

## Pantheon Report

Generated at 2019-07-18 08:36:25 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

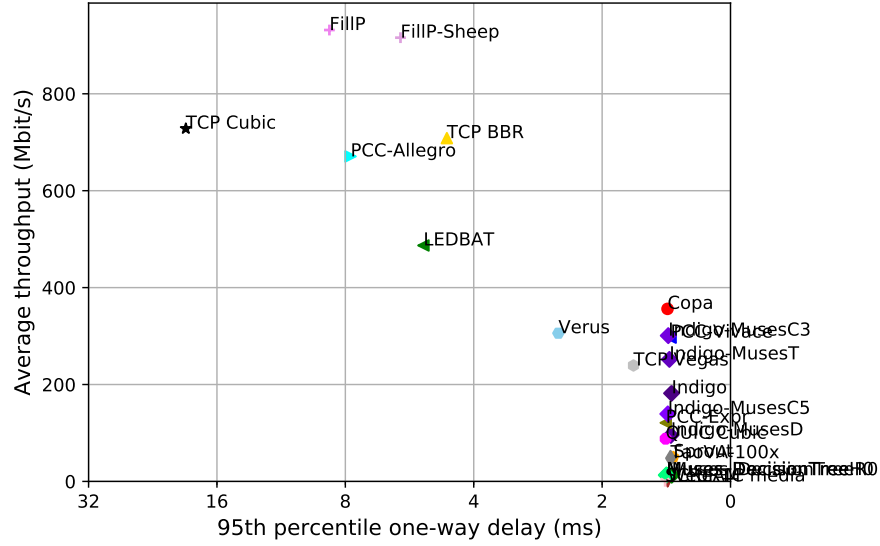
```
Linux 4.15.0-1043-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

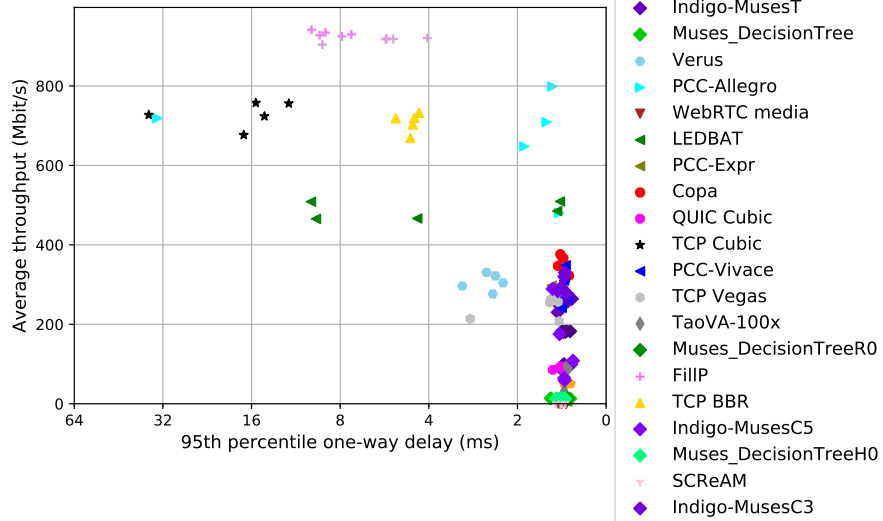
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Stanford to AWS California 1, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from Stanford to AWS California 1, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	708.53	4.62	0.02
Copa	5	356.11	0.98	0.01
TCP Cubic	5	728.07	18.93	0.04
FillP	5	931.61	8.72	0.02
FillP-Sheep	5	915.82	5.94	0.02
Indigo	5	181.87	0.92	0.01
Indigo-MusesC3	5	300.88	0.97	0.00
Indigo-MusesC5	5	139.33	0.98	0.00
Indigo-MusesD	5	95.00	0.93	0.01
Indigo-MusesT	5	251.86	0.95	0.01
LEDBAT	5	486.97	5.25	0.01
Muses_DecisionTree	5	12.82	0.99	0.01
Muses_DecisionTreeH0	5	13.19	1.00	0.01
Muses_DecisionTreeR0	5	12.79	0.92	0.01
PCC-Allegro	5	670.76	7.78	0.06
PCC-Expr	5	120.95	1.01	0.01
QUIC Cubic	5	88.05	1.01	0.01
SCReAM	5	0.22	1.02	0.03
Sprout	5	50.23	0.89	0.00
TaoVA-100x	5	47.88	0.93	0.01
TCP Vegas	5	239.26	1.51	0.01
Verus	5	305.88	2.53	0.01
PCC-Vivace	5	296.79	0.93	0.00
WebRTC media	5	0.05	0.98	0.01



Run 1: Statistics of TCP BBR

Start at: 2019-07-18 04:56:03

End at: 2019-07-18 04:56:33

Local clock offset: -0.246 ms

Remote clock offset: 0.772 ms

# Below is generated by plot.py at 2019-07-18 07:46:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 669.20 Mbit/s

95th percentile per-packet one-way delay: 4.617 ms

Loss rate: 0.02%

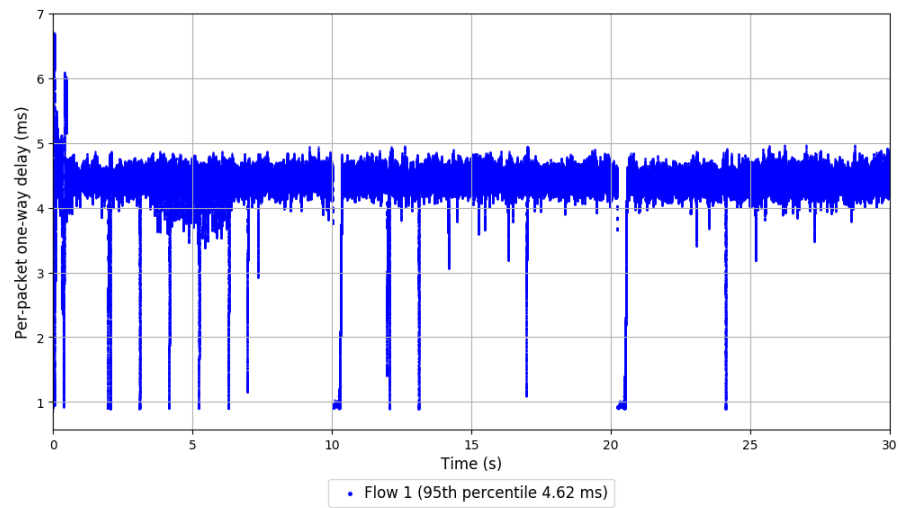
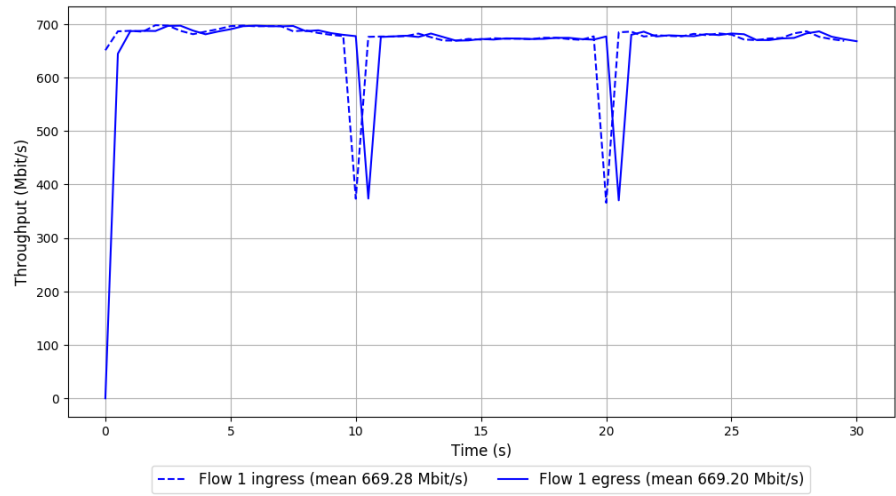
-- Flow 1:

Average throughput: 669.20 Mbit/s

95th percentile per-packet one-way delay: 4.617 ms

Loss rate: 0.02%

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



Run 2: Statistics of TCP BBR

Start at: 2019-07-18 05:29:19

End at: 2019-07-18 05:29:50

Local clock offset: -0.254 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-07-18 07:46:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 702.90 Mbit/s

95th percentile per-packet one-way delay: 4.533 ms

Loss rate: 0.02%

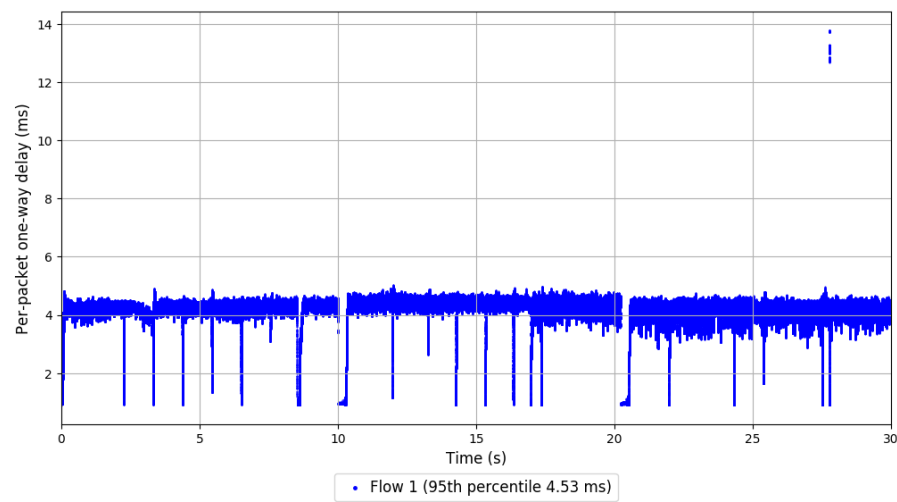
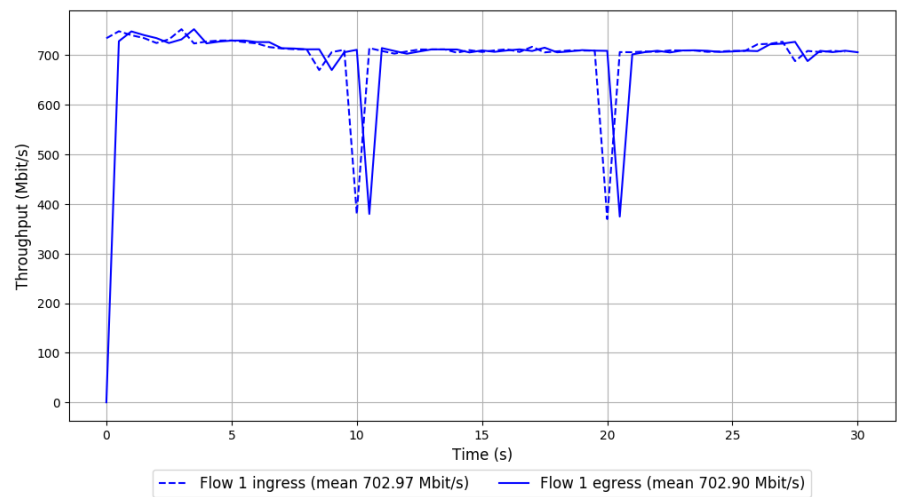
-- Flow 1:

Average throughput: 702.90 Mbit/s

95th percentile per-packet one-way delay: 4.533 ms

Loss rate: 0.02%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-07-18 06:02:45

End at: 2019-07-18 06:03:15

Local clock offset: 1.962 ms

Remote clock offset: 2.784 ms

# Below is generated by plot.py at 2019-07-18 07:47:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 732.44 Mbit/s

95th percentile per-packet one-way delay: 4.316 ms

Loss rate: 0.02%

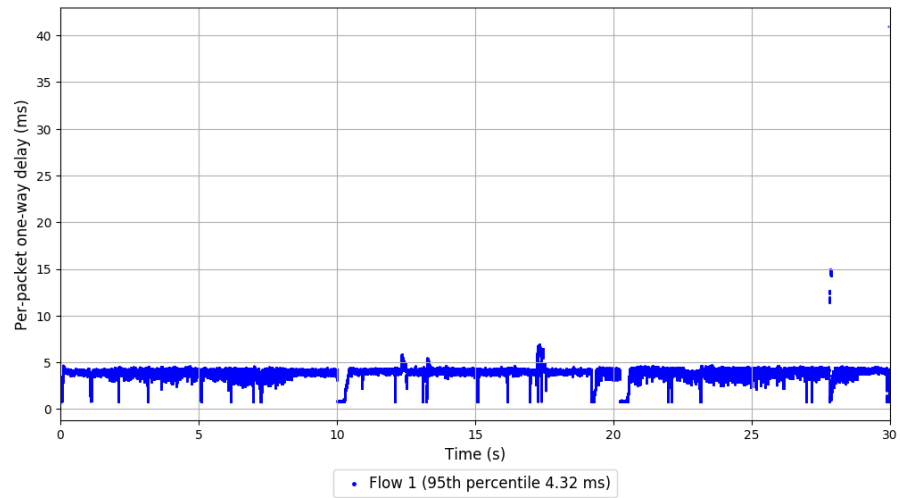
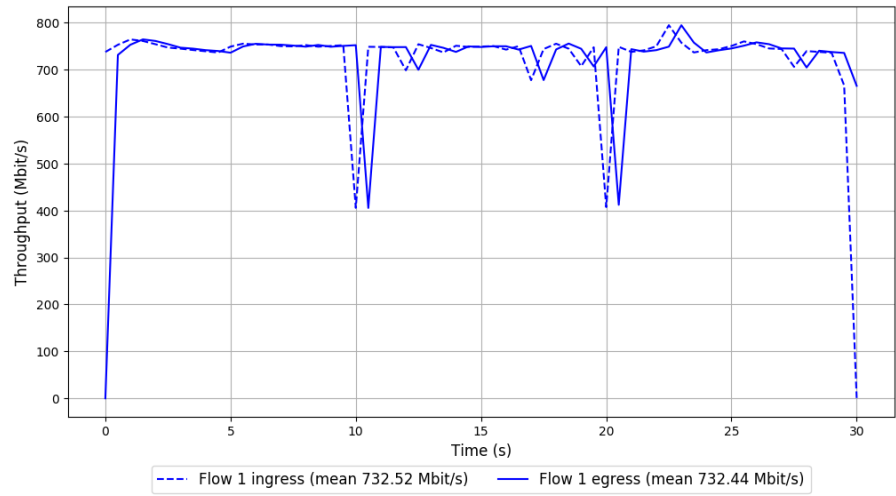
-- Flow 1:

Average throughput: 732.44 Mbit/s

95th percentile per-packet one-way delay: 4.316 ms

Loss rate: 0.02%

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



Run 4: Statistics of TCP BBR

Start at: 2019-07-18 06:36:08

End at: 2019-07-18 06:36:38

Local clock offset: 3.27 ms

Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2019-07-18 07:47:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 718.74 Mbit/s

95th percentile per-packet one-way delay: 5.179 ms

Loss rate: 0.02%

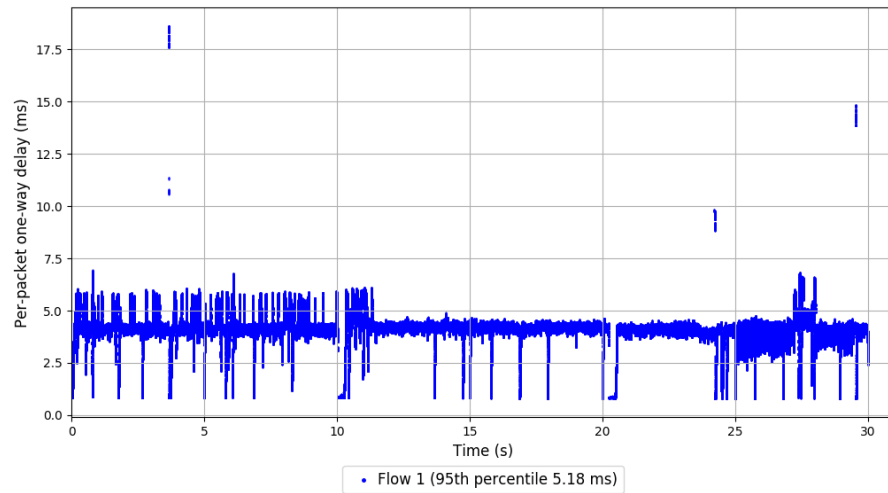
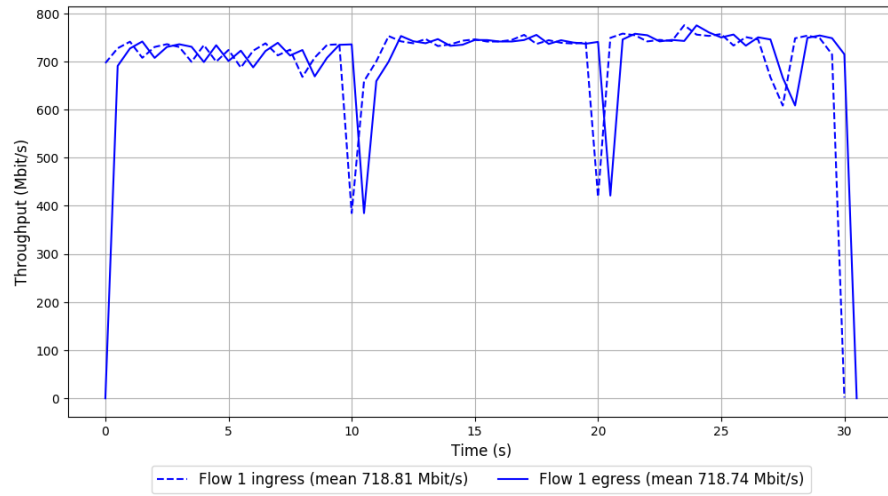
-- Flow 1:

Average throughput: 718.74 Mbit/s

95th percentile per-packet one-way delay: 5.179 ms

Loss rate: 0.02%

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





Run 5: Statistics of TCP BBR

Start at: 2019-07-18 07:09:38

End at: 2019-07-18 07:10:08

Local clock offset: 1.415 ms

Remote clock offset: 1.006 ms

# Below is generated by plot.py at 2019-07-18 07:47:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 719.35 Mbit/s

95th percentile per-packet one-way delay: 4.477 ms

Loss rate: 0.02%

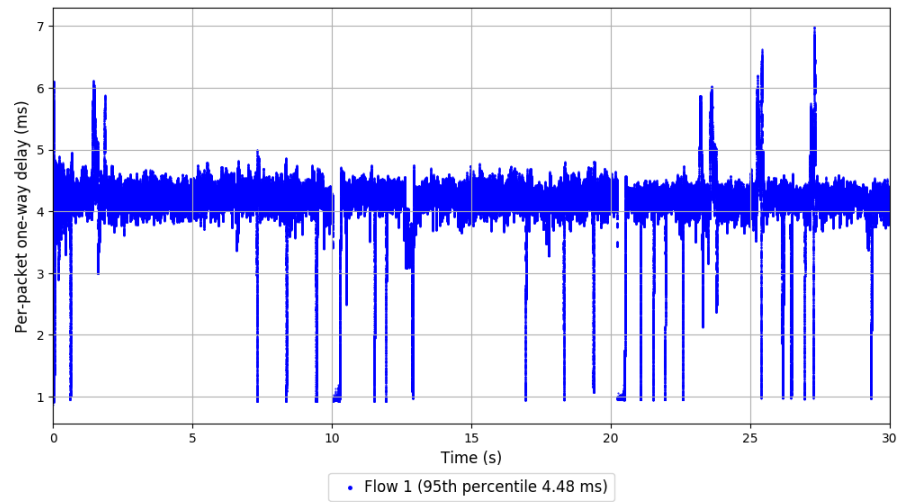
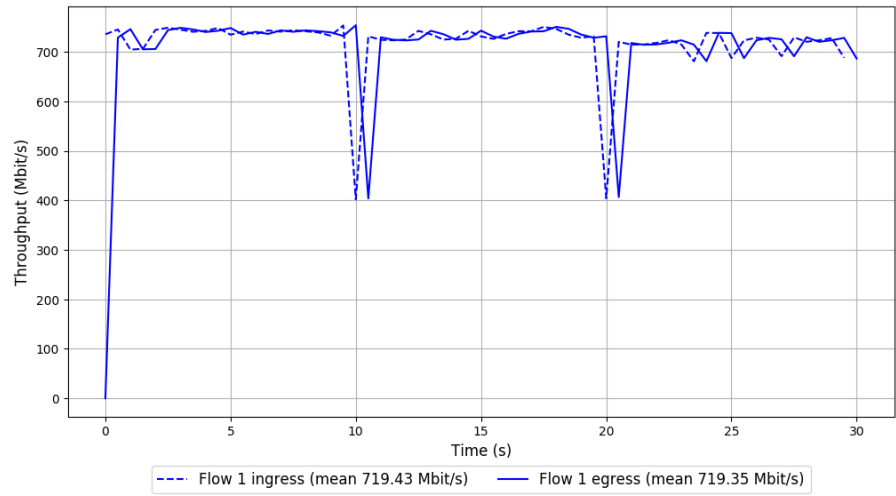
-- Flow 1:

Average throughput: 719.35 Mbit/s

95th percentile per-packet one-way delay: 4.477 ms

Loss rate: 0.02%

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



Run 1: Statistics of Copa

Start at: 2019-07-18 05:00:28

End at: 2019-07-18 05:00:58

Local clock offset: -0.099 ms

Remote clock offset: 0.968 ms

# Below is generated by plot.py at 2019-07-18 07:47:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 368.57 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.01%

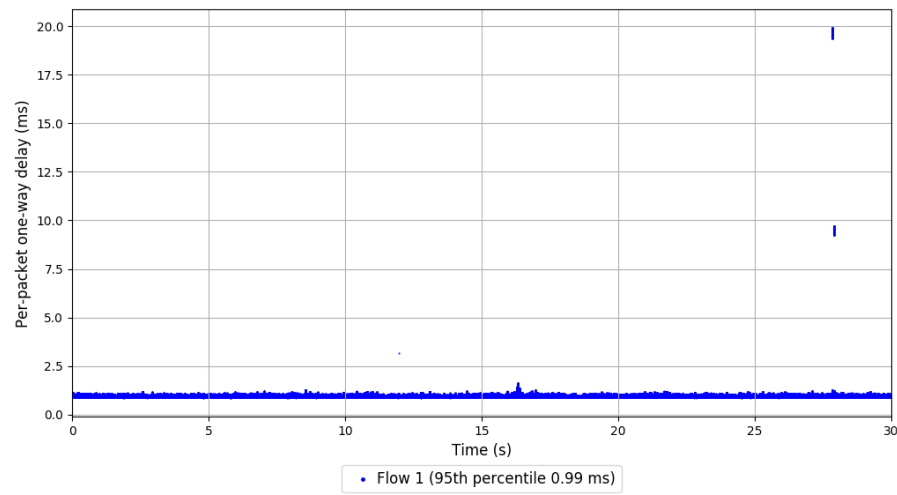
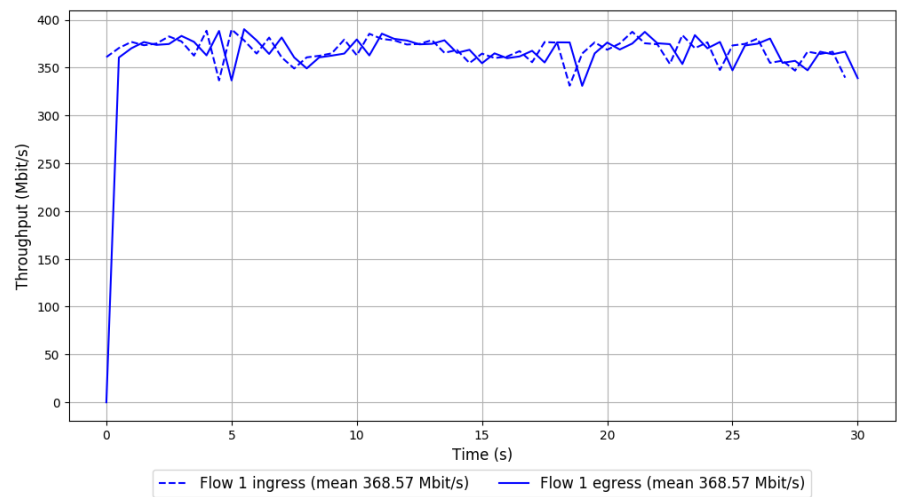
-- Flow 1:

Average throughput: 368.57 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link

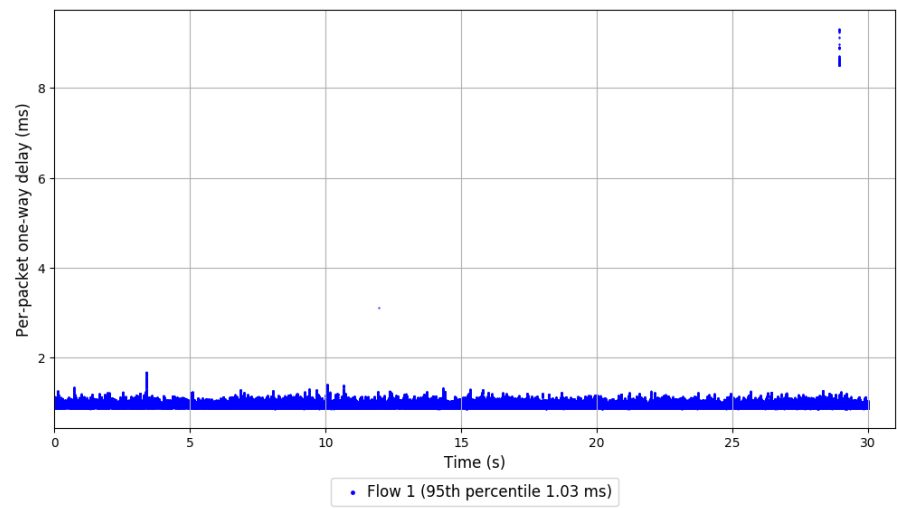
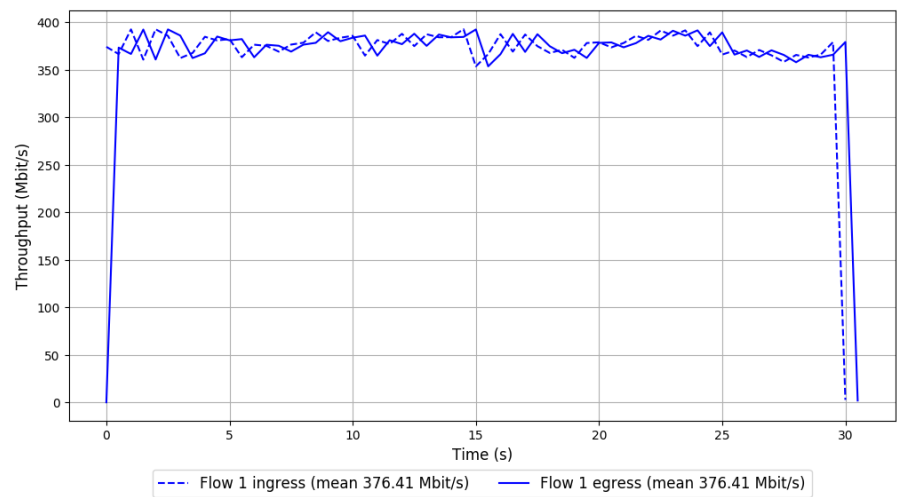


Run 2: Statistics of Copa

Start at: 2019-07-18 05:33:47  
End at: 2019-07-18 05:34:17  
Local clock offset: -0.268 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-07-18 07:47:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 376.41 Mbit/s  
95th percentile per-packet one-way delay: 1.032 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 376.41 Mbit/s  
95th percentile per-packet one-way delay: 1.032 ms  
Loss rate: 0.01%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-07-18 06:07:12

End at: 2019-07-18 06:07:43

Local clock offset: 2.591 ms

Remote clock offset: 3.226 ms

# Below is generated by plot.py at 2019-07-18 07:47:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 322.62 Mbit/s

95th percentile per-packet one-way delay: 0.838 ms

Loss rate: 0.01%

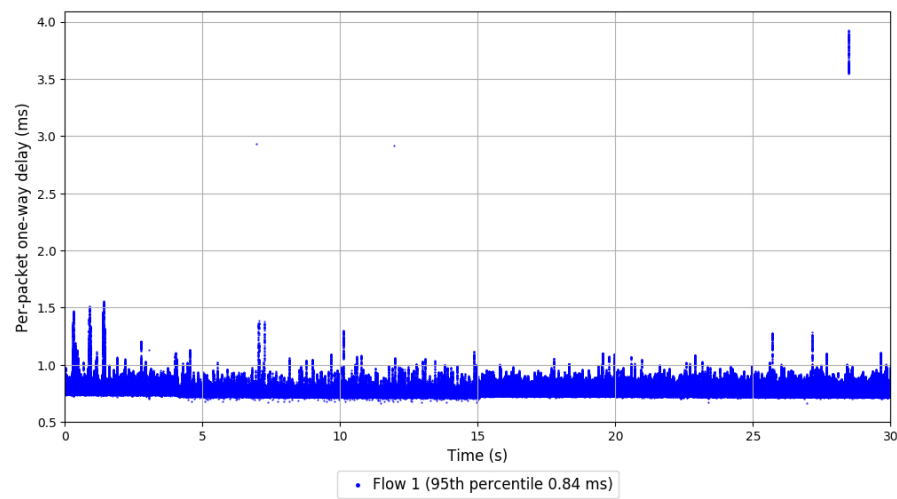
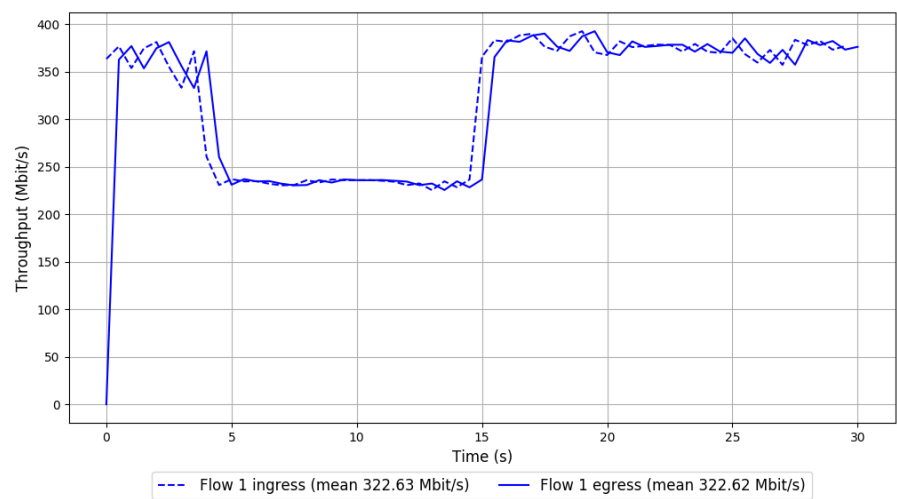
-- Flow 1:

Average throughput: 322.62 Mbit/s

95th percentile per-packet one-way delay: 0.838 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



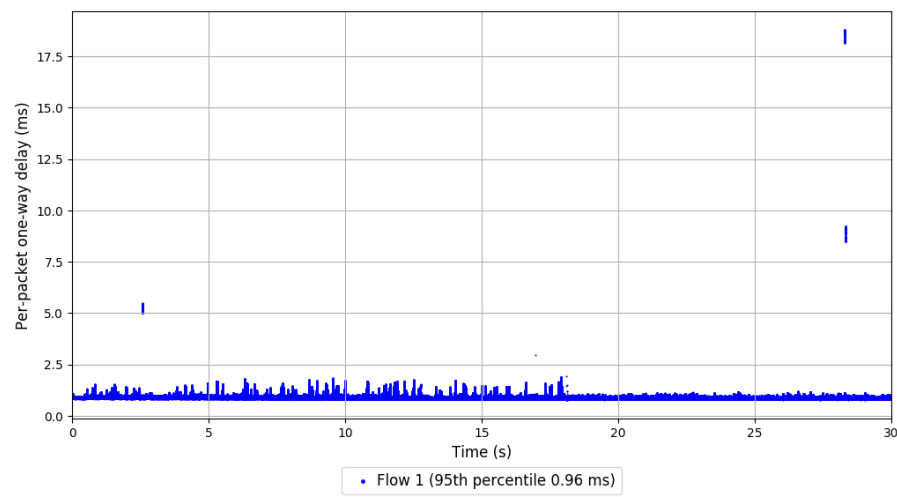
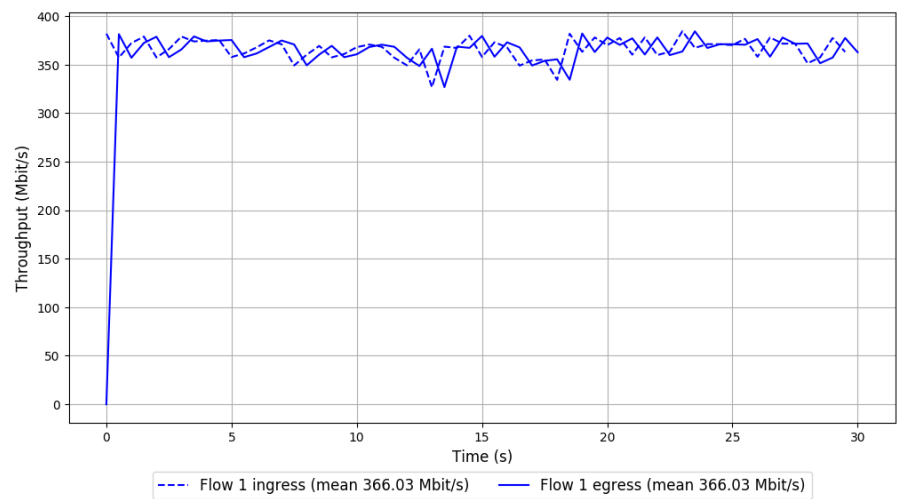


Run 4: Statistics of Copa

Start at: 2019-07-18 06:40:33  
End at: 2019-07-18 06:41:03  
Local clock offset: 3.24 ms  
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2019-07-18 07:54:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 366.03 Mbit/s  
95th percentile per-packet one-way delay: 0.965 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 366.03 Mbit/s  
95th percentile per-packet one-way delay: 0.965 ms  
Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-07-18 07:14:05

End at: 2019-07-18 07:14:35

Local clock offset: 1.232 ms

Remote clock offset: 1.329 ms

# Below is generated by plot.py at 2019-07-18 07:54:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 346.94 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.01%

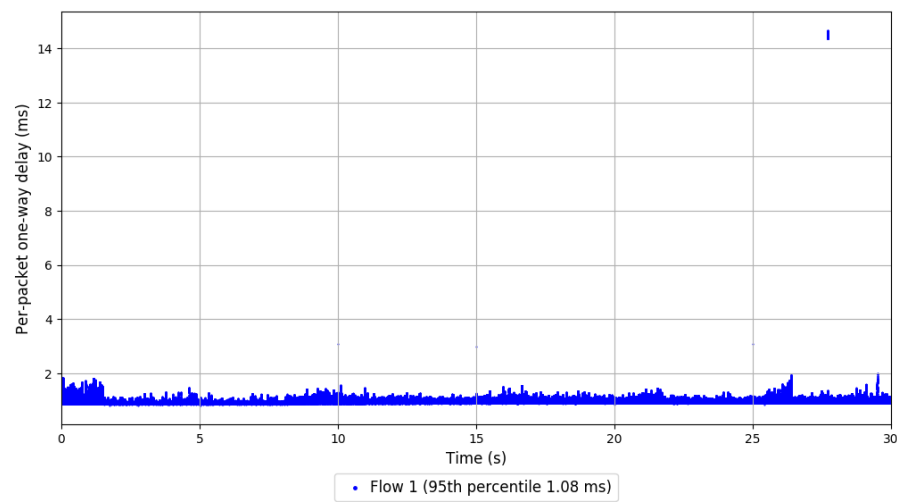
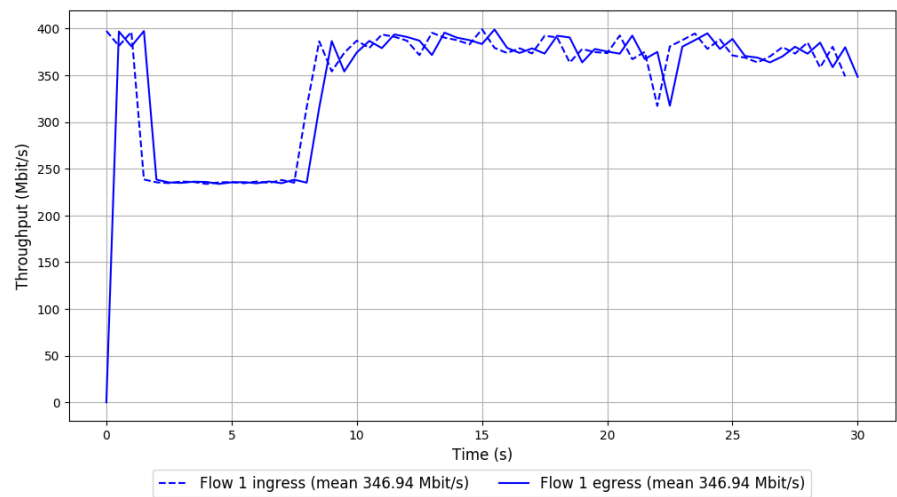
-- Flow 1:

Average throughput: 346.94 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-07-18 04:57:37

End at: 2019-07-18 04:58:08

Local clock offset: -0.19 ms

Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2019-07-18 07:54:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 723.52 Mbit/s

95th percentile per-packet one-way delay: 14.465 ms

Loss rate: 0.04%

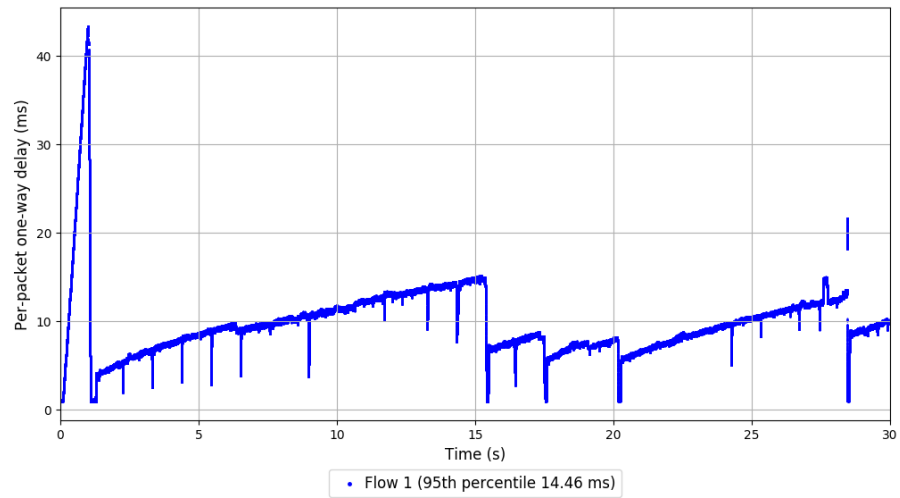
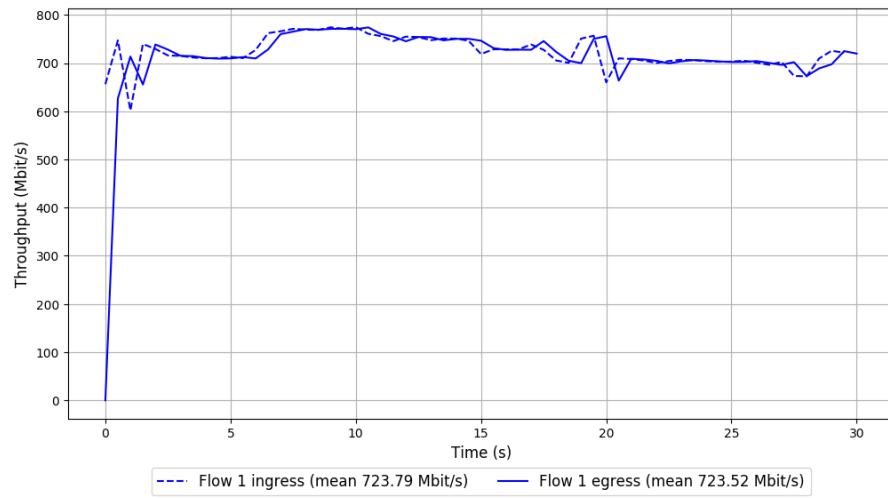
-- Flow 1:

Average throughput: 723.52 Mbit/s

95th percentile per-packet one-way delay: 14.465 ms

Loss rate: 0.04%

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

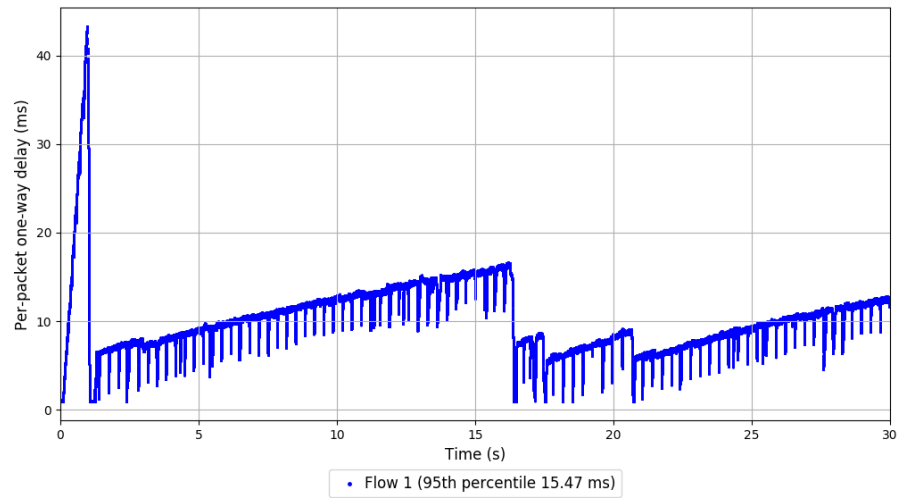
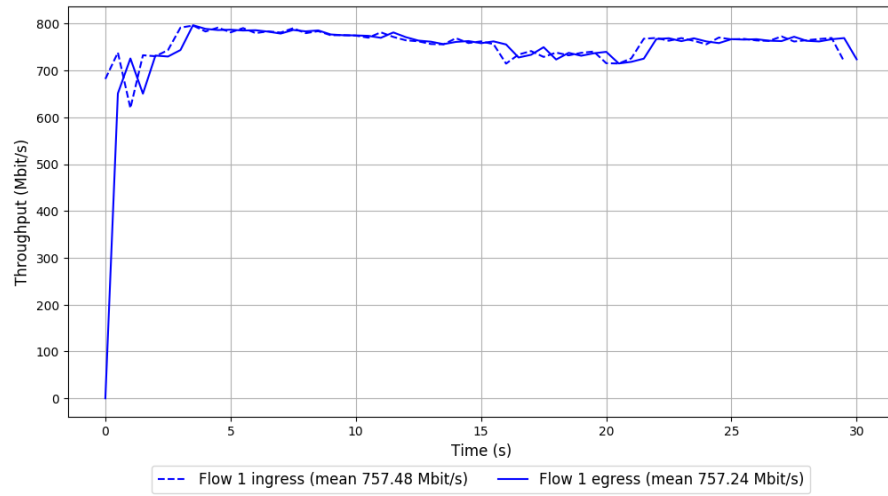


Run 2: Statistics of TCP Cubic

Start at: 2019-07-18 05:30:55  
End at: 2019-07-18 05:31:25  
Local clock offset: -0.237 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-07-18 07:55:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 757.24 Mbit/s  
95th percentile per-packet one-way delay: 15.474 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 757.24 Mbit/s  
95th percentile per-packet one-way delay: 15.474 ms  
Loss rate: 0.04%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-07-18 06:04:21

End at: 2019-07-18 06:04:51

Local clock offset: 2.162 ms

Remote clock offset: 2.924 ms

# Below is generated by plot.py at 2019-07-18 07:55:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 755.88 Mbit/s

95th percentile per-packet one-way delay: 11.956 ms

Loss rate: 0.04%

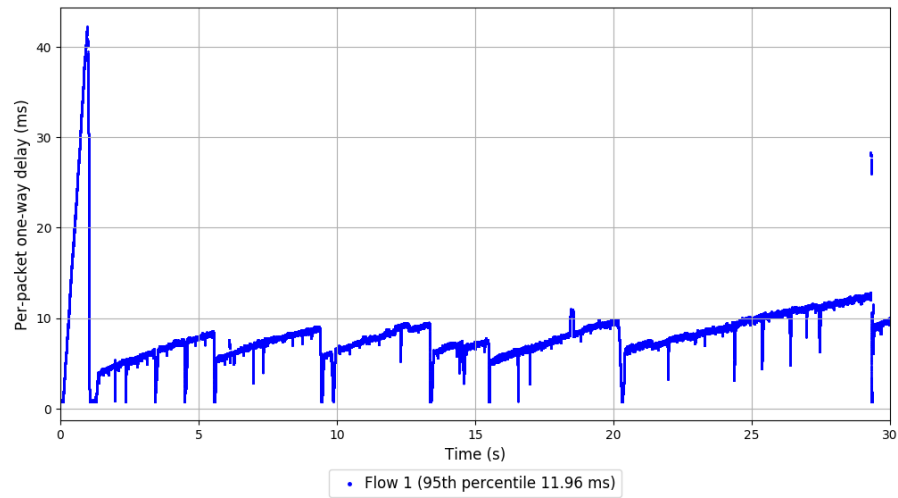
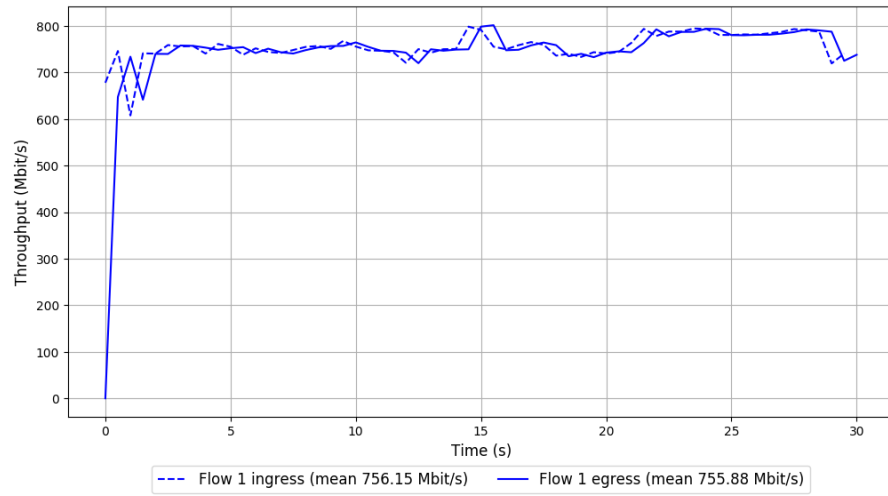
-- Flow 1:

Average throughput: 755.88 Mbit/s

95th percentile per-packet one-way delay: 11.956 ms

Loss rate: 0.04%

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

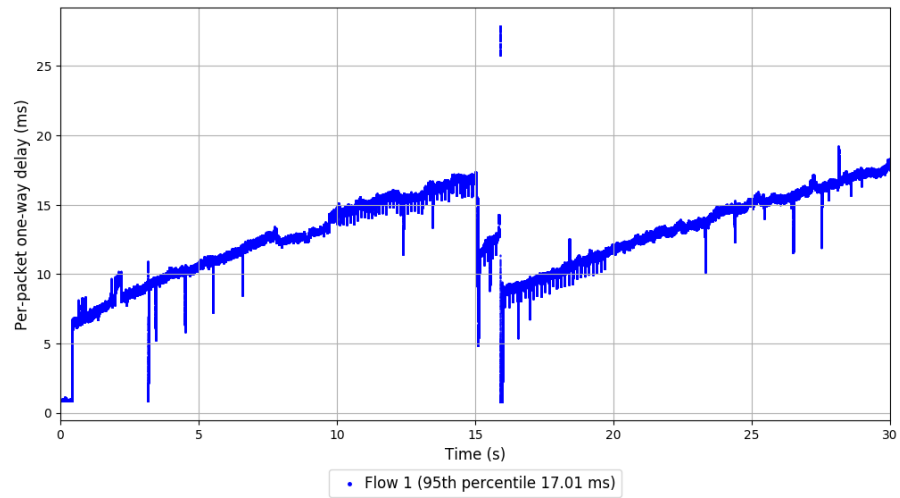
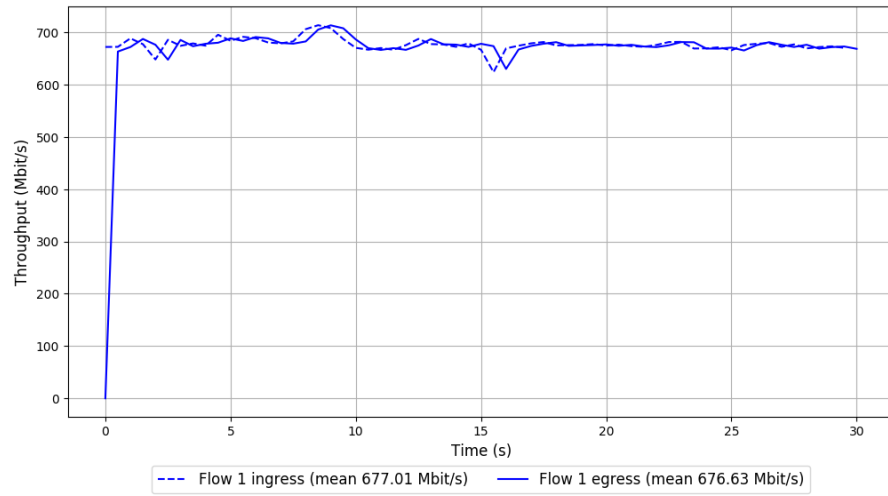


Run 4: Statistics of TCP Cubic

Start at: 2019-07-18 06:37:44  
End at: 2019-07-18 06:38:14  
Local clock offset: 3.239 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-07-18 07:55:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 676.63 Mbit/s  
95th percentile per-packet one-way delay: 17.008 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 676.63 Mbit/s  
95th percentile per-packet one-way delay: 17.008 ms  
Loss rate: 0.06%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-07-18 07:11:15

End at: 2019-07-18 07:11:45

Local clock offset: 1.33 ms

Remote clock offset: 1.092 ms

# Below is generated by plot.py at 2019-07-18 07:55:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 727.06 Mbit/s

95th percentile per-packet one-way delay: 35.745 ms

Loss rate: 0.03%

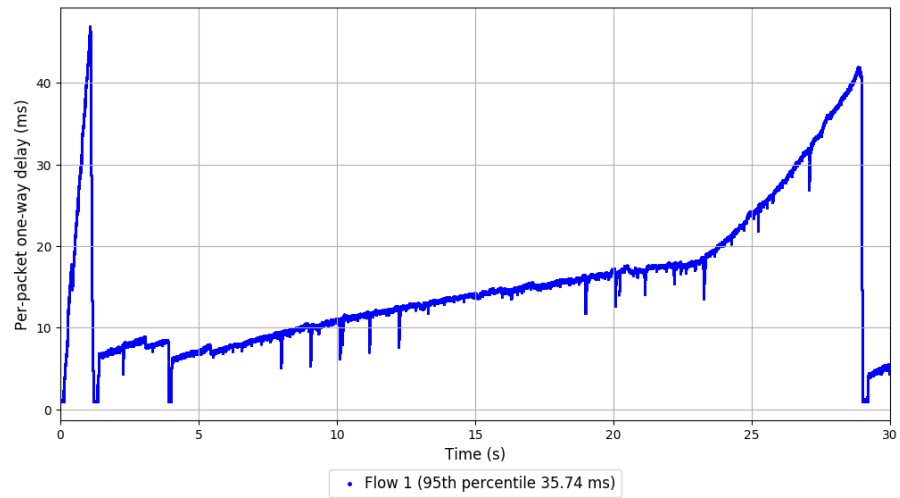
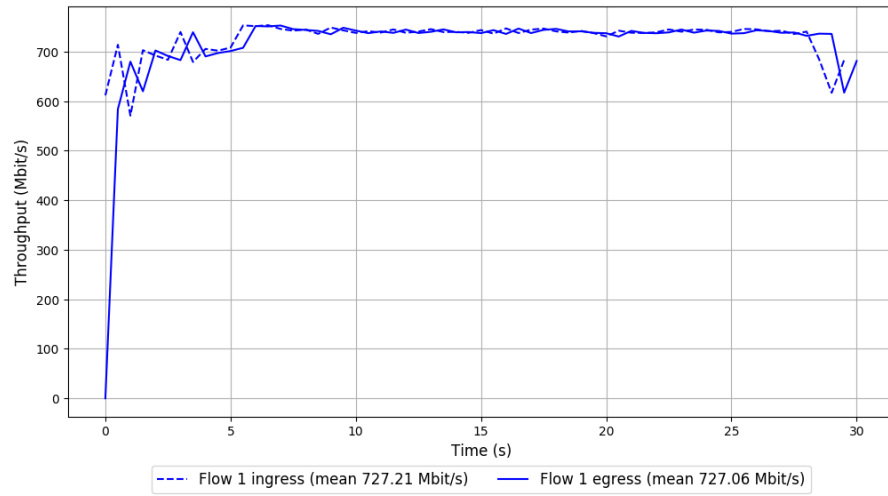
-- Flow 1:

Average throughput: 727.06 Mbit/s

95th percentile per-packet one-way delay: 35.745 ms

Loss rate: 0.03%

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

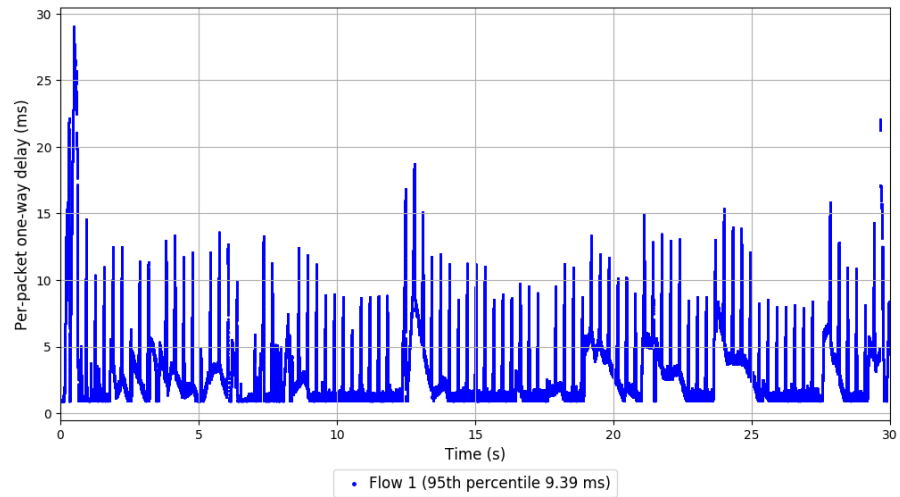
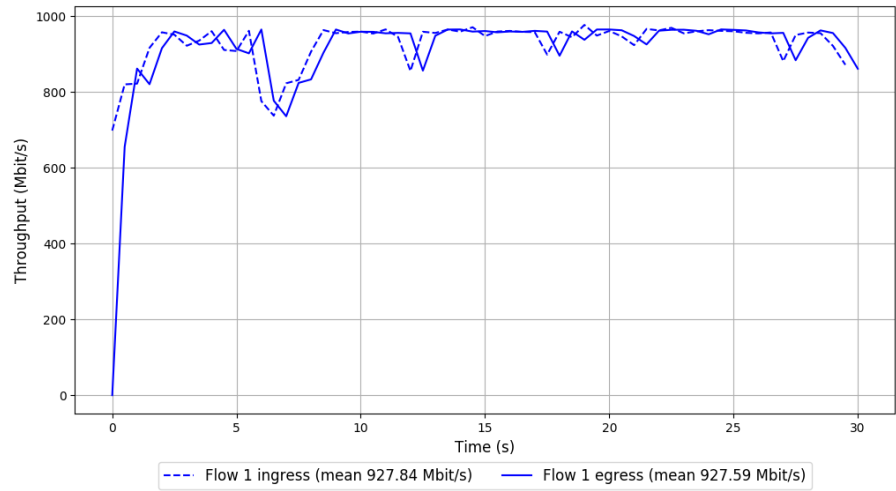


```
Run 1: Statistics of FillP

Start at: 2019-07-18 05:02:04
End at: 2019-07-18 05:02:34
Local clock offset: -0.097 ms
Remote clock offset: 0.96 ms

# Below is generated by plot.py at 2019-07-18 07:59:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 927.59 Mbit/s
95th percentile per-packet one-way delay: 9.392 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 927.59 Mbit/s
95th percentile per-packet one-way delay: 9.392 ms
Loss rate: 0.03%
```

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



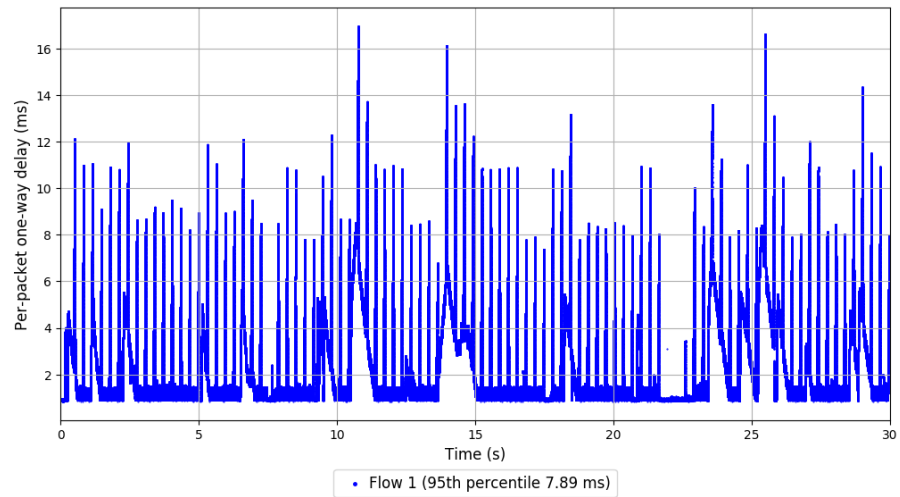
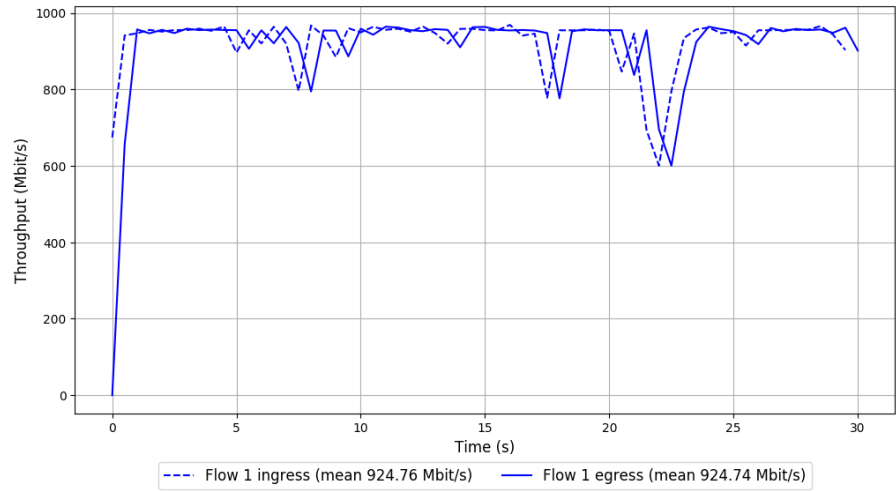


Run 2: Statistics of FillP

Start at: 2019-07-18 05:35:23  
End at: 2019-07-18 05:35:53  
Local clock offset: -0.244 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-07-18 08:06:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 924.74 Mbit/s  
95th percentile per-packet one-way delay: 7.888 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 924.74 Mbit/s  
95th percentile per-packet one-way delay: 7.888 ms  
Loss rate: 0.01%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-07-18 06:08:46

End at: 2019-07-18 06:09:16

Local clock offset: 2.784 ms

Remote clock offset: 3.204 ms

# Below is generated by plot.py at 2019-07-18 08:07:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 934.45 Mbit/s

95th percentile per-packet one-way delay: 8.981 ms

Loss rate: 0.04%

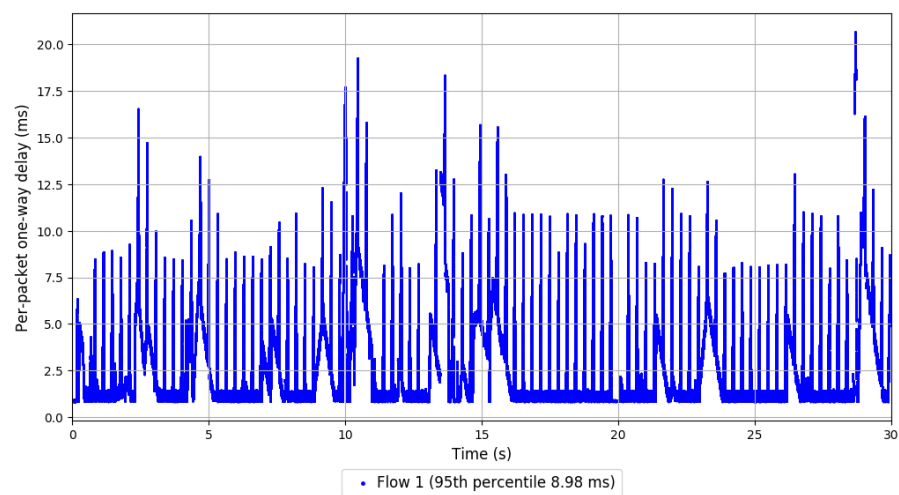
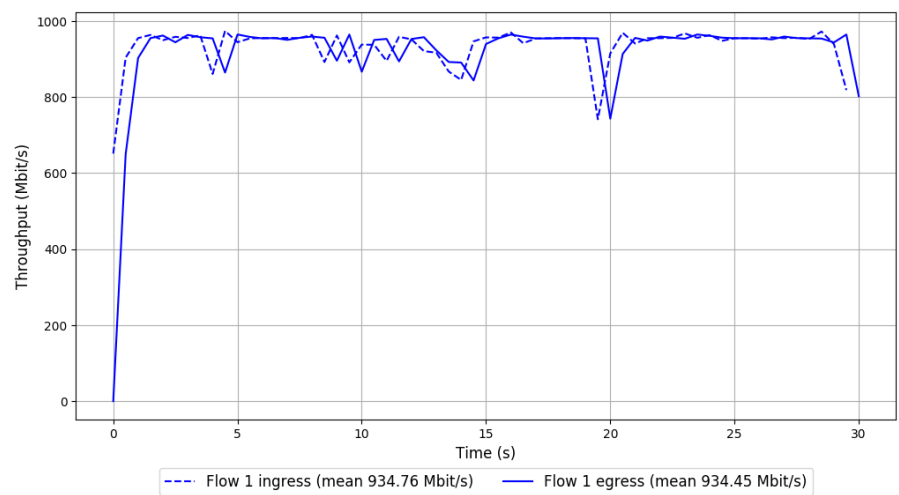
-- Flow 1:

Average throughput: 934.45 Mbit/s

95th percentile per-packet one-way delay: 8.981 ms

Loss rate: 0.04%

Run 3: Report of FillP — Data Link

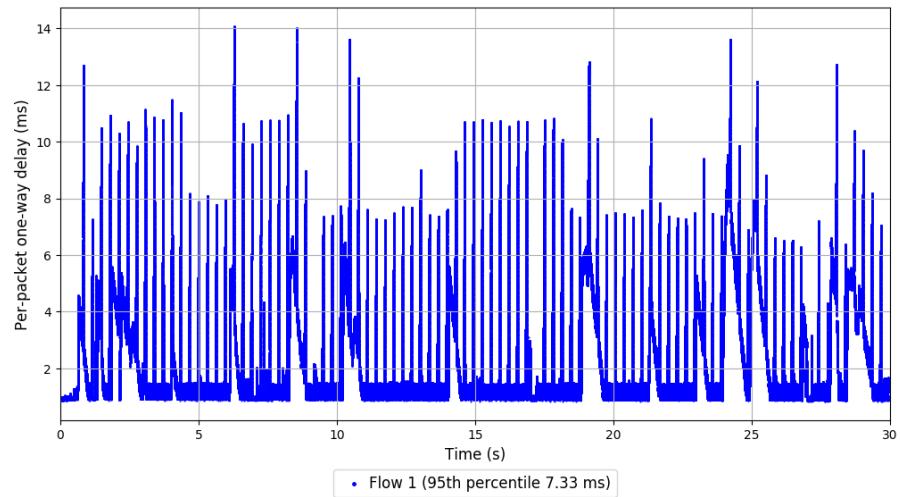
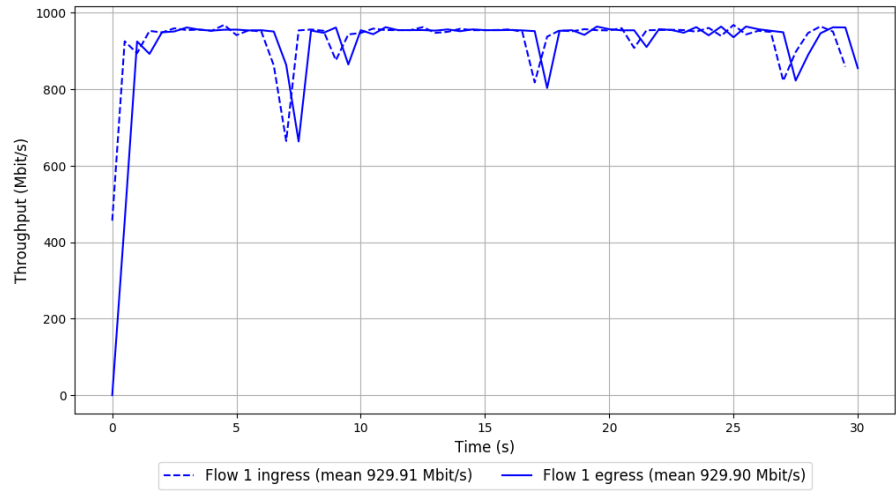


Run 4: Statistics of FillP

Start at: 2019-07-18 06:42:10  
End at: 2019-07-18 06:42:40  
Local clock offset: 3.228 ms  
Remote clock offset: -0.468 ms

# Below is generated by plot.py at 2019-07-18 08:07:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 929.90 Mbit/s  
95th percentile per-packet one-way delay: 7.331 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 929.90 Mbit/s  
95th percentile per-packet one-way delay: 7.331 ms  
Loss rate: 0.01%

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



Run 5: Statistics of FillP

Start at: 2019-07-18 07:15:40

End at: 2019-07-18 07:16:10

Local clock offset: 1.168 ms

Remote clock offset: 1.31 ms

# Below is generated by plot.py at 2019-07-18 08:07:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 941.38 Mbit/s

95th percentile per-packet one-way delay: 10.003 ms

Loss rate: 0.01%

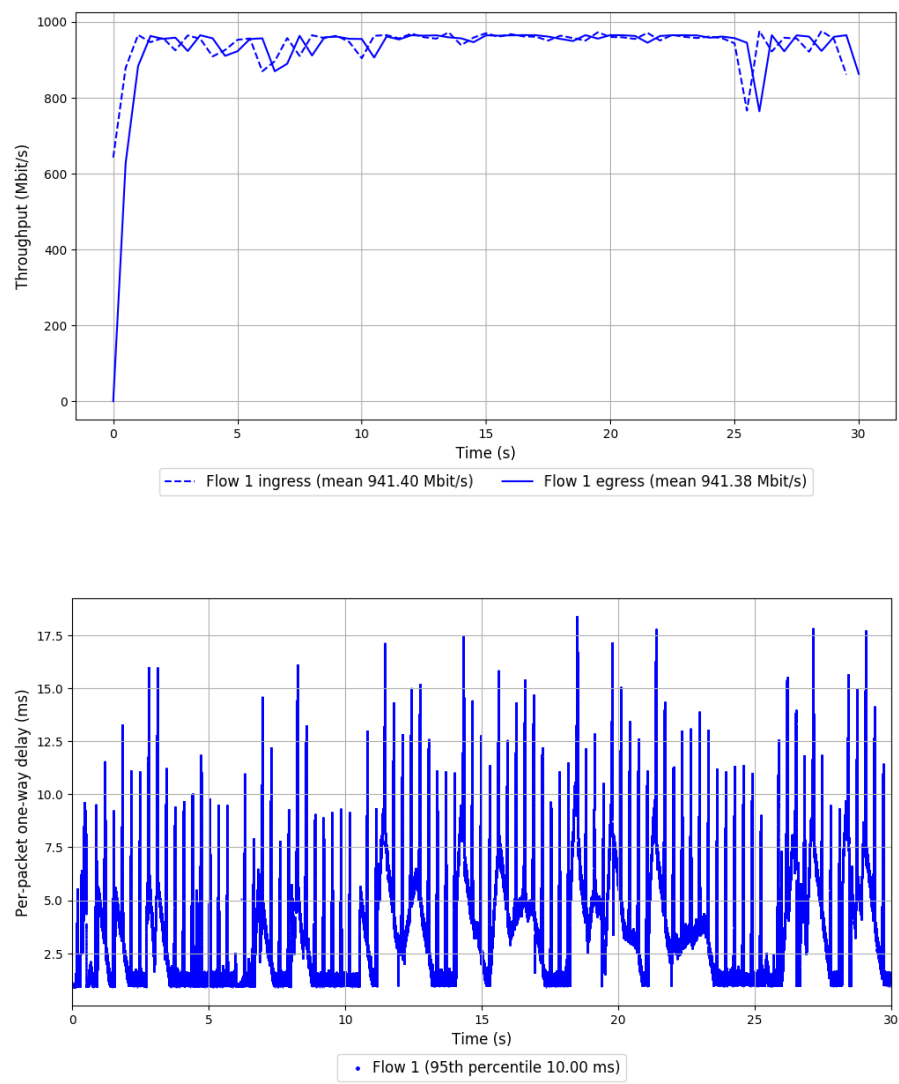
-- Flow 1:

Average throughput: 941.38 Mbit/s

95th percentile per-packet one-way delay: 10.003 ms

Loss rate: 0.01%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-07-18 05:16:04

End at: 2019-07-18 05:16:34

Local clock offset: -0.178 ms

Remote clock offset: 0.985 ms

# Below is generated by plot.py at 2019-07-18 08:07:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 918.14 Mbit/s

95th percentile per-packet one-way delay: 5.282 ms

Loss rate: 0.03%

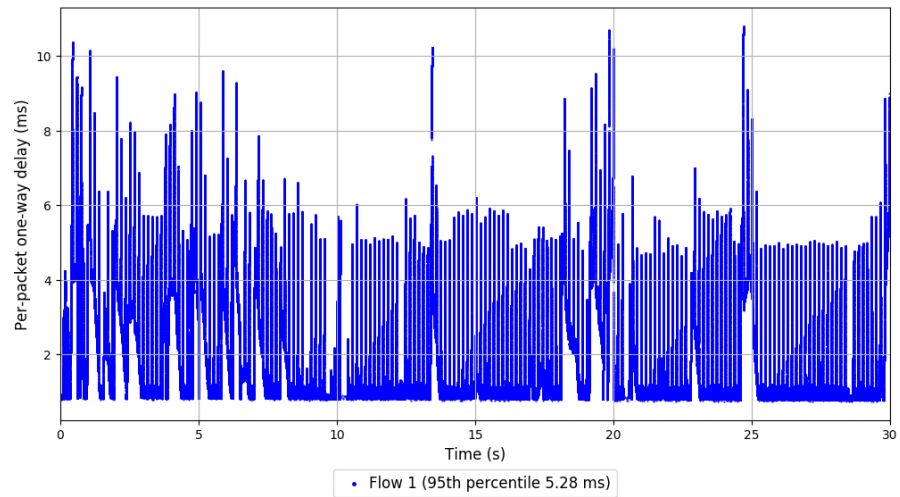
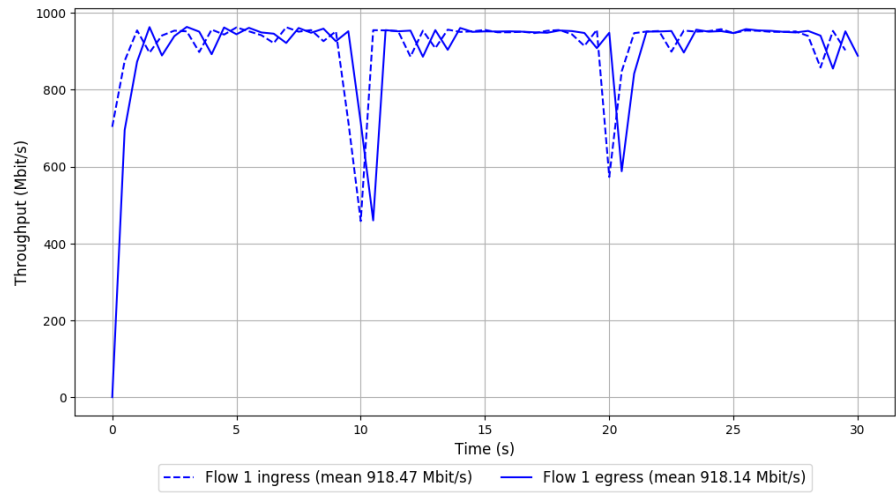
-- Flow 1:

Average throughput: 918.14 Mbit/s

95th percentile per-packet one-way delay: 5.282 ms

Loss rate: 0.03%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-07-18 05:49:12

End at: 2019-07-18 05:49:42

Local clock offset: -0.187 ms

Remote clock offset: 0.254 ms

# Below is generated by plot.py at 2019-07-18 08:07:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 917.11 Mbit/s

95th percentile per-packet one-way delay: 5.607 ms

Loss rate: 0.01%

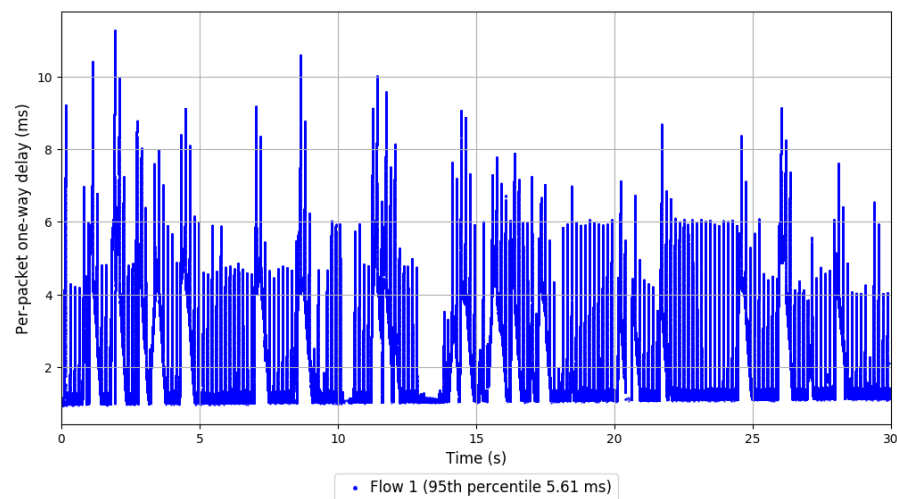
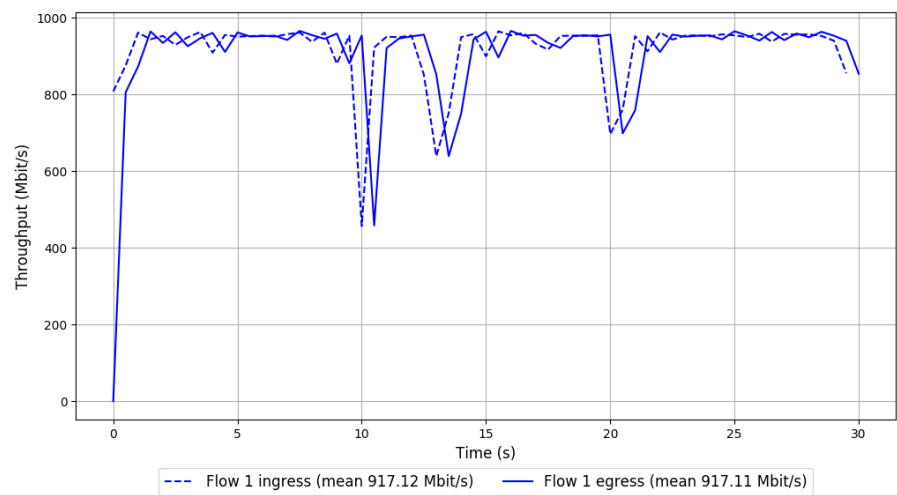
-- Flow 1:

Average throughput: 917.11 Mbit/s

95th percentile per-packet one-way delay: 5.607 ms

Loss rate: 0.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-07-18 06:22:46

End at: 2019-07-18 06:23:16

Local clock offset: 3.775 ms

Remote clock offset: 3.414 ms

# Below is generated by plot.py at 2019-07-18 08:08:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 920.39 Mbit/s

95th percentile per-packet one-way delay: 4.051 ms

Loss rate: 0.02%

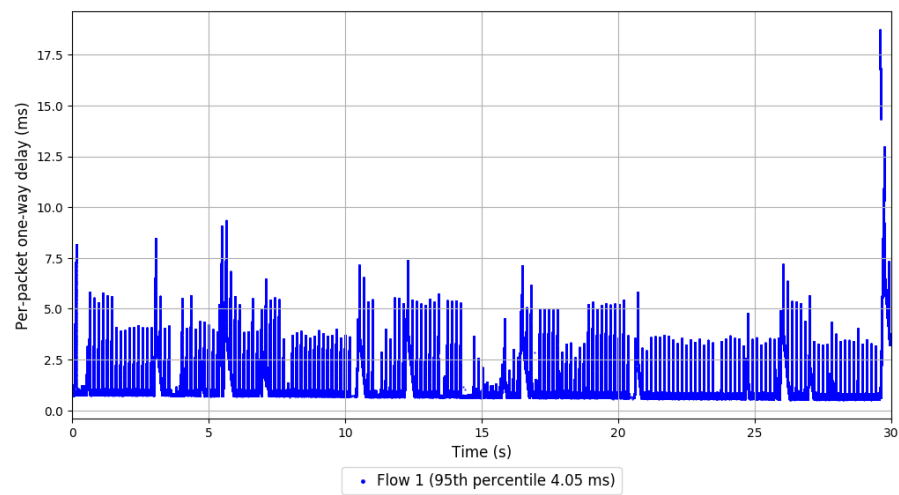
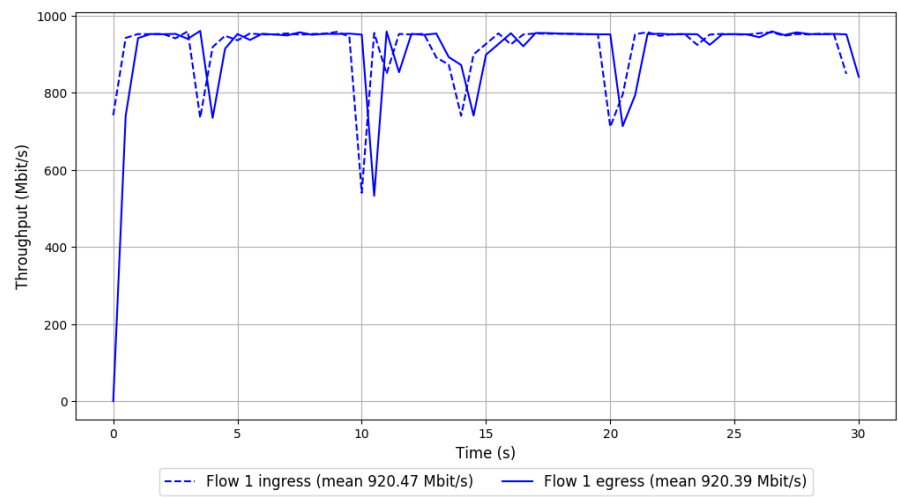
-- Flow 1:

Average throughput: 920.39 Mbit/s

95th percentile per-packet one-way delay: 4.051 ms

Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link

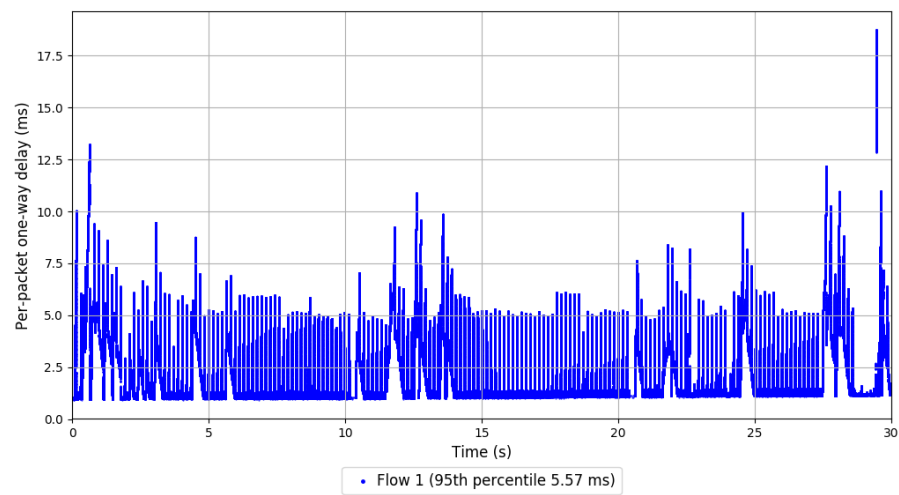
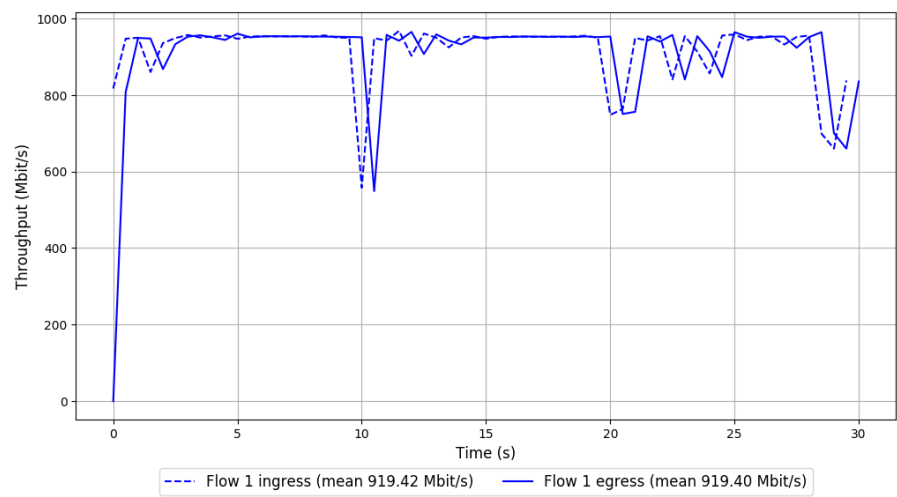


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-18 06:56:04  
End at: 2019-07-18 06:56:34  
Local clock offset: 3.111 ms  
Remote clock offset: -1.044 ms

# Below is generated by plot.py at 2019-07-18 08:13:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 919.40 Mbit/s  
95th percentile per-packet one-way delay: 5.569 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 919.40 Mbit/s  
95th percentile per-packet one-way delay: 5.569 ms  
Loss rate: 0.01%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-07-18 07:29:30

End at: 2019-07-18 07:30:00

Local clock offset: 0.399 ms

Remote clock offset: 1.855 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 904.04 Mbit/s

95th percentile per-packet one-way delay: 9.193 ms

Loss rate: 0.01%

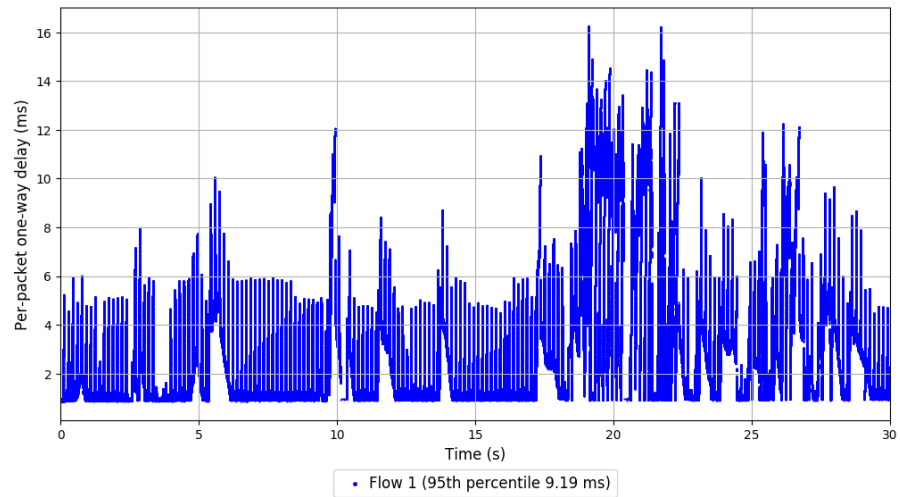
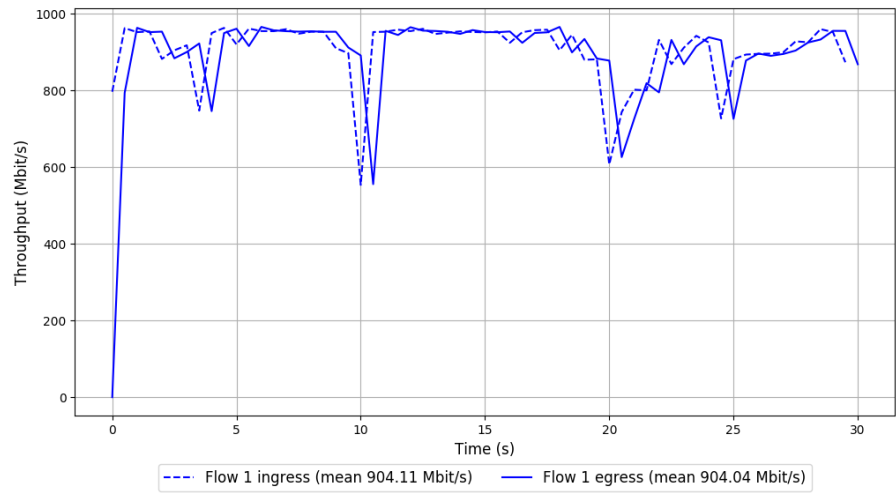
-- Flow 1:

Average throughput: 904.04 Mbit/s

95th percentile per-packet one-way delay: 9.193 ms

Loss rate: 0.01%

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

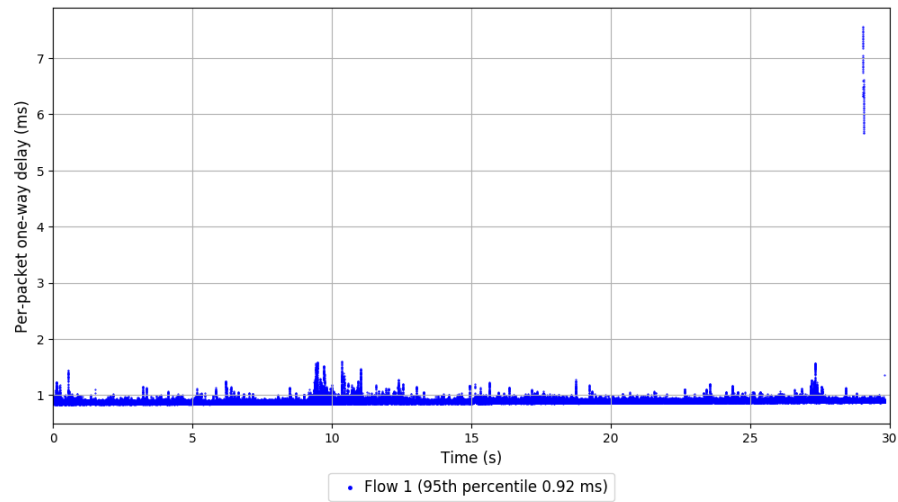
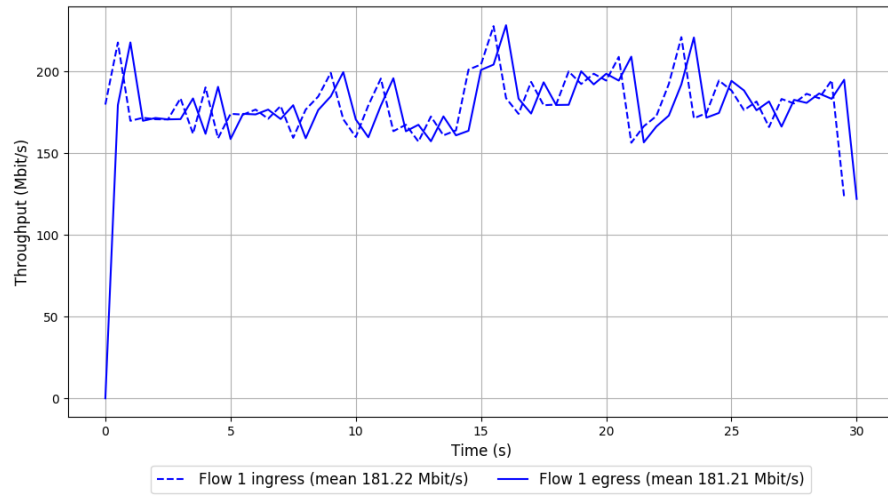


```
Run 1: Statistics of Indigo

Start at: 2019-07-18 04:52:10
End at: 2019-07-18 04:52:40
Local clock offset: -0.208 ms
Remote clock offset: 0.677 ms

# Below is generated by plot.py at 2019-07-18 08:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.21 Mbit/s
95th percentile per-packet one-way delay: 0.918 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 181.21 Mbit/s
95th percentile per-packet one-way delay: 0.918 ms
Loss rate: 0.01%
```

### Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-07-18 05:25:27

End at: 2019-07-18 05:25:57

Local clock offset: -0.311 ms

Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.96 Mbit/s

95th percentile per-packet one-way delay: 0.897 ms

Loss rate: 0.01%

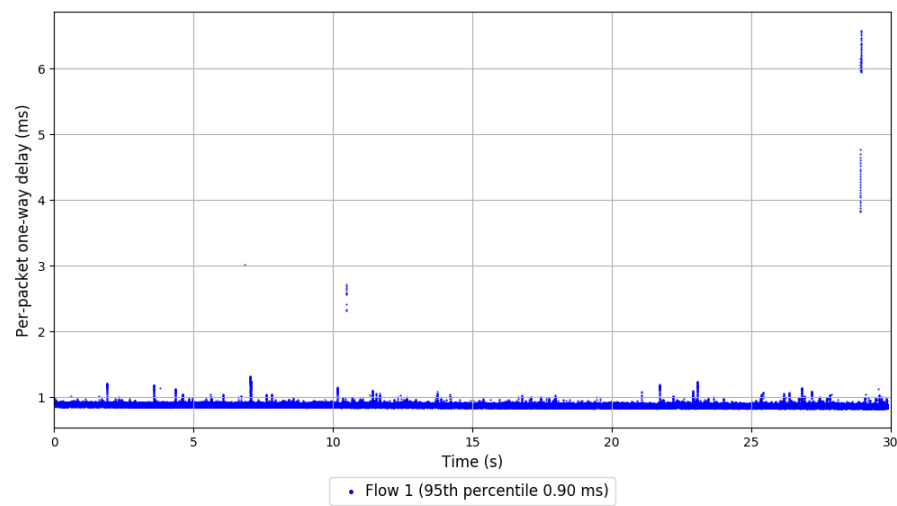
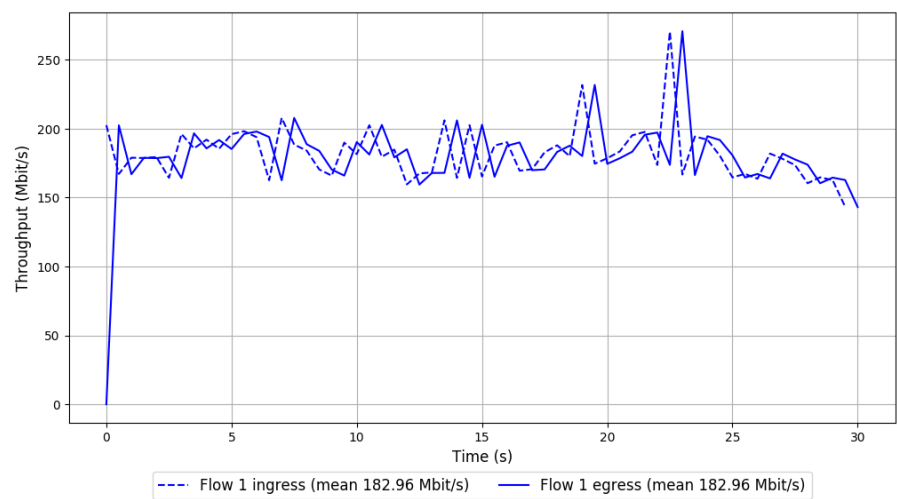
-- Flow 1:

Average throughput: 182.96 Mbit/s

95th percentile per-packet one-way delay: 0.897 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-07-18 05:58:52

End at: 2019-07-18 05:59:22

Local clock offset: 1.061 ms

Remote clock offset: 2.314 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.68 Mbit/s

95th percentile per-packet one-way delay: 0.812 ms

Loss rate: 0.01%

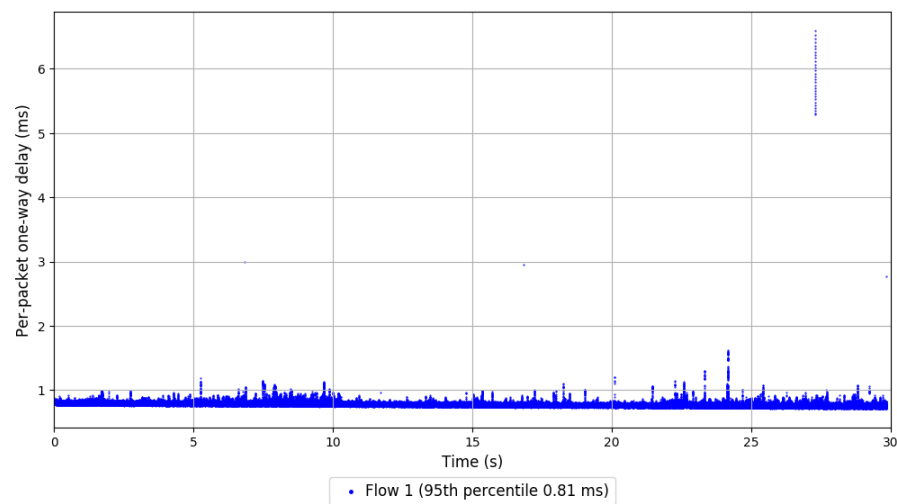
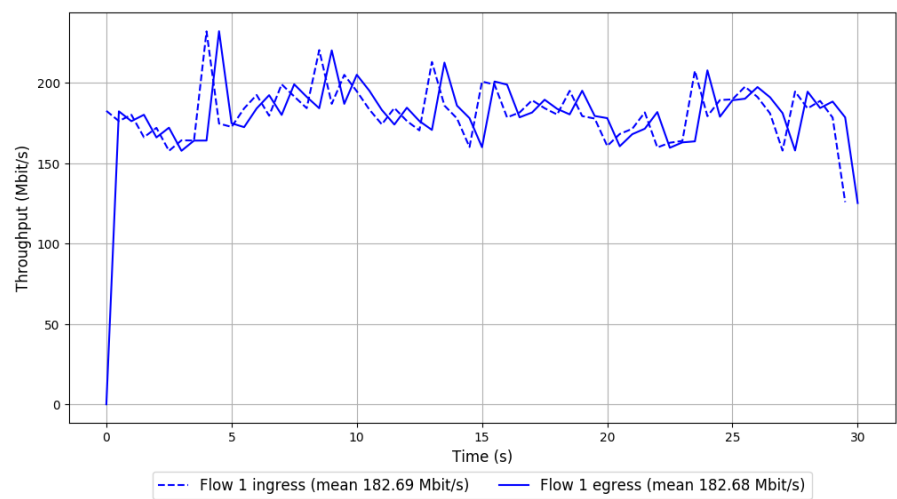
-- Flow 1:

Average throughput: 182.68 Mbit/s

95th percentile per-packet one-way delay: 0.812 ms

Loss rate: 0.01%

Run 3: Report of Indigo — Data Link





Run 4: Statistics of Indigo

Start at: 2019-07-18 06:32:16

End at: 2019-07-18 06:32:46

Local clock offset: 3.391 ms

Remote clock offset: 0.653 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 180.32 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.00%

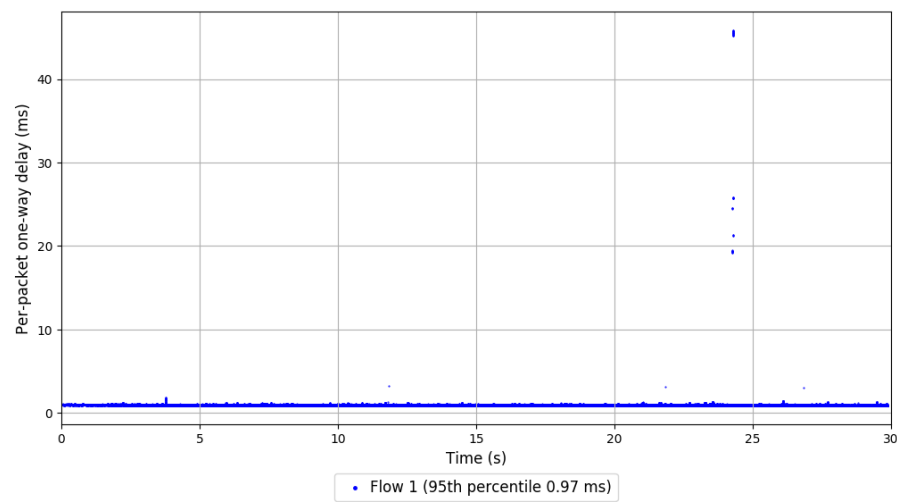
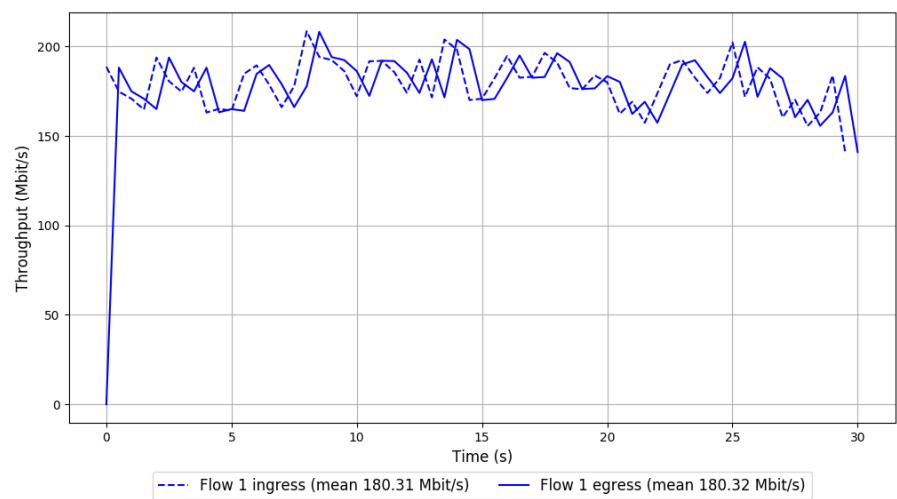
-- Flow 1:

Average throughput: 180.32 Mbit/s

95th percentile per-packet one-way delay: 0.966 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-07-18 07:05:46

End at: 2019-07-18 07:06:16

Local clock offset: 1.701 ms

Remote clock offset: 0.687 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.16 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.01%

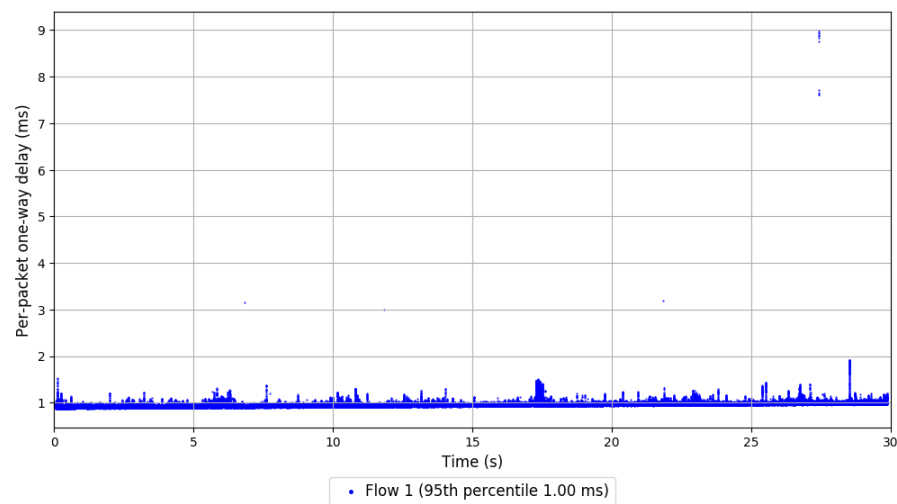
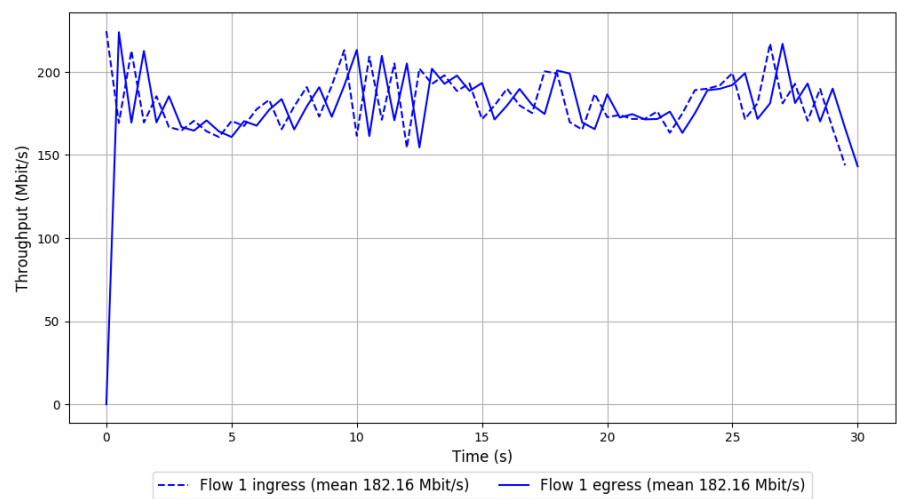
-- Flow 1:

Average throughput: 182.16 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link

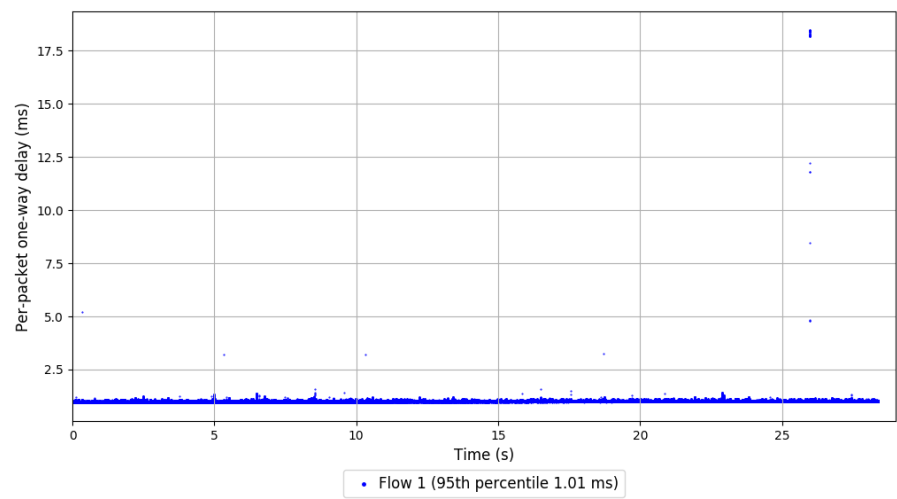
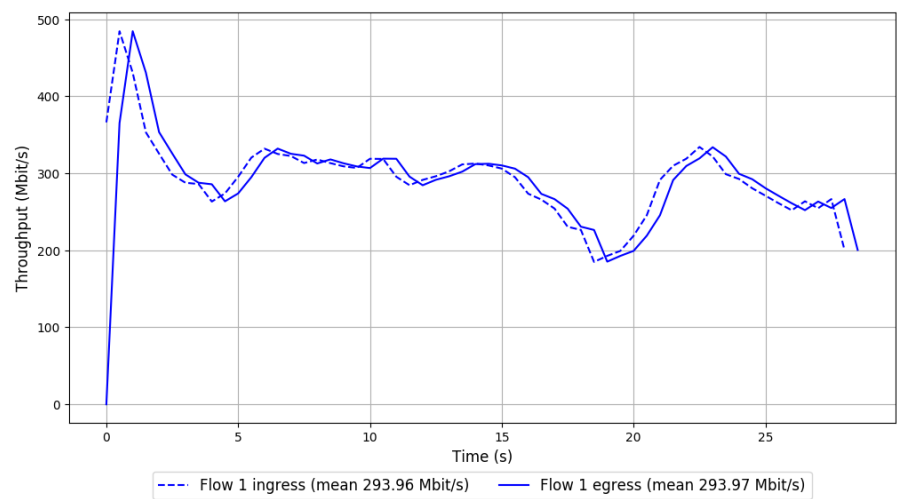


```
Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-18 04:48:11
End at: 2019-07-18 04:48:41
Local clock offset: -0.111 ms
Remote clock offset: 0.385 ms

# Below is generated by plot.py at 2019-07-18 08:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.97 Mbit/s
95th percentile per-packet one-way delay: 1.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 293.97 Mbit/s
95th percentile per-packet one-way delay: 1.011 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-18 05:21:26

End at: 2019-07-18 05:21:56

Local clock offset: -0.276 ms

Remote clock offset: 0.458 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 320.05 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 0.00%

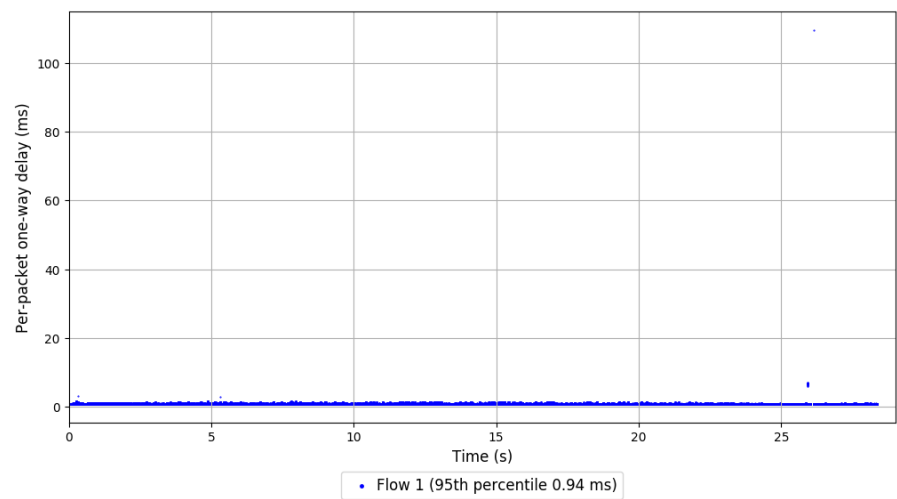
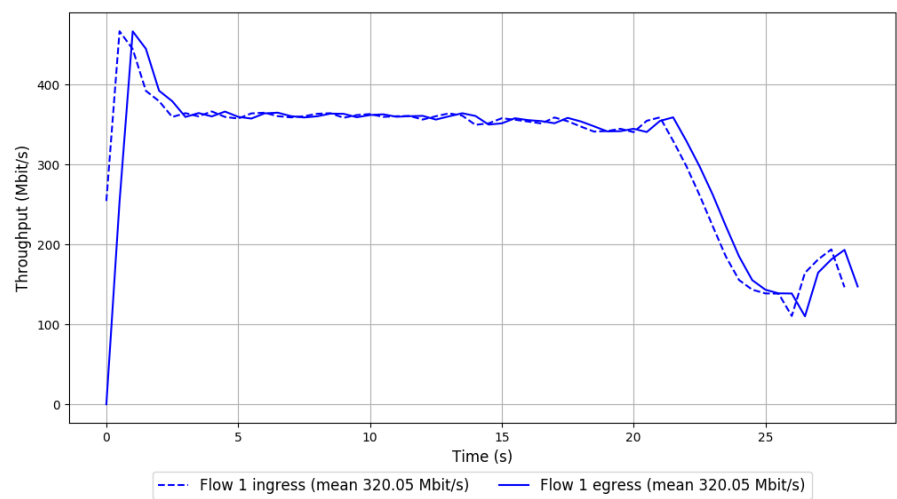
-- Flow 1:

Average throughput: 320.05 Mbit/s

95th percentile per-packet one-way delay: 0.942 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-18 05:54:51

End at: 2019-07-18 05:55:21

Local clock offset: -0.19 ms

Remote clock offset: 1.647 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 276.74 Mbit/s

95th percentile per-packet one-way delay: 0.876 ms

Loss rate: 0.01%

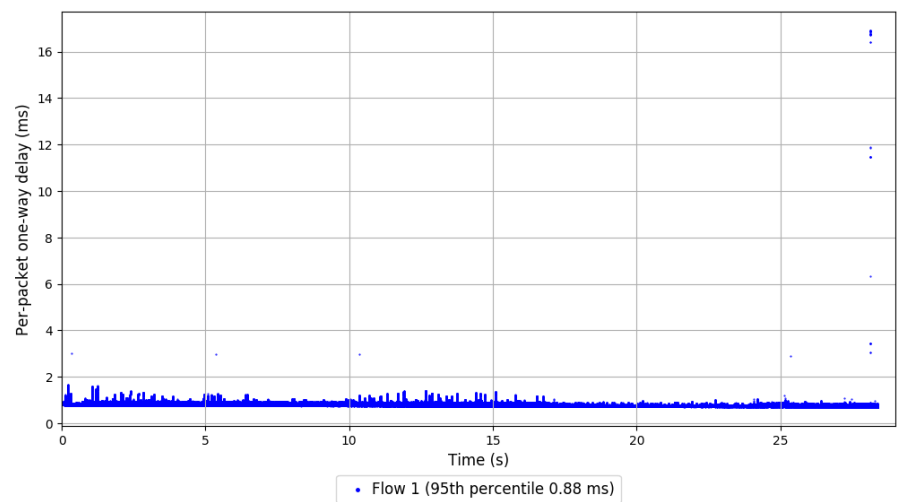
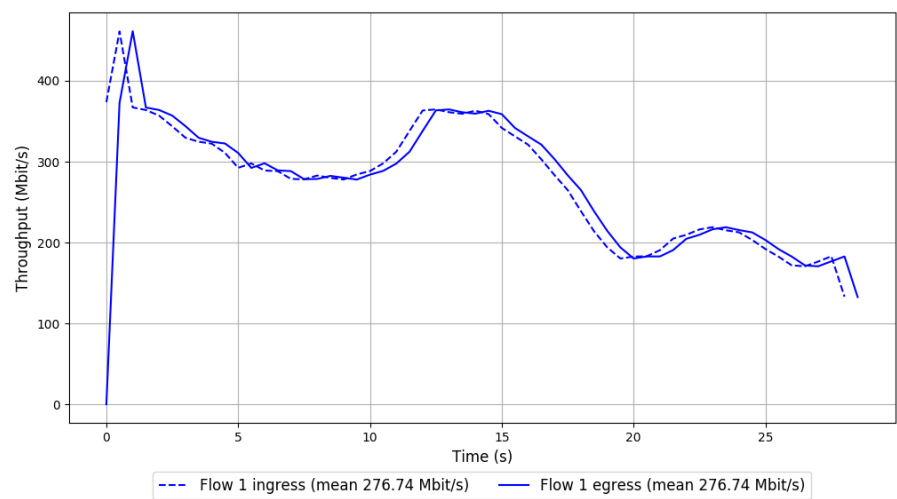
-- Flow 1:

Average throughput: 276.74 Mbit/s

95th percentile per-packet one-way delay: 0.876 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-18 06:28:08

End at: 2019-07-18 06:28:38

Local clock offset: 3.566 ms

Remote clock offset: 1.517 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.41 Mbit/s

95th percentile per-packet one-way delay: 0.927 ms

Loss rate: 0.01%

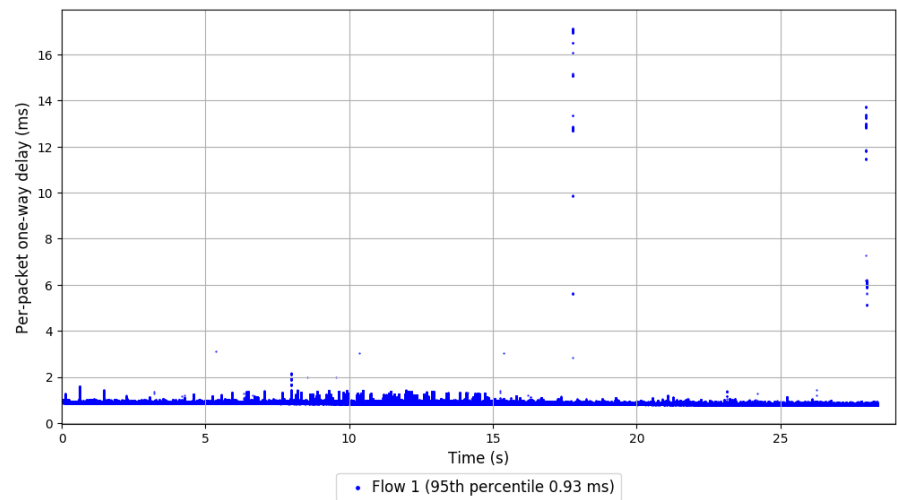
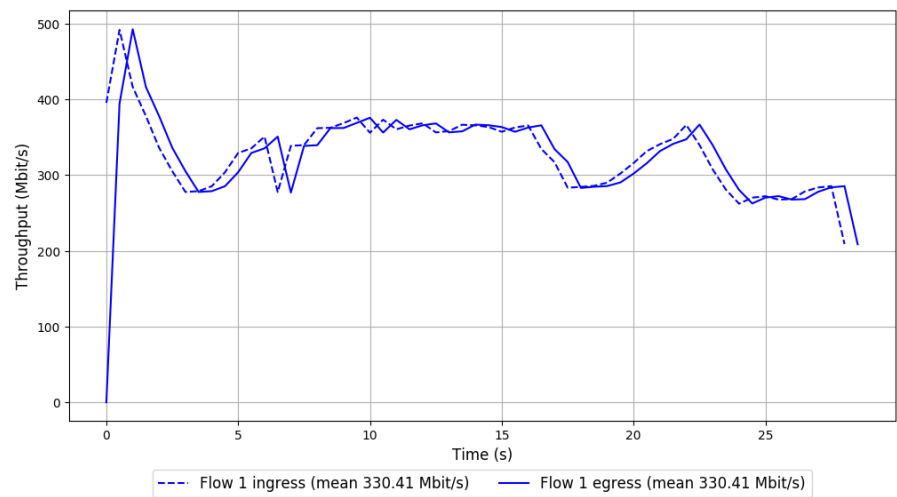
-- Flow 1:

Average throughput: 330.41 Mbit/s

95th percentile per-packet one-way delay: 0.927 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-18 07:01:44

End at: 2019-07-18 07:02:14

Local clock offset: 2.123 ms

Remote clock offset: 0.161 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 283.22 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.00%

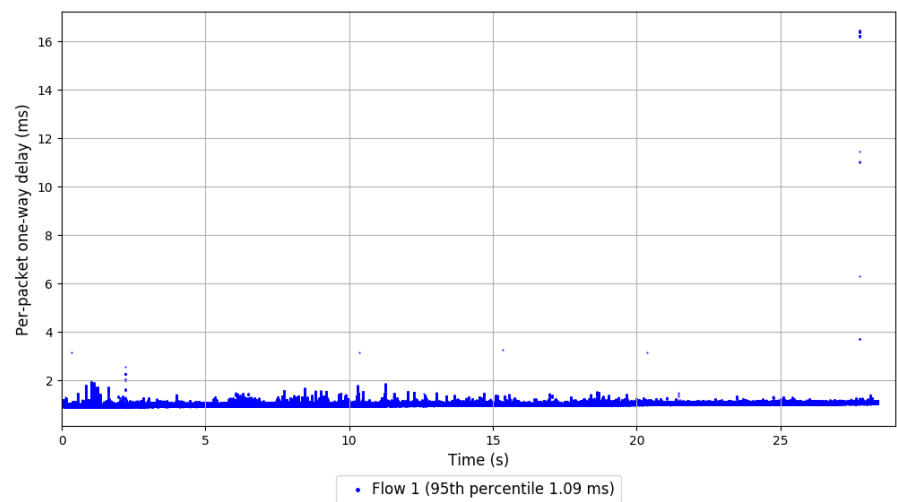
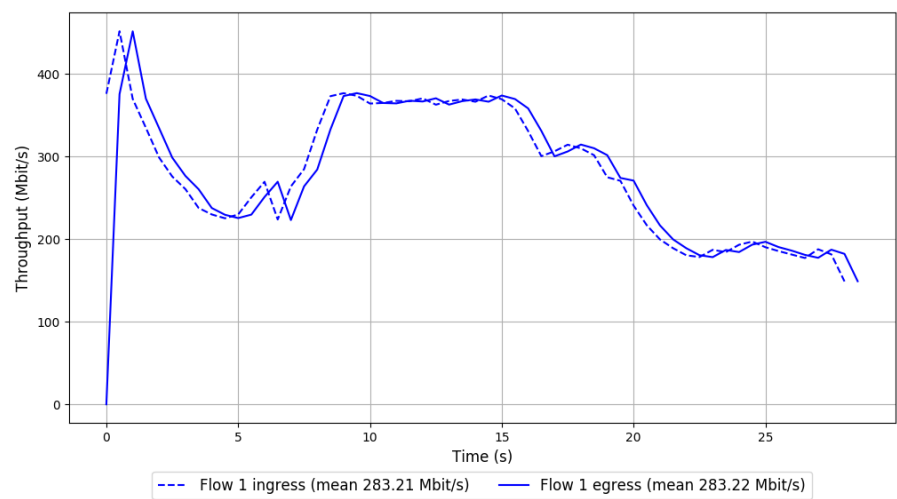
-- Flow 1:

Average throughput: 283.22 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-18 04:50:55

End at: 2019-07-18 04:51:25

Local clock offset: -0.162 ms

Remote clock offset: 0.594 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.00%

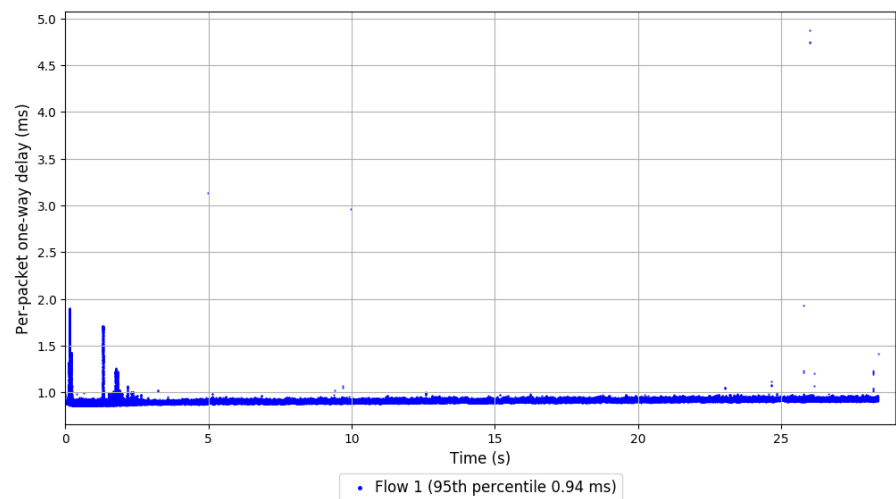
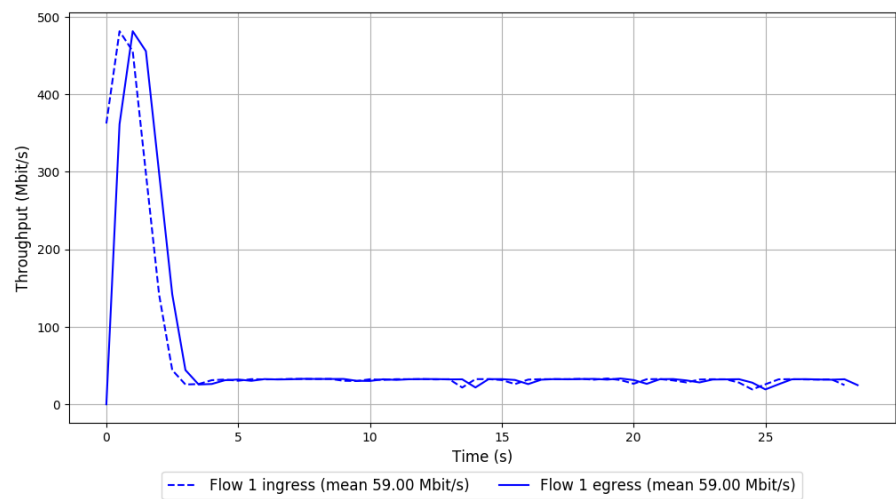
-- Flow 1:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-18 05:24:11

End at: 2019-07-18 05:24:41

Local clock offset: -0.322 ms

Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.94 Mbit/s

95th percentile per-packet one-way delay: 0.944 ms

Loss rate: 0.00%

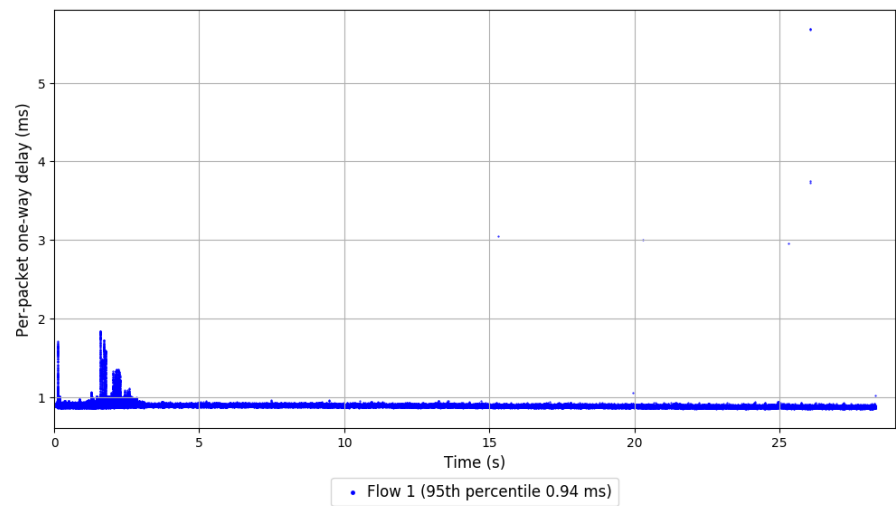
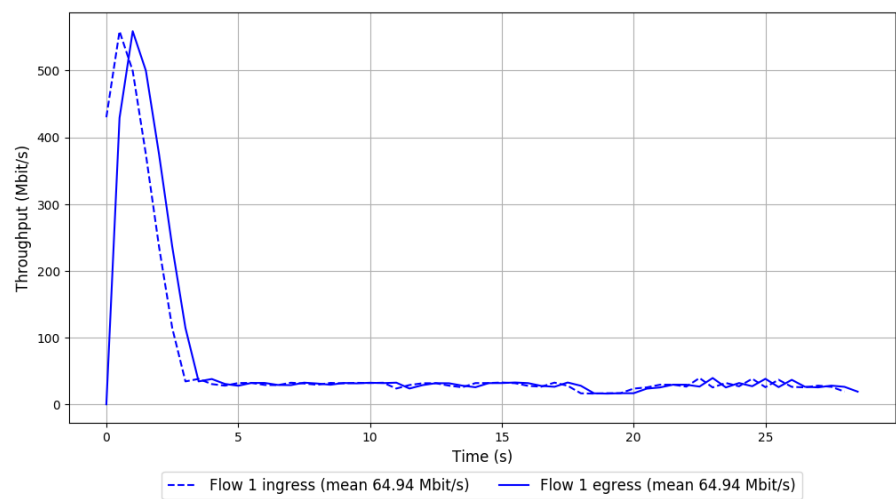
-- Flow 1:

Average throughput: 64.94 Mbit/s

95th percentile per-packet one-way delay: 0.944 ms

Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-18 05:57:35

End at: 2019-07-18 05:58:05

Local clock offset: 0.693 ms

Remote clock offset: 2.17 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 108.40 Mbit/s

95th percentile per-packet one-way delay: 0.747 ms

Loss rate: 0.01%

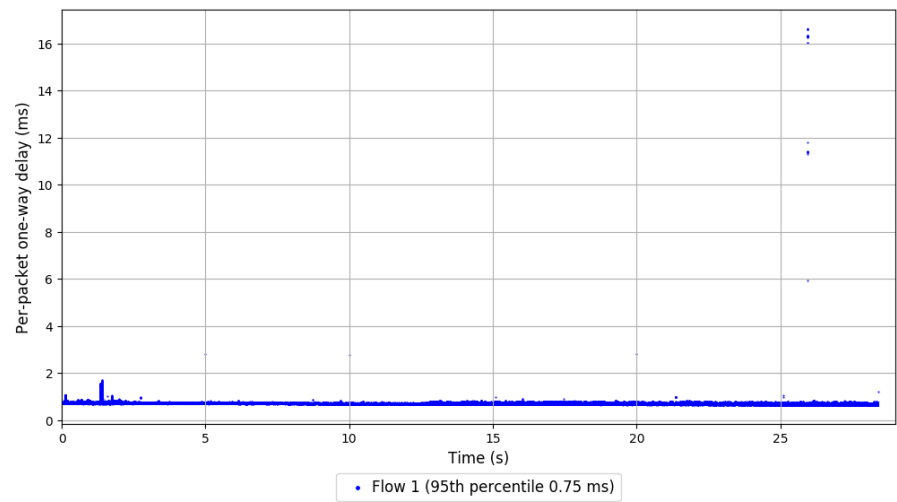
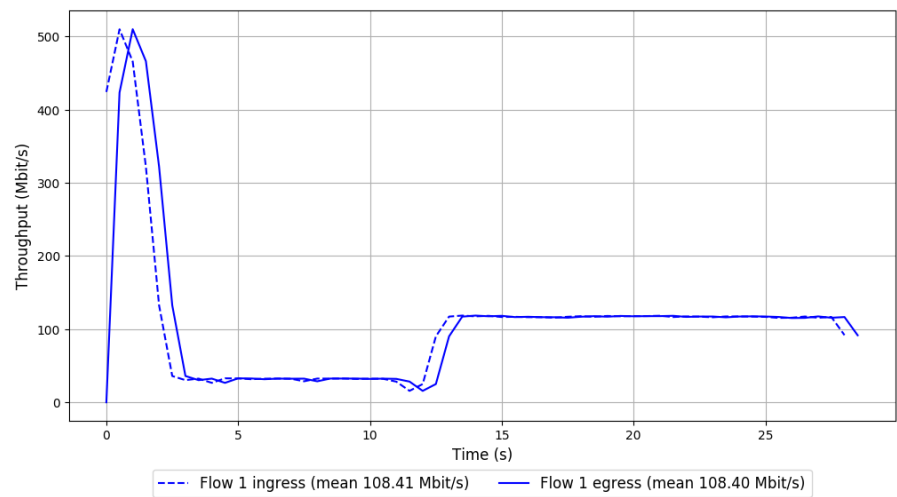
-- Flow 1:

Average throughput: 108.40 Mbit/s

95th percentile per-packet one-way delay: 0.747 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-18 06:30:53

End at: 2019-07-18 06:31:23

Local clock offset: 3.407 ms

Remote clock offset: 0.926 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 288.99 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.01%

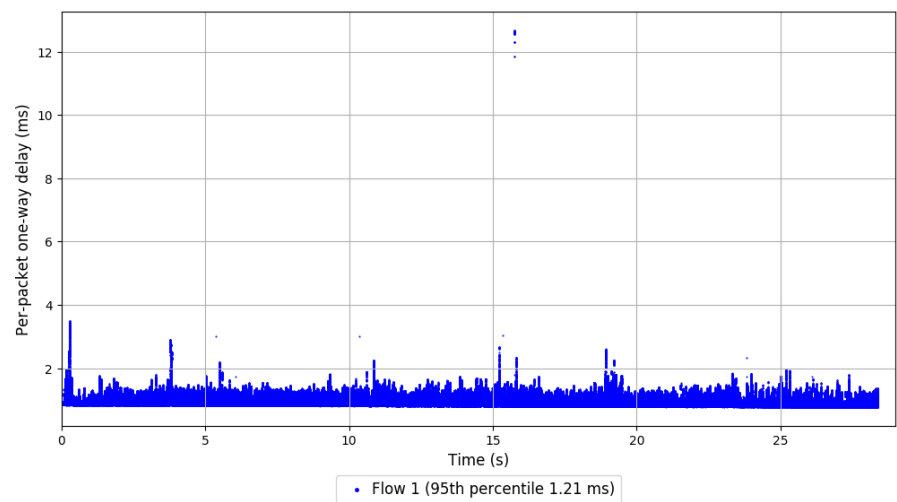
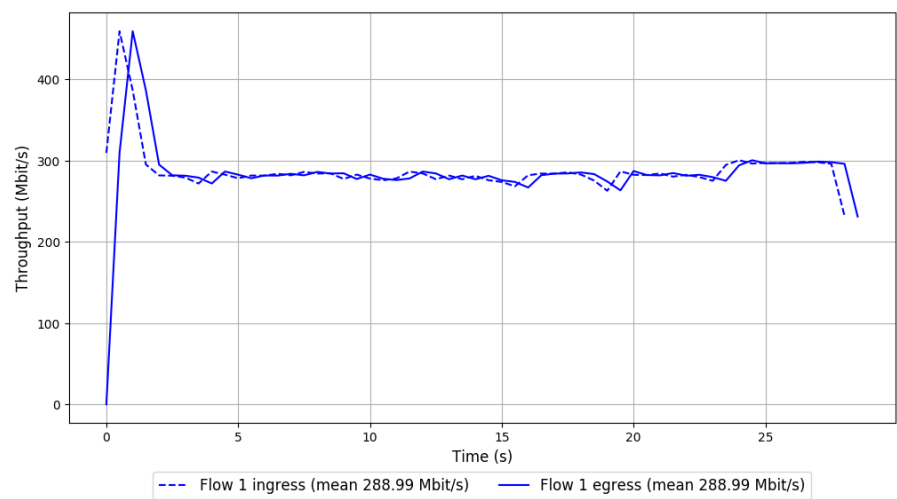
-- Flow 1:

Average throughput: 288.99 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-18 07:04:27

End at: 2019-07-18 07:04:57

Local clock offset: 1.807 ms

Remote clock offset: 0.495 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 175.31 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.00%

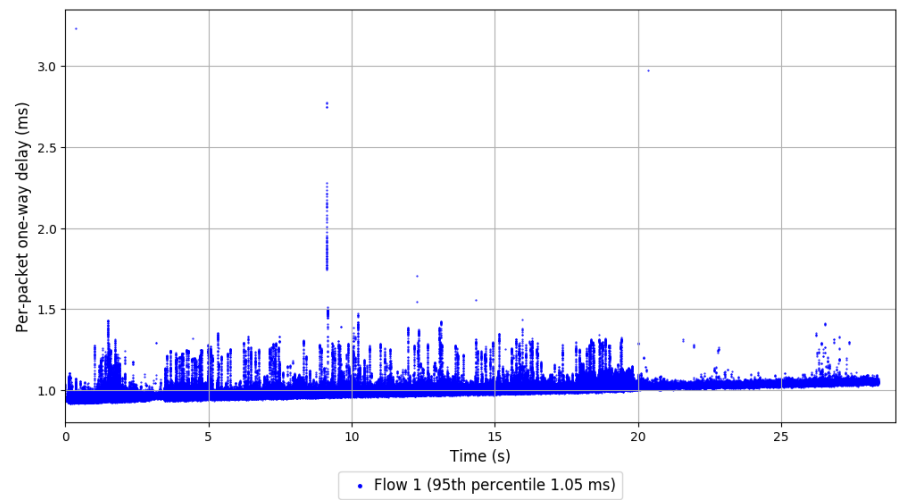
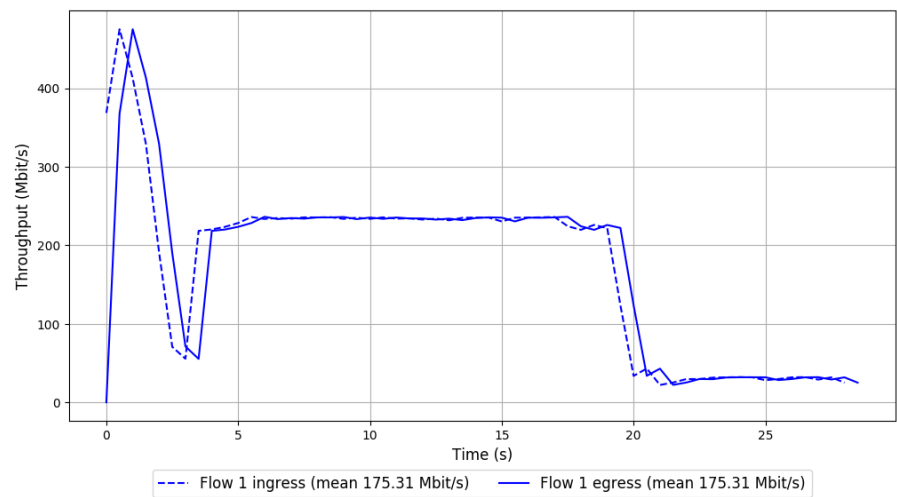
-- Flow 1:

Average throughput: 175.31 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-18 04:53:31

End at: 2019-07-18 04:54:02

Local clock offset: -0.24 ms

Remote clock offset: 0.686 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.00%

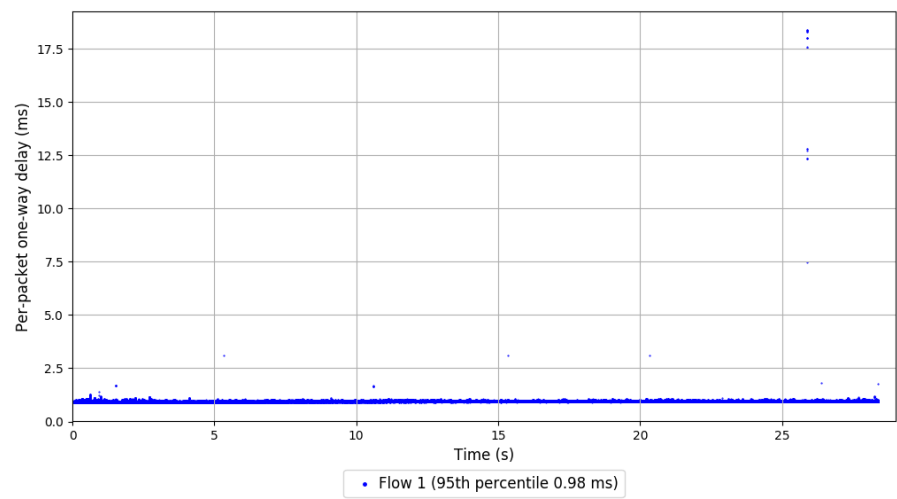
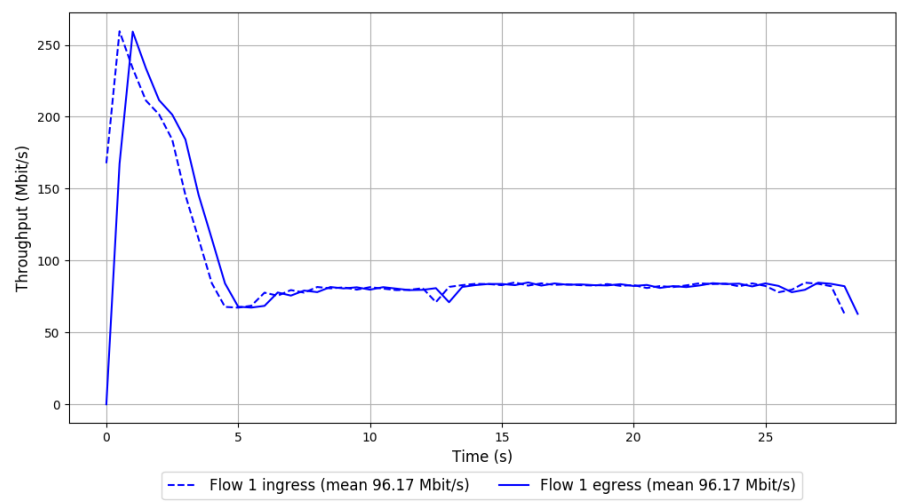
-- Flow 1:

Average throughput: 96.17 Mbit/s

95th percentile per-packet one-way delay: 0.976 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-18 05:26:48

End at: 2019-07-18 05:27:18

Local clock offset: -0.288 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 99.66 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.01%

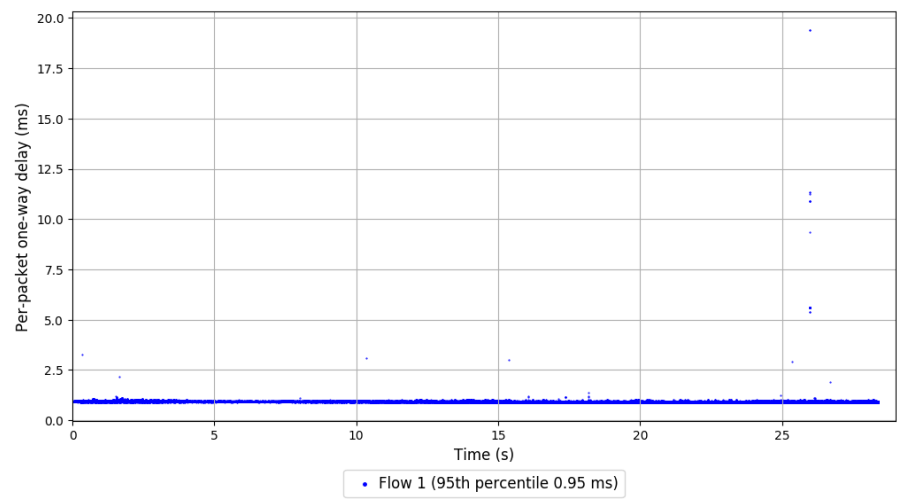
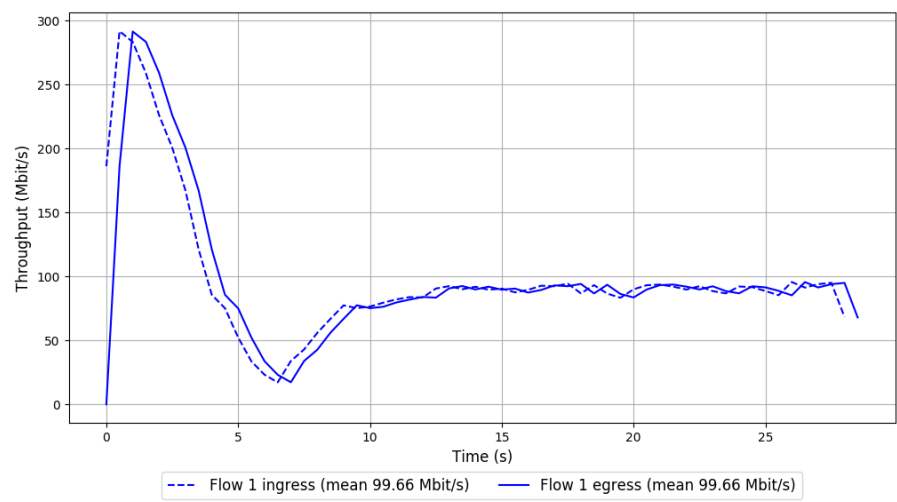
-- Flow 1:

Average throughput: 99.66 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-18 06:00:13

End at: 2019-07-18 06:00:43

Local clock offset: 1.386 ms

Remote clock offset: 2.532 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 99.29 Mbit/s

95th percentile per-packet one-way delay: 0.790 ms

Loss rate: 0.01%

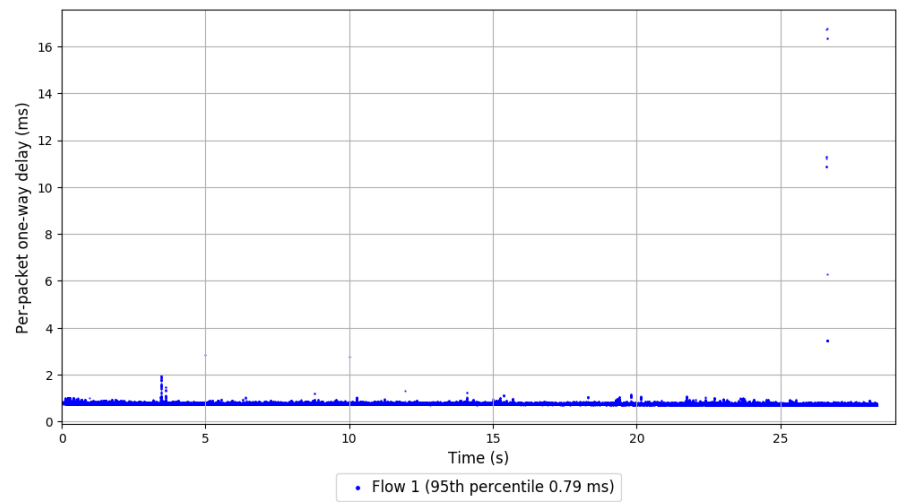
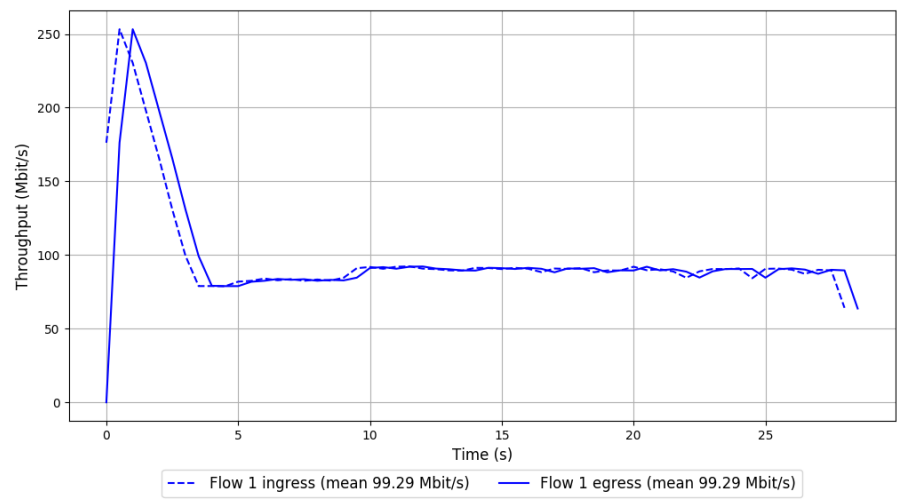
-- Flow 1:

Average throughput: 99.29 Mbit/s

95th percentile per-packet one-way delay: 0.790 ms

Loss rate: 0.01%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-18 06:33:37

End at: 2019-07-18 06:34:07

Local clock offset: 3.292 ms

Remote clock offset: 0.468 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.00%

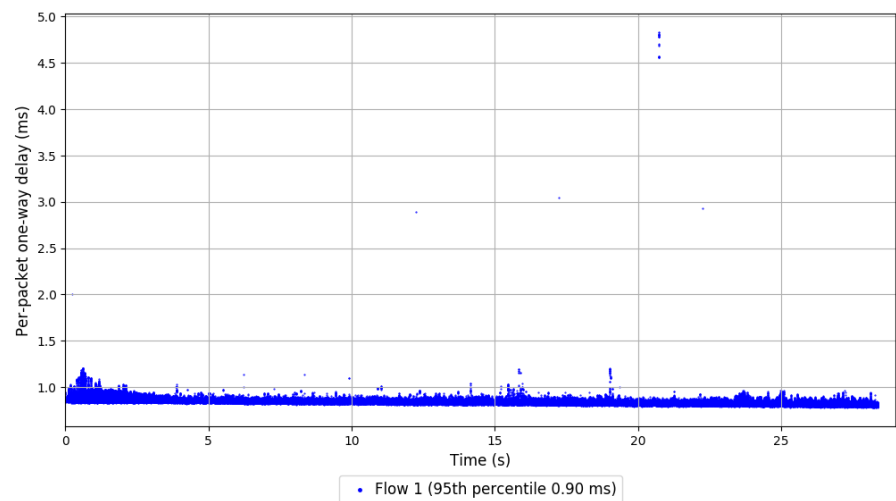
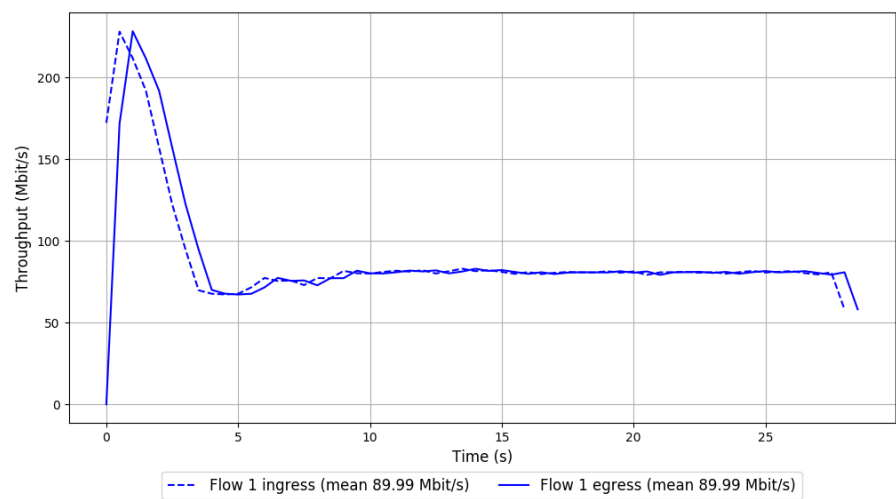
-- Flow 1:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-18 07:07:07

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

Local clock offset: 1.589 ms

Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.01%

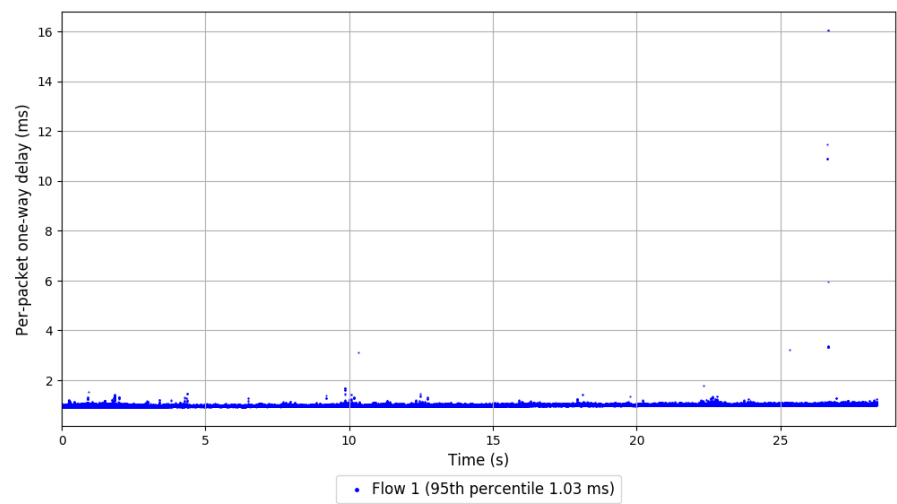
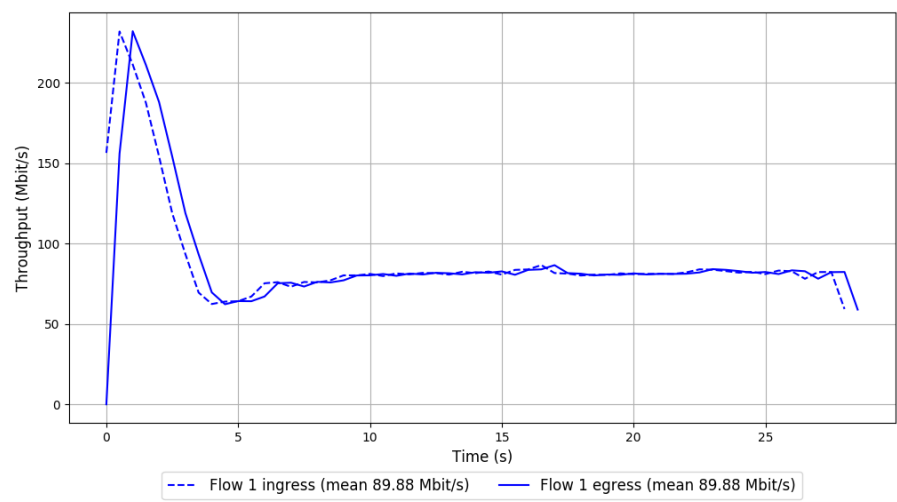
-- Flow 1:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesD — Data Link

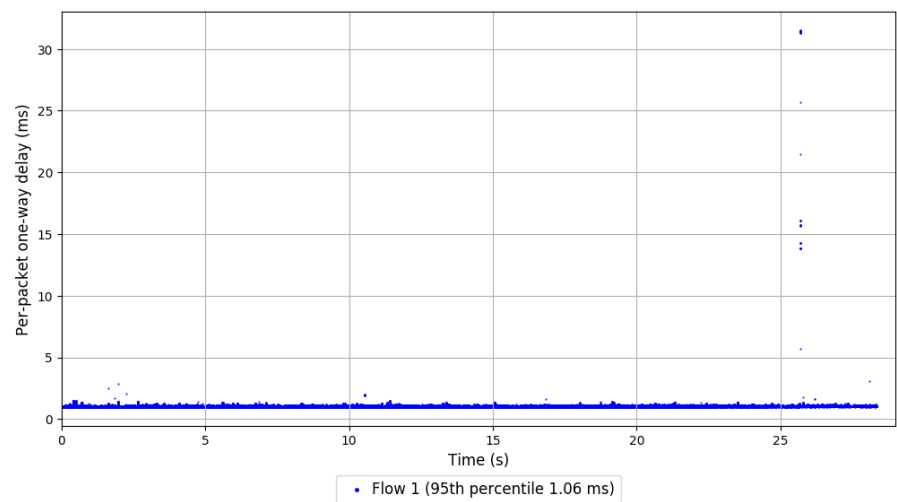
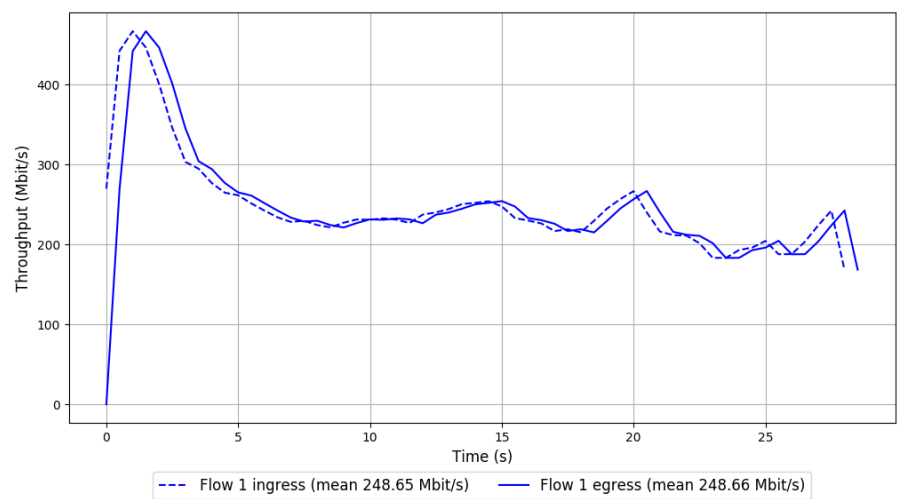


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-18 04:49:33
End at: 2019-07-18 04:50:03
Local clock offset: -0.133 ms
Remote clock offset: 0.43 ms

# Below is generated by plot.py at 2019-07-18 08:20:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.66 Mbit/s
95th percentile per-packet one-way delay: 1.063 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.66 Mbit/s
95th percentile per-packet one-way delay: 1.063 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-18 05:22:50

End at: 2019-07-18 05:23:20

Local clock offset: -0.294 ms

Remote clock offset: 0.274 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 259.10 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.01%

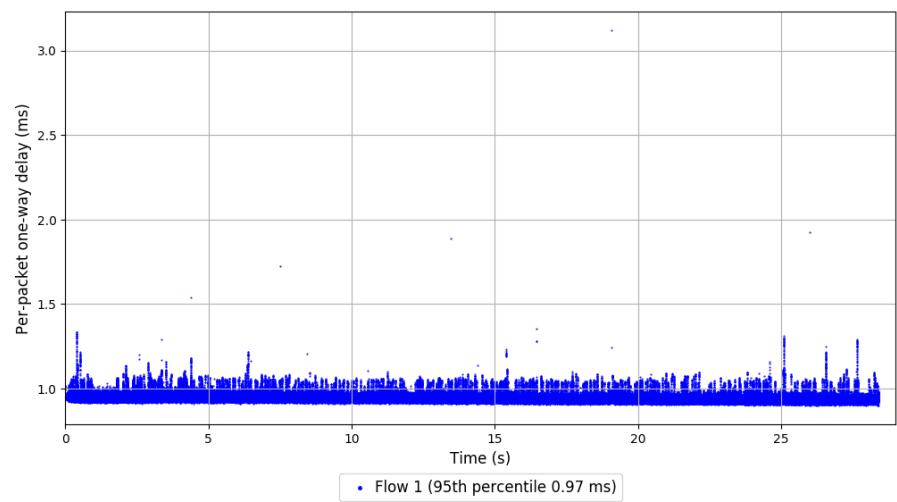
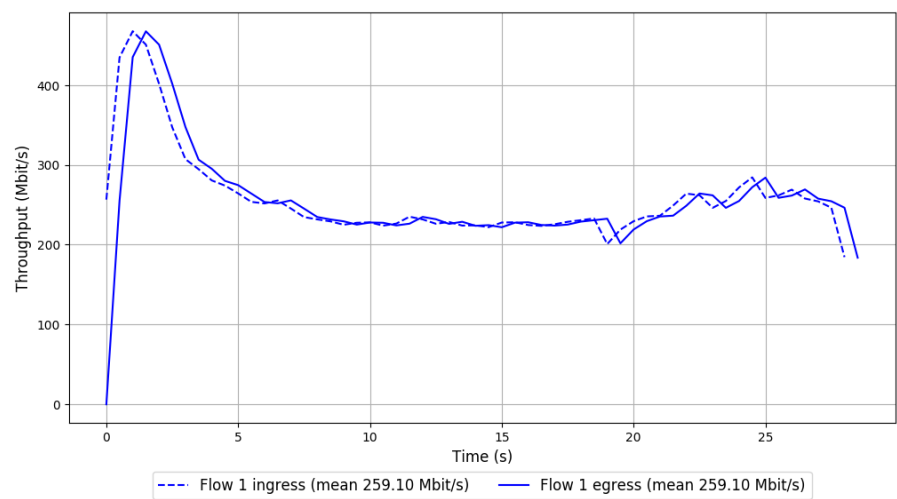
-- Flow 1:

Average throughput: 259.10 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.01%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-18 05:56:13

End at: 2019-07-18 05:56:43

Local clock offset: 0.201 ms

Remote clock offset: 1.926 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 264.13 Mbit/s

95th percentile per-packet one-way delay: 0.770 ms

Loss rate: 0.00%

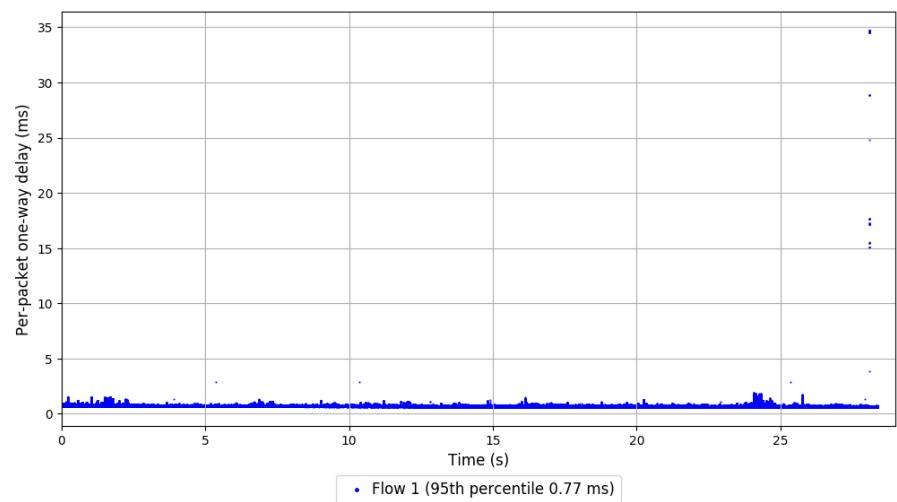
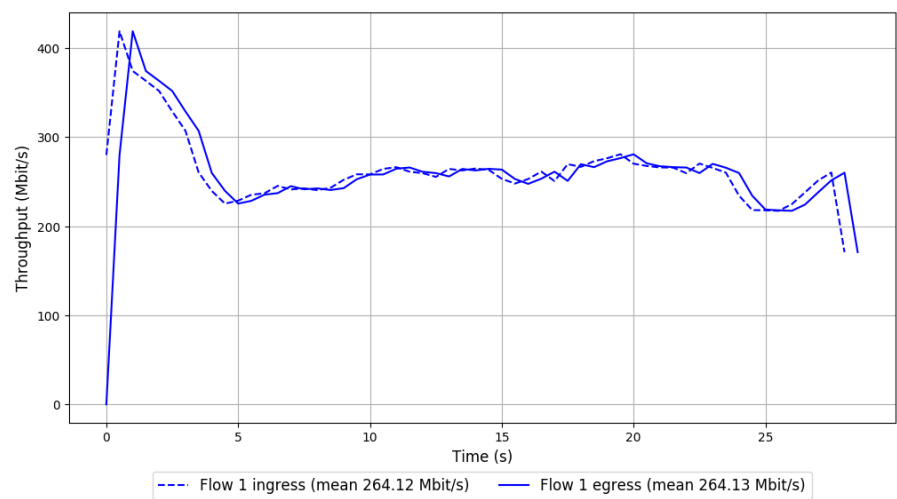
-- Flow 1:

Average throughput: 264.13 Mbit/s

95th percentile per-packet one-way delay: 0.770 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-18 06:29:32

End at: 2019-07-18 06:30:02

Local clock offset: 3.538 ms

Remote clock offset: 1.275 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 257.10 Mbit/s

95th percentile per-packet one-way delay: 0.870 ms

Loss rate: 0.01%

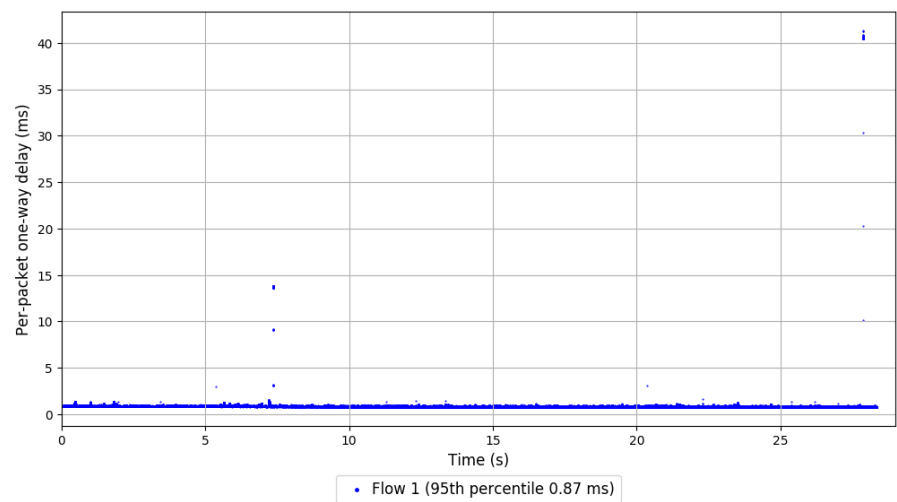
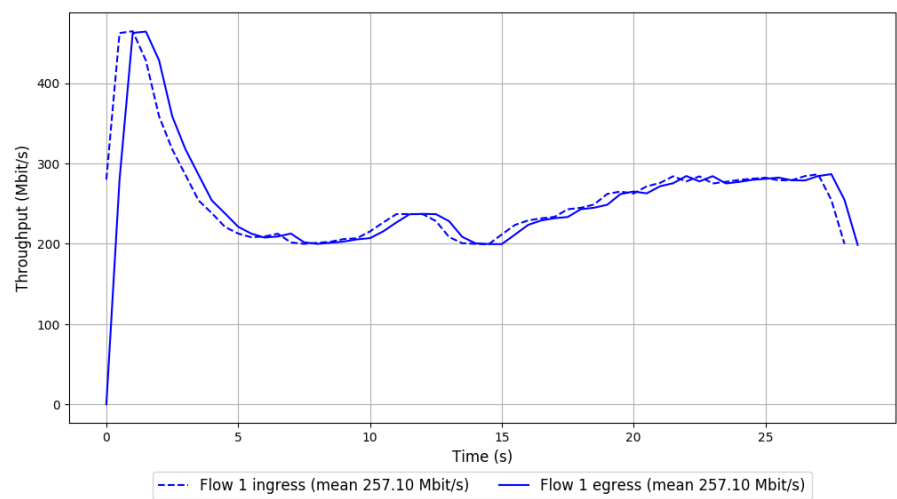
-- Flow 1:

Average throughput: 257.10 Mbit/s

95th percentile per-packet one-way delay: 0.870 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-18 07:03:06

End at: 2019-07-18 07:03:36

Local clock offset: 1.946 ms

Remote clock offset: 0.3 ms

# Below is generated by plot.py at 2019-07-18 08:20:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 230.29 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.01%

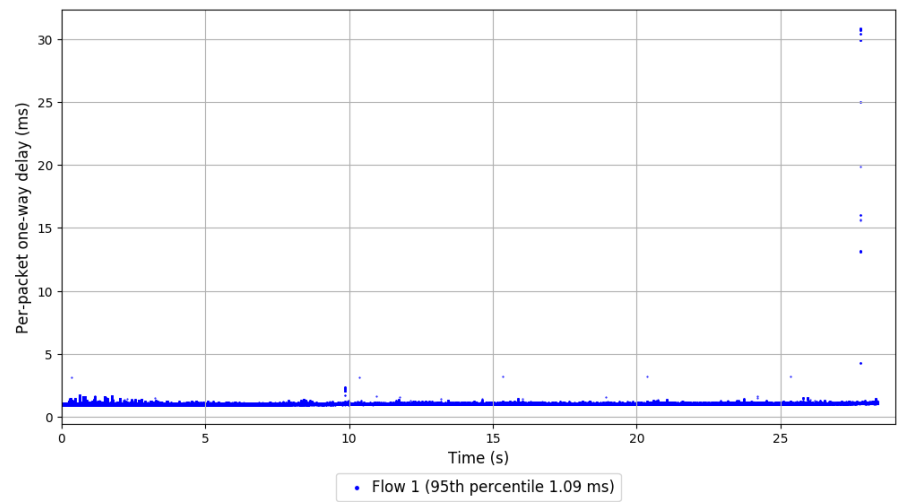
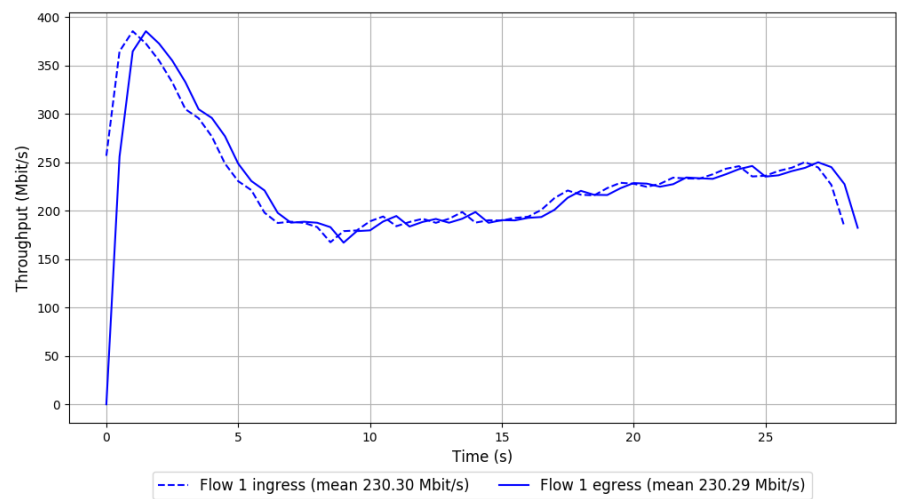
-- Flow 1:

Average throughput: 230.29 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.01%

Run 5: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

Start at: 2019-07-18 05:08:57

End at: 2019-07-18 05:09:27

Local clock offset: -0.067 ms

Remote clock offset: 1.3 ms

# Below is generated by plot.py at 2019-07-18 08:21:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 508.63 Mbit/s

95th percentile per-packet one-way delay: 10.054 ms

Loss rate: 0.01%

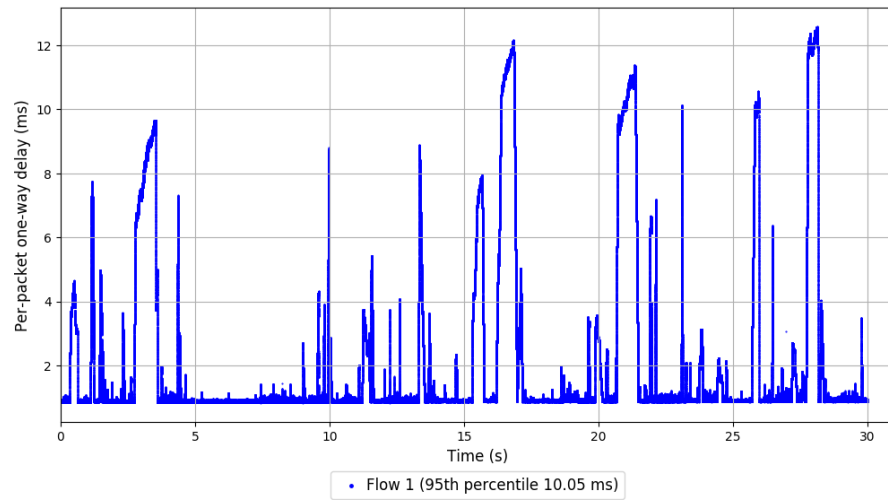
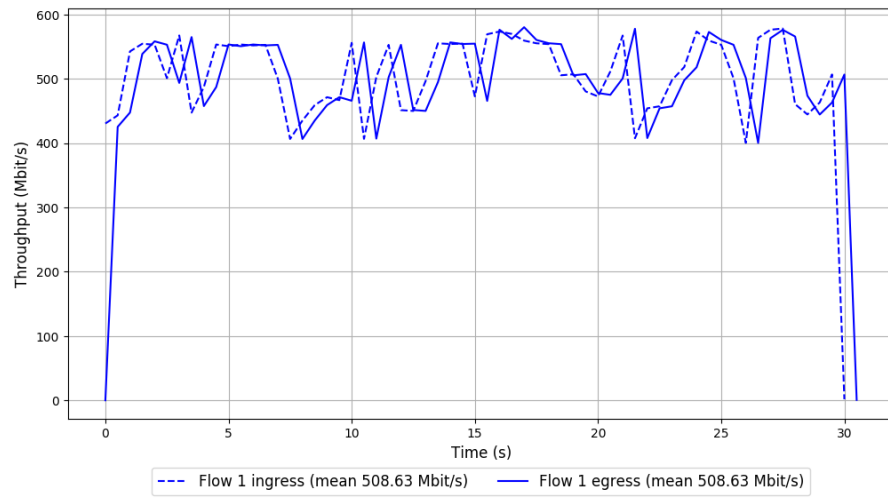
-- Flow 1:

Average throughput: 508.63 Mbit/s

95th percentile per-packet one-way delay: 10.054 ms

Loss rate: 0.01%

## Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-07-18 05:42:10

End at: 2019-07-18 05:42:40

Local clock offset: -0.225 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-07-18 08:21:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 509.36 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.01%

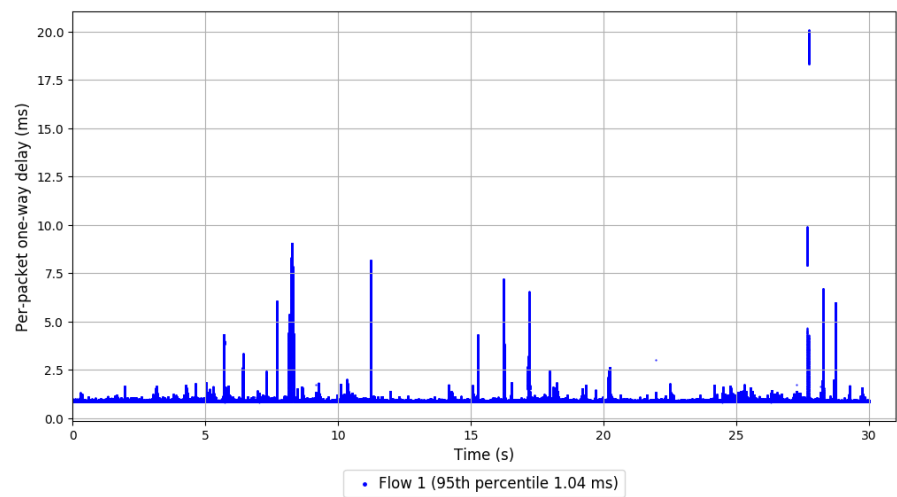
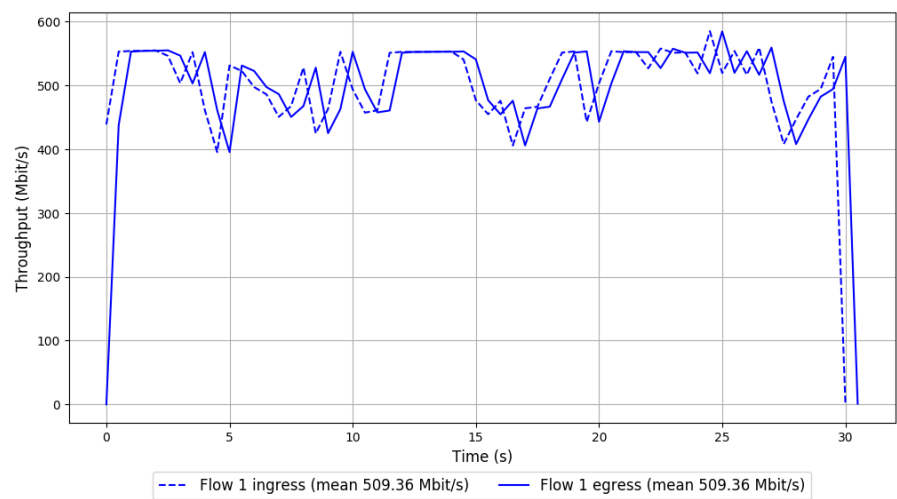
-- Flow 1:

Average throughput: 509.36 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-07-18 06:15:39

End at: 2019-07-18 06:16:09

Local clock offset: 3.328 ms

Remote clock offset: 3.658 ms

# Below is generated by plot.py at 2019-07-18 08:22:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 465.46 Mbit/s

95th percentile per-packet one-way delay: 9.668 ms

Loss rate: 0.01%

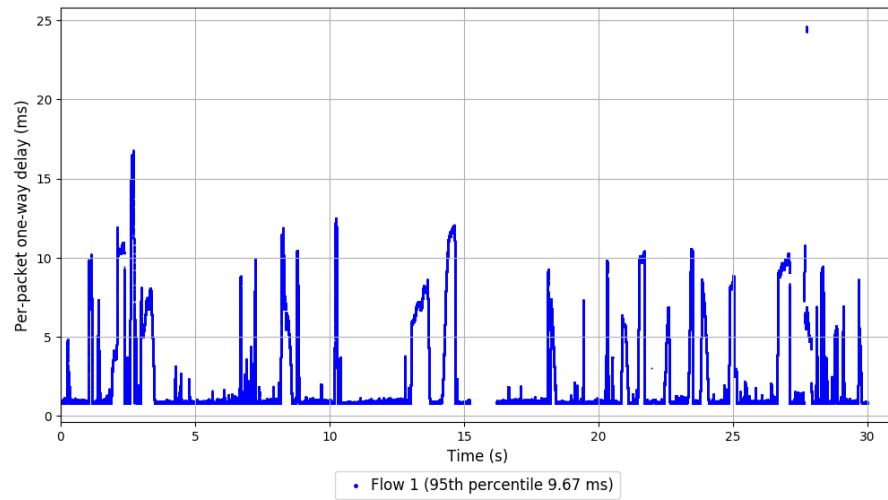
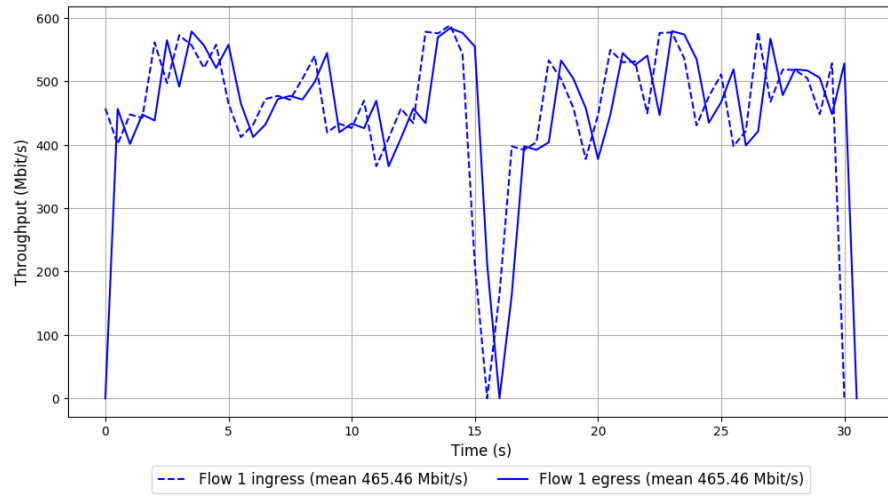
-- Flow 1:

Average throughput: 465.46 Mbit/s

95th percentile per-packet one-way delay: 9.668 ms

Loss rate: 0.01%

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

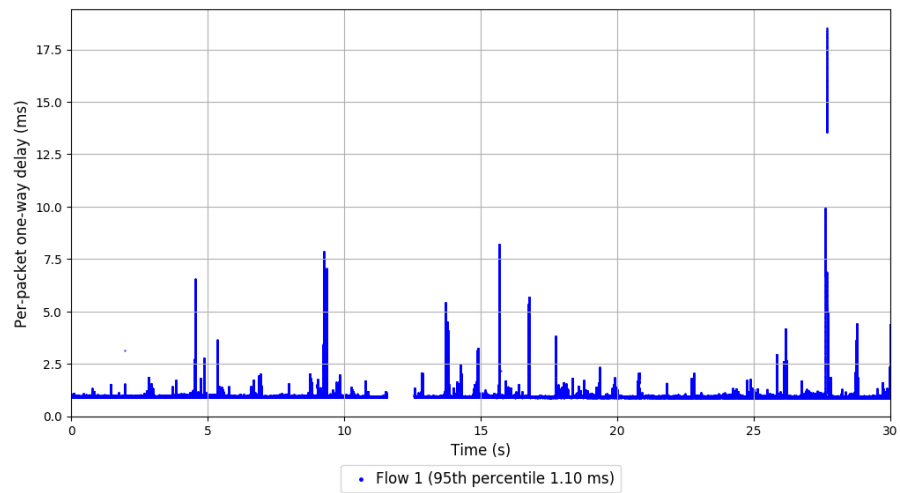
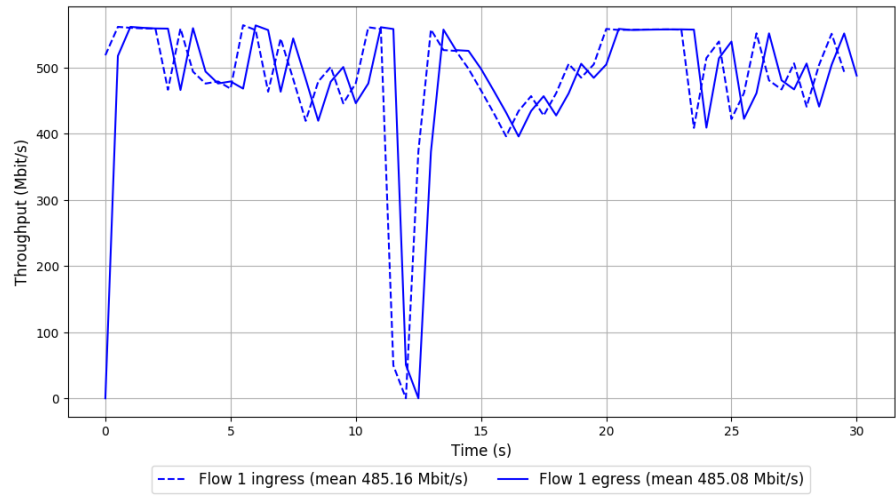


Run 4: Statistics of LEDBAT

Start at: 2019-07-18 06:48:58  
End at: 2019-07-18 06:49:28  
Local clock offset: 3.3 ms  
Remote clock offset: -0.842 ms

# Below is generated by plot.py at 2019-07-18 08:22:42  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 485.08 Mbit/s  
95th percentile per-packet one-way delay: 1.104 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 485.08 Mbit/s  
95th percentile per-packet one-way delay: 1.104 ms  
Loss rate: 0.02%

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



Run 5: Statistics of LEDBAT

Start at: 2019-07-18 07:22:26

End at: 2019-07-18 07:22:56

Local clock offset: 0.998 ms

Remote clock offset: 1.705 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 466.34 Mbit/s

95th percentile per-packet one-way delay: 4.377 ms

Loss rate: 0.00%

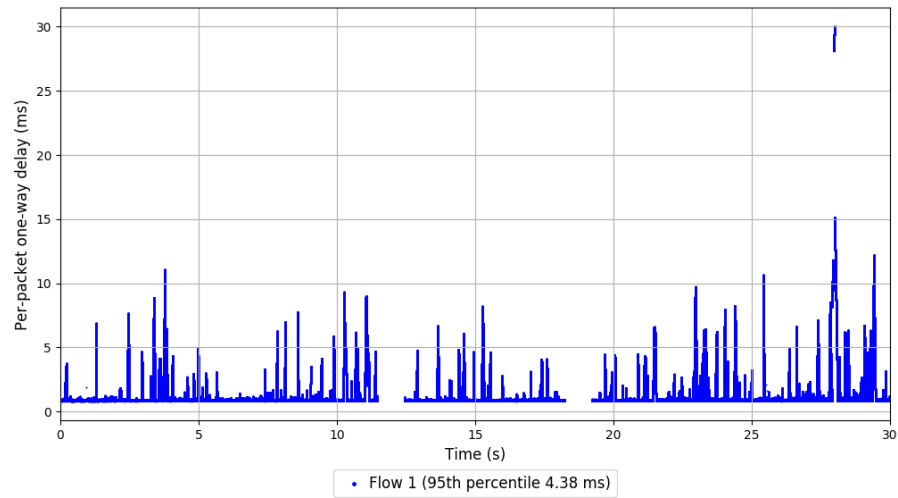
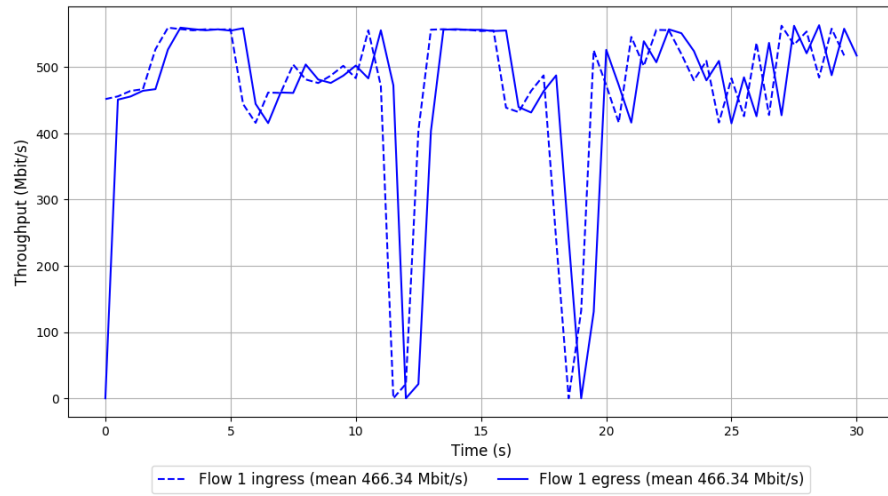
-- Flow 1:

Average throughput: 466.34 Mbit/s

95th percentile per-packet one-way delay: 4.377 ms

Loss rate: 0.00%

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

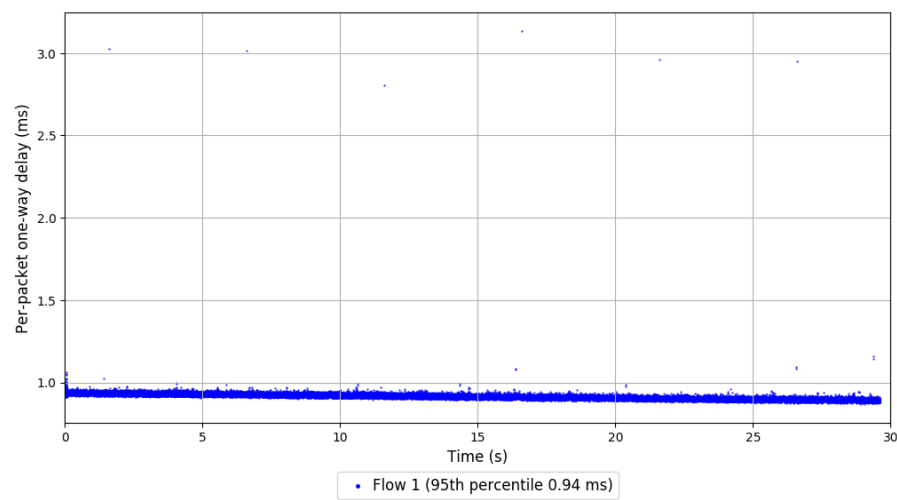
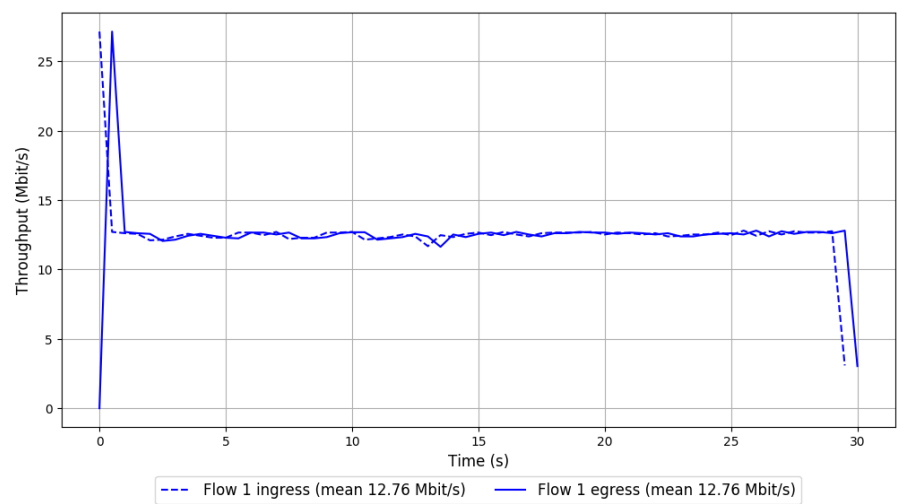


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-07-18 05:17:42
End at: 2019-07-18 05:18:12
Local clock offset: -0.188 ms
Remote clock offset: 0.722 ms

# Below is generated by plot.py at 2019-07-18 08:23:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 0.942 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.76 Mbit/s
95th percentile per-packet one-way delay: 0.942 ms
Loss rate: 0.01%
```

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 05:50:50

End at: 2019-07-18 05:51:20

Local clock offset: -0.196 ms

Remote clock offset: 0.831 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.38 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

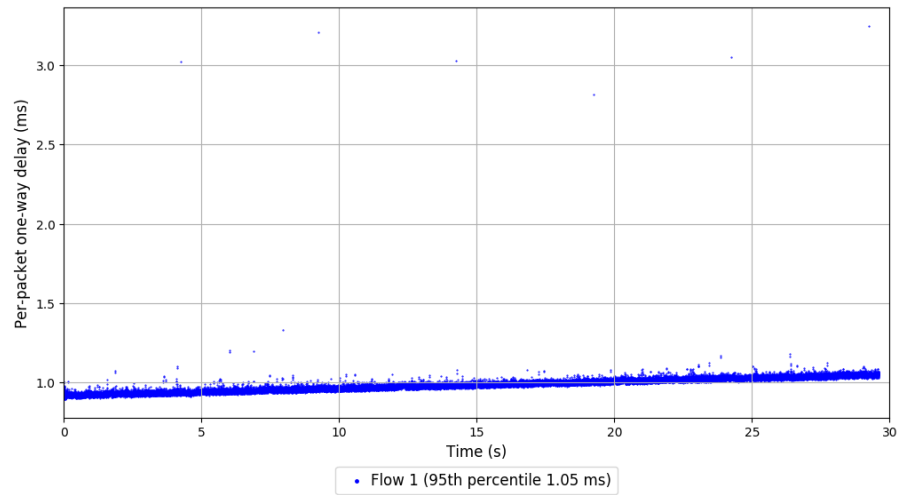
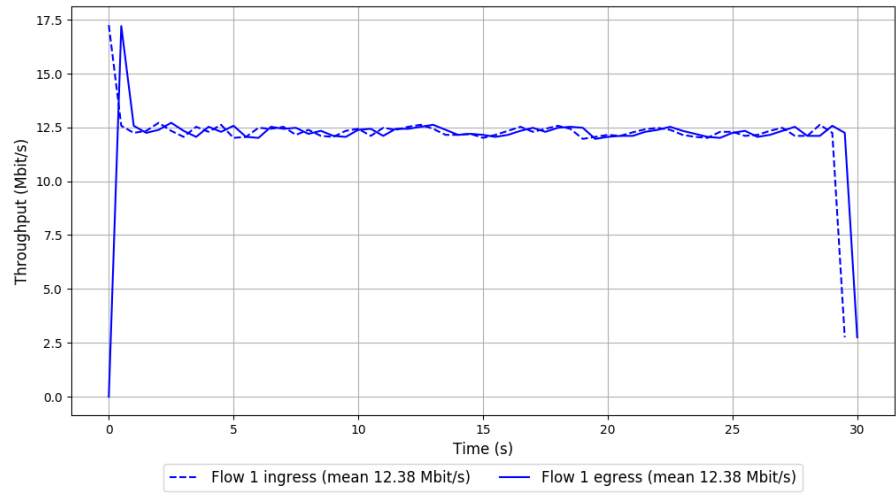
-- Flow 1:

Average throughput: 12.38 Mbit/s

95th percentile per-packet one-way delay: 1.047 ms

Loss rate: 0.01%

## Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 06:24:24

End at: 2019-07-18 06:24:54

Local clock offset: 3.867 ms

Remote clock offset: 2.742 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 0.809 ms

Loss rate: 0.01%

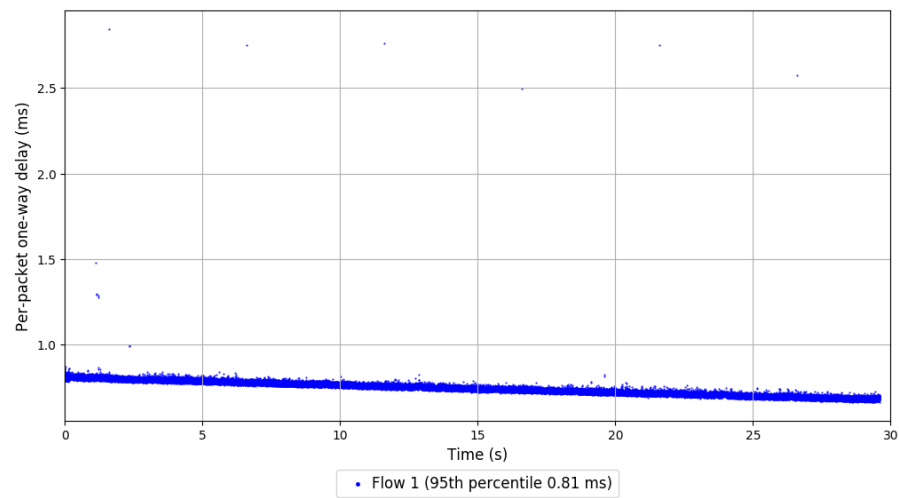
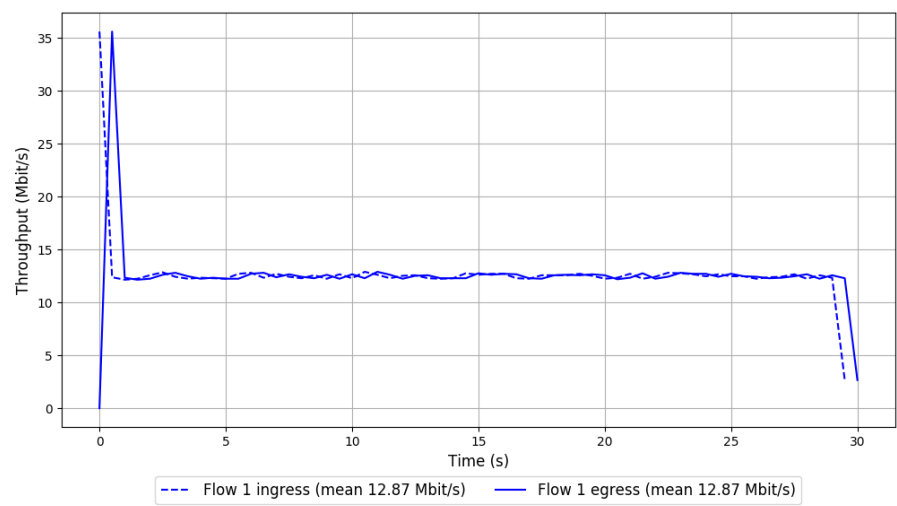
-- Flow 1:

Average throughput: 12.87 Mbit/s

95th percentile per-packet one-way delay: 0.809 ms

Loss rate: 0.01%

Run 3: Report of Muses\_DecisionTree — Data Link

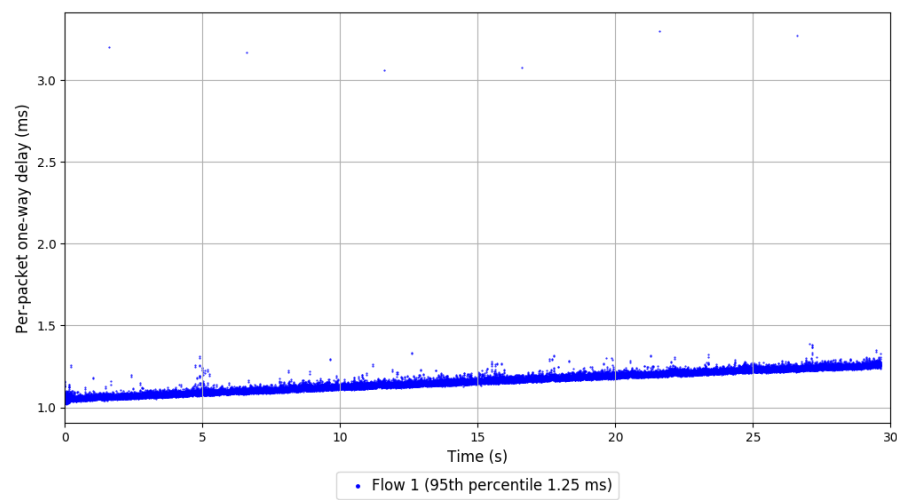
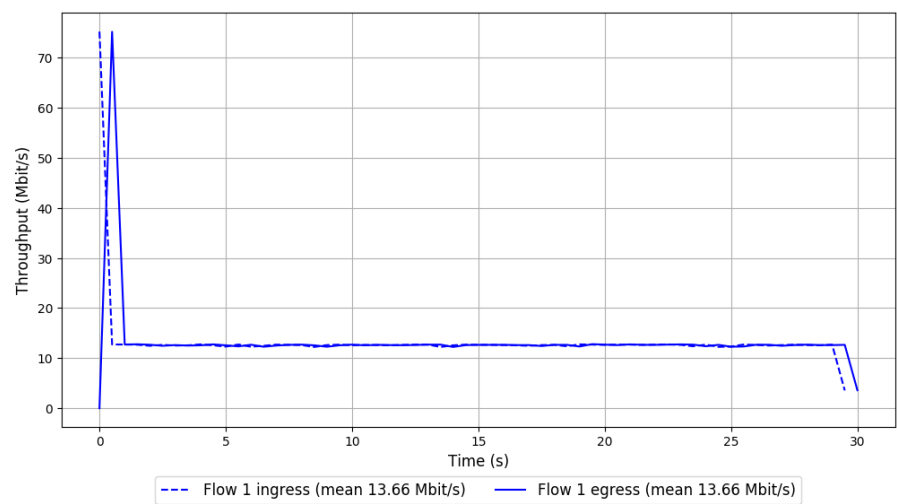


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 06:57:42  
End at: 2019-07-18 06:58:12  
Local clock offset: 2.721 ms  
Remote clock offset: -0.766 ms

# Below is generated by plot.py at 2019-07-18 08:23:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.66 Mbit/s  
95th percentile per-packet one-way delay: 1.250 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.66 Mbit/s  
95th percentile per-packet one-way delay: 1.250 ms  
Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 07:31:08

End at: 2019-07-18 07:31:38

Local clock offset: 0.282 ms

Remote clock offset: 1.826 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.01%

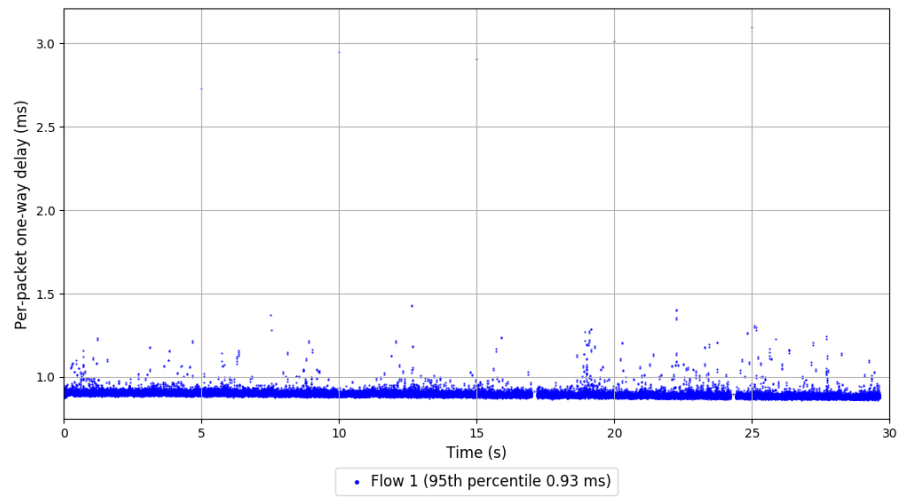
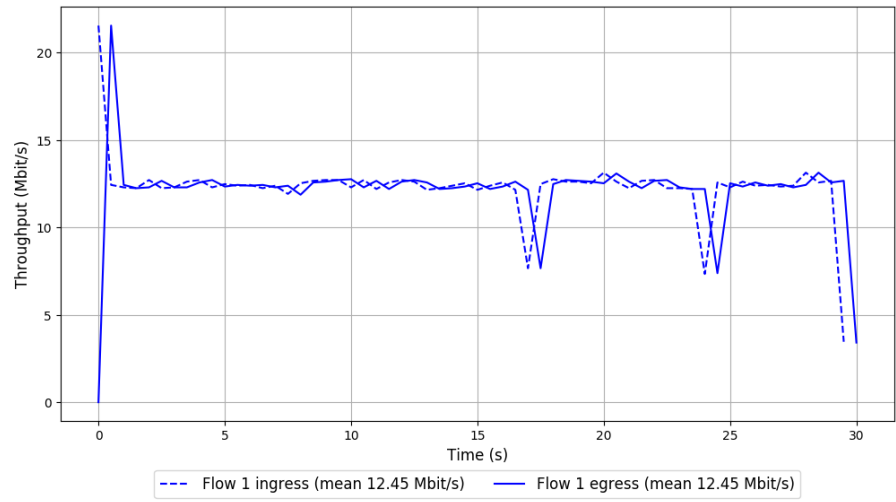
-- Flow 1:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.01%

# Run 5: Report of Muses\_DecisionTree — Data Link





Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 05:14:50

End at: 2019-07-18 05:15:20

Local clock offset: -0.133 ms

Remote clock offset: 1.154 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.43 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.01%

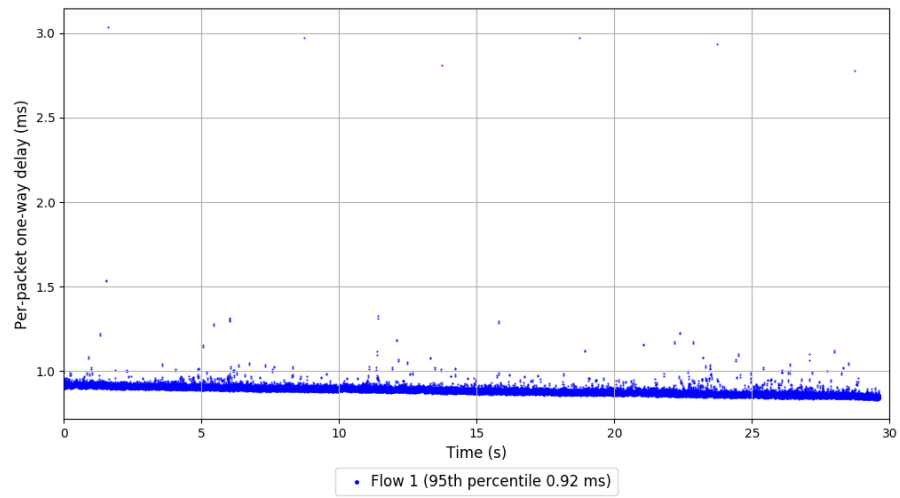
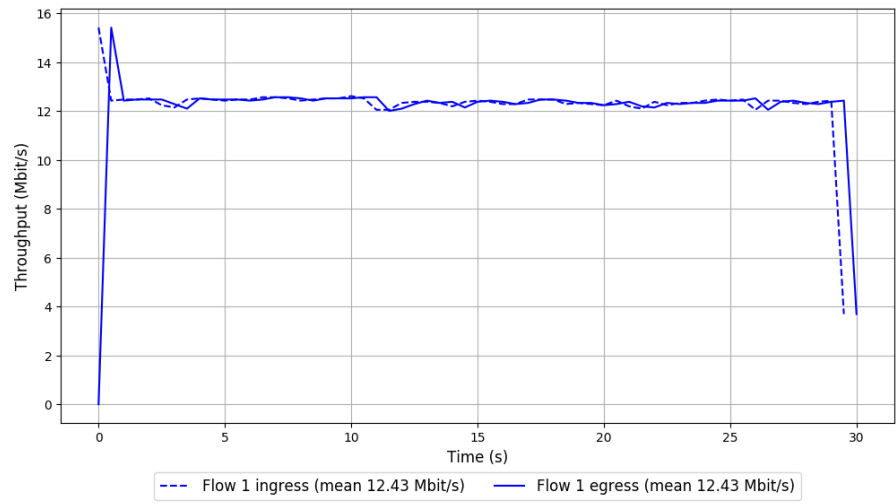
-- Flow 1:

Average throughput: 12.43 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.01%

# Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 05:47:58  
End at: 2019-07-18 05:48:28  
Local clock offset: -0.193 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.01%

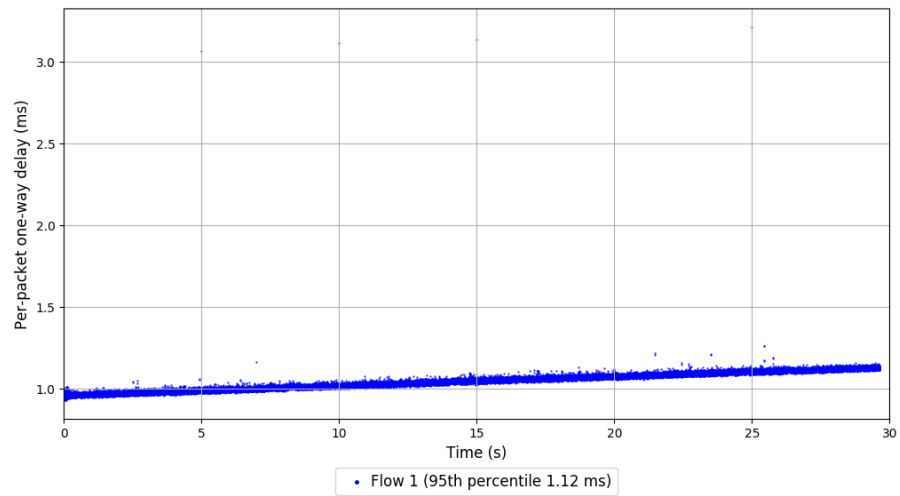
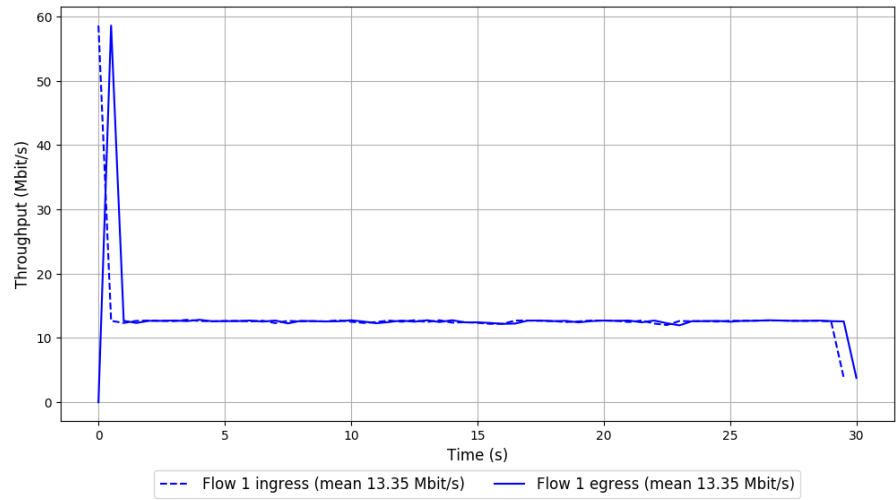
-- Flow 1:

Average throughput: 13.35 Mbit/s

95th percentile per-packet one-way delay: 1.122 ms

Loss rate: 0.01%

## Run 2: Report of Muses\_DecisionTreeH0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 06:21:32

End at: 2019-07-18 06:22:02

Local clock offset: 3.711 ms

Remote clock offset: 3.872 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.01%

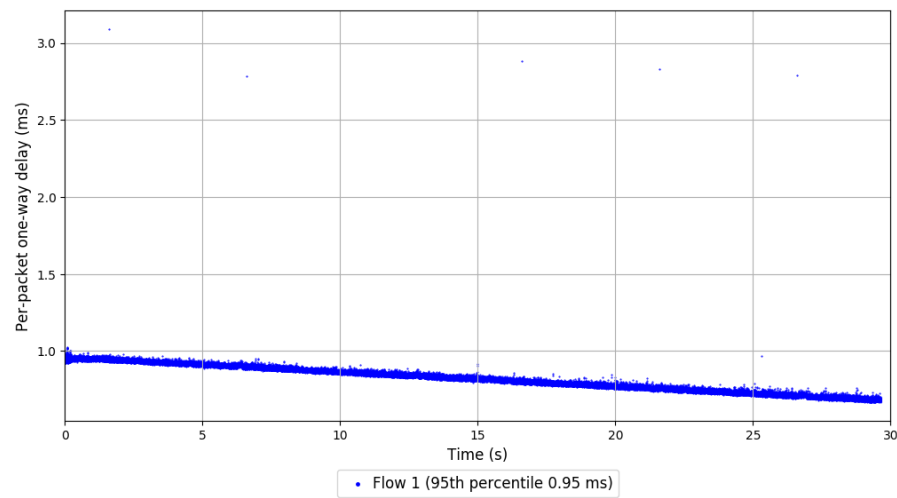
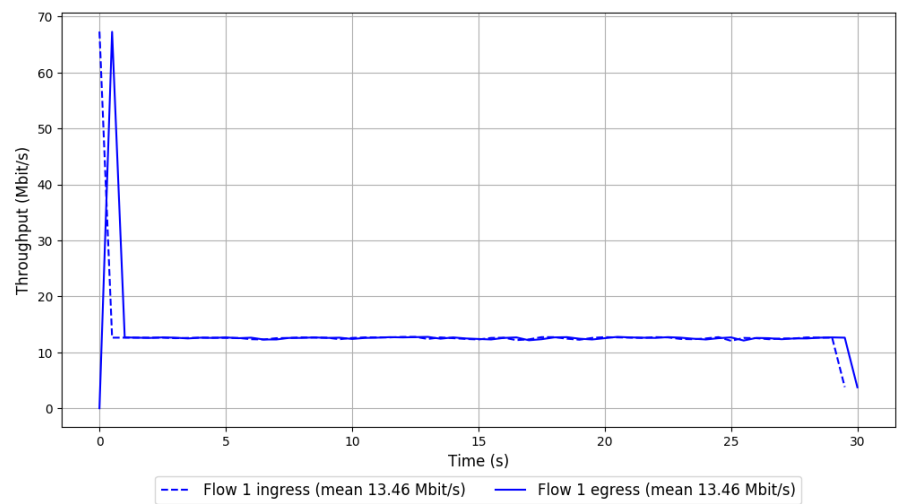
-- Flow 1:

Average throughput: 13.46 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.01%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

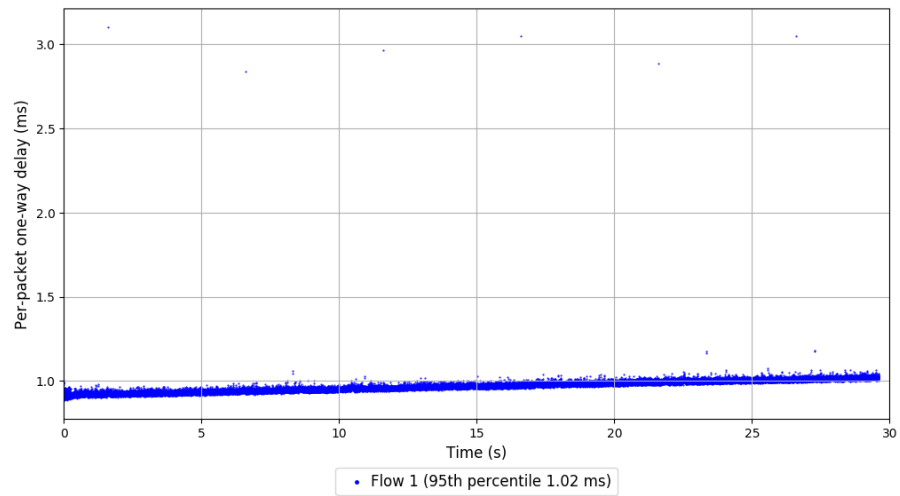
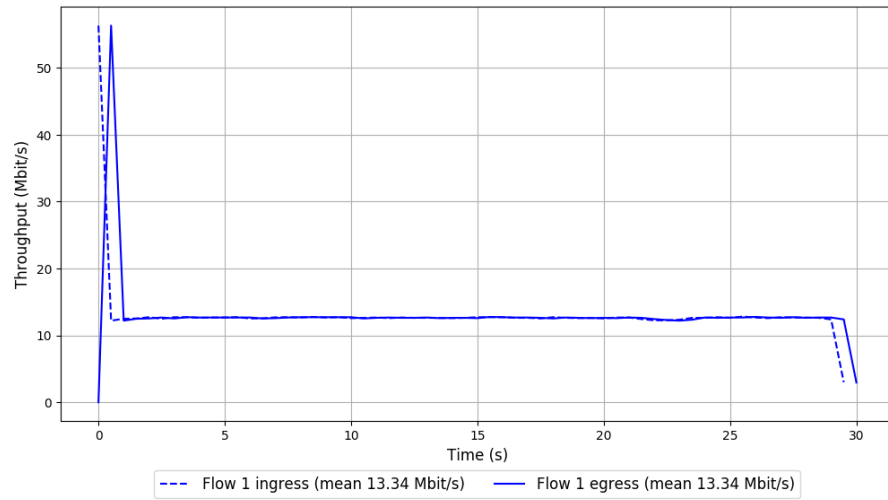


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 06:54:50  
End at: 2019-07-18 06:55:20  
Local clock offset: 3.35 ms  
Remote clock offset: -0.962 ms

# Below is generated by plot.py at 2019-07-18 08:23:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 13.34 Mbit/s  
95th percentile per-packet one-way delay: 1.018 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 13.34 Mbit/s  
95th percentile per-packet one-way delay: 1.018 ms  
Loss rate: 0.01%

#### Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 07:28:16

End at: 2019-07-18 07:28:46

Local clock offset: 0.517 ms

Remote clock offset: 1.829 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.01%

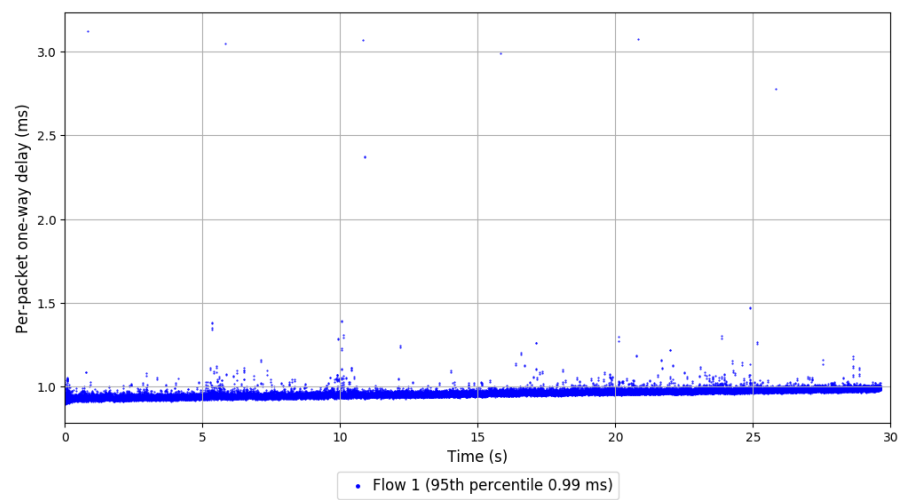
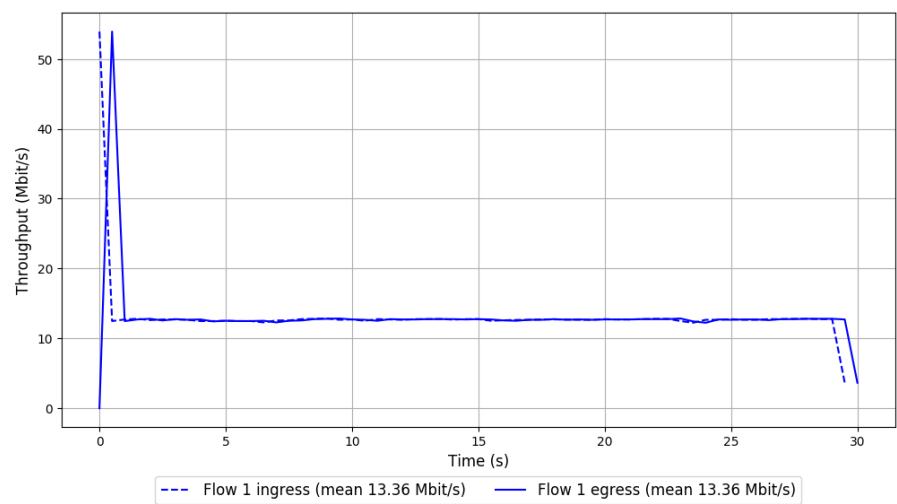
-- Flow 1:

Average throughput: 13.36 Mbit/s

95th percentile per-packet one-way delay: 0.993 ms

Loss rate: 0.01%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

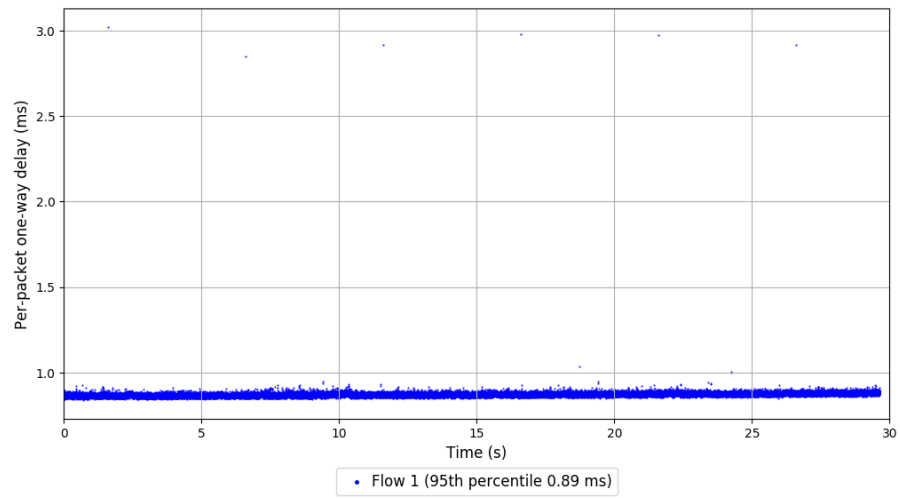
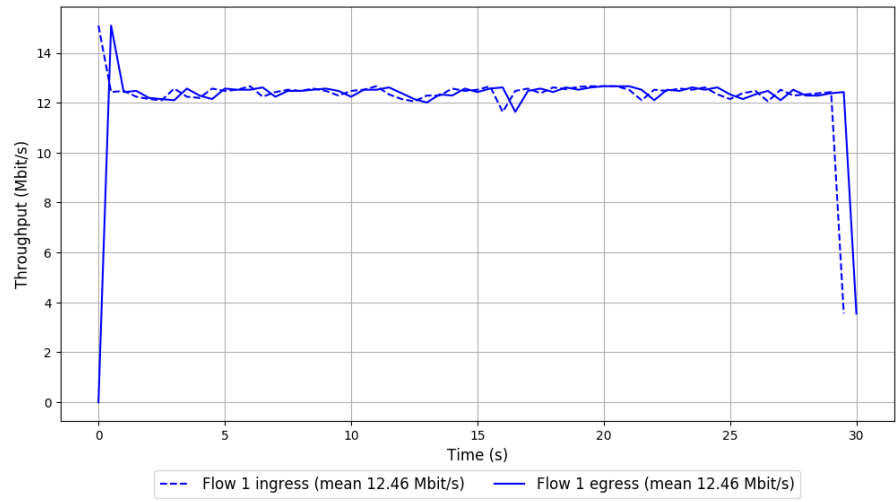


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-18 05:05:02
End at: 2019-07-18 05:05:32
Local clock offset: -0.101 ms
Remote clock offset: 1.129 ms

# Below is generated by plot.py at 2019-07-18 08:23:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.46 Mbit/s
95th percentile per-packet one-way delay: 0.889 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 12.46 Mbit/s
95th percentile per-packet one-way delay: 0.889 ms
Loss rate: 0.01%
```

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link

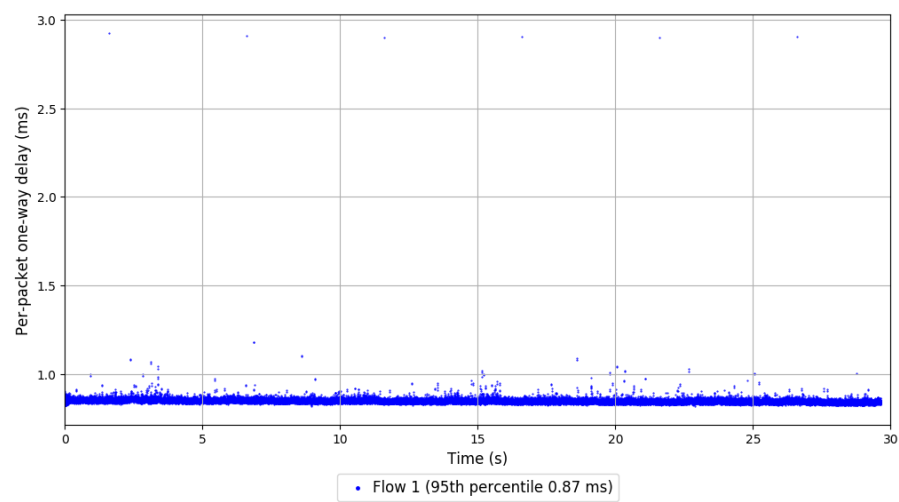
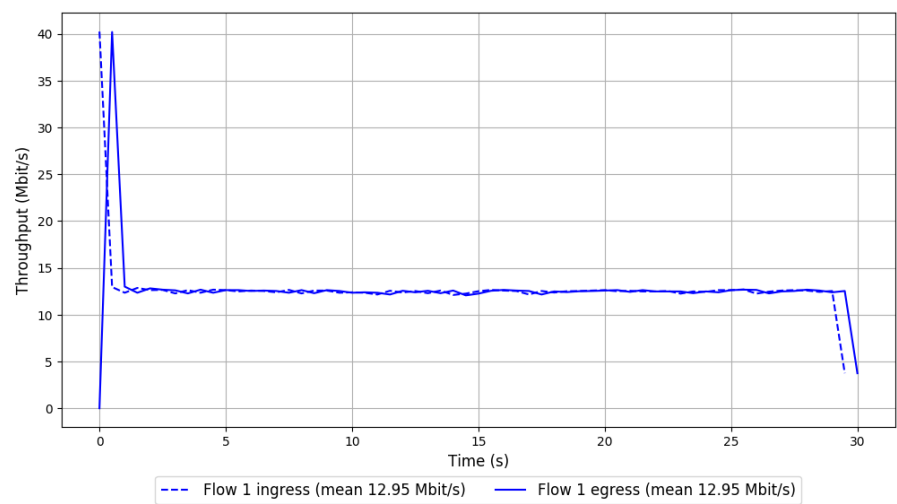


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 05:38:15  
End at: 2019-07-18 05:38:45  
Local clock offset: -0.258 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-07-18 08:23:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.95 Mbit/s  
95th percentile per-packet one-way delay: 0.867 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.95 Mbit/s  
95th percentile per-packet one-way delay: 0.867 ms  
Loss rate: 0.01%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 06:11:44

End at: 2019-07-18 06:12:14

Local clock offset: 3.055 ms

Remote clock offset: 3.444 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 0.874 ms

Loss rate: 0.01%

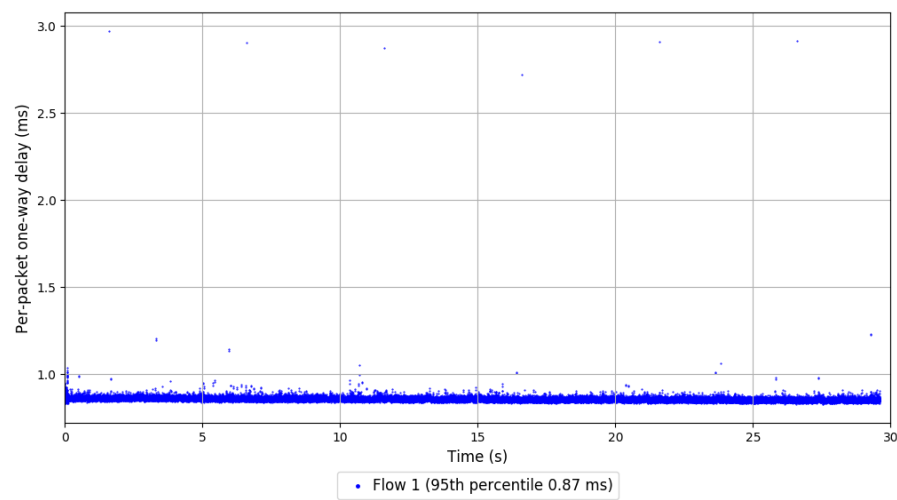
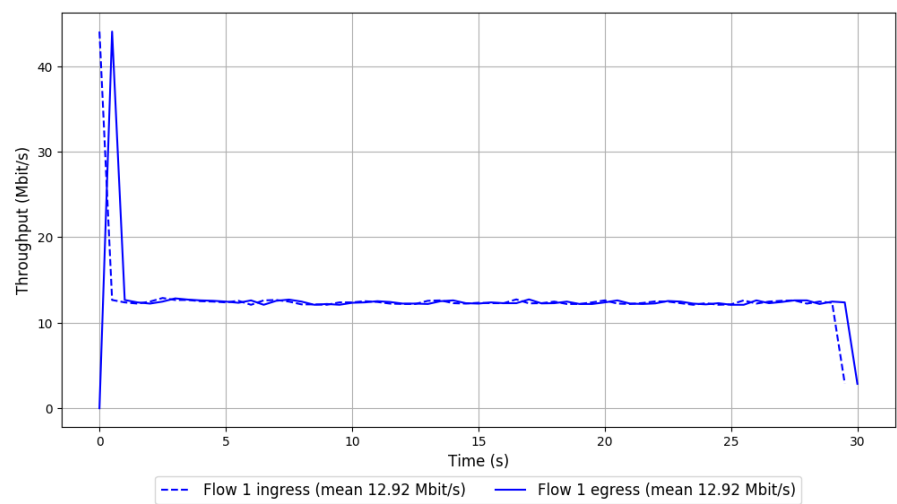
-- Flow 1:

Average throughput: 12.92 Mbit/s

95th percentile per-packet one-way delay: 0.874 ms

Loss rate: 0.01%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



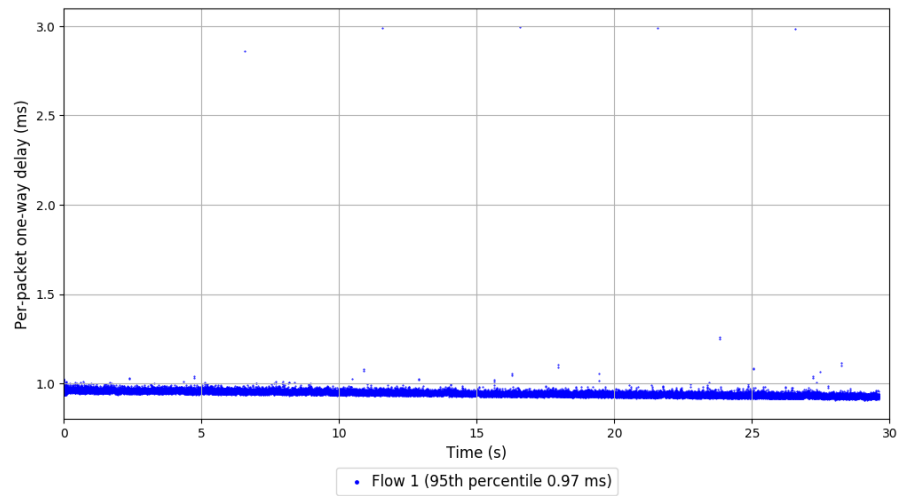
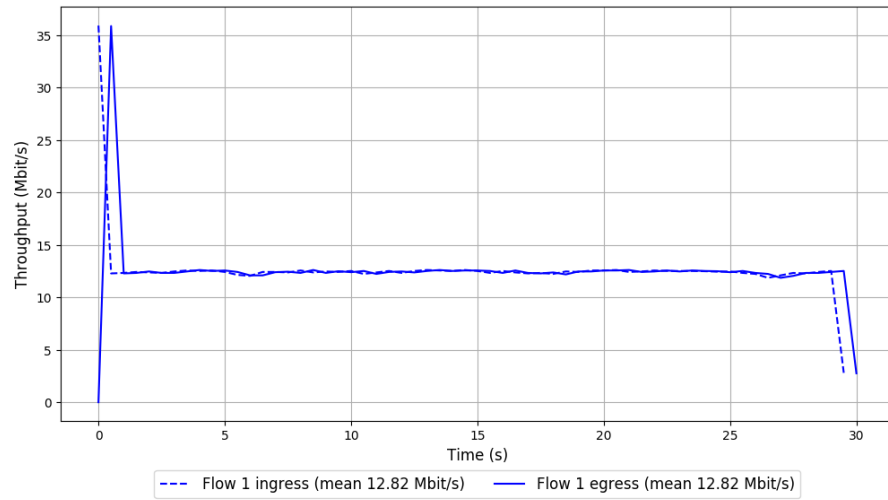


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 06:45:04  
End at: 2019-07-18 06:45:34  
Local clock offset: 3.246 ms  
Remote clock offset: -0.667 ms

# Below is generated by plot.py at 2019-07-18 08:23:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.82 Mbit/s  
95th percentile per-packet one-way delay: 0.970 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 12.82 Mbit/s  
95th percentile per-packet one-way delay: 0.970 ms  
Loss rate: 0.01%

#### Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

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

End at: 2019-07-18 07:19:03

Local clock offset: 1.073 ms

Remote clock offset: 1.483 ms

# Below is generated by plot.py at 2019-07-18 08:23:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.01%

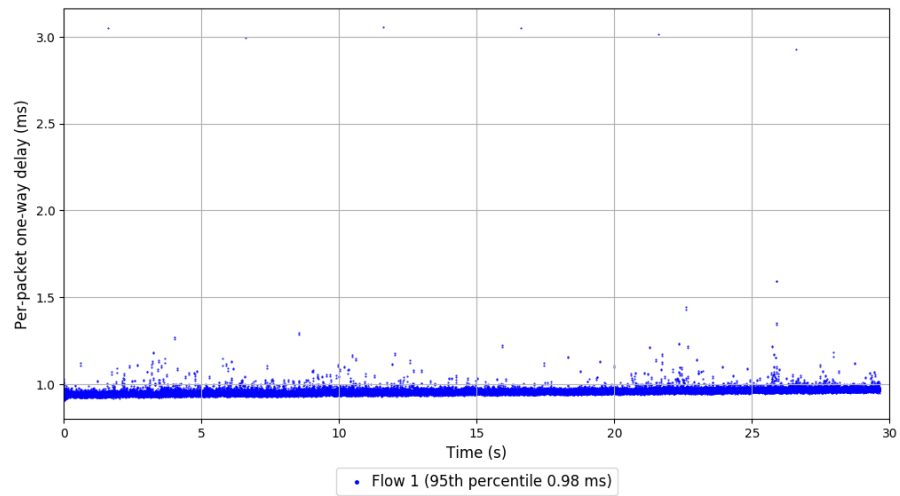
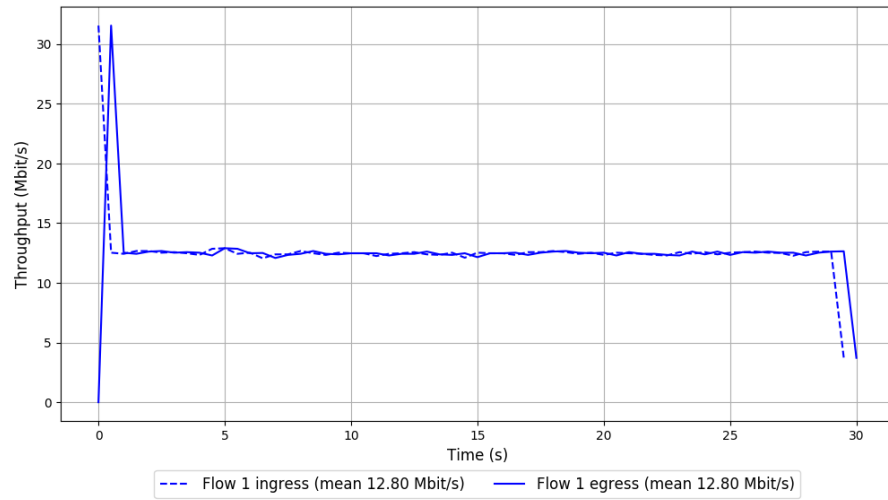
-- Flow 1:

Average throughput: 12.80 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.01%

# Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-18 05:10:32

End at: 2019-07-18 05:11:02

Local clock offset: -0.124 ms

Remote clock offset: 1.306 ms

# Below is generated by plot.py at 2019-07-18 08:27:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 708.83 Mbit/s

95th percentile per-packet one-way delay: 1.343 ms

Loss rate: 0.01%

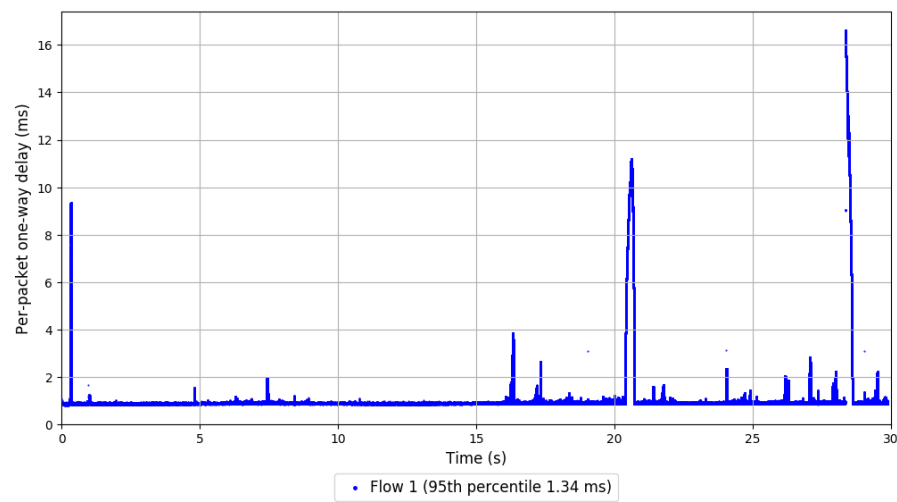
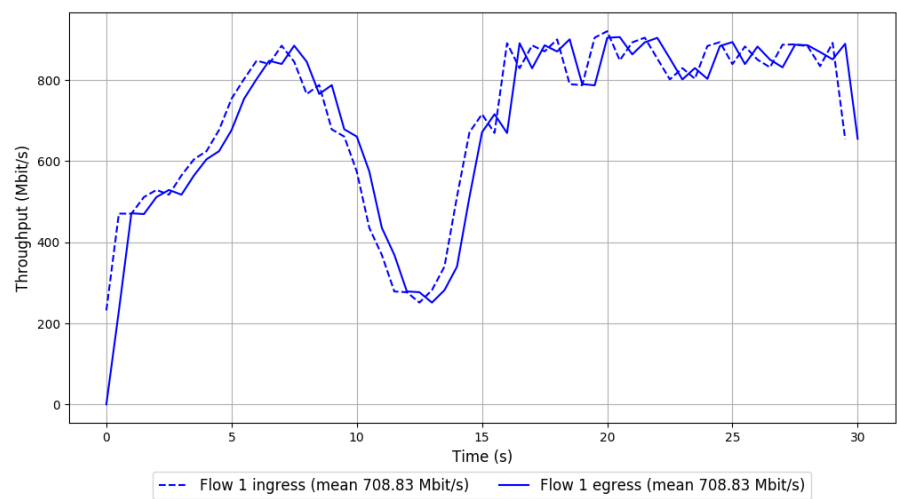
-- Flow 1:

Average throughput: 708.83 Mbit/s

95th percentile per-packet one-way delay: 1.343 ms

Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-07-18 05:43:44

End at: 2019-07-18 05:44:14

Local clock offset: -0.222 ms

Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2019-07-18 08:27:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 479.76 Mbit/s

95th percentile per-packet one-way delay: 1.056 ms

Loss rate: 0.01%

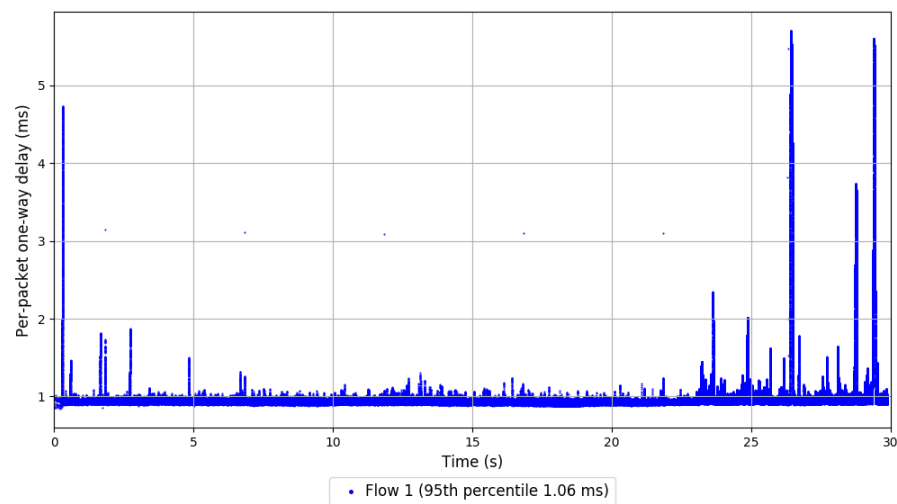
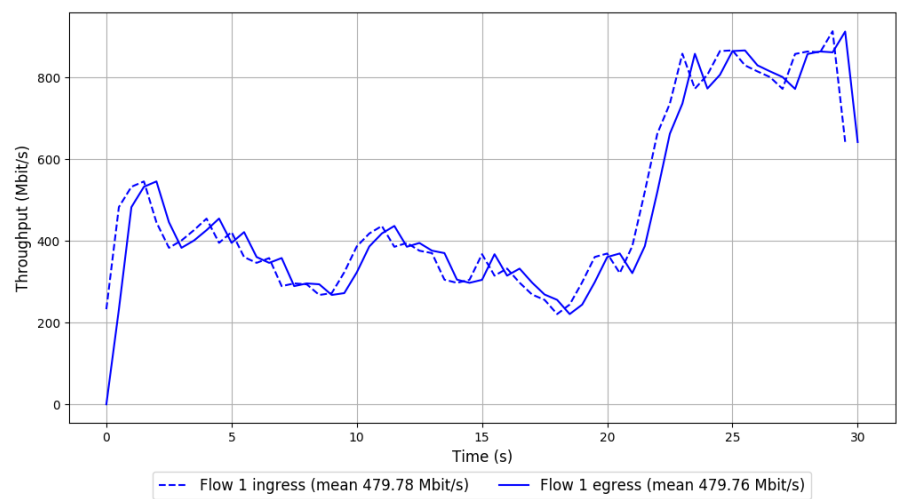
-- Flow 1:

Average throughput: 479.76 Mbit/s

95th percentile per-packet one-way delay: 1.056 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-07-18 06:17:12

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

Local clock offset: 3.463 ms

Remote clock offset: 3.755 ms

# Below is generated by plot.py at 2019-07-18 08:28:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 647.90 Mbit/s

95th percentile per-packet one-way delay: 1.844 ms

Loss rate: 0.01%

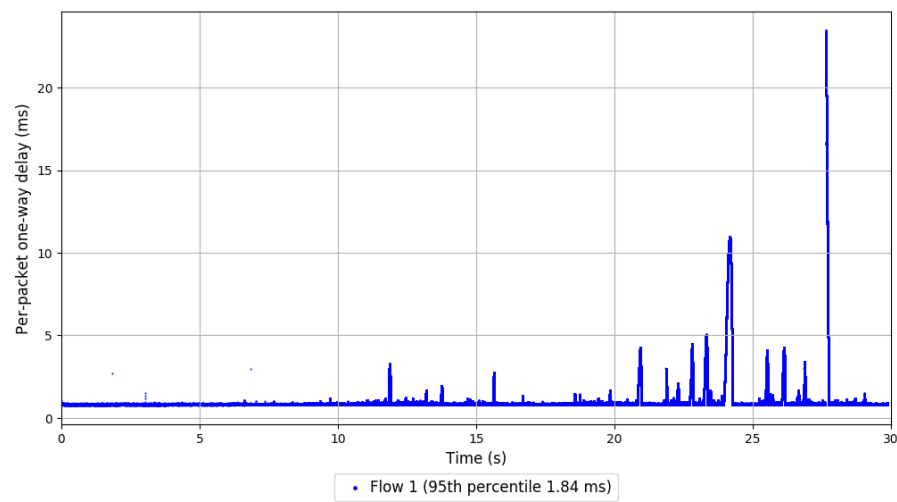
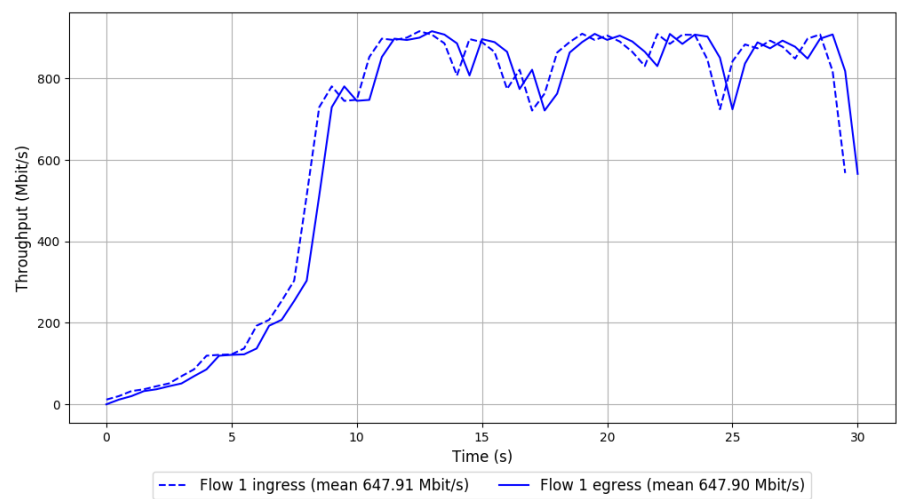
-- Flow 1:

Average throughput: 647.90 Mbit/s

95th percentile per-packet one-way delay: 1.844 ms

Loss rate: 0.01%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-07-18 06:50:32

End at: 2019-07-18 06:51:02

Local clock offset: 3.3 ms

Remote clock offset: -0.86 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 798.59 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.01%

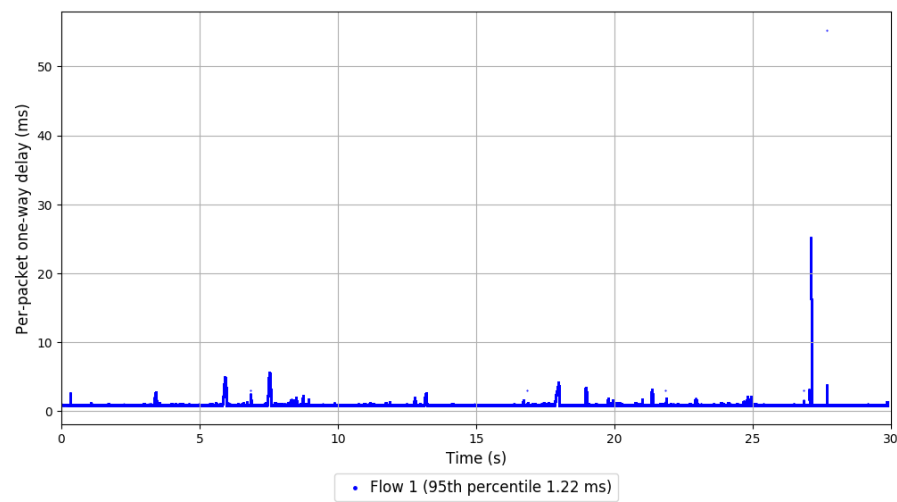
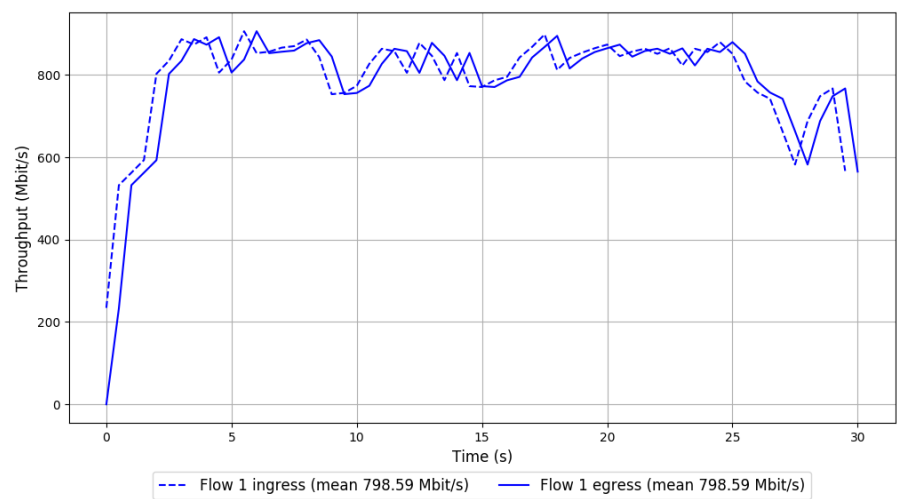
-- Flow 1:

Average throughput: 798.59 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-07-18 07:23:59

End at: 2019-07-18 07:24:29

Local clock offset: 0.957 ms

Remote clock offset: 1.751 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 718.72 Mbit/s

95th percentile per-packet one-way delay: 33.430 ms

Loss rate: 0.24%

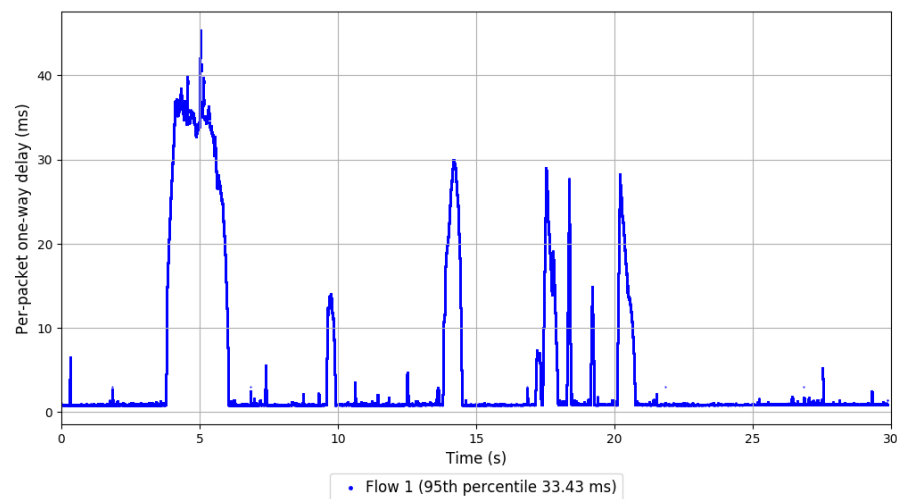
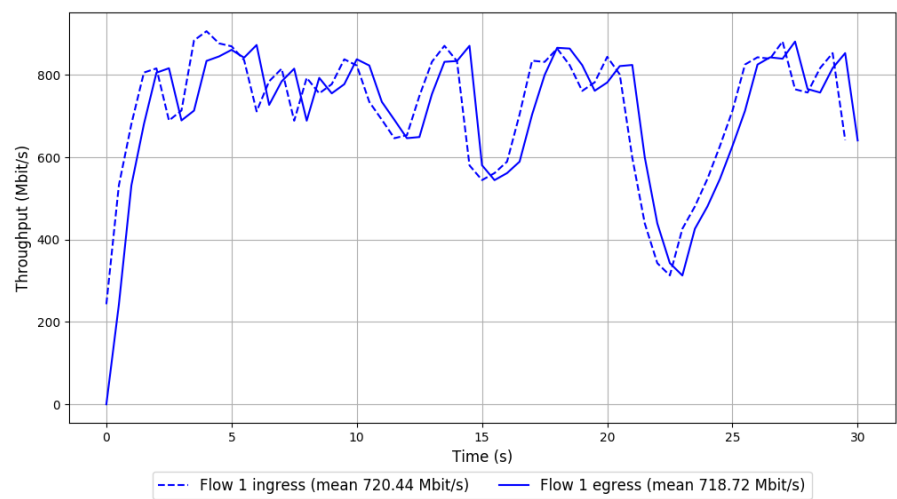
-- Flow 1:

Average throughput: 718.72 Mbit/s

95th percentile per-packet one-way delay: 33.430 ms

Loss rate: 0.24%

Run 5: Report of PCC-Allegro — Data Link

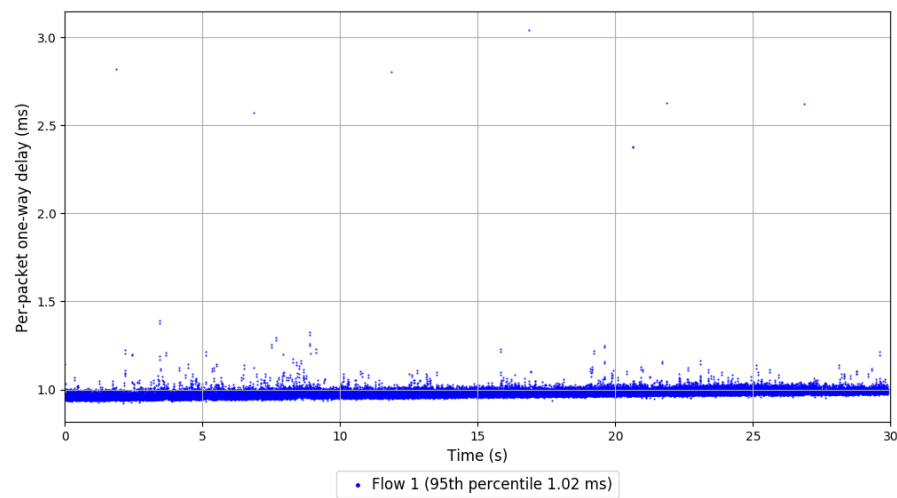
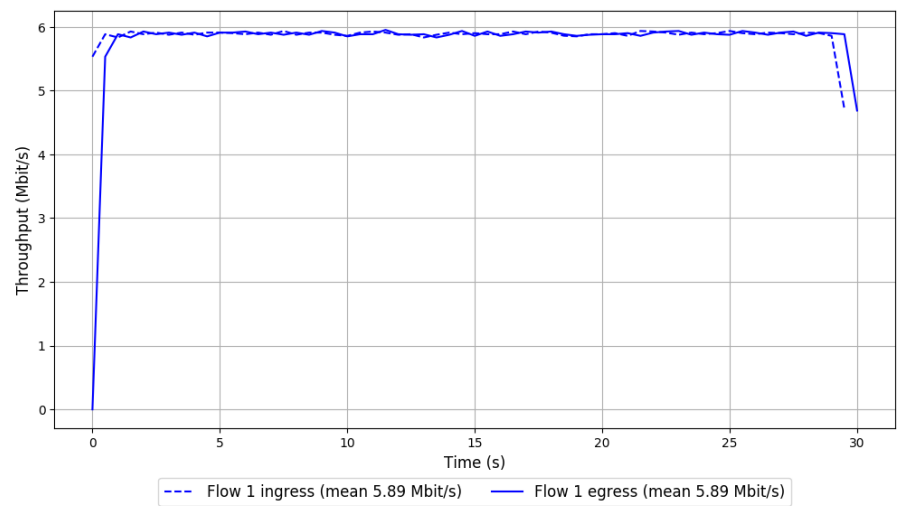


```
Run 1: Statistics of PCC-Expr

Start at: 2019-07-18 04:46:57
End at: 2019-07-18 04:47:27
Local clock offset: -0.088 ms
Remote clock offset: 0.319 ms

# Below is generated by plot.py at 2019-07-18 08:30:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 1.017 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 1.017 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link





Run 2: Statistics of PCC-Expr

Start at: 2019-07-18 05:20:12

End at: 2019-07-18 05:20:42

Local clock offset: -0.245 ms

Remote clock offset: 0.559 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 0.878 ms

Loss rate: 0.00%

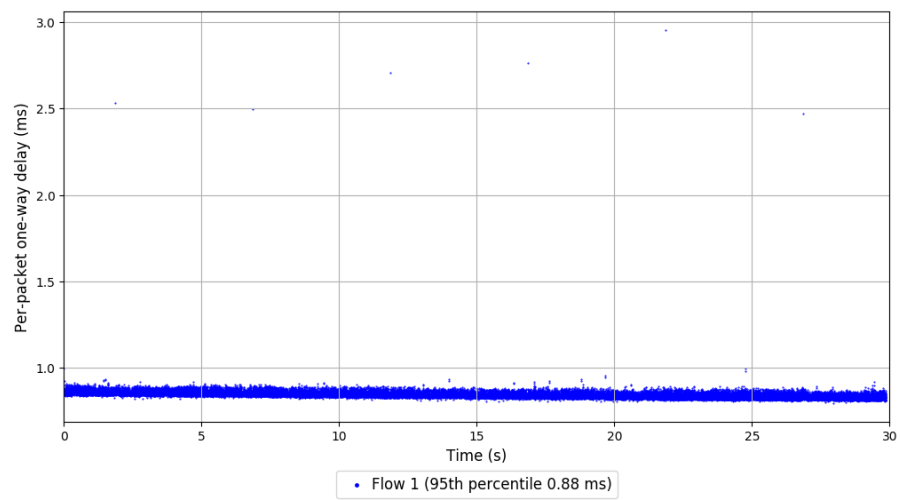
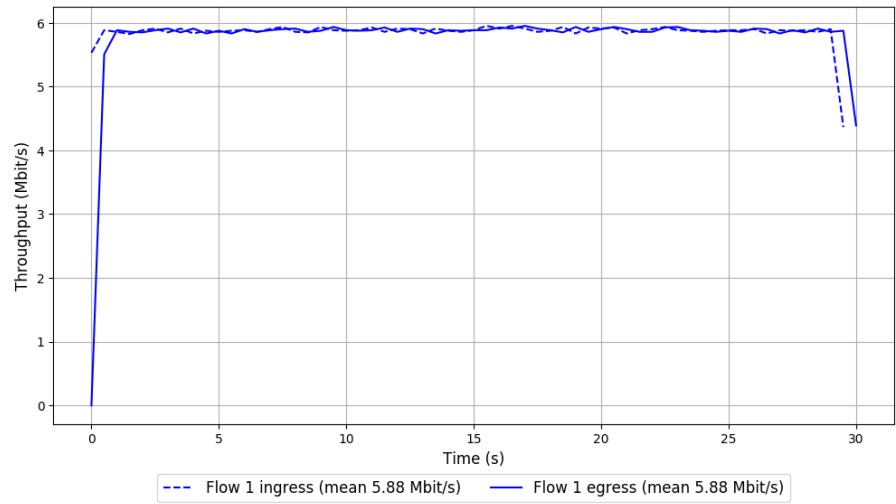
-- Flow 1:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 0.878 ms

Loss rate: 0.00%

## Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-07-18 05:53:20

End at: 2019-07-18 05:53:50

Local clock offset: -0.182 ms

Remote clock offset: 1.47 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 289.49 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.01%

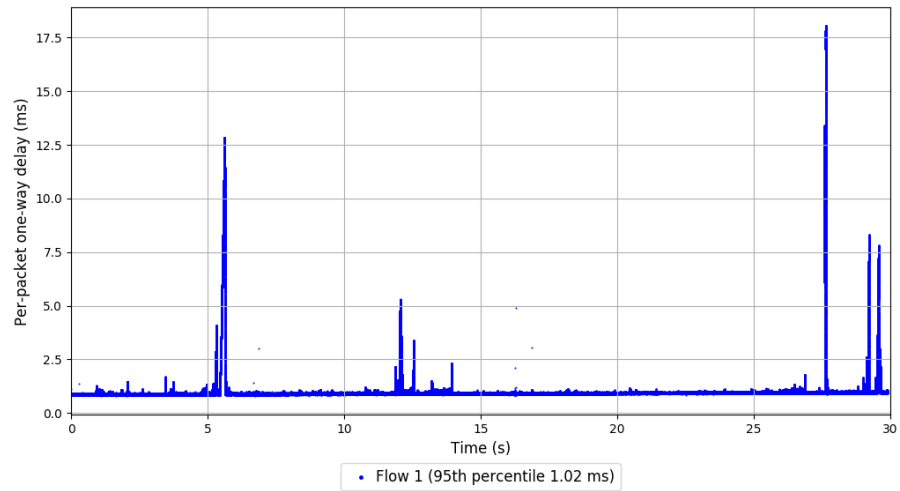
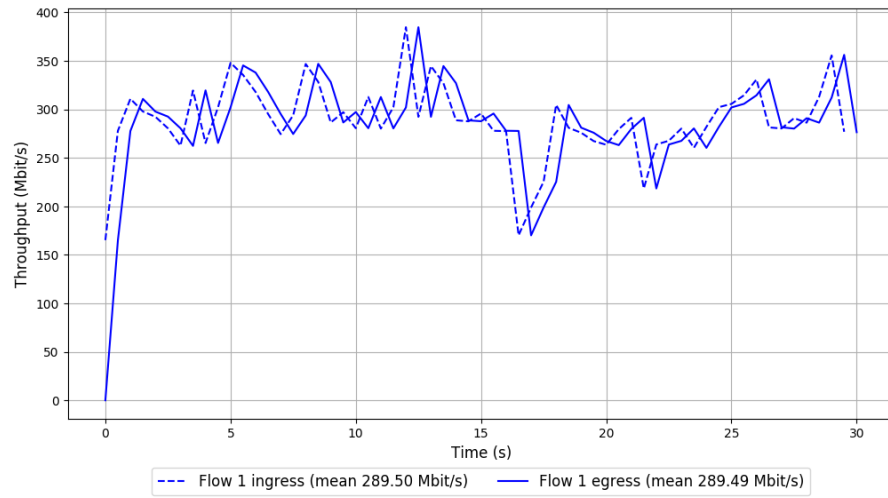
-- Flow 1:

Average throughput: 289.49 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.01%

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



Run 4: Statistics of PCC-Expr

Start at: 2019-07-18 06:26:54

End at: 2019-07-18 06:27:24

Local clock offset: 3.677 ms

Remote clock offset: 1.857 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 0.907 ms

Loss rate: 0.01%

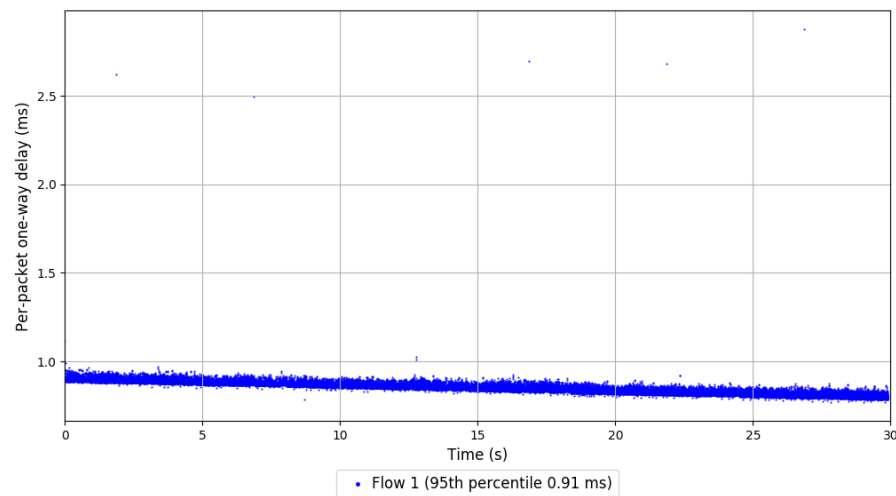
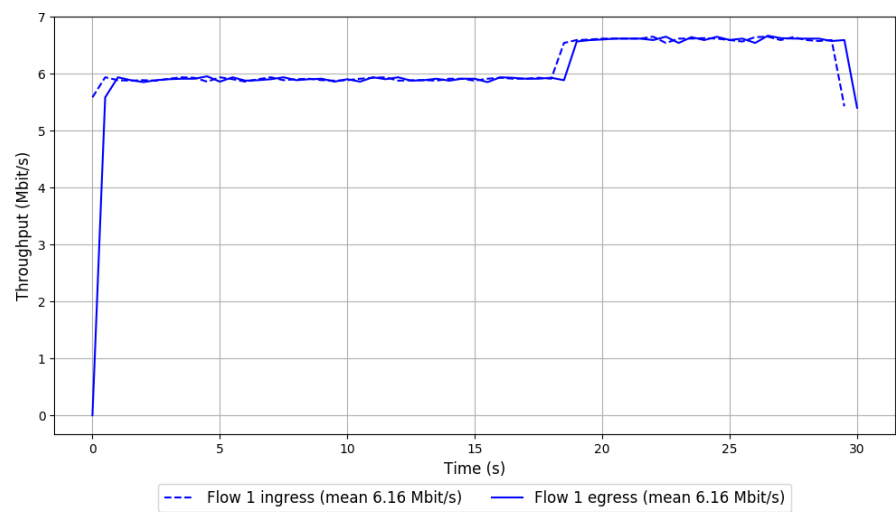
-- Flow 1:

Average throughput: 6.16 Mbit/s

95th percentile per-packet one-way delay: 0.907 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link

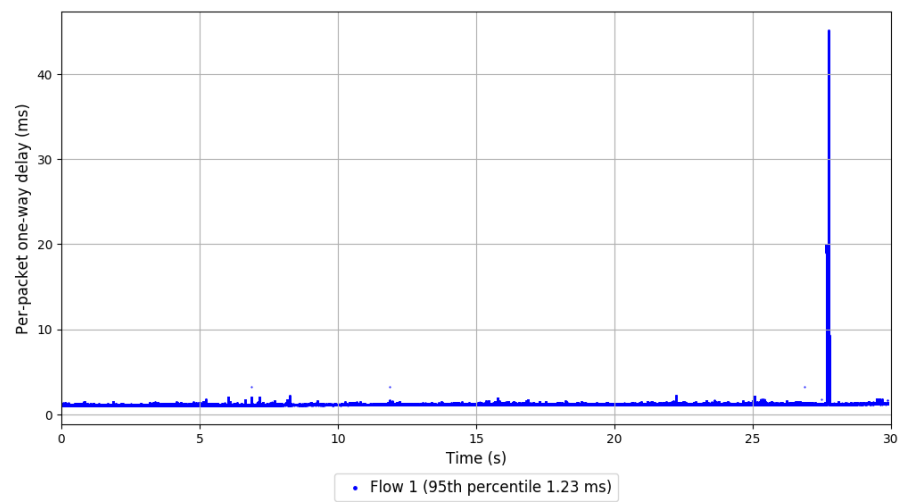
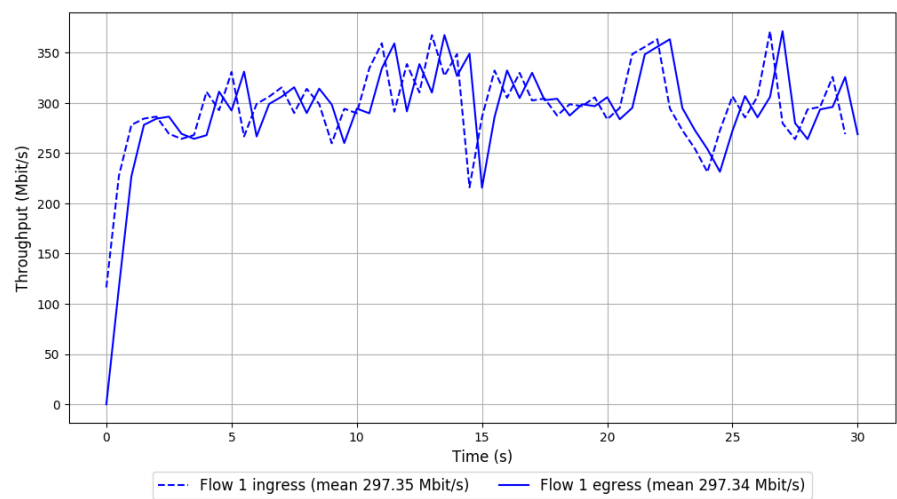


Run 5: Statistics of PCC-Expr

Start at: 2019-07-18 07:00:12  
End at: 2019-07-18 07:00:42  
Local clock offset: 2.315 ms  
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2019-07-18 08:30:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 297.34 Mbit/s  
95th percentile per-packet one-way delay: 1.228 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 297.34 Mbit/s  
95th percentile per-packet one-way delay: 1.228 ms  
Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-07-18 04:45:40

End at: 2019-07-18 04:46:10

Local clock offset: -0.045 ms

Remote clock offset: 0.338 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 0.929 ms

Loss rate: 0.01%

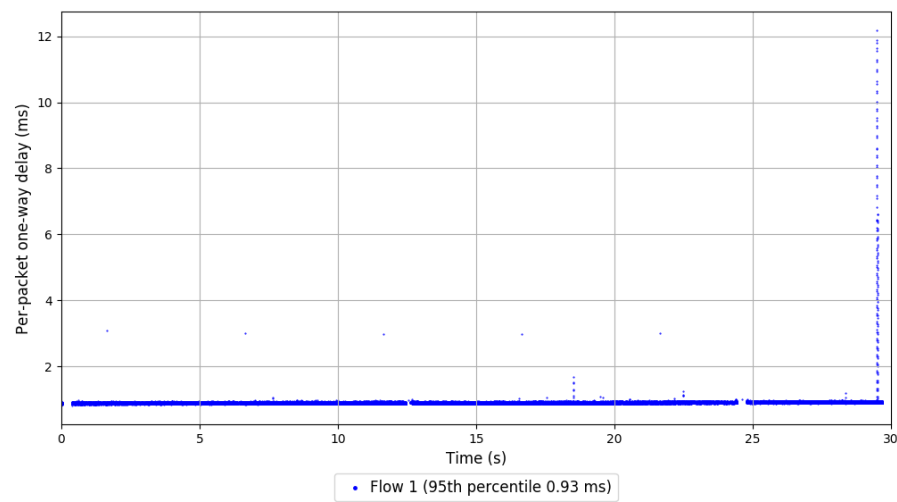
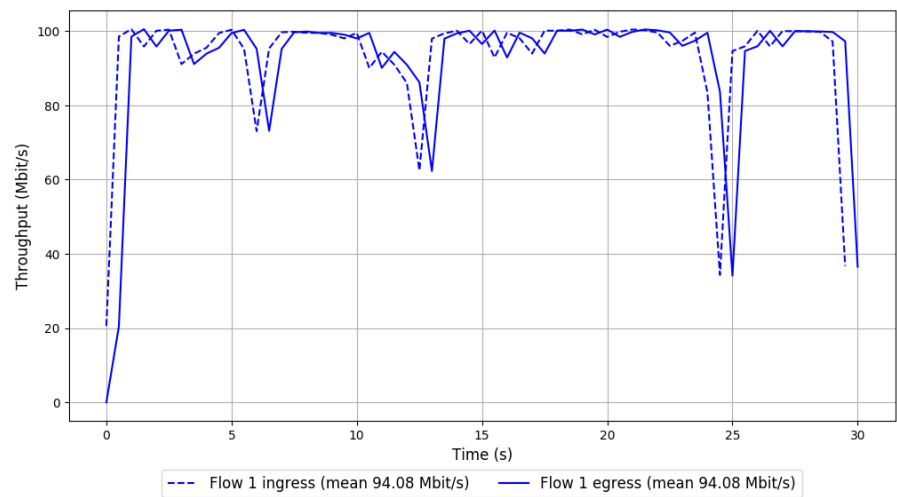
-- Flow 1:

Average throughput: 94.08 Mbit/s

95th percentile per-packet one-way delay: 0.929 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-07-18 05:18:56

End at: 2019-07-18 05:19:26

Local clock offset: -0.233 ms

Remote clock offset: 0.593 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.01%

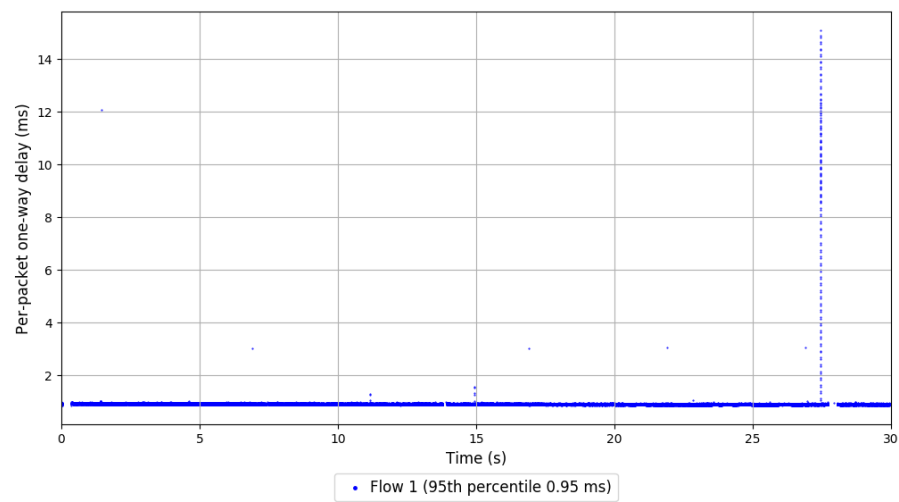
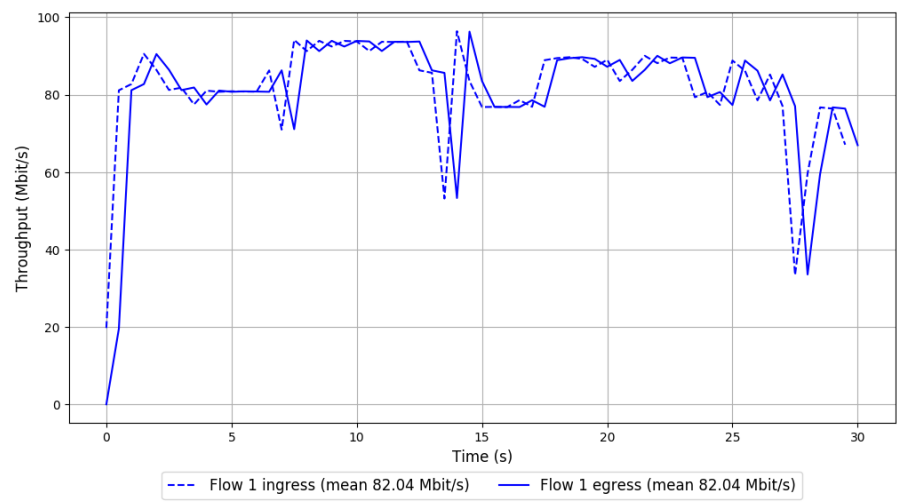
-- Flow 1:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 0.946 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-18 05:52:04

End at: 2019-07-18 05:52:34

Local clock offset: -0.196 ms

Remote clock offset: 1.131 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.00%

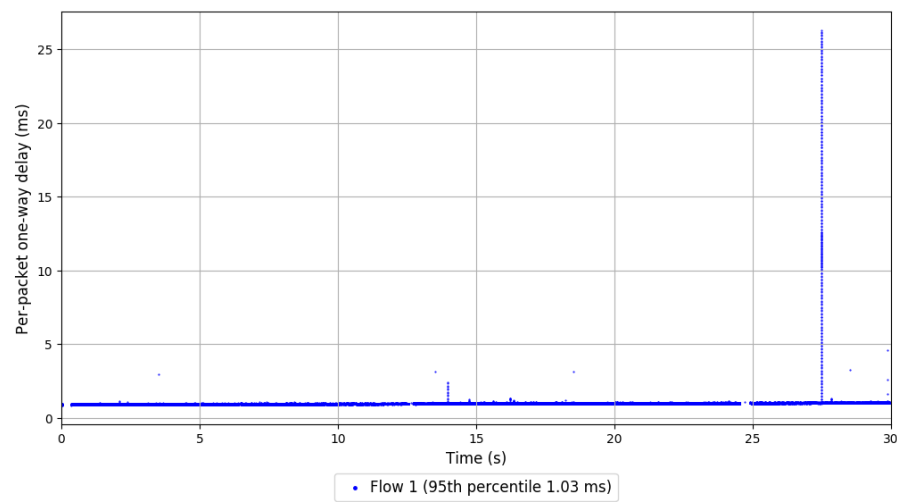
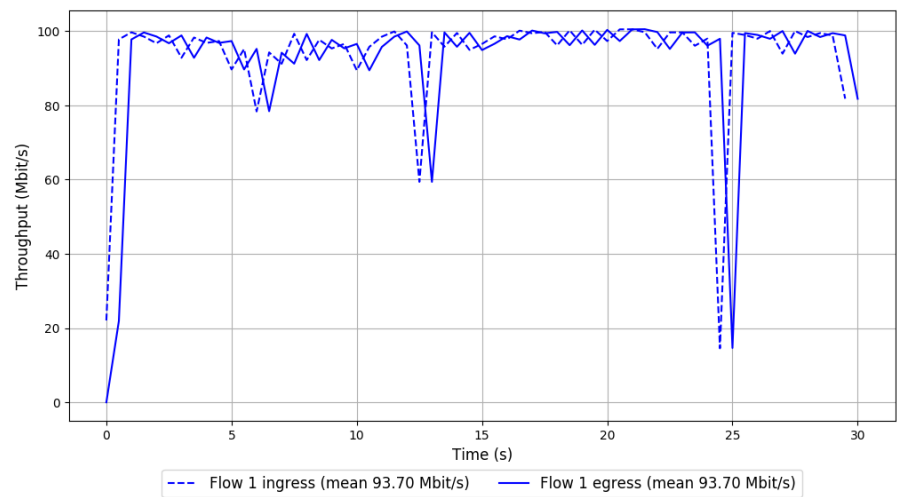
-- Flow 1:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-07-18 06:25:38

End at: 2019-07-18 06:26:08

Local clock offset: 3.8 ms

Remote clock offset: 2.213 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 0.947 ms

Loss rate: 0.01%

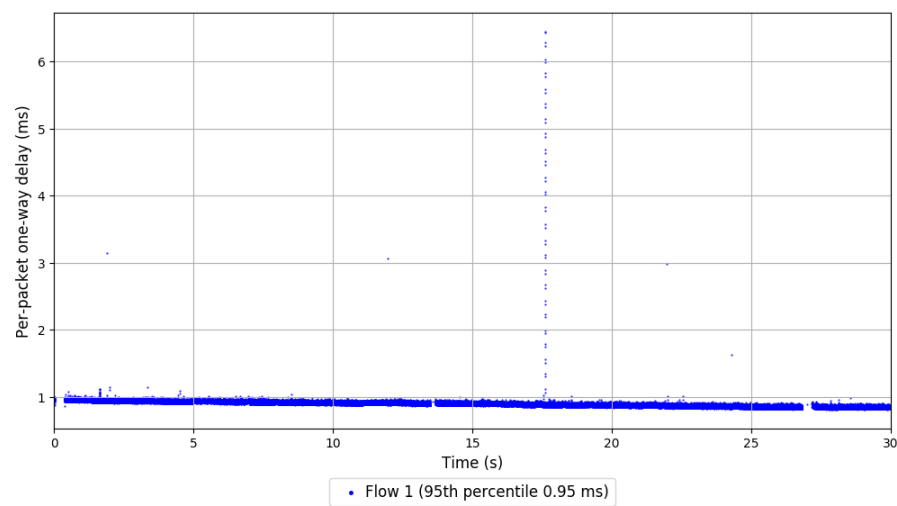
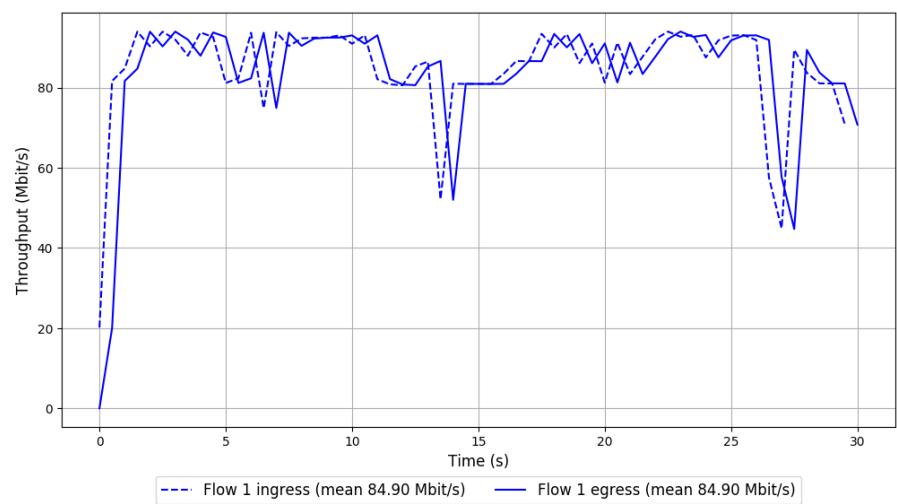
-- Flow 1:

Average throughput: 84.90 Mbit/s

95th percentile per-packet one-way delay: 0.947 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2019-07-18 06:58:56

End at: 2019-07-18 06:59:26

Local clock offset: 2.524 ms

Remote clock offset: -0.45 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.00%

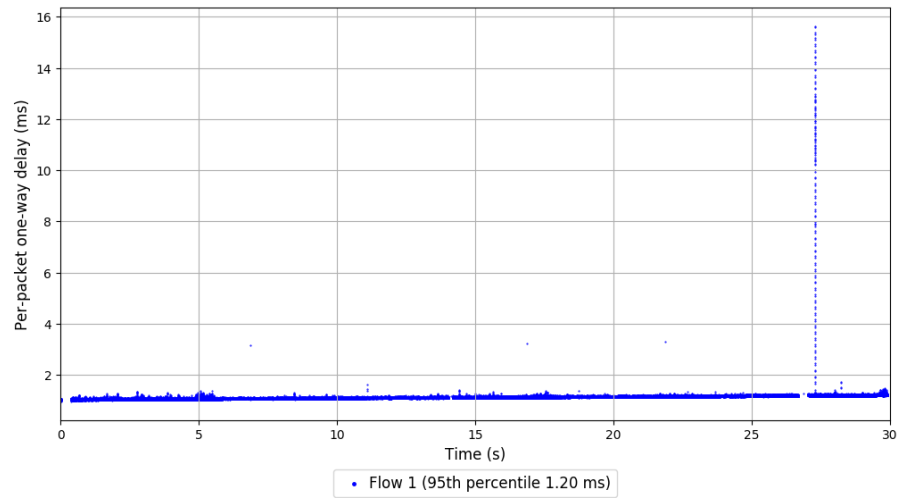
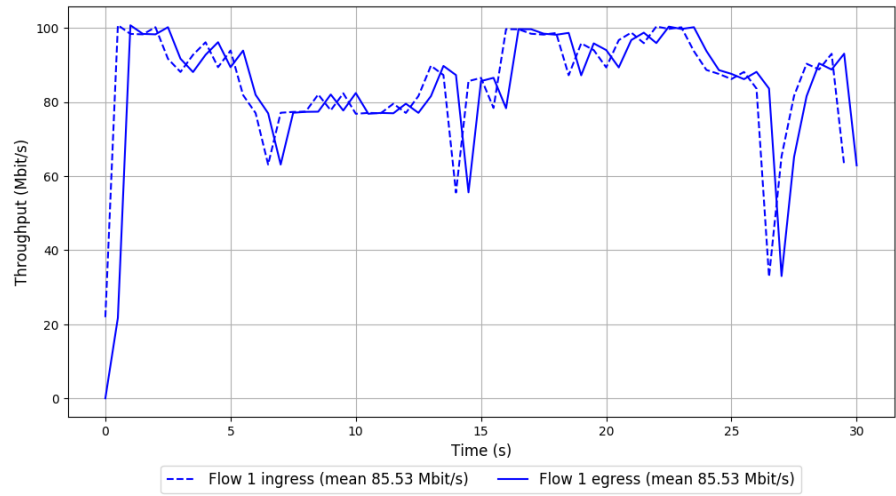
-- Flow 1:

Average throughput: 85.53 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.00%

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



Run 1: Statistics of SCReAM

Start at: 2019-07-18 05:07:44

End at: 2019-07-18 05:08:14

Local clock offset: -0.088 ms

Remote clock offset: 1.256 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.13%

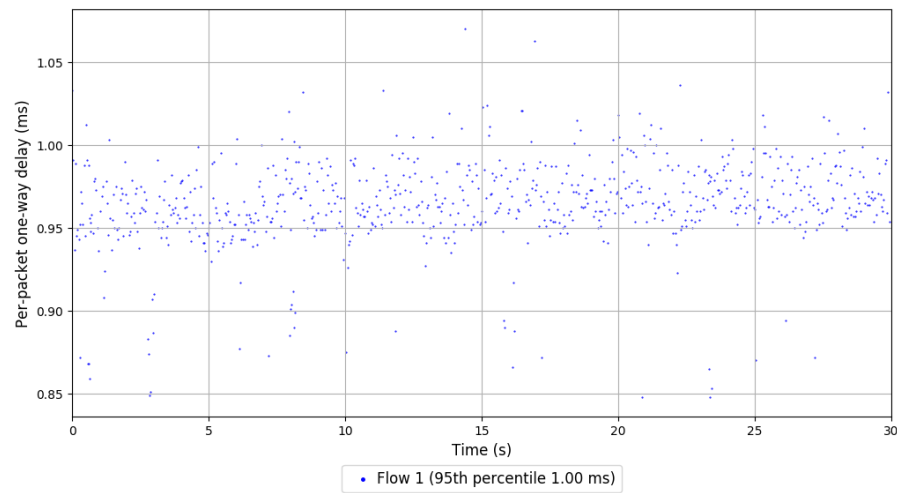
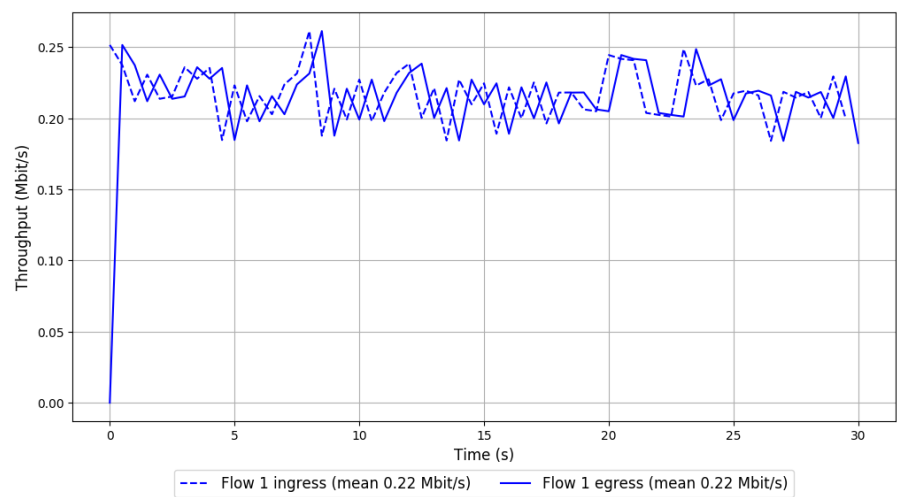
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-07-18 05:40:56

End at: 2019-07-18 05:41:26

Local clock offset: -0.215 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.00%

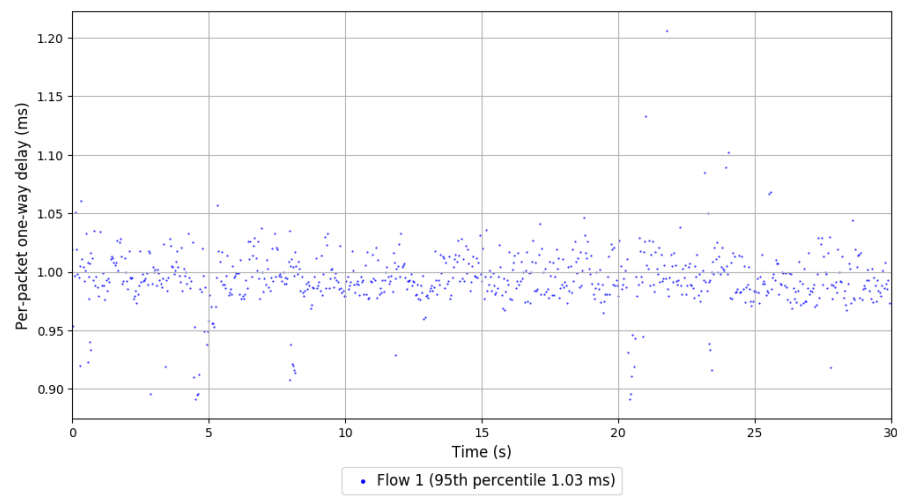
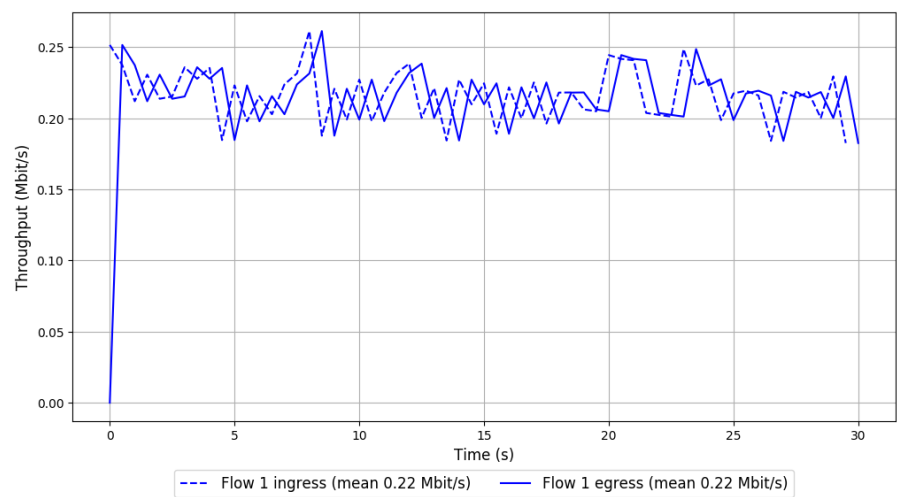
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-07-18 06:14:25

End at: 2019-07-18 06:14:55

Local clock offset: 3.242 ms

Remote clock offset: 3.642 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.922 ms

Loss rate: 0.00%

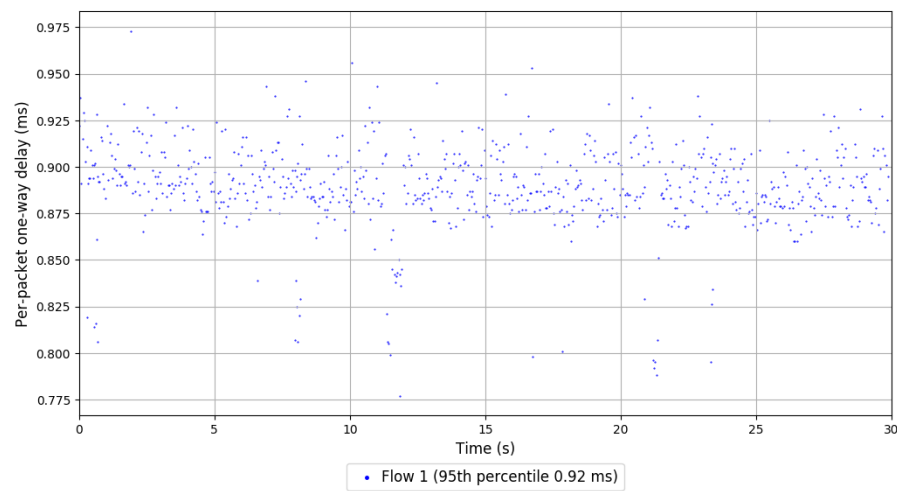
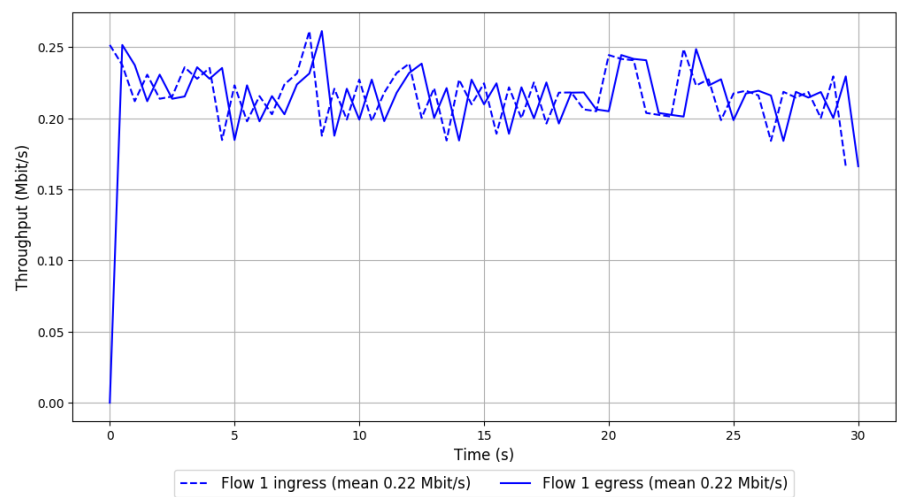
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 0.922 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



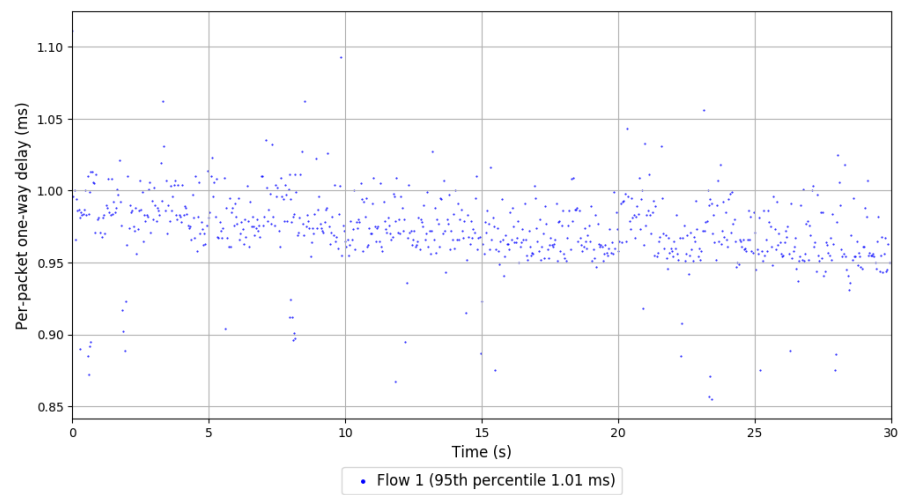
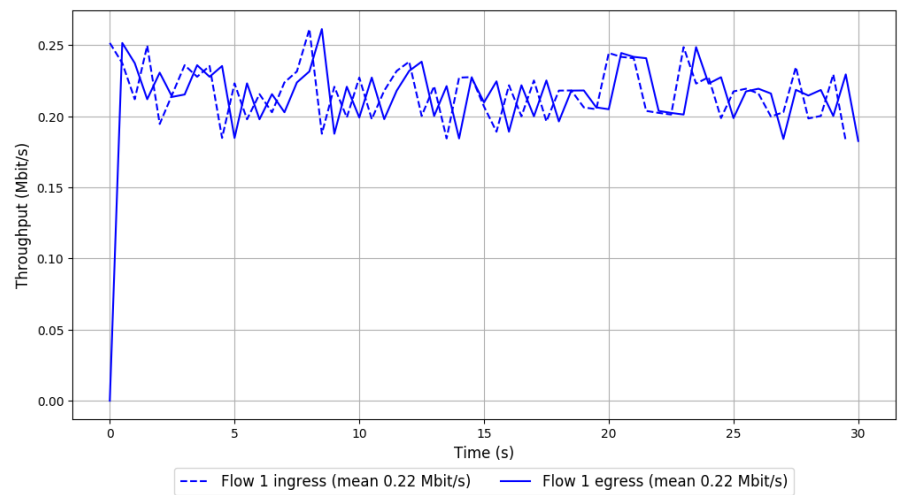


Run 4: Statistics of SCReAM

Start at: 2019-07-18 06:47:44  
End at: 2019-07-18 06:48:15  
Local clock offset: 3.282 ms  
Remote clock offset: -0.728 ms

# Below is generated by plot.py at 2019-07-18 08:30:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.009 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 1.009 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-07-18 07:21:13

End at: 2019-07-18 07:21:43

Local clock offset: 1.026 ms

Remote clock offset: 1.535 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

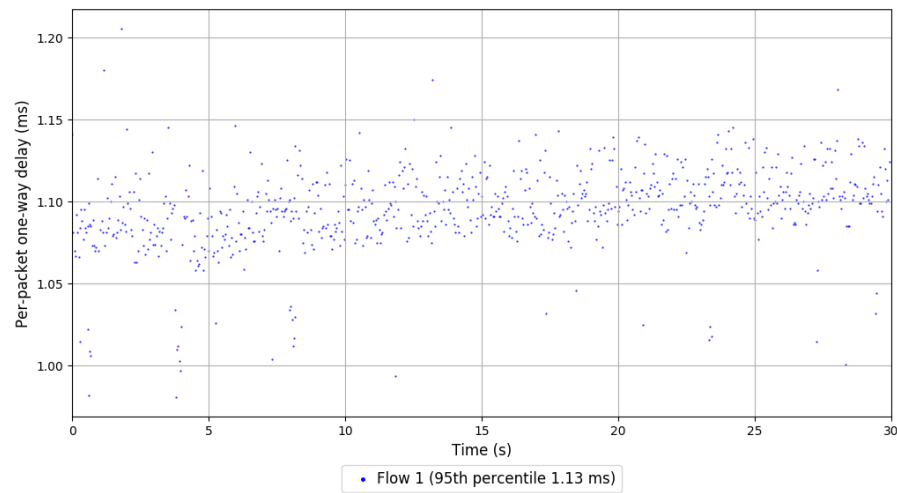
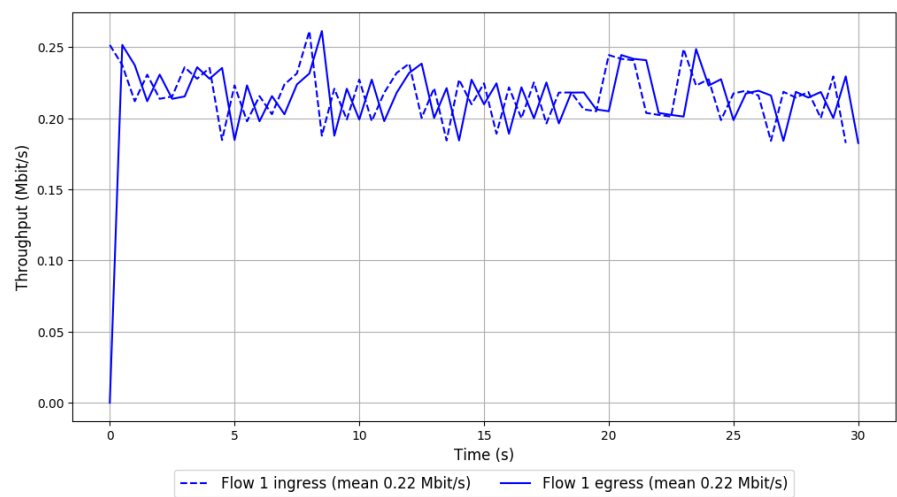
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.132 ms

Loss rate: 0.00%

Run 5: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-07-18 04:54:48

End at: 2019-07-18 04:55:18

Local clock offset: -0.291 ms

Remote clock offset: 0.812 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 0.898 ms

Loss rate: 0.00%

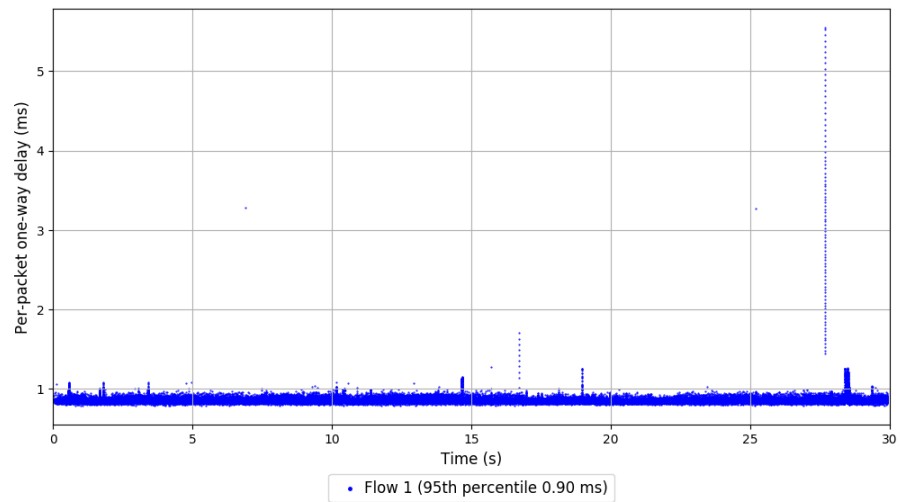
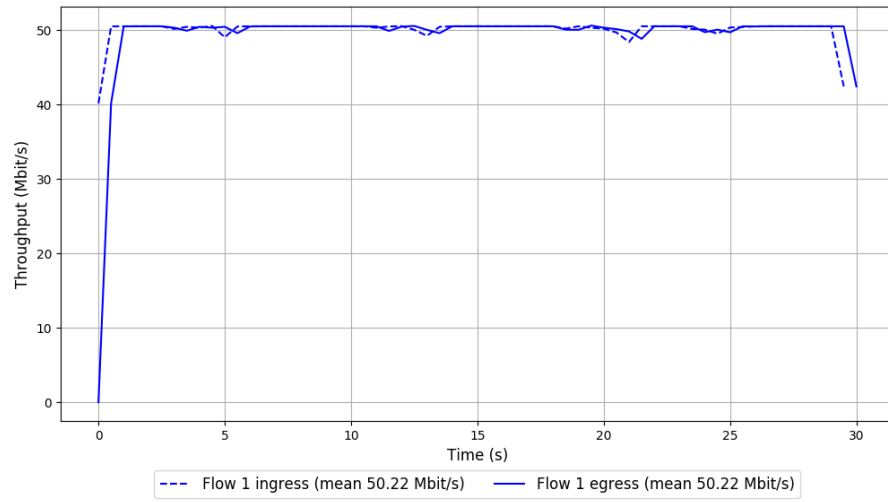
-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 0.898 ms

Loss rate: 0.00%

# Run 1: Report of Sprout — Data Link

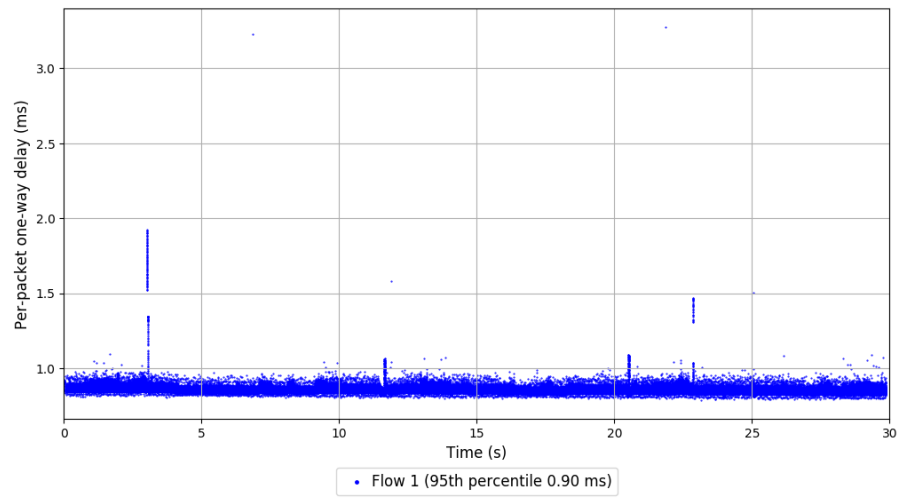
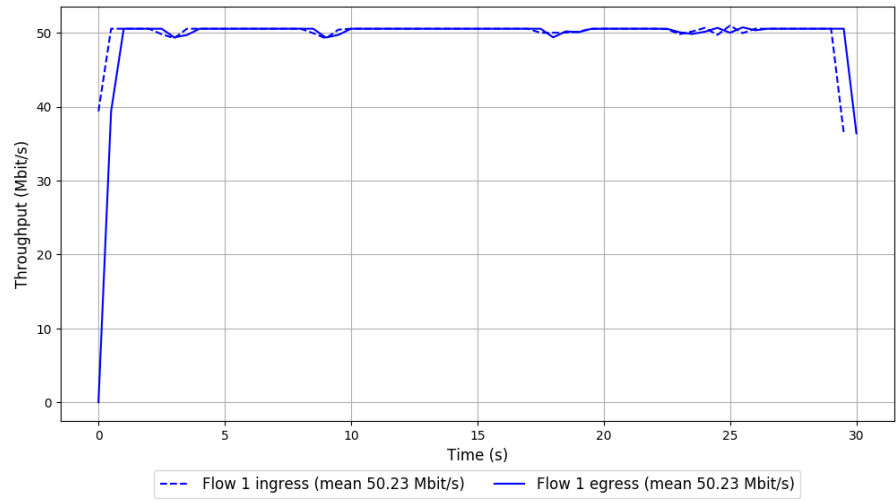


Run 2: Statistics of Sprout

Start at: 2019-07-18 05:28:05  
End at: 2019-07-18 05:28:35  
Local clock offset: -0.255 ms  
Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2019-07-18 08:30:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.23 Mbit/s  
95th percentile per-packet one-way delay: 0.895 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 50.23 Mbit/s  
95th percentile per-packet one-way delay: 0.895 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link





Run 3: Statistics of Sprout

Start at: 2019-07-18 06:01:30

End at: 2019-07-18 06:02:00

Local clock offset: 1.737 ms

Remote clock offset: 2.764 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 0.799 ms

Loss rate: 0.00%

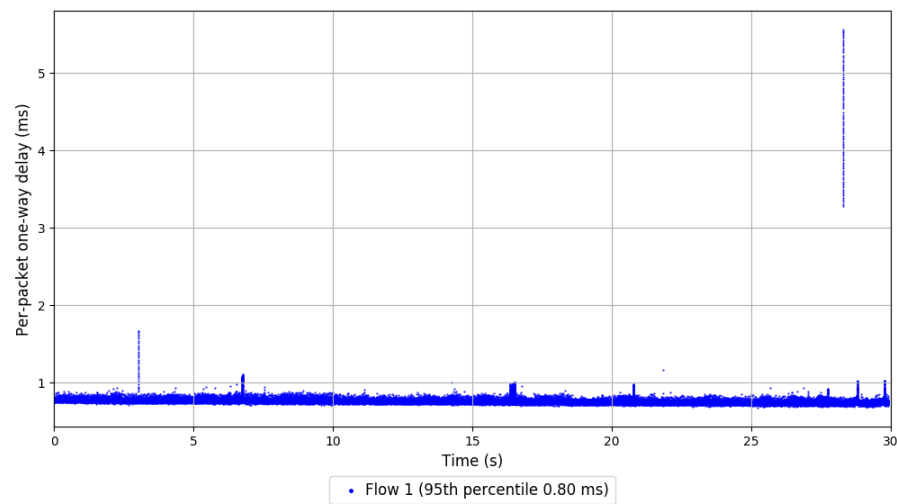
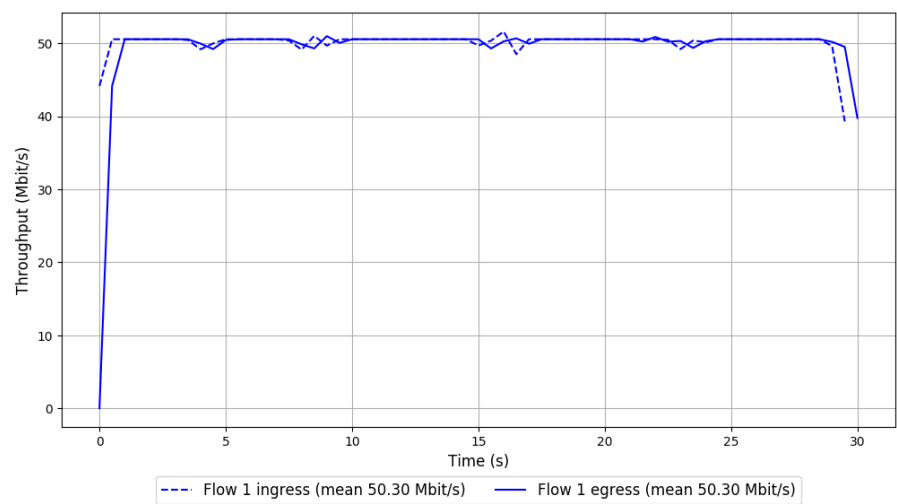
-- Flow 1:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 0.799 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-07-18 06:34:53

End at: 2019-07-18 06:35:23

Local clock offset: 3.288 ms

Remote clock offset: 0.305 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 0.913 ms

Loss rate: 0.00%

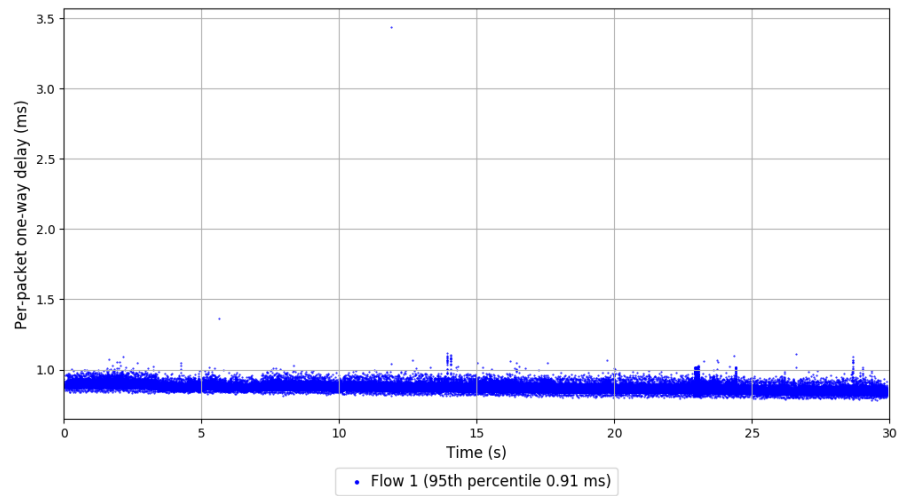
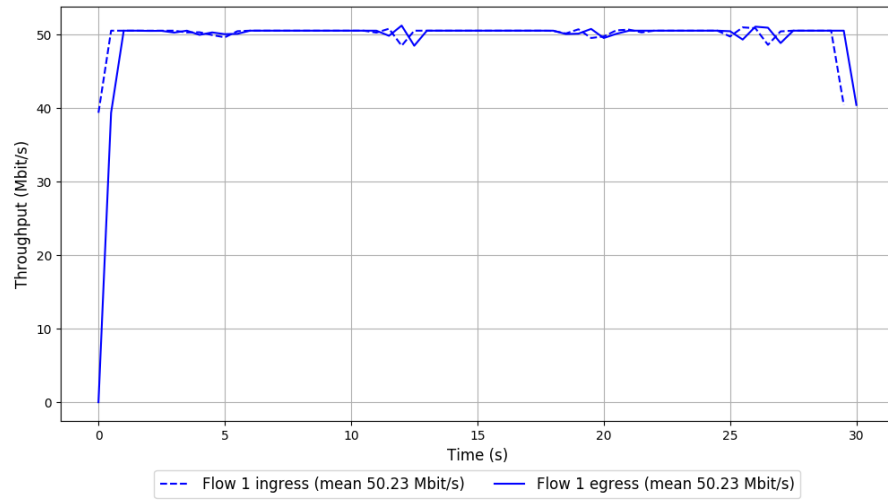
-- Flow 1:

Average throughput: 50.23 Mbit/s

95th percentile per-packet one-way delay: 0.913 ms

Loss rate: 0.00%

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



Run 5: Statistics of Sprout

Start at: 2019-07-18 07:08:24

End at: 2019-07-18 07:08:54

Local clock offset: 1.484 ms

Remote clock offset: 0.977 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.00%

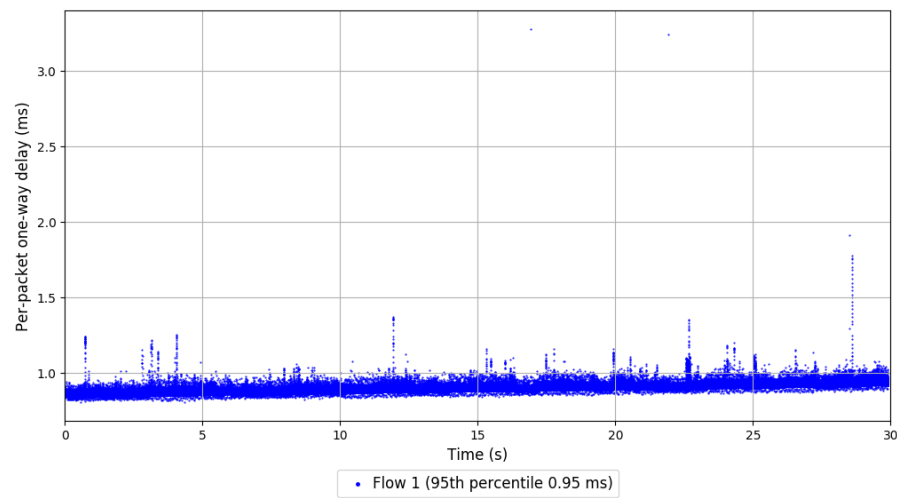
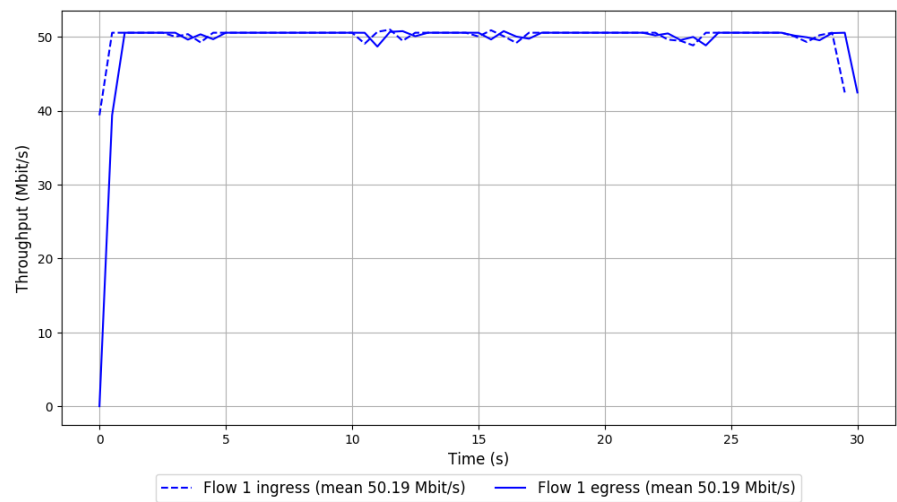
-- Flow 1:

Average throughput: 50.19 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-07-18 05:03:42

End at: 2019-07-18 05:04:12

Local clock offset: -0.076 ms

Remote clock offset: 1.148 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 0.879 ms

Loss rate: 0.00%

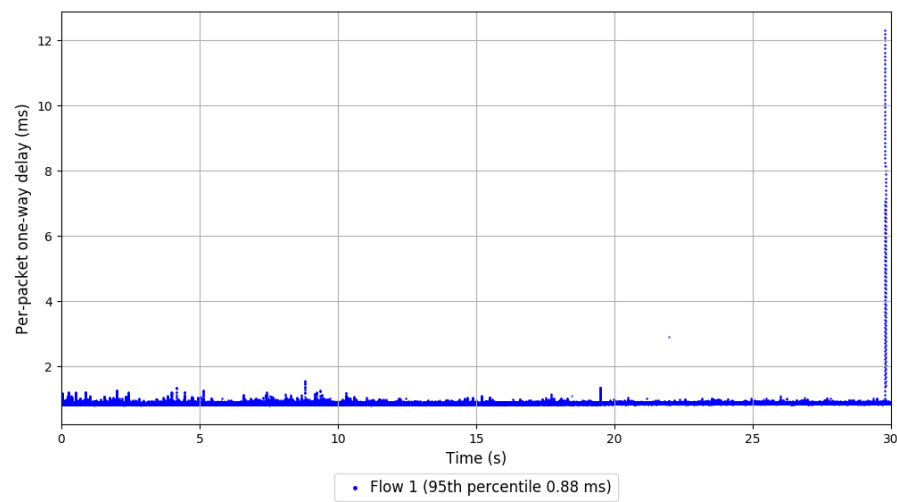
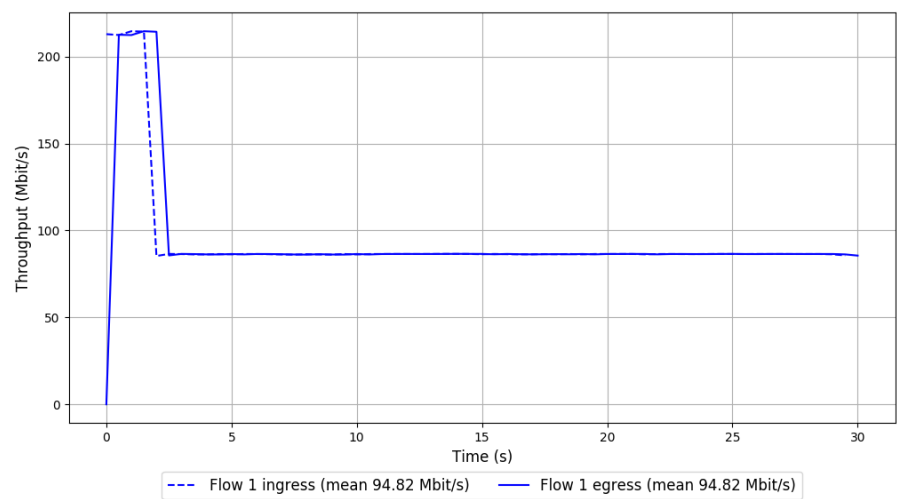
-- Flow 1:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 0.879 ms

Loss rate: 0.00%

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



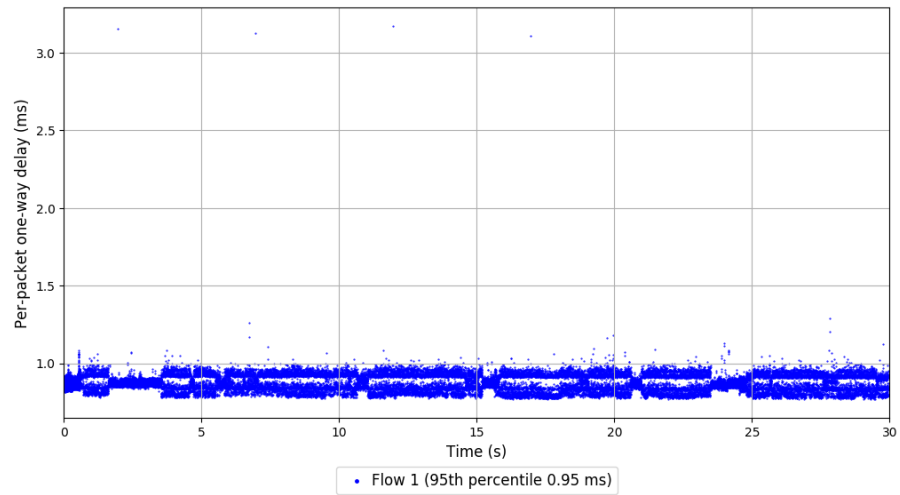
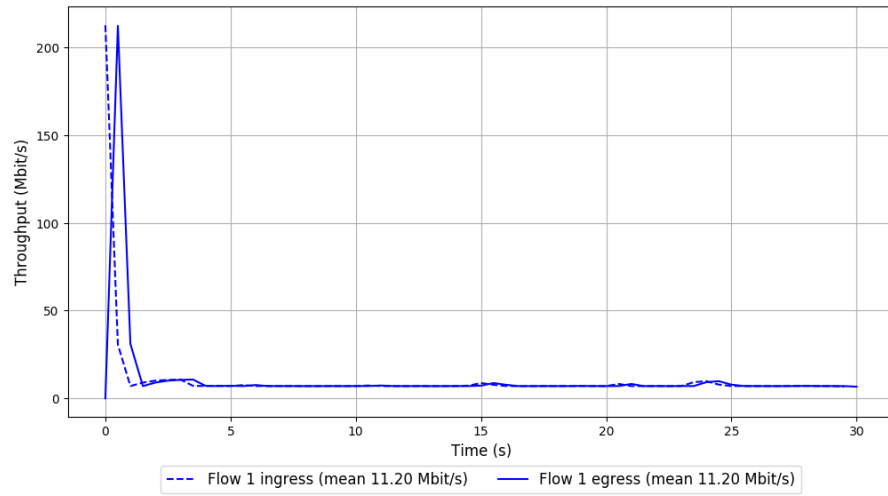


Run 2: Statistics of TaoVA-100x

Start at: 2019-07-18 05:37:01  
End at: 2019-07-18 05:37:31  
Local clock offset: -0.258 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-07-18 08:30:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 11.20 Mbit/s  
95th percentile per-packet one-way delay: 0.950 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 11.20 Mbit/s  
95th percentile per-packet one-way delay: 0.950 ms  
Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-07-18 06:10:25

End at: 2019-07-18 06:10:55

Local clock offset: 2.948 ms

Remote clock offset: 3.395 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 0.848 ms

Loss rate: 0.01%

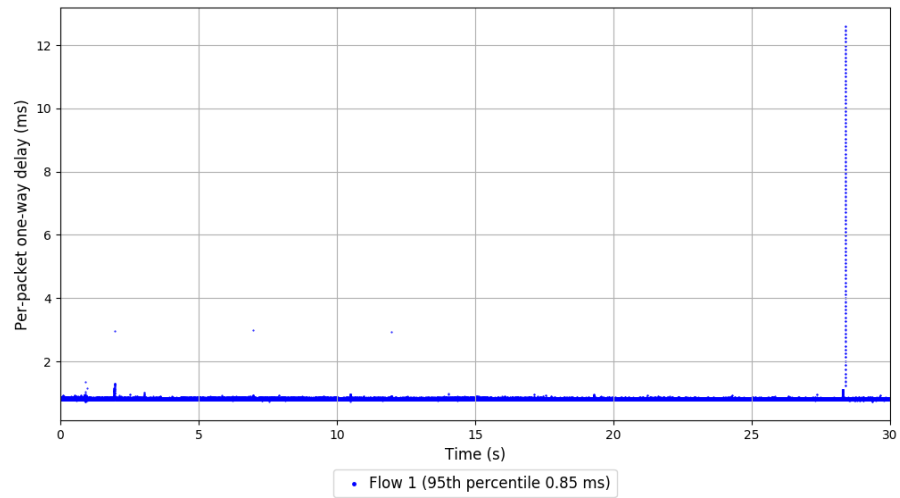
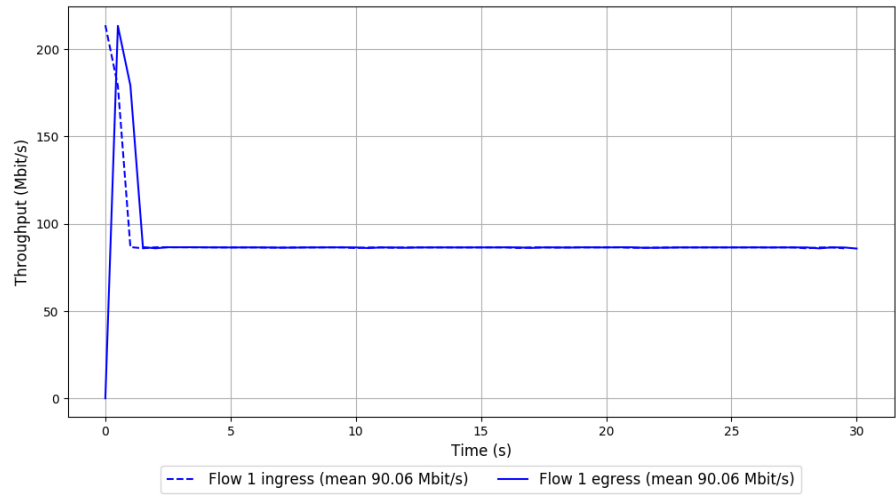
-- Flow 1:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 0.848 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-07-18 06:43:48

End at: 2019-07-18 06:44:18

Local clock offset: 3.237 ms

Remote clock offset: -0.552 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.00%

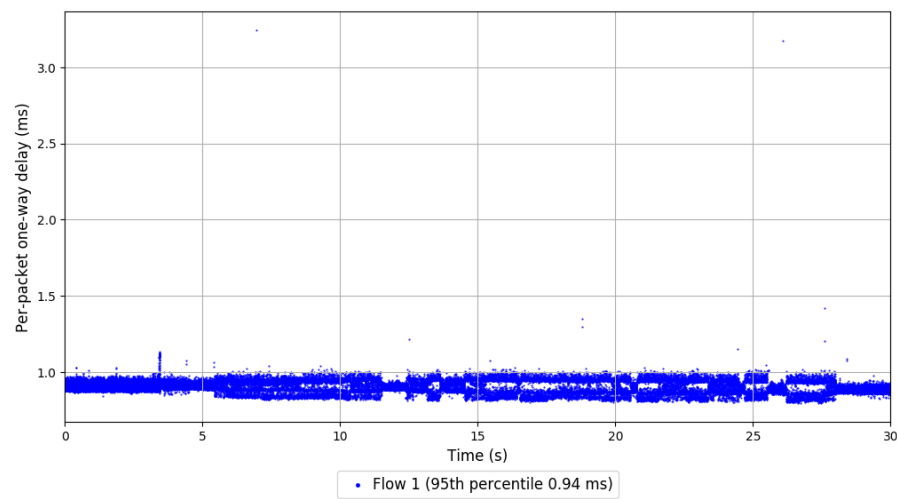
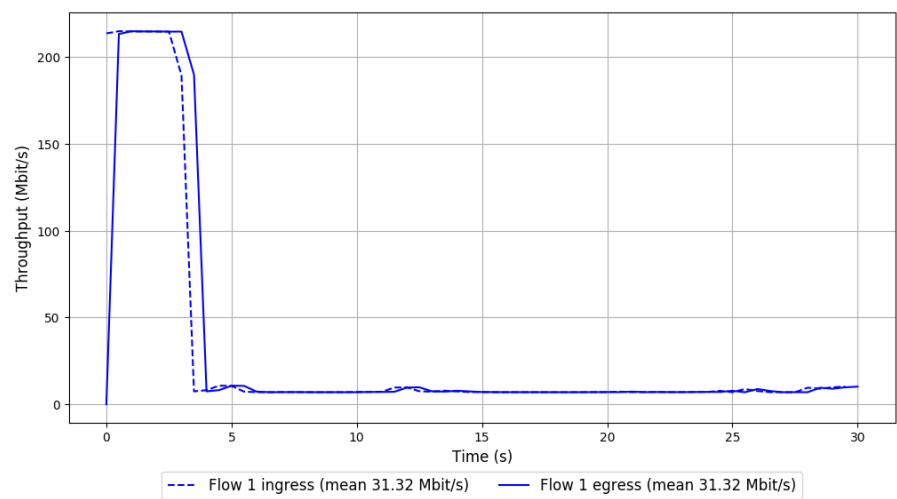
-- Flow 1:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 0.945 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-18 07:17:19

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

Local clock offset: 1.11 ms

Remote clock offset: 1.428 ms

# Below is generated by plot.py at 2019-07-18 08:30:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.01%

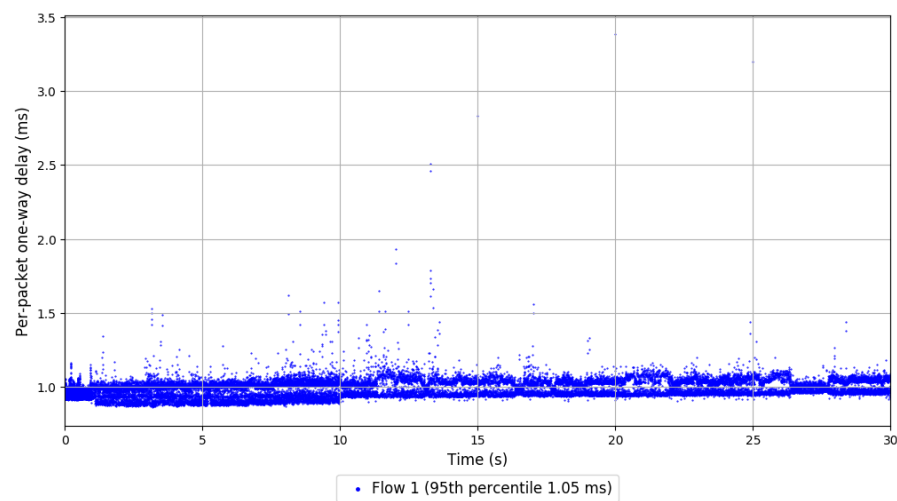
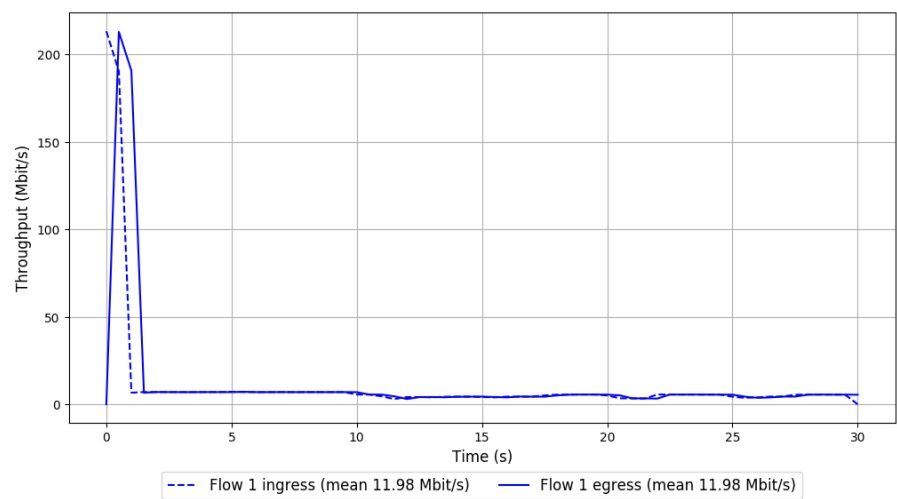
-- Flow 1:

Average throughput: 11.98 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.01%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-07-18 05:13:30

End at: 2019-07-18 05:14:00

Local clock offset: -0.134 ms

Remote clock offset: 1.447 ms

# Below is generated by plot.py at 2019-07-18 08:31:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.95 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.01%

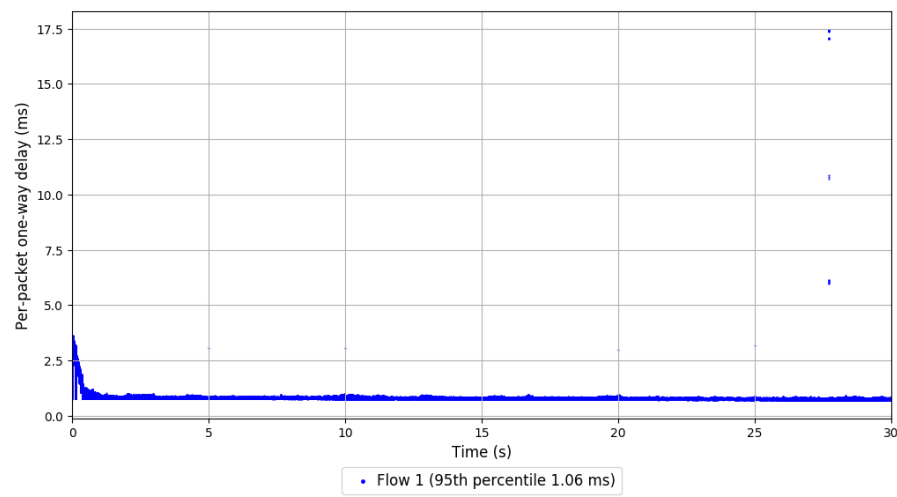
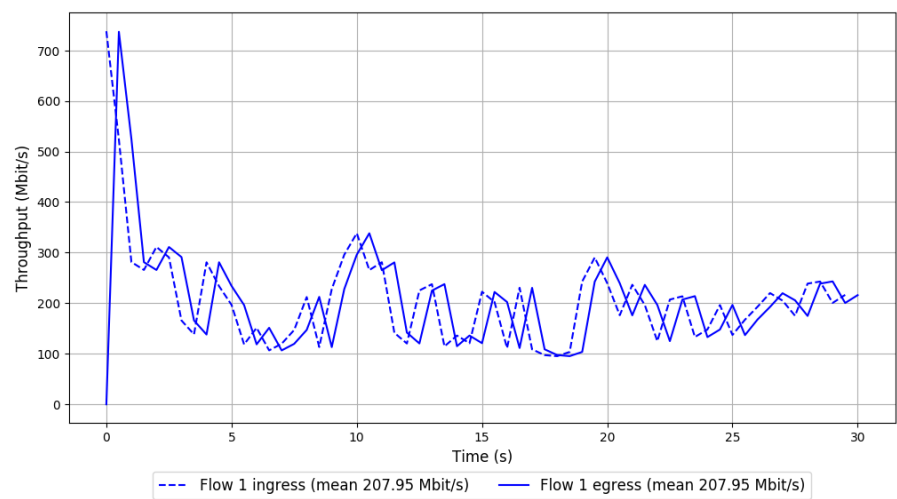
-- Flow 1:

Average throughput: 207.95 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link

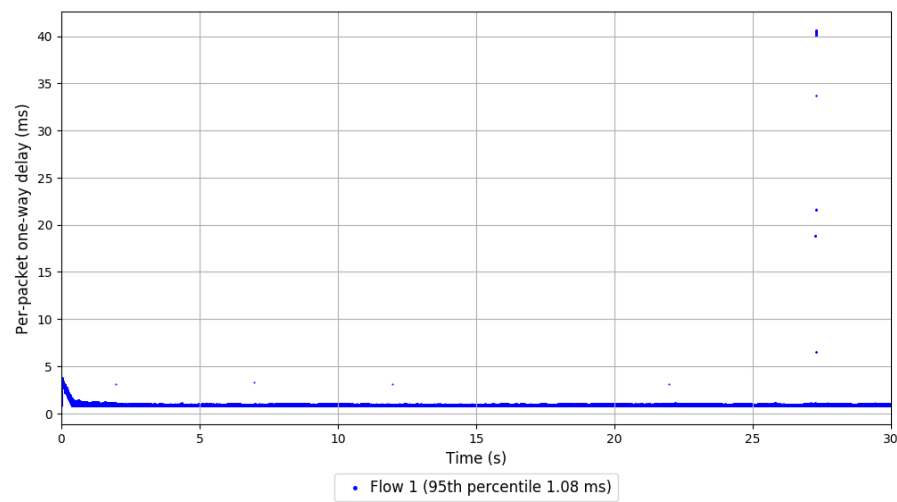
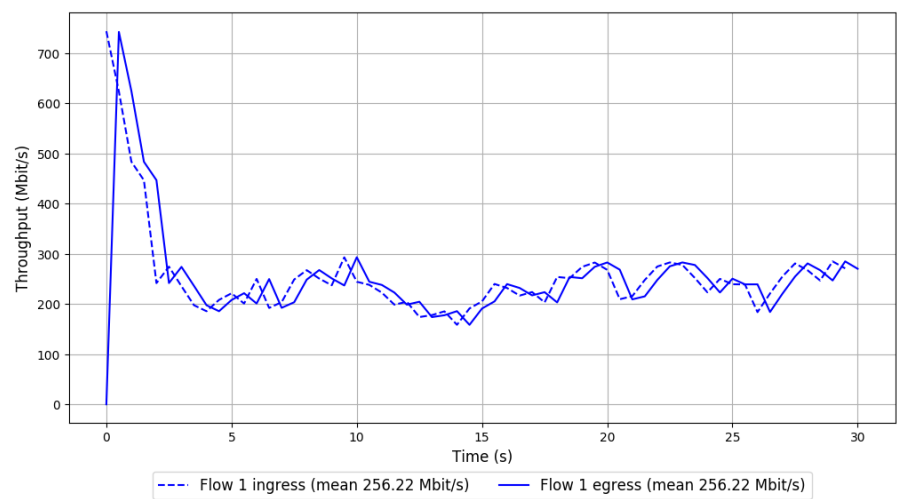


Run 2: Statistics of TCP Vegas

Start at: 2019-07-18 05:46:37  
End at: 2019-07-18 05:47:07  
Local clock offset: -0.201 ms  
Remote clock offset: -0.221 ms

# Below is generated by plot.py at 2019-07-18 08:32:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 256.22 Mbit/s  
95th percentile per-packet one-way delay: 1.083 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 256.22 Mbit/s  
95th percentile per-packet one-way delay: 1.083 ms  
Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2019-07-18 06:20:10

End at: 2019-07-18 06:20:40

Local clock offset: 3.639 ms

Remote clock offset: 3.892 ms

# Below is generated by plot.py at 2019-07-18 08:32:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.89 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.01%

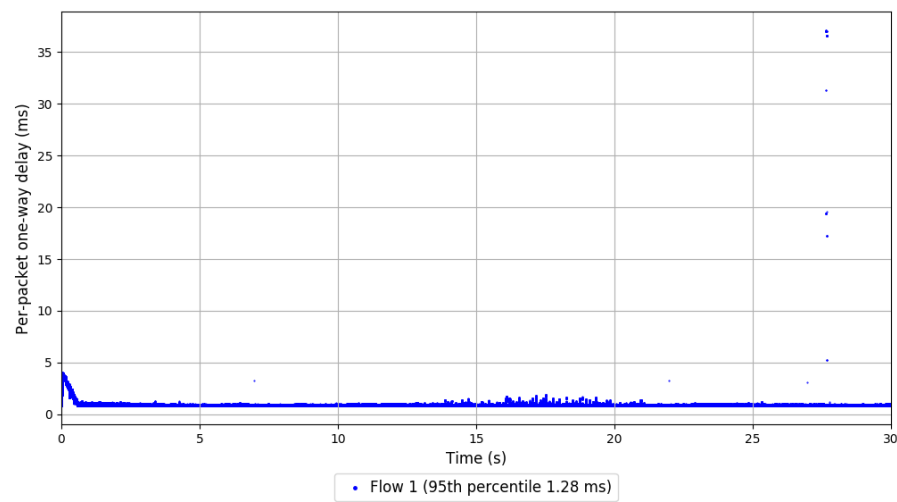
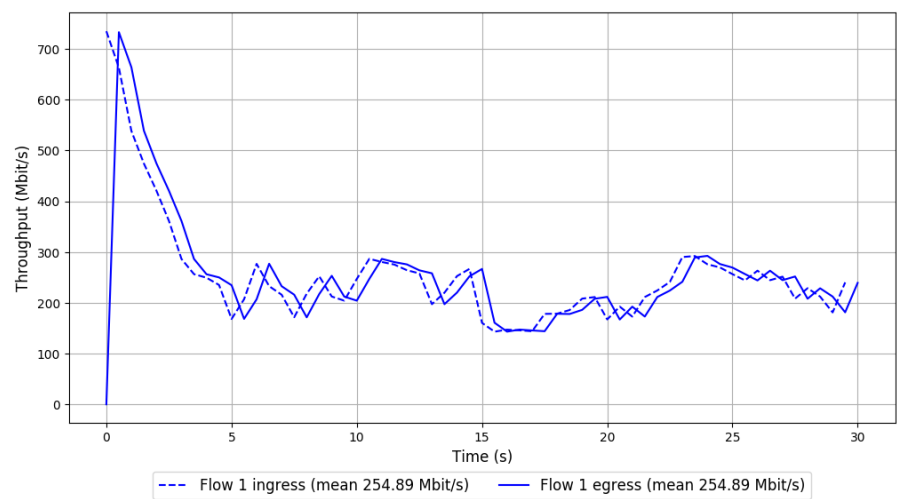
-- Flow 1:

Average throughput: 254.89 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link

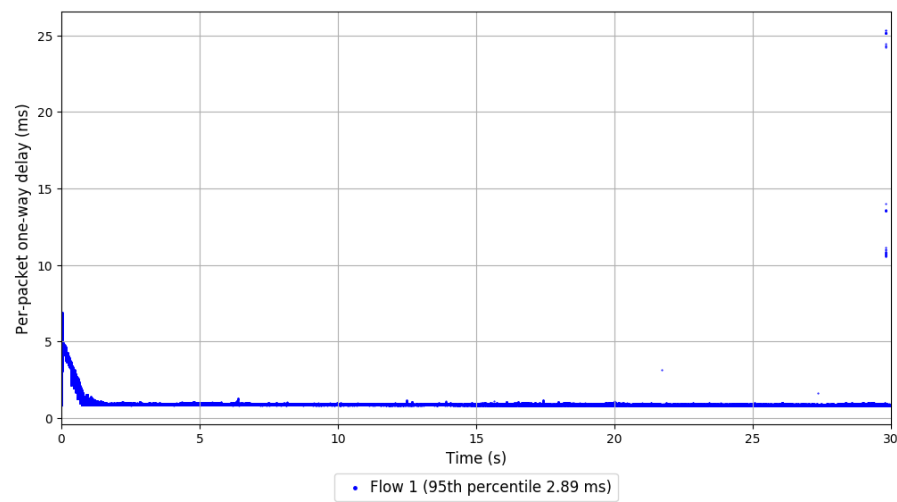
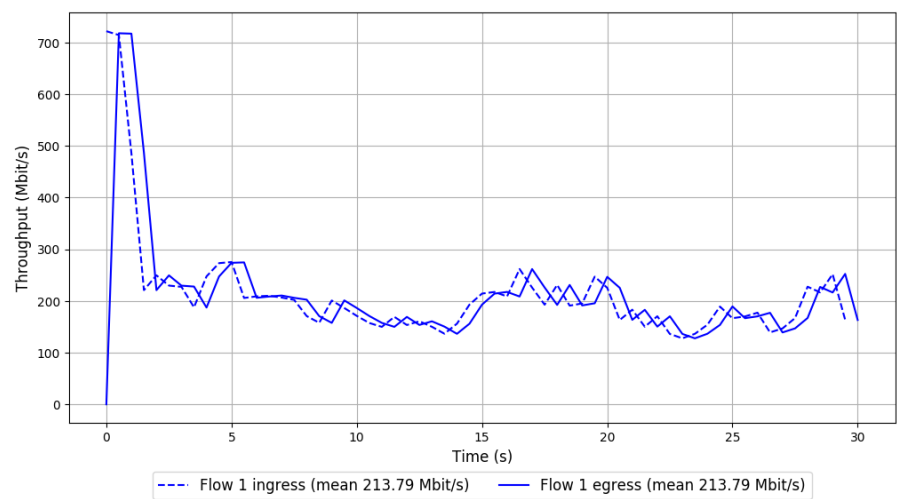


Run 4: Statistics of TCP Vegas

Start at: 2019-07-18 06:53:30  
End at: 2019-07-18 06:54:00  
Local clock offset: 3.321 ms  
Remote clock offset: -1.005 ms

# Below is generated by plot.py at 2019-07-18 08:32:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 213.79 Mbit/s  
95th percentile per-packet one-way delay: 2.894 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 213.79 Mbit/s  
95th percentile per-packet one-way delay: 2.894 ms  
Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link





Run 5: Statistics of TCP Vegas

Start at: 2019-07-18 07:26:54

End at: 2019-07-18 07:27:24

Local clock offset: 0.686 ms

Remote clock offset: 1.686 ms

# Below is generated by plot.py at 2019-07-18 08:33:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 263.45 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.00%

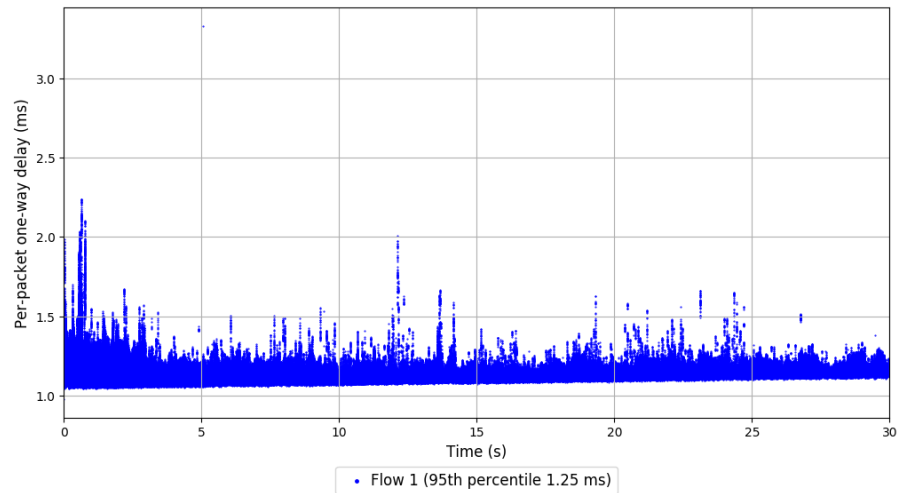
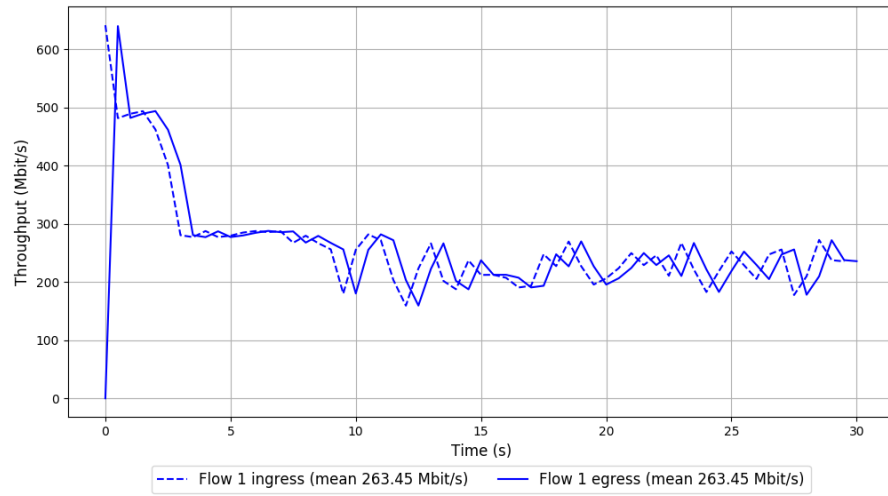
-- Flow 1:

Average throughput: 263.45 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.00%

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



Run 1: Statistics of Verus

Start at: 2019-07-18 05:06:16

End at: 2019-07-18 05:06:46

Local clock offset: -0.069 ms

Remote clock offset: 1.127 ms

# Below is generated by plot.py at 2019-07-18 08:34:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.65 Mbit/s

95th percentile per-packet one-way delay: 2.547 ms

Loss rate: 0.01%

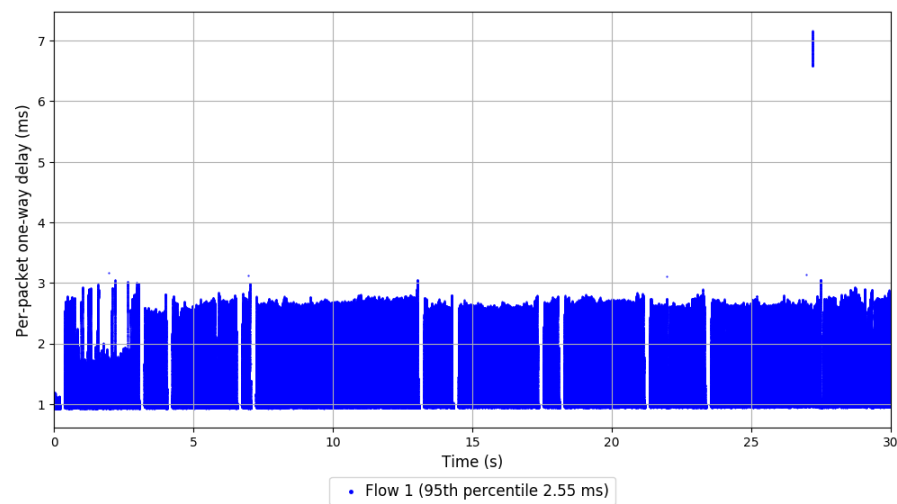
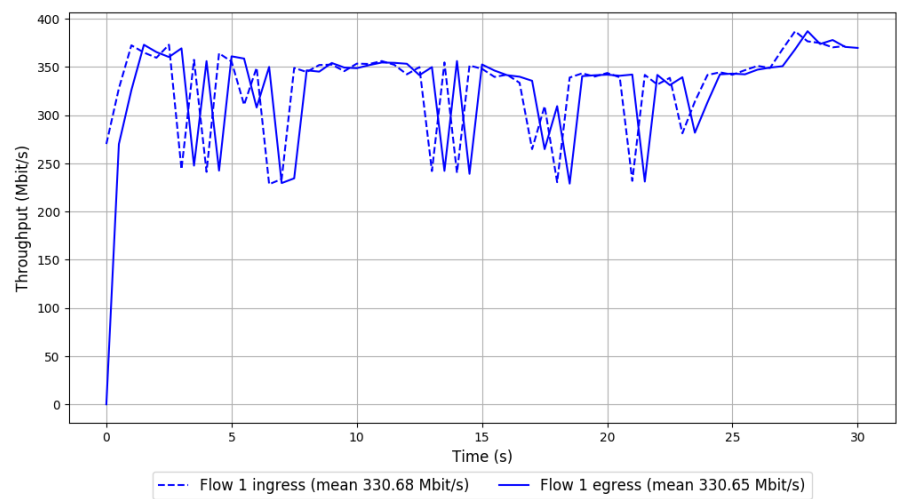
-- Flow 1:

Average throughput: 330.65 Mbit/s

95th percentile per-packet one-way delay: 2.547 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link

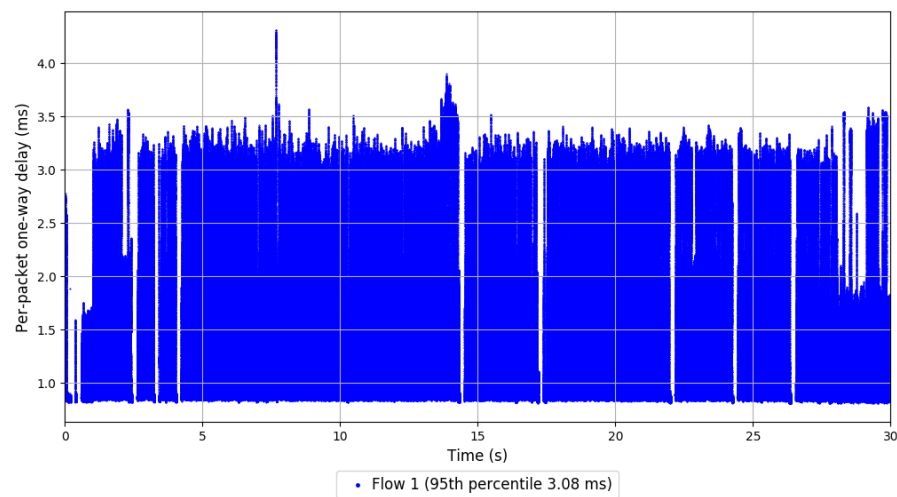
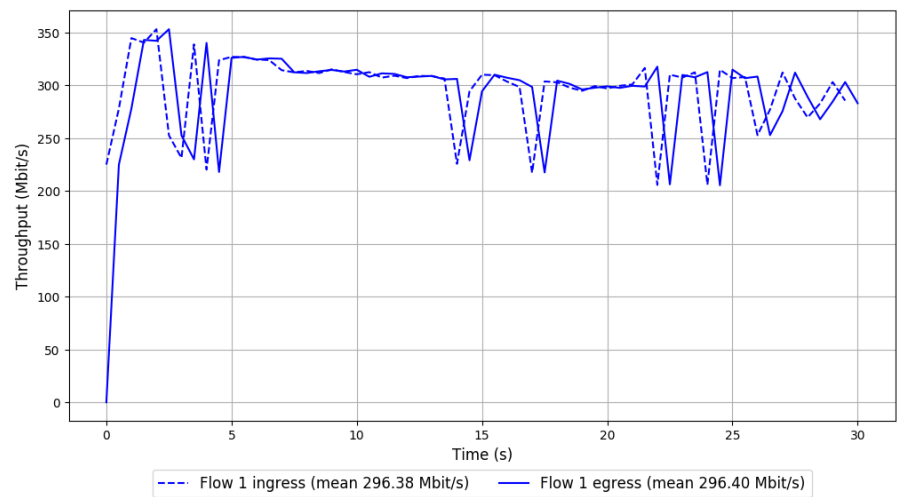


Run 2: Statistics of Verus

Start at: 2019-07-18 05:39:30  
End at: 2019-07-18 05:40:00  
Local clock offset: -0.252 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-07-18 08:34:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 296.40 Mbit/s  
95th percentile per-packet one-way delay: 3.077 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 296.40 Mbit/s  
95th percentile per-packet one-way delay: 3.077 ms  
Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-07-18 06:12:58

End at: 2019-07-18 06:13:28

Local clock offset: 3.127 ms

Remote clock offset: 3.524 ms

# Below is generated by plot.py at 2019-07-18 08:34:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 321.66 Mbit/s

95th percentile per-packet one-way delay: 2.376 ms

Loss rate: 0.02%

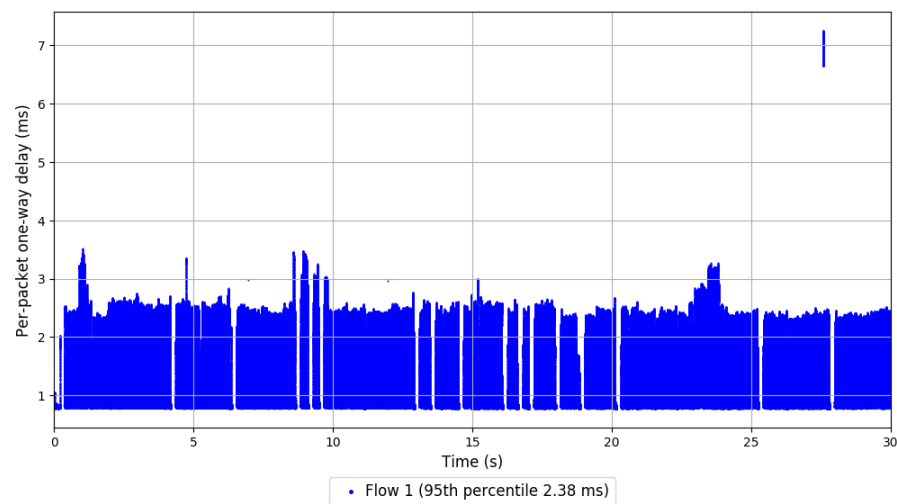
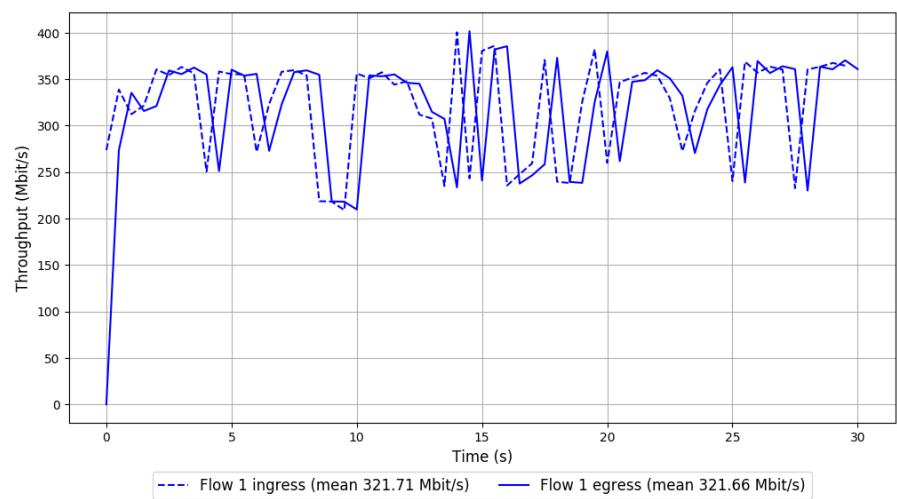
-- Flow 1:

Average throughput: 321.66 Mbit/s

95th percentile per-packet one-way delay: 2.376 ms

Loss rate: 0.02%

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-07-18 06:46:18

End at: 2019-07-18 06:46:48

Local clock offset: 3.242 ms

Remote clock offset: -0.68 ms

# Below is generated by plot.py at 2019-07-18 08:34:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 304.41 Mbit/s

95th percentile per-packet one-way delay: 2.239 ms

Loss rate: 0.01%

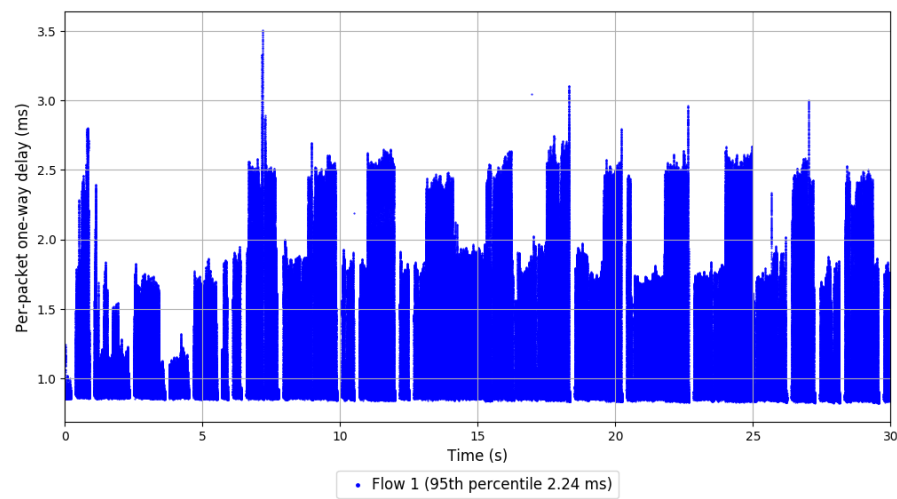
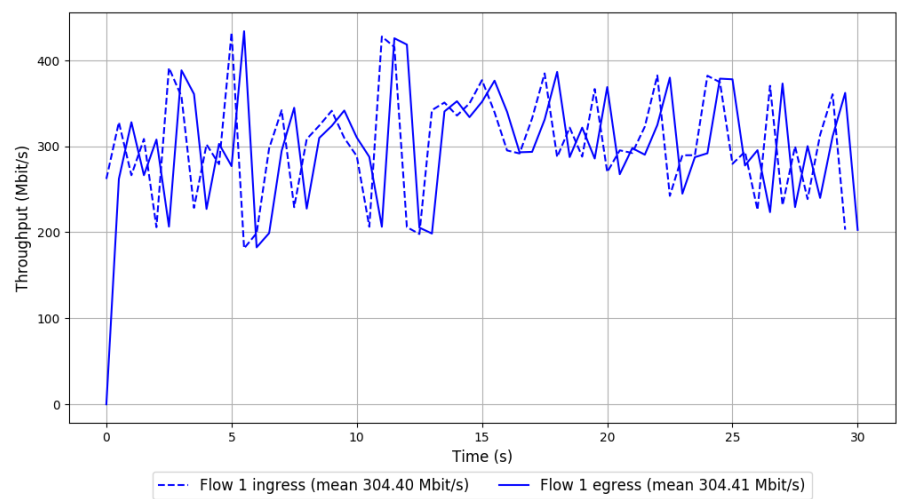
-- Flow 1:

Average throughput: 304.41 Mbit/s

95th percentile per-packet one-way delay: 2.239 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-07-18 07:19:47

End at: 2019-07-18 07:20:17

Local clock offset: 1.076 ms

Remote clock offset: 1.512 ms

# Below is generated by plot.py at 2019-07-18 08:35:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 276.30 Mbit/s

95th percentile per-packet one-way delay: 2.426 ms

Loss rate: 0.00%

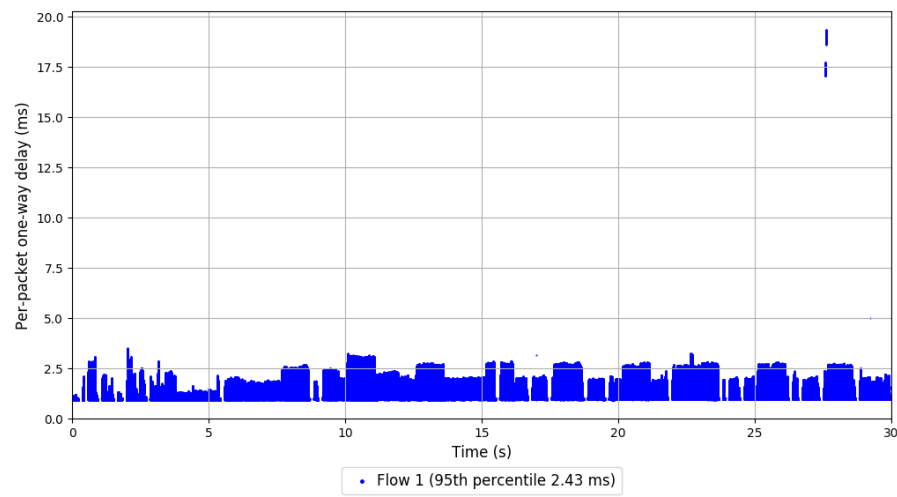
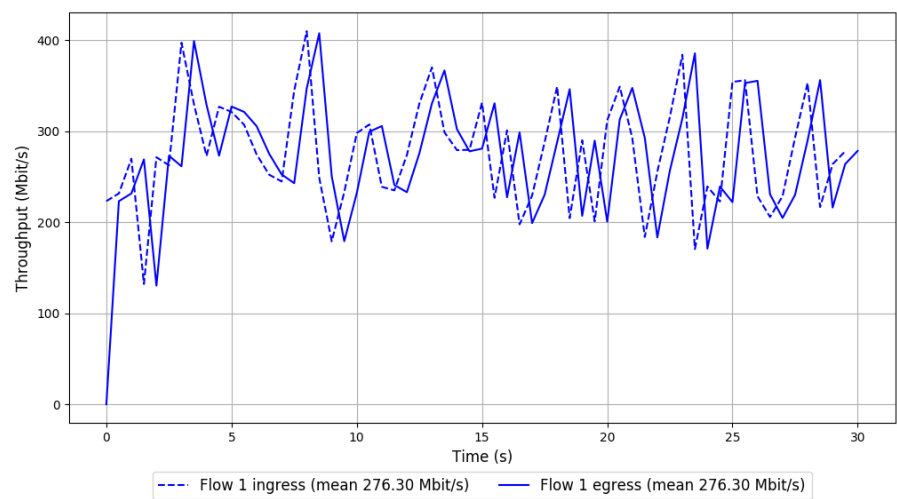
-- Flow 1:

Average throughput: 276.30 Mbit/s

95th percentile per-packet one-way delay: 2.426 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-07-18 05:12:02

End at: 2019-07-18 05:12:32

Local clock offset: -0.105 ms

Remote clock offset: 1.355 ms

# Below is generated by plot.py at 2019-07-18 08:35:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 310.40 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.00%

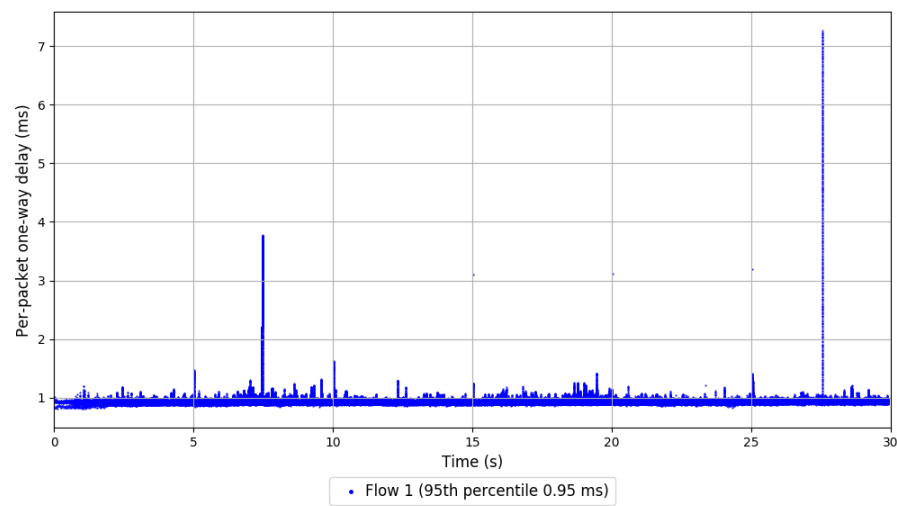
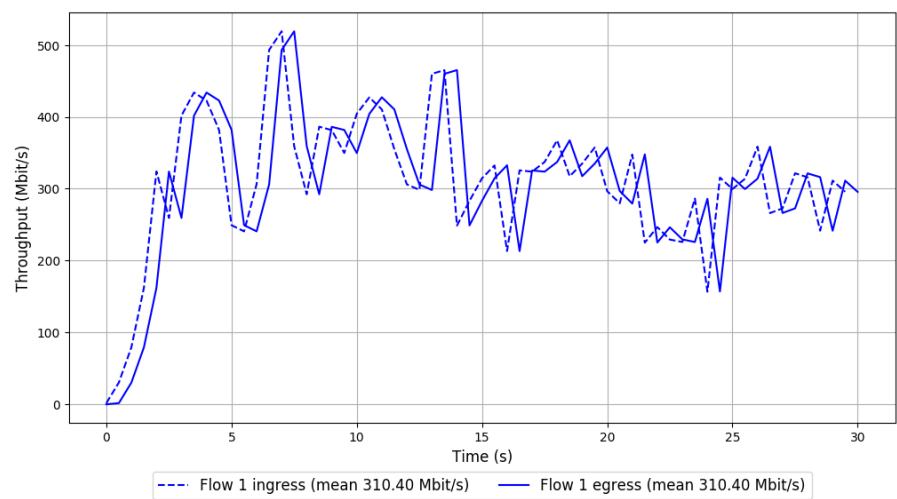
-- Flow 1:

Average throughput: 310.40 Mbit/s

95th percentile per-packet one-way delay: 0.949 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

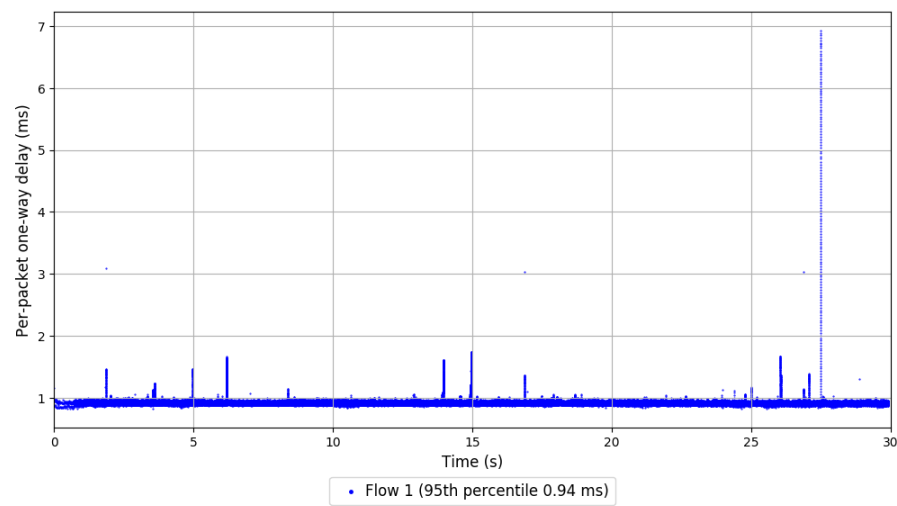
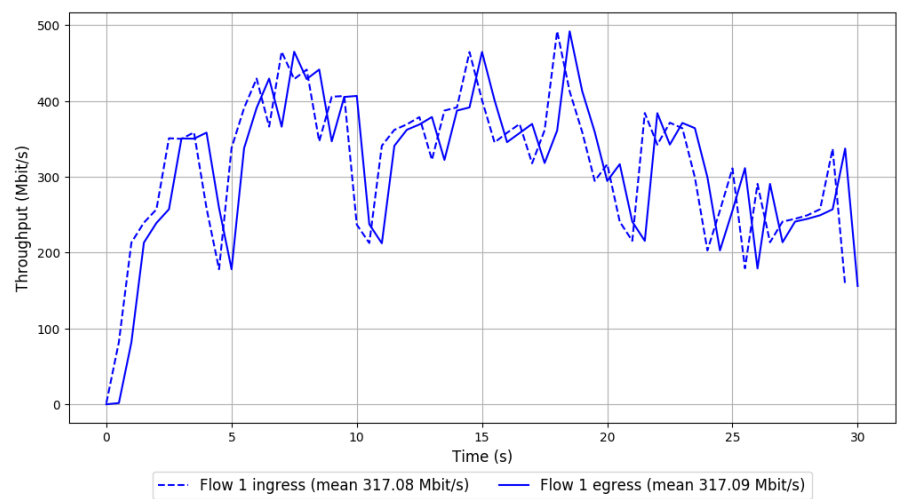


Run 2: Statistics of PCC-Vivace

Start at: 2019-07-18 05:45:09  
End at: 2019-07-18 05:45:39  
Local clock offset: -0.228 ms  
Remote clock offset: -0.269 ms

# Below is generated by plot.py at 2019-07-18 08:35:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 317.09 Mbit/s  
95th percentile per-packet one-way delay: 0.936 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 317.09 Mbit/s  
95th percentile per-packet one-way delay: 0.936 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link





Run 3: Statistics of PCC-Vivace

Start at: 2019-07-18 06:18:41

End at: 2019-07-18 06:19:11

Local clock offset: 3.547 ms

Remote clock offset: 3.779 ms

# Below is generated by plot.py at 2019-07-18 08:36:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.58 Mbit/s

95th percentile per-packet one-way delay: 0.913 ms

Loss rate: 0.00%

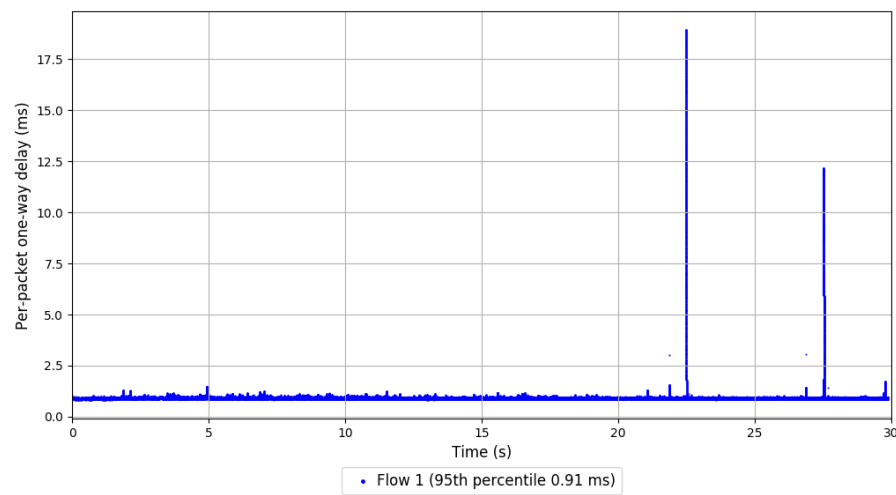
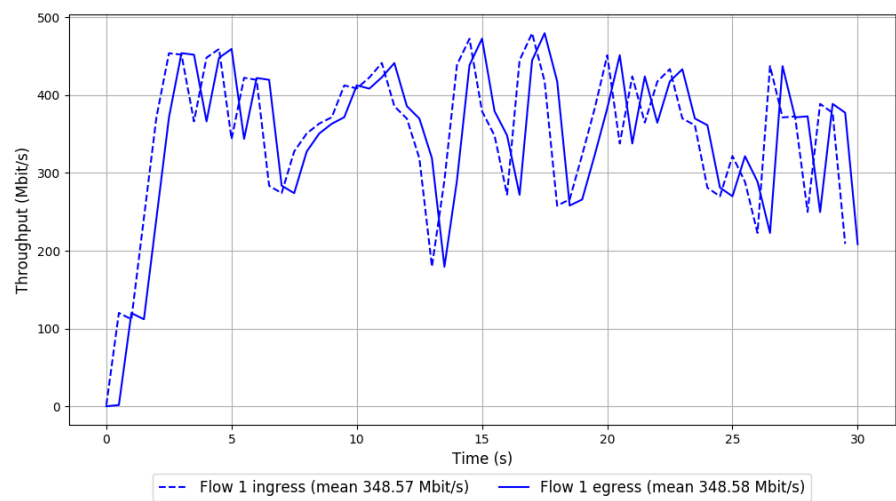
-- Flow 1:

Average throughput: 348.58 Mbit/s

95th percentile per-packet one-way delay: 0.913 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-07-18 06:52:04

End at: 2019-07-18 06:52:34

Local clock offset: 3.307 ms

Remote clock offset: -0.943 ms

# Below is generated by plot.py at 2019-07-18 08:36:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 266.34 Mbit/s

95th percentile per-packet one-way delay: 0.873 ms

Loss rate: 0.00%

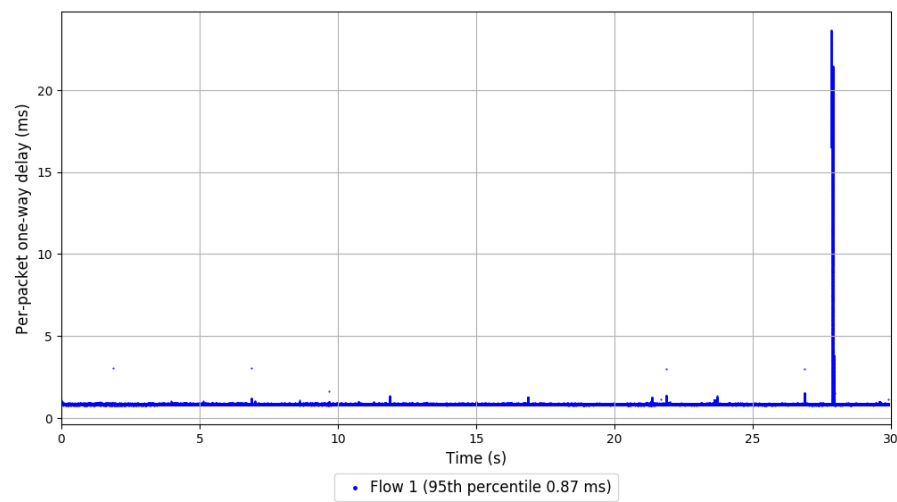
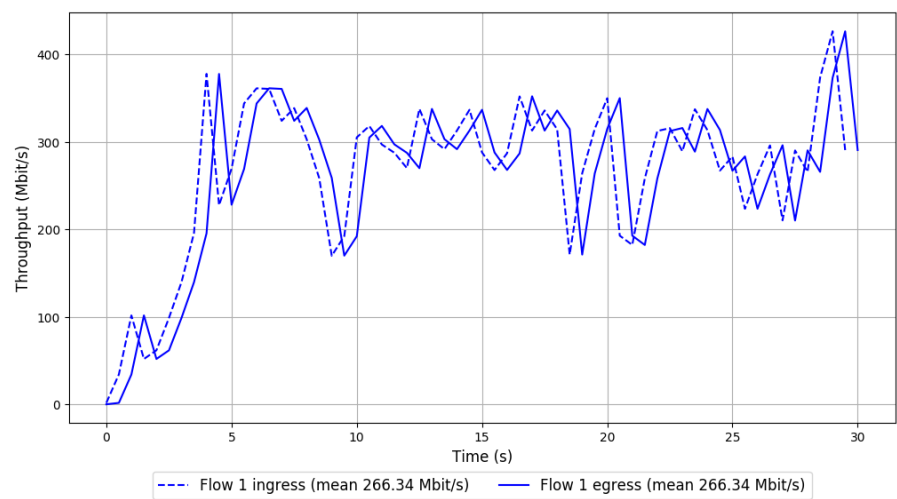
-- Flow 1:

Average throughput: 266.34 Mbit/s

95th percentile per-packet one-way delay: 0.873 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-07-18 07:25:30

End at: 2019-07-18 07:26:00

Local clock offset: 0.88 ms

Remote clock offset: 1.812 ms

# Below is generated by plot.py at 2019-07-18 08:36:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 241.56 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.01%

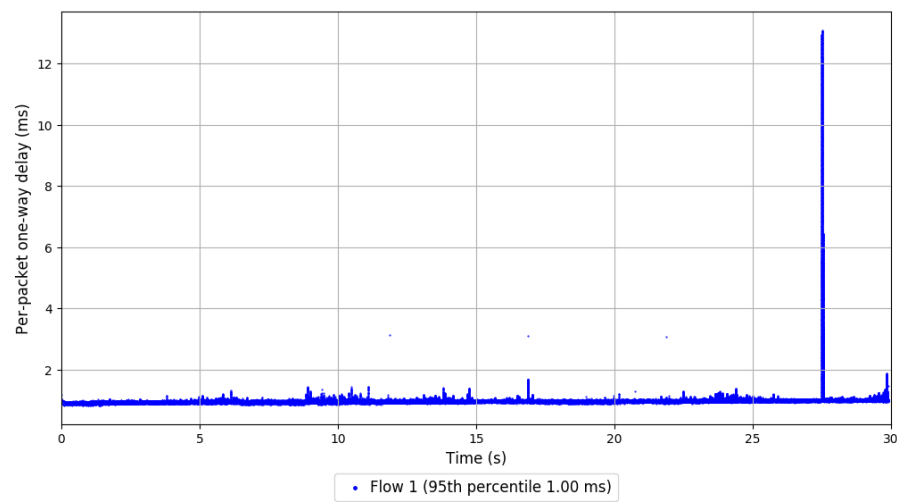
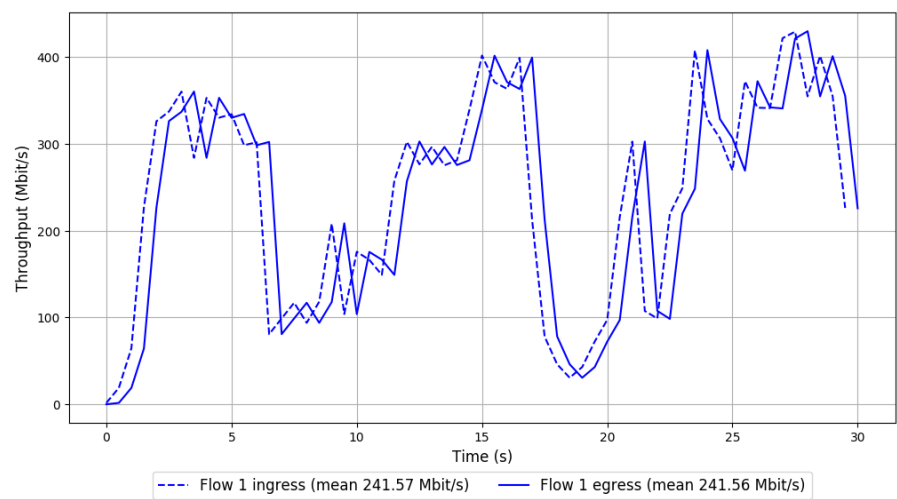
-- Flow 1:

Average throughput: 241.56 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-07-18 04:59:15

End at: 2019-07-18 04:59:45

Local clock offset: -0.15 ms

Remote clock offset: 0.886 ms

# Below is generated by plot.py at 2019-07-18 08:36:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.00%

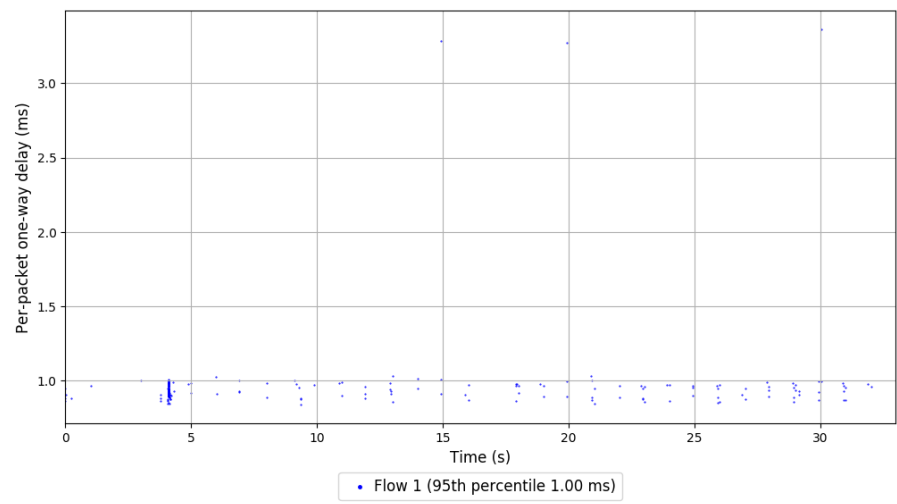
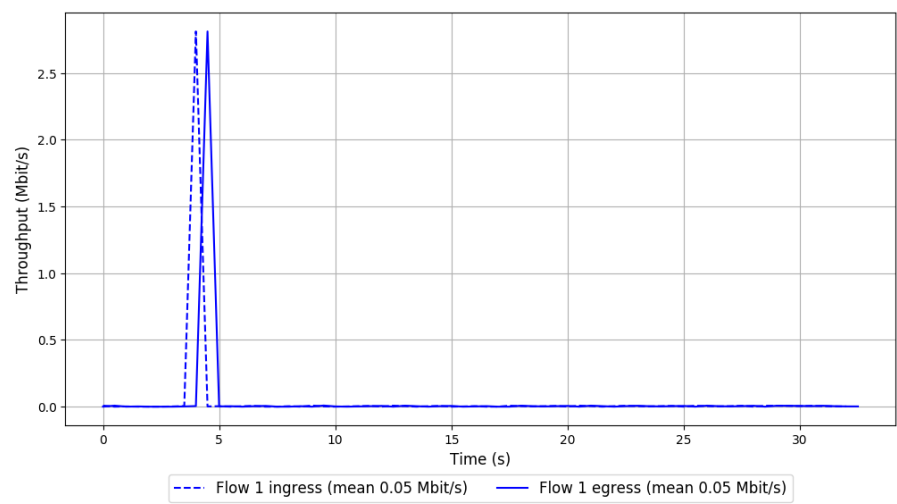
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.001 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



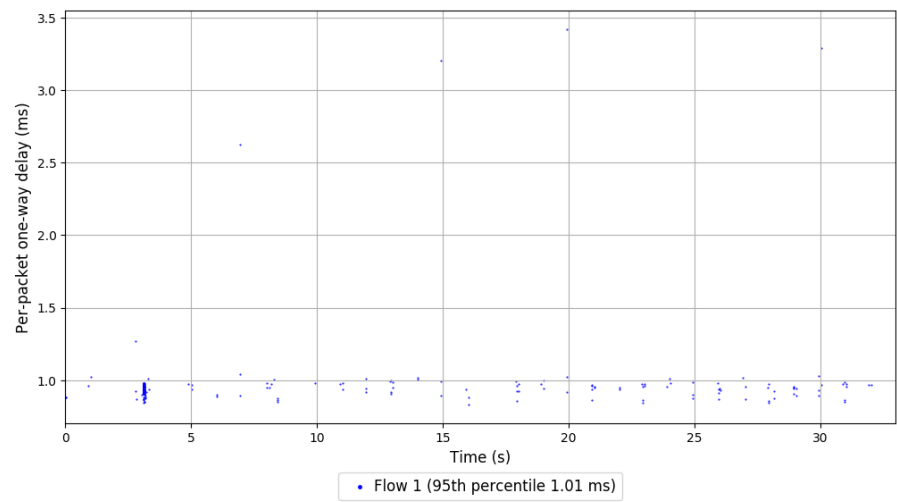
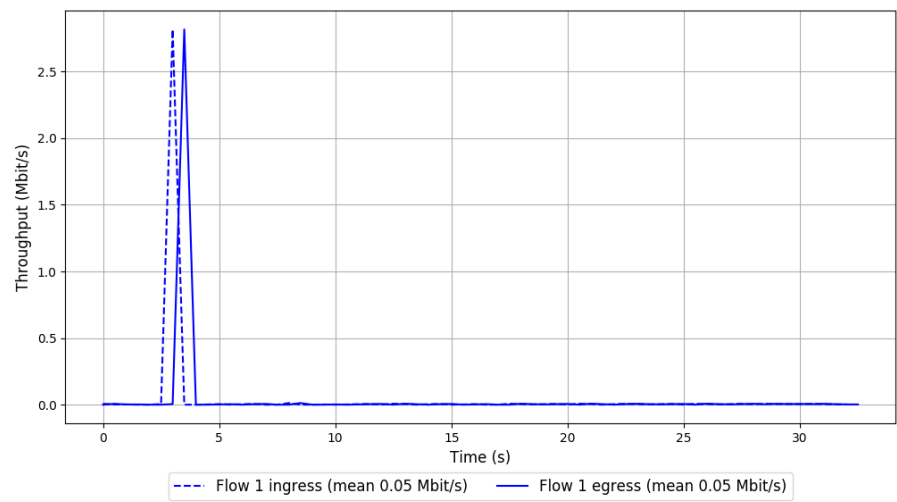


Run 2: Statistics of WebRTC media

Start at: 2019-07-18 05:32:33  
End at: 2019-07-18 05:33:03  
Local clock offset: -0.233 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2019-07-18 08:36:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.013 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 1.013 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-07-18 06:05:59

End at: 2019-07-18 06:06:29

Local clock offset: 2.408 ms

Remote clock offset: 3.06 ms

# Below is generated by plot.py at 2019-07-18 08:36:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.914 ms

Loss rate: 0.05%

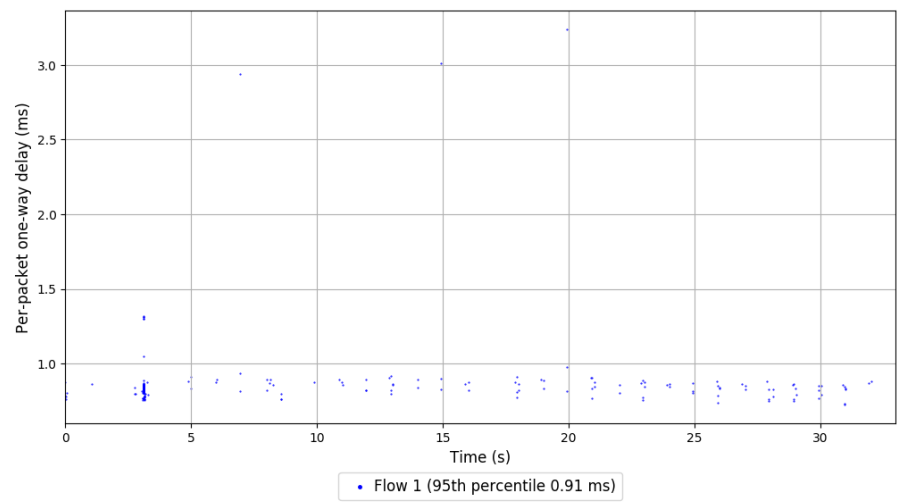
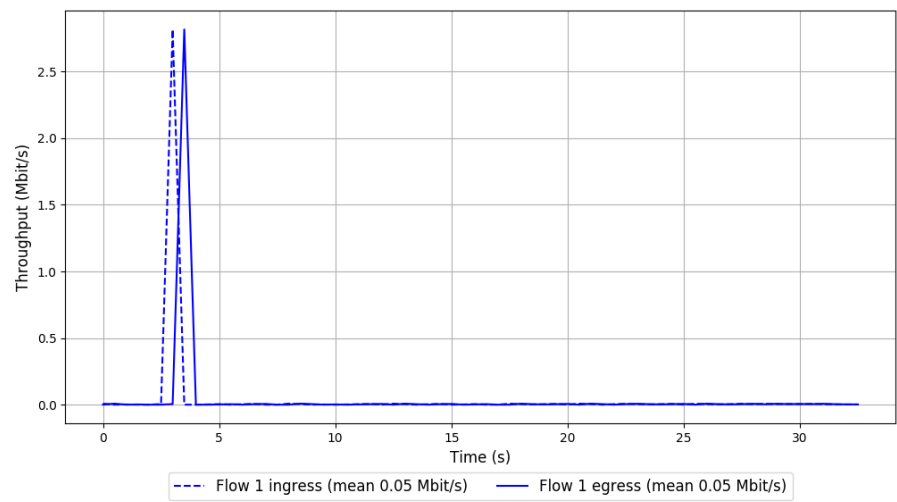
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 0.914 ms

Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link

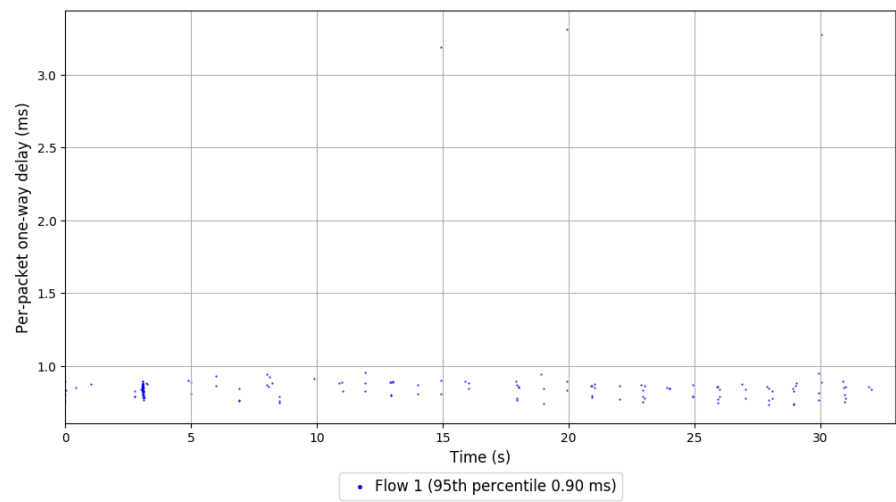
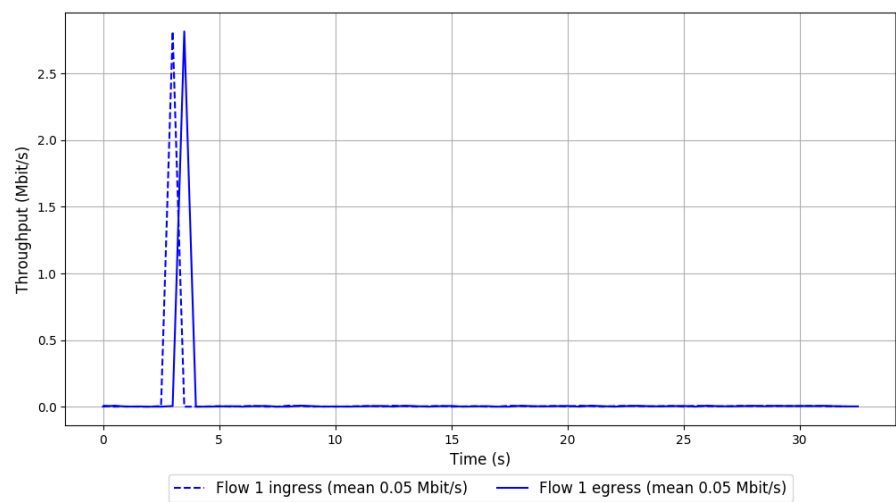


Run 4: Statistics of WebRTC media

Start at: 2019-07-18 06:39:20  
End at: 2019-07-18 06:39:50  
Local clock offset: 3.238 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-07-18 08:36:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 0.899 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 0.899 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-18 07:12:52

End at: 2019-07-18 07:13:22

Local clock offset: 1.27 ms

Remote clock offset: 1.213 ms

# Below is generated by plot.py at 2019-07-18 08:36:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

