

Pantheon Report

Generated at 2019-07-17 21:00:35 (UTC).

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

Repeated the test of 24 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:

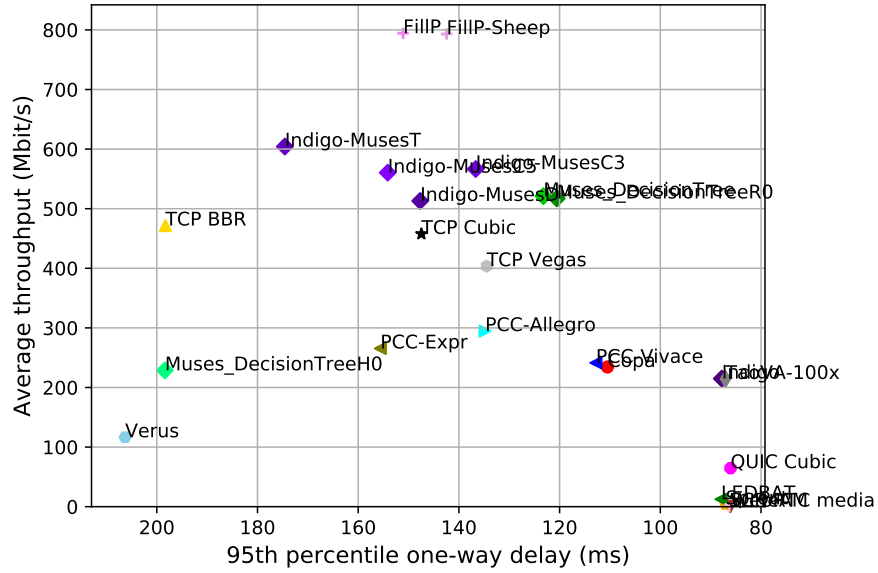
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

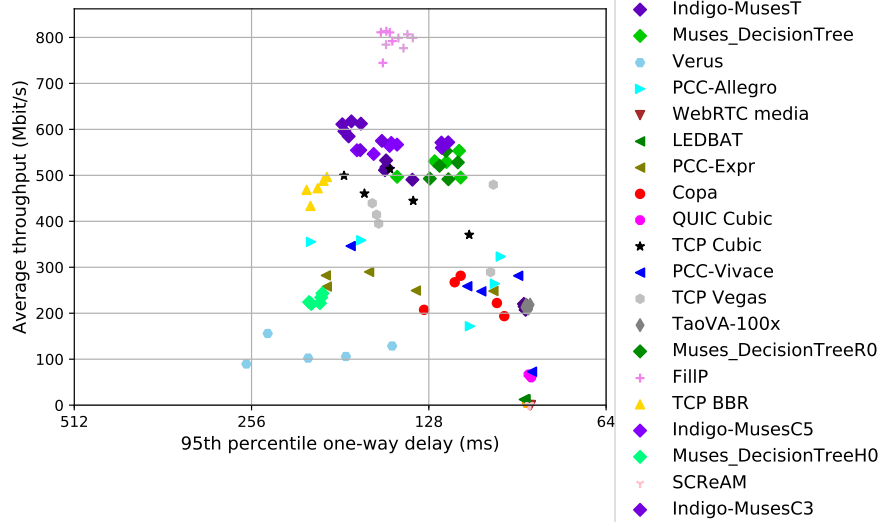
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
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 Iowa to GCE Sydney, 5 runs of 30s each per scheme
(mean of all runs by scheme)



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



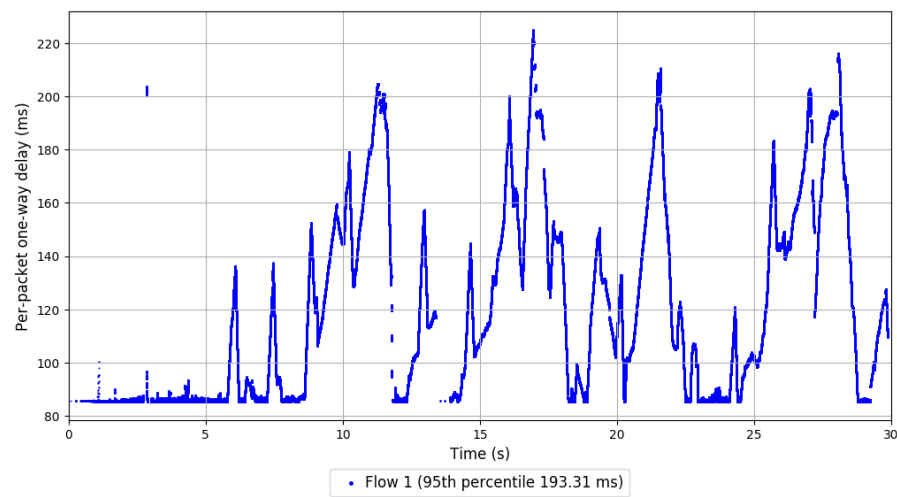
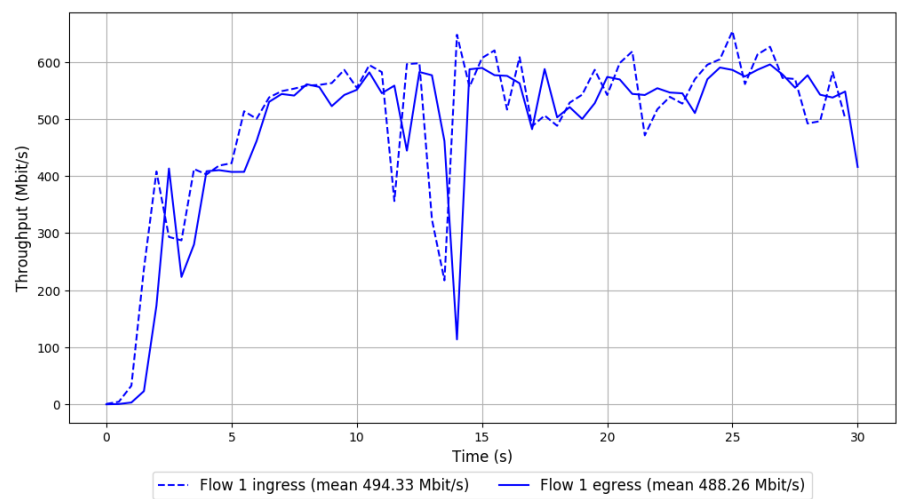
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	471.73	198.29	2.31
Copa	5	234.43	110.50	0.83
TCP Cubic	5	457.66	147.45	0.92
FillP	5	794.46	151.08	2.47
FillP-Sheep	5	793.11	142.45	1.75
Indigo	5	214.91	87.79	0.85
Indigo-MusesC3	5	566.54	136.67	0.82
Indigo-MusesC5	5	560.45	154.14	1.08
Indigo-MusesD	4	513.00	147.70	0.91
Indigo-MusesT	5	604.29	174.57	1.11
LEDBAT	5	12.47	87.95	1.15
Muses_DecisionTree	5	520.98	123.23	1.18
Muses_DecisionTreeH0	5	228.75	198.39	14.30
Muses_DecisionTreeR0	5	517.21	120.56	1.14
PCC-Allegro	5	294.64	134.80	1.59
PCC-Expr	5	265.51	155.61	1.47
QUIC Cubic	4	64.64	86.06	0.91
SCReAM	5	0.22	86.34	0.54
Sprout	5	4.11	87.03	0.57
TaoVA-100x	5	214.28	87.06	1.07
TCP Vegas	5	403.52	134.49	0.70
Verus	5	116.50	206.30	3.00
PCC-Vivace	5	241.35	112.79	1.09
WebRTC media	4	0.05	86.09	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-07-17 16:11:25
End at: 2019-07-17 16:11:55
Local clock offset: 18.625 ms
Remote clock offset: 19.575 ms

Below is generated by plot.py at 2019-07-17 19:13:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 488.26 Mbit/s
95th percentile per-packet one-way delay: 193.308 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 488.26 Mbit/s
95th percentile per-packet one-way delay: 193.308 ms
Loss rate: 1.80%

Run 1: Report of TCP BBR — Data Link

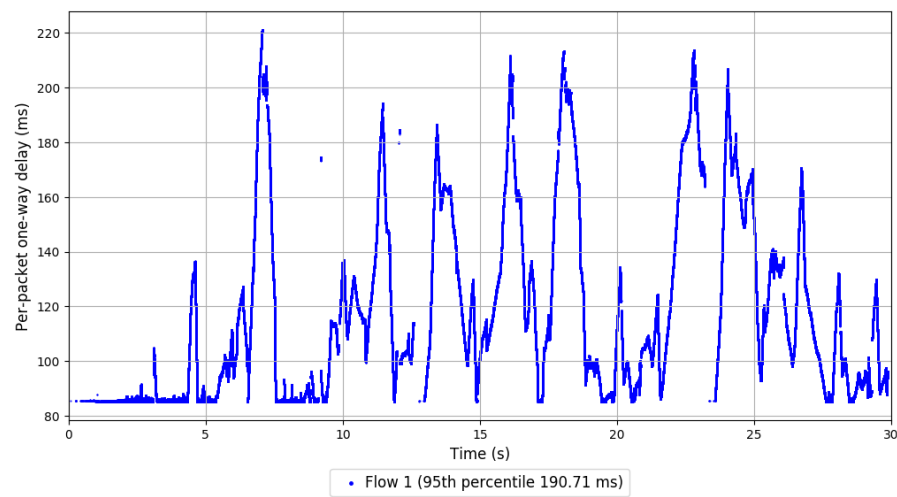
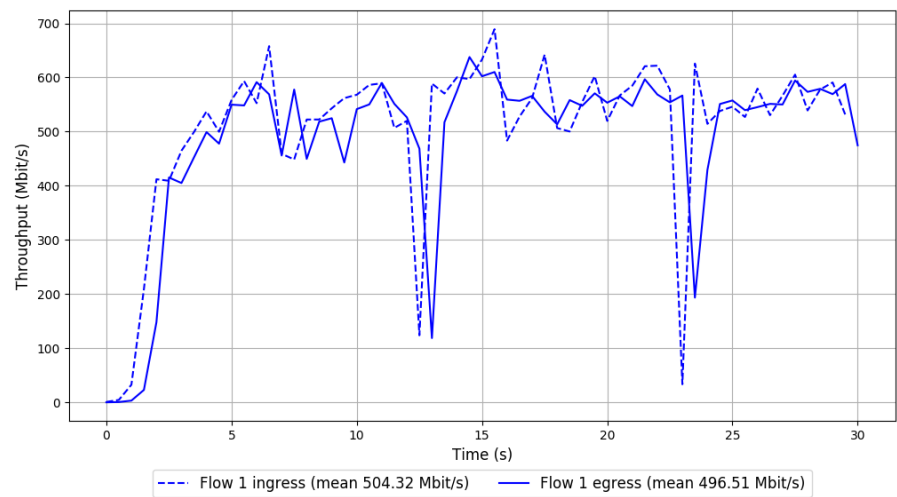


Run 2: Statistics of TCP BBR

Start at: 2019-07-17 16:46:49
End at: 2019-07-17 16:47:19
Local clock offset: 25.608 ms
Remote clock offset: 26.898 ms

Below is generated by plot.py at 2019-07-17 19:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 496.51 Mbit/s
95th percentile per-packet one-way delay: 190.706 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 496.51 Mbit/s
95th percentile per-packet one-way delay: 190.706 ms
Loss rate: 2.12%

Run 2: Report of TCP BBR — Data Link

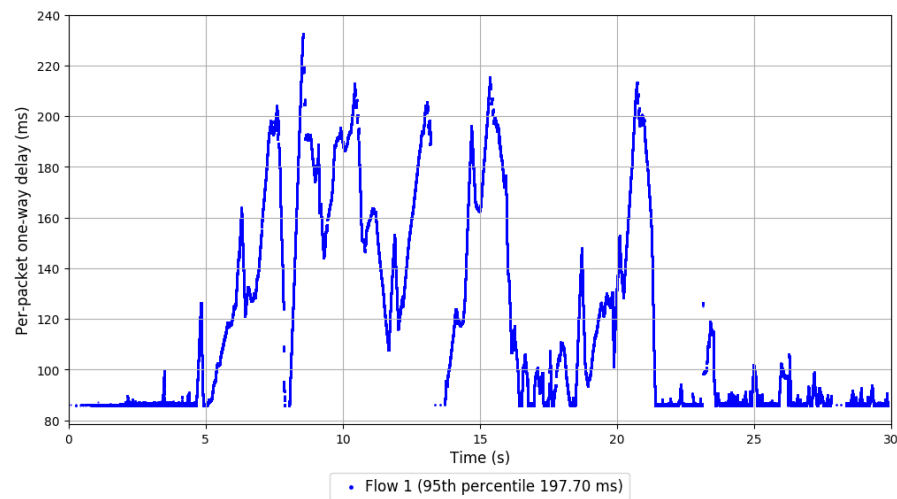
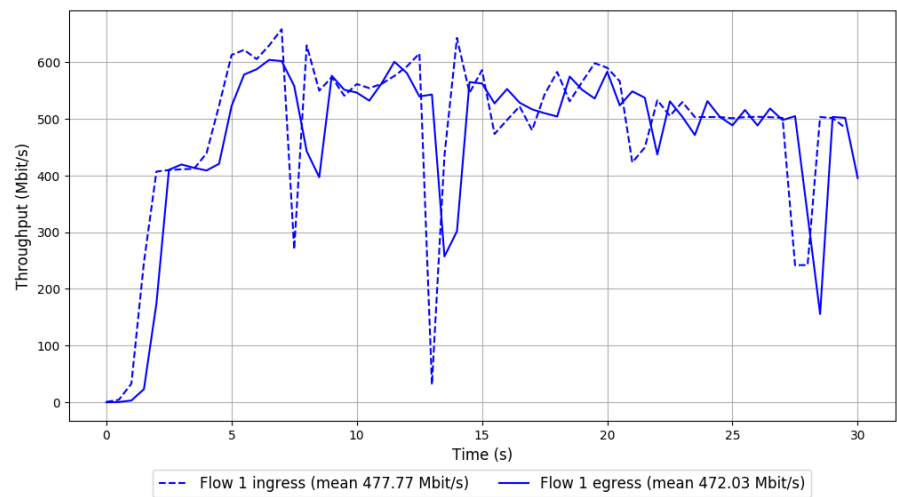


Run 3: Statistics of TCP BBR

Start at: 2019-07-17 17:22:05
End at: 2019-07-17 17:22:35
Local clock offset: 10.149 ms
Remote clock offset: 10.445 ms

Below is generated by plot.py at 2019-07-17 19:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 472.03 Mbit/s
95th percentile per-packet one-way delay: 197.700 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 472.03 Mbit/s
95th percentile per-packet one-way delay: 197.700 ms
Loss rate: 1.77%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-07-17 17:57:36

End at: 2019-07-17 17:58:06

Local clock offset: 3.924 ms

Remote clock offset: 3.86 ms

Below is generated by plot.py at 2019-07-17 19:13:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 468.38 Mbit/s

95th percentile per-packet one-way delay: 206.444 ms

Loss rate: 2.62%

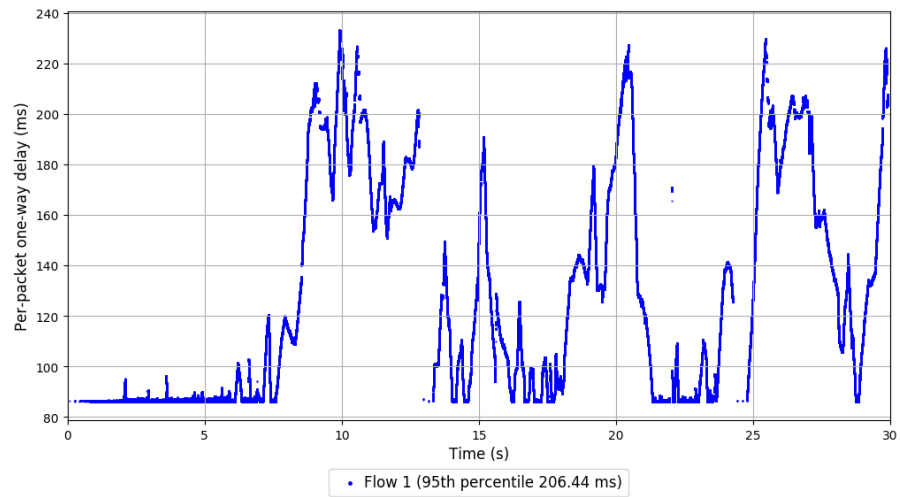
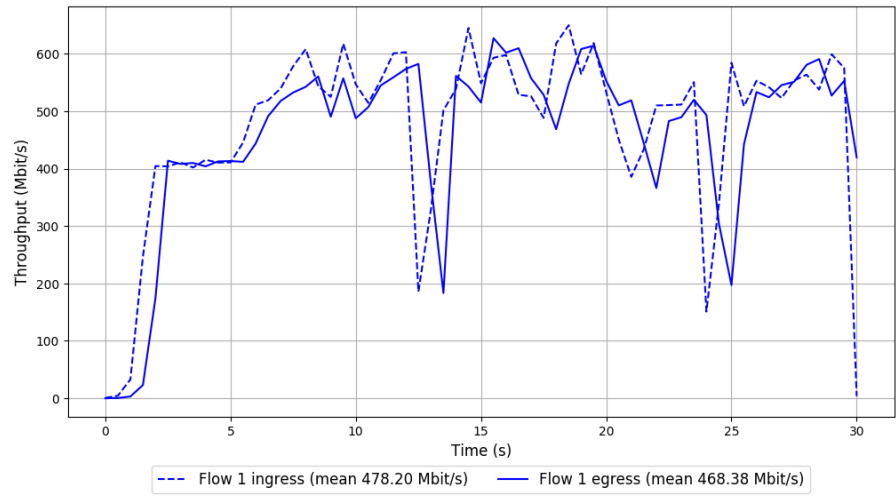
-- Flow 1:

Average throughput: 468.38 Mbit/s

95th percentile per-packet one-way delay: 206.444 ms

Loss rate: 2.62%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-07-17 18:32:59

End at: 2019-07-17 18:33:29

Local clock offset: 2.006 ms

Remote clock offset: 1.89 ms

Below is generated by plot.py at 2019-07-17 19:13:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.49 Mbit/s

95th percentile per-packet one-way delay: 203.311 ms

Loss rate: 3.24%

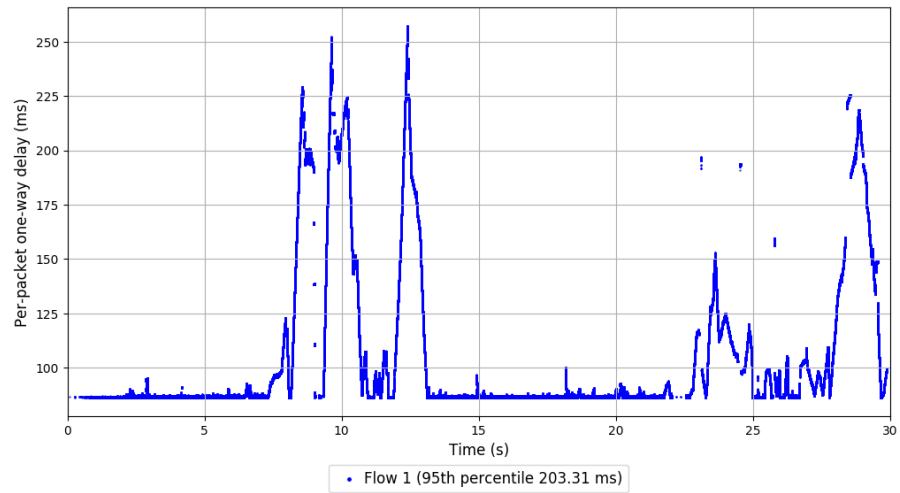
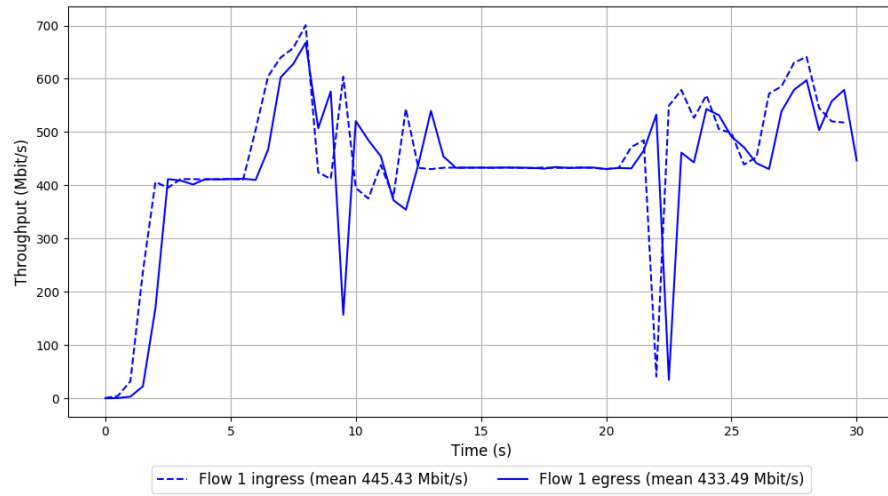
-- Flow 1:

Average throughput: 433.49 Mbit/s

95th percentile per-packet one-way delay: 203.311 ms

Loss rate: 3.24%

Run 5: Report of TCP BBR — Data Link

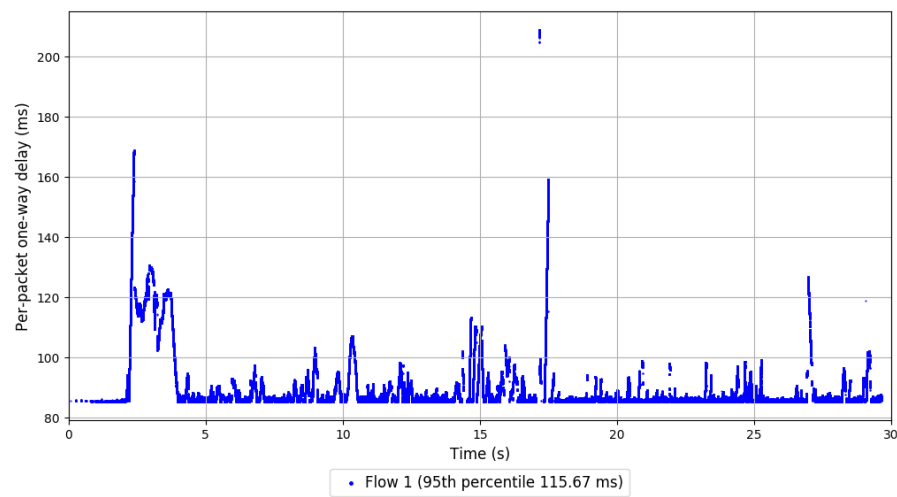
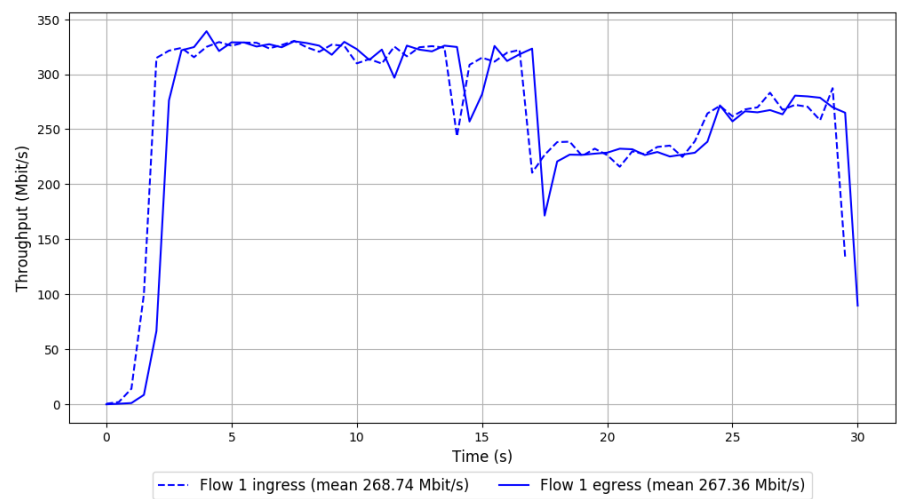


Run 1: Statistics of Copa

Start at: 2019-07-17 16:01:43
End at: 2019-07-17 16:02:13
Local clock offset: 9.511 ms
Remote clock offset: 10.403 ms

Below is generated by plot.py at 2019-07-17 19:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 267.36 Mbit/s
95th percentile per-packet one-way delay: 115.674 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 267.36 Mbit/s
95th percentile per-packet one-way delay: 115.674 ms
Loss rate: 1.09%

Run 1: Report of Copa — Data Link

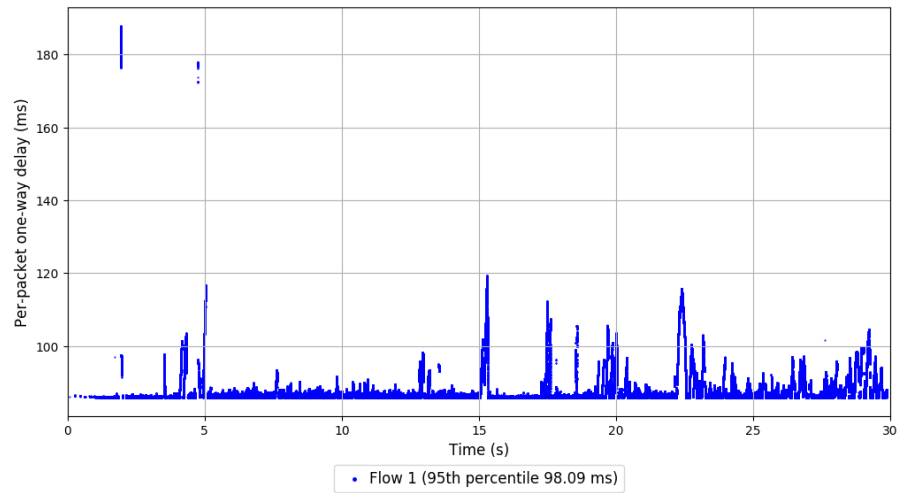
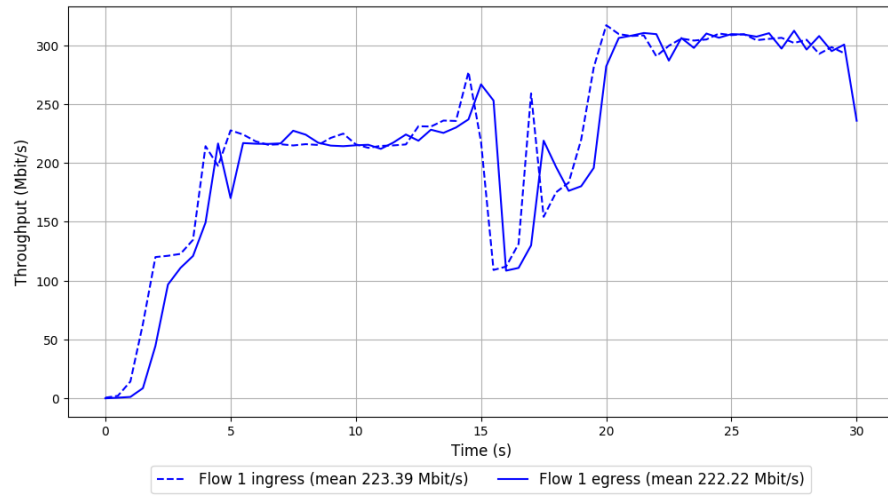


Run 2: Statistics of Copa

Start at: 2019-07-17 16:36:56
End at: 2019-07-17 16:37:26
Local clock offset: 20.776 ms
Remote clock offset: 21.67 ms

Below is generated by plot.py at 2019-07-17 19:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.22 Mbit/s
95th percentile per-packet one-way delay: 98.087 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 222.22 Mbit/s
95th percentile per-packet one-way delay: 98.087 ms
Loss rate: 1.09%

Run 2: Report of Copa — Data Link

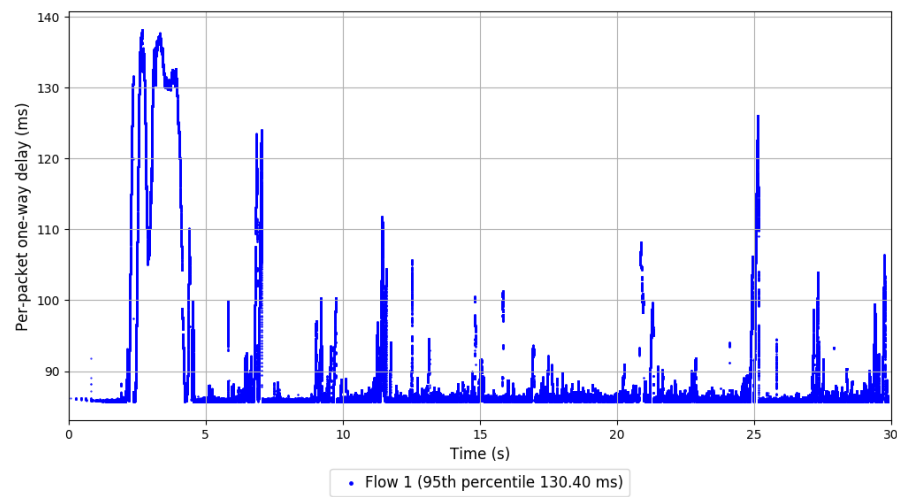
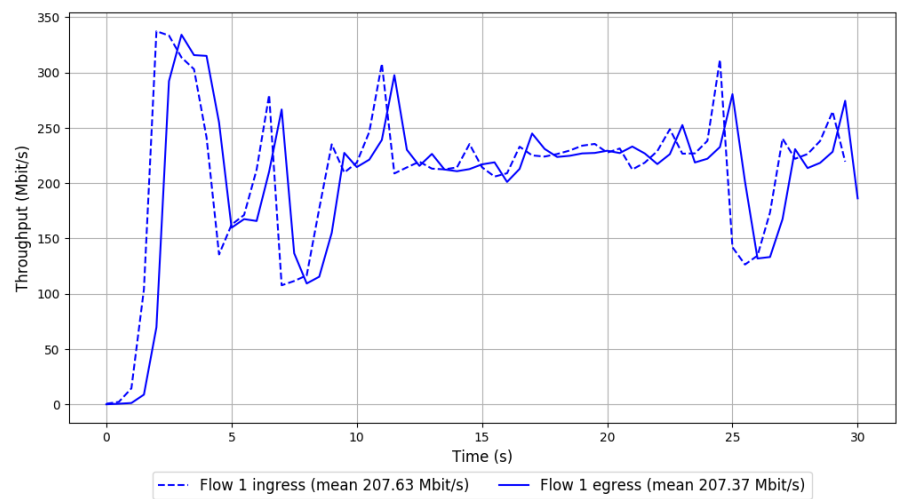


Run 3: Statistics of Copa

Start at: 2019-07-17 17:12:24
End at: 2019-07-17 17:12:54
Local clock offset: 16.499 ms
Remote clock offset: 16.96 ms

Below is generated by plot.py at 2019-07-17 19:13:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.37 Mbit/s
95th percentile per-packet one-way delay: 130.402 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 207.37 Mbit/s
95th percentile per-packet one-way delay: 130.402 ms
Loss rate: 0.70%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2019-07-17 17:47:38

End at: 2019-07-17 17:48:08

Local clock offset: 4.462 ms

Remote clock offset: 4.651 ms

Below is generated by plot.py at 2019-07-17 19:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.54 Mbit/s

95th percentile per-packet one-way delay: 113.012 ms

Loss rate: 0.59%

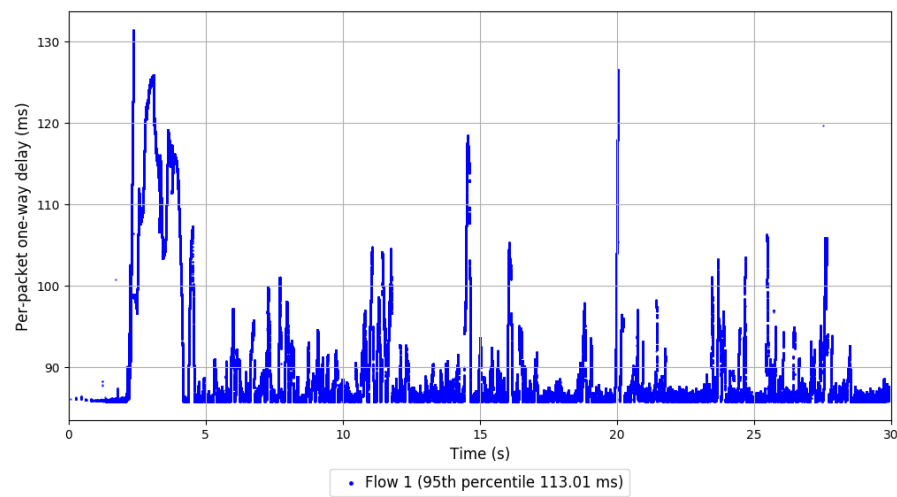
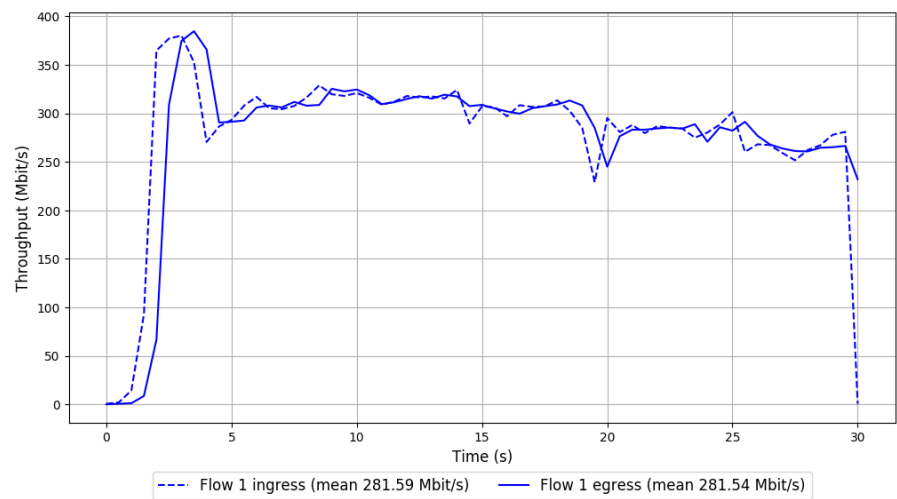
-- Flow 1:

Average throughput: 281.54 Mbit/s

95th percentile per-packet one-way delay: 113.012 ms

Loss rate: 0.59%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-07-17 18:23:17

End at: 2019-07-17 18:23:47

Local clock offset: 1.91 ms

Remote clock offset: 2.004 ms

Below is generated by plot.py at 2019-07-17 19:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.64 Mbit/s

95th percentile per-packet one-way delay: 95.303 ms

Loss rate: 0.69%

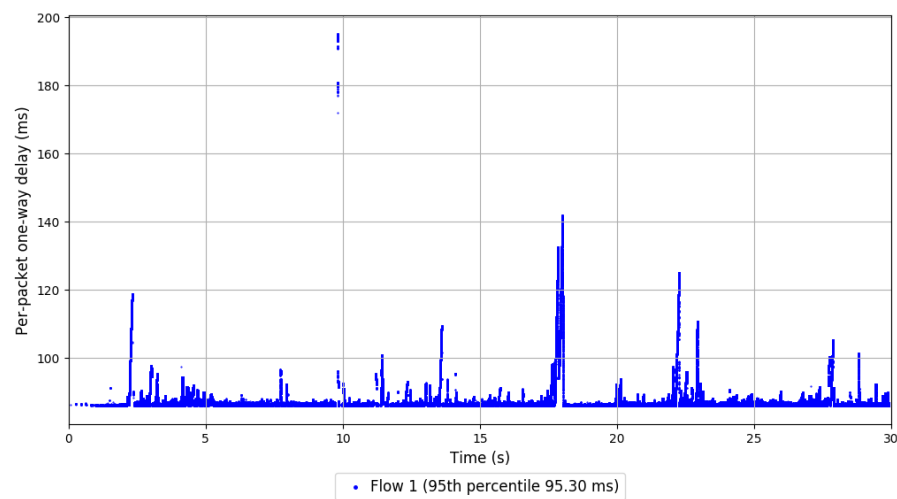
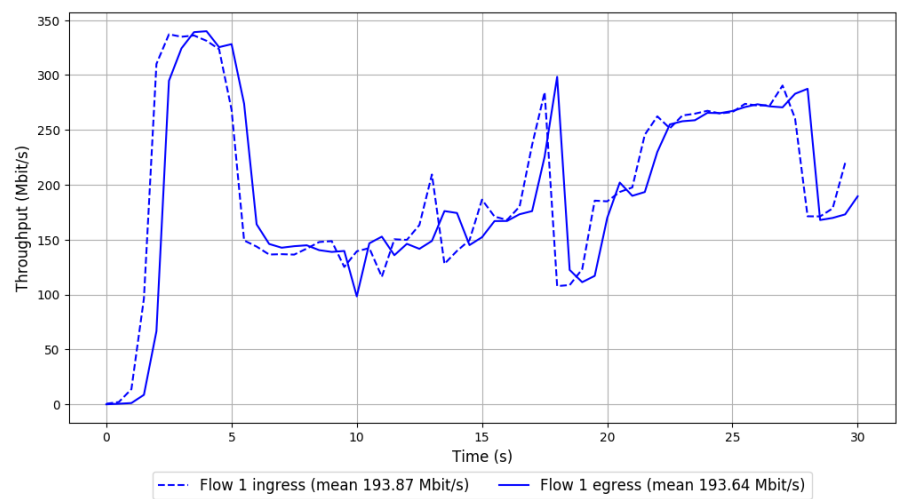
-- Flow 1:

Average throughput: 193.64 Mbit/s

95th percentile per-packet one-way delay: 95.303 ms

Loss rate: 0.69%

Run 5: Report of Copa — Data Link

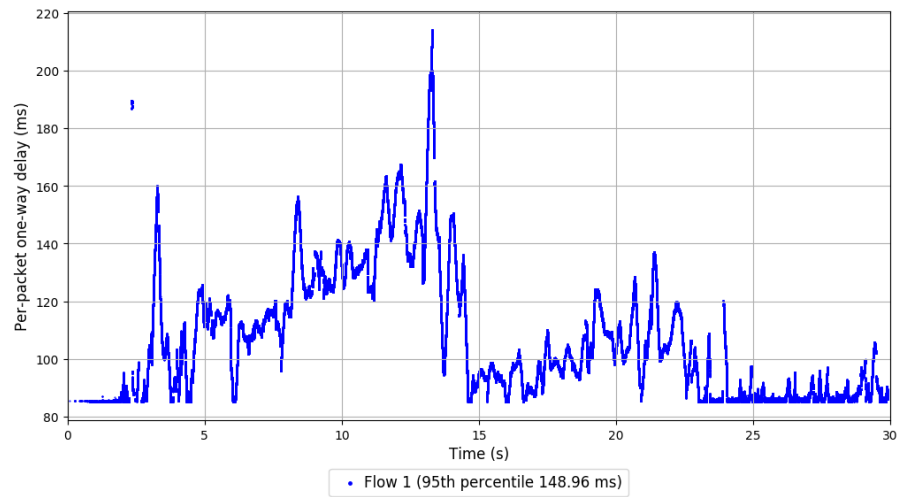
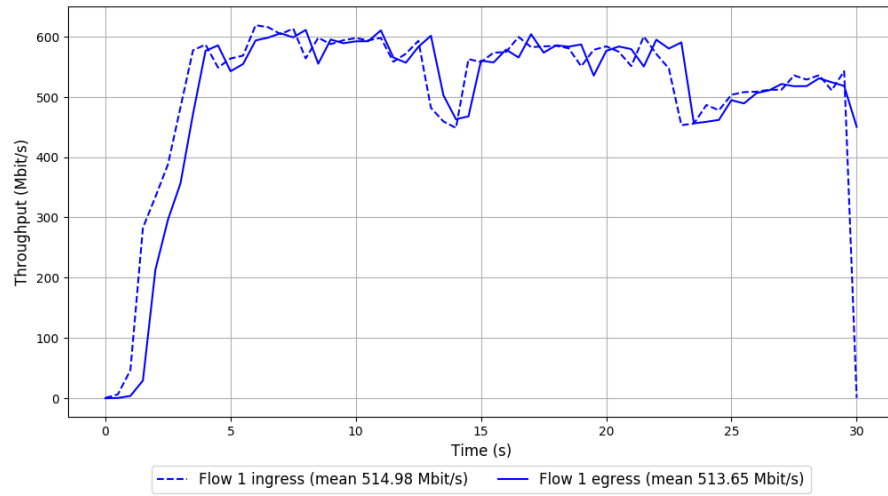


Run 1: Statistics of TCP Cubic

Start at: 2019-07-17 16:21:26
End at: 2019-07-17 16:21:56
Local clock offset: 17.98 ms
Remote clock offset: 19.155 ms

Below is generated by plot.py at 2019-07-17 19:22:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 513.65 Mbit/s
95th percentile per-packet one-way delay: 148.962 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 513.65 Mbit/s
95th percentile per-packet one-way delay: 148.962 ms
Loss rate: 0.83%

Run 1: Report of TCP Cubic — Data Link

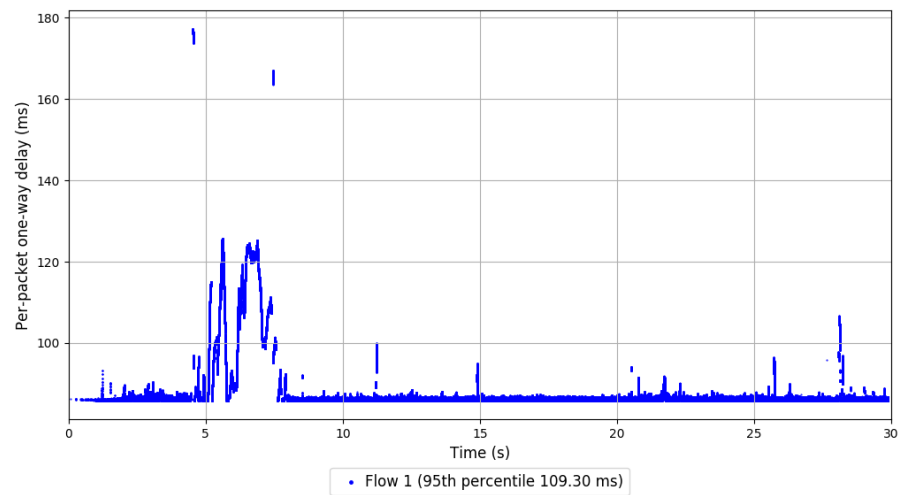
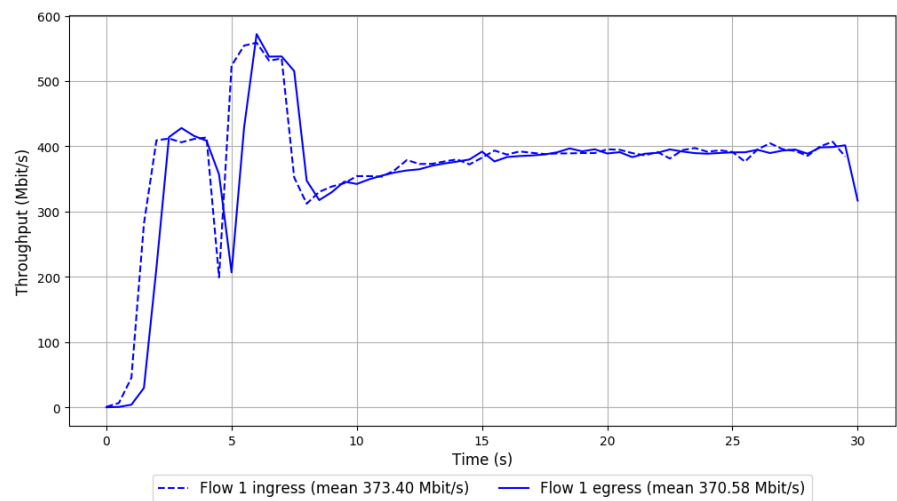


Run 2: Statistics of TCP Cubic

Start at: 2019-07-17 16:56:53
End at: 2019-07-17 16:57:23
Local clock offset: 36.038 ms
Remote clock offset: 37.145 ms

Below is generated by plot.py at 2019-07-17 19:22:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 370.58 Mbit/s
95th percentile per-packet one-way delay: 109.298 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 370.58 Mbit/s
95th percentile per-packet one-way delay: 109.298 ms
Loss rate: 1.32%

Run 2: Report of TCP Cubic — Data Link

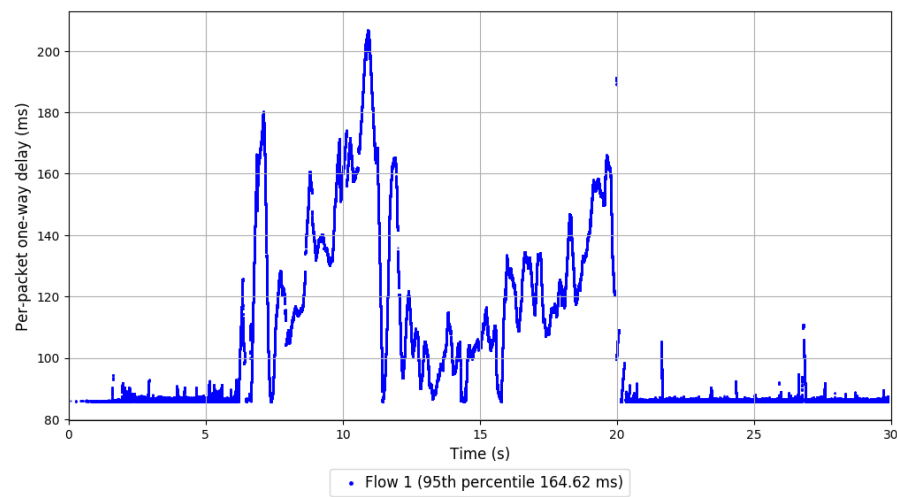
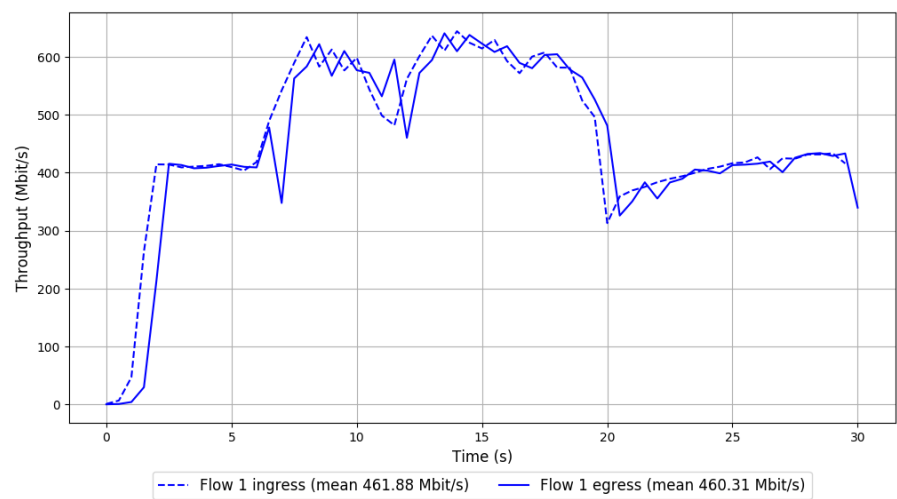


Run 3: Statistics of TCP Cubic

Start at: 2019-07-17 17:32:08
End at: 2019-07-17 17:32:38
Local clock offset: 9.683 ms
Remote clock offset: 10.394 ms

Below is generated by plot.py at 2019-07-17 19:22:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 460.31 Mbit/s
95th percentile per-packet one-way delay: 164.625 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 460.31 Mbit/s
95th percentile per-packet one-way delay: 164.625 ms
Loss rate: 0.91%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-07-17 18:07:37

End at: 2019-07-17 18:08:07

Local clock offset: 4.761 ms

Remote clock offset: 4.611 ms

Below is generated by plot.py at 2019-07-17 19:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.17 Mbit/s

95th percentile per-packet one-way delay: 178.316 ms

Loss rate: 0.91%

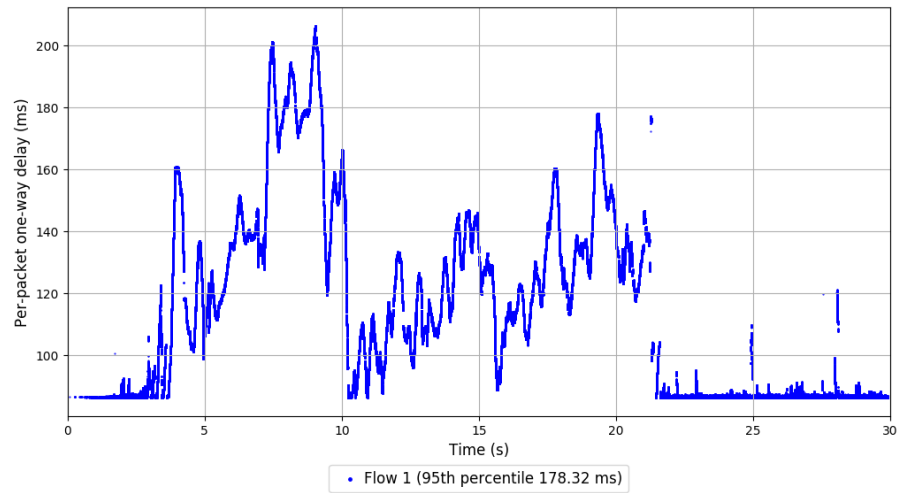
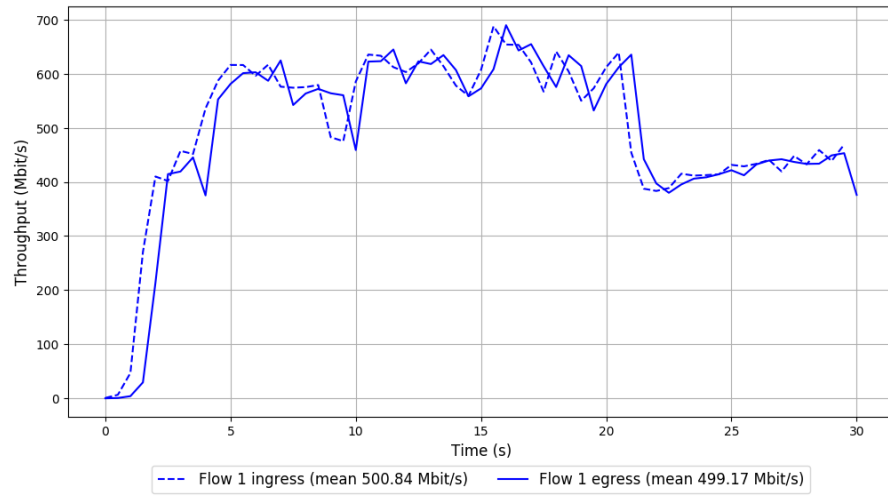
-- Flow 1:

Average throughput: 499.17 Mbit/s

95th percentile per-packet one-way delay: 178.316 ms

Loss rate: 0.91%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-07-17 18:43:06

End at: 2019-07-17 18:43:36

Local clock offset: 2.441 ms

Remote clock offset: 2.297 ms

Below is generated by plot.py at 2019-07-17 19:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.58 Mbit/s

95th percentile per-packet one-way delay: 136.047 ms

Loss rate: 0.63%

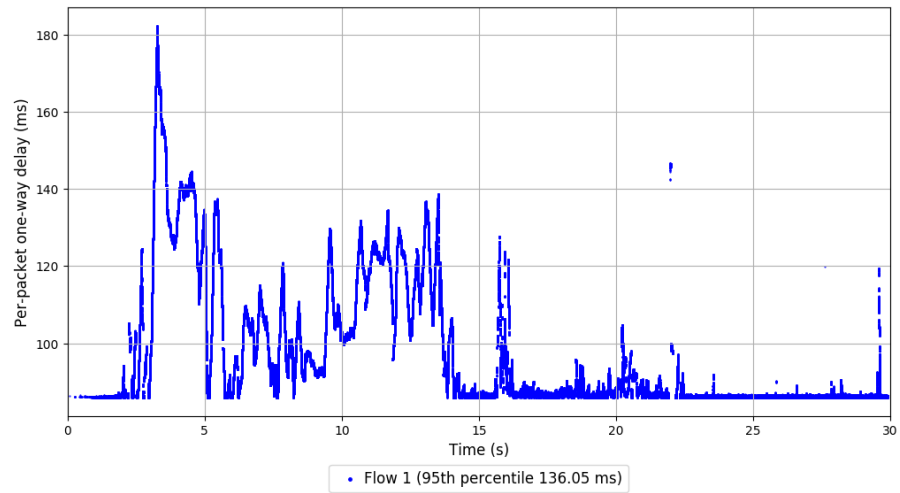
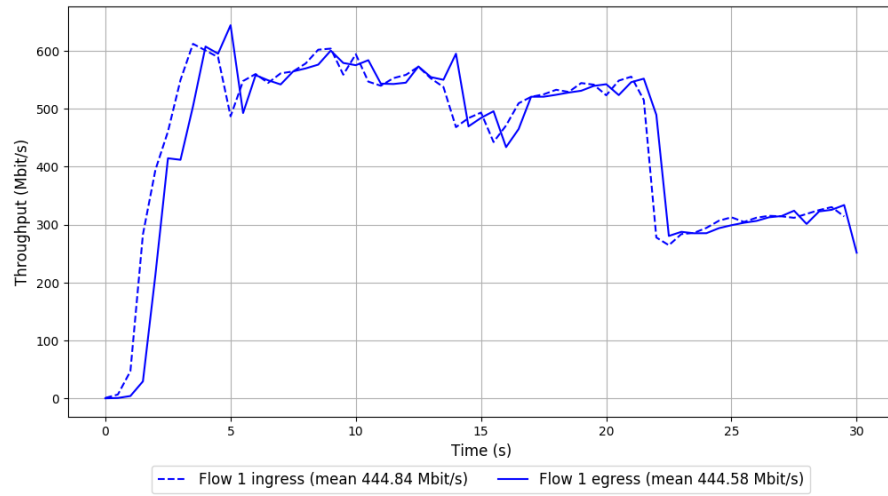
-- Flow 1:

Average throughput: 444.58 Mbit/s

95th percentile per-packet one-way delay: 136.047 ms

Loss rate: 0.63%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-07-17 16:27:42

End at: 2019-07-17 16:28:12

Local clock offset: 26.785 ms

Remote clock offset: 28.07 ms

Below is generated by plot.py at 2019-07-17 19:31:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 810.93 Mbit/s

95th percentile per-packet one-way delay: 149.079 ms

Loss rate: 2.06%

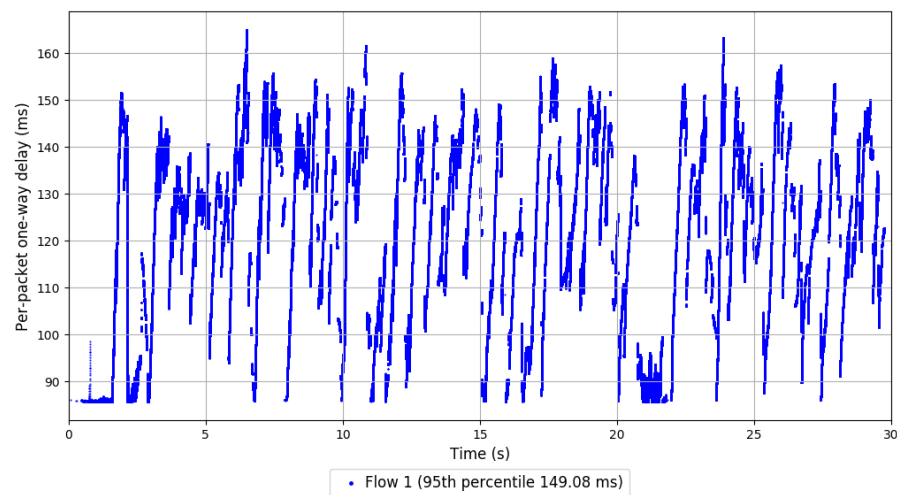
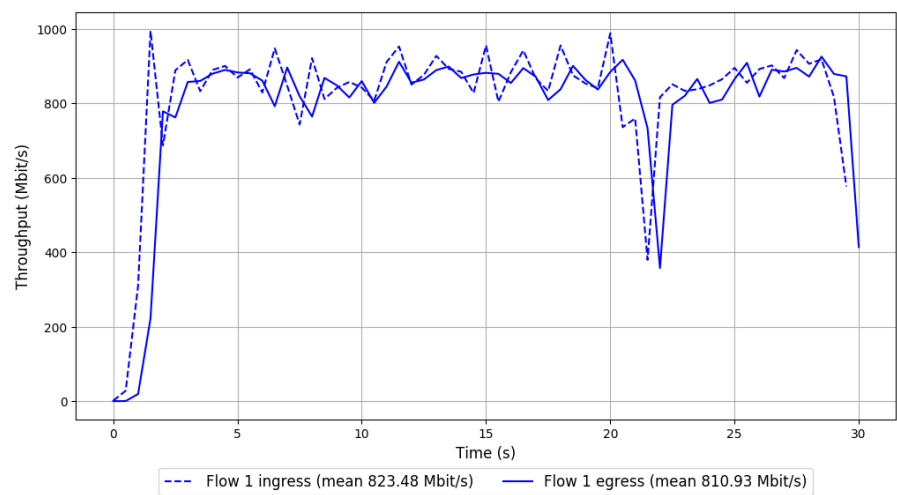
-- Flow 1:

Average throughput: 810.93 Mbit/s

95th percentile per-packet one-way delay: 149.079 ms

Loss rate: 2.06%

Run 1: Report of FillP — Data Link

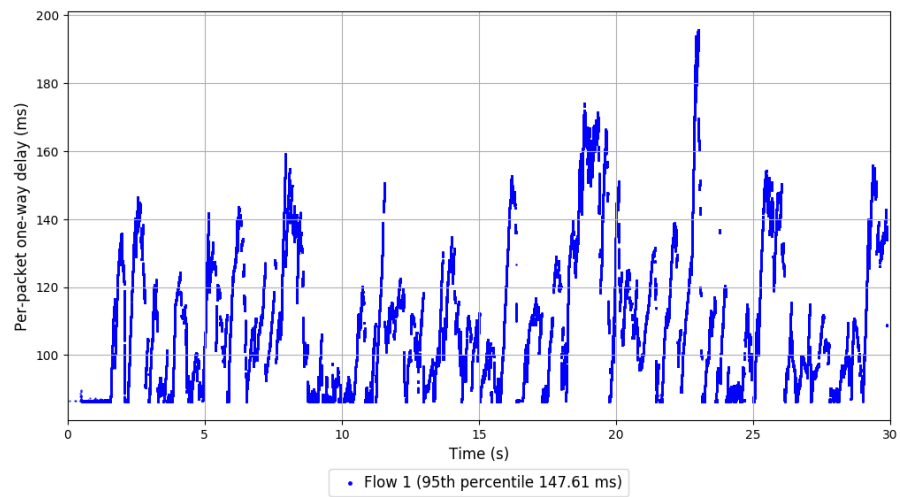
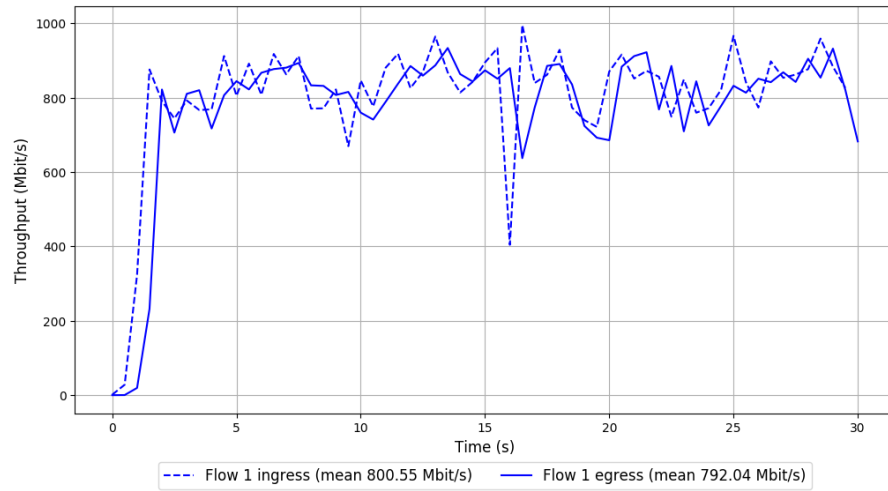


Run 2: Statistics of FillP

Start at: 2019-07-17 17:03:04
End at: 2019-07-17 17:03:34
Local clock offset: 41.6 ms
Remote clock offset: 42.002 ms

Below is generated by plot.py at 2019-07-17 19:38:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 792.04 Mbit/s
95th percentile per-packet one-way delay: 147.608 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 792.04 Mbit/s
95th percentile per-packet one-way delay: 147.608 ms
Loss rate: 1.63%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-07-17 17:38:18

End at: 2019-07-17 17:38:48

Local clock offset: 9.06 ms

Remote clock offset: 9.702 ms

Below is generated by plot.py at 2019-07-17 19:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 811.15 Mbit/s

95th percentile per-packet one-way delay: 154.394 ms

Loss rate: 3.50%

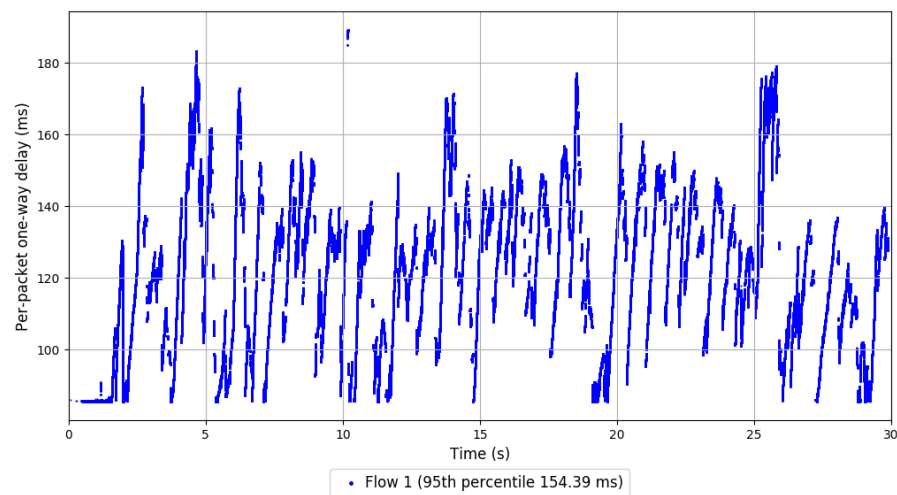
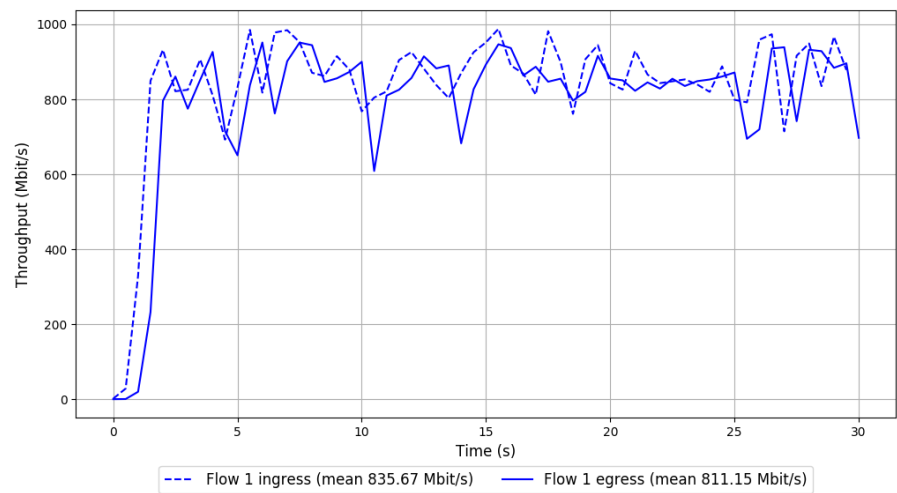
-- Flow 1:

Average throughput: 811.15 Mbit/s

95th percentile per-packet one-way delay: 154.394 ms

Loss rate: 3.50%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-07-17 18:13:52

End at: 2019-07-17 18:14:22

Local clock offset: 3.302 ms

Remote clock offset: 3.727 ms

Below is generated by plot.py at 2019-07-17 19:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 744.66 Mbit/s

95th percentile per-packet one-way delay: 153.179 ms

Loss rate: 2.63%

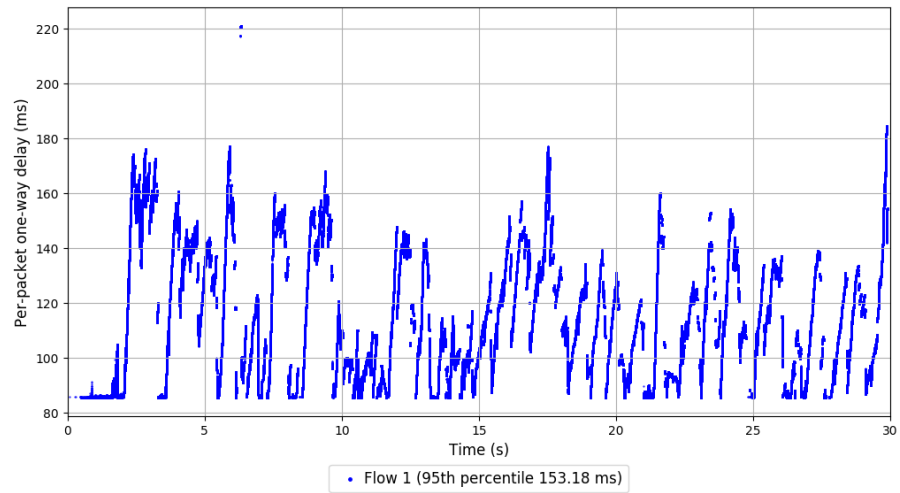
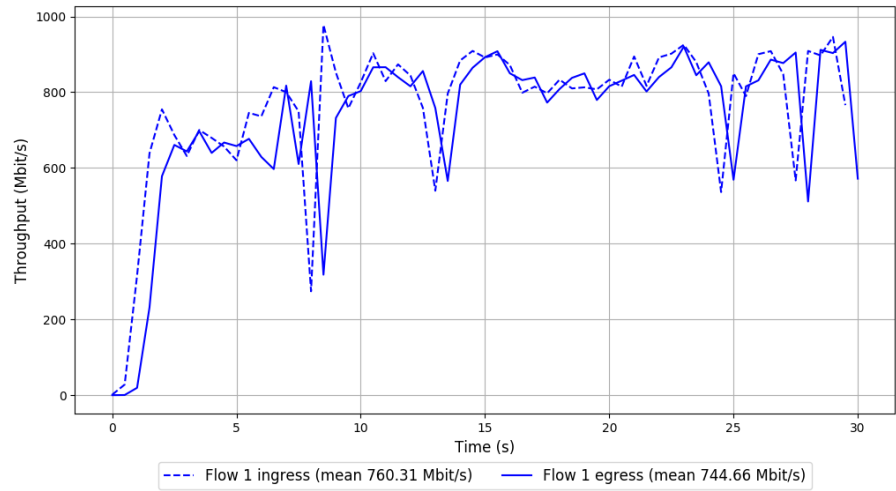
-- Flow 1:

Average throughput: 744.66 Mbit/s

95th percentile per-packet one-way delay: 153.179 ms

Loss rate: 2.63%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-07-17 18:49:27

End at: 2019-07-17 18:49:57

Local clock offset: 1.211 ms

Remote clock offset: 1.576 ms

Below is generated by plot.py at 2019-07-17 19:40:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 813.51 Mbit/s

95th percentile per-packet one-way delay: 151.137 ms

Loss rate: 2.53%

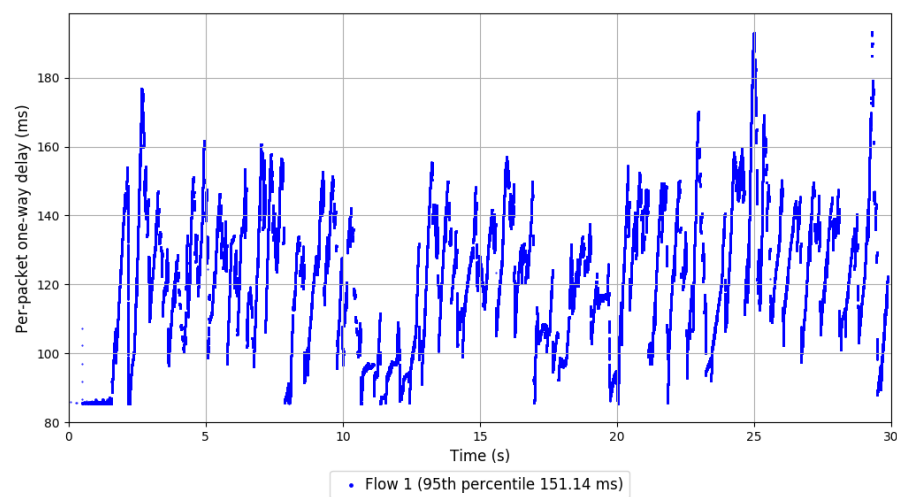
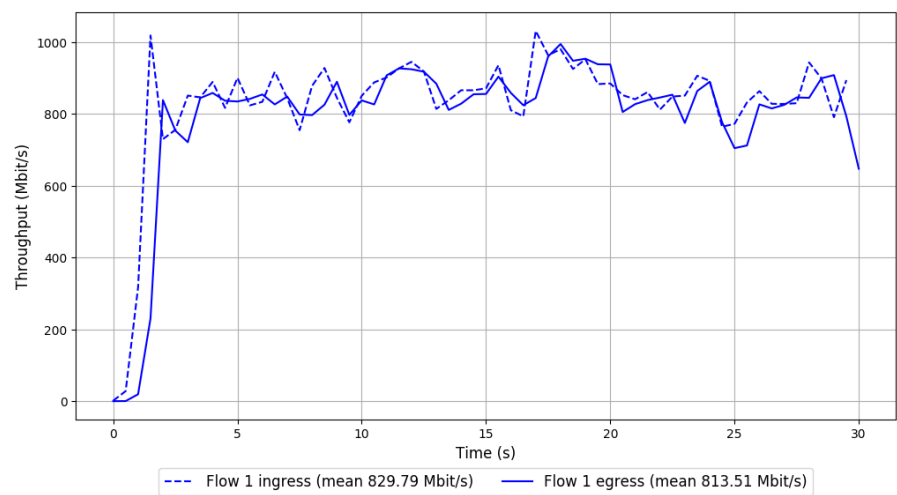
-- Flow 1:

Average throughput: 813.51 Mbit/s

95th percentile per-packet one-way delay: 151.137 ms

Loss rate: 2.53%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-07-17 15:56:22

End at: 2019-07-17 15:56:52

Local clock offset: 4.243 ms

Remote clock offset: 5.511 ms

Below is generated by plot.py at 2019-07-17 19:40:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 806.62 Mbit/s

95th percentile per-packet one-way delay: 139.186 ms

Loss rate: 1.80%

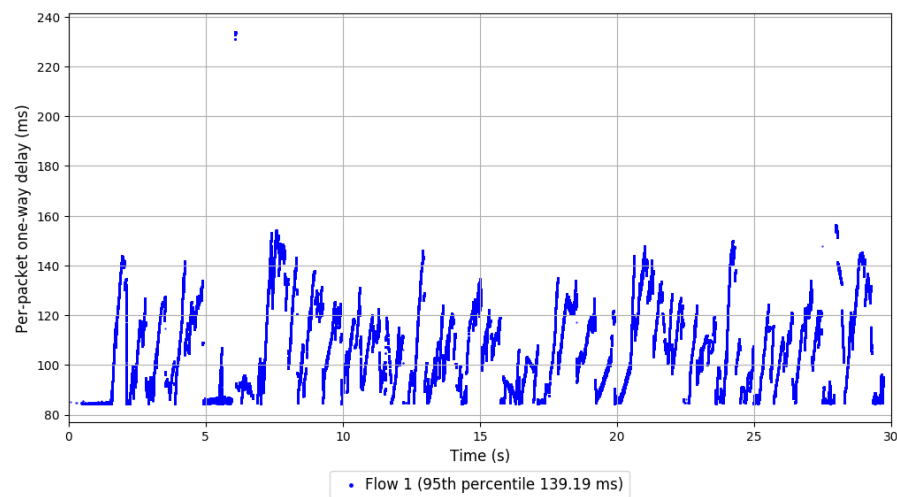
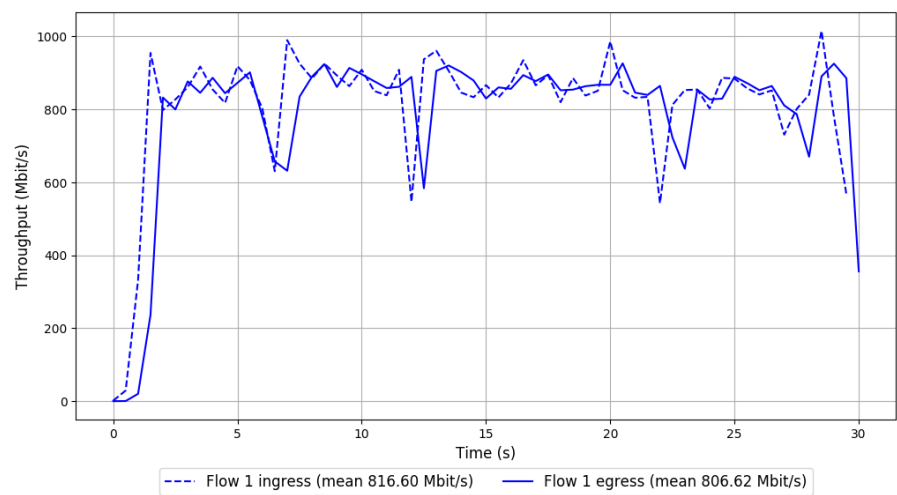
-- Flow 1:

Average throughput: 806.62 Mbit/s

95th percentile per-packet one-way delay: 139.186 ms

Loss rate: 1.80%

Run 1: Report of FillP-Sheep — Data Link

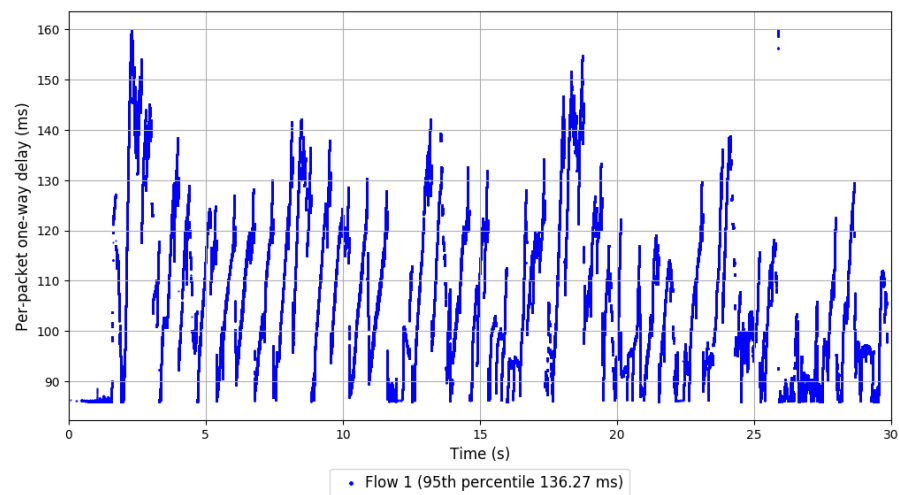
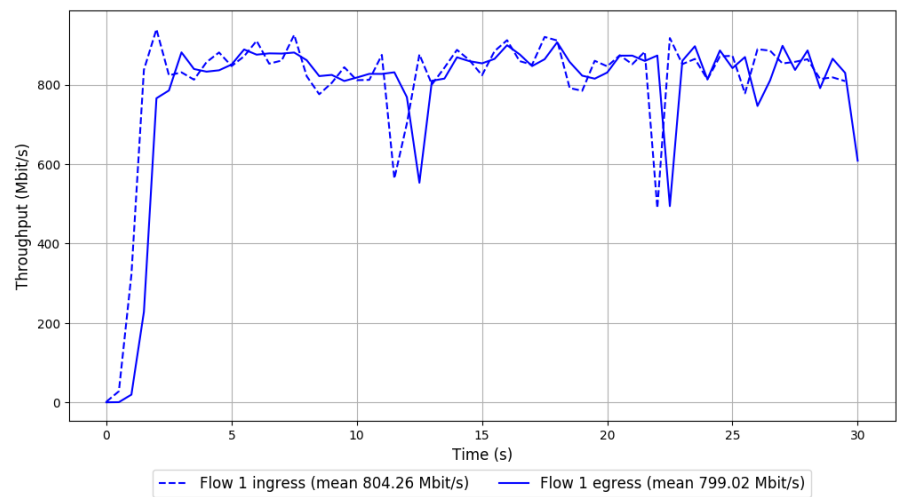


Run 2: Statistics of FillP-Sheep

Start at: 2019-07-17 16:31:02
End at: 2019-07-17 16:31:32
Local clock offset: 24.616 ms
Remote clock offset: 25.097 ms

Below is generated by plot.py at 2019-07-17 19:40:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 799.02 Mbit/s
95th percentile per-packet one-way delay: 136.267 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 799.02 Mbit/s
95th percentile per-packet one-way delay: 136.267 ms
Loss rate: 1.23%

Run 2: Report of FillP-Sheep — Data Link

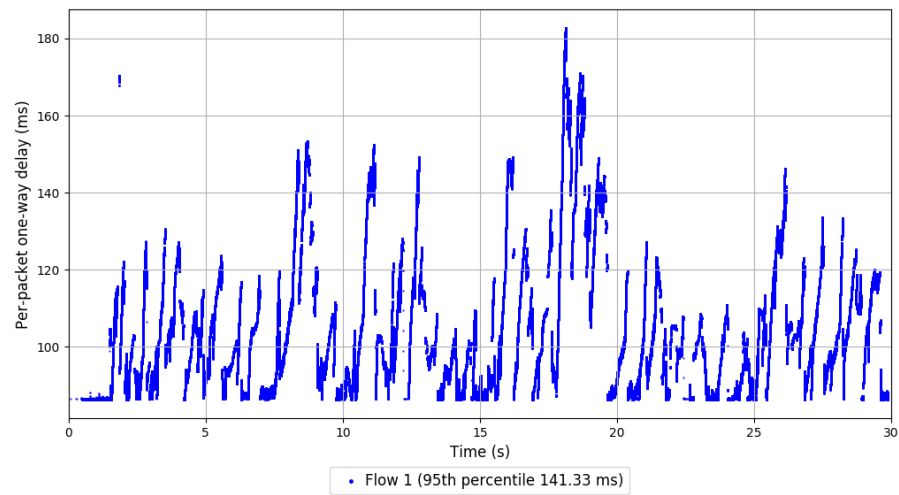
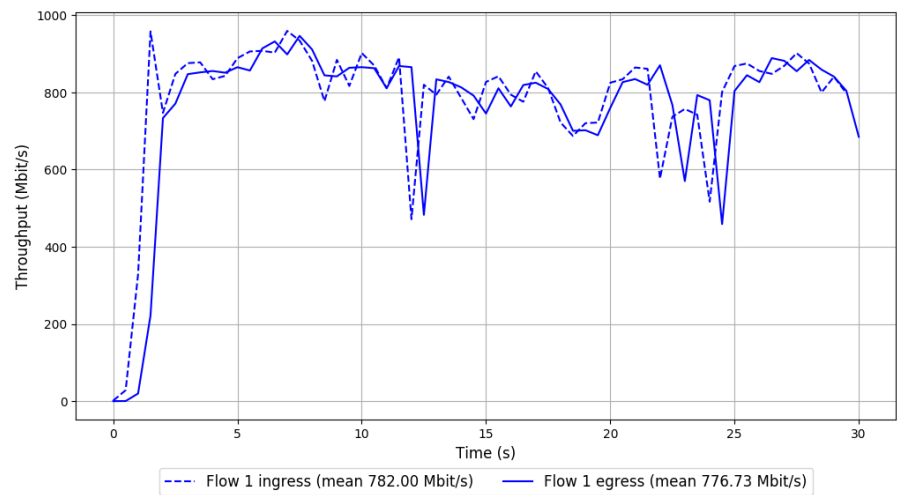


Run 3: Statistics of FillP-Sheep

Start at: 2019-07-17 17:06:26
End at: 2019-07-17 17:06:56
Local clock offset: 29.318 ms
Remote clock offset: 29.629 ms

Below is generated by plot.py at 2019-07-17 19:41:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 776.73 Mbit/s
95th percentile per-packet one-way delay: 141.330 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 776.73 Mbit/s
95th percentile per-packet one-way delay: 141.330 ms
Loss rate: 1.25%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-07-17 17:41:41

End at: 2019-07-17 17:42:11

Local clock offset: 6.722 ms

Remote clock offset: 6.933 ms

Below is generated by plot.py at 2019-07-17 19:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 798.86 Mbit/s

95th percentile per-packet one-way delay: 144.159 ms

Loss rate: 1.47%

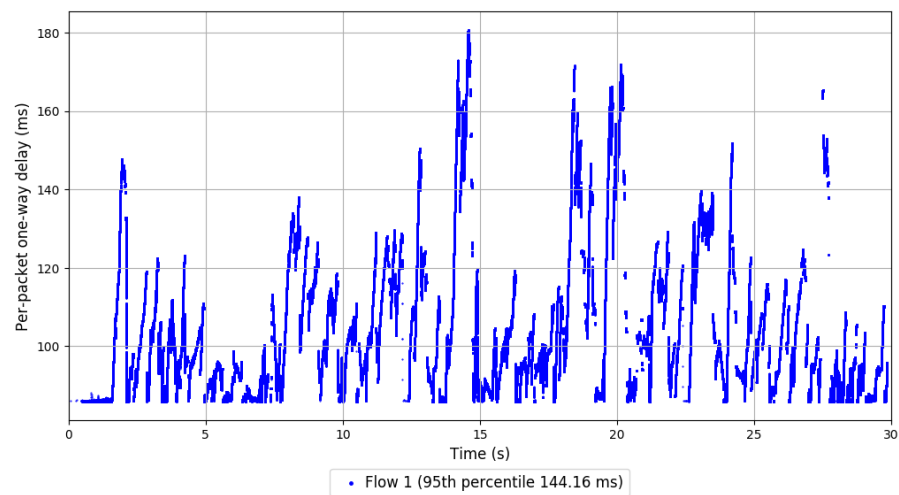
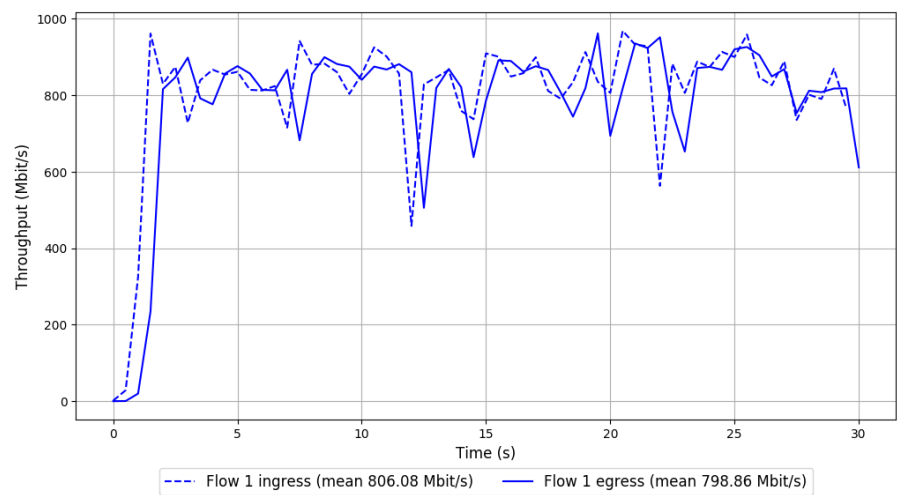
-- Flow 1:

Average throughput: 798.86 Mbit/s

95th percentile per-packet one-way delay: 144.159 ms

Loss rate: 1.47%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-07-17 18:17:12

End at: 2019-07-17 18:17:42

Local clock offset: 2.984 ms

Remote clock offset: 2.856 ms

Below is generated by plot.py at 2019-07-17 19:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 784.30 Mbit/s

95th percentile per-packet one-way delay: 151.330 ms

Loss rate: 2.99%

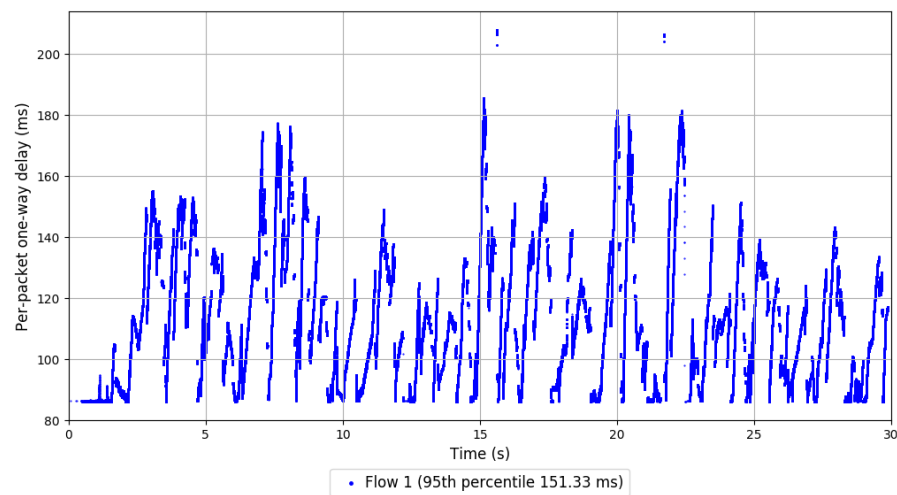
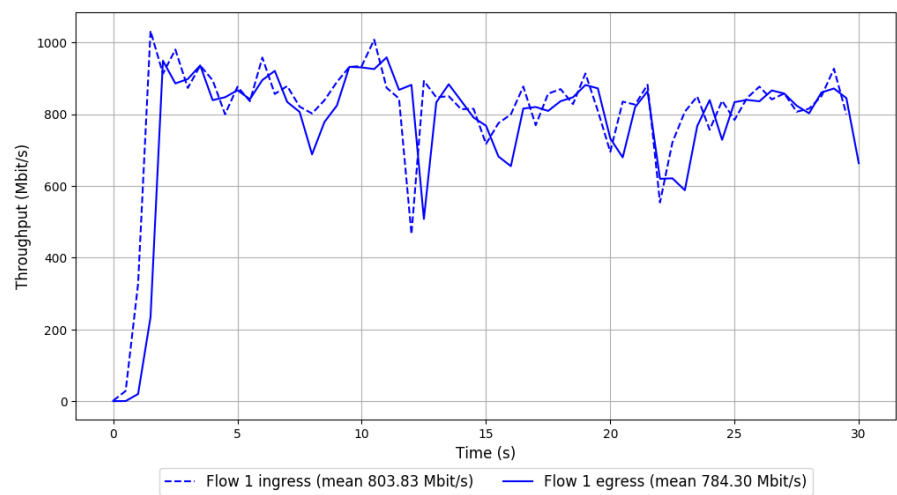
-- Flow 1:

Average throughput: 784.30 Mbit/s

95th percentile per-packet one-way delay: 151.330 ms

Loss rate: 2.99%

Run 5: Report of FillP-Sheep — Data Link

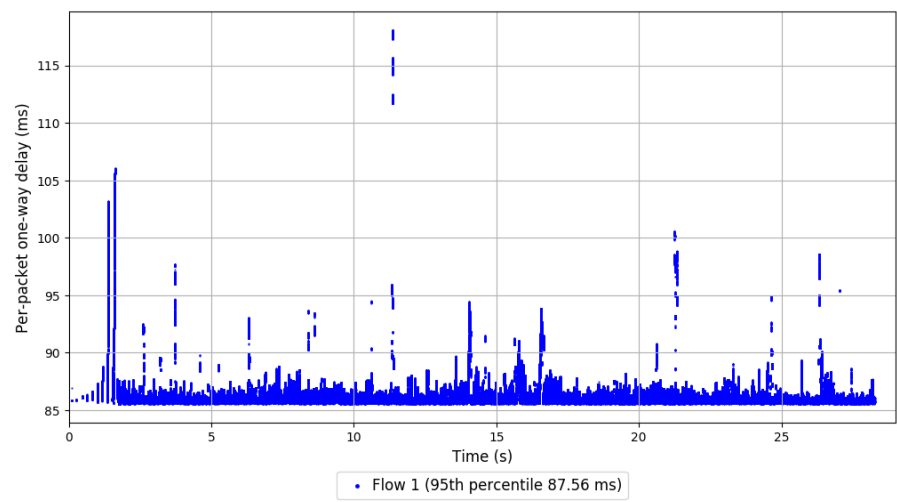
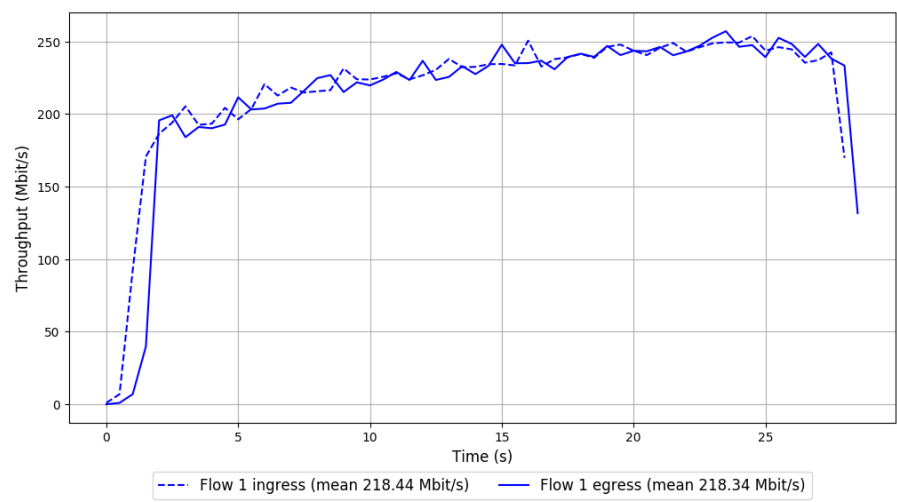


Run 1: Statistics of Indigo

Start at: 2019-07-17 16:19:57
End at: 2019-07-17 16:20:27
Local clock offset: 16.291 ms
Remote clock offset: 17.392 ms

Below is generated by plot.py at 2019-07-17 19:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.34 Mbit/s
95th percentile per-packet one-way delay: 87.562 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 218.34 Mbit/s
95th percentile per-packet one-way delay: 87.562 ms
Loss rate: 0.66%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-07-17 16:55:23

End at: 2019-07-17 16:55:53

Local clock offset: 34.027 ms

Remote clock offset: 35.55 ms

Below is generated by plot.py at 2019-07-17 19:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.06 Mbit/s

95th percentile per-packet one-way delay: 87.438 ms

Loss rate: 0.92%

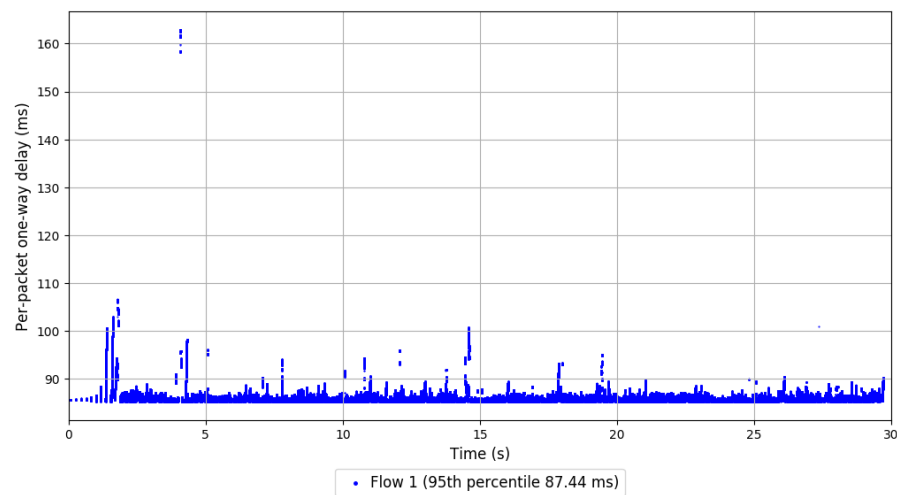
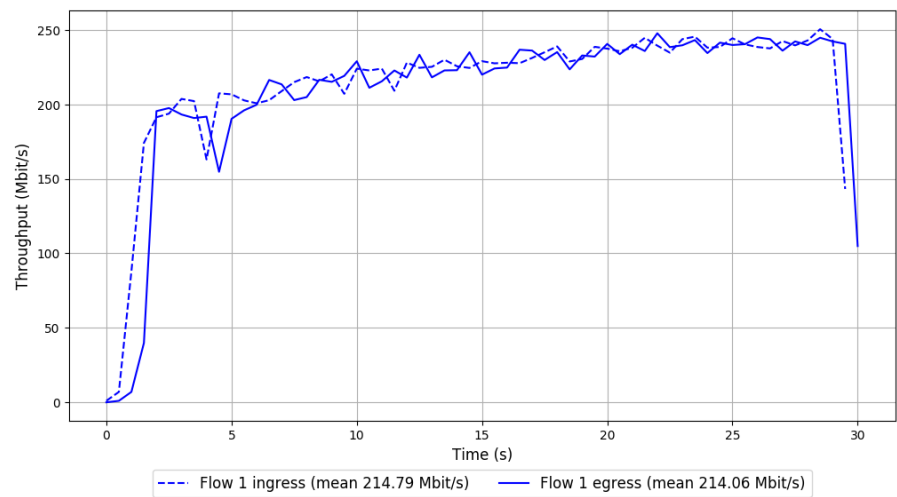
-- Flow 1:

Average throughput: 214.06 Mbit/s

95th percentile per-packet one-way delay: 87.438 ms

Loss rate: 0.92%

Run 2: Report of Indigo — Data Link

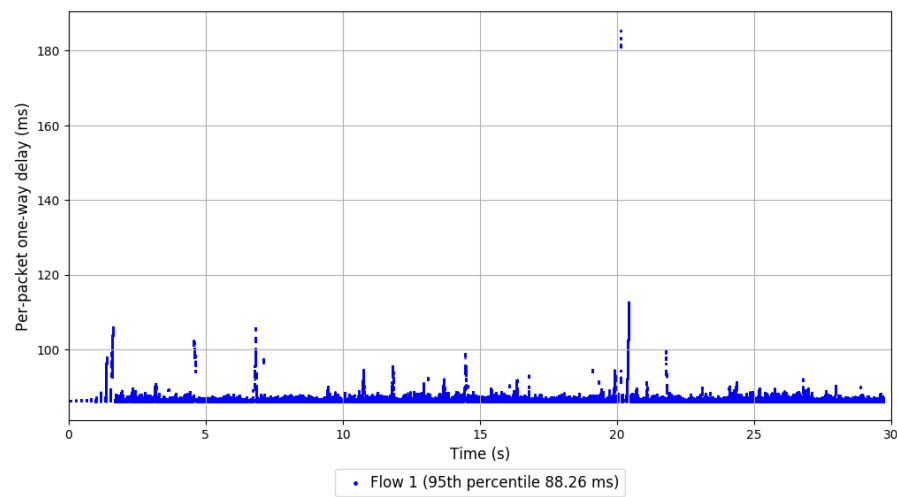
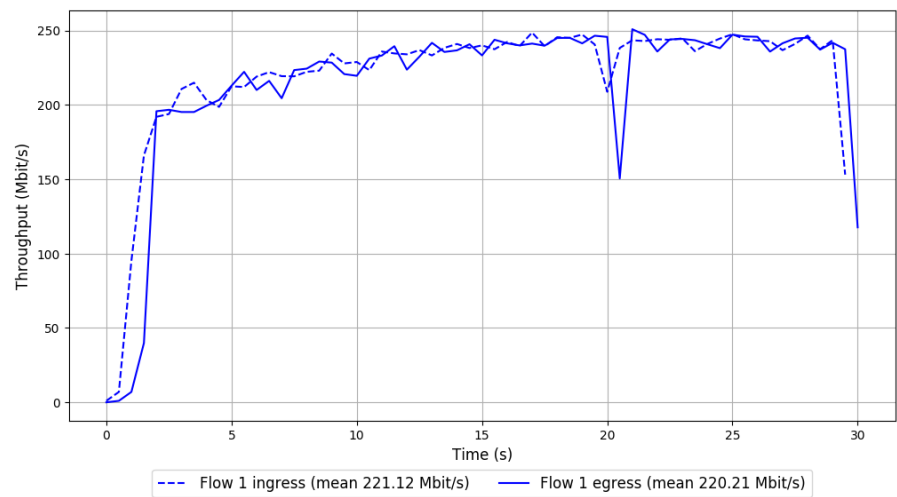


Run 3: Statistics of Indigo

Start at: 2019-07-17 17:30:37
End at: 2019-07-17 17:31:08
Local clock offset: 10.1 ms
Remote clock offset: 10.197 ms

Below is generated by plot.py at 2019-07-17 19:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 220.21 Mbit/s
95th percentile per-packet one-way delay: 88.261 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 220.21 Mbit/s
95th percentile per-packet one-way delay: 88.261 ms
Loss rate: 0.99%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-07-17 18:06:07

End at: 2019-07-17 18:06:37

Local clock offset: 3.998 ms

Remote clock offset: 4.475 ms

Below is generated by plot.py at 2019-07-17 19:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.42 Mbit/s

95th percentile per-packet one-way delay: 87.678 ms

Loss rate: 0.83%

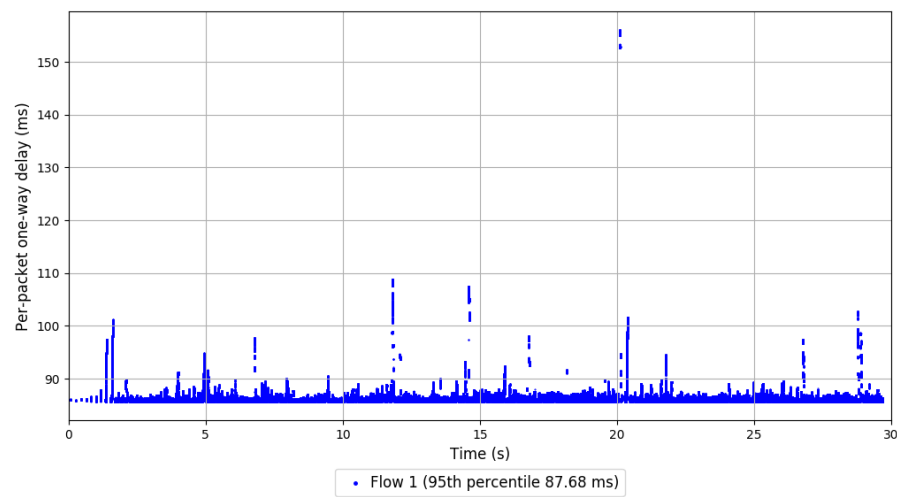
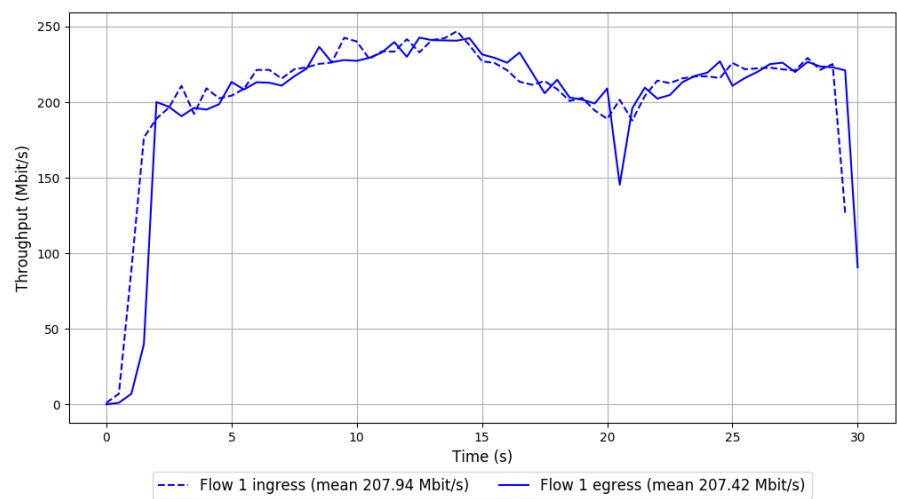
-- Flow 1:

Average throughput: 207.42 Mbit/s

95th percentile per-packet one-way delay: 87.678 ms

Loss rate: 0.83%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-07-17 18:41:36

End at: 2019-07-17 18:42:06

Local clock offset: 2.16 ms

Remote clock offset: 2.273 ms

Below is generated by plot.py at 2019-07-17 19:56:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.54 Mbit/s

95th percentile per-packet one-way delay: 88.024 ms

Loss rate: 0.84%

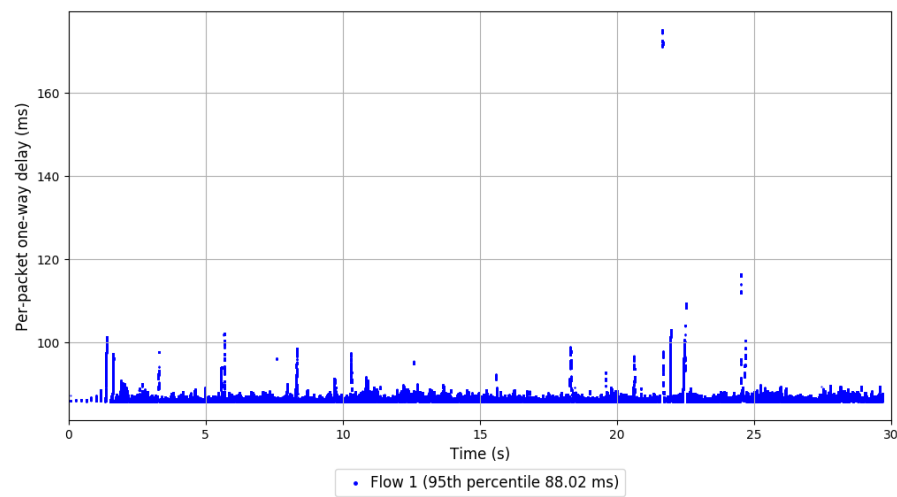
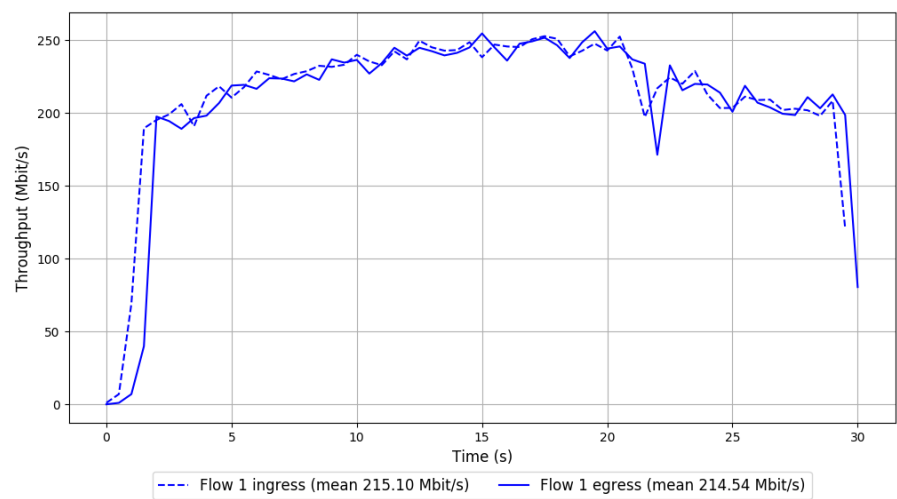
-- Flow 1:

Average throughput: 214.54 Mbit/s

95th percentile per-packet one-way delay: 88.024 ms

Loss rate: 0.84%

Run 5: Report of Indigo — Data Link

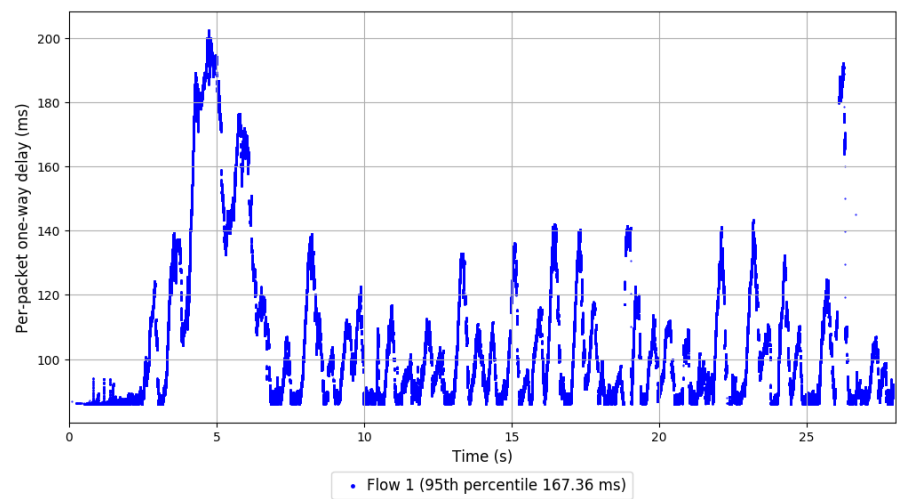
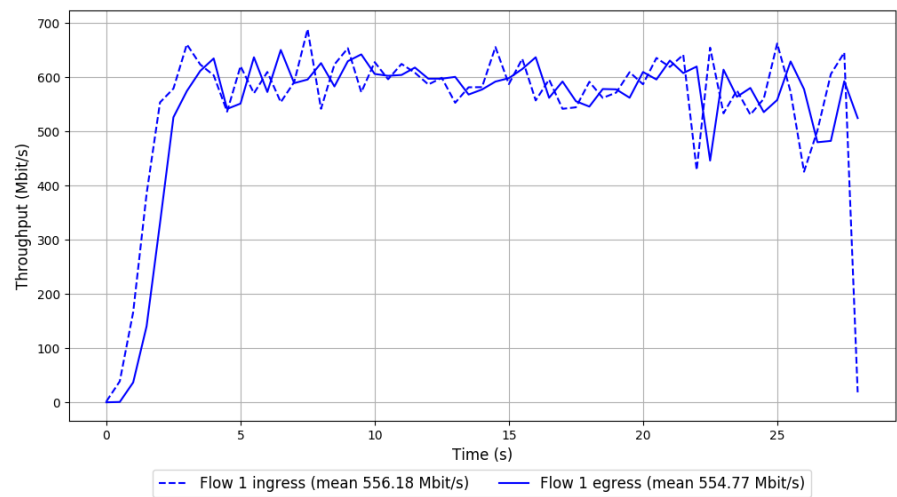


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-17 16:24:34
End at: 2019-07-17 16:25:04
Local clock offset: 22.816 ms
Remote clock offset: 23.317 ms

Below is generated by plot.py at 2019-07-17 19:56:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 554.77 Mbit/s
95th percentile per-packet one-way delay: 167.359 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 554.77 Mbit/s
95th percentile per-packet one-way delay: 167.359 ms
Loss rate: 0.87%

Run 1: Report of Indigo-MusesC3 — Data Link

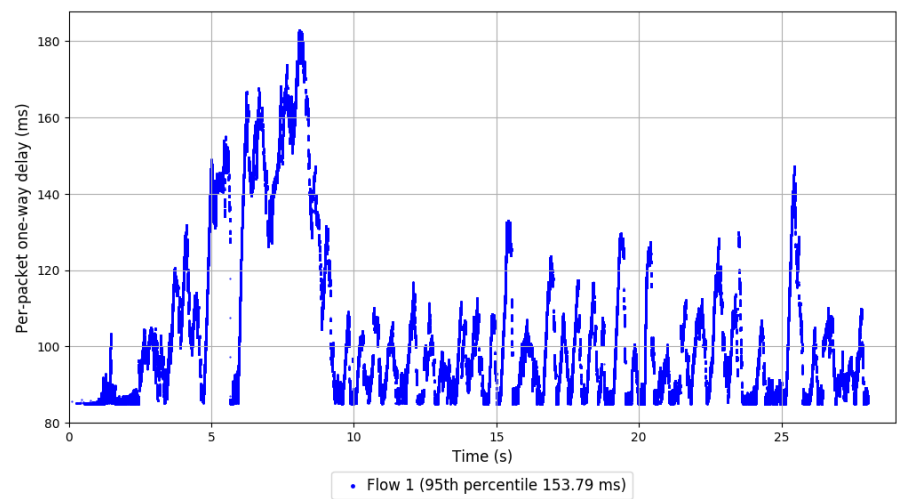
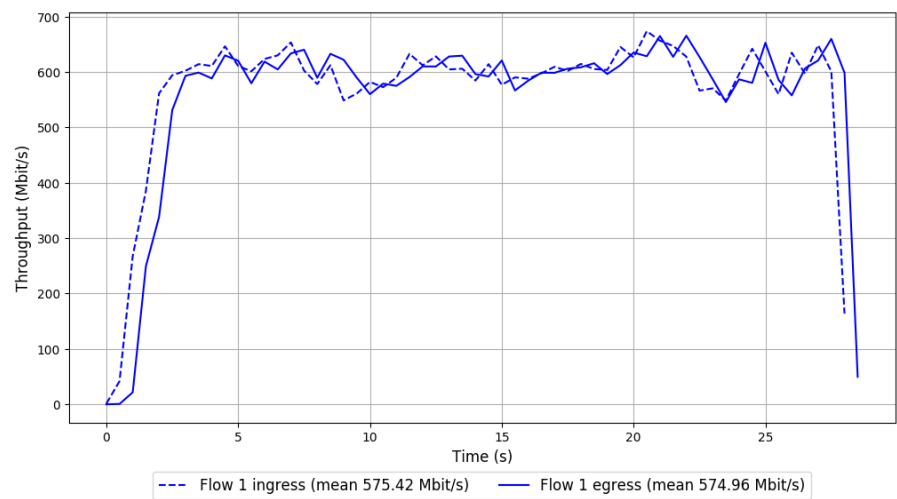


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-17 16:59:56
End at: 2019-07-17 17:00:26
Local clock offset: 38.712 ms
Remote clock offset: 40.738 ms

Below is generated by plot.py at 2019-07-17 19:57:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 574.96 Mbit/s
95th percentile per-packet one-way delay: 153.790 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 574.96 Mbit/s
95th percentile per-packet one-way delay: 153.790 ms
Loss rate: 0.70%

Run 2: Report of Indigo-MusesC3 — Data Link

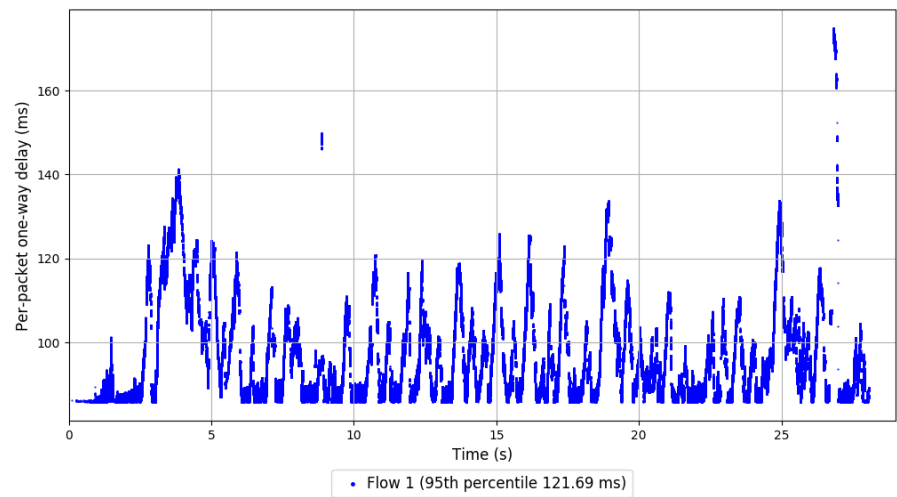
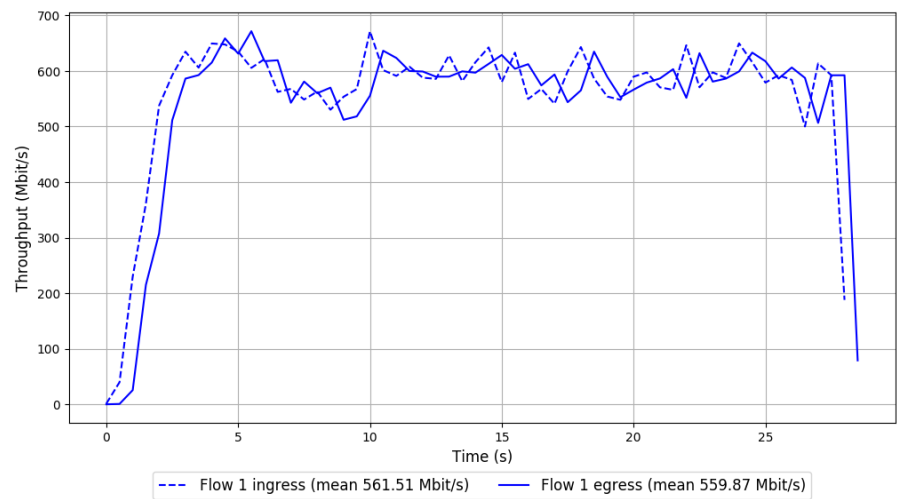


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-17 17:35:17
End at: 2019-07-17 17:35:47
Local clock offset: 10.58 ms
Remote clock offset: 10.953 ms

Below is generated by plot.py at 2019-07-17 19:58:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 559.87 Mbit/s
95th percentile per-packet one-way delay: 121.693 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 559.87 Mbit/s
95th percentile per-packet one-way delay: 121.693 ms
Loss rate: 0.90%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-17 18:10:44

End at: 2019-07-17 18:11:14

Local clock offset: 5.075 ms

Remote clock offset: 4.954 ms

Below is generated by plot.py at 2019-07-17 19:58:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.24 Mbit/s

95th percentile per-packet one-way delay: 121.851 ms

Loss rate: 0.94%

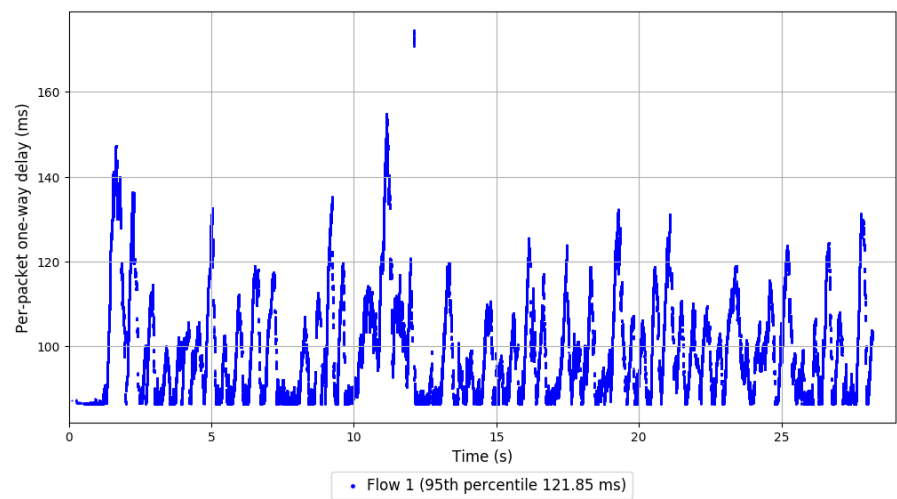
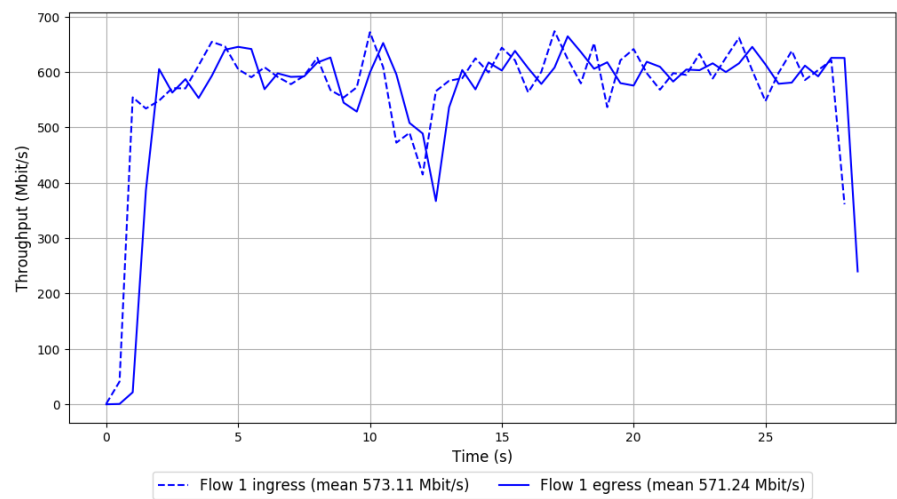
-- Flow 1:

Average throughput: 571.24 Mbit/s

95th percentile per-packet one-way delay: 121.851 ms

Loss rate: 0.94%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-17 18:46:15

End at: 2019-07-17 18:46:45

Local clock offset: 1.771 ms

Remote clock offset: 2.125 ms

Below is generated by plot.py at 2019-07-17 19:59:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.88 Mbit/s

95th percentile per-packet one-way delay: 118.647 ms

Loss rate: 0.68%

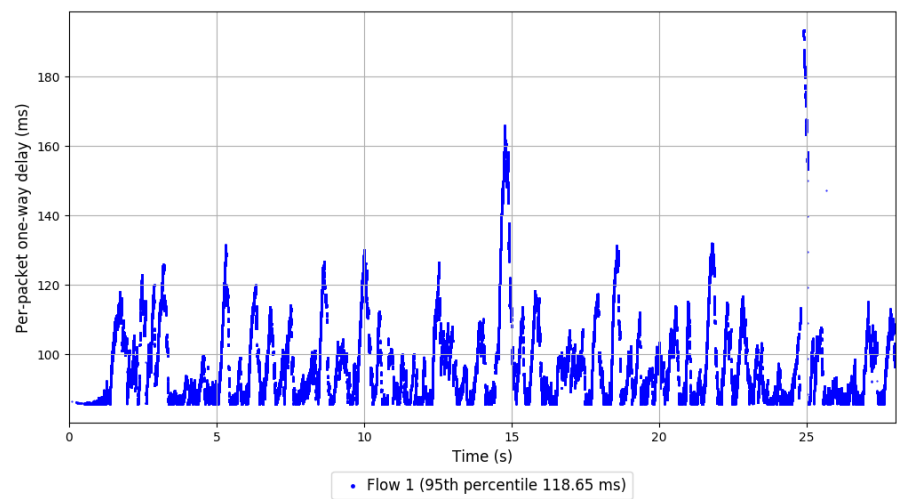
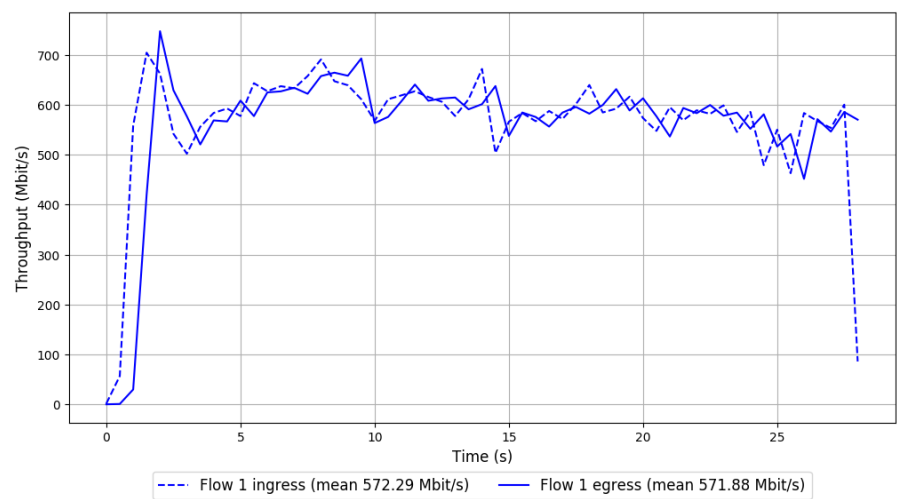
-- Flow 1:

Average throughput: 571.88 Mbit/s

95th percentile per-packet one-way delay: 118.647 ms

Loss rate: 0.68%

Run 5: Report of Indigo-MusesC3 — Data Link

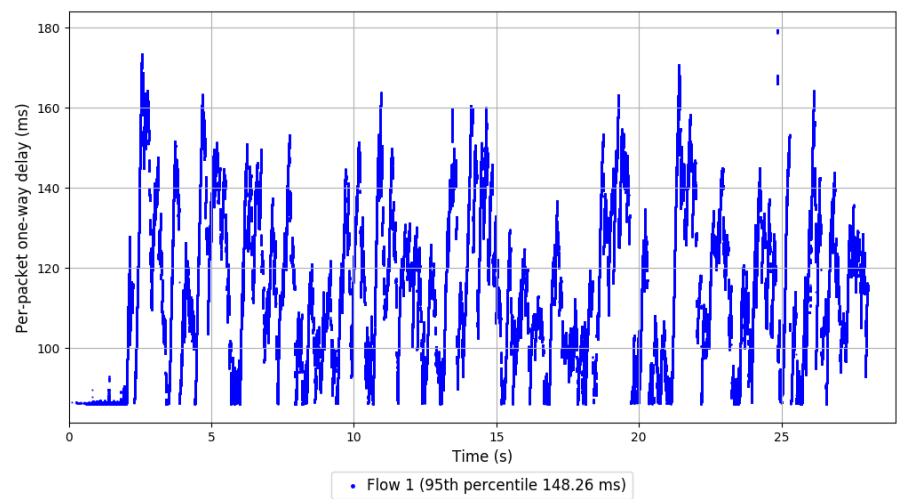
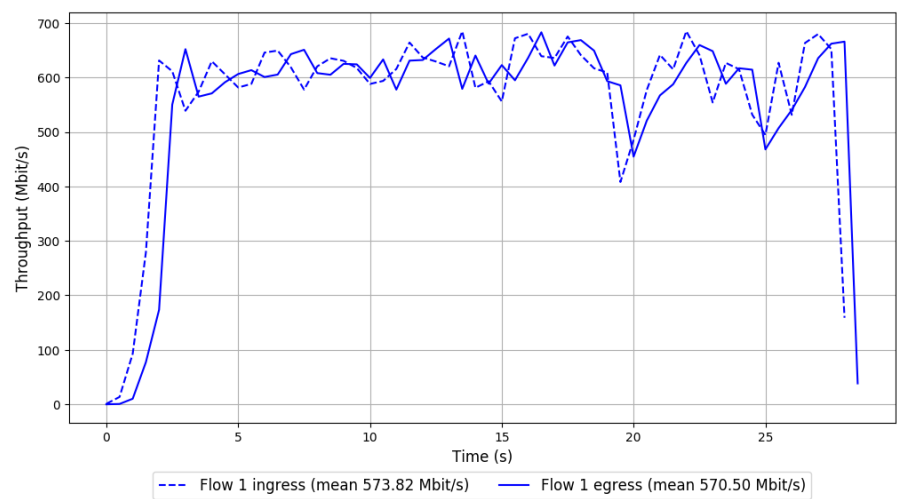


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-17 16:16:01
End at: 2019-07-17 16:16:31
Local clock offset: 14.043 ms
Remote clock offset: 14.601 ms

Below is generated by plot.py at 2019-07-17 20:00:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 570.50 Mbit/s
95th percentile per-packet one-way delay: 148.256 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 570.50 Mbit/s
95th percentile per-packet one-way delay: 148.256 ms
Loss rate: 1.18%

Run 1: Report of Indigo-MusesC5 — Data Link

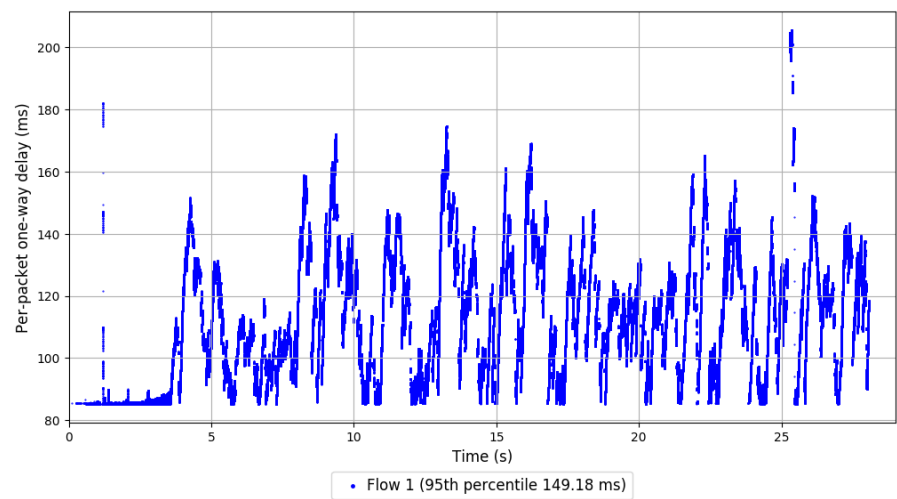
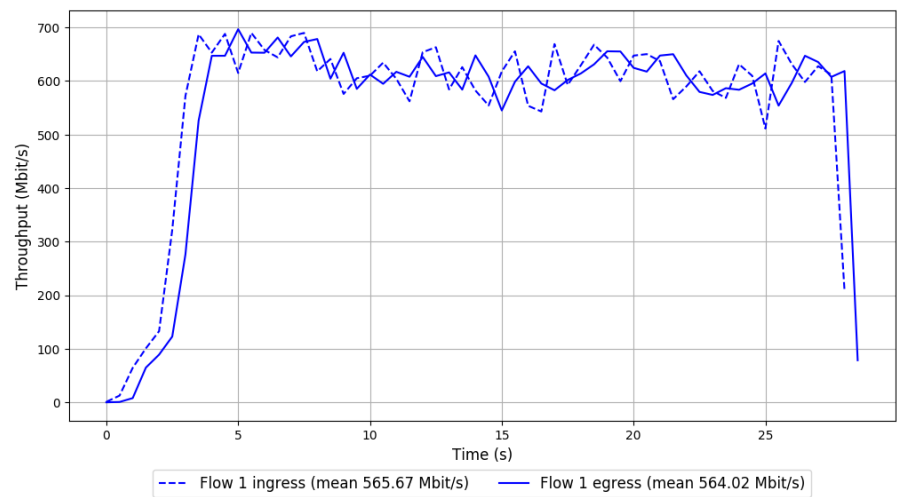


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-17 16:51:25
End at: 2019-07-17 16:51:55
Local clock offset: 29.701 ms
Remote clock offset: 31.184 ms

Below is generated by plot.py at 2019-07-17 20:02:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 564.02 Mbit/s
95th percentile per-packet one-way delay: 149.184 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 564.02 Mbit/s
95th percentile per-packet one-way delay: 149.184 ms
Loss rate: 0.91%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-17 17:26:39

End at: 2019-07-17 17:27:09

Local clock offset: 9.626 ms

Remote clock offset: 9.986 ms

Below is generated by plot.py at 2019-07-17 20:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.71 Mbit/s

95th percentile per-packet one-way delay: 144.910 ms

Loss rate: 1.15%

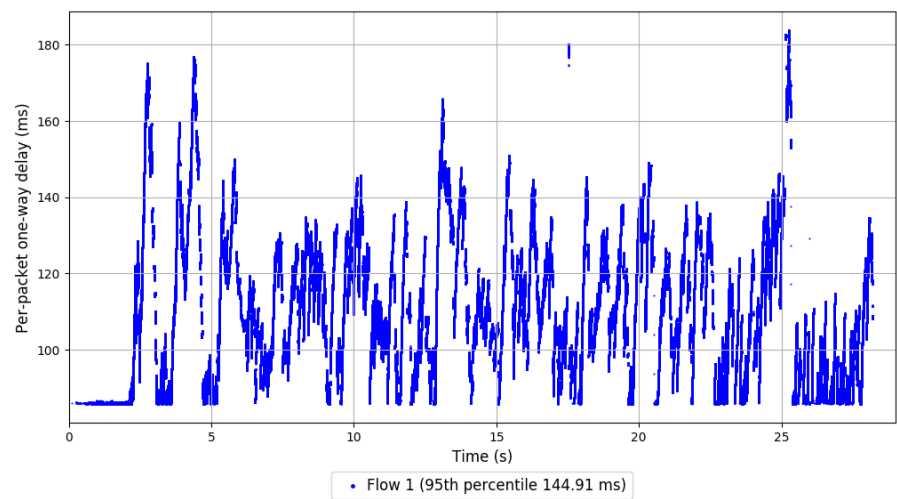
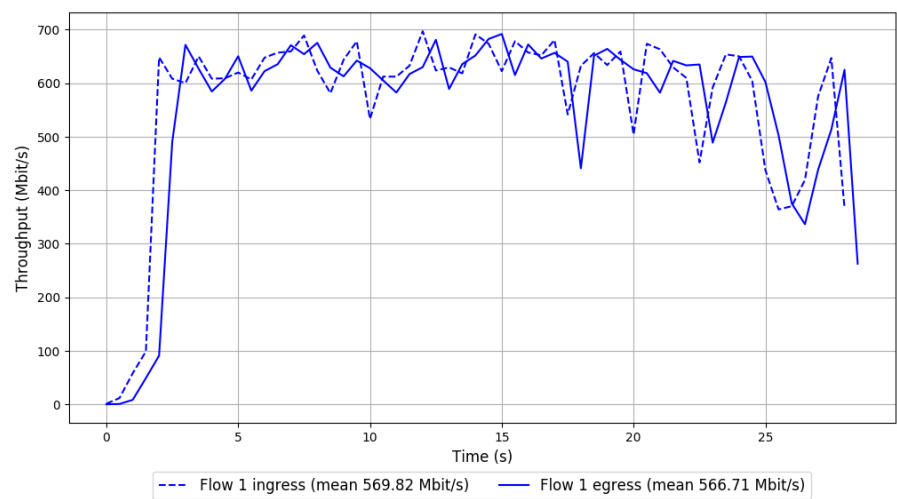
-- Flow 1:

Average throughput: 566.71 Mbit/s

95th percentile per-packet one-way delay: 144.910 ms

Loss rate: 1.15%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-17 18:02:09

End at: 2019-07-17 18:02:40

Local clock offset: 3.405 ms

Remote clock offset: 4.156 ms

Below is generated by plot.py at 2019-07-17 20:07:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.46 Mbit/s

95th percentile per-packet one-way delay: 158.799 ms

Loss rate: 0.88%

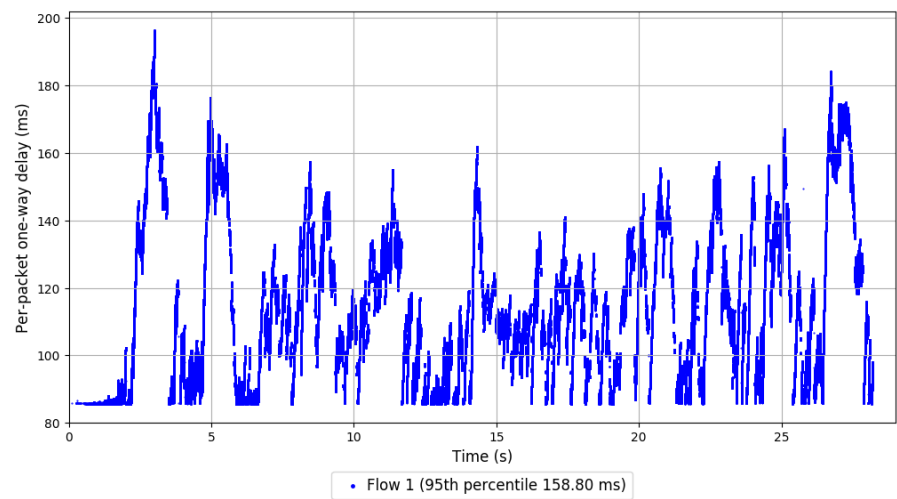
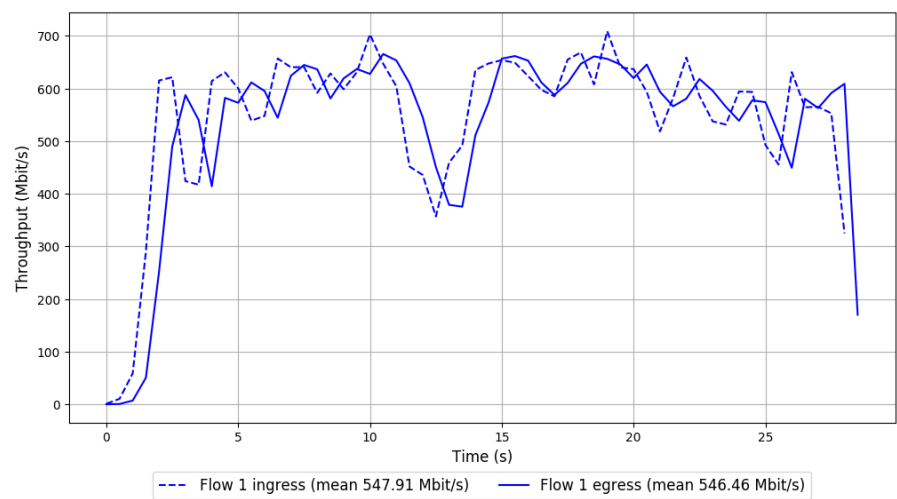
-- Flow 1:

Average throughput: 546.46 Mbit/s

95th percentile per-packet one-way delay: 158.799 ms

Loss rate: 0.88%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-17 18:37:34

End at: 2019-07-17 18:38:04

Local clock offset: 2.005 ms

Remote clock offset: 2.068 ms

Below is generated by plot.py at 2019-07-17 20:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.55 Mbit/s

95th percentile per-packet one-way delay: 169.542 ms

Loss rate: 1.26%

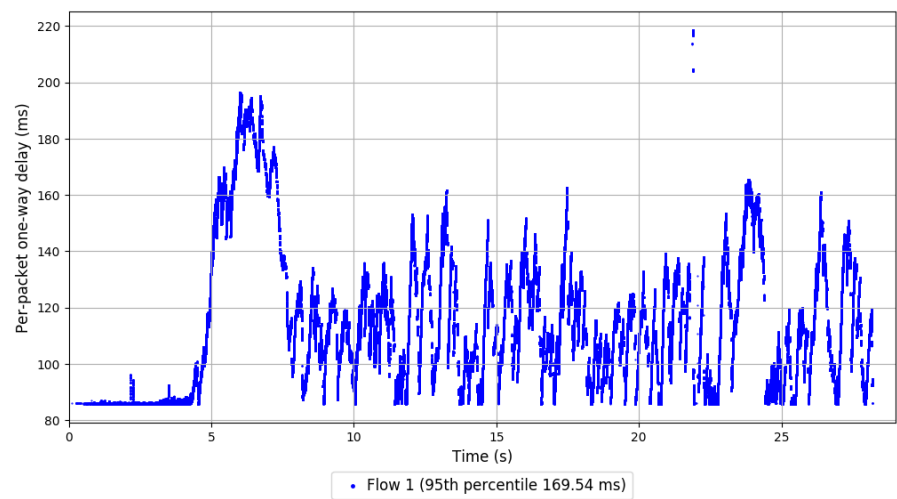
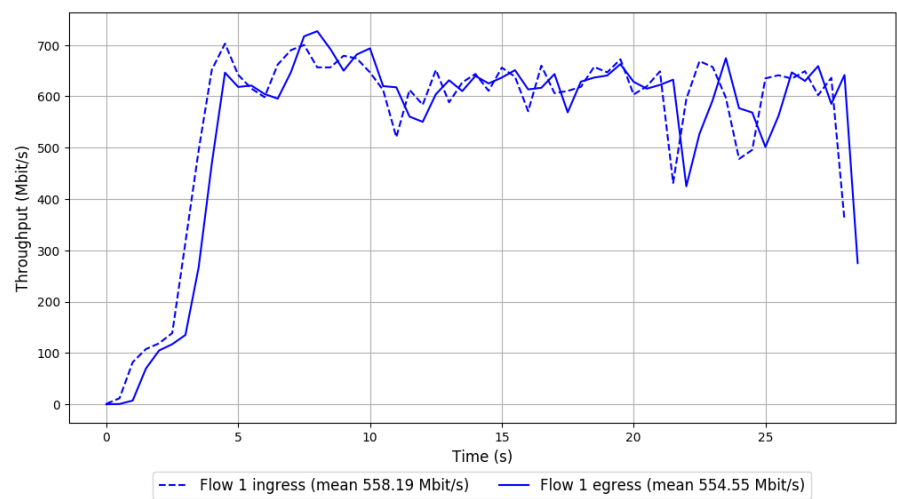
-- Flow 1:

Average throughput: 554.55 Mbit/s

95th percentile per-packet one-way delay: 169.542 ms

Loss rate: 1.26%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

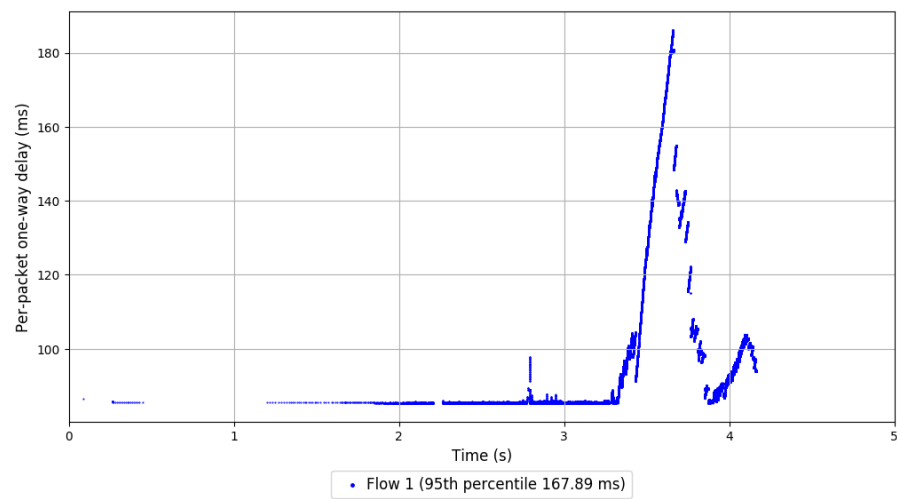
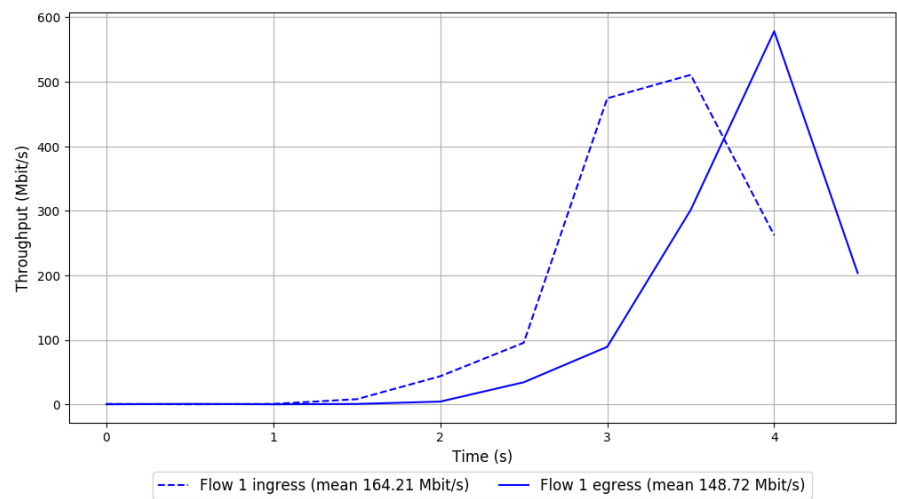
Start at: 2019-07-17 16:00:33

End at: 2019-07-17 16:01:03

Local clock offset: 6.541 ms

Remote clock offset: 7.37 ms

Run 1: Report of Indigo-MusesD — Data Link

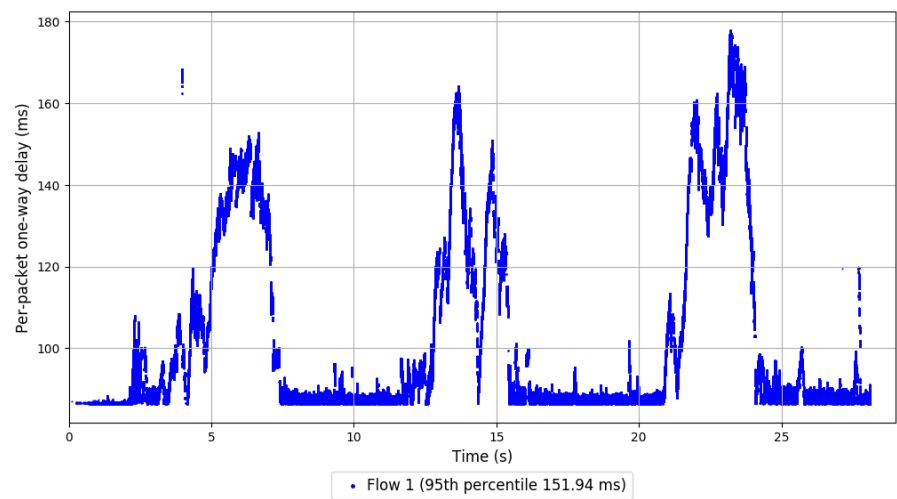
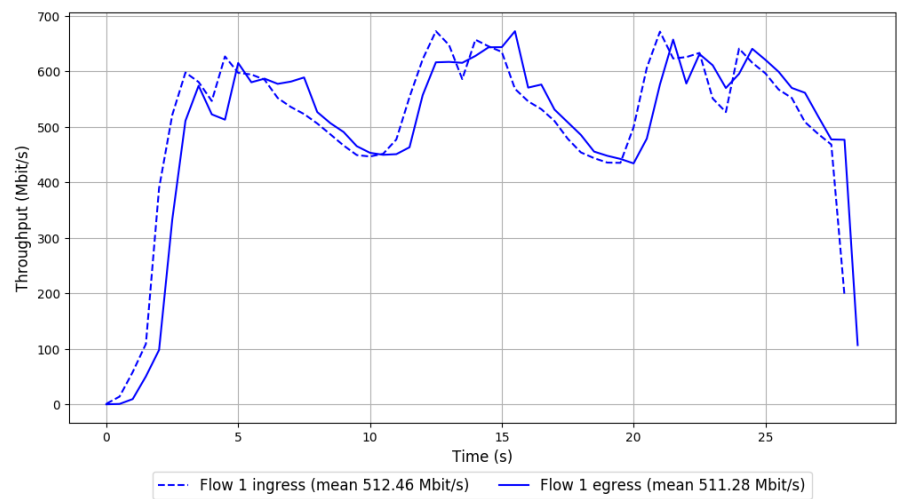


Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-17 16:35:22
End at: 2019-07-17 16:35:52
Local clock offset: 21.523 ms
Remote clock offset: 21.908 ms

Below is generated by plot.py at 2019-07-17 20:08:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 511.28 Mbit/s
95th percentile per-packet one-way delay: 151.943 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 511.28 Mbit/s
95th percentile per-packet one-way delay: 151.943 ms
Loss rate: 0.85%

Run 2: Report of Indigo-MusesD — Data Link

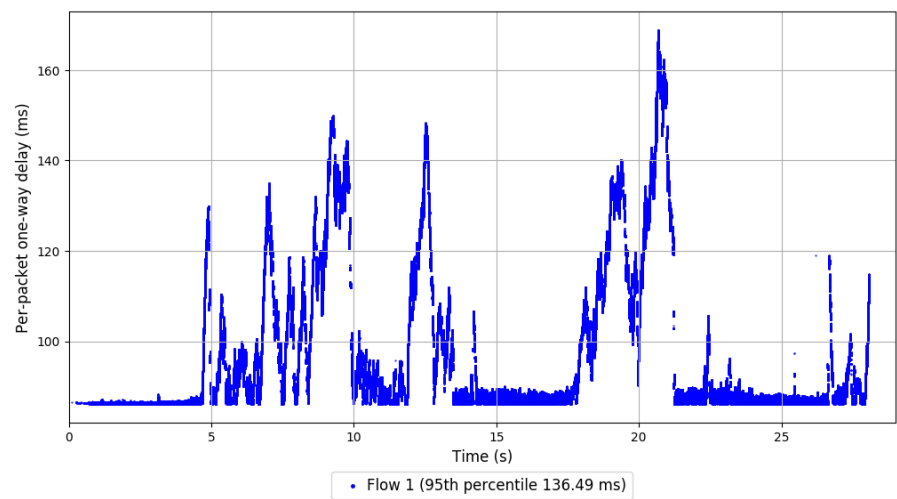
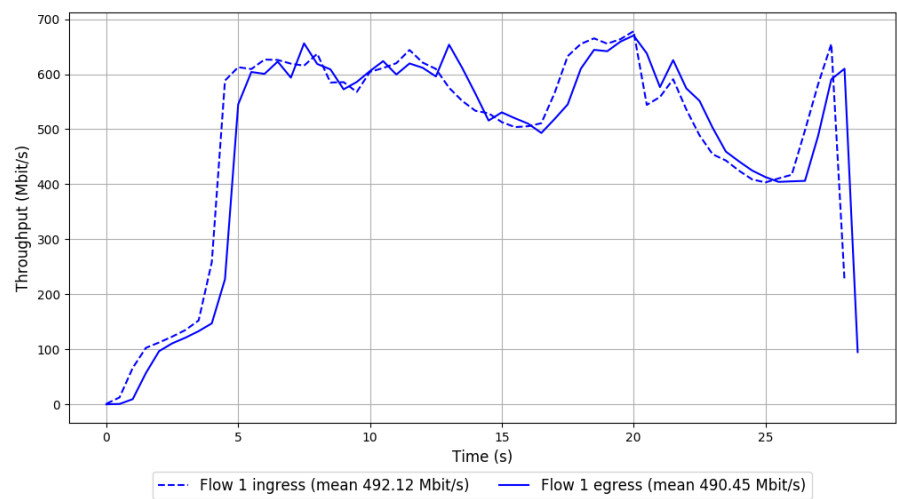


Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-17 17:10:49
End at: 2019-07-17 17:11:20
Local clock offset: 19.208 ms
Remote clock offset: 19.305 ms

Below is generated by plot.py at 2019-07-17 20:08:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 490.45 Mbit/s
95th percentile per-packet one-way delay: 136.491 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 490.45 Mbit/s
95th percentile per-packet one-way delay: 136.491 ms
Loss rate: 0.95%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-17 17:46:03

End at: 2019-07-17 17:46:33

Local clock offset: 5.273 ms

Remote clock offset: 5.021 ms

Below is generated by plot.py at 2019-07-17 20:09:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 532.50 Mbit/s

95th percentile per-packet one-way delay: 151.273 ms

Loss rate: 0.55%

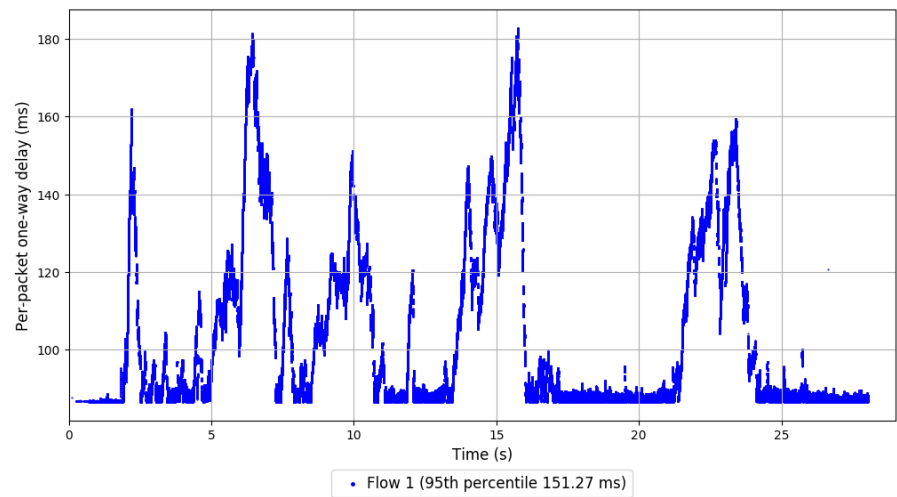
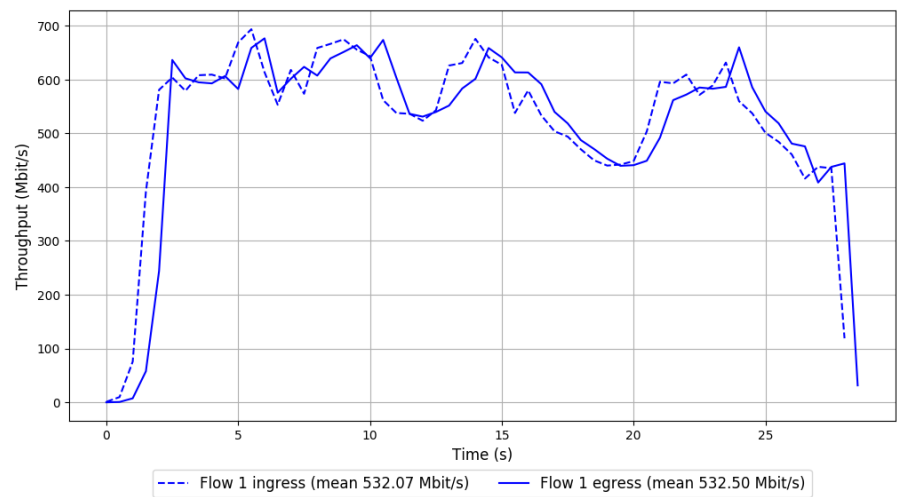
-- Flow 1:

Average throughput: 532.50 Mbit/s

95th percentile per-packet one-way delay: 151.273 ms

Loss rate: 0.55%

Run 4: Report of Indigo-MusesD — Data Link



Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-17 18:21:42

End at: 2019-07-17 18:22:12

Local clock offset: 1.994 ms

Remote clock offset: 2.182 ms

Below is generated by plot.py at 2019-07-17 20:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.78 Mbit/s

95th percentile per-packet one-way delay: 151.077 ms

Loss rate: 1.31%

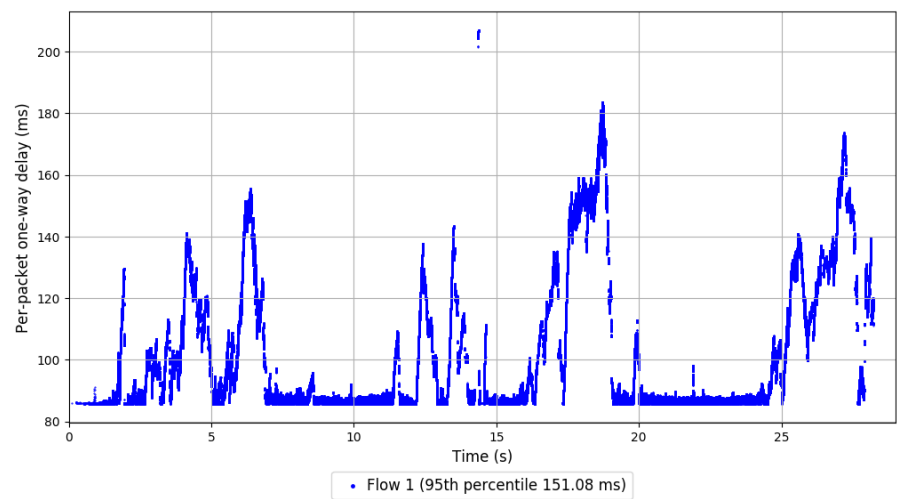
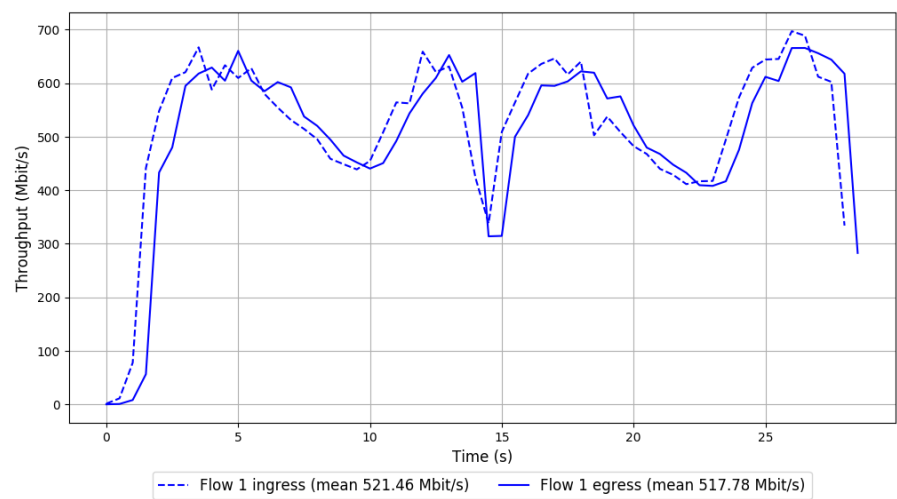
-- Flow 1:

Average throughput: 517.78 Mbit/s

95th percentile per-packet one-way delay: 151.077 ms

Loss rate: 1.31%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-17 16:29:24

End at: 2019-07-17 16:29:54

Local clock offset: 26.954 ms

Remote clock offset: 27.357 ms

Below is generated by plot.py at 2019-07-17 20:13:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 595.91 Mbit/s

95th percentile per-packet one-way delay: 178.082 ms

Loss rate: 1.00%

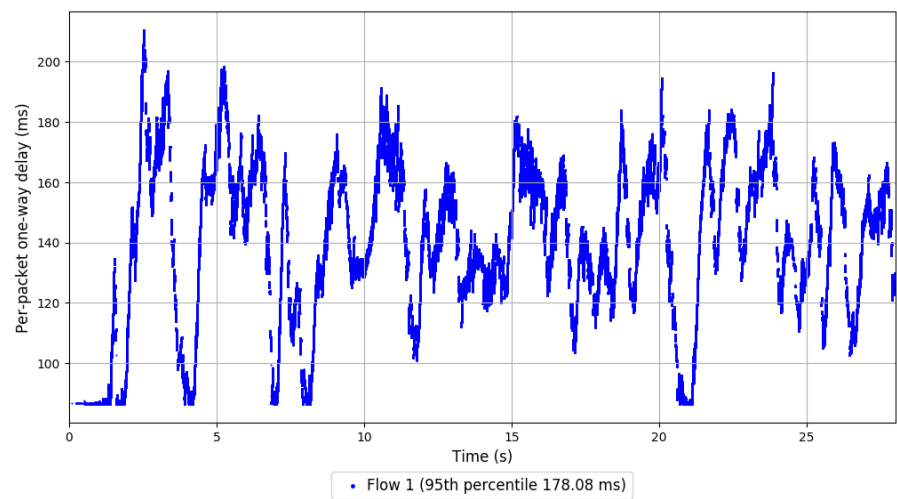
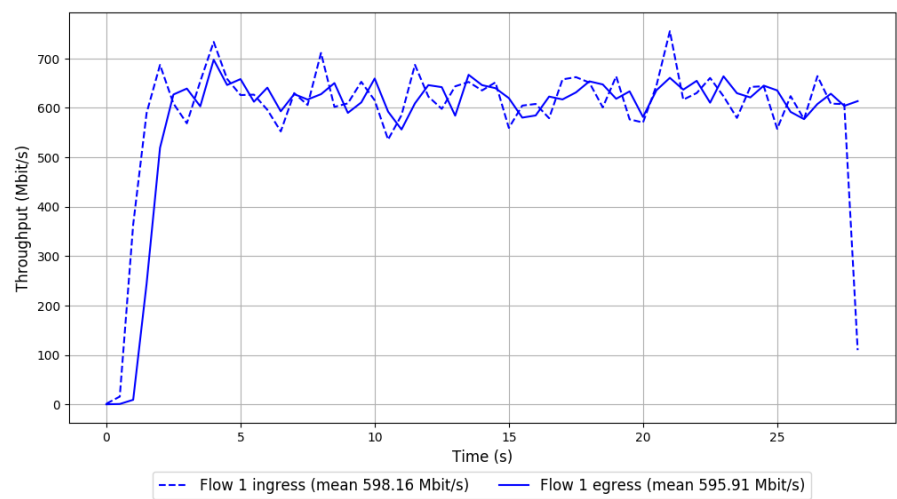
-- Flow 1:

Average throughput: 595.91 Mbit/s

95th percentile per-packet one-way delay: 178.082 ms

Loss rate: 1.00%

Run 1: Report of Indigo-MusesT — Data Link

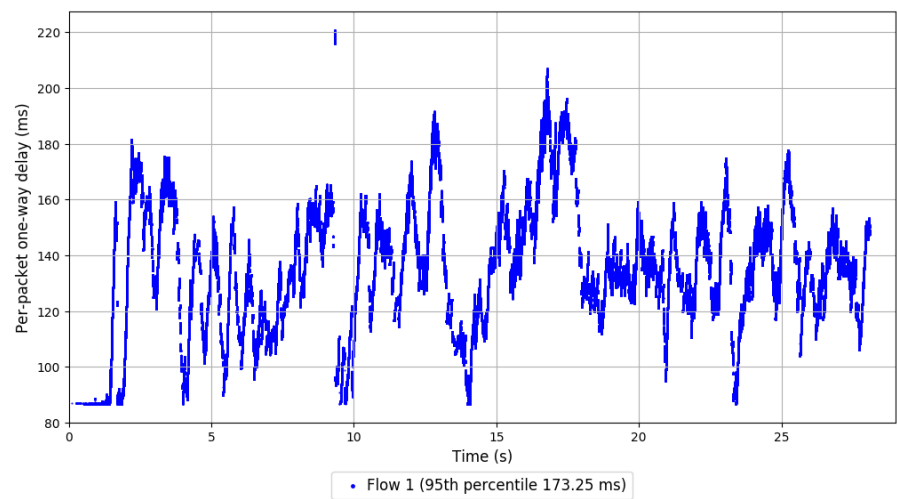
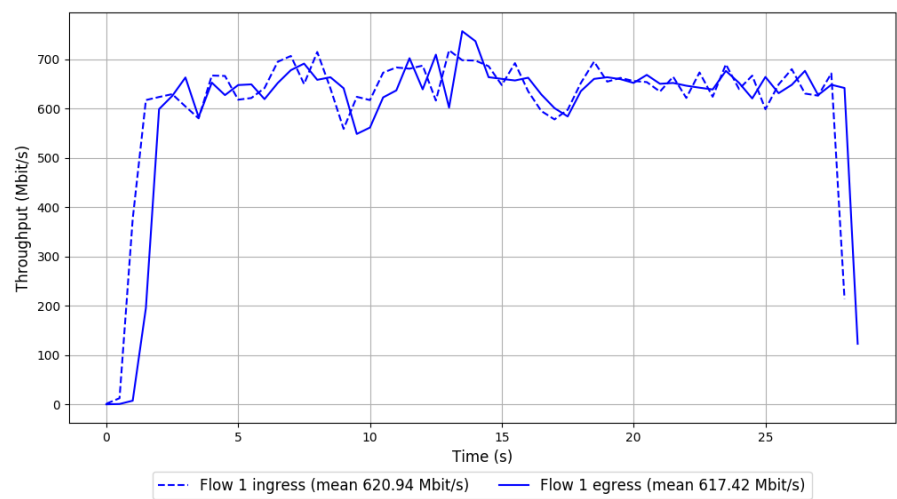


Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-17 17:04:47
End at: 2019-07-17 17:05:17
Local clock offset: 34.385 ms
Remote clock offset: 34.266 ms

Below is generated by plot.py at 2019-07-17 20:14:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 617.42 Mbit/s
95th percentile per-packet one-way delay: 173.250 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 617.42 Mbit/s
95th percentile per-packet one-way delay: 173.250 ms
Loss rate: 1.15%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-17 17:40:02

End at: 2019-07-17 17:40:32

Local clock offset: 7.923 ms

Remote clock offset: 8.083 ms

Below is generated by plot.py at 2019-07-17 20:19:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 611.06 Mbit/s

95th percentile per-packet one-way delay: 179.492 ms

Loss rate: 1.05%

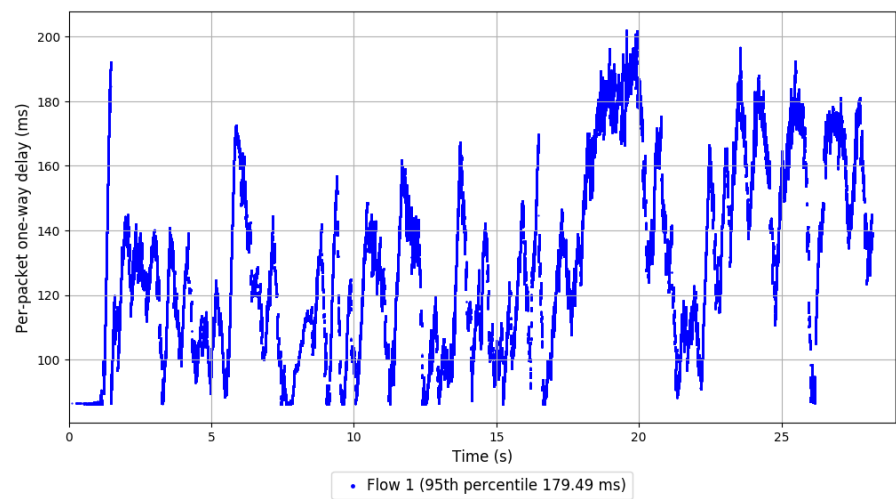
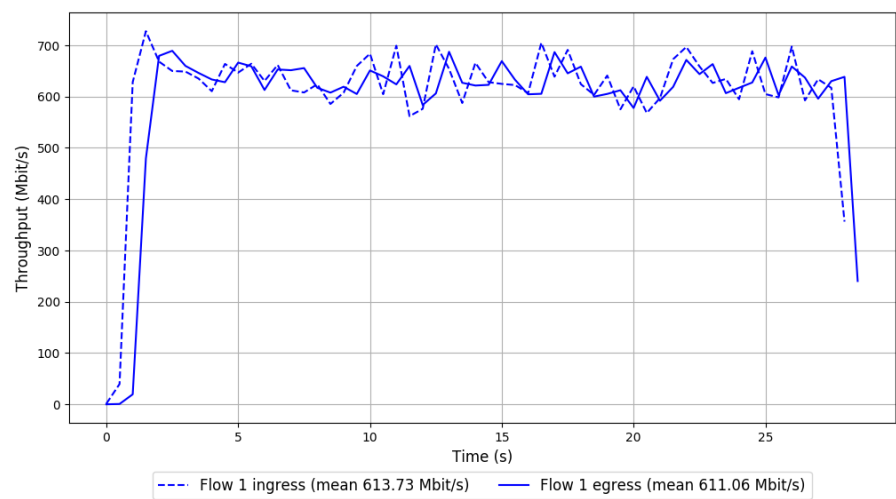
-- Flow 1:

Average throughput: 611.06 Mbit/s

95th percentile per-packet one-way delay: 179.492 ms

Loss rate: 1.05%

Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-17 18:15:34

End at: 2019-07-17 18:16:04

Local clock offset: 2.683 ms

Remote clock offset: 3.199 ms

Below is generated by plot.py at 2019-07-17 20:19:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.68 Mbit/s

95th percentile per-packet one-way delay: 175.115 ms

Loss rate: 1.21%

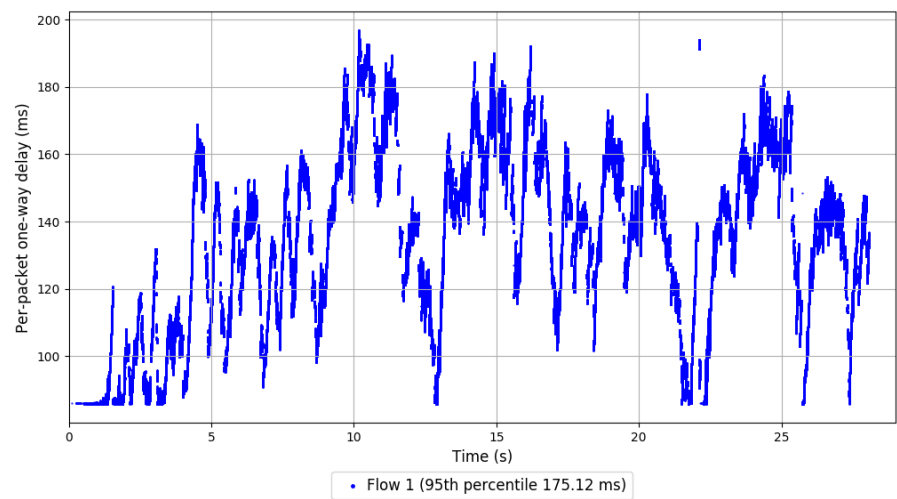
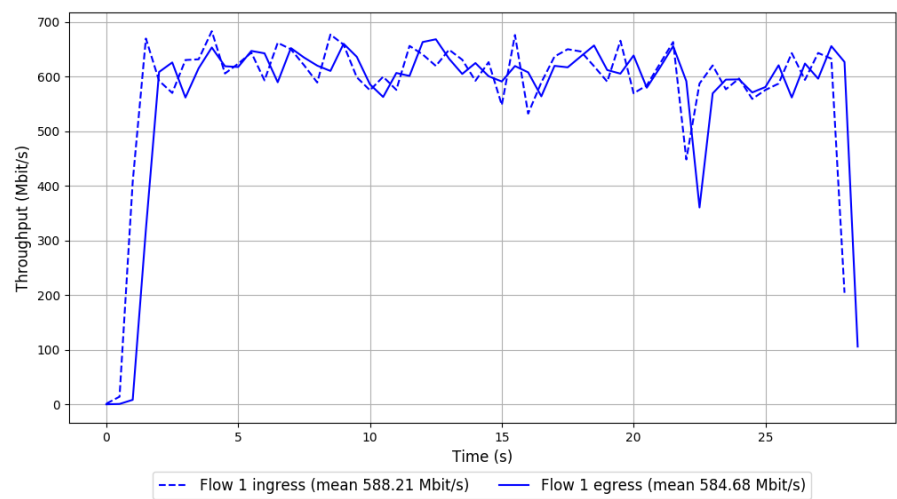
-- Flow 1:

Average throughput: 584.68 Mbit/s

95th percentile per-packet one-way delay: 175.115 ms

Loss rate: 1.21%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-17 18:51:12

End at: 2019-07-17 18:51:42

Local clock offset: 1.095 ms

Remote clock offset: 1.342 ms

Below is generated by plot.py at 2019-07-17 20:19:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.40 Mbit/s

95th percentile per-packet one-way delay: 166.918 ms

Loss rate: 1.14%

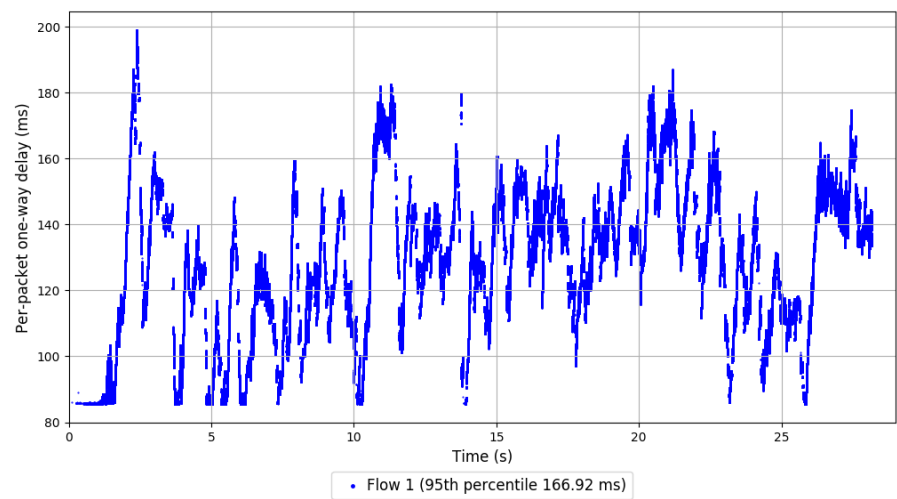
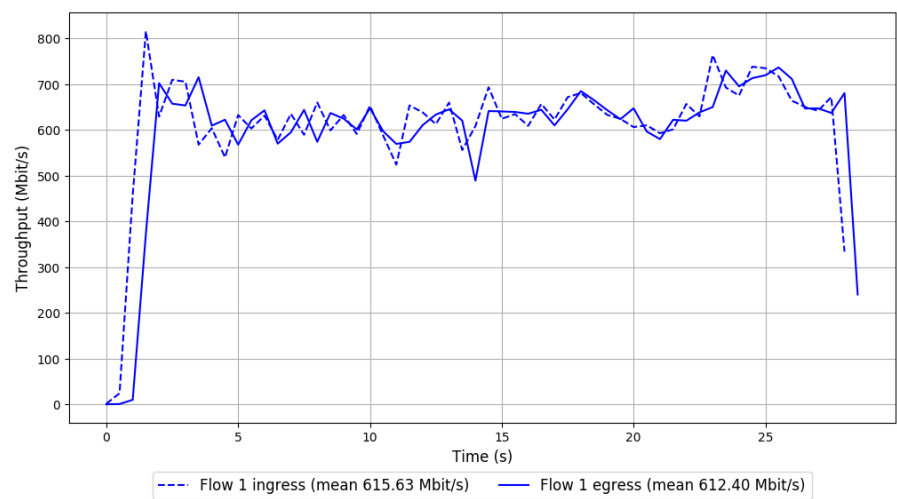
-- Flow 1:

Average throughput: 612.40 Mbit/s

95th percentile per-packet one-way delay: 166.918 ms

Loss rate: 1.14%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-07-17 15:59:22

End at: 2019-07-17 15:59:52

Local clock offset: 7.256 ms

Remote clock offset: 6.595 ms

Below is generated by plot.py at 2019-07-17 20:19:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 88.307 ms

Loss rate: 1.16%

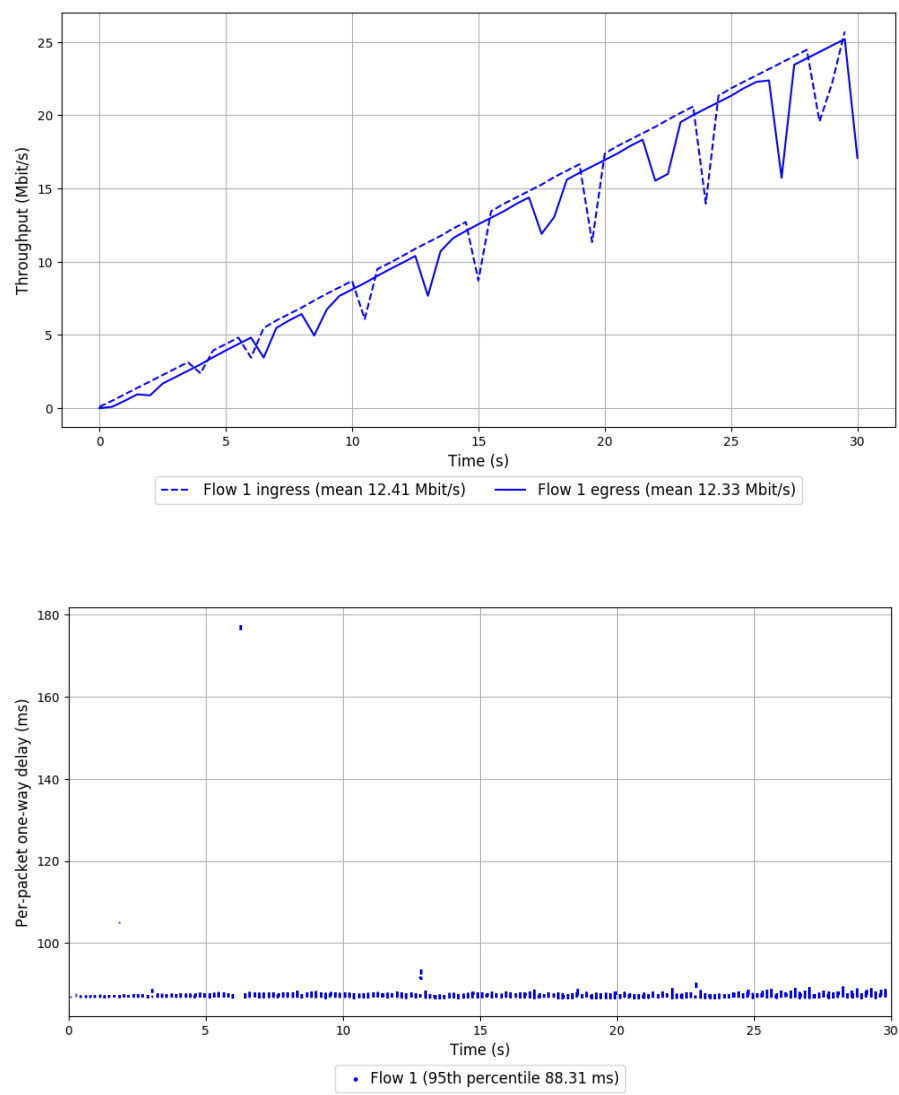
-- Flow 1:

Average throughput: 12.33 Mbit/s

95th percentile per-packet one-way delay: 88.307 ms

Loss rate: 1.16%

Run 1: Report of LEDBAT — Data Link

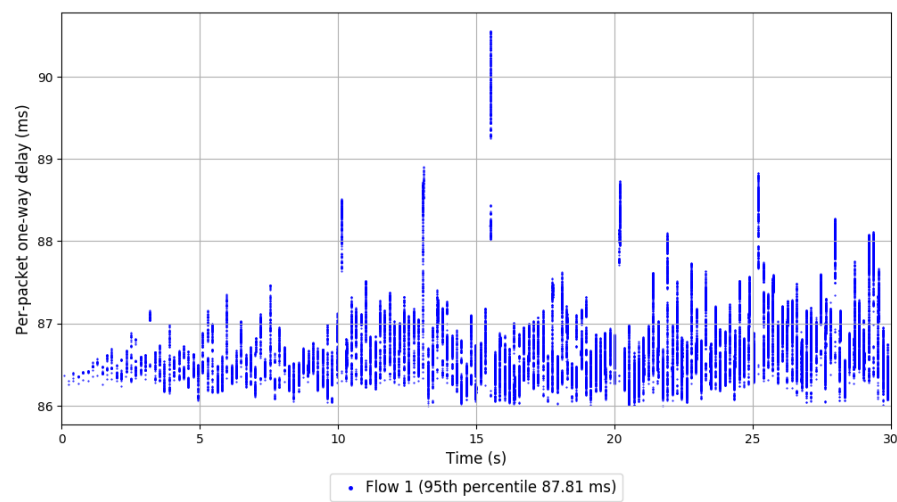
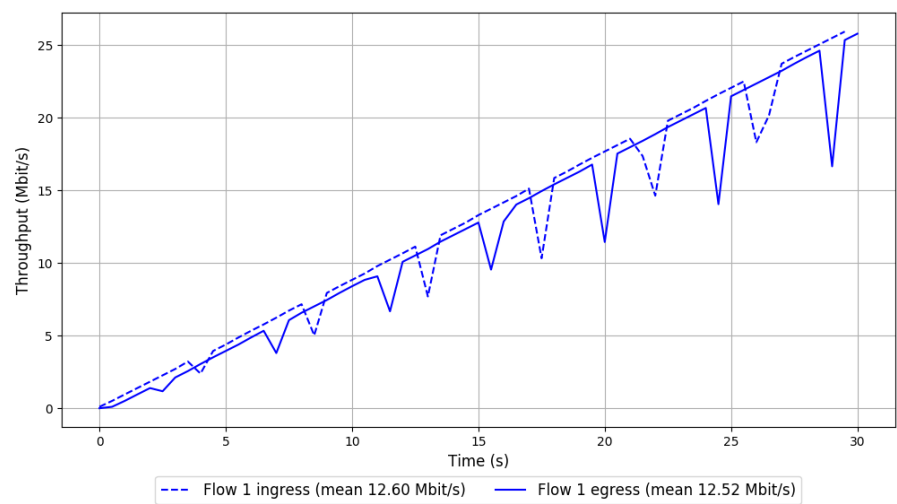


Run 2: Statistics of LEDBAT

Start at: 2019-07-17 16:34:11
End at: 2019-07-17 16:34:41
Local clock offset: 21.546 ms
Remote clock offset: 22.252 ms

Below is generated by plot.py at 2019-07-17 20:19:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 87.814 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.52 Mbit/s
95th percentile per-packet one-way delay: 87.814 ms
Loss rate: 1.15%

Run 2: Report of LEDBAT — Data Link

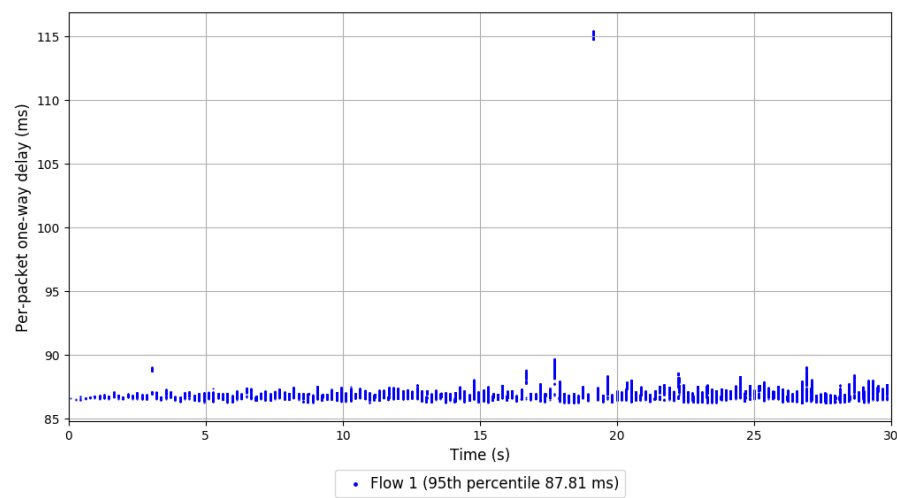
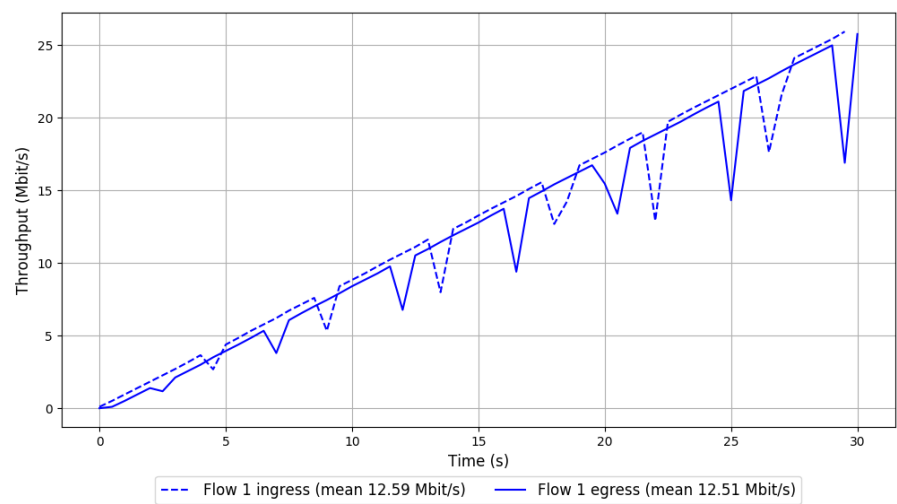


Run 3: Statistics of LEDBAT

Start at: 2019-07-17 17:09:39
End at: 2019-07-17 17:10:09
Local clock offset: 21.413 ms
Remote clock offset: 21.462 ms

Below is generated by plot.py at 2019-07-17 20:19:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 87.813 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.51 Mbit/s
95th percentile per-packet one-way delay: 87.813 ms
Loss rate: 1.15%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-07-17 17:44:52

End at: 2019-07-17 17:45:22

Local clock offset: 5.141 ms

Remote clock offset: 5.389 ms

Below is generated by plot.py at 2019-07-17 20:19:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 87.970 ms

Loss rate: 1.14%

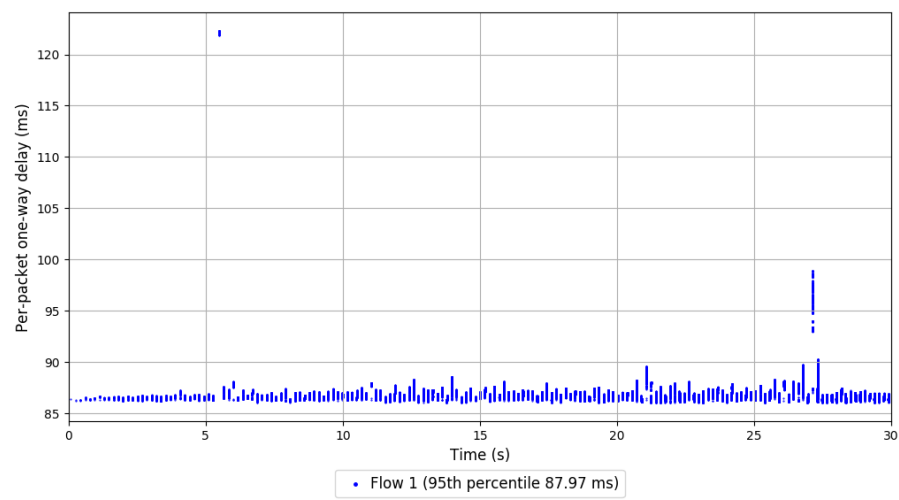
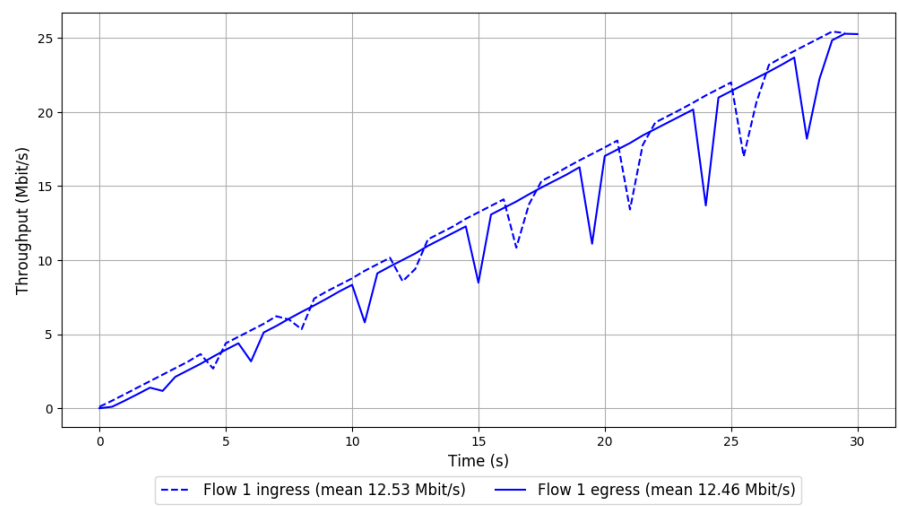
-- Flow 1:

Average throughput: 12.46 Mbit/s

95th percentile per-packet one-way delay: 87.970 ms

Loss rate: 1.14%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-07-17 18:20:31

End at: 2019-07-17 18:21:01

Local clock offset: 2.564 ms

Remote clock offset: 2.281 ms

Below is generated by plot.py at 2019-07-17 20:19:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 87.827 ms

Loss rate: 1.15%

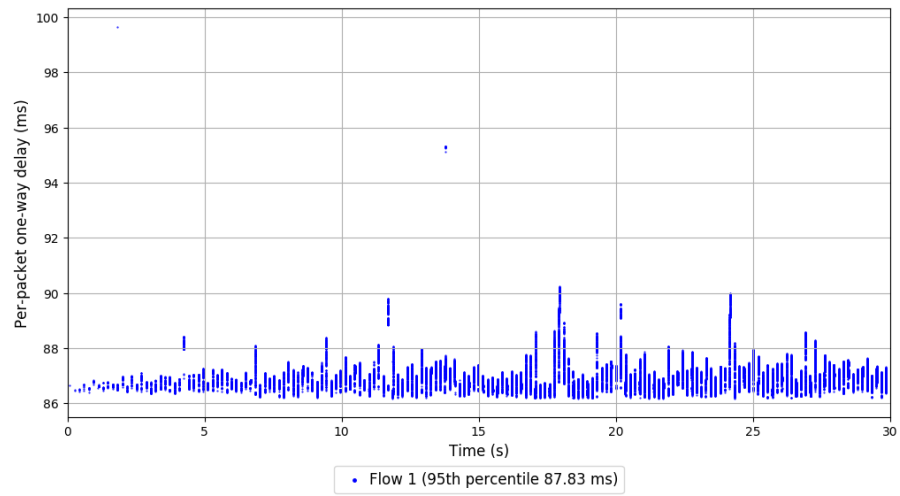
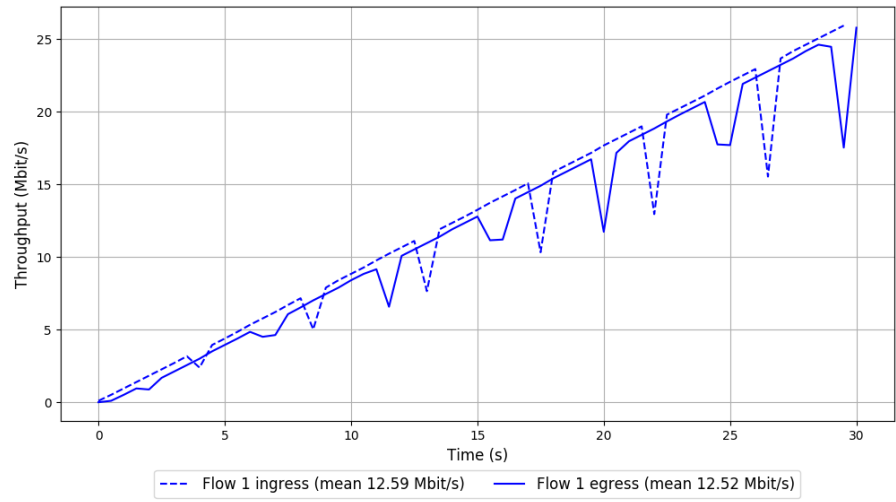
-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 87.827 ms

Loss rate: 1.15%

Run 5: Report of LEDBAT — Data Link

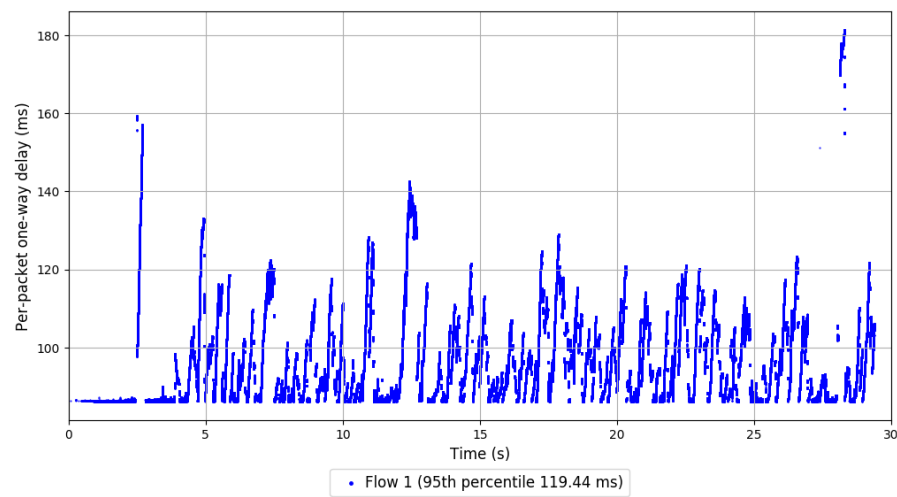
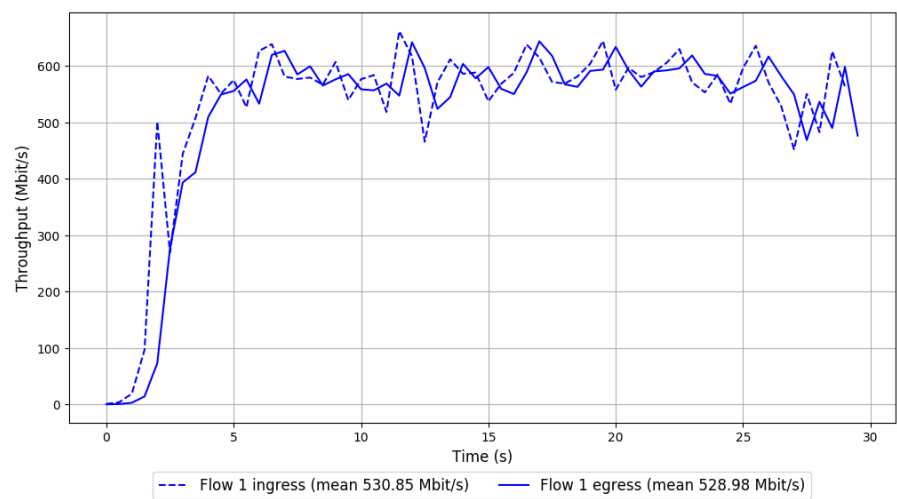


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-17 16:14:25
End at: 2019-07-17 16:14:55
Local clock offset: 14.559 ms
Remote clock offset: 14.965 ms

# Below is generated by plot.py at 2019-07-17 20:20:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 528.98 Mbit/s
95th percentile per-packet one-way delay: 119.436 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 528.98 Mbit/s
95th percentile per-packet one-way delay: 119.436 ms
Loss rate: 0.93%
```

Run 1: Report of Muses_DecisionTree — Data Link

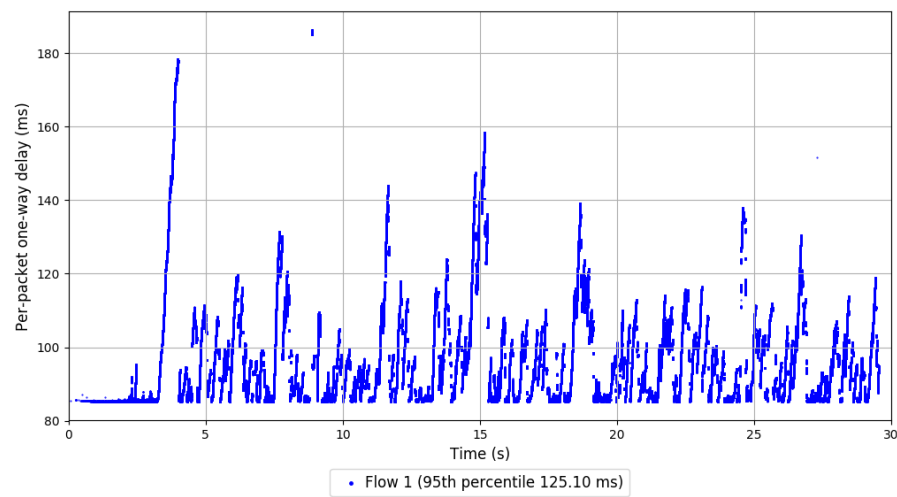
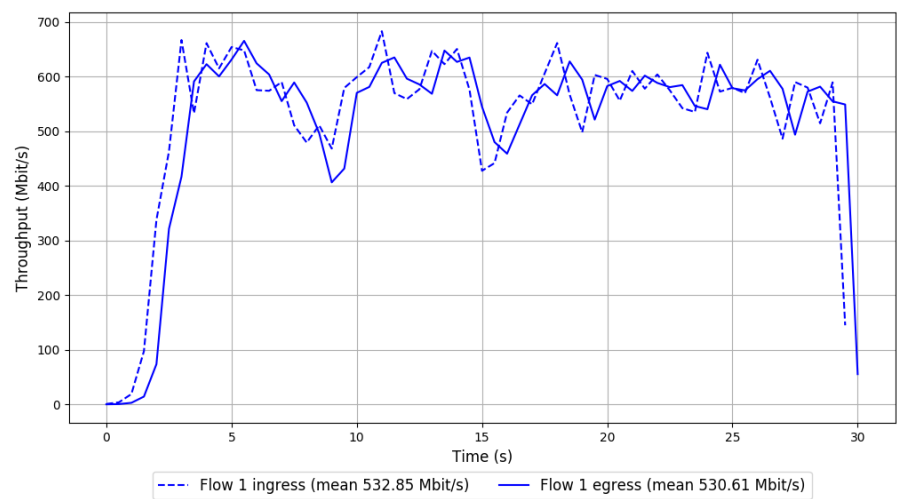


Run 2: Statistics of Muses_DecisionTree

Start at: 2019-07-17 16:49:49
End at: 2019-07-17 16:50:19
Local clock offset: 28.051 ms
Remote clock offset: 29.524 ms

Below is generated by plot.py at 2019-07-17 20:20:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 530.61 Mbit/s
95th percentile per-packet one-way delay: 125.098 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 530.61 Mbit/s
95th percentile per-packet one-way delay: 125.098 ms
Loss rate: 1.00%

Run 2: Report of Muses_DecisionTree — Data Link

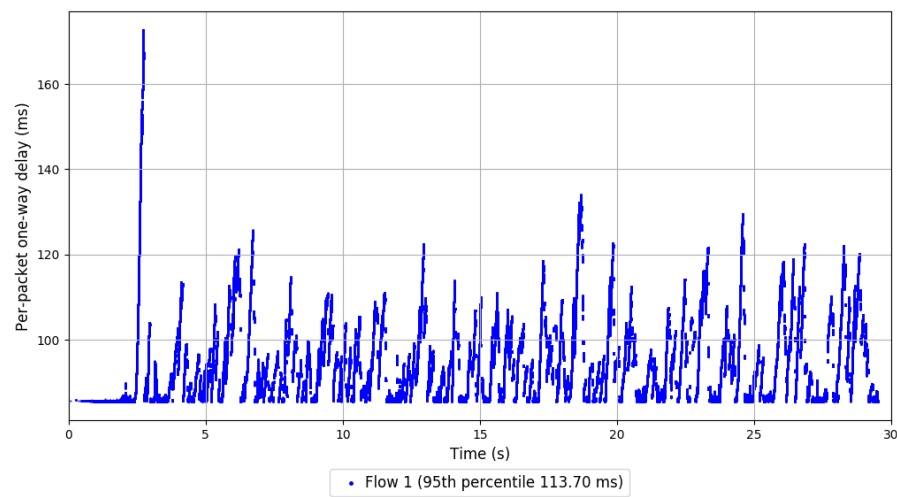
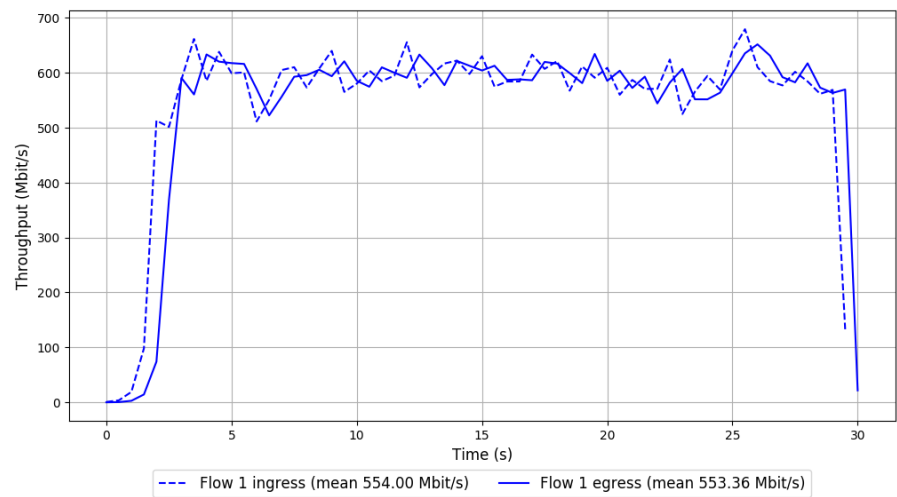


Run 3: Statistics of Muses_DecisionTree

Start at: 2019-07-17 17:25:01
End at: 2019-07-17 17:25:31
Local clock offset: 9.285 ms
Remote clock offset: 10.018 ms

Below is generated by plot.py at 2019-07-17 20:21:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 553.36 Mbit/s
95th percentile per-packet one-way delay: 113.699 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 553.36 Mbit/s
95th percentile per-packet one-way delay: 113.699 ms
Loss rate: 0.70%

Run 3: Report of Muses_DecisionTree — Data Link



Run 4: Statistics of Muses_DecisionTree

Start at: 2019-07-17 18:00:35

End at: 2019-07-17 18:01:05

Local clock offset: 4.062 ms

Remote clock offset: 3.996 ms

Below is generated by plot.py at 2019-07-17 20:24:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 495.17 Mbit/s

95th percentile per-packet one-way delay: 113.030 ms

Loss rate: 1.14%

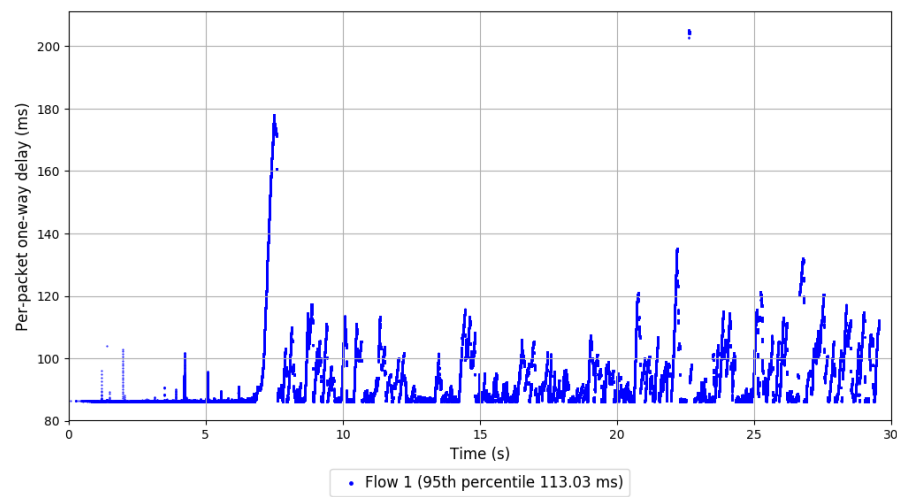
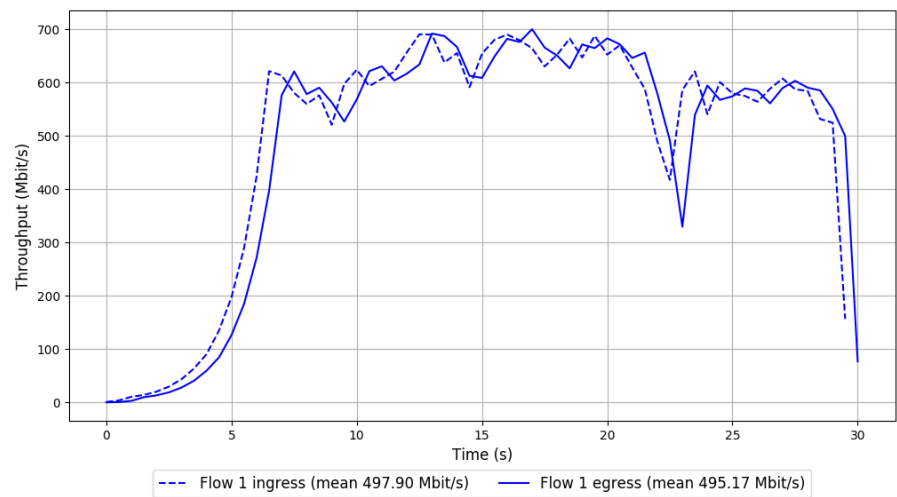
-- Flow 1:

Average throughput: 495.17 Mbit/s

95th percentile per-packet one-way delay: 113.030 ms

Loss rate: 1.14%

Run 4: Report of Muses_DecisionTree — Data Link



Run 5: Statistics of Muses_DecisionTree

Start at: 2019-07-17 18:35:56

End at: 2019-07-17 18:36:26

Local clock offset: 1.939 ms

Remote clock offset: 1.976 ms

Below is generated by plot.py at 2019-07-17 20:25:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.80 Mbit/s

95th percentile per-packet one-way delay: 144.879 ms

Loss rate: 2.13%

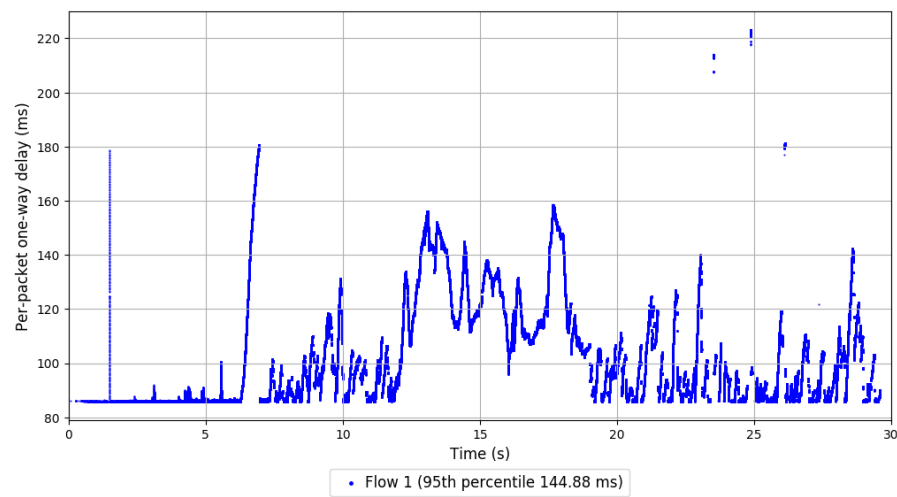
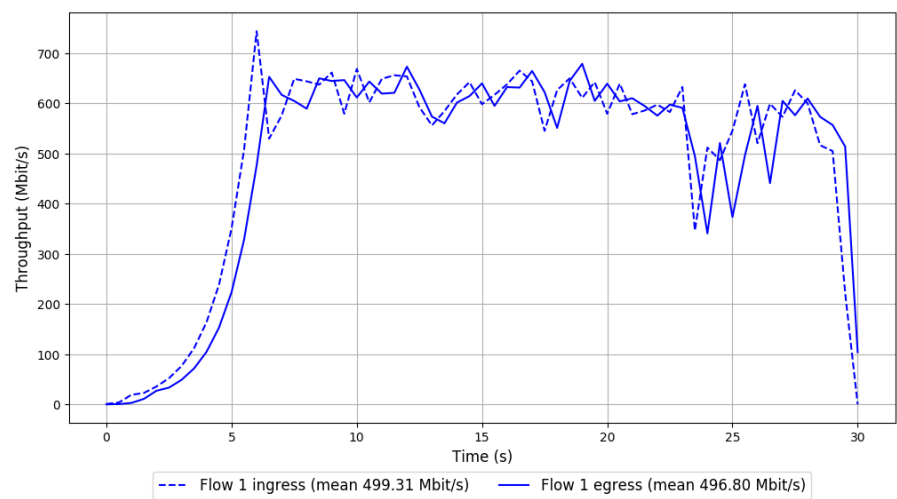
-- Flow 1:

Average throughput: 496.80 Mbit/s

95th percentile per-packet one-way delay: 144.879 ms

Loss rate: 2.13%

Run 5: Report of Muses_DecisionTree — Data Link

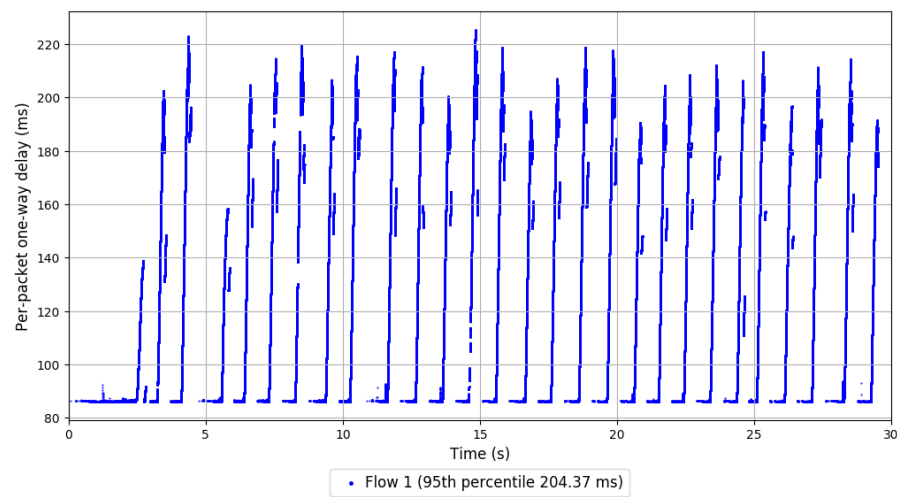
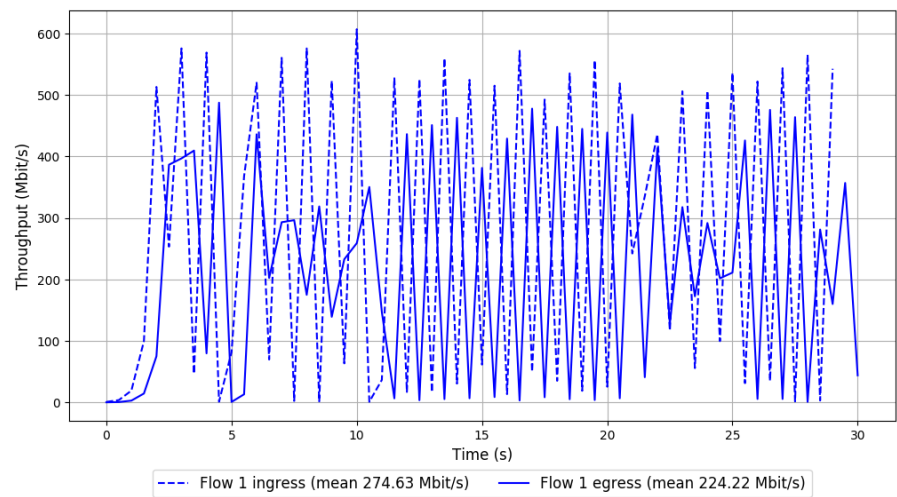



```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-17 16:13:03
End at: 2019-07-17 16:13:33
Local clock offset: 16.202 ms
Remote clock offset: 16.287 ms

# Below is generated by plot.py at 2019-07-17 20:25:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.22 Mbit/s
95th percentile per-packet one-way delay: 204.371 ms
Loss rate: 18.29%
-- Flow 1:
Average throughput: 224.22 Mbit/s
95th percentile per-packet one-way delay: 204.371 ms
Loss rate: 18.29%
```

Run 1: Report of Muses_DecisionTreeH0 — Data Link

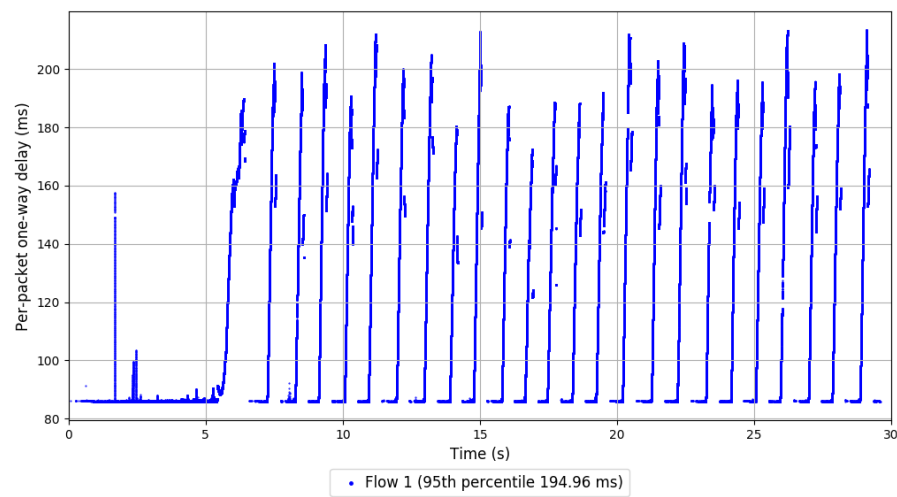
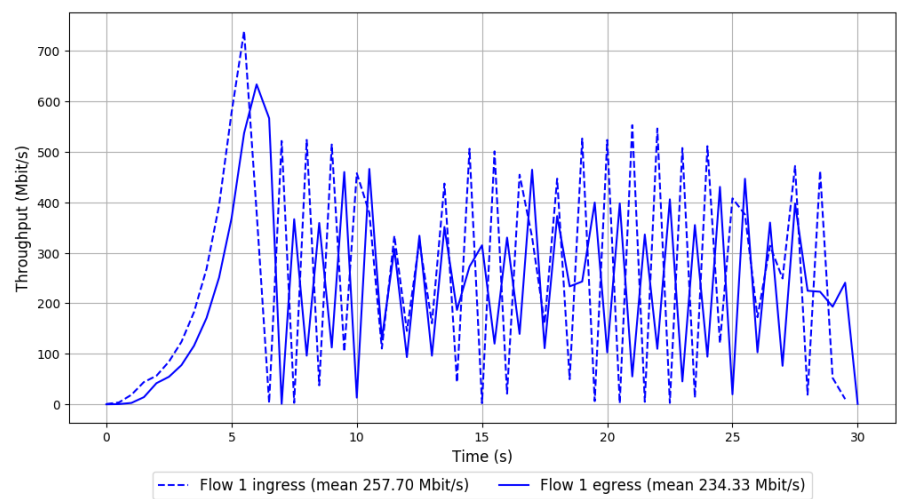


Run 2: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-17 16:48:26
End at: 2019-07-17 16:48:56
Local clock offset: 27.209 ms
Remote clock offset: 28.273 ms

Below is generated by plot.py at 2019-07-17 20:25:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.33 Mbit/s
95th percentile per-packet one-way delay: 194.960 ms
Loss rate: 9.60%
-- Flow 1:
Average throughput: 234.33 Mbit/s
95th percentile per-packet one-way delay: 194.960 ms
Loss rate: 9.60%

Run 2: Report of Muses_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-17 17:23:40

End at: 2019-07-17 17:24:10

Local clock offset: 9.835 ms

Remote clock offset: 10.15 ms

Below is generated by plot.py at 2019-07-17 20:25:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.07 Mbit/s

95th percentile per-packet one-way delay: 202.672 ms

Loss rate: 13.70%

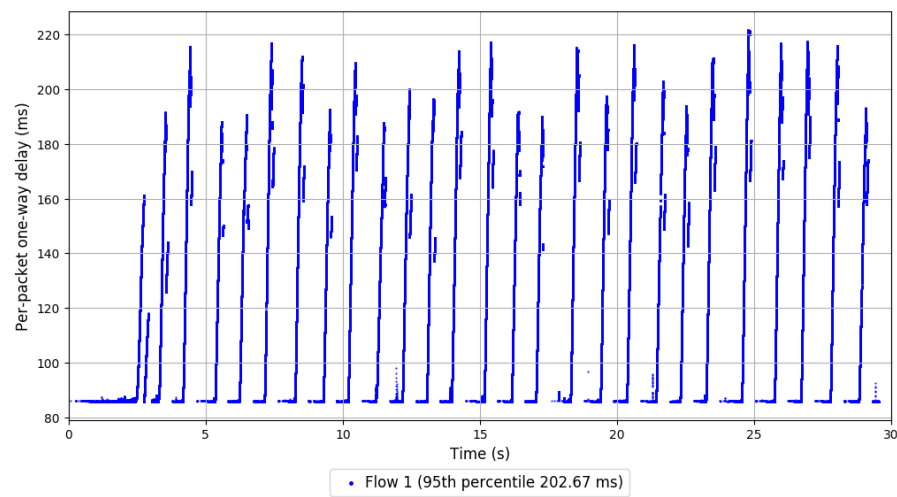
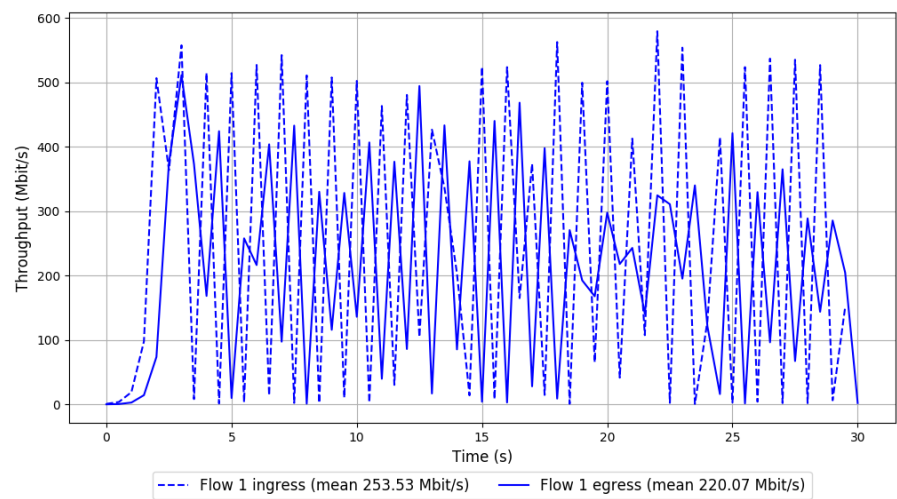
-- Flow 1:

Average throughput: 220.07 Mbit/s

95th percentile per-packet one-way delay: 202.672 ms

Loss rate: 13.70%

Run 3: Report of Muses_DecisionTreeH0 — Data Link

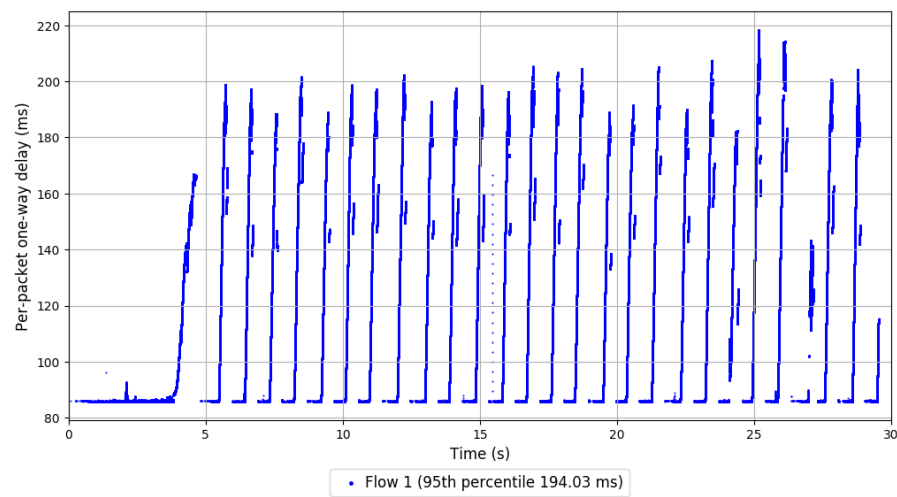
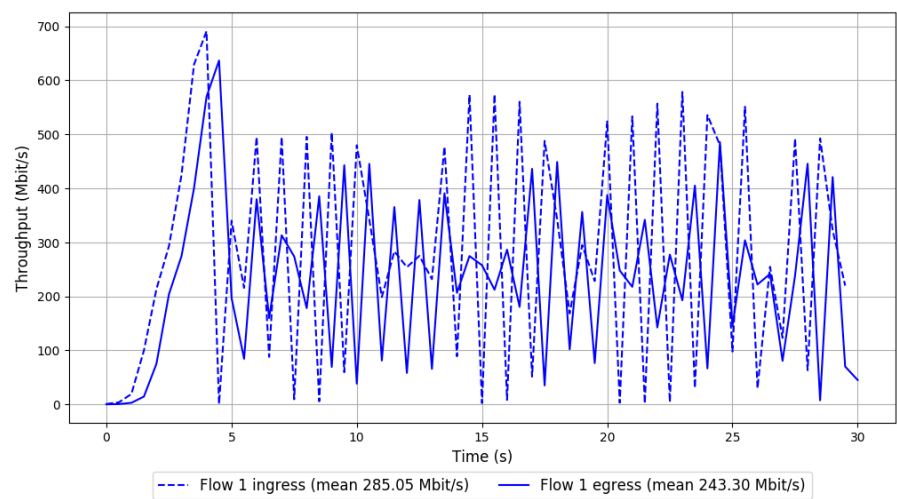


```
Run 4: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-17 17:59:12
End at: 2019-07-17 17:59:42
Local clock offset: 3.664 ms
Remote clock offset: 3.94 ms

# Below is generated by plot.py at 2019-07-17 20:25:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.30 Mbit/s
95th percentile per-packet one-way delay: 194.034 ms
Loss rate: 15.14%
-- Flow 1:
Average throughput: 243.30 Mbit/s
95th percentile per-packet one-way delay: 194.034 ms
Loss rate: 15.14%
```

Run 4: Report of Muses_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses_DecisionTreeH0

Start at: 2019-07-17 18:34:33

End at: 2019-07-17 18:35:03

Local clock offset: 2.314 ms

Remote clock offset: 1.954 ms

Below is generated by plot.py at 2019-07-17 20:25:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.85 Mbit/s

95th percentile per-packet one-way delay: 195.925 ms

Loss rate: 14.79%

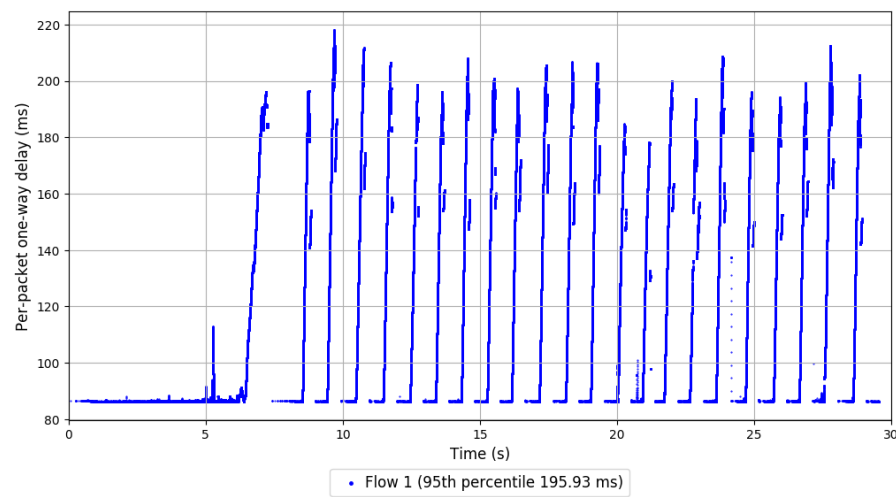
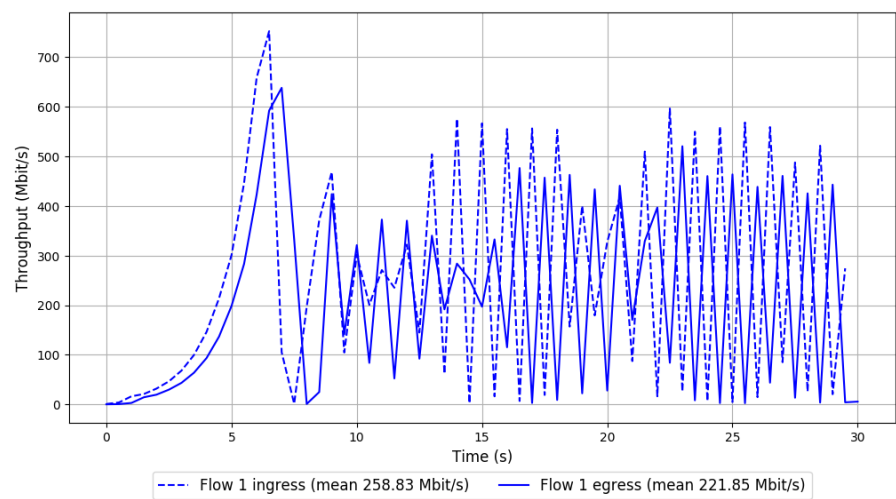
-- Flow 1:

Average throughput: 221.85 Mbit/s

95th percentile per-packet one-way delay: 195.925 ms

Loss rate: 14.79%

Run 5: Report of Muses_DecisionTreeH0 — Data Link

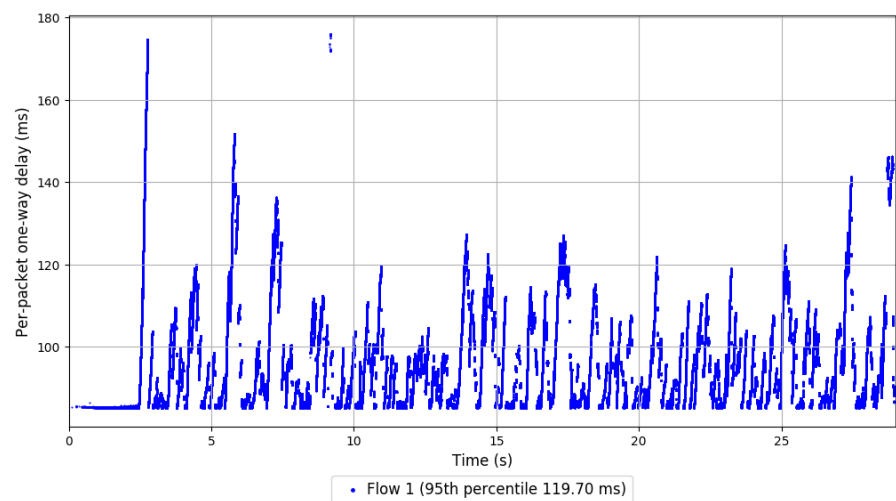
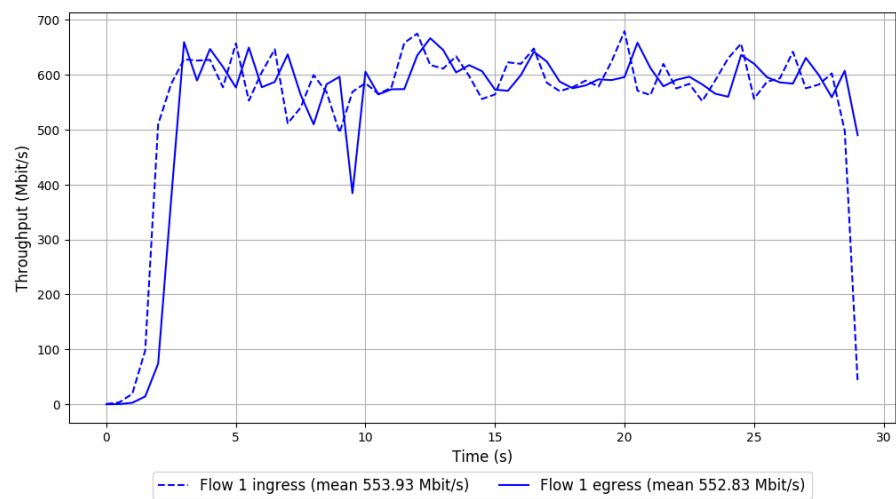


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-17 16:08:18
End at: 2019-07-17 16:08:48
Local clock offset: 12.302 ms
Remote clock offset: 13.421 ms

# Below is generated by plot.py at 2019-07-17 20:32:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 552.83 Mbit/s
95th percentile per-packet one-way delay: 119.697 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 552.83 Mbit/s
95th percentile per-packet one-way delay: 119.697 ms
Loss rate: 0.79%
```

Run 1: Report of Muses_DecisionTreeR0 — Data Link

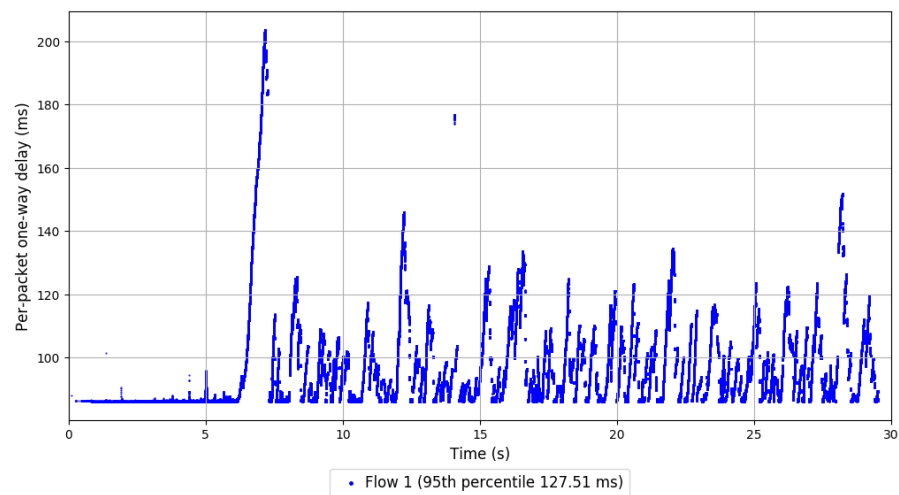
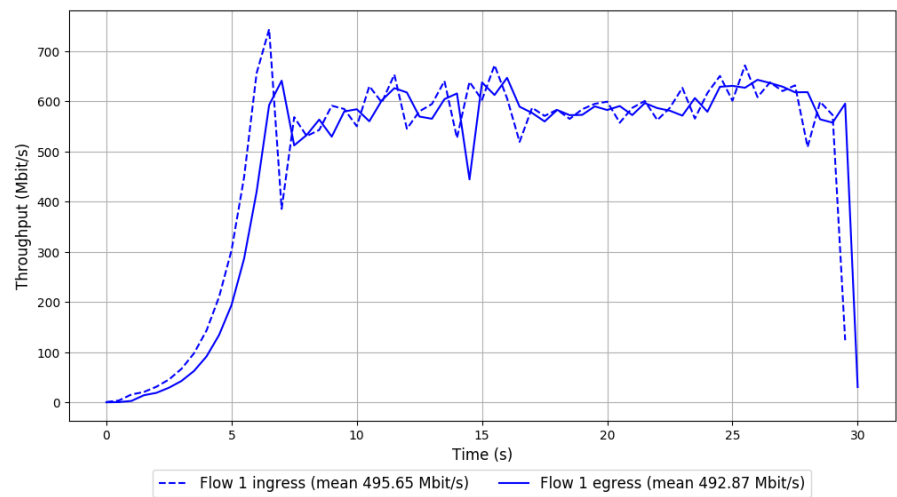


Run 2: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-17 16:43:44
End at: 2019-07-17 16:44:14
Local clock offset: 23.497 ms
Remote clock offset: 24.238 ms

Below is generated by plot.py at 2019-07-17 20:33:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 492.87 Mbit/s
95th percentile per-packet one-way delay: 127.510 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 492.87 Mbit/s
95th percentile per-packet one-way delay: 127.510 ms
Loss rate: 1.15%

Run 2: Report of Muses_DecisionTreeR0 — Data Link

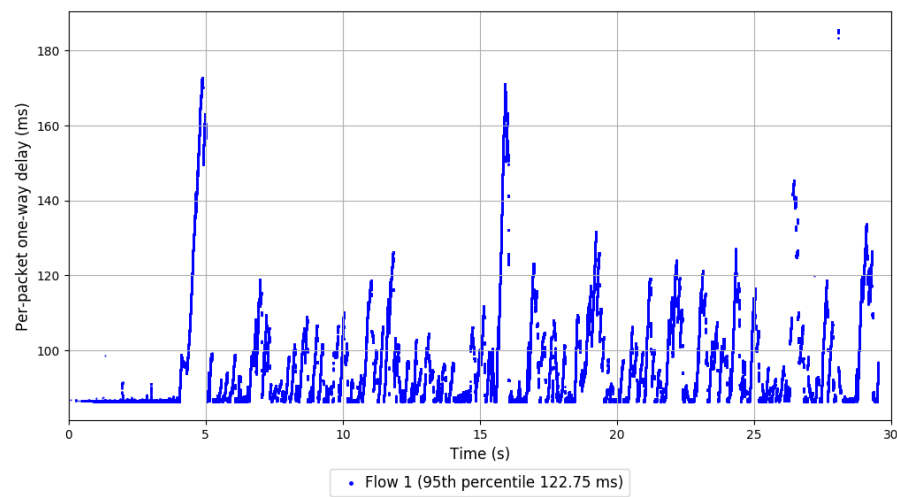
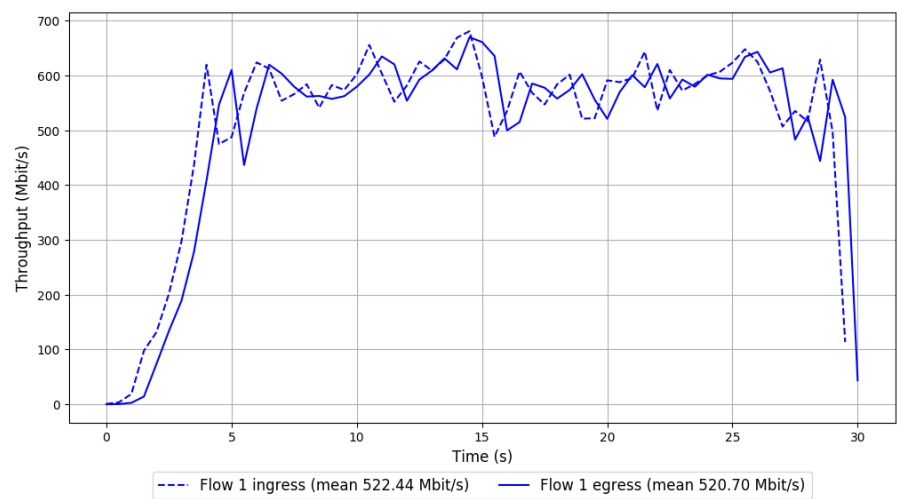


Run 3: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-17 17:18:59
End at: 2019-07-17 17:19:29
Local clock offset: 11.329 ms
Remote clock offset: 11.536 ms

Below is generated by plot.py at 2019-07-17 20:33:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 520.70 Mbit/s
95th percentile per-packet one-way delay: 122.750 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 520.70 Mbit/s
95th percentile per-packet one-way delay: 122.750 ms
Loss rate: 0.92%

Run 3: Report of Muses_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-17 17:54:30

End at: 2019-07-17 17:55:00

Local clock offset: 3.348 ms

Remote clock offset: 3.887 ms

Below is generated by plot.py at 2019-07-17 20:33:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.48 Mbit/s

95th percentile per-packet one-way delay: 118.580 ms

Loss rate: 0.99%

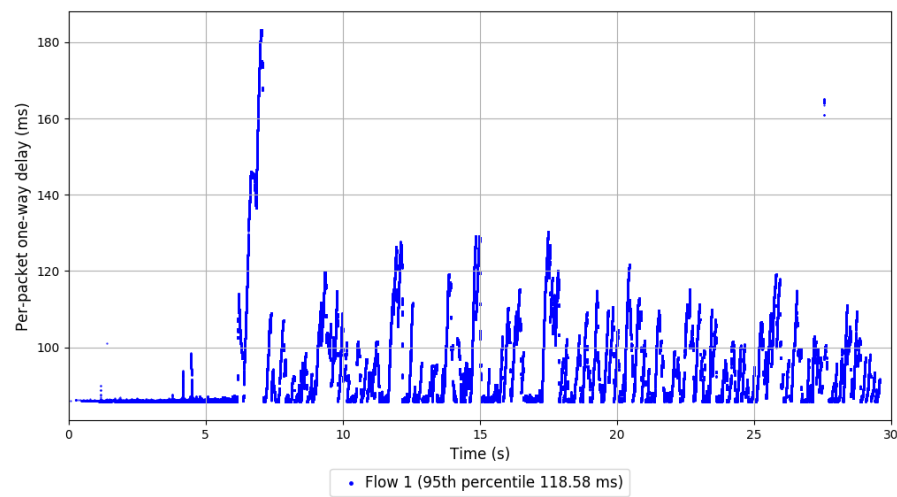
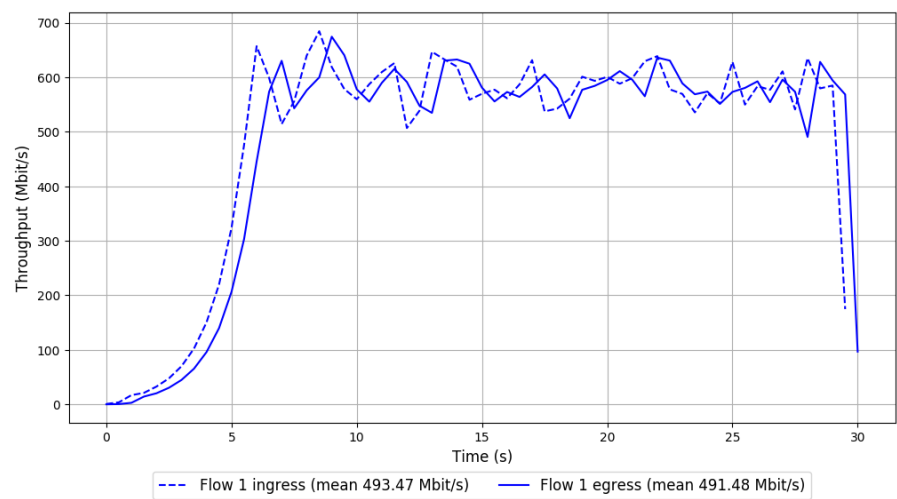
-- Flow 1:

Average throughput: 491.48 Mbit/s

95th percentile per-packet one-way delay: 118.580 ms

Loss rate: 0.99%

Run 4: Report of Muses_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses_DecisionTreeR0

Start at: 2019-07-17 18:29:53

End at: 2019-07-17 18:30:23

Local clock offset: 1.807 ms

Remote clock offset: 1.832 ms

Below is generated by plot.py at 2019-07-17 20:35:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 528.15 Mbit/s

95th percentile per-packet one-way delay: 114.254 ms

Loss rate: 1.84%

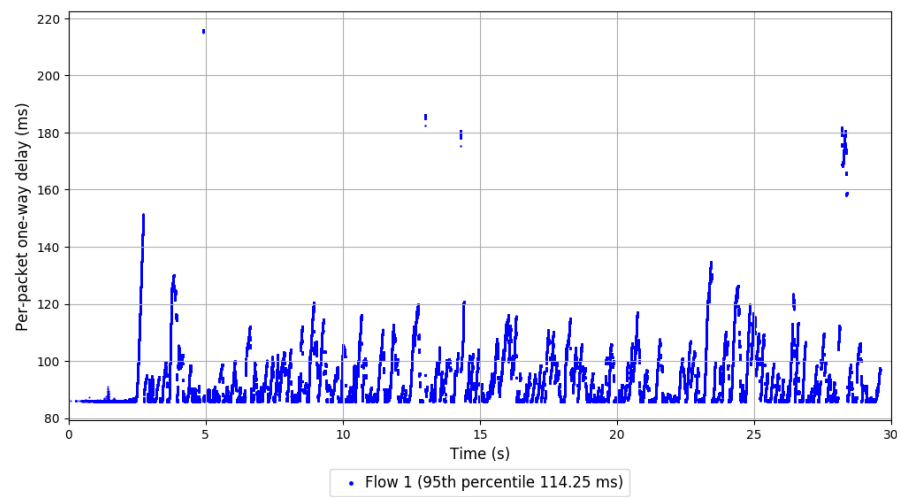
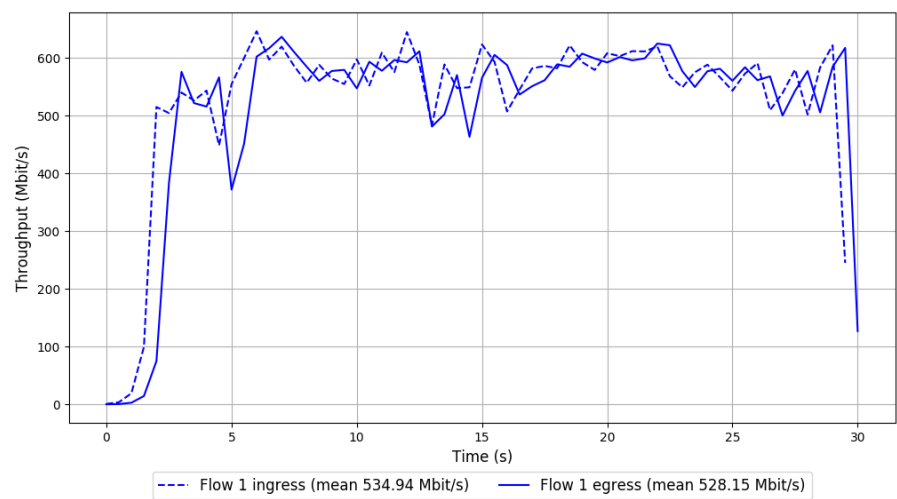
-- Flow 1:

Average throughput: 528.15 Mbit/s

95th percentile per-packet one-way delay: 114.254 ms

Loss rate: 1.84%

Run 5: Report of Muses_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-17 16:06:57

End at: 2019-07-17 16:07:27

Local clock offset: 10.873 ms

Remote clock offset: 11.482 ms

Below is generated by plot.py at 2019-07-17 20:35:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.70 Mbit/s

95th percentile per-packet one-way delay: 108.997 ms

Loss rate: 1.39%

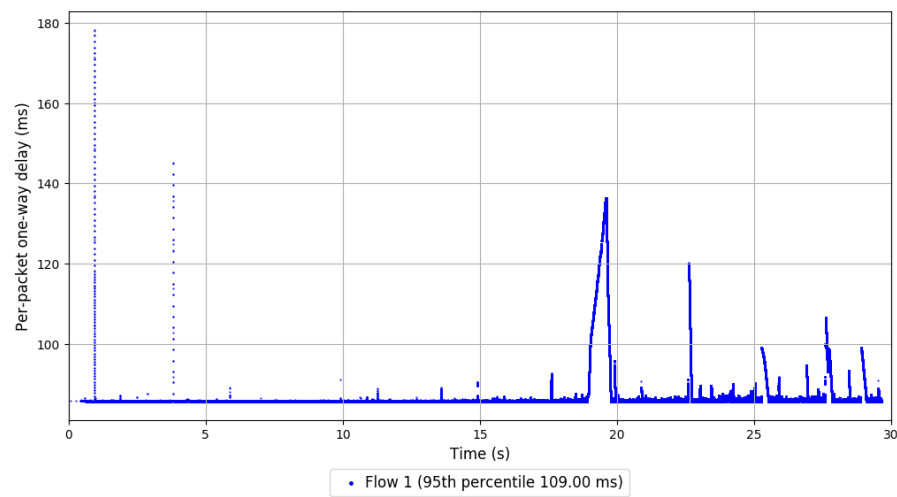
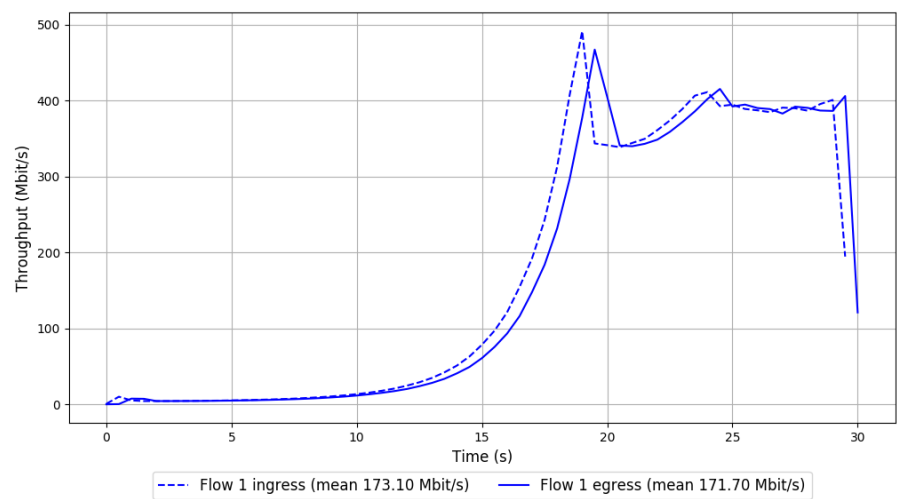
-- Flow 1:

Average throughput: 171.70 Mbit/s

95th percentile per-packet one-way delay: 108.997 ms

Loss rate: 1.39%

Run 1: Report of PCC-Allegro — Data Link

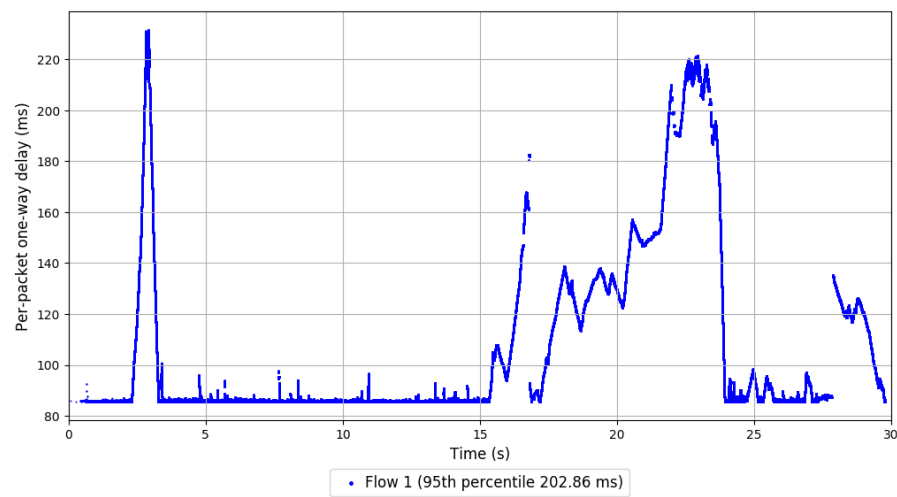
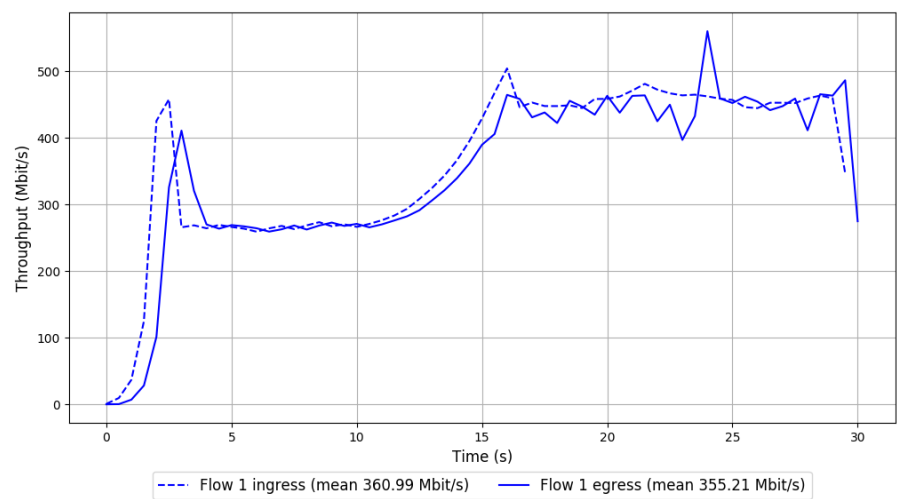


Run 2: Statistics of PCC-Allegro

Start at: 2019-07-17 16:42:11
End at: 2019-07-17 16:42:41
Local clock offset: 22.523 ms
Remote clock offset: 23.441 ms

Below is generated by plot.py at 2019-07-17 20:37:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 355.21 Mbit/s
95th percentile per-packet one-way delay: 202.864 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 355.21 Mbit/s
95th percentile per-packet one-way delay: 202.864 ms
Loss rate: 2.17%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-07-17 17:17:32

End at: 2019-07-17 17:18:02

Local clock offset: 11.967 ms

Remote clock offset: 12.237 ms

Below is generated by plot.py at 2019-07-17 20:37:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.21 Mbit/s

95th percentile per-packet one-way delay: 98.856 ms

Loss rate: 1.23%

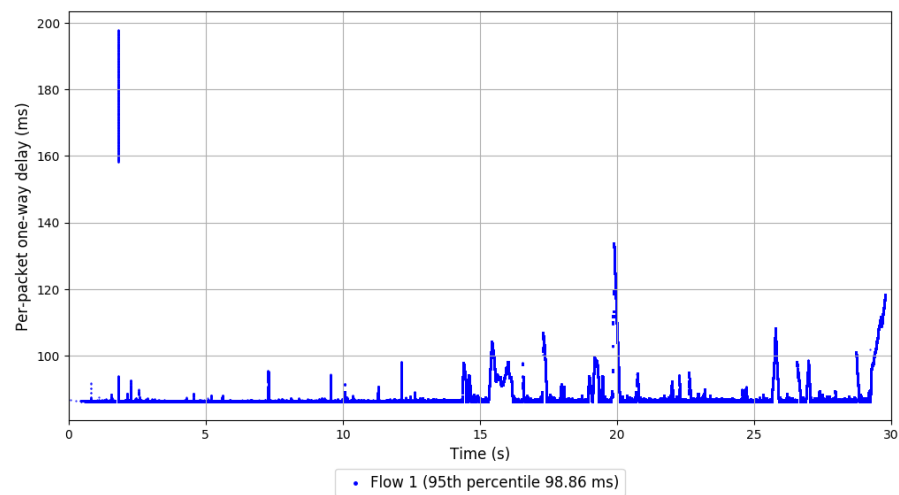
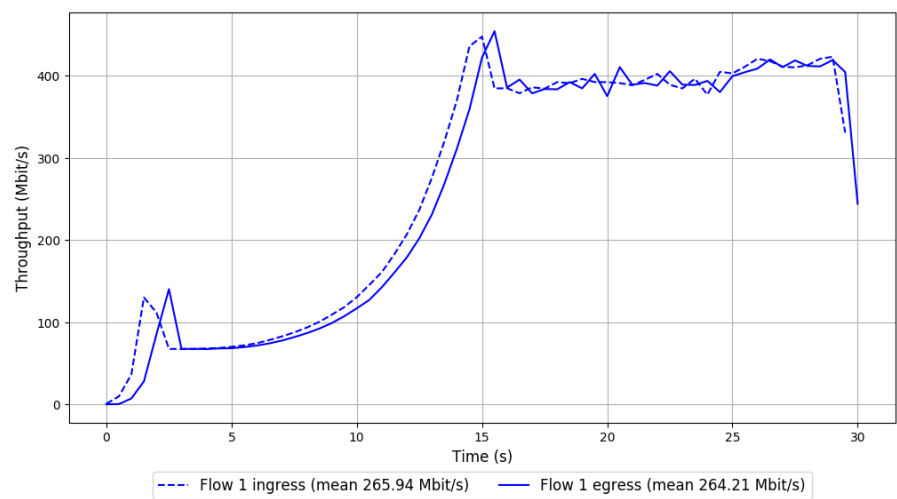
-- Flow 1:

Average throughput: 264.21 Mbit/s

95th percentile per-packet one-way delay: 98.856 ms

Loss rate: 1.23%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-07-17 17:52:55

End at: 2019-07-17 17:53:25

Local clock offset: 3.989 ms

Remote clock offset: 3.934 ms

Below is generated by plot.py at 2019-07-17 20:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.78 Mbit/s

95th percentile per-packet one-way delay: 166.660 ms

Loss rate: 1.51%

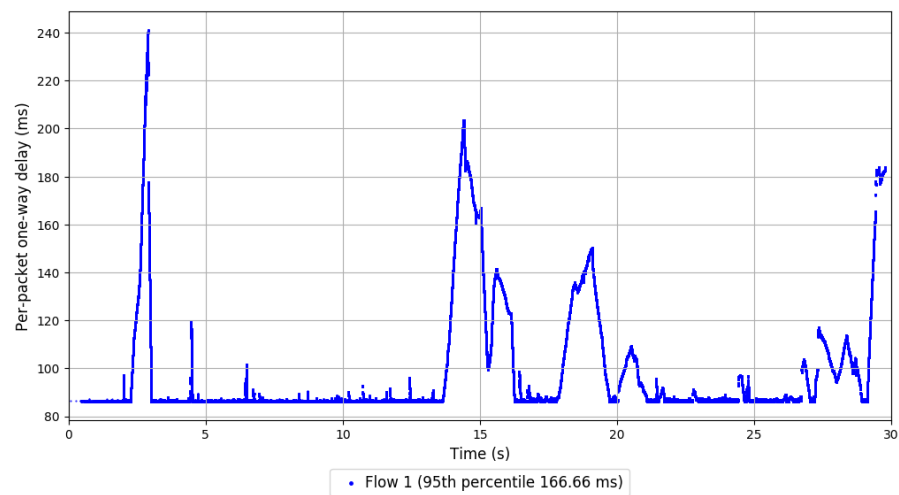
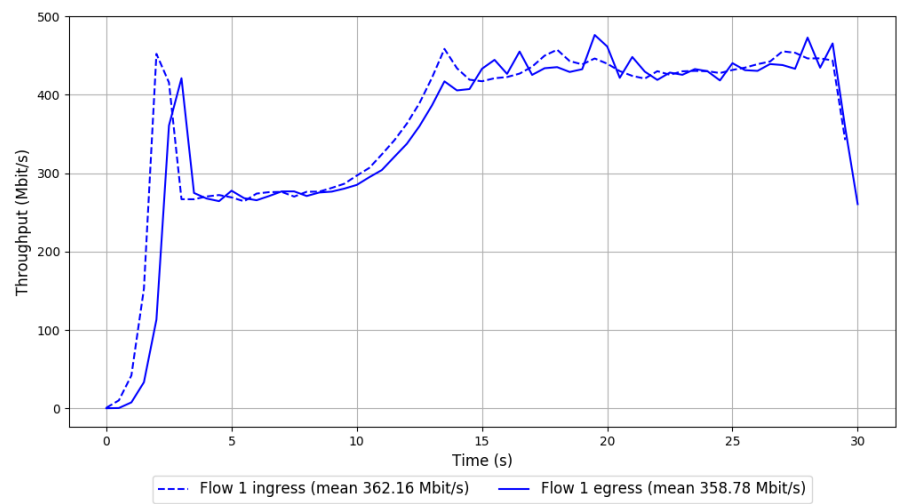
-- Flow 1:

Average throughput: 358.78 Mbit/s

95th percentile per-packet one-way delay: 166.660 ms

Loss rate: 1.51%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-07-17 18:28:22

End at: 2019-07-17 18:28:52

Local clock offset: 1.801 ms

Remote clock offset: 1.845 ms

Below is generated by plot.py at 2019-07-17 20:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.31 Mbit/s

95th percentile per-packet one-way delay: 96.611 ms

Loss rate: 1.67%

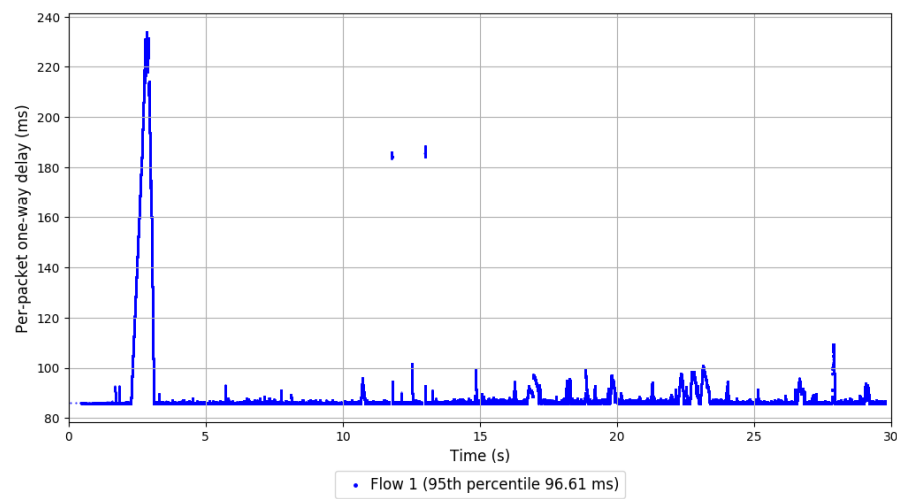
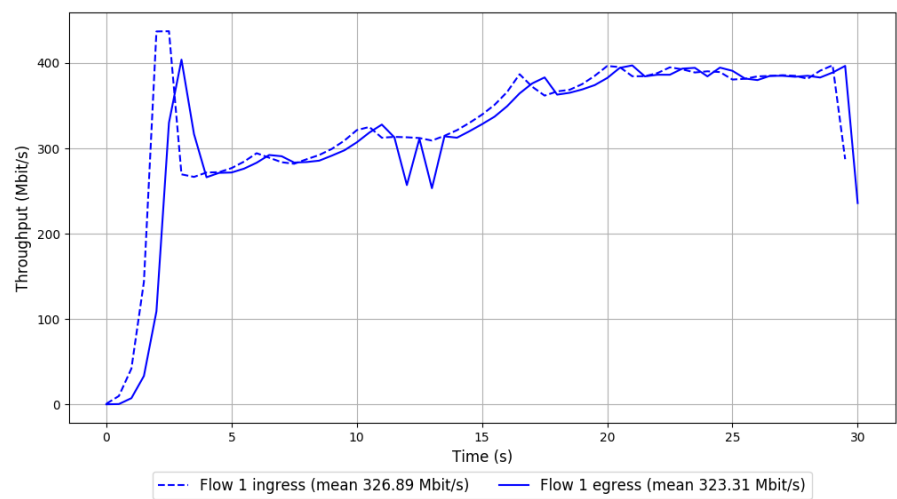
-- Flow 1:

Average throughput: 323.31 Mbit/s

95th percentile per-packet one-way delay: 96.611 ms

Loss rate: 1.67%

Run 5: Report of PCC-Allegro — Data Link

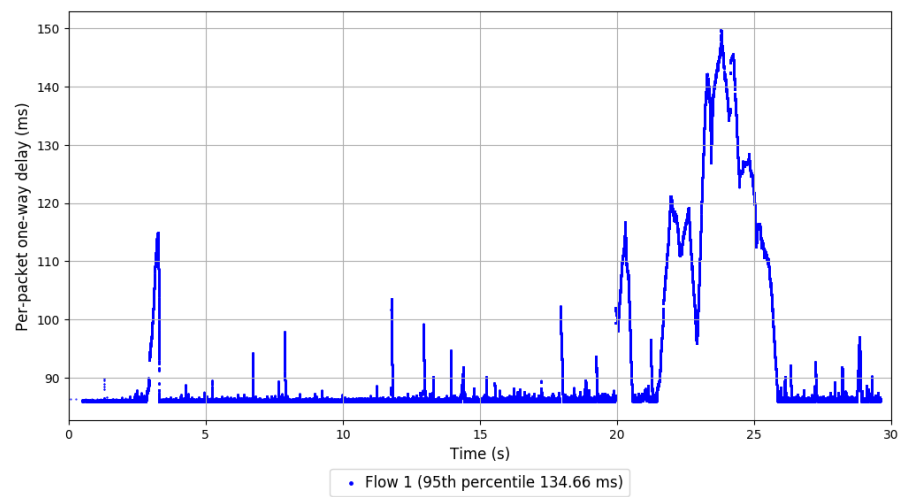
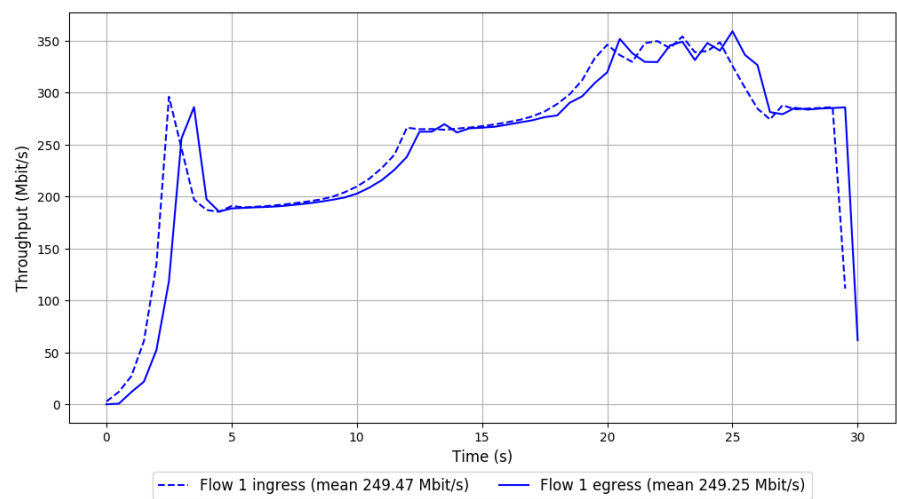


Run 1: Statistics of PCC-Expr

Start at: 2019-07-17 16:23:01
End at: 2019-07-17 16:23:31
Local clock offset: 20.394 ms
Remote clock offset: 21.289 ms

Below is generated by plot.py at 2019-07-17 20:45:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 249.25 Mbit/s
95th percentile per-packet one-way delay: 134.665 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 249.25 Mbit/s
95th percentile per-packet one-way delay: 134.665 ms
Loss rate: 0.67%

Run 1: Report of PCC-Expr — Data Link

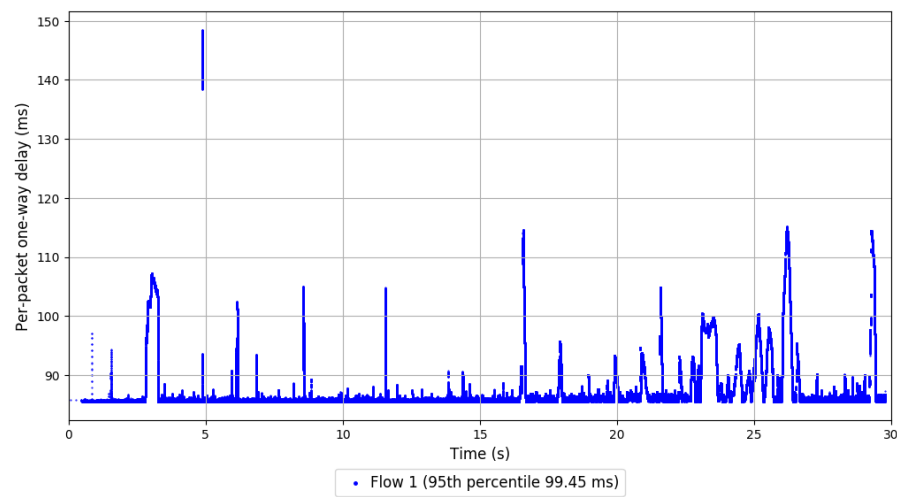
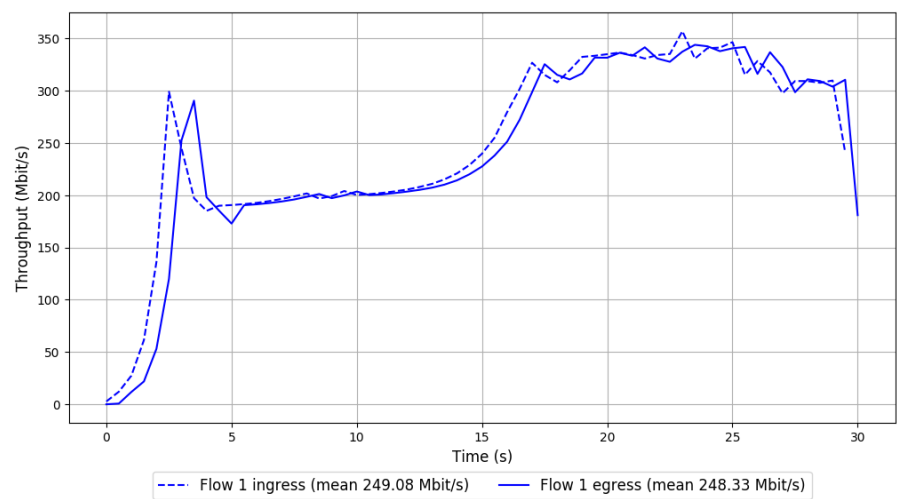


Run 2: Statistics of PCC-Expr

Start at: 2019-07-17 16:58:23
End at: 2019-07-17 16:58:53
Local clock offset: 37.552 ms
Remote clock offset: 38.894 ms

Below is generated by plot.py at 2019-07-17 20:45:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 248.33 Mbit/s
95th percentile per-packet one-way delay: 99.447 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 248.33 Mbit/s
95th percentile per-packet one-way delay: 99.447 ms
Loss rate: 0.88%

Run 2: Report of PCC-Expr — Data Link

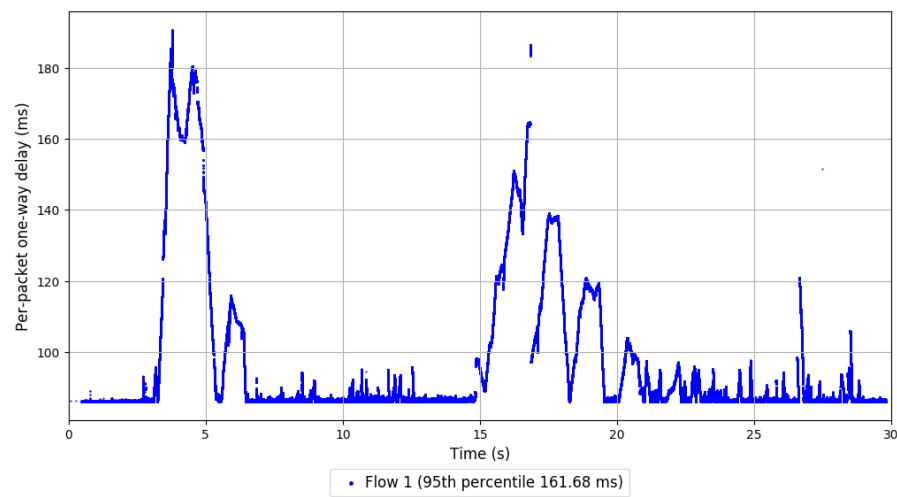
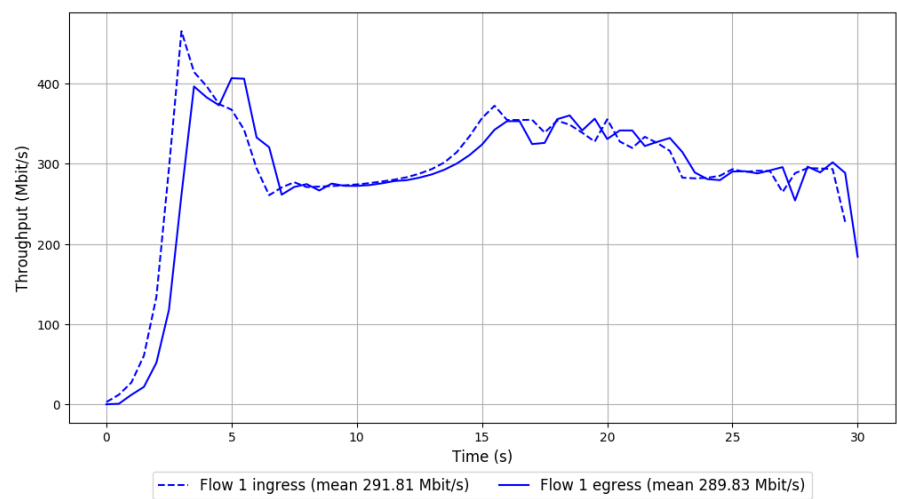


Run 3: Statistics of PCC-Expr

Start at: 2019-07-17 17:33:41
End at: 2019-07-17 17:34:11
Local clock offset: 10.288 ms
Remote clock offset: 10.664 ms

Below is generated by plot.py at 2019-07-17 20:45:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 289.83 Mbit/s
95th percentile per-packet one-way delay: 161.683 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 289.83 Mbit/s
95th percentile per-packet one-way delay: 161.683 ms
Loss rate: 1.26%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-07-17 18:09:11

End at: 2019-07-17 18:09:41

Local clock offset: 4.142 ms

Remote clock offset: 4.757 ms

Below is generated by plot.py at 2019-07-17 20:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.96 Mbit/s

95th percentile per-packet one-way delay: 190.757 ms

Loss rate: 1.94%

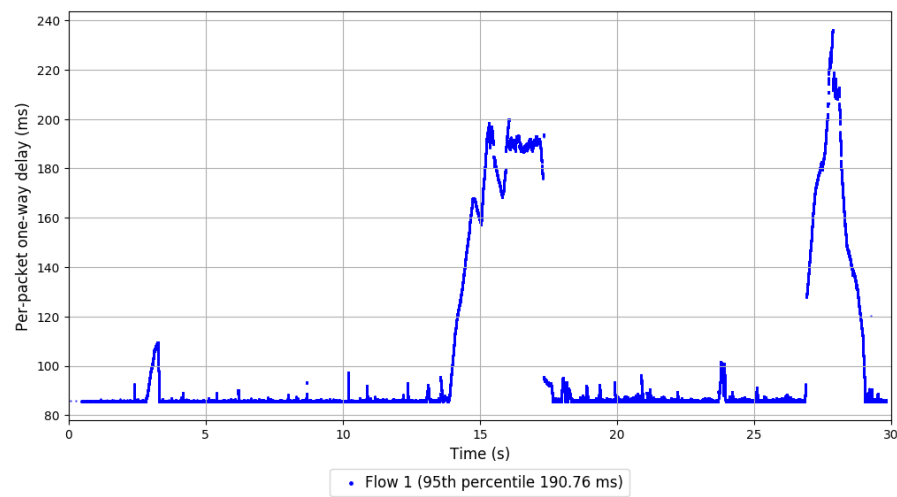
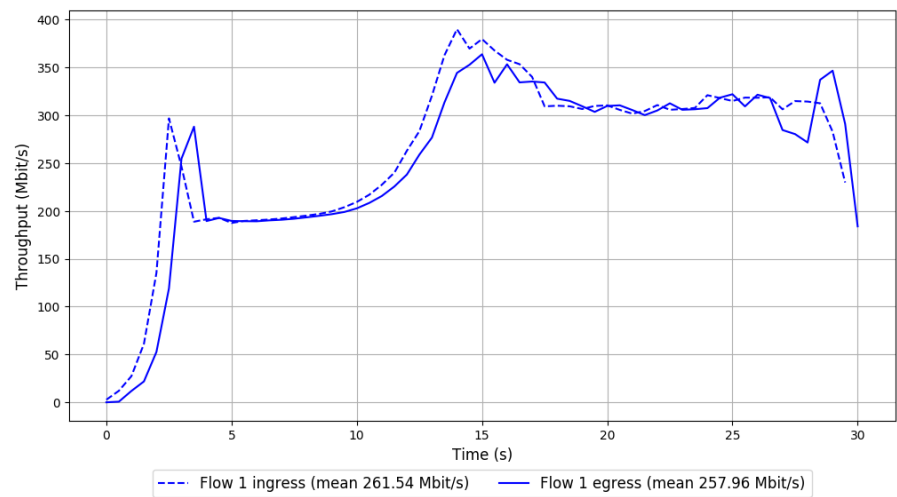
-- Flow 1:

Average throughput: 257.96 Mbit/s

95th percentile per-packet one-way delay: 190.757 ms

Loss rate: 1.94%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-07-17 18:44:38

End at: 2019-07-17 18:45:08

Local clock offset: 2.803 ms

Remote clock offset: 2.444 ms

Below is generated by plot.py at 2019-07-17 20:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.19 Mbit/s

95th percentile per-packet one-way delay: 191.507 ms

Loss rate: 2.62%

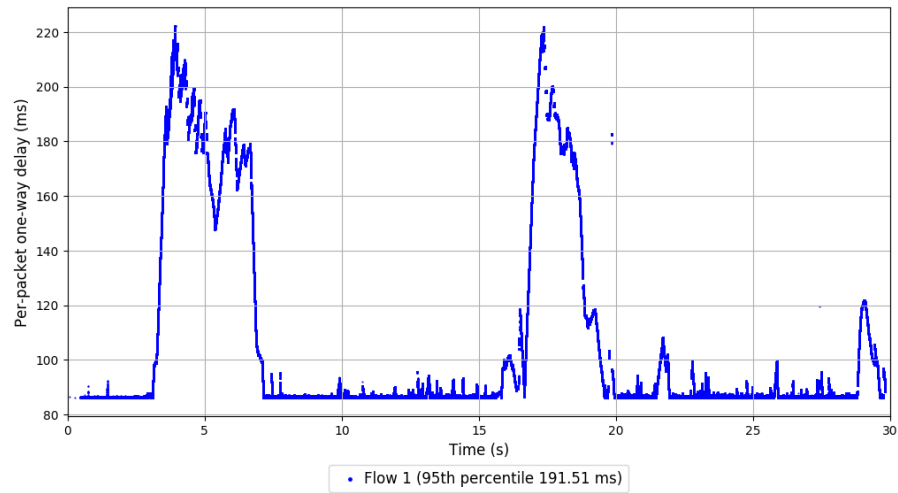
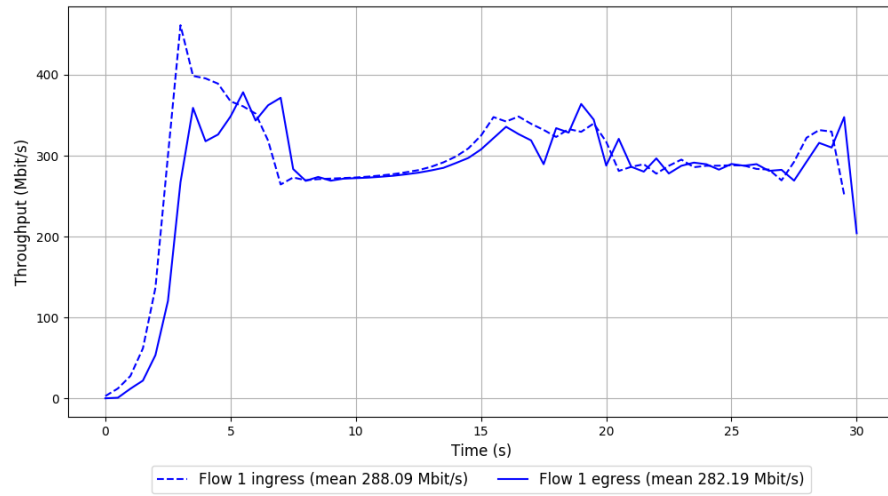
-- Flow 1:

Average throughput: 282.19 Mbit/s

95th percentile per-packet one-way delay: 191.507 ms

Loss rate: 2.62%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

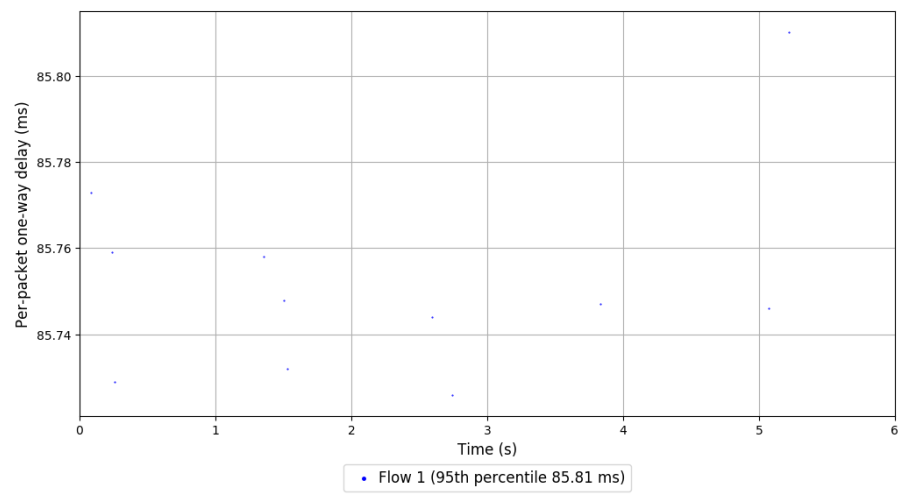
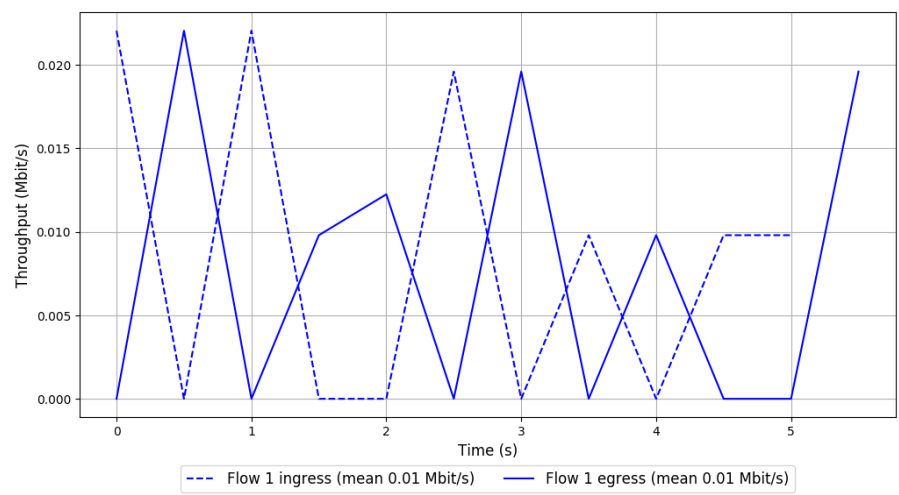
Start at: 2019-07-17 16:17:38

End at: 2019-07-17 16:18:08

Local clock offset: 14.585 ms

Remote clock offset: 15.314 ms

Run 1: Report of QUIC Cubic — Data Link

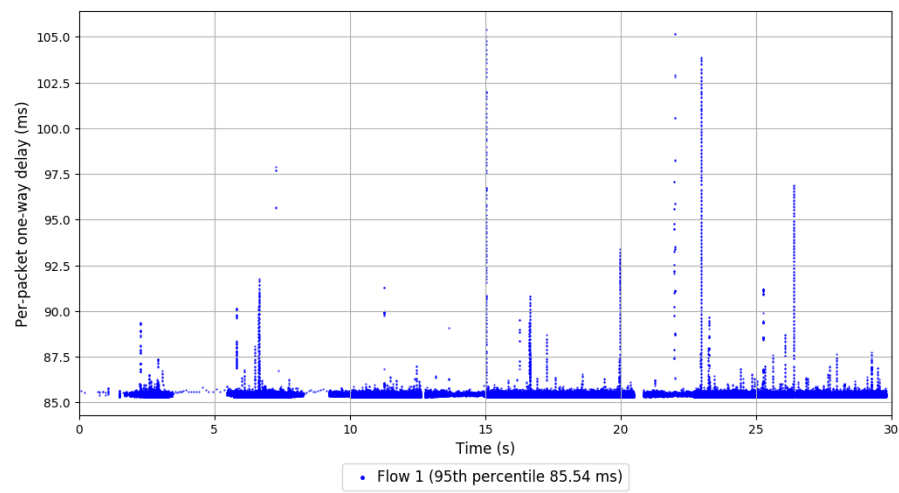
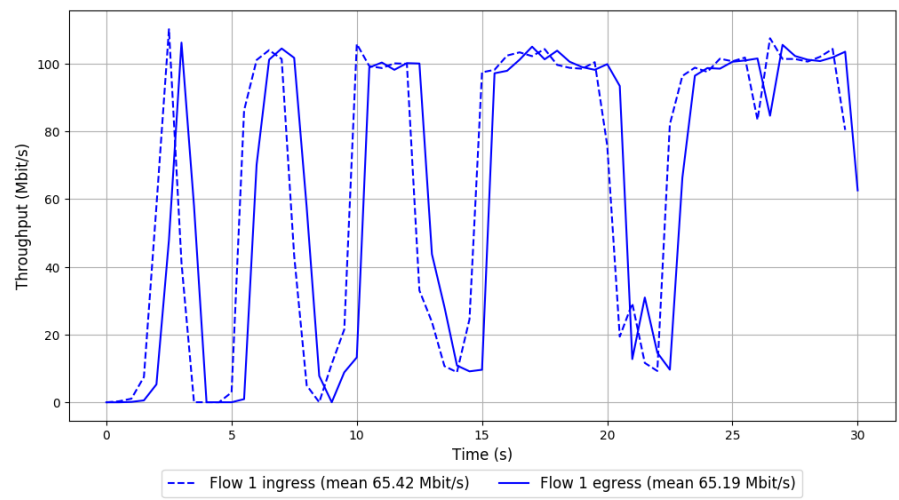


Run 2: Statistics of QUIC Cubic

Start at: 2019-07-17 16:53:01
End at: 2019-07-17 16:53:31
Local clock offset: 31.356 ms
Remote clock offset: 32.761 ms

Below is generated by plot.py at 2019-07-17 20:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.19 Mbit/s
95th percentile per-packet one-way delay: 85.541 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 65.19 Mbit/s
95th percentile per-packet one-way delay: 85.541 ms
Loss rate: 0.92%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-17 17:28:15

End at: 2019-07-17 17:28:45

Local clock offset: 9.872 ms

Remote clock offset: 10.012 ms

Below is generated by plot.py at 2019-07-17 20:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 86.210 ms

Loss rate: 0.90%

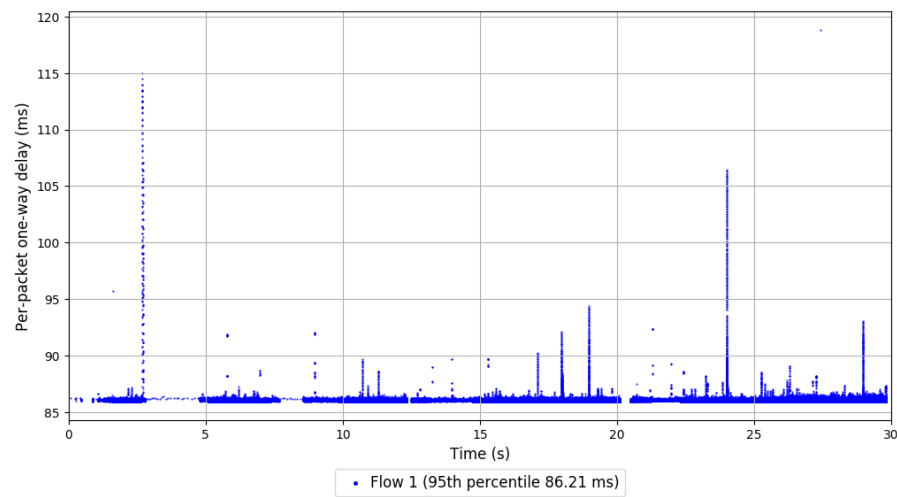
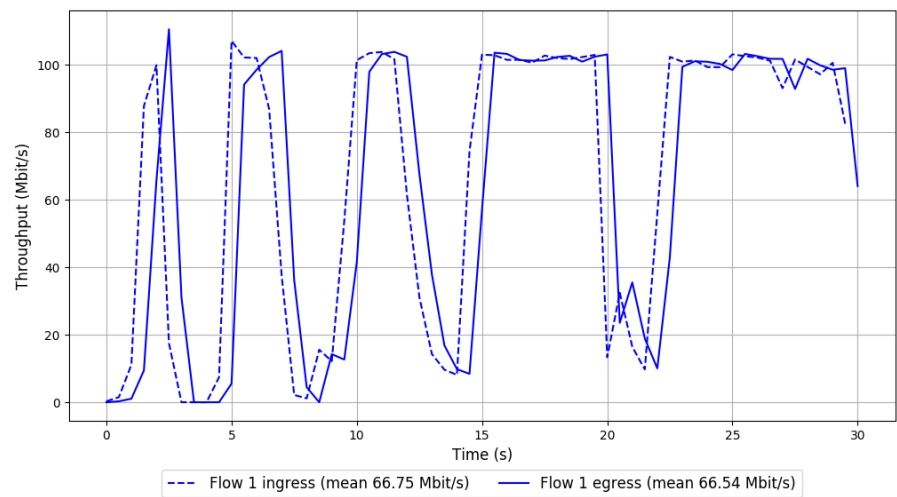
-- Flow 1:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 86.210 ms

Loss rate: 0.90%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-07-17 18:03:46

End at: 2019-07-17 18:04:16

Local clock offset: 3.799 ms

Remote clock offset: 4.246 ms

Below is generated by plot.py at 2019-07-17 20:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 85.776 ms

Loss rate: 0.93%

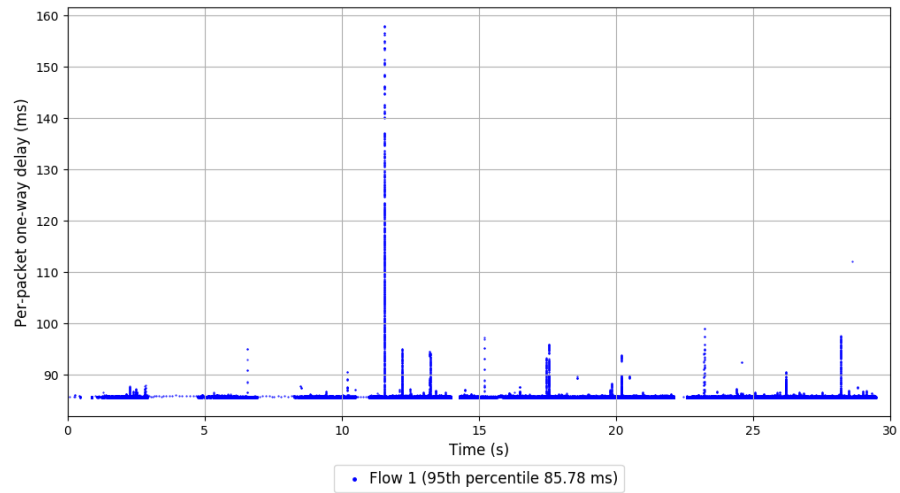
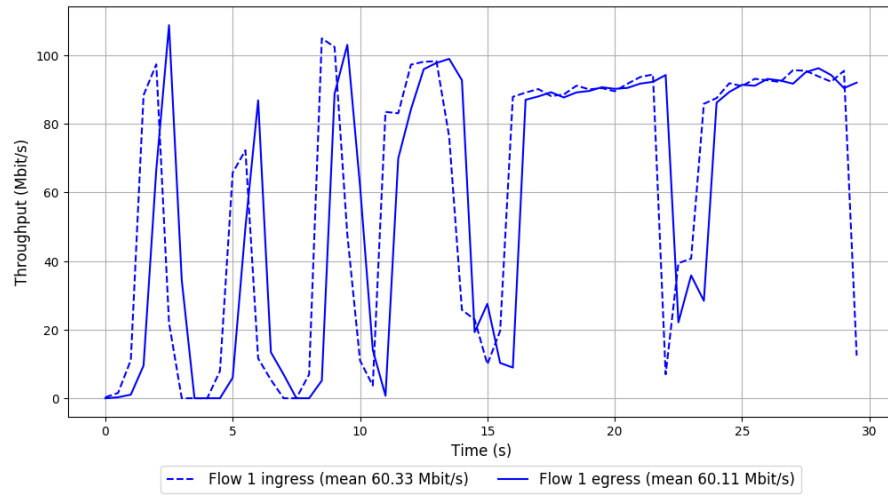
-- Flow 1:

Average throughput: 60.11 Mbit/s

95th percentile per-packet one-way delay: 85.776 ms

Loss rate: 0.93%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-07-17 18:39:14

End at: 2019-07-17 18:39:44

Local clock offset: 2.472 ms

Remote clock offset: 2.111 ms

Below is generated by plot.py at 2019-07-17 20:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.73 Mbit/s

95th percentile per-packet one-way delay: 86.712 ms

Loss rate: 0.88%

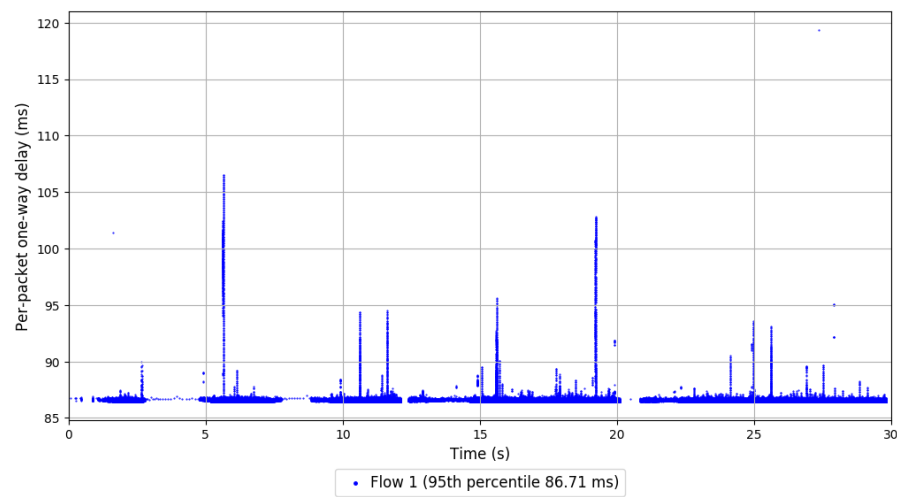
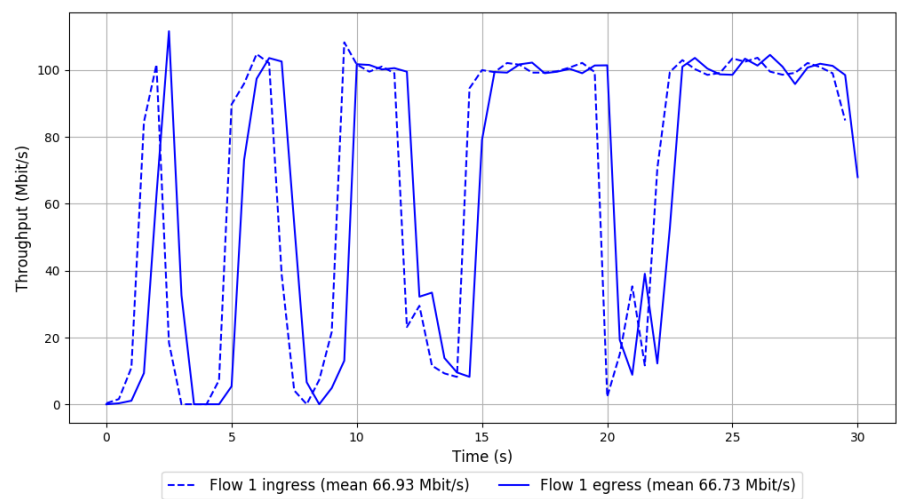
-- Flow 1:

Average throughput: 66.73 Mbit/s

95th percentile per-packet one-way delay: 86.712 ms

Loss rate: 0.88%

Run 5: Report of QUIC Cubic — Data Link

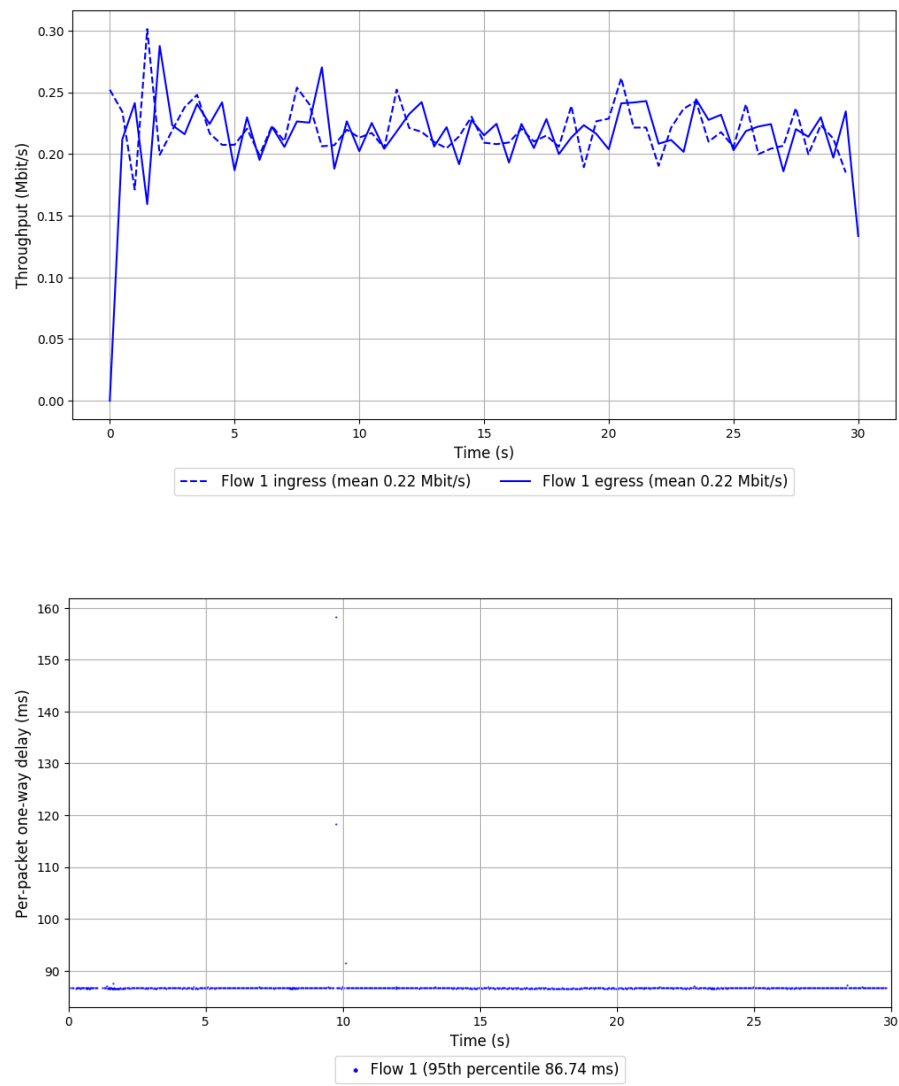


Run 1: Statistics of SCReAM

Start at: 2019-07-17 16:03:18
End at: 2019-07-17 16:03:48
Local clock offset: 11.942 ms
Remote clock offset: 11.683 ms

Below is generated by plot.py at 2019-07-17 20:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.736 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.736 ms
Loss rate: 0.64%

Run 1: Report of SReAM — Data Link

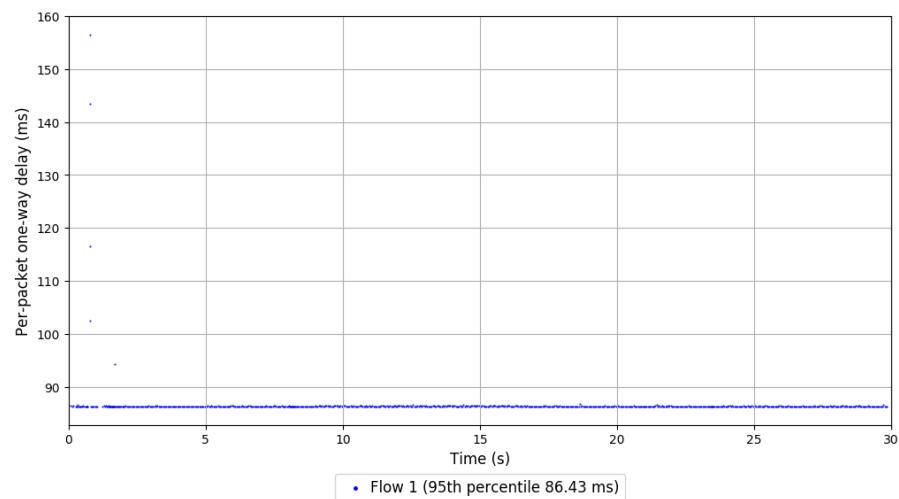
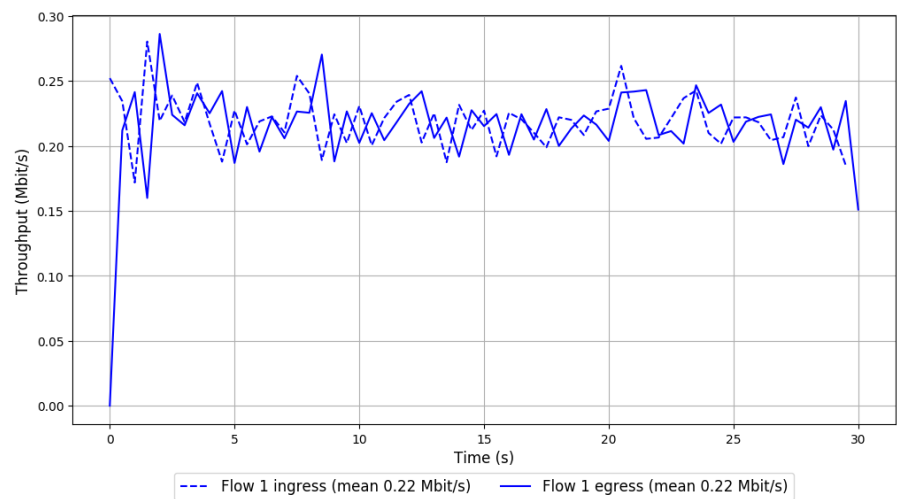


Run 2: Statistics of SCReAM

Start at: 2019-07-17 16:38:27
End at: 2019-07-17 16:38:57
Local clock offset: 21.176 ms
Remote clock offset: 21.833 ms

Below is generated by plot.py at 2019-07-17 20:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.429 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.429 ms
Loss rate: 0.51%

Run 2: Report of SReAM — Data Link

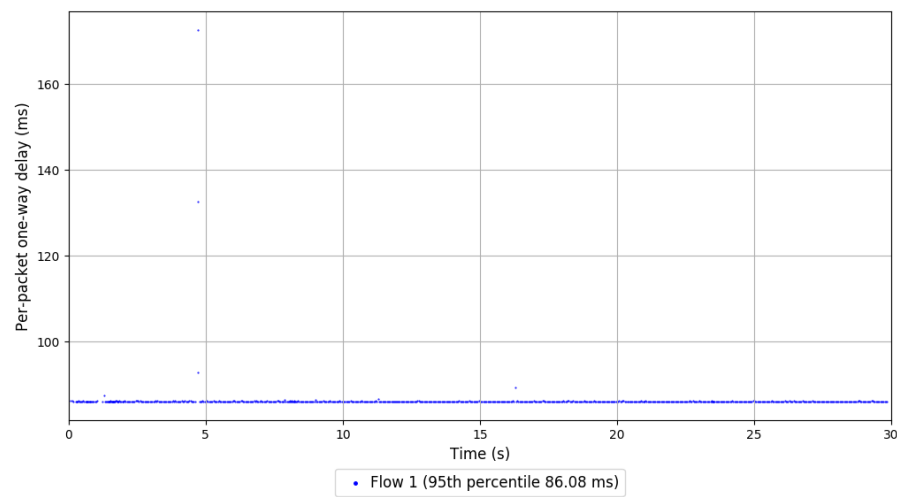
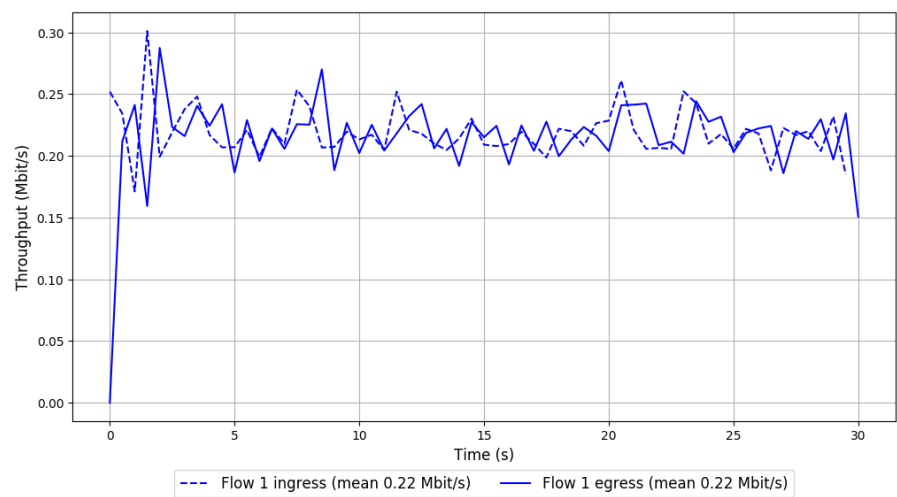


Run 3: Statistics of SCReAM

Start at: 2019-07-17 17:13:53
End at: 2019-07-17 17:14:23
Local clock offset: 14.641 ms
Remote clock offset: 15.079 ms

Below is generated by plot.py at 2019-07-17 20:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.083 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.083 ms
Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-07-17 17:49:14

End at: 2019-07-17 17:49:44

Local clock offset: 3.694 ms

Remote clock offset: 4.314 ms

Below is generated by plot.py at 2019-07-17 20:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.137 ms

Loss rate: 0.51%

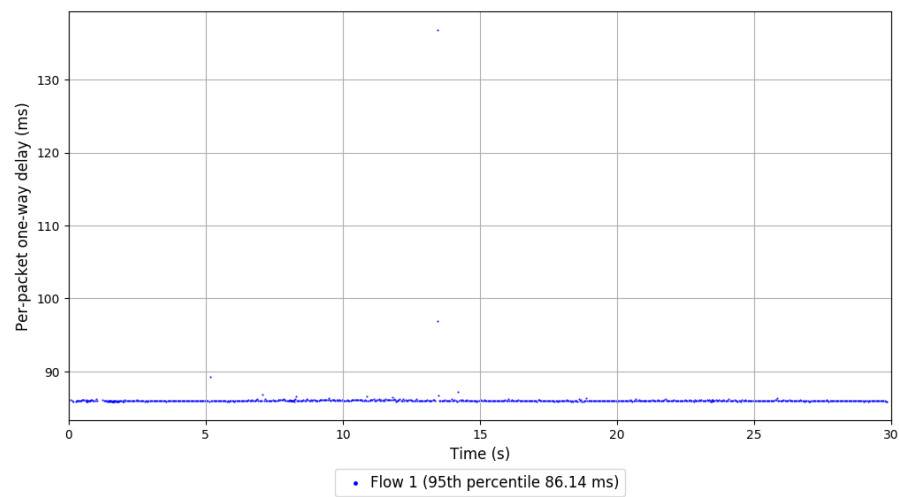
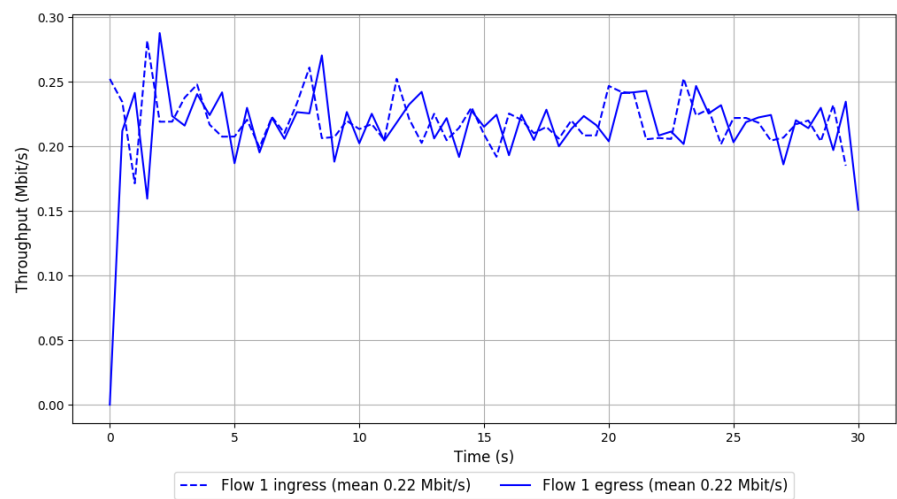
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.137 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-07-17 18:24:44

End at: 2019-07-17 18:25:14

Local clock offset: 2.098 ms

Remote clock offset: 1.952 ms

Below is generated by plot.py at 2019-07-17 20:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.312 ms

Loss rate: 0.51%

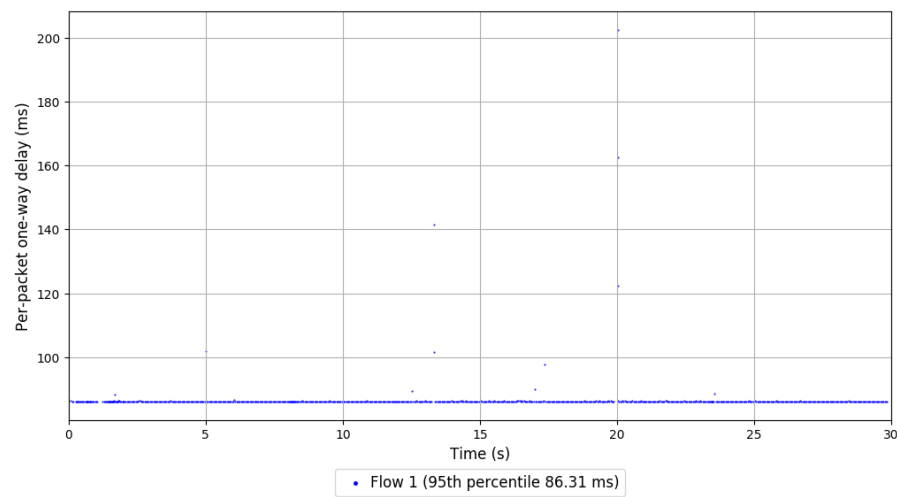
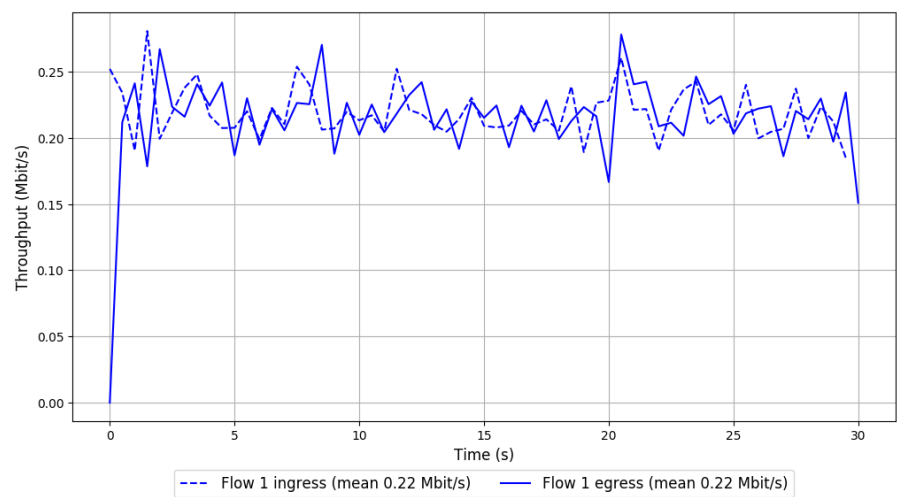
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.312 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link

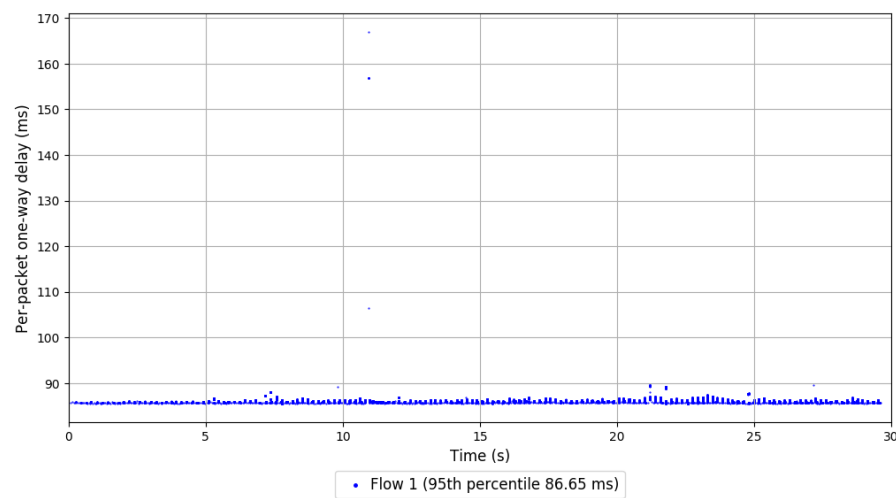
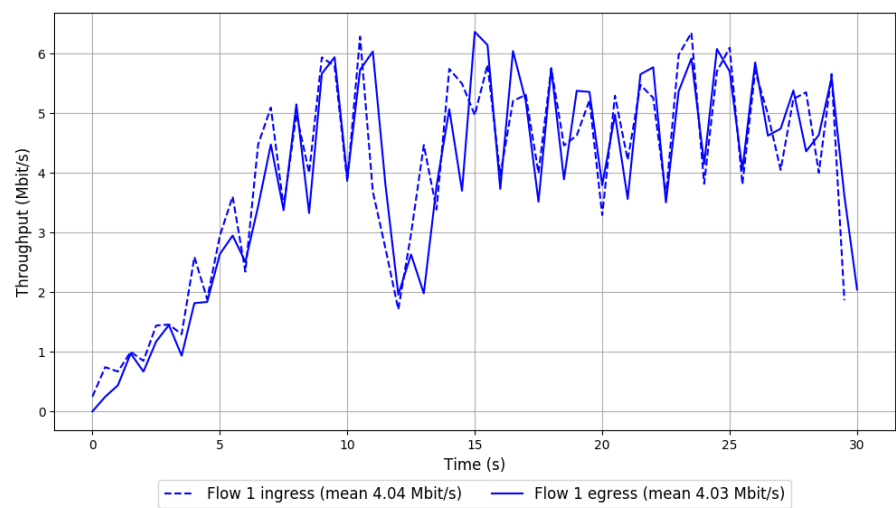


Run 1: Statistics of Sprout

Start at: 2019-07-17 16:05:47
End at: 2019-07-17 16:06:17
Local clock offset: 9.247 ms
Remote clock offset: 10.019 ms

Below is generated by plot.py at 2019-07-17 20:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 86.650 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 86.650 ms
Loss rate: 0.78%

Run 1: Report of Sprout — Data Link

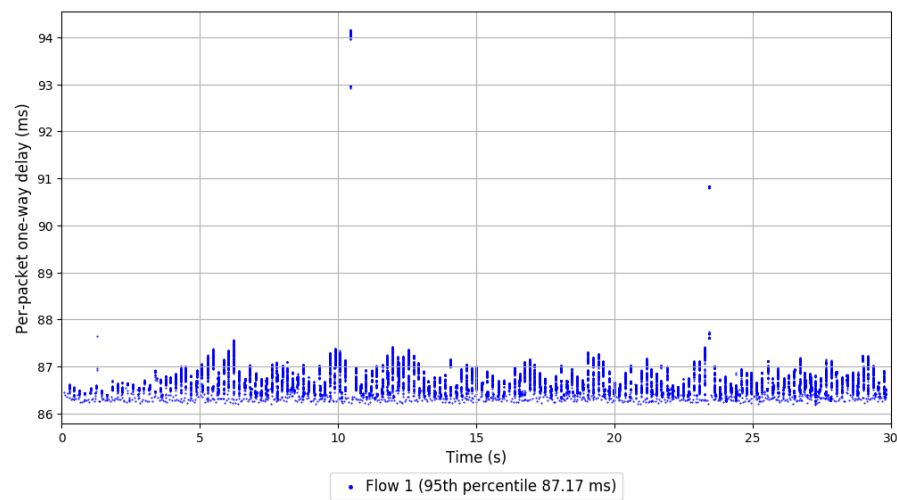
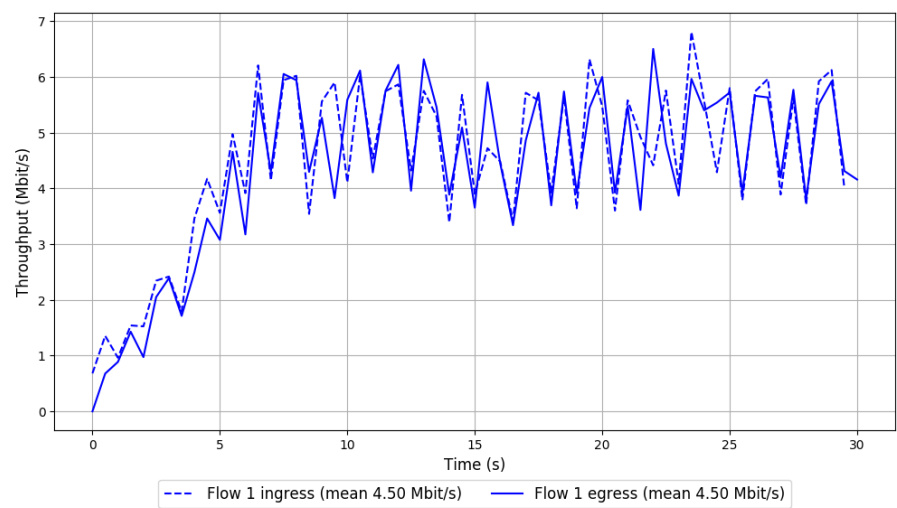


Run 2: Statistics of Sprout

Start at: 2019-07-17 16:41:01
End at: 2019-07-17 16:41:31
Local clock offset: 22.321 ms
Remote clock offset: 22.704 ms

Below is generated by plot.py at 2019-07-17 20:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 87.171 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 4.50 Mbit/s
95th percentile per-packet one-way delay: 87.171 ms
Loss rate: 0.62%

Run 2: Report of Sprout — Data Link

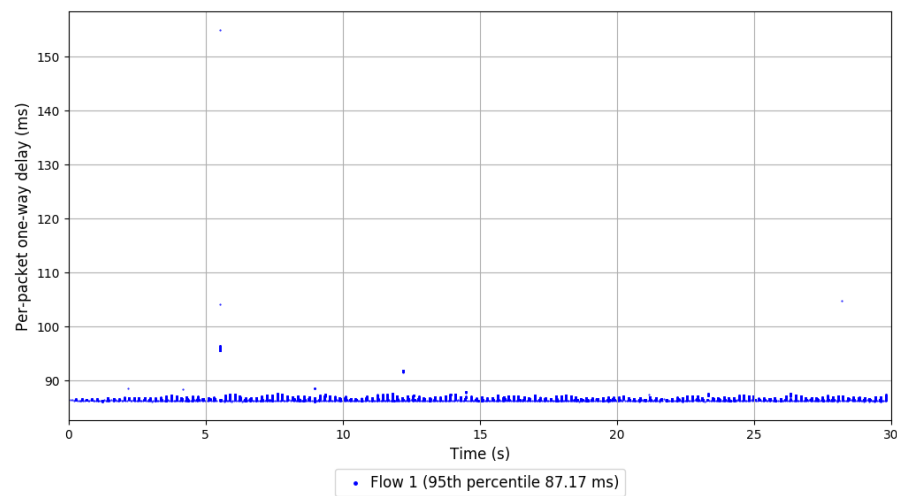
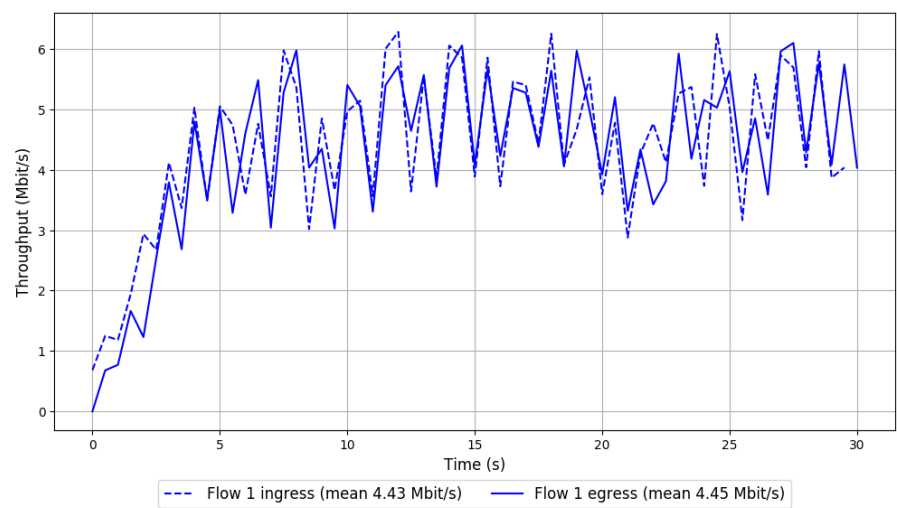


Run 3: Statistics of Sprout

Start at: 2019-07-17 17:16:22
End at: 2019-07-17 17:16:52
Local clock offset: 12.516 ms
Remote clock offset: 12.974 ms

Below is generated by plot.py at 2019-07-17 20:45:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 87.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 87.175 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-07-17 17:51:45

End at: 2019-07-17 17:52:15

Local clock offset: 3.839 ms

Remote clock offset: 4.006 ms

Below is generated by plot.py at 2019-07-17 20:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 86.814 ms

Loss rate: 0.57%

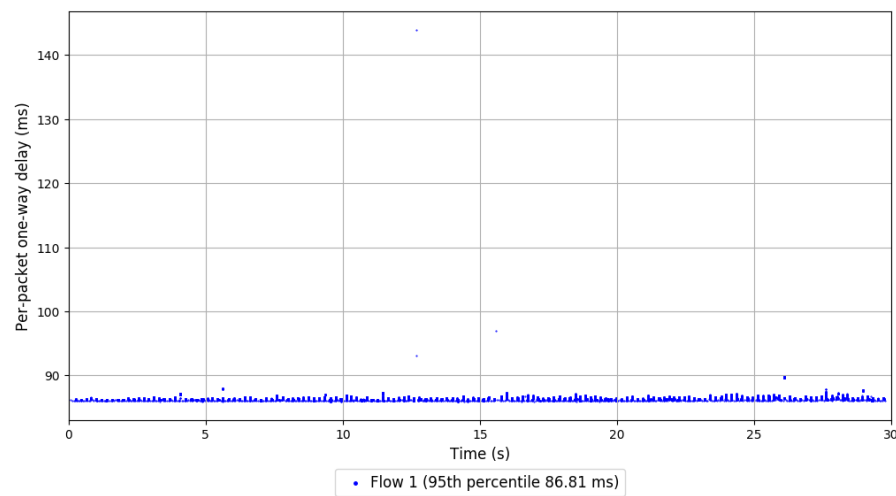
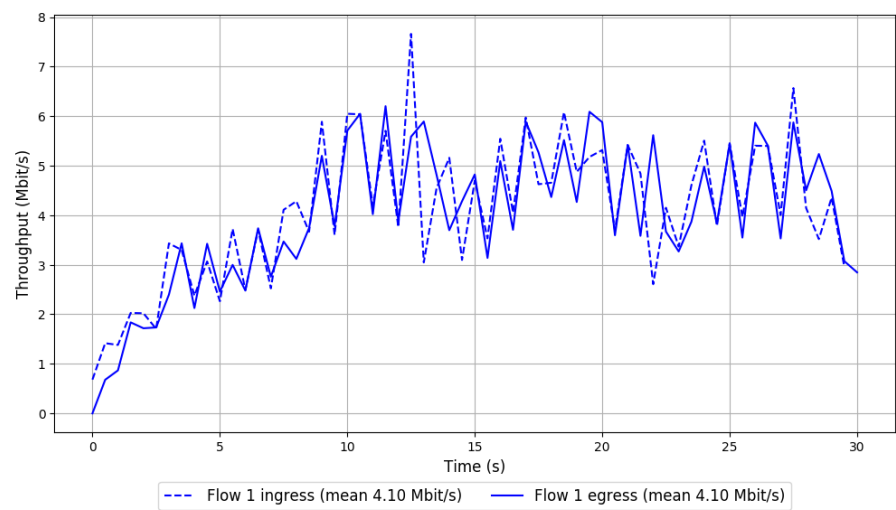
-- Flow 1:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 86.814 ms

Loss rate: 0.57%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2019-07-17 18:27:12

End at: 2019-07-17 18:27:42

Local clock offset: 2.185 ms

Remote clock offset: 1.864 ms

Below is generated by plot.py at 2019-07-17 20:45:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 87.350 ms

Loss rate: 0.89%

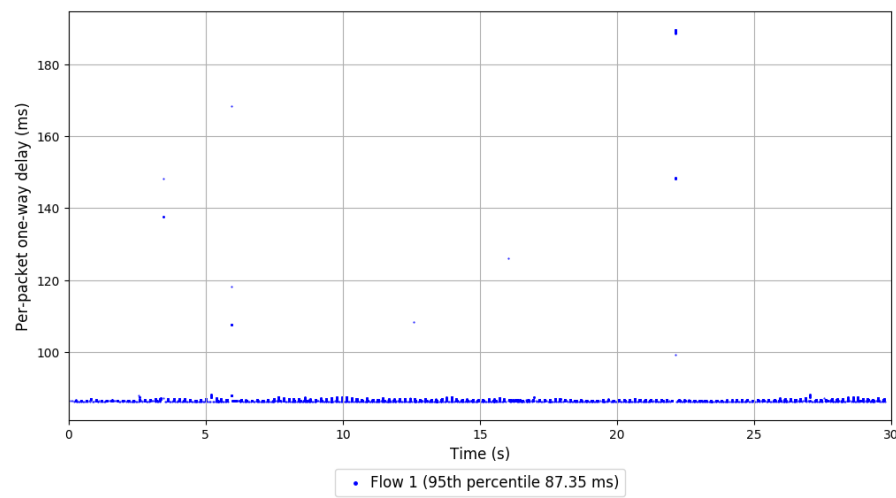
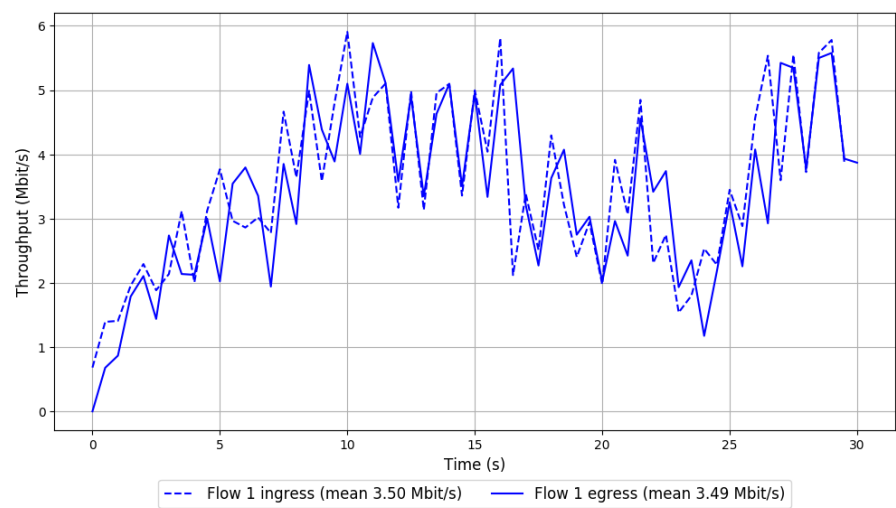
-- Flow 1:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 87.350 ms

Loss rate: 0.89%

Run 5: Report of Sprout — Data Link

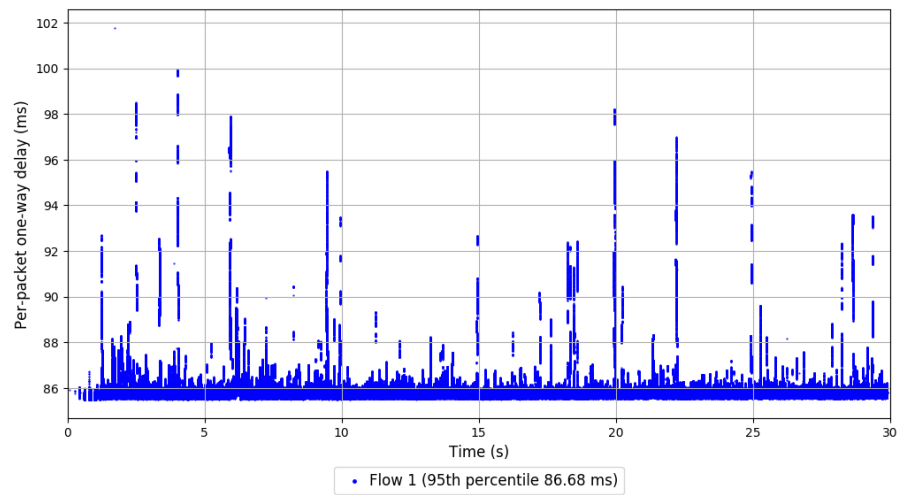
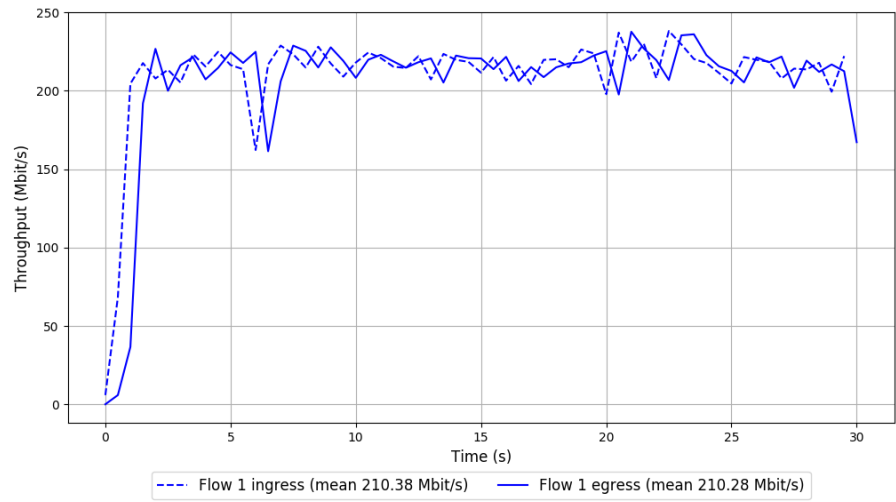


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-07-17 16:09:55
End at: 2019-07-17 16:10:25
Local clock offset: 15.982 ms
Remote clock offset: 16.91 ms

# Below is generated by plot.py at 2019-07-17 20:51:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.28 Mbit/s
95th percentile per-packet one-way delay: 86.677 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 210.28 Mbit/s
95th percentile per-packet one-way delay: 86.677 ms
Loss rate: 0.63%
```

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

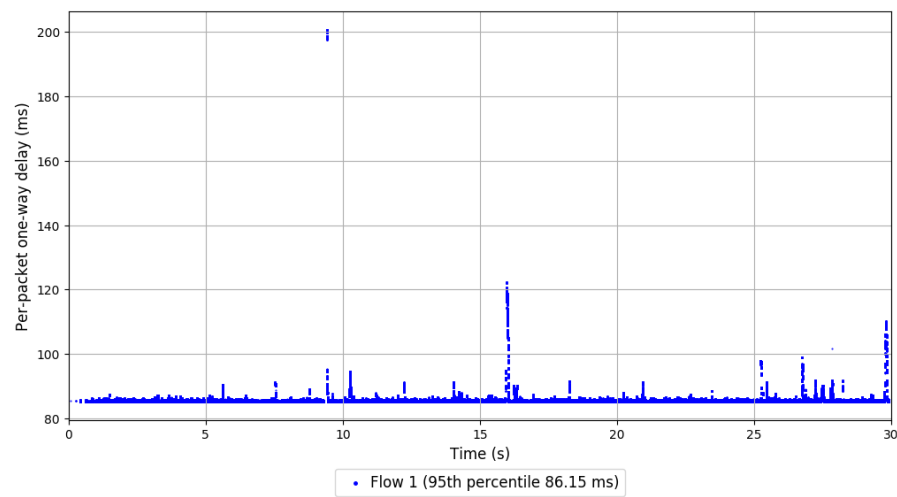
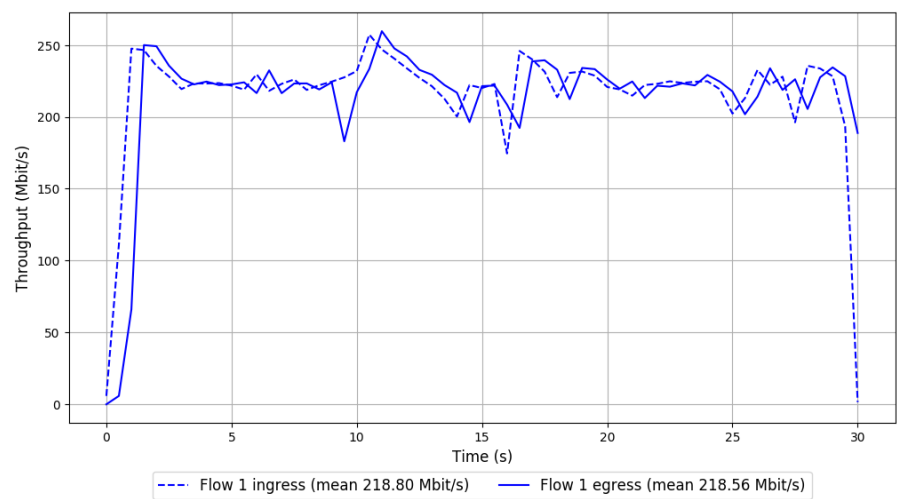


Run 2: Statistics of TaoVA-100x

Start at: 2019-07-17 16:45:19
End at: 2019-07-17 16:45:49
Local clock offset: 24.297 ms
Remote clock offset: 25.605 ms

Below is generated by plot.py at 2019-07-17 20:52:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 218.56 Mbit/s
95th percentile per-packet one-way delay: 86.148 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 218.56 Mbit/s
95th percentile per-packet one-way delay: 86.148 ms
Loss rate: 0.69%

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

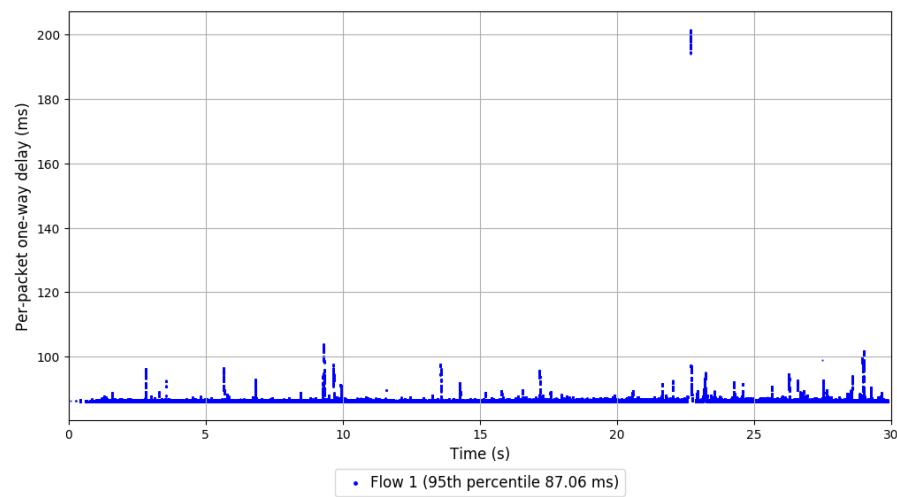
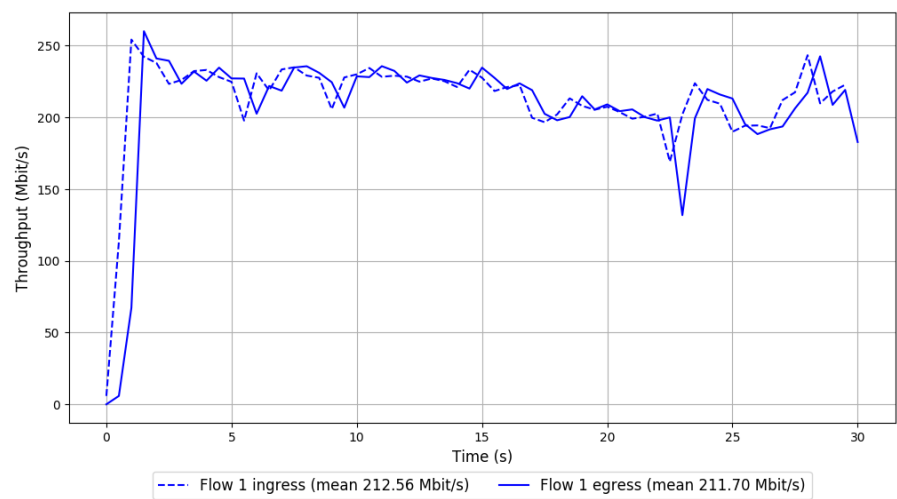


Run 3: Statistics of TaoVA-100x

Start at: 2019-07-17 17:20:35
End at: 2019-07-17 17:21:05
Local clock offset: 10.733 ms
Remote clock offset: 10.788 ms

Below is generated by plot.py at 2019-07-17 20:52:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.70 Mbit/s
95th percentile per-packet one-way delay: 87.059 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 211.70 Mbit/s
95th percentile per-packet one-way delay: 87.059 ms
Loss rate: 0.98%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-07-17 17:56:05

End at: 2019-07-17 17:56:35

Local clock offset: 3.886 ms

Remote clock offset: 3.864 ms

Below is generated by plot.py at 2019-07-17 20:52:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.14 Mbit/s

95th percentile per-packet one-way delay: 87.539 ms

Loss rate: 0.76%

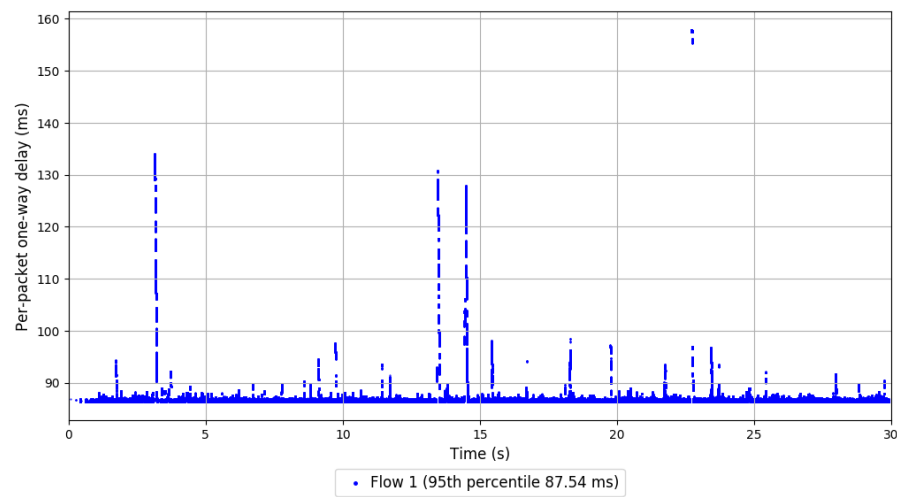
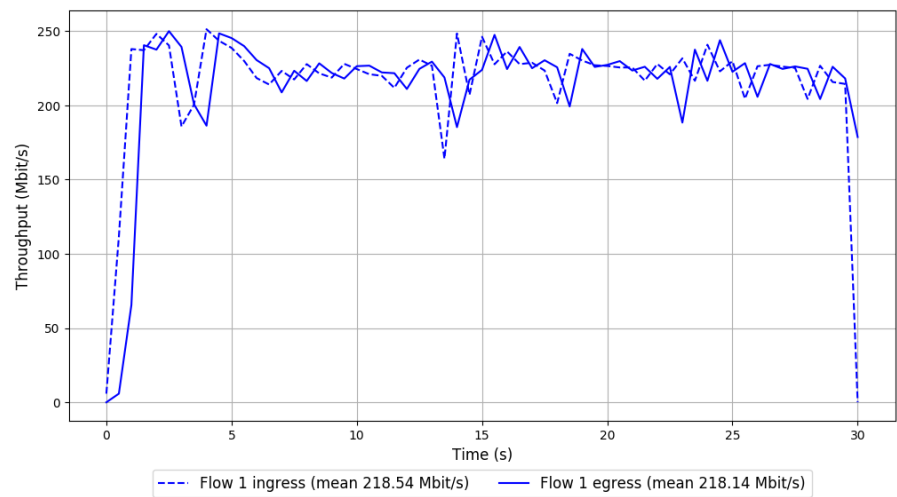
-- Flow 1:

Average throughput: 218.14 Mbit/s

95th percentile per-packet one-way delay: 87.539 ms

Loss rate: 0.76%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-17 18:31:29

End at: 2019-07-17 18:31:59

Local clock offset: 2.25 ms

Remote clock offset: 1.879 ms

Below is generated by plot.py at 2019-07-17 20:52:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.71 Mbit/s

95th percentile per-packet one-way delay: 87.892 ms

Loss rate: 2.27%

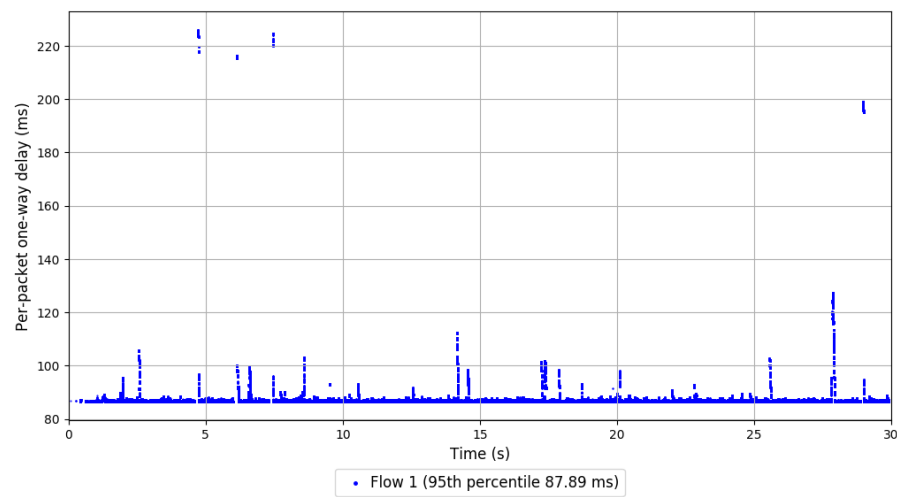
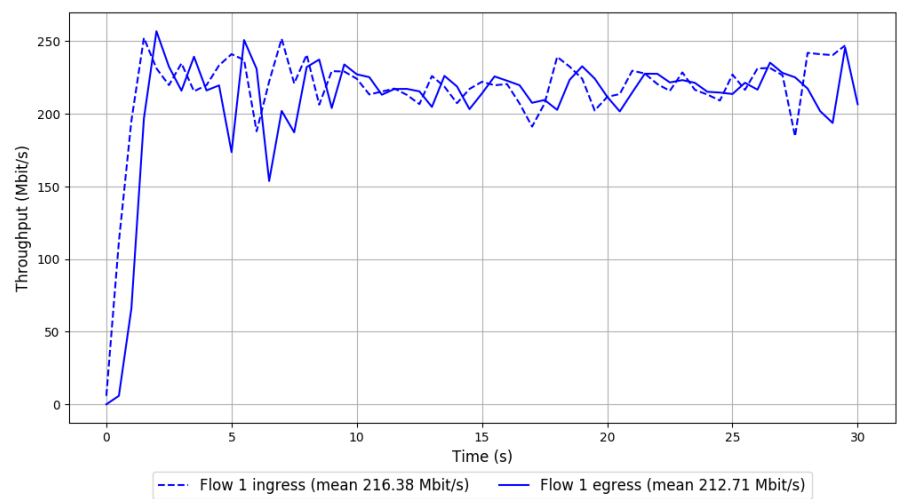
-- Flow 1:

Average throughput: 212.71 Mbit/s

95th percentile per-packet one-way delay: 87.892 ms

Loss rate: 2.27%

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

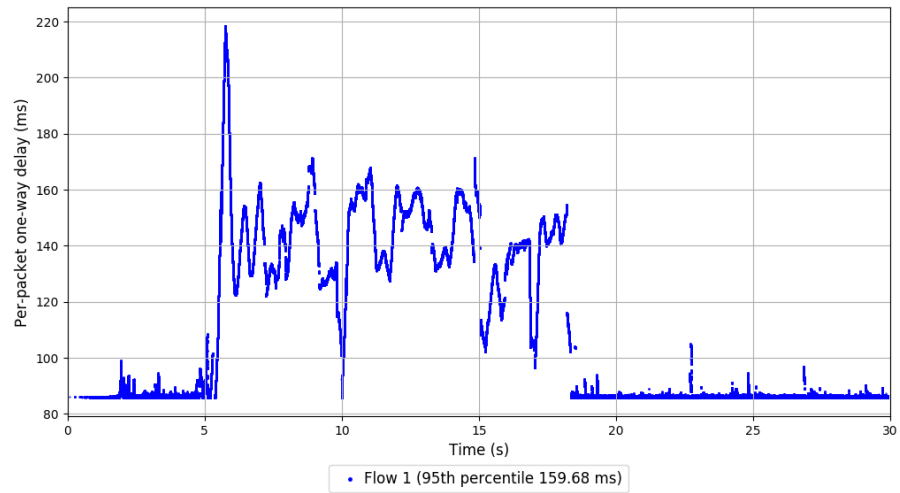
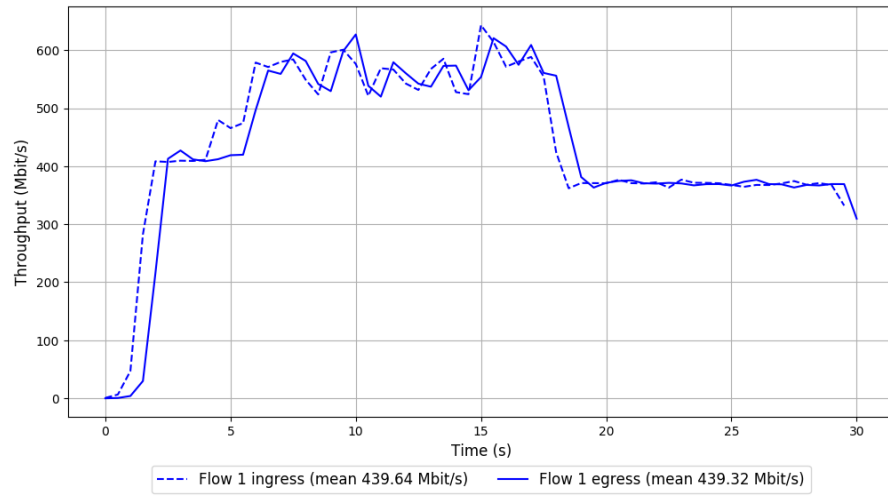


Run 1: Statistics of TCP Vegas

Start at: 2019-07-17 16:26:10
End at: 2019-07-17 16:26:40
Local clock offset: 24.889 ms
Remote clock offset: 25.759 ms

Below is generated by plot.py at 2019-07-17 20:53:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 439.32 Mbit/s
95th percentile per-packet one-way delay: 159.682 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 439.32 Mbit/s
95th percentile per-packet one-way delay: 159.682 ms
Loss rate: 0.49%

Run 1: Report of TCP Vegas — Data Link

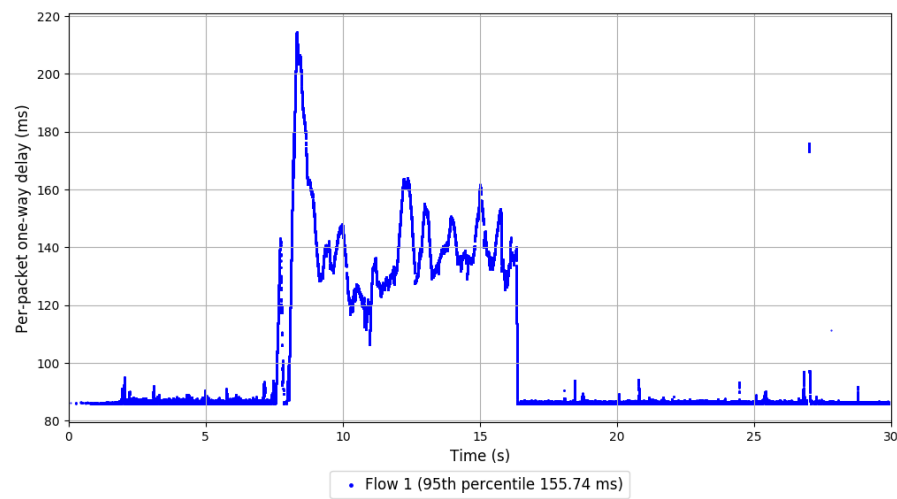
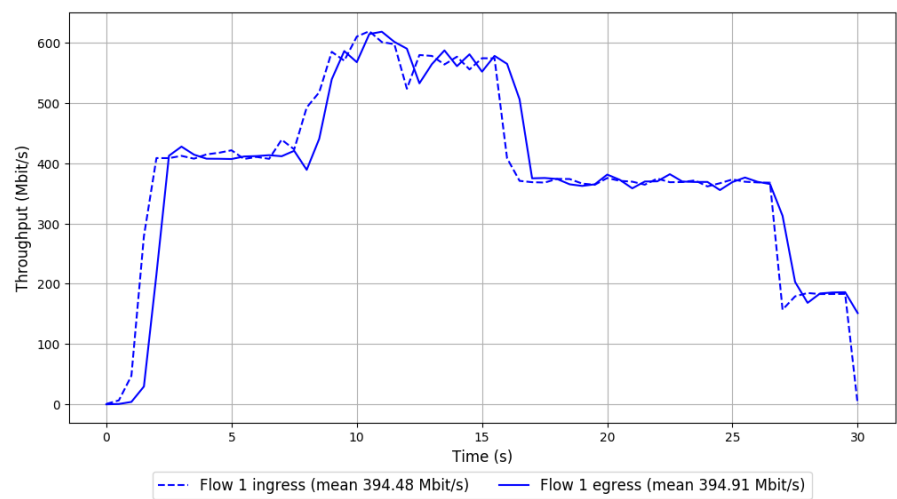


Run 2: Statistics of TCP Vegas

Start at: 2019-07-17 17:01:34
End at: 2019-07-17 17:02:04
Local clock offset: 41.71 ms
Remote clock offset: 42.869 ms

Below is generated by plot.py at 2019-07-17 20:53:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 394.91 Mbit/s
95th percentile per-packet one-way delay: 155.740 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 394.91 Mbit/s
95th percentile per-packet one-way delay: 155.740 ms
Loss rate: 0.47%

Run 2: Report of TCP Vegas — Data Link

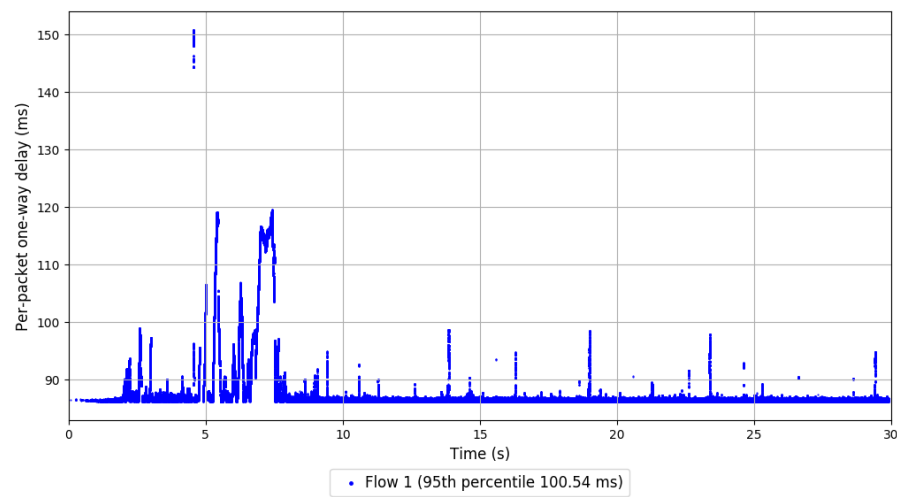
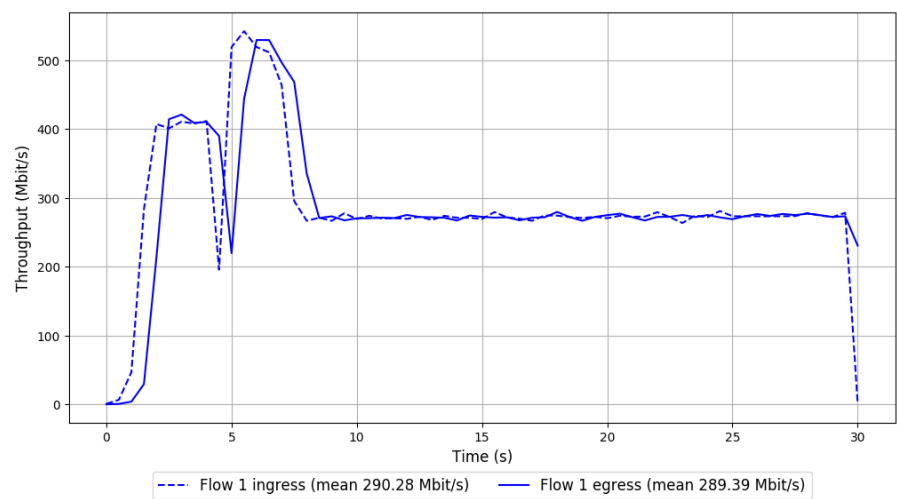


Run 3: Statistics of TCP Vegas

Start at: 2019-07-17 17:36:53
End at: 2019-07-17 17:37:23
Local clock offset: 10.888 ms
Remote clock offset: 10.898 ms

Below is generated by plot.py at 2019-07-17 20:53:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 289.39 Mbit/s
95th percentile per-packet one-way delay: 100.542 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 289.39 Mbit/s
95th percentile per-packet one-way delay: 100.542 ms
Loss rate: 0.88%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-07-17 18:12:21

End at: 2019-07-17 18:12:51

Local clock offset: 4.473 ms

Remote clock offset: 4.318 ms

Below is generated by plot.py at 2019-07-17 20:59:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.37 Mbit/s

95th percentile per-packet one-way delay: 157.030 ms

Loss rate: 0.78%

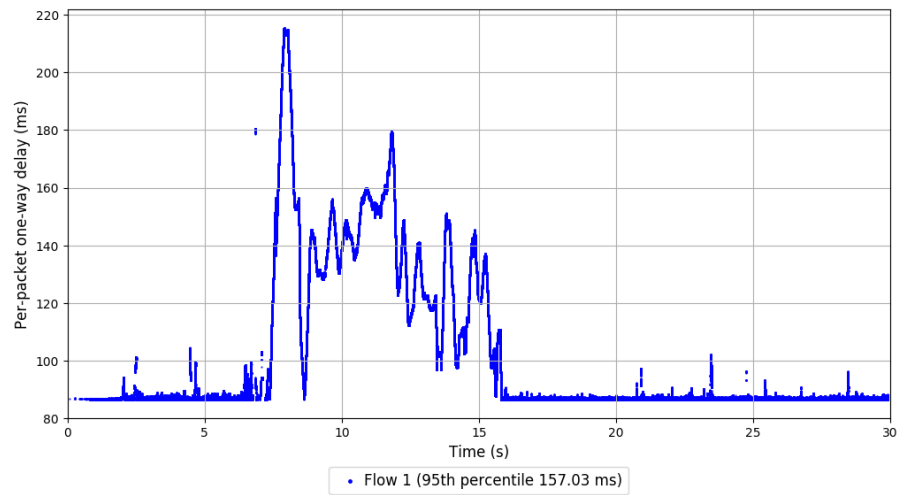
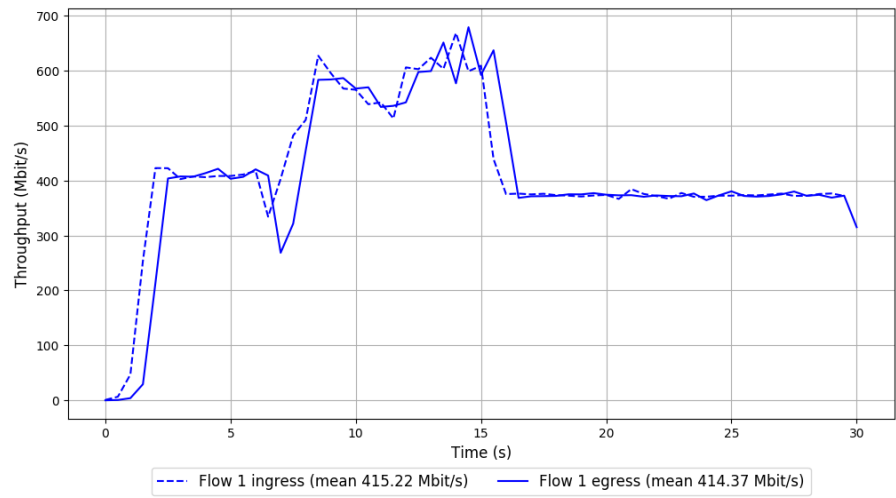
-- Flow 1:

Average throughput: 414.37 Mbit/s

95th percentile per-packet one-way delay: 157.030 ms

Loss rate: 0.78%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-07-17 18:47:53

End at: 2019-07-17 18:48:23

Local clock offset: 2.19 ms

Remote clock offset: 1.844 ms

Below is generated by plot.py at 2019-07-17 21:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.60 Mbit/s

95th percentile per-packet one-way delay: 99.471 ms

Loss rate: 0.87%

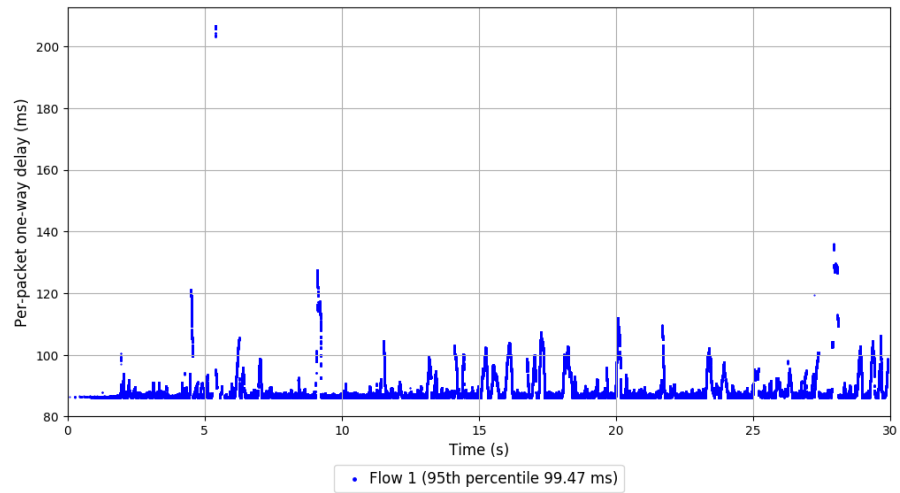
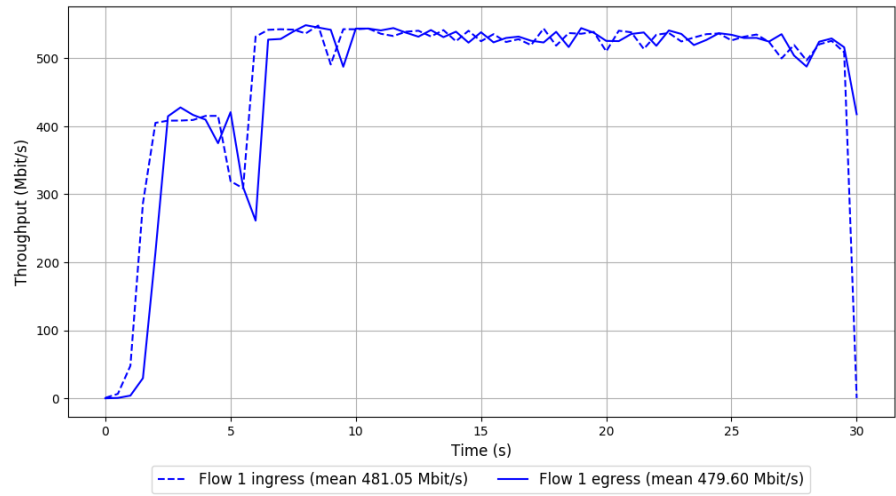
-- Flow 1:

Average throughput: 479.60 Mbit/s

95th percentile per-packet one-way delay: 99.471 ms

Loss rate: 0.87%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-07-17 16:04:27

End at: 2019-07-17 16:04:57

Local clock offset: 10.314 ms

Remote clock offset: 9.955 ms

Below is generated by plot.py at 2019-07-17 21:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.36 Mbit/s

95th percentile per-packet one-way delay: 205.191 ms

Loss rate: 1.72%

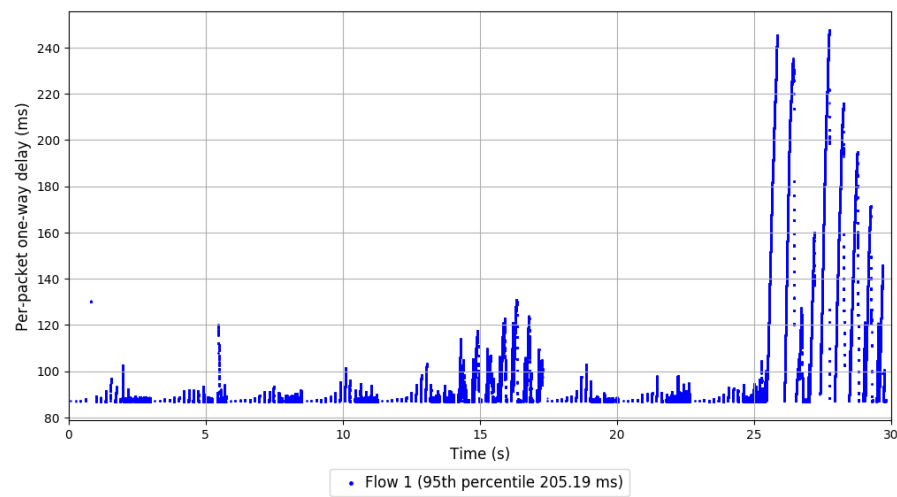
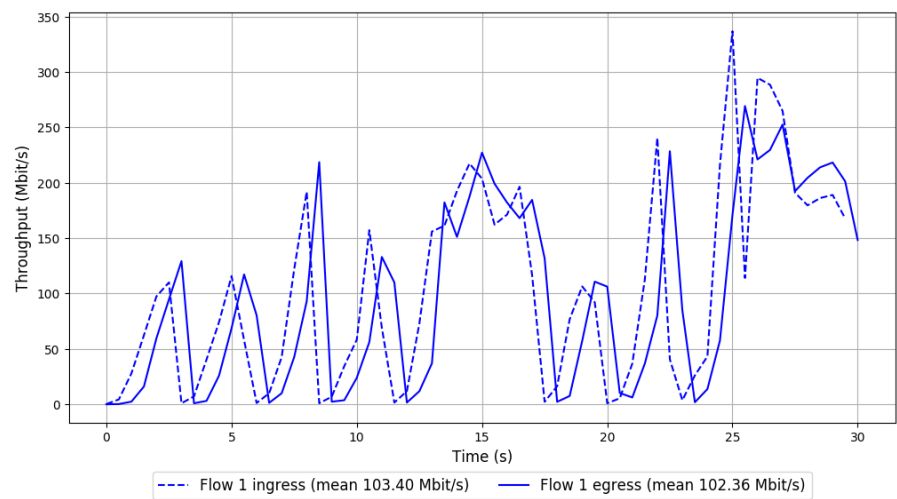
-- Flow 1:

Average throughput: 102.36 Mbit/s

95th percentile per-packet one-way delay: 205.191 ms

Loss rate: 1.72%

Run 1: Report of Verus — Data Link

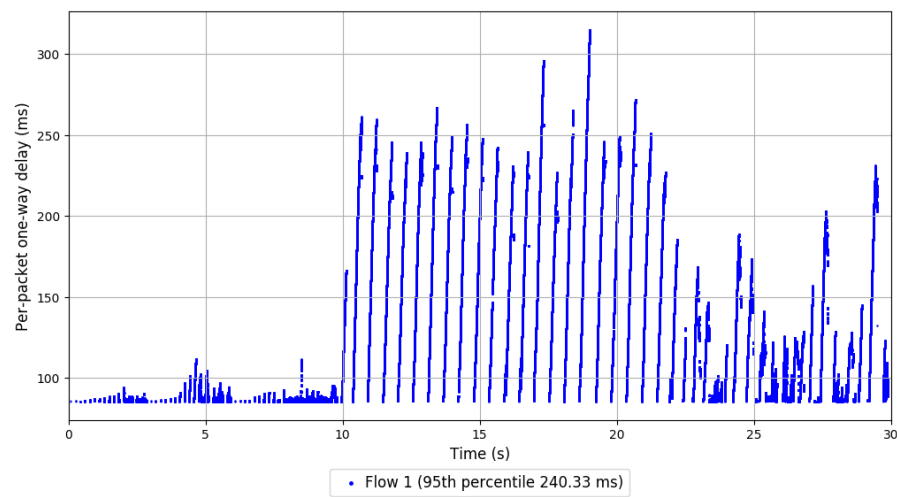
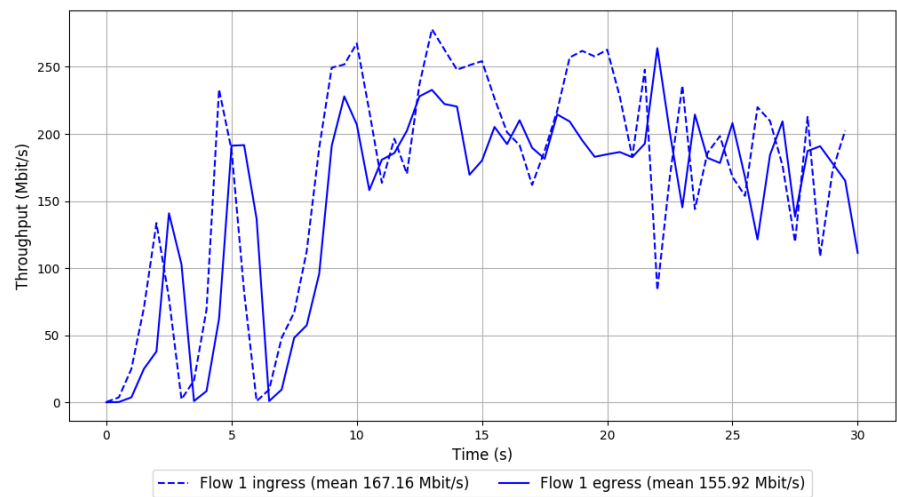


Run 2: Statistics of Verus

Start at: 2019-07-17 16:39:36
End at: 2019-07-17 16:40:06
Local clock offset: 20.97 ms
Remote clock offset: 22.102 ms

Below is generated by plot.py at 2019-07-17 21:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 155.92 Mbit/s
95th percentile per-packet one-way delay: 240.327 ms
Loss rate: 7.24%
-- Flow 1:
Average throughput: 155.92 Mbit/s
95th percentile per-packet one-way delay: 240.327 ms
Loss rate: 7.24%

Run 2: Report of Verus — Data Link

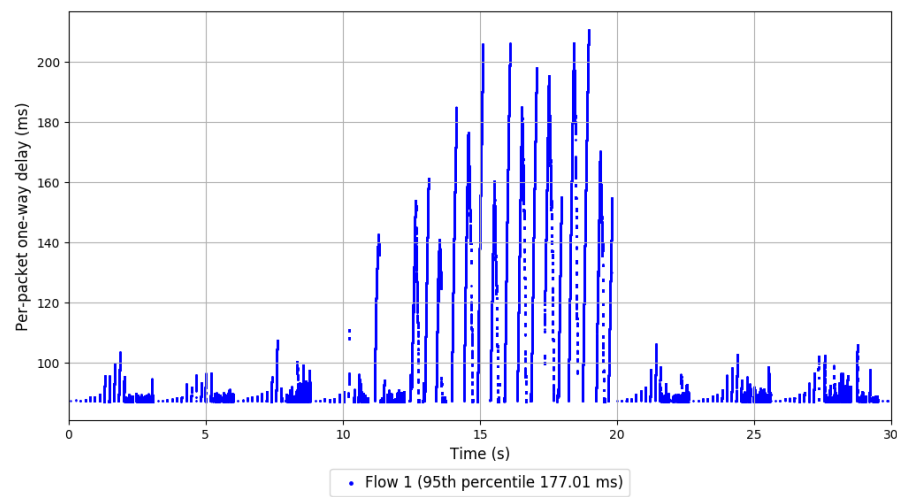
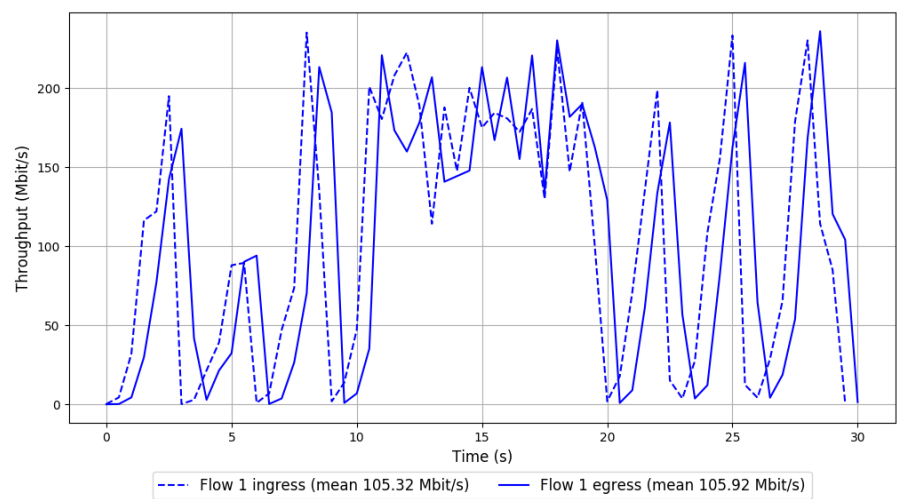


Run 3: Statistics of Verus

Start at: 2019-07-17 17:15:02
End at: 2019-07-17 17:15:32
Local clock offset: 14.402 ms
Remote clock offset: 13.902 ms

Below is generated by plot.py at 2019-07-17 21:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.92 Mbit/s
95th percentile per-packet one-way delay: 177.013 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 105.92 Mbit/s
95th percentile per-packet one-way delay: 177.013 ms
Loss rate: 0.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-07-17 17:50:23

End at: 2019-07-17 17:50:53

Local clock offset: 3.478 ms

Remote clock offset: 4.168 ms

Below is generated by plot.py at 2019-07-17 21:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.72 Mbit/s

95th percentile per-packet one-way delay: 147.744 ms

Loss rate: 1.12%

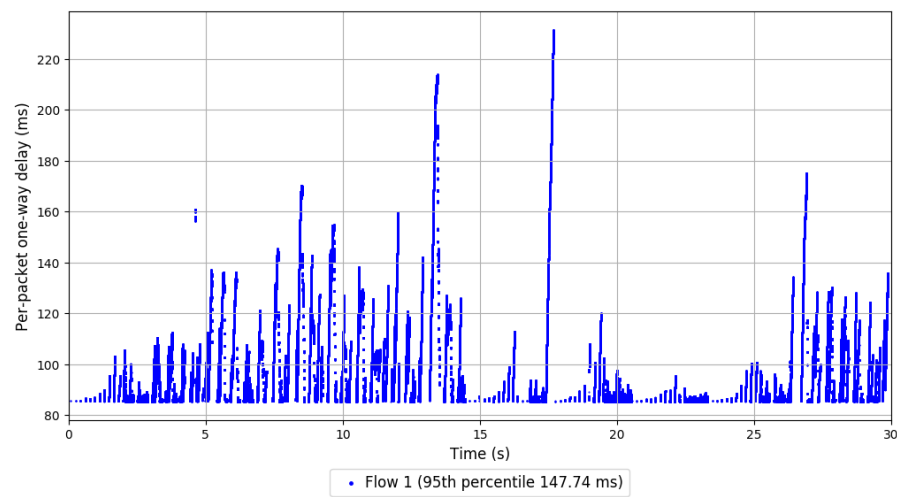
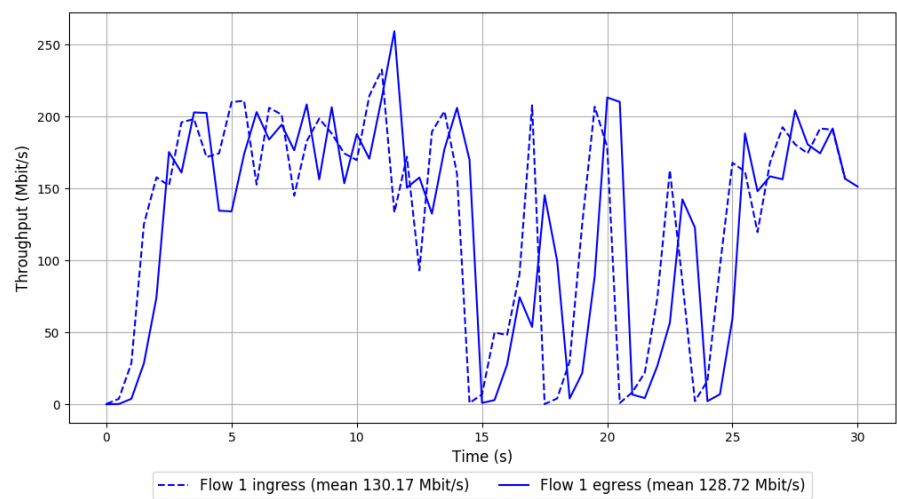
-- Flow 1:

Average throughput: 128.72 Mbit/s

95th percentile per-packet one-way delay: 147.744 ms

Loss rate: 1.12%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-07-17 18:25:54

End at: 2019-07-17 18:26:24

Local clock offset: 1.681 ms

Remote clock offset: 1.898 ms

Below is generated by plot.py at 2019-07-17 21:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 261.218 ms

Loss rate: 4.91%

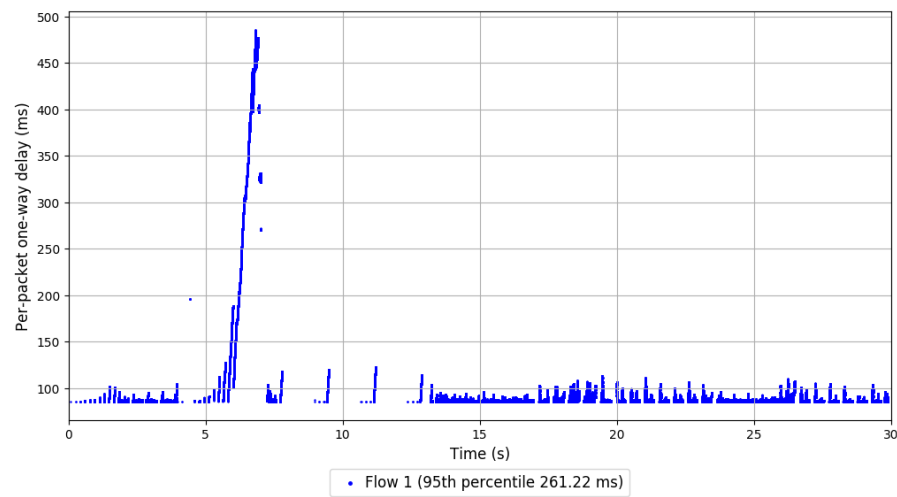
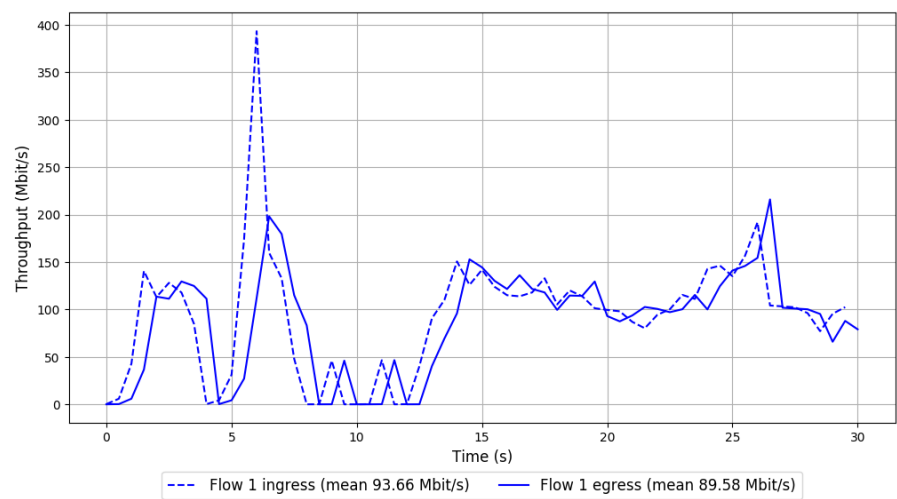
-- Flow 1:

Average throughput: 89.58 Mbit/s

95th percentile per-packet one-way delay: 261.218 ms

Loss rate: 4.91%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-07-17 15:58:07

End at: 2019-07-17 15:58:37

Local clock offset: 6.228 ms

Remote clock offset: 7.241 ms

Below is generated by plot.py at 2019-07-17 21:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 85.513 ms

Loss rate: 1.86%

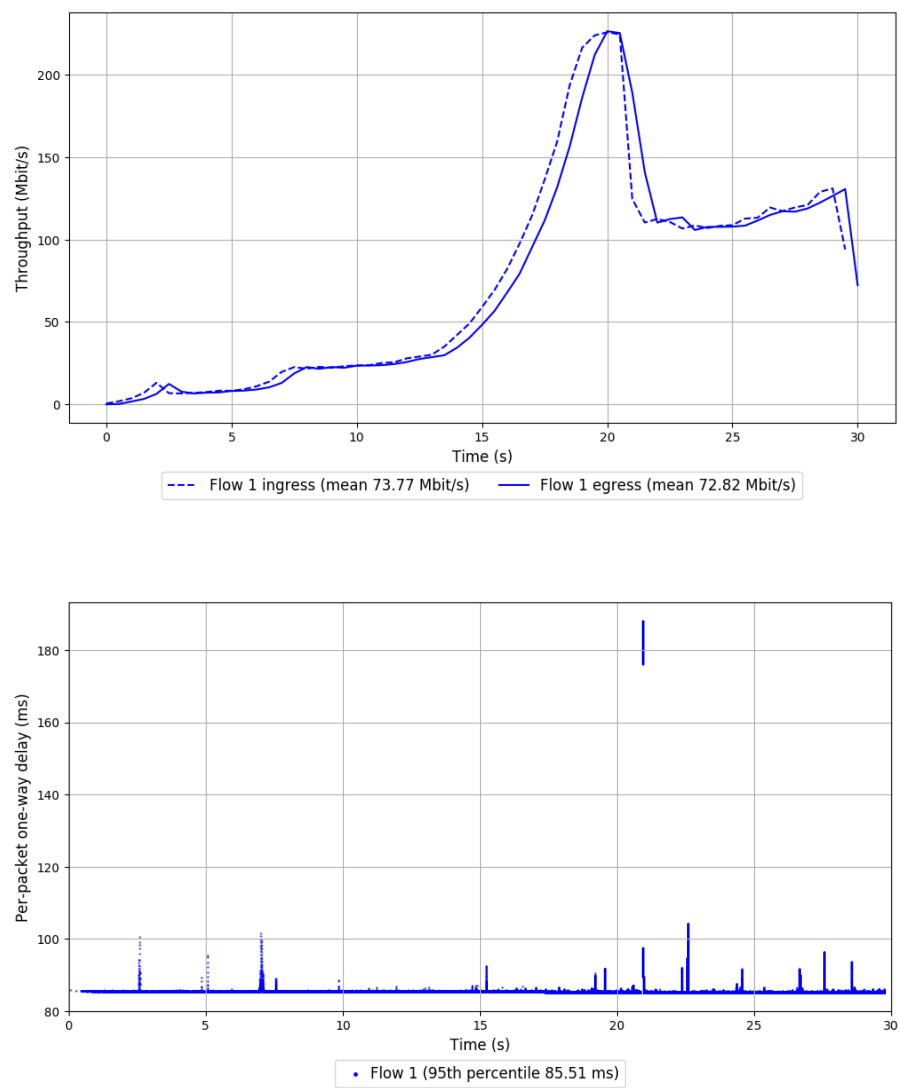
-- Flow 1:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 85.513 ms

Loss rate: 1.86%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-07-17 16:32:44

End at: 2019-07-17 16:33:14

Local clock offset: 23.029 ms

Remote clock offset: 23.38 ms

Below is generated by plot.py at 2019-07-17 21:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.59 Mbit/s

95th percentile per-packet one-way delay: 104.269 ms

Loss rate: 1.10%

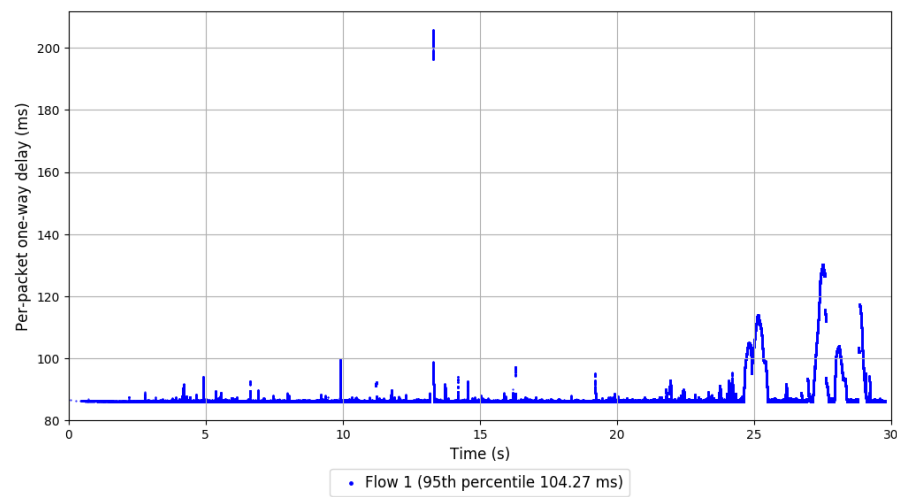
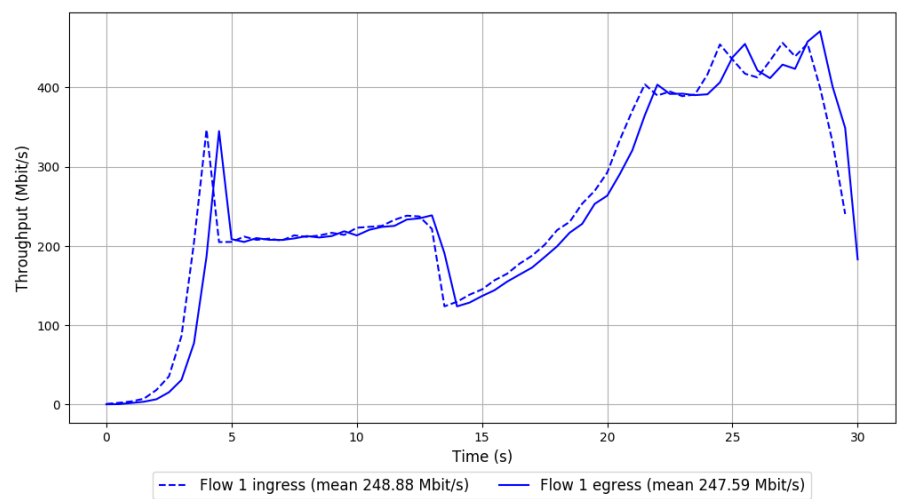
-- Flow 1:

Average throughput: 247.59 Mbit/s

95th percentile per-packet one-way delay: 104.269 ms

Loss rate: 1.10%

Run 2: Report of PCC-Vivace — Data Link

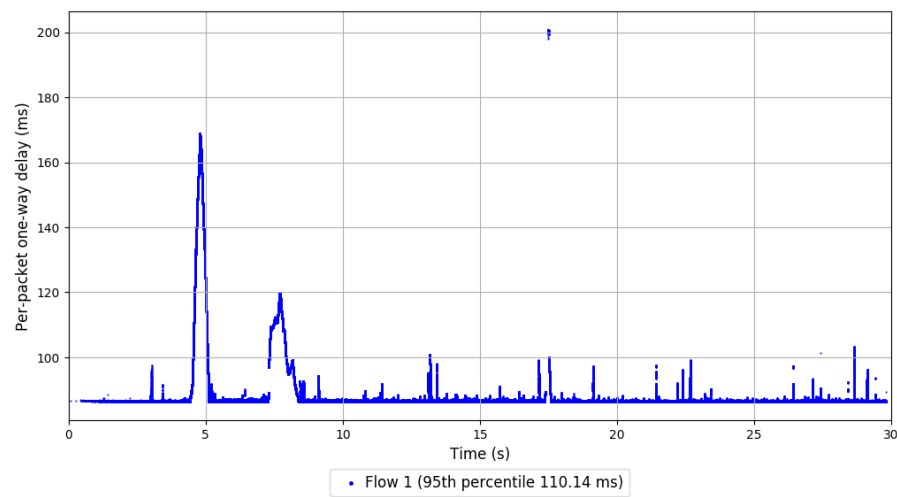
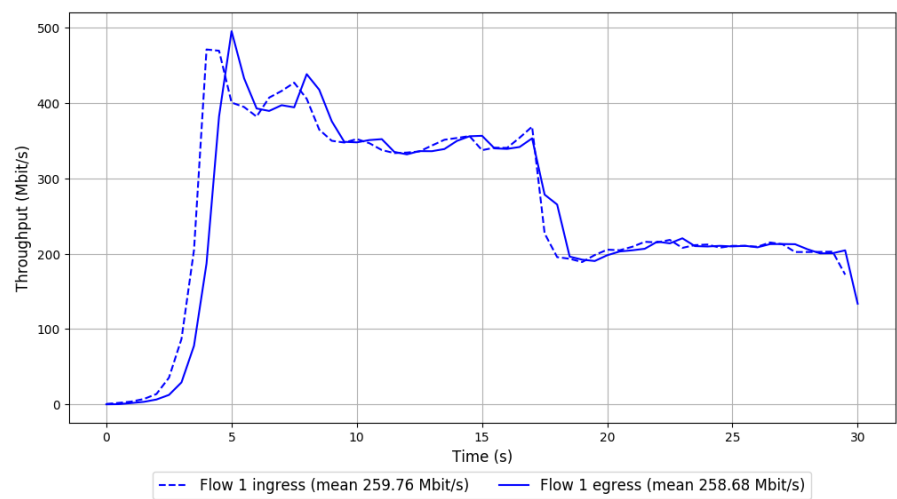


Run 3: Statistics of PCC-Vivace

Start at: 2019-07-17 17:08:10
End at: 2019-07-17 17:08:40
Local clock offset: 24.918 ms
Remote clock offset: 24.884 ms

Below is generated by plot.py at 2019-07-17 21:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 258.68 Mbit/s
95th percentile per-packet one-way delay: 110.140 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 258.68 Mbit/s
95th percentile per-packet one-way delay: 110.140 ms
Loss rate: 0.98%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-07-17 17:43:23

End at: 2019-07-17 17:43:53

Local clock offset: 6.271 ms

Remote clock offset: 6.093 ms

Below is generated by plot.py at 2019-07-17 21:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.45 Mbit/s

95th percentile per-packet one-way delay: 90.265 ms

Loss rate: 0.93%

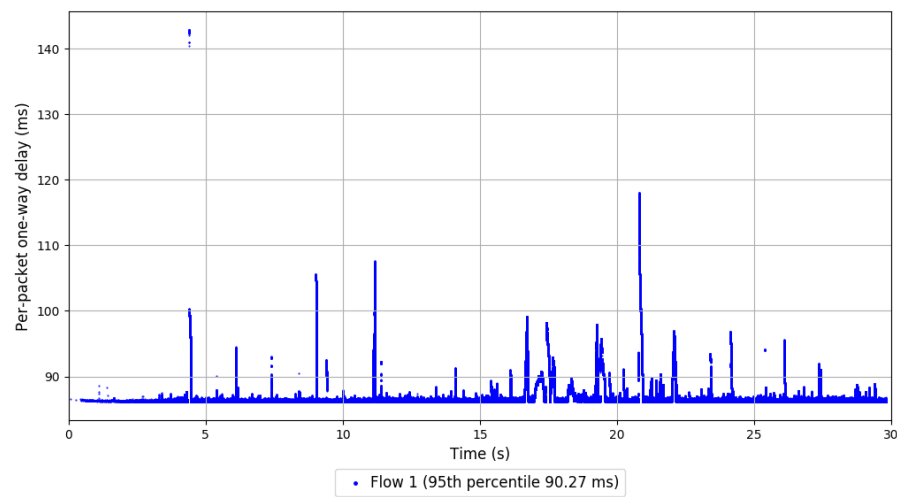
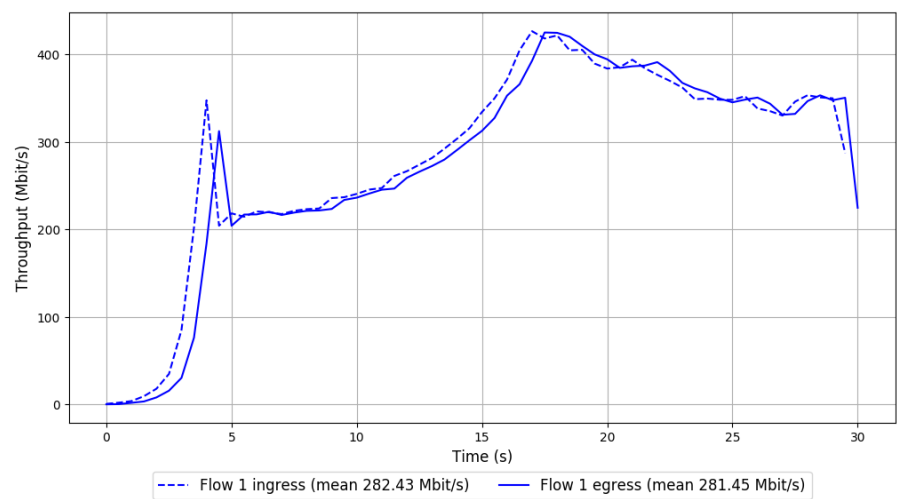
-- Flow 1:

Average throughput: 281.45 Mbit/s

95th percentile per-packet one-way delay: 90.265 ms

Loss rate: 0.93%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-07-17 18:18:56

End at: 2019-07-17 18:19:26

Local clock offset: 2.616 ms

Remote clock offset: 2.476 ms

Below is generated by plot.py at 2019-07-17 21:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.20 Mbit/s

95th percentile per-packet one-way delay: 173.781 ms

Loss rate: 0.60%

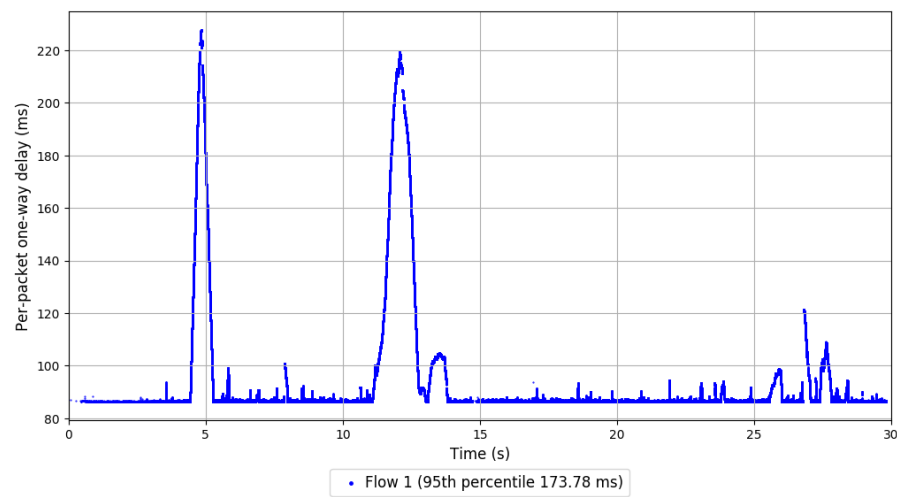
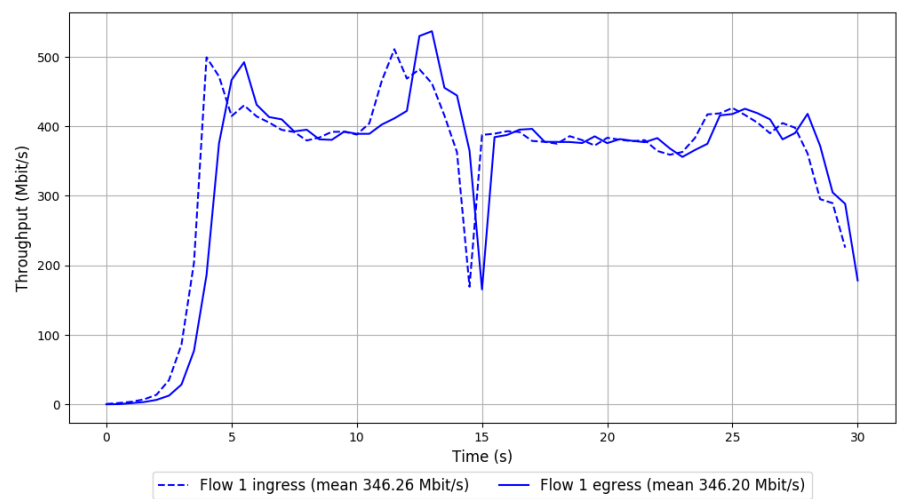
-- Flow 1:

Average throughput: 346.20 Mbit/s

95th percentile per-packet one-way delay: 173.781 ms

Loss rate: 0.60%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

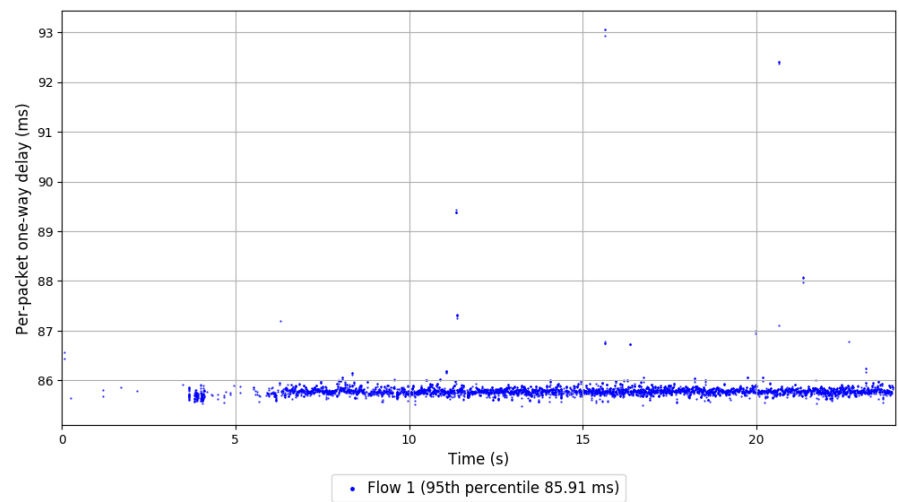
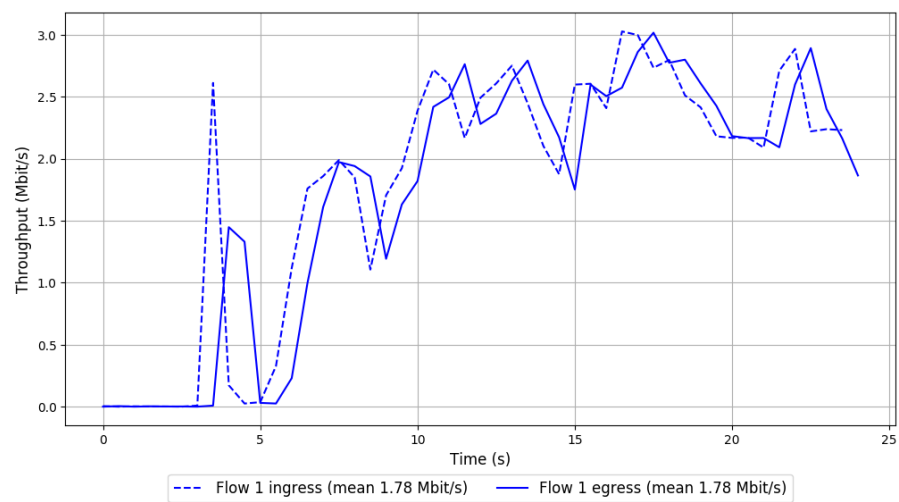
Start at: 2019-07-17 16:18:47

End at: 2019-07-17 16:19:17

Local clock offset: 14.862 ms

Remote clock offset: 15.997 ms

Run 1: Report of WebRTC media — Data Link

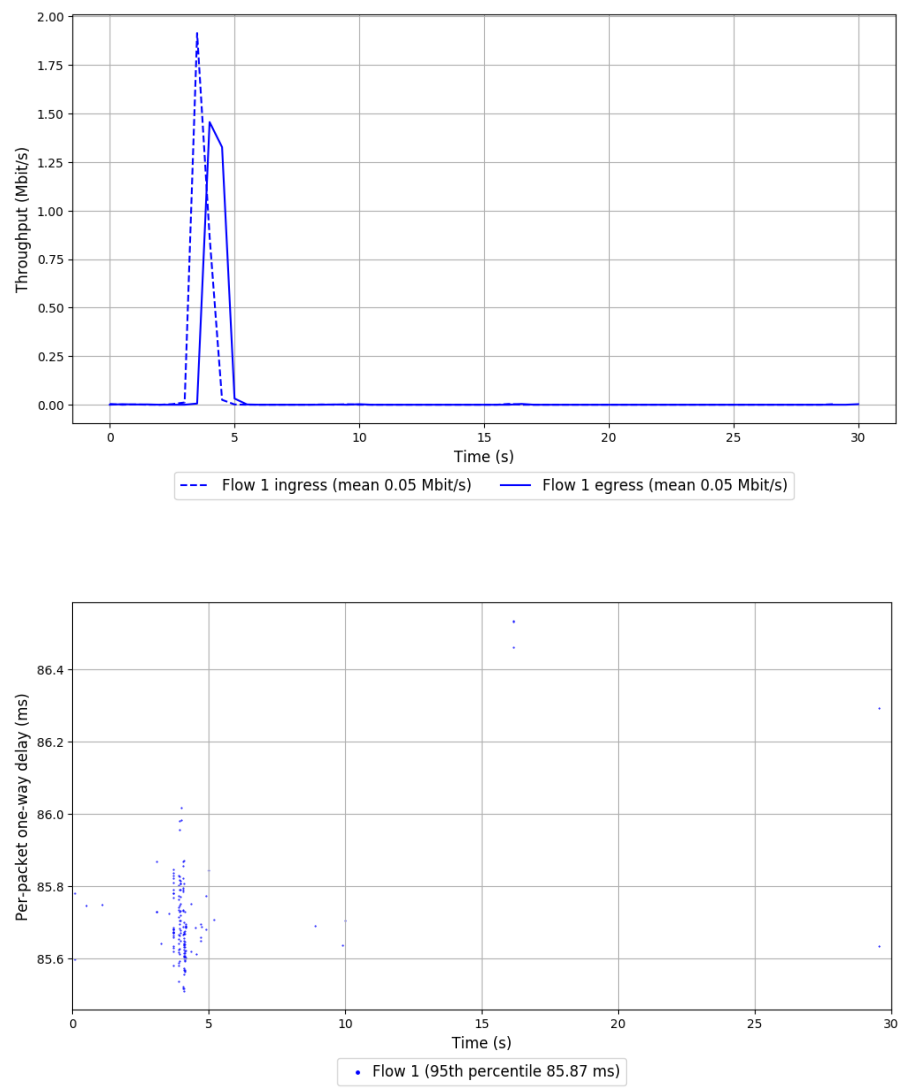


Run 2: Statistics of WebRTC media

Start at: 2019-07-17 16:54:15
End at: 2019-07-17 16:54:45
Local clock offset: 32.853 ms
Remote clock offset: 34.177 ms

Below is generated by plot.py at 2019-07-17 21:00:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.871 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

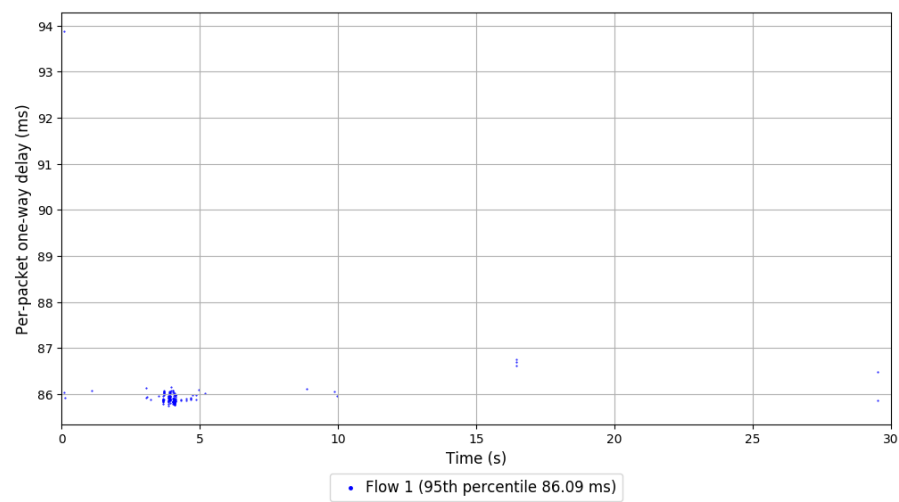
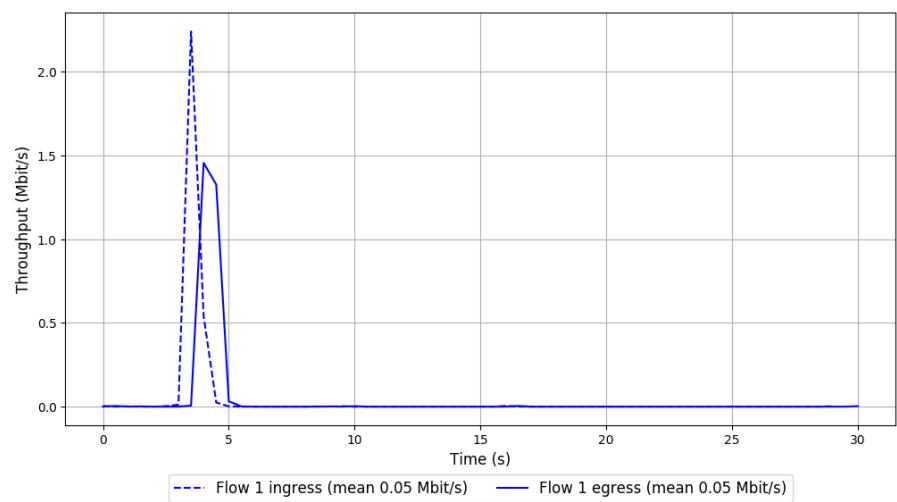


Run 3: Statistics of WebRTC media

Start at: 2019-07-17 17:29:29
End at: 2019-07-17 17:29:59
Local clock offset: 9.733 ms
Remote clock offset: 10.093 ms

Below is generated by plot.py at 2019-07-17 21:00:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.090 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-07-17 18:04:59

End at: 2019-07-17 18:05:29

Local clock offset: 4.266 ms

Remote clock offset: 4.338 ms

Below is generated by plot.py at 2019-07-17 21:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.410 ms

Loss rate: 0.00%

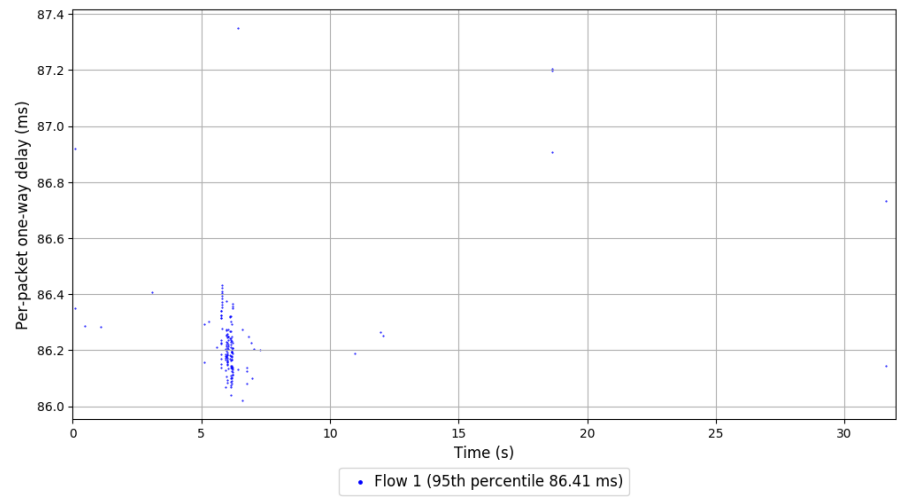
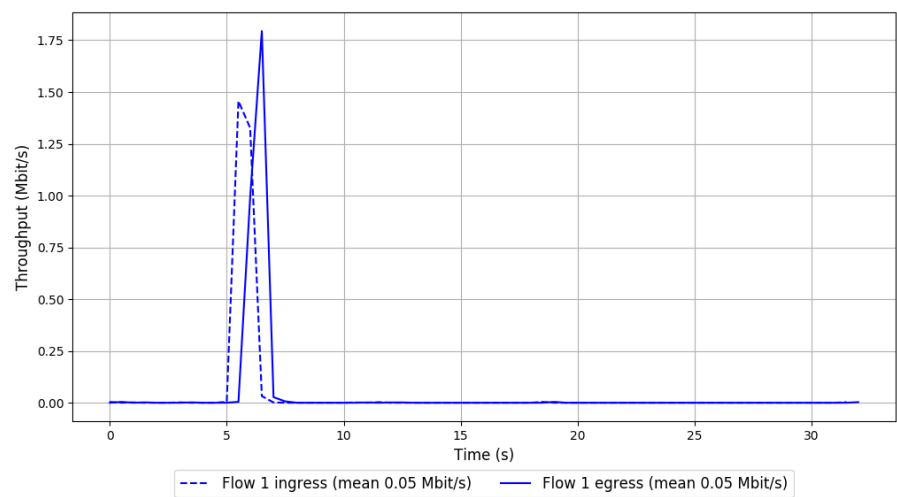
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.410 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-17 18:40:27

End at: 2019-07-17 18:40:57

Local clock offset: 1.725 ms

Remote clock offset: 2.18 ms

Below is generated by plot.py at 2019-07-17 21:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.002 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 86.002 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

