

## Pantheon Report

Generated at 2019-01-19 07:59:50 (UTC).

Data path: India on *em1 (remote)* → AWS India 1 on *ens5 (local)*.

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

NTP offsets were measured against **nets.org.sg** and have been applied to correct the timestamps in logs.

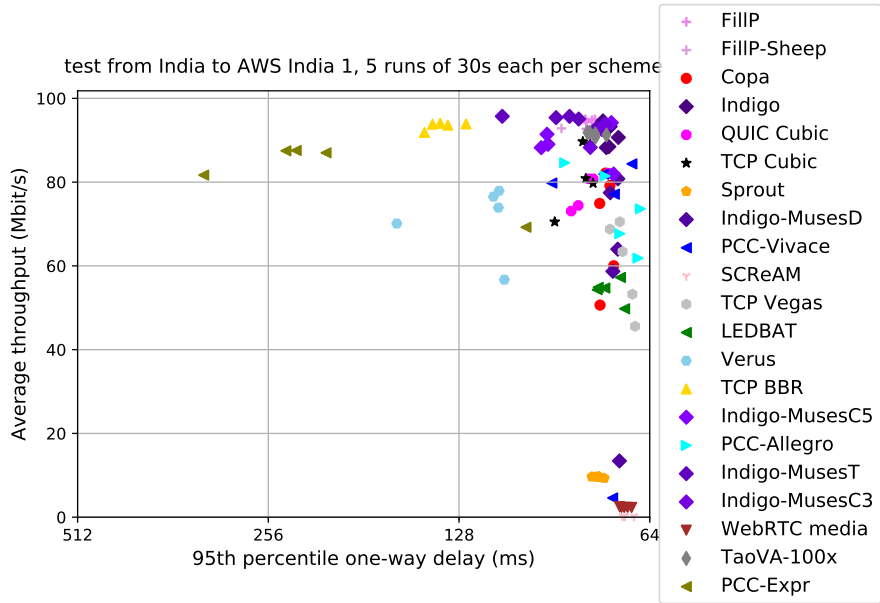
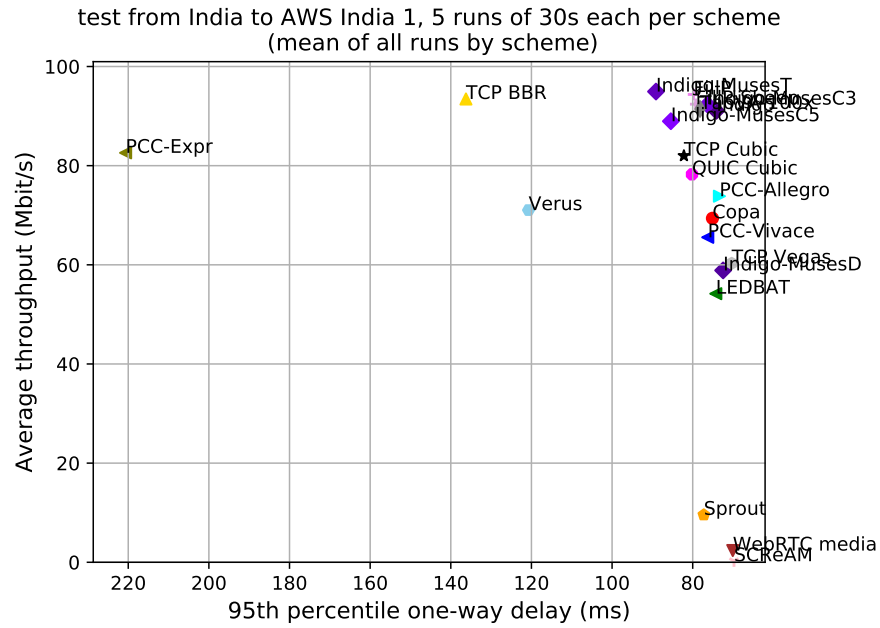
### System info:

```
Linux 4.15.0-1031-aws
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 @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	93.46	136.24	2.44
Copa	5	69.38	75.11	0.26
TCP Cubic	5	81.99	82.19	0.30
FillP	5	94.36	79.82	0.39
FillP-Sheep	5	92.40	79.29	0.27
Indigo	5	91.06	74.14	0.27
Indigo-MusesC3	5	92.32	76.33	0.28
Indigo-MusesC5	5	88.96	85.42	0.31
Indigo-MusesD	5	58.87	72.46	0.21
Indigo-MusesT	5	94.95	89.11	0.39
LEDBAT	5	54.18	74.28	0.34
PCC-Allegro	5	73.84	73.37	0.38
PCC-Expr	5	82.59	220.66	0.39
QUIC Cubic	5	78.25	80.18	0.33
SCReAM	5	0.22	69.76	0.26
Sprout	5	9.57	77.25	0.27
TaoVA-100x	5	91.44	78.18	0.25
TCP Vegas	5	60.30	70.34	0.32
Verus	5	71.04	120.72	0.39
PCC-Vivace	5	65.55	76.27	0.34
WebRTC media	5	2.37	70.07	0.25



Run 1: Statistics of TCP BBR

Start at: 2019-01-19 05:28:48

End at: 2019-01-19 05:29:18

Local clock offset: -0.833 ms

Remote clock offset: 3.406 ms

# Below is generated by plot.py at 2019-01-19 07:48:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 133.330 ms

Loss rate: 2.58%

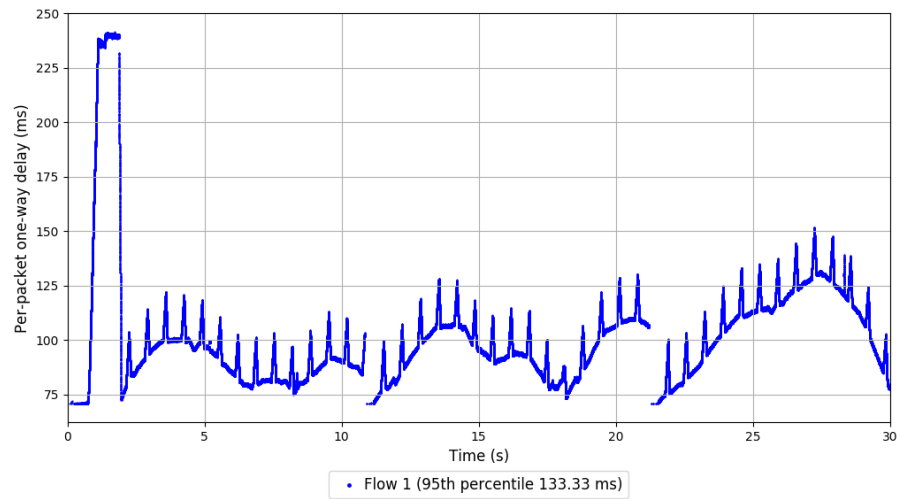
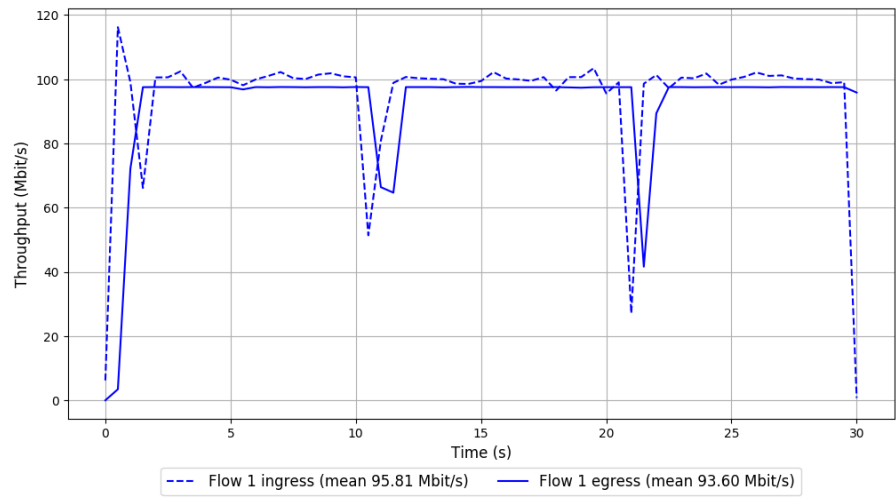
-- Flow 1:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 133.330 ms

Loss rate: 2.58%

### Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-19 05:59:19

End at: 2019-01-19 05:59:49

Local clock offset: 1.08 ms

Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2019-01-19 07:48:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 124.775 ms

Loss rate: 1.89%

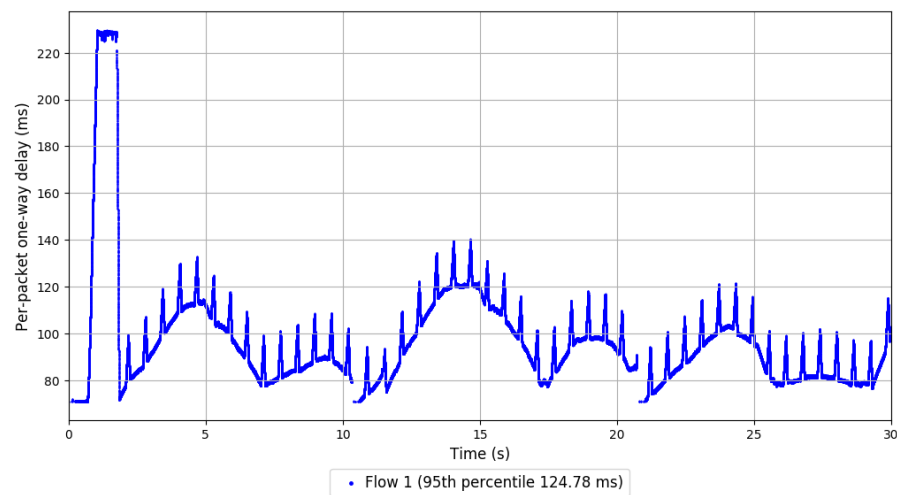
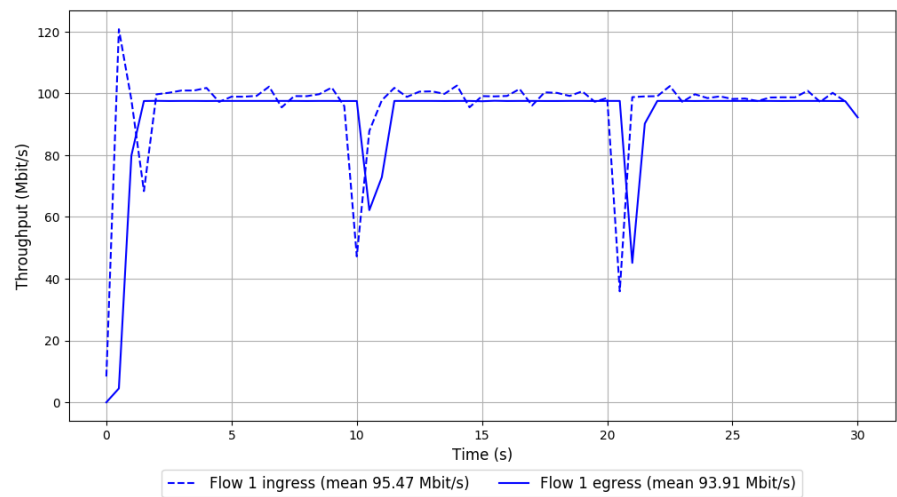
-- Flow 1:

Average throughput: 93.91 Mbit/s

95th percentile per-packet one-way delay: 124.775 ms

Loss rate: 1.89%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-19 06:28:10

End at: 2019-01-19 06:28:40

Local clock offset: 0.739 ms

Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2019-01-19 07:48:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 140.930 ms

Loss rate: 2.21%

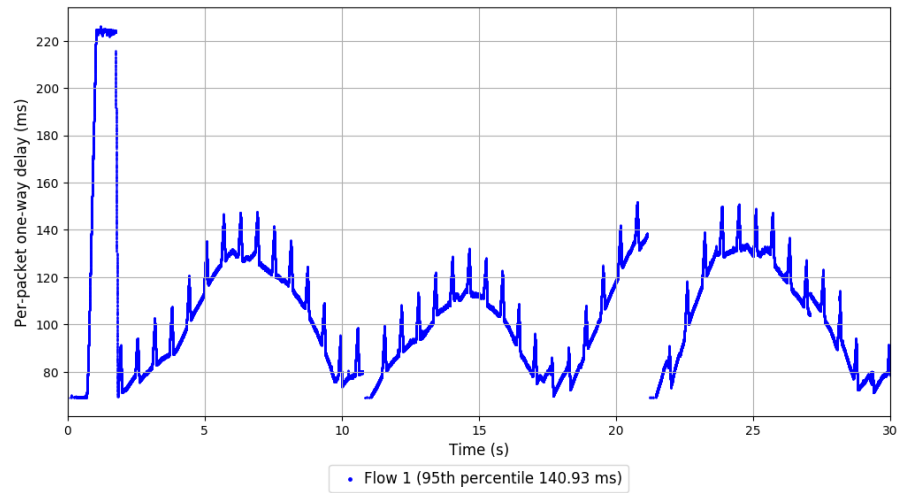
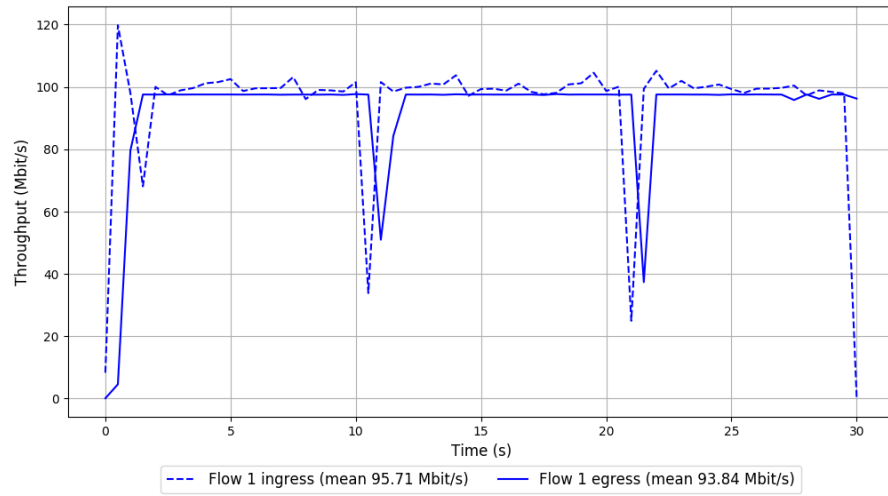
-- Flow 1:

Average throughput: 93.84 Mbit/s

95th percentile per-packet one-way delay: 140.930 ms

Loss rate: 2.21%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-01-19 06:58:33

End at: 2019-01-19 06:59:03

Local clock offset: 2.225 ms

Remote clock offset: -2.717 ms

# Below is generated by plot.py at 2019-01-19 07:48:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 2.39%

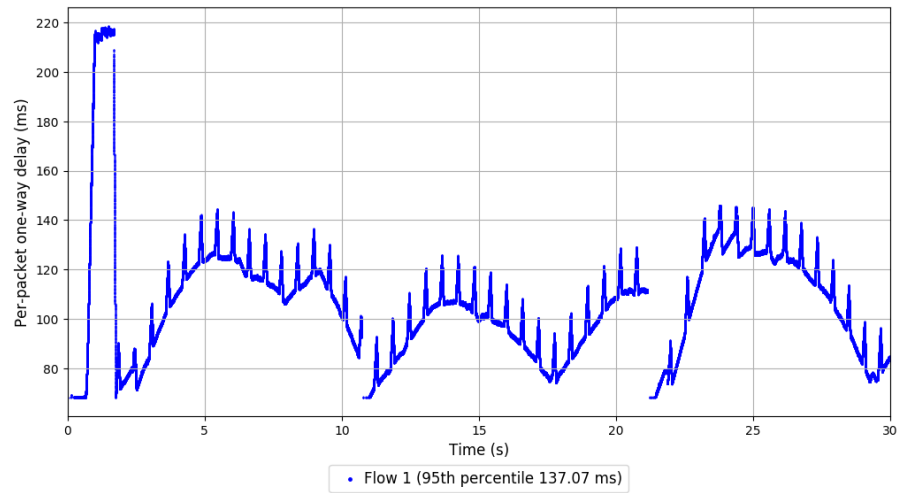
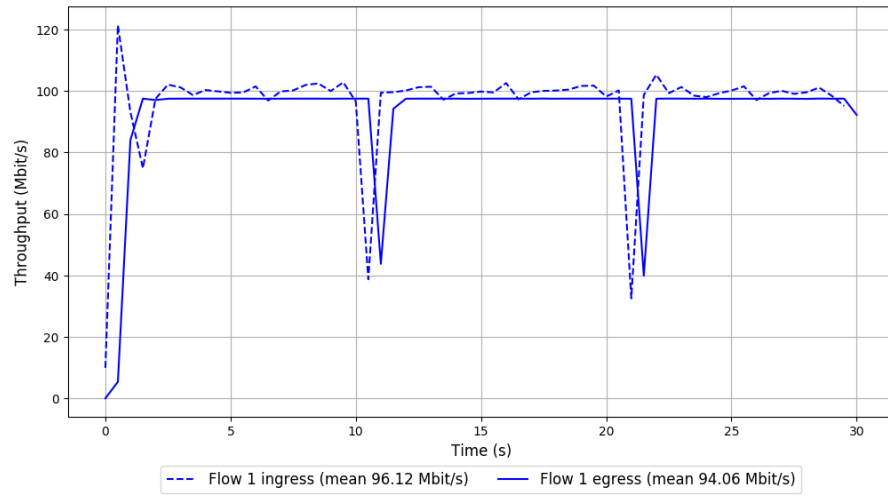
-- Flow 1:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 2.39%

#### Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-01-19 07:27:03

End at: 2019-01-19 07:27:33

Local clock offset: 1.627 ms

Remote clock offset: -1.023 ms

# Below is generated by plot.py at 2019-01-19 07:48:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 145.102 ms

Loss rate: 3.13%

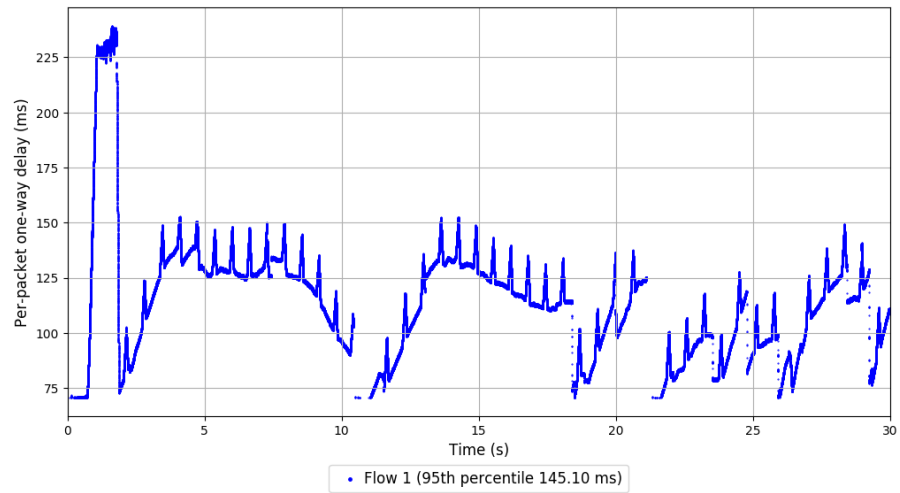
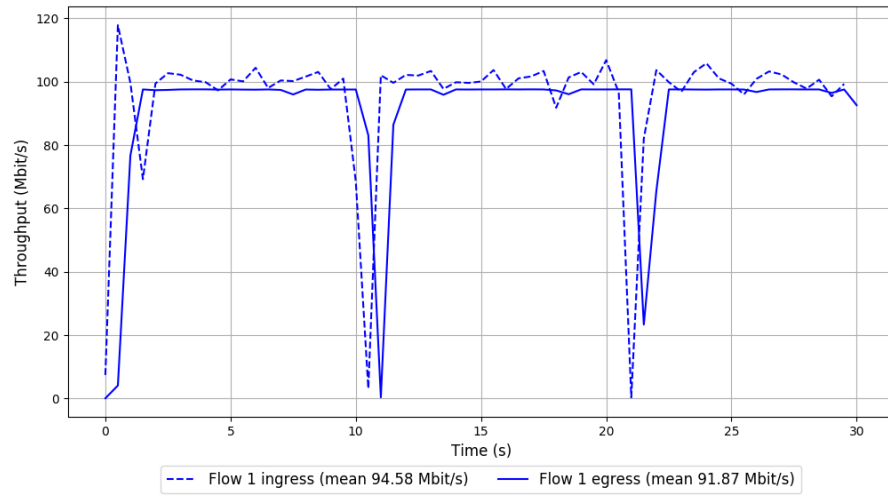
-- Flow 1:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 145.102 ms

Loss rate: 3.13%

### Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-01-19 05:42:34

End at: 2019-01-19 05:43:04

Local clock offset: 0.215 ms

Remote clock offset: 0.673 ms

# Below is generated by plot.py at 2019-01-19 07:48:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.18 Mbit/s

95th percentile per-packet one-way delay: 73.973 ms

Loss rate: 0.25%

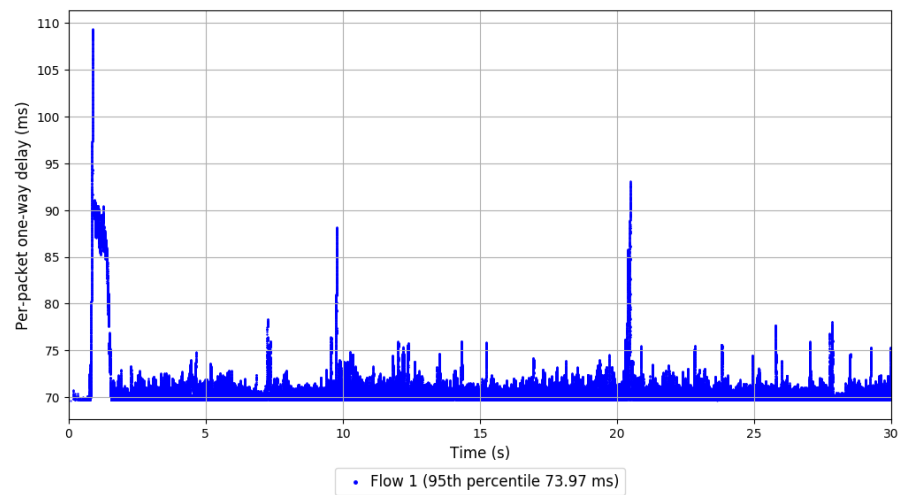
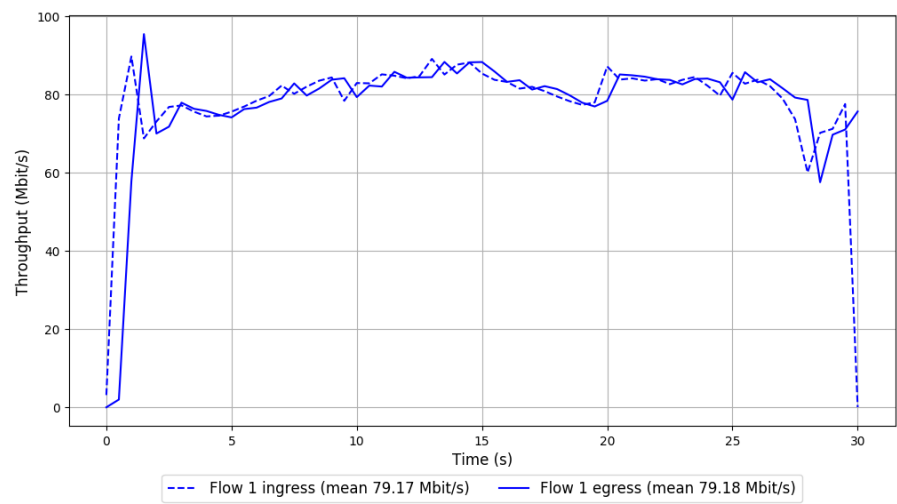
-- Flow 1:

Average throughput: 79.18 Mbit/s

95th percentile per-packet one-way delay: 73.973 ms

Loss rate: 0.25%

Run 1: Report of Copa — Data Link

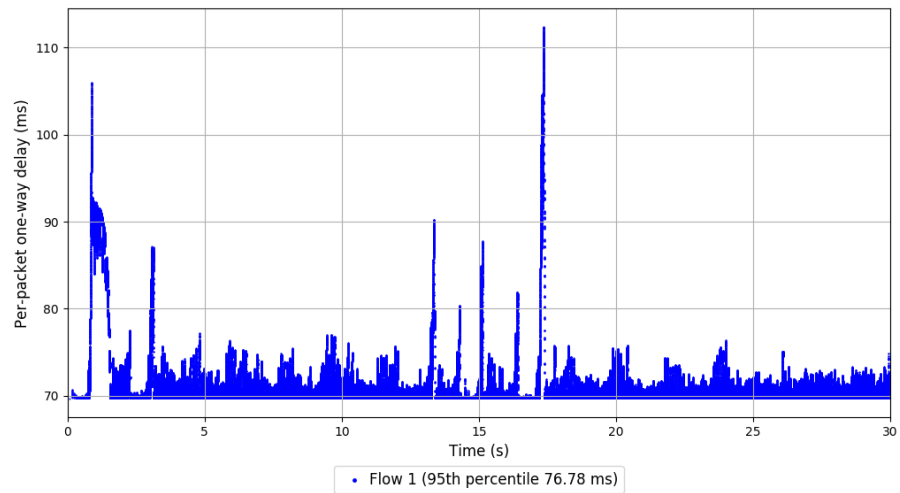
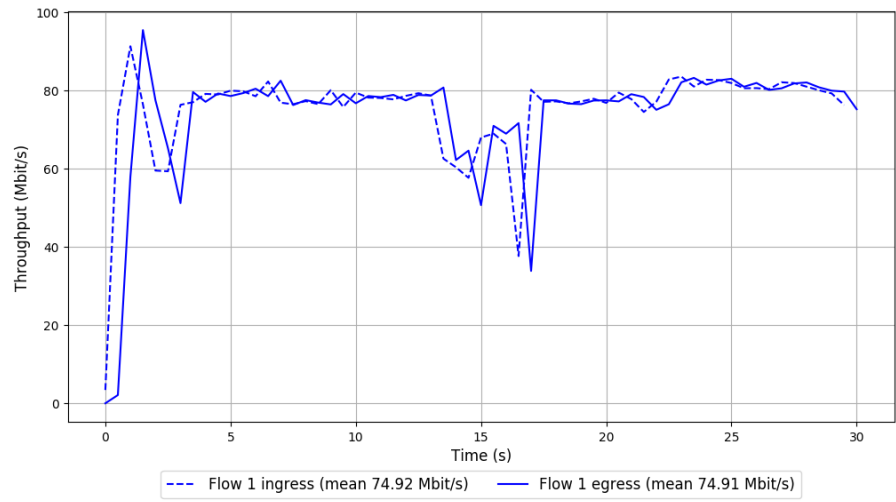


Run 2: Statistics of Copa

Start at: 2019-01-19 06:12:59  
End at: 2019-01-19 06:13:29  
Local clock offset: -0.823 ms  
Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-01-19 07:48:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 74.91 Mbit/s  
95th percentile per-packet one-way delay: 76.781 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 74.91 Mbit/s  
95th percentile per-packet one-way delay: 76.781 ms  
Loss rate: 0.27%

## Run 2: Report of Copa — Data Link

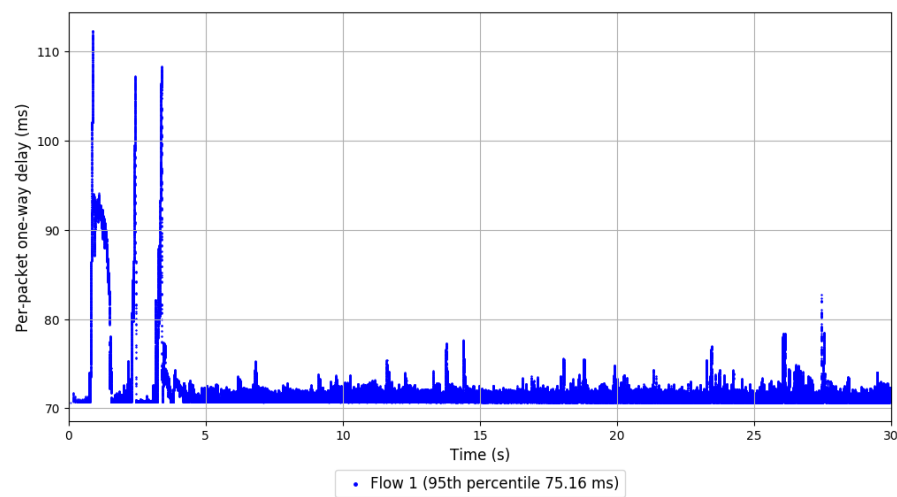
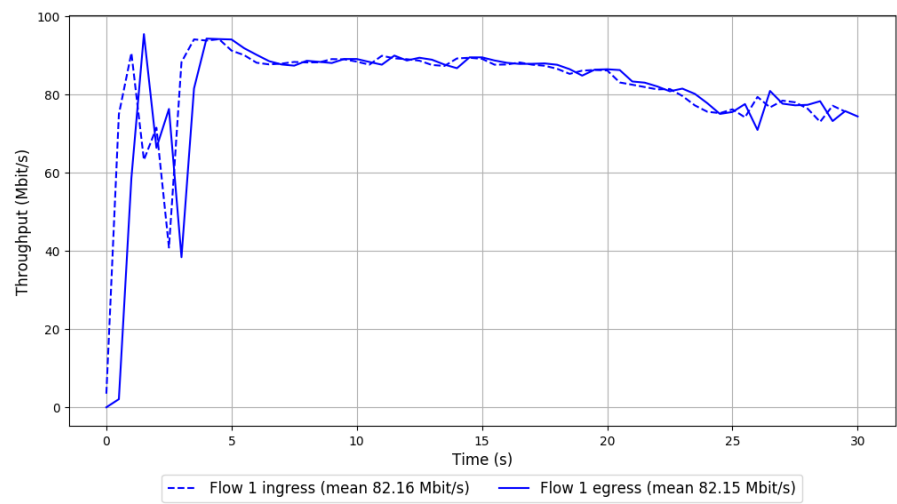


Run 3: Statistics of Copa

Start at: 2019-01-19 06:42:03  
End at: 2019-01-19 06:42:33  
Local clock offset: 2.14 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-01-19 07:49:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.15 Mbit/s  
95th percentile per-packet one-way delay: 75.161 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 82.15 Mbit/s  
95th percentile per-packet one-way delay: 75.161 ms  
Loss rate: 0.26%

Run 3: Report of Copa — Data Link



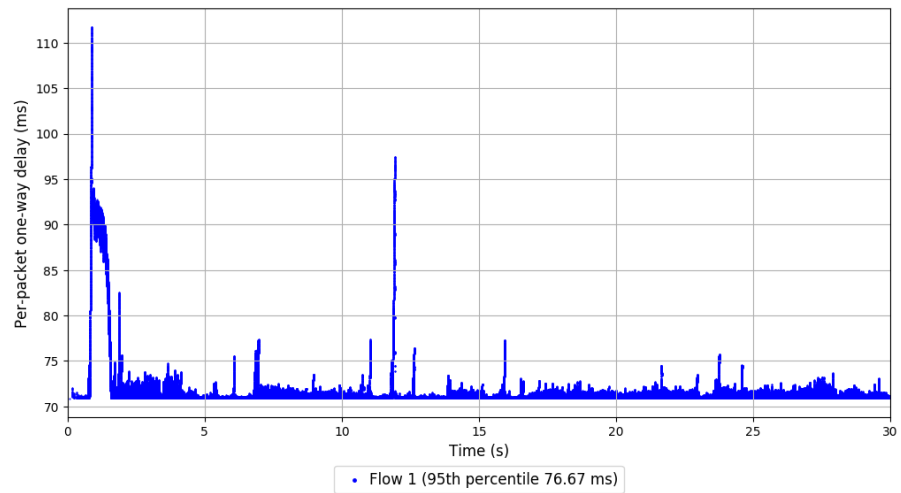
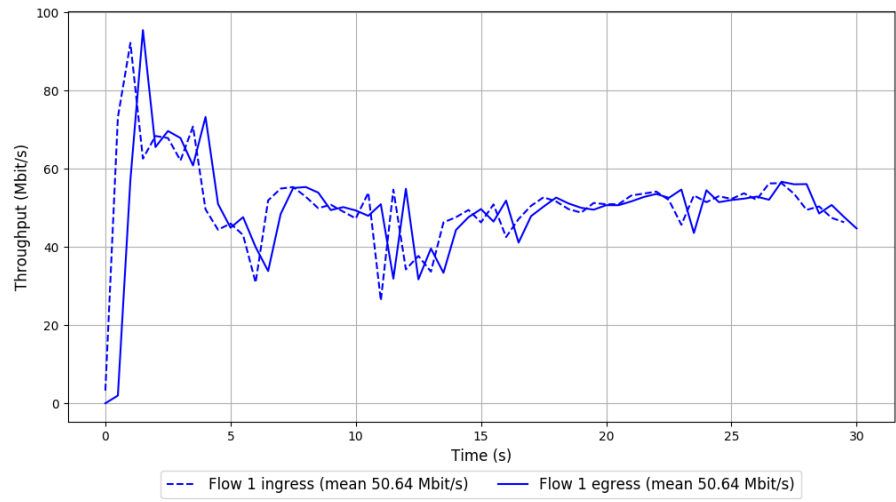


Run 4: Statistics of Copa

Start at: 2019-01-19 07:11:46  
End at: 2019-01-19 07:12:16  
Local clock offset: 1.895 ms  
Remote clock offset: -0.727 ms

# Below is generated by plot.py at 2019-01-19 07:49:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.64 Mbit/s  
95th percentile per-packet one-way delay: 76.675 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 50.64 Mbit/s  
95th percentile per-packet one-way delay: 76.675 ms  
Loss rate: 0.26%

#### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-19 07:39:47

End at: 2019-01-19 07:40:17

Local clock offset: 0.939 ms

Remote clock offset: -1.09 ms

# Below is generated by plot.py at 2019-01-19 07:49:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.03 Mbit/s

95th percentile per-packet one-way delay: 72.952 ms

Loss rate: 0.25%

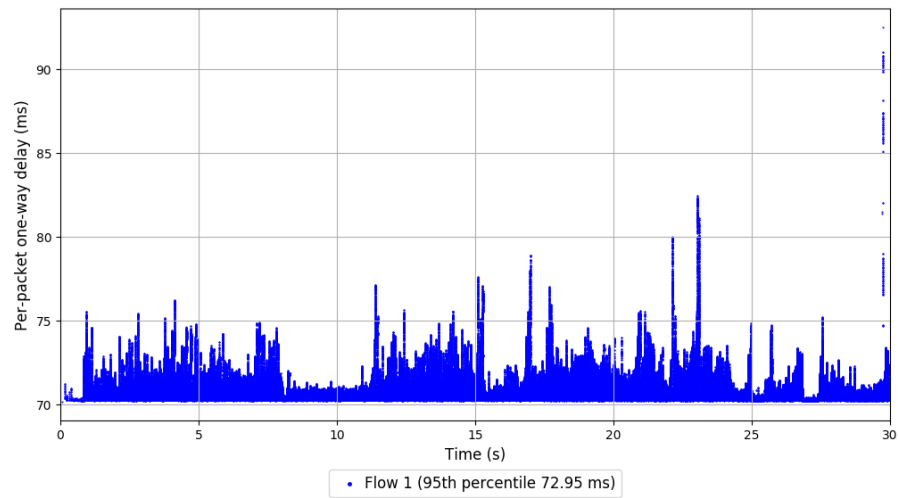
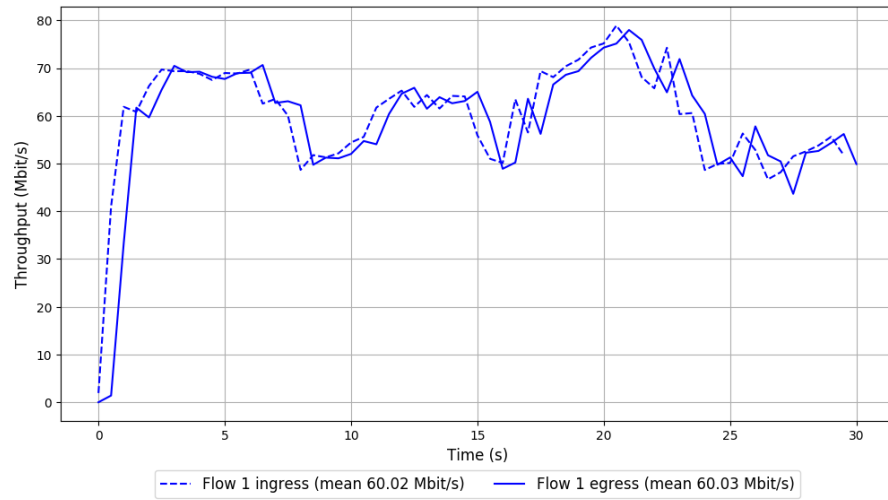
-- Flow 1:

Average throughput: 60.03 Mbit/s

95th percentile per-packet one-way delay: 72.952 ms

Loss rate: 0.25%

### Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-01-19 05:18:42

End at: 2019-01-19 05:19:12

Local clock offset: -2.031 ms

Remote clock offset: 3.18 ms

# Below is generated by plot.py at 2019-01-19 07:49:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 78.646 ms

Loss rate: 0.33%

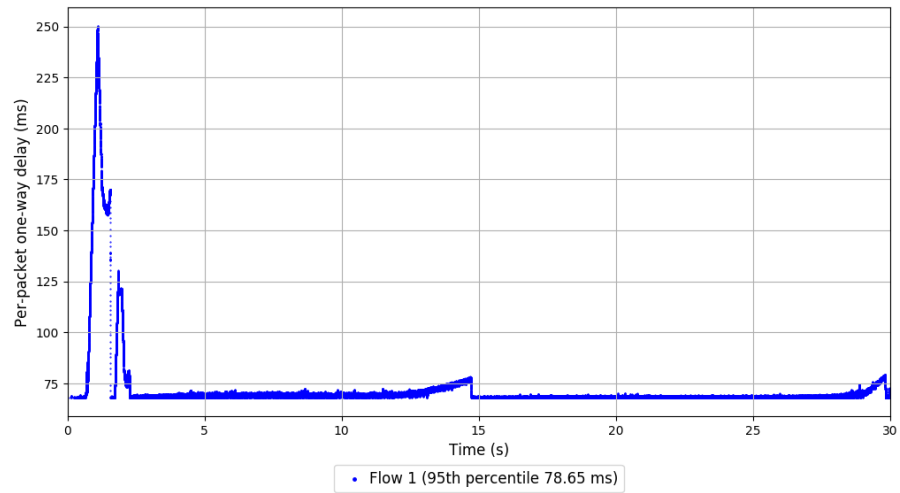
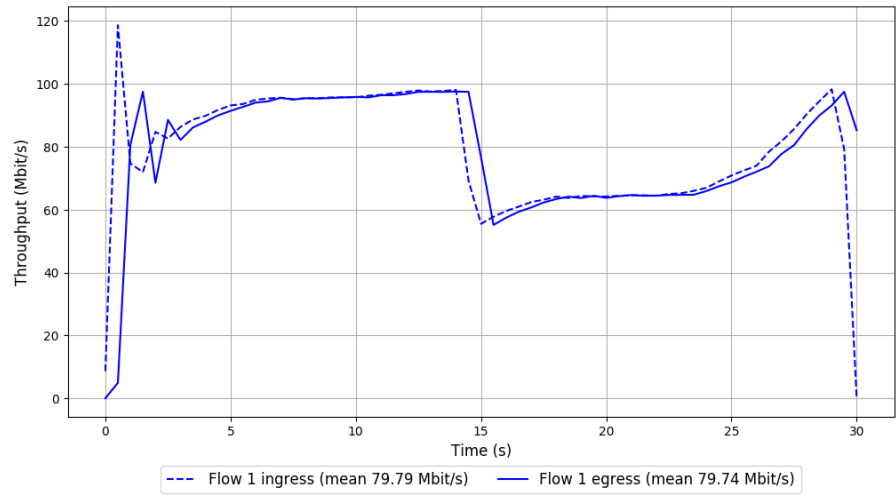
-- Flow 1:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 78.646 ms

Loss rate: 0.33%

### Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-01-19 05:49:52

End at: 2019-01-19 05:50:22

Local clock offset: 1.954 ms

Remote clock offset: 1.773 ms

# Below is generated by plot.py at 2019-01-19 07:49:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.52 Mbit/s

95th percentile per-packet one-way delay: 90.407 ms

Loss rate: 0.29%

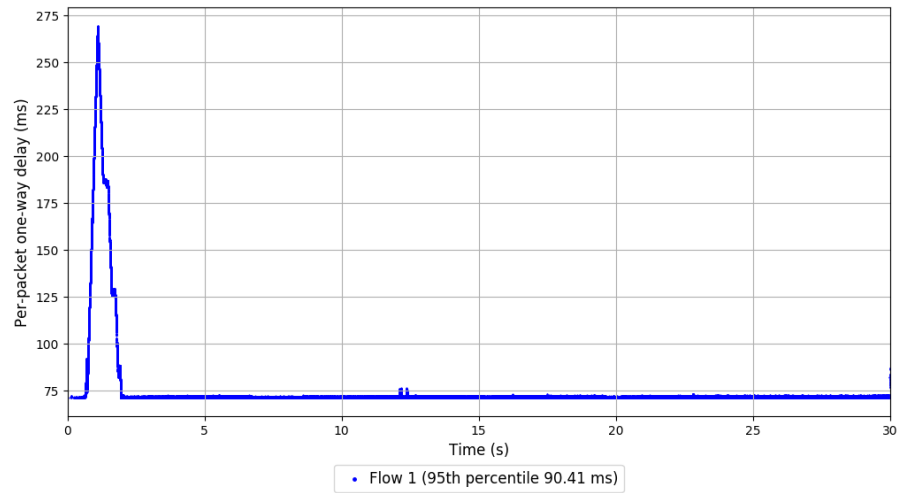
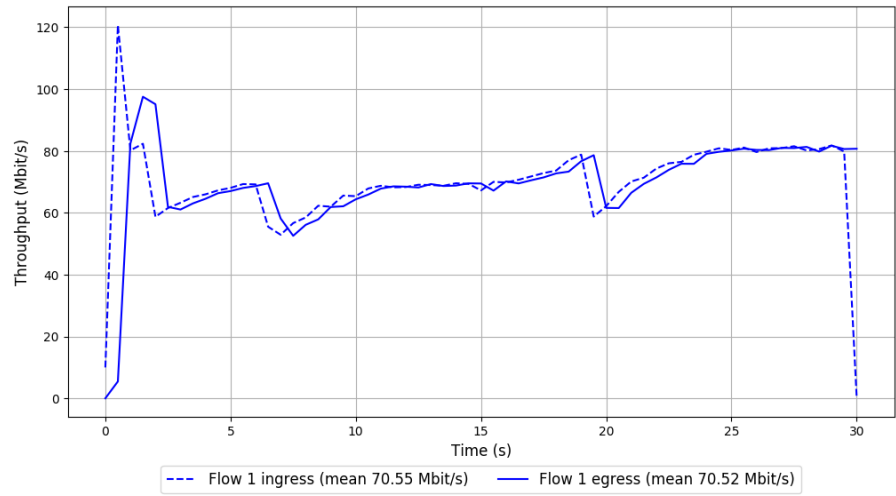
-- Flow 1:

Average throughput: 70.52 Mbit/s

95th percentile per-packet one-way delay: 90.407 ms

Loss rate: 0.29%

## Run 2: Report of TCP Cubic — Data Link



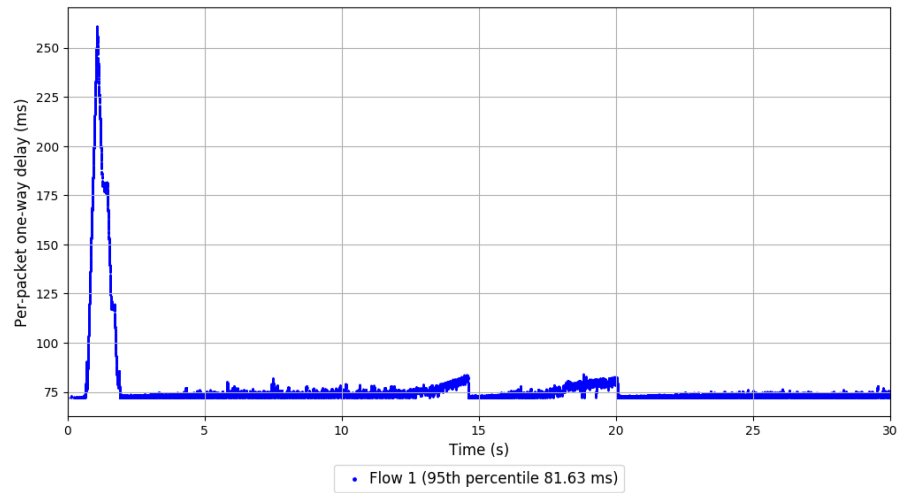
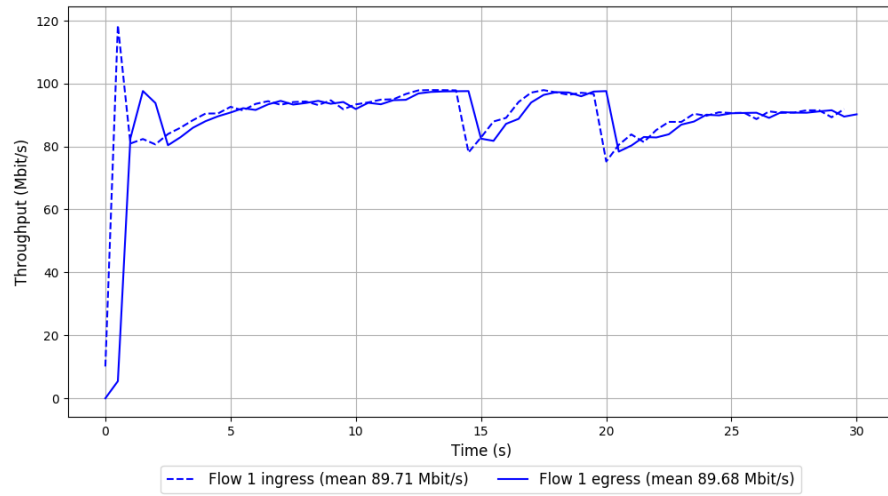


Run 3: Statistics of TCP Cubic

Start at: 2019-01-19 06:19:53  
End at: 2019-01-19 06:20:23  
Local clock offset: 2.342 ms  
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2019-01-19 07:49:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.68 Mbit/s  
95th percentile per-packet one-way delay: 81.626 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 89.68 Mbit/s  
95th percentile per-packet one-way delay: 81.626 ms  
Loss rate: 0.30%

### Run 3: Report of TCP Cubic — Data Link

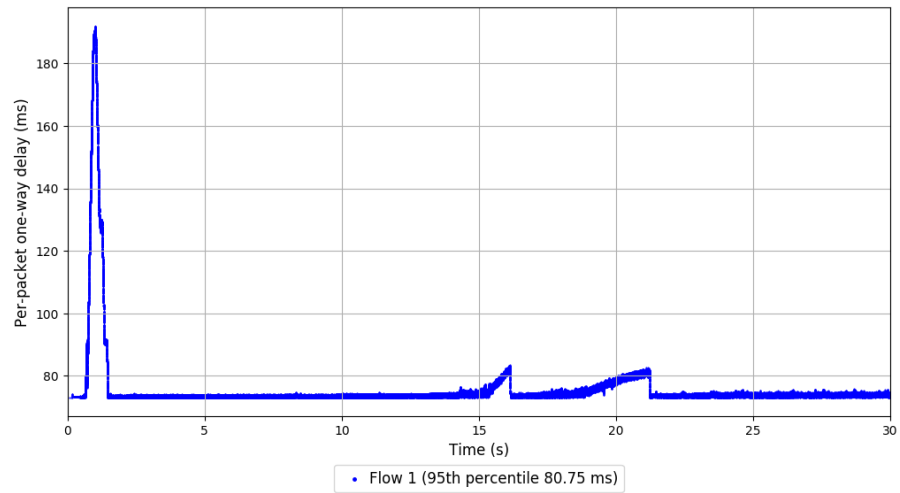
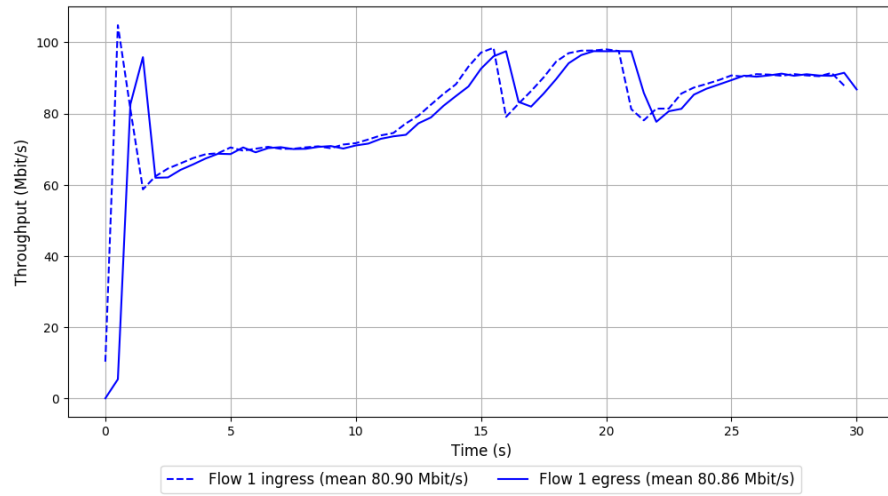


Run 4: Statistics of TCP Cubic

Start at: 2019-01-19 06:49:15  
End at: 2019-01-19 06:49:45  
Local clock offset: 4.057 ms  
Remote clock offset: -0.791 ms

# Below is generated by plot.py at 2019-01-19 07:49:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.86 Mbit/s  
95th percentile per-packet one-way delay: 80.752 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 80.86 Mbit/s  
95th percentile per-packet one-way delay: 80.752 ms  
Loss rate: 0.31%

#### Run 4: Report of TCP Cubic — Data Link

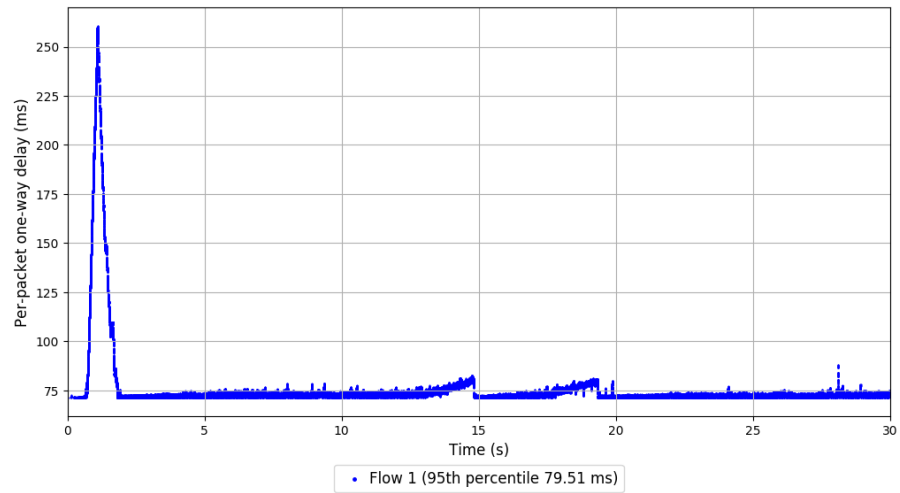
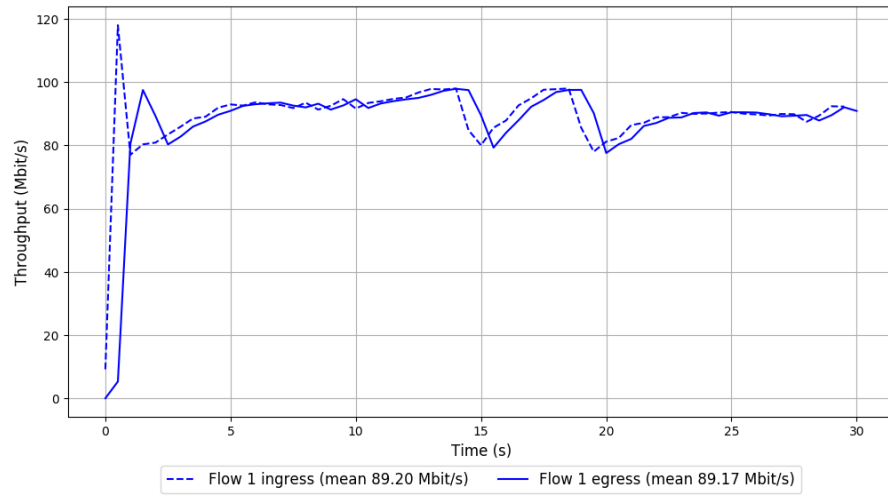


Run 5: Statistics of TCP Cubic

Start at: 2019-01-19 07:18:34  
End at: 2019-01-19 07:19:04  
Local clock offset: 2.827 ms  
Remote clock offset: -1.037 ms

# Below is generated by plot.py at 2019-01-19 07:49:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.17 Mbit/s  
95th percentile per-packet one-way delay: 79.506 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 89.17 Mbit/s  
95th percentile per-packet one-way delay: 79.506 ms  
Loss rate: 0.29%

### Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-01-19 05:32:44

End at: 2019-01-19 05:33:14

Local clock offset: 1.787 ms

Remote clock offset: 0.643 ms

# Below is generated by plot.py at 2019-01-19 07:50:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 80.875 ms

Loss rate: 0.39%

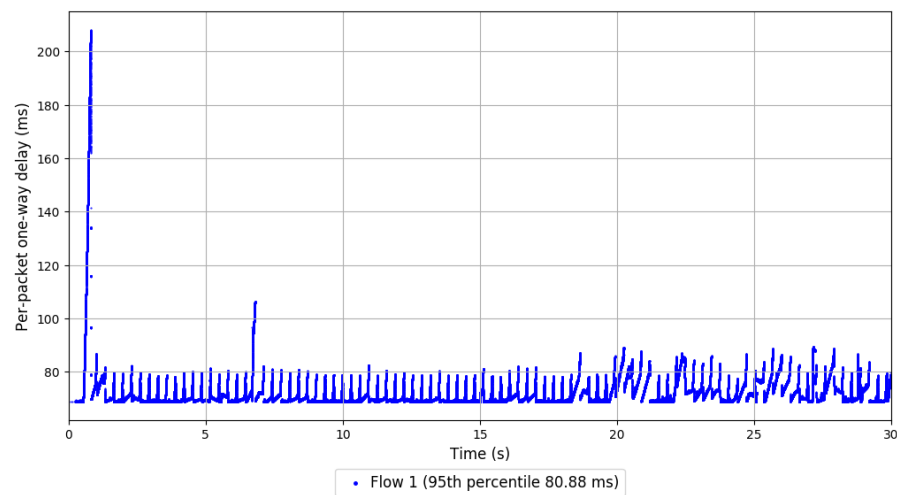
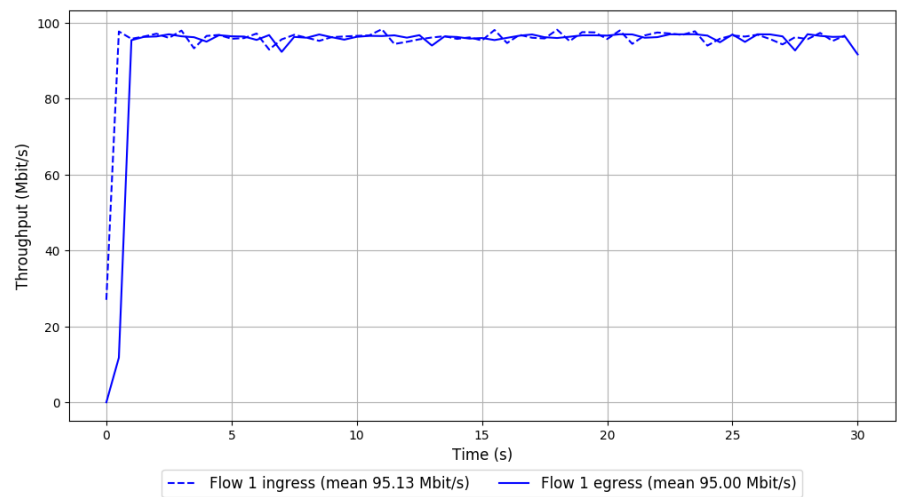
-- Flow 1:

Average throughput: 95.00 Mbit/s

95th percentile per-packet one-way delay: 80.875 ms

Loss rate: 0.39%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-01-19 06:03:26

End at: 2019-01-19 06:03:56

Local clock offset: 0.813 ms

Remote clock offset: 1.031 ms

# Below is generated by plot.py at 2019-01-19 07:50:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 78.112 ms

Loss rate: 0.39%

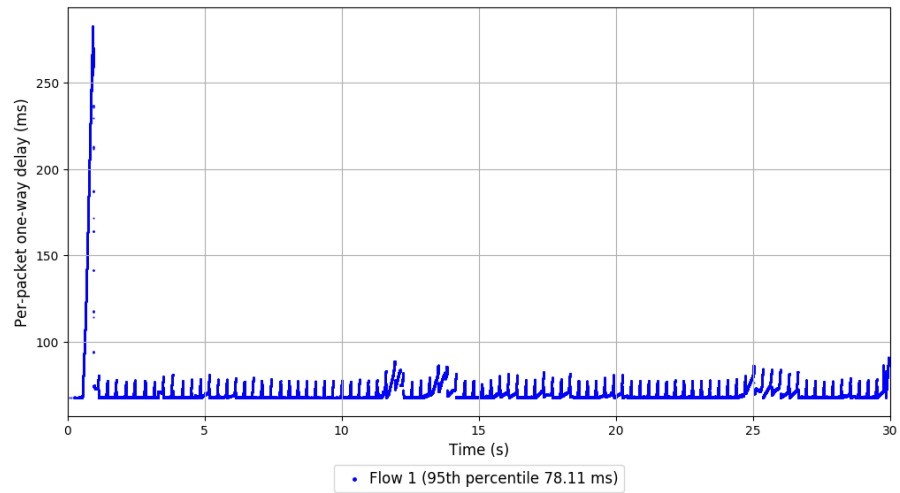
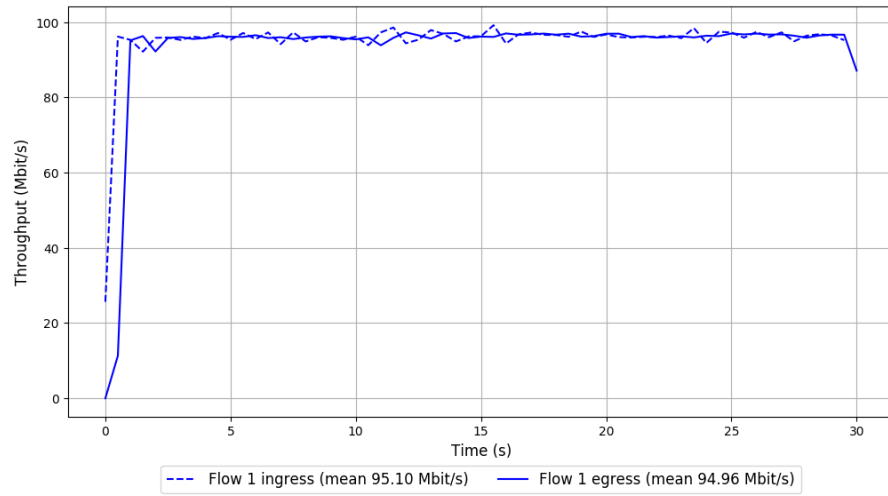
-- Flow 1:

Average throughput: 94.96 Mbit/s

95th percentile per-packet one-way delay: 78.112 ms

Loss rate: 0.39%

## Run 2: Report of FillP — Data Link

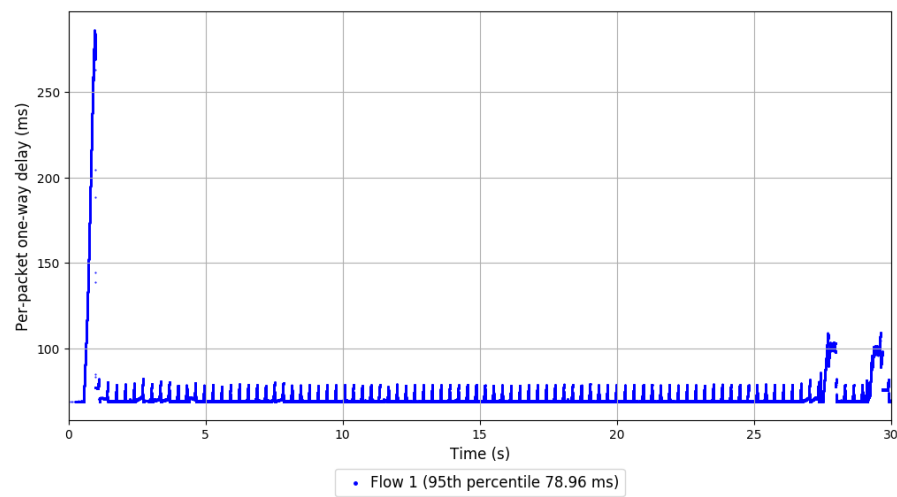
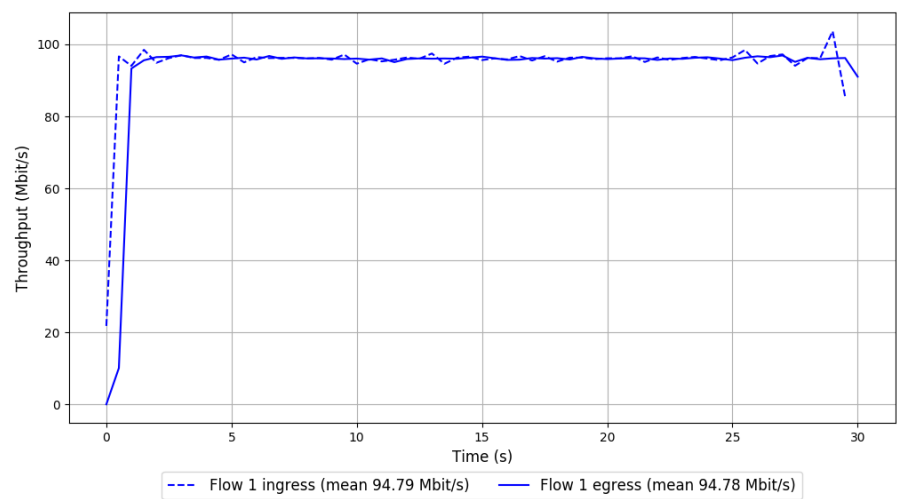


Run 3: Statistics of FillP

Start at: 2019-01-19 06:32:19  
End at: 2019-01-19 06:32:49  
Local clock offset: 0.459 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-01-19 07:50:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.78 Mbit/s  
95th percentile per-packet one-way delay: 78.961 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 94.78 Mbit/s  
95th percentile per-packet one-way delay: 78.961 ms  
Loss rate: 0.27%

Run 3: Report of FillP — Data Link

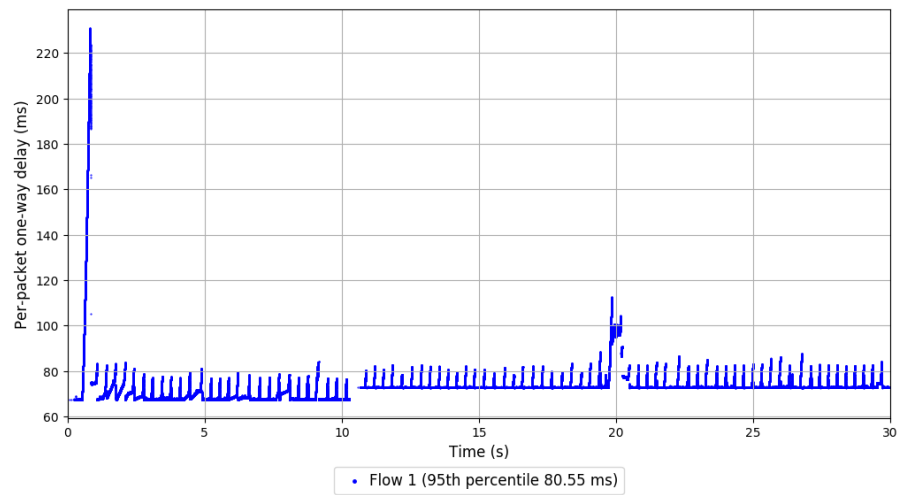
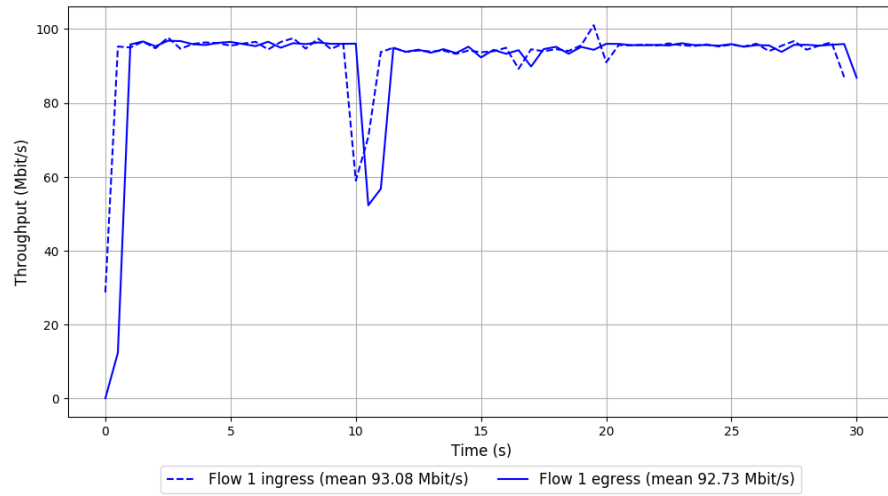


Run 4: Statistics of FillP

Start at: 2019-01-19 07:02:48  
End at: 2019-01-19 07:03:18  
Local clock offset: 1.412 ms  
Remote clock offset: -2.897 ms

# Below is generated by plot.py at 2019-01-19 07:50:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.73 Mbit/s  
95th percentile per-packet one-way delay: 80.550 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 92.73 Mbit/s  
95th percentile per-packet one-way delay: 80.550 ms  
Loss rate: 0.62%

#### Run 4: Report of FillP — Data Link

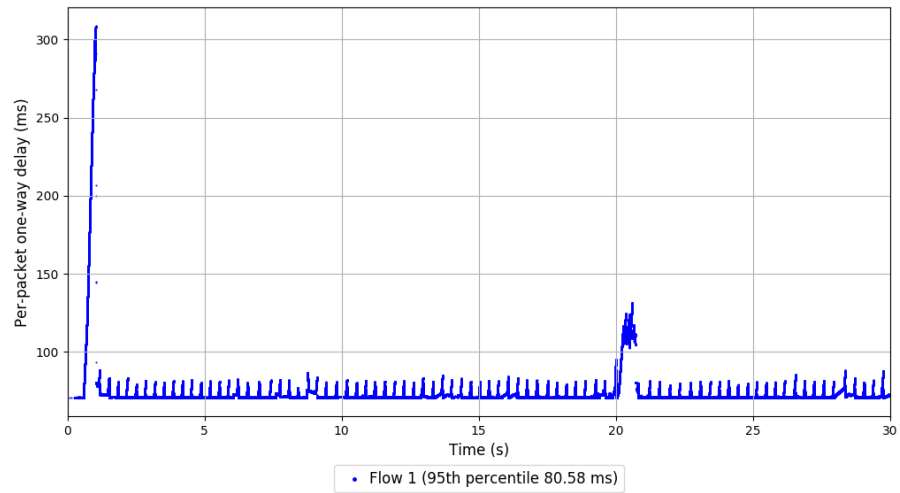
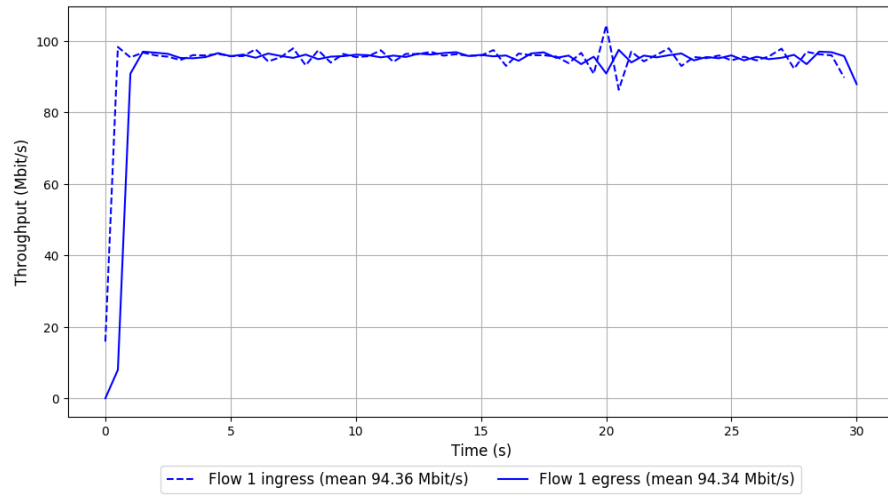


Run 5: Statistics of FillP

Start at: 2019-01-19 07:30:53  
End at: 2019-01-19 07:31:23  
Local clock offset: 1.588 ms  
Remote clock offset: -0.625 ms

# Below is generated by plot.py at 2019-01-19 07:50:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.34 Mbit/s  
95th percentile per-packet one-way delay: 80.582 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 94.34 Mbit/s  
95th percentile per-packet one-way delay: 80.582 ms  
Loss rate: 0.28%

### Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-19 05:46:51

End at: 2019-01-19 05:47:21

Local clock offset: 0.843 ms

Remote clock offset: 0.644 ms

# Below is generated by plot.py at 2019-01-19 07:50:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 79.055 ms

Loss rate: 0.28%

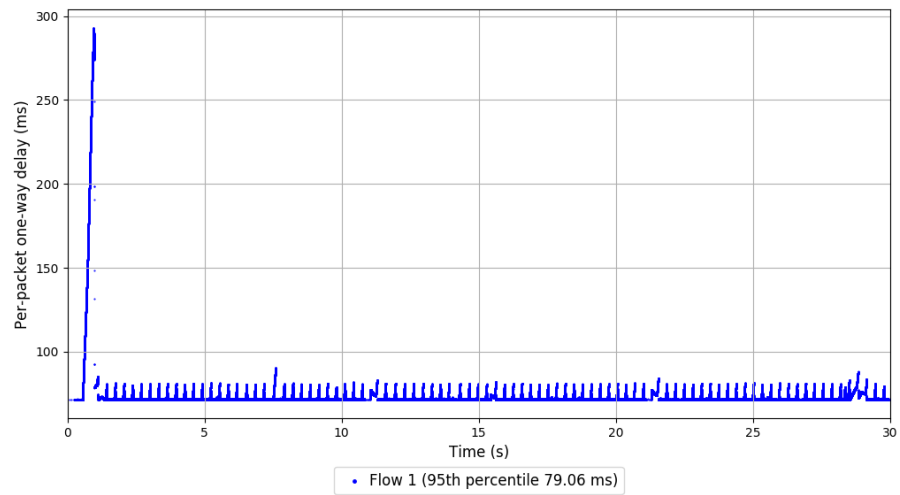
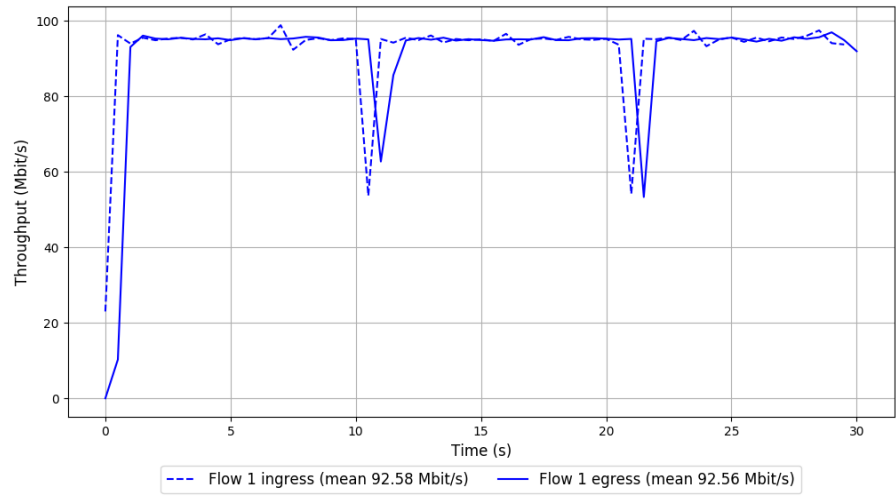
-- Flow 1:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 79.055 ms

Loss rate: 0.28%

## Run 1: Report of FillP-Sheep — Data Link

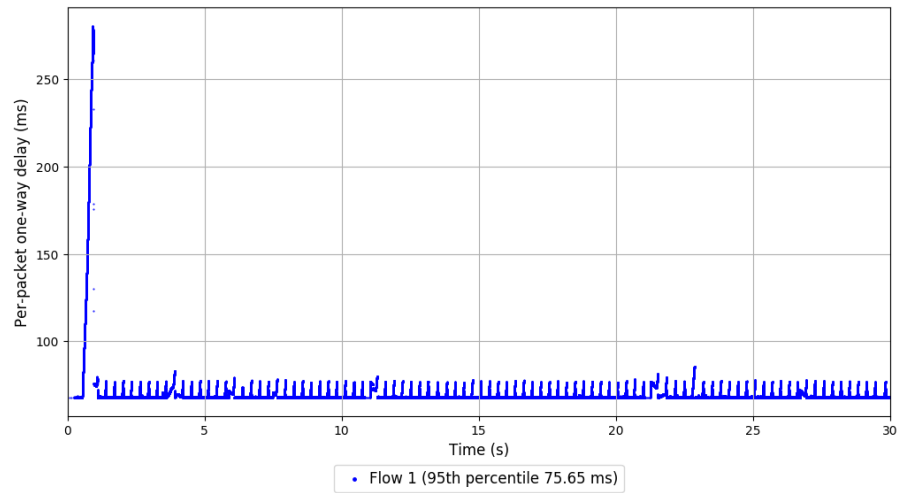
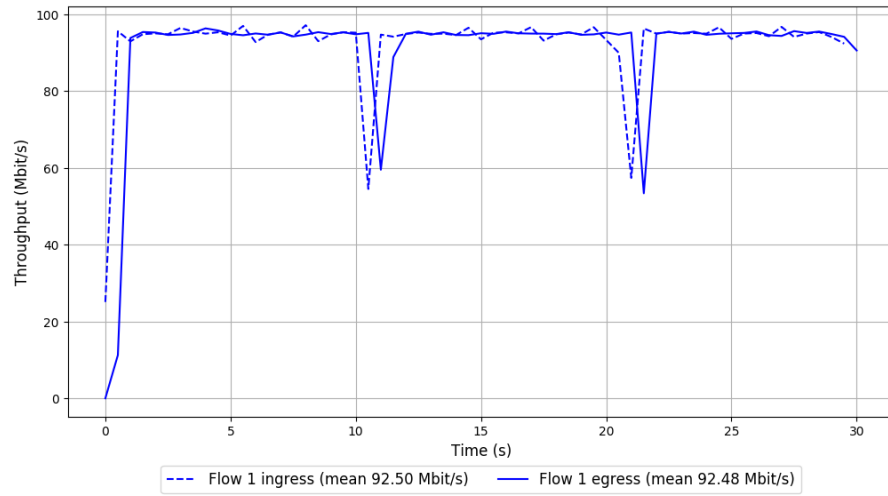


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-19 06:17:05  
End at: 2019-01-19 06:17:35  
Local clock offset: -1.203 ms  
Remote clock offset: 0.796 ms

# Below is generated by plot.py at 2019-01-19 07:51:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.48 Mbit/s  
95th percentile per-packet one-way delay: 75.649 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 92.48 Mbit/s  
95th percentile per-packet one-way delay: 75.649 ms  
Loss rate: 0.27%

## Run 2: Report of FillP-Sheep — Data Link

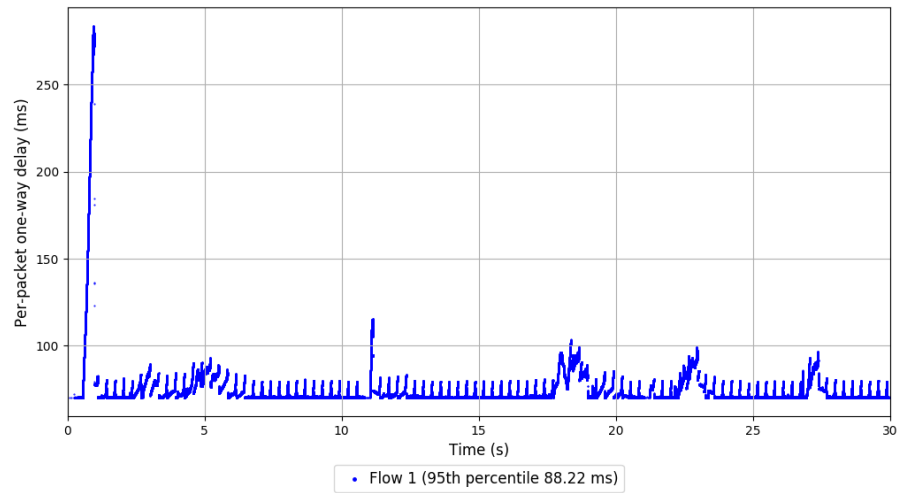
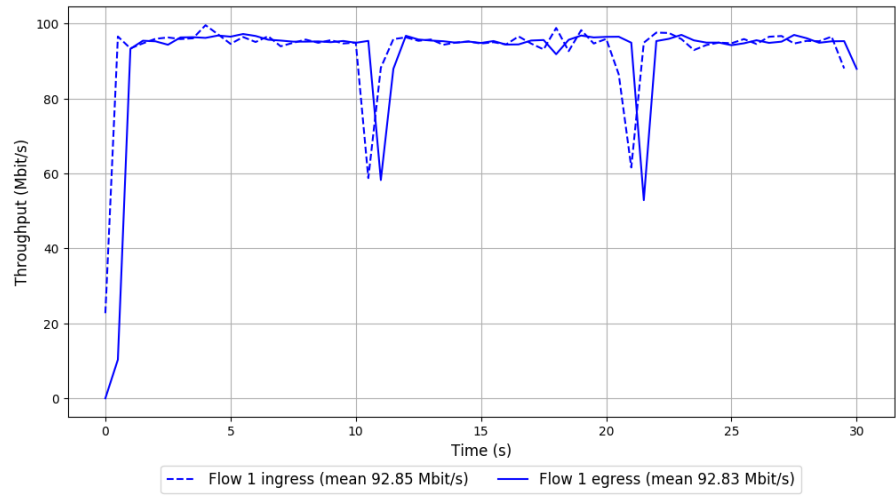


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-19 06:46:20  
End at: 2019-01-19 06:46:50  
Local clock offset: 2.61 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-01-19 07:51:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.83 Mbit/s  
95th percentile per-packet one-way delay: 88.218 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 92.83 Mbit/s  
95th percentile per-packet one-way delay: 88.218 ms  
Loss rate: 0.28%

### Run 3: Report of FillP-Sheep — Data Link

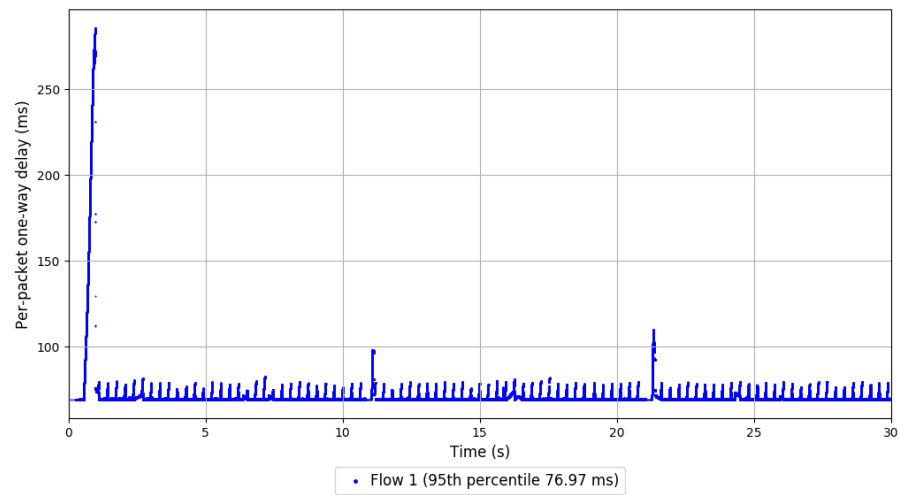
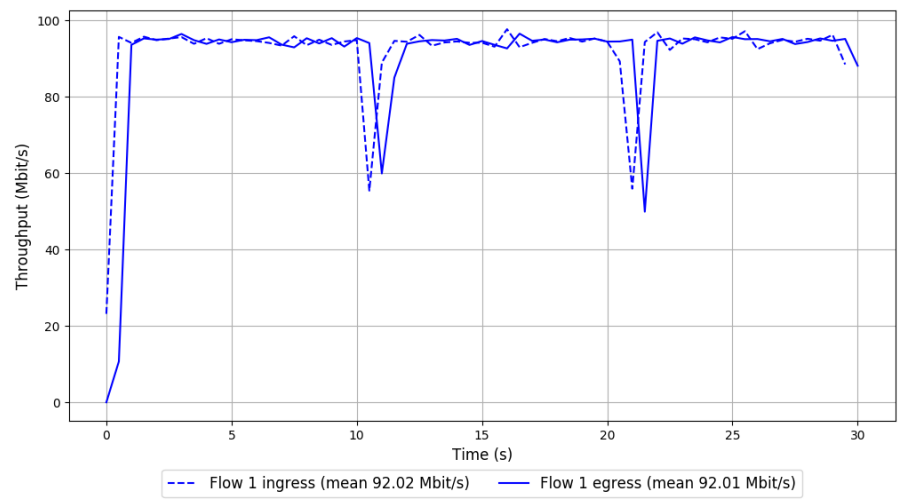


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-19 07:16:03  
End at: 2019-01-19 07:16:33  
Local clock offset: 0.627 ms  
Remote clock offset: -1.273 ms

# Below is generated by plot.py at 2019-01-19 07:51:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.01 Mbit/s  
95th percentile per-packet one-way delay: 76.973 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 92.01 Mbit/s  
95th percentile per-packet one-way delay: 76.973 ms  
Loss rate: 0.27%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-19 07:43:23

End at: 2019-01-19 07:43:53

Local clock offset: 1.525 ms

Remote clock offset: -1.17 ms

# Below is generated by plot.py at 2019-01-19 07:51:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 76.538 ms

Loss rate: 0.25%

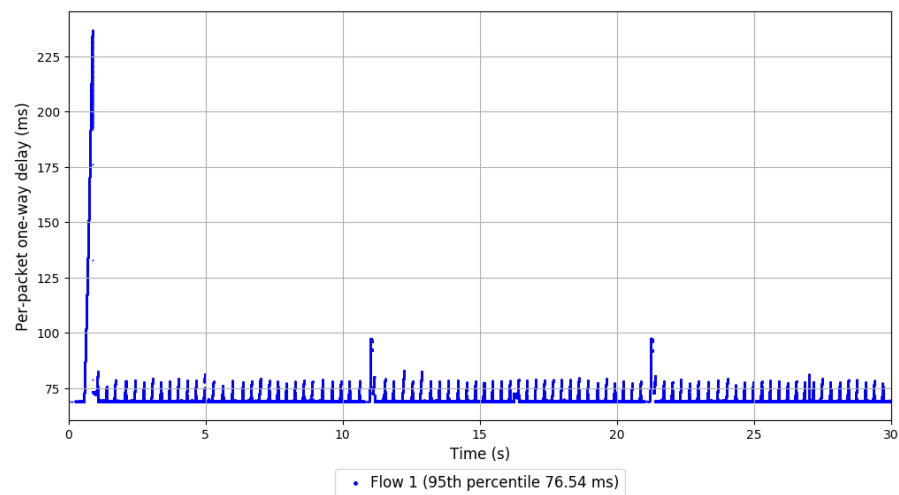
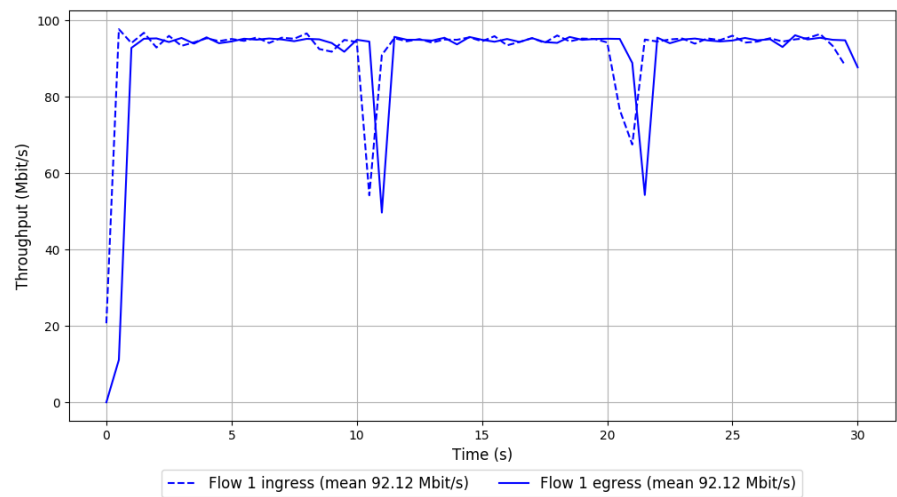
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 76.538 ms

Loss rate: 0.25%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-01-19 05:23:55

End at: 2019-01-19 05:24:25

Local clock offset: -0.407 ms

Remote clock offset: 3.238 ms

# Below is generated by plot.py at 2019-01-19 07:51:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 74.947 ms

Loss rate: 0.29%

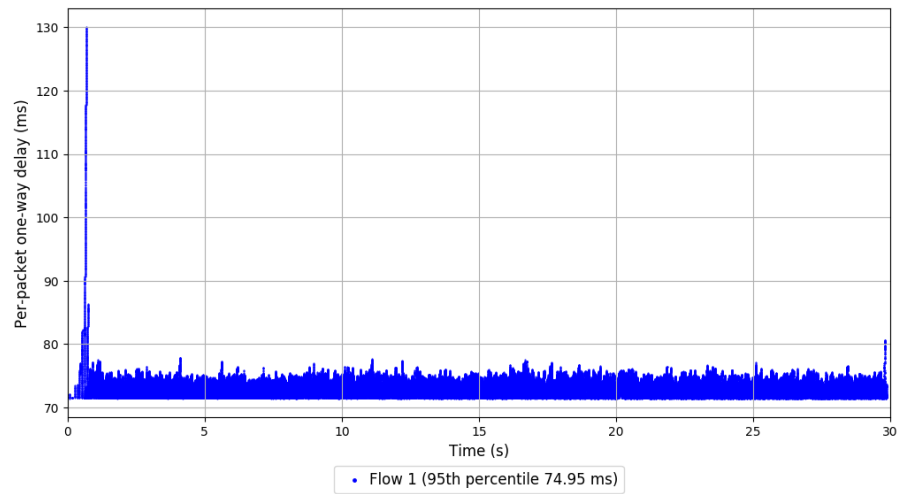
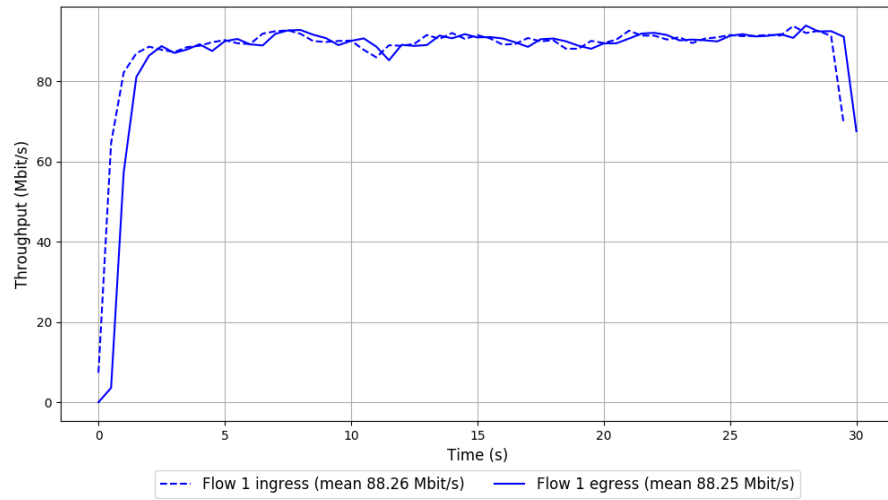
-- Flow 1:

Average throughput: 88.25 Mbit/s

95th percentile per-packet one-way delay: 74.947 ms

Loss rate: 0.29%

## Run 1: Report of Indigo — Data Link

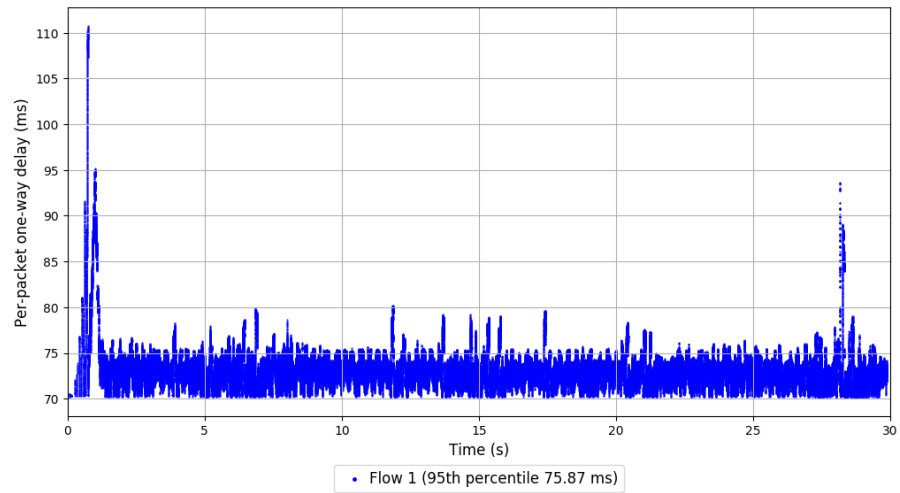
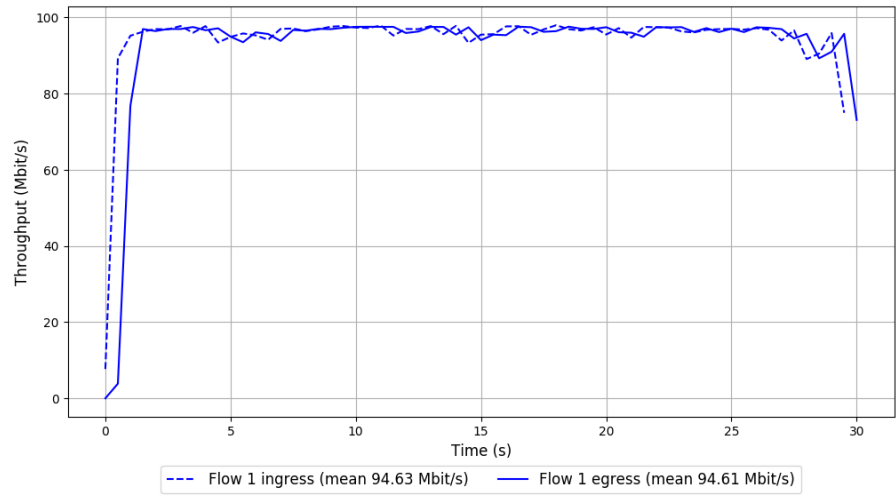


Run 2: Statistics of Indigo

Start at: 2019-01-19 05:54:45  
End at: 2019-01-19 05:55:15  
Local clock offset: -0.62 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-01-19 07:51:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.61 Mbit/s  
95th percentile per-packet one-way delay: 75.866 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 94.61 Mbit/s  
95th percentile per-packet one-way delay: 75.866 ms  
Loss rate: 0.28%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-19 06:23:51

End at: 2019-01-19 06:24:21

Local clock offset: 0.53 ms

Remote clock offset: 0.163 ms

# Below is generated by plot.py at 2019-01-19 07:51:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 73.888 ms

Loss rate: 0.27%

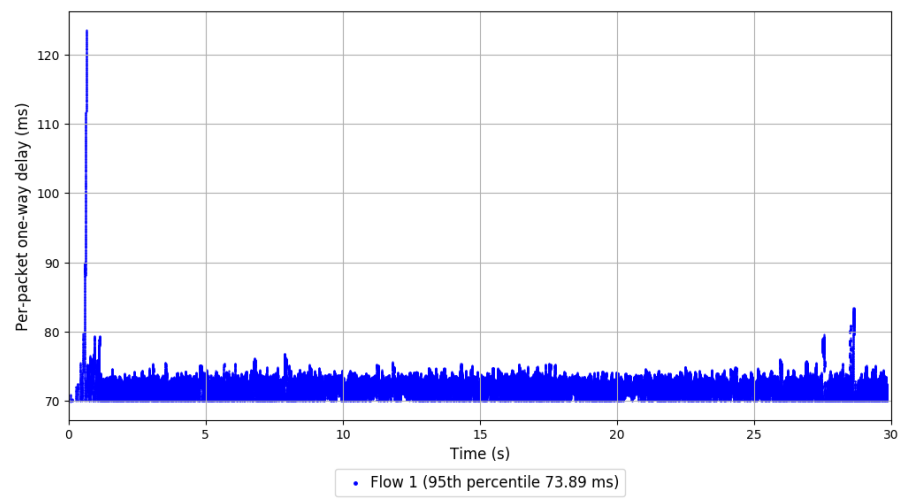
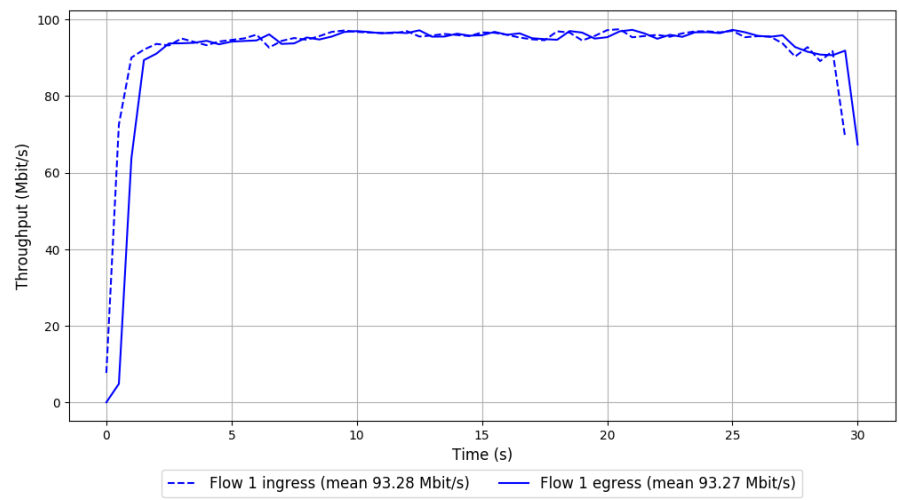
-- Flow 1:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 73.888 ms

Loss rate: 0.27%

Run 3: Report of Indigo — Data Link



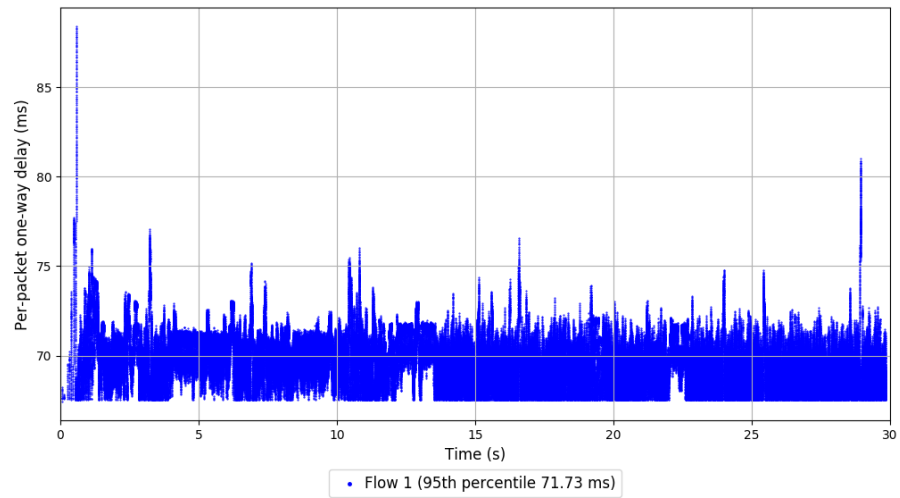
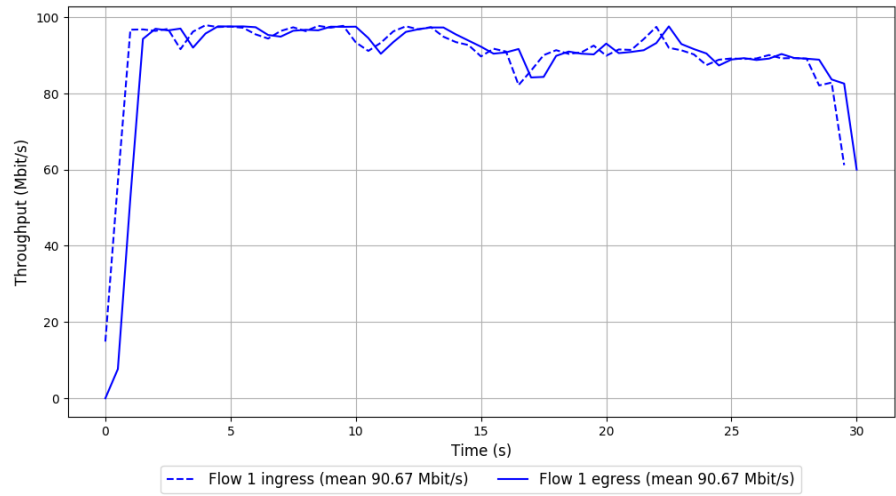


Run 4: Statistics of Indigo

Start at: 2019-01-19 06:53:41  
End at: 2019-01-19 06:54:11  
Local clock offset: 1.085 ms  
Remote clock offset: -3.115 ms

# Below is generated by plot.py at 2019-01-19 07:51:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.67 Mbit/s  
95th percentile per-packet one-way delay: 71.733 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 90.67 Mbit/s  
95th percentile per-packet one-way delay: 71.733 ms  
Loss rate: 0.23%

#### Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-19 07:22:37

End at: 2019-01-19 07:23:07

Local clock offset: 0.259 ms

Remote clock offset: -1.5 ms

# Below is generated by plot.py at 2019-01-19 07:52:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.48 Mbit/s

95th percentile per-packet one-way delay: 74.268 ms

Loss rate: 0.28%

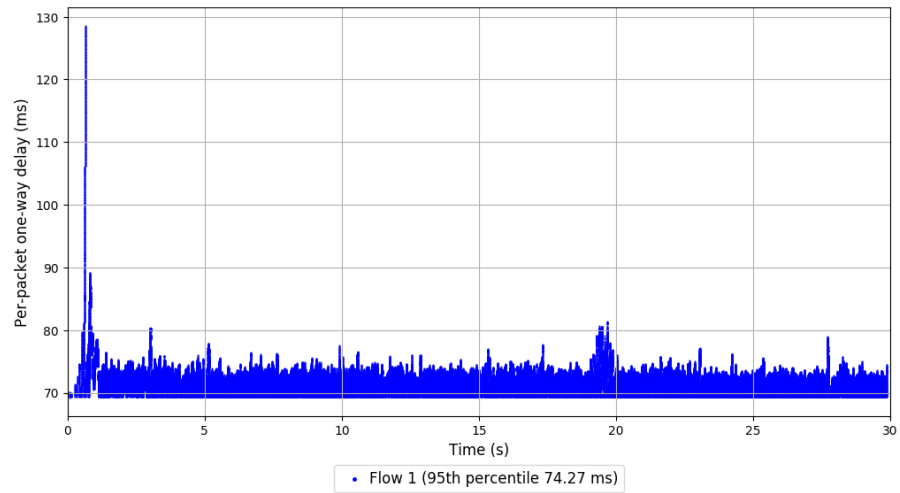
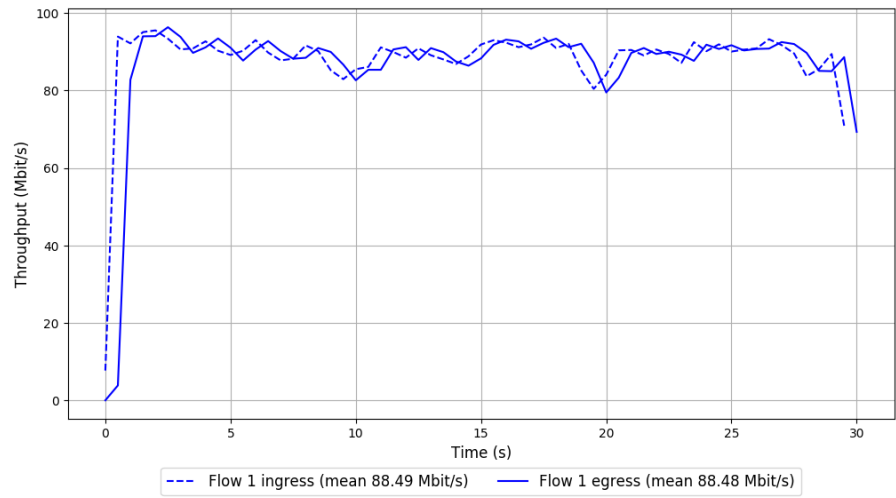
-- Flow 1:

Average throughput: 88.48 Mbit/s

95th percentile per-packet one-way delay: 74.268 ms

Loss rate: 0.28%

### Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-19 05:48:14

End at: 2019-01-19 05:48:44

Local clock offset: 0.084 ms

Remote clock offset: 1.655 ms

# Below is generated by plot.py at 2019-01-19 07:52:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 75.173 ms

Loss rate: 0.29%

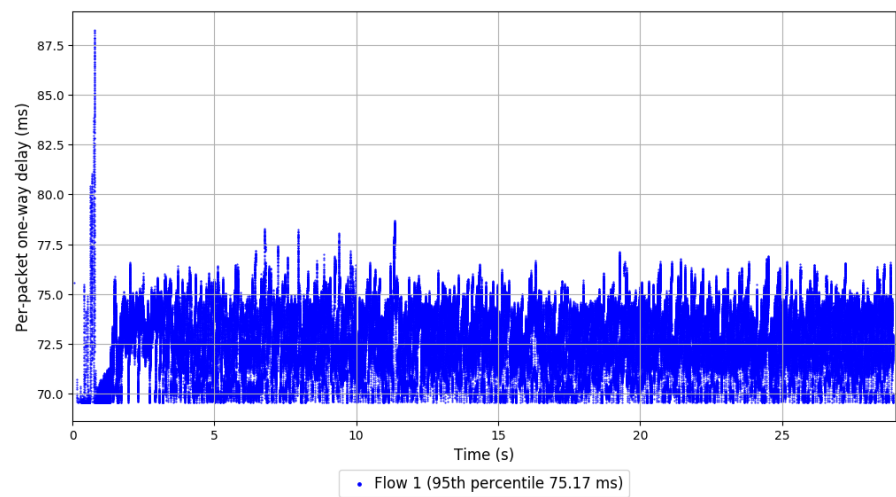
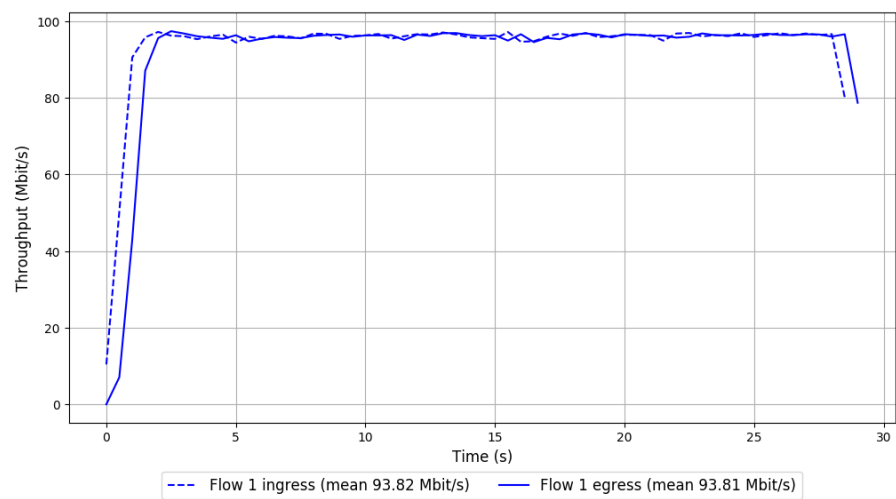
-- Flow 1:

Average throughput: 93.81 Mbit/s

95th percentile per-packet one-way delay: 75.173 ms

Loss rate: 0.29%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:18:27

End at: 2019-01-19 06:18:57

Local clock offset: 0.062 ms

Remote clock offset: 0.22 ms

# Below is generated by plot.py at 2019-01-19 07:52:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 75.295 ms

Loss rate: 0.28%

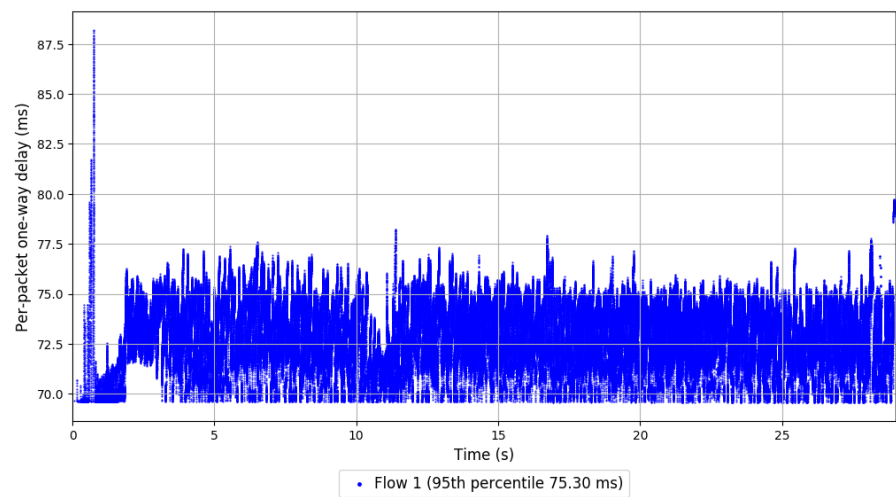
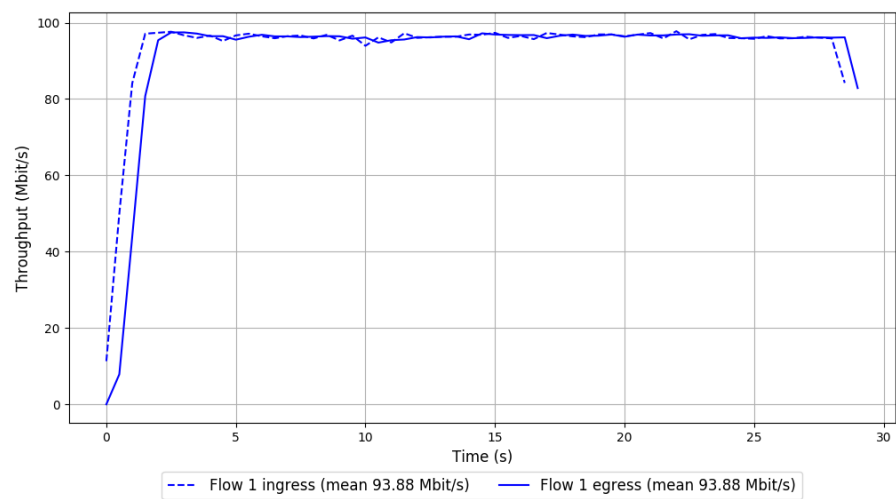
-- Flow 1:

Average throughput: 93.88 Mbit/s

95th percentile per-packet one-way delay: 75.295 ms

Loss rate: 0.28%

Run 2: Report of Indigo-MusesC3 — Data Link



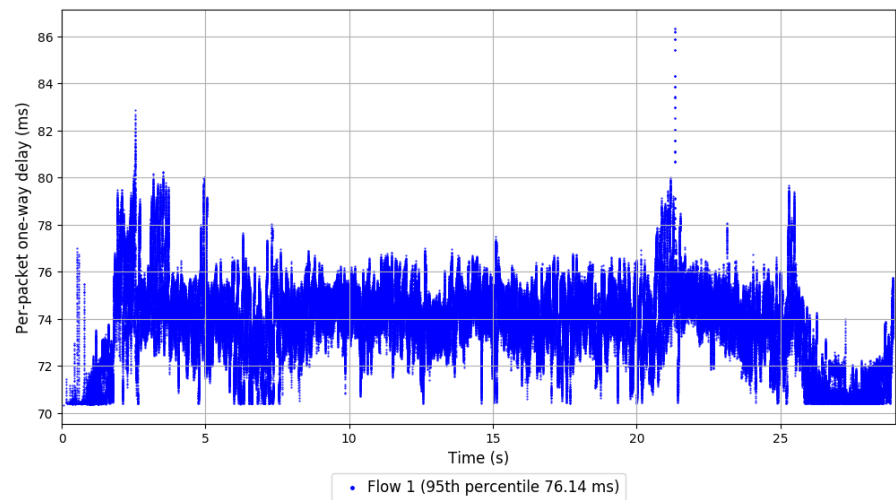
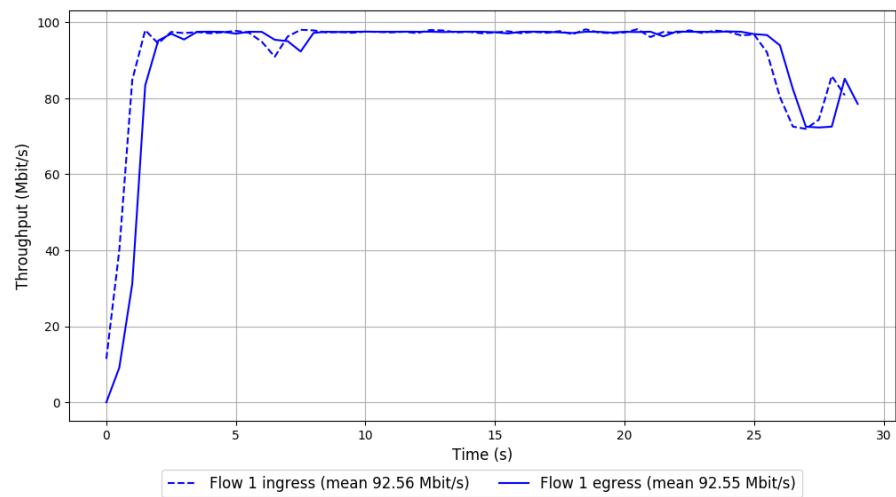


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:47:41  
End at: 2019-01-19 06:48:11  
Local clock offset: 1.98 ms  
Remote clock offset: -0.703 ms

# Below is generated by plot.py at 2019-01-19 07:52:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 92.55 Mbit/s  
95th percentile per-packet one-way delay: 76.145 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 92.55 Mbit/s  
95th percentile per-packet one-way delay: 76.145 ms  
Loss rate: 0.28%

Run 3: Report of Indigo-MusesC3 — Data Link

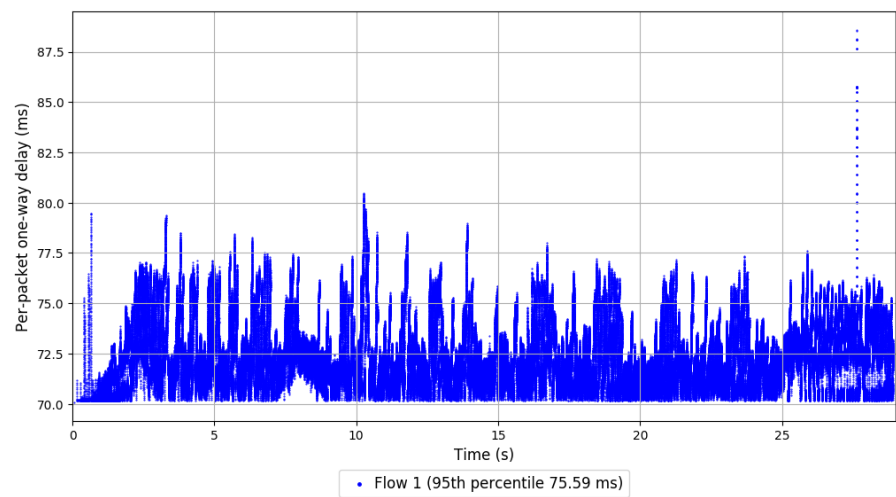
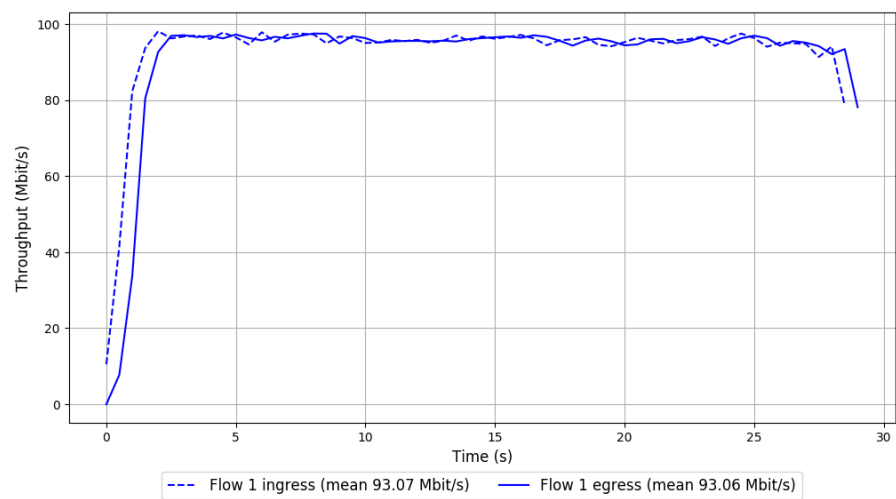


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-19 07:17:16  
End at: 2019-01-19 07:17:46  
Local clock offset: 3.383 ms  
Remote clock offset: -1.562 ms

# Below is generated by plot.py at 2019-01-19 07:52:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 93.06 Mbit/s  
95th percentile per-packet one-way delay: 75.589 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 93.06 Mbit/s  
95th percentile per-packet one-way delay: 75.589 ms  
Loss rate: 0.27%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-19 07:44:39

End at: 2019-01-19 07:45:09

Local clock offset: -0.326 ms

Remote clock offset: -5.94 ms

# Below is generated by plot.py at 2019-01-19 07:52:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 79.448 ms

Loss rate: 0.28%

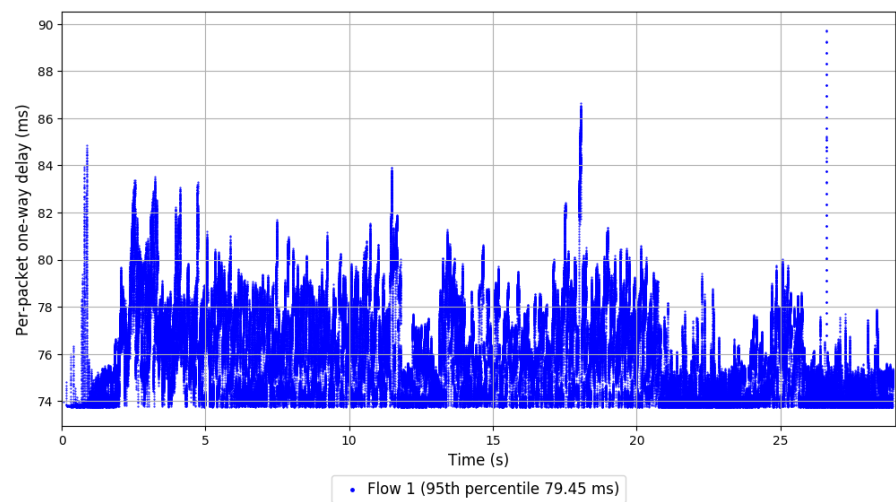
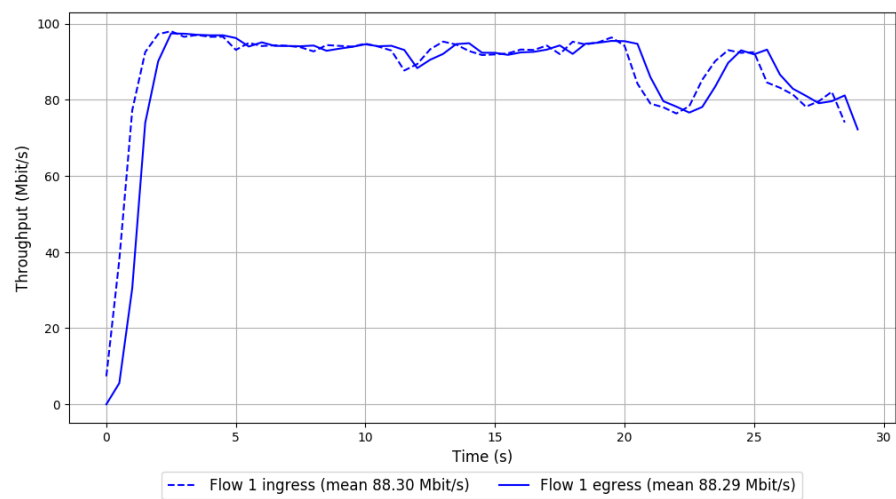
-- Flow 1:

Average throughput: 88.29 Mbit/s

95th percentile per-packet one-way delay: 79.448 ms

Loss rate: 0.28%

Run 5: Report of Indigo-MusesC3 — Data Link

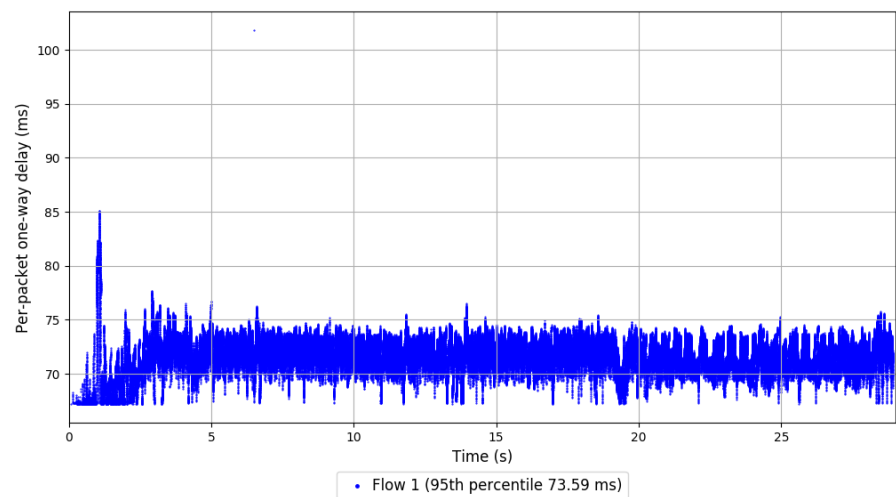
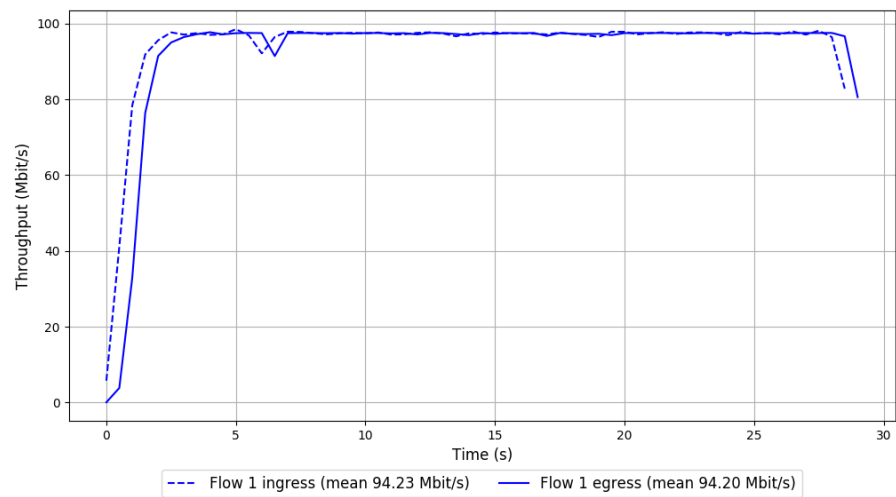


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-19 05:39:32  
End at: 2019-01-19 05:40:02  
Local clock offset: -0.842 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-01-19 07:52:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.20 Mbit/s  
95th percentile per-packet one-way delay: 73.590 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 94.20 Mbit/s  
95th percentile per-packet one-way delay: 73.590 ms  
Loss rate: 0.30%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:09:51

End at: 2019-01-19 06:10:21

Local clock offset: 0.813 ms

Remote clock offset: 0.543 ms

# Below is generated by plot.py at 2019-01-19 07:53:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.03 Mbit/s

95th percentile per-packet one-way delay: 92.639 ms

Loss rate: 0.32%

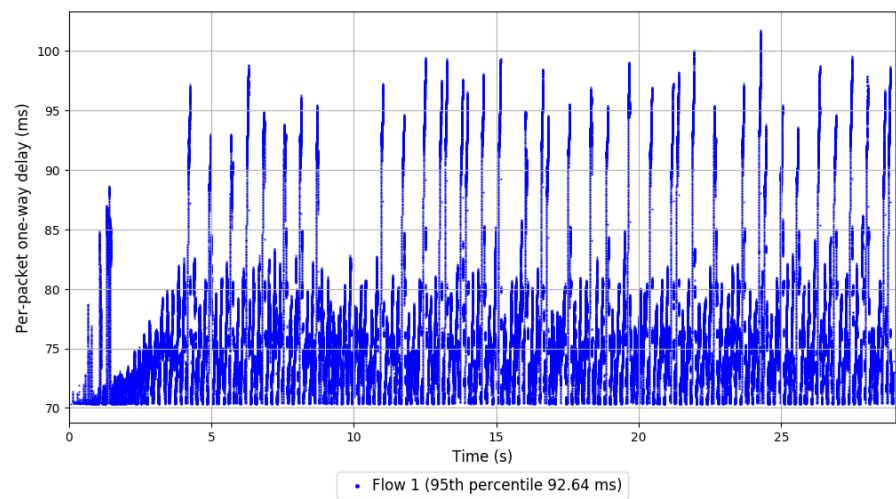
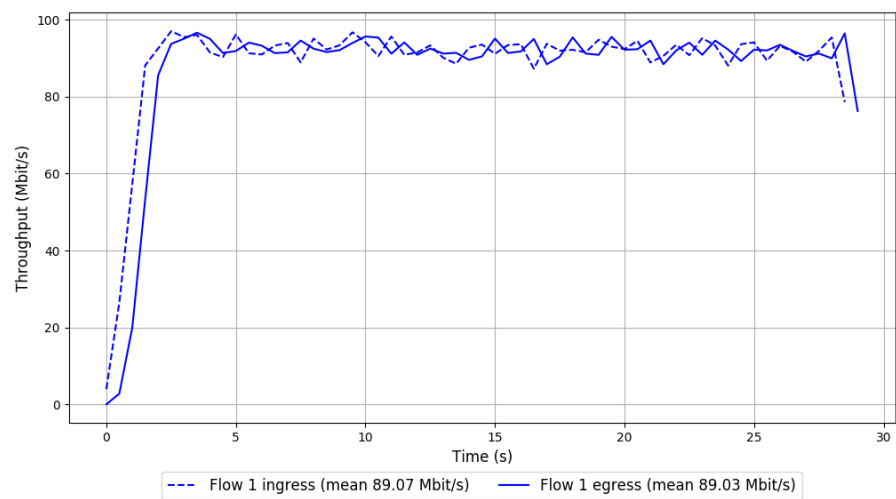
-- Flow 1:

Average throughput: 89.03 Mbit/s

95th percentile per-packet one-way delay: 92.639 ms

Loss rate: 0.32%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:38:57

End at: 2019-01-19 06:39:27

Local clock offset: 2.93 ms

Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2019-01-19 07:53:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.43 Mbit/s

95th percentile per-packet one-way delay: 92.975 ms

Loss rate: 0.31%

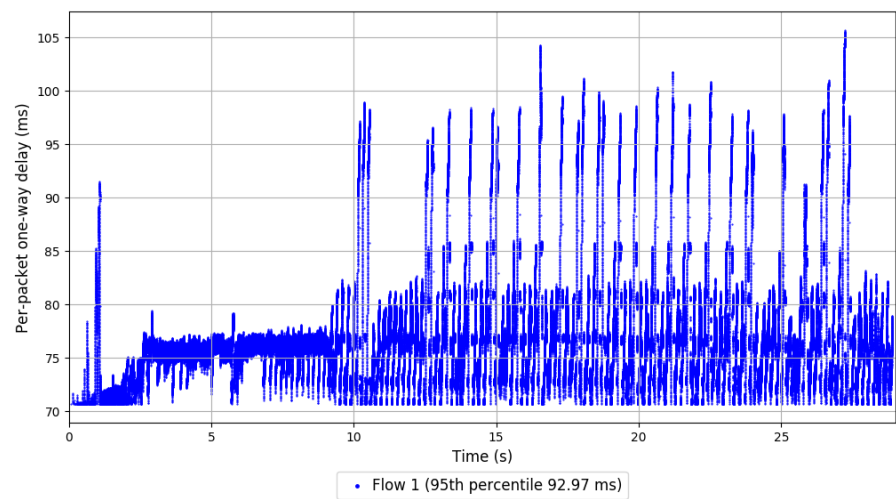
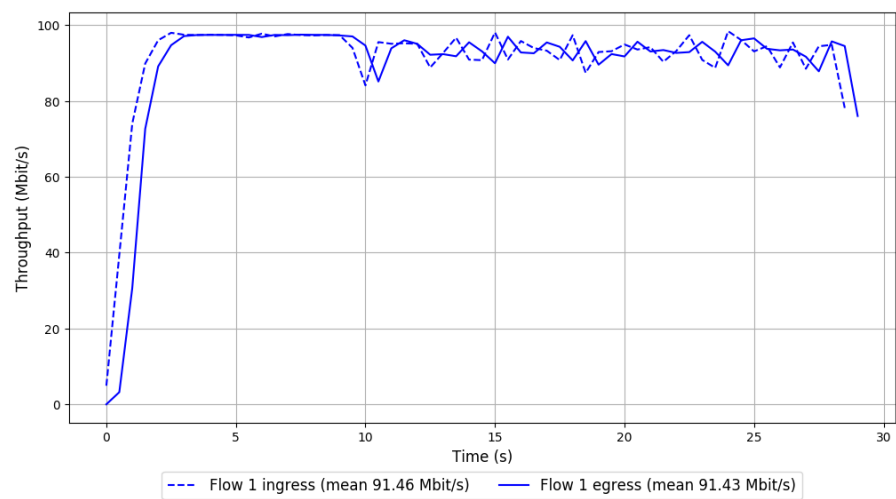
-- Flow 1:

Average throughput: 91.43 Mbit/s

95th percentile per-packet one-way delay: 92.975 ms

Loss rate: 0.31%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-19 07:09:04

End at: 2019-01-19 07:09:34

Local clock offset: 0.919 ms

Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2019-01-19 07:53:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.23 Mbit/s

95th percentile per-packet one-way delay: 94.934 ms

Loss rate: 0.33%

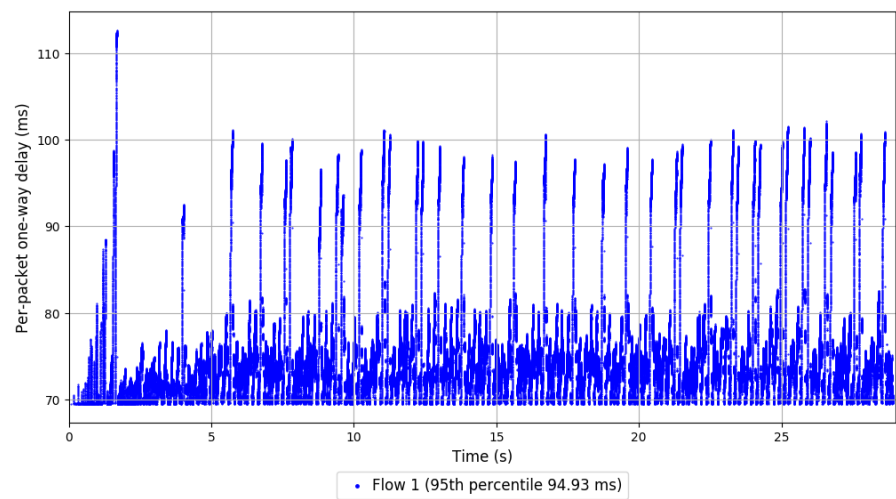
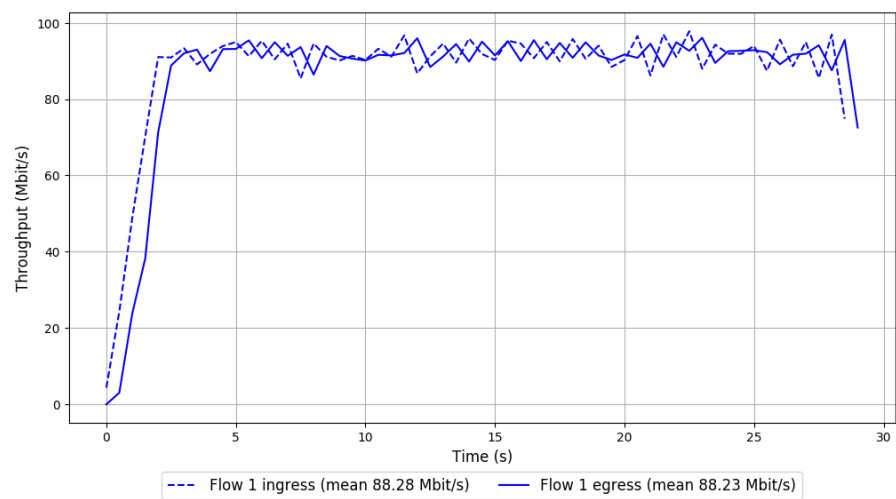
-- Flow 1:

Average throughput: 88.23 Mbit/s

95th percentile per-packet one-way delay: 94.934 ms

Loss rate: 0.33%

Run 4: Report of Indigo-MusesC5 — Data Link

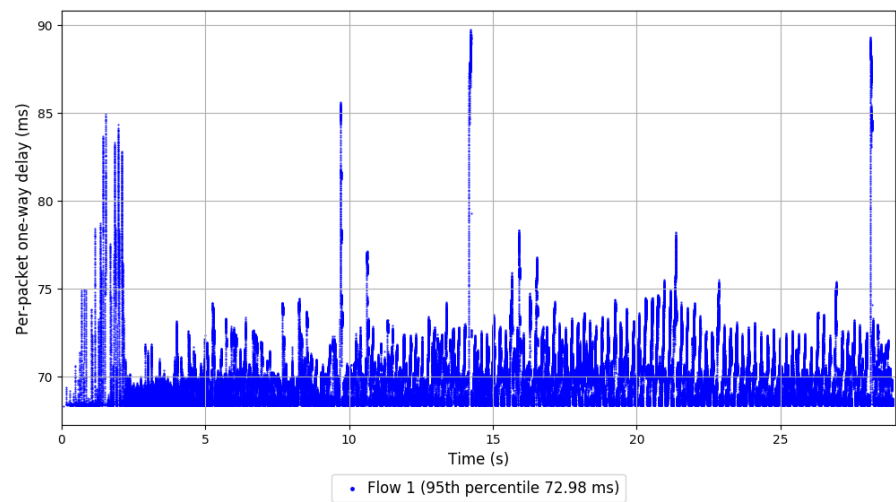
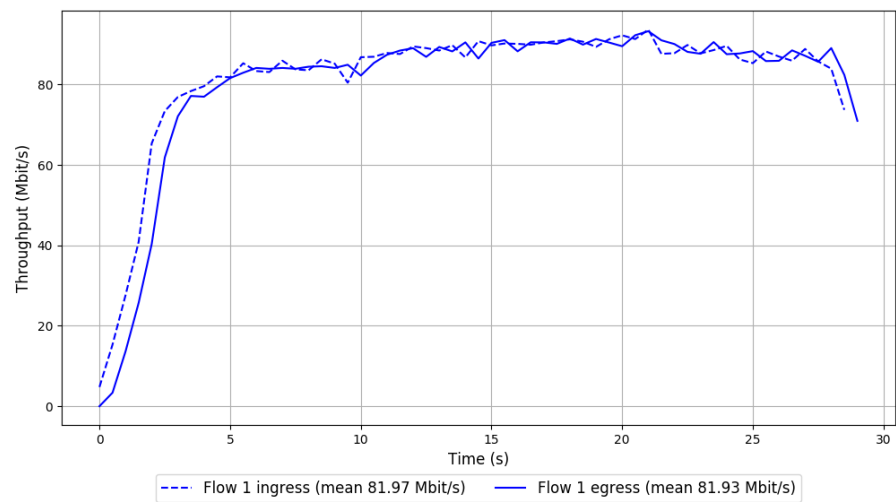


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-19 07:37:17  
End at: 2019-01-19 07:37:47  
Local clock offset: -0.317 ms  
Remote clock offset: -0.475 ms

# Below is generated by plot.py at 2019-01-19 07:53:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.93 Mbit/s  
95th percentile per-packet one-way delay: 72.980 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 81.93 Mbit/s  
95th percentile per-packet one-way delay: 72.980 ms  
Loss rate: 0.31%

Run 5: Report of Indigo-MusesC5 — Data Link



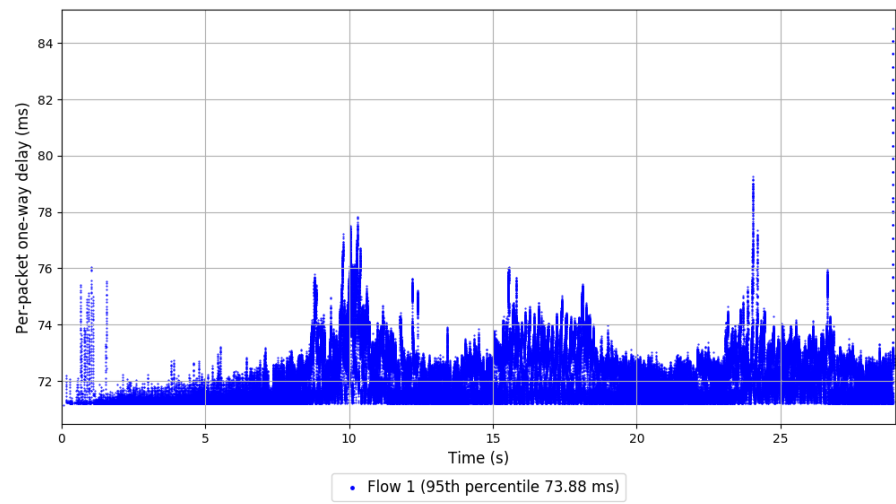
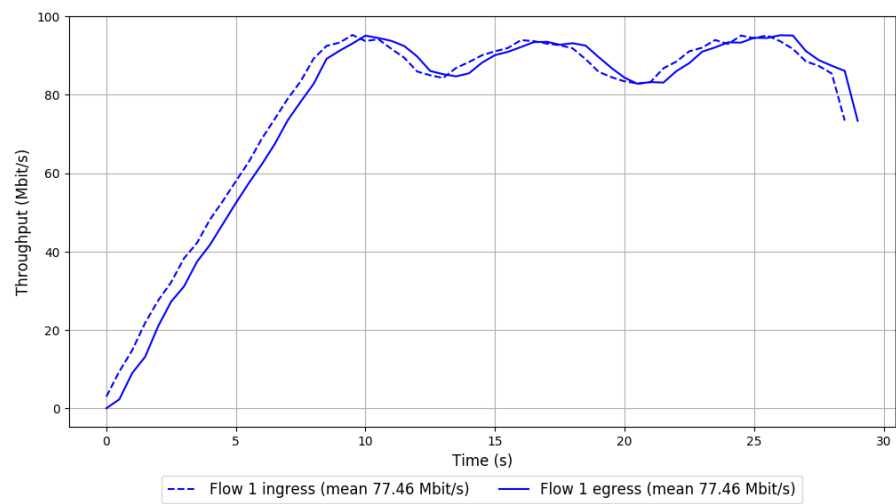


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-19 05:37:04
End at: 2019-01-19 05:37:34
Local clock offset: 1.397 ms
Remote clock offset: 0.281 ms

# Below is generated by plot.py at 2019-01-19 07:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 73.882 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 73.882 ms
Loss rate: 0.27%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:07:37

End at: 2019-01-19 06:08:07

Local clock offset: 1.706 ms

Remote clock offset: 0.591 ms

# Below is generated by plot.py at 2019-01-19 07:53:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 71.458 ms

Loss rate: 0.27%

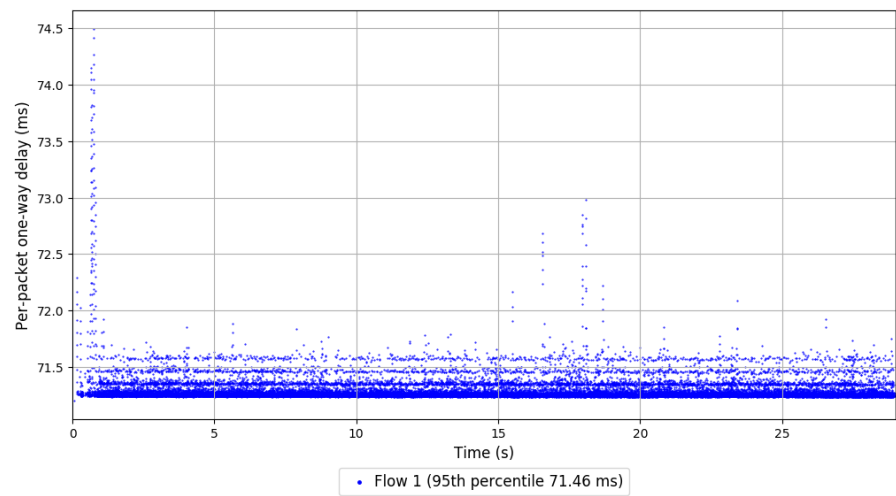
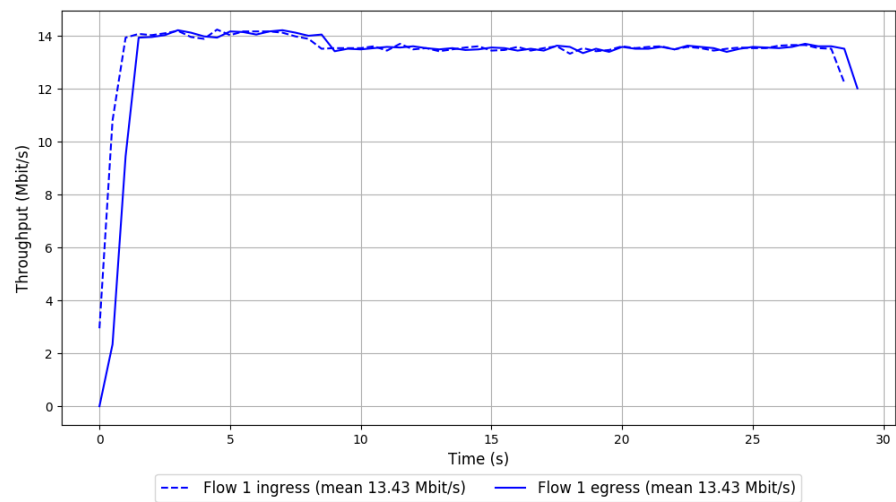
-- Flow 1:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 71.458 ms

Loss rate: 0.27%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:36:11

End at: 2019-01-19 06:36:41

Local clock offset: 2.638 ms

Remote clock offset: -0.236 ms

# Below is generated by plot.py at 2019-01-19 07:53:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 71.872 ms

Loss rate: 0.31%

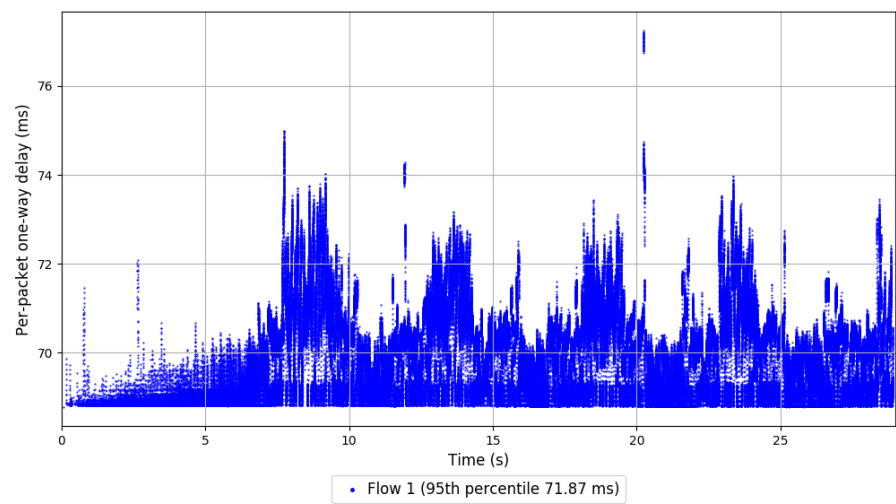
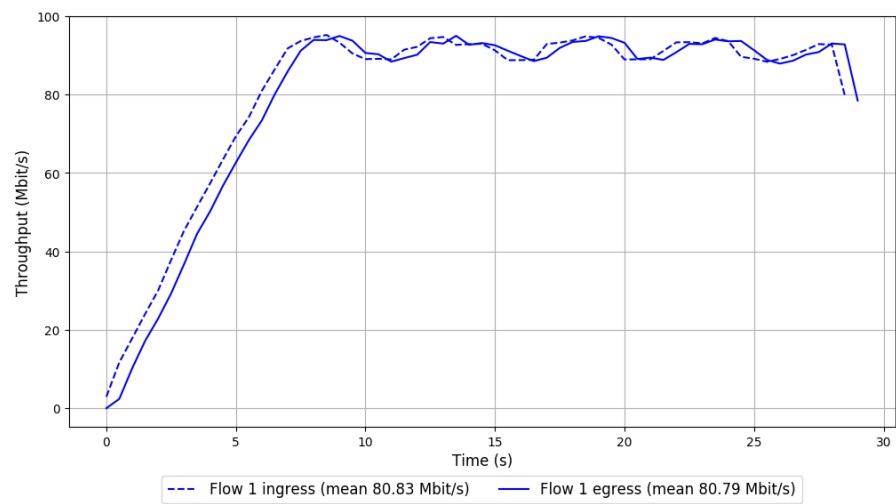
-- Flow 1:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 71.872 ms

Loss rate: 0.31%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-19 07:06:42

End at: 2019-01-19 07:07:12

Local clock offset: 0.678 ms

Remote clock offset: -0.301 ms

# Below is generated by plot.py at 2019-01-19 07:53:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.99 Mbit/s

95th percentile per-packet one-way delay: 71.896 ms

Loss rate: 0.13%

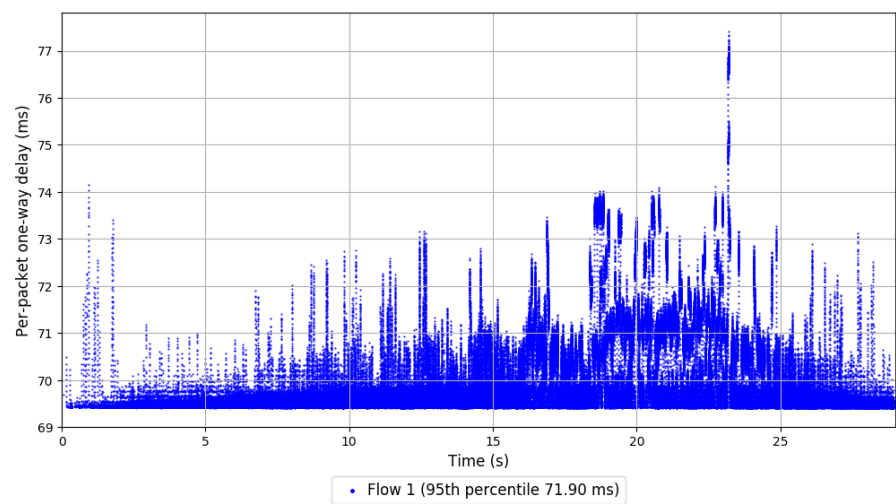
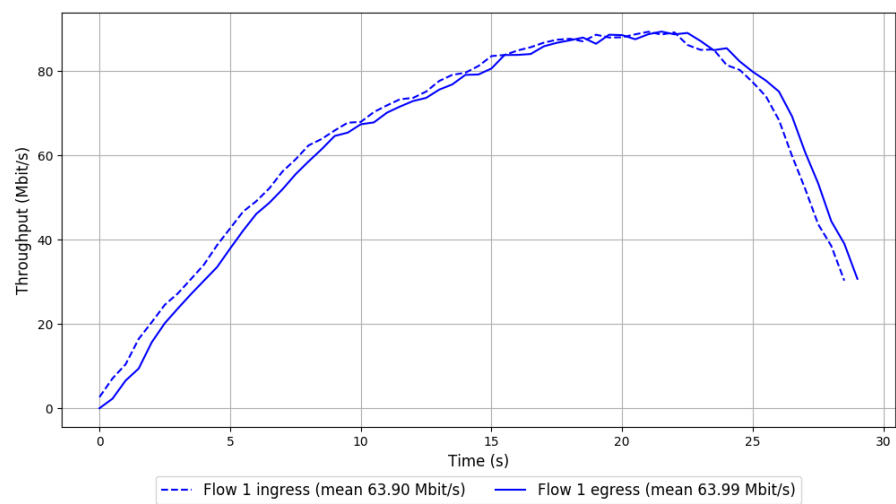
-- Flow 1:

Average throughput: 63.99 Mbit/s

95th percentile per-packet one-way delay: 71.896 ms

Loss rate: 0.13%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-19 07:34:42

End at: 2019-01-19 07:35:12

Local clock offset: 2.16 ms

Remote clock offset: -0.375 ms

# Below is generated by plot.py at 2019-01-19 07:53:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.70 Mbit/s

95th percentile per-packet one-way delay: 73.179 ms

Loss rate: 0.05%

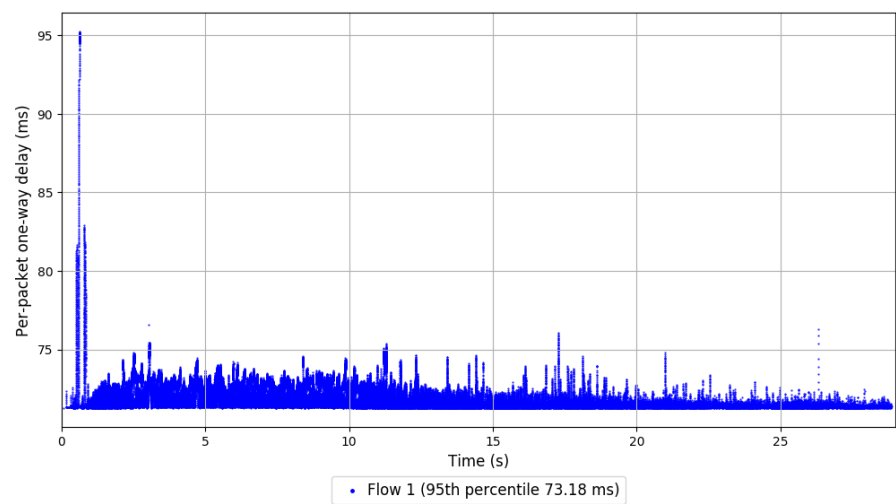
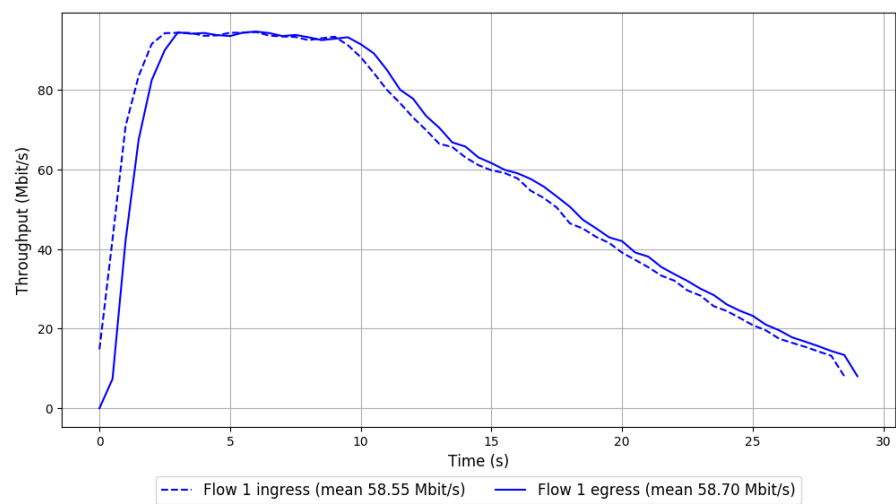
-- Flow 1:

Average throughput: 58.70 Mbit/s

95th percentile per-packet one-way delay: 73.179 ms

Loss rate: 0.05%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-19 05:35:35

End at: 2019-01-19 05:36:05

Local clock offset: 1.804 ms

Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-01-19 07:54:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.07 Mbit/s

95th percentile per-packet one-way delay: 82.869 ms

Loss rate: 0.37%

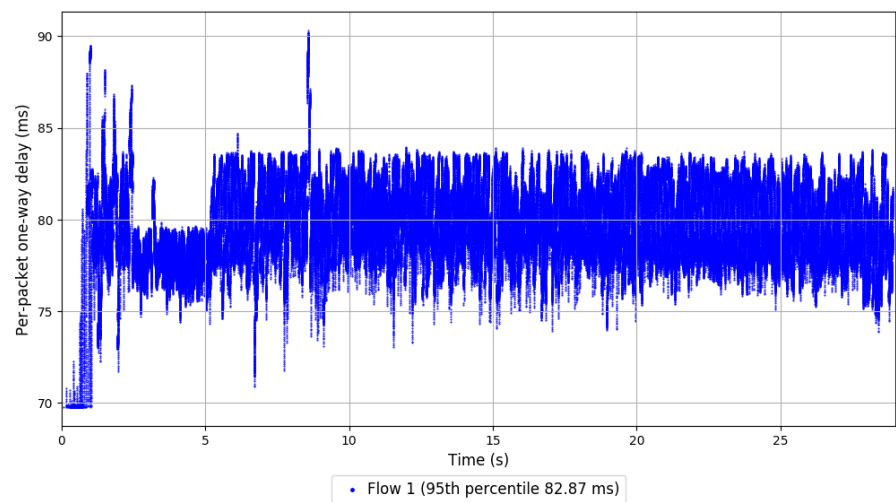
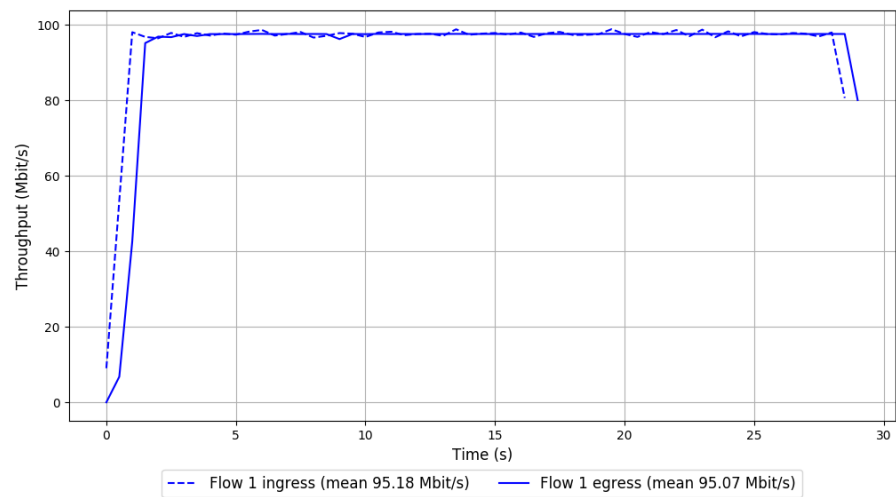
-- Flow 1:

Average throughput: 95.07 Mbit/s

95th percentile per-packet one-way delay: 82.869 ms

Loss rate: 0.37%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:06:01

End at: 2019-01-19 06:06:31

Local clock offset: 0.036 ms

Remote clock offset: 1.161 ms

# Below is generated by plot.py at 2019-01-19 07:54:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 109.392 ms

Loss rate: 0.44%

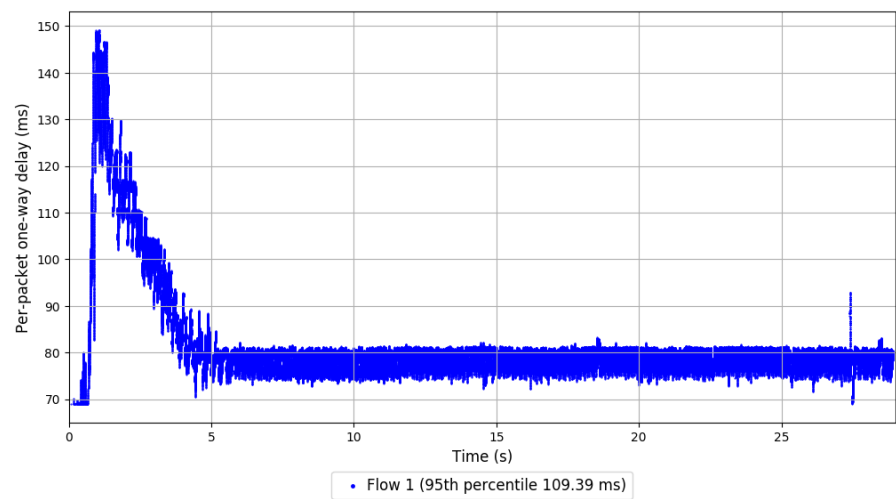
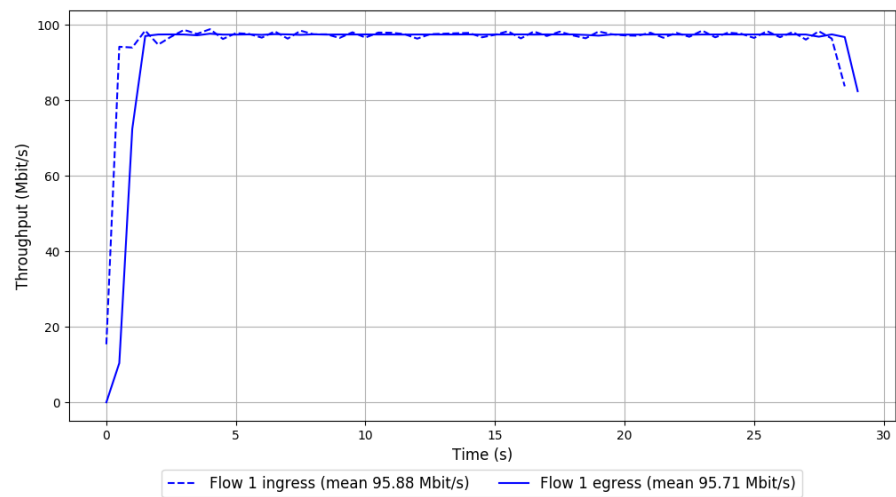
-- Flow 1:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 109.392 ms

Loss rate: 0.44%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:34:43

End at: 2019-01-19 06:35:13

Local clock offset: 1.934 ms

Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2019-01-19 07:54:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 85.659 ms

Loss rate: 0.45%

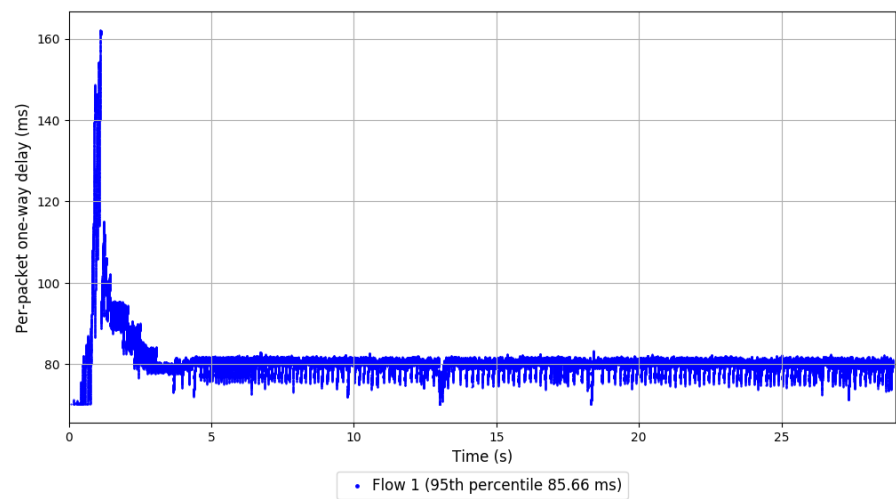
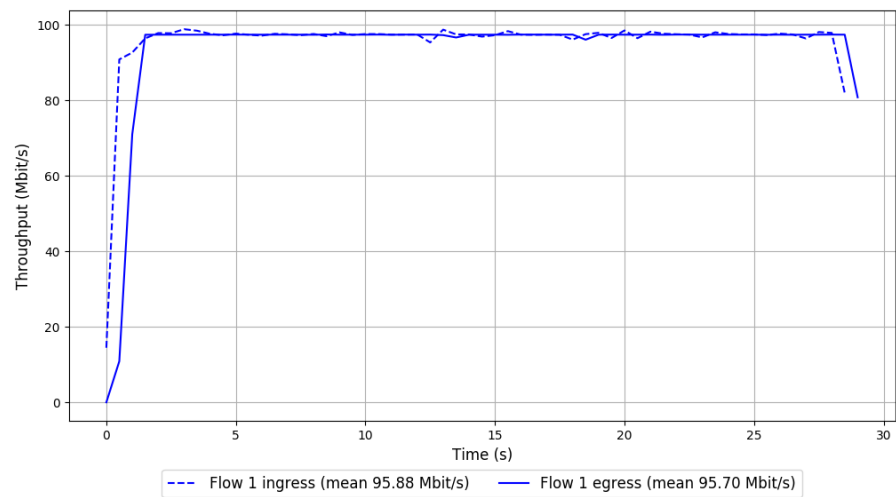
-- Flow 1:

Average throughput: 95.70 Mbit/s

95th percentile per-packet one-way delay: 85.659 ms

Loss rate: 0.45%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-19 07:05:14

End at: 2019-01-19 07:05:44

Local clock offset: 2.363 ms

Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2019-01-19 07:54:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 89.962 ms

Loss rate: 0.39%

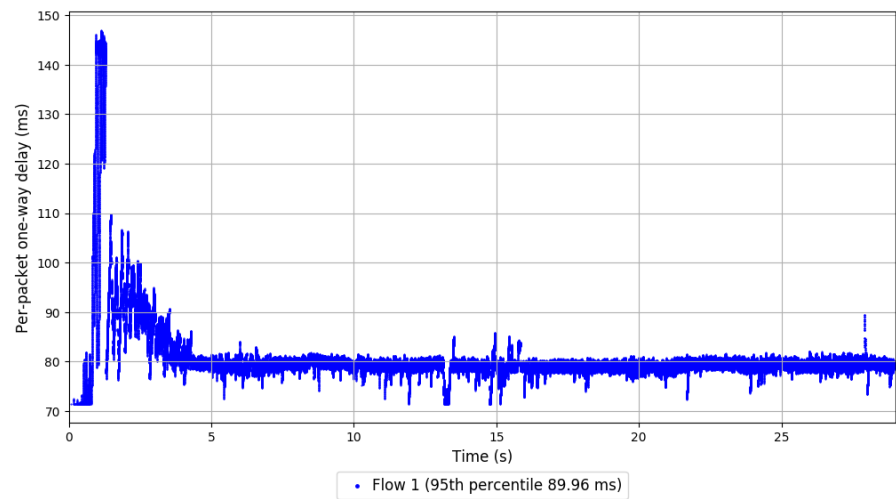
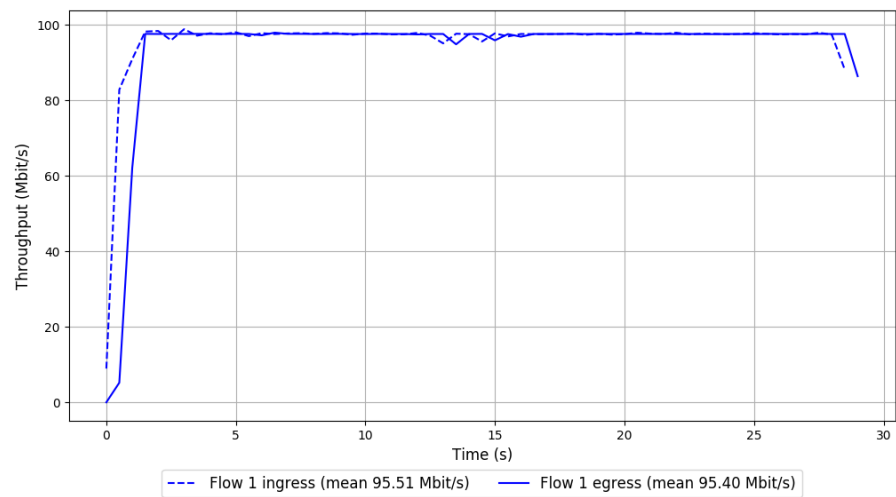
-- Flow 1:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 89.962 ms

Loss rate: 0.39%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-19 07:33:12

End at: 2019-01-19 07:33:42

Local clock offset: 0.911 ms

Remote clock offset: -1.053 ms

# Below is generated by plot.py at 2019-01-19 07:54:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 77.686 ms

Loss rate: 0.30%

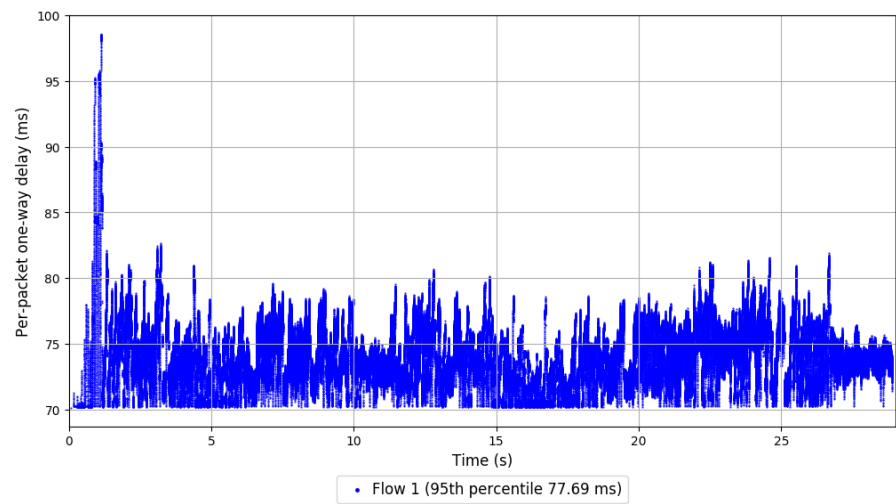
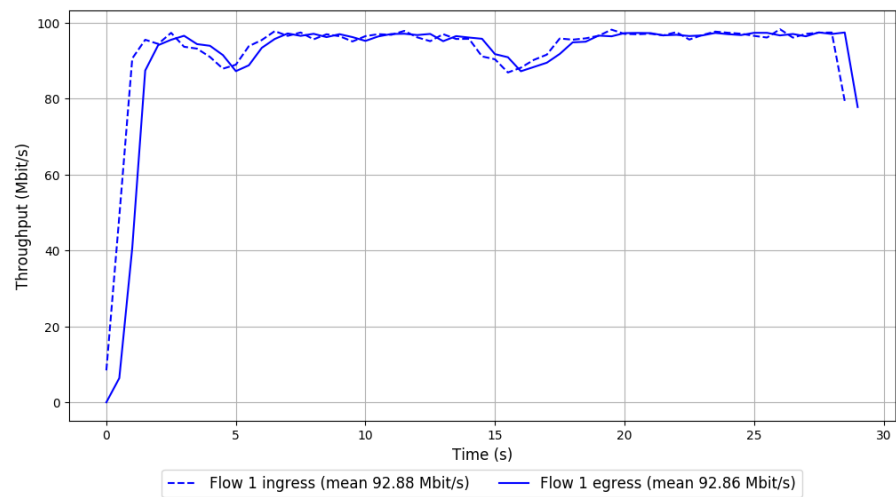
-- Flow 1:

Average throughput: 92.86 Mbit/s

95th percentile per-packet one-way delay: 77.686 ms

Loss rate: 0.30%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-01-19 05:31:23

End at: 2019-01-19 05:31:53

Local clock offset: 0.484 ms

Remote clock offset: 0.599 ms

# Below is generated by plot.py at 2019-01-19 07:54:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 77.198 ms

Loss rate: 0.27%

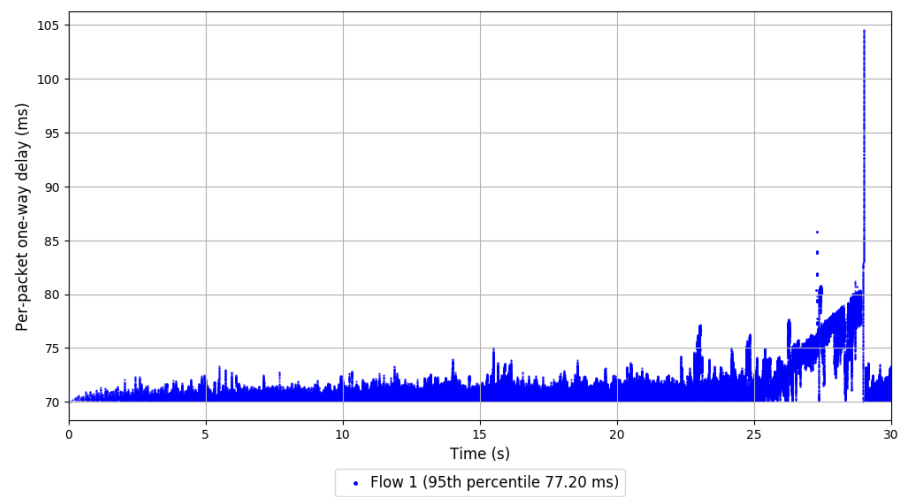
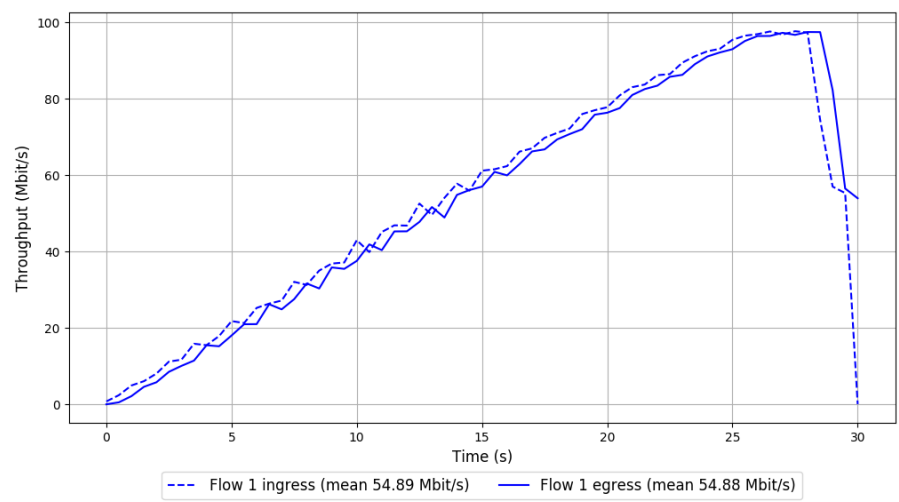
-- Flow 1:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 77.198 ms

Loss rate: 0.27%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-01-19 06:02:05

End at: 2019-01-19 06:02:35

Local clock offset: 0.289 ms

Remote clock offset: 0.325 ms

# Below is generated by plot.py at 2019-01-19 07:54:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 77.489 ms

Loss rate: 0.28%

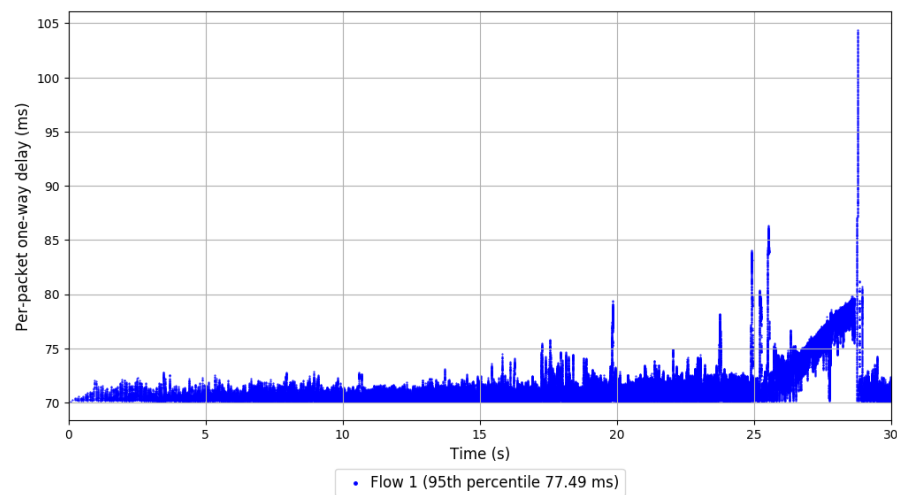
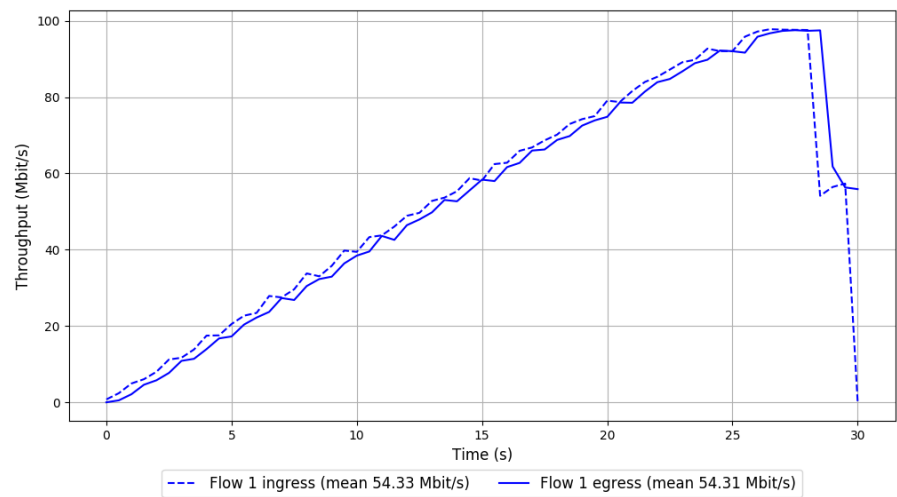
-- Flow 1:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 77.489 ms

Loss rate: 0.28%

Run 2: Report of LEDBAT — Data Link



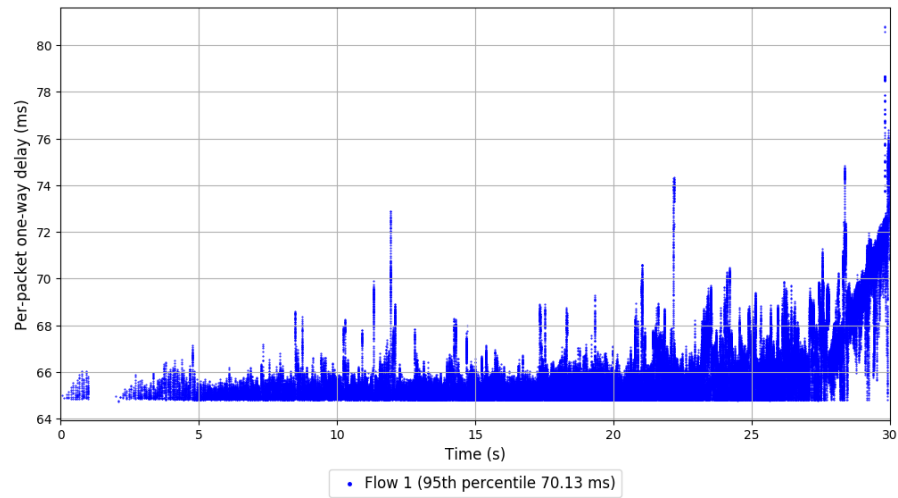
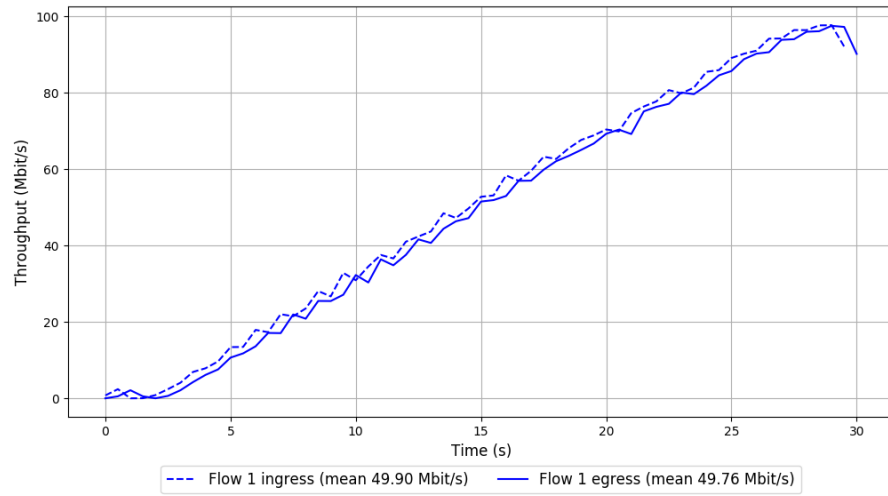


Run 3: Statistics of LEDBAT

Start at: 2019-01-19 06:31:05  
End at: 2019-01-19 06:31:35  
Local clock offset: -4.249 ms  
Remote clock offset: -0.551 ms

# Below is generated by plot.py at 2019-01-19 07:54:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 49.76 Mbit/s  
95th percentile per-packet one-way delay: 70.134 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 49.76 Mbit/s  
95th percentile per-packet one-way delay: 70.134 ms  
Loss rate: 0.53%

### Run 3: Report of LEDBAT — Data Link

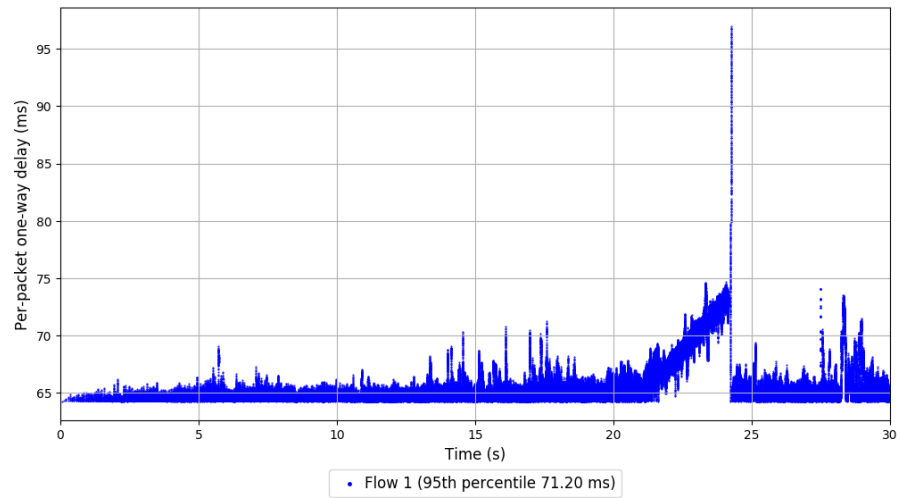
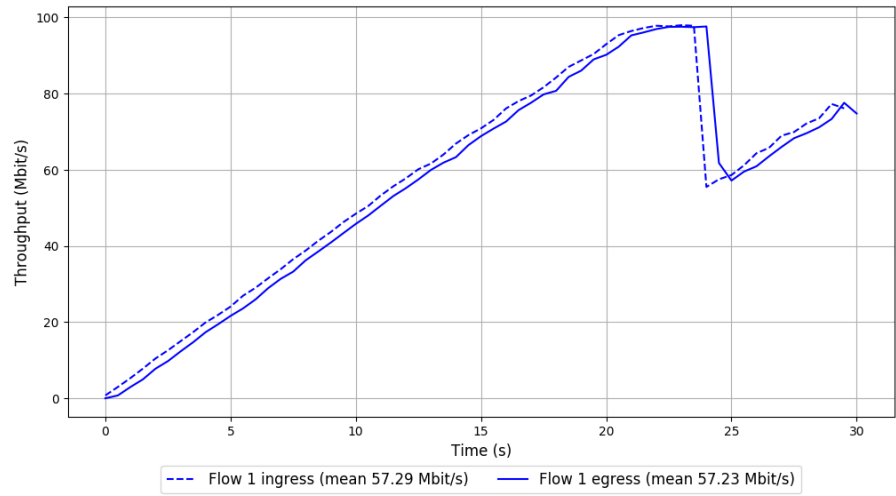


Run 4: Statistics of LEDBAT

Start at: 2019-01-19 07:01:20  
End at: 2019-01-19 07:01:50  
Local clock offset: 0.448 ms  
Remote clock offset: -2.853 ms

# Below is generated by plot.py at 2019-01-19 07:54:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.23 Mbit/s  
95th percentile per-packet one-way delay: 71.202 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 57.23 Mbit/s  
95th percentile per-packet one-way delay: 71.202 ms  
Loss rate: 0.34%

#### Run 4: Report of LEDBAT — Data Link

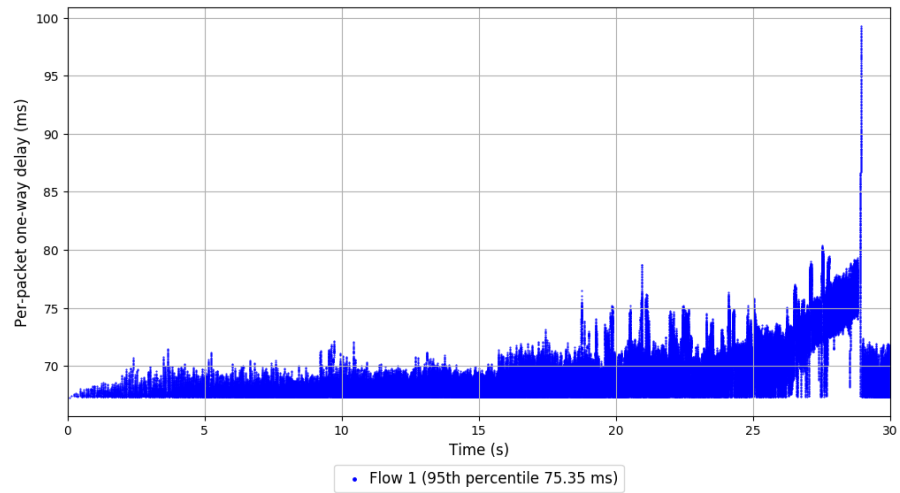
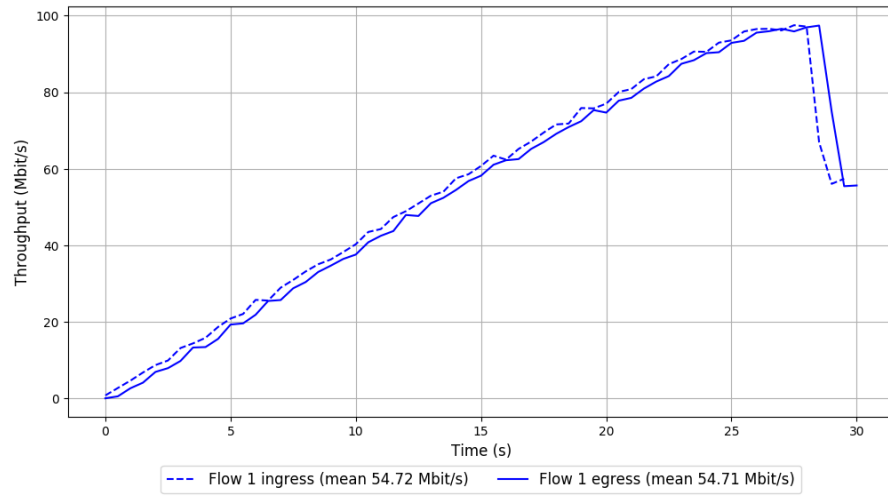


Run 5: Statistics of LEDBAT

Start at: 2019-01-19 07:29:42  
End at: 2019-01-19 07:30:12  
Local clock offset: 0.554 ms  
Remote clock offset: -1.527 ms

# Below is generated by plot.py at 2019-01-19 07:54:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 54.71 Mbit/s  
95th percentile per-packet one-way delay: 75.354 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 54.71 Mbit/s  
95th percentile per-packet one-way delay: 75.354 ms  
Loss rate: 0.27%

### Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-19 05:20:22

End at: 2019-01-19 05:20:52

Local clock offset: -0.6 ms

Remote clock offset: 0.716 ms

# Below is generated by plot.py at 2019-01-19 07:55:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 87.179 ms

Loss rate: 0.34%

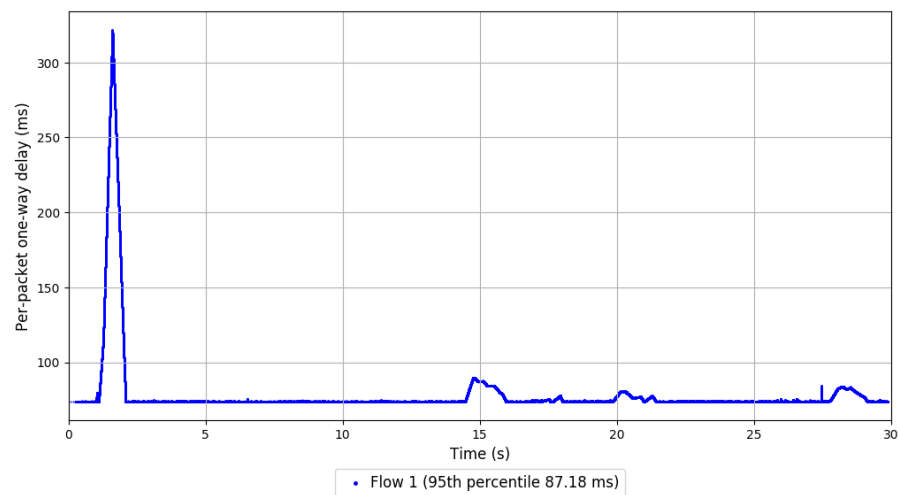
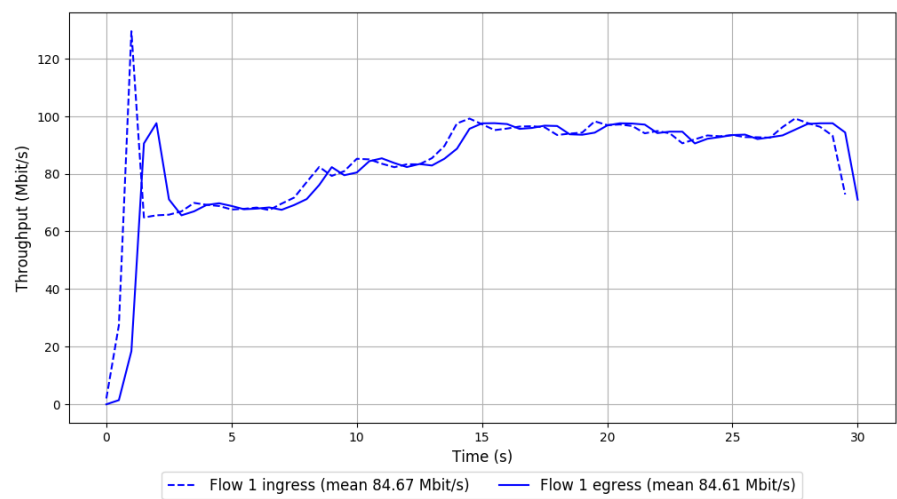
-- Flow 1:

Average throughput: 84.61 Mbit/s

95th percentile per-packet one-way delay: 87.179 ms

Loss rate: 0.34%

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-19 05:51:24

End at: 2019-01-19 05:51:54

Local clock offset: 1.684 ms

Remote clock offset: 1.408 ms

# Below is generated by plot.py at 2019-01-19 07:55:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 75.315 ms

Loss rate: 0.31%

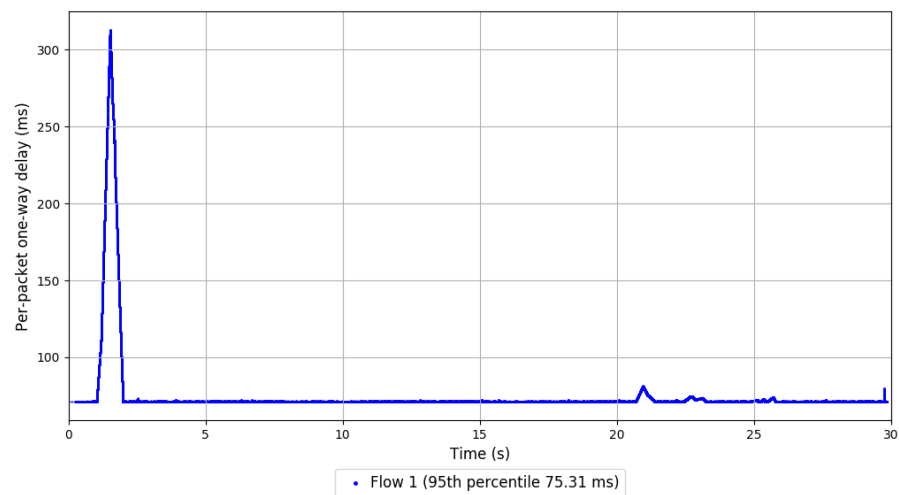
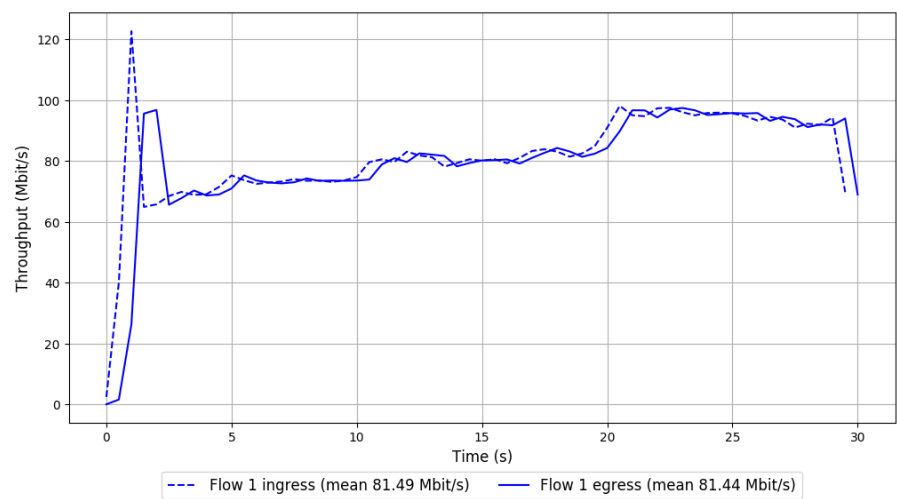
-- Flow 1:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 75.315 ms

Loss rate: 0.31%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-19 06:21:11

End at: 2019-01-19 06:21:41

Local clock offset: -0.236 ms

Remote clock offset: 0.481 ms

# Below is generated by plot.py at 2019-01-19 07:55:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 61.85 Mbit/s

95th percentile per-packet one-way delay: 66.798 ms

Loss rate: 0.48%

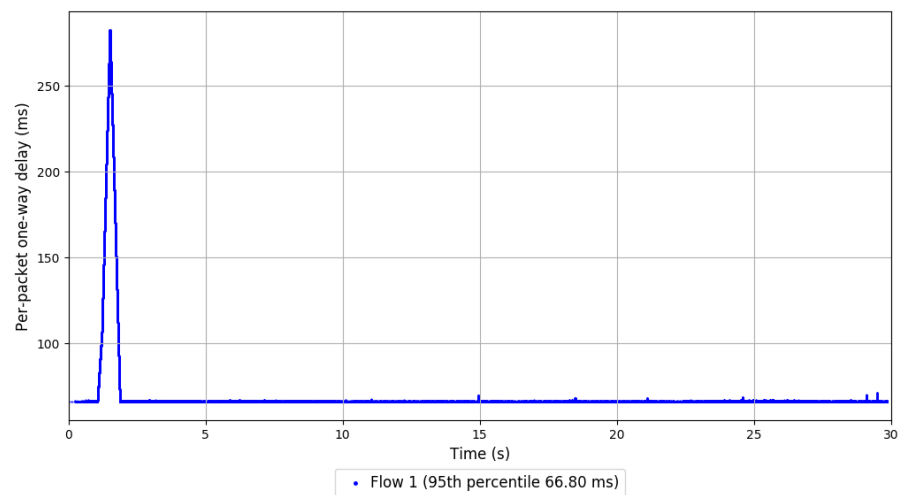
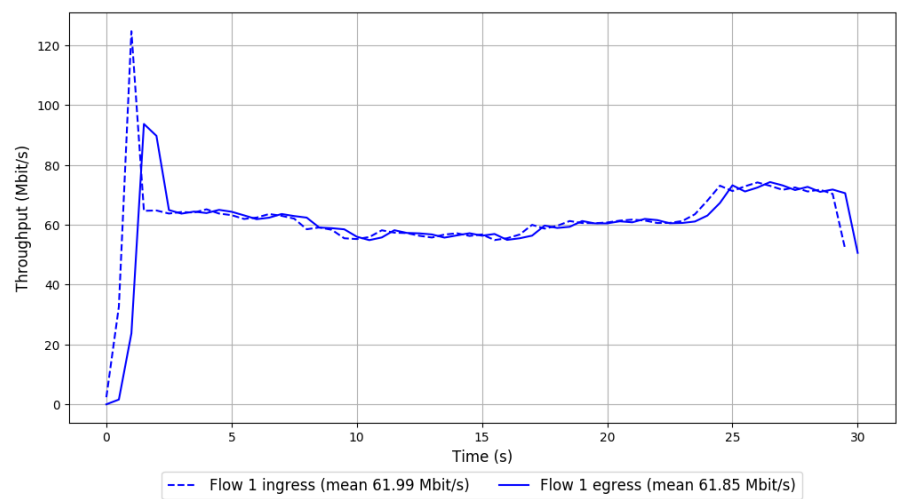
-- Flow 1:

Average throughput: 61.85 Mbit/s

95th percentile per-packet one-way delay: 66.798 ms

Loss rate: 0.48%

Run 3: Report of PCC-Allegro — Data Link

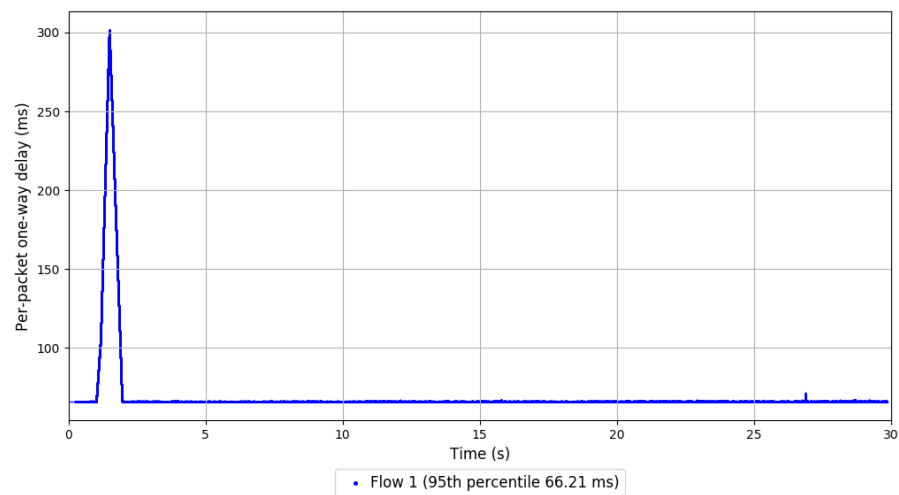
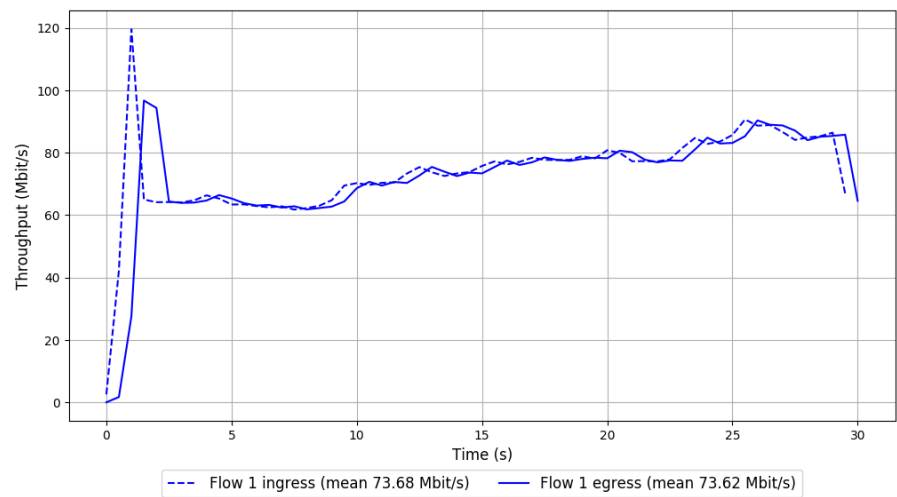


Run 4: Statistics of PCC-Allegro

Start at: 2019-01-19 06:50:51  
End at: 2019-01-19 06:51:21  
Local clock offset: 0.266 ms  
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2019-01-19 07:55:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 73.62 Mbit/s  
95th percentile per-packet one-way delay: 66.207 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 73.62 Mbit/s  
95th percentile per-packet one-way delay: 66.207 ms  
Loss rate: 0.33%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-19 07:19:59

End at: 2019-01-19 07:20:29

Local clock offset: 2.156 ms

Remote clock offset: -1.165 ms

# Below is generated by plot.py at 2019-01-19 07:55:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 67.68 Mbit/s

95th percentile per-packet one-way delay: 71.358 ms

Loss rate: 0.45%

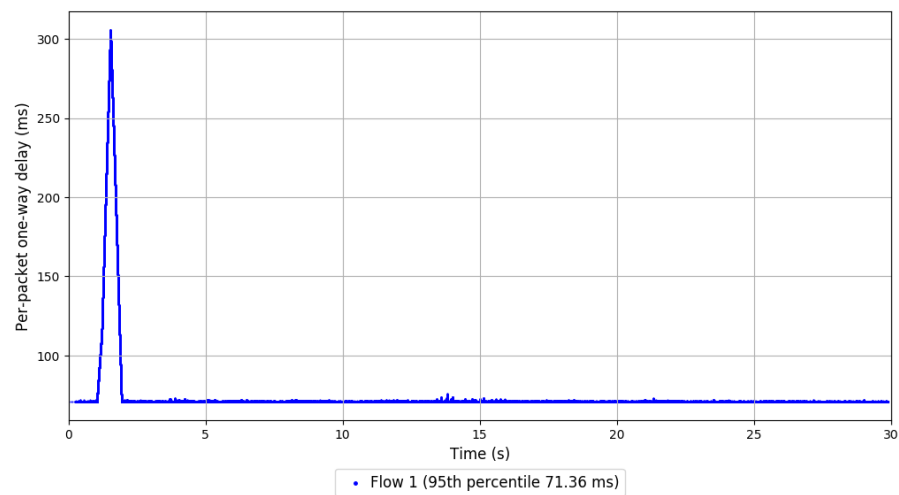
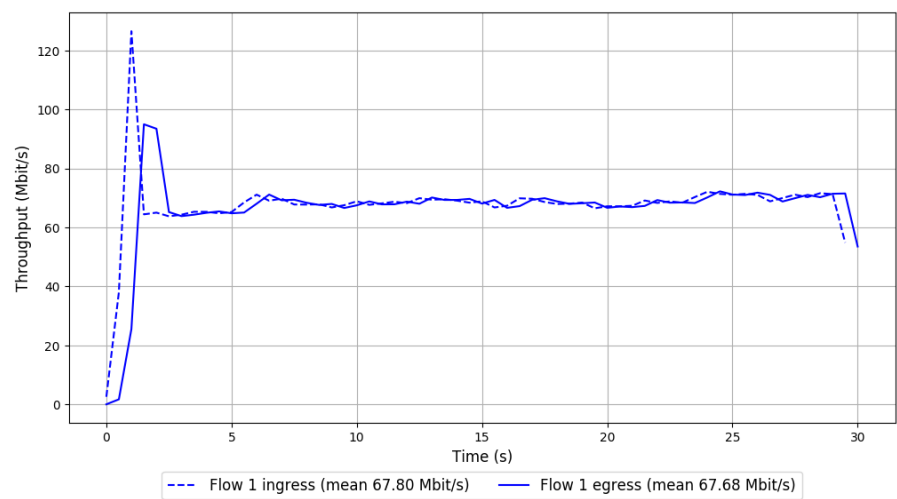
-- Flow 1:

Average throughput: 67.68 Mbit/s

95th percentile per-packet one-way delay: 71.358 ms

Loss rate: 0.45%

Run 5: Report of PCC-Allegro — Data Link



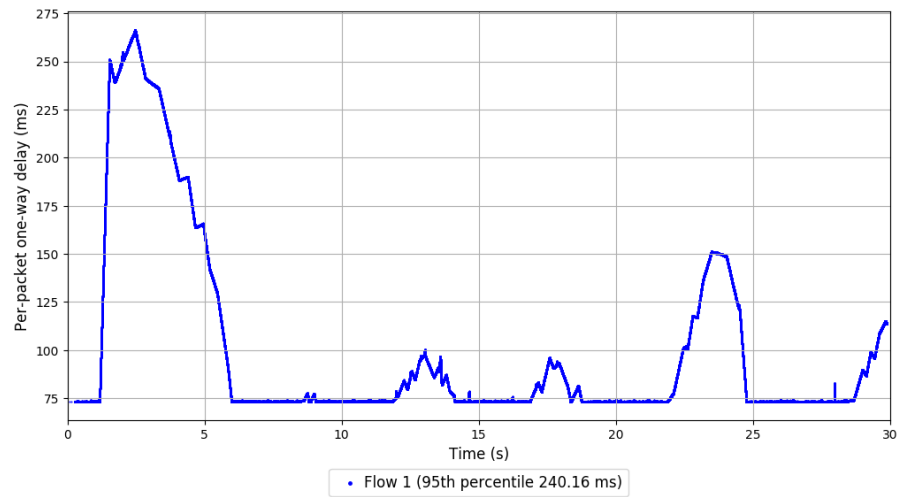
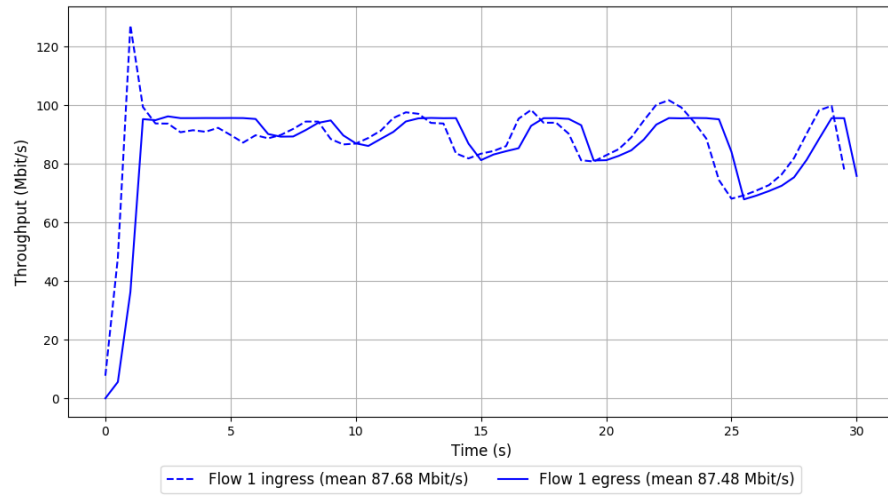


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-19 05:26:51
End at: 2019-01-19 05:27:21
Local clock offset: 0.928 ms
Remote clock offset: 2.641 ms

# Below is generated by plot.py at 2019-01-19 07:56:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 240.157 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 87.48 Mbit/s
95th percentile per-packet one-way delay: 240.157 ms
Loss rate: 0.50%
```

# Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-19 05:57:42

End at: 2019-01-19 05:58:12

Local clock offset: 0.407 ms

Remote clock offset: 1.279 ms

# Below is generated by plot.py at 2019-01-19 07:56:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 231.368 ms

Loss rate: 0.32%

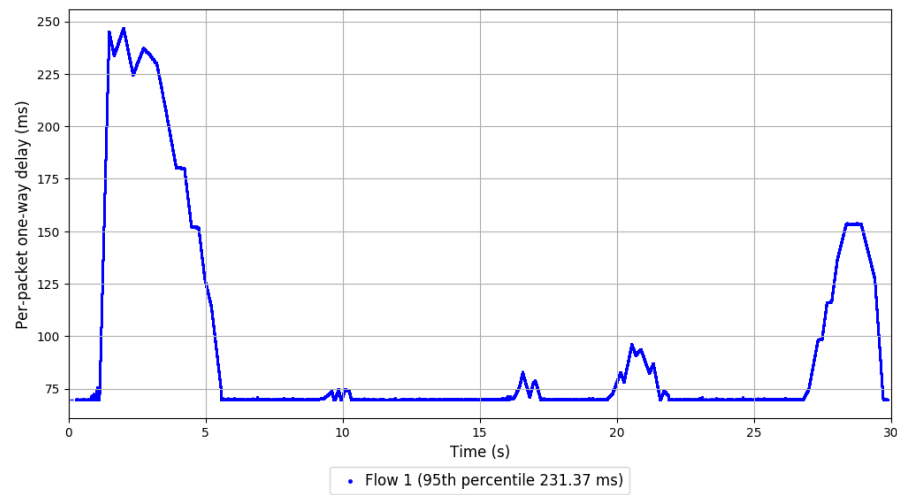
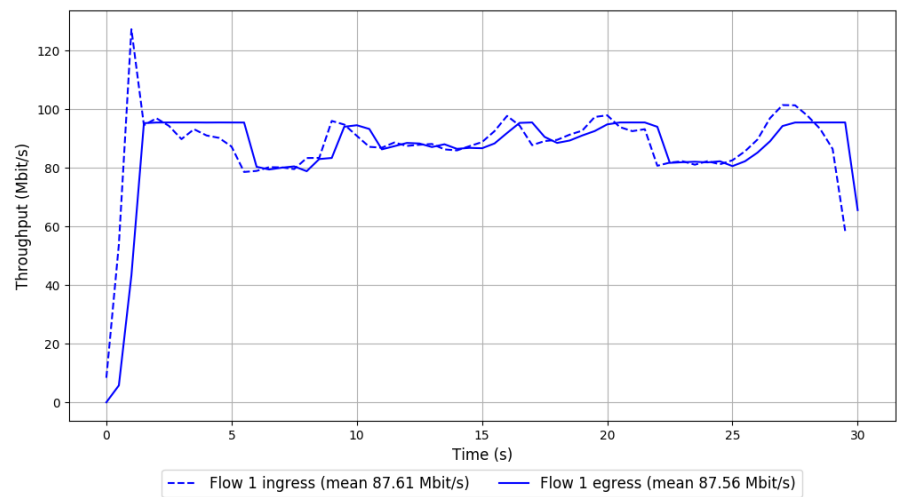
-- Flow 1:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 231.368 ms

Loss rate: 0.32%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-01-19 06:26:43

End at: 2019-01-19 06:27:13

Local clock offset: 1.609 ms

Remote clock offset: 0.429 ms

# Below is generated by plot.py at 2019-01-19 07:56:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 100.363 ms

Loss rate: 0.39%

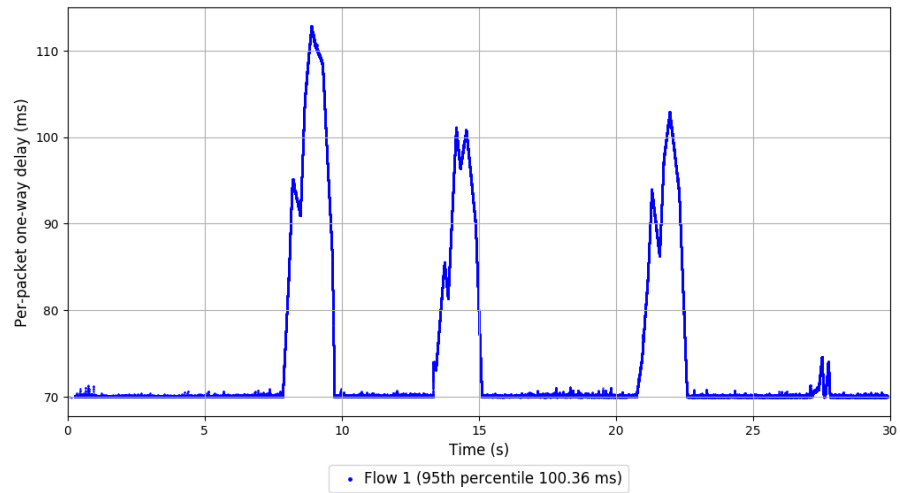
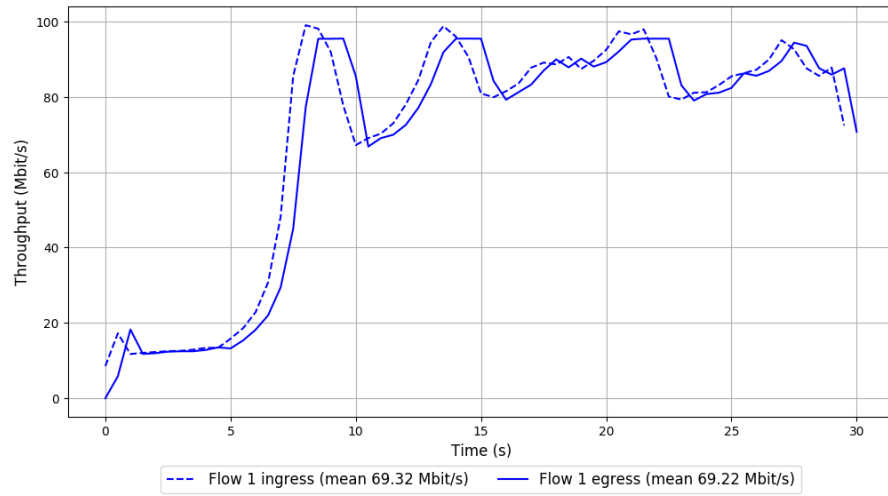
-- Flow 1:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 100.363 ms

Loss rate: 0.39%

### Run 3: Report of PCC-Expr — Data Link

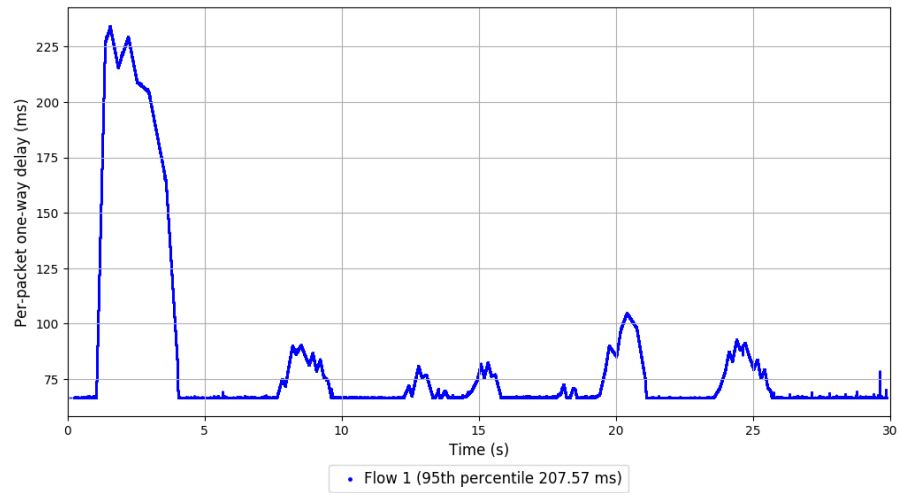
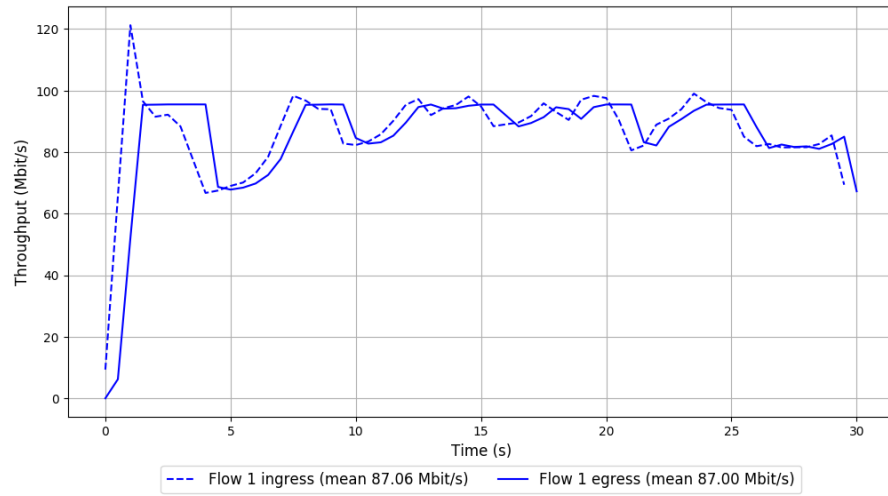


Run 4: Statistics of PCC-Expr

Start at: 2019-01-19 06:56:47  
End at: 2019-01-19 06:57:17  
Local clock offset: 0.997 ms  
Remote clock offset: -2.332 ms

# Below is generated by plot.py at 2019-01-19 07:57:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 87.00 Mbit/s  
95th percentile per-packet one-way delay: 207.575 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 87.00 Mbit/s  
95th percentile per-packet one-way delay: 207.575 ms  
Loss rate: 0.32%

#### Run 4: Report of PCC-Expr — Data Link



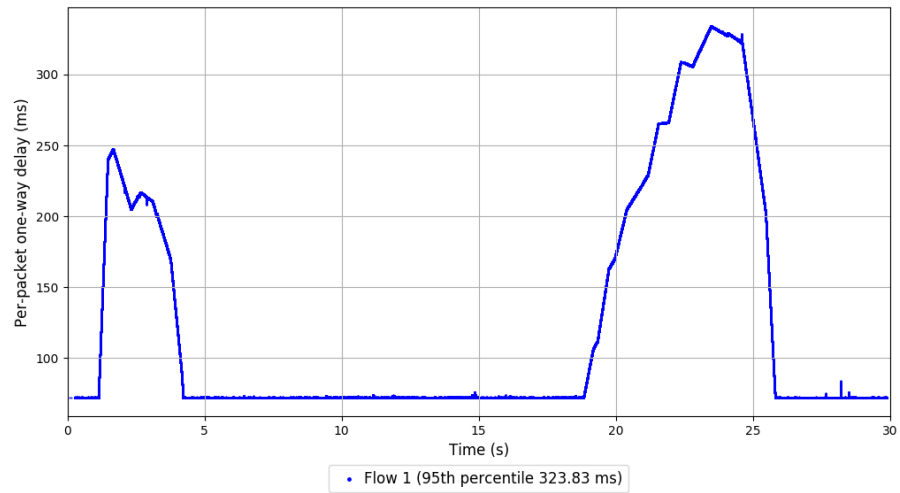
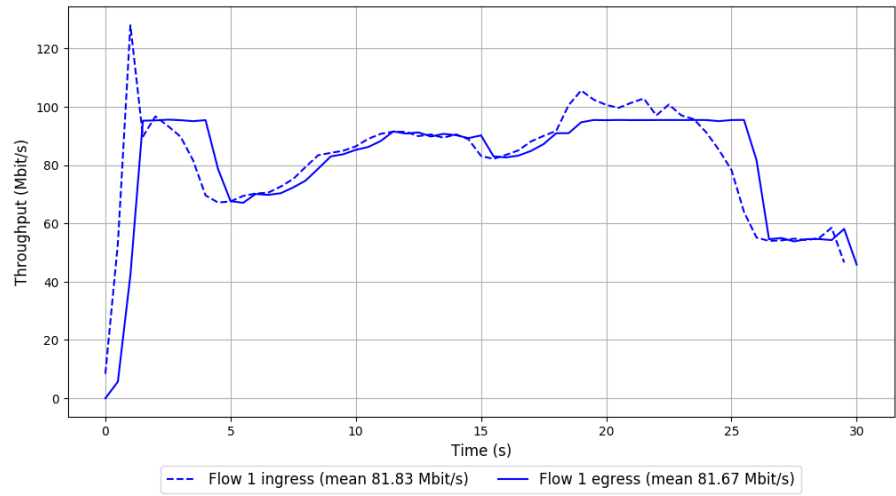


Run 5: Statistics of PCC-Expr

Start at: 2019-01-19 07:25:24  
End at: 2019-01-19 07:25:54  
Local clock offset: 3.041 ms  
Remote clock offset: -1.222 ms

# Below is generated by plot.py at 2019-01-19 07:57:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 81.67 Mbit/s  
95th percentile per-packet one-way delay: 323.827 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 81.67 Mbit/s  
95th percentile per-packet one-way delay: 323.827 ms  
Loss rate: 0.44%

## Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-19 05:25:32

End at: 2019-01-19 05:26:02

Local clock offset: 0.909 ms

Remote clock offset: 2.423 ms

# Below is generated by plot.py at 2019-01-19 07:57:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 85.142 ms

Loss rate: 0.40%

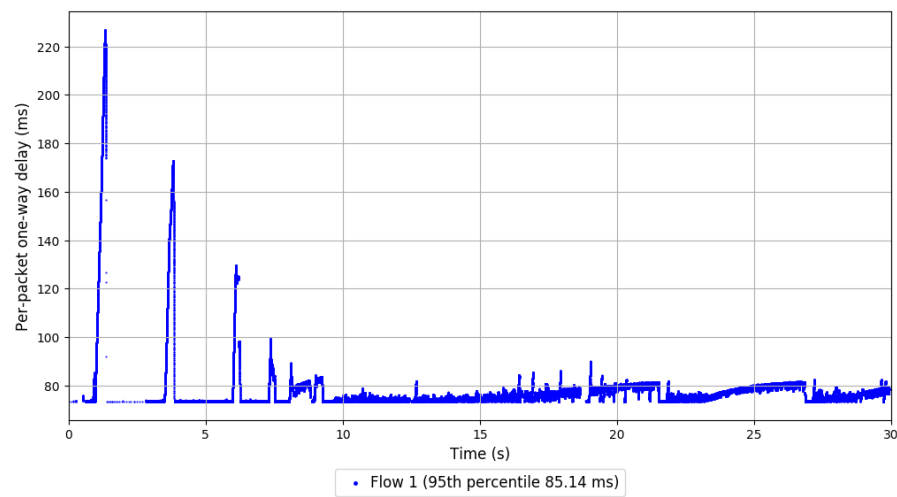
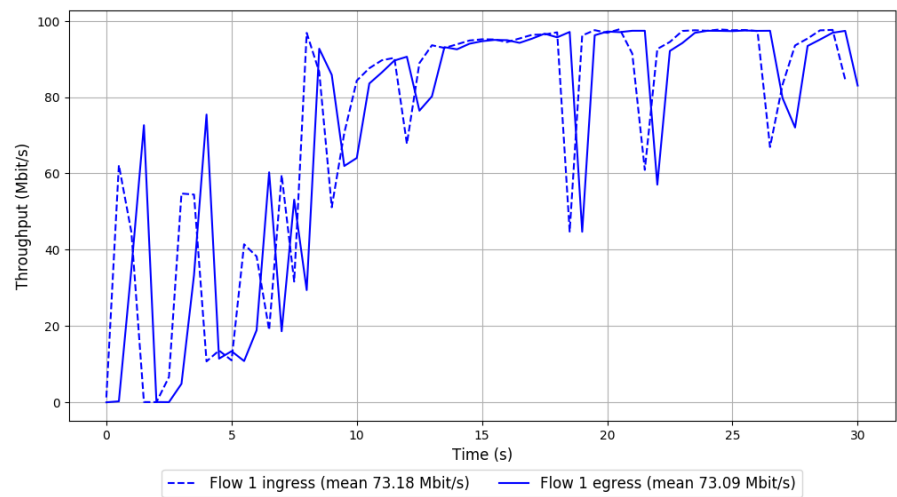
-- Flow 1:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 85.142 ms

Loss rate: 0.40%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-19 05:56:21

End at: 2019-01-19 05:56:51

Local clock offset: -0.348 ms

Remote clock offset: 0.912 ms

# Below is generated by plot.py at 2019-01-19 07:57:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 82.981 ms

Loss rate: 0.38%

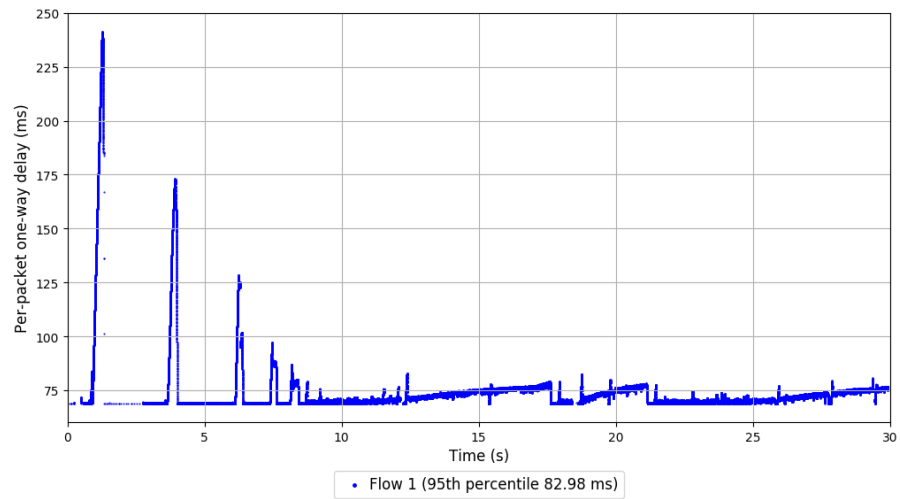
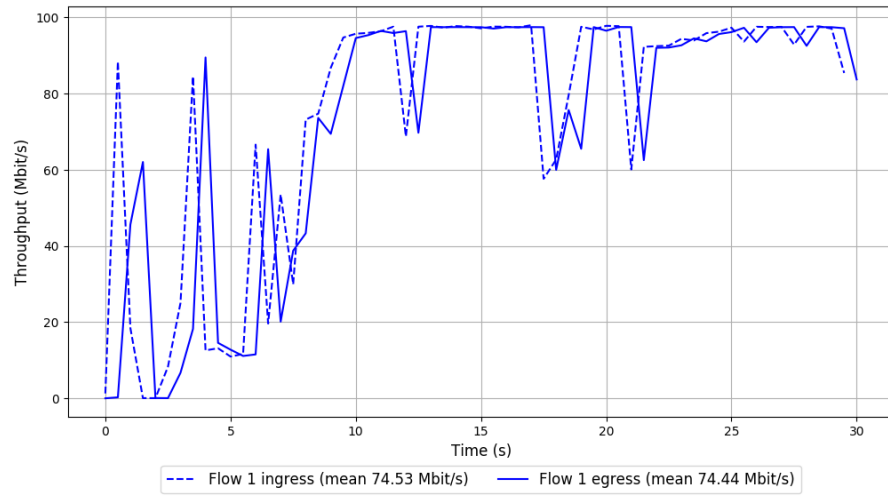
-- Flow 1:

Average throughput: 74.44 Mbit/s

95th percentile per-packet one-way delay: 82.981 ms

Loss rate: 0.38%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-19 06:25:23

End at: 2019-01-19 06:25:53

Local clock offset: 0.243 ms

Remote clock offset: -0.416 ms

# Below is generated by plot.py at 2019-01-19 07:57:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.80 Mbit/s

95th percentile per-packet one-way delay: 78.594 ms

Loss rate: 0.31%

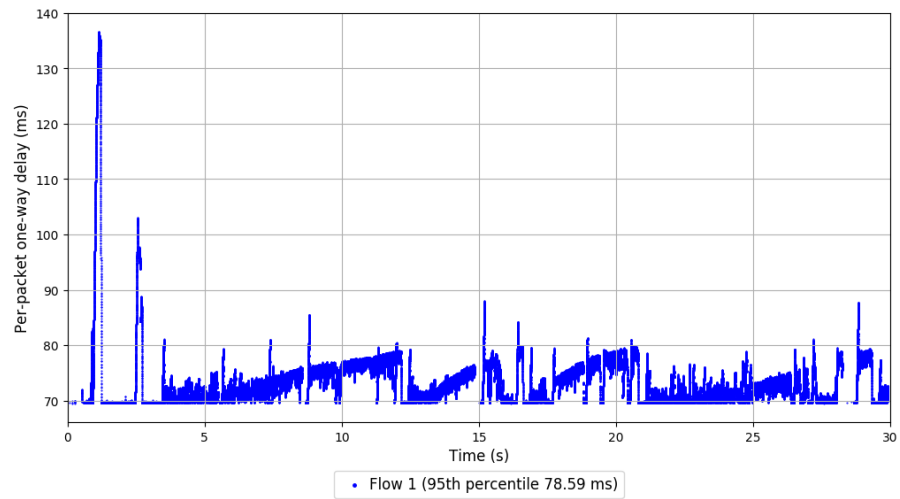
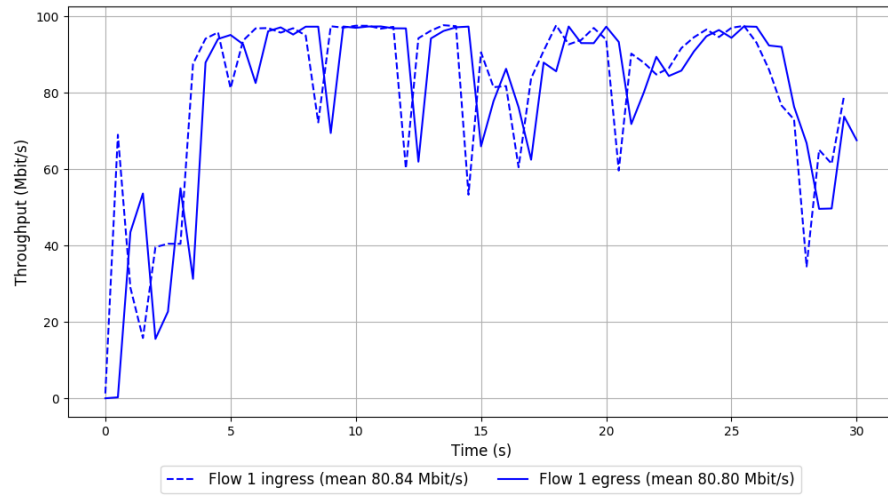
-- Flow 1:

Average throughput: 80.80 Mbit/s

95th percentile per-packet one-way delay: 78.594 ms

Loss rate: 0.31%

### Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-19 06:55:21

End at: 2019-01-19 06:55:51

Local clock offset: 2.65 ms

Remote clock offset: -2.31 ms

# Below is generated by plot.py at 2019-01-19 07:57:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 74.305 ms

Loss rate: 0.32%

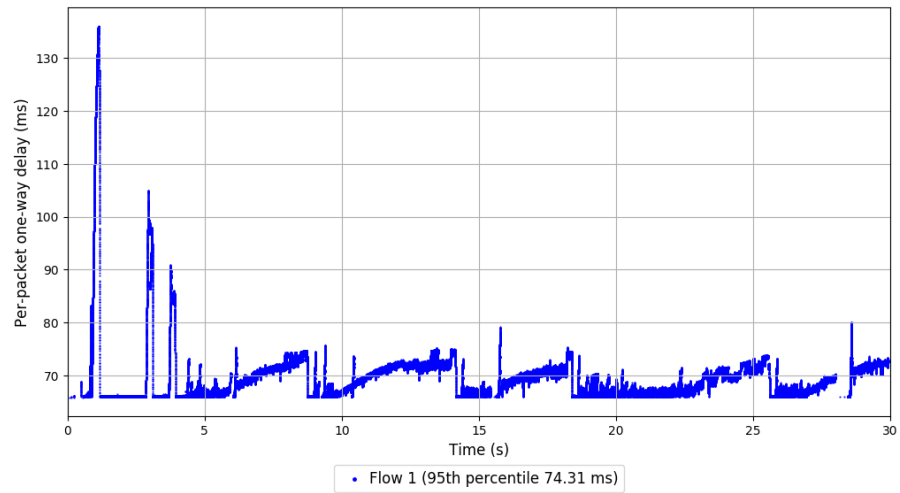
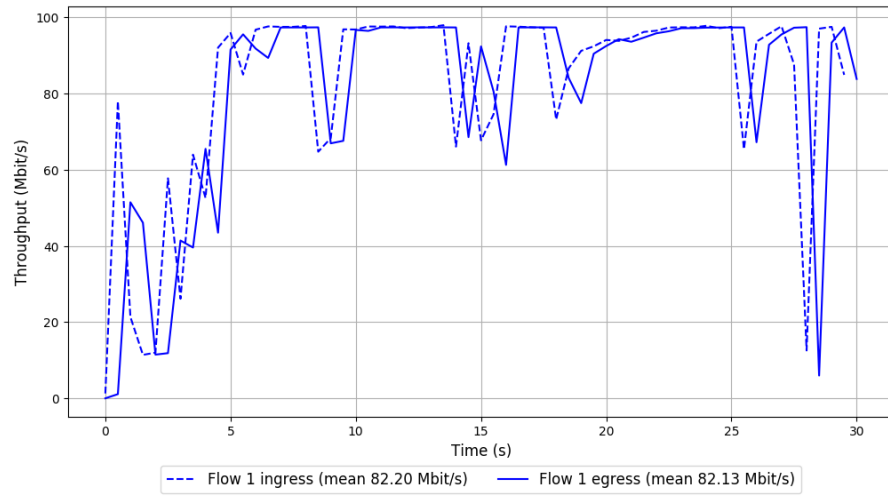
-- Flow 1:

Average throughput: 82.13 Mbit/s

95th percentile per-packet one-way delay: 74.305 ms

Loss rate: 0.32%

#### Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-19 07:24:03

End at: 2019-01-19 07:24:33

Local clock offset: 1.844 ms

Remote clock offset: -0.913 ms

# Below is generated by plot.py at 2019-01-19 07:57:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 79.891 ms

Loss rate: 0.26%

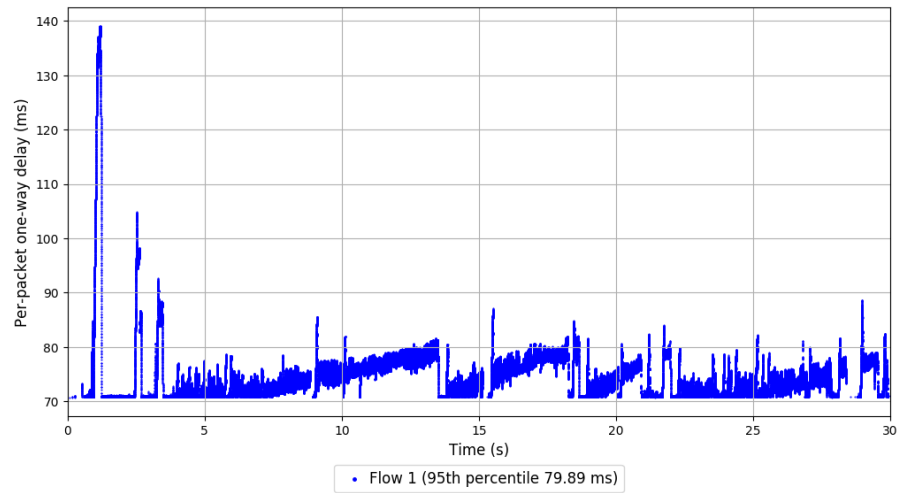
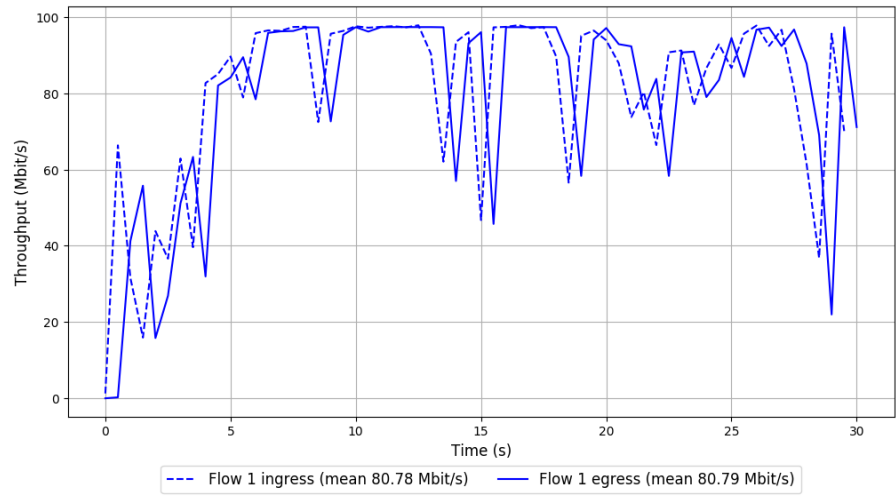
-- Flow 1:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 79.891 ms

Loss rate: 0.26%

## Run 5: Report of QUIC Cubic — Data Link

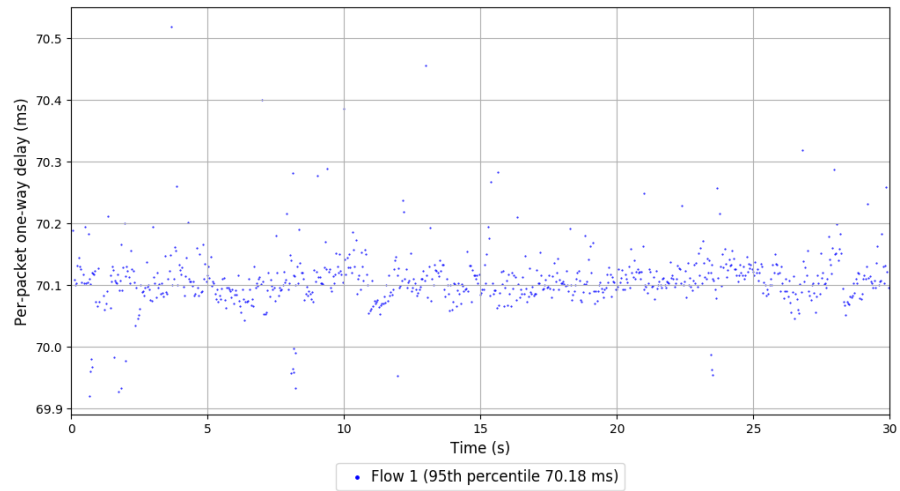
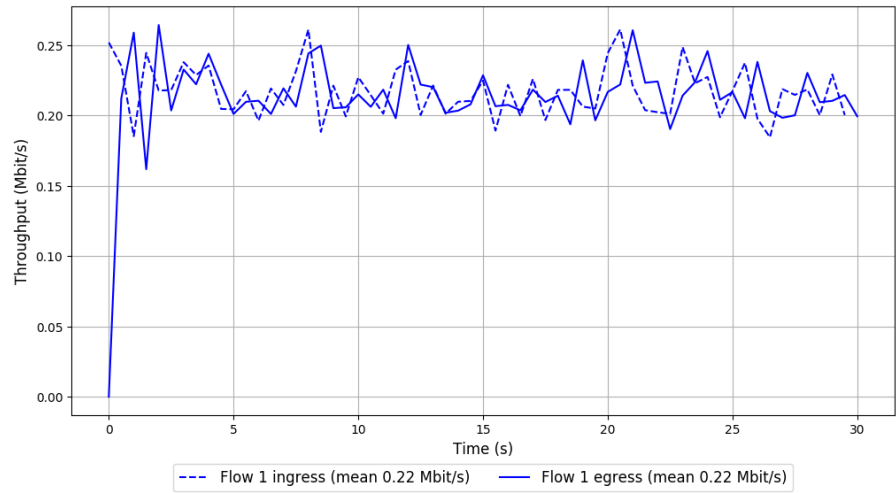


```
Run 1: Statistics of SCReAM

Start at: 2019-01-19 05:38:26
End at: 2019-01-19 05:38:56
Local clock offset: 0.844 ms
Remote clock offset: 0.883 ms

# Below is generated by plot.py at 2019-01-19 07:57:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.179 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.179 ms
Loss rate: 0.26%
```

## Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-01-19 06:08:45

End at: 2019-01-19 06:09:15

Local clock offset: 1.16 ms

Remote clock offset: 1.311 ms

# Below is generated by plot.py at 2019-01-19 07:57:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.777 ms

Loss rate: 0.26%

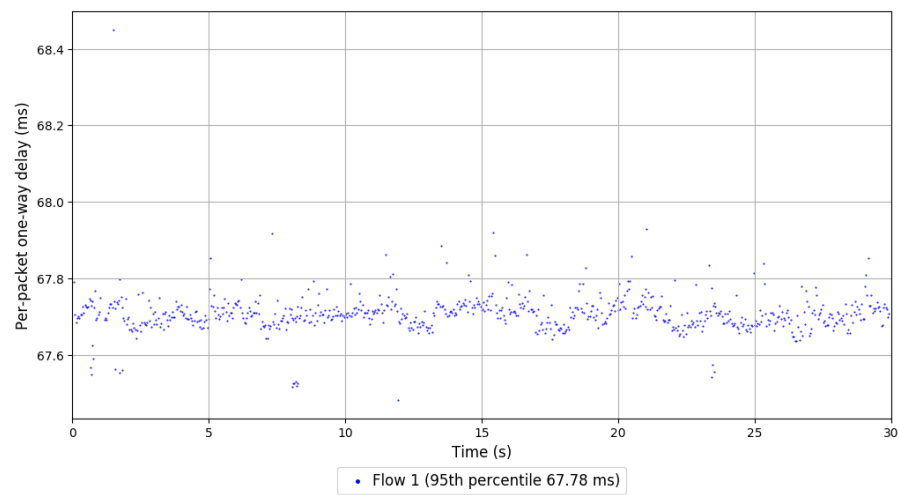
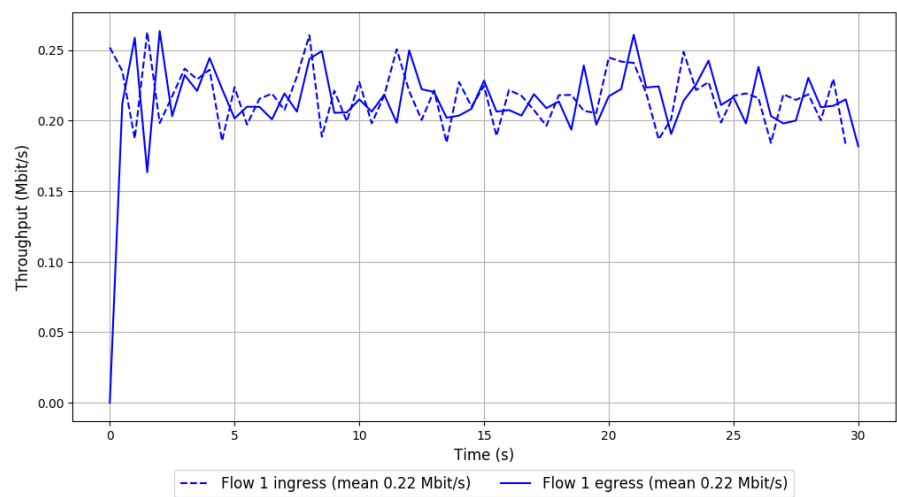
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.777 ms

Loss rate: 0.26%

Run 2: Report of SReAM — Data Link



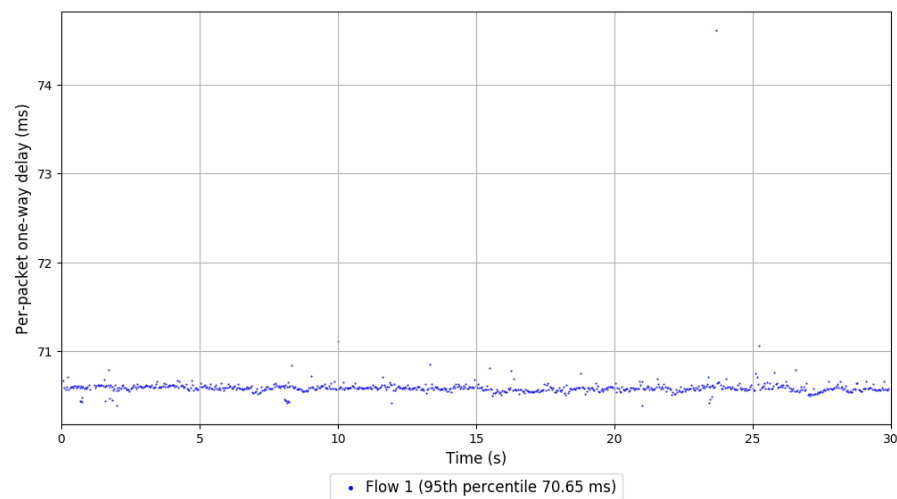
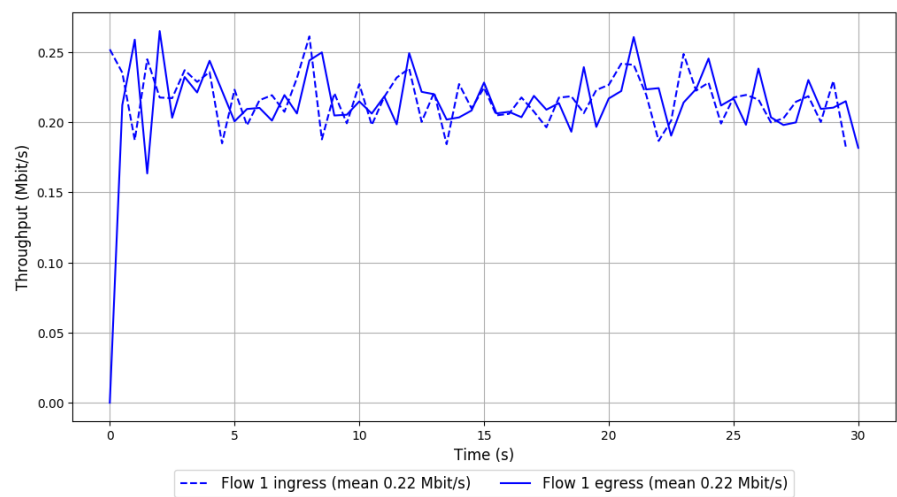


Run 3: Statistics of SCReAM

Start at: 2019-01-19 06:37:51  
End at: 2019-01-19 06:38:21  
Local clock offset: 2.293 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-01-19 07:57:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 70.651 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 70.651 ms  
Loss rate: 0.26%

Run 3: Report of SReAM — Data Link

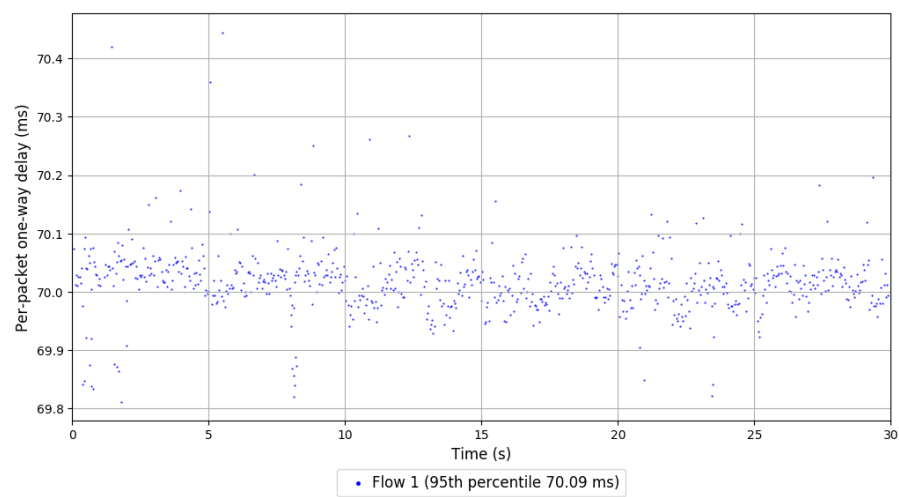
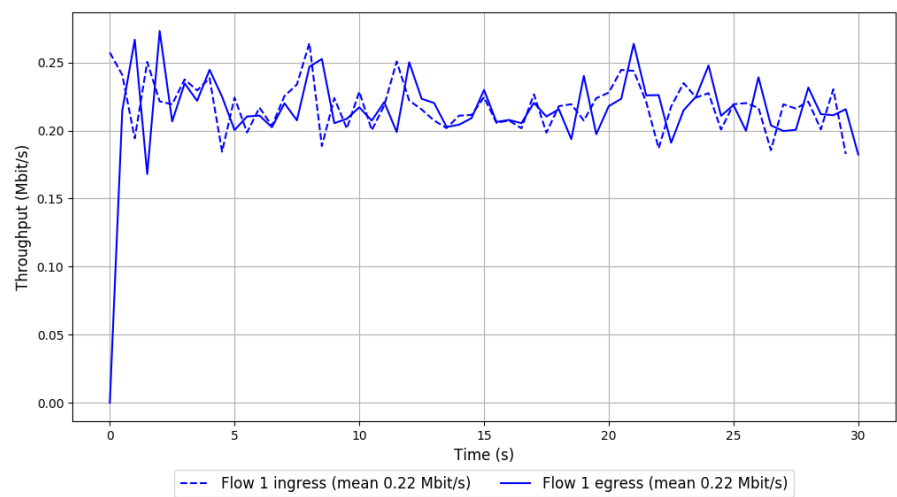


Run 4: Statistics of SCReAM

Start at: 2019-01-19 07:07:57  
End at: 2019-01-19 07:08:27  
Local clock offset: 0.847 ms  
Remote clock offset: -0.194 ms

# Below is generated by plot.py at 2019-01-19 07:57:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 70.093 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 70.093 ms  
Loss rate: 0.25%

Run 4: Report of SReAM — Data Link

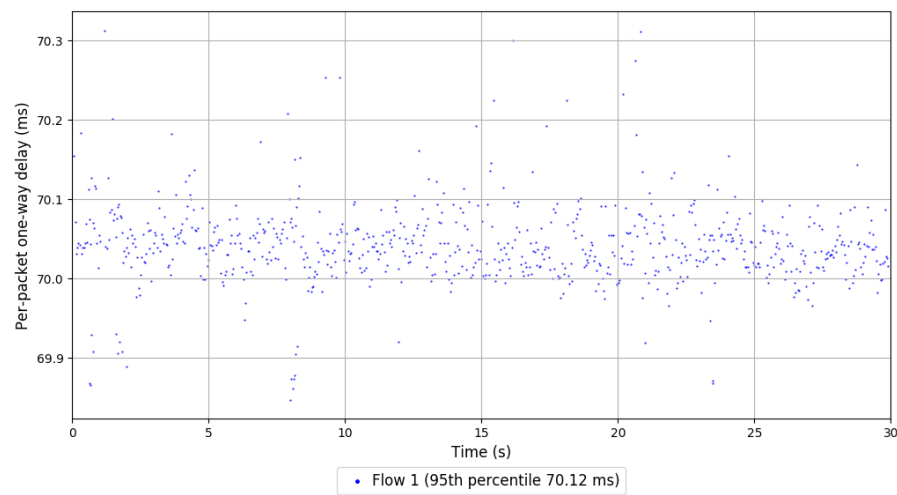
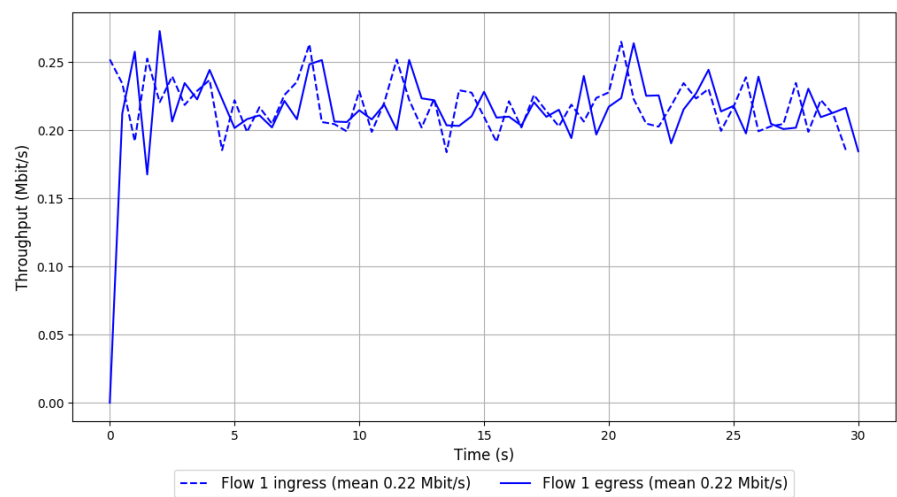


Run 5: Statistics of SCReAM

Start at: 2019-01-19 07:36:11  
End at: 2019-01-19 07:36:41  
Local clock offset: 1.393 ms  
Remote clock offset: -0.389 ms

# Below is generated by plot.py at 2019-01-19 07:57:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 70.117 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 70.117 ms  
Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-19 05:45:44

End at: 2019-01-19 05:46:14

Local clock offset: 0.89 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-01-19 07:57:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 79.007 ms

Loss rate: 0.35%

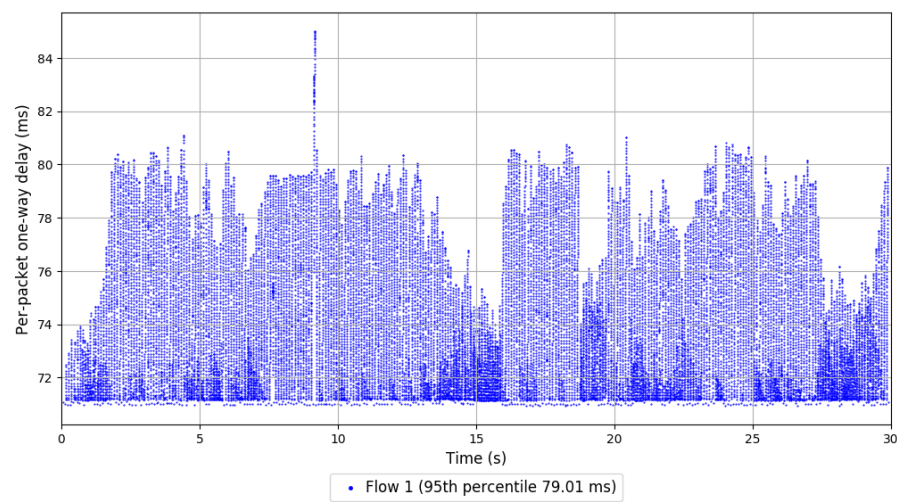
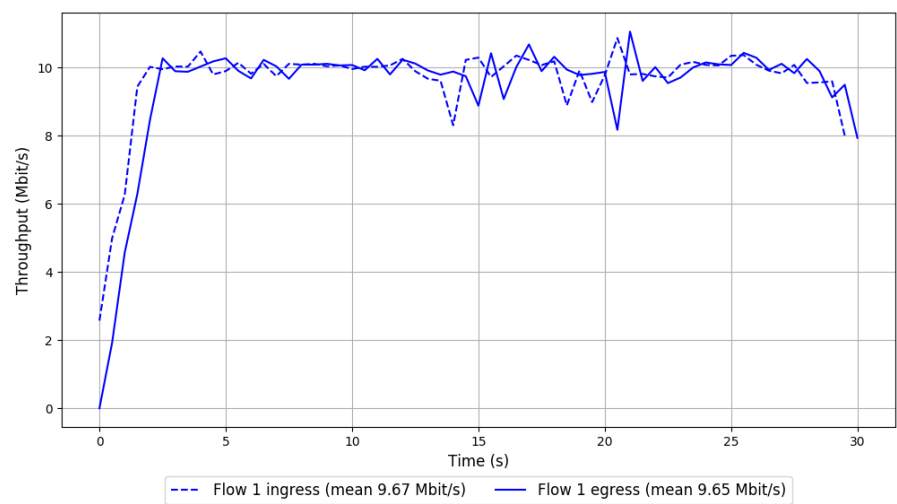
-- Flow 1:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 79.007 ms

Loss rate: 0.35%

Run 1: Report of Sprout — Data Link





Run 2: Statistics of Sprout

Start at: 2019-01-19 06:15:55

End at: 2019-01-19 06:16:25

Local clock offset: -0.225 ms

Remote clock offset: 0.34 ms

# Below is generated by plot.py at 2019-01-19 07:57:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.63 Mbit/s

95th percentile per-packet one-way delay: 77.888 ms

Loss rate: 0.00%

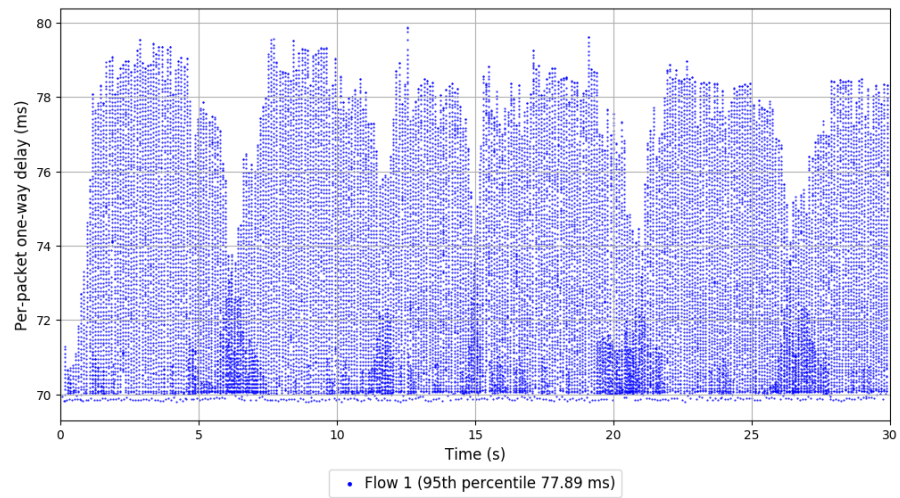
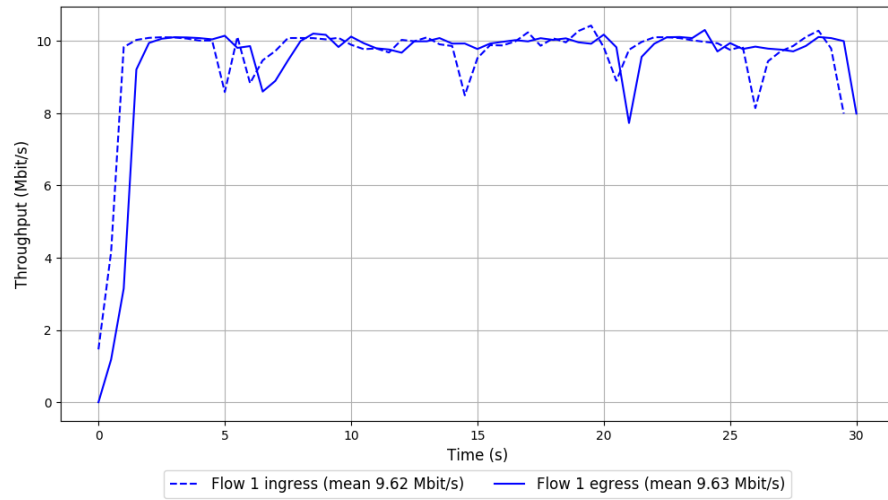
-- Flow 1:

Average throughput: 9.63 Mbit/s

95th percentile per-packet one-way delay: 77.888 ms

Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

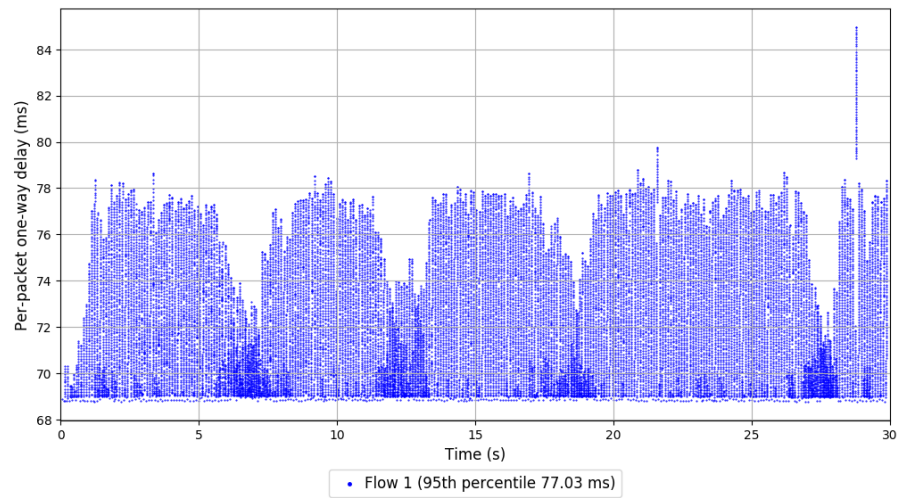
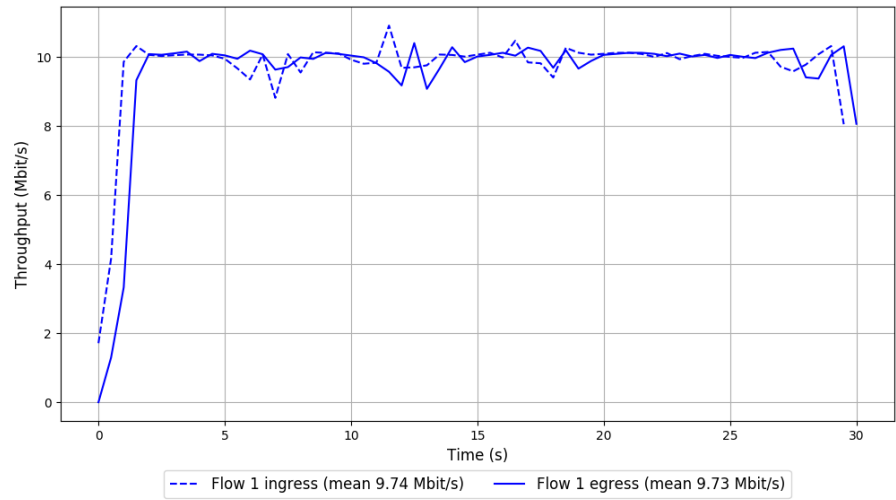


Run 3: Statistics of Sprout

Start at: 2019-01-19 06:45:12  
End at: 2019-01-19 06:45:42  
Local clock offset: 1.14 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-19 07:57:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.73 Mbit/s  
95th percentile per-packet one-way delay: 77.034 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 9.73 Mbit/s  
95th percentile per-packet one-way delay: 77.034 ms  
Loss rate: 0.35%

### Run 3: Report of Sprout — Data Link

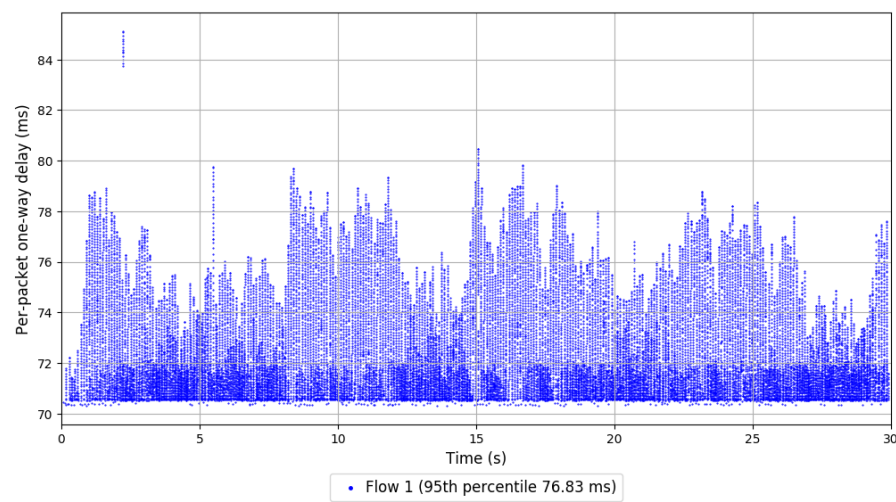
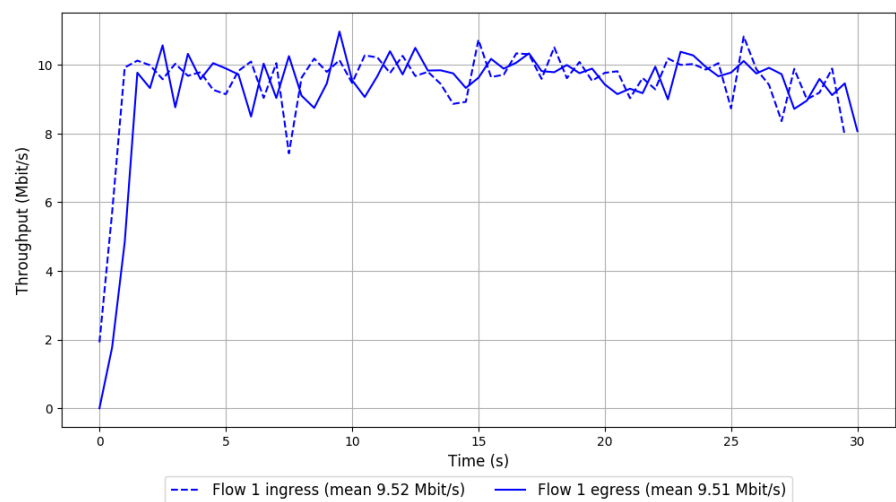


Run 4: Statistics of Sprout

Start at: 2019-01-19 07:14:56  
End at: 2019-01-19 07:15:26  
Local clock offset: 1.455 ms  
Remote clock offset: -1.025 ms

# Below is generated by plot.py at 2019-01-19 07:57:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.51 Mbit/s  
95th percentile per-packet one-way delay: 76.835 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 9.51 Mbit/s  
95th percentile per-packet one-way delay: 76.835 ms  
Loss rate: 0.30%

Run 4: Report of Sprout — Data Link

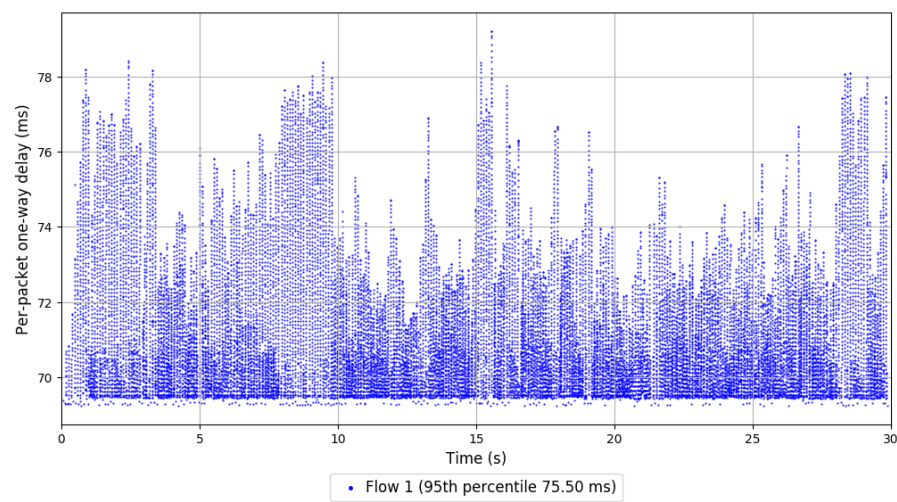
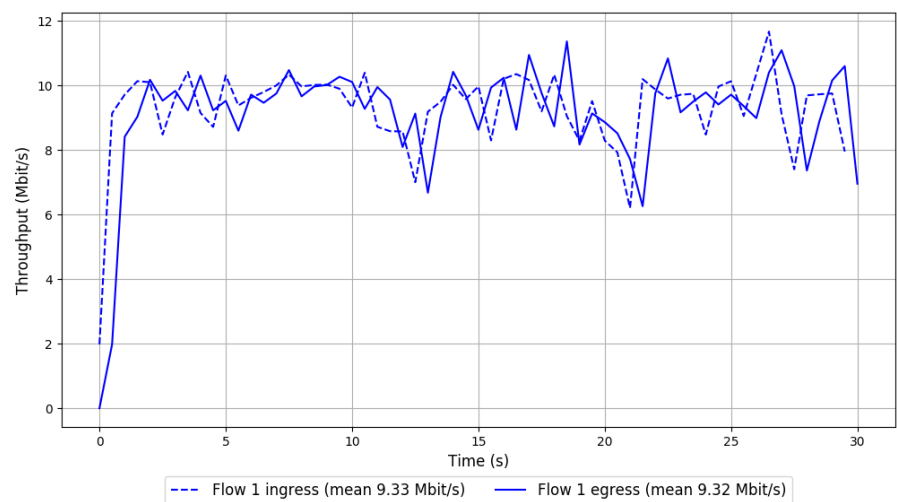


Run 5: Statistics of Sprout

Start at: 2019-01-19 07:42:11  
End at: 2019-01-19 07:42:41  
Local clock offset: -0.251 ms  
Remote clock offset: -1.481 ms

# Below is generated by plot.py at 2019-01-19 07:57:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.32 Mbit/s  
95th percentile per-packet one-way delay: 75.497 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 9.32 Mbit/s  
95th percentile per-packet one-way delay: 75.497 ms  
Loss rate: 0.35%

Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-01-19 05:21:47

End at: 2019-01-19 05:22:17

Local clock offset: -1.048 ms

Remote clock offset: 2.273 ms

# Below is generated by plot.py at 2019-01-19 07:58:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.88 Mbit/s

95th percentile per-packet one-way delay: 79.659 ms

Loss rate: 0.27%

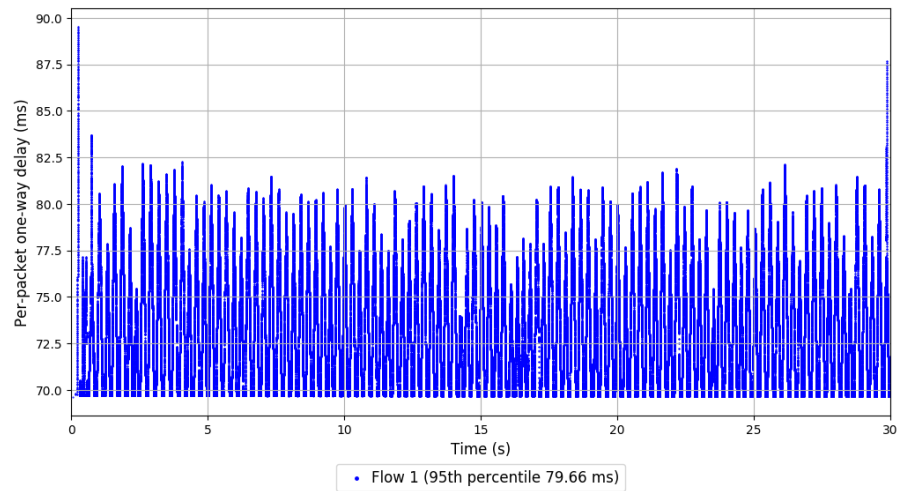
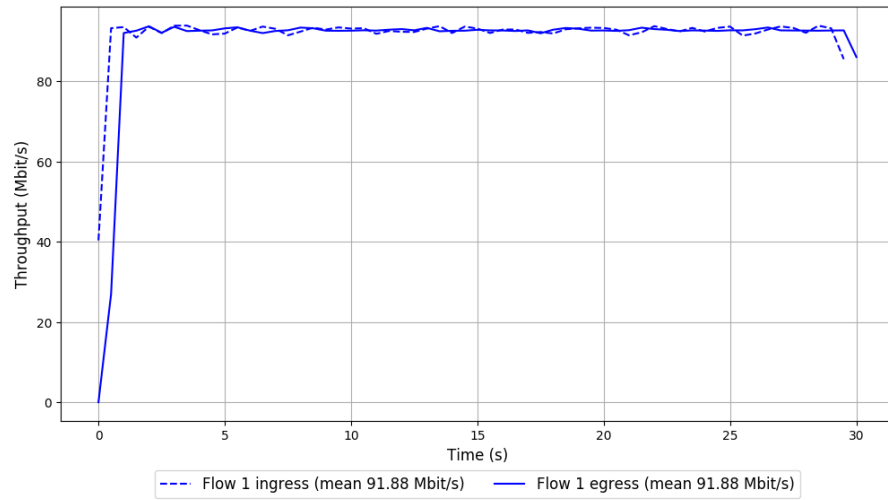
-- Flow 1:

Average throughput: 91.88 Mbit/s

95th percentile per-packet one-way delay: 79.659 ms

Loss rate: 0.27%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-19 05:52:52

End at: 2019-01-19 05:53:22

Local clock offset: -0.685 ms

Remote clock offset: 0.963 ms

# Below is generated by plot.py at 2019-01-19 07:58:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.71 Mbit/s

95th percentile per-packet one-way delay: 78.009 ms

Loss rate: 0.25%

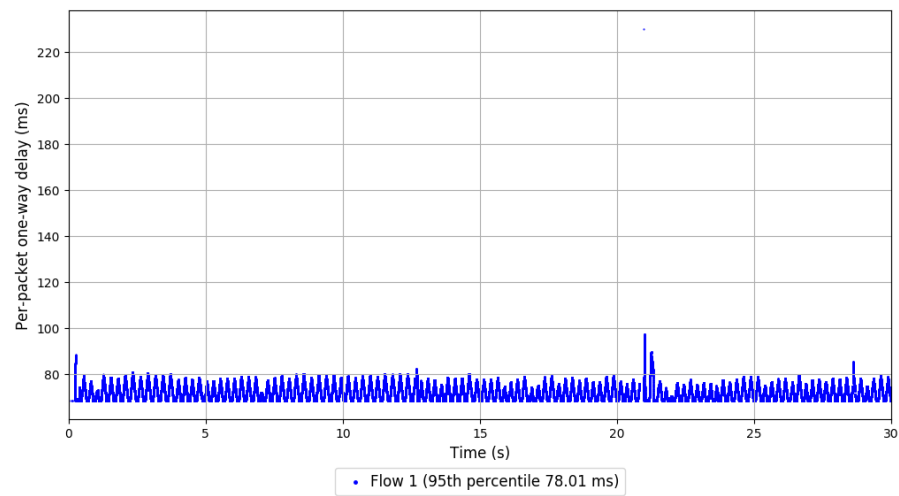
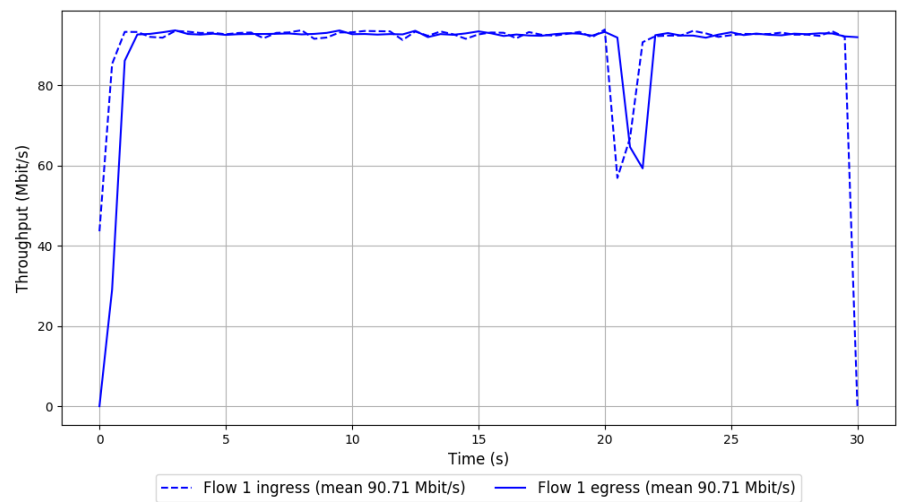
-- Flow 1:

Average throughput: 90.71 Mbit/s

95th percentile per-packet one-way delay: 78.009 ms

Loss rate: 0.25%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-19 06:22:23

End at: 2019-01-19 06:22:53

Local clock offset: 1.211 ms

Remote clock offset: 0.418 ms

# Below is generated by plot.py at 2019-01-19 07:58:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 80.275 ms

Loss rate: 0.26%

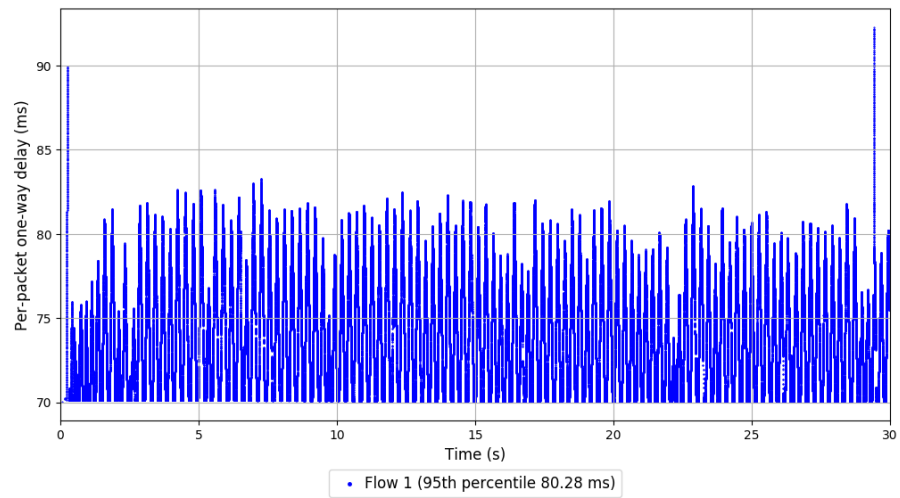
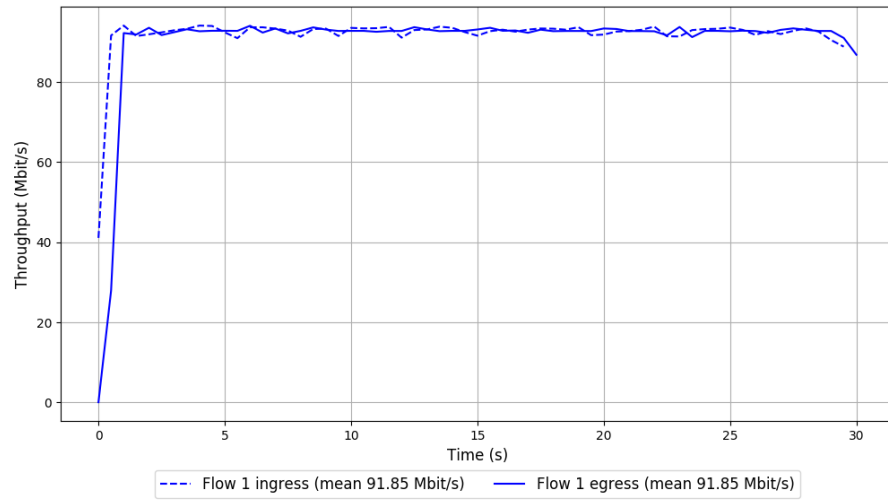
-- Flow 1:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 80.275 ms

Loss rate: 0.26%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-19 06:52:04

End at: 2019-01-19 06:52:34

Local clock offset: 2.395 ms

Remote clock offset: -2.461 ms

# Below is generated by plot.py at 2019-01-19 07:58:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.26 Mbit/s

95th percentile per-packet one-way delay: 74.924 ms

Loss rate: 0.24%

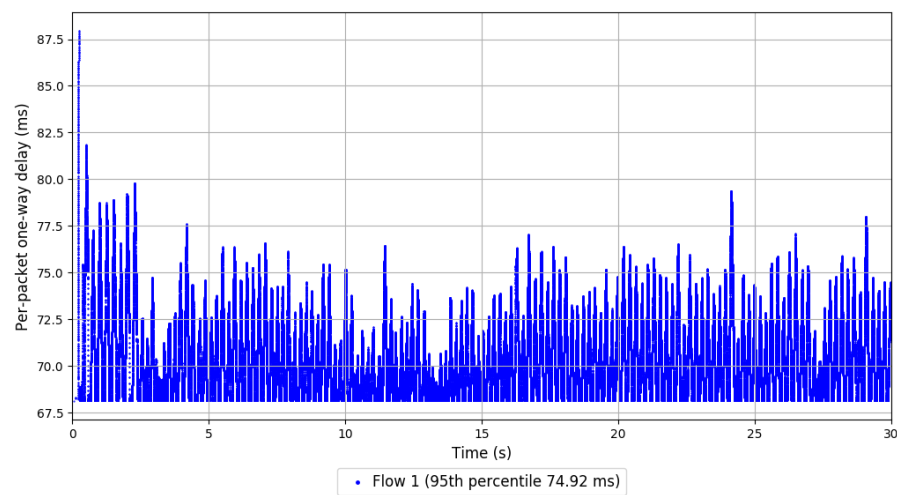
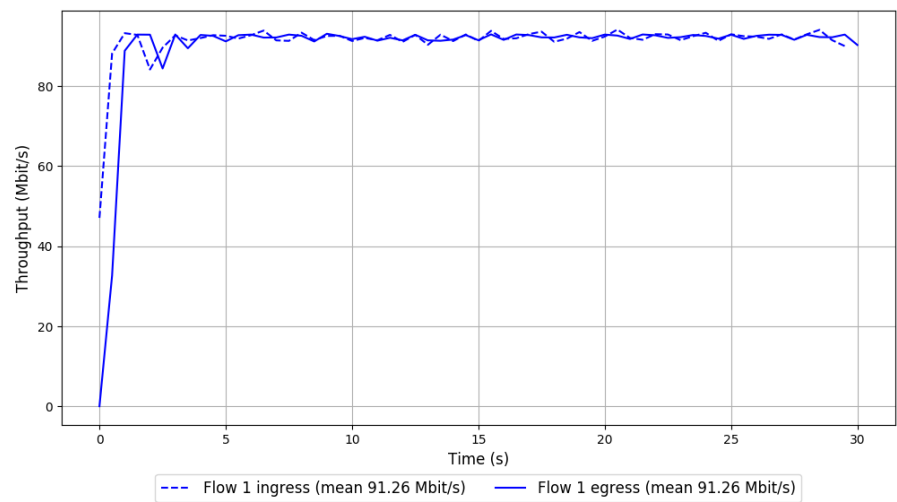
-- Flow 1:

Average throughput: 91.26 Mbit/s

95th percentile per-packet one-way delay: 74.924 ms

Loss rate: 0.24%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-19 07:21:14

End at: 2019-01-19 07:21:44

Local clock offset: 0.101 ms

Remote clock offset: -1.101 ms

# Below is generated by plot.py at 2019-01-19 07:59:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 78.018 ms

Loss rate: 0.25%

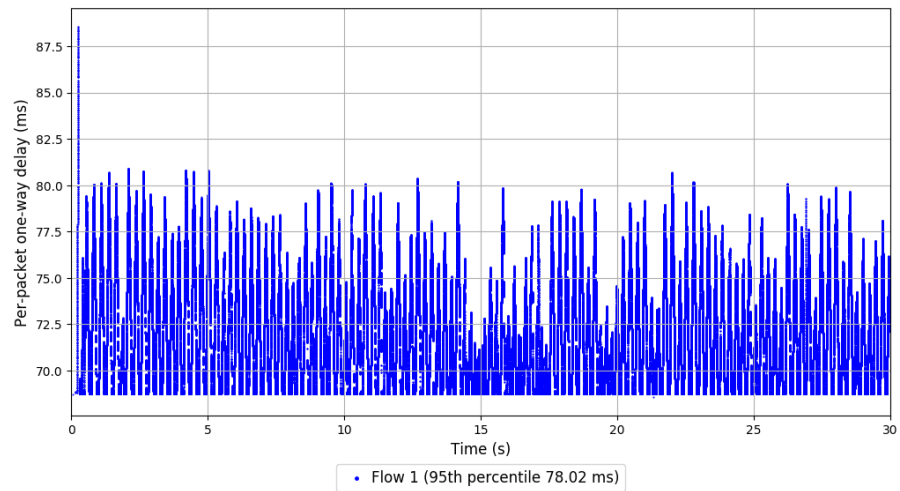
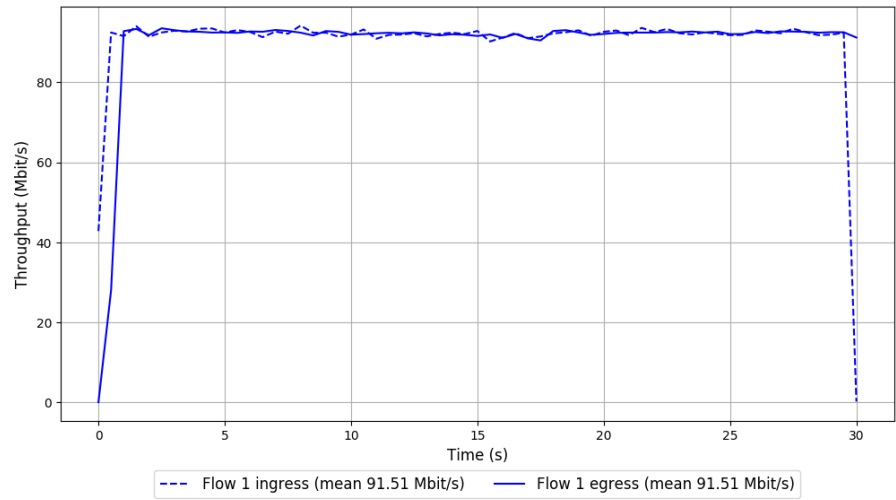
-- Flow 1:

Average throughput: 91.51 Mbit/s

95th percentile per-packet one-way delay: 78.018 ms

Loss rate: 0.25%

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

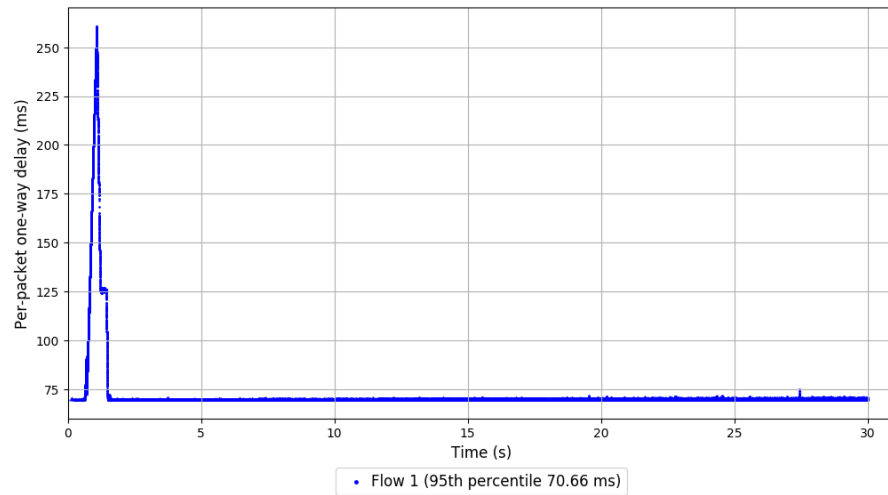
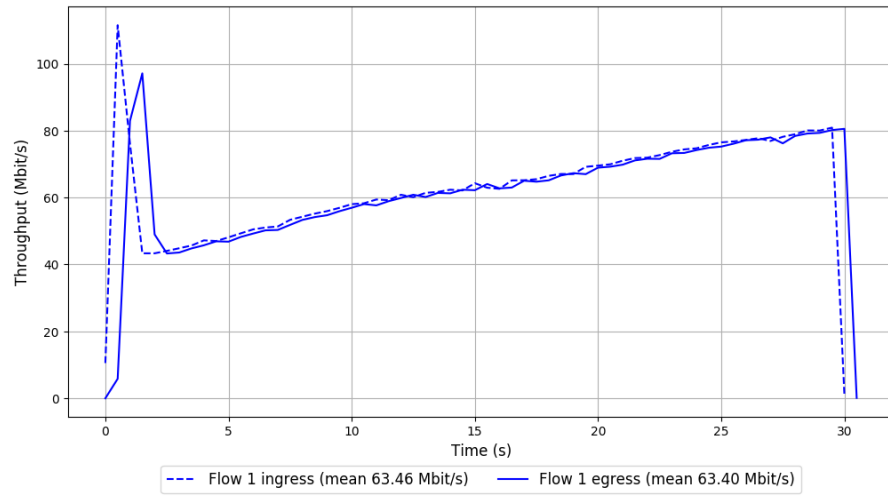


Run 1: Statistics of TCP Vegas

Start at: 2019-01-19 05:30:11  
End at: 2019-01-19 05:30:41  
Local clock offset: -0.679 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-01-19 07:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 63.40 Mbit/s  
95th percentile per-packet one-way delay: 70.662 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 63.40 Mbit/s  
95th percentile per-packet one-way delay: 70.662 ms  
Loss rate: 0.35%

### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-19 06:00:44

End at: 2019-01-19 06:01:14

Local clock offset: 0.807 ms

Remote clock offset: 0.966 ms

# Below is generated by plot.py at 2019-01-19 07:59:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.53 Mbit/s

95th percentile per-packet one-way delay: 71.368 ms

Loss rate: 0.34%

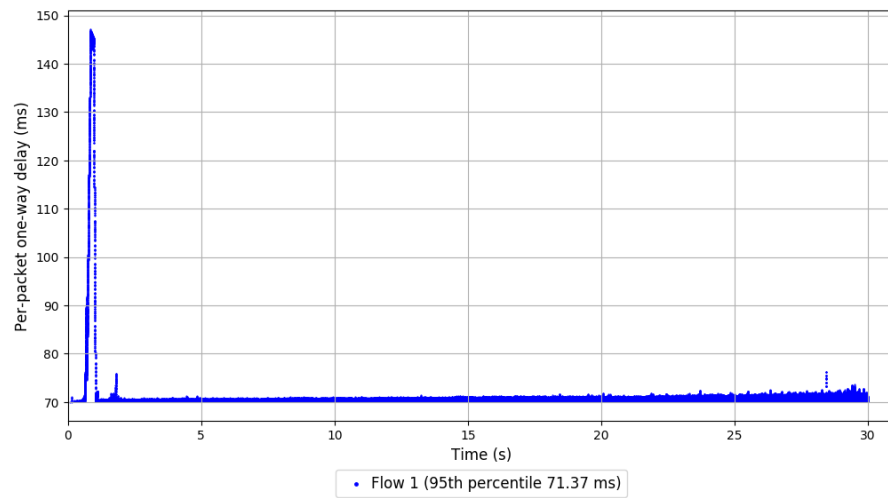
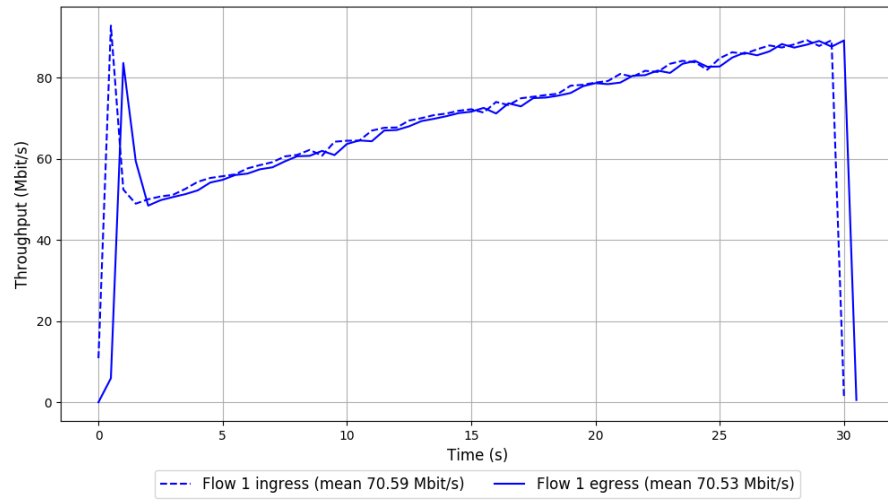
-- Flow 1:

Average throughput: 70.53 Mbit/s

95th percentile per-packet one-way delay: 71.368 ms

Loss rate: 0.34%

## Run 2: Report of TCP Vegas — Data Link

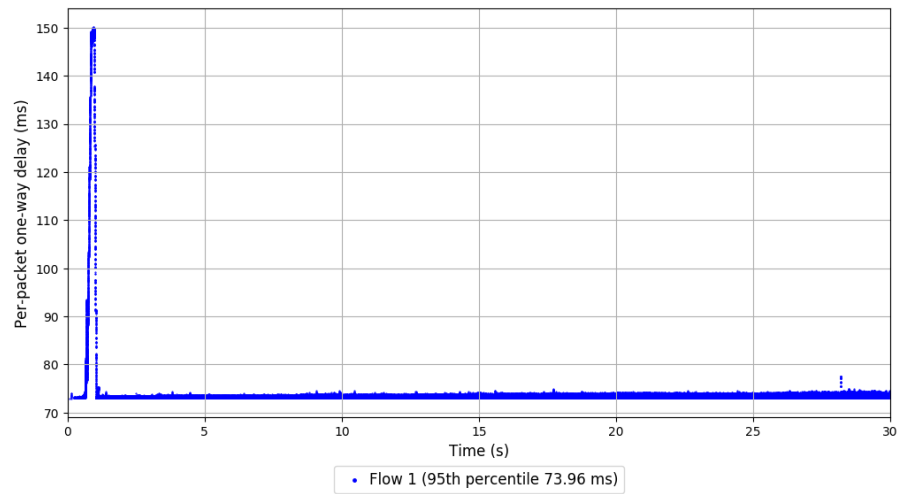
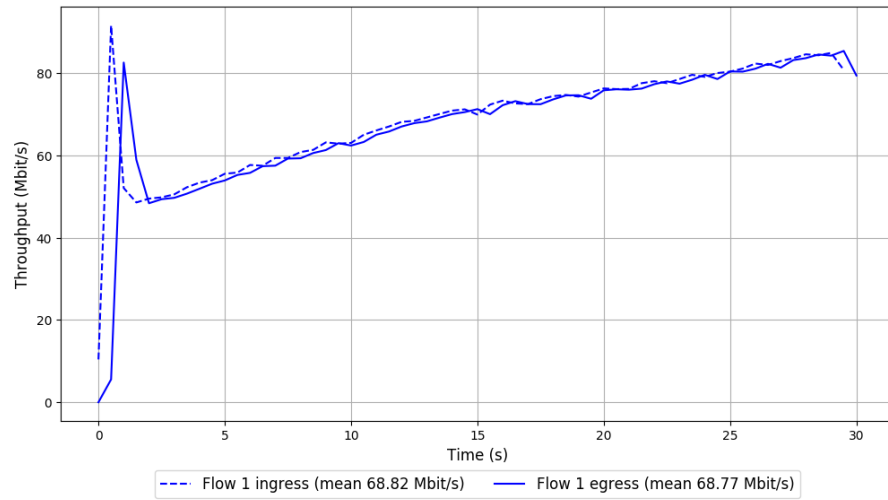


Run 3: Statistics of TCP Vegas

Start at: 2019-01-19 06:29:50  
End at: 2019-01-19 06:30:20  
Local clock offset: 3.823 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-01-19 07:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.77 Mbit/s  
95th percentile per-packet one-way delay: 73.959 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 68.77 Mbit/s  
95th percentile per-packet one-way delay: 73.959 ms  
Loss rate: 0.33%

### Run 3: Report of TCP Vegas — Data Link



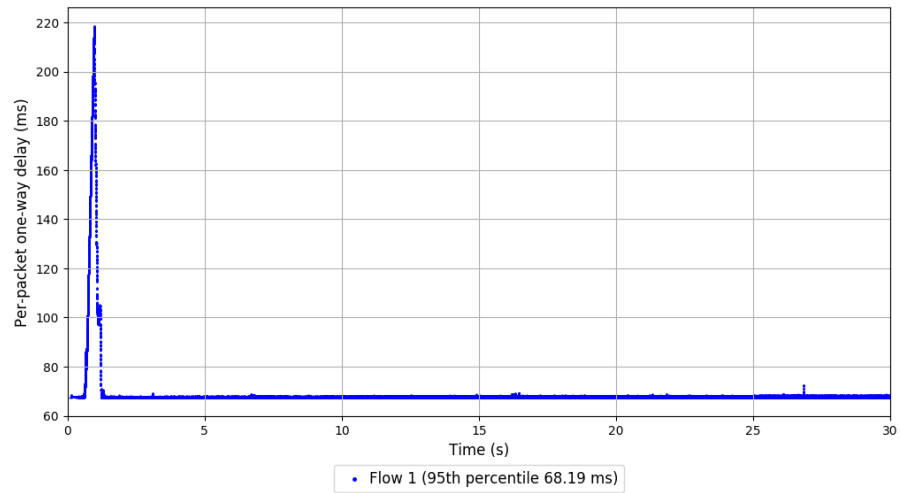
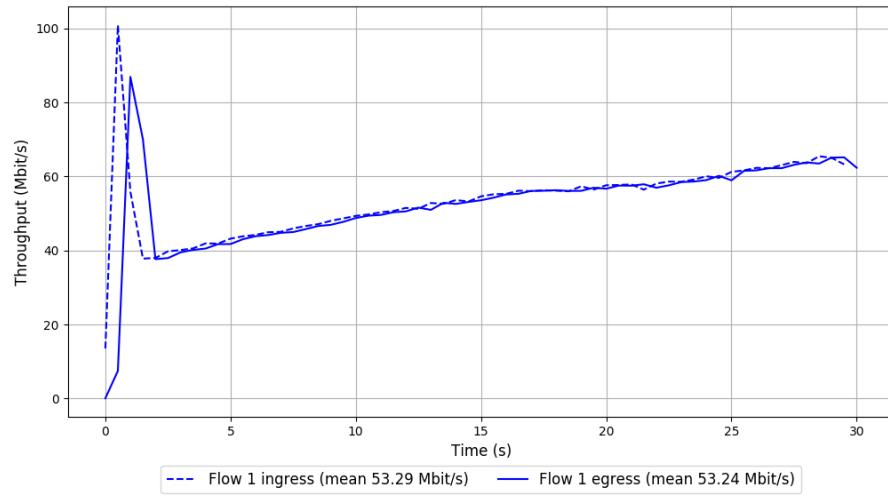


Run 4: Statistics of TCP Vegas

Start at: 2019-01-19 07:00:09  
End at: 2019-01-19 07:00:39  
Local clock offset: 1.534 ms  
Remote clock offset: -2.711 ms

# Below is generated by plot.py at 2019-01-19 07:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 53.24 Mbit/s  
95th percentile per-packet one-way delay: 68.188 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 53.24 Mbit/s  
95th percentile per-packet one-way delay: 68.188 ms  
Loss rate: 0.33%

#### Run 4: Report of TCP Vegas — Data Link

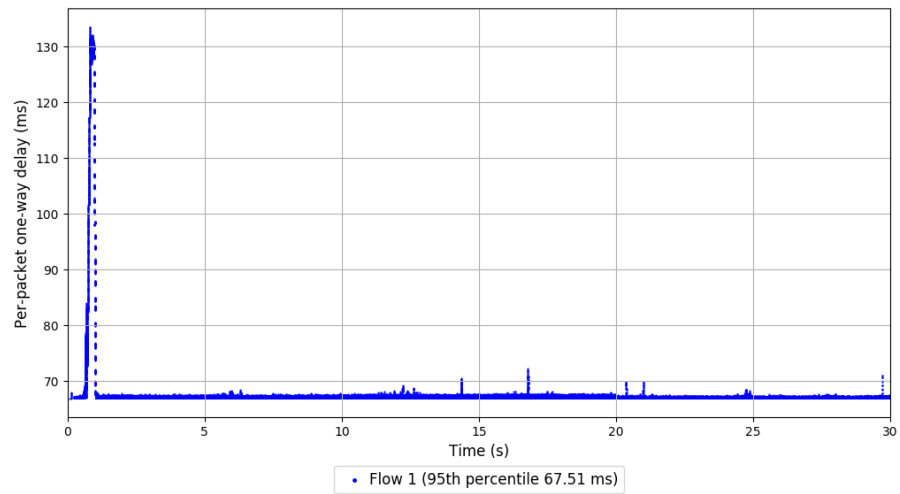
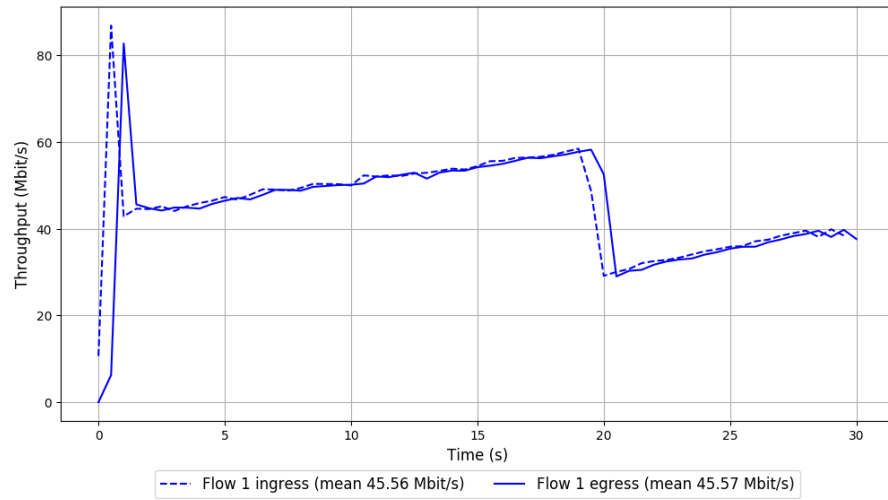


Run 5: Statistics of TCP Vegas

Start at: 2019-01-19 07:28:26  
End at: 2019-01-19 07:28:56  
Local clock offset: 0.498 ms  
Remote clock offset: -1.219 ms

# Below is generated by plot.py at 2019-01-19 07:59:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 45.57 Mbit/s  
95th percentile per-packet one-way delay: 67.511 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 45.57 Mbit/s  
95th percentile per-packet one-way delay: 67.511 ms  
Loss rate: 0.23%

### Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-01-19 05:40:58

End at: 2019-01-19 05:41:28

Local clock offset: 0.89 ms

Remote clock offset: 0.993 ms

# Below is generated by plot.py at 2019-01-19 07:59:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 76.54 Mbit/s

95th percentile per-packet one-way delay: 112.949 ms

Loss rate: 0.21%

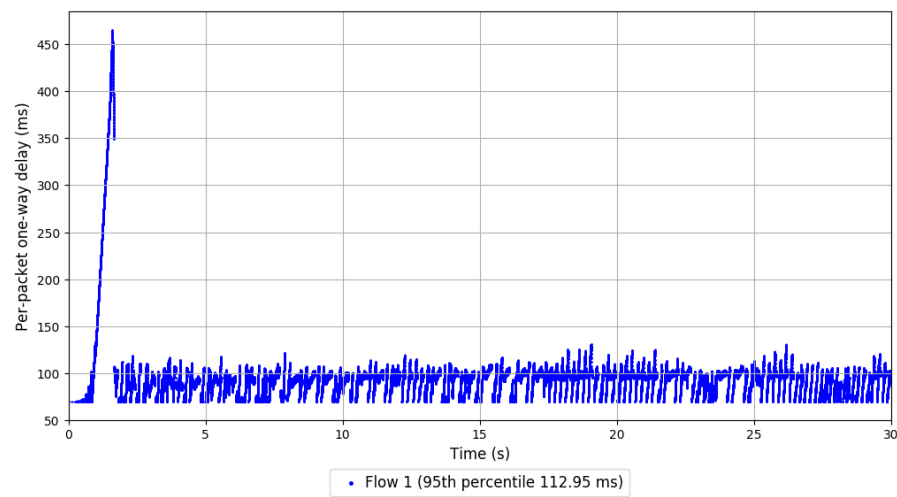
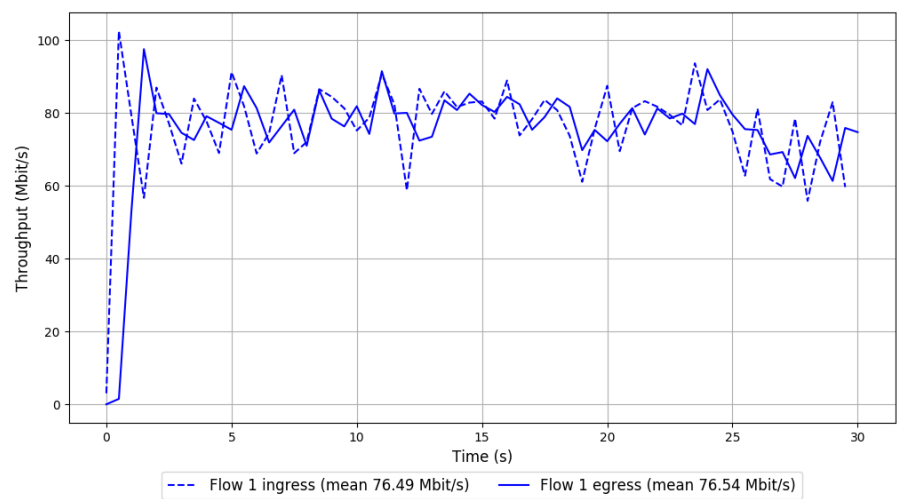
-- Flow 1:

Average throughput: 76.54 Mbit/s

95th percentile per-packet one-way delay: 112.949 ms

Loss rate: 0.21%

Run 1: Report of Verus — Data Link

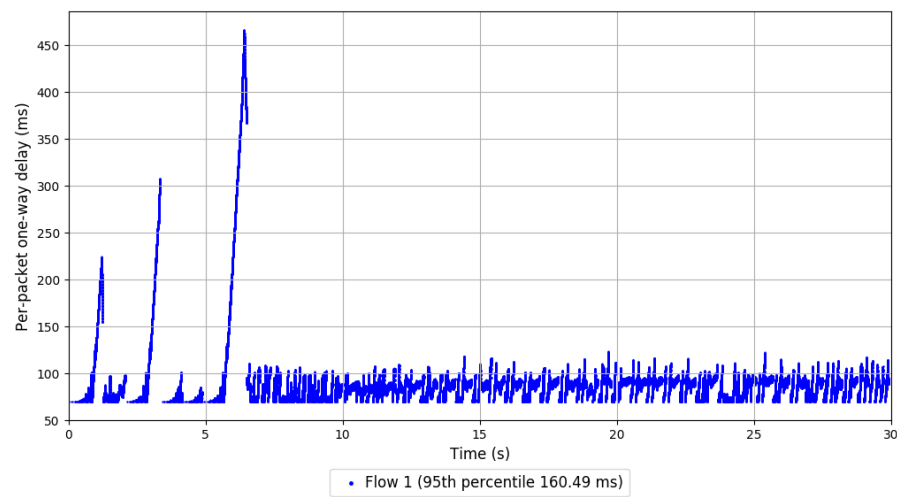
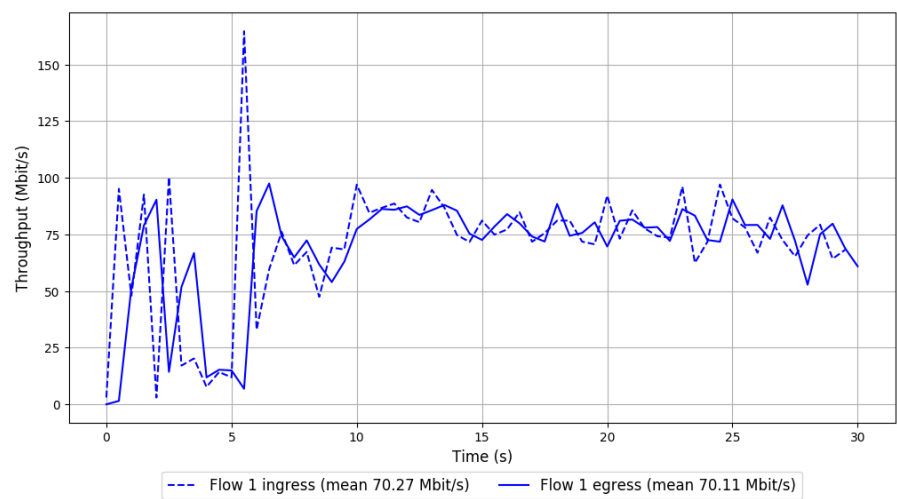


Run 2: Statistics of Verus

Start at: 2019-01-19 06:11:34  
End at: 2019-01-19 06:12:04  
Local clock offset: -0.217 ms  
Remote clock offset: 0.372 ms

# Below is generated by plot.py at 2019-01-19 07:59:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.11 Mbit/s  
95th percentile per-packet one-way delay: 160.489 ms  
Loss rate: 0.67%  
-- Flow 1:  
Average throughput: 70.11 Mbit/s  
95th percentile per-packet one-way delay: 160.489 ms  
Loss rate: 0.67%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-01-19 06:40:27

End at: 2019-01-19 06:40:57

Local clock offset: 1.732 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2019-01-19 07:59:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.91 Mbit/s

95th percentile per-packet one-way delay: 110.933 ms

Loss rate: 0.48%

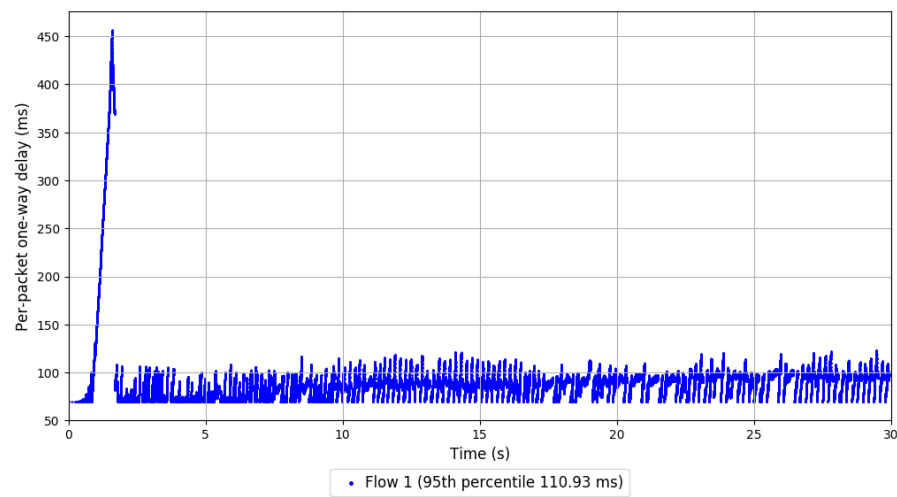
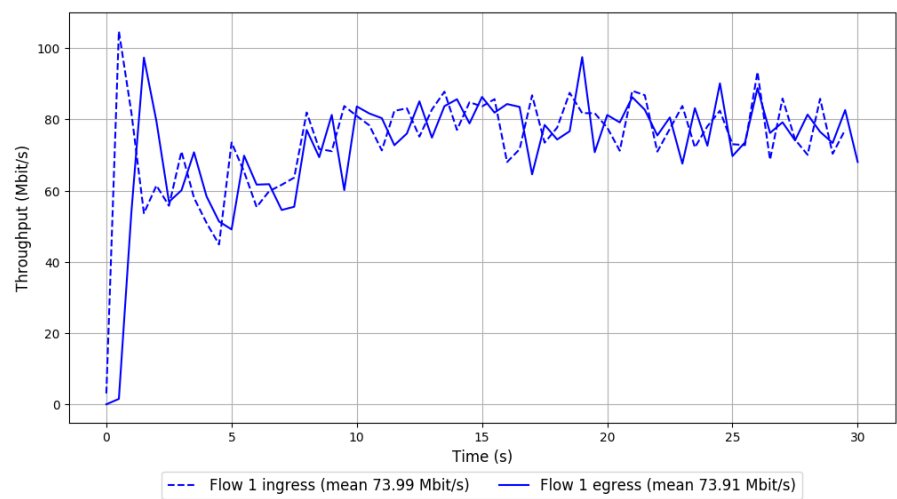
-- Flow 1:

Average throughput: 73.91 Mbit/s

95th percentile per-packet one-way delay: 110.933 ms

Loss rate: 0.48%

Run 3: Report of Verus — Data Link

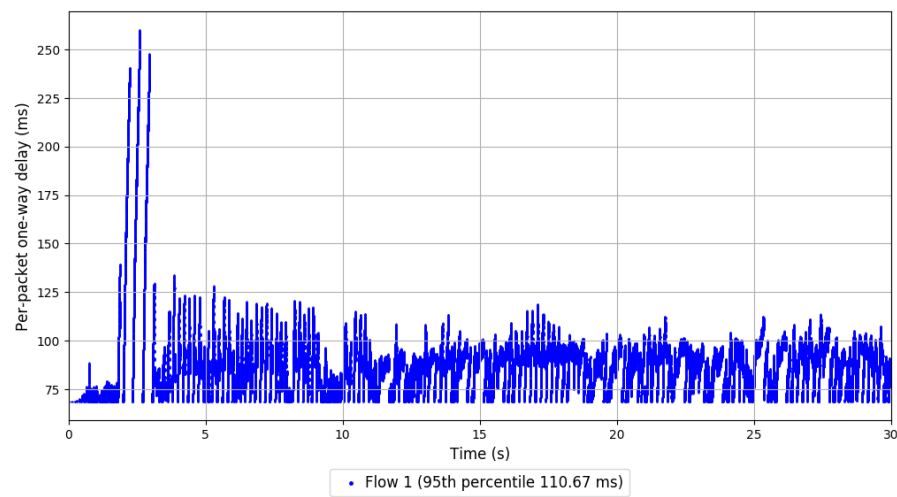
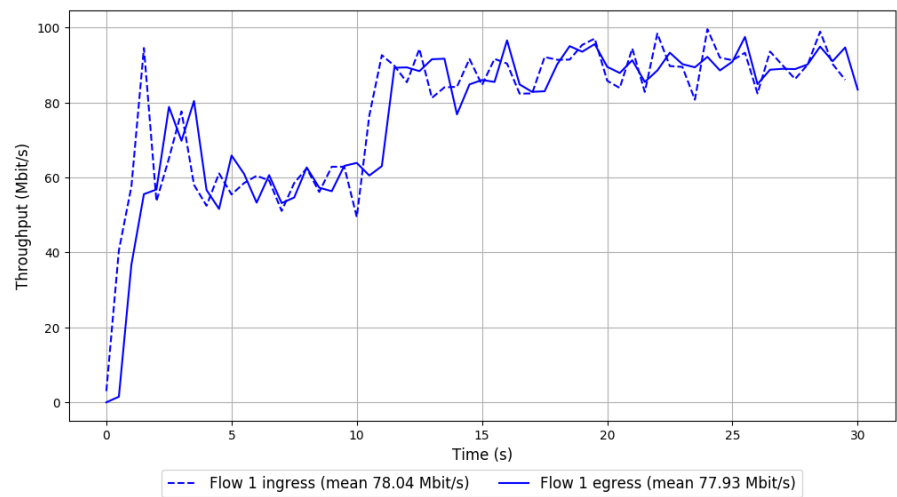


Run 4: Statistics of Verus

Start at: 2019-01-19 07:10:20  
End at: 2019-01-19 07:10:50  
Local clock offset: -0.42 ms  
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2019-01-19 07:59:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.93 Mbit/s  
95th percentile per-packet one-way delay: 110.666 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 77.93 Mbit/s  
95th percentile per-packet one-way delay: 110.666 ms  
Loss rate: 0.41%

Run 4: Report of Verus — Data Link

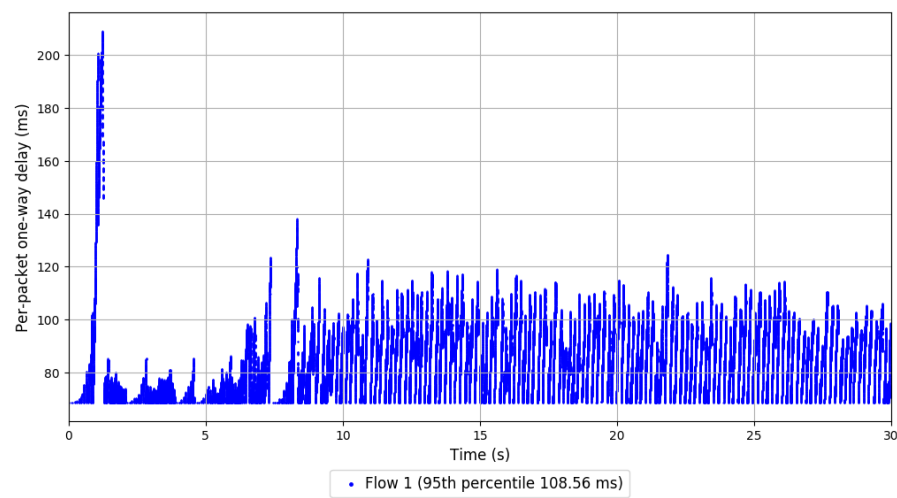
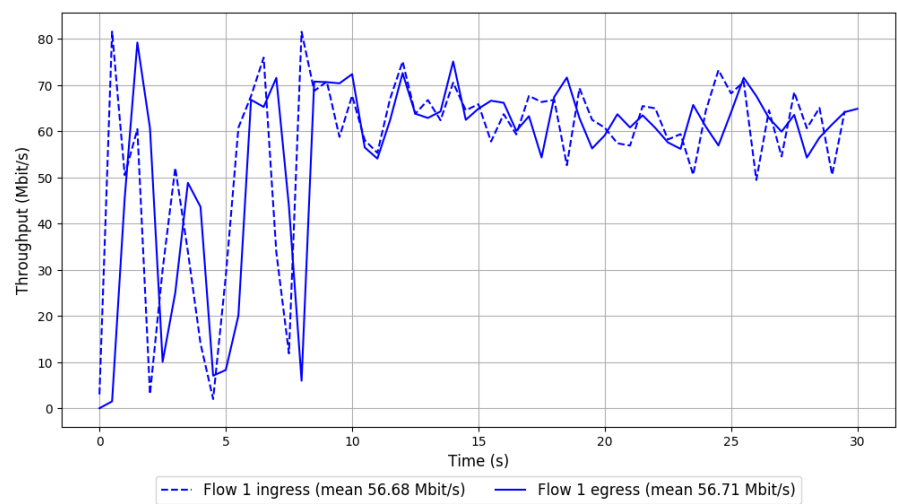


Run 5: Statistics of Verus

Start at: 2019-01-19 07:38:34  
End at: 2019-01-19 07:39:04  
Local clock offset: 0.199 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-01-19 07:59:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 56.71 Mbit/s  
95th percentile per-packet one-way delay: 108.563 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 56.71 Mbit/s  
95th percentile per-packet one-way delay: 108.563 ms  
Loss rate: 0.20%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-19 05:44:12

End at: 2019-01-19 05:44:42

Local clock offset: 1.027 ms

Remote clock offset: 1.48 ms

# Below is generated by plot.py at 2019-01-19 07:59:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 75.664 ms

Loss rate: 0.31%

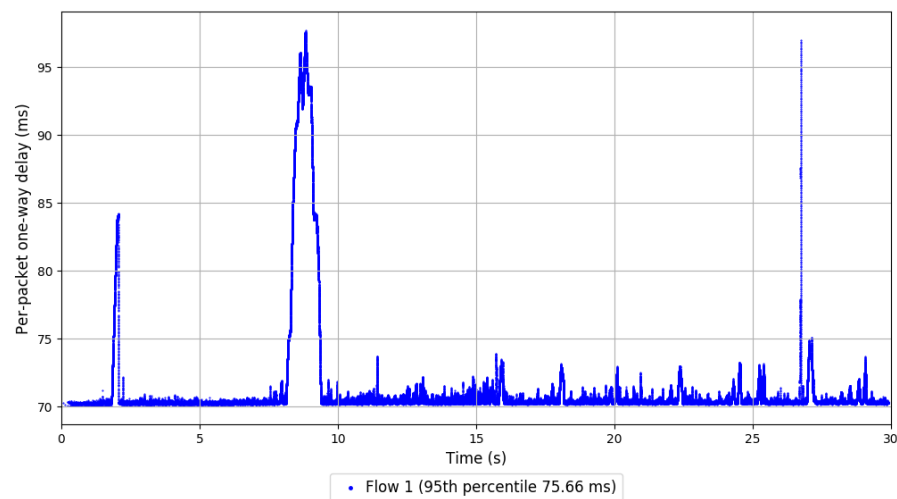
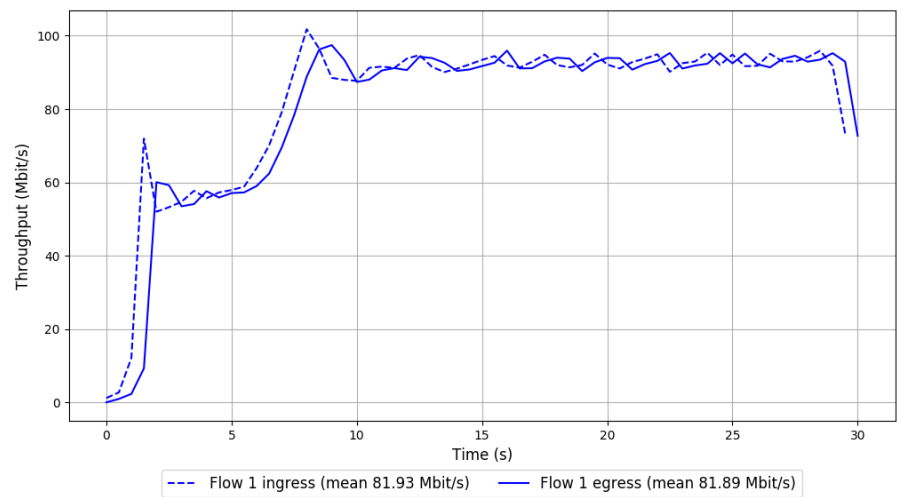
-- Flow 1:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 75.664 ms

Loss rate: 0.31%

Run 1: Report of PCC-Vivace — Data Link



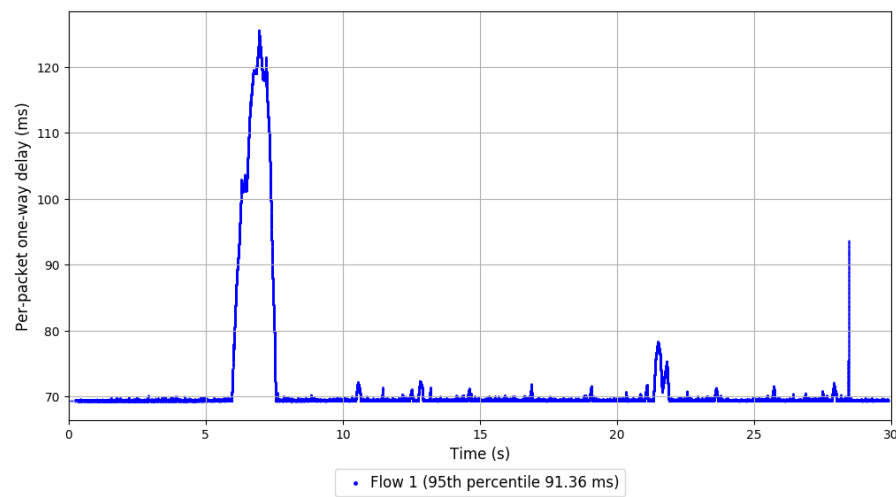
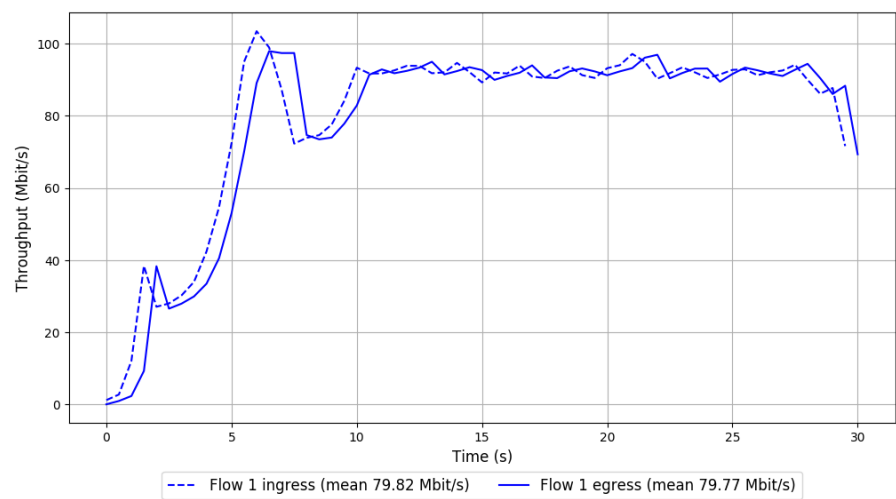


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-19 06:14:33  
End at: 2019-01-19 06:15:03  
Local clock offset: -0.648 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-01-19 07:59:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.77 Mbit/s  
95th percentile per-packet one-way delay: 91.356 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 79.77 Mbit/s  
95th percentile per-packet one-way delay: 91.356 ms  
Loss rate: 0.32%

Run 2: Report of PCC-Vivace — Data Link

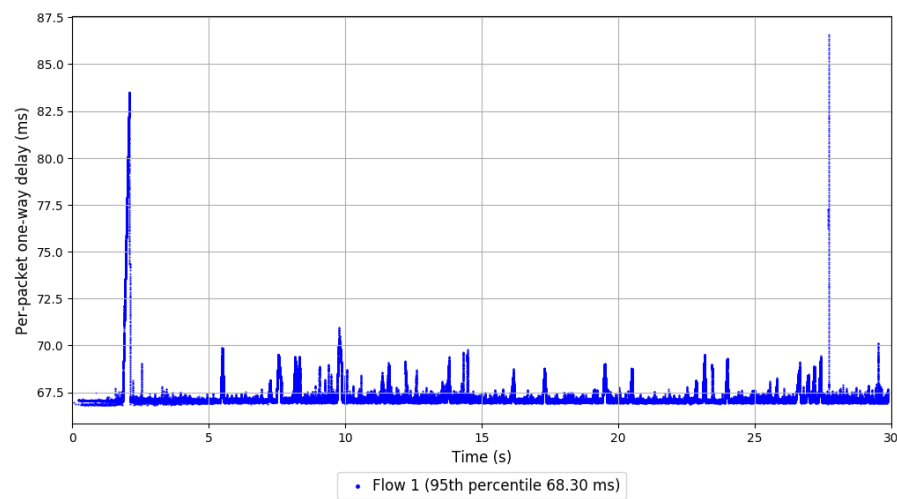
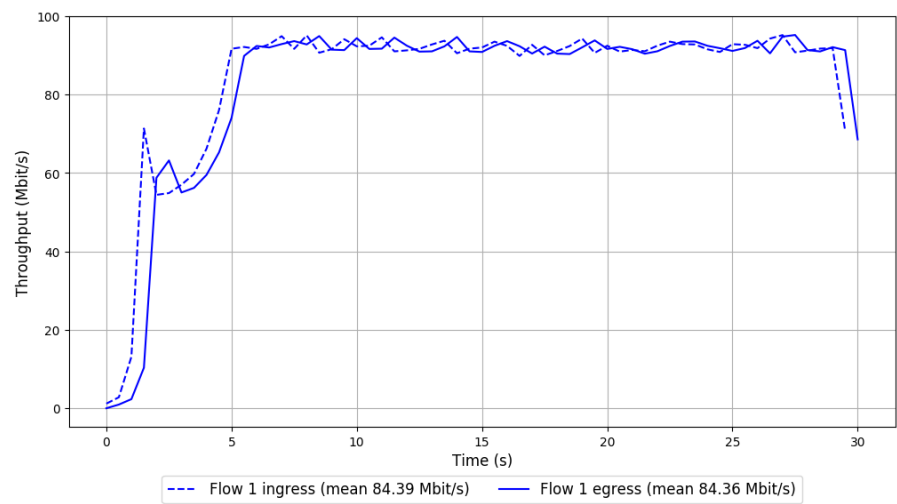


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-19 06:43:40  
End at: 2019-01-19 06:44:10  
Local clock offset: 0.361 ms  
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2019-01-19 07:59:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.36 Mbit/s  
95th percentile per-packet one-way delay: 68.299 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 84.36 Mbit/s  
95th percentile per-packet one-way delay: 68.299 ms  
Loss rate: 0.29%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-19 07:13:20

End at: 2019-01-19 07:13:50

Local clock offset: 0.827 ms

Remote clock offset: -0.345 ms

# Below is generated by plot.py at 2019-01-19 07:59:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 72.802 ms

Loss rate: 0.52%

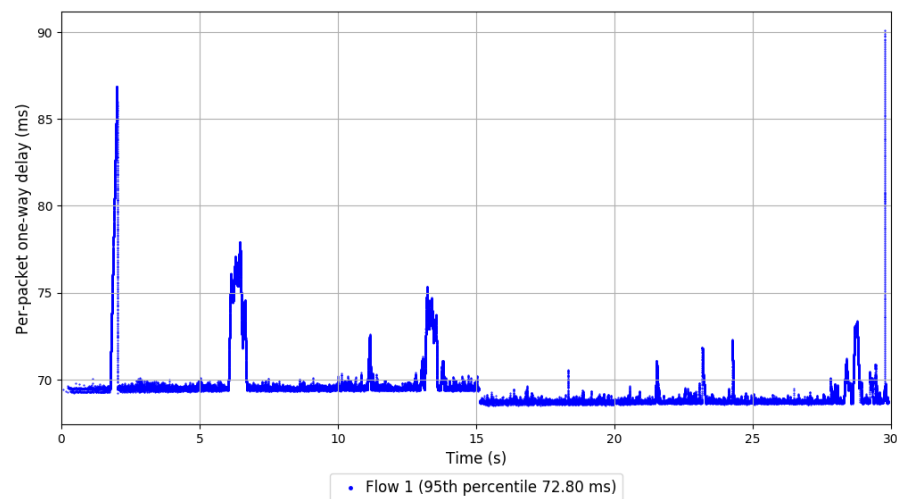
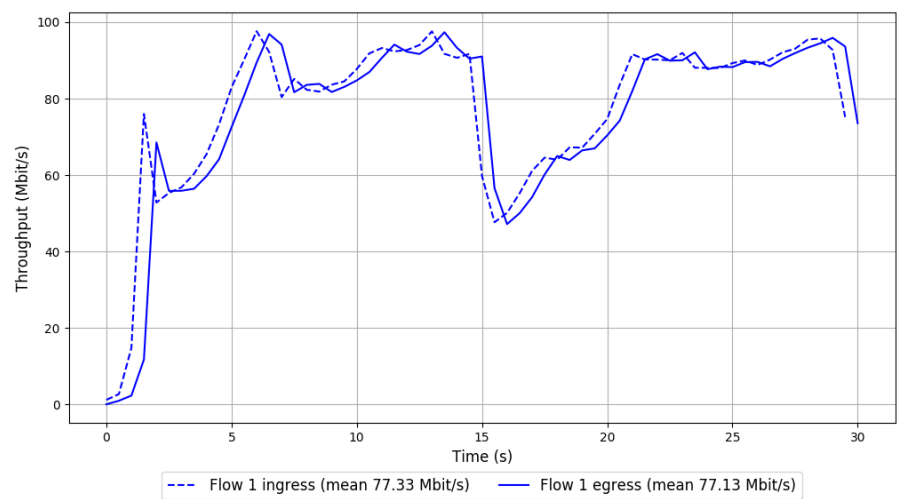
-- Flow 1:

Average throughput: 77.13 Mbit/s

95th percentile per-packet one-way delay: 72.802 ms

Loss rate: 0.52%

Run 4: Report of PCC-Vivace — Data Link

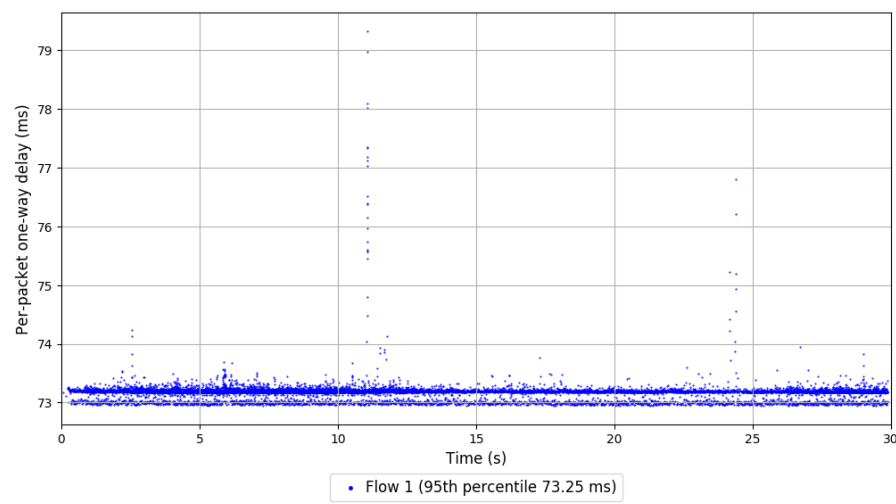
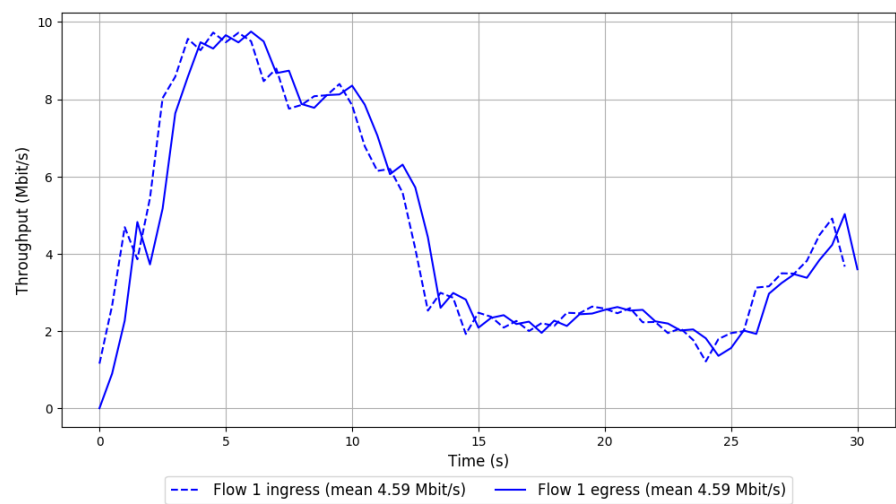


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-19 07:41:00  
End at: 2019-01-19 07:41:30  
Local clock offset: 4.026 ms  
Remote clock offset: -0.962 ms

# Below is generated by plot.py at 2019-01-19 07:59:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.59 Mbit/s  
95th percentile per-packet one-way delay: 73.250 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 4.59 Mbit/s  
95th percentile per-packet one-way delay: 73.250 ms  
Loss rate: 0.27%

Run 5: Report of PCC-Vivace — Data Link





Run 1: Statistics of WebRTC media

Start at: 2019-01-19 05:34:27

End at: 2019-01-19 05:34:57

Local clock offset: 0.975 ms

Remote clock offset: 0.984 ms

# Below is generated by plot.py at 2019-01-19 07:59:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 68.375 ms

Loss rate: 0.26%

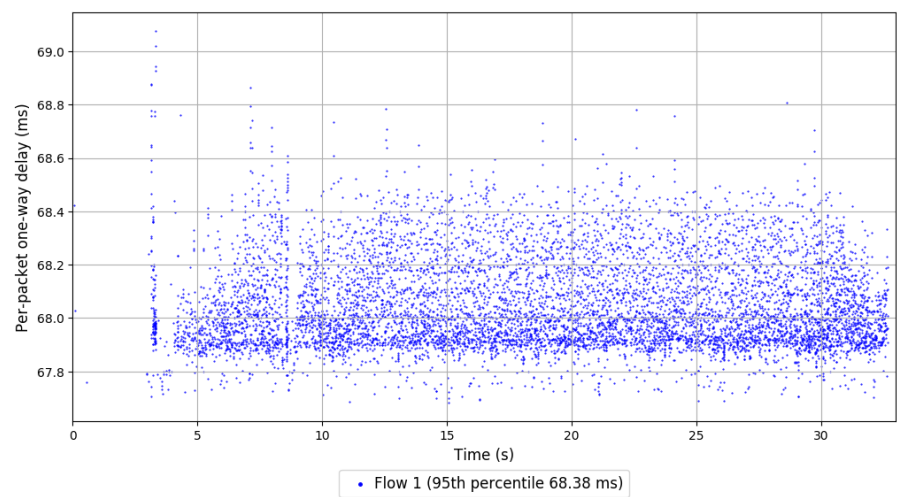
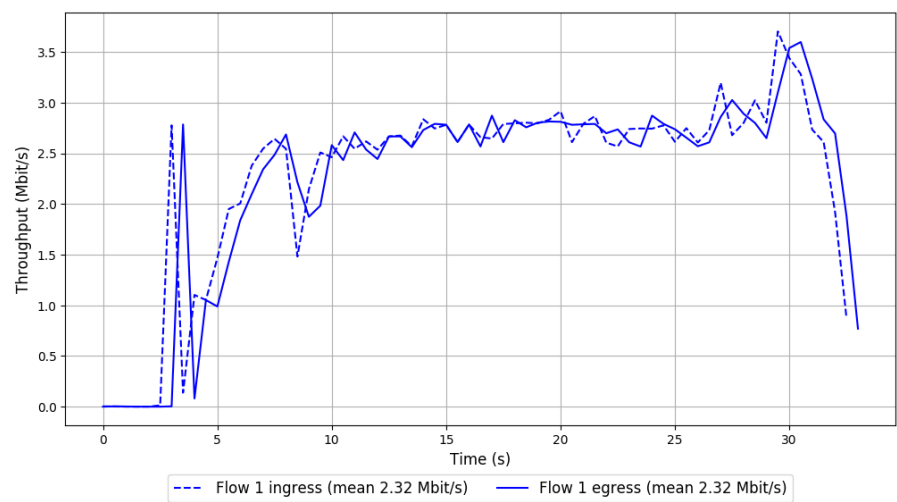
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 68.375 ms

Loss rate: 0.26%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-19 06:04:54

End at: 2019-01-19 06:05:24

Local clock offset: 0.757 ms

Remote clock offset: 0.434 ms

# Below is generated by plot.py at 2019-01-19 07:59:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 70.974 ms

Loss rate: 0.26%

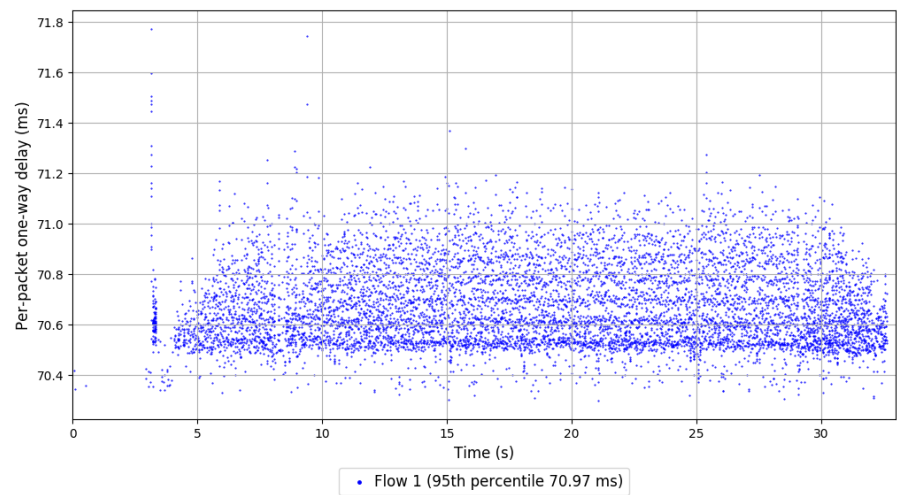
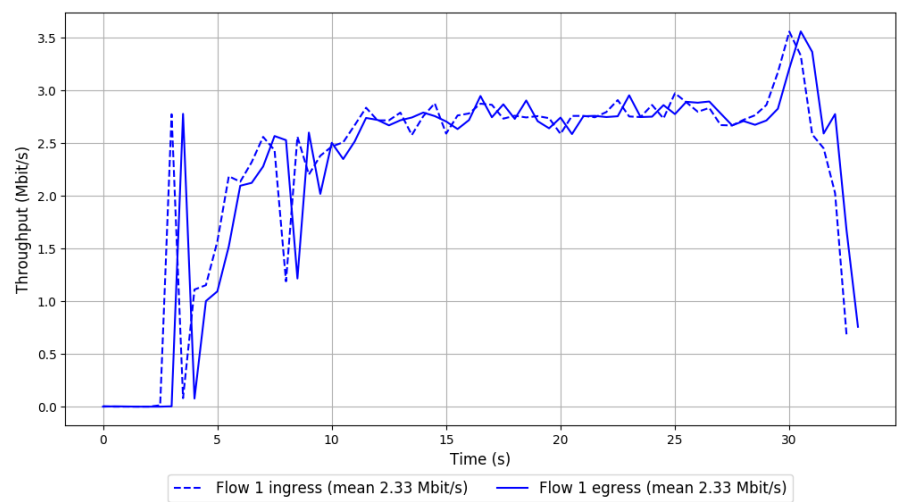
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 70.974 ms

Loss rate: 0.26%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-19 06:33:37

End at: 2019-01-19 06:34:07

Local clock offset: 1.646 ms

Remote clock offset: 0.287 ms

# Below is generated by plot.py at 2019-01-19 07:59:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 70.234 ms

Loss rate: 0.30%

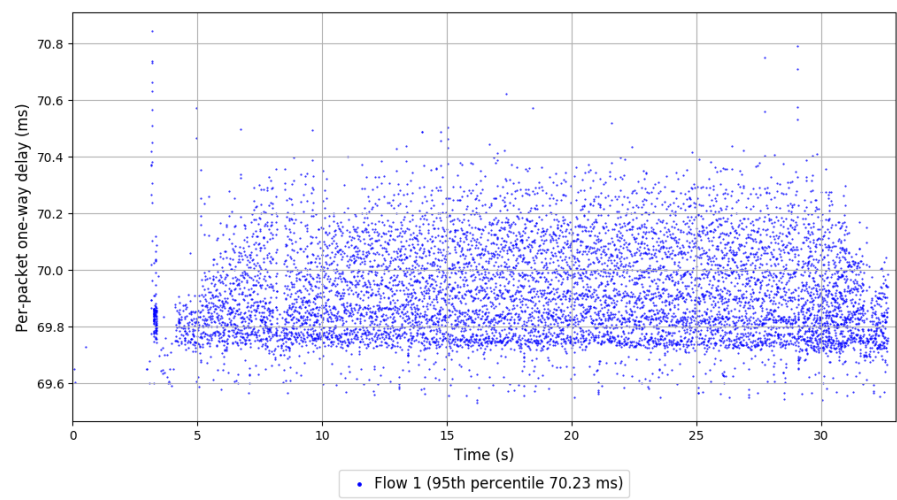
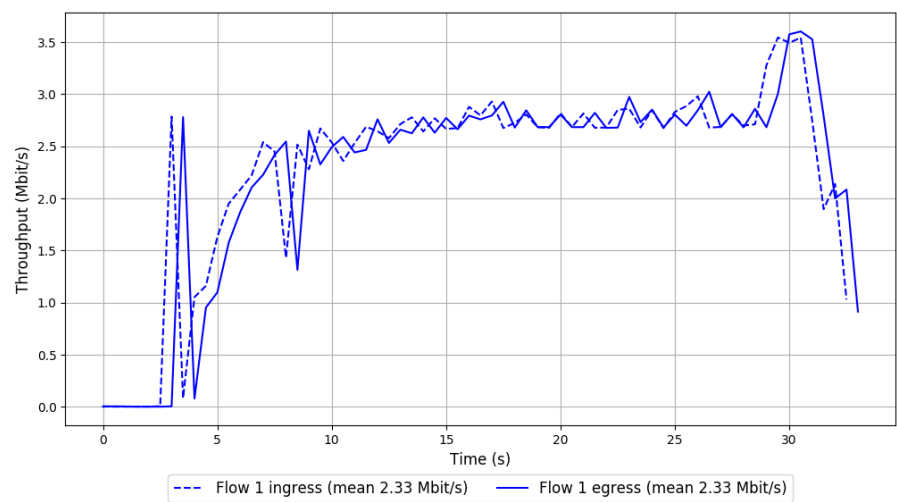
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 70.234 ms

Loss rate: 0.30%

Run 3: Report of WebRTC media — Data Link

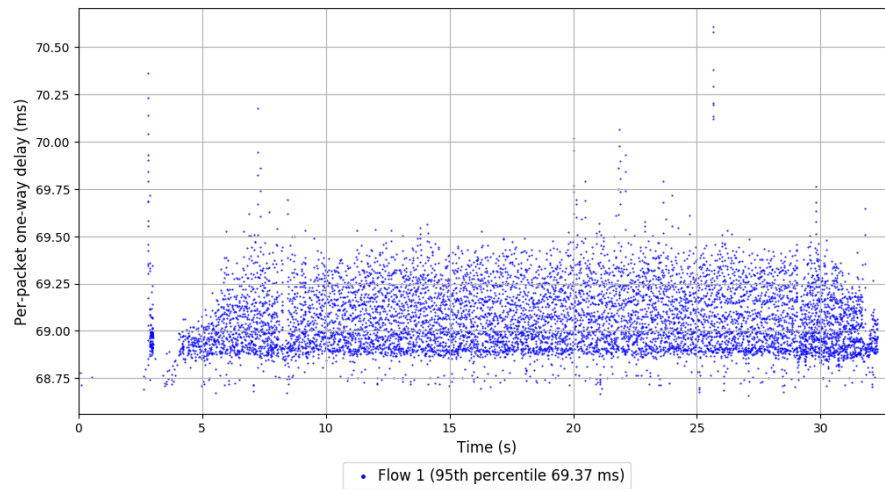
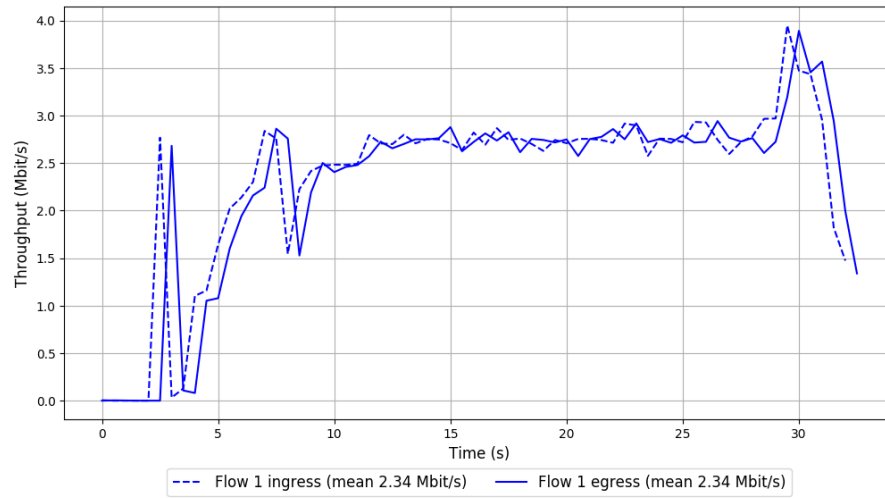


Run 4: Statistics of WebRTC media

Start at: 2019-01-19 07:04:07  
End at: 2019-01-19 07:04:37  
Local clock offset: 0.087 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2019-01-19 07:59:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 69.372 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 69.372 ms  
Loss rate: 0.24%

#### Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-19 07:32:06  
End at: 2019-01-19 07:32:36  
Local clock offset: 1.305 ms  
Remote clock offset: -1.294 ms

# Below is generated by plot.py at 2019-01-19 07:59:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 71.385 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 2.51 Mbit/s  
95th percentile per-packet one-way delay: 71.385 ms  
Loss rate: 0.18%

### Run 5: Report of WebRTC media — Data Link

