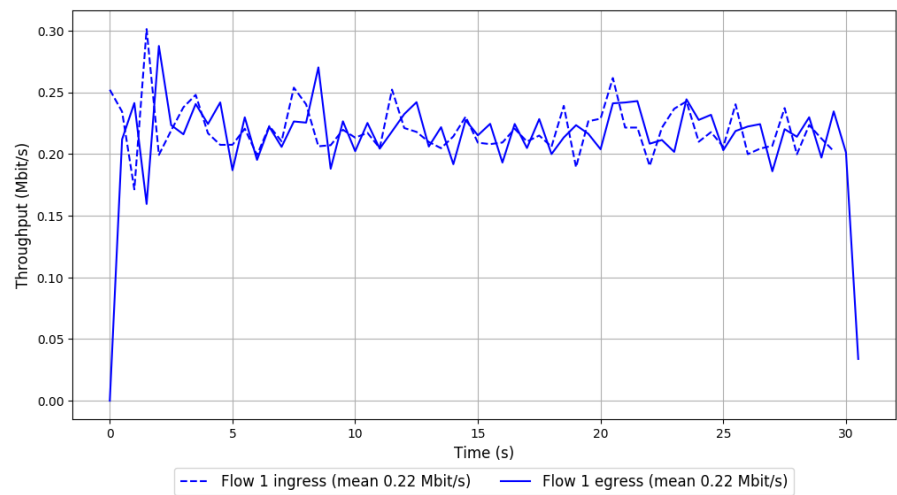


Run 2: Statistics of SCReAM

Start at: 2019-03-08 20:29:57
End at: 2019-03-08 20:30:27
Local clock offset: 11.985 ms
Remote clock offset: 11.244 ms

Below is generated by plot.py at 2019-03-08 23:57:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.139 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.139 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

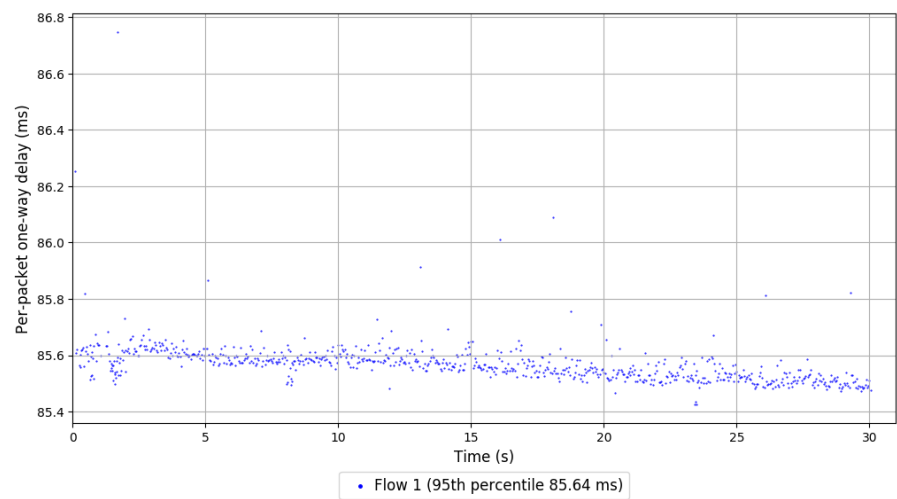
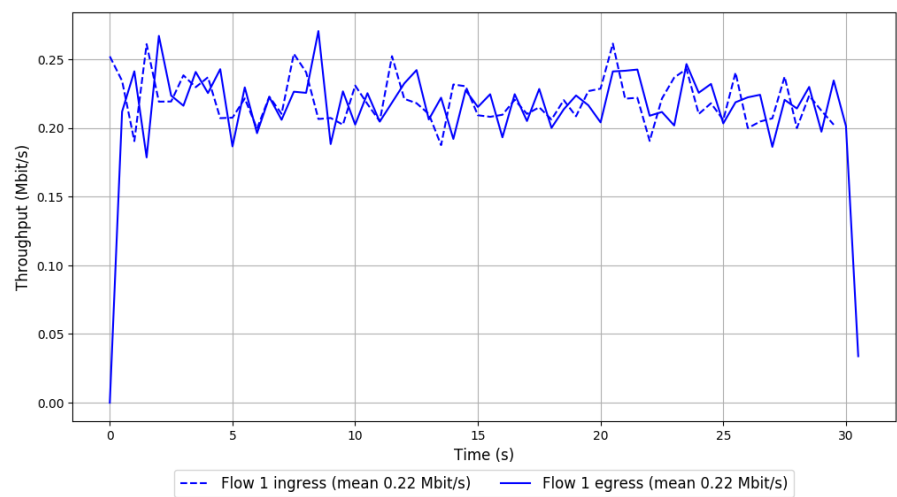


Run 3: Statistics of SCReAM

Start at: 2019-03-08 21:01:09
End at: 2019-03-08 21:01:39
Local clock offset: 11.188 ms
Remote clock offset: 11.185 ms

Below is generated by plot.py at 2019-03-08 23:57:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.643 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-03-08 21:32:24

End at: 2019-03-08 21:32:54

Local clock offset: 3.599 ms

Remote clock offset: 6.865 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.717 ms

Loss rate: 0.00%

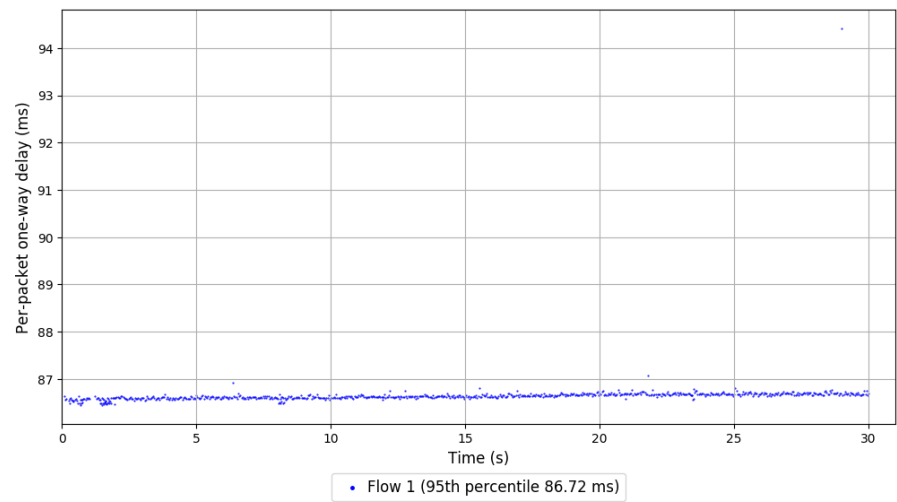
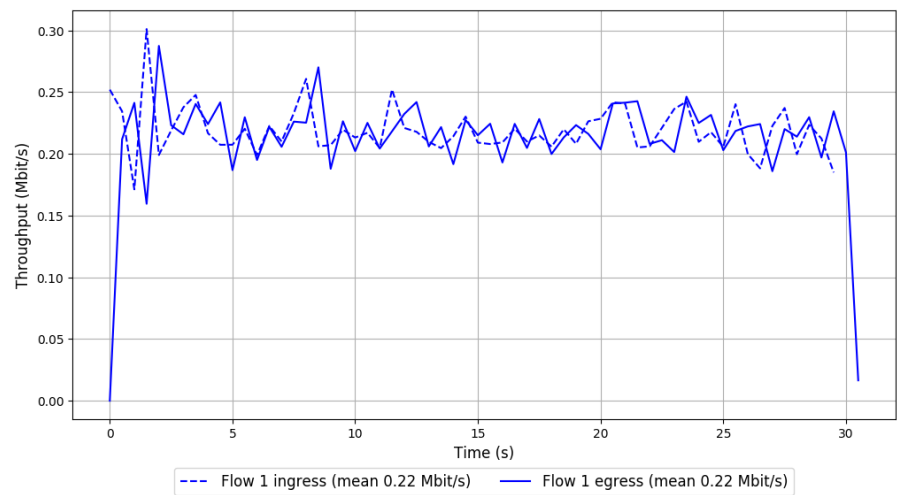
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.717 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-03-08 22:03:39

End at: 2019-03-08 22:04:09

Local clock offset: 2.155 ms

Remote clock offset: 4.177 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.314 ms

Loss rate: 0.00%

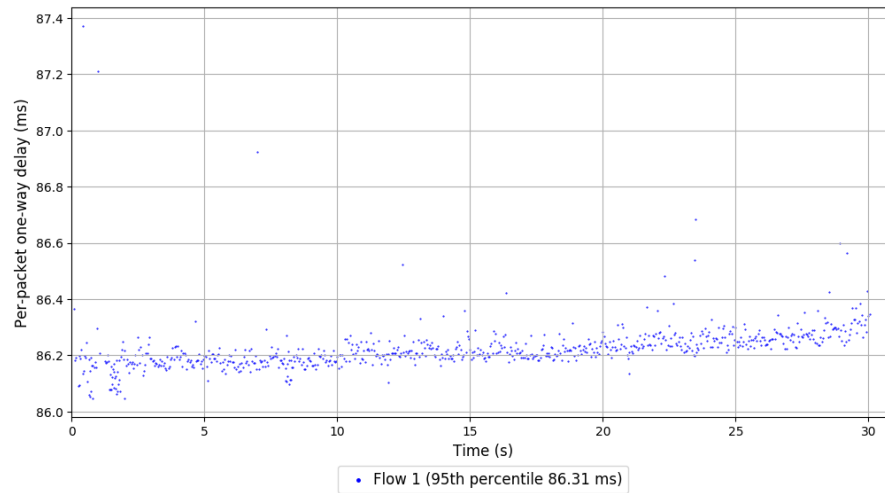
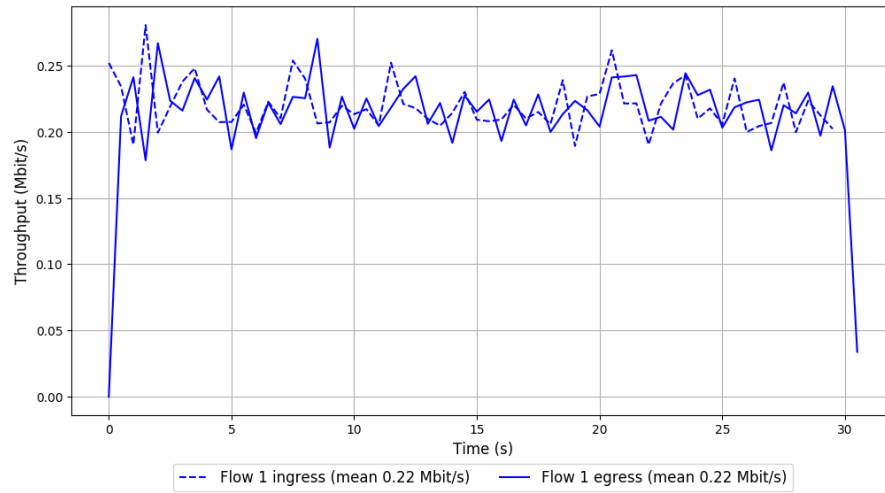
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.314 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-03-08 20:02:43

End at: 2019-03-08 20:03:14

Local clock offset: 9.607 ms

Remote clock offset: 8.885 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 86.488 ms

Loss rate: 0.00%

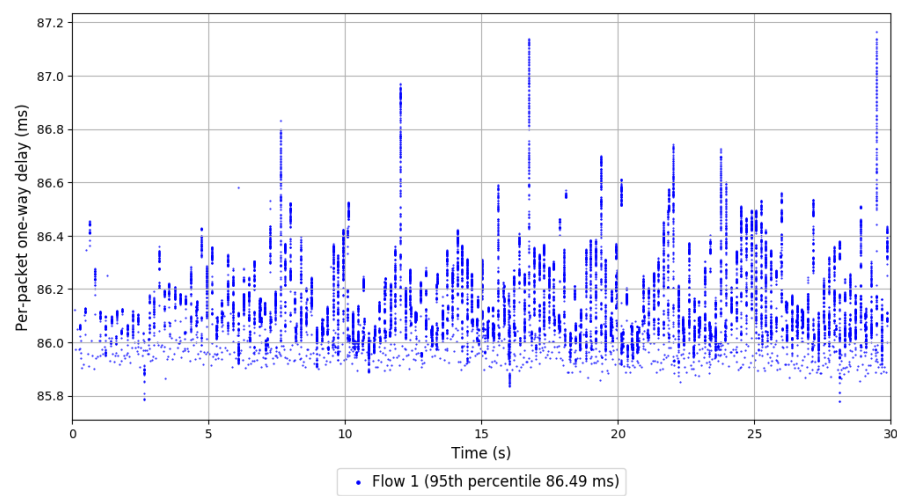
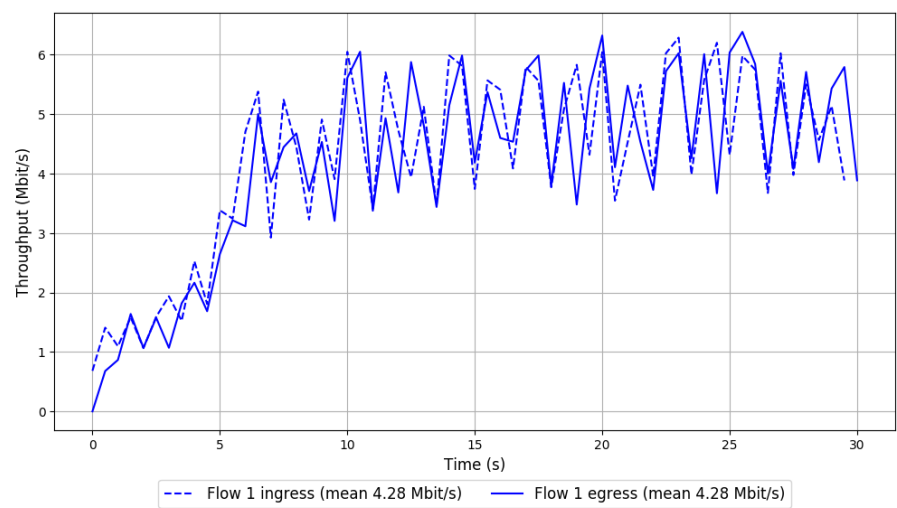
-- Flow 1:

Average throughput: 4.28 Mbit/s

95th percentile per-packet one-way delay: 86.488 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

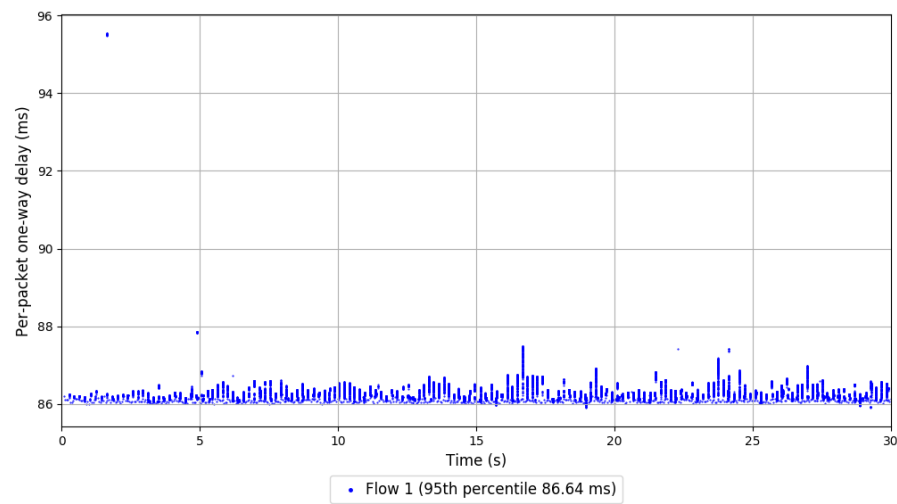
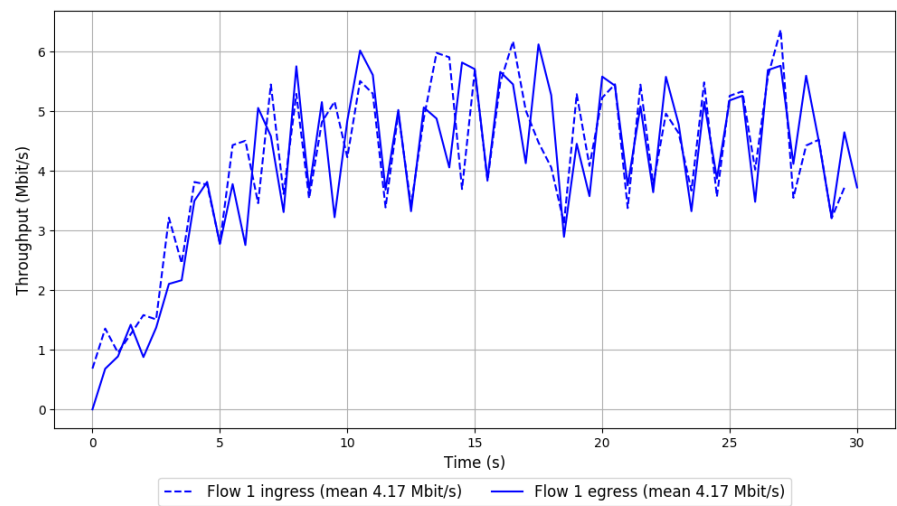


Run 2: Statistics of Sprout

Start at: 2019-03-08 20:33:47
End at: 2019-03-08 20:34:17
Local clock offset: 13.021 ms
Remote clock offset: 12.248 ms

Below is generated by plot.py at 2019-03-08 23:57:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 86.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 86.645 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-03-08 21:05:01

End at: 2019-03-08 21:05:31

Local clock offset: 8.403 ms

Remote clock offset: 9.308 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 86.353 ms

Loss rate: 0.00%

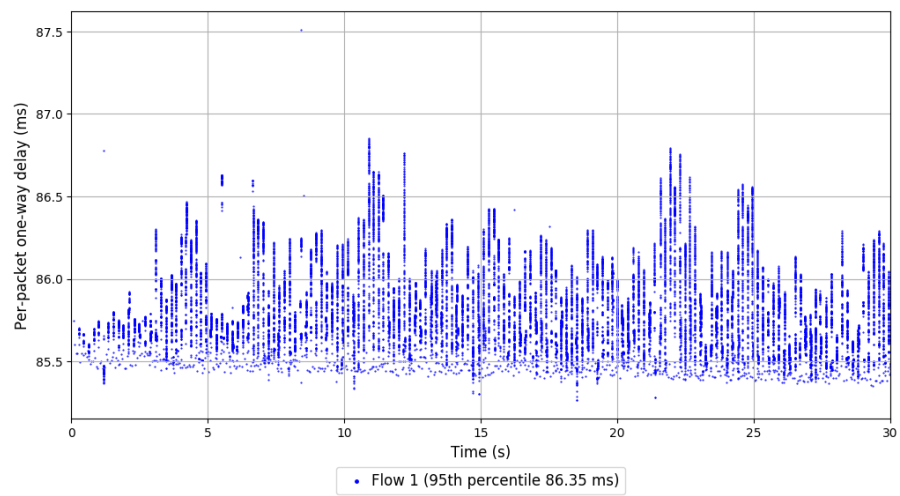
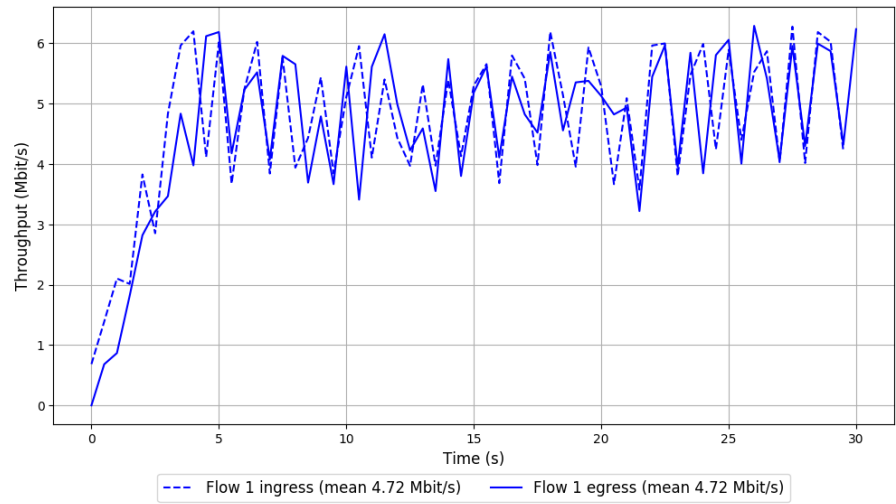
-- Flow 1:

Average throughput: 4.72 Mbit/s

95th percentile per-packet one-way delay: 86.353 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-03-08 21:36:20

End at: 2019-03-08 21:36:50

Local clock offset: 2.769 ms

Remote clock offset: 5.345 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 86.959 ms

Loss rate: 0.00%

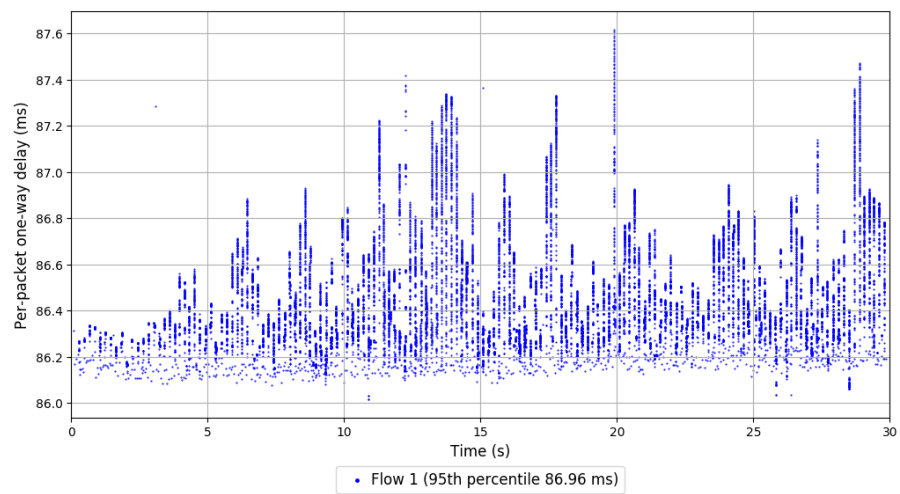
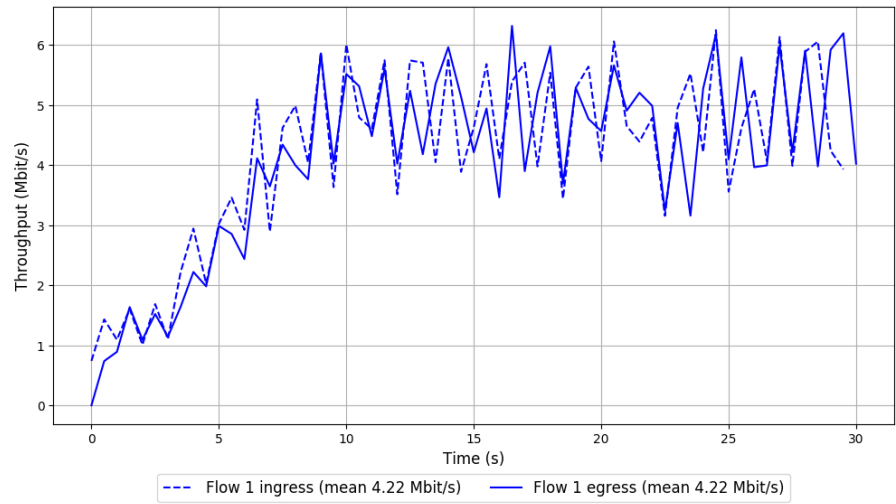
-- Flow 1:

Average throughput: 4.22 Mbit/s

95th percentile per-packet one-way delay: 86.959 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-03-08 22:07:29

End at: 2019-03-08 22:07:59

Local clock offset: 1.065 ms

Remote clock offset: 2.785 ms

Below is generated by plot.py at 2019-03-08 23:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 87.767 ms

Loss rate: 0.00%

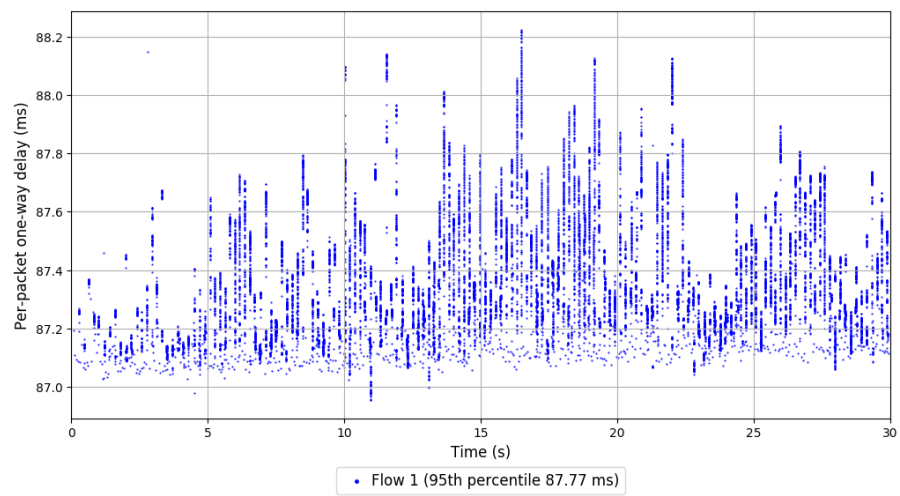
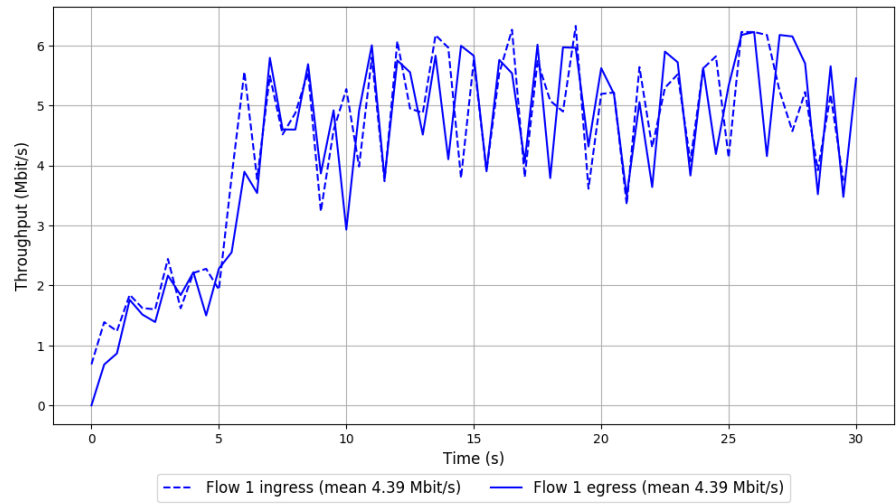
-- Flow 1:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 87.767 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

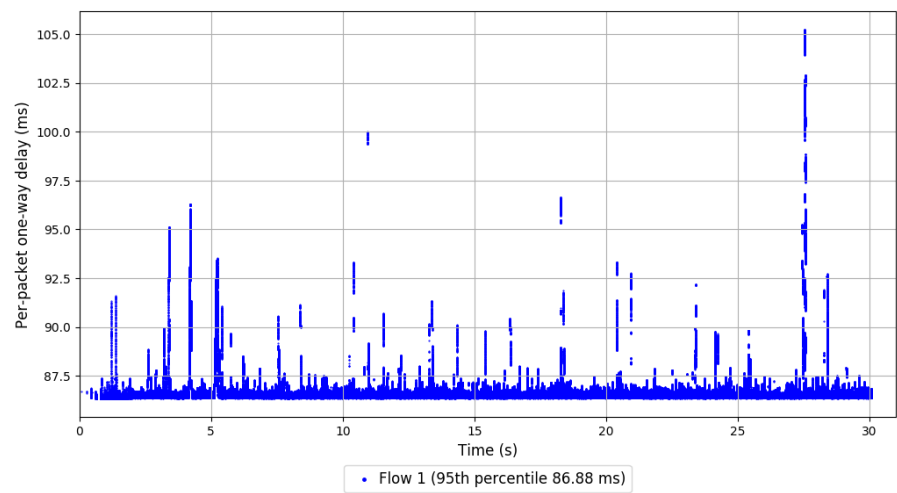
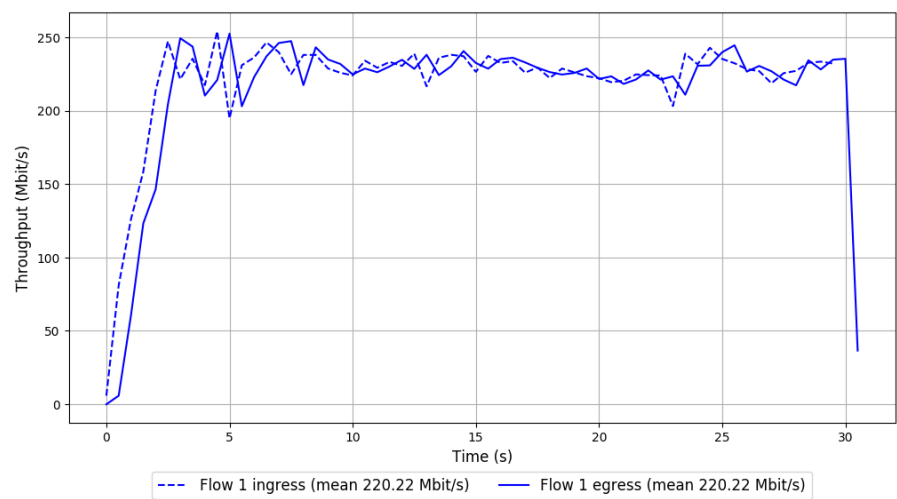



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-03-08 20:08:26
End at: 2019-03-08 20:08:56
Local clock offset: 8.059 ms
Remote clock offset: 7.897 ms

# Below is generated by plot.py at 2019-03-09 00:01:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.22 Mbit/s
95th percentile per-packet one-way delay: 86.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.22 Mbit/s
95th percentile per-packet one-way delay: 86.881 ms
Loss rate: 0.00%
```

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

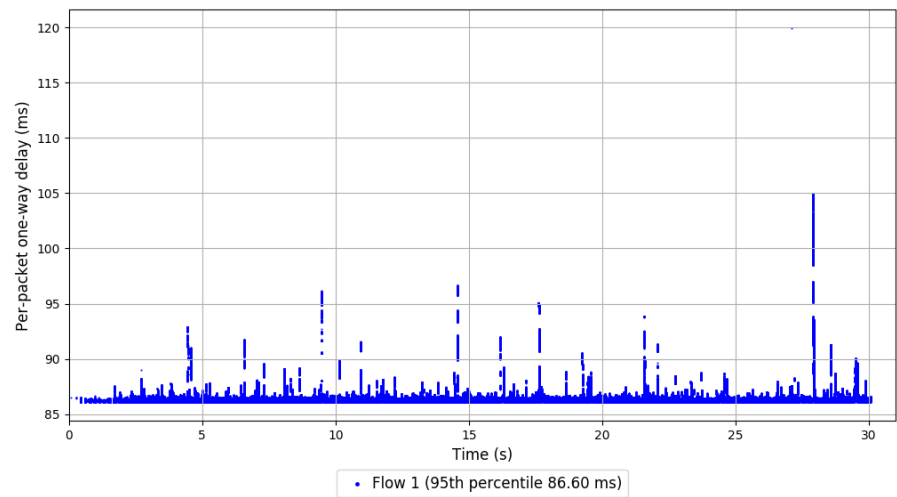
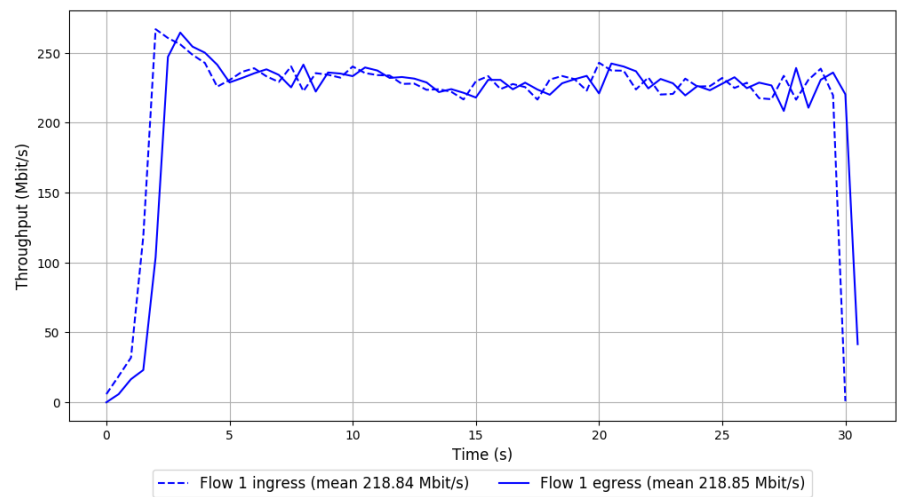


Run 2: Statistics of TaoVA-100x

Start at: 2019-03-08 20:39:30
End at: 2019-03-08 20:40:00
Local clock offset: 15.102 ms
Remote clock offset: 14.627 ms

Below is generated by plot.py at 2019-03-09 00:01:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.85 Mbit/s
95th percentile per-packet one-way delay: 86.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.85 Mbit/s
95th percentile per-packet one-way delay: 86.597 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-03-08 21:10:46

End at: 2019-03-08 21:11:16

Local clock offset: 5.742 ms

Remote clock offset: 8.481 ms

Below is generated by plot.py at 2019-03-09 00:01:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.06 Mbit/s

95th percentile per-packet one-way delay: 86.715 ms

Loss rate: 0.00%

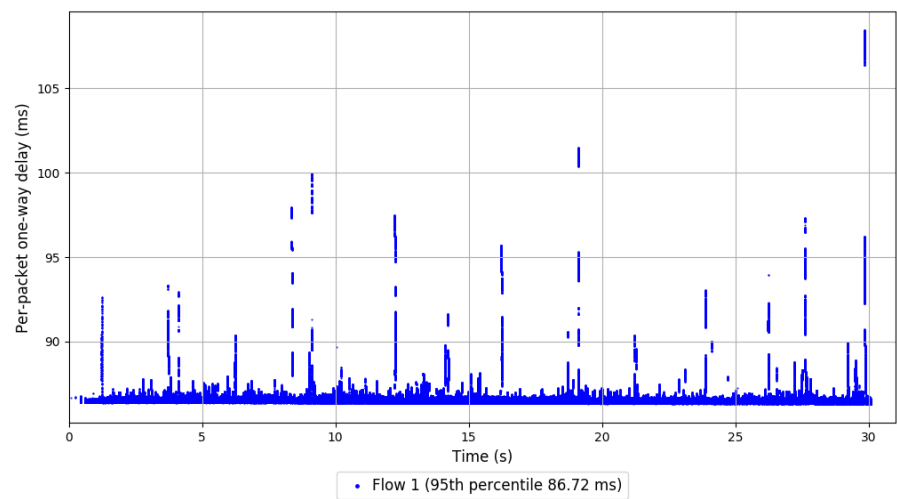
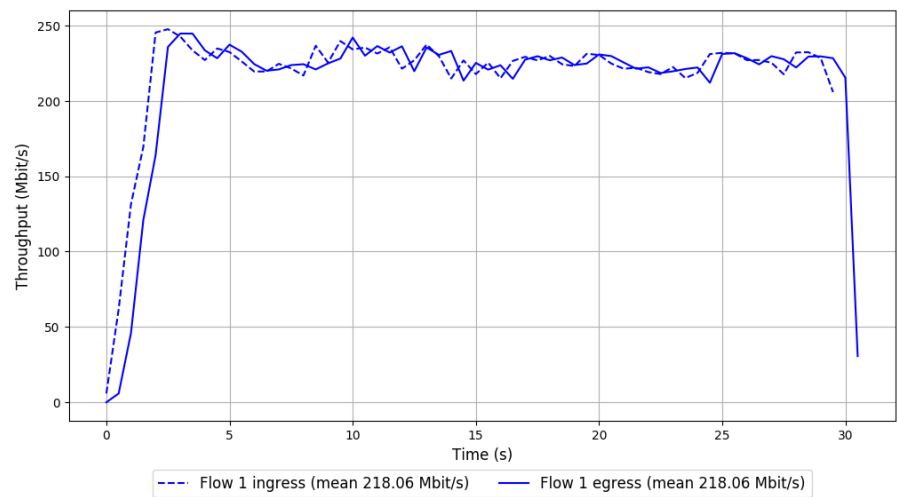
-- Flow 1:

Average throughput: 218.06 Mbit/s

95th percentile per-packet one-way delay: 86.715 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-03-08 21:42:03

End at: 2019-03-08 21:42:33

Local clock offset: 2.541 ms

Remote clock offset: 4.278 ms

Below is generated by plot.py at 2019-03-09 00:01:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.97 Mbit/s

95th percentile per-packet one-way delay: 86.429 ms

Loss rate: 0.00%

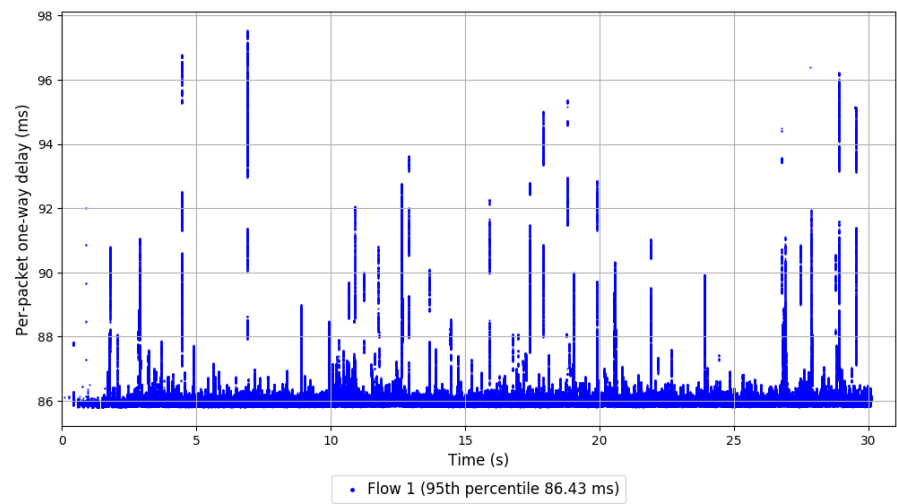
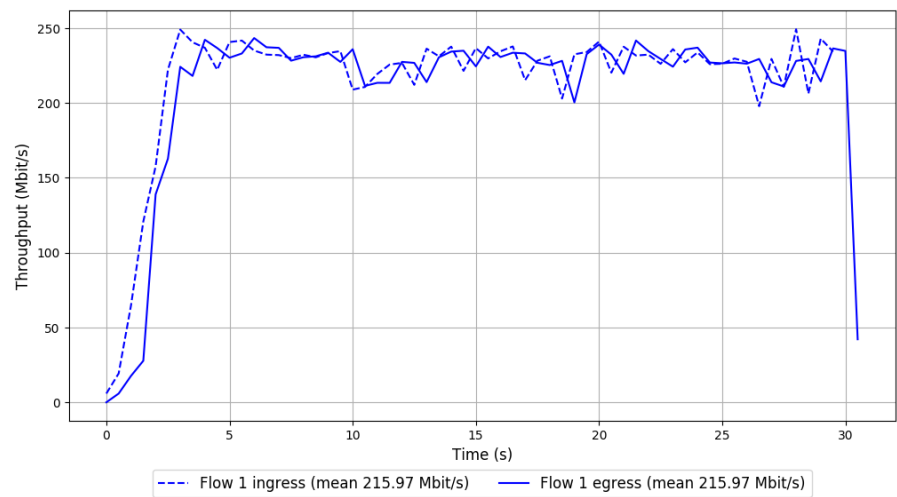
-- Flow 1:

Average throughput: 215.97 Mbit/s

95th percentile per-packet one-way delay: 86.429 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-03-08 22:13:13

End at: 2019-03-08 22:13:43

Local clock offset: 1.255 ms

Remote clock offset: 1.677 ms

Below is generated by plot.py at 2019-03-09 00:02:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.48 Mbit/s

95th percentile per-packet one-way delay: 86.028 ms

Loss rate: 0.00%

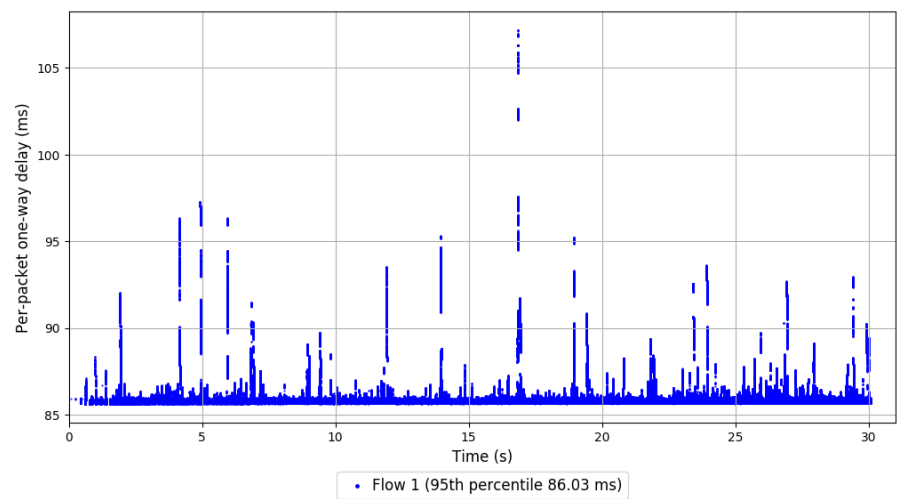
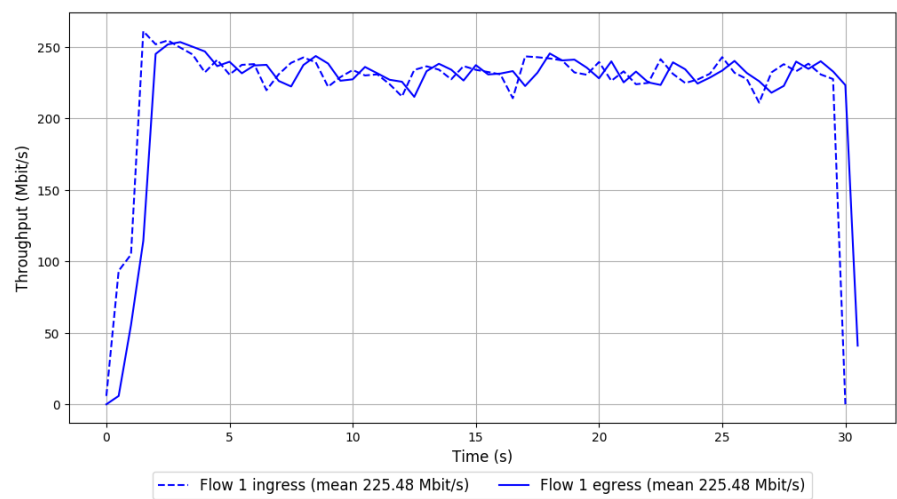
-- Flow 1:

Average throughput: 225.48 Mbit/s

95th percentile per-packet one-way delay: 86.028 ms

Loss rate: 0.00%

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

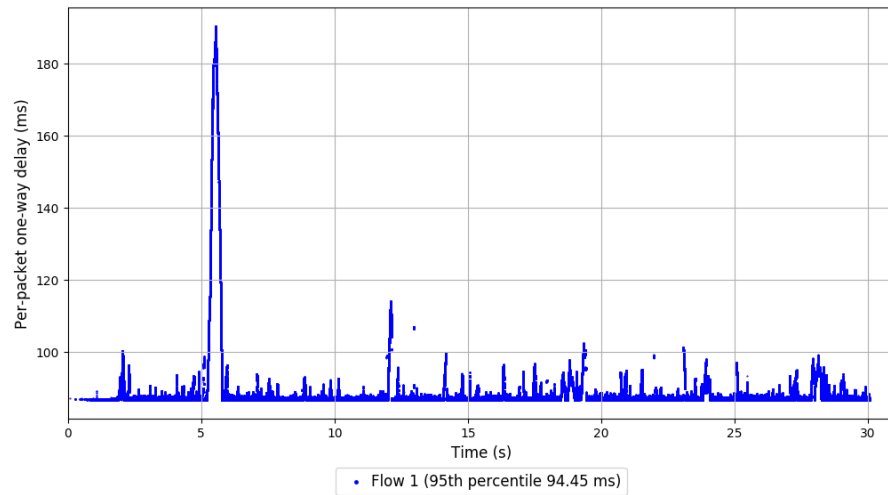
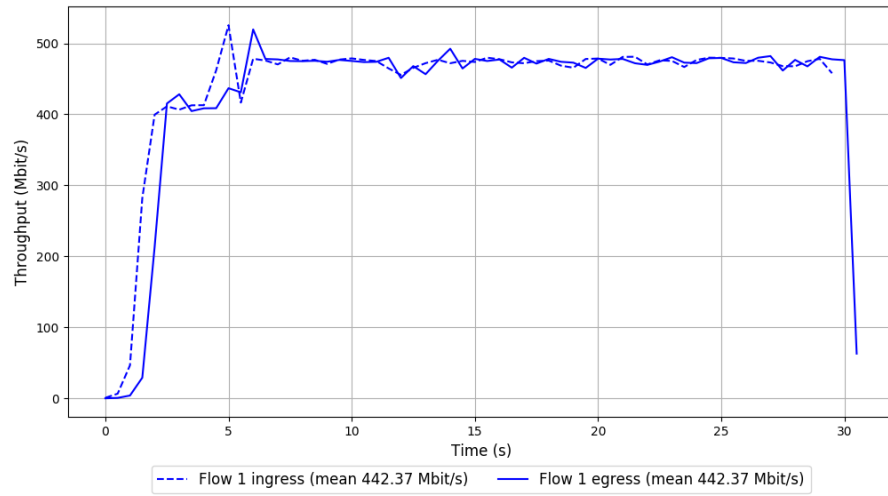


Run 1: Statistics of TCP Vegas

Start at: 2019-03-08 20:12:48
End at: 2019-03-08 20:13:18
Local clock offset: 10.422 ms
Remote clock offset: 10.361 ms

Below is generated by plot.py at 2019-03-09 00:03:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 442.37 Mbit/s
95th percentile per-packet one-way delay: 94.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 442.37 Mbit/s
95th percentile per-packet one-way delay: 94.450 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

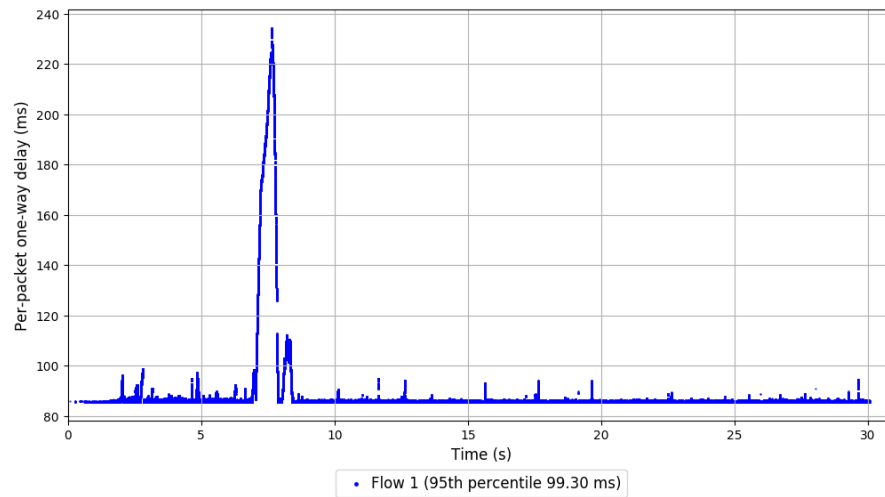
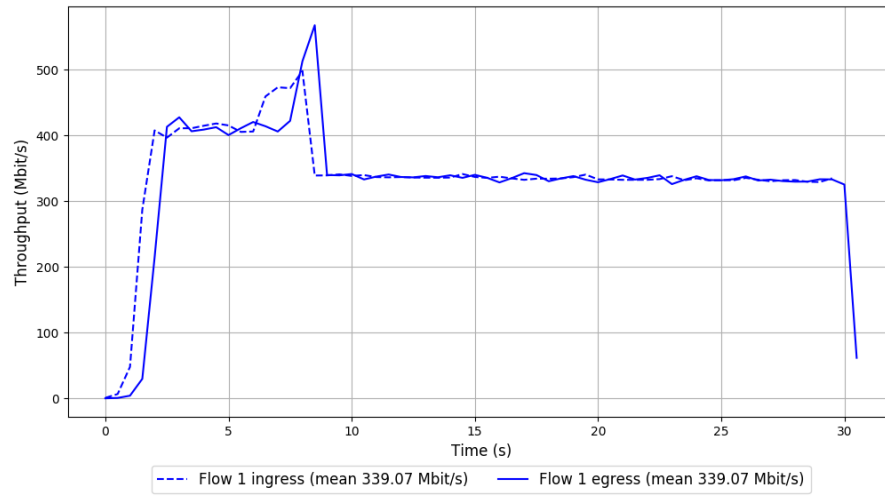


Run 2: Statistics of TCP Vegas

Start at: 2019-03-08 20:44:02
End at: 2019-03-08 20:44:32
Local clock offset: 18.233 ms
Remote clock offset: 16.994 ms

Below is generated by plot.py at 2019-03-09 00:04:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 339.07 Mbit/s
95th percentile per-packet one-way delay: 99.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 339.07 Mbit/s
95th percentile per-packet one-way delay: 99.296 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

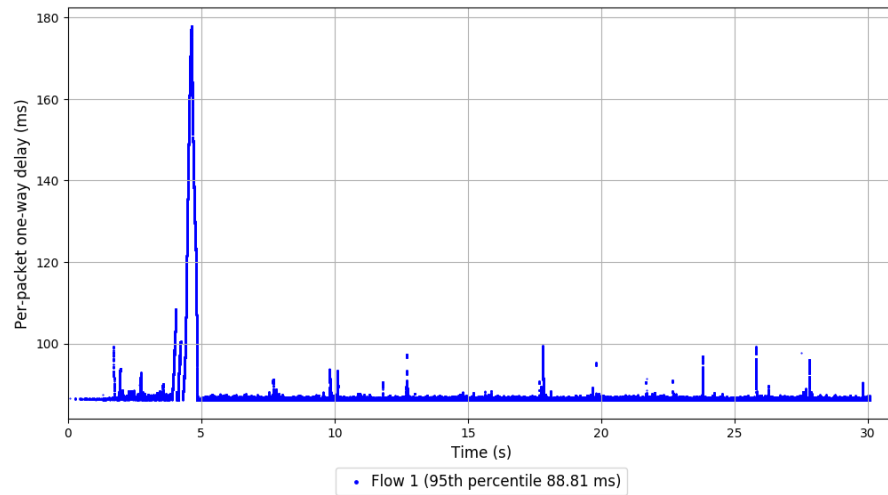
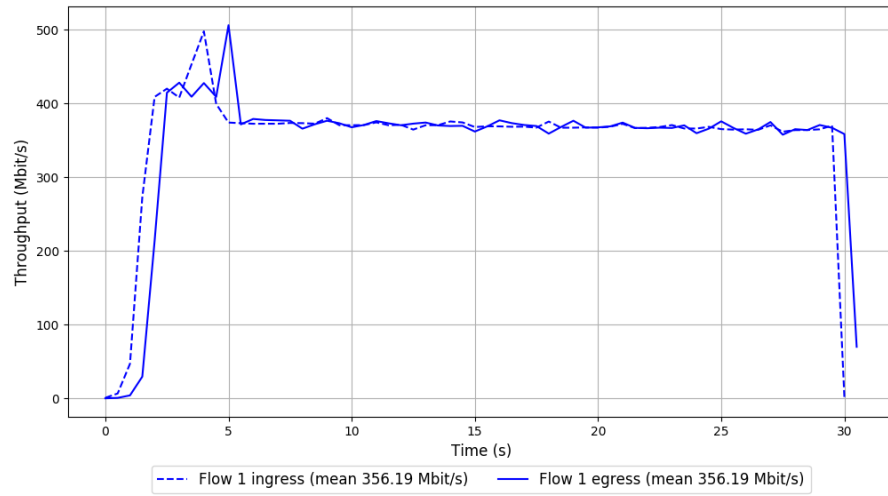


Run 3: Statistics of TCP Vegas

Start at: 2019-03-08 21:15:12
End at: 2019-03-08 21:15:42
Local clock offset: 5.424 ms
Remote clock offset: 8.76 ms

Below is generated by plot.py at 2019-03-09 00:04:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 356.19 Mbit/s
95th percentile per-packet one-way delay: 88.813 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 356.19 Mbit/s
95th percentile per-packet one-way delay: 88.813 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-03-08 21:46:28

End at: 2019-03-08 21:46:58

Local clock offset: 1.812 ms

Remote clock offset: 4.09 ms

Below is generated by plot.py at 2019-03-09 00:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.70 Mbit/s

95th percentile per-packet one-way delay: 91.903 ms

Loss rate: 0.00%

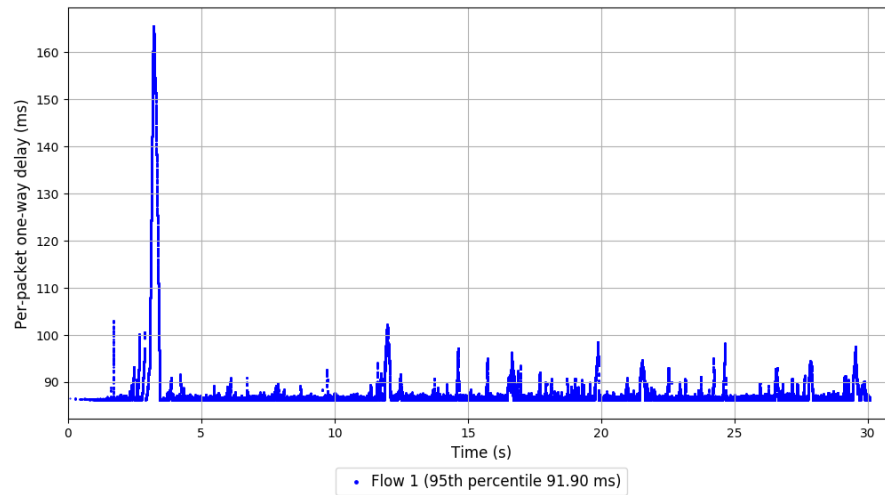
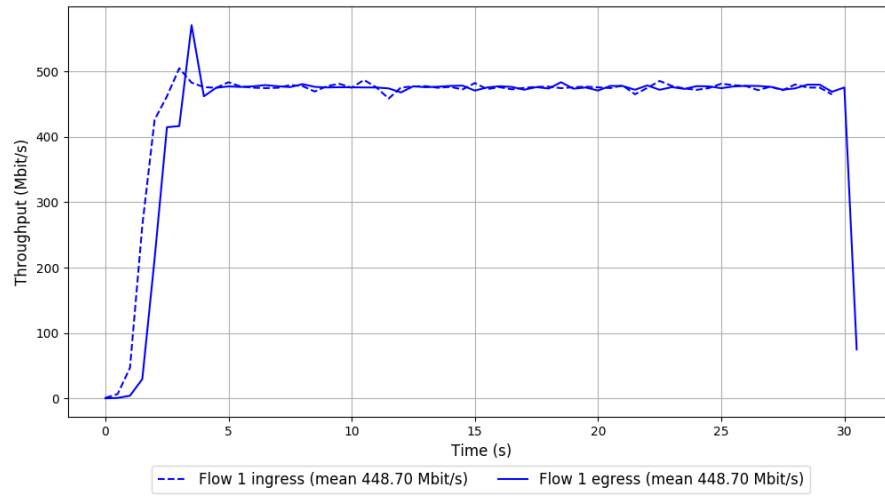
-- Flow 1:

Average throughput: 448.70 Mbit/s

95th percentile per-packet one-way delay: 91.903 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-03-08 22:17:47

End at: 2019-03-08 22:18:17

Local clock offset: 0.619 ms

Remote clock offset: 1.272 ms

Below is generated by plot.py at 2019-03-09 00:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.95 Mbit/s

95th percentile per-packet one-way delay: 89.166 ms

Loss rate: 0.00%

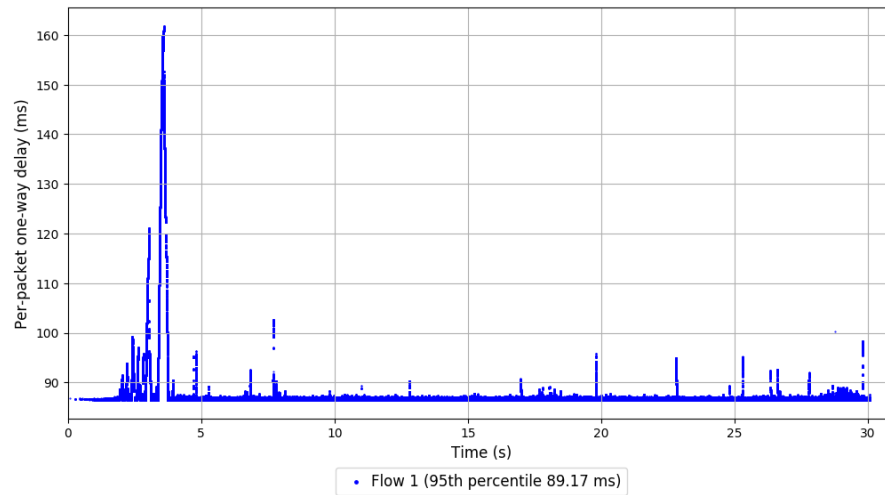
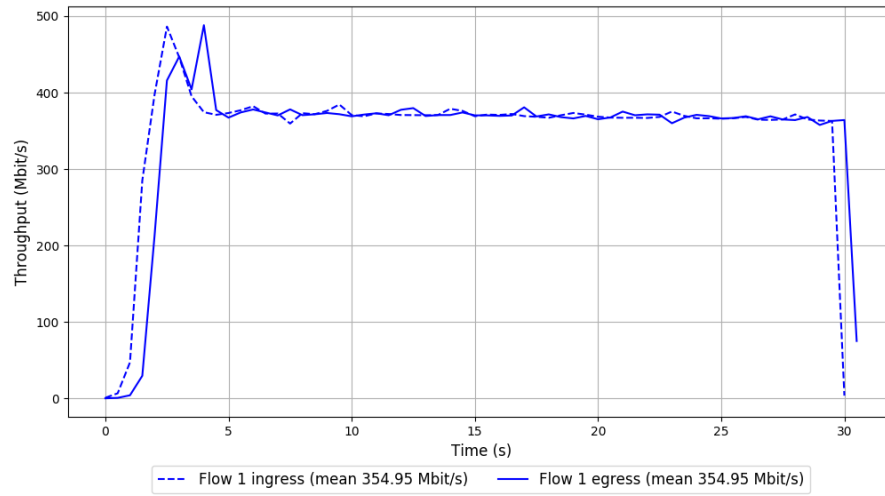
-- Flow 1:

Average throughput: 354.95 Mbit/s

95th percentile per-packet one-way delay: 89.166 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-08 20:09:57

End at: 2019-03-08 20:10:27

Local clock offset: 8.907 ms

Remote clock offset: 8.527 ms

Below is generated by plot.py at 2019-03-09 00:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.07 Mbit/s

95th percentile per-packet one-way delay: 221.814 ms

Loss rate: 1.96%

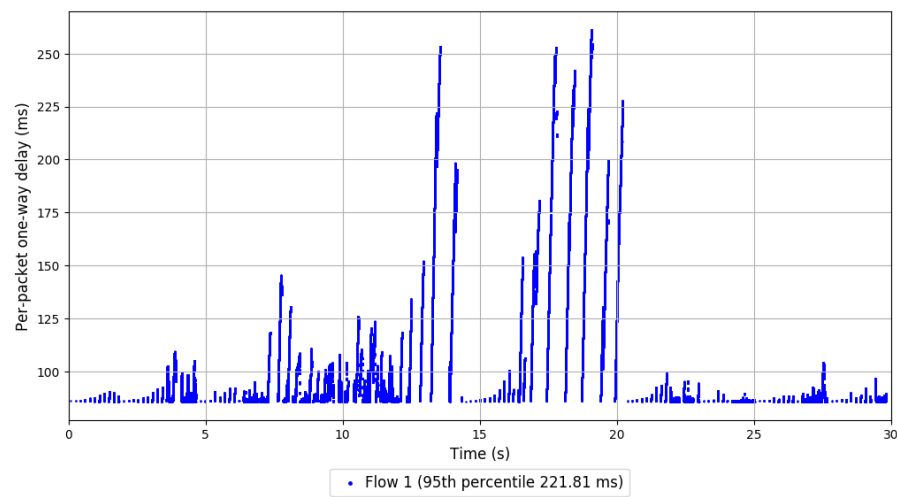
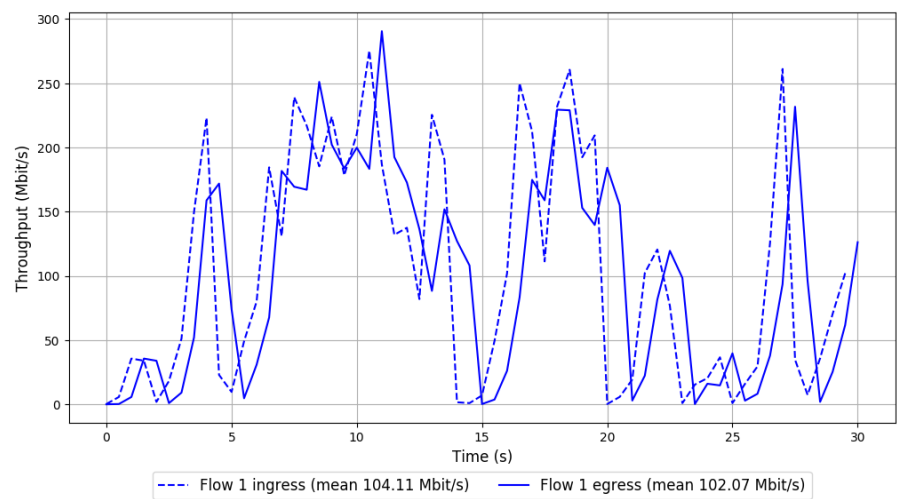
-- Flow 1:

Average throughput: 102.07 Mbit/s

95th percentile per-packet one-way delay: 221.814 ms

Loss rate: 1.96%

Run 1: Report of Verus — Data Link

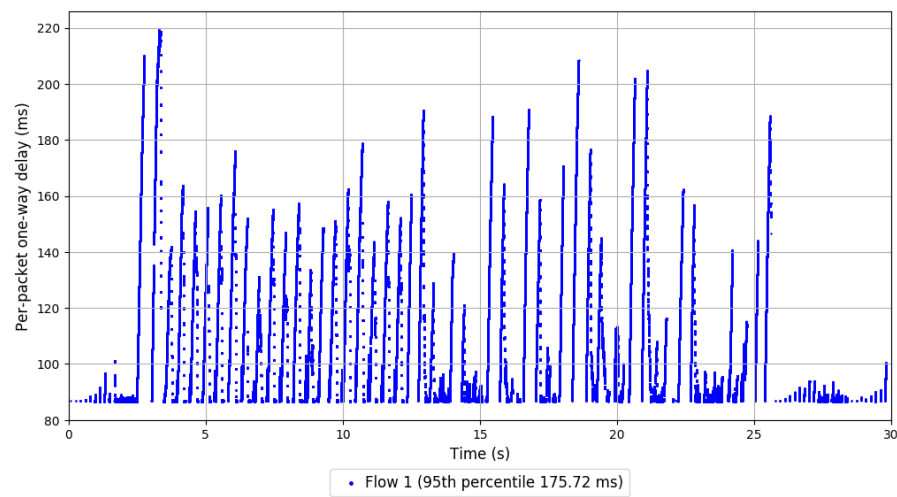
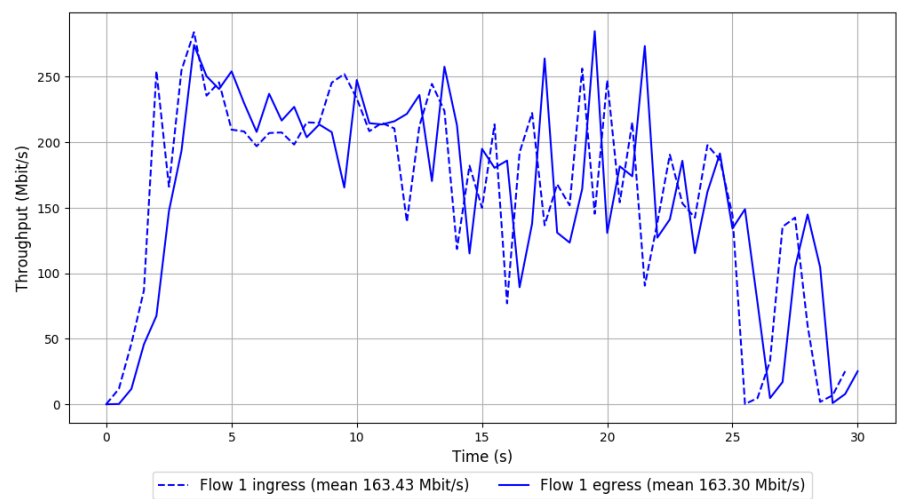


Run 2: Statistics of Verus

Start at: 2019-03-08 20:41:00
End at: 2019-03-08 20:41:30
Local clock offset: 16.037 ms
Remote clock offset: 15.5 ms

Below is generated by plot.py at 2019-03-09 00:10:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 163.30 Mbit/s
95th percentile per-packet one-way delay: 175.715 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 163.30 Mbit/s
95th percentile per-packet one-way delay: 175.715 ms
Loss rate: 0.04%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-03-08 21:12:16

End at: 2019-03-08 21:12:46

Local clock offset: 5.707 ms

Remote clock offset: 8.47 ms

Below is generated by plot.py at 2019-03-09 00:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.52 Mbit/s

95th percentile per-packet one-way delay: 228.248 ms

Loss rate: 4.63%

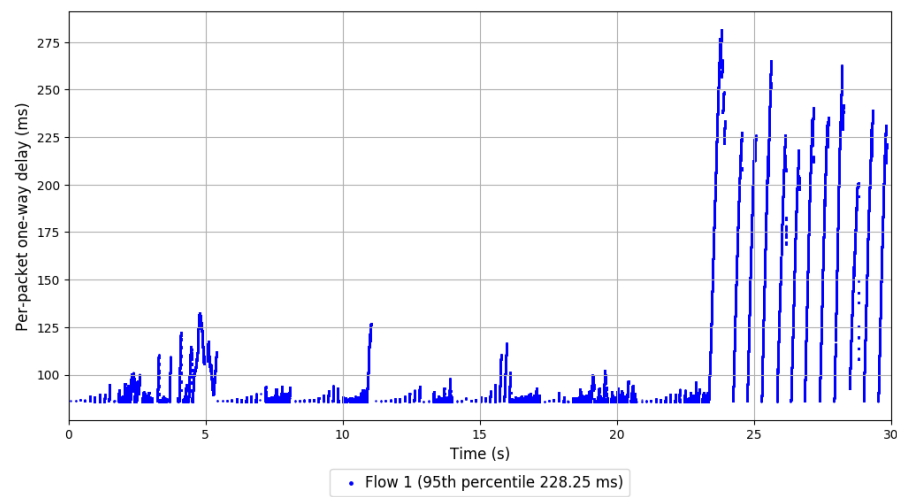
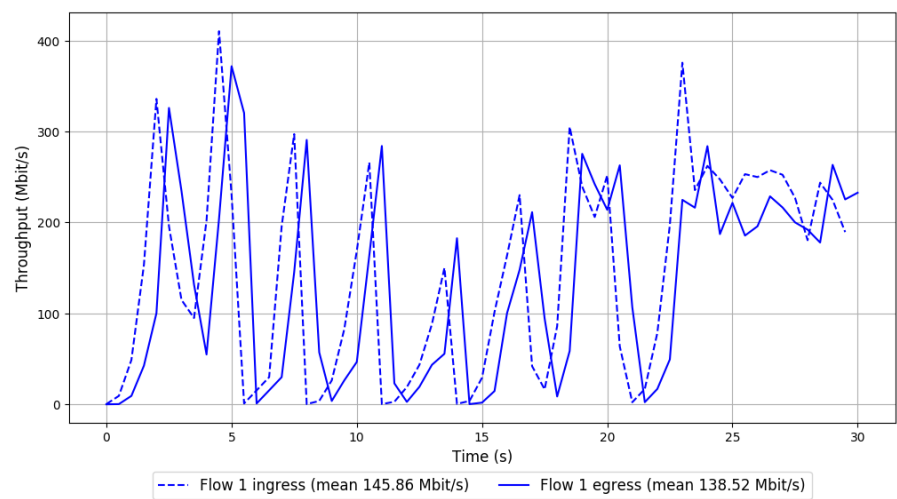
-- Flow 1:

Average throughput: 138.52 Mbit/s

95th percentile per-packet one-way delay: 228.248 ms

Loss rate: 4.63%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-03-08 21:43:33

End at: 2019-03-08 21:44:03

Local clock offset: 1.831 ms

Remote clock offset: 4.171 ms

Below is generated by plot.py at 2019-03-09 00:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.88 Mbit/s

95th percentile per-packet one-way delay: 244.359 ms

Loss rate: 6.41%

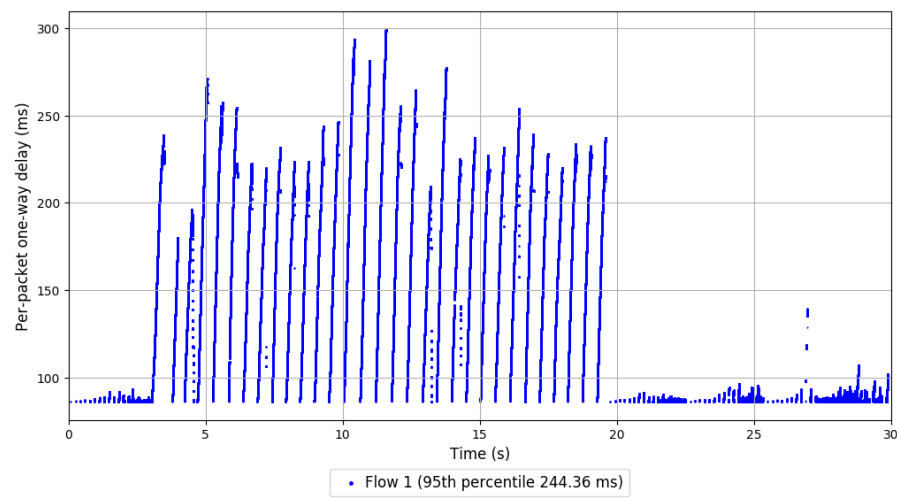
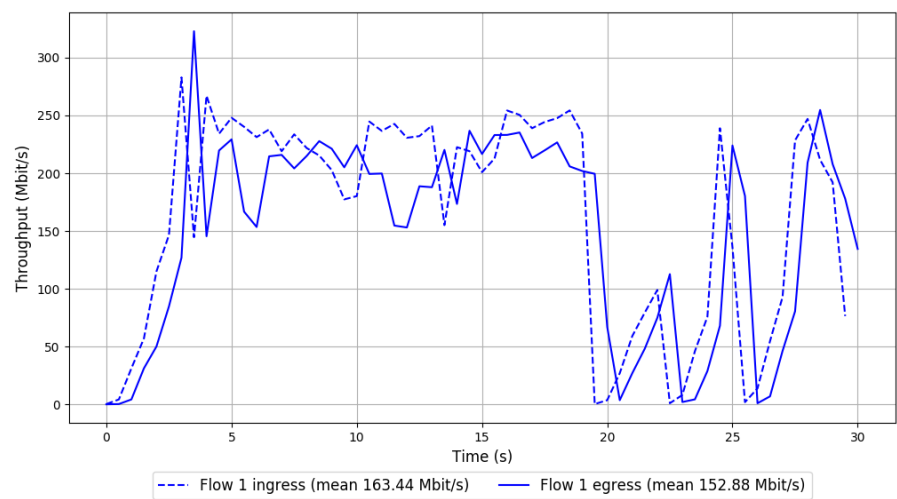
-- Flow 1:

Average throughput: 152.88 Mbit/s

95th percentile per-packet one-way delay: 244.359 ms

Loss rate: 6.41%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-03-08 22:14:44

End at: 2019-03-08 22:15:14

Local clock offset: 1.394 ms

Remote clock offset: 1.497 ms

Below is generated by plot.py at 2019-03-09 00:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.13 Mbit/s

95th percentile per-packet one-way delay: 193.319 ms

Loss rate: 1.55%

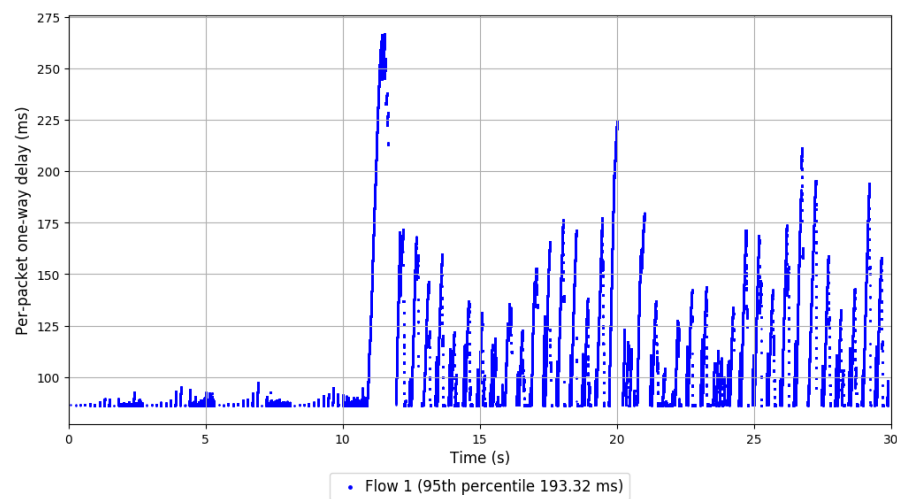
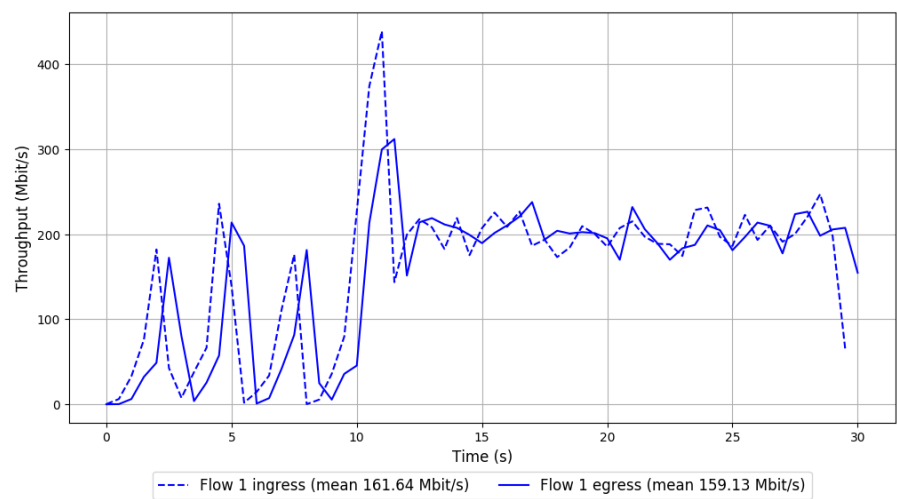
-- Flow 1:

Average throughput: 159.13 Mbit/s

95th percentile per-packet one-way delay: 193.319 ms

Loss rate: 1.55%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-03-08 19:55:41

End at: 2019-03-08 19:56:11

Local clock offset: 5.565 ms

Remote clock offset: 4.976 ms

Below is generated by plot.py at 2019-03-09 00:11:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.78 Mbit/s

95th percentile per-packet one-way delay: 108.233 ms

Loss rate: 0.00%

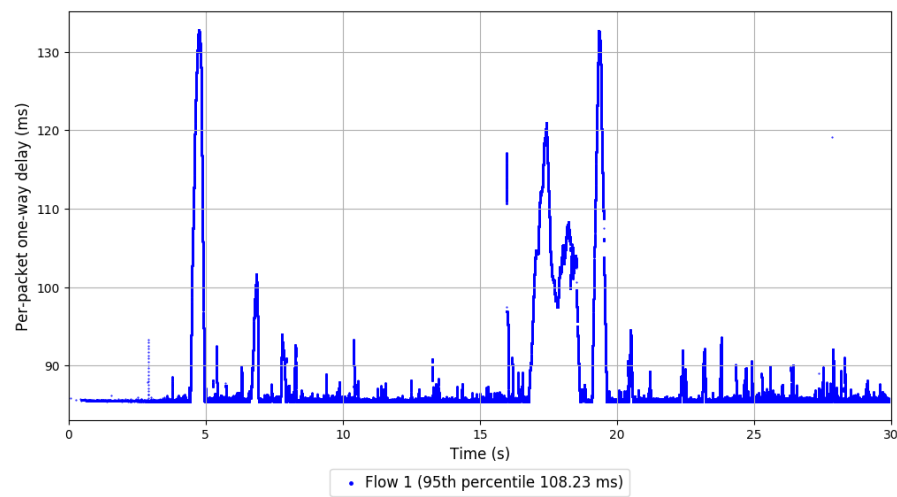
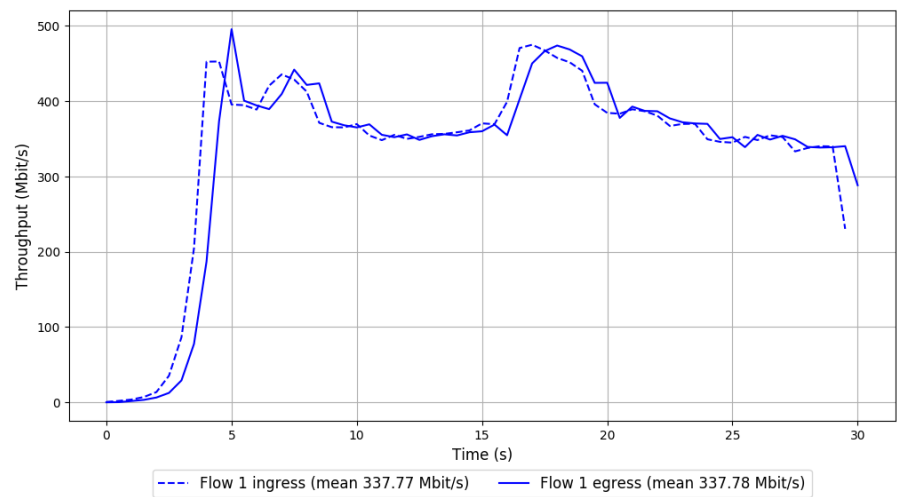
-- Flow 1:

Average throughput: 337.78 Mbit/s

95th percentile per-packet one-way delay: 108.233 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

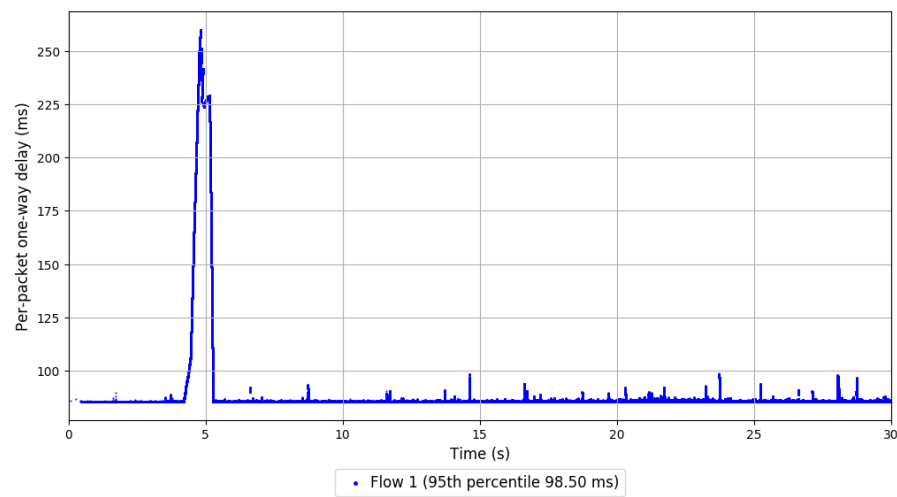
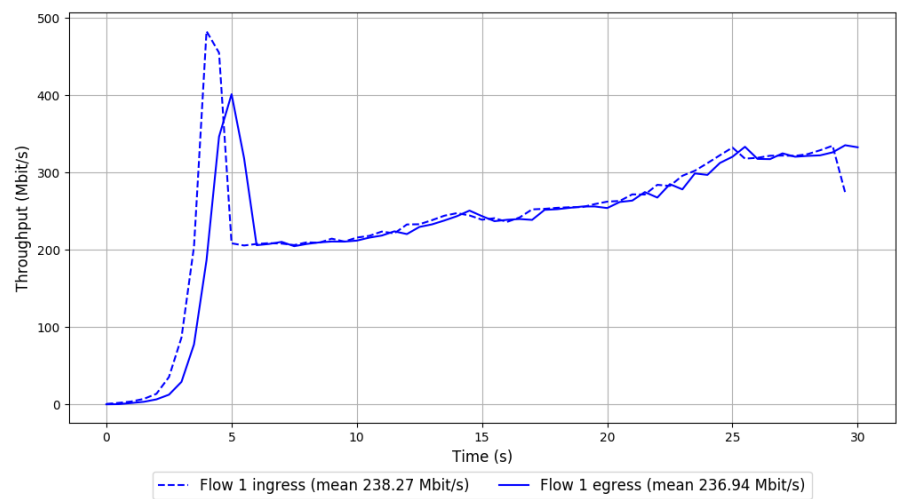


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-08 20:26:53
End at: 2019-03-08 20:27:23
Local clock offset: 12.111 ms
Remote clock offset: 10.993 ms

Below is generated by plot.py at 2019-03-09 00:11:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 236.94 Mbit/s
95th percentile per-packet one-way delay: 98.495 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 236.94 Mbit/s
95th percentile per-packet one-way delay: 98.495 ms
Loss rate: 0.56%

Run 2: Report of PCC-Vivace — Data Link

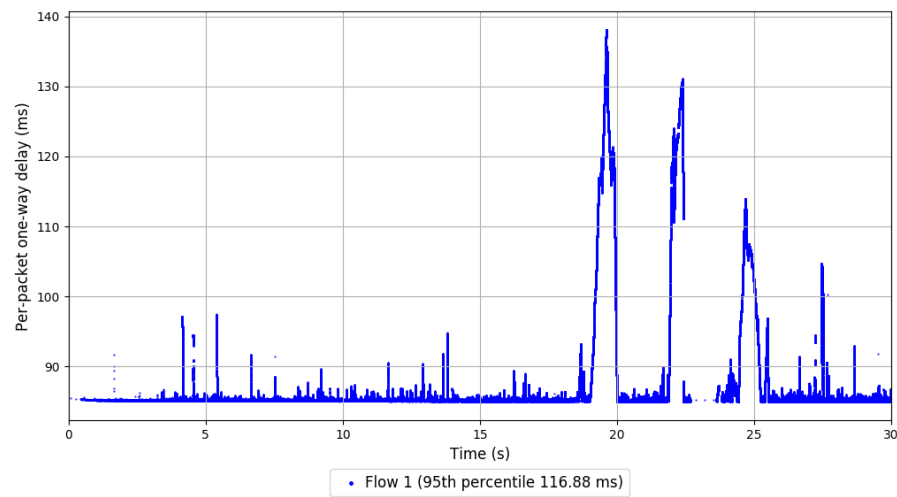
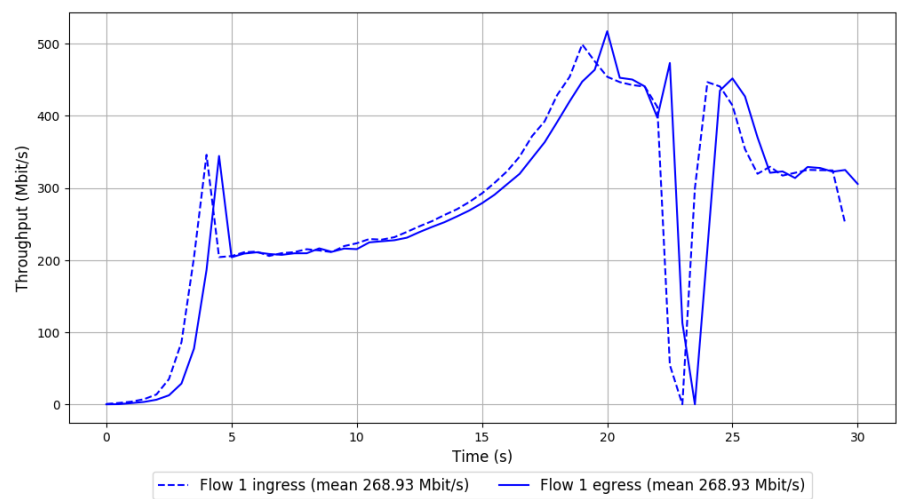


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-08 20:58:00
End at: 2019-03-08 20:58:30
Local clock offset: 15.039 ms
Remote clock offset: 13.947 ms

Below is generated by plot.py at 2019-03-09 00:11:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 268.93 Mbit/s
95th percentile per-packet one-way delay: 116.875 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 268.93 Mbit/s
95th percentile per-packet one-way delay: 116.875 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-03-08 21:29:17

End at: 2019-03-08 21:29:47

Local clock offset: 5.075 ms

Remote clock offset: 9.187 ms

Below is generated by plot.py at 2019-03-09 00:11:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.96 Mbit/s

95th percentile per-packet one-way delay: 104.874 ms

Loss rate: 0.00%

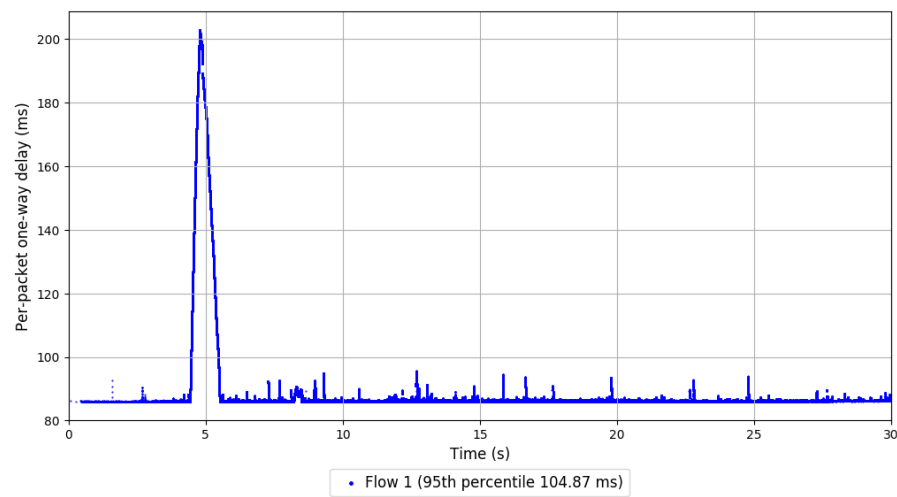
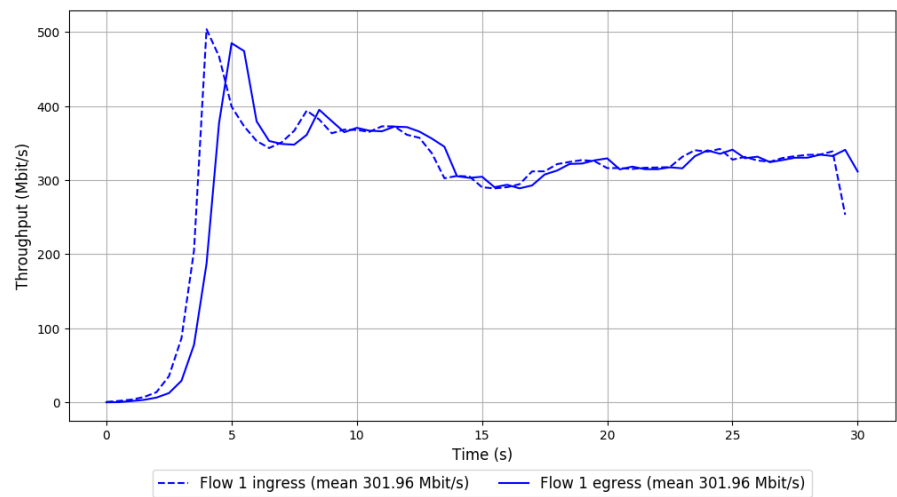
-- Flow 1:

Average throughput: 301.96 Mbit/s

95th percentile per-packet one-way delay: 104.874 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-03-08 22:00:34

End at: 2019-03-08 22:01:04

Local clock offset: 2.53 ms

Remote clock offset: 5.342 ms

Below is generated by plot.py at 2019-03-09 00:11:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.37 Mbit/s

95th percentile per-packet one-way delay: 86.585 ms

Loss rate: 0.00%

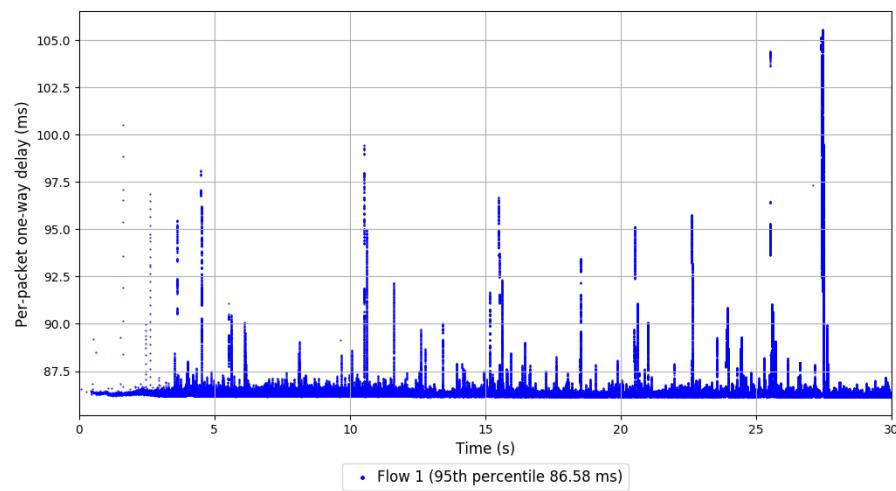
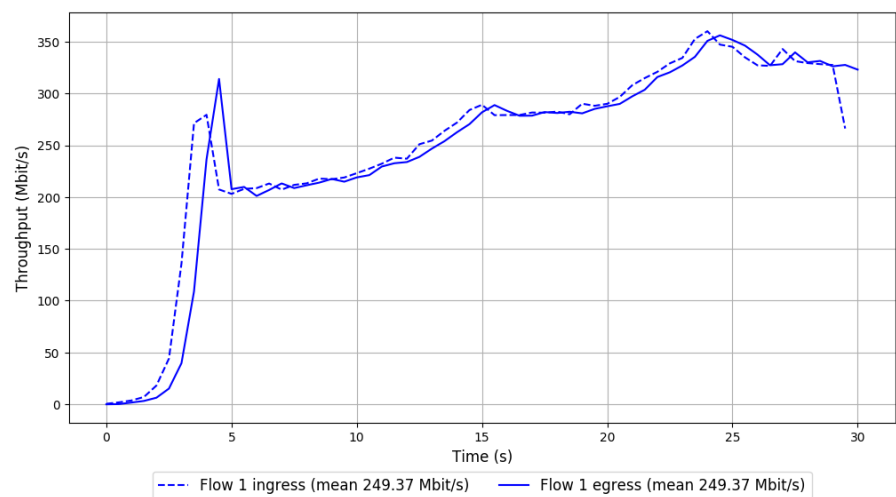
-- Flow 1:

Average throughput: 249.37 Mbit/s

95th percentile per-packet one-way delay: 86.585 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

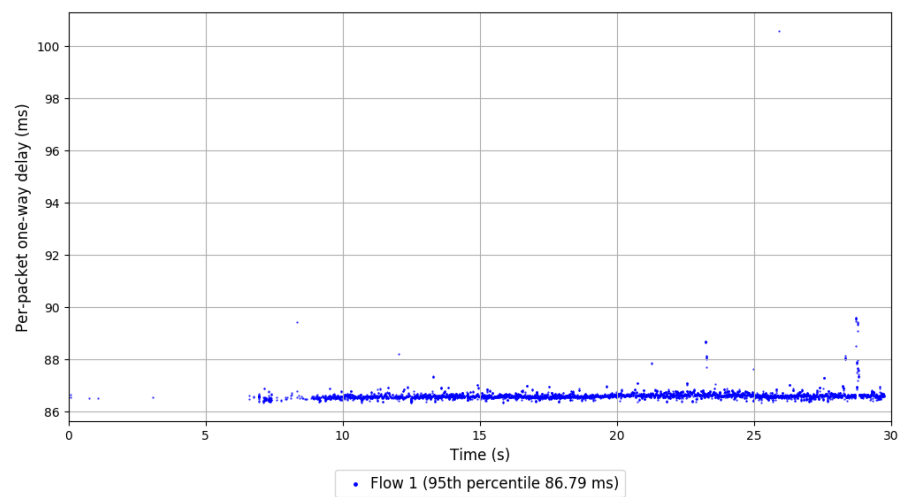
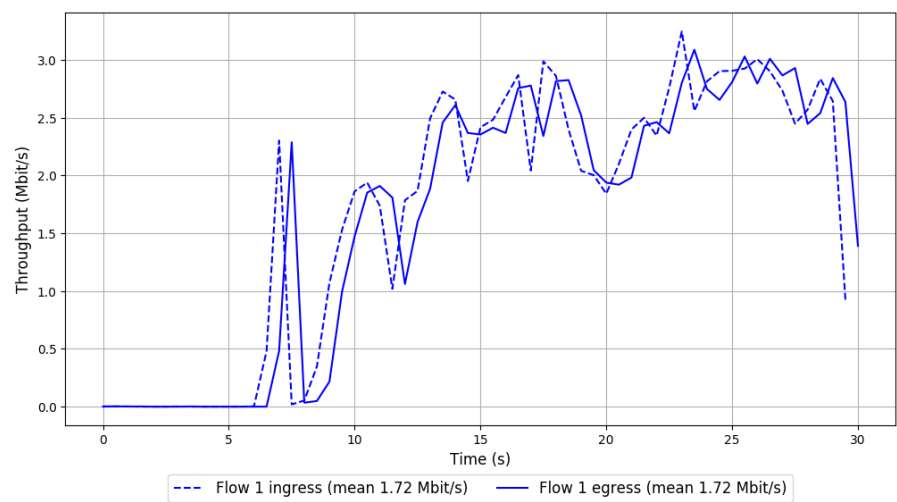



```
Run 1: Statistics of WebRTC media

Start at: 2019-03-08 20:00:01
End at: 2019-03-08 20:00:31
Local clock offset: 7.953 ms
Remote clock offset: 8.063 ms

# Below is generated by plot.py at 2019-03-09 00:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 86.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 86.788 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

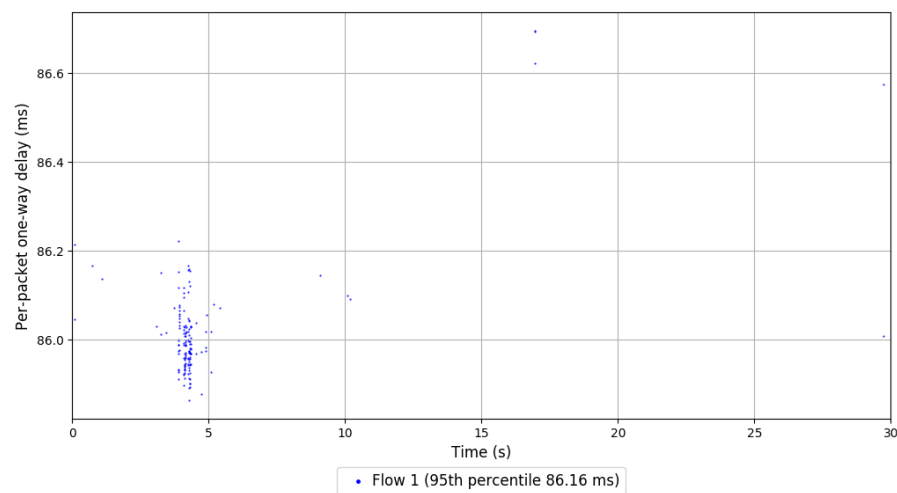
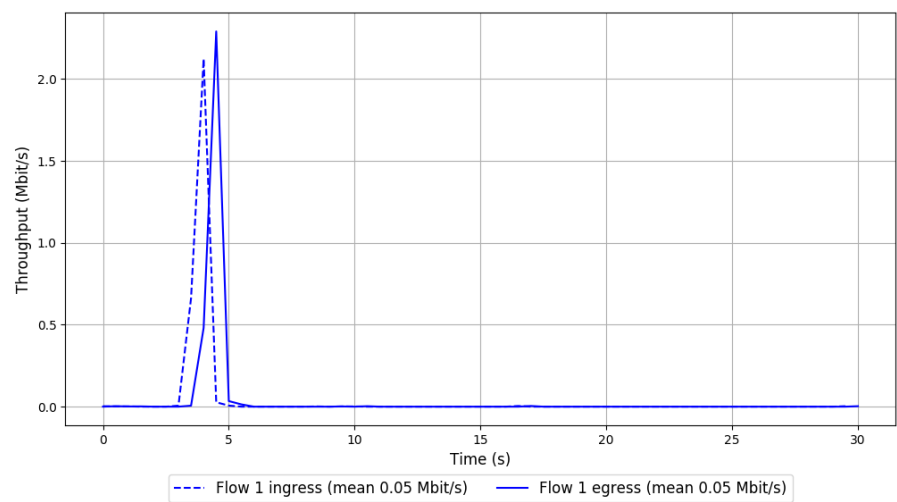


Run 2: Statistics of WebRTC media

Start at: 2019-03-08 20:31:06
End at: 2019-03-08 20:31:36
Local clock offset: 12.039 ms
Remote clock offset: 11.382 ms

Below is generated by plot.py at 2019-03-09 00:11:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.159 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

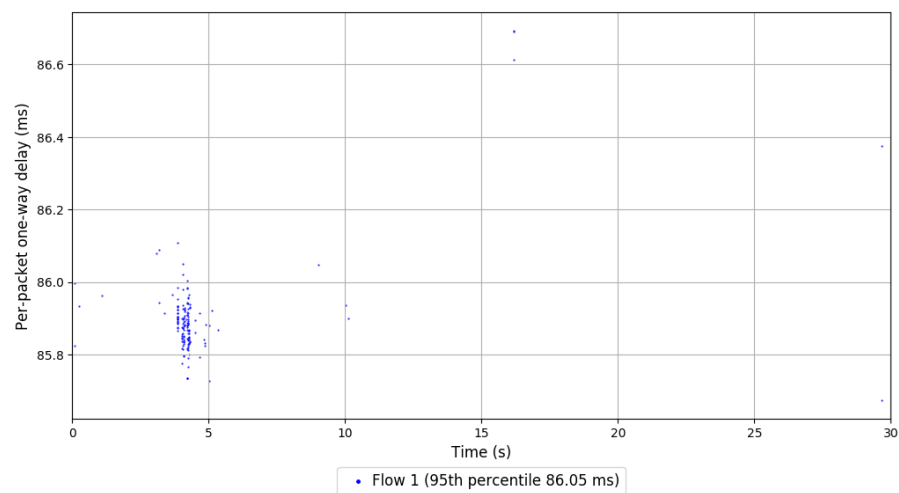
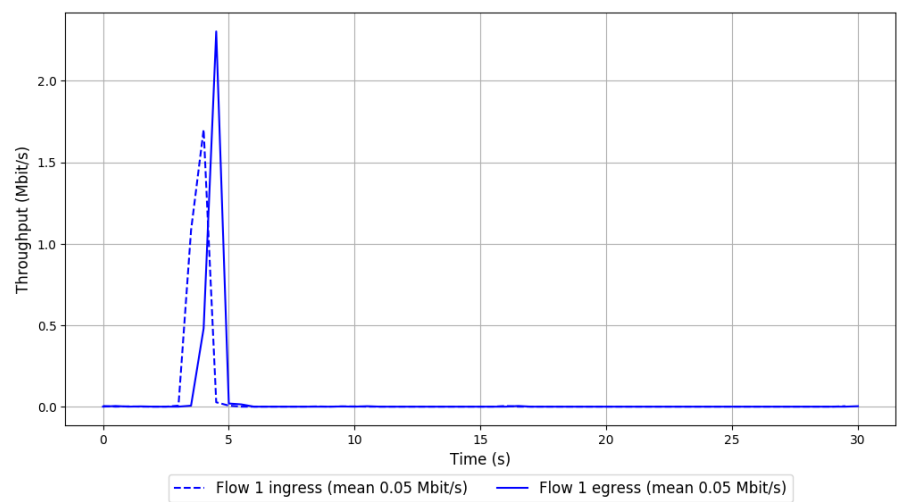


Run 3: Statistics of WebRTC media

Start at: 2019-03-08 21:02:18
End at: 2019-03-08 21:02:48
Local clock offset: 9.832 ms
Remote clock offset: 10.441 ms

Below is generated by plot.py at 2019-03-09 00:11:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.047 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-08 21:33:33

End at: 2019-03-08 21:34:03

Local clock offset: 3.068 ms

Remote clock offset: 6.336 ms

Below is generated by plot.py at 2019-03-09 00:11:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.982 ms

Loss rate: 0.00%

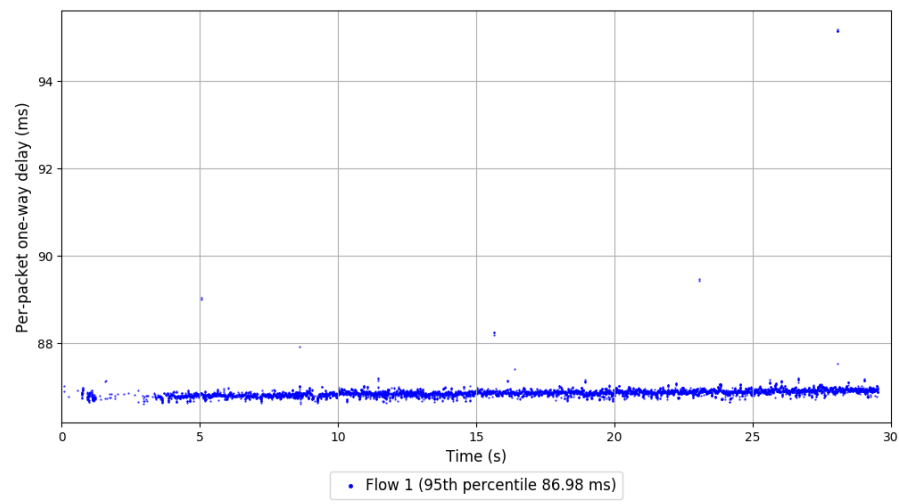
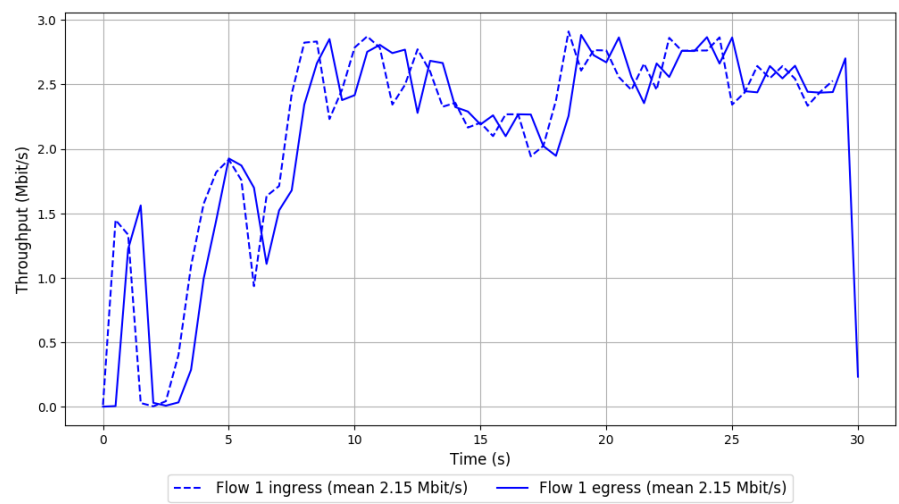
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 86.982 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-08 22:04:48

End at: 2019-03-08 22:05:18

Local clock offset: 1.905 ms

Remote clock offset: 3.727 ms

Below is generated by plot.py at 2019-03-09 00:11:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.264 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.264 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

