

Pantheon Report

Generated at 2018-07-03 16:47:51 (UTC).

Data path: AWS California 1 Ethernet (*local*) → Stanford Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

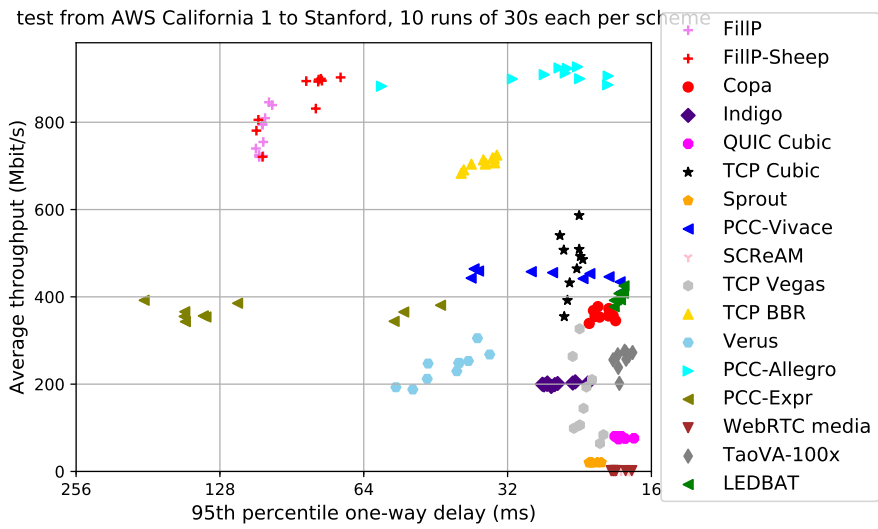
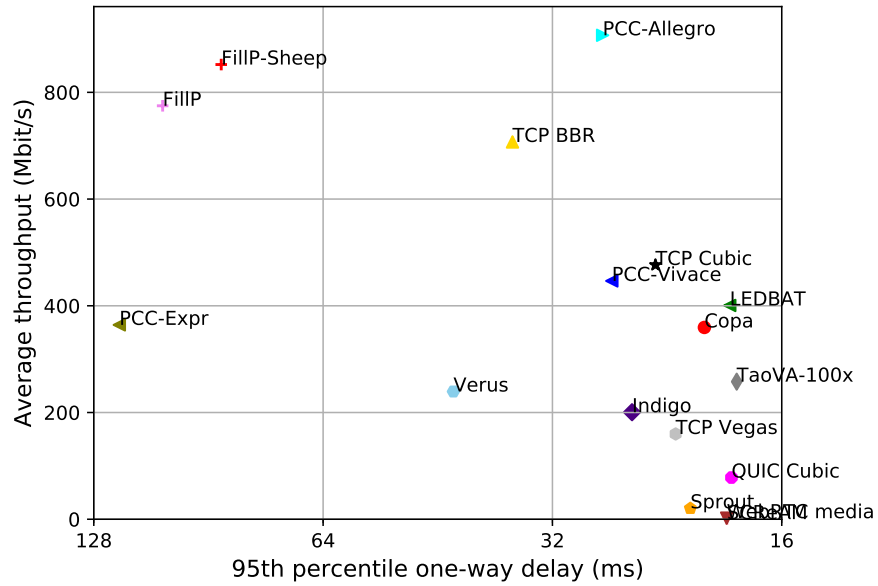
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 1 to Stanford, 10 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	707.04	36.11	0.25
Copa	10	359.42	20.21	0.00
TCP Cubic	10	476.52	23.44	0.05
FillP	10	774.80	103.95	3.75
FillP-Sheep	10	852.09	87.08	10.93
Indigo	10	200.55	25.16	0.01
LEDBAT	10	400.62	18.72	0.00
PCC-Allegro	10	906.93	27.49	0.40
PCC-Expr	10	364.20	118.50	2.86
QUIC Cubic	10	78.11	18.63	0.00
SCReAM	10	0.22	18.88	0.00
Sprout	10	20.45	21.09	0.00
TaoVA-100x	10	257.81	18.33	0.00
TCP Vegas	10	159.80	22.05	0.09
Verus	10	239.34	43.17	16.33
PCC-Vivace	10	446.57	26.74	0.00
WebRTC media	10	1.98	18.90	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-07-03 10:24:44

End at: 2018-07-03 10:25:14

Local clock offset: 3.93 ms

Remote clock offset: 3.119 ms

Below is generated by plot.py at 2018-07-03 15:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 690.96 Mbit/s

95th percentile per-packet one-way delay: 39.533 ms

Loss rate: 0.29%

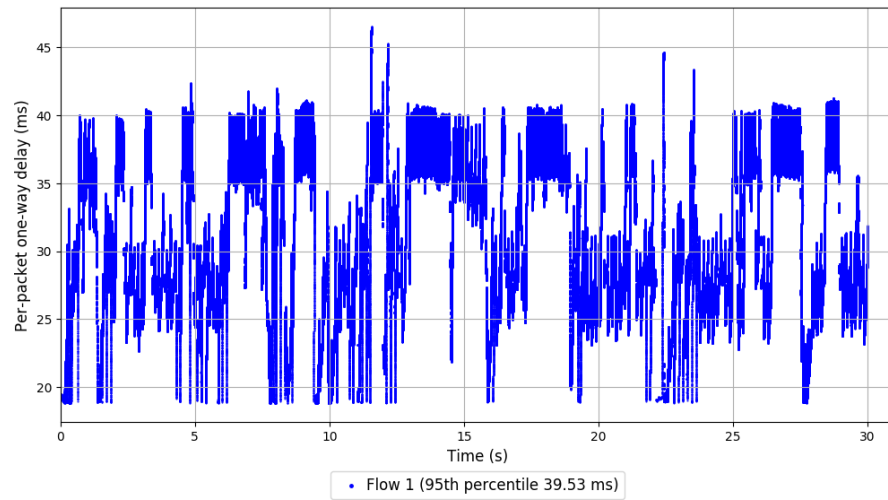
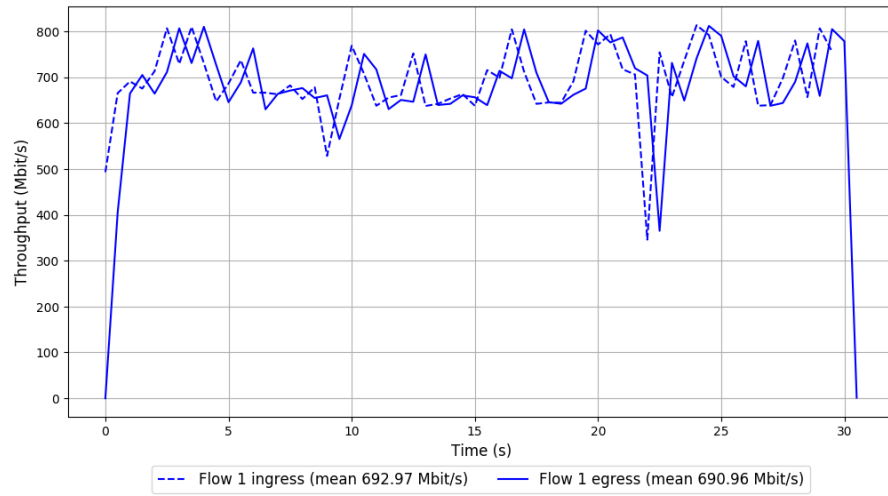
-- Flow 1:

Average throughput: 690.96 Mbit/s

95th percentile per-packet one-way delay: 39.533 ms

Loss rate: 0.29%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-03 10:50:27

End at: 2018-07-03 10:50:57

Local clock offset: 4.998 ms

Remote clock offset: 3.01 ms

Below is generated by plot.py at 2018-07-03 15:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 683.13 Mbit/s

95th percentile per-packet one-way delay: 40.010 ms

Loss rate: 0.12%

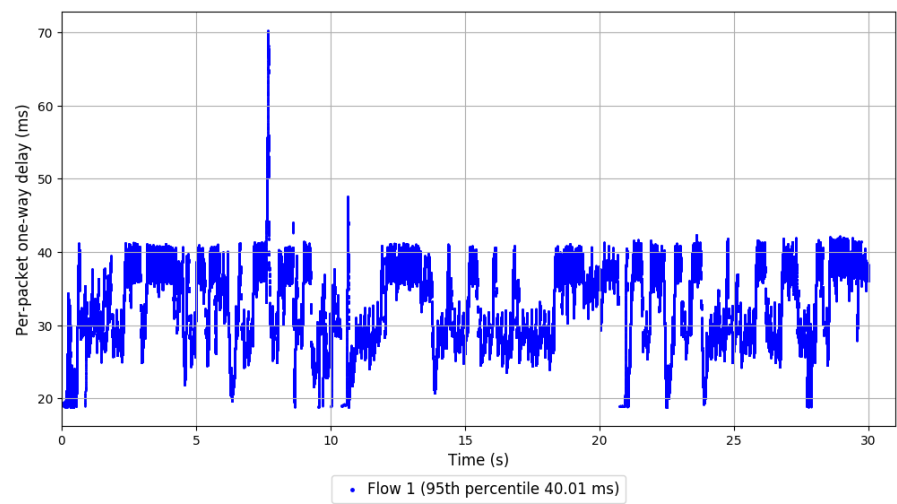
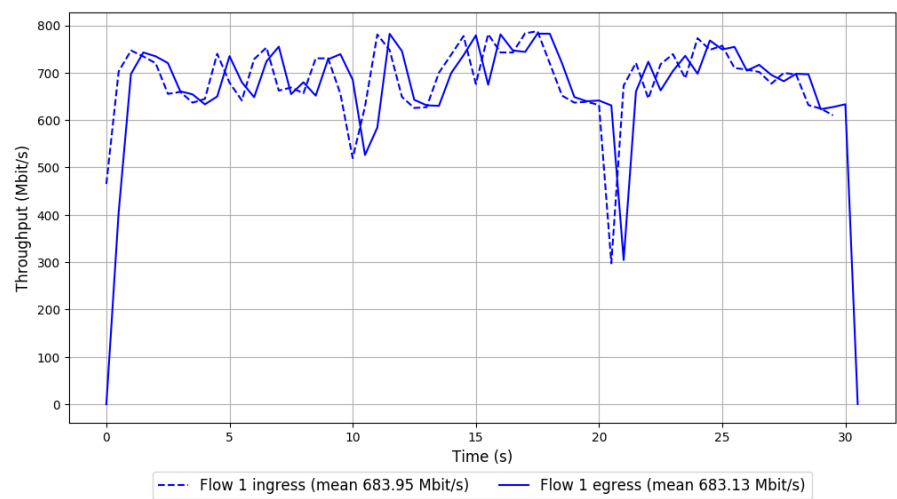
-- Flow 1:

Average throughput: 683.13 Mbit/s

95th percentile per-packet one-way delay: 40.010 ms

Loss rate: 0.12%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-03 11:16:16

End at: 2018-07-03 11:16:46

Local clock offset: 1.962 ms

Remote clock offset: 1.599 ms

Below is generated by plot.py at 2018-07-03 15:01:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 704.14 Mbit/s

95th percentile per-packet one-way delay: 38.102 ms

Loss rate: 0.23%

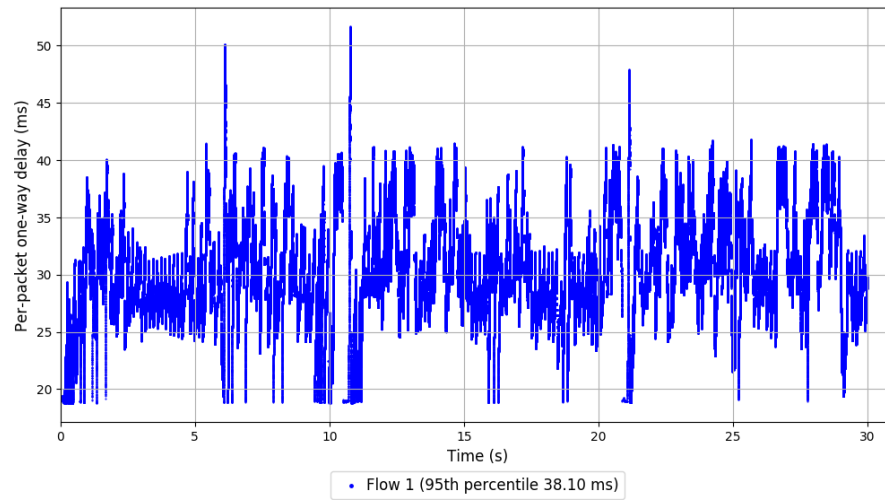
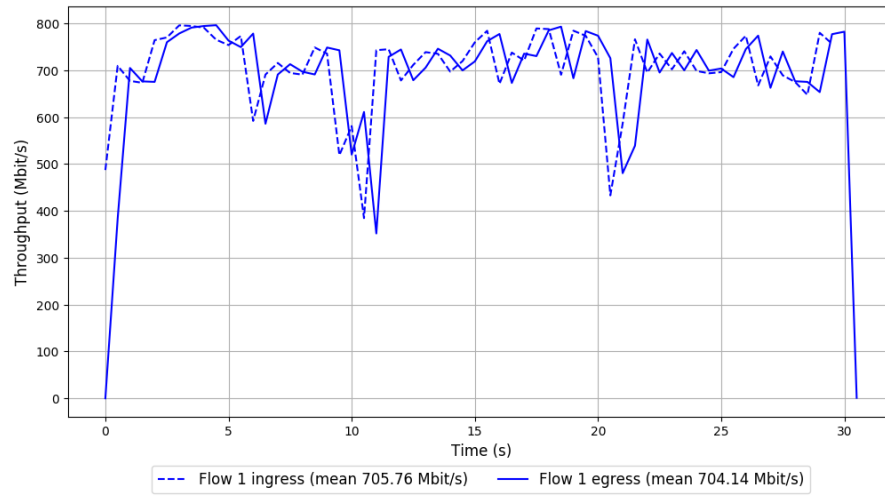
-- Flow 1:

Average throughput: 704.14 Mbit/s

95th percentile per-packet one-way delay: 38.102 ms

Loss rate: 0.23%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-03 11:42:13

End at: 2018-07-03 11:42:43

Local clock offset: 0.563 ms

Remote clock offset: -0.95 ms

Below is generated by plot.py at 2018-07-03 15:01:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 714.01 Mbit/s

95th percentile per-packet one-way delay: 35.959 ms

Loss rate: 0.17%

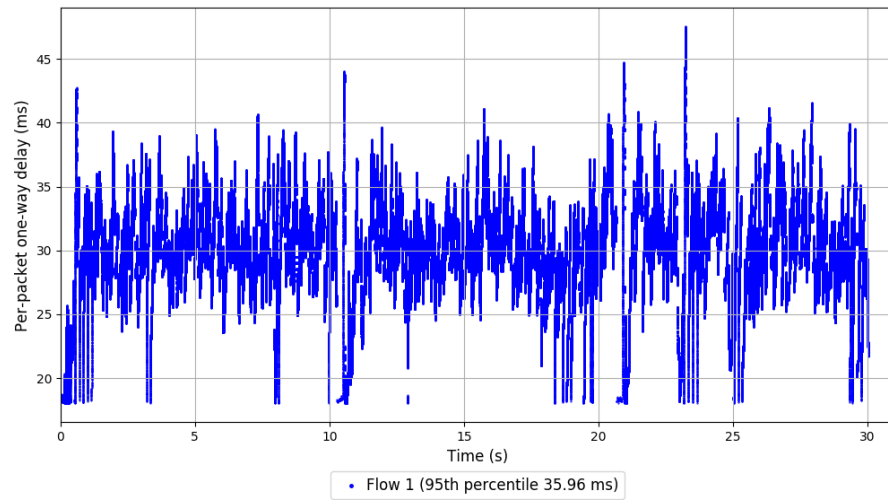
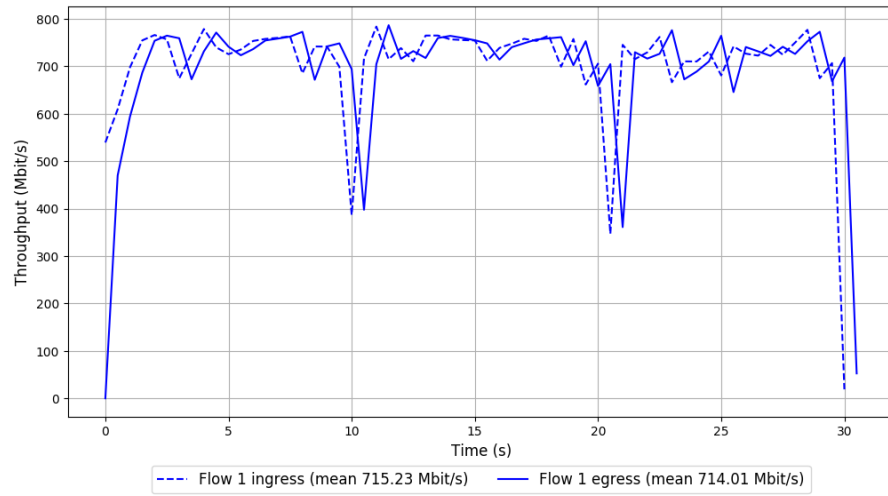
-- Flow 1:

Average throughput: 714.01 Mbit/s

95th percentile per-packet one-way delay: 35.959 ms

Loss rate: 0.17%

Run 4: Report of TCP BBR — Data Link

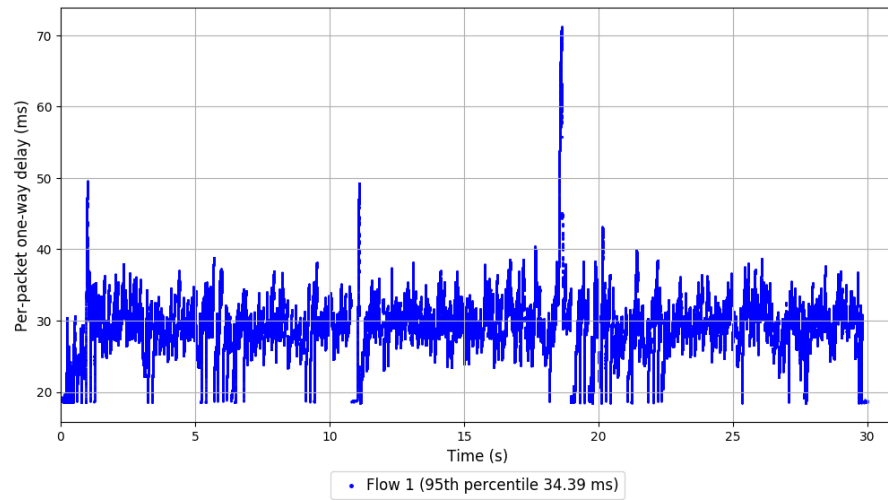
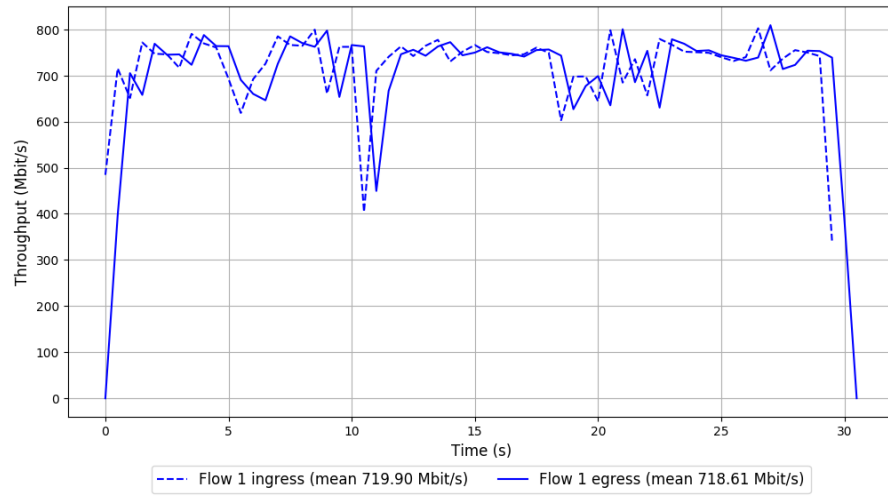


Run 5: Statistics of TCP BBR

Start at: 2018-07-03 12:07:58
End at: 2018-07-03 12:08:28
Local clock offset: -0.845 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-07-03 15:01:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 718.61 Mbit/s
95th percentile per-packet one-way delay: 34.393 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 718.61 Mbit/s
95th percentile per-packet one-way delay: 34.393 ms
Loss rate: 0.18%

Run 5: Report of TCP BBR — Data Link

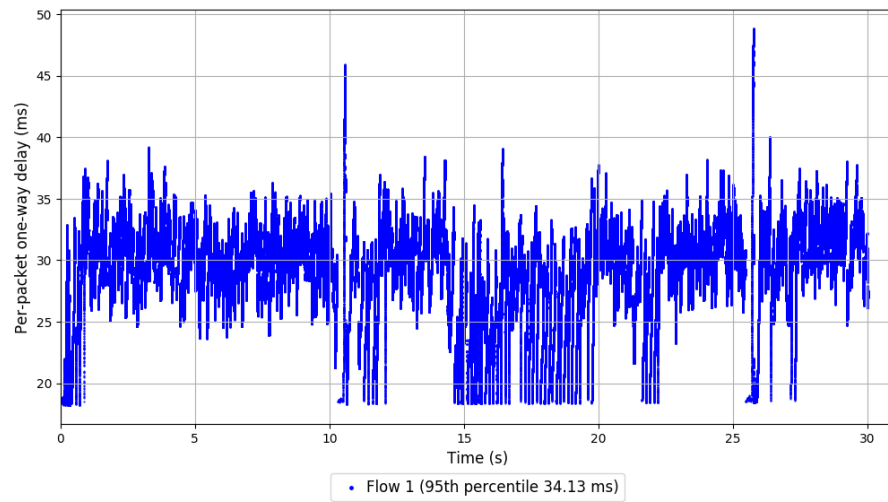
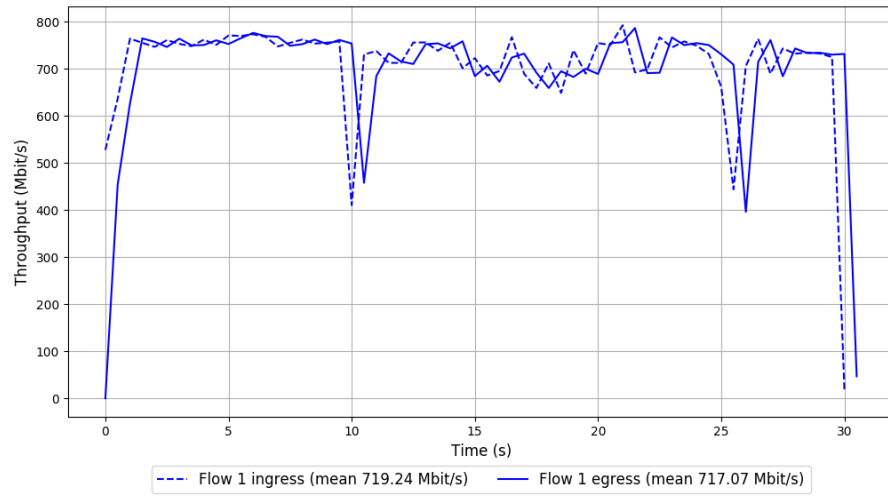


Run 6: Statistics of TCP BBR

Start at: 2018-07-03 12:33:45
End at: 2018-07-03 12:34:15
Local clock offset: -3.299 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-07-03 15:01:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 717.07 Mbit/s
95th percentile per-packet one-way delay: 34.128 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 717.07 Mbit/s
95th percentile per-packet one-way delay: 34.128 ms
Loss rate: 0.30%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-03 12:59:24

End at: 2018-07-03 12:59:54

Local clock offset: 0.851 ms

Remote clock offset: 1.301 ms

Below is generated by plot.py at 2018-07-03 15:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 704.30 Mbit/s

95th percentile per-packet one-way delay: 35.626 ms

Loss rate: 0.23%

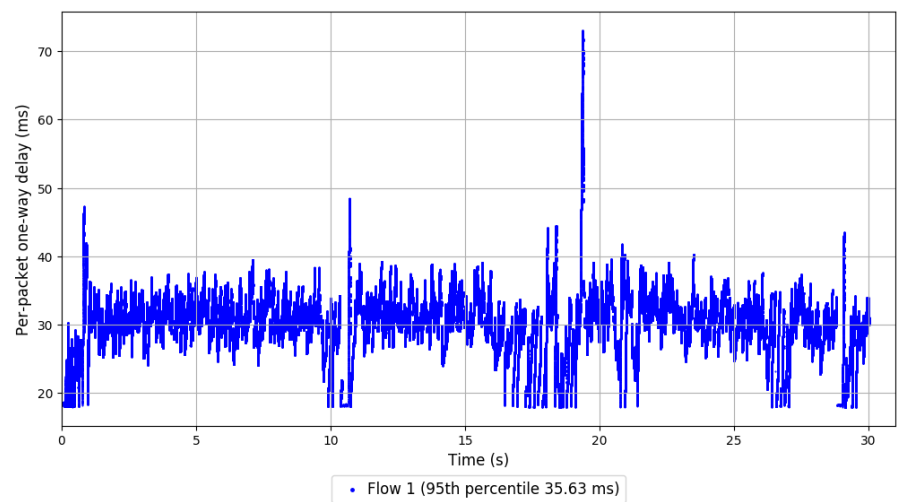
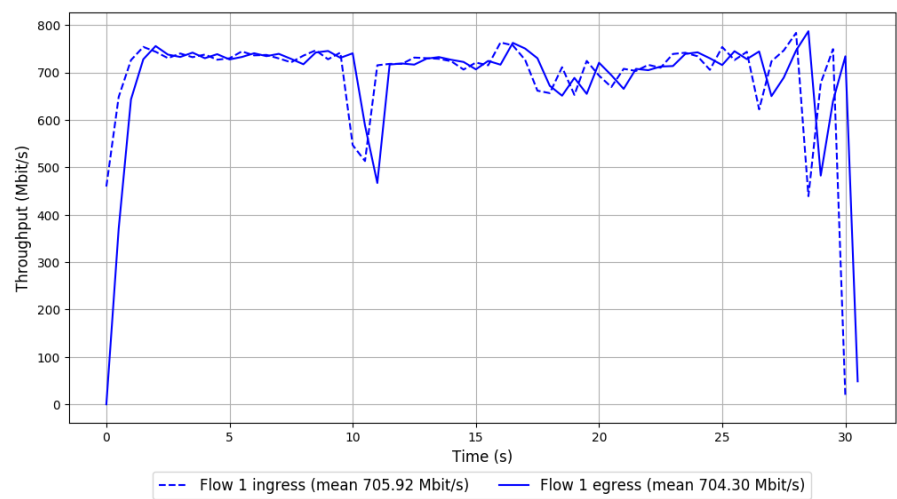
-- Flow 1:

Average throughput: 704.30 Mbit/s

95th percentile per-packet one-way delay: 35.626 ms

Loss rate: 0.23%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-03 13:25:17

End at: 2018-07-03 13:25:47

Local clock offset: 0.763 ms

Remote clock offset: 3.565 ms

Below is generated by plot.py at 2018-07-03 15:01:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 707.07 Mbit/s

95th percentile per-packet one-way delay: 34.064 ms

Loss rate: 0.37%

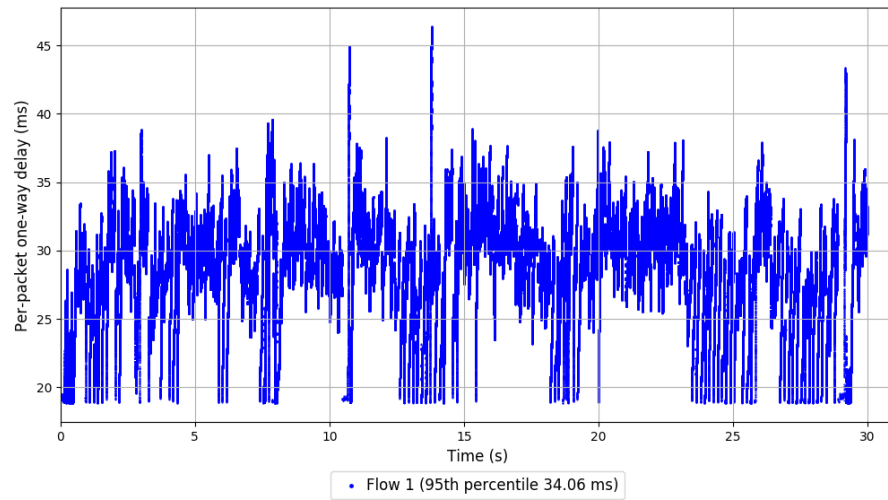
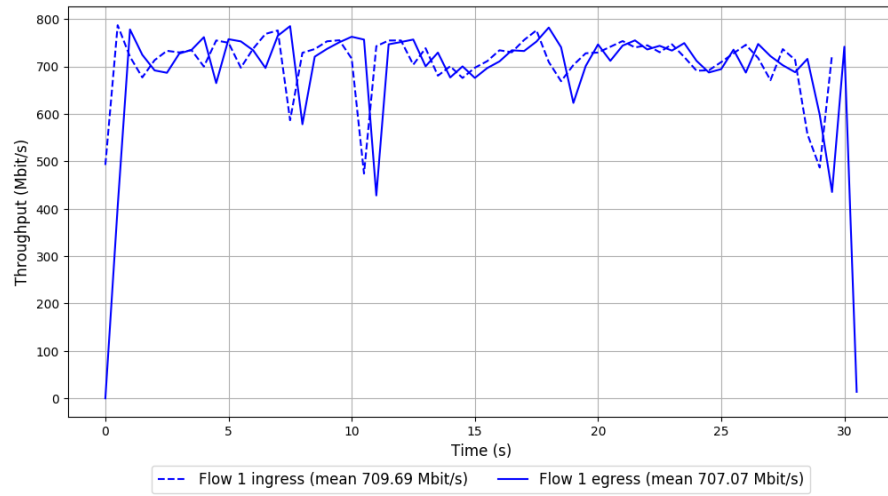
-- Flow 1:

Average throughput: 707.07 Mbit/s

95th percentile per-packet one-way delay: 34.064 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-03 13:50:58

End at: 2018-07-03 13:51:28

Local clock offset: 0.558 ms

Remote clock offset: 1.443 ms

Below is generated by plot.py at 2018-07-03 15:09:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 706.21 Mbit/s

95th percentile per-packet one-way delay: 35.551 ms

Loss rate: 0.21%

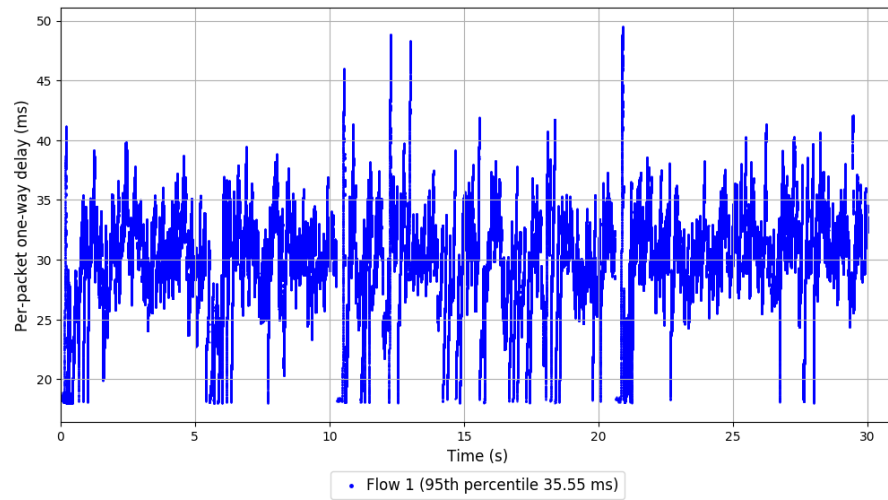
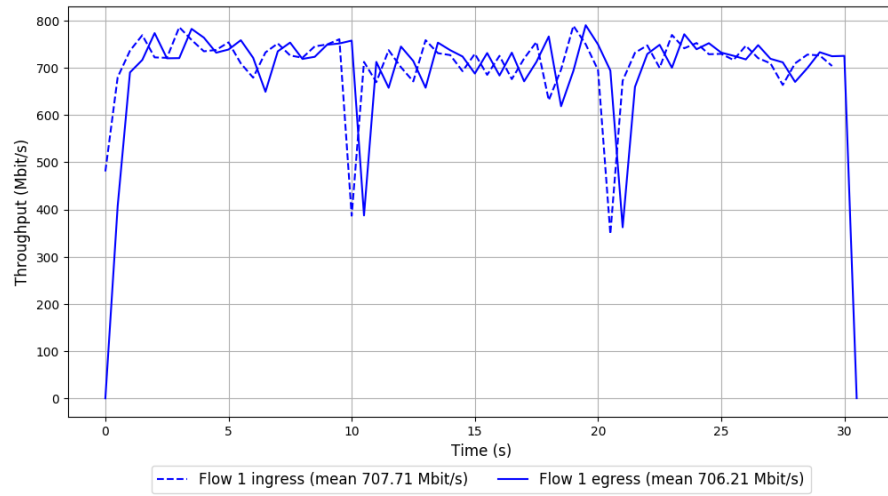
-- Flow 1:

Average throughput: 706.21 Mbit/s

95th percentile per-packet one-way delay: 35.551 ms

Loss rate: 0.21%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-03 14:16:42

End at: 2018-07-03 14:17:12

Local clock offset: 0.672 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-07-03 15:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 724.88 Mbit/s

95th percentile per-packet one-way delay: 33.696 ms

Loss rate: 0.37%

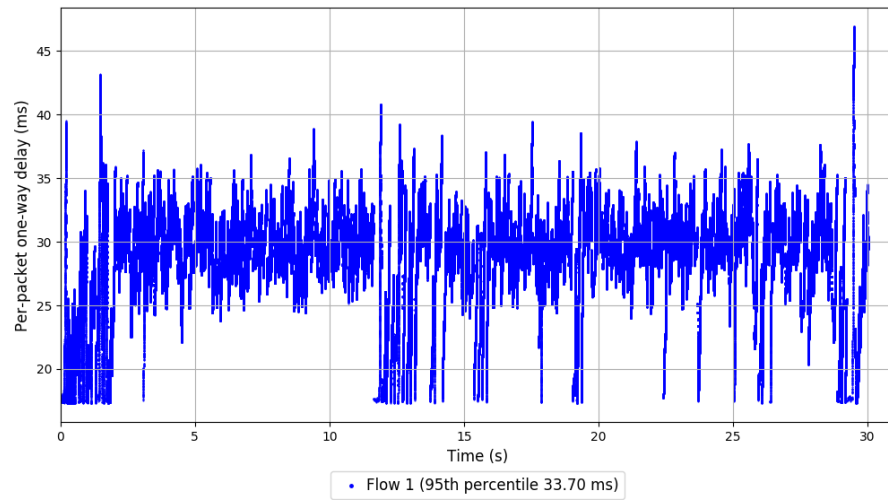
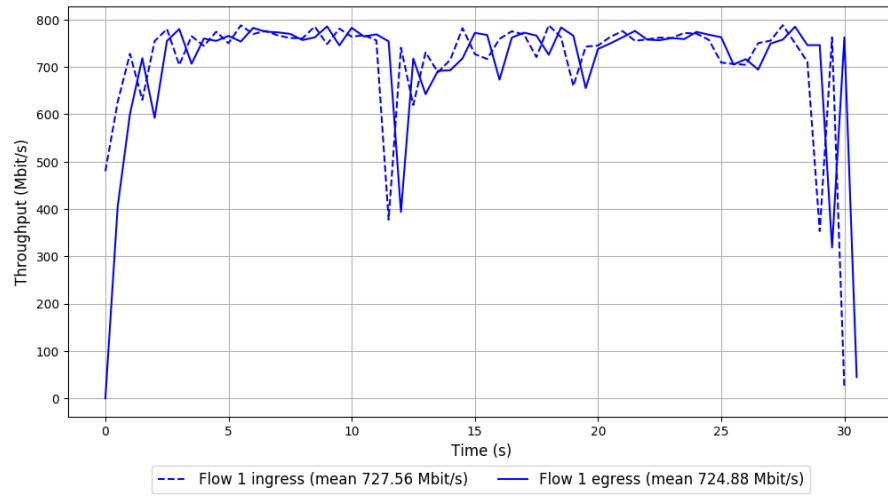
-- Flow 1:

Average throughput: 724.88 Mbit/s

95th percentile per-packet one-way delay: 33.696 ms

Loss rate: 0.37%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-03 10:38:55

End at: 2018-07-03 10:39:25

Local clock offset: 4.451 ms

Remote clock offset: 3.239 ms

Below is generated by plot.py at 2018-07-03 15:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.09 Mbit/s

95th percentile per-packet one-way delay: 21.592 ms

Loss rate: 0.00%

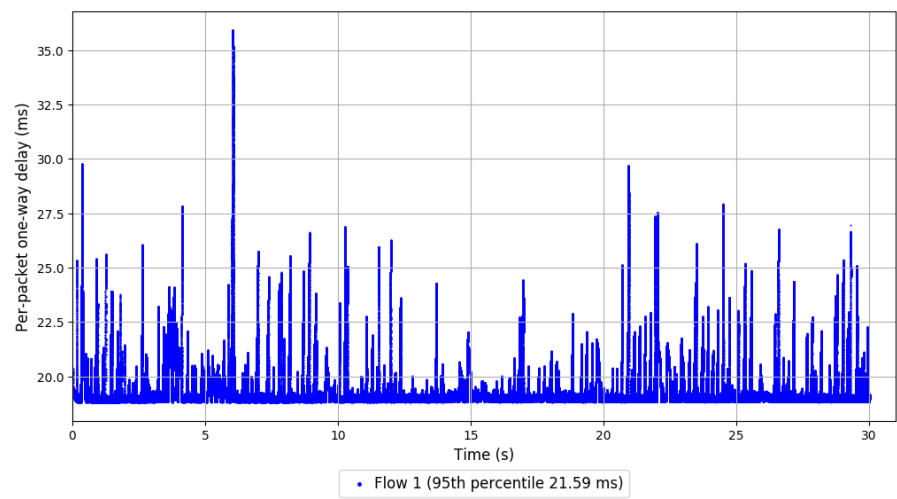
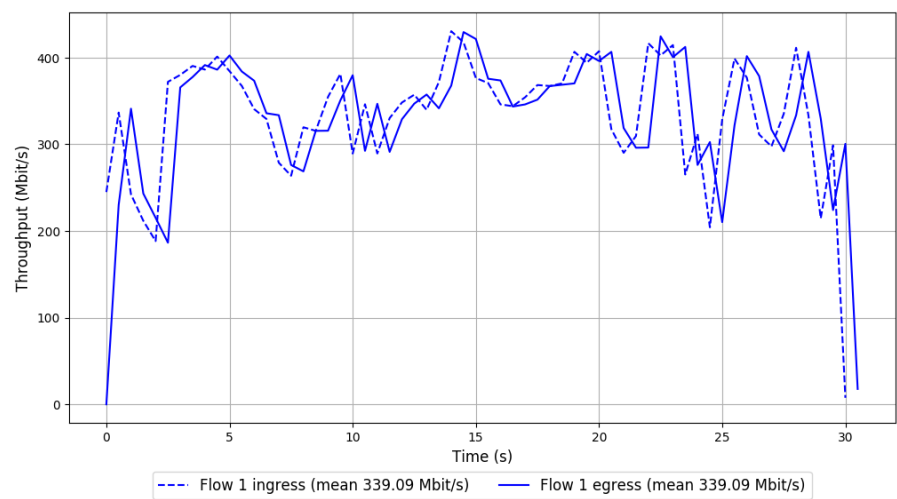
-- Flow 1:

Average throughput: 339.09 Mbit/s

95th percentile per-packet one-way delay: 21.592 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-03 11:04:46

End at: 2018-07-03 11:05:16

Local clock offset: 5.496 ms

Remote clock offset: 3.192 ms

Below is generated by plot.py at 2018-07-03 15:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.56 Mbit/s

95th percentile per-packet one-way delay: 20.543 ms

Loss rate: 0.00%

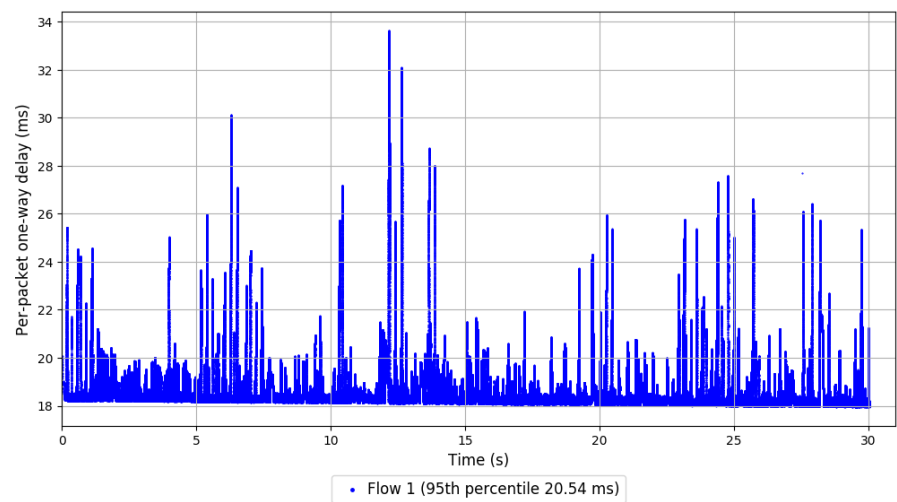
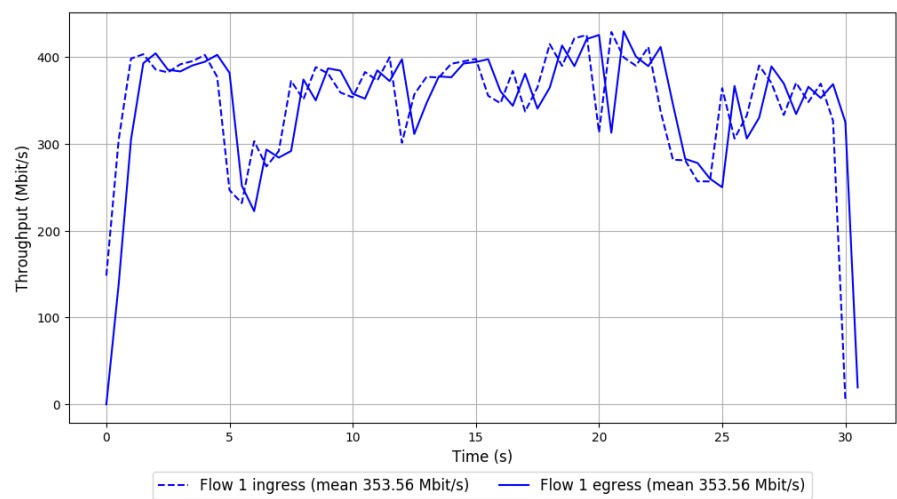
-- Flow 1:

Average throughput: 353.56 Mbit/s

95th percentile per-packet one-way delay: 20.543 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

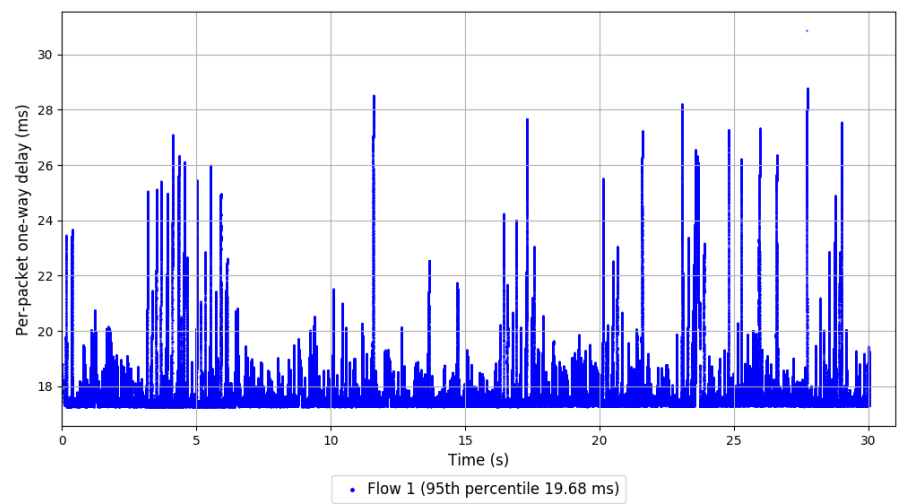
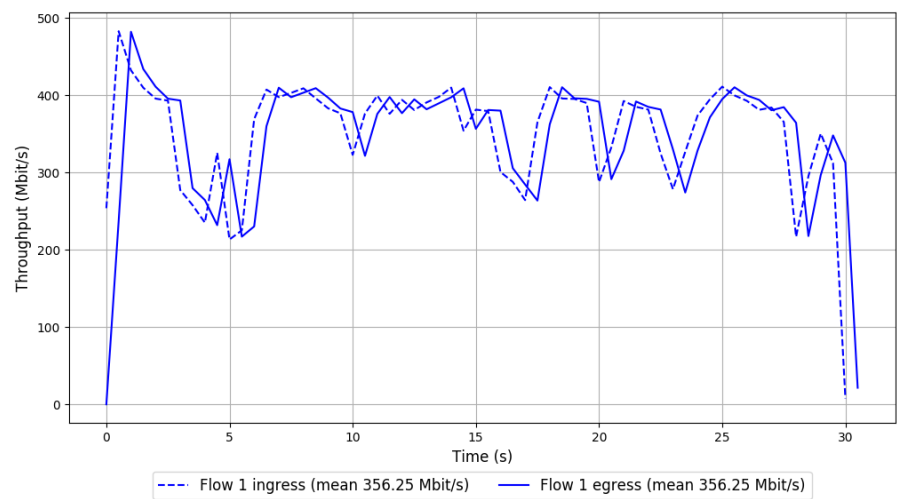


Run 3: Statistics of Copa

Start at: 2018-07-03 11:30:34
End at: 2018-07-03 11:31:04
Local clock offset: 1.157 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-07-03 15:09:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 356.25 Mbit/s
95th percentile per-packet one-way delay: 19.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 356.25 Mbit/s
95th percentile per-packet one-way delay: 19.676 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

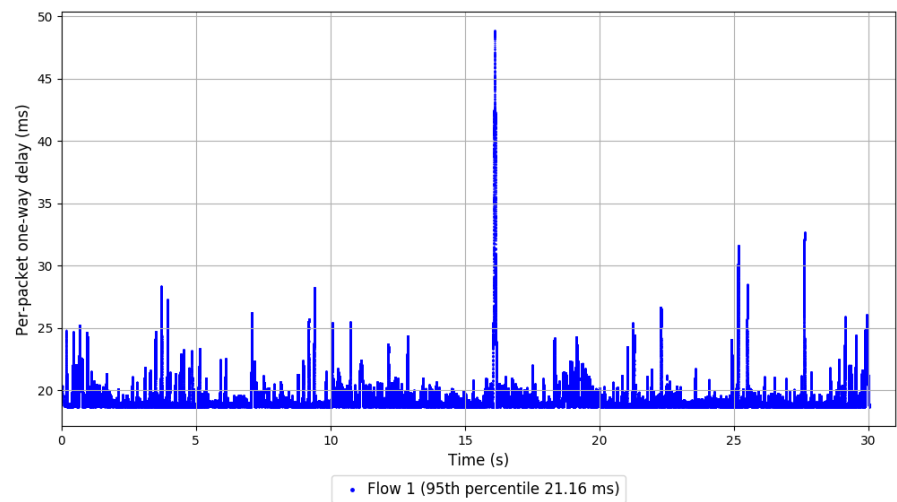
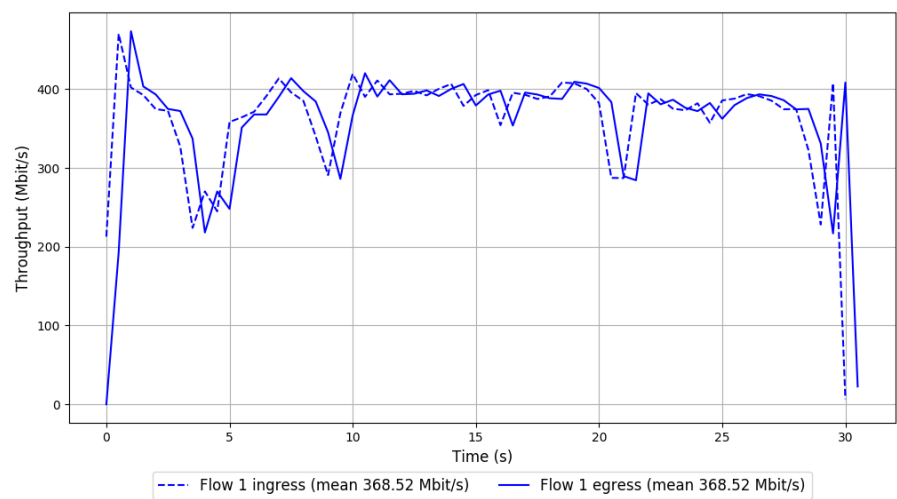


Run 4: Statistics of Copa

Start at: 2018-07-03 11:56:28
End at: 2018-07-03 11:56:58
Local clock offset: 0.426 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-07-03 15:09:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 368.52 Mbit/s
95th percentile per-packet one-way delay: 21.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 368.52 Mbit/s
95th percentile per-packet one-way delay: 21.157 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

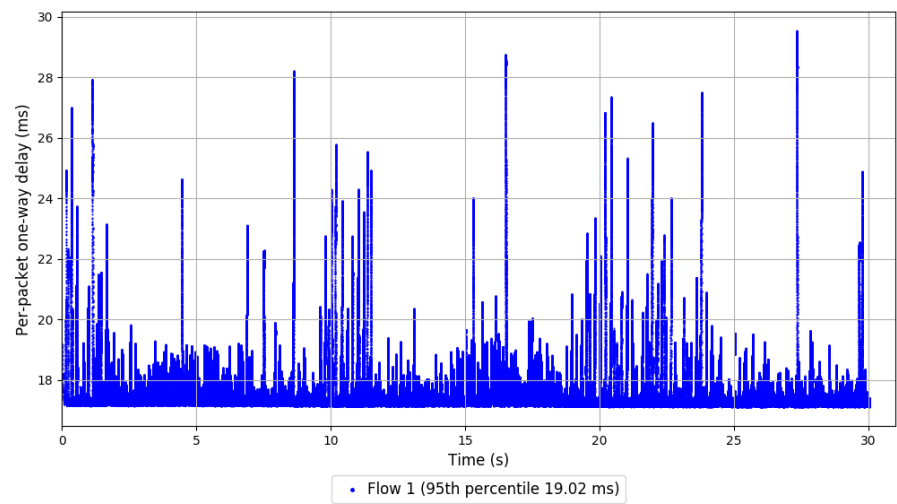
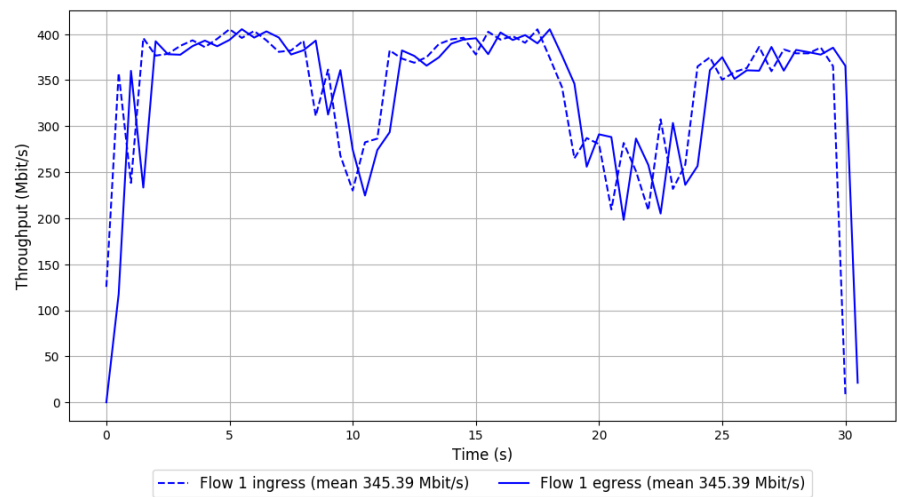


Run 5: Statistics of Copa

Start at: 2018-07-03 12:22:10
End at: 2018-07-03 12:22:40
Local clock offset: -2.67 ms
Remote clock offset: -0.231 ms

Below is generated by plot.py at 2018-07-03 15:09:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 345.39 Mbit/s
95th percentile per-packet one-way delay: 19.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 345.39 Mbit/s
95th percentile per-packet one-way delay: 19.016 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

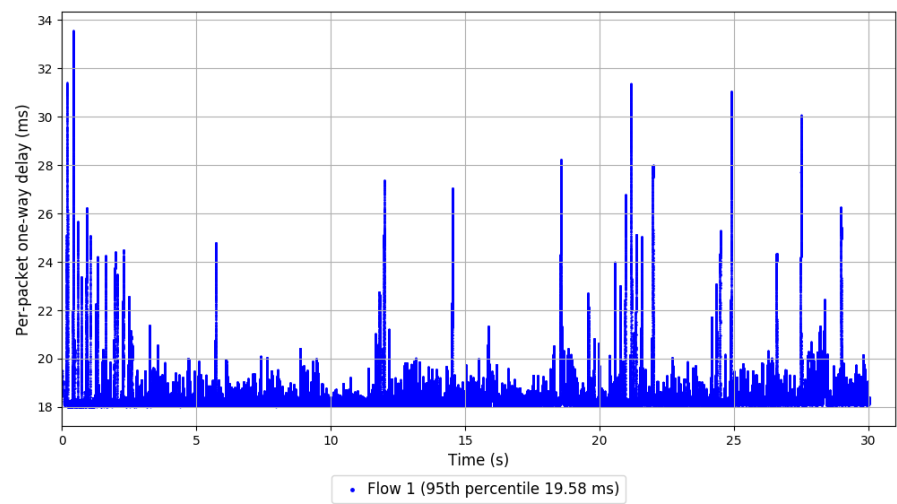
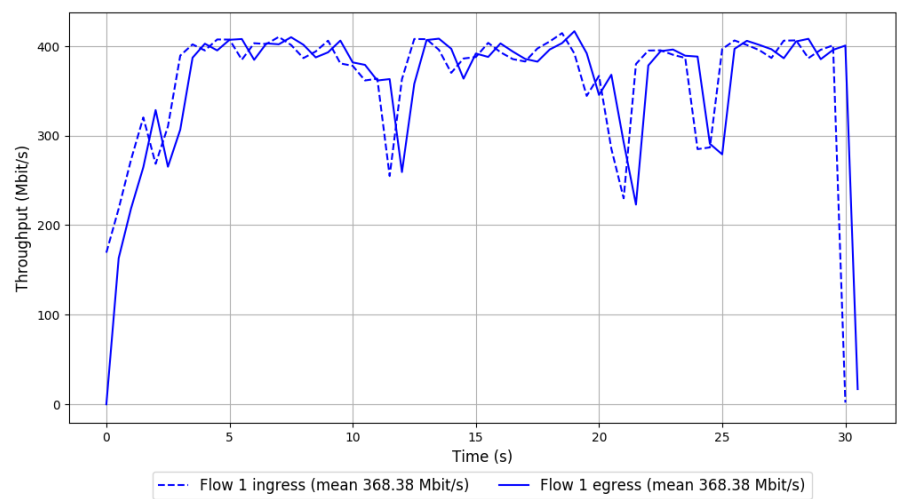


Run 6: Statistics of Copa

Start at: 2018-07-03 12:47:59
End at: 2018-07-03 12:48:29
Local clock offset: 0.064 ms
Remote clock offset: -0.444 ms

Below is generated by plot.py at 2018-07-03 15:09:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 368.38 Mbit/s
95th percentile per-packet one-way delay: 19.584 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 368.38 Mbit/s
95th percentile per-packet one-way delay: 19.584 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-03 13:13:44

End at: 2018-07-03 13:14:14

Local clock offset: 0.798 ms

Remote clock offset: 3.0 ms

Below is generated by plot.py at 2018-07-03 15:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.63 Mbit/s

95th percentile per-packet one-way delay: 20.703 ms

Loss rate: 0.01%

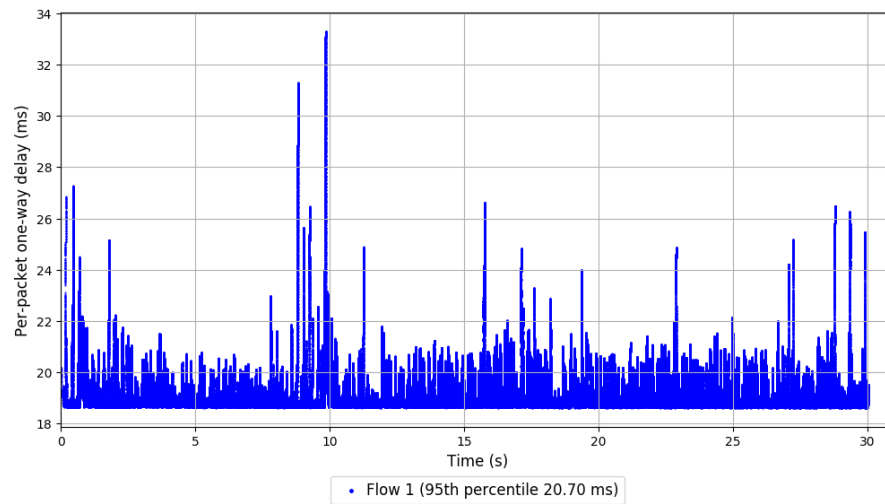
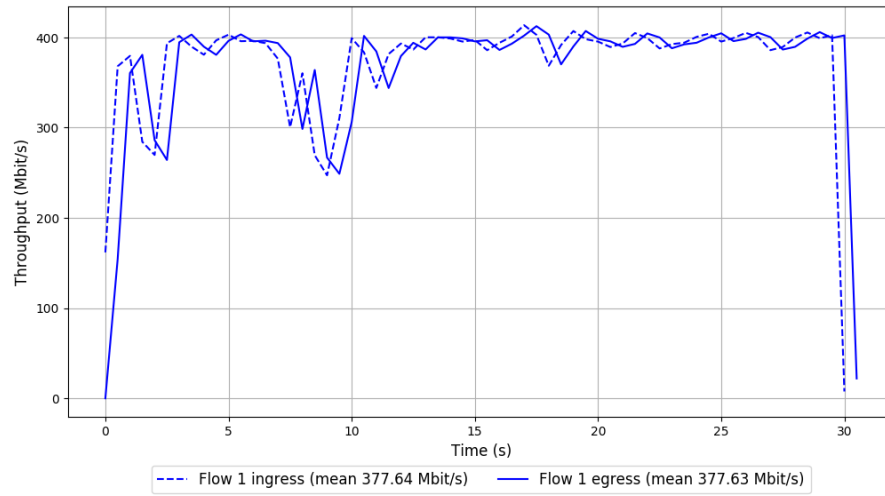
-- Flow 1:

Average throughput: 377.63 Mbit/s

95th percentile per-packet one-way delay: 20.703 ms

Loss rate: 0.01%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-03 13:39:30

End at: 2018-07-03 13:40:00

Local clock offset: 0.608 ms

Remote clock offset: 1.829 ms

Below is generated by plot.py at 2018-07-03 15:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.23 Mbit/s

95th percentile per-packet one-way delay: 20.993 ms

Loss rate: 0.00%

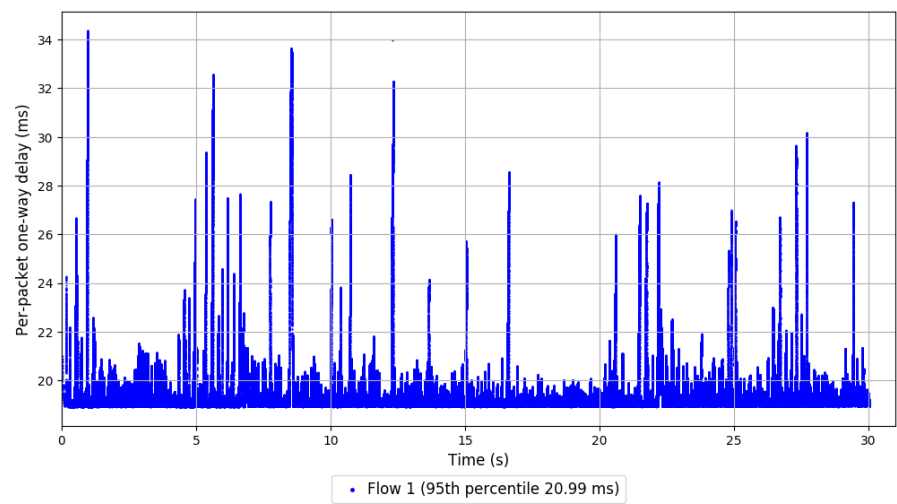
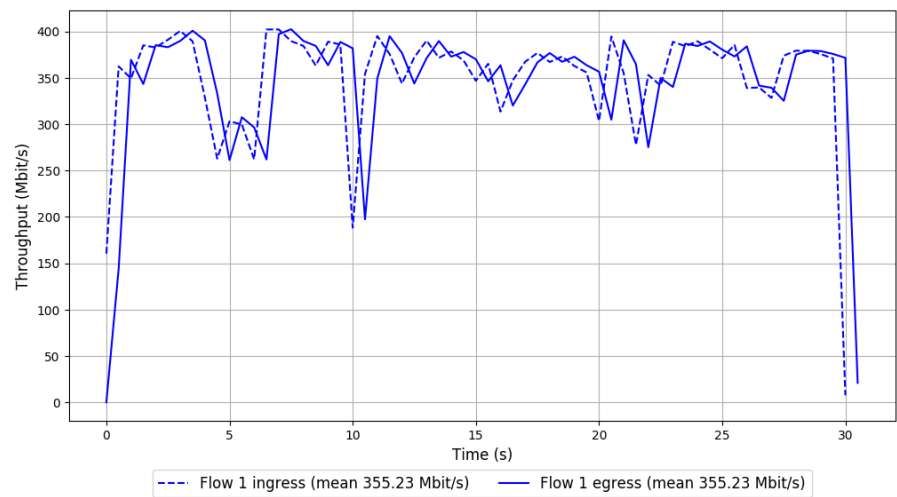
-- Flow 1:

Average throughput: 355.23 Mbit/s

95th percentile per-packet one-way delay: 20.993 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-03 14:05:09

End at: 2018-07-03 14:05:39

Local clock offset: 0.586 ms

Remote clock offset: 0.688 ms

Below is generated by plot.py at 2018-07-03 15:17:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.00 Mbit/s

95th percentile per-packet one-way delay: 19.242 ms

Loss rate: 0.00%

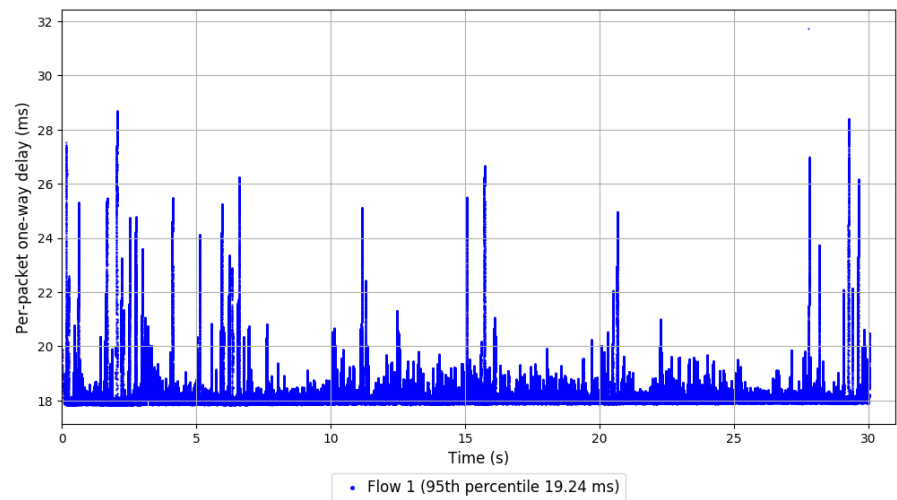
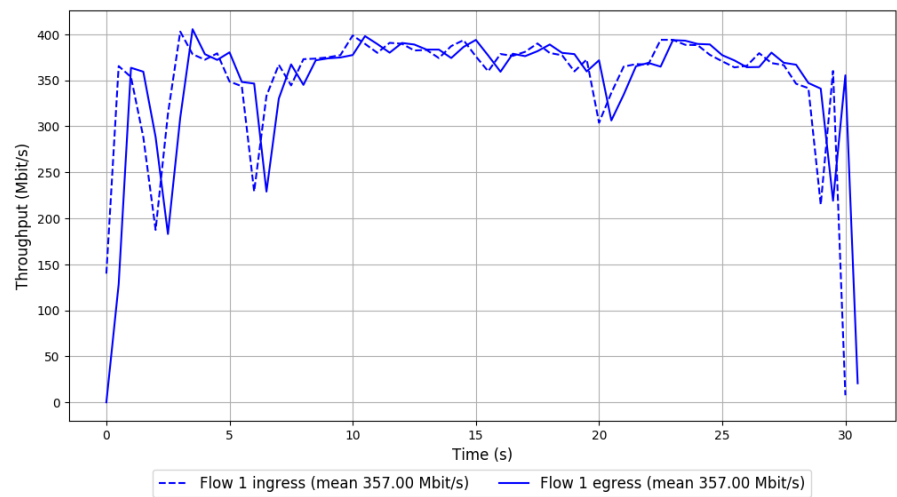
-- Flow 1:

Average throughput: 357.00 Mbit/s

95th percentile per-packet one-way delay: 19.242 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link

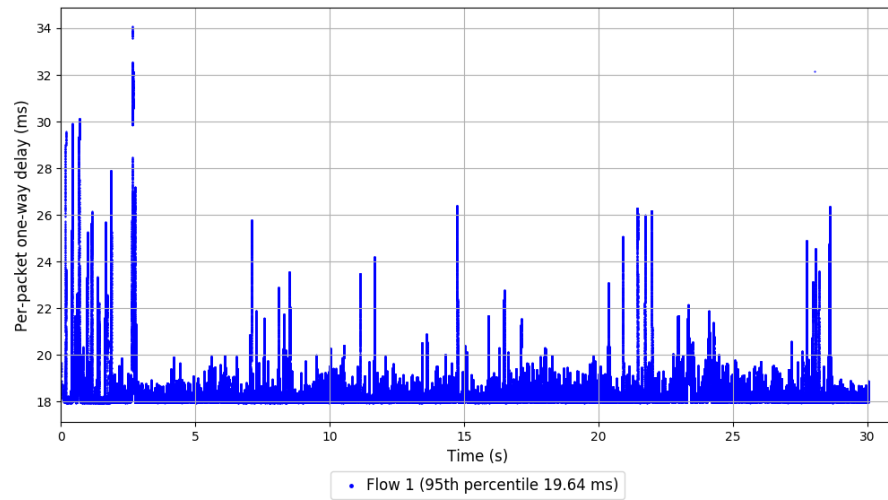
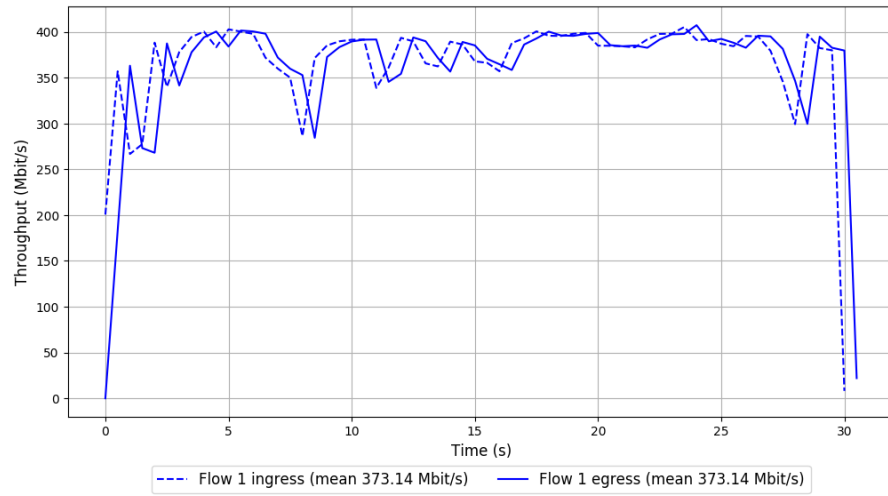


Run 10: Statistics of Copa

Start at: 2018-07-03 14:31:02
End at: 2018-07-03 14:31:32
Local clock offset: 0.777 ms
Remote clock offset: -0.465 ms

Below is generated by plot.py at 2018-07-03 15:17:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 373.14 Mbit/s
95th percentile per-packet one-way delay: 19.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 373.14 Mbit/s
95th percentile per-packet one-way delay: 19.643 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-03 10:31:05

End at: 2018-07-03 10:31:35

Local clock offset: 4.324 ms

Remote clock offset: 3.196 ms

Below is generated by plot.py at 2018-07-03 15:17:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.45 Mbit/s

95th percentile per-packet one-way delay: 22.919 ms

Loss rate: 0.06%

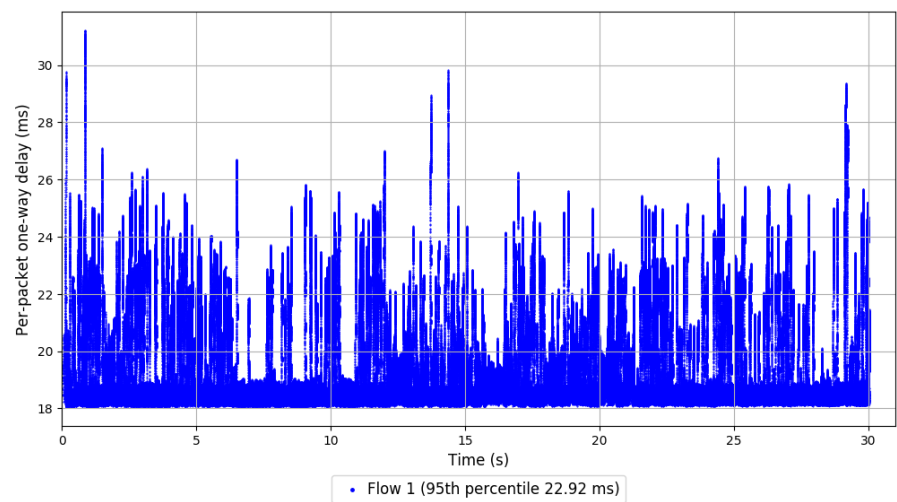
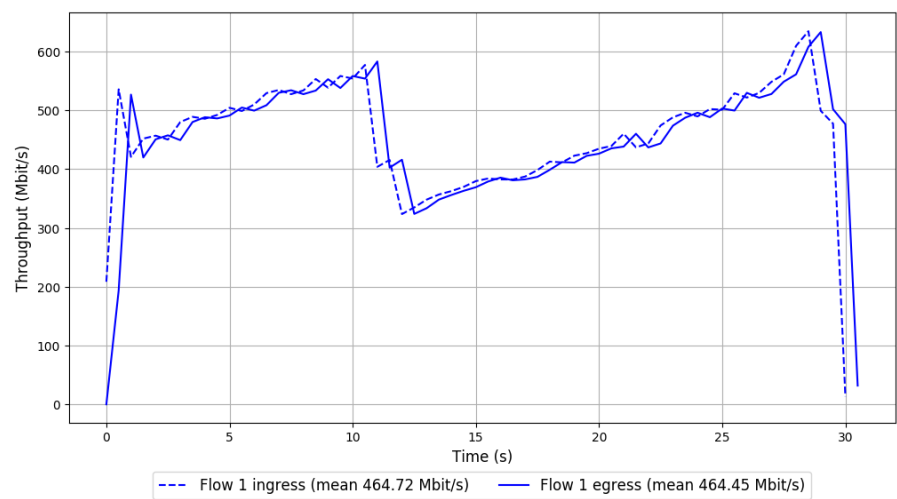
-- Flow 1:

Average throughput: 464.45 Mbit/s

95th percentile per-packet one-way delay: 22.919 ms

Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-03 10:56:49

End at: 2018-07-03 10:57:19

Local clock offset: 5.521 ms

Remote clock offset: 3.11 ms

Below is generated by plot.py at 2018-07-03 15:17:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.17 Mbit/s

95th percentile per-packet one-way delay: 24.406 ms

Loss rate: 0.04%

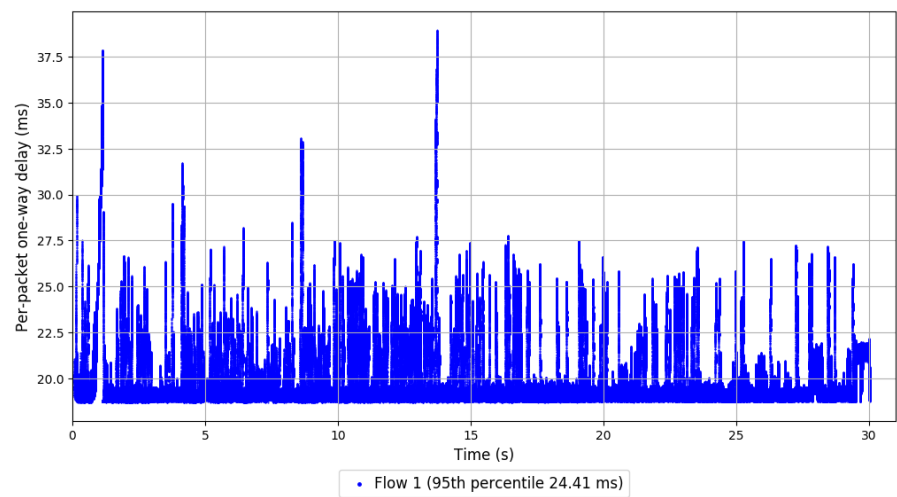
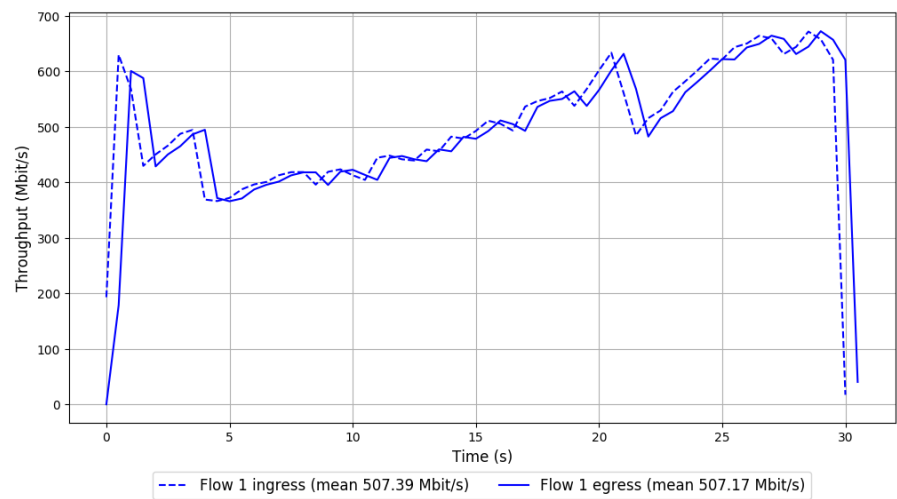
-- Flow 1:

Average throughput: 507.17 Mbit/s

95th percentile per-packet one-way delay: 24.406 ms

Loss rate: 0.04%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-03 11:22:40

End at: 2018-07-03 11:23:10

Local clock offset: 1.329 ms

Remote clock offset: 0.526 ms

Below is generated by plot.py at 2018-07-03 15:17:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.44 Mbit/s

95th percentile per-packet one-way delay: 22.664 ms

Loss rate: 0.03%

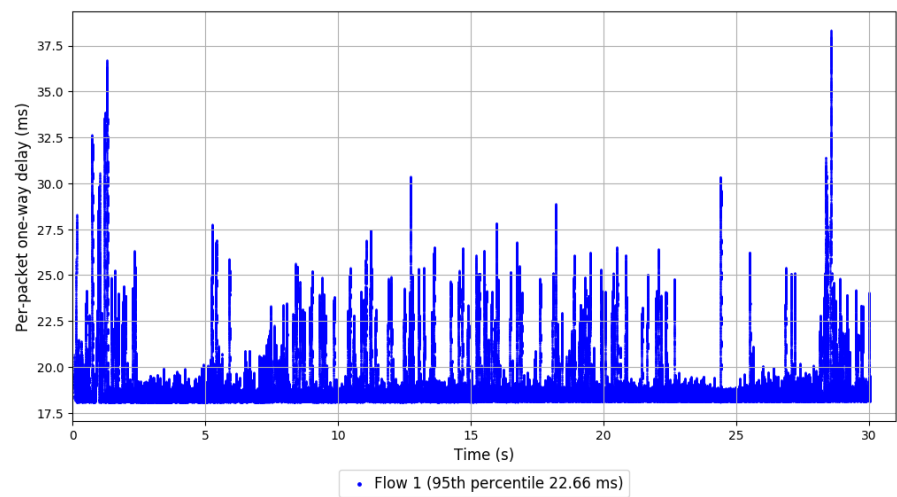
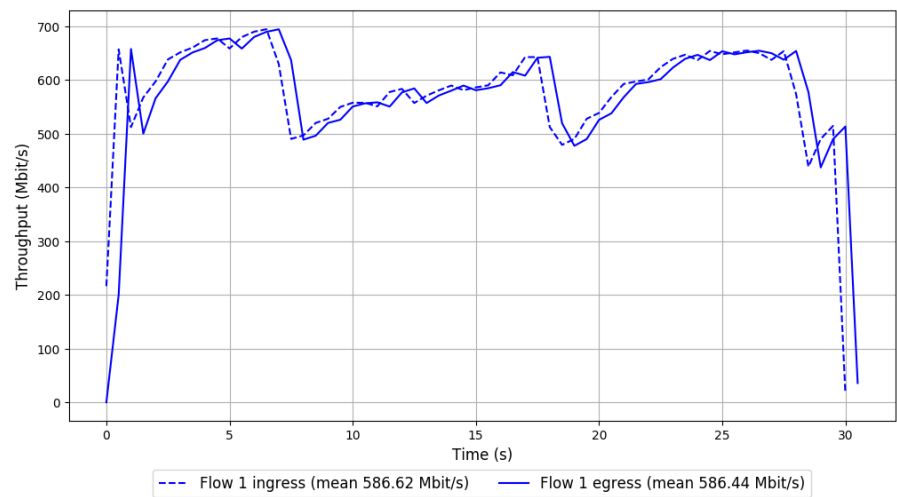
-- Flow 1:

Average throughput: 586.44 Mbit/s

95th percentile per-packet one-way delay: 22.664 ms

Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link

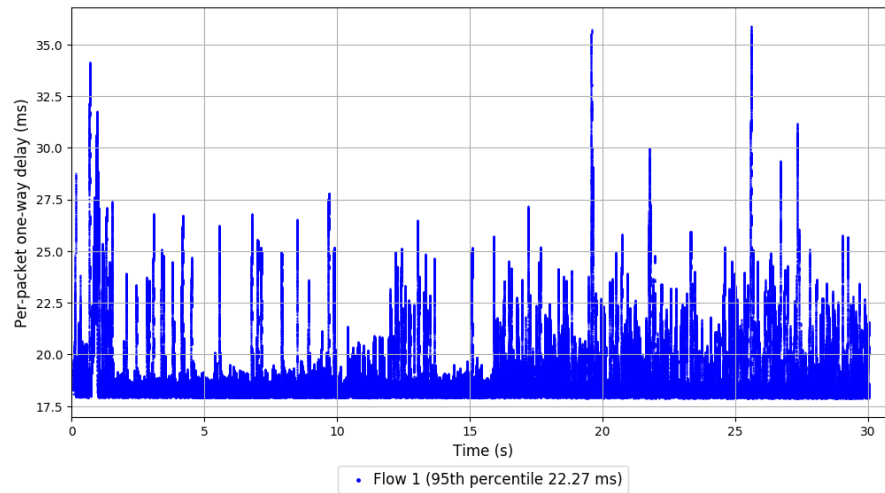
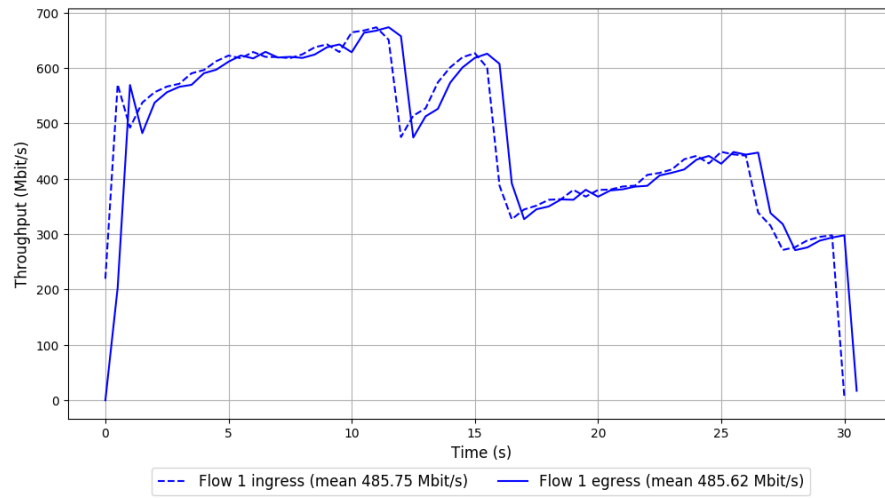


Run 4: Statistics of TCP Cubic

Start at: 2018-07-03 11:48:38
End at: 2018-07-03 11:49:08
Local clock offset: 0.483 ms
Remote clock offset: -0.643 ms

Below is generated by plot.py at 2018-07-03 15:17:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 485.62 Mbit/s
95th percentile per-packet one-way delay: 22.273 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 485.62 Mbit/s
95th percentile per-packet one-way delay: 22.273 ms
Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link

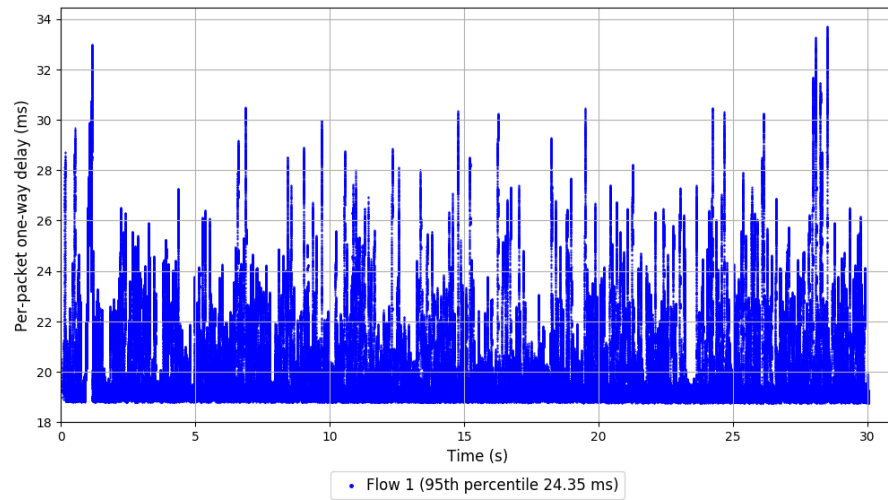
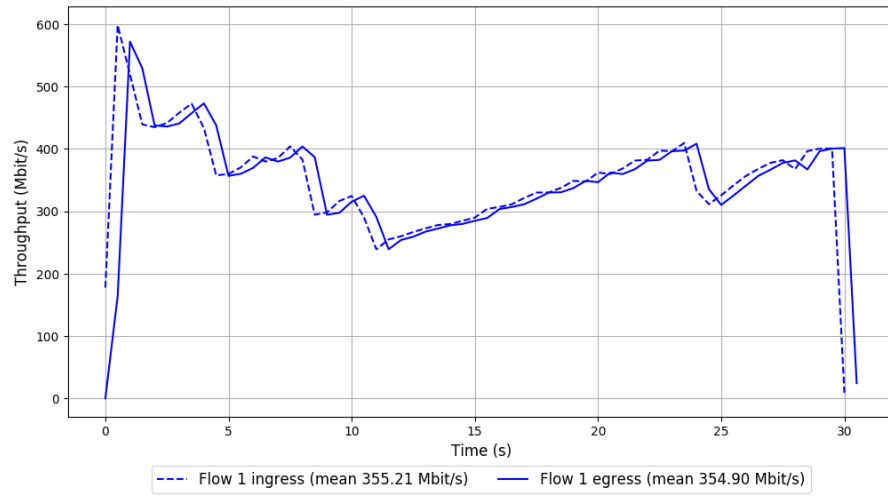


Run 5: Statistics of TCP Cubic

Start at: 2018-07-03 12:14:24
End at: 2018-07-03 12:14:54
Local clock offset: -2.019 ms
Remote clock offset: -0.296 ms

Below is generated by plot.py at 2018-07-03 15:19:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 354.90 Mbit/s
95th percentile per-packet one-way delay: 24.353 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 354.90 Mbit/s
95th percentile per-packet one-way delay: 24.353 ms
Loss rate: 0.09%

Run 5: Report of TCP Cubic — Data Link

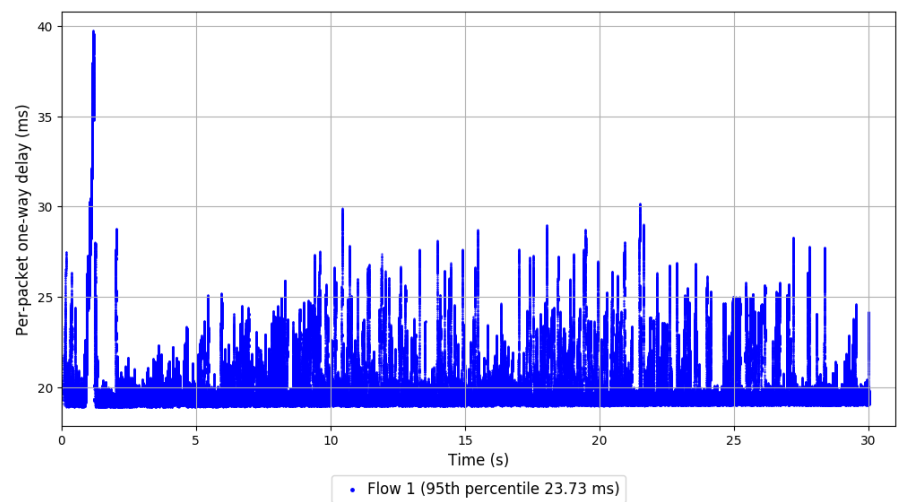
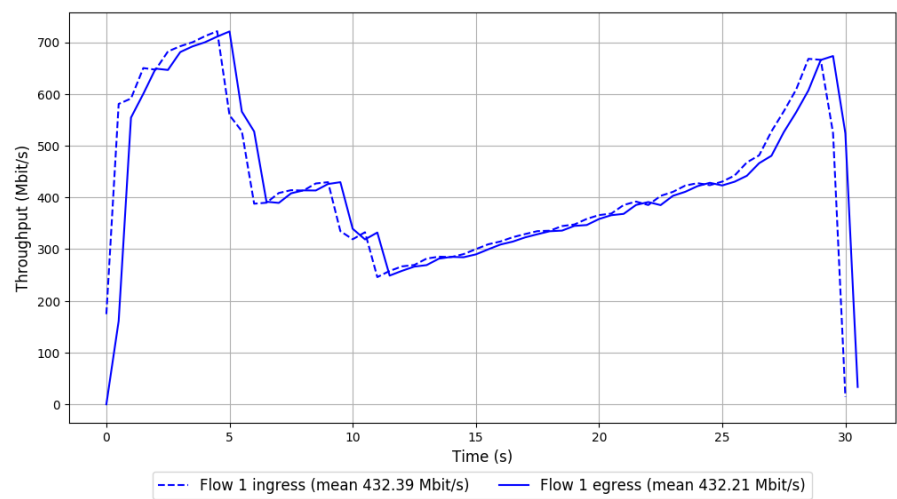


Run 6: Statistics of TCP Cubic

Start at: 2018-07-03 12:40:10
End at: 2018-07-03 12:40:40
Local clock offset: -1.253 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2018-07-03 15:20:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 432.21 Mbit/s
95th percentile per-packet one-way delay: 23.726 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 432.21 Mbit/s
95th percentile per-packet one-way delay: 23.726 ms
Loss rate: 0.04%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-03 13:05:54

End at: 2018-07-03 13:06:24

Local clock offset: 0.842 ms

Remote clock offset: 2.317 ms

Below is generated by plot.py at 2018-07-03 15:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.00 Mbit/s

95th percentile per-packet one-way delay: 22.657 ms

Loss rate: 0.04%

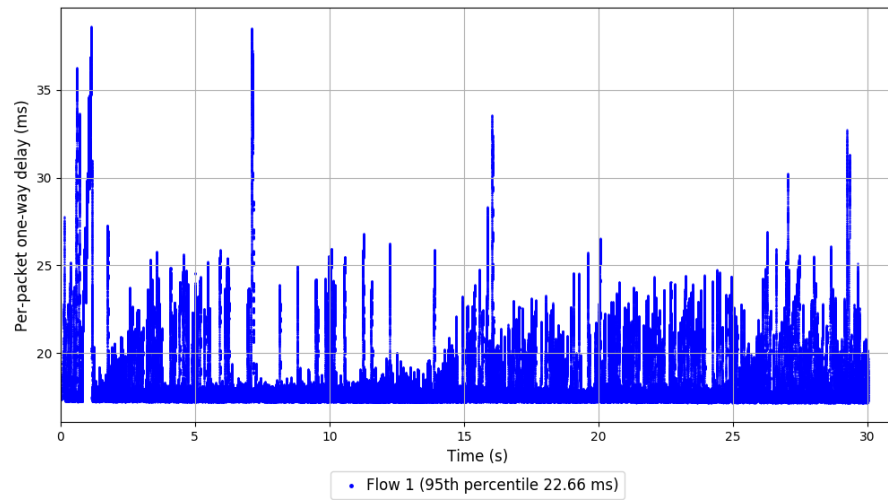
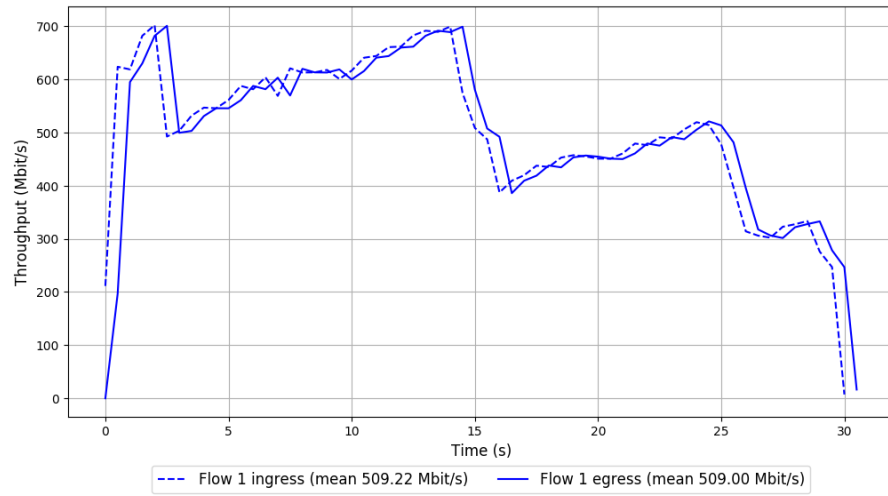
-- Flow 1:

Average throughput: 509.00 Mbit/s

95th percentile per-packet one-way delay: 22.657 ms

Loss rate: 0.04%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-03 13:31:43

End at: 2018-07-03 13:32:13

Local clock offset: 0.902 ms

Remote clock offset: 2.662 ms

Below is generated by plot.py at 2018-07-03 15:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.08 Mbit/s

95th percentile per-packet one-way delay: 23.979 ms

Loss rate: 0.07%

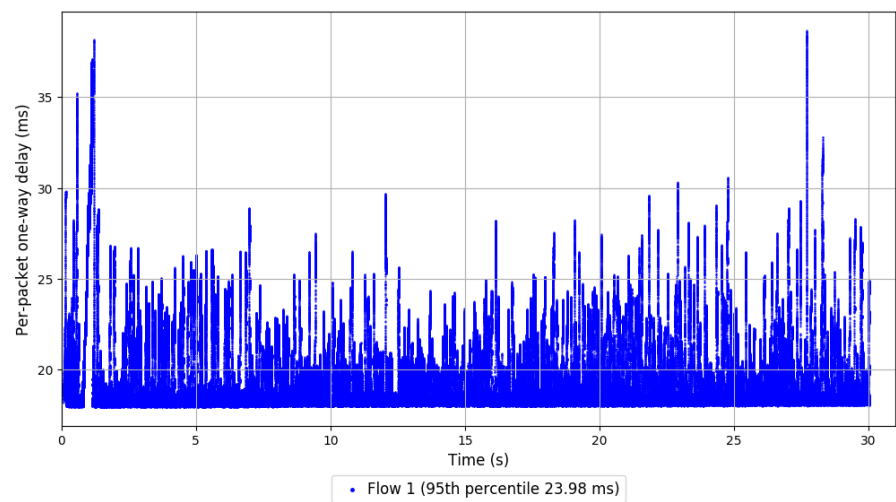
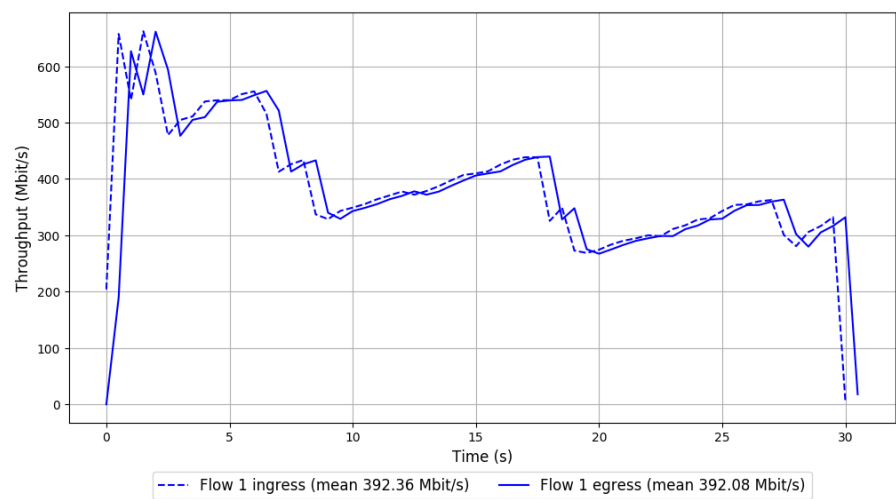
-- Flow 1:

Average throughput: 392.08 Mbit/s

95th percentile per-packet one-way delay: 23.979 ms

Loss rate: 0.07%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-03 13:57:19

End at: 2018-07-03 13:57:49

Local clock offset: 0.557 ms

Remote clock offset: 1.259 ms

Below is generated by plot.py at 2018-07-03 15:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.74 Mbit/s

95th percentile per-packet one-way delay: 22.536 ms

Loss rate: 0.06%

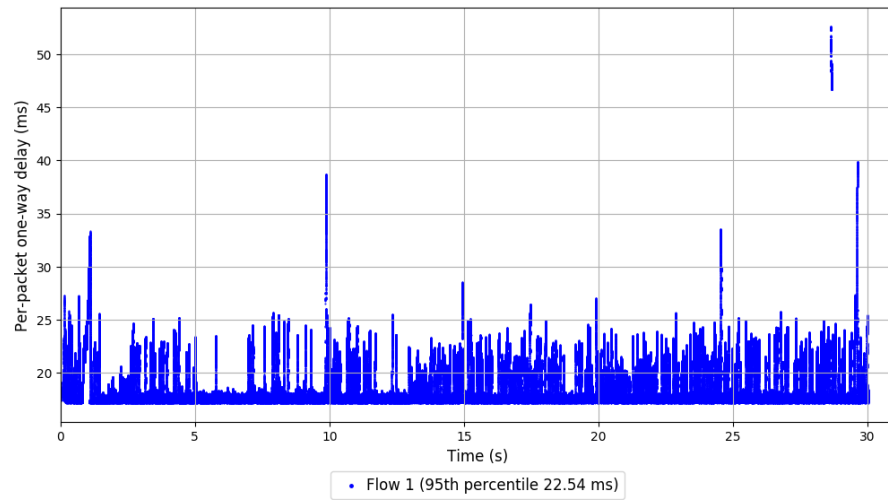
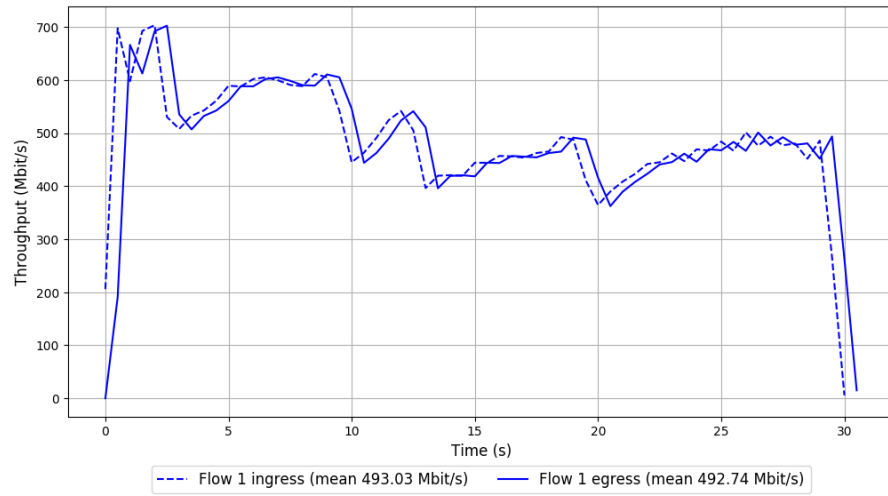
-- Flow 1:

Average throughput: 492.74 Mbit/s

95th percentile per-packet one-way delay: 22.536 ms

Loss rate: 0.06%

Run 9: Report of TCP Cubic — Data Link

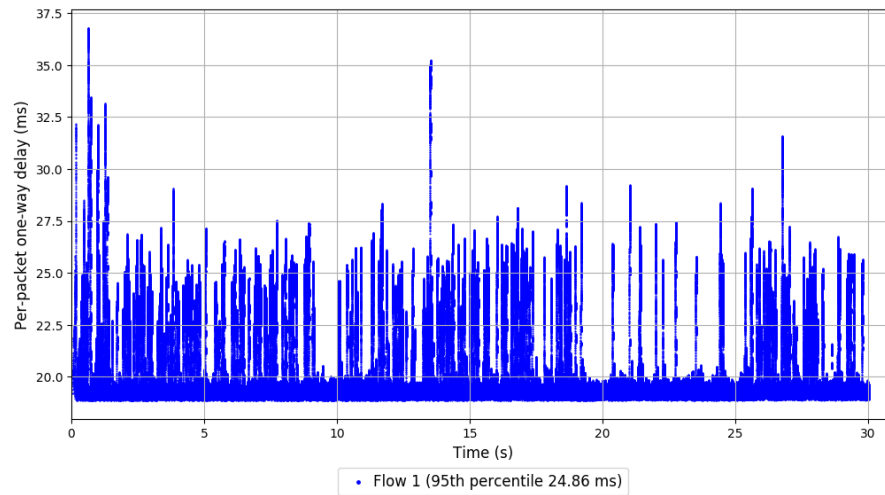
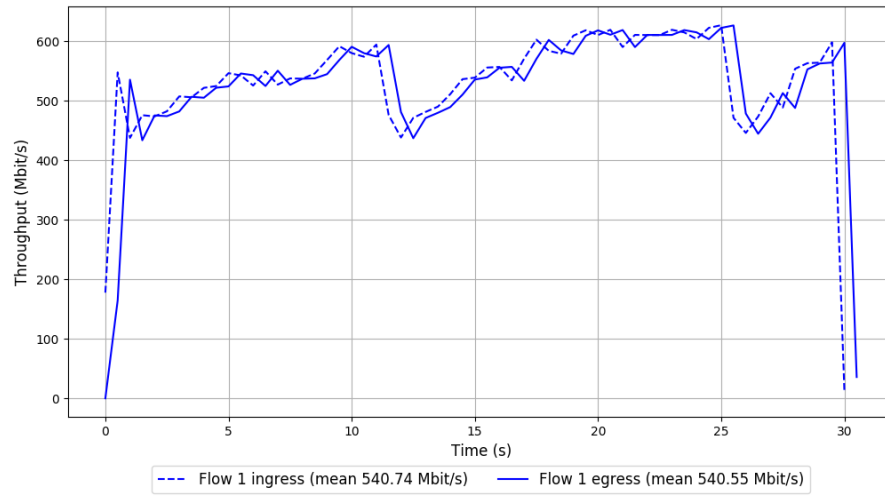


Run 10: Statistics of TCP Cubic

Start at: 2018-07-03 14:23:11
End at: 2018-07-03 14:23:41
Local clock offset: 0.638 ms
Remote clock offset: -0.337 ms

Below is generated by plot.py at 2018-07-03 15:23:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 540.55 Mbit/s
95th percentile per-packet one-way delay: 24.864 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 540.55 Mbit/s
95th percentile per-packet one-way delay: 24.864 ms
Loss rate: 0.04%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-03 10:32:37

End at: 2018-07-03 10:33:07

Local clock offset: 4.551 ms

Remote clock offset: 3.291 ms

Below is generated by plot.py at 2018-07-03 15:29:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 845.74 Mbit/s

95th percentile per-packet one-way delay: 101.041 ms

Loss rate: 2.90%

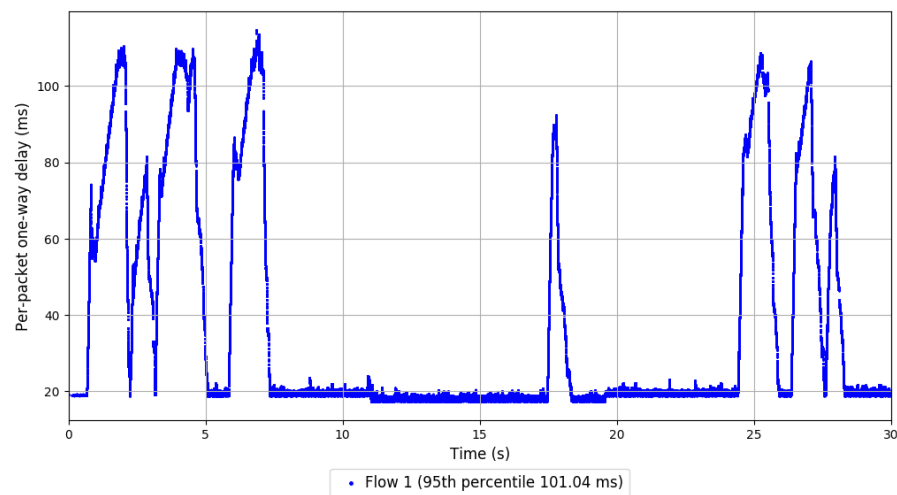
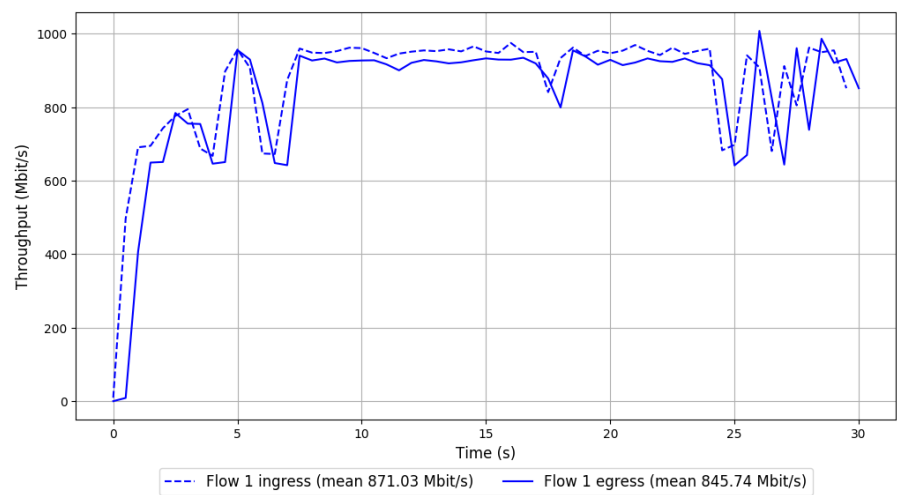
-- Flow 1:

Average throughput: 845.74 Mbit/s

95th percentile per-packet one-way delay: 101.041 ms

Loss rate: 2.90%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-03 10:58:23

End at: 2018-07-03 10:58:53

Local clock offset: 5.642 ms

Remote clock offset: 3.08 ms

Below is generated by plot.py at 2018-07-03 15:30:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 839.35 Mbit/s

95th percentile per-packet one-way delay: 99.485 ms

Loss rate: 3.83%

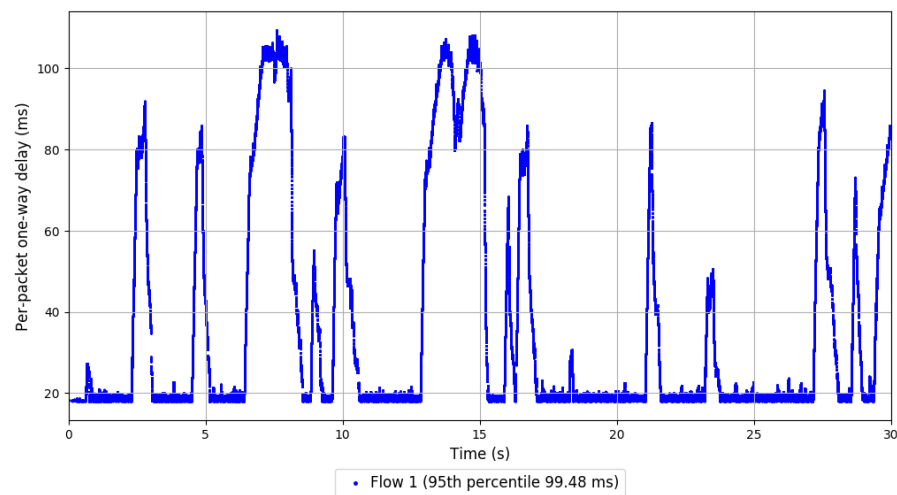
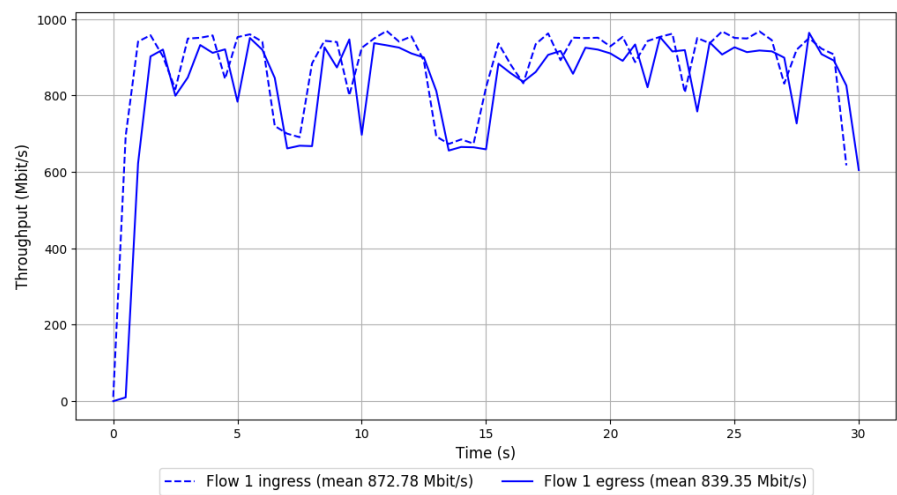
-- Flow 1:

Average throughput: 839.35 Mbit/s

95th percentile per-packet one-way delay: 99.485 ms

Loss rate: 3.83%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-03 11:24:16

End at: 2018-07-03 11:24:46

Local clock offset: 1.287 ms

Remote clock offset: 0.306 ms

Below is generated by plot.py at 2018-07-03 15:31:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 794.33 Mbit/s

95th percentile per-packet one-way delay: 104.114 ms

Loss rate: 3.58%

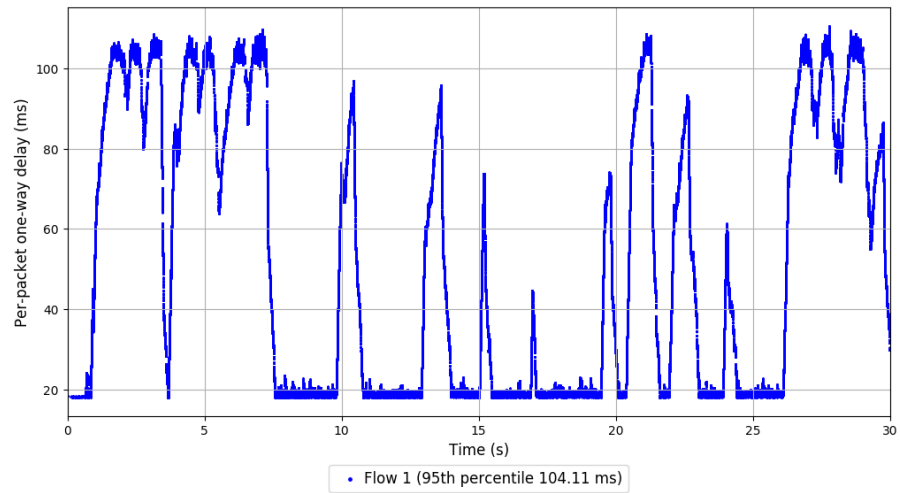
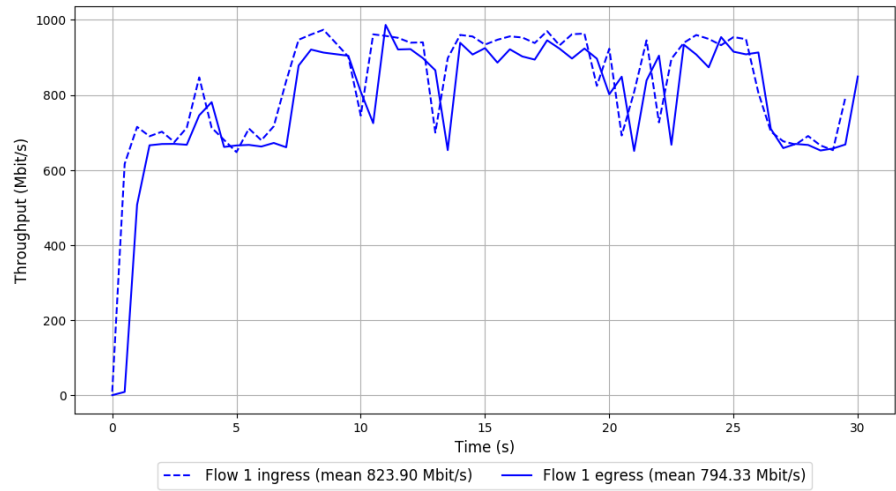
-- Flow 1:

Average throughput: 794.33 Mbit/s

95th percentile per-packet one-way delay: 104.114 ms

Loss rate: 3.58%

Run 3: Report of FillP — Data Link

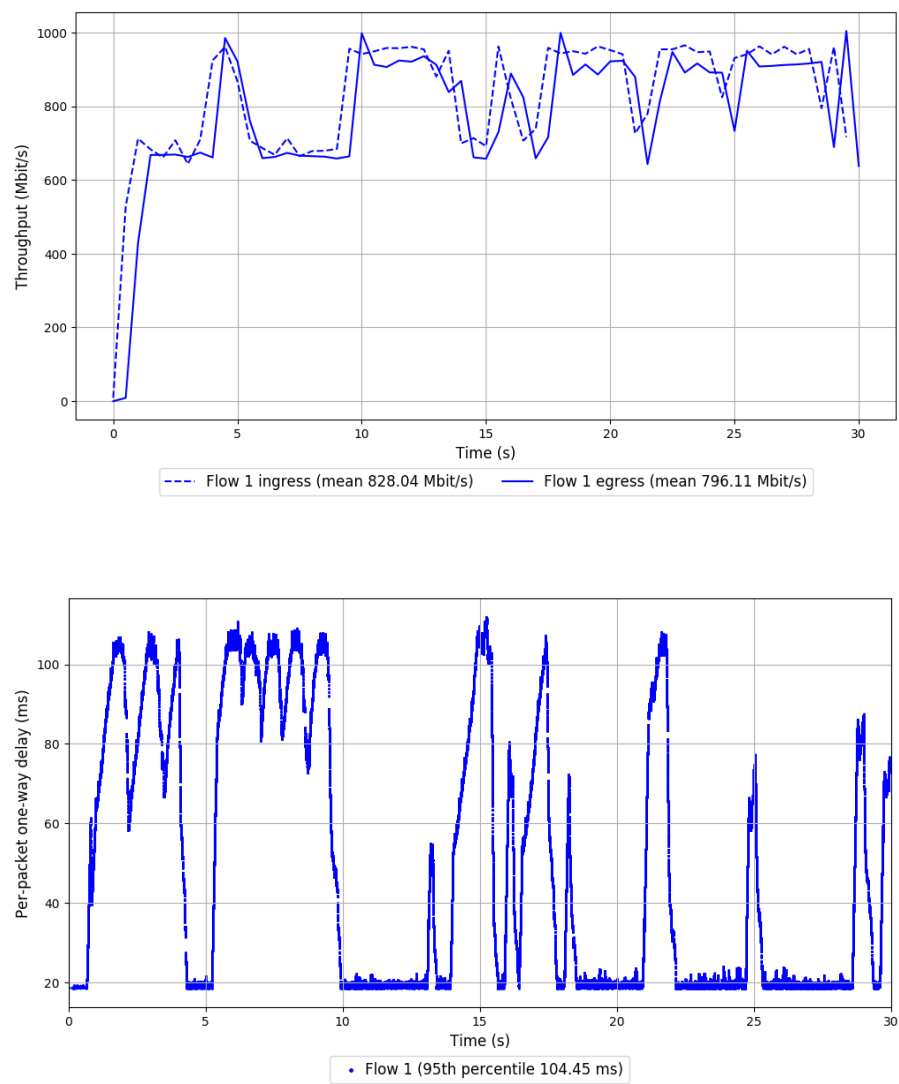


Run 4: Statistics of FillP

Start at: 2018-07-03 11:50:10
End at: 2018-07-03 11:50:40
Local clock offset: 0.471 ms
Remote clock offset: -0.582 ms

Below is generated by plot.py at 2018-07-03 15:32:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 796.11 Mbit/s
95th percentile per-packet one-way delay: 104.448 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 796.11 Mbit/s
95th percentile per-packet one-way delay: 104.448 ms
Loss rate: 3.86%

Run 4: Report of FillP — Data Link

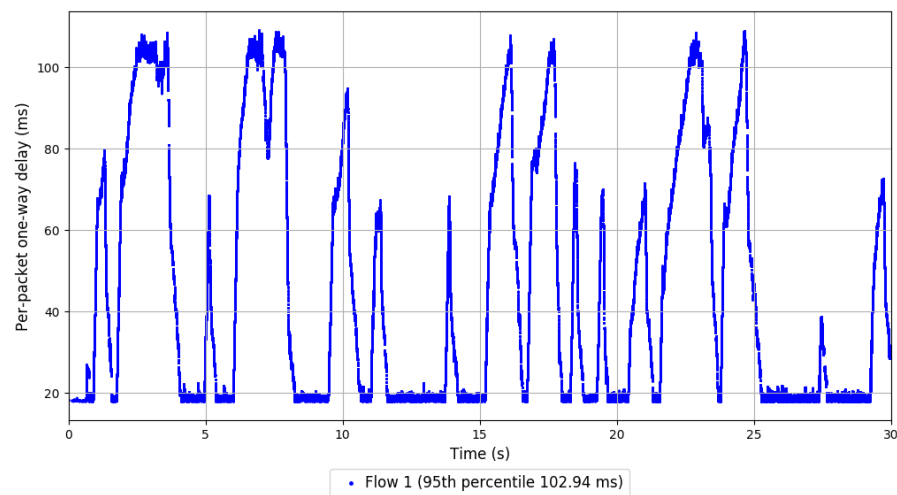
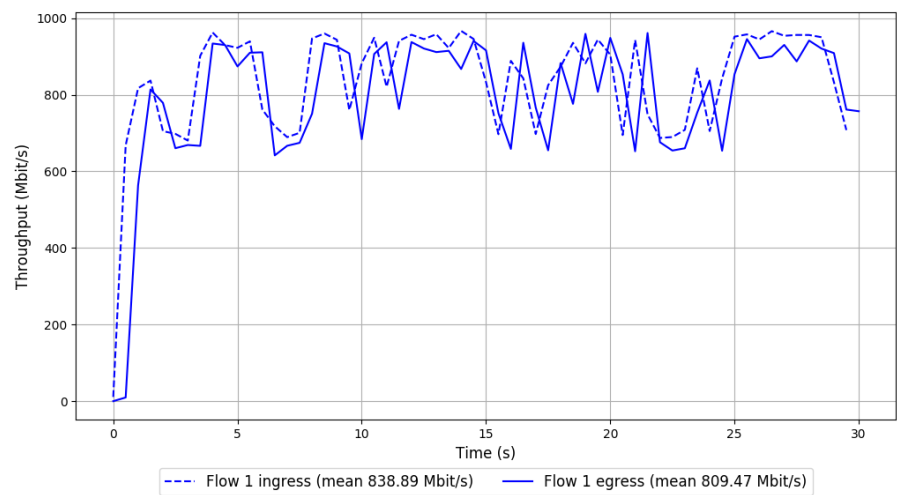


Run 5: Statistics of FillP

Start at: 2018-07-03 12:15:52
End at: 2018-07-03 12:16:22
Local clock offset: -2.219 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2018-07-03 15:33:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 809.47 Mbit/s
95th percentile per-packet one-way delay: 102.942 ms
Loss rate: 3.51%
-- Flow 1:
Average throughput: 809.47 Mbit/s
95th percentile per-packet one-way delay: 102.942 ms
Loss rate: 3.51%

Run 5: Report of FillP — Data Link

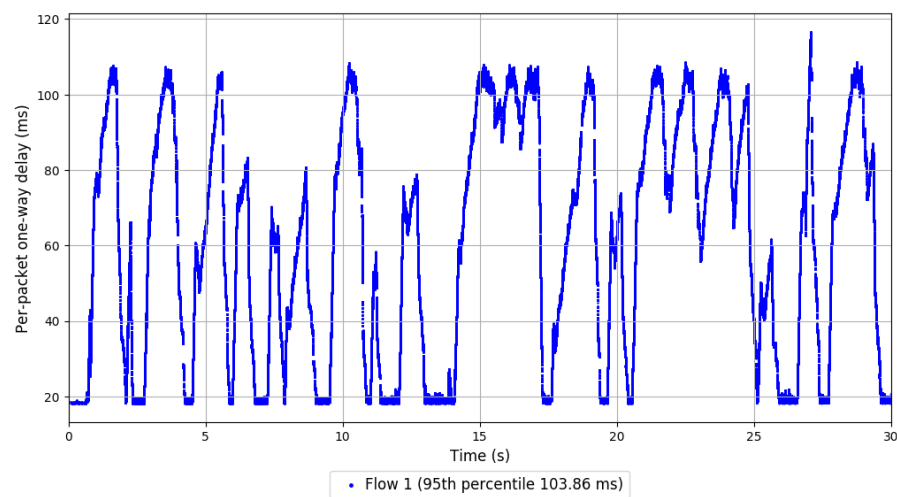
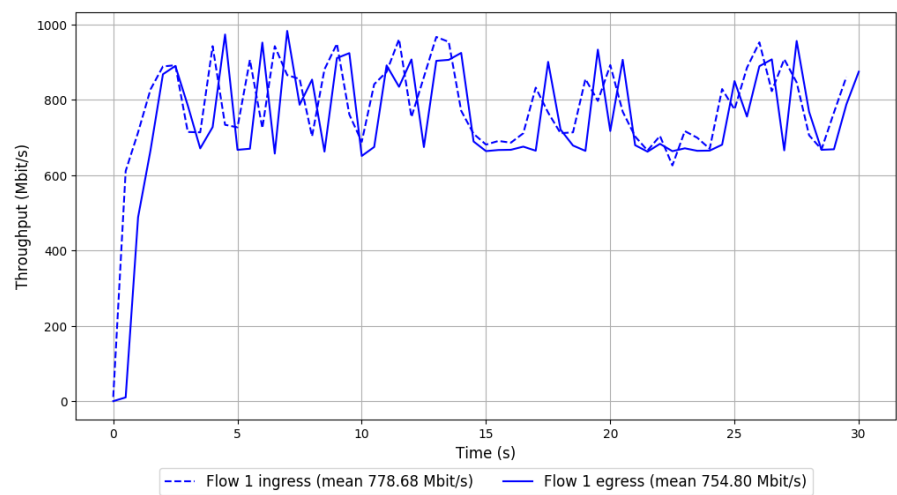


Run 6: Statistics of FillP

Start at: 2018-07-03 12:41:41
End at: 2018-07-03 12:42:11
Local clock offset: -0.891 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2018-07-03 15:33:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 754.80 Mbit/s
95th percentile per-packet one-way delay: 103.862 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 754.80 Mbit/s
95th percentile per-packet one-way delay: 103.862 ms
Loss rate: 3.06%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-03 13:07:28

End at: 2018-07-03 13:07:58

Local clock offset: 0.88 ms

Remote clock offset: 2.488 ms

Below is generated by plot.py at 2018-07-03 15:33:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 739.85 Mbit/s

95th percentile per-packet one-way delay: 107.627 ms

Loss rate: 6.75%

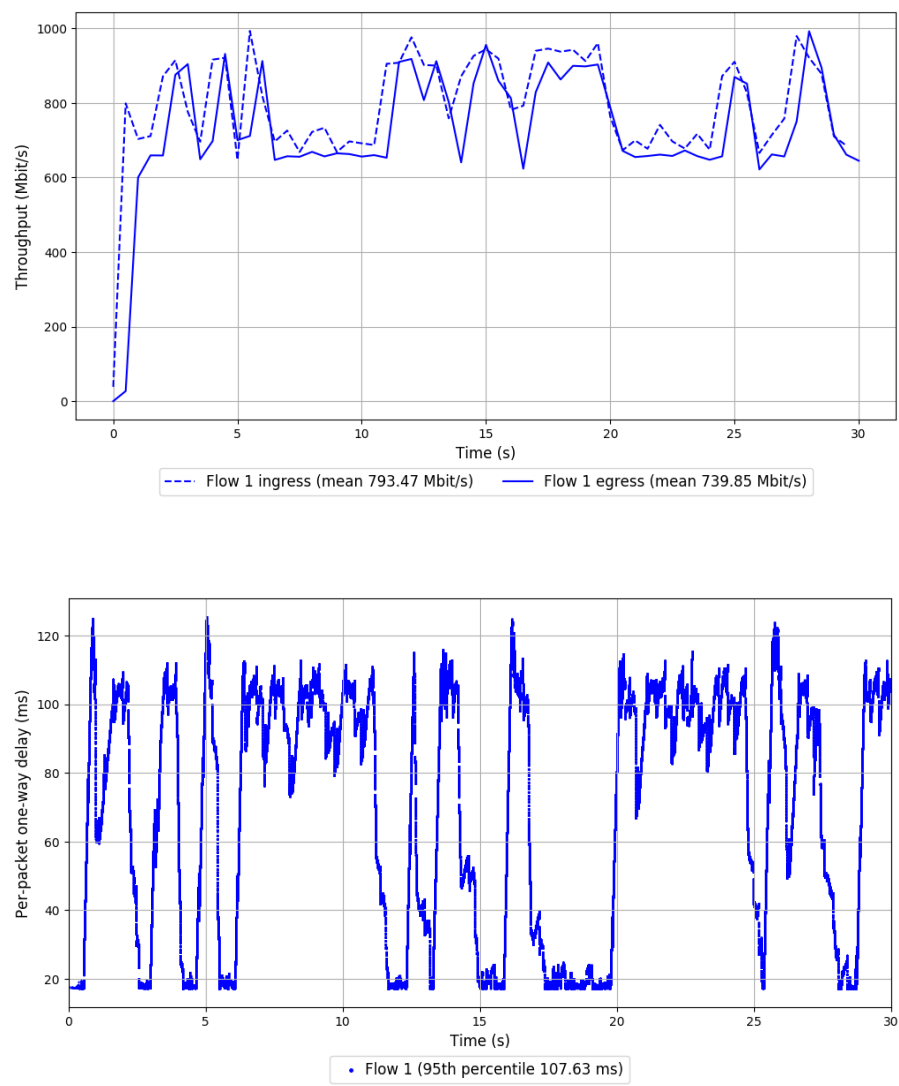
-- Flow 1:

Average throughput: 739.85 Mbit/s

95th percentile per-packet one-way delay: 107.627 ms

Loss rate: 6.75%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-03 13:33:13

End at: 2018-07-03 13:33:43

Local clock offset: 0.854 ms

Remote clock offset: 2.46 ms

Below is generated by plot.py at 2018-07-03 15:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 724.95 Mbit/s

95th percentile per-packet one-way delay: 106.006 ms

Loss rate: 2.88%

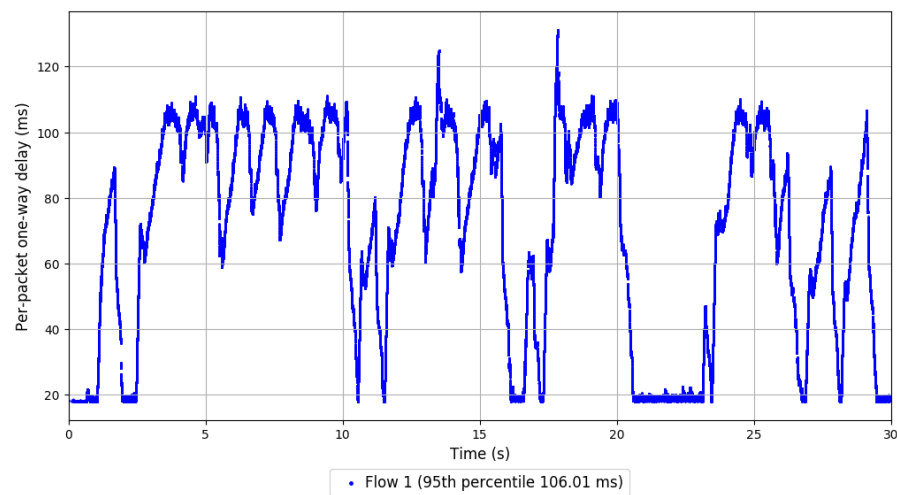
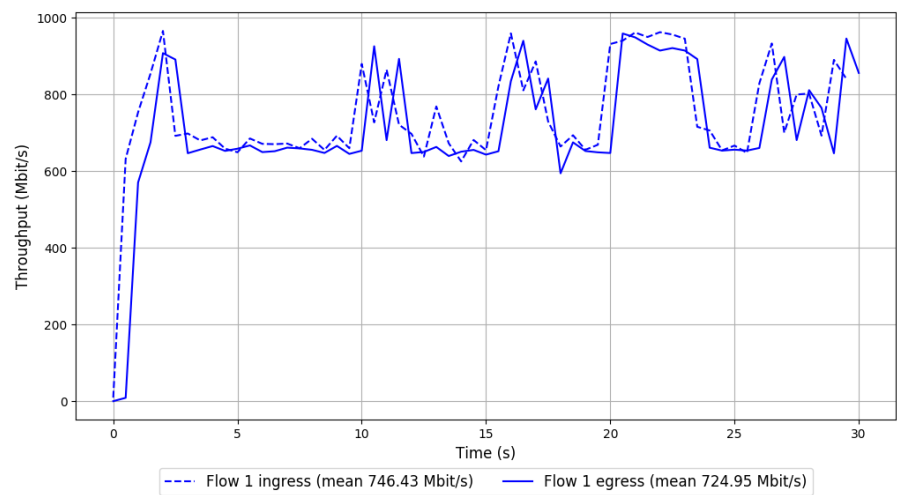
-- Flow 1:

Average throughput: 724.95 Mbit/s

95th percentile per-packet one-way delay: 106.006 ms

Loss rate: 2.88%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-03 13:58:52

End at: 2018-07-03 13:59:22

Local clock offset: 0.464 ms

Remote clock offset: 1.251 ms

Below is generated by plot.py at 2018-07-03 15:39:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 722.72 Mbit/s

95th percentile per-packet one-way delay: 103.988 ms

Loss rate: 3.15%

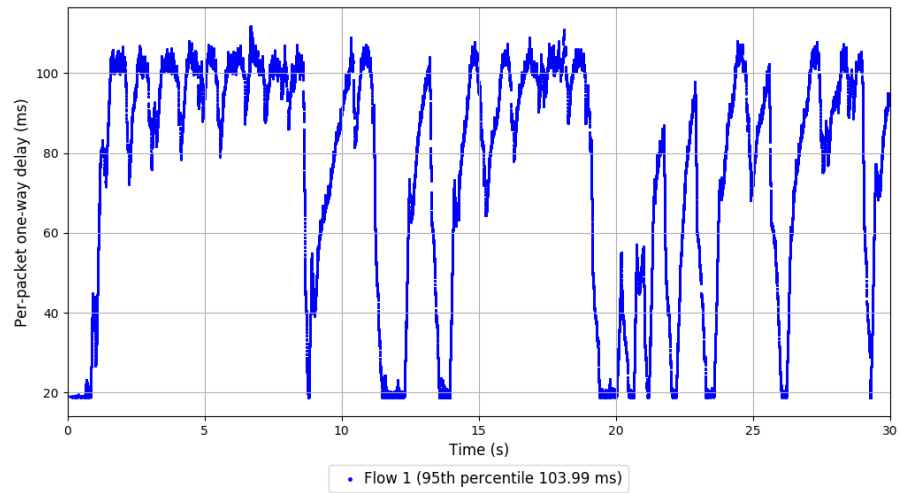
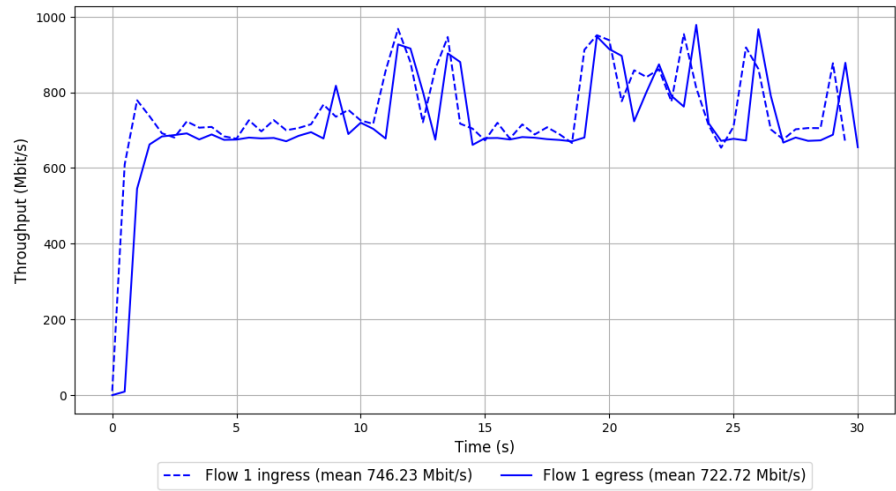
-- Flow 1:

Average throughput: 722.72 Mbit/s

95th percentile per-packet one-way delay: 103.988 ms

Loss rate: 3.15%

Run 9: Report of FillP — Data Link

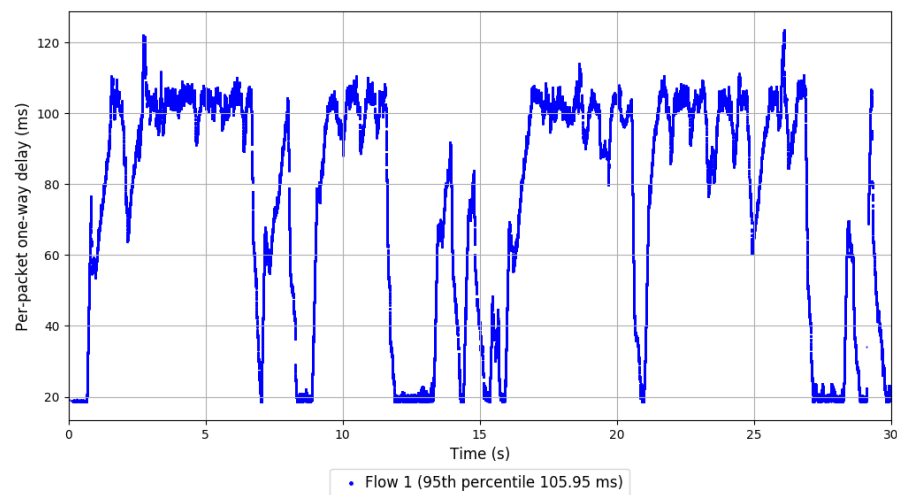
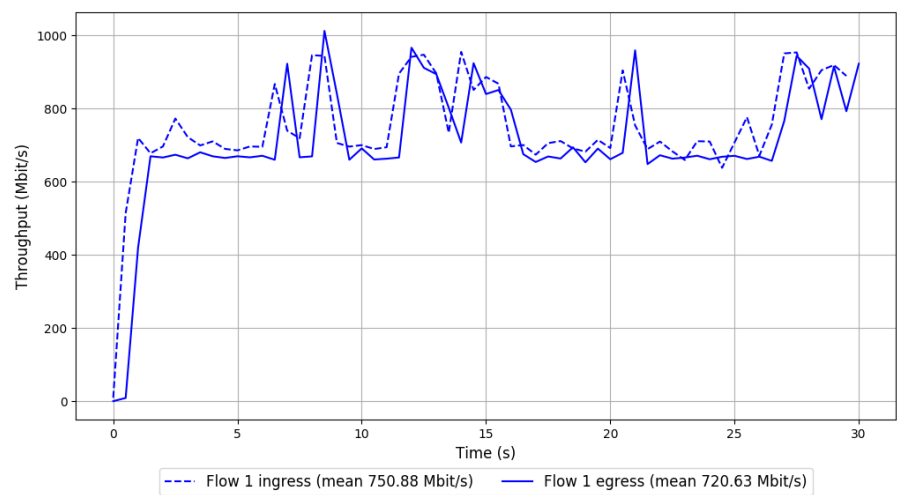


Run 10: Statistics of FillP

Start at: 2018-07-03 14:24:45
End at: 2018-07-03 14:25:15
Local clock offset: 0.746 ms
Remote clock offset: -0.299 ms

Below is generated by plot.py at 2018-07-03 15:39:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 720.63 Mbit/s
95th percentile per-packet one-way delay: 105.947 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 720.63 Mbit/s
95th percentile per-packet one-way delay: 105.947 ms
Loss rate: 4.03%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-03 10:43:22

End at: 2018-07-03 10:43:52

Local clock offset: 4.56 ms

Remote clock offset: 3.156 ms

Below is generated by plot.py at 2018-07-03 15:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 894.25 Mbit/s

95th percentile per-packet one-way delay: 84.435 ms

Loss rate: 12.19%

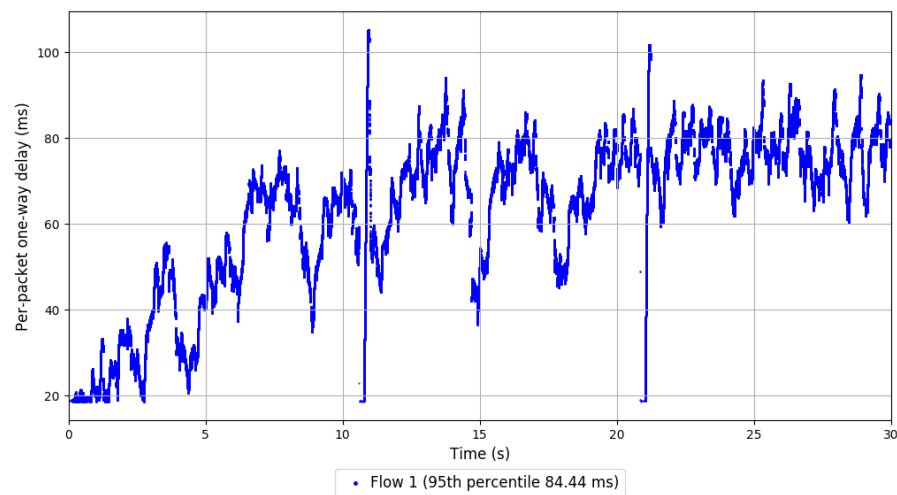
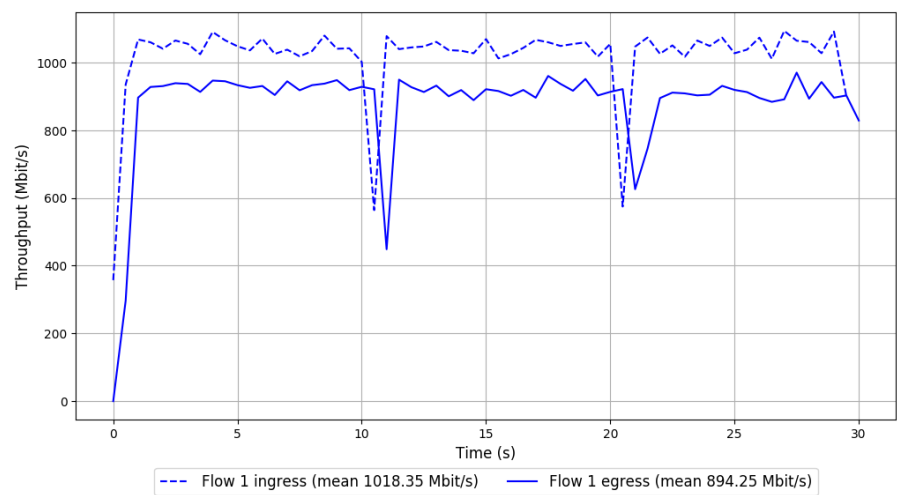
-- Flow 1:

Average throughput: 894.25 Mbit/s

95th percentile per-packet one-way delay: 84.435 ms

Loss rate: 12.19%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-03 11:09:14

End at: 2018-07-03 11:09:44

Local clock offset: 3.486 ms

Remote clock offset: 3.243 ms

Below is generated by plot.py at 2018-07-03 15:46:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 893.07 Mbit/s

95th percentile per-packet one-way delay: 79.723 ms

Loss rate: 11.95%

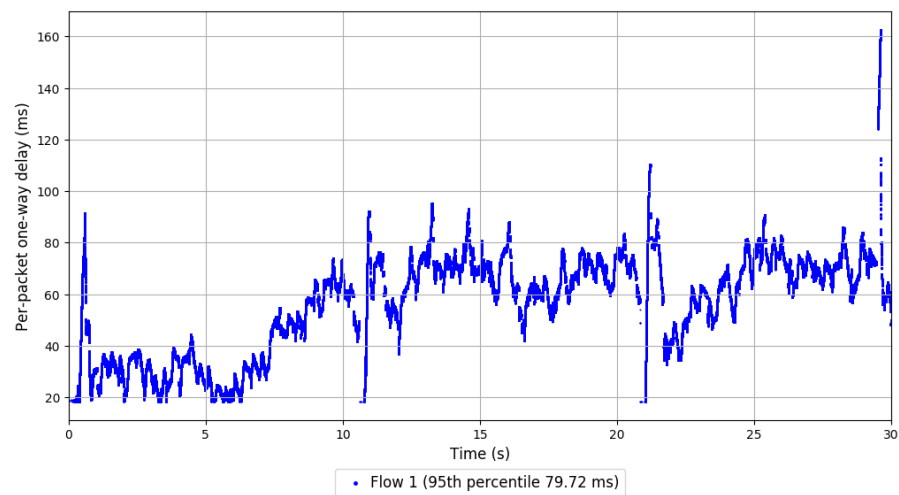
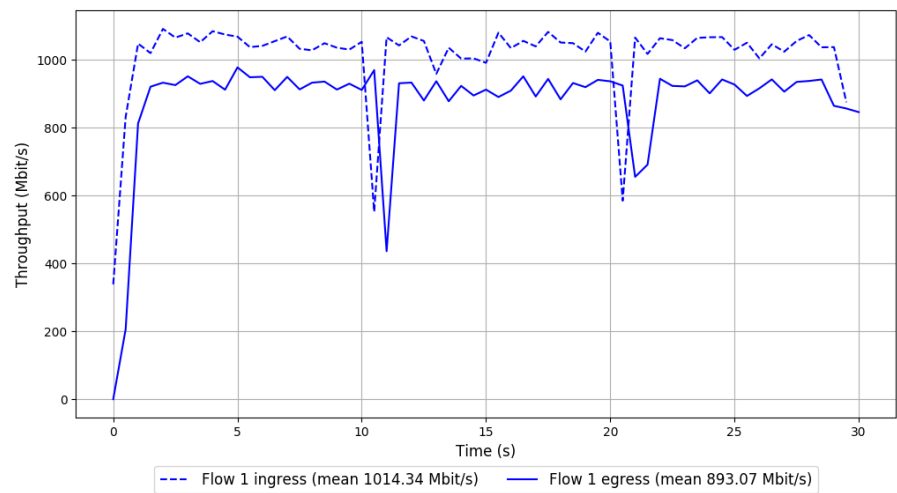
-- Flow 1:

Average throughput: 893.07 Mbit/s

95th percentile per-packet one-way delay: 79.723 ms

Loss rate: 11.95%

Run 2: Report of FillP-Sheep — Data Link

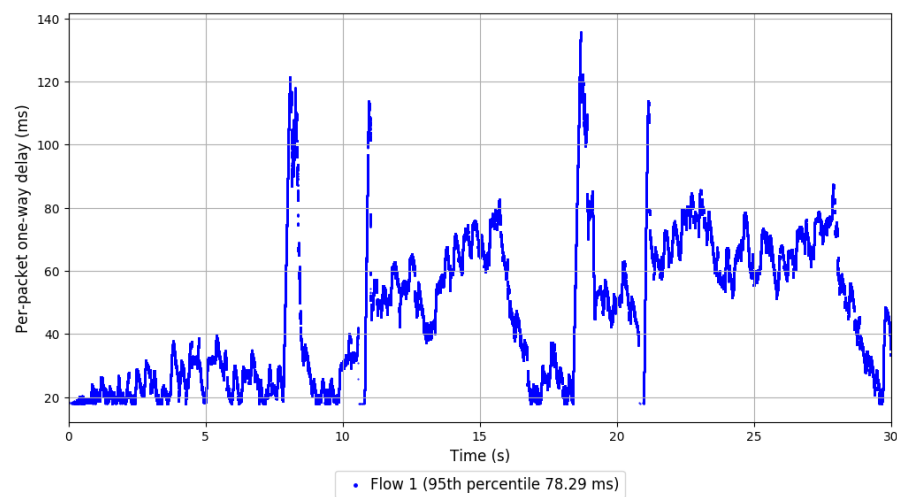
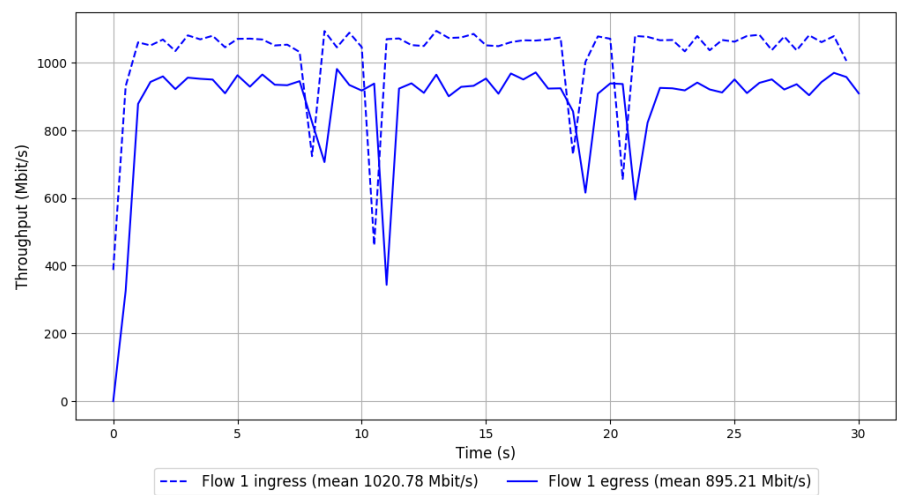


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-03 11:35:02
End at: 2018-07-03 11:35:32
Local clock offset: 0.995 ms
Remote clock offset: -0.523 ms

Below is generated by plot.py at 2018-07-03 15:46:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 895.21 Mbit/s
95th percentile per-packet one-way delay: 78.288 ms
Loss rate: 12.30%
-- Flow 1:
Average throughput: 895.21 Mbit/s
95th percentile per-packet one-way delay: 78.288 ms
Loss rate: 12.30%

Run 3: Report of FillP-Sheep — Data Link

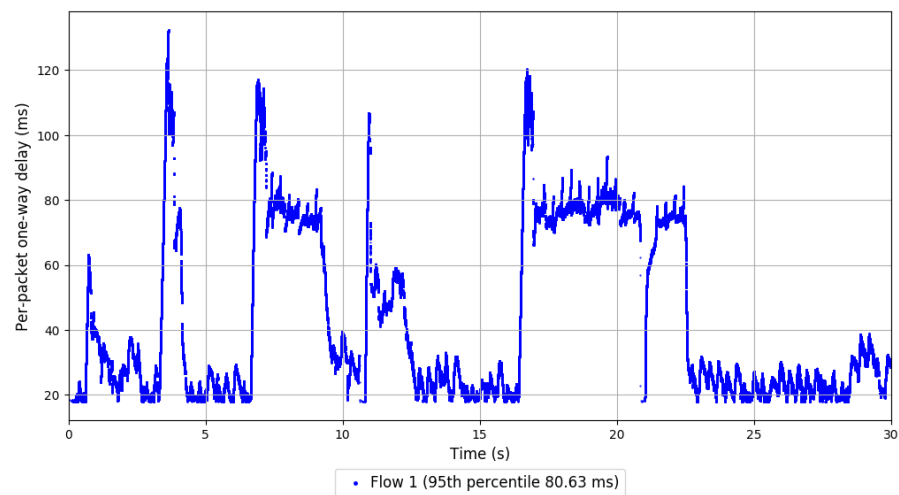
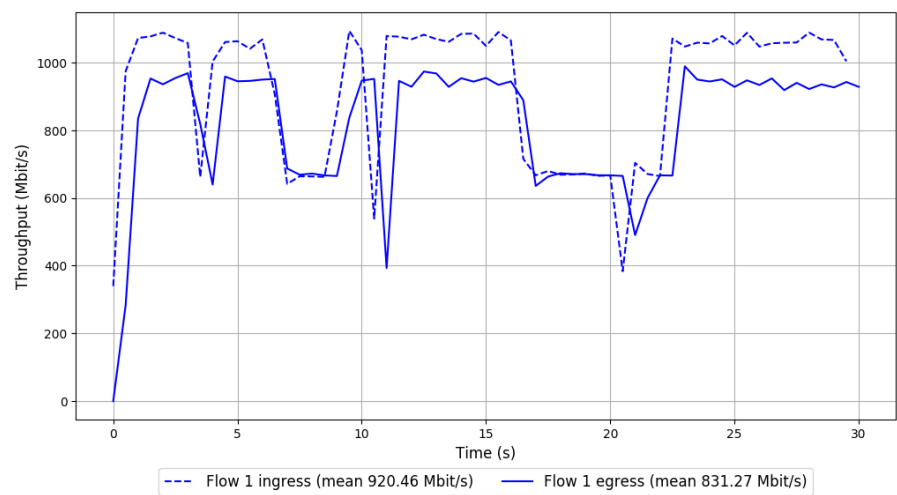


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-03 12:00:58
End at: 2018-07-03 12:01:28
Local clock offset: 0.431 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-07-03 15:46:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 831.27 Mbit/s
95th percentile per-packet one-way delay: 80.632 ms
Loss rate: 9.69%
-- Flow 1:
Average throughput: 831.27 Mbit/s
95th percentile per-packet one-way delay: 80.632 ms
Loss rate: 9.69%

Run 4: Report of FillP-Sheep — Data Link

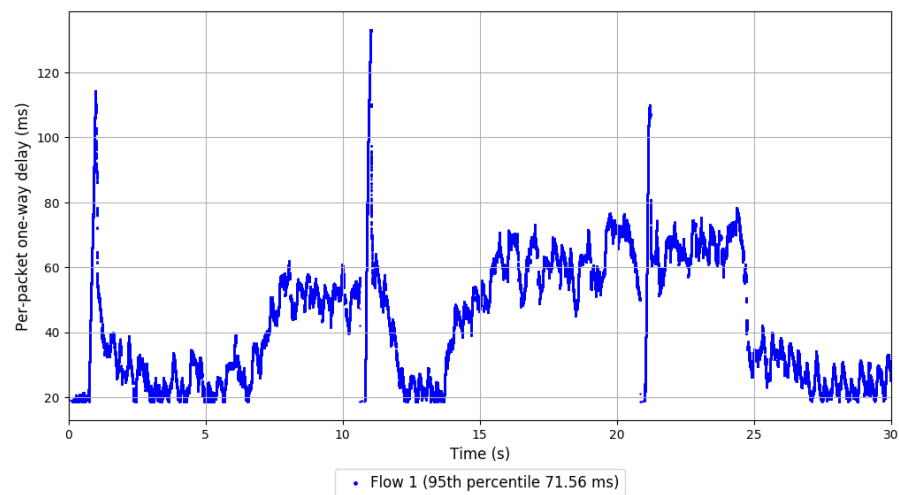
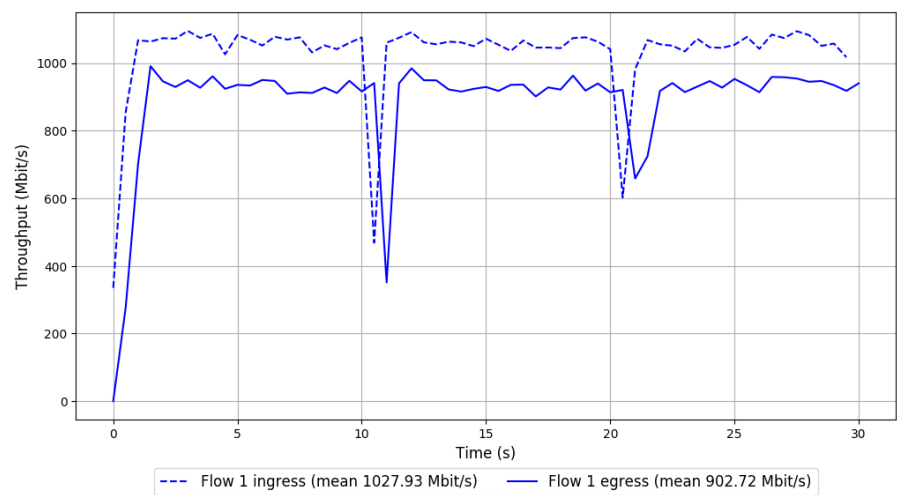


Run 5: Statistics of FillP-Sheep

Start at: 2018-07-03 12:26:38
End at: 2018-07-03 12:27:08
Local clock offset: -3.079 ms
Remote clock offset: -0.223 ms

Below is generated by plot.py at 2018-07-03 15:47:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 902.72 Mbit/s
95th percentile per-packet one-way delay: 71.558 ms
Loss rate: 12.18%
-- Flow 1:
Average throughput: 902.72 Mbit/s
95th percentile per-packet one-way delay: 71.558 ms
Loss rate: 12.18%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-03 12:52:26

End at: 2018-07-03 12:52:56

Local clock offset: 0.473 ms

Remote clock offset: -0.589 ms

Below is generated by plot.py at 2018-07-03 15:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 805.53 Mbit/s

95th percentile per-packet one-way delay: 106.353 ms

Loss rate: 10.21%

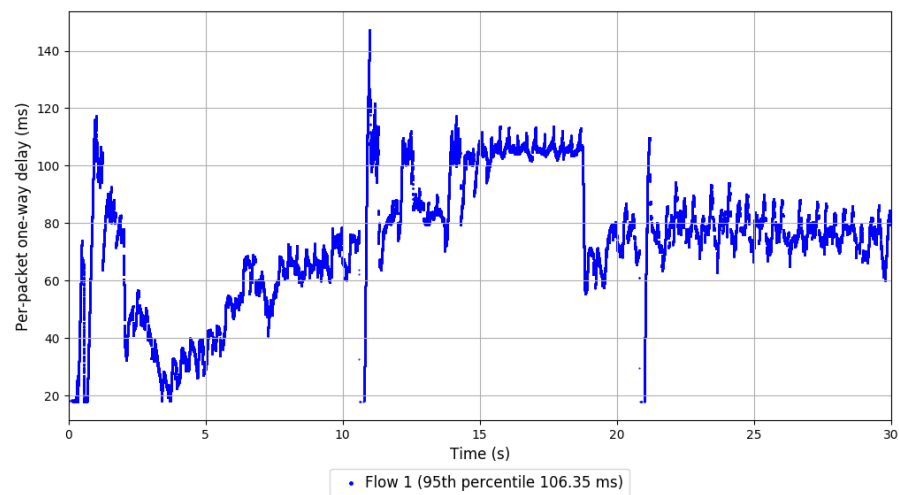
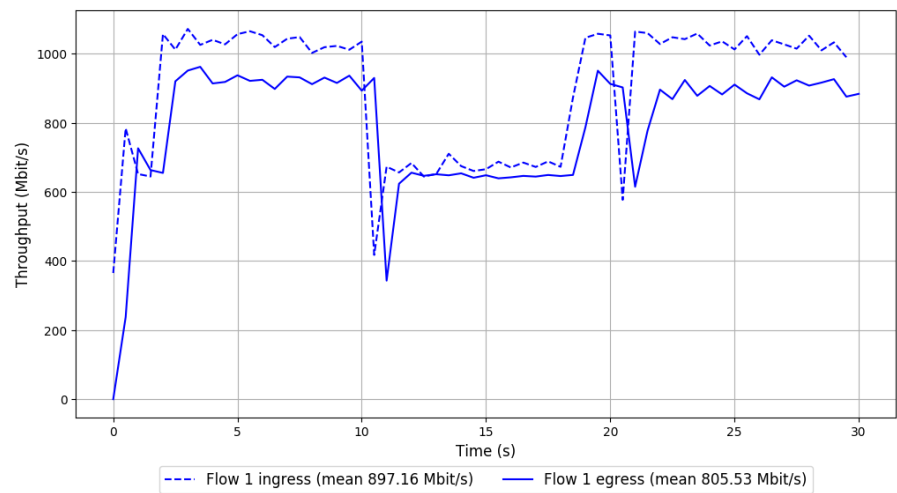
-- Flow 1:

Average throughput: 805.53 Mbit/s

95th percentile per-packet one-way delay: 106.353 ms

Loss rate: 10.21%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-03 13:18:10

End at: 2018-07-03 13:18:40

Local clock offset: 0.789 ms

Remote clock offset: 3.229 ms

Below is generated by plot.py at 2018-07-03 15:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 897.71 Mbit/s

95th percentile per-packet one-way delay: 79.543 ms

Loss rate: 12.13%

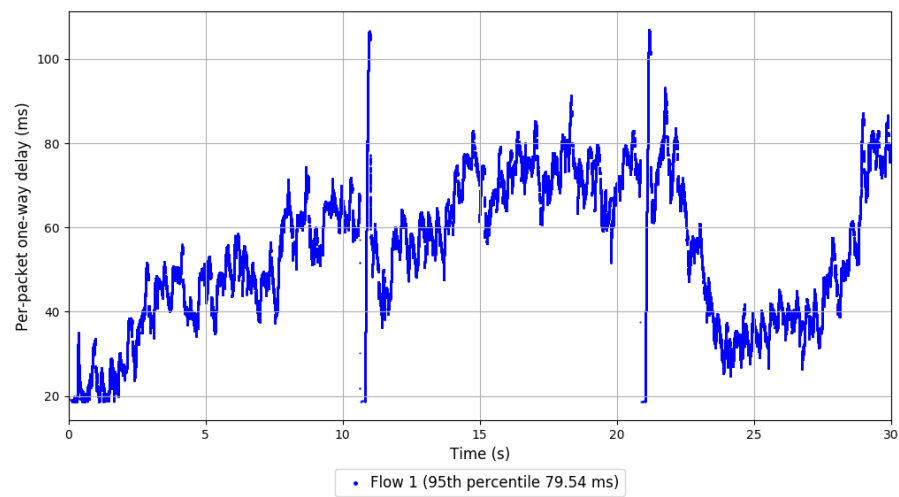
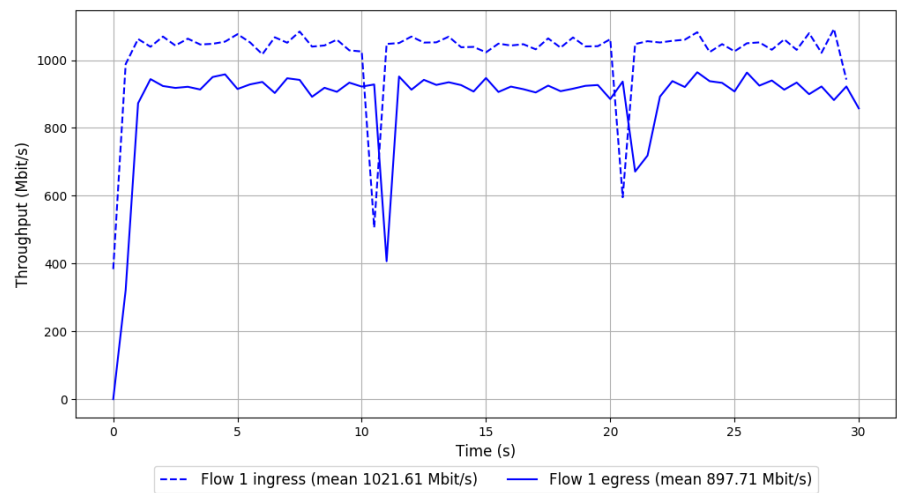
-- Flow 1:

Average throughput: 897.71 Mbit/s

95th percentile per-packet one-way delay: 79.543 ms

Loss rate: 12.13%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-03 13:43:59

End at: 2018-07-03 13:44:29

Local clock offset: 0.609 ms

Remote clock offset: 1.562 ms

Below is generated by plot.py at 2018-07-03 15:54:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.80 Mbit/s

95th percentile per-packet one-way delay: 107.364 ms

Loss rate: 10.00%

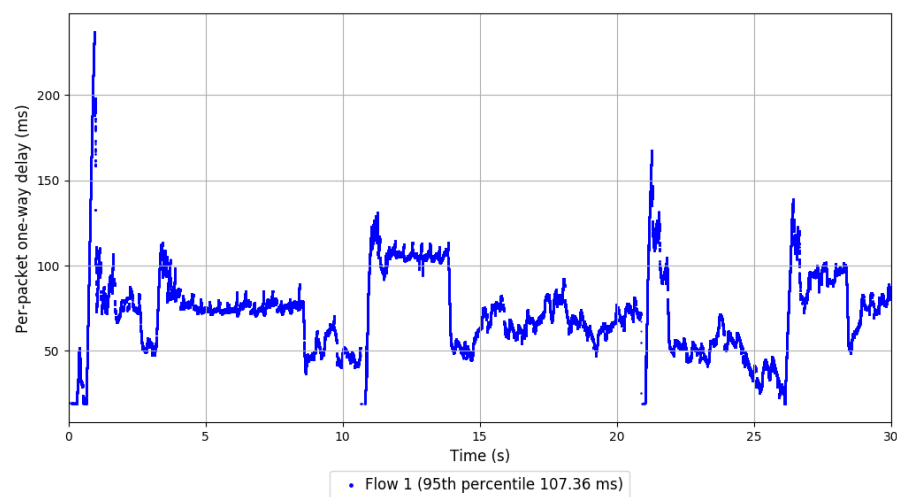
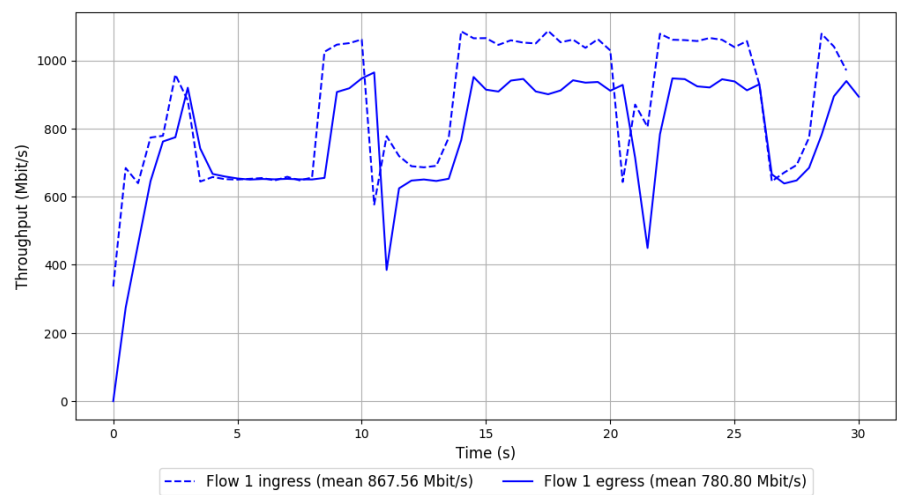
-- Flow 1:

Average throughput: 780.80 Mbit/s

95th percentile per-packet one-way delay: 107.364 ms

Loss rate: 10.00%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-03 14:09:38

End at: 2018-07-03 14:10:08

Local clock offset: 0.535 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.53 Mbit/s

95th percentile per-packet one-way delay: 78.664 ms

Loss rate: 12.63%

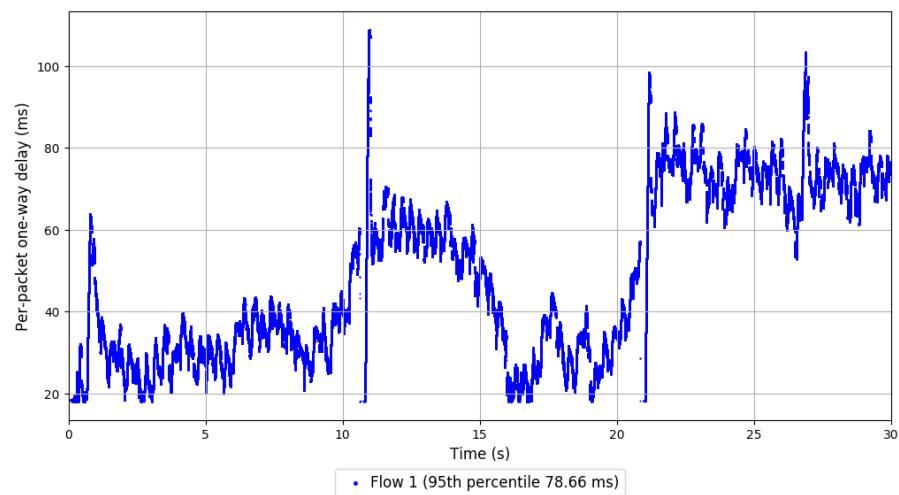
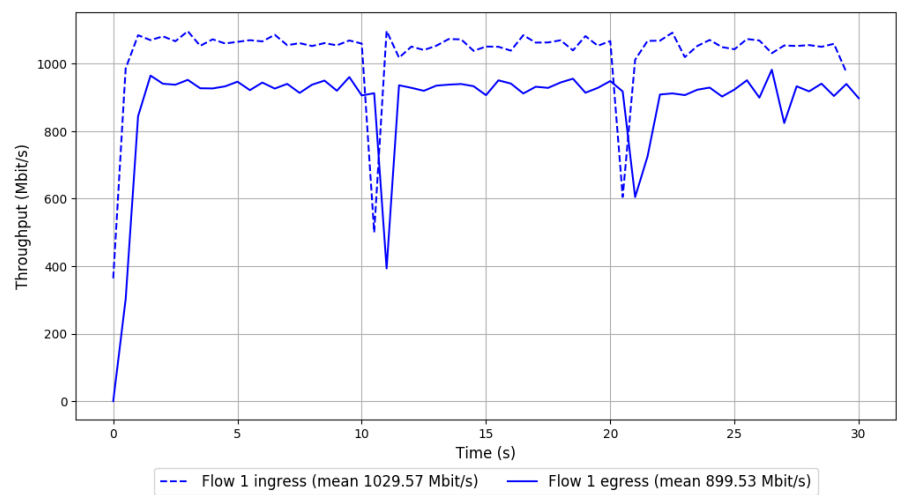
-- Flow 1:

Average throughput: 899.53 Mbit/s

95th percentile per-packet one-way delay: 78.664 ms

Loss rate: 12.63%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-03 14:35:31

End at: 2018-07-03 14:36:01

Local clock offset: 0.71 ms

Remote clock offset: -0.56 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 720.81 Mbit/s

95th percentile per-packet one-way delay: 104.226 ms

Loss rate: 6.06%

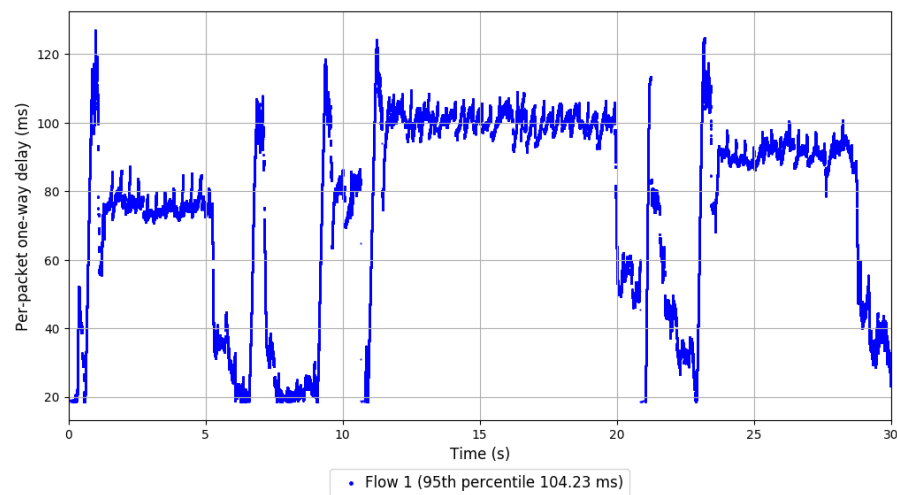
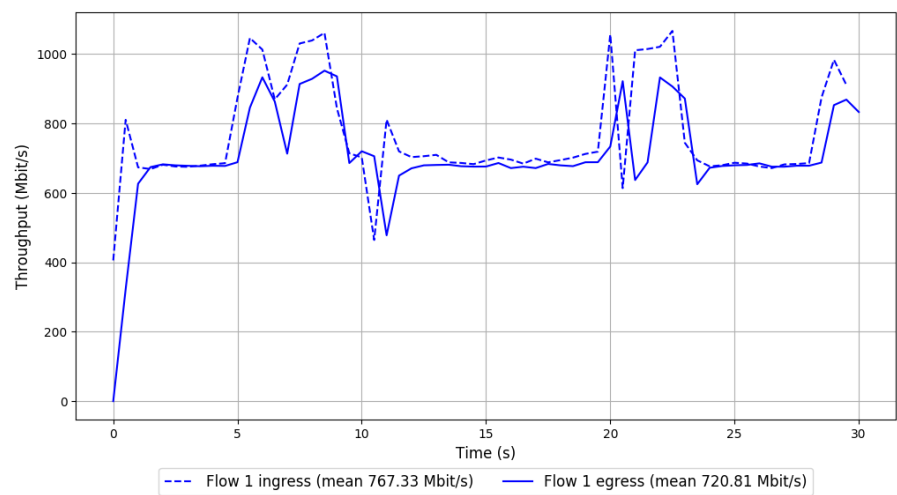
-- Flow 1:

Average throughput: 720.81 Mbit/s

95th percentile per-packet one-way delay: 104.226 ms

Loss rate: 6.06%

Run 10: Report of FillP-Sheep — Data Link

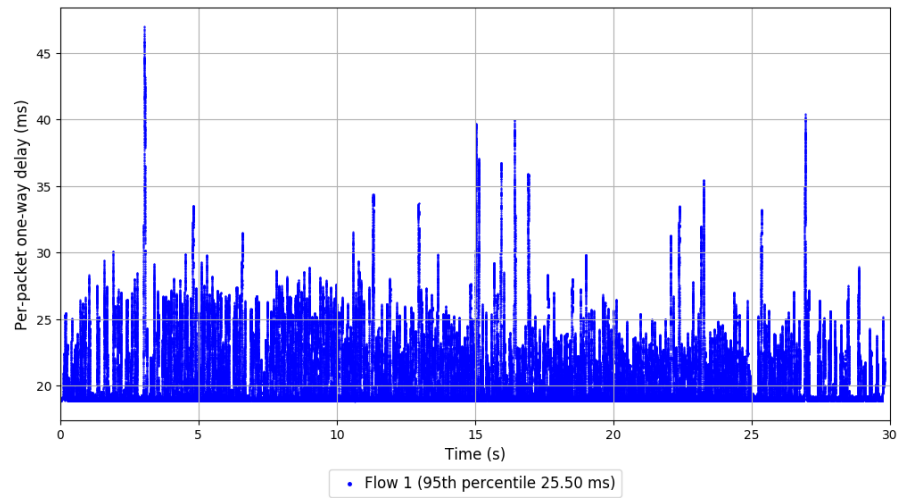
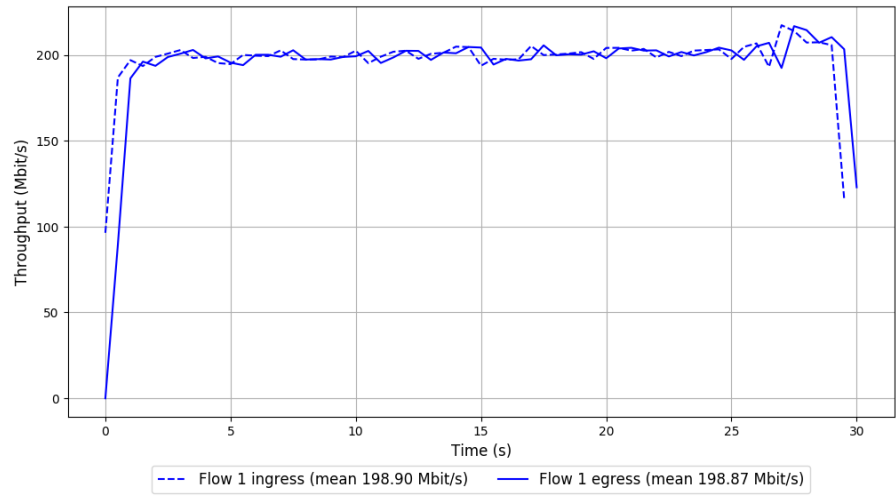


```
Run 1: Statistics of Indigo

Start at: 2018-07-03 10:37:30
End at: 2018-07-03 10:38:00
Local clock offset: 4.375 ms
Remote clock offset: 3.238 ms

# Below is generated by plot.py at 2018-07-03 15:59:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.87 Mbit/s
95th percentile per-packet one-way delay: 25.496 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 198.87 Mbit/s
95th percentile per-packet one-way delay: 25.496 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-03 11:03:20

End at: 2018-07-03 11:03:50

Local clock offset: 6.111 ms

Remote clock offset: 3.144 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.36 Mbit/s

95th percentile per-packet one-way delay: 21.740 ms

Loss rate: 0.02%

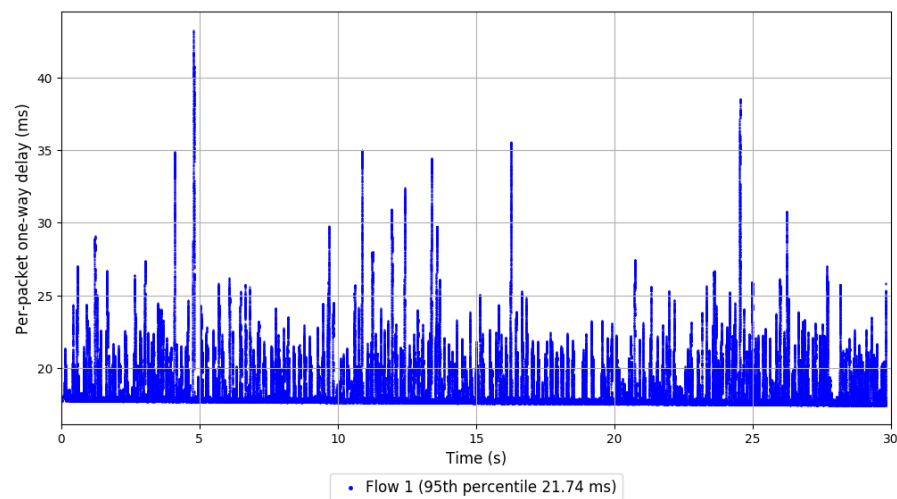
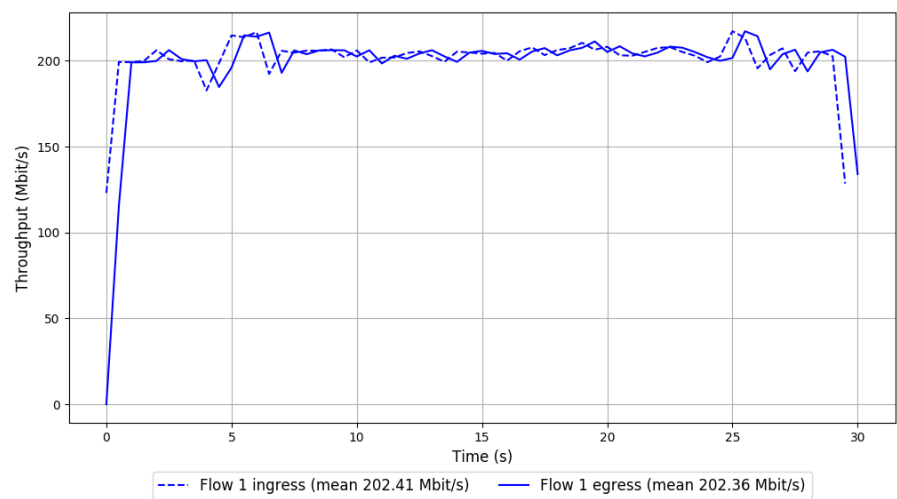
-- Flow 1:

Average throughput: 202.36 Mbit/s

95th percentile per-packet one-way delay: 21.740 ms

Loss rate: 0.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-03 11:29:08

End at: 2018-07-03 11:29:38

Local clock offset: 1.273 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.52 Mbit/s

95th percentile per-packet one-way delay: 23.376 ms

Loss rate: 0.00%

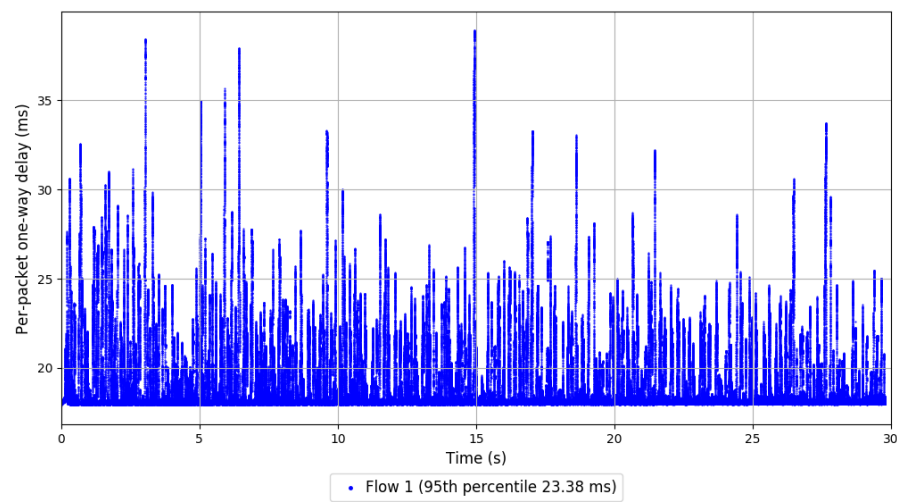
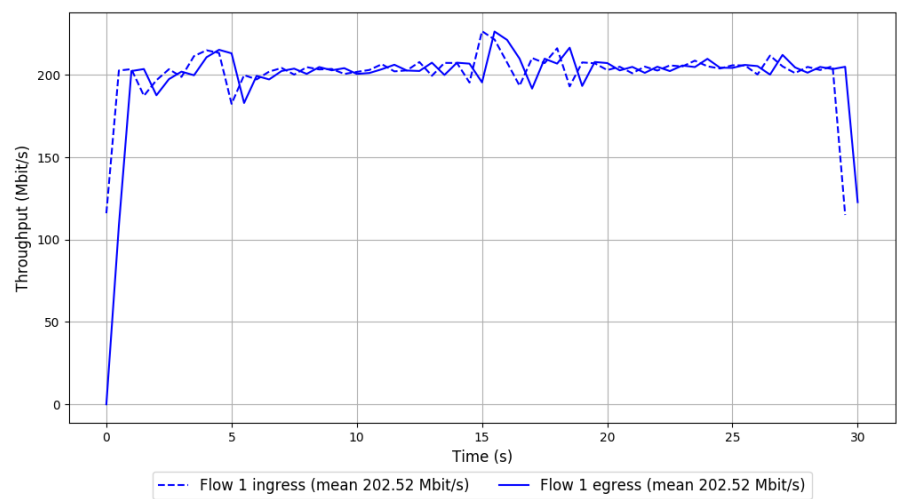
-- Flow 1:

Average throughput: 202.52 Mbit/s

95th percentile per-packet one-way delay: 23.376 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

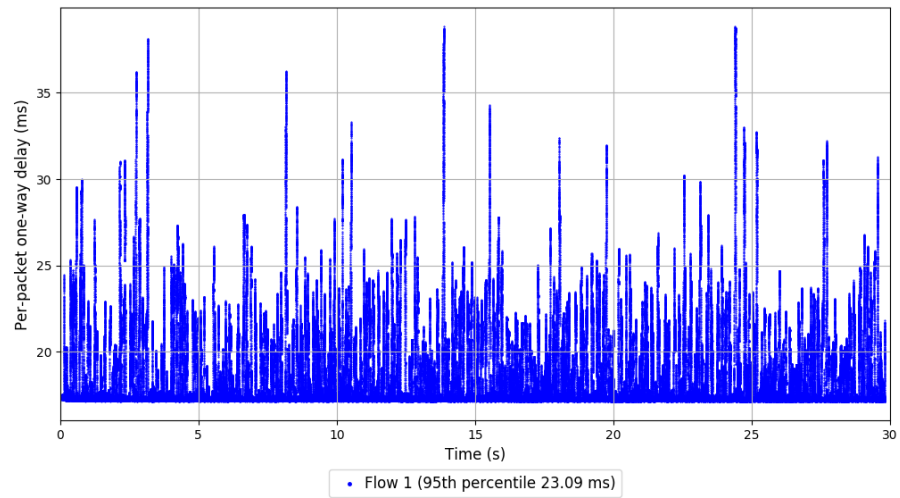
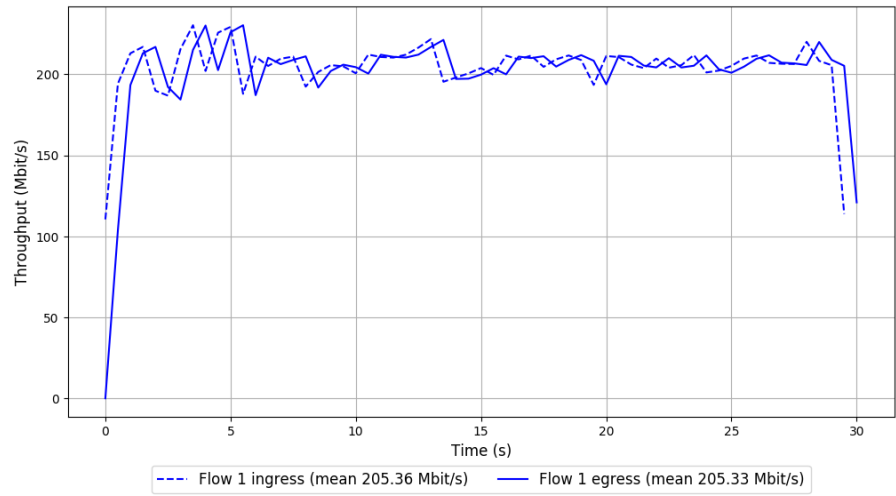


Run 4: Statistics of Indigo

Start at: 2018-07-03 11:55:02
End at: 2018-07-03 11:55:32
Local clock offset: 0.426 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-07-03 15:59:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.33 Mbit/s
95th percentile per-packet one-way delay: 23.091 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 205.33 Mbit/s
95th percentile per-packet one-way delay: 23.091 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

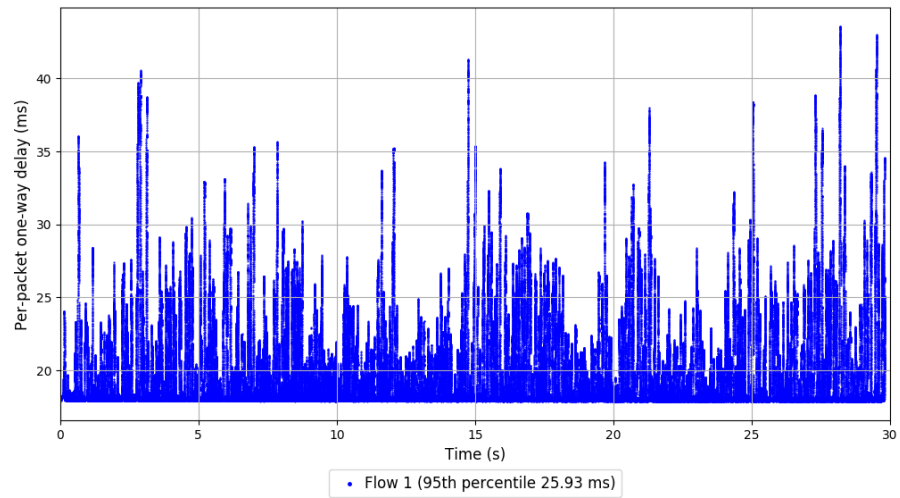
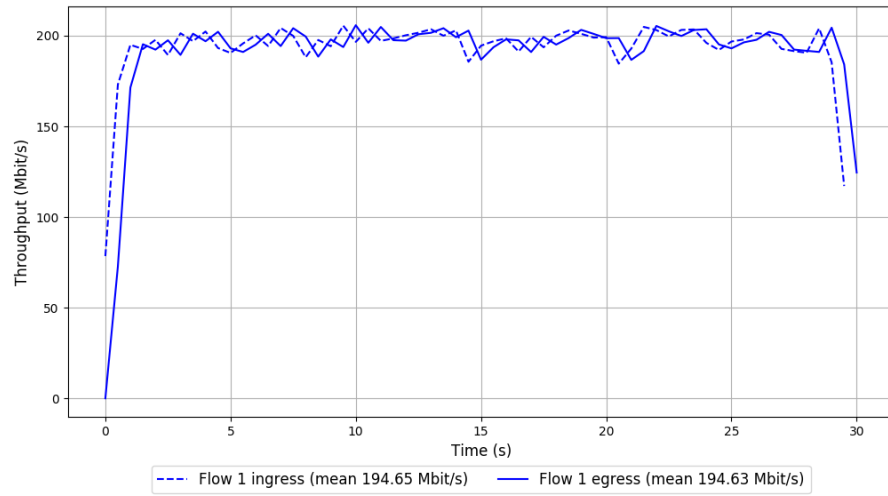


Run 5: Statistics of Indigo

Start at: 2018-07-03 12:20:44
End at: 2018-07-03 12:21:14
Local clock offset: -2.562 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-07-03 15:59:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 194.63 Mbit/s
95th percentile per-packet one-way delay: 25.927 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 194.63 Mbit/s
95th percentile per-packet one-way delay: 25.927 ms
Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-03 12:46:33

End at: 2018-07-03 12:47:03

Local clock offset: -0.05 ms

Remote clock offset: -0.354 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.75 Mbit/s

95th percentile per-packet one-way delay: 26.421 ms

Loss rate: 0.01%

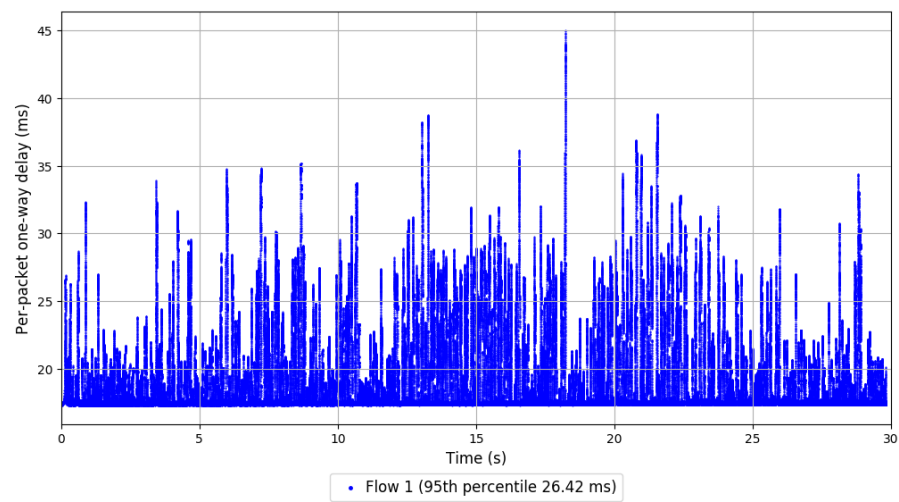
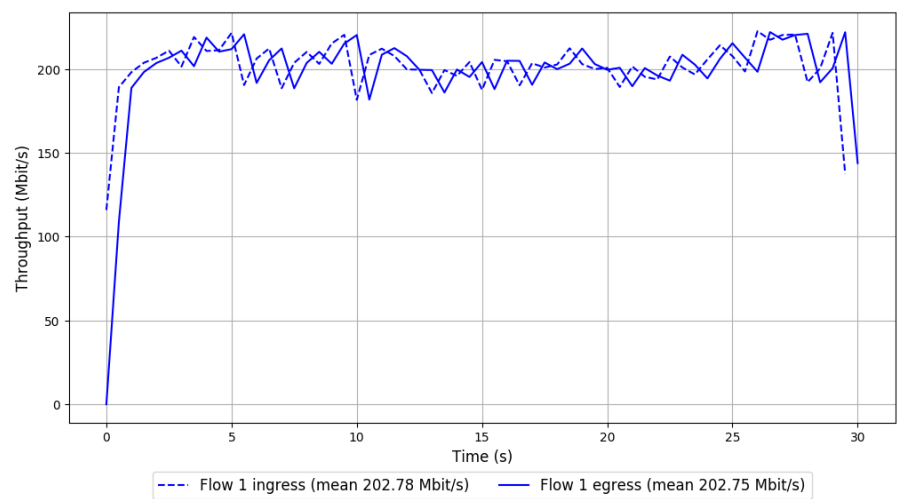
-- Flow 1:

Average throughput: 202.75 Mbit/s

95th percentile per-packet one-way delay: 26.421 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-03 13:12:18

End at: 2018-07-03 13:12:48

Local clock offset: 0.732 ms

Remote clock offset: 2.848 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.30 Mbit/s

95th percentile per-packet one-way delay: 26.848 ms

Loss rate: 0.00%

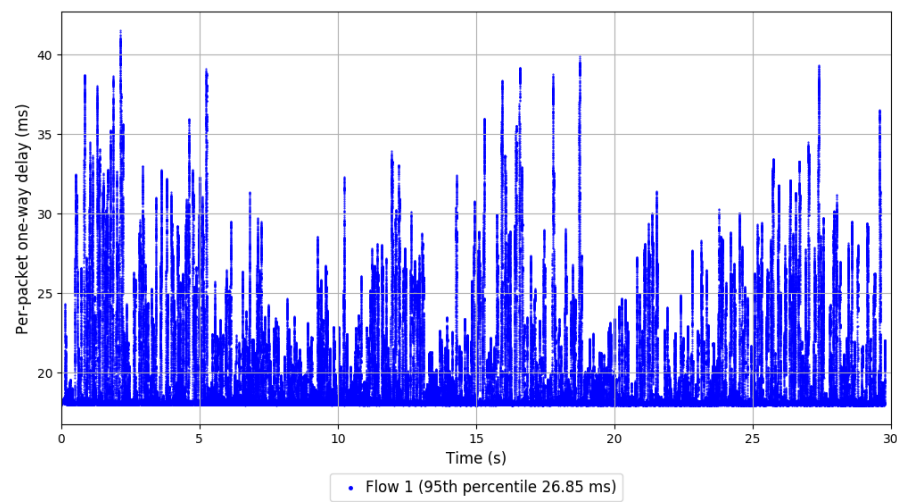
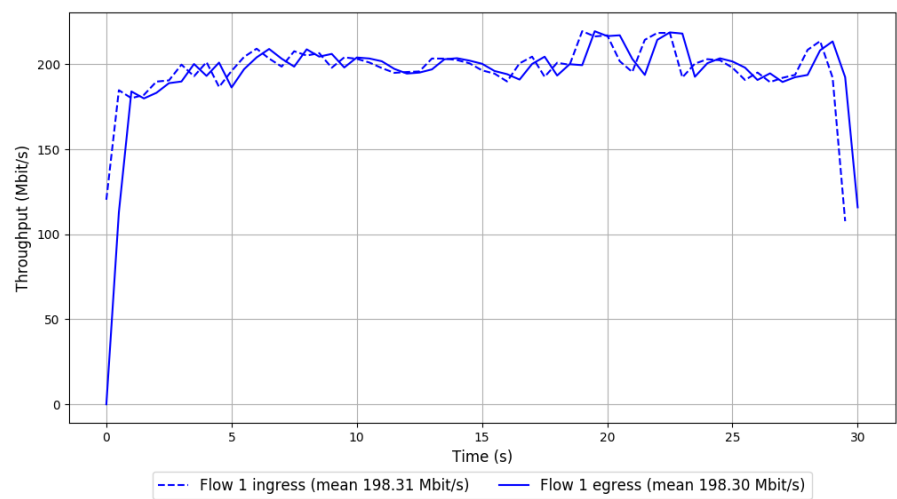
-- Flow 1:

Average throughput: 198.30 Mbit/s

95th percentile per-packet one-way delay: 26.848 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-03 13:38:04

End at: 2018-07-03 13:38:34

Local clock offset: 0.744 ms

Remote clock offset: 1.973 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.78 Mbit/s

95th percentile per-packet one-way delay: 27.060 ms

Loss rate: 0.00%

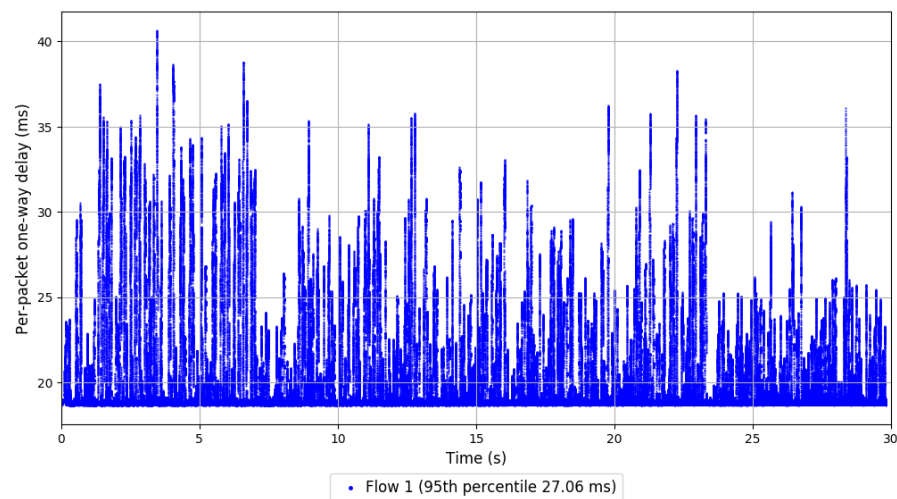
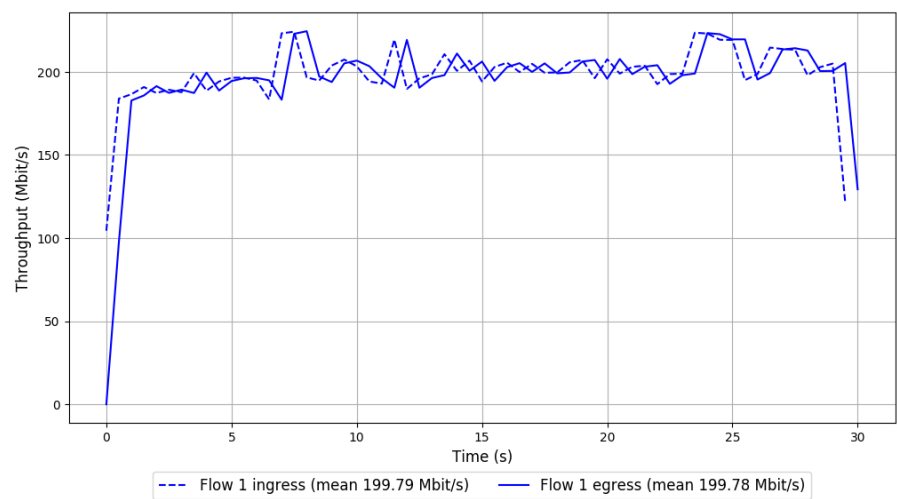
-- Flow 1:

Average throughput: 199.78 Mbit/s

95th percentile per-packet one-way delay: 27.060 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-03 14:03:43

End at: 2018-07-03 14:04:13

Local clock offset: 0.573 ms

Remote clock offset: 0.946 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.48 Mbit/s

95th percentile per-packet one-way delay: 25.148 ms

Loss rate: 0.01%

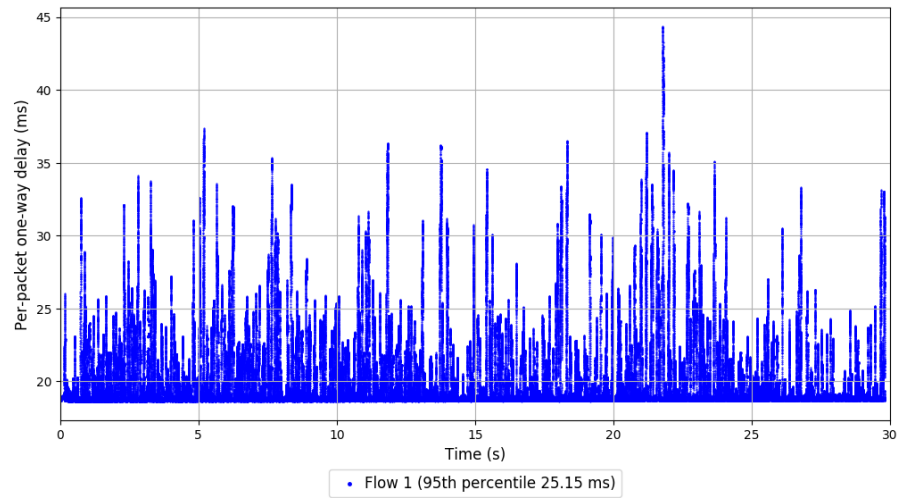
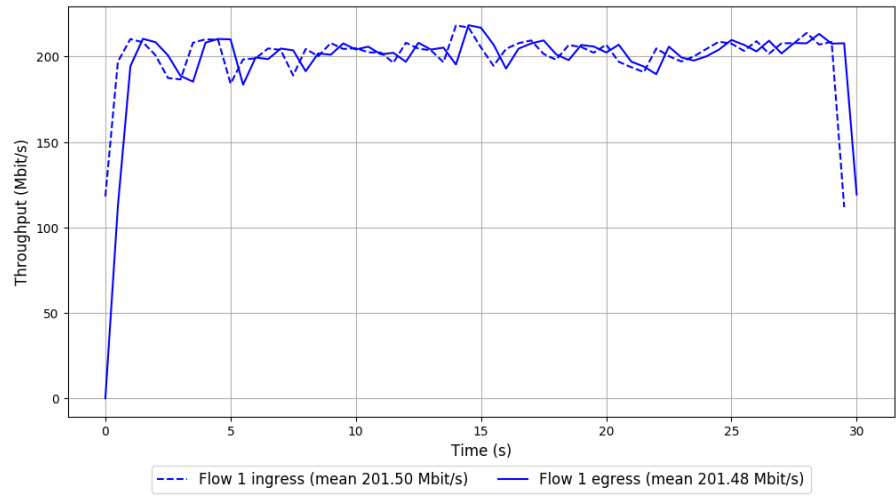
-- Flow 1:

Average throughput: 201.48 Mbit/s

95th percentile per-packet one-way delay: 25.148 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-03 14:29:36

End at: 2018-07-03 14:30:06

Local clock offset: 0.773 ms

Remote clock offset: -0.454 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.50 Mbit/s

95th percentile per-packet one-way delay: 26.464 ms

Loss rate: 0.00%

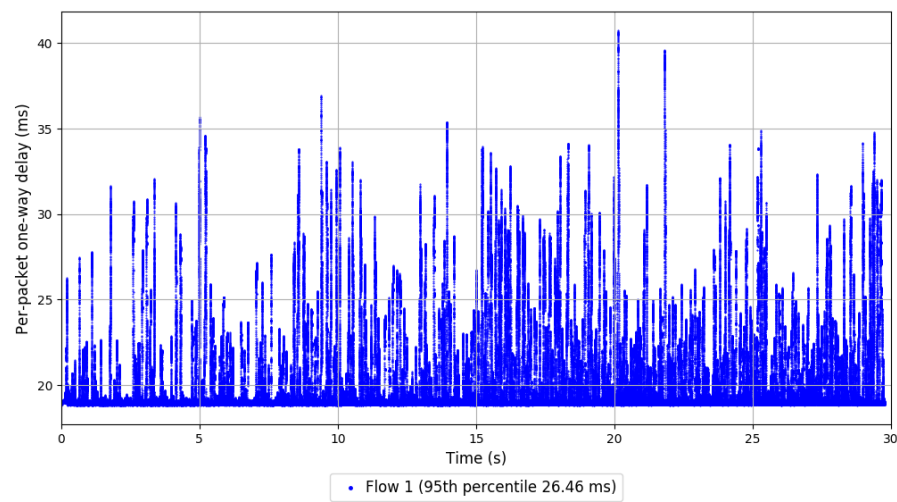
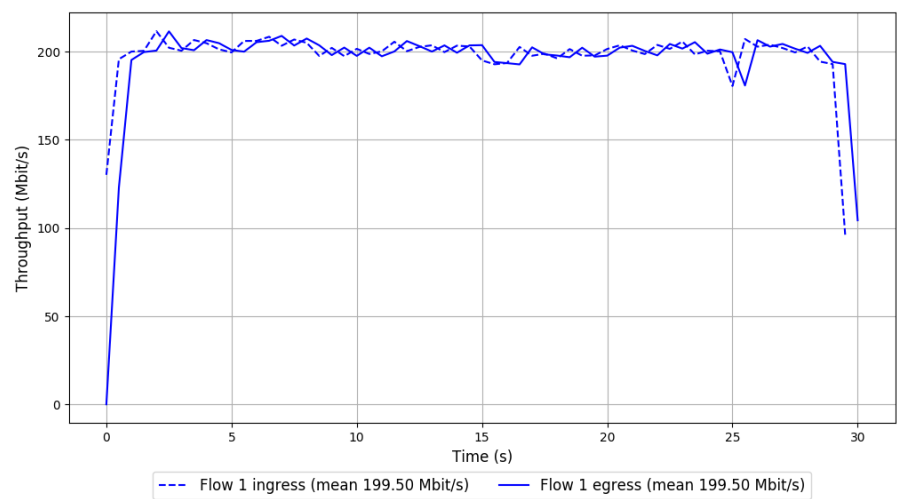
-- Flow 1:

Average throughput: 199.50 Mbit/s

95th percentile per-packet one-way delay: 26.464 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

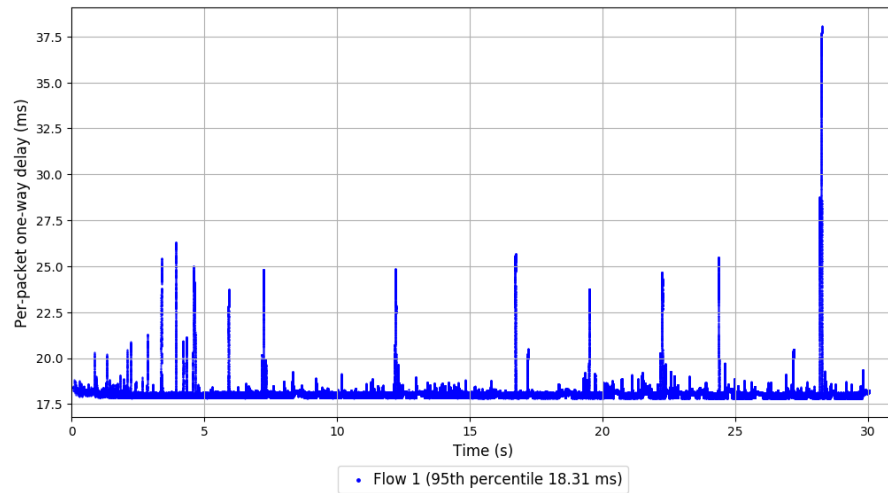
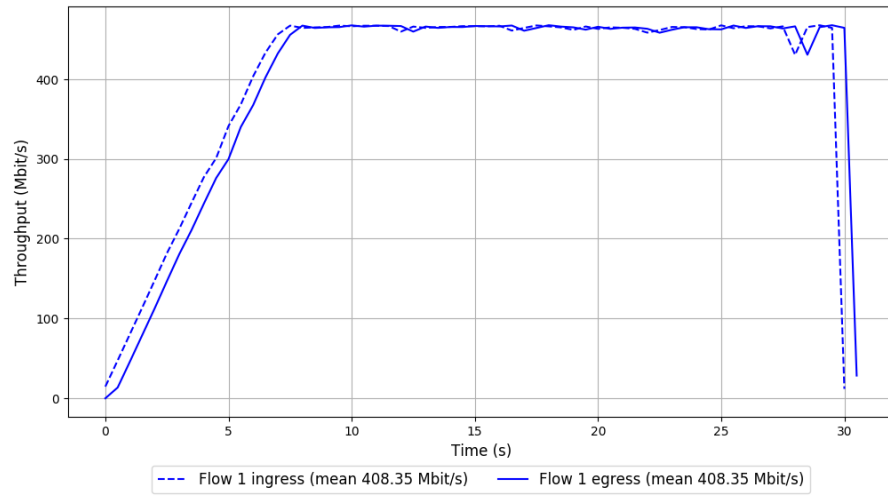


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-03 10:34:17
End at: 2018-07-03 10:34:47
Local clock offset: 4.613 ms
Remote clock offset: 3.268 ms

# Below is generated by plot.py at 2018-07-03 15:59:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 408.35 Mbit/s
95th percentile per-packet one-way delay: 18.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 408.35 Mbit/s
95th percentile per-packet one-way delay: 18.311 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-03 11:00:03

End at: 2018-07-03 11:00:33

Local clock offset: 5.805 ms

Remote clock offset: 3.11 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.62 Mbit/s

95th percentile per-packet one-way delay: 18.716 ms

Loss rate: 0.00%

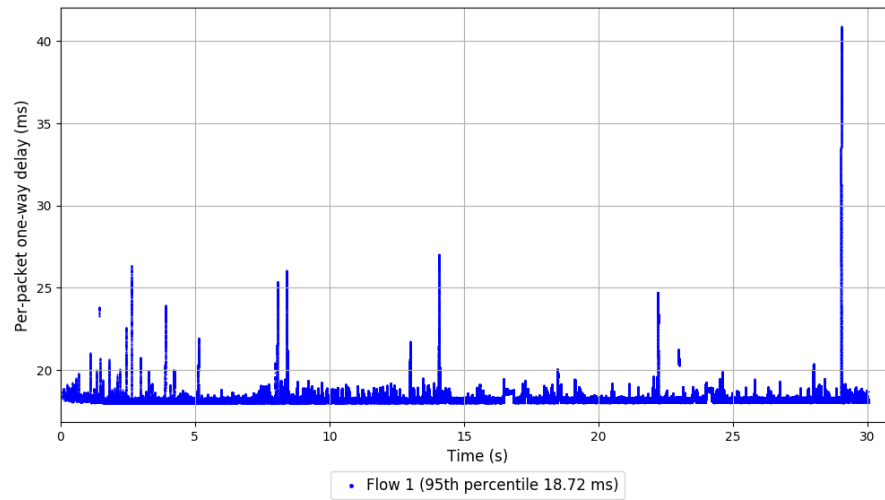
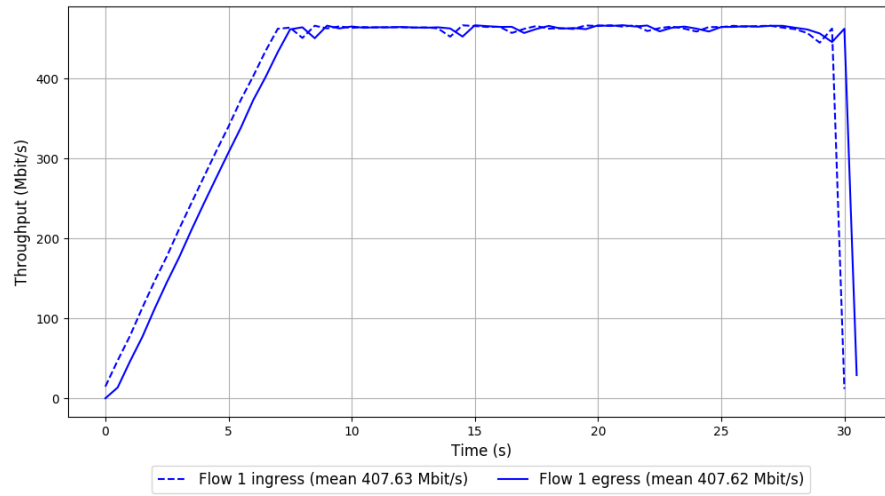
-- Flow 1:

Average throughput: 407.62 Mbit/s

95th percentile per-packet one-way delay: 18.716 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-03 11:25:55

End at: 2018-07-03 11:26:26

Local clock offset: 1.223 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-07-03 15:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.94 Mbit/s

95th percentile per-packet one-way delay: 19.132 ms

Loss rate: 0.00%

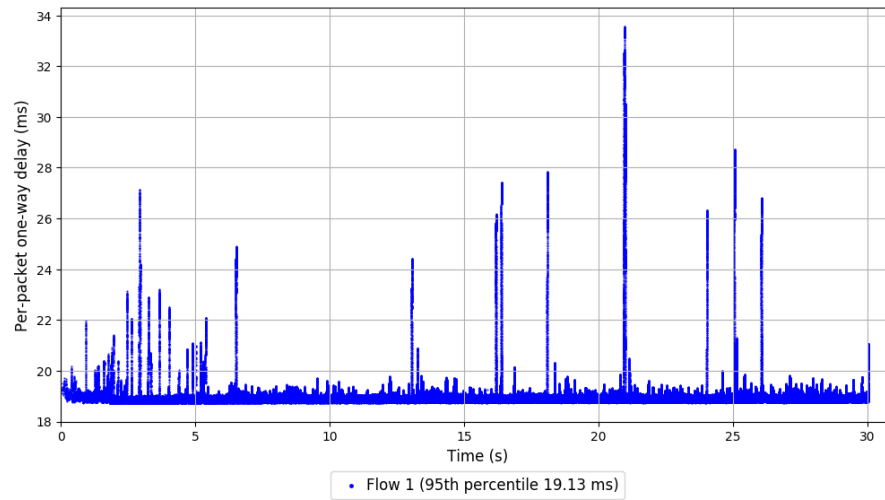
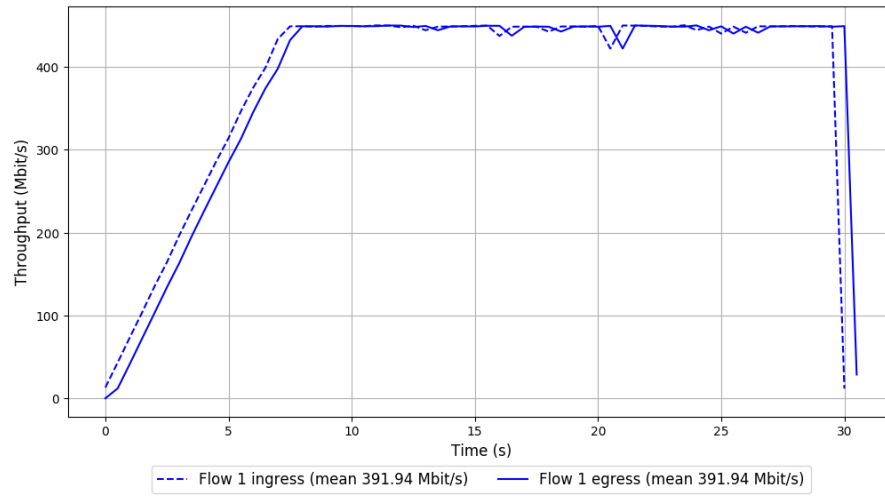
-- Flow 1:

Average throughput: 391.94 Mbit/s

95th percentile per-packet one-way delay: 19.132 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

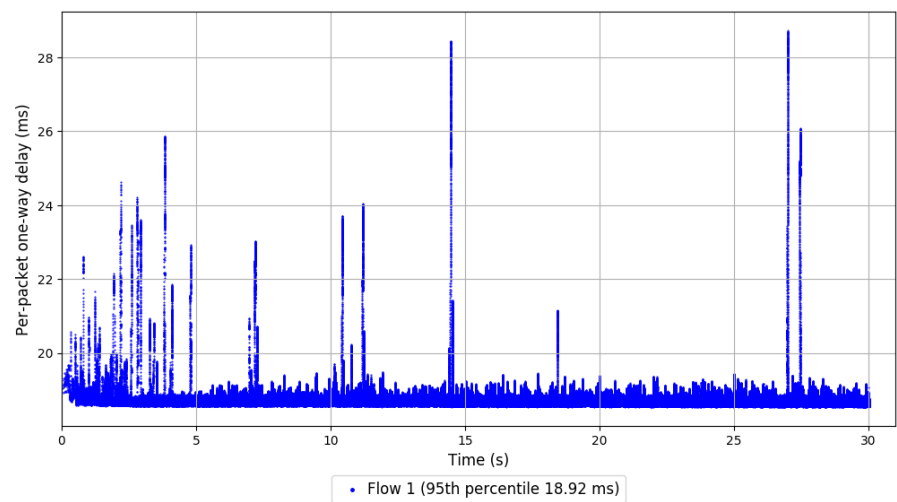
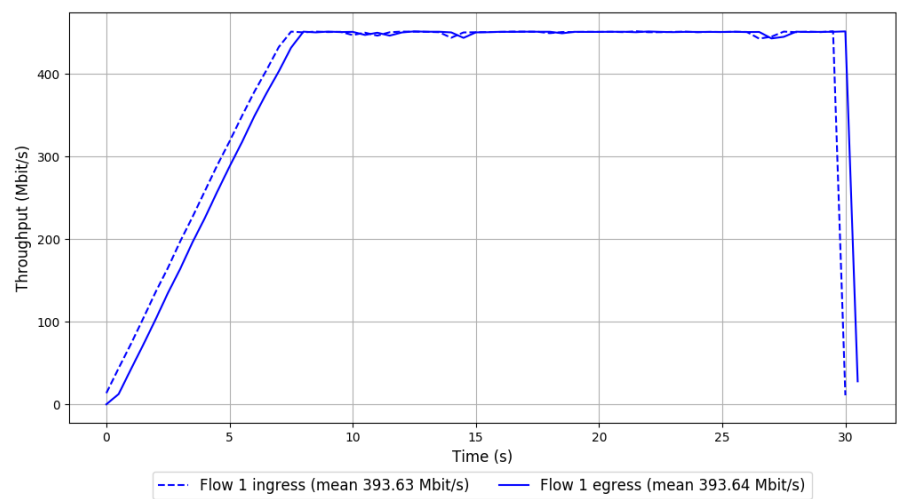


Run 4: Statistics of LEDBAT

Start at: 2018-07-03 11:51:49
End at: 2018-07-03 11:52:19
Local clock offset: 0.441 ms
Remote clock offset: -0.425 ms

Below is generated by plot.py at 2018-07-03 15:59:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 393.64 Mbit/s
95th percentile per-packet one-way delay: 18.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 393.64 Mbit/s
95th percentile per-packet one-way delay: 18.919 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

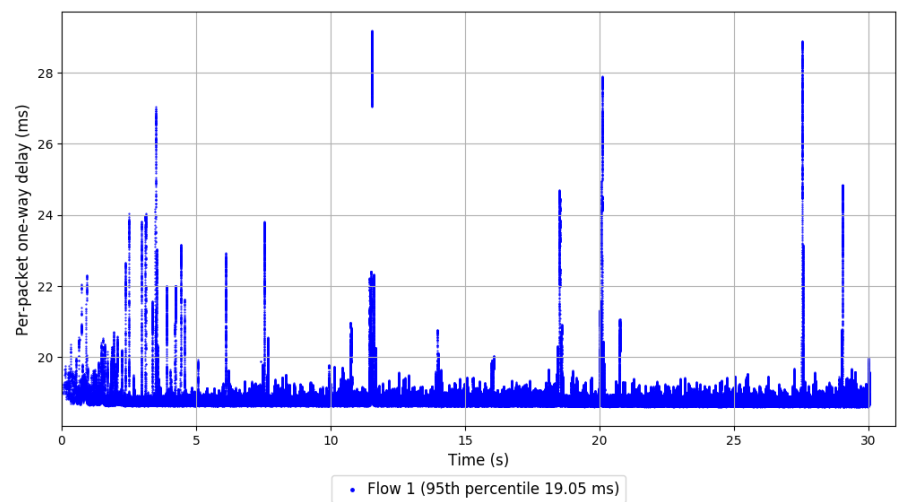
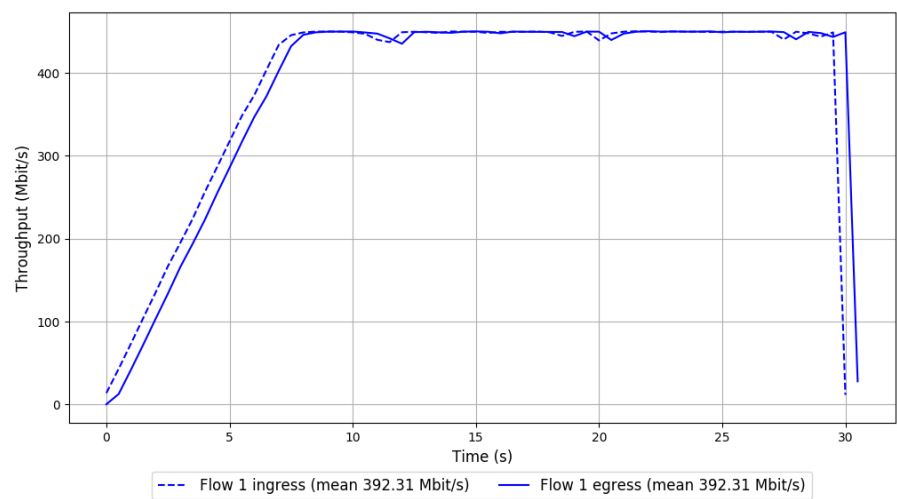


Run 5: Statistics of LEDBAT

Start at: 2018-07-03 12:17:32
End at: 2018-07-03 12:18:02
Local clock offset: -2.33 ms
Remote clock offset: -0.293 ms

Below is generated by plot.py at 2018-07-03 15:59:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 392.31 Mbit/s
95th percentile per-packet one-way delay: 19.053 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 392.31 Mbit/s
95th percentile per-packet one-way delay: 19.053 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

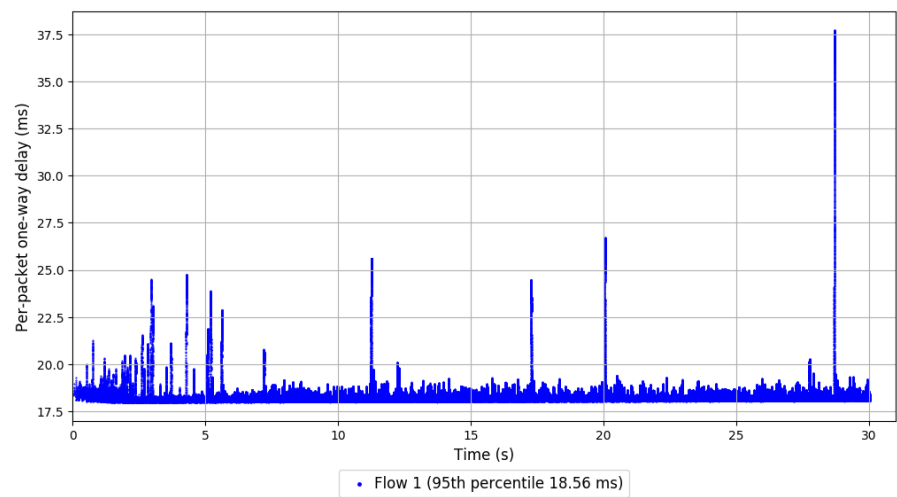
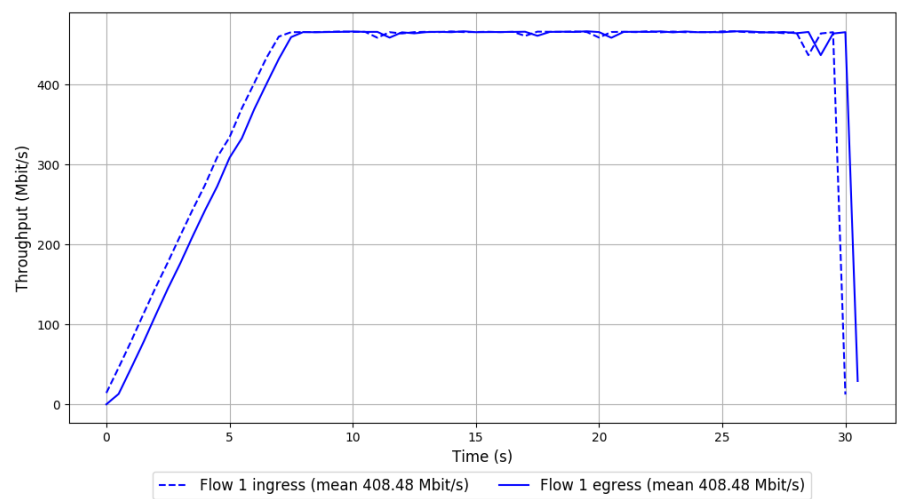


Run 6: Statistics of LEDBAT

Start at: 2018-07-03 12:43:19
End at: 2018-07-03 12:43:49
Local clock offset: -0.521 ms
Remote clock offset: -0.392 ms

Below is generated by plot.py at 2018-07-03 16:00:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 408.48 Mbit/s
95th percentile per-packet one-way delay: 18.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 408.48 Mbit/s
95th percentile per-packet one-way delay: 18.556 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-03 13:09:05

End at: 2018-07-03 13:09:35

Local clock offset: 0.752 ms

Remote clock offset: 2.67 ms

Below is generated by plot.py at 2018-07-03 16:01:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.42 Mbit/s

95th percentile per-packet one-way delay: 18.579 ms

Loss rate: 0.00%

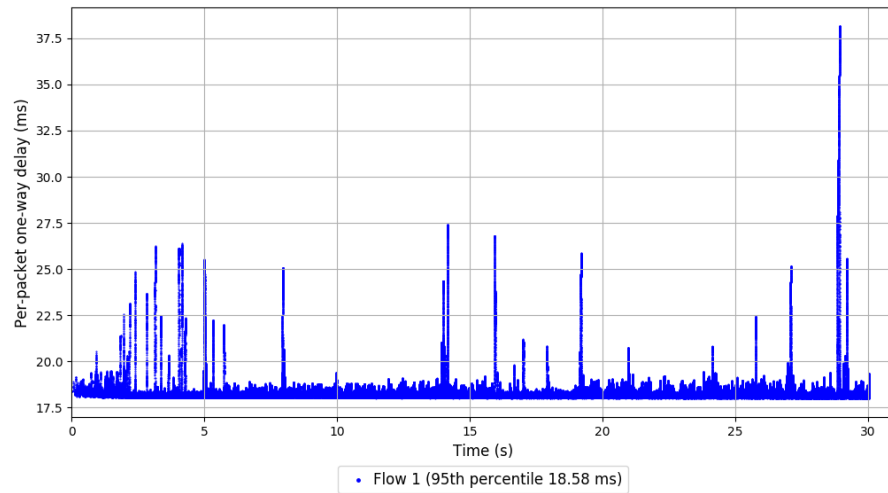
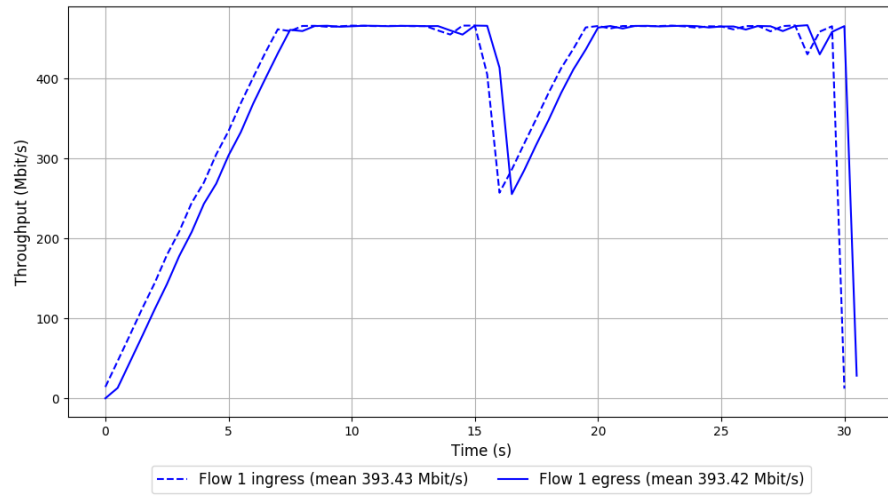
-- Flow 1:

Average throughput: 393.42 Mbit/s

95th percentile per-packet one-way delay: 18.579 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-03 13:34:50

End at: 2018-07-03 13:35:20

Local clock offset: 0.858 ms

Remote clock offset: 2.277 ms

Below is generated by plot.py at 2018-07-03 16:01:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.06 Mbit/s

95th percentile per-packet one-way delay: 18.262 ms

Loss rate: 0.00%

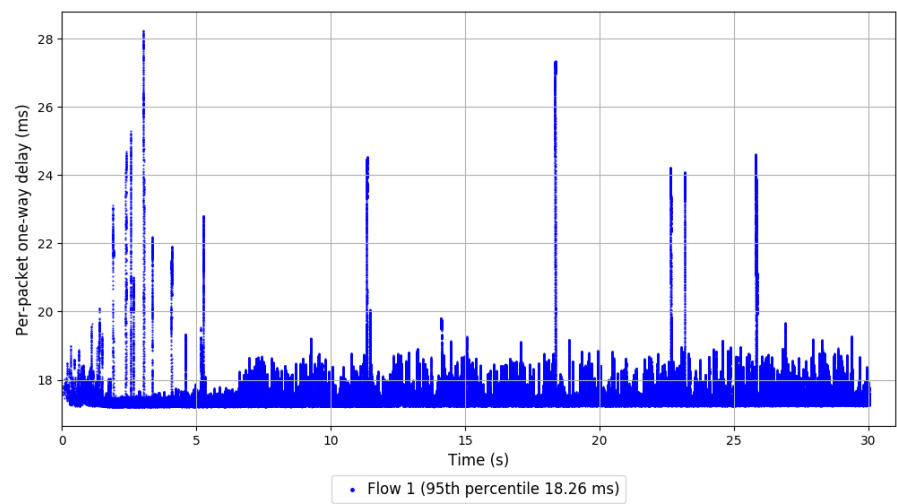
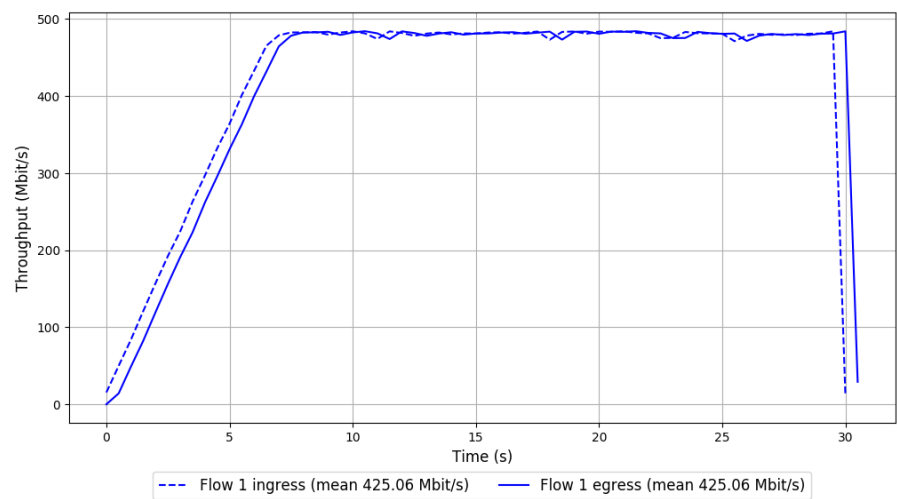
-- Flow 1:

Average throughput: 425.06 Mbit/s

95th percentile per-packet one-way delay: 18.262 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-03 14:00:28

End at: 2018-07-03 14:00:58

Local clock offset: 0.472 ms

Remote clock offset: 1.218 ms

Below is generated by plot.py at 2018-07-03 16:02:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.07 Mbit/s

95th percentile per-packet one-way delay: 18.567 ms

Loss rate: 0.00%

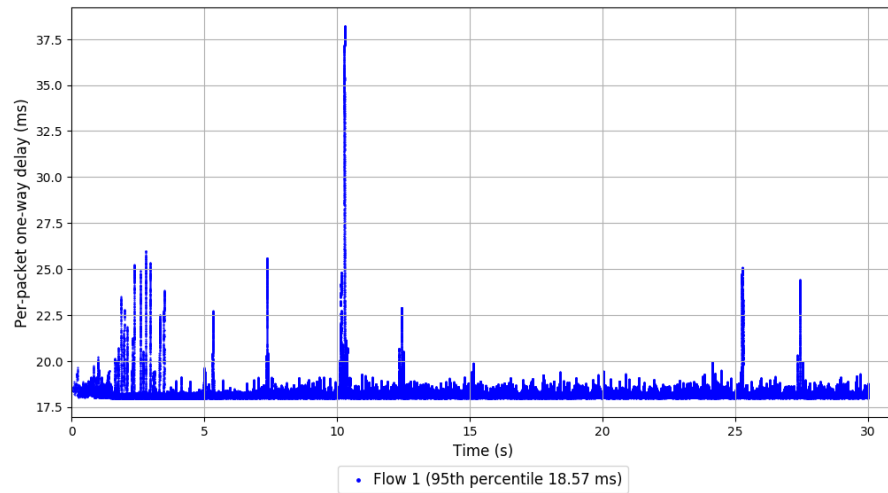
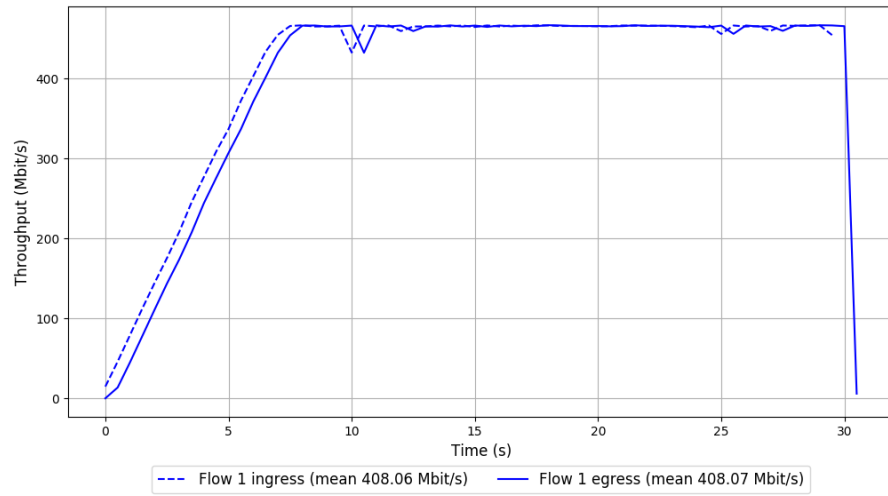
-- Flow 1:

Average throughput: 408.07 Mbit/s

95th percentile per-packet one-way delay: 18.567 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-03 14:26:22

End at: 2018-07-03 14:26:52

Local clock offset: 0.745 ms

Remote clock offset: -0.387 ms

Below is generated by plot.py at 2018-07-03 16:02:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.33 Mbit/s

95th percentile per-packet one-way delay: 19.148 ms

Loss rate: 0.00%

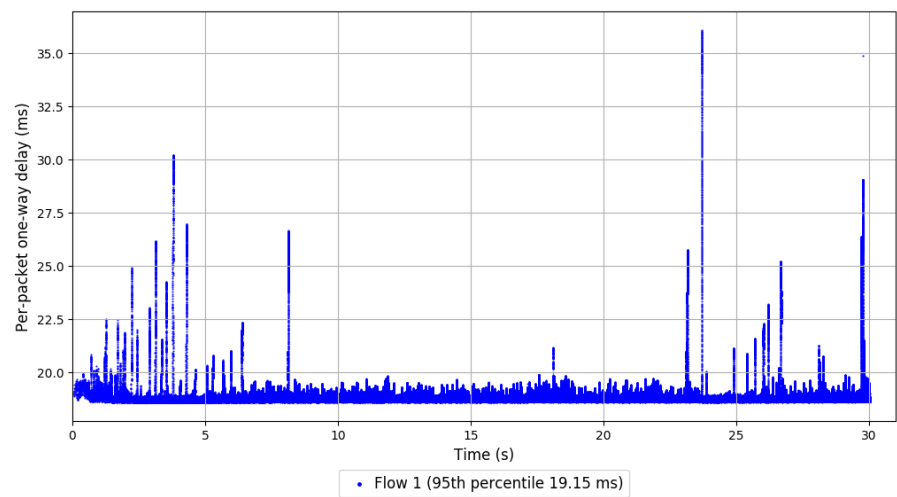
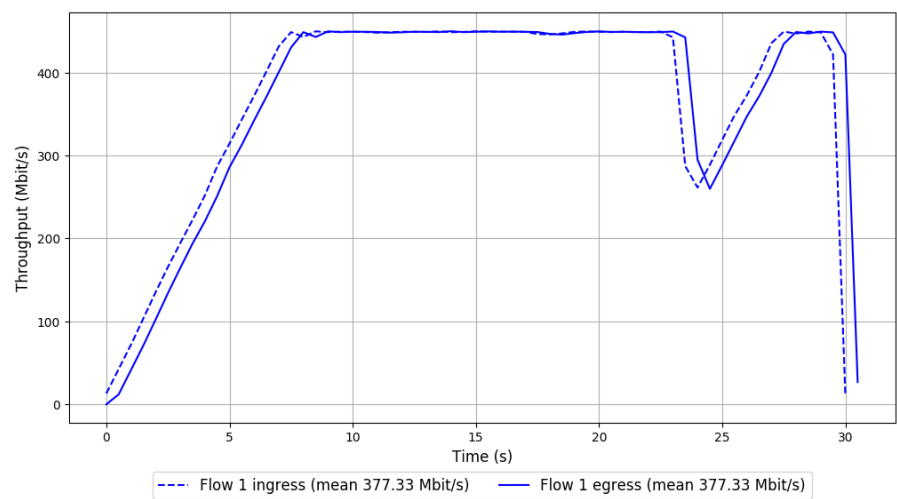
-- Flow 1:

Average throughput: 377.33 Mbit/s

95th percentile per-packet one-way delay: 19.148 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-03 10:29:27

End at: 2018-07-03 10:29:57

Local clock offset: 4.265 ms

Remote clock offset: 3.176 ms

Below is generated by plot.py at 2018-07-03 16:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 882.52 Mbit/s

95th percentile per-packet one-way delay: 58.753 ms

Loss rate: 0.25%

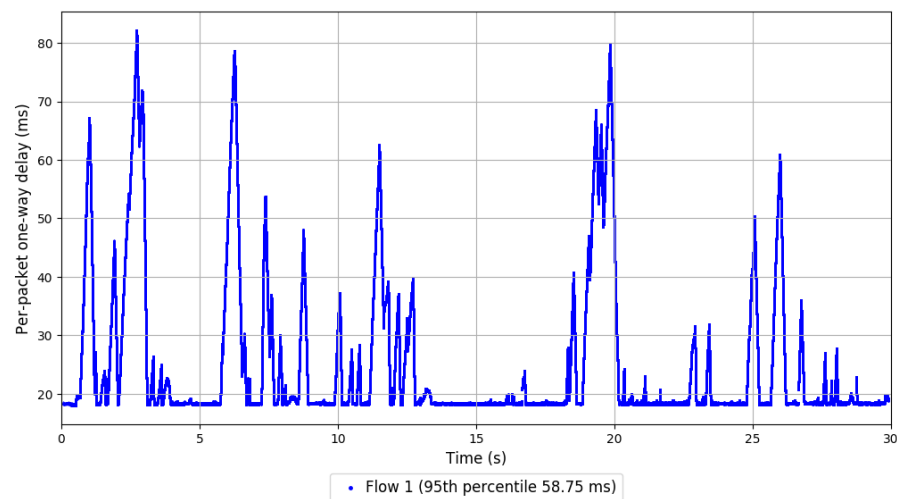
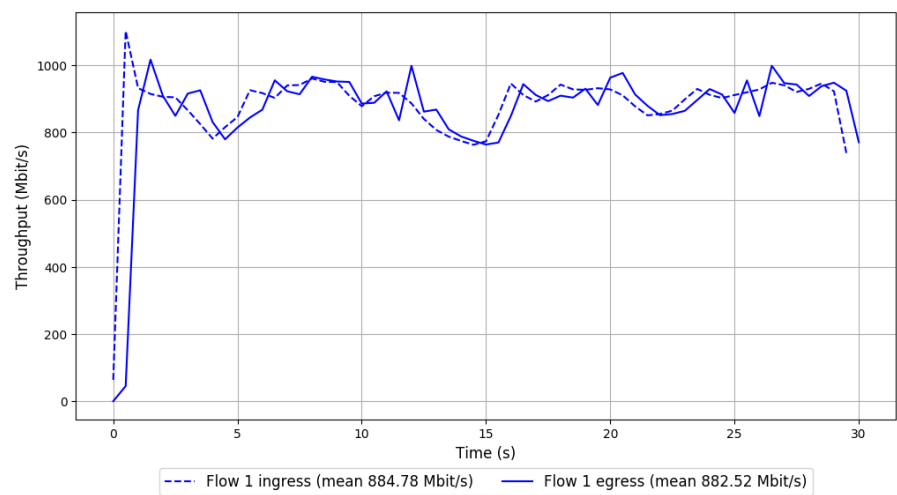
-- Flow 1:

Average throughput: 882.52 Mbit/s

95th percentile per-packet one-way delay: 58.753 ms

Loss rate: 0.25%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-03 10:55:11

End at: 2018-07-03 10:55:41

Local clock offset: 5.372 ms

Remote clock offset: 3.062 ms

Below is generated by plot.py at 2018-07-03 16:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.33 Mbit/s

95th percentile per-packet one-way delay: 24.970 ms

Loss rate: 0.31%

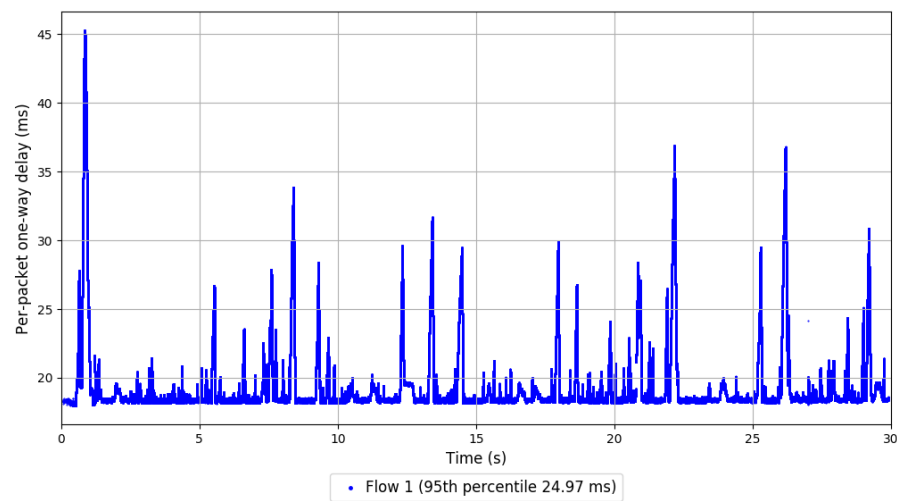
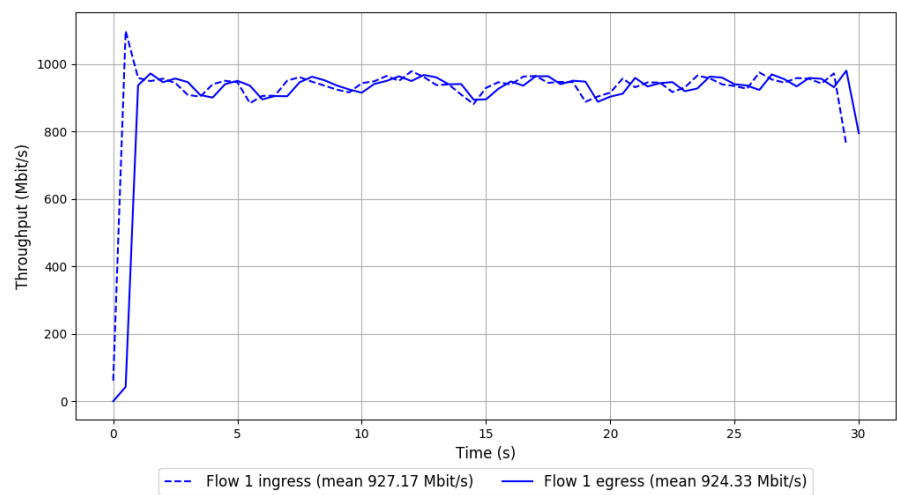
-- Flow 1:

Average throughput: 924.33 Mbit/s

95th percentile per-packet one-way delay: 24.970 ms

Loss rate: 0.31%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-03 11:21:02

End at: 2018-07-03 11:21:32

Local clock offset: 1.508 ms

Remote clock offset: 0.745 ms

Below is generated by plot.py at 2018-07-03 16:10:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 912.83 Mbit/s

95th percentile per-packet one-way delay: 24.235 ms

Loss rate: 0.35%

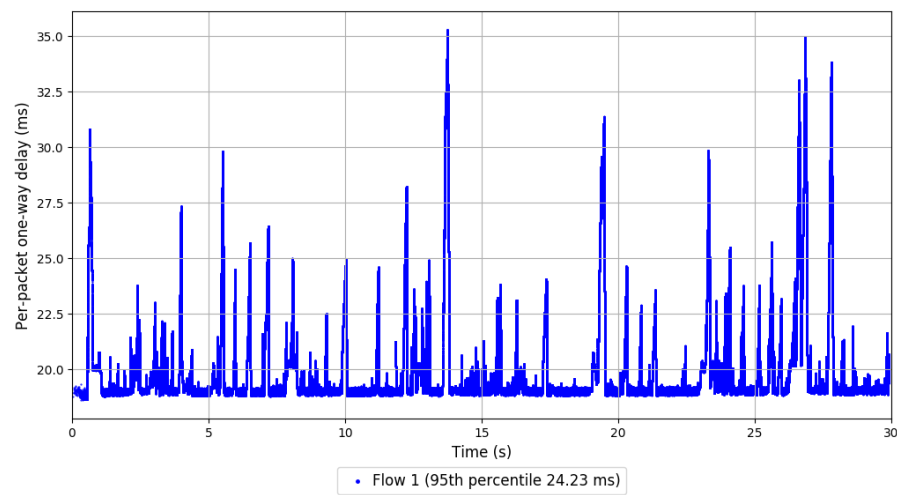
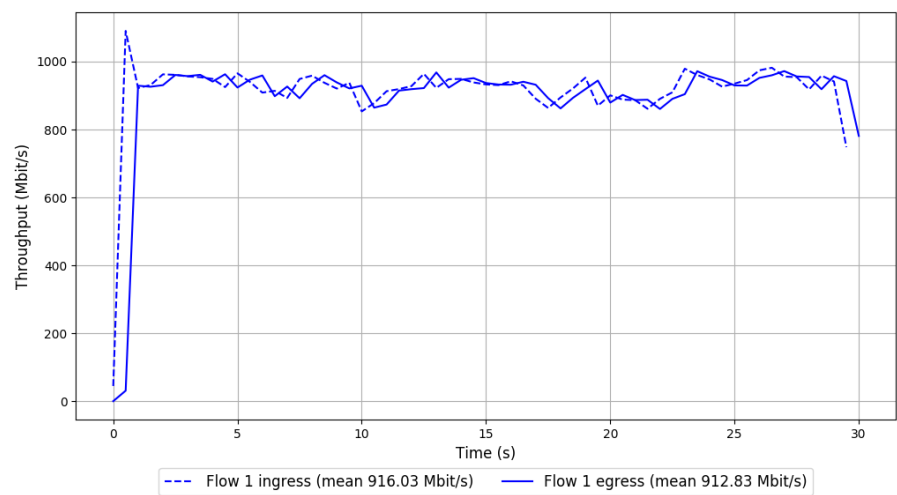
-- Flow 1:

Average throughput: 912.83 Mbit/s

95th percentile per-packet one-way delay: 24.235 ms

Loss rate: 0.35%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-03 11:46:59

End at: 2018-07-03 11:47:29

Local clock offset: 0.433 ms

Remote clock offset: -0.811 ms

Below is generated by plot.py at 2018-07-03 16:11:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.74 Mbit/s

95th percentile per-packet one-way delay: 22.608 ms

Loss rate: 0.17%

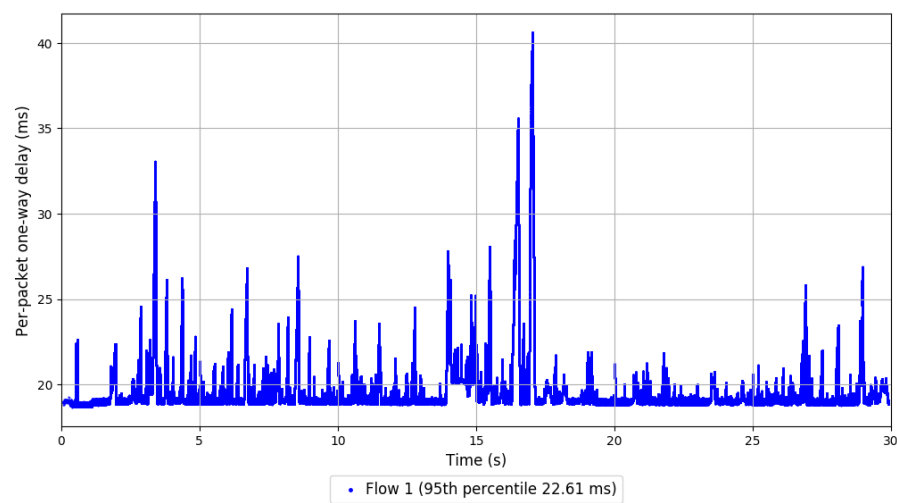
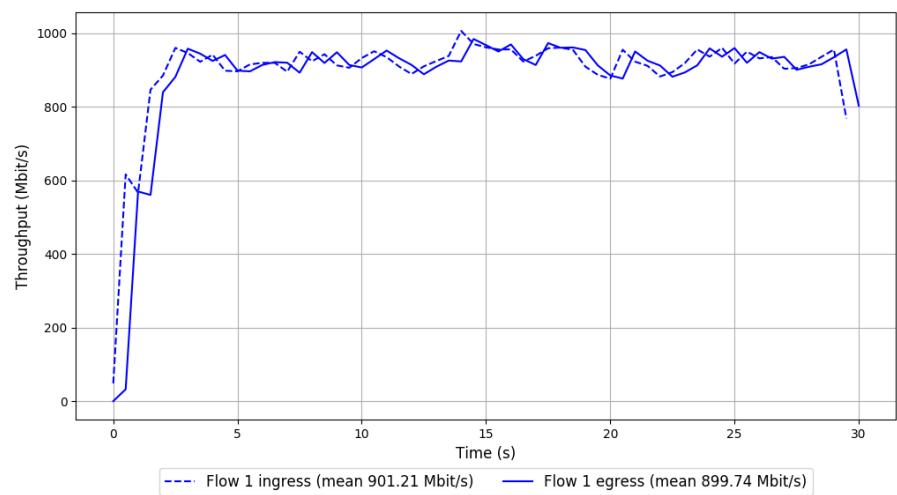
-- Flow 1:

Average throughput: 899.74 Mbit/s

95th percentile per-packet one-way delay: 22.608 ms

Loss rate: 0.17%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-03 12:12:45

End at: 2018-07-03 12:13:15

Local clock offset: -1.801 ms

Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-07-03 16:12:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.84 Mbit/s

95th percentile per-packet one-way delay: 22.845 ms

Loss rate: 0.59%

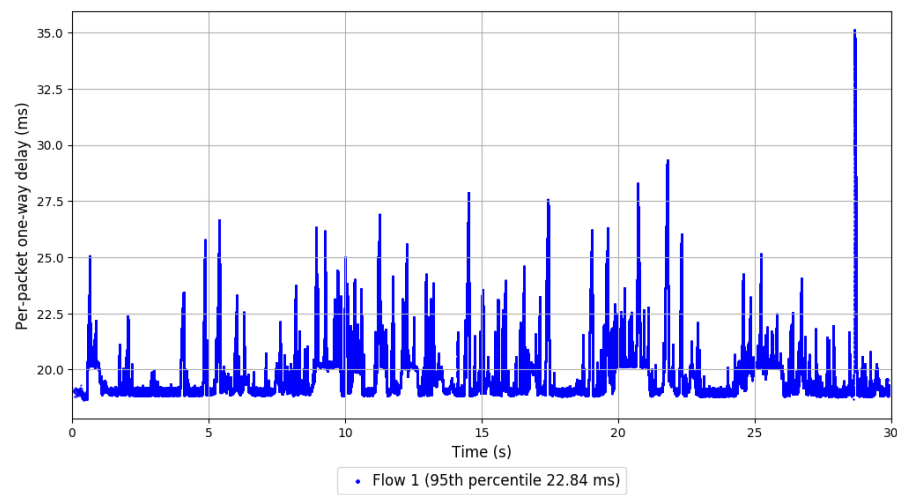
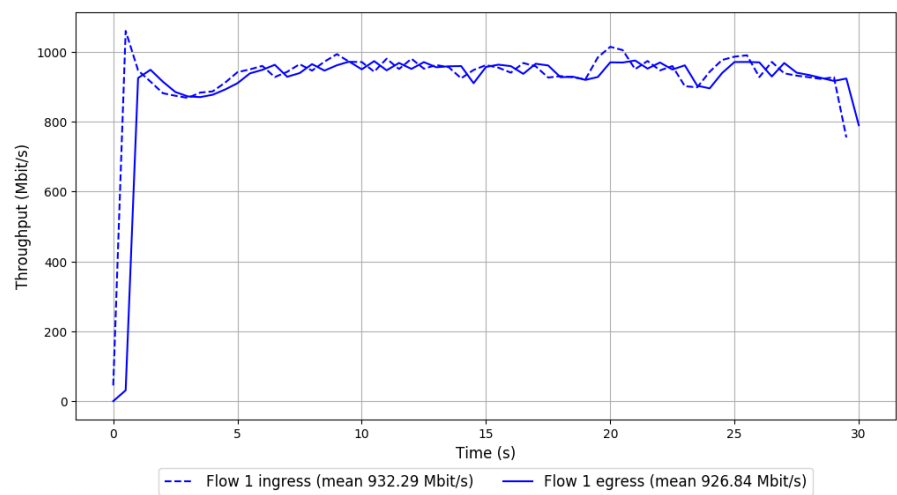
-- Flow 1:

Average throughput: 926.84 Mbit/s

95th percentile per-packet one-way delay: 22.845 ms

Loss rate: 0.59%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-03 12:38:32

End at: 2018-07-03 12:39:02

Local clock offset: -1.651 ms

Remote clock offset: -0.319 ms

Below is generated by plot.py at 2018-07-03 16:13:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.16 Mbit/s

95th percentile per-packet one-way delay: 31.268 ms

Loss rate: 0.48%

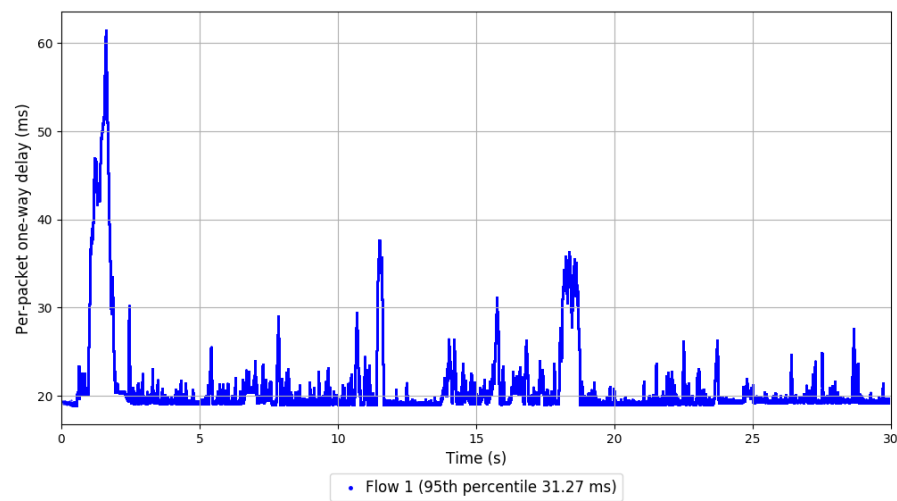
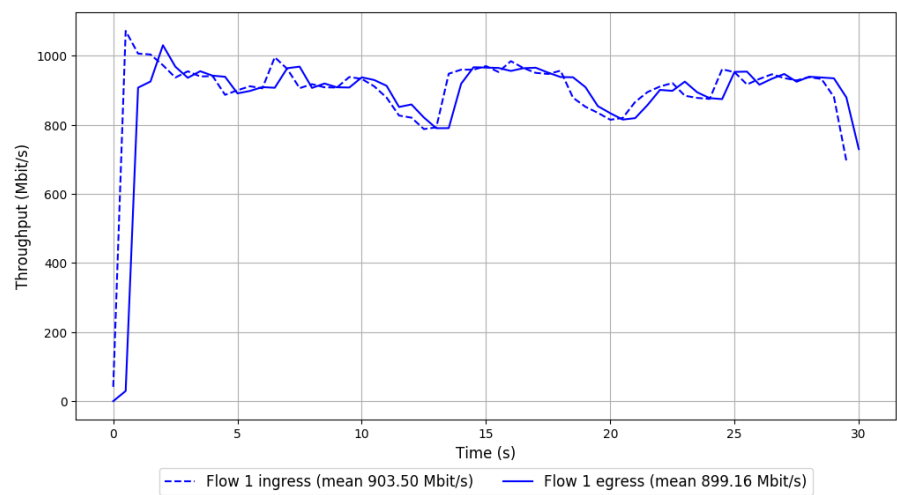
-- Flow 1:

Average throughput: 899.16 Mbit/s

95th percentile per-packet one-way delay: 31.268 ms

Loss rate: 0.48%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-03 13:04:16

End at: 2018-07-03 13:04:46

Local clock offset: 0.994 ms

Remote clock offset: 2.013 ms

Below is generated by plot.py at 2018-07-03 16:13:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 909.06 Mbit/s

95th percentile per-packet one-way delay: 26.814 ms

Loss rate: 0.39%

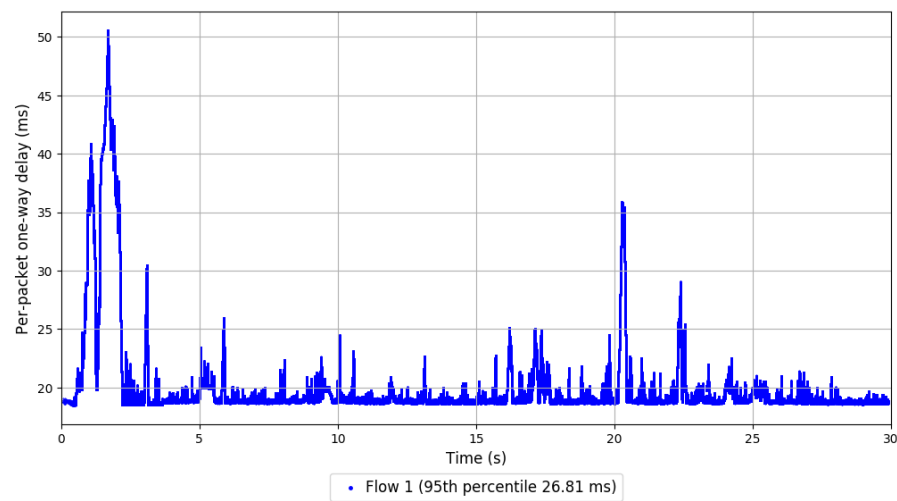
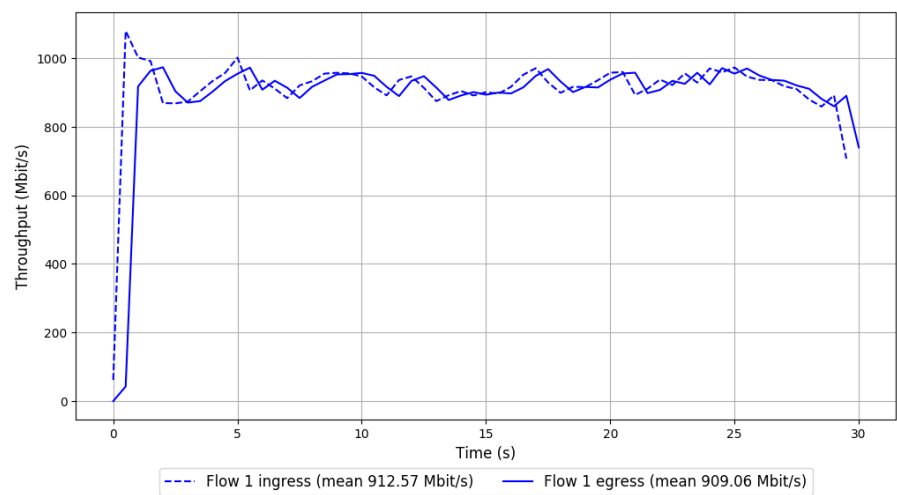
-- Flow 1:

Average throughput: 909.06 Mbit/s

95th percentile per-packet one-way delay: 26.814 ms

Loss rate: 0.39%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-03 13:30:05

End at: 2018-07-03 13:30:35

Local clock offset: 0.902 ms

Remote clock offset: 2.965 ms

Below is generated by plot.py at 2018-07-03 16:14:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 923.28 Mbit/s

95th percentile per-packet one-way delay: 23.989 ms

Loss rate: 0.42%

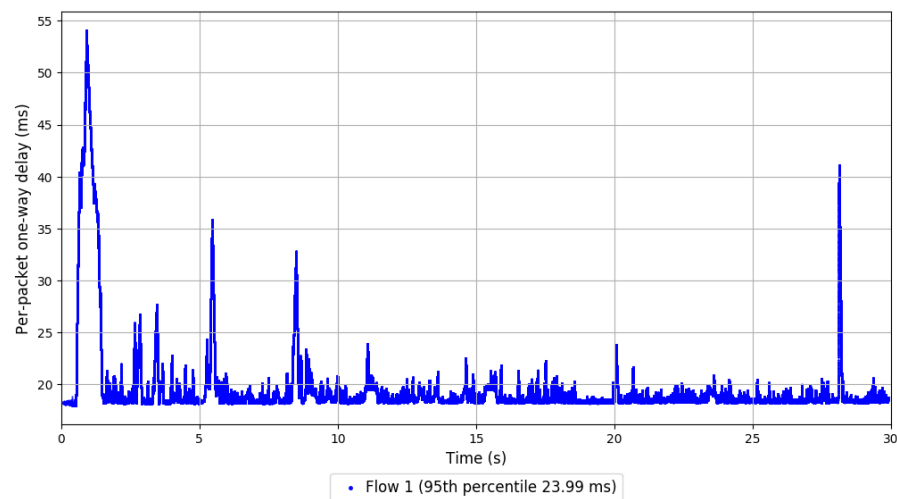
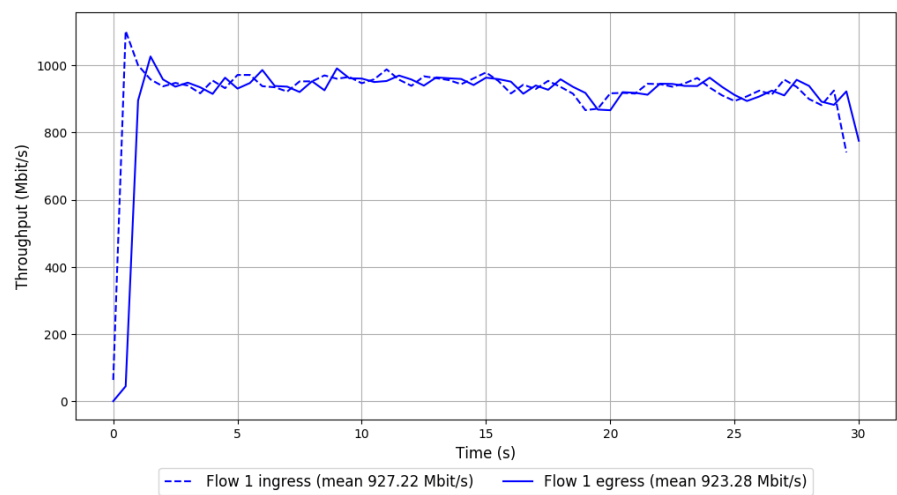
-- Flow 1:

Average throughput: 923.28 Mbit/s

95th percentile per-packet one-way delay: 23.989 ms

Loss rate: 0.42%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-03 13:55:40

End at: 2018-07-03 13:56:10

Local clock offset: 0.532 ms

Remote clock offset: 1.234 ms

Below is generated by plot.py at 2018-07-03 16:20:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 905.85 Mbit/s

95th percentile per-packet one-way delay: 19.708 ms

Loss rate: 0.33%

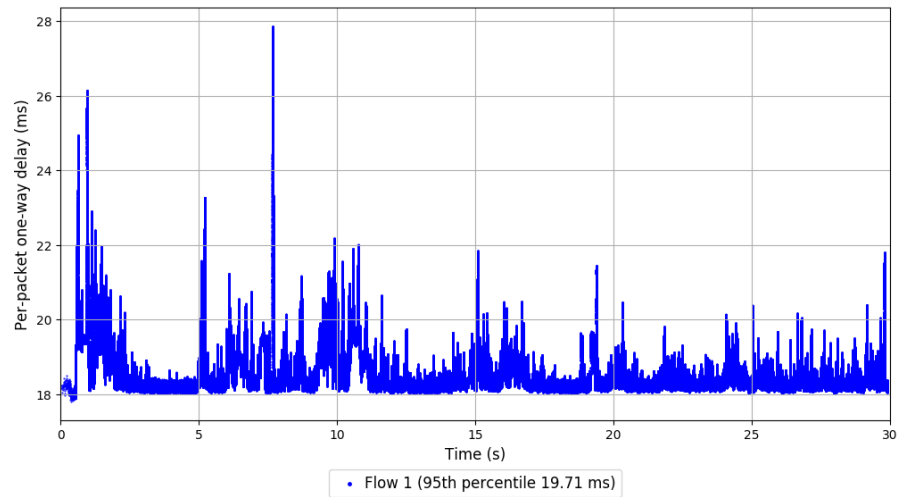
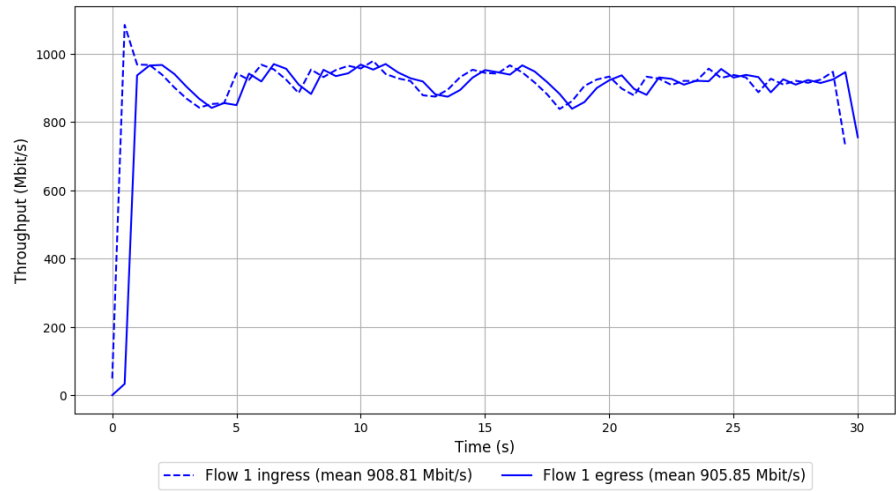
-- Flow 1:

Average throughput: 905.85 Mbit/s

95th percentile per-packet one-way delay: 19.708 ms

Loss rate: 0.33%

Run 9: Report of PCC-Allegro — Data Link

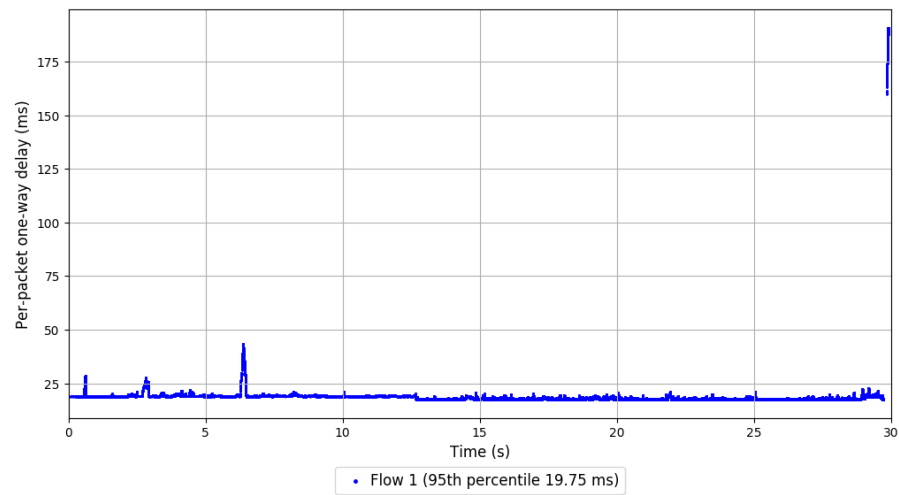
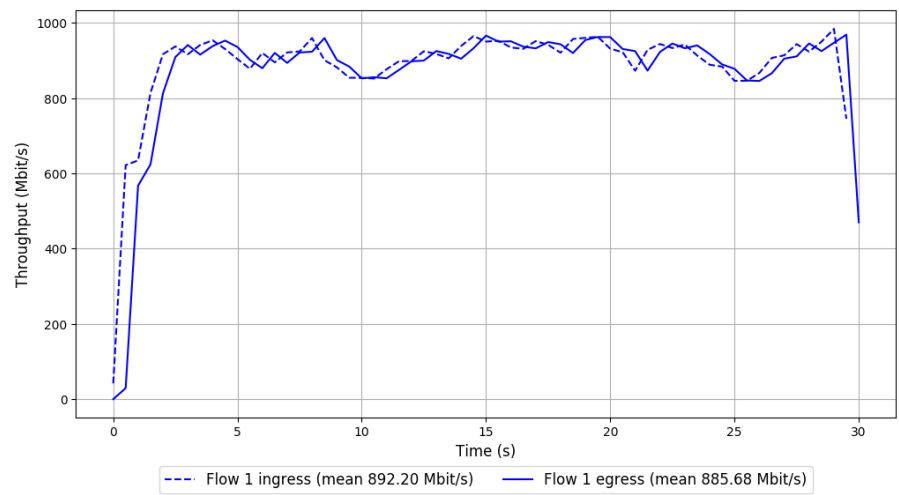


Run 10: Statistics of PCC-Allegro

Start at: 2018-07-03 14:21:32
End at: 2018-07-03 14:22:02
Local clock offset: 0.712 ms
Remote clock offset: -0.212 ms

Below is generated by plot.py at 2018-07-03 16:21:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 885.68 Mbit/s
95th percentile per-packet one-way delay: 19.750 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 885.68 Mbit/s
95th percentile per-packet one-way delay: 19.750 ms
Loss rate: 0.73%

Run 10: Report of PCC-Allegro — Data Link

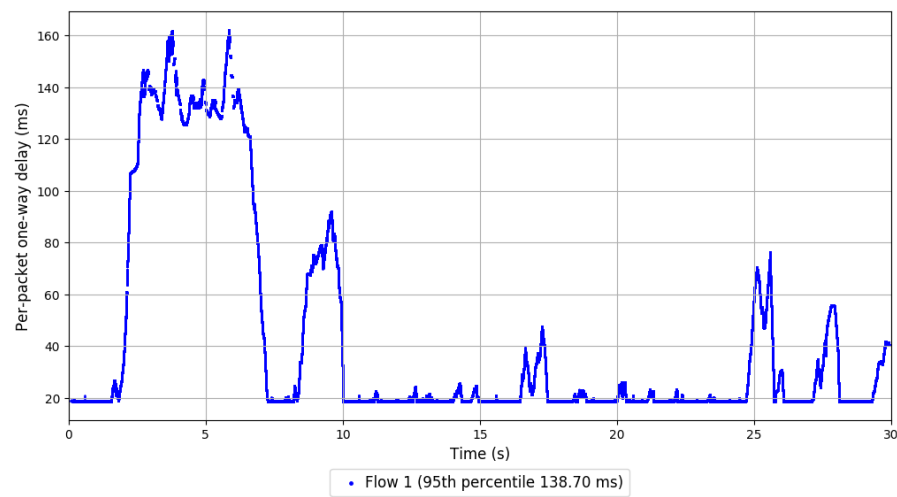
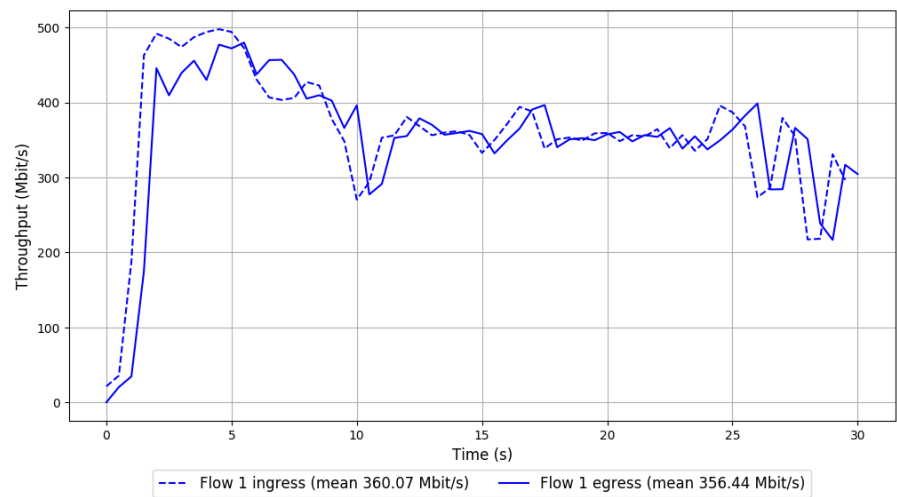


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-03 10:35:51
End at: 2018-07-03 10:36:21
Local clock offset: 4.517 ms
Remote clock offset: 3.299 ms

# Below is generated by plot.py at 2018-07-03 16:21:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 356.44 Mbit/s
95th percentile per-packet one-way delay: 138.702 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 356.44 Mbit/s
95th percentile per-packet one-way delay: 138.702 ms
Loss rate: 1.01%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-03 11:01:37

End at: 2018-07-03 11:02:07

Local clock offset: 5.856 ms

Remote clock offset: 3.207 ms

Below is generated by plot.py at 2018-07-03 16:21:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.13 Mbit/s

95th percentile per-packet one-way delay: 184.442 ms

Loss rate: 23.84%

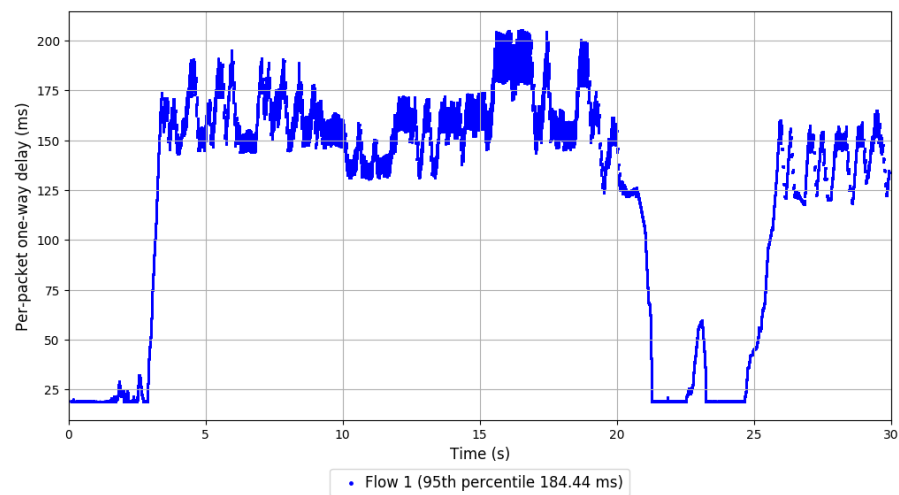
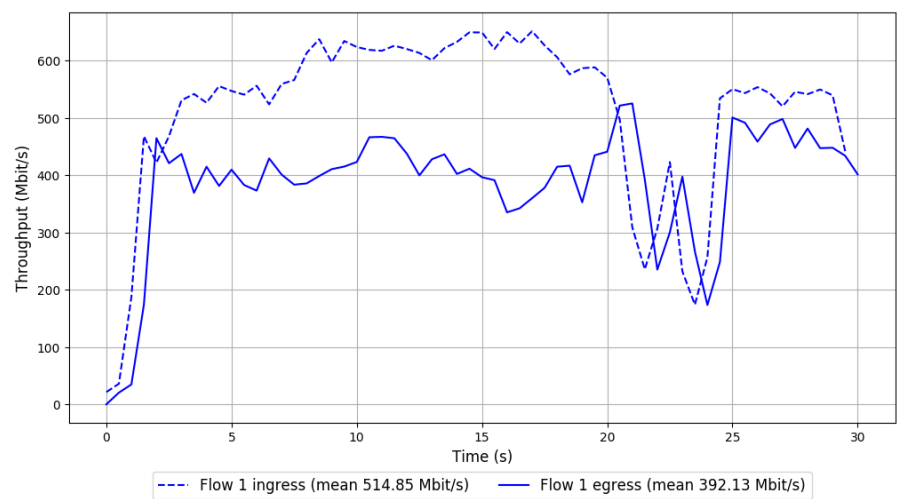
-- Flow 1:

Average throughput: 392.13 Mbit/s

95th percentile per-packet one-way delay: 184.442 ms

Loss rate: 23.84%

Run 2: Report of PCC-Expr — Data Link

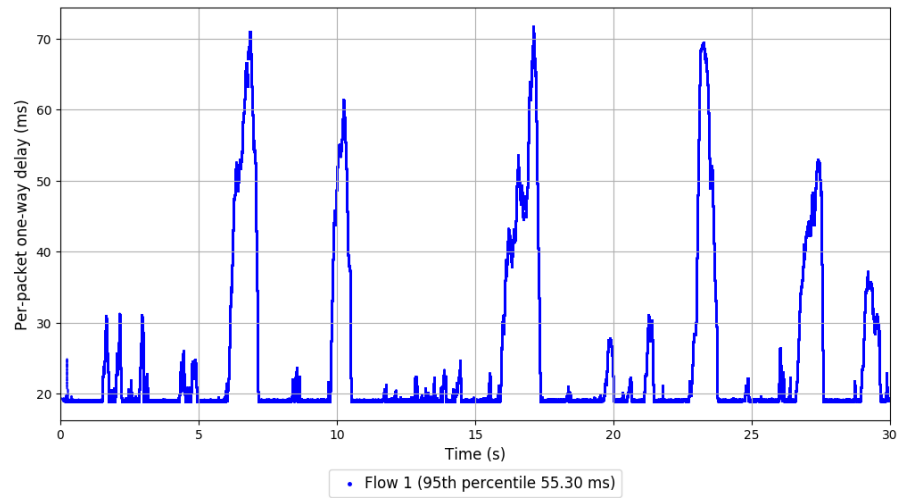
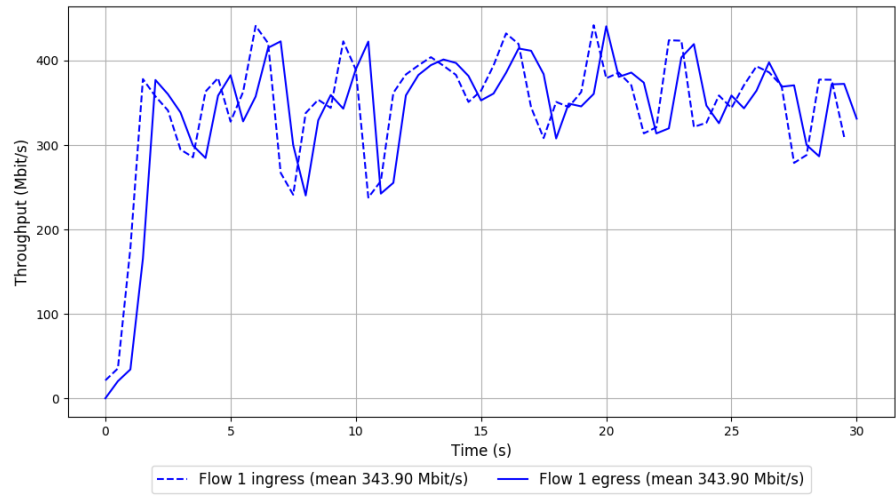


Run 3: Statistics of PCC-Expr

Start at: 2018-07-03 11:27:30
End at: 2018-07-03 11:28:00
Local clock offset: 1.192 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-07-03 16:21:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 343.90 Mbit/s
95th percentile per-packet one-way delay: 55.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 343.90 Mbit/s
95th percentile per-packet one-way delay: 55.299 ms
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-03 11:53:24

End at: 2018-07-03 11:53:54

Local clock offset: 0.448 ms

Remote clock offset: -0.345 ms

Below is generated by plot.py at 2018-07-03 16:21:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.22 Mbit/s

95th percentile per-packet one-way delay: 151.229 ms

Loss rate: 1.02%

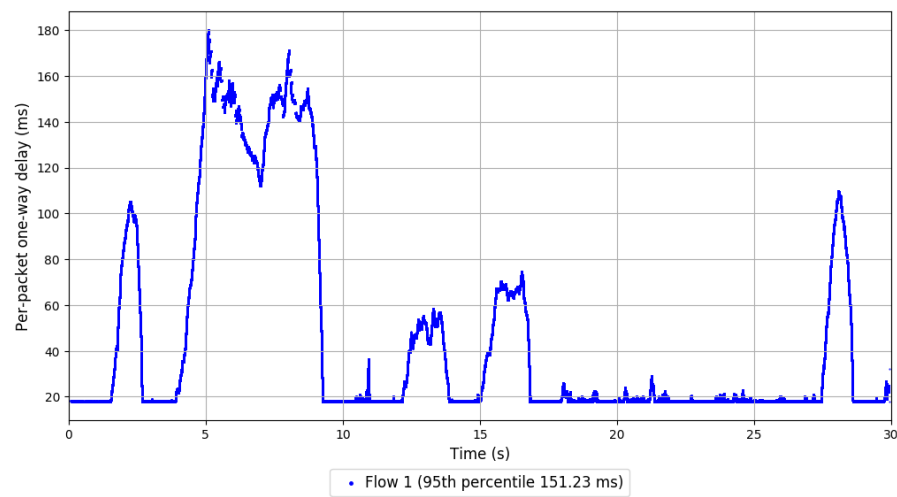
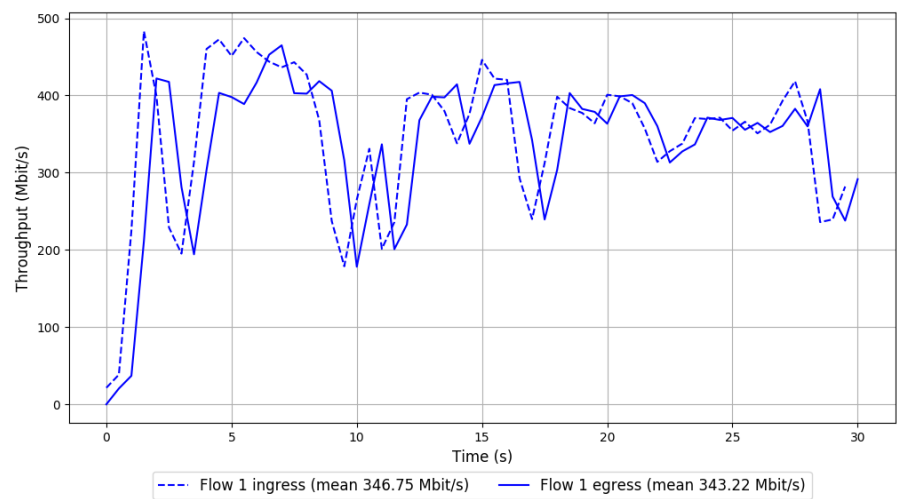
-- Flow 1:

Average throughput: 343.22 Mbit/s

95th percentile per-packet one-way delay: 151.229 ms

Loss rate: 1.02%

Run 4: Report of PCC-Expr — Data Link

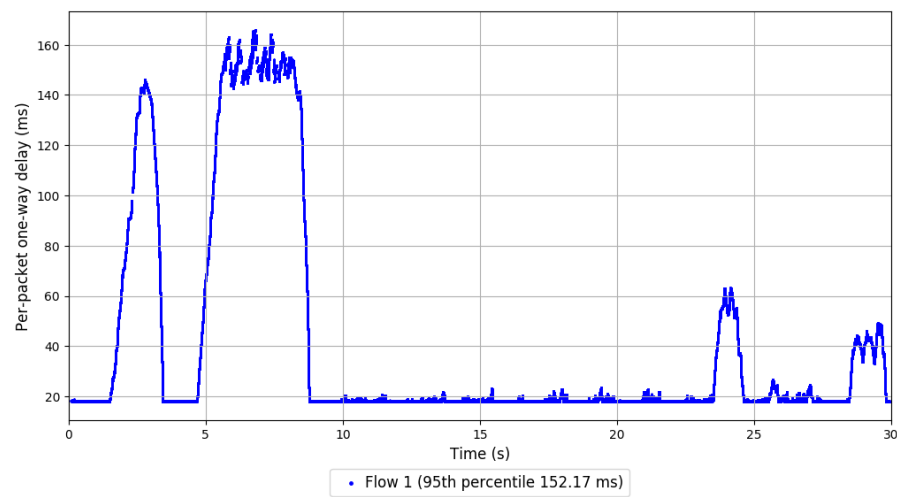
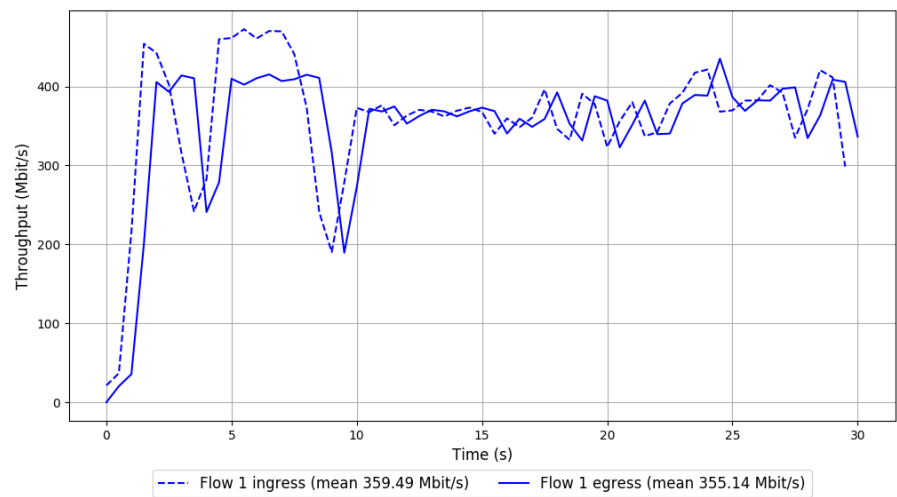


Run 5: Statistics of PCC-Expr

Start at: 2018-07-03 12:19:06
End at: 2018-07-03 12:19:36
Local clock offset: -2.527 ms
Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-07-03 16:22:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 355.14 Mbit/s
95th percentile per-packet one-way delay: 152.168 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 355.14 Mbit/s
95th percentile per-packet one-way delay: 152.168 ms
Loss rate: 1.21%

Run 5: Report of PCC-Expr — Data Link

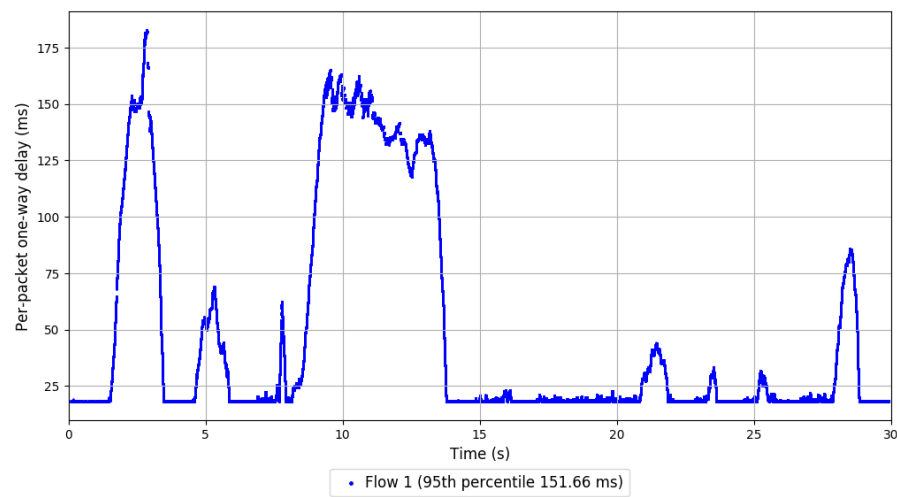
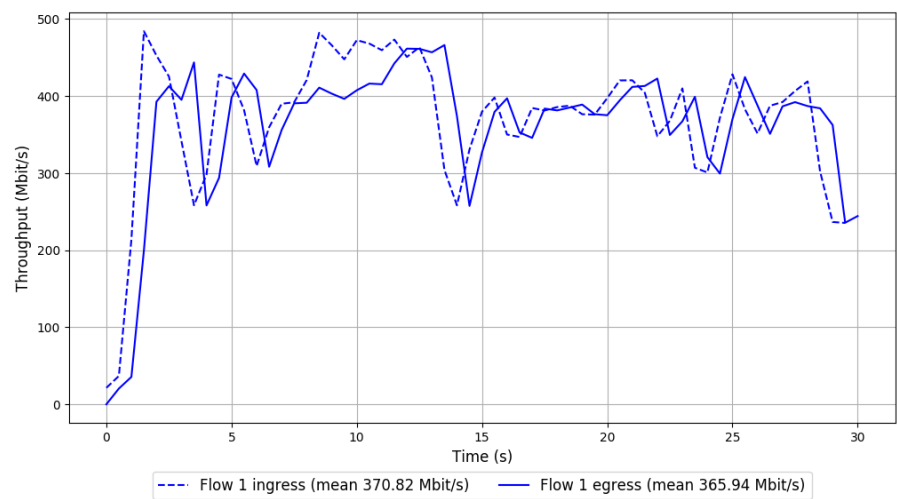


Run 6: Statistics of PCC-Expr

Start at: 2018-07-03 12:44:54
End at: 2018-07-03 12:45:24
Local clock offset: -0.268 ms
Remote clock offset: -0.332 ms

Below is generated by plot.py at 2018-07-03 16:22:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 365.94 Mbit/s
95th percentile per-packet one-way delay: 151.658 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 365.94 Mbit/s
95th percentile per-packet one-way delay: 151.658 ms
Loss rate: 1.32%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-03 13:10:39

End at: 2018-07-03 13:11:09

Local clock offset: 0.827 ms

Remote clock offset: 2.719 ms

Below is generated by plot.py at 2018-07-03 16:27:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.26 Mbit/s

95th percentile per-packet one-way delay: 52.790 ms

Loss rate: 0.00%

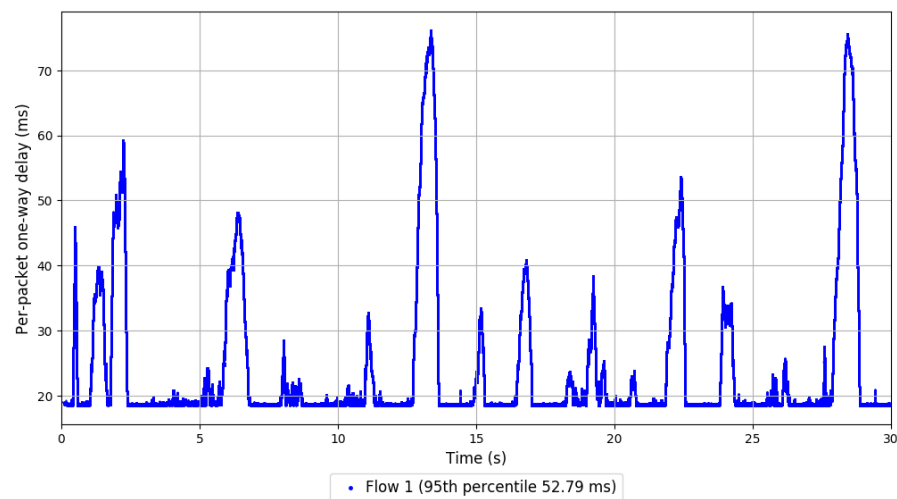
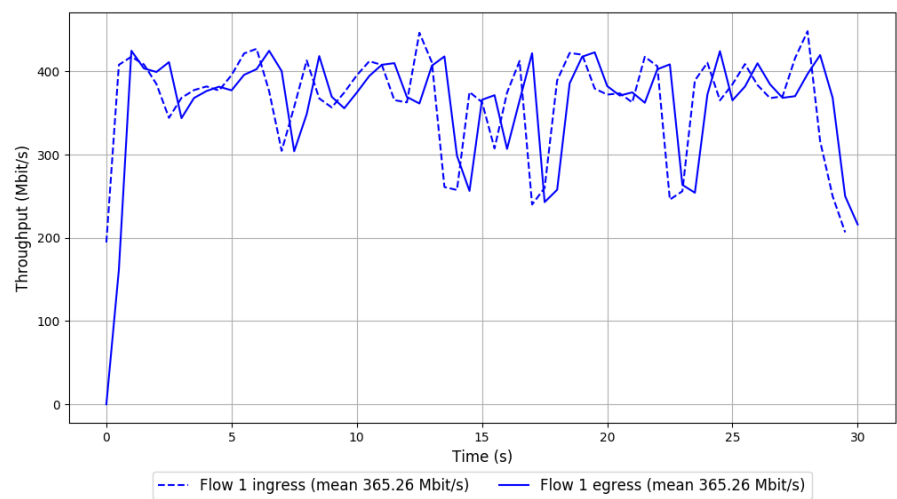
-- Flow 1:

Average throughput: 365.26 Mbit/s

95th percentile per-packet one-way delay: 52.790 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-03 13:36:26

End at: 2018-07-03 13:36:56

Local clock offset: 0.789 ms

Remote clock offset: 2.062 ms

Below is generated by plot.py at 2018-07-03 16:28:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.90 Mbit/s

95th percentile per-packet one-way delay: 136.935 ms

Loss rate: 0.18%

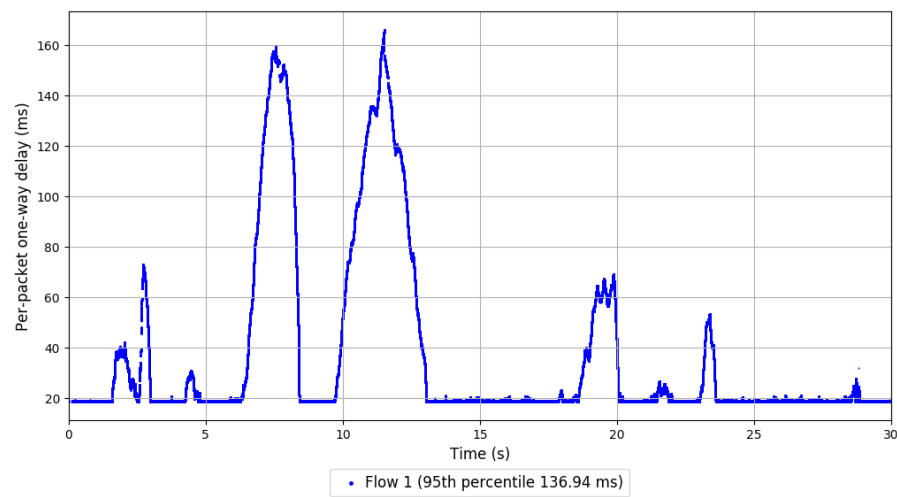
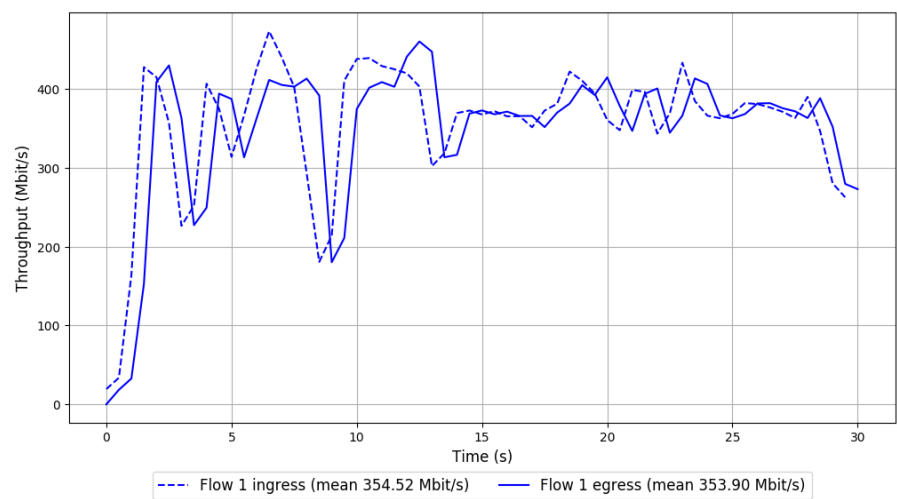
-- Flow 1:

Average throughput: 353.90 Mbit/s

95th percentile per-packet one-way delay: 136.935 ms

Loss rate: 0.18%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-03 14:02:03

End at: 2018-07-03 14:02:33

Local clock offset: 0.565 ms

Remote clock offset: 1.227 ms

Below is generated by plot.py at 2018-07-03 16:29:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.75 Mbit/s

95th percentile per-packet one-way delay: 44.214 ms

Loss rate: 0.01%

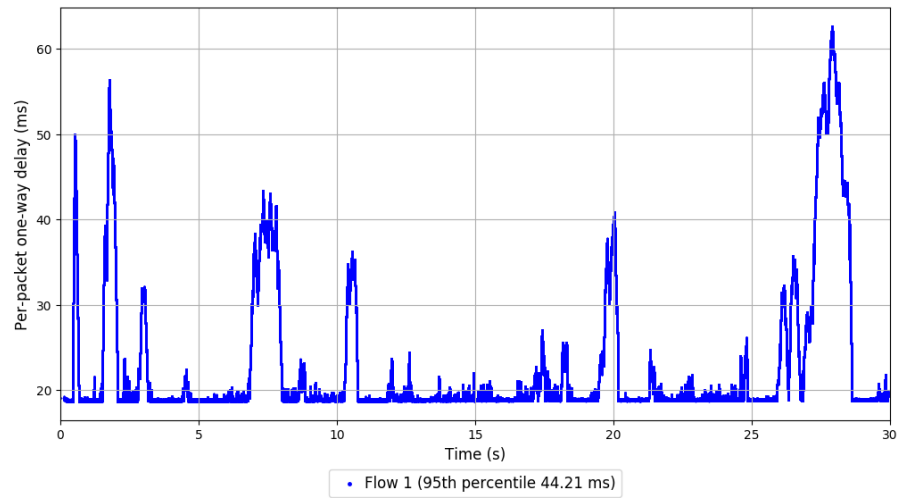
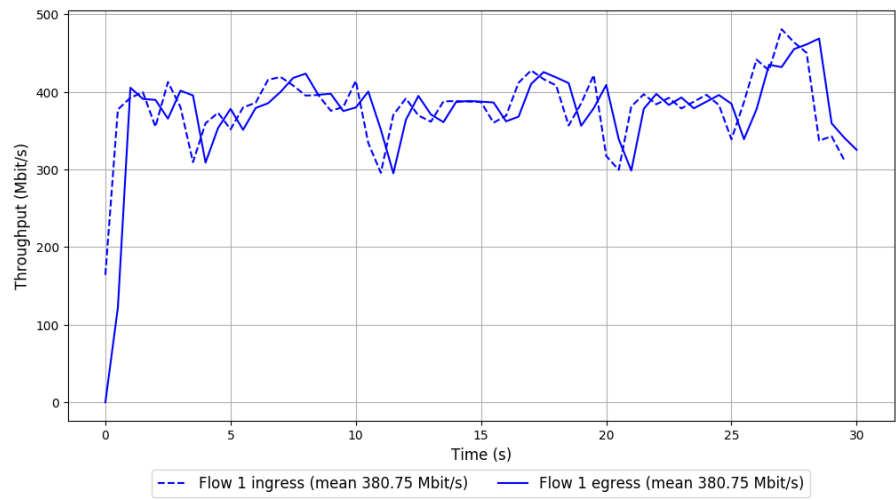
-- Flow 1:

Average throughput: 380.75 Mbit/s

95th percentile per-packet one-way delay: 44.214 ms

Loss rate: 0.01%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-03 14:27:56

End at: 2018-07-03 14:28:26

Local clock offset: 0.764 ms

Remote clock offset: -0.414 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.34 Mbit/s

95th percentile per-packet one-way delay: 117.576 ms

Loss rate: 0.04%

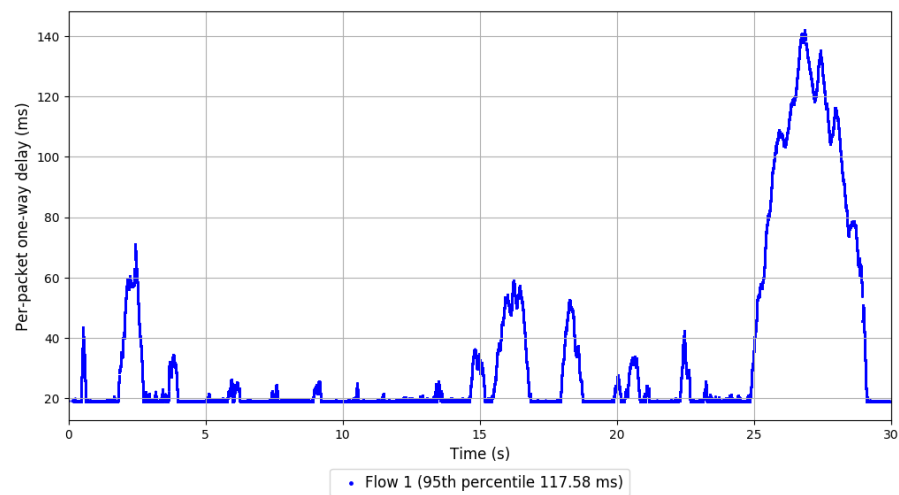
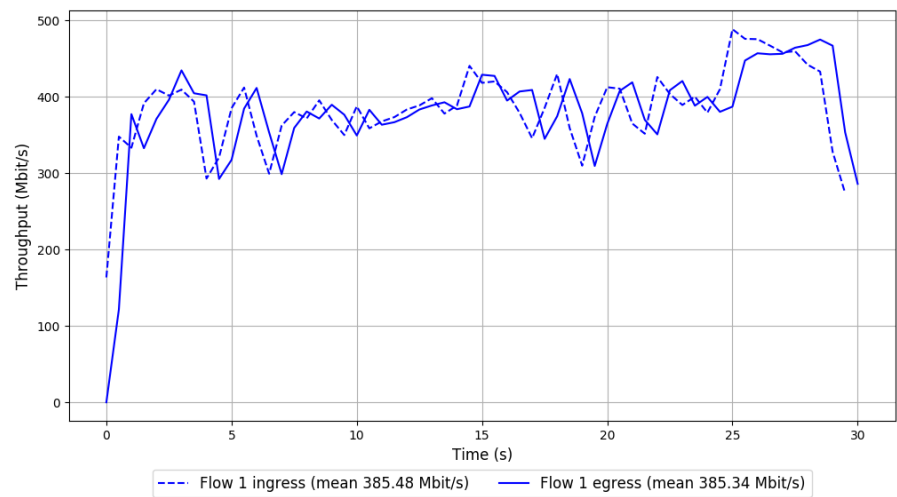
-- Flow 1:

Average throughput: 385.34 Mbit/s

95th percentile per-packet one-way delay: 117.576 ms

Loss rate: 0.04%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-03 10:23:24

End at: 2018-07-03 10:23:54

Local clock offset: 3.837 ms

Remote clock offset: 3.136 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 17.408 ms

Loss rate: 0.01%

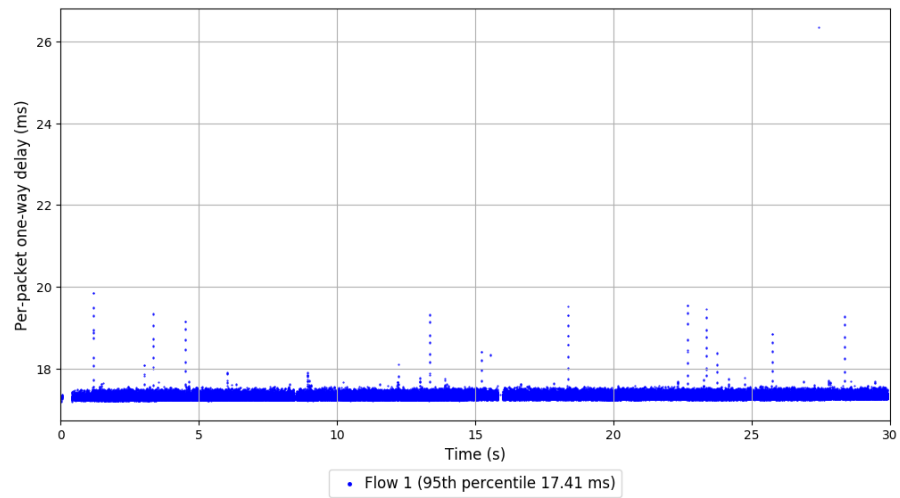
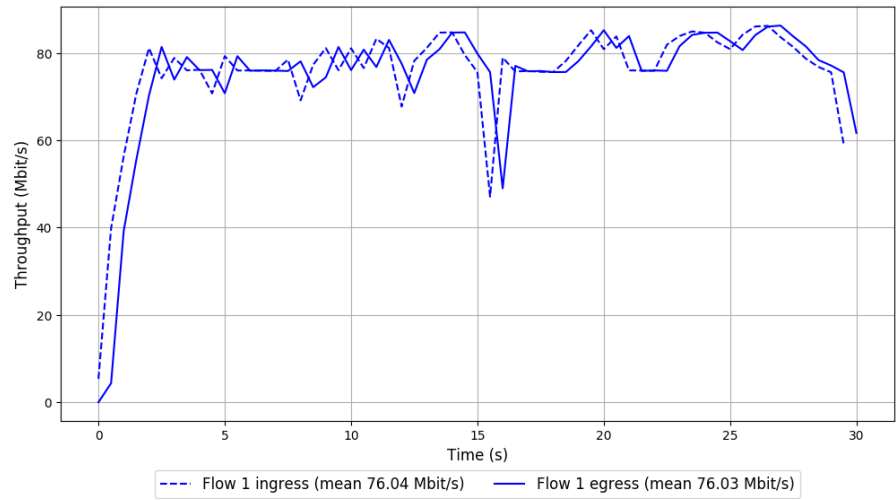
-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 17.408 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-03 10:49:07

End at: 2018-07-03 10:49:37

Local clock offset: 4.882 ms

Remote clock offset: 3.09 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.53 Mbit/s

95th percentile per-packet one-way delay: 19.099 ms

Loss rate: 0.00%

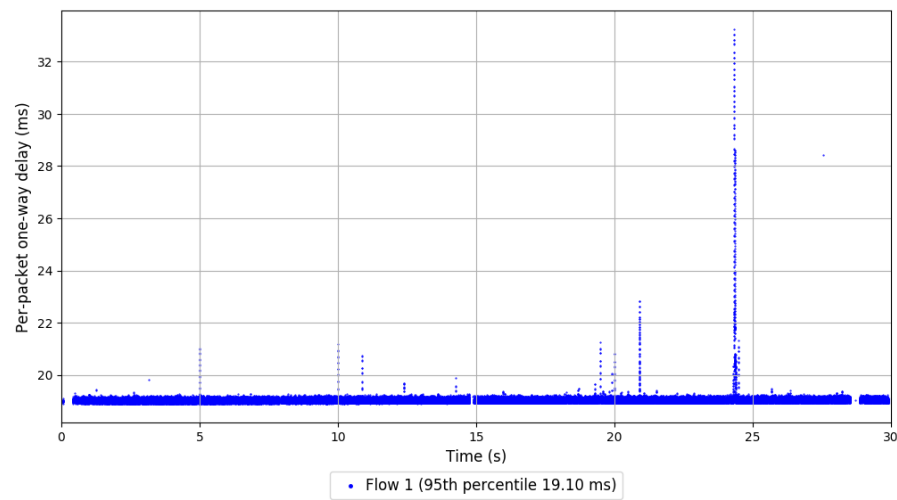
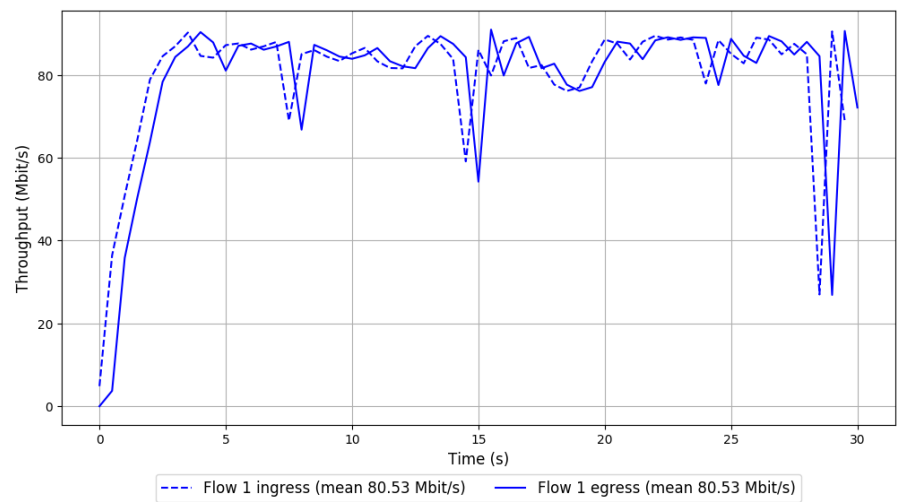
-- Flow 1:

Average throughput: 80.53 Mbit/s

95th percentile per-packet one-way delay: 19.099 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-03 11:14:56

End at: 2018-07-03 11:15:26

Local clock offset: 2.139 ms

Remote clock offset: 1.905 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 18.729 ms

Loss rate: 0.00%

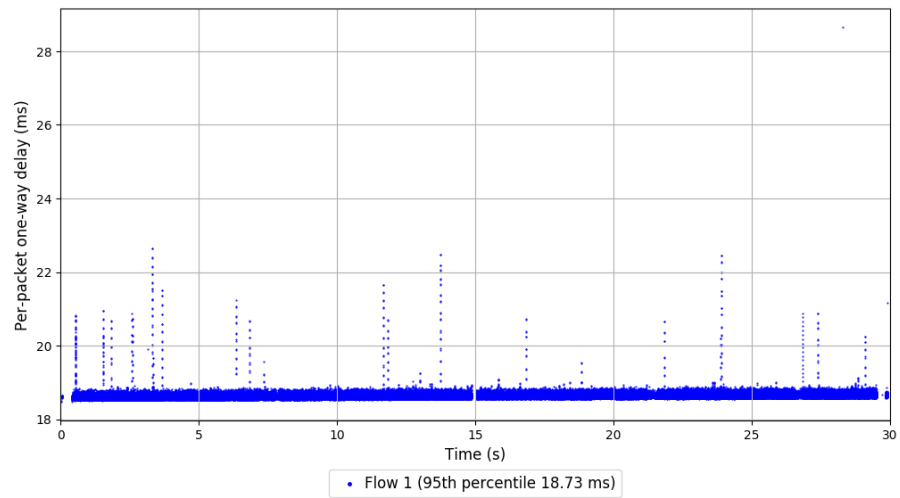
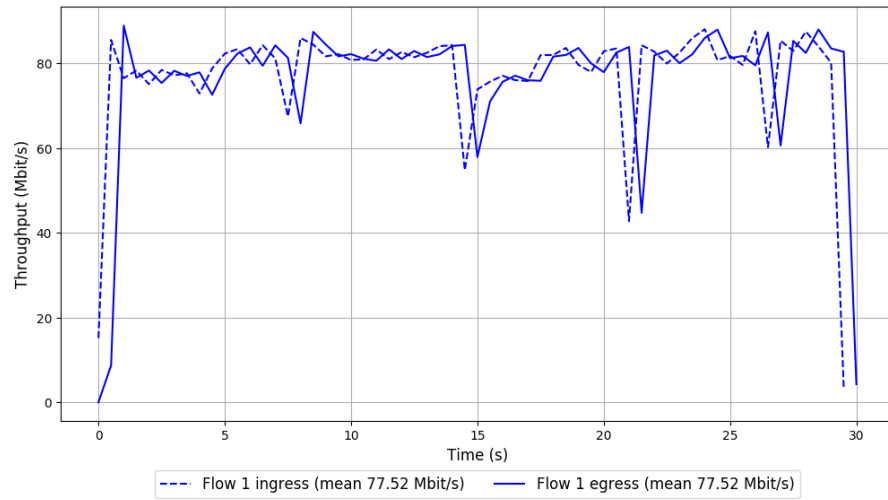
-- Flow 1:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 18.729 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-03 11:40:53

End at: 2018-07-03 11:41:23

Local clock offset: 0.627 ms

Remote clock offset: -0.87 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.19 Mbit/s

95th percentile per-packet one-way delay: 18.157 ms

Loss rate: 0.00%

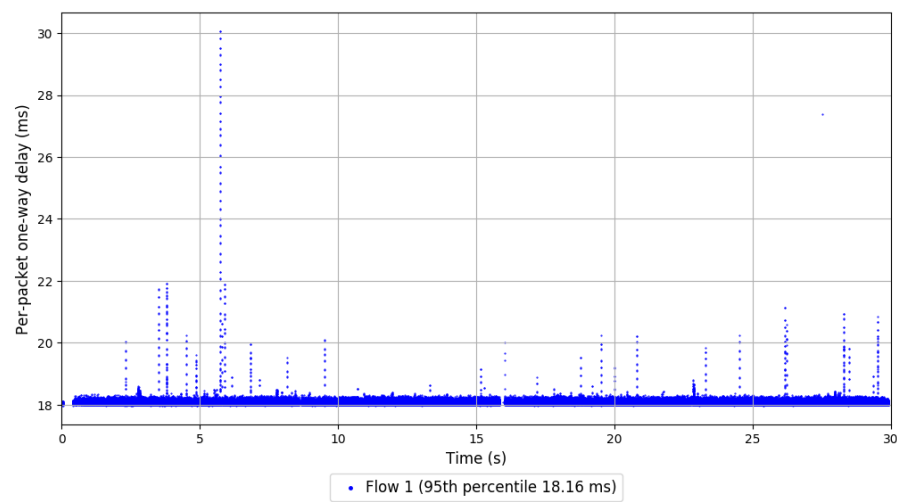
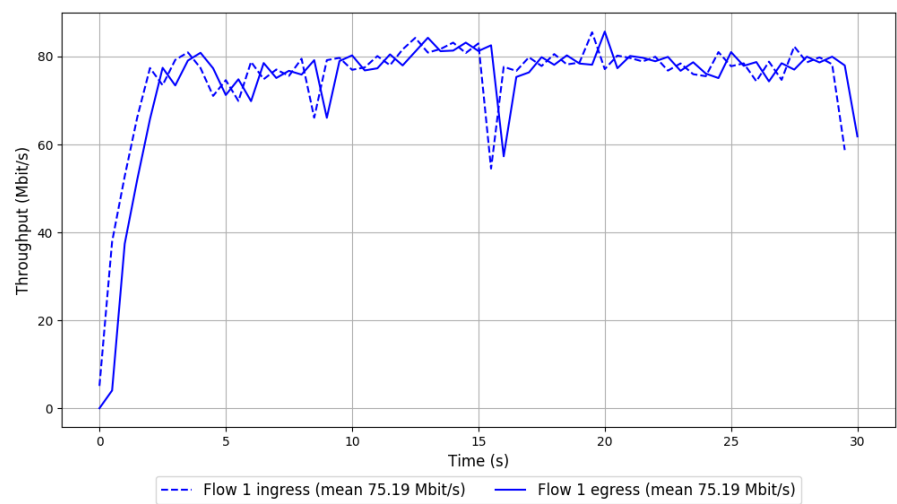
-- Flow 1:

Average throughput: 75.19 Mbit/s

95th percentile per-packet one-way delay: 18.157 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-03 12:06:38

End at: 2018-07-03 12:07:08

Local clock offset: -0.505 ms

Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 18.481 ms

Loss rate: 0.00%

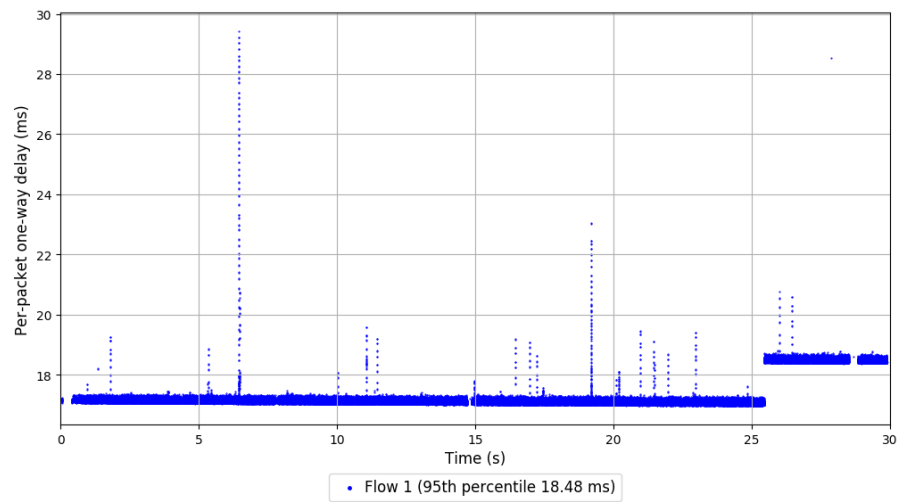
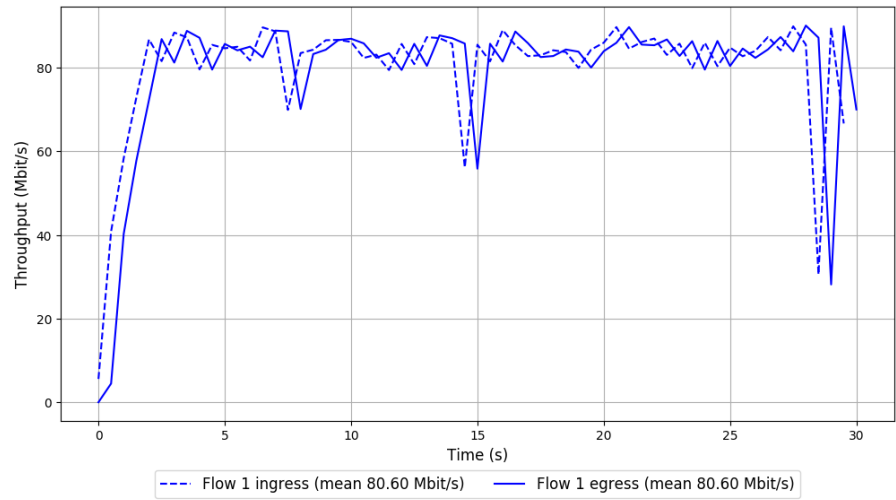
-- Flow 1:

Average throughput: 80.60 Mbit/s

95th percentile per-packet one-way delay: 18.481 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-03 12:32:25

End at: 2018-07-03 12:32:55

Local clock offset: -3.393 ms

Remote clock offset: -0.208 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.21 Mbit/s

95th percentile per-packet one-way delay: 18.858 ms

Loss rate: 0.00%

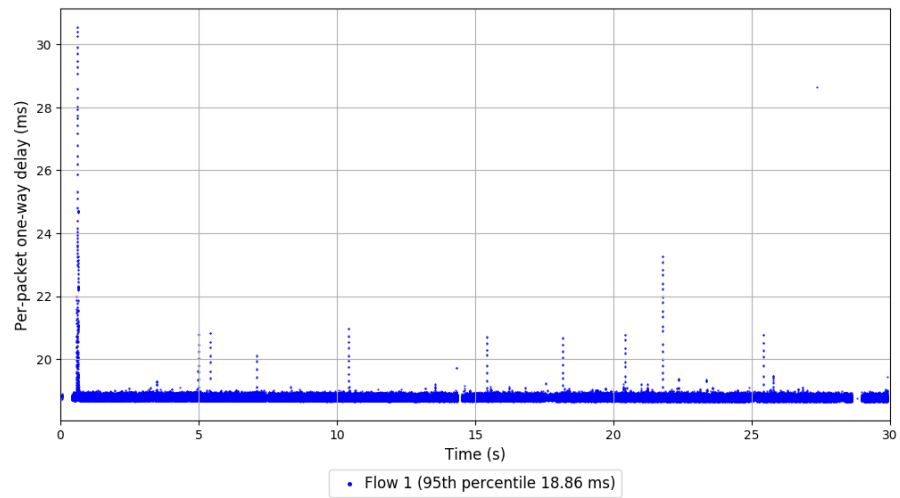
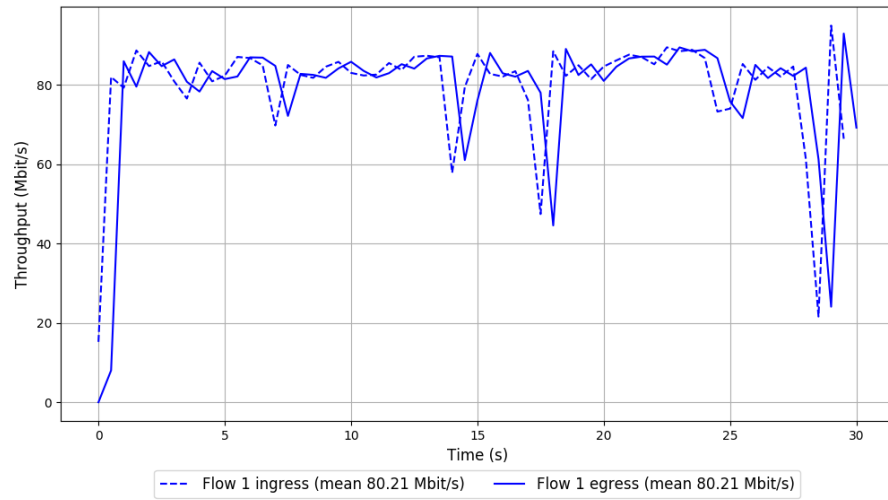
-- Flow 1:

Average throughput: 80.21 Mbit/s

95th percentile per-packet one-way delay: 18.858 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-03 12:58:04

End at: 2018-07-03 12:58:34

Local clock offset: 0.695 ms

Remote clock offset: 0.895 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.24 Mbit/s

95th percentile per-packet one-way delay: 19.003 ms

Loss rate: 0.00%

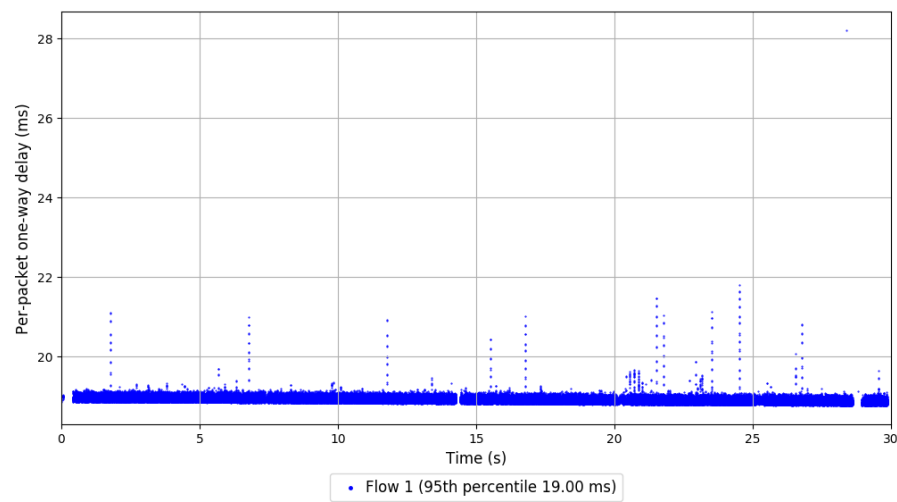
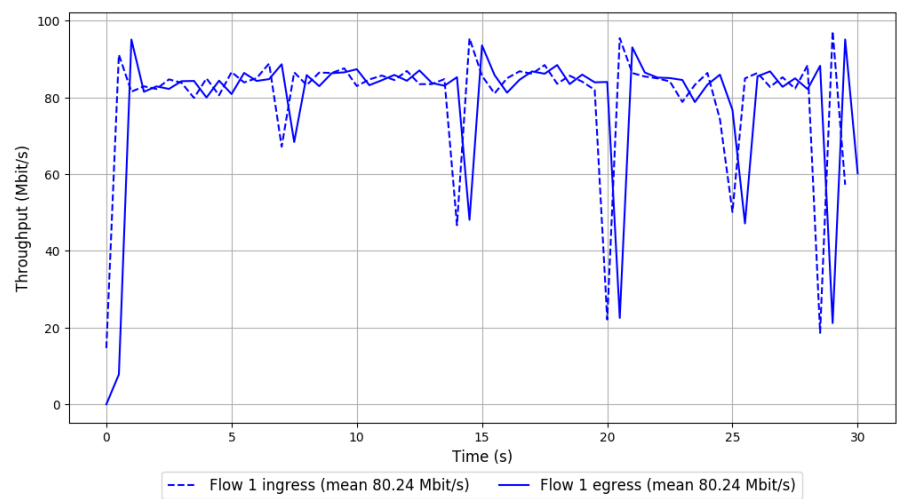
-- Flow 1:

Average throughput: 80.24 Mbit/s

95th percentile per-packet one-way delay: 19.003 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-03 13:23:57

End at: 2018-07-03 13:24:27

Local clock offset: 0.848 ms

Remote clock offset: 3.452 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.43 Mbit/s

95th percentile per-packet one-way delay: 18.796 ms

Loss rate: 0.00%

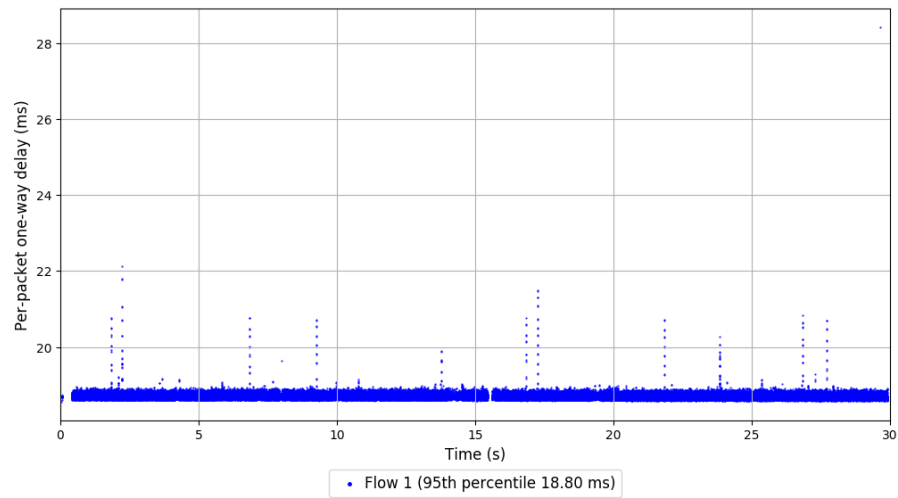
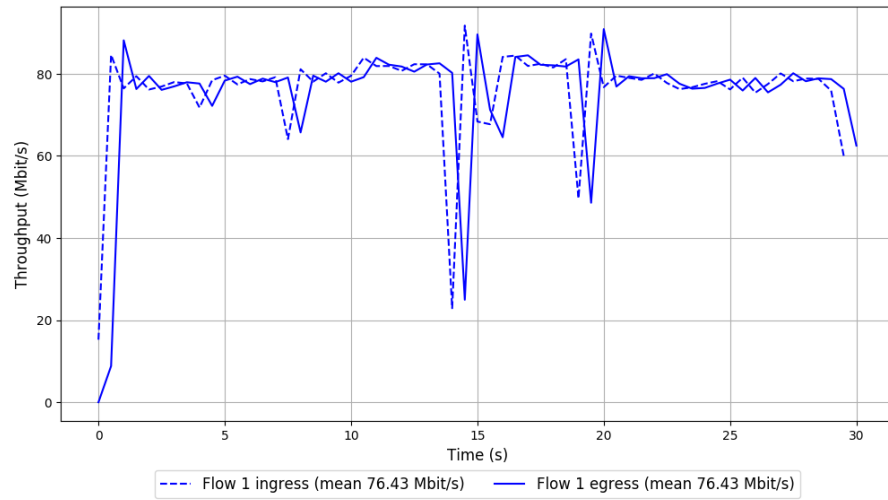
-- Flow 1:

Average throughput: 76.43 Mbit/s

95th percentile per-packet one-way delay: 18.796 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-03 13:49:38

End at: 2018-07-03 13:50:08

Local clock offset: 0.57 ms

Remote clock offset: 1.364 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 18.744 ms

Loss rate: 0.00%

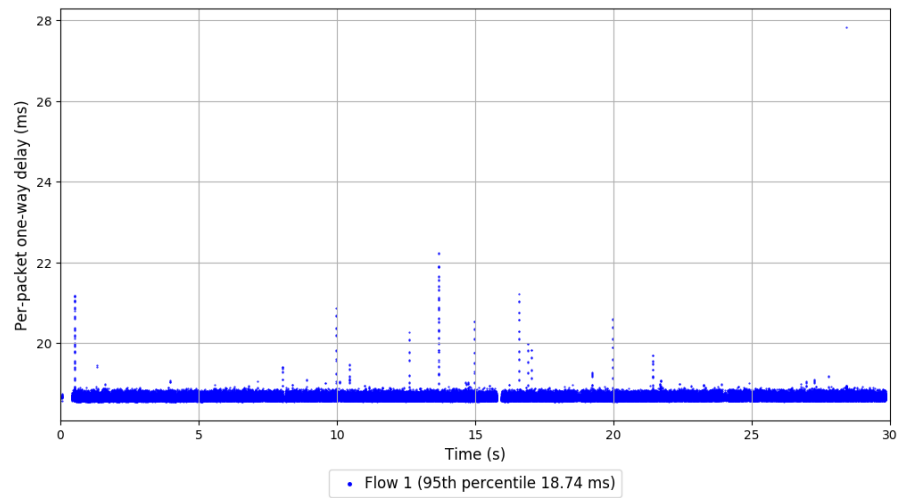
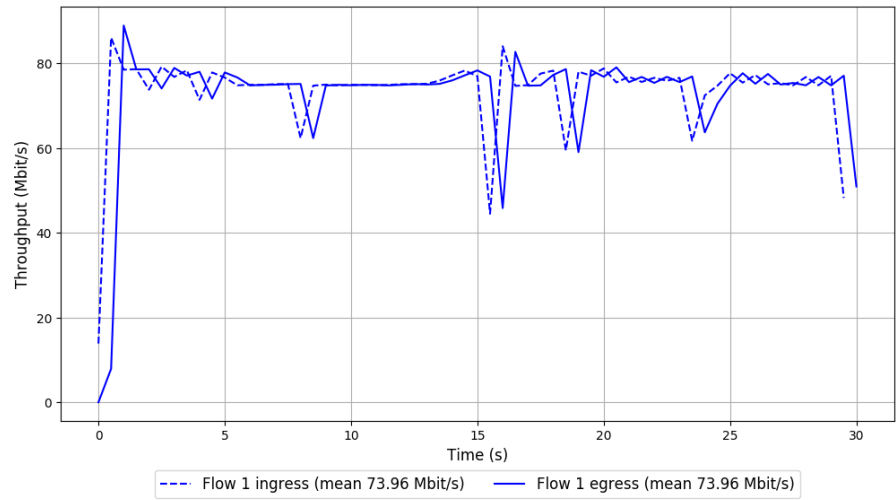
-- Flow 1:

Average throughput: 73.96 Mbit/s

95th percentile per-packet one-way delay: 18.744 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-03 14:15:22

End at: 2018-07-03 14:15:52

Local clock offset: 0.686 ms

Remote clock offset: -0.014 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.43 Mbit/s

95th percentile per-packet one-way delay: 19.000 ms

Loss rate: 0.00%

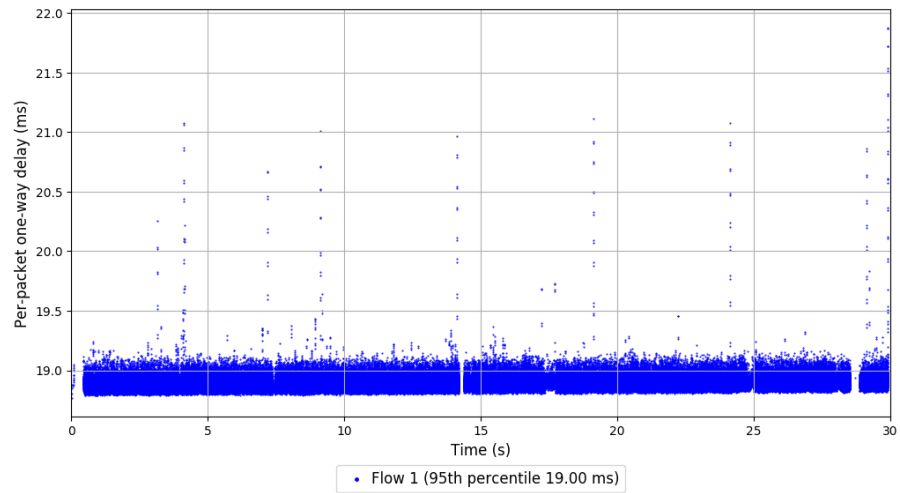
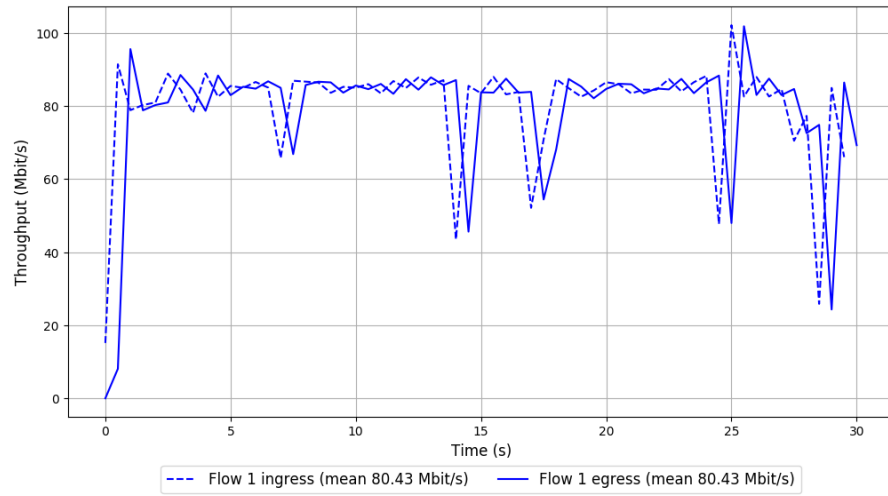
-- Flow 1:

Average throughput: 80.43 Mbit/s

95th percentile per-packet one-way delay: 19.000 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

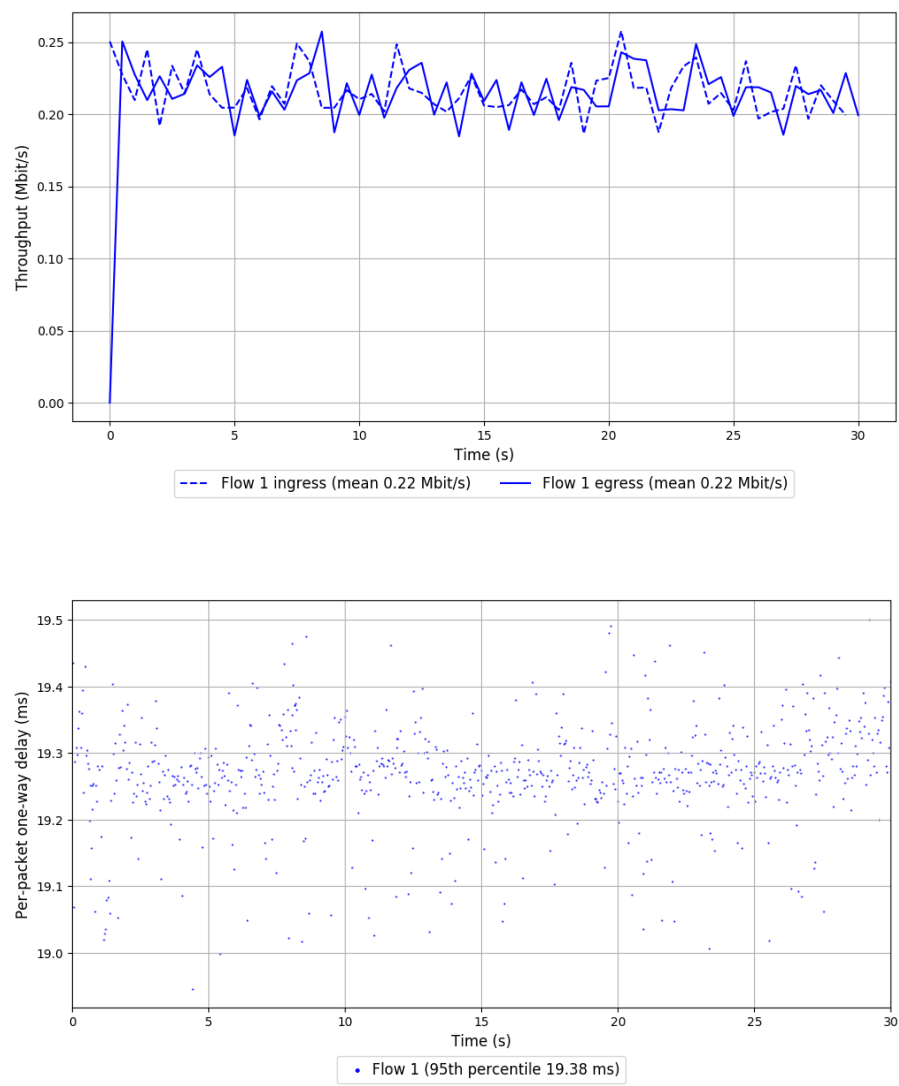


```
Run 1: Statistics of SCReAM

Start at: 2018-07-03 10:40:32
End at: 2018-07-03 10:41:02
Local clock offset: 4.464 ms
Remote clock offset: 3.221 ms

# Below is generated by plot.py at 2018-07-03 16:30:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.384 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-03 11:06:24

End at: 2018-07-03 11:06:54

Local clock offset: 4.584 ms

Remote clock offset: 3.18 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.046 ms

Loss rate: 0.00%

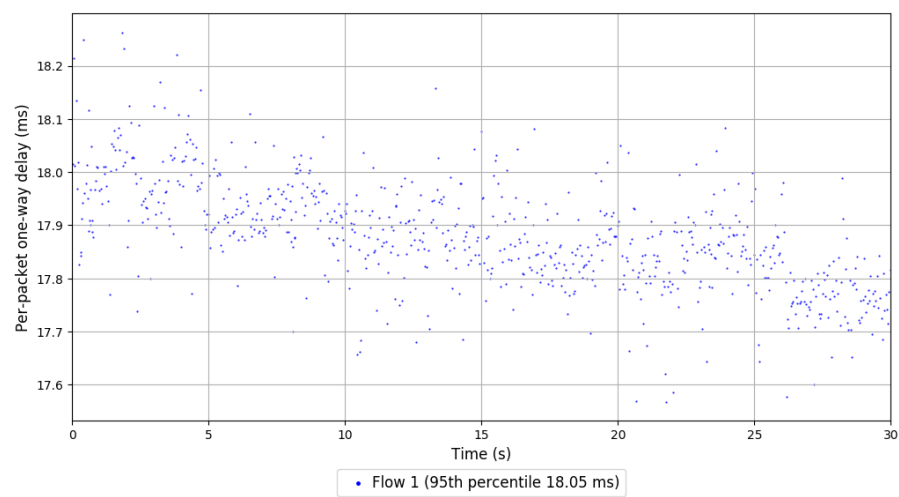
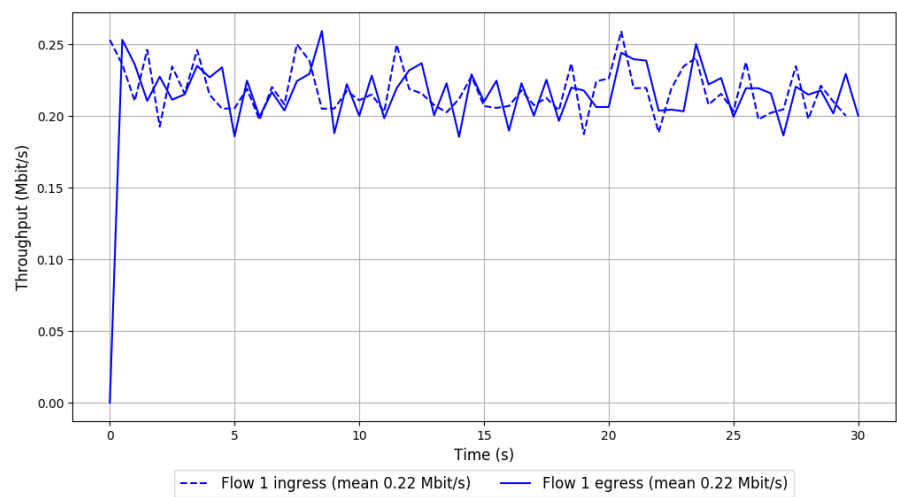
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.046 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-03 11:32:12

End at: 2018-07-03 11:32:42

Local clock offset: 1.242 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.523 ms

Loss rate: 0.00%

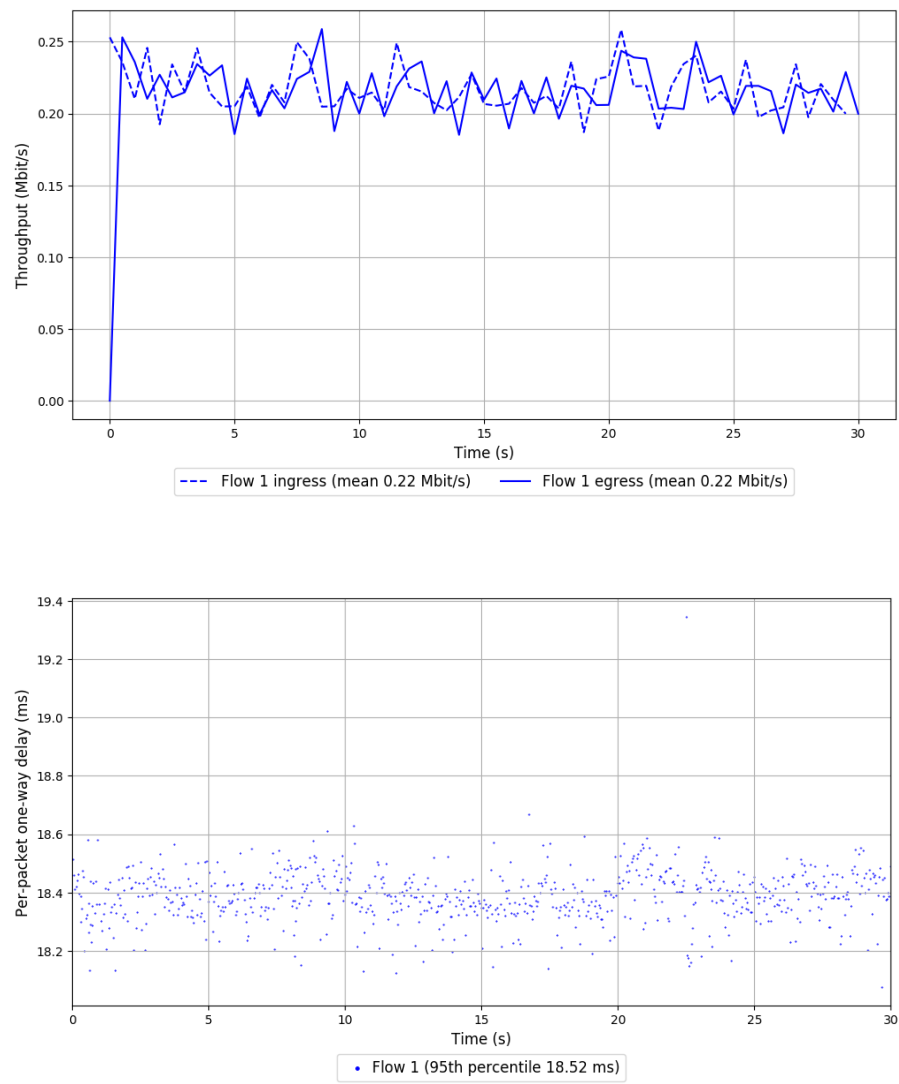
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.523 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

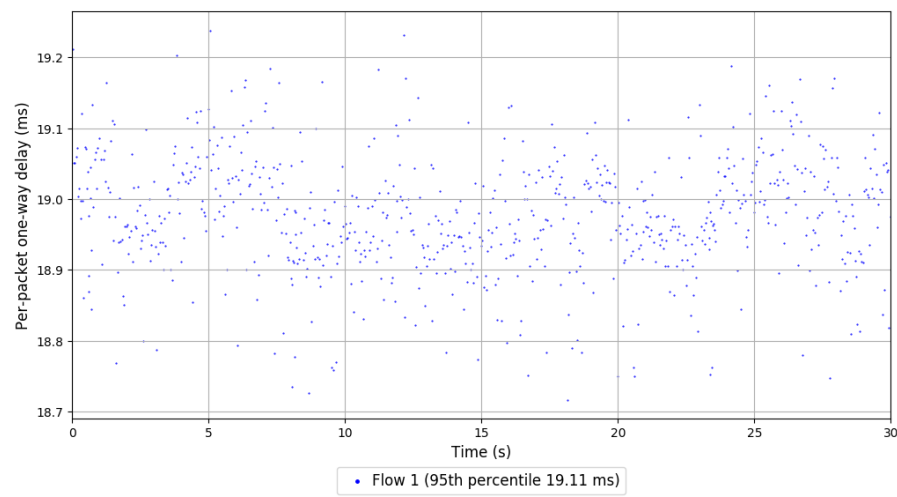
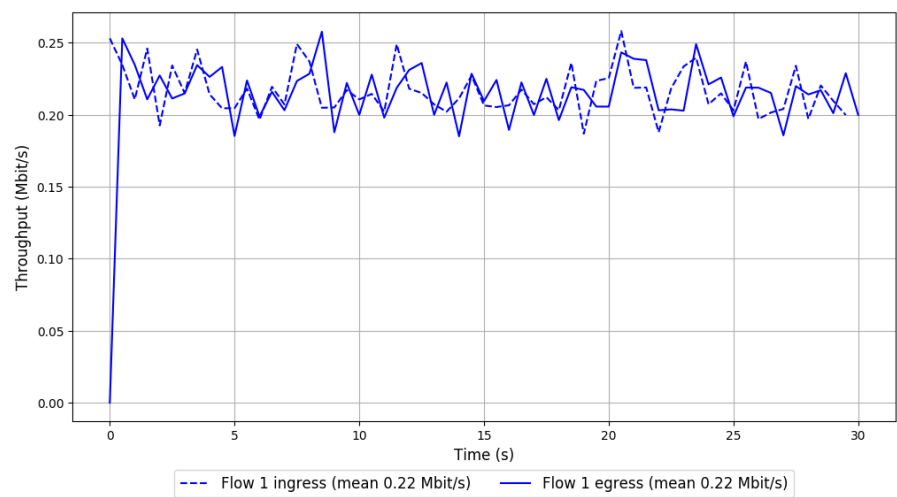


Run 4: Statistics of SCReAM

Start at: 2018-07-03 11:58:07
End at: 2018-07-03 11:58:37
Local clock offset: 0.426 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.112 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

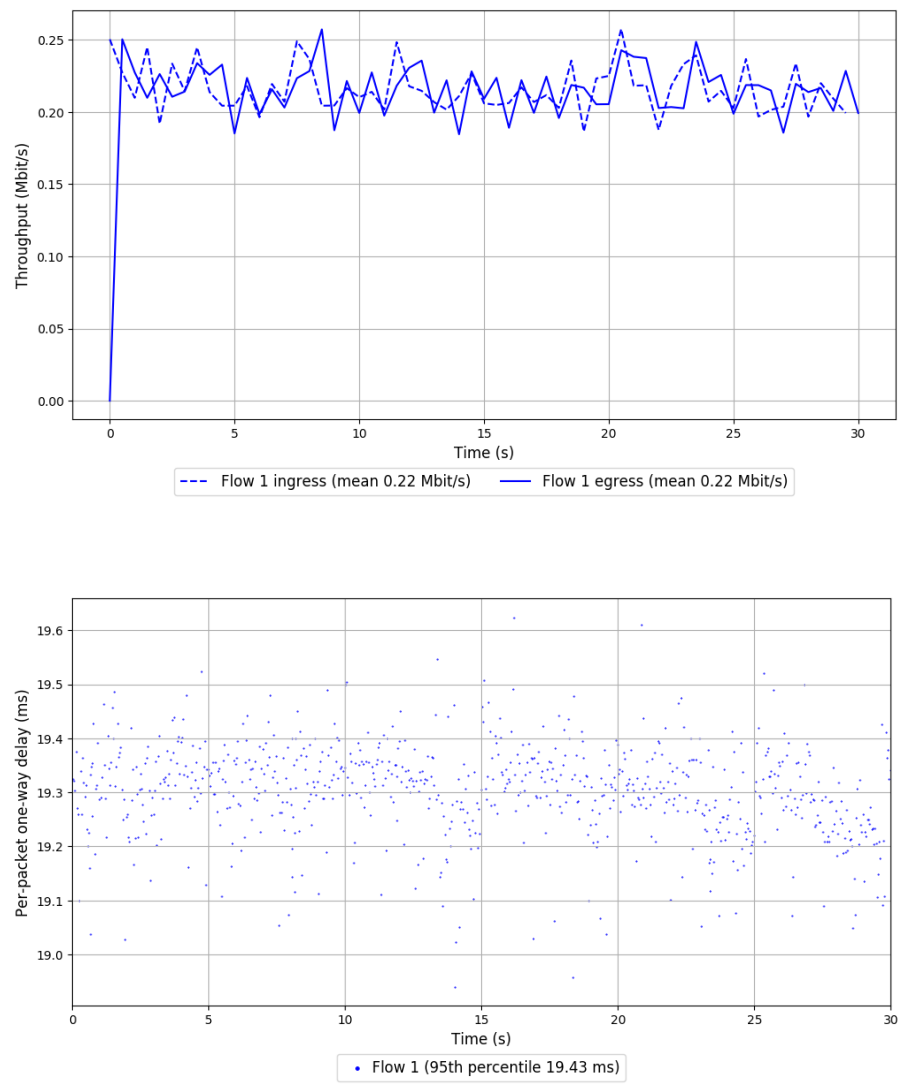


Run 5: Statistics of SCReAM

Start at: 2018-07-03 12:23:47
End at: 2018-07-03 12:24:17
Local clock offset: -2.903 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.427 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.427 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

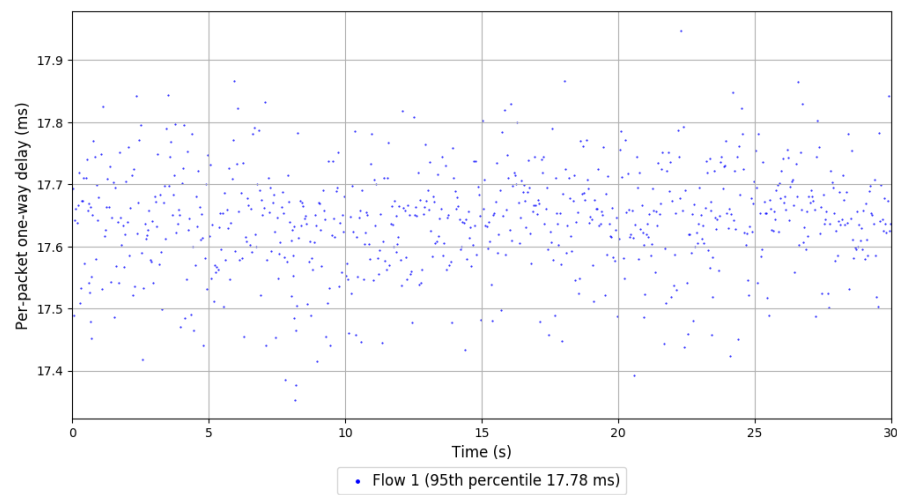
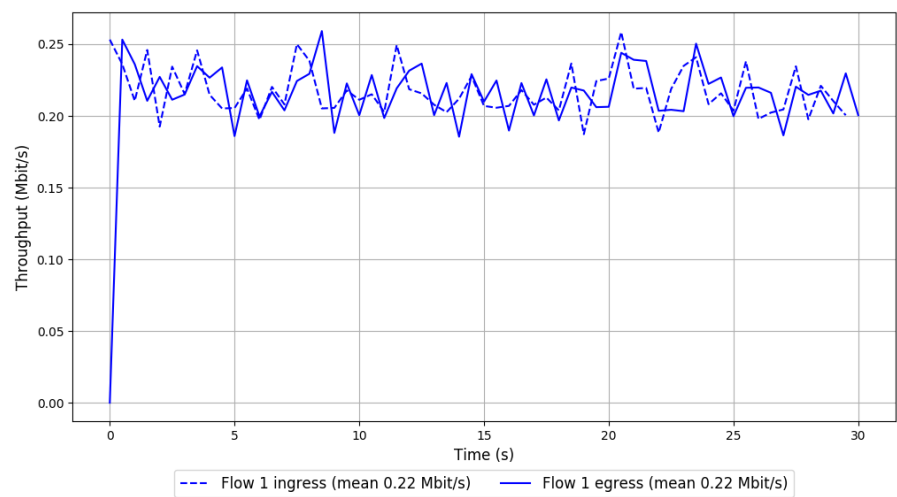


Run 6: Statistics of SCReAM

Start at: 2018-07-03 12:49:37
End at: 2018-07-03 12:50:07
Local clock offset: 0.24 ms
Remote clock offset: -0.493 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.781 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-03 13:15:23

End at: 2018-07-03 13:15:53

Local clock offset: 0.804 ms

Remote clock offset: 3.099 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.173 ms

Loss rate: 0.00%

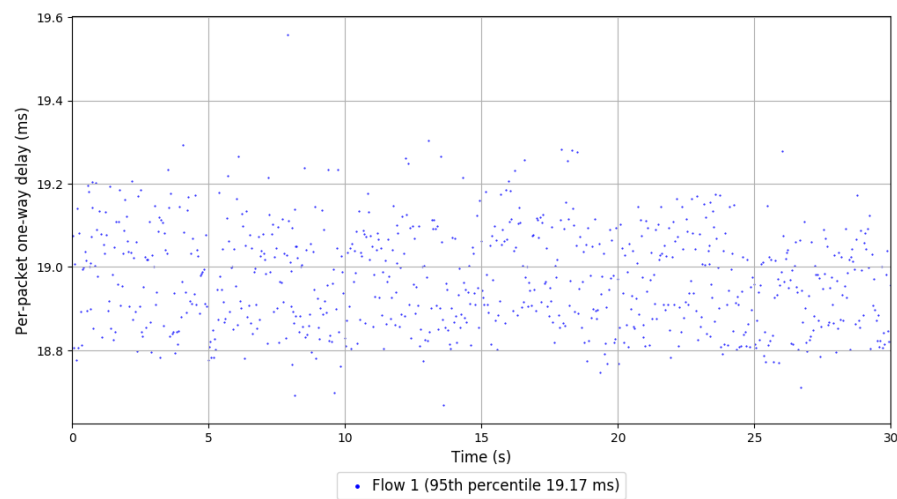
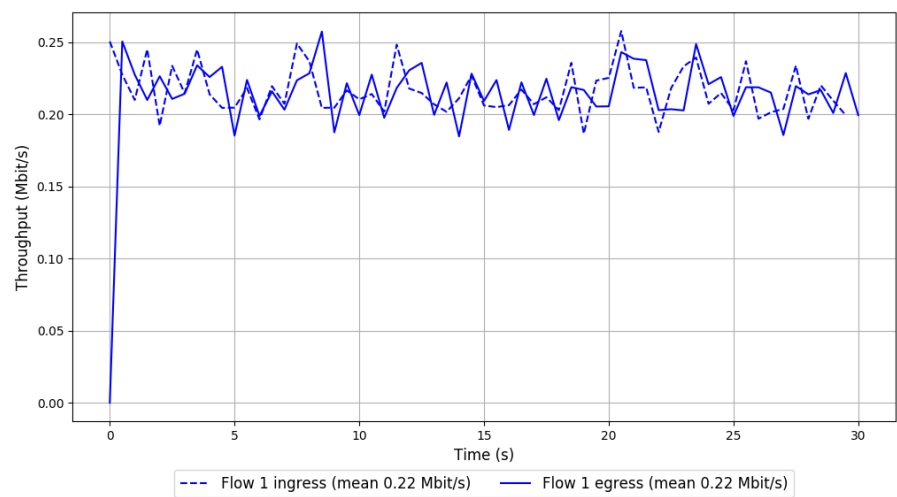
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.173 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-03 13:41:08

End at: 2018-07-03 13:41:38

Local clock offset: 0.647 ms

Remote clock offset: 1.794 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.921 ms

Loss rate: 0.00%

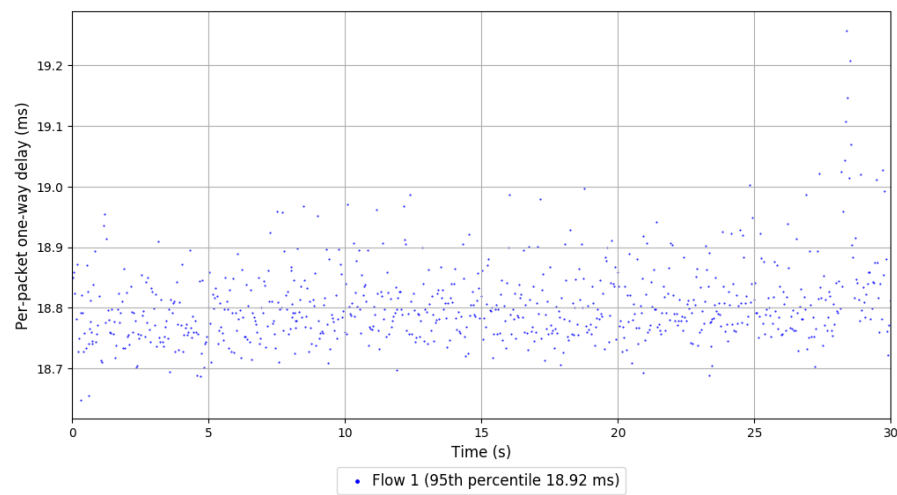
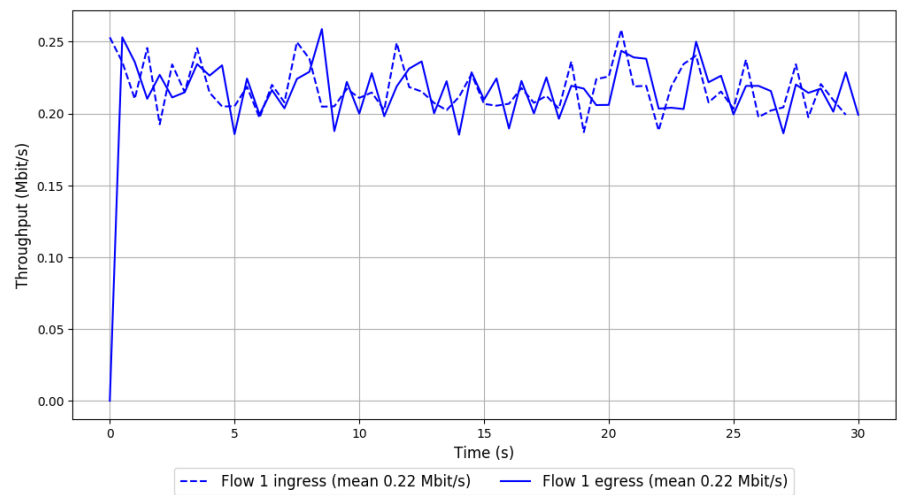
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.921 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-03 14:06:47

End at: 2018-07-03 14:07:17

Local clock offset: 0.6 ms

Remote clock offset: 0.655 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.280 ms

Loss rate: 0.00%

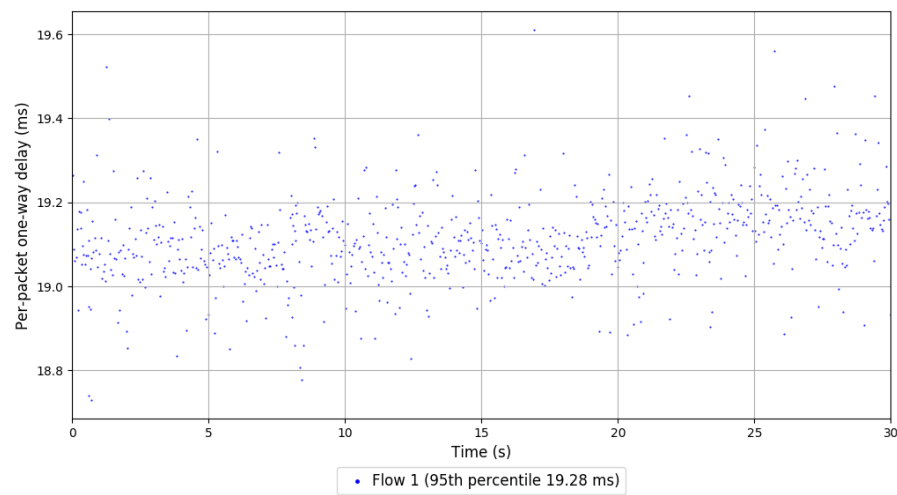
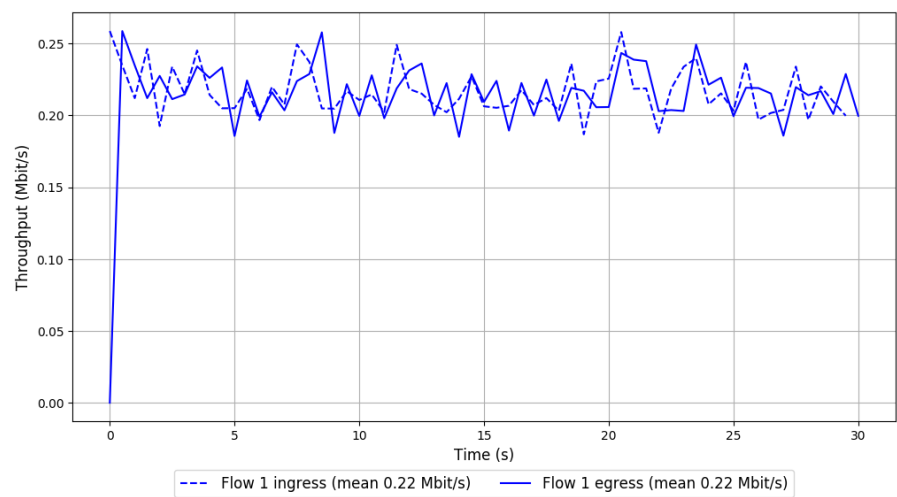
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.280 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

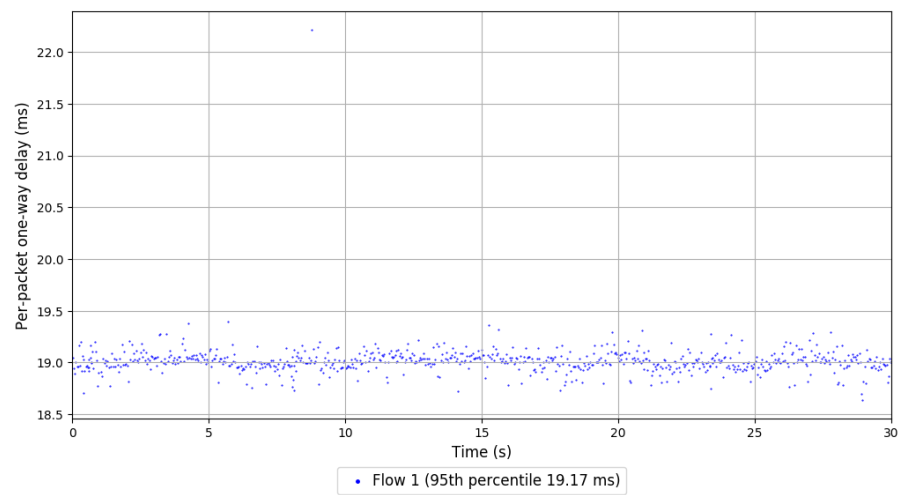
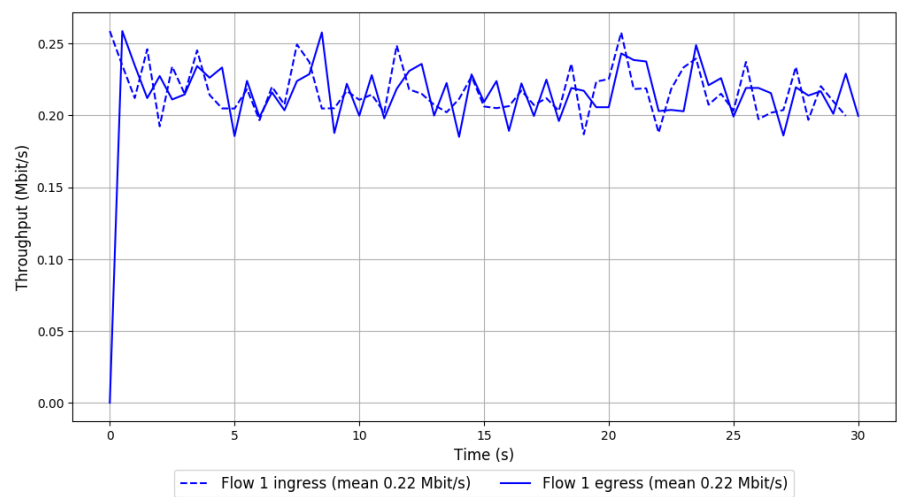


Run 10: Statistics of SReAM

Start at: 2018-07-03 14:32:41
End at: 2018-07-03 14:33:11
Local clock offset: 0.798 ms
Remote clock offset: -0.523 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.169 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-03 10:45:08

End at: 2018-07-03 10:45:38

Local clock offset: 4.53 ms

Remote clock offset: 3.122 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 21.327 ms

Loss rate: 0.00%

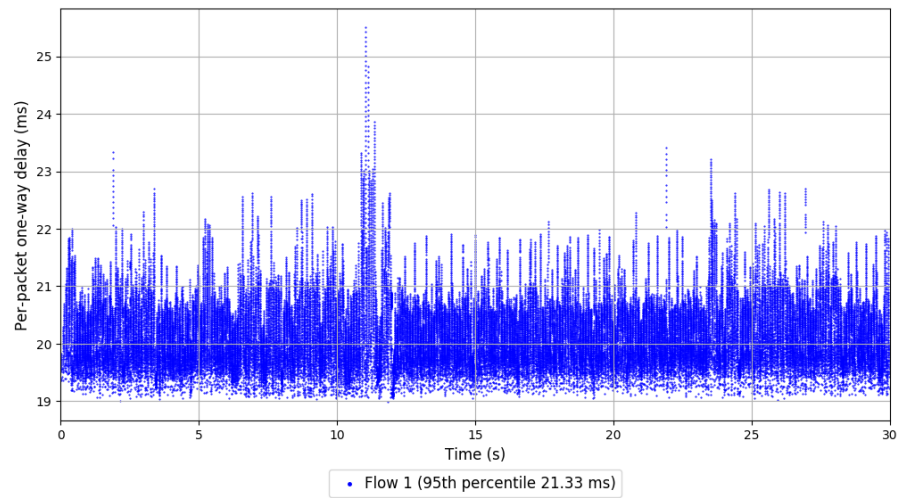
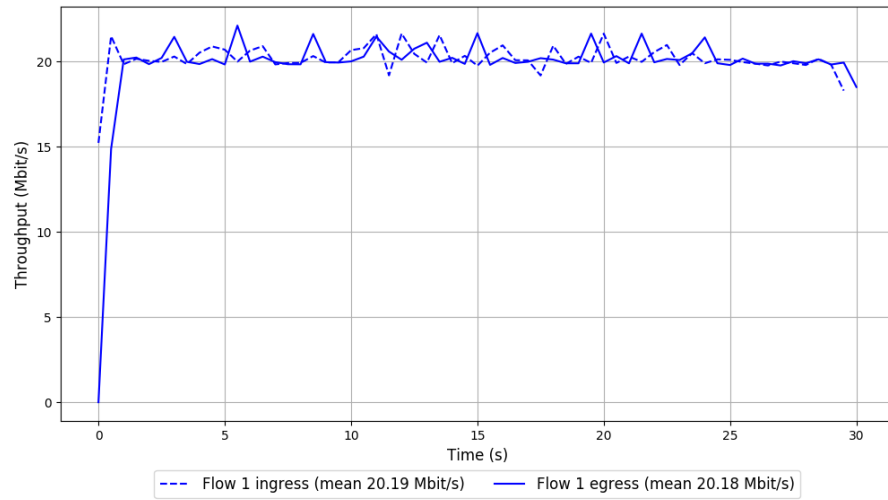
-- Flow 1:

Average throughput: 20.18 Mbit/s

95th percentile per-packet one-way delay: 21.327 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

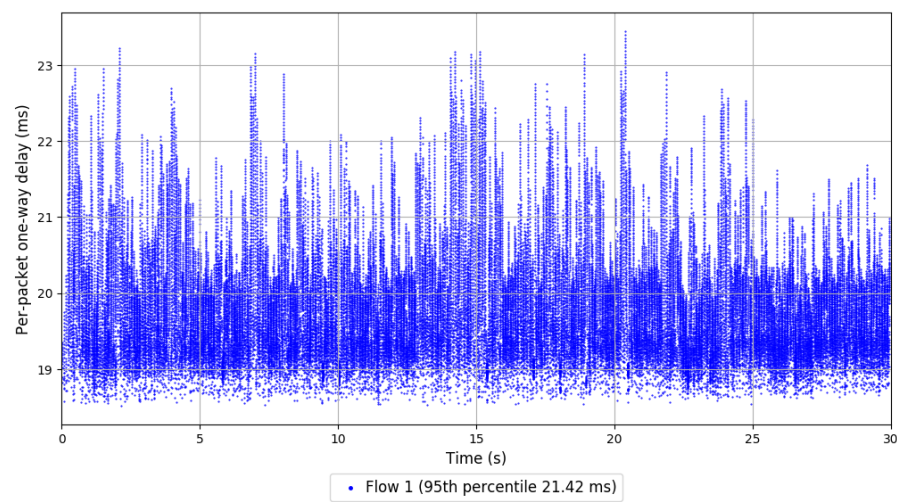
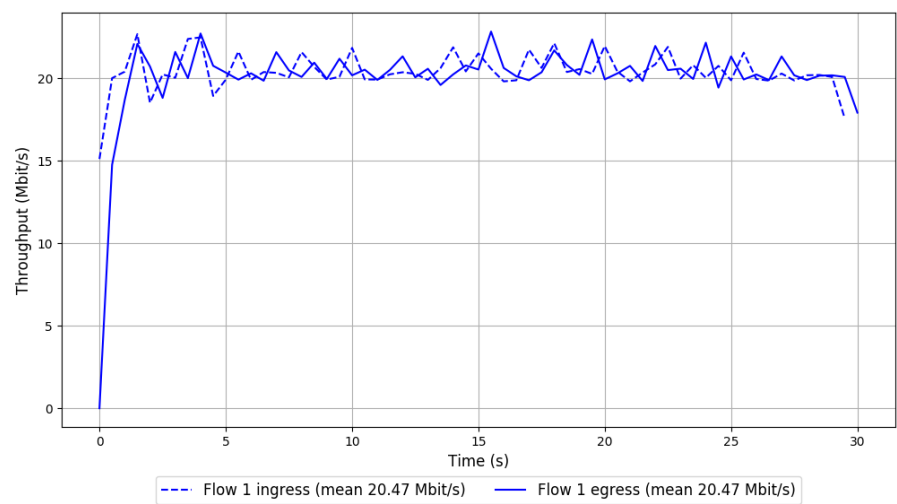


Run 2: Statistics of Sprout

Start at: 2018-07-03 11:11:00
End at: 2018-07-03 11:11:30
Local clock offset: 2.932 ms
Remote clock offset: 3.205 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 21.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 21.421 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-03 11:36:49

End at: 2018-07-03 11:37:19

Local clock offset: 0.948 ms

Remote clock offset: -0.66 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 21.377 ms

Loss rate: 0.00%

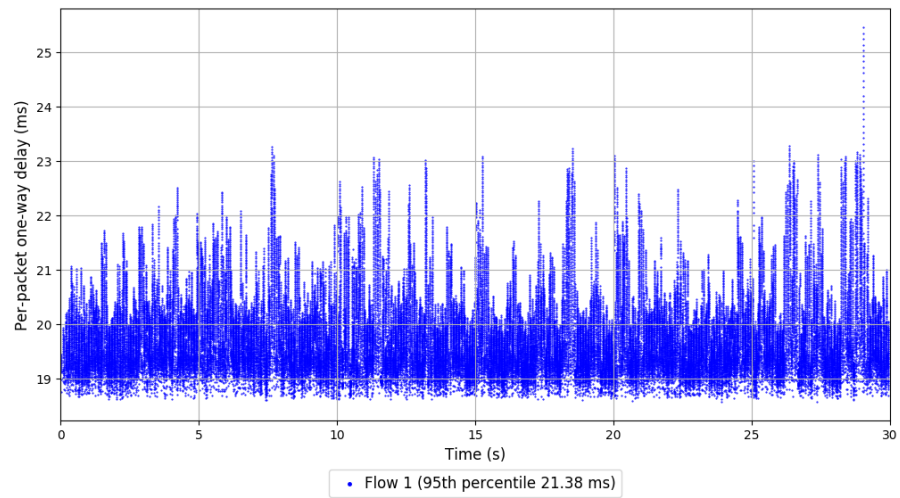
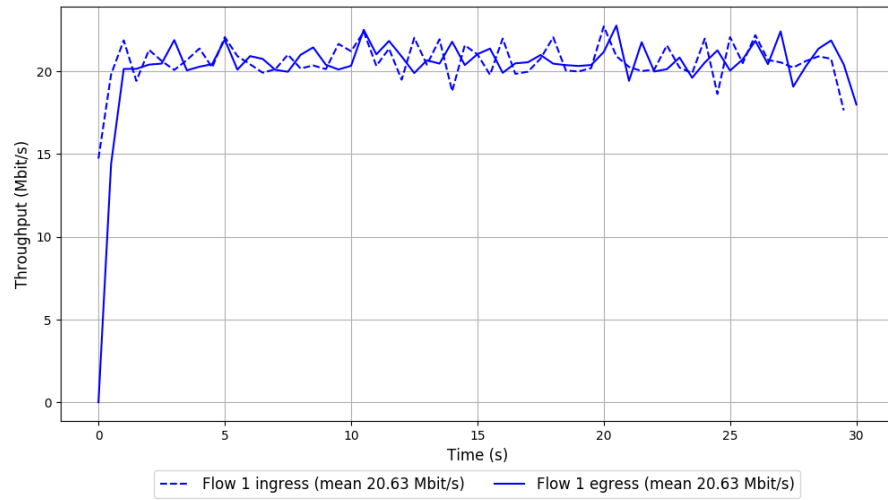
-- Flow 1:

Average throughput: 20.63 Mbit/s

95th percentile per-packet one-way delay: 21.377 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

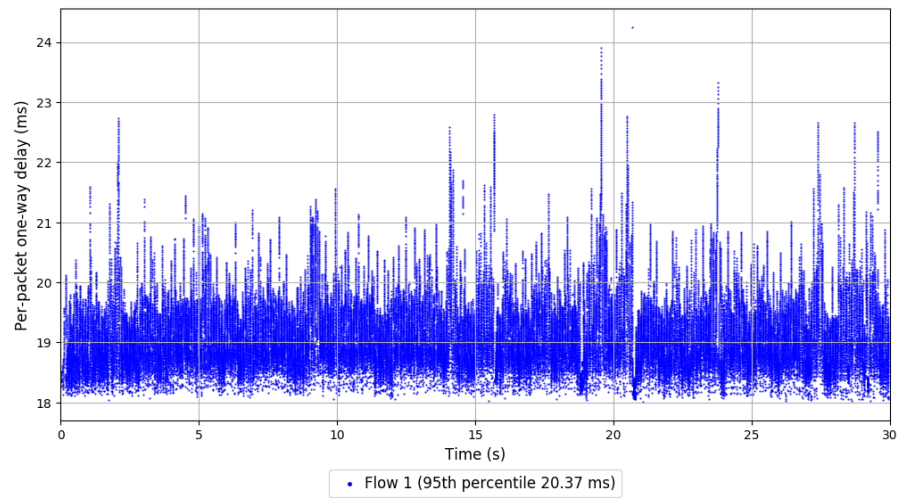
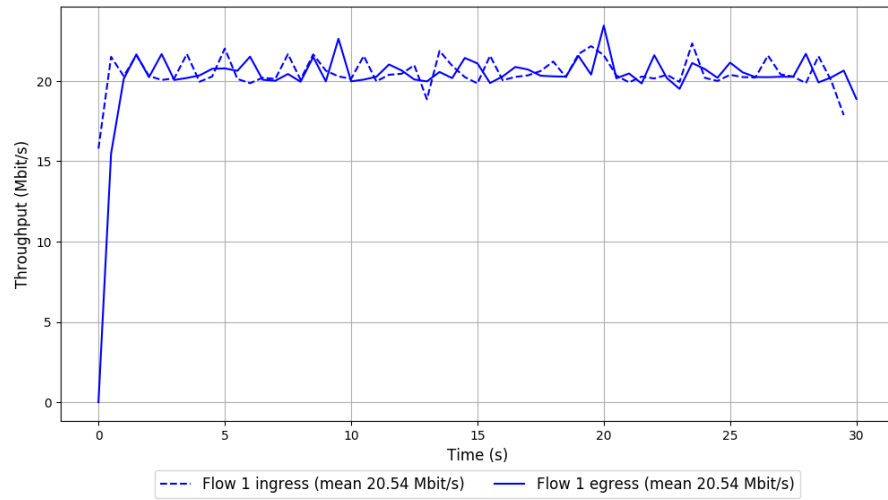


Run 4: Statistics of Sprout

Start at: 2018-07-03 12:02:41
End at: 2018-07-03 12:03:11
Local clock offset: 0.369 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 20.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 20.372 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

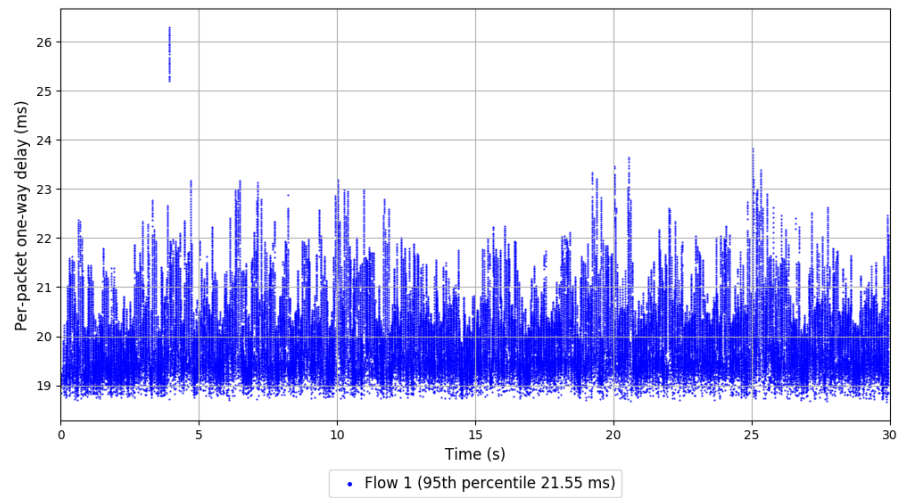
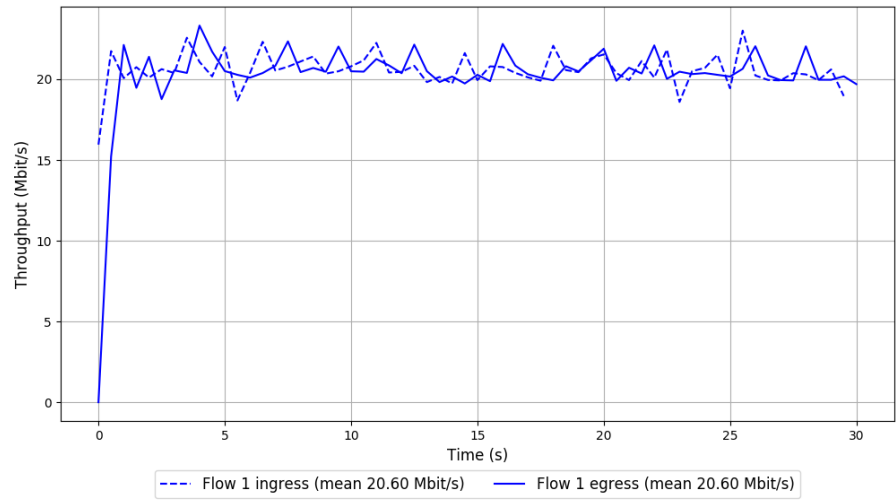


Run 5: Statistics of Sprout

Start at: 2018-07-03 12:28:25
End at: 2018-07-03 12:28:55
Local clock offset: -3.159 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 21.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.60 Mbit/s
95th percentile per-packet one-way delay: 21.545 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

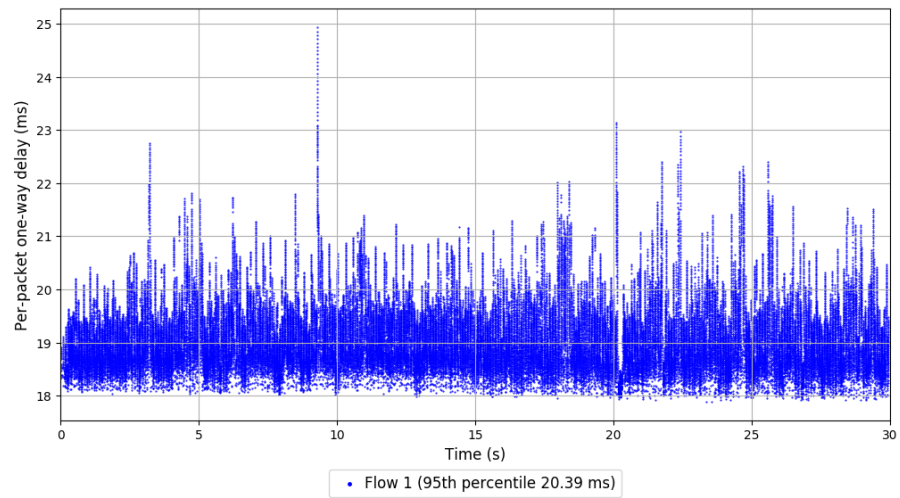
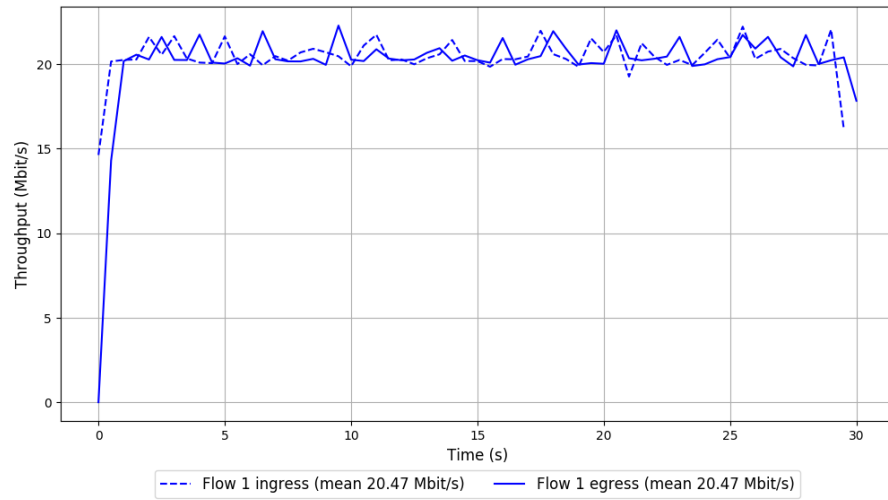


Run 6: Statistics of Sprout

Start at: 2018-07-03 12:54:08
End at: 2018-07-03 12:54:38
Local clock offset: 0.503 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 20.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 20.392 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-03 13:19:56

End at: 2018-07-03 13:20:26

Local clock offset: 0.78 ms

Remote clock offset: 3.309 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.24 Mbit/s

95th percentile per-packet one-way delay: 21.344 ms

Loss rate: 0.00%

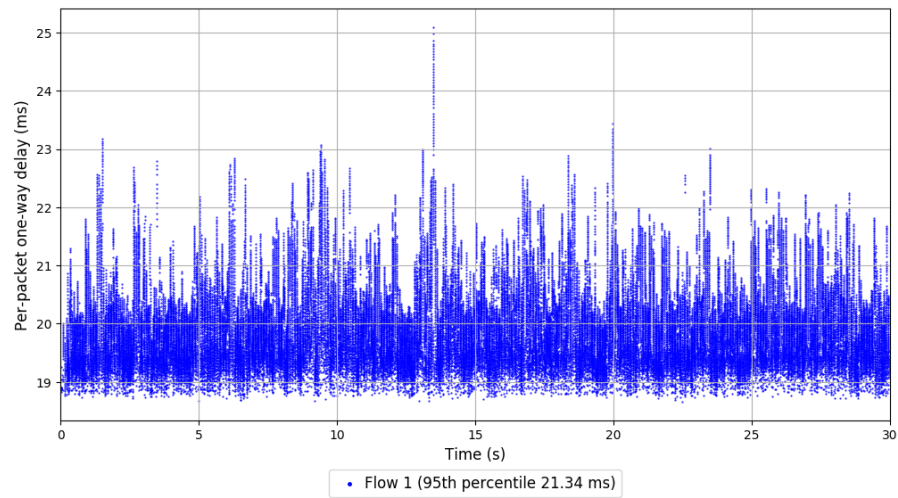
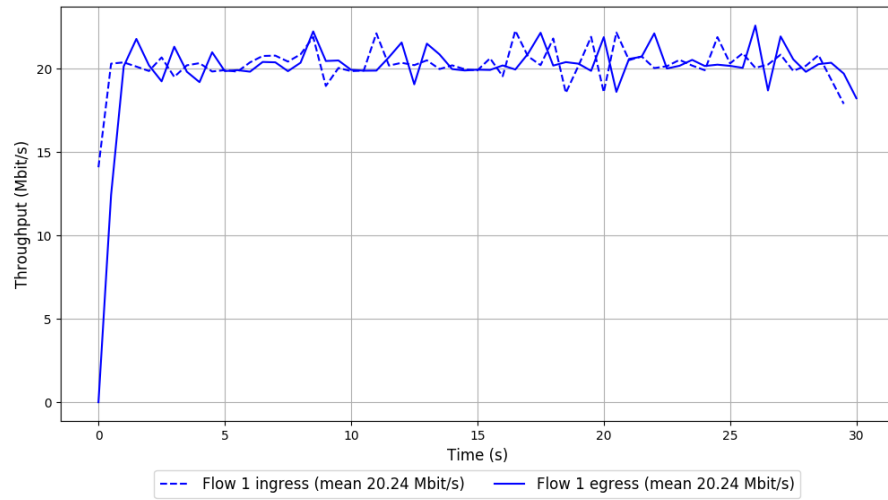
-- Flow 1:

Average throughput: 20.24 Mbit/s

95th percentile per-packet one-way delay: 21.344 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-03 13:45:41

End at: 2018-07-03 13:46:11

Local clock offset: 0.585 ms

Remote clock offset: 1.526 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 21.615 ms

Loss rate: 0.00%

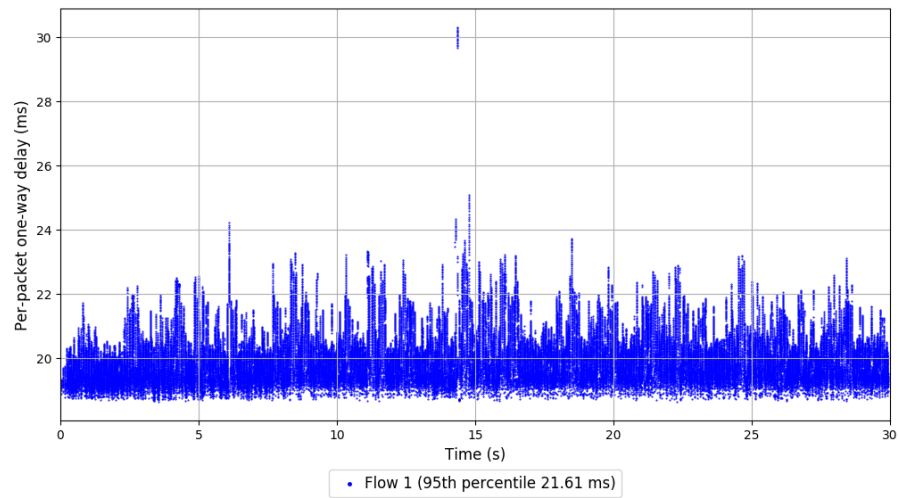
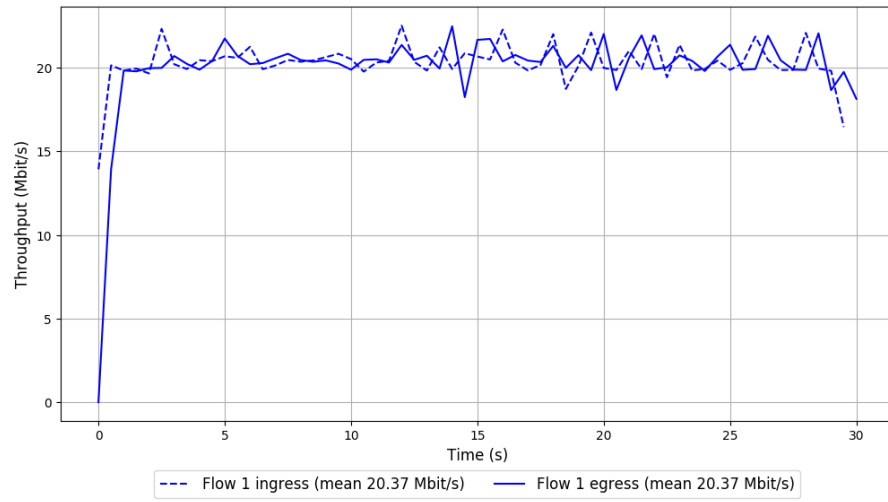
-- Flow 1:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 21.615 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-03 14:11:25

End at: 2018-07-03 14:11:55

Local clock offset: 0.557 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2018-07-03 16:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.45 Mbit/s

95th percentile per-packet one-way delay: 20.757 ms

Loss rate: 0.01%

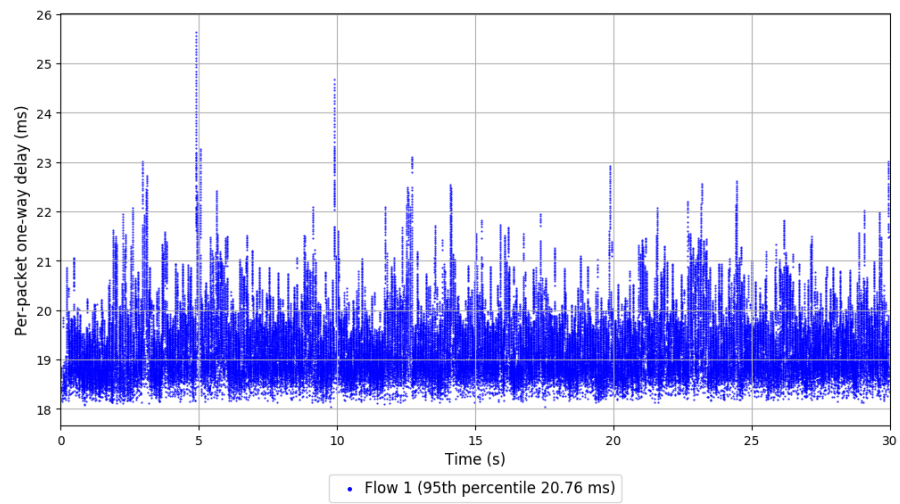
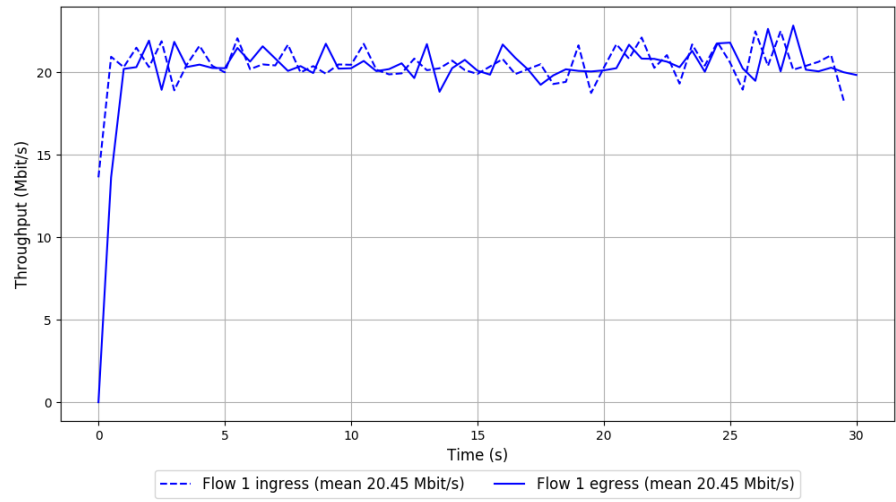
-- Flow 1:

Average throughput: 20.45 Mbit/s

95th percentile per-packet one-way delay: 20.757 ms

Loss rate: 0.01%

Run 9: Report of Sprout — Data Link

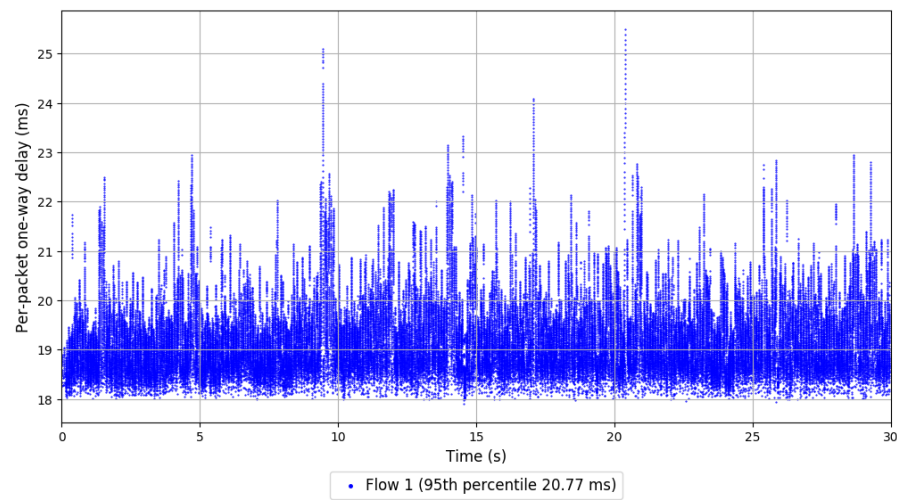
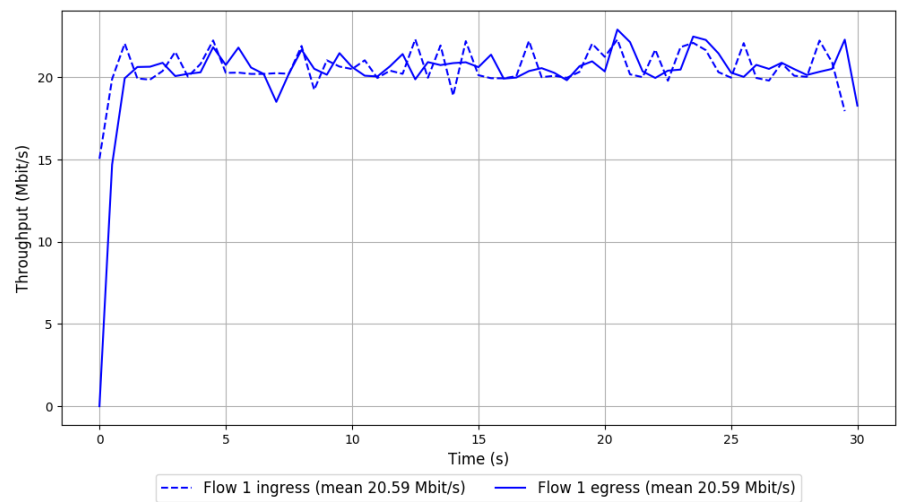


Run 10: Statistics of Sprout

Start at: 2018-07-03 14:37:09
End at: 2018-07-03 14:37:39
Local clock offset: 0.641 ms
Remote clock offset: -0.445 ms

Below is generated by plot.py at 2018-07-03 16:30:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 20.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 20.767 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-07-03 10:41:49

End at: 2018-07-03 10:42:19

Local clock offset: 4.393 ms

Remote clock offset: 3.213 ms

Below is generated by plot.py at 2018-07-03 16:30:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.88 Mbit/s

95th percentile per-packet one-way delay: 19.245 ms

Loss rate: 0.00%

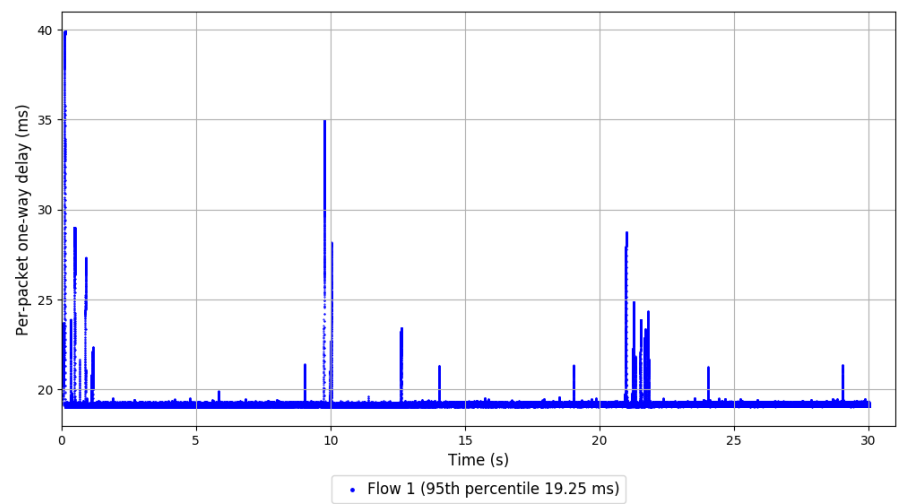
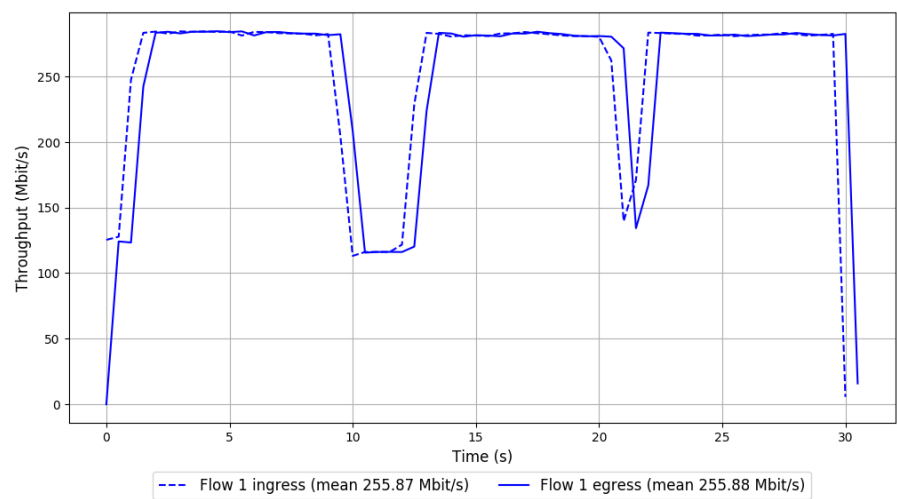
-- Flow 1:

Average throughput: 255.88 Mbit/s

95th percentile per-packet one-way delay: 19.245 ms

Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-03 11:07:41

End at: 2018-07-03 11:08:11

Local clock offset: 4.071 ms

Remote clock offset: 3.255 ms

Below is generated by plot.py at 2018-07-03 16:31:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.03 Mbit/s

95th percentile per-packet one-way delay: 17.844 ms

Loss rate: 0.00%

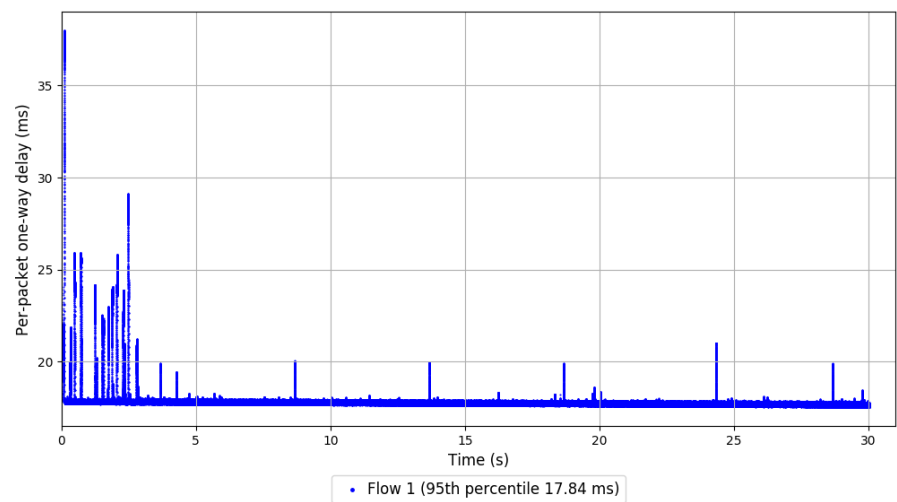
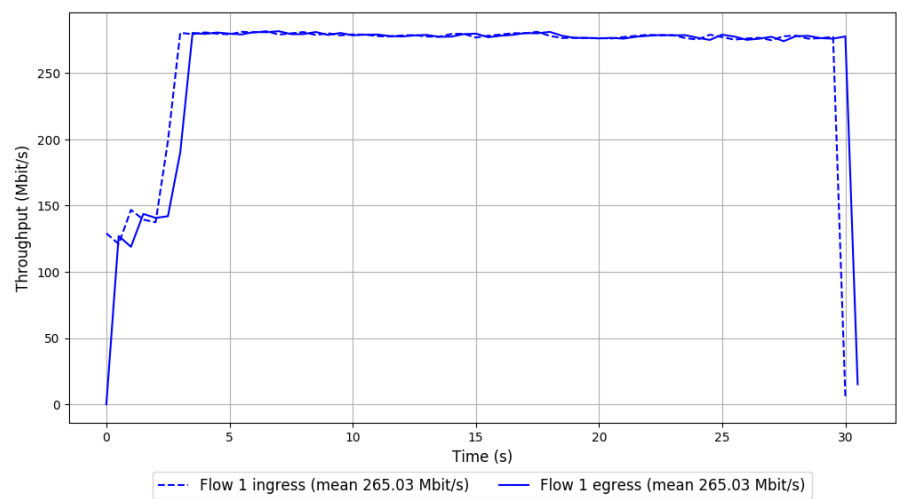
-- Flow 1:

Average throughput: 265.03 Mbit/s

95th percentile per-packet one-way delay: 17.844 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-03 11:33:29

End at: 2018-07-03 11:33:59

Local clock offset: 1.121 ms

Remote clock offset: -0.523 ms

Below is generated by plot.py at 2018-07-03 16:31:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.40 Mbit/s

95th percentile per-packet one-way delay: 18.811 ms

Loss rate: 0.00%

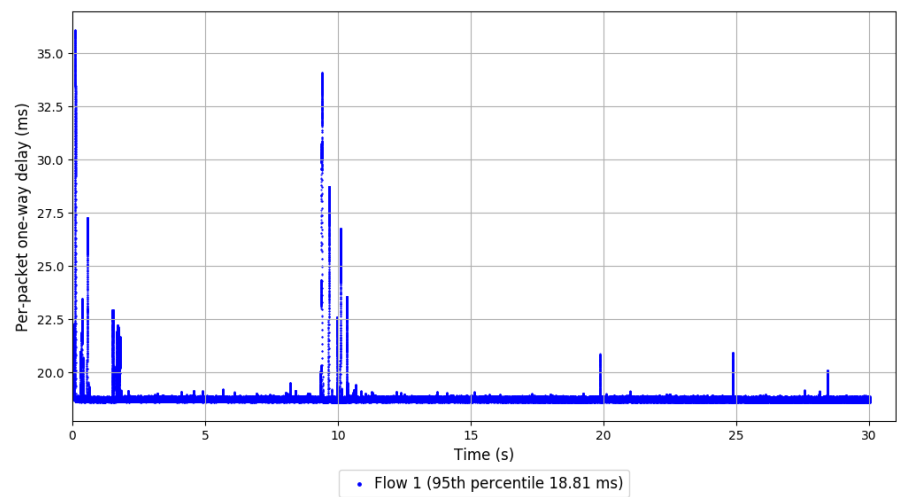
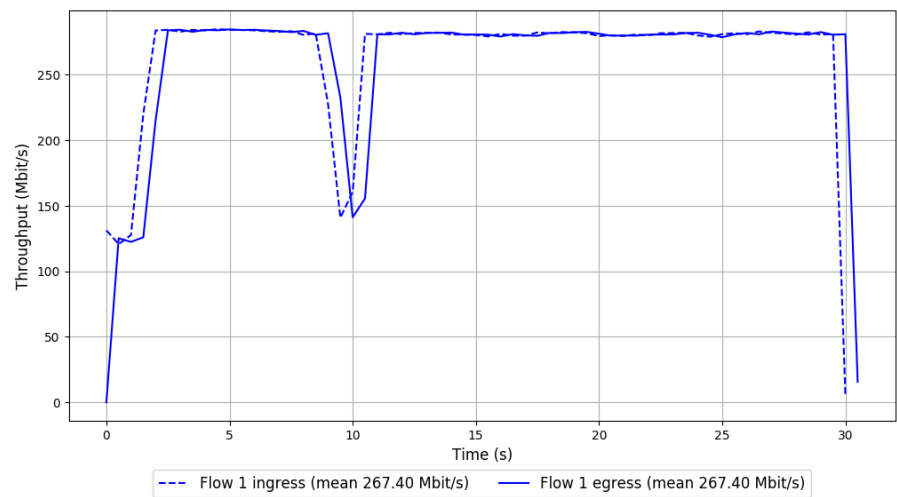
-- Flow 1:

Average throughput: 267.40 Mbit/s

95th percentile per-packet one-way delay: 18.811 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-03 11:59:24

End at: 2018-07-03 11:59:54

Local clock offset: 0.426 ms

Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-07-03 16:31:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.45 Mbit/s

95th percentile per-packet one-way delay: 18.205 ms

Loss rate: 0.00%

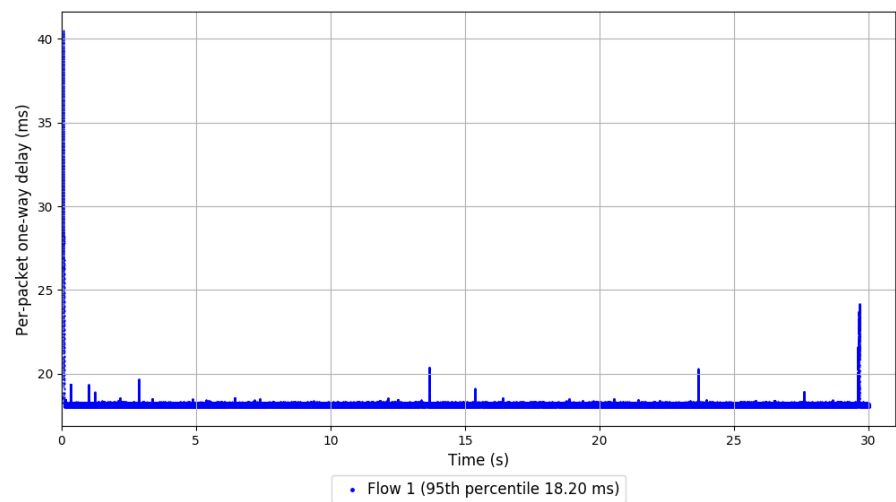
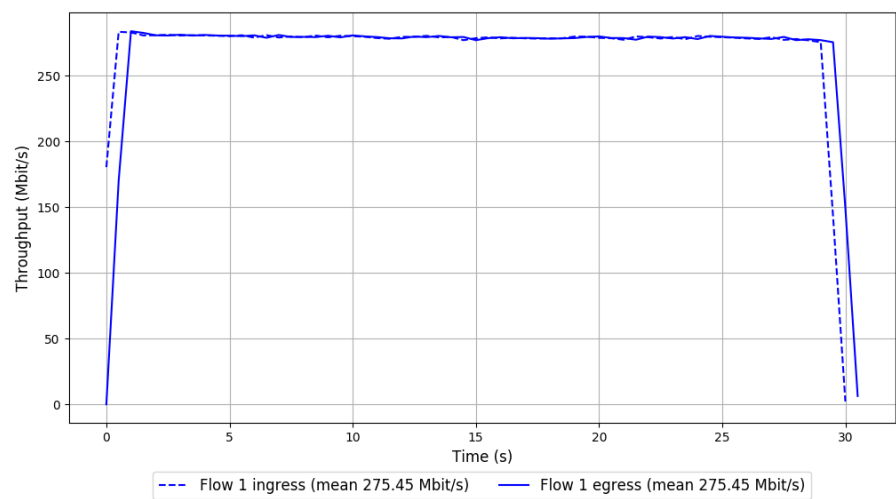
-- Flow 1:

Average throughput: 275.45 Mbit/s

95th percentile per-packet one-way delay: 18.205 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-03 12:25:05

End at: 2018-07-03 12:25:35

Local clock offset: -2.892 ms

Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-07-03 16:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.22 Mbit/s

95th percentile per-packet one-way delay: 18.098 ms

Loss rate: 0.00%

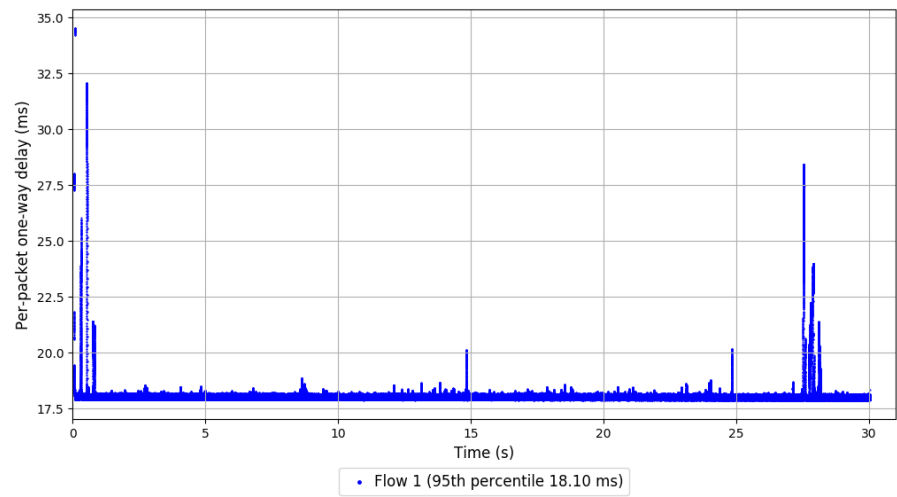
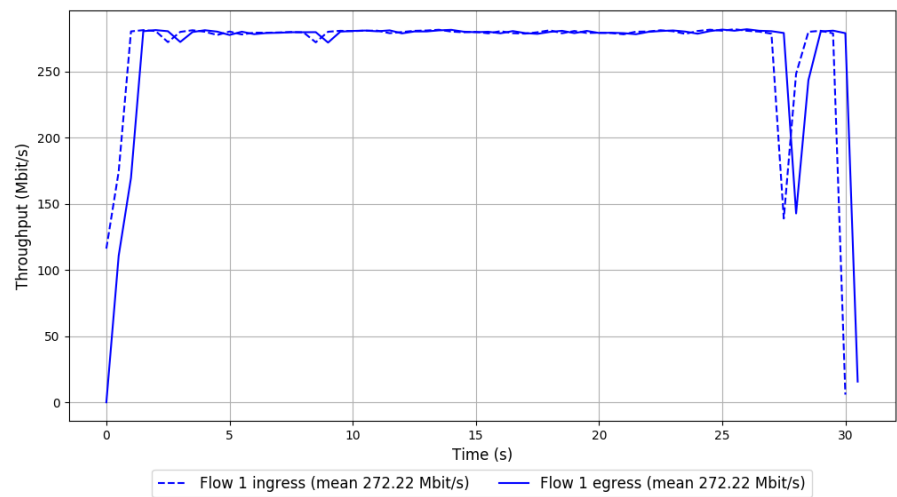
-- Flow 1:

Average throughput: 272.22 Mbit/s

95th percentile per-packet one-way delay: 18.098 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-03 12:50:55

End at: 2018-07-03 12:51:25

Local clock offset: 0.359 ms

Remote clock offset: -0.517 ms

Below is generated by plot.py at 2018-07-03 16:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.27 Mbit/s

95th percentile per-packet one-way delay: 18.768 ms

Loss rate: 0.00%

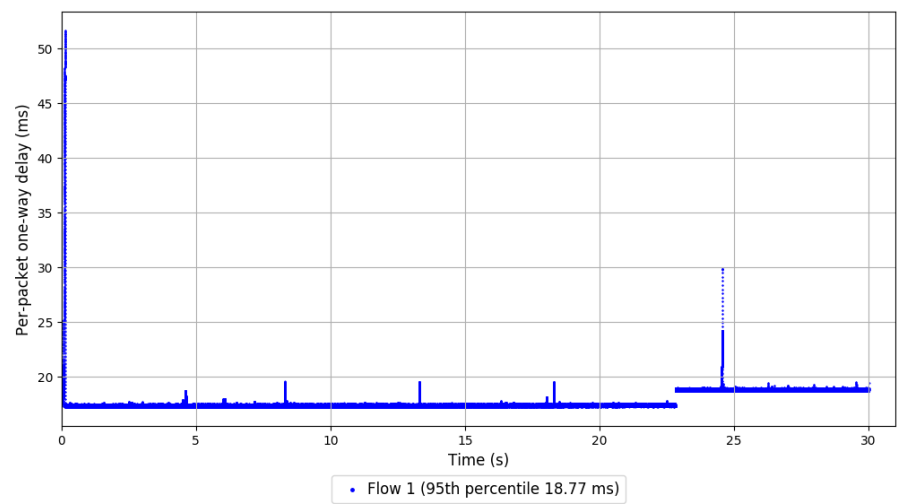
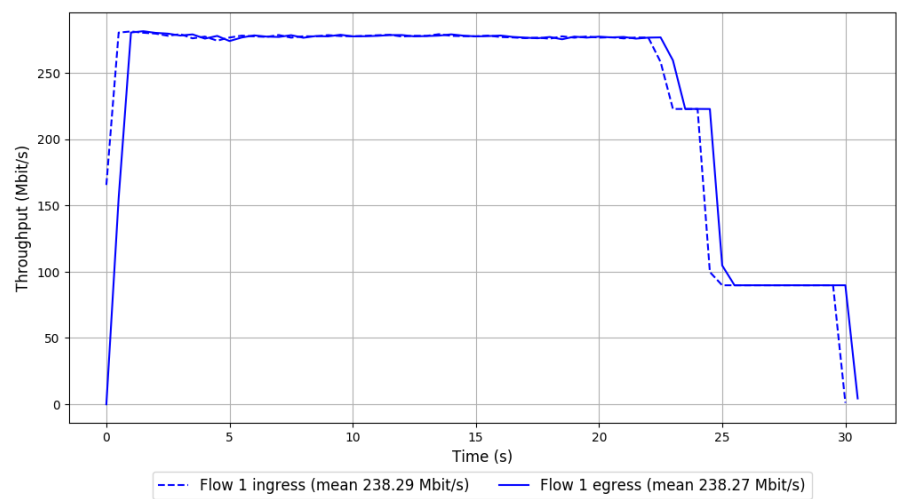
-- Flow 1:

Average throughput: 238.27 Mbit/s

95th percentile per-packet one-way delay: 18.768 ms

Loss rate: 0.00%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-03 13:16:41

End at: 2018-07-03 13:17:11

Local clock offset: 0.801 ms

Remote clock offset: 3.125 ms

Below is generated by plot.py at 2018-07-03 16:33:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.78 Mbit/s

95th percentile per-packet one-way delay: 18.671 ms

Loss rate: 0.00%

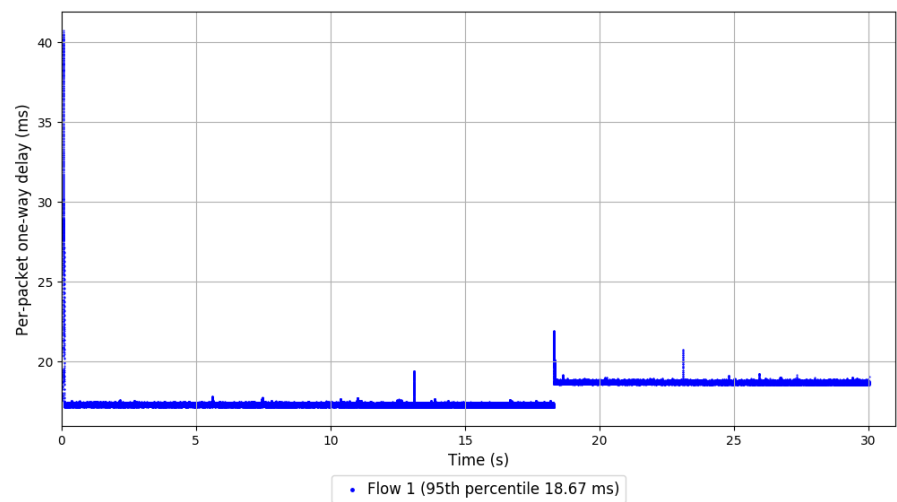
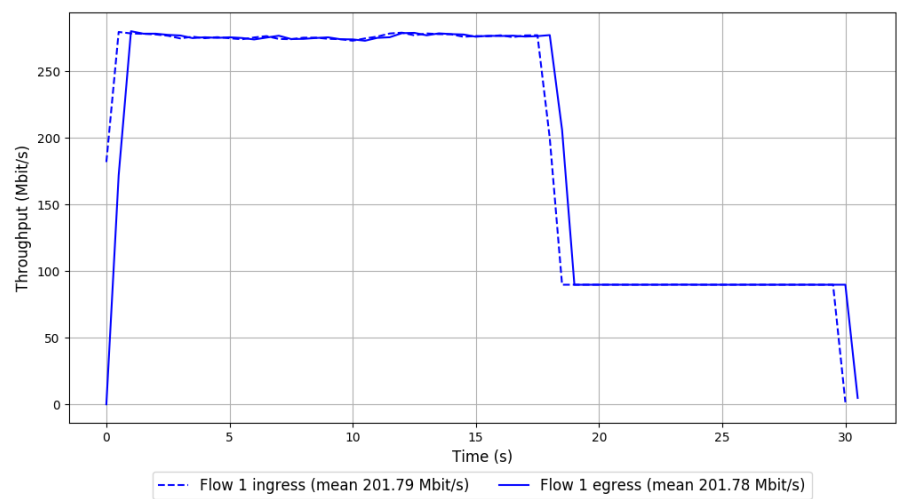
-- Flow 1:

Average throughput: 201.78 Mbit/s

95th percentile per-packet one-way delay: 18.671 ms

Loss rate: 0.00%

Run 7: Report of TaoVA-100x — Data Link



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-03 13:42:26

End at: 2018-07-03 13:42:56

Local clock offset: 0.62 ms

Remote clock offset: 1.634 ms

Below is generated by plot.py at 2018-07-03 16:36:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.51 Mbit/s

95th percentile per-packet one-way delay: 18.104 ms

Loss rate: 0.00%

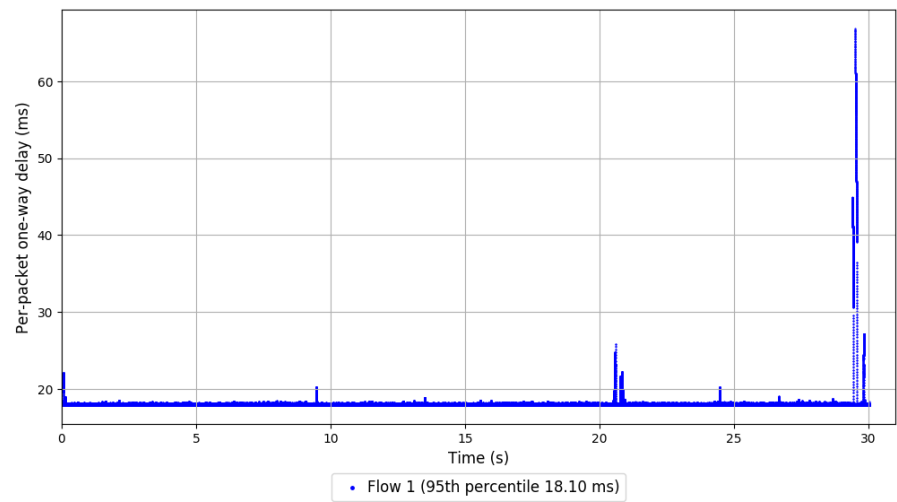
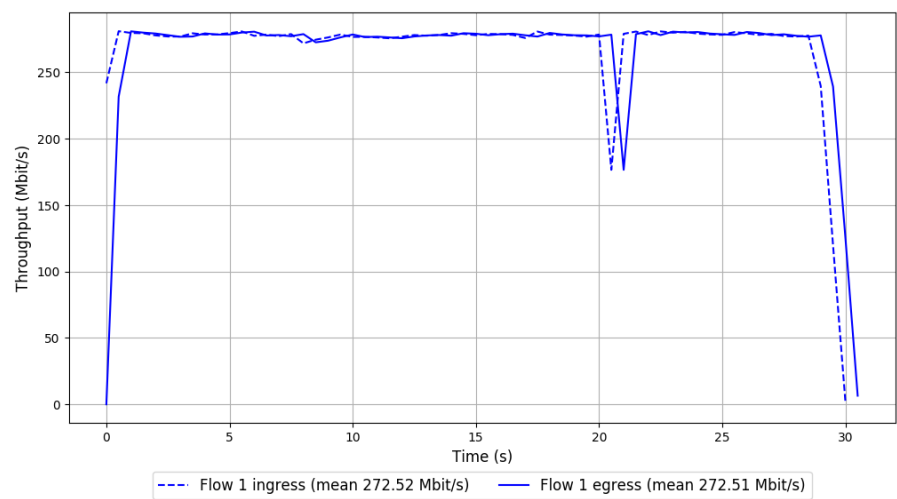
-- Flow 1:

Average throughput: 272.51 Mbit/s

95th percentile per-packet one-way delay: 18.104 ms

Loss rate: 0.00%

Run 8: Report of TaoVA-100x — Data Link



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-03 14:08:04

End at: 2018-07-03 14:08:35

Local clock offset: 0.6 ms

Remote clock offset: 0.546 ms

Below is generated by plot.py at 2018-07-03 16:37:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.48 Mbit/s

95th percentile per-packet one-way delay: 17.522 ms

Loss rate: 0.00%

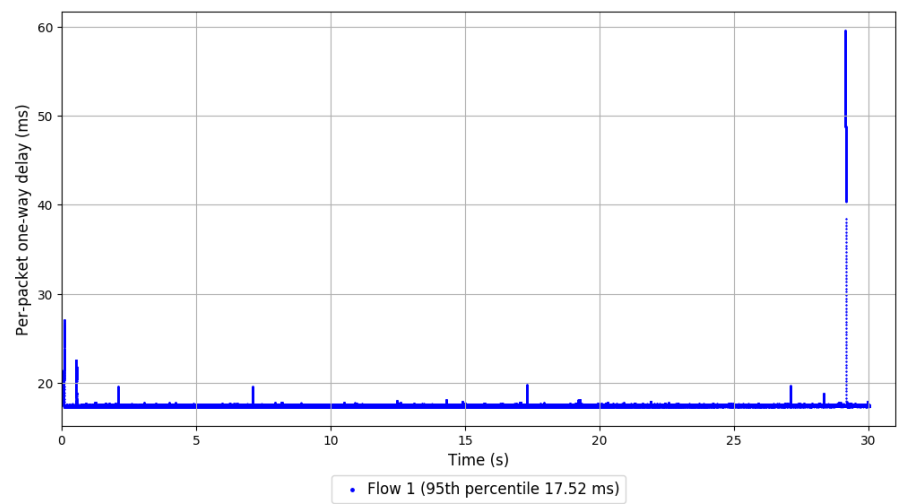
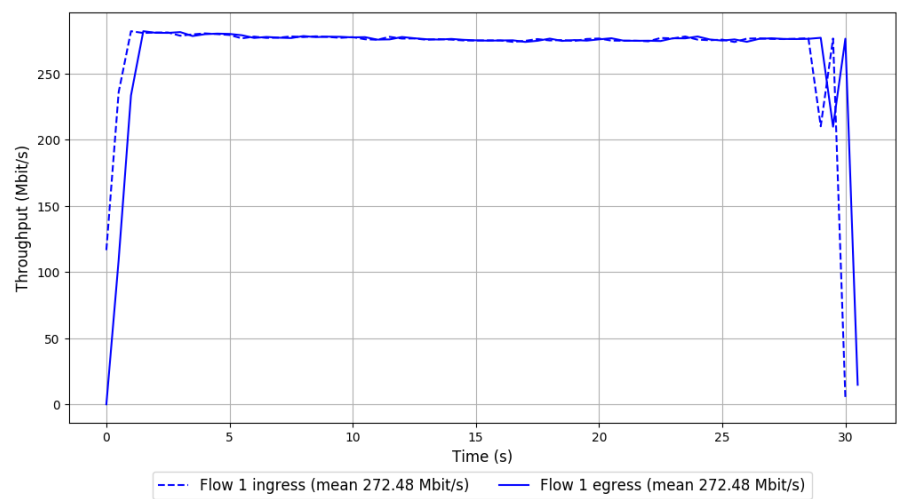
-- Flow 1:

Average throughput: 272.48 Mbit/s

95th percentile per-packet one-way delay: 17.522 ms

Loss rate: 0.00%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-03 14:33:59

End at: 2018-07-03 14:34:29

Local clock offset: 0.765 ms

Remote clock offset: -0.599 ms

Below is generated by plot.py at 2018-07-03 16:37:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.11 Mbit/s

95th percentile per-packet one-way delay: 18.078 ms

Loss rate: 0.00%

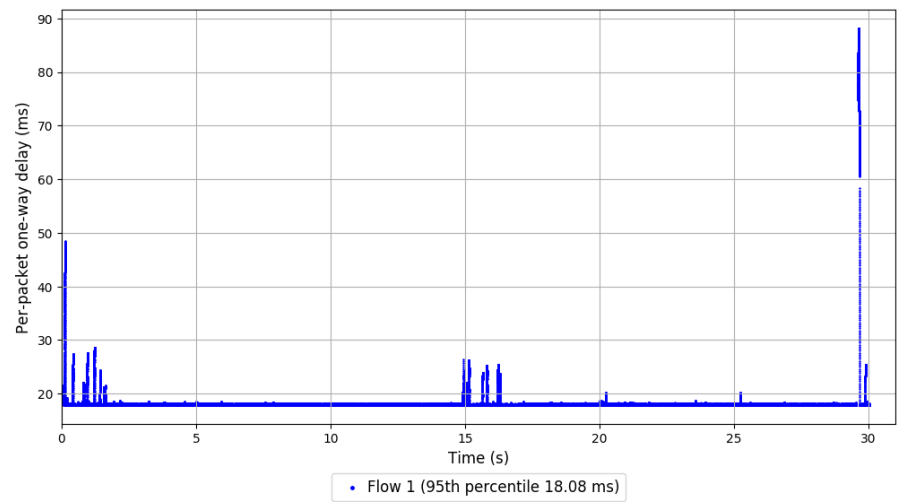
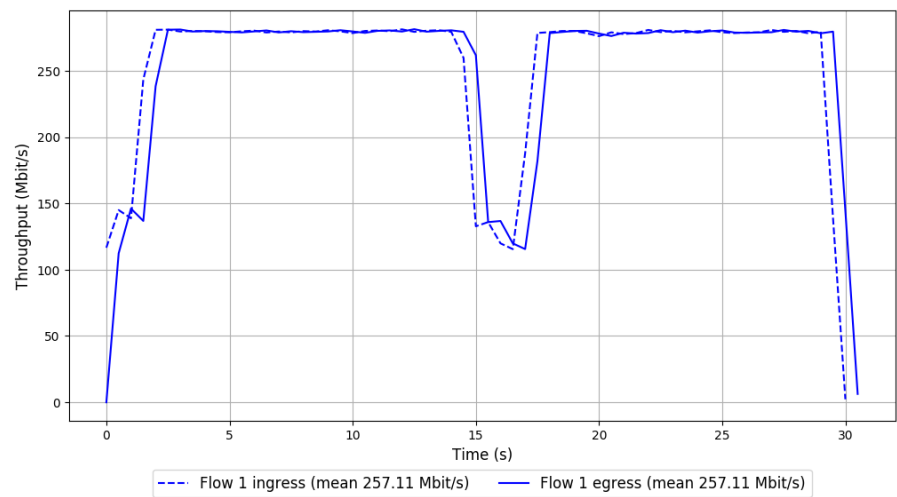
-- Flow 1:

Average throughput: 257.11 Mbit/s

95th percentile per-packet one-way delay: 18.078 ms

Loss rate: 0.00%

Run 10: Report of TaoVA-100x — Data Link



Run 1: Statistics of TCP Vegas

Start at: 2018-07-03 10:22:03

End at: 2018-07-03 10:22:33

Local clock offset: 3.813 ms

Remote clock offset: 3.215 ms

Below is generated by plot.py at 2018-07-03 16:37:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 20.165 ms

Loss rate: 0.00%

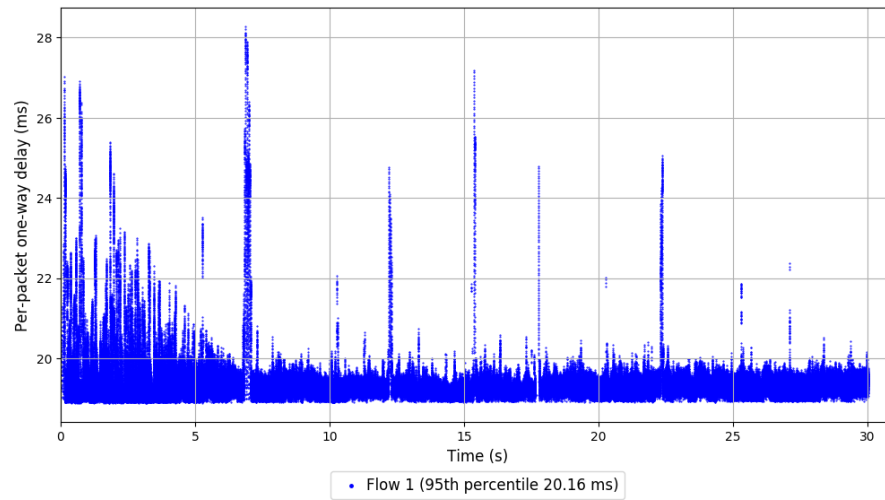
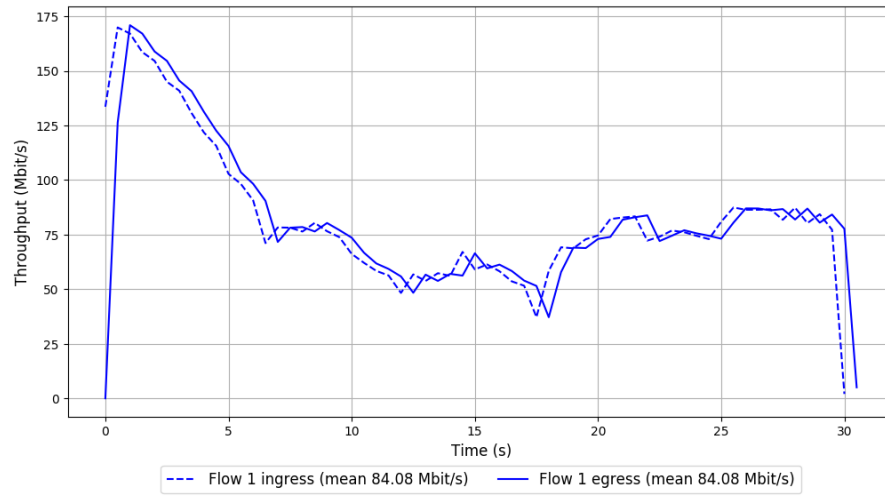
-- Flow 1:

Average throughput: 84.08 Mbit/s

95th percentile per-packet one-way delay: 20.165 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-03 10:47:43

End at: 2018-07-03 10:48:13

Local clock offset: 4.797 ms

Remote clock offset: 3.041 ms

Below is generated by plot.py at 2018-07-03 16:37:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.44 Mbit/s

95th percentile per-packet one-way delay: 21.304 ms

Loss rate: 0.10%

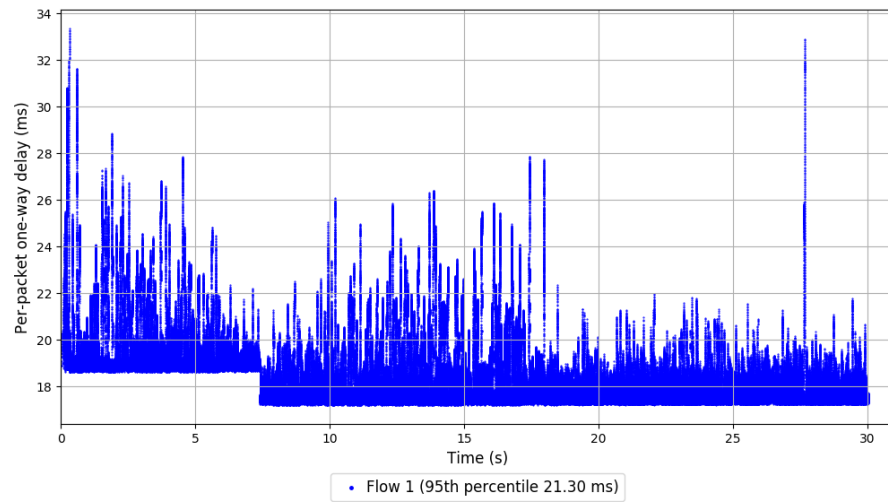
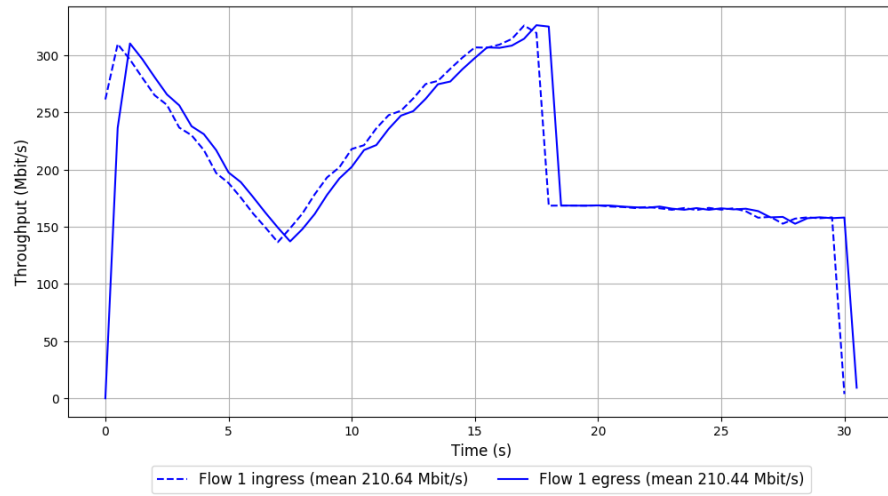
-- Flow 1:

Average throughput: 210.44 Mbit/s

95th percentile per-packet one-way delay: 21.304 ms

Loss rate: 0.10%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-03 11:13:36

End at: 2018-07-03 11:14:06

Local clock offset: 2.389 ms

Remote clock offset: 2.434 ms

Below is generated by plot.py at 2018-07-03 16:37:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.84 Mbit/s

95th percentile per-packet one-way delay: 23.248 ms

Loss rate: 0.01%

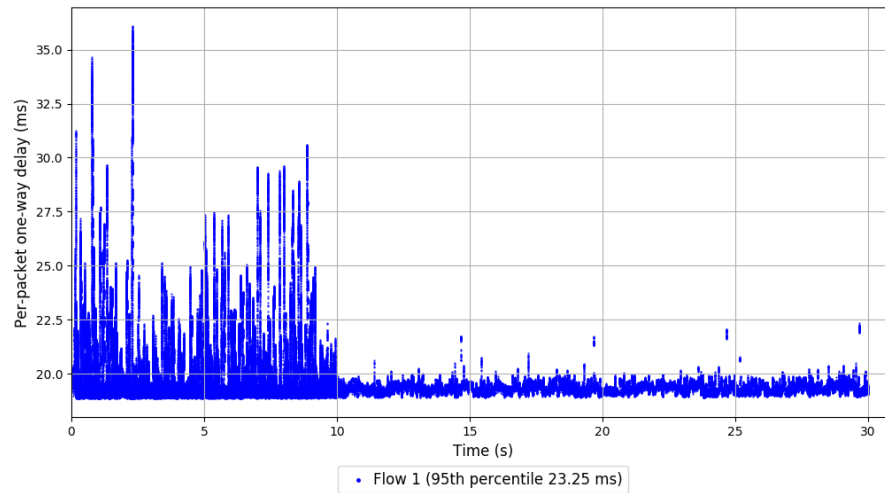
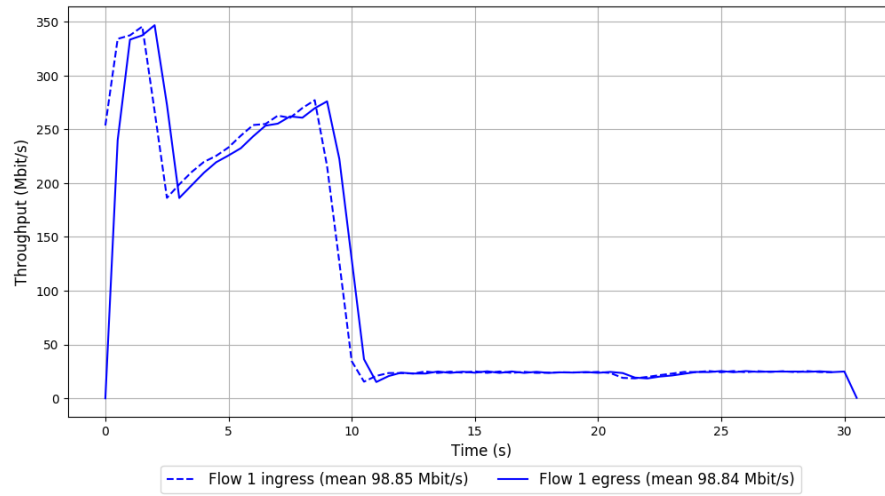
-- Flow 1:

Average throughput: 98.84 Mbit/s

95th percentile per-packet one-way delay: 23.248 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link

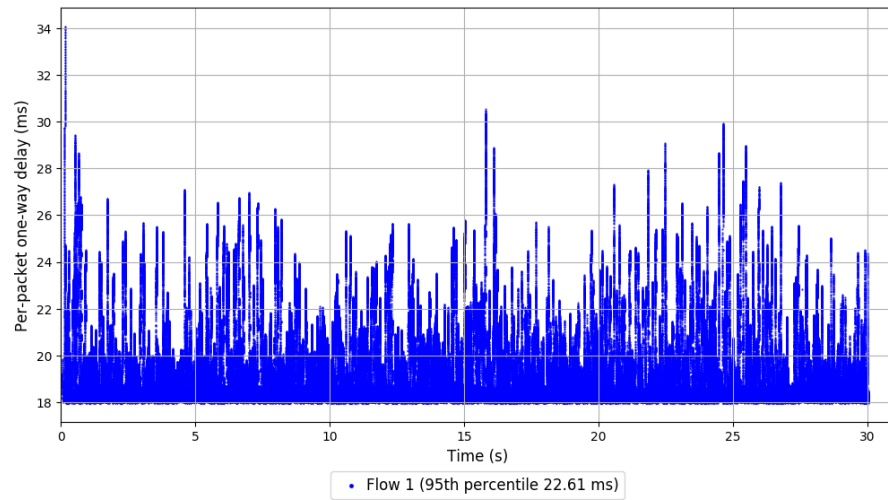
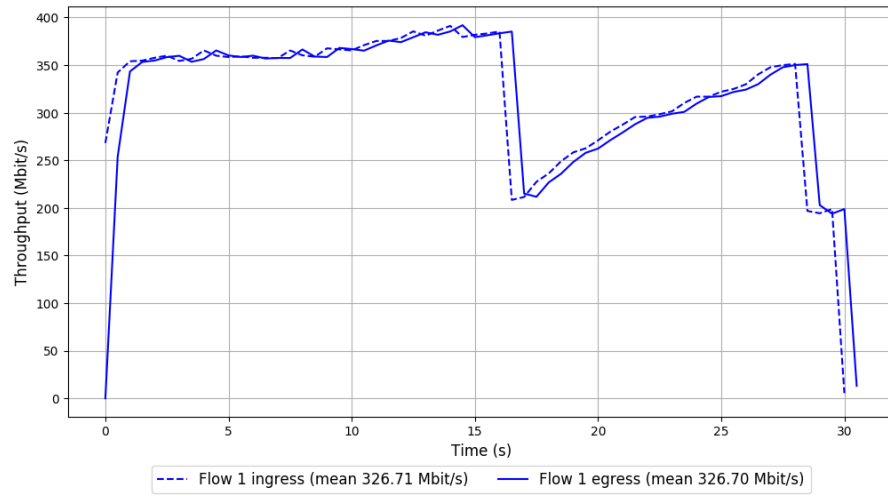


Run 4: Statistics of TCP Vegas

Start at: 2018-07-03 11:39:25
End at: 2018-07-03 11:39:55
Local clock offset: 0.707 ms
Remote clock offset: -0.812 ms

Below is generated by plot.py at 2018-07-03 16:37:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 326.70 Mbit/s
95th percentile per-packet one-way delay: 22.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 326.70 Mbit/s
95th percentile per-packet one-way delay: 22.611 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

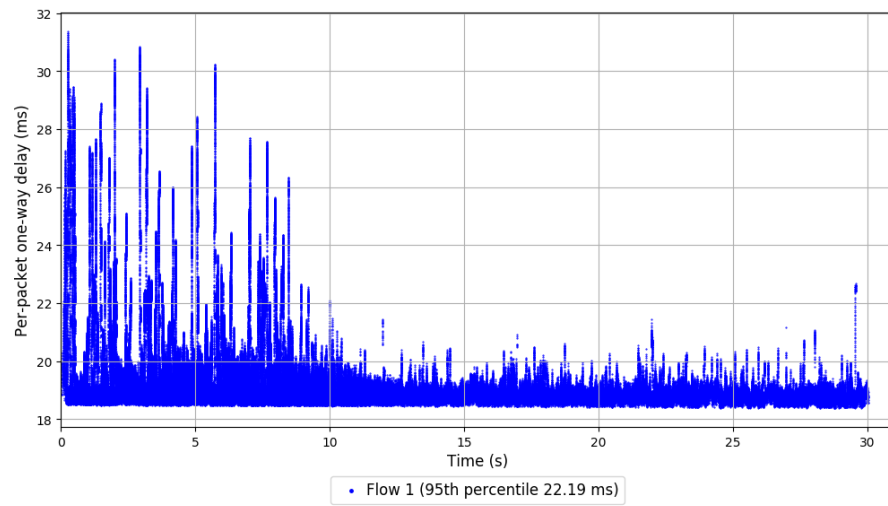
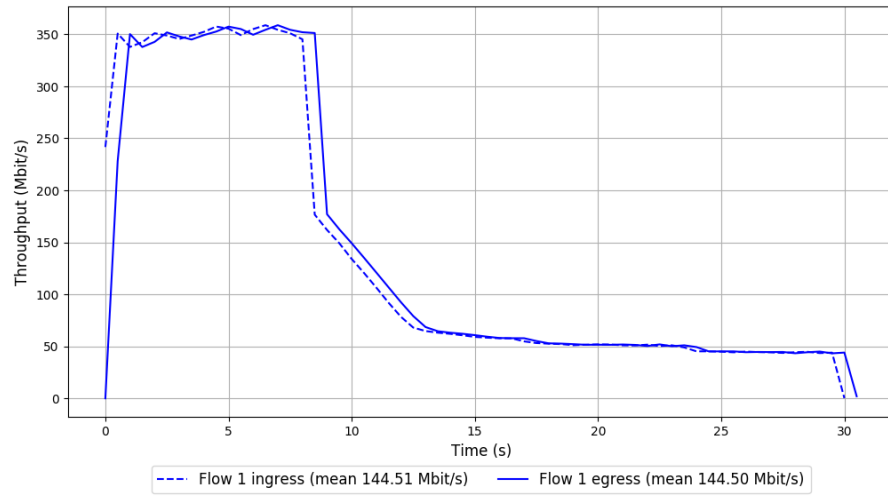


Run 5: Statistics of TCP Vegas

Start at: 2018-07-03 12:05:16
End at: 2018-07-03 12:05:46
Local clock offset: -0.195 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-07-03 16:37:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 144.50 Mbit/s
95th percentile per-packet one-way delay: 22.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.50 Mbit/s
95th percentile per-packet one-way delay: 22.188 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

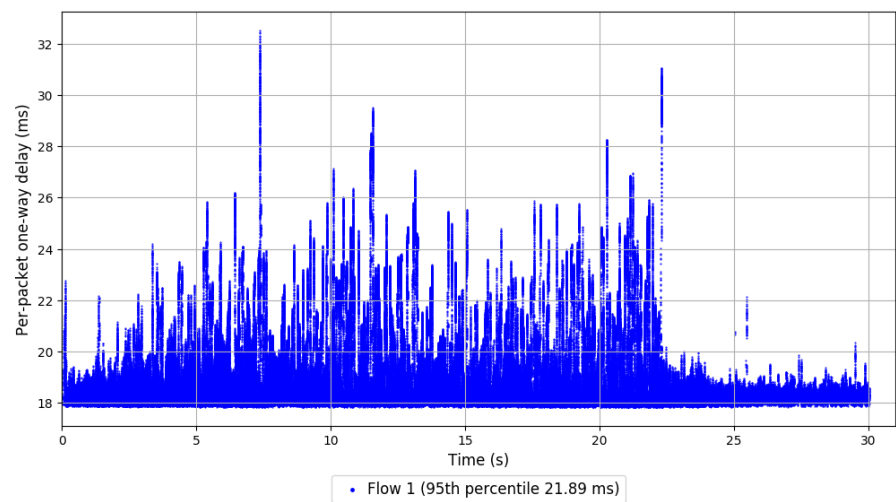
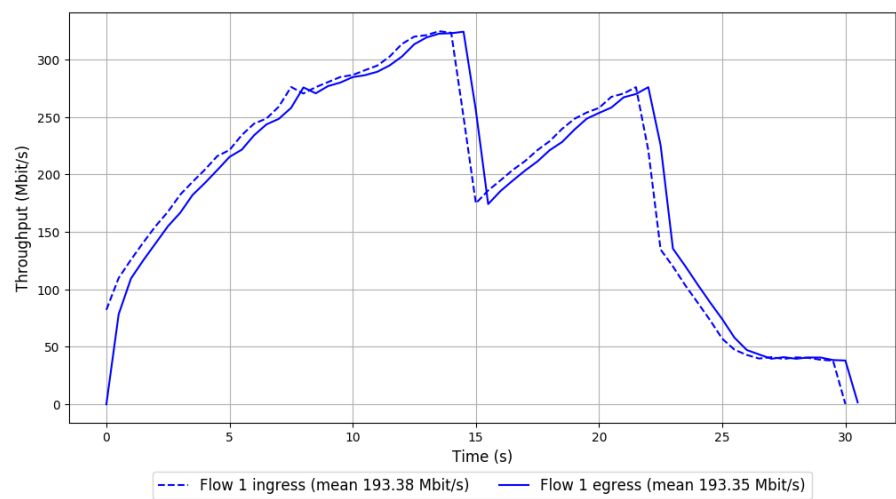


Run 6: Statistics of TCP Vegas

Start at: 2018-07-03 12:31:01
End at: 2018-07-03 12:31:31
Local clock offset: -3.236 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-07-03 16:37:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 193.35 Mbit/s
95th percentile per-packet one-way delay: 21.888 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 193.35 Mbit/s
95th percentile per-packet one-way delay: 21.888 ms
Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-03 12:56:44

End at: 2018-07-03 12:57:14

Local clock offset: 0.718 ms

Remote clock offset: 0.501 ms

Below is generated by plot.py at 2018-07-03 16:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 20.500 ms

Loss rate: 0.49%

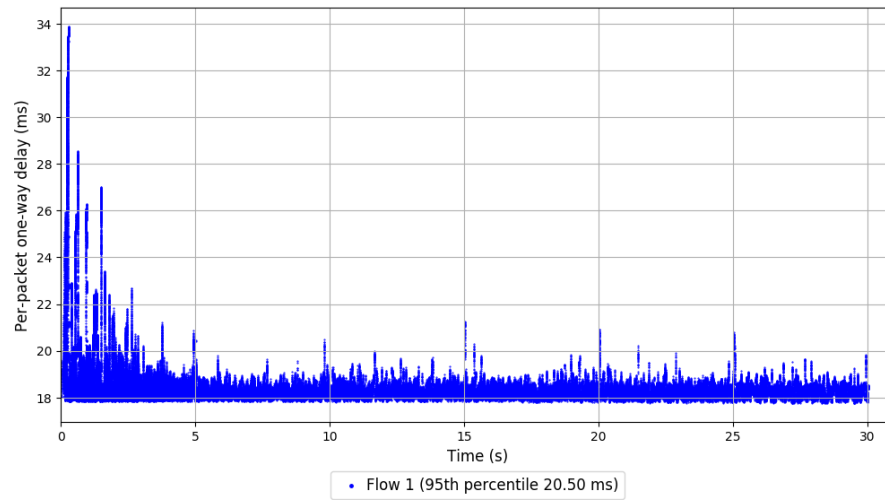
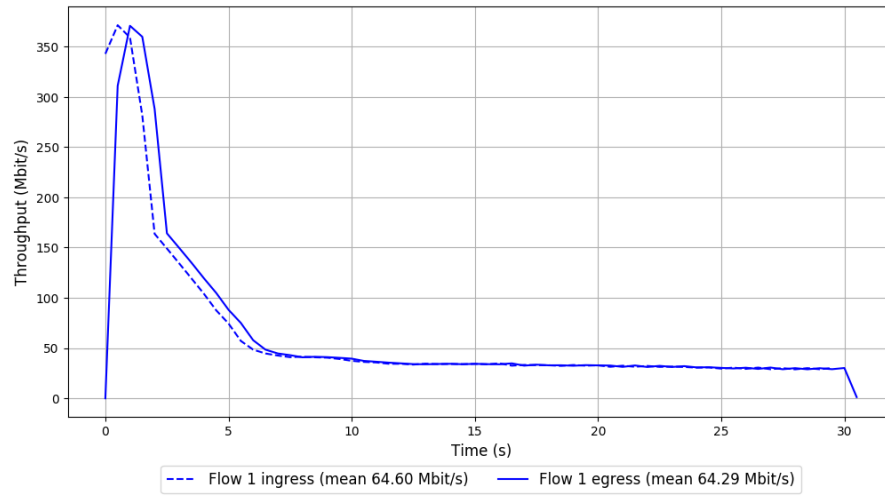
-- Flow 1:

Average throughput: 64.29 Mbit/s

95th percentile per-packet one-way delay: 20.500 ms

Loss rate: 0.49%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-03 13:22:32

End at: 2018-07-03 13:23:02

Local clock offset: 0.835 ms

Remote clock offset: 3.383 ms

Below is generated by plot.py at 2018-07-03 16:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.59 Mbit/s

95th percentile per-packet one-way delay: 23.386 ms

Loss rate: 0.01%

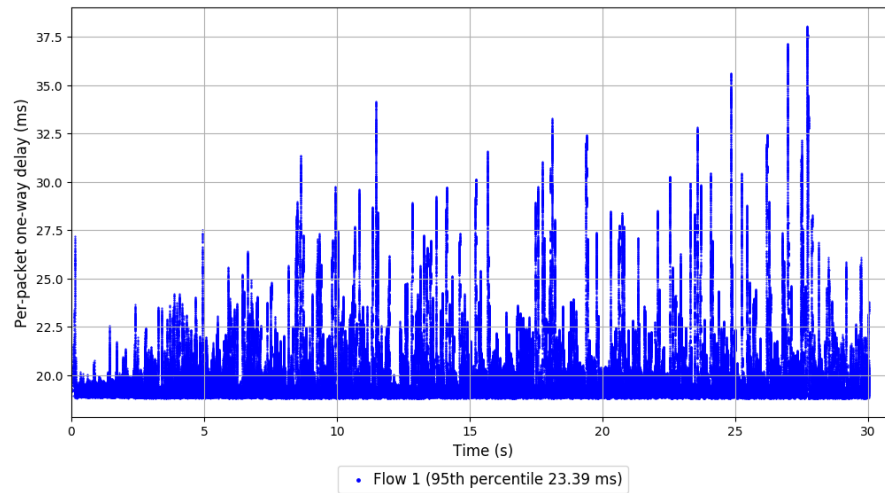
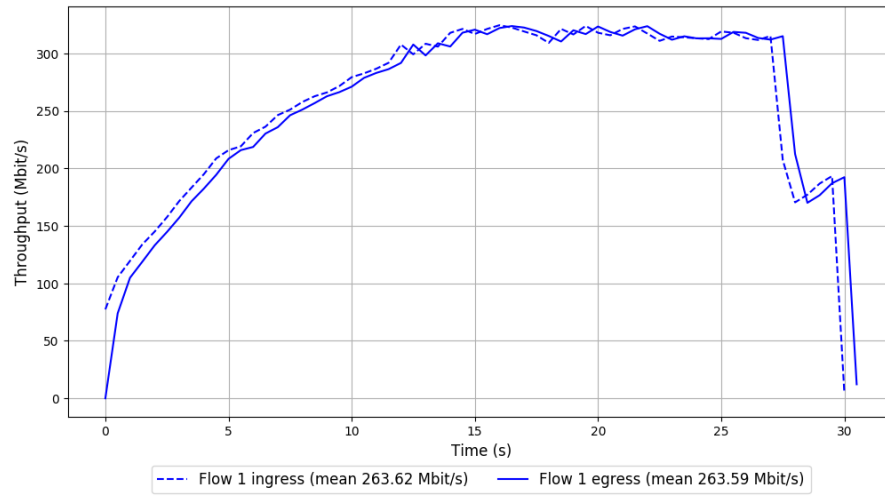
-- Flow 1:

Average throughput: 263.59 Mbit/s

95th percentile per-packet one-way delay: 23.386 ms

Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-03 13:48:17

End at: 2018-07-03 13:48:47

Local clock offset: 0.583 ms

Remote clock offset: 1.418 ms

Below is generated by plot.py at 2018-07-03 16:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.13 Mbit/s

95th percentile per-packet one-way delay: 22.585 ms

Loss rate: 0.28%

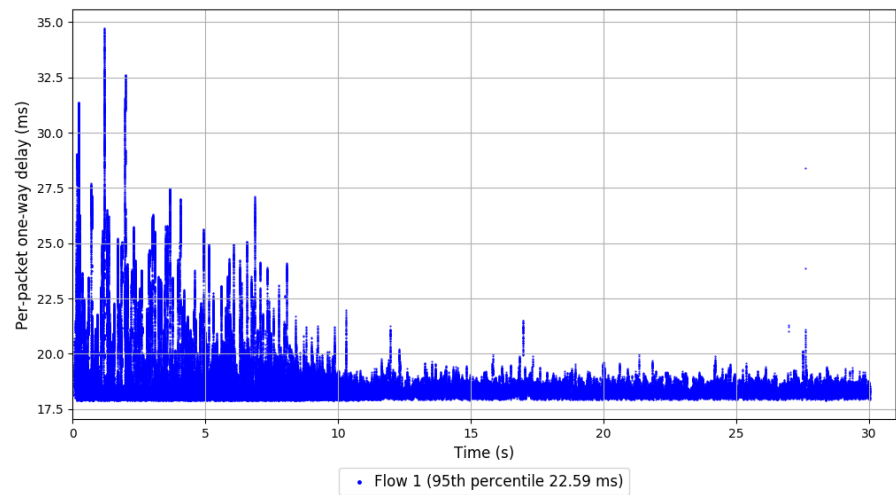
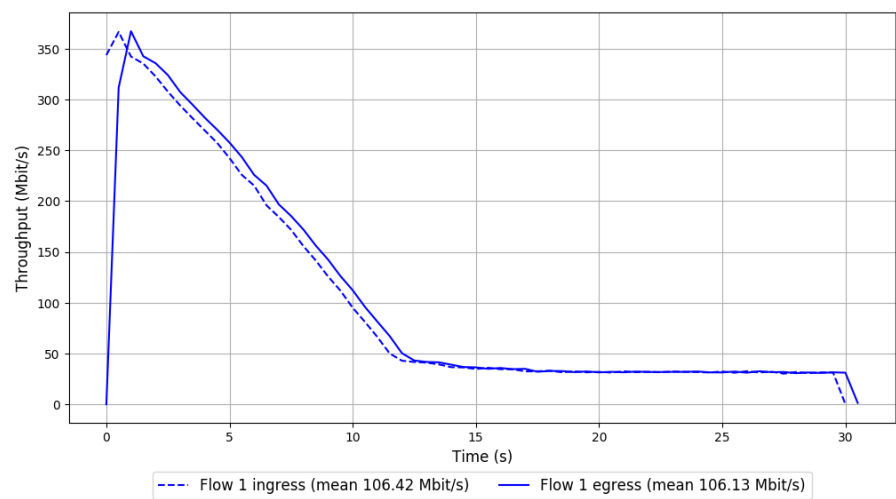
-- Flow 1:

Average throughput: 106.13 Mbit/s

95th percentile per-packet one-way delay: 22.585 ms

Loss rate: 0.28%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-03 14:14:01

End at: 2018-07-03 14:14:31

Local clock offset: 0.655 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-07-03 16:37:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.08 Mbit/s

95th percentile per-packet one-way delay: 22.623 ms

Loss rate: 0.03%

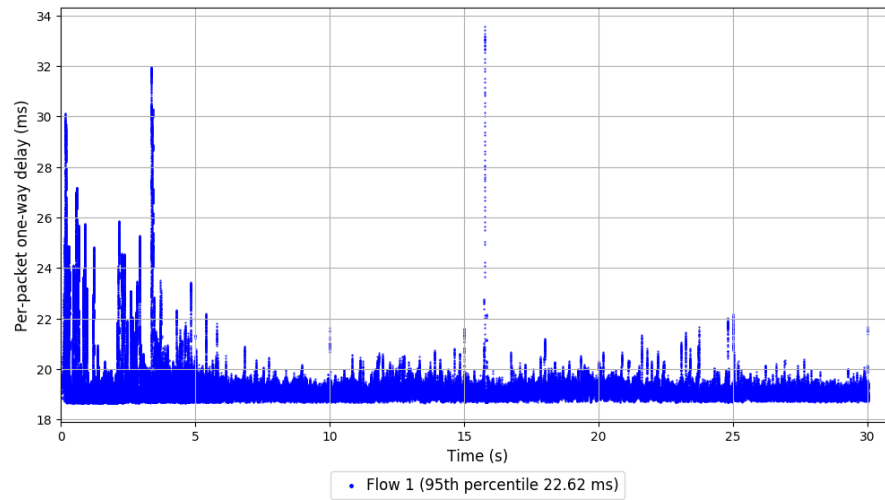
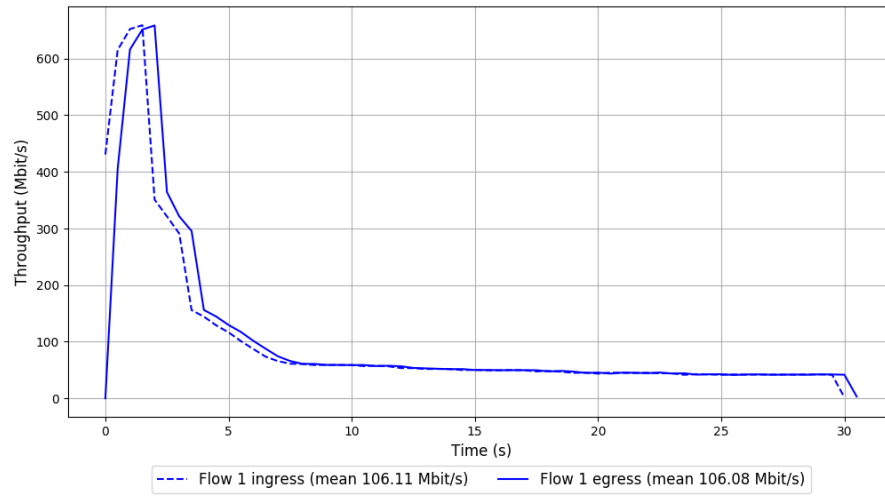
-- Flow 1:

Average throughput: 106.08 Mbit/s

95th percentile per-packet one-way delay: 22.623 ms

Loss rate: 0.03%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-03 10:26:23

End at: 2018-07-03 10:26:53

Local clock offset: 3.947 ms

Remote clock offset: 3.123 ms

Below is generated by plot.py at 2018-07-03 16:38:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.87 Mbit/s

95th percentile per-packet one-way delay: 54.807 ms

Loss rate: 18.73%

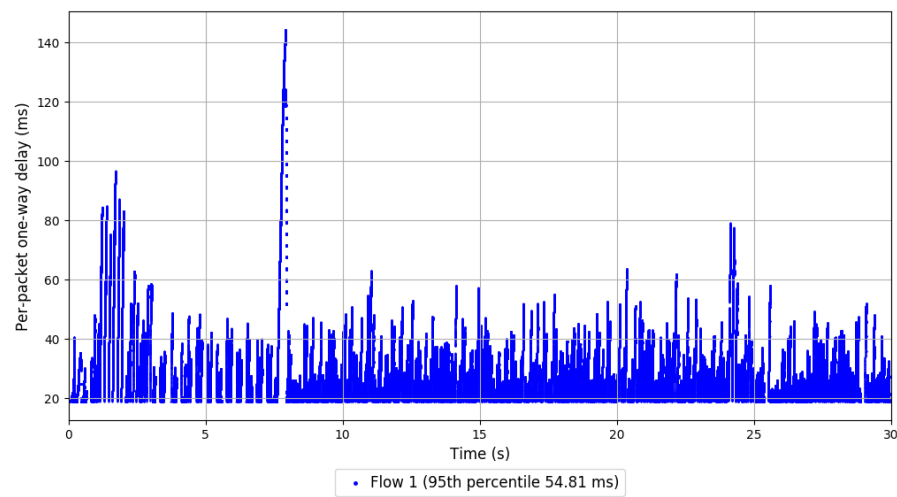
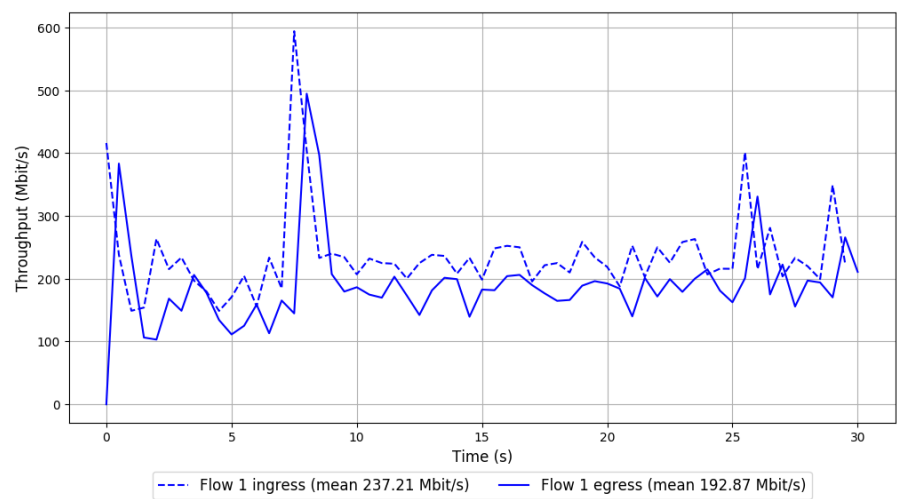
-- Flow 1:

Average throughput: 192.87 Mbit/s

95th percentile per-packet one-way delay: 54.807 ms

Loss rate: 18.73%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-03 10:52:06

End at: 2018-07-03 10:52:36

Local clock offset: 5.129 ms

Remote clock offset: 3.108 ms

Below is generated by plot.py at 2018-07-03 16:38:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.16 Mbit/s

95th percentile per-packet one-way delay: 47.139 ms

Loss rate: 22.12%

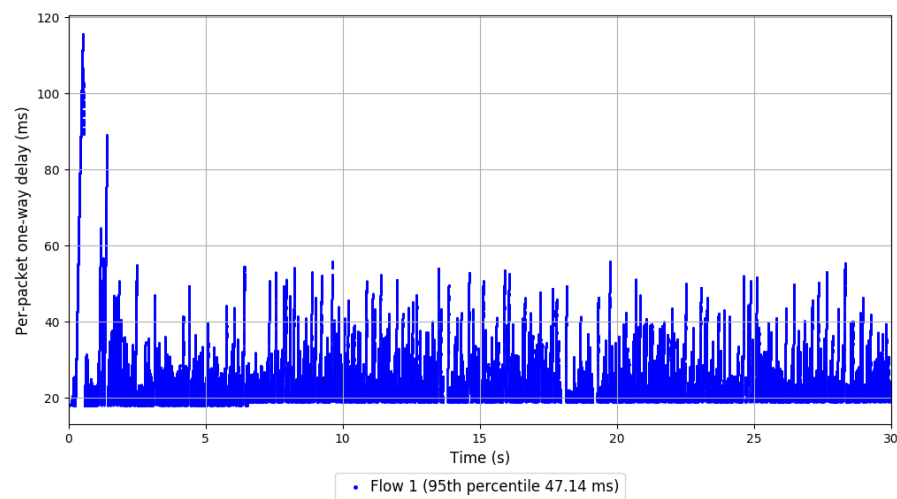
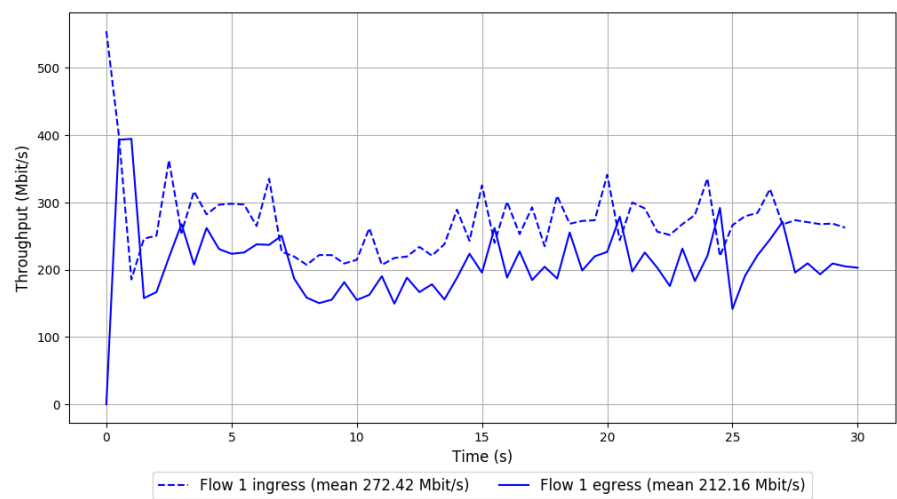
-- Flow 1:

Average throughput: 212.16 Mbit/s

95th percentile per-packet one-way delay: 47.139 ms

Loss rate: 22.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-03 11:17:57

End at: 2018-07-03 11:18:27

Local clock offset: 1.676 ms

Remote clock offset: 1.23 ms

Below is generated by plot.py at 2018-07-03 16:39:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.13 Mbit/s

95th percentile per-packet one-way delay: 38.649 ms

Loss rate: 13.47%

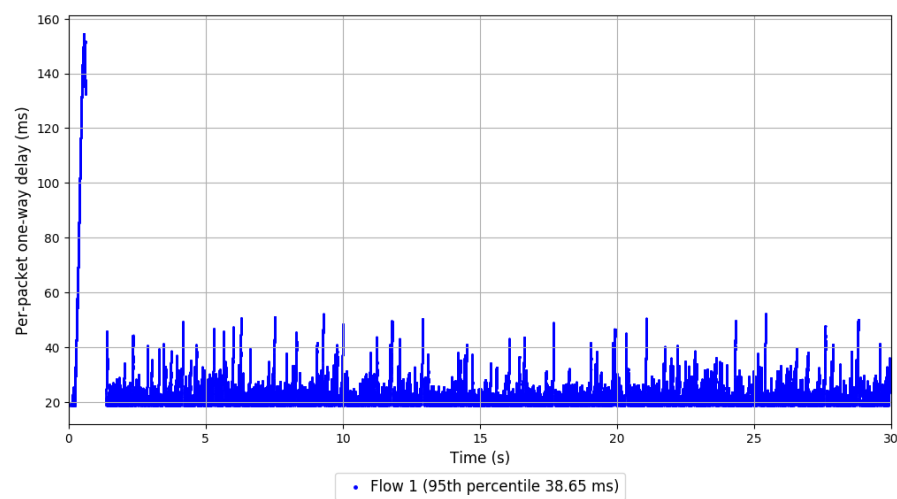
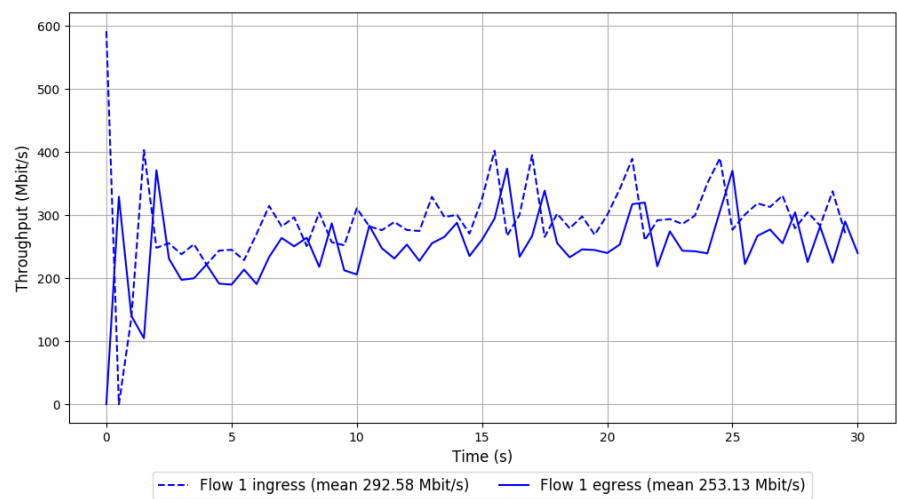
-- Flow 1:

Average throughput: 253.13 Mbit/s

95th percentile per-packet one-way delay: 38.649 ms

Loss rate: 13.47%

Run 3: Report of Verus — Data Link

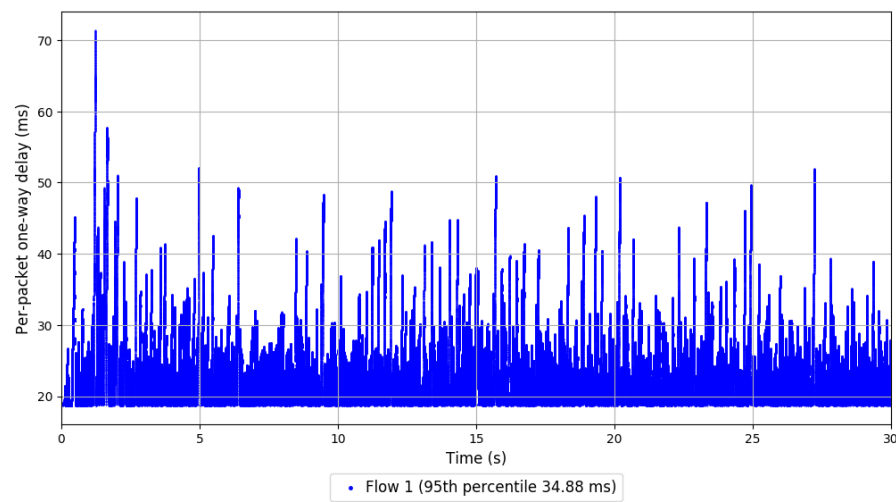
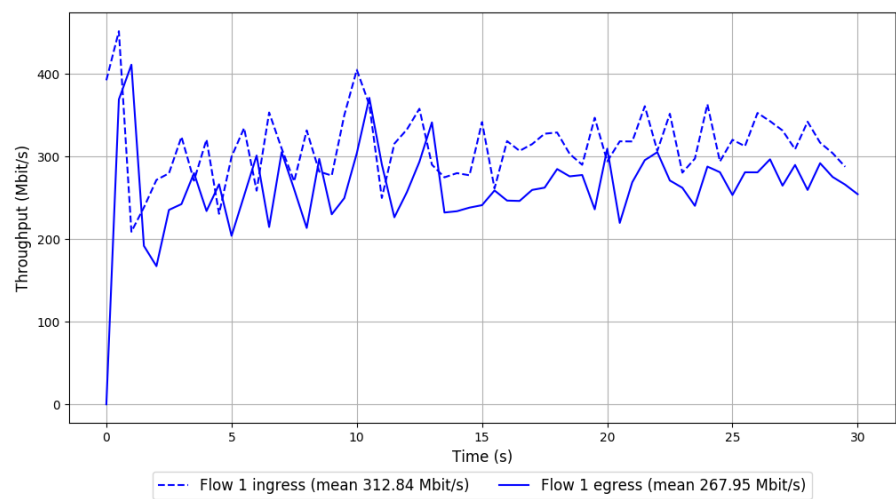


Run 4: Statistics of Verus

Start at: 2018-07-03 11:43:52
End at: 2018-07-03 11:44:22
Local clock offset: 0.613 ms
Remote clock offset: -0.927 ms

Below is generated by plot.py at 2018-07-03 16:40:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 267.95 Mbit/s
95th percentile per-packet one-way delay: 34.882 ms
Loss rate: 14.34%
-- Flow 1:
Average throughput: 267.95 Mbit/s
95th percentile per-packet one-way delay: 34.882 ms
Loss rate: 14.34%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-03 12:09:38

End at: 2018-07-03 12:10:08

Local clock offset: -1.15 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2018-07-03 16:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.57 Mbit/s

95th percentile per-packet one-way delay: 40.513 ms

Loss rate: 18.89%

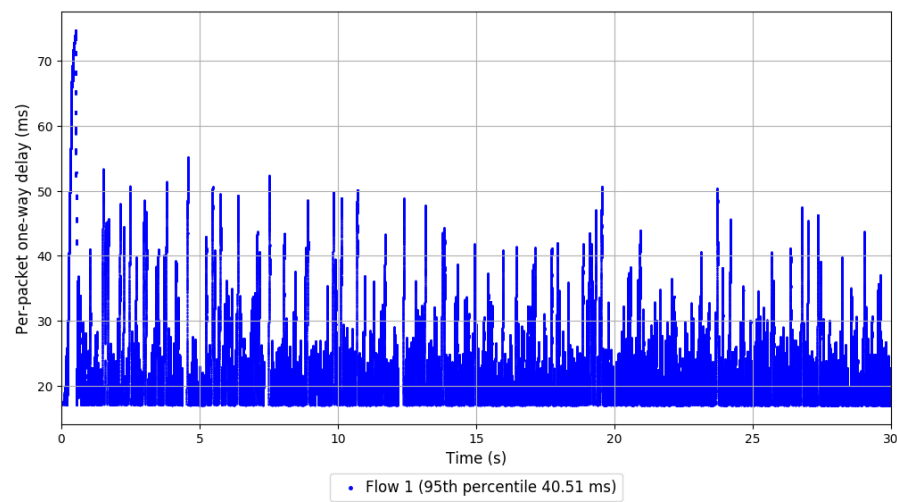
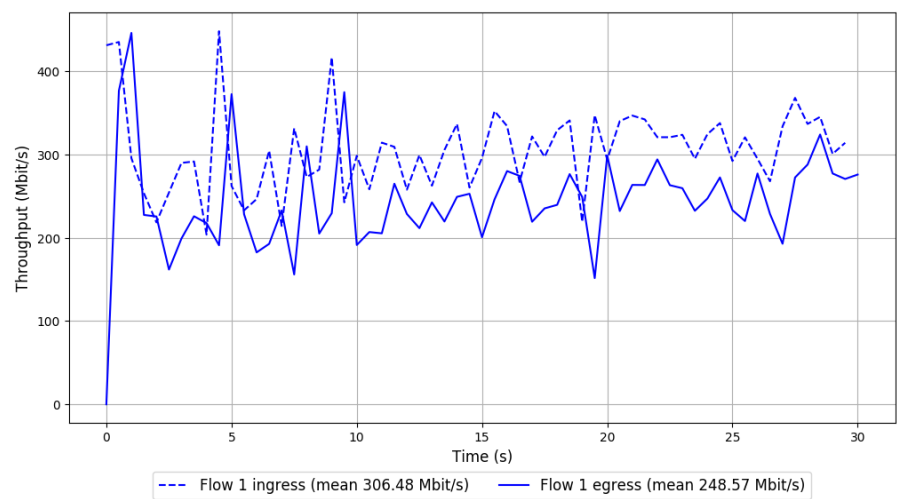
-- Flow 1:

Average throughput: 248.57 Mbit/s

95th percentile per-packet one-way delay: 40.513 ms

Loss rate: 18.89%

Run 5: Report of Verus — Data Link

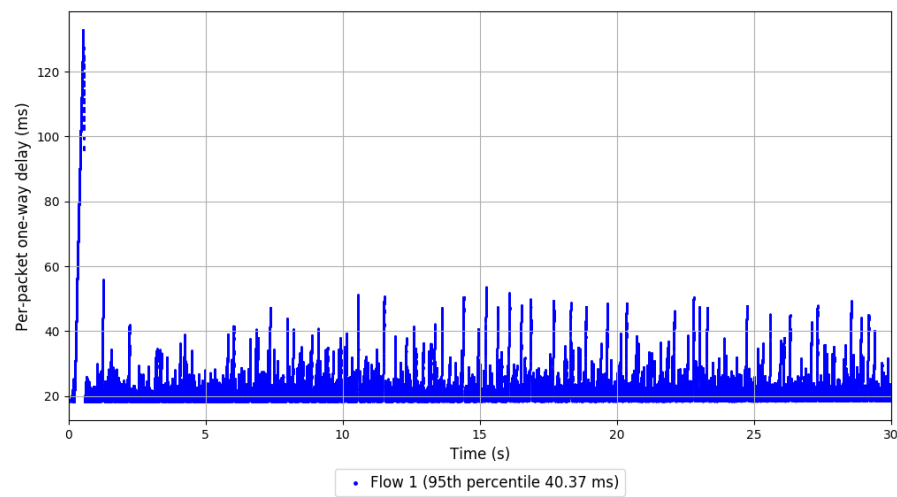
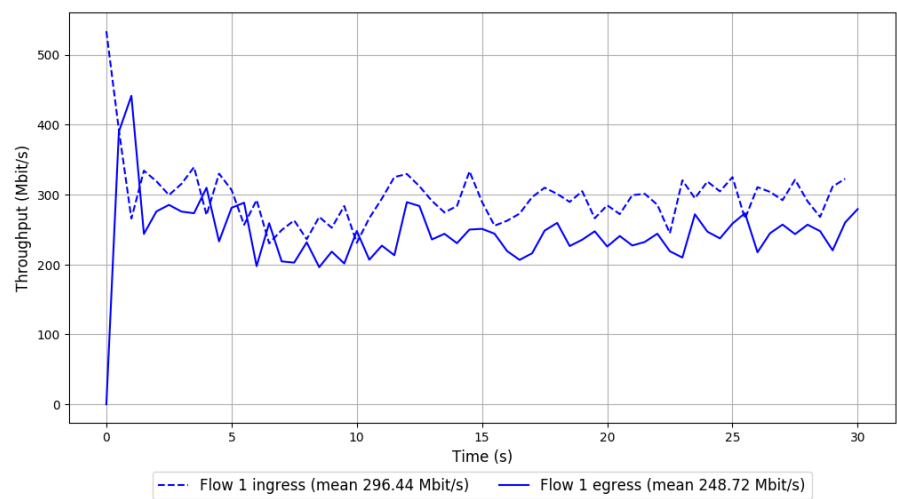


Run 6: Statistics of Verus

Start at: 2018-07-03 12:35:26
End at: 2018-07-03 12:35:56
Local clock offset: -2.613 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-07-03 16:40:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 248.72 Mbit/s
95th percentile per-packet one-way delay: 40.366 ms
Loss rate: 16.09%
-- Flow 1:
Average throughput: 248.72 Mbit/s
95th percentile per-packet one-way delay: 40.366 ms
Loss rate: 16.09%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-03 13:01:09

End at: 2018-07-03 13:01:39

Local clock offset: 0.888 ms

Remote clock offset: 1.571 ms

Below is generated by plot.py at 2018-07-03 16:40:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.70 Mbit/s

95th percentile per-packet one-way delay: 40.868 ms

Loss rate: 20.62%

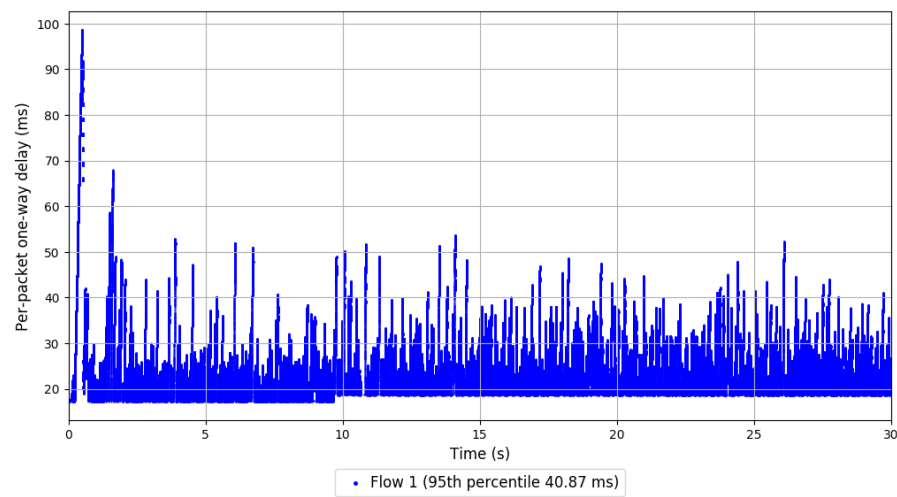
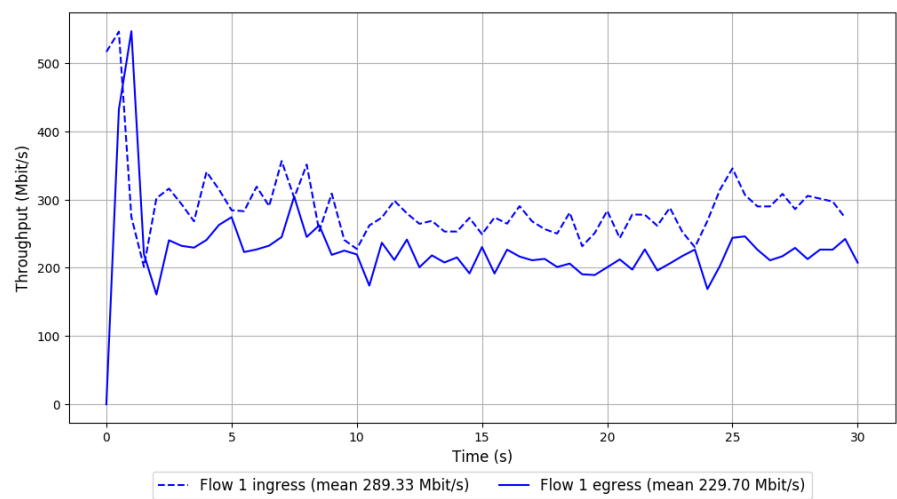
-- Flow 1:

Average throughput: 229.70 Mbit/s

95th percentile per-packet one-way delay: 40.868 ms

Loss rate: 20.62%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-03 13:26:57

End at: 2018-07-03 13:27:27

Local clock offset: 0.78 ms

Remote clock offset: 3.565 ms

Below is generated by plot.py at 2018-07-03 16:40:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.22 Mbit/s

95th percentile per-packet one-way delay: 46.942 ms

Loss rate: 7.42%

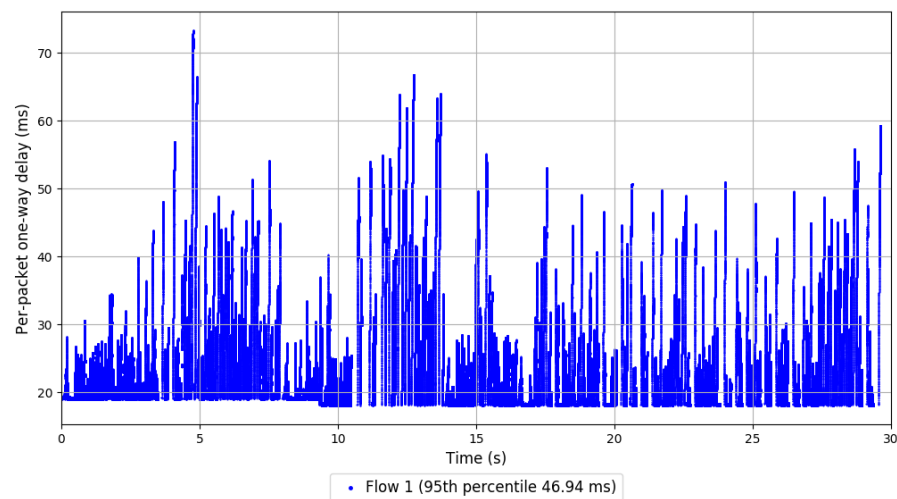
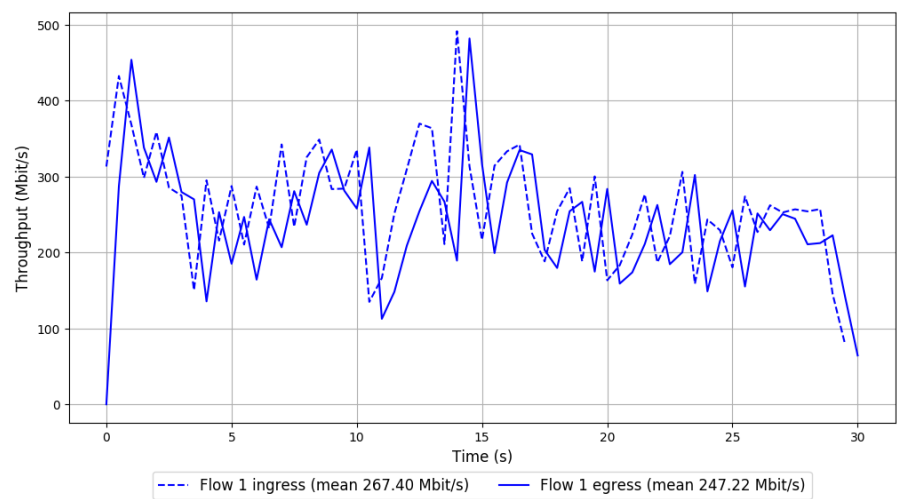
-- Flow 1:

Average throughput: 247.22 Mbit/s

95th percentile per-packet one-way delay: 46.942 ms

Loss rate: 7.42%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-03 13:52:38

End at: 2018-07-03 13:53:08

Local clock offset: 0.546 ms

Remote clock offset: 1.392 ms

Below is generated by plot.py at 2018-07-03 16:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.78 Mbit/s

95th percentile per-packet one-way delay: 50.525 ms

Loss rate: 26.59%

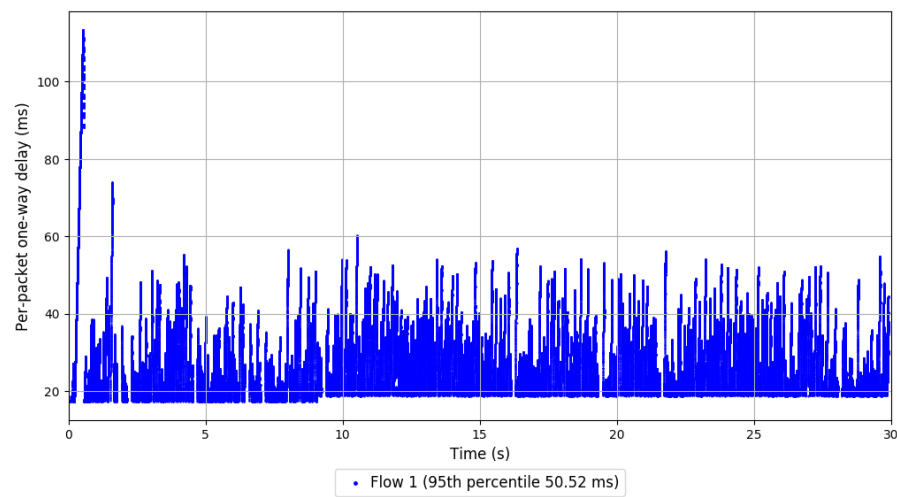
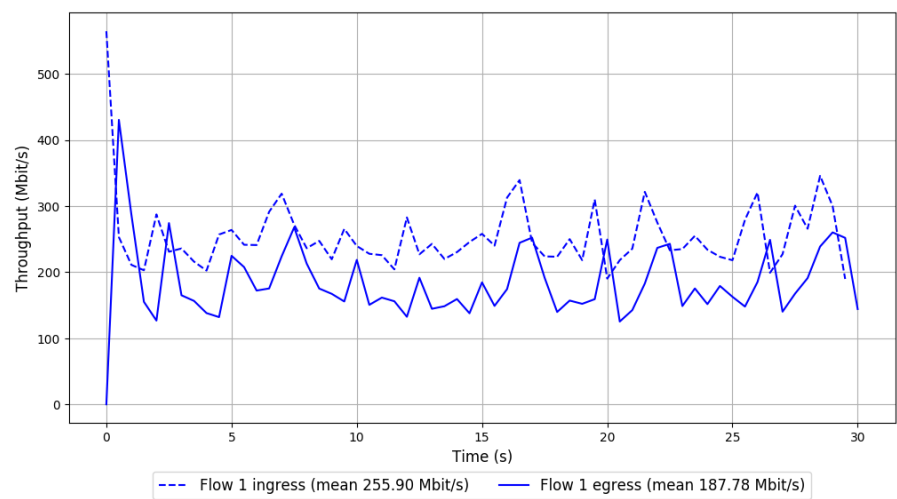
-- Flow 1:

Average throughput: 187.78 Mbit/s

95th percentile per-packet one-way delay: 50.525 ms

Loss rate: 26.59%

Run 9: Report of Verus — Data Link

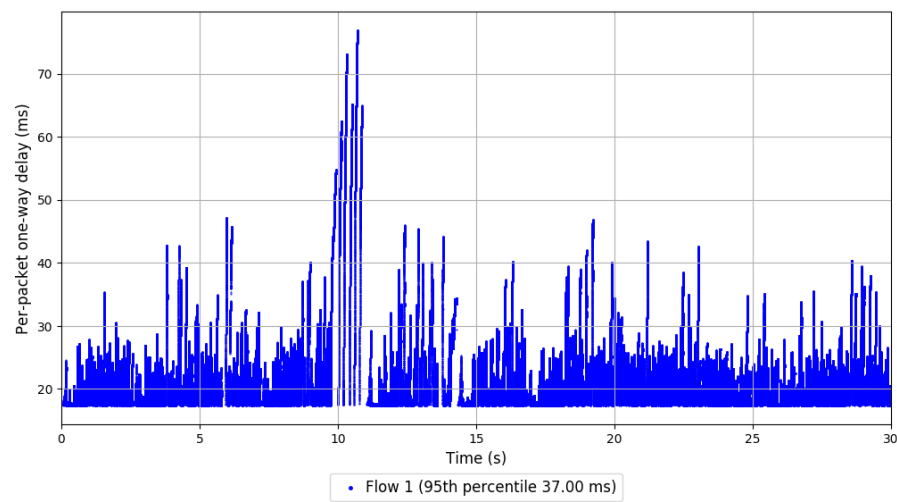
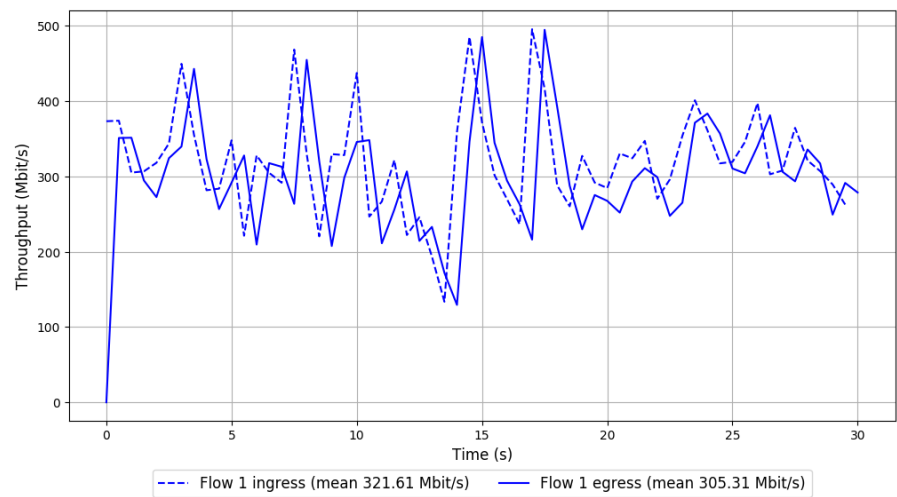


Run 10: Statistics of Verus

Start at: 2018-07-03 14:18:22
End at: 2018-07-03 14:18:52
Local clock offset: 0.603 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-07-03 16:42:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 305.31 Mbit/s
95th percentile per-packet one-way delay: 37.003 ms
Loss rate: 5.07%
-- Flow 1:
Average throughput: 305.31 Mbit/s
95th percentile per-packet one-way delay: 37.003 ms
Loss rate: 5.07%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-03 10:27:50

End at: 2018-07-03 10:28:20

Local clock offset: 4.142 ms

Remote clock offset: 3.192 ms

Below is generated by plot.py at 2018-07-03 16:45:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 442.99 Mbit/s

95th percentile per-packet one-way delay: 38.154 ms

Loss rate: 0.00%

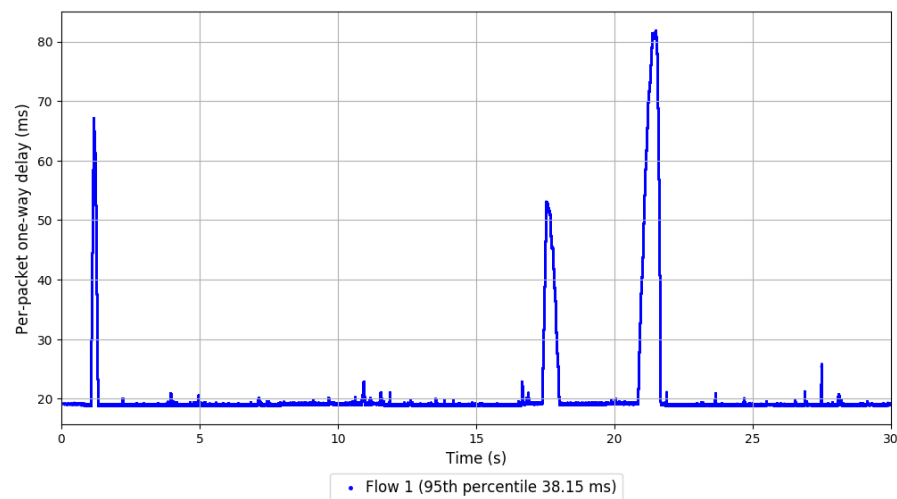
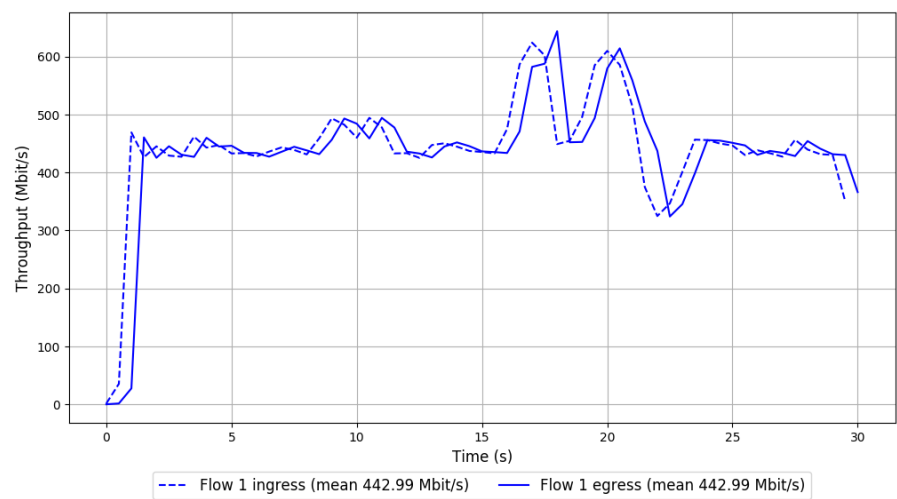
-- Flow 1:

Average throughput: 442.99 Mbit/s

95th percentile per-packet one-way delay: 38.154 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-03 10:53:33

End at: 2018-07-03 10:54:03

Local clock offset: 5.237 ms

Remote clock offset: 3.15 ms

Below is generated by plot.py at 2018-07-03 16:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.15 Mbit/s

95th percentile per-packet one-way delay: 37.612 ms

Loss rate: 0.00%

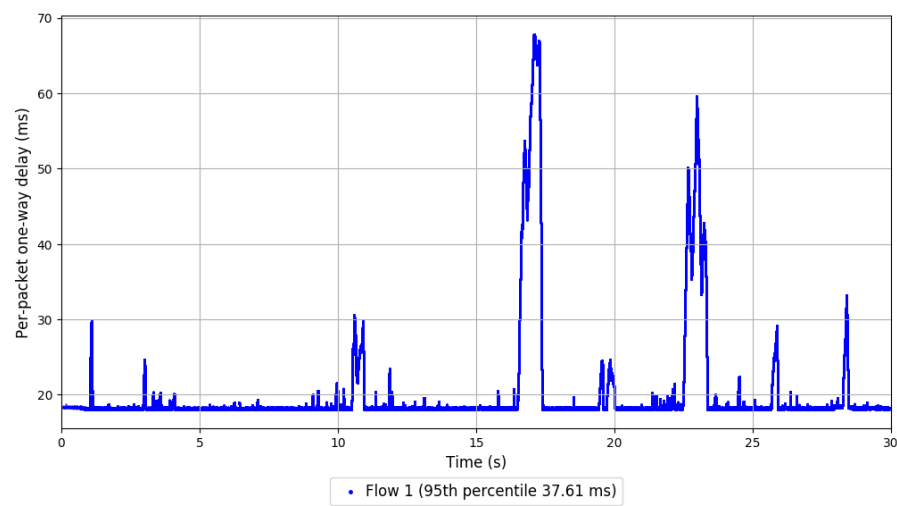
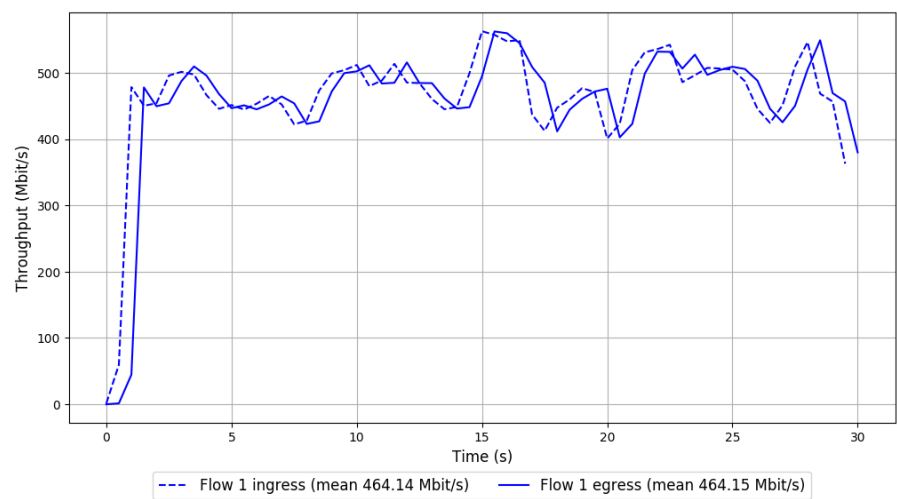
-- Flow 1:

Average throughput: 464.15 Mbit/s

95th percentile per-packet one-way delay: 37.612 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-03 11:19:25

End at: 2018-07-03 11:19:55

Local clock offset: 1.62 ms

Remote clock offset: 1.037 ms

Below is generated by plot.py at 2018-07-03 16:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.43 Mbit/s

95th percentile per-packet one-way delay: 18.609 ms

Loss rate: 0.00%

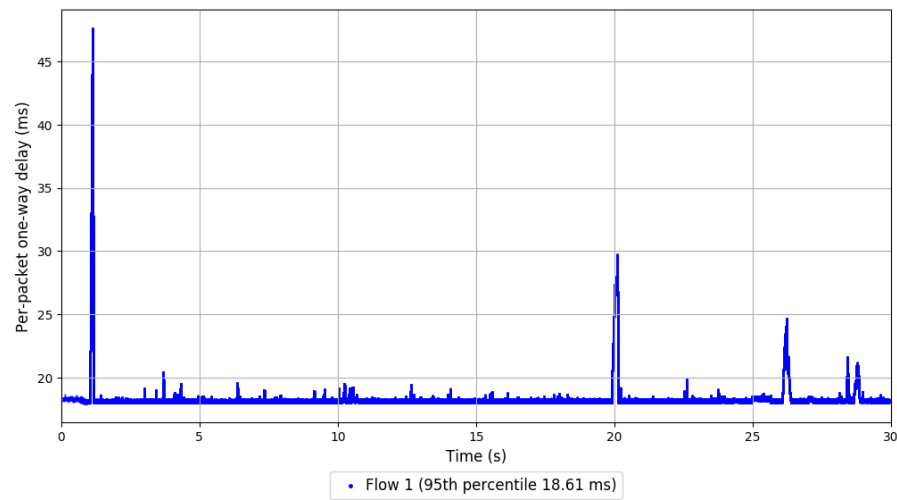
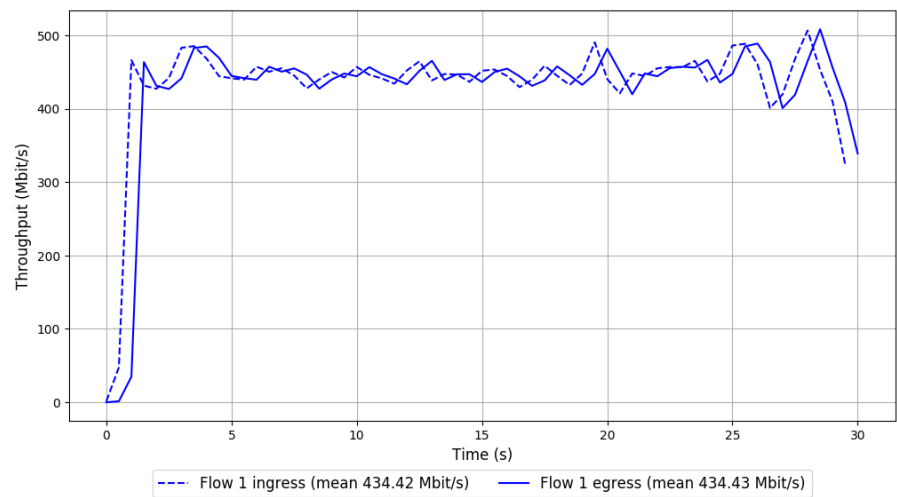
-- Flow 1:

Average throughput: 434.43 Mbit/s

95th percentile per-packet one-way delay: 18.609 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-03 11:45:22

End at: 2018-07-03 11:45:52

Local clock offset: 0.567 ms

Remote clock offset: -1.017 ms

Below is generated by plot.py at 2018-07-03 16:46:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.18 Mbit/s

95th percentile per-packet one-way delay: 21.528 ms

Loss rate: 0.00%

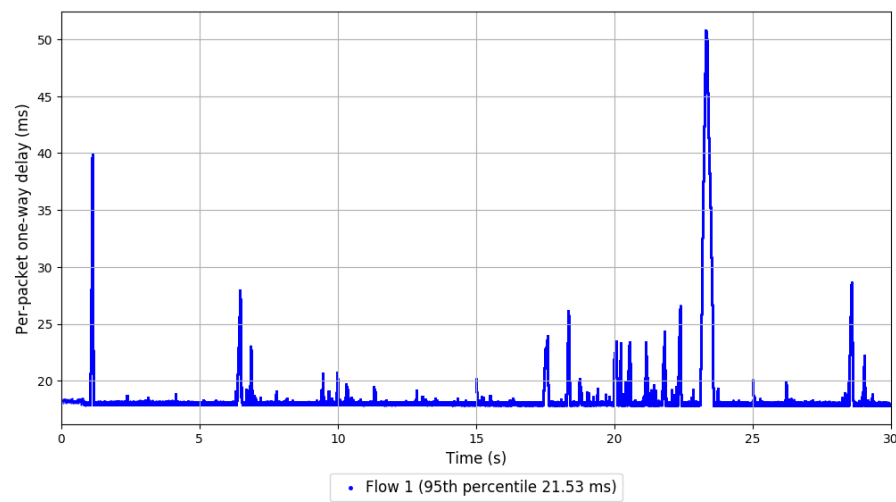
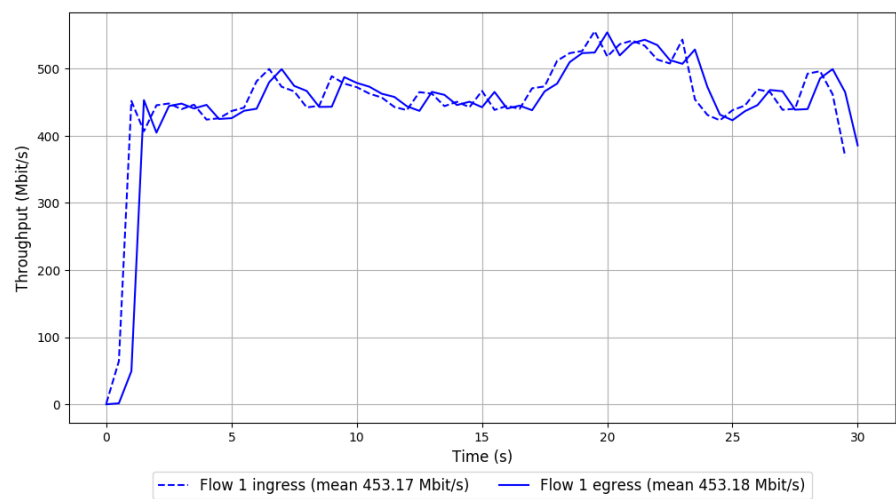
-- Flow 1:

Average throughput: 453.18 Mbit/s

95th percentile per-packet one-way delay: 21.528 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

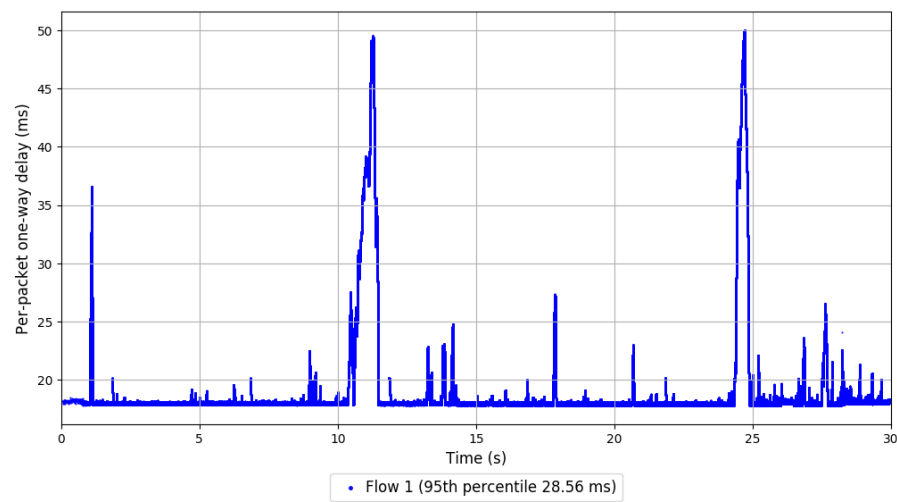
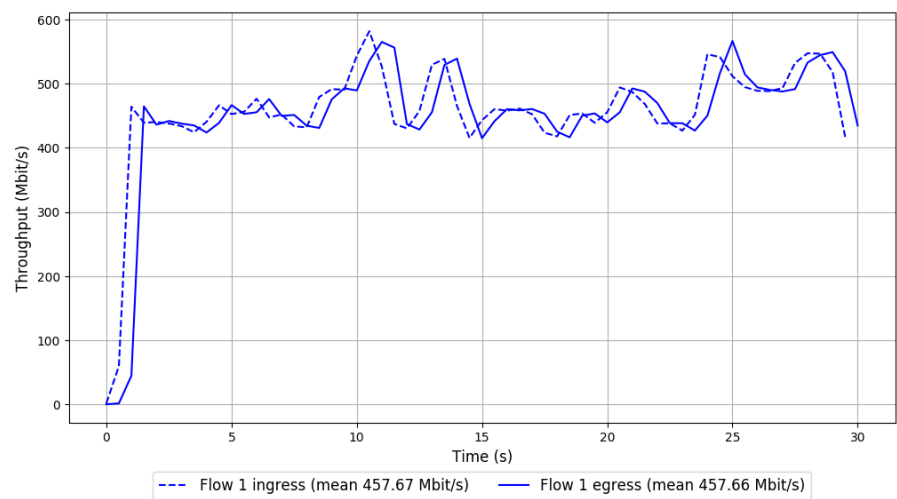


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-03 12:11:08
End at: 2018-07-03 12:11:38
Local clock offset: -1.447 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2018-07-03 16:46:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 457.66 Mbit/s
95th percentile per-packet one-way delay: 28.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 457.66 Mbit/s
95th percentile per-packet one-way delay: 28.556 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-03 12:36:54

End at: 2018-07-03 12:37:24

Local clock offset: -2.063 ms

Remote clock offset: -0.288 ms

Below is generated by plot.py at 2018-07-03 16:46:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.48 Mbit/s

95th percentile per-packet one-way delay: 25.765 ms

Loss rate: 0.00%

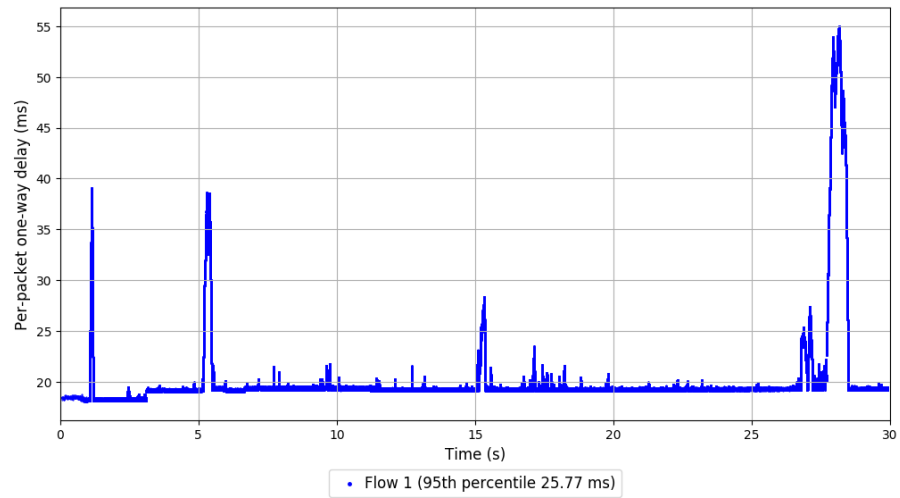
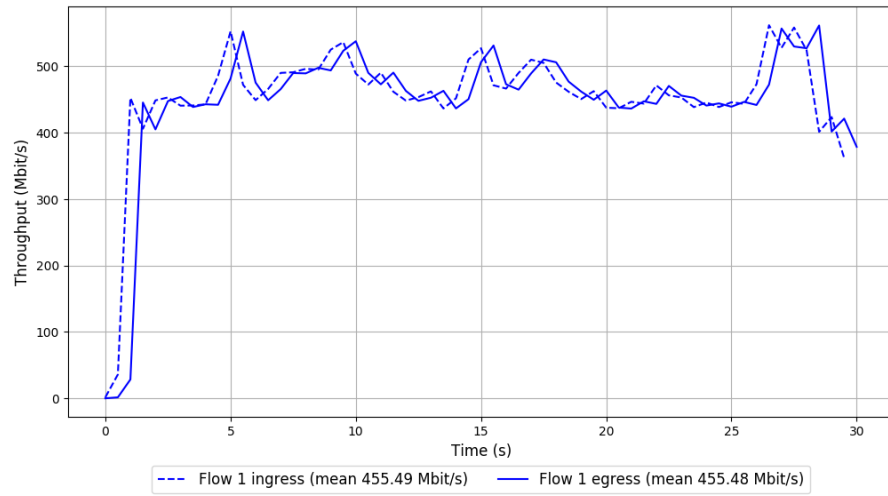
-- Flow 1:

Average throughput: 455.48 Mbit/s

95th percentile per-packet one-way delay: 25.765 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-03 13:02:39

End at: 2018-07-03 13:03:09

Local clock offset: 0.895 ms

Remote clock offset: 1.796 ms

Below is generated by plot.py at 2018-07-03 16:46:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.78 Mbit/s

95th percentile per-packet one-way delay: 22.252 ms

Loss rate: 0.00%

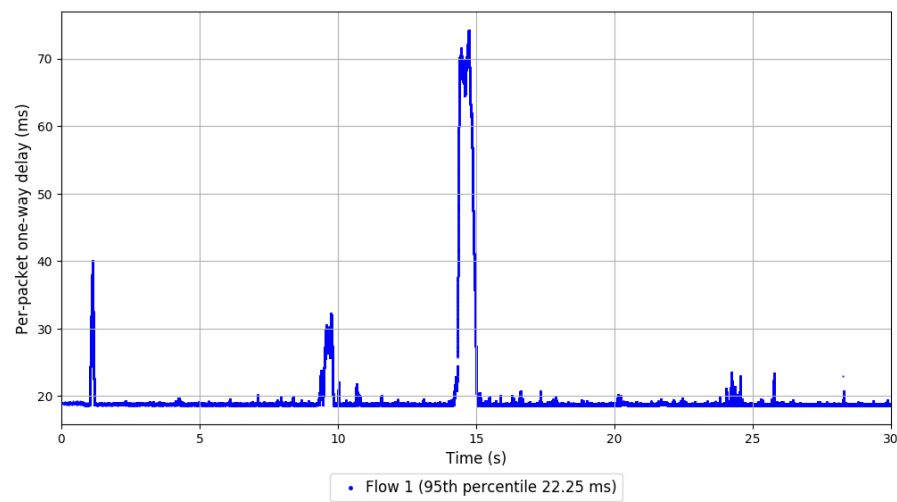
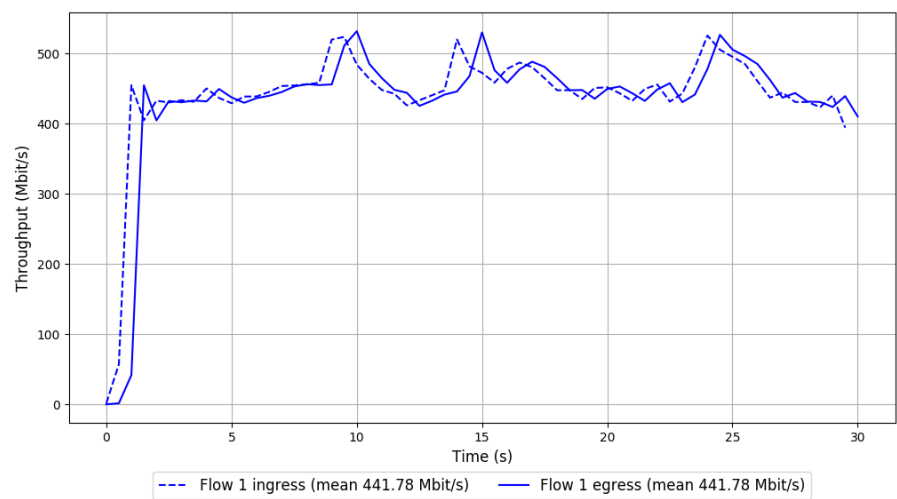
-- Flow 1:

Average throughput: 441.78 Mbit/s

95th percentile per-packet one-way delay: 22.252 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-03 13:28:27

End at: 2018-07-03 13:28:57

Local clock offset: 0.881 ms

Remote clock offset: 3.315 ms

Below is generated by plot.py at 2018-07-03 16:47:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 459.15 Mbit/s

95th percentile per-packet one-way delay: 36.813 ms

Loss rate: 0.00%

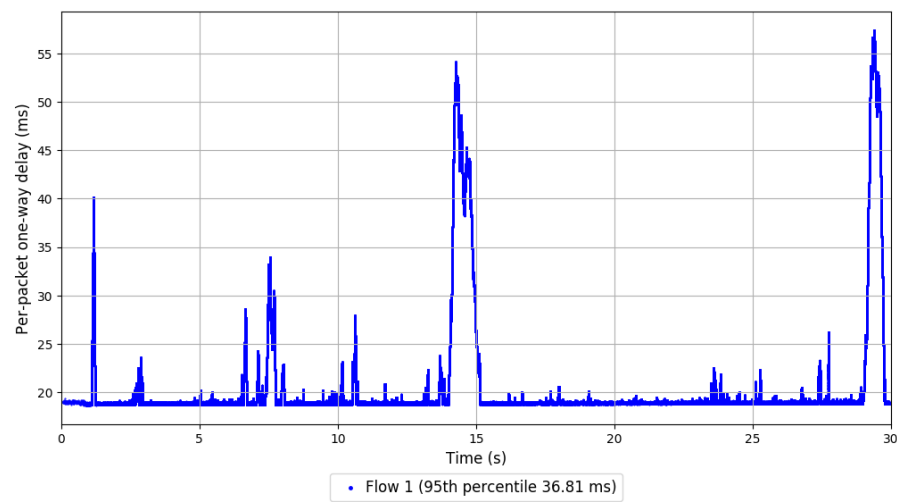
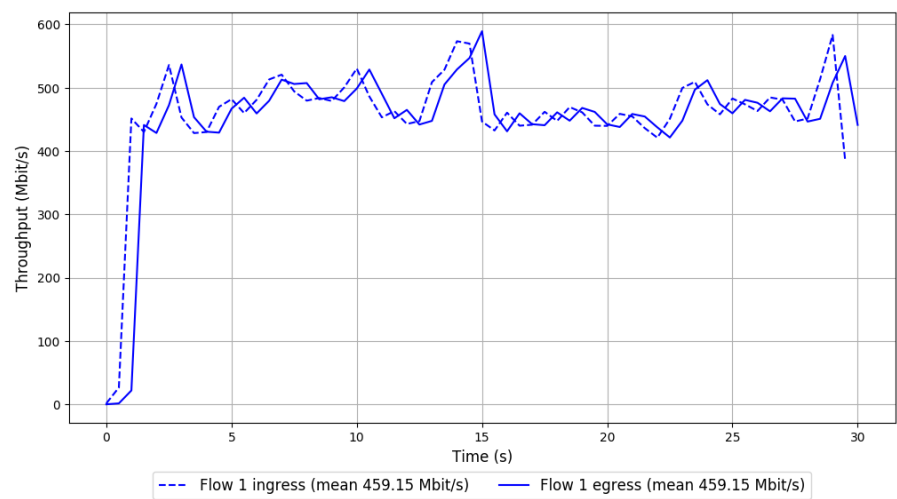
-- Flow 1:

Average throughput: 459.15 Mbit/s

95th percentile per-packet one-way delay: 36.813 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-03 13:54:04

End at: 2018-07-03 13:54:34

Local clock offset: 0.454 ms

Remote clock offset: 1.384 ms

Below is generated by plot.py at 2018-07-03 16:47:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.94 Mbit/s

95th percentile per-packet one-way delay: 18.509 ms

Loss rate: 0.00%

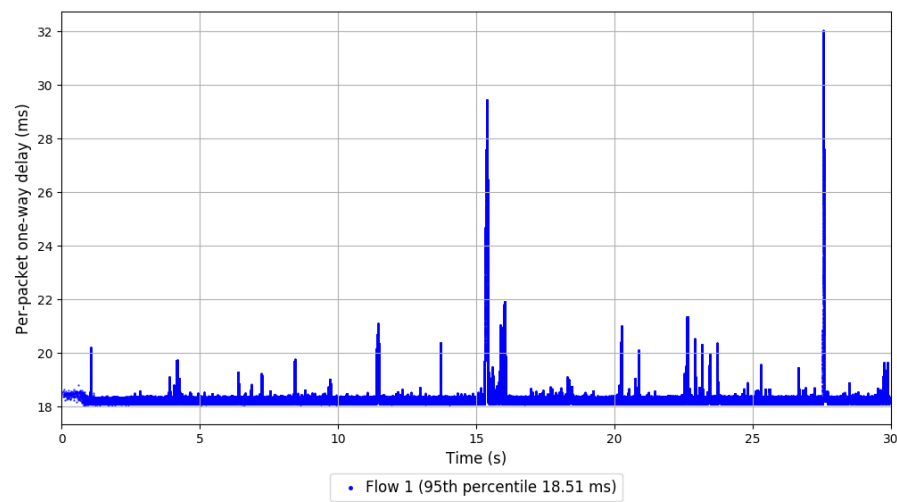
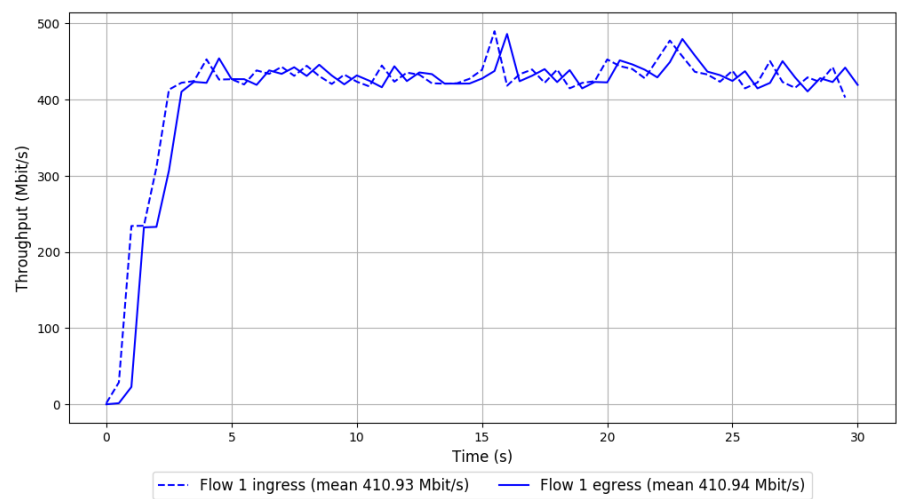
-- Flow 1:

Average throughput: 410.94 Mbit/s

95th percentile per-packet one-way delay: 18.509 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

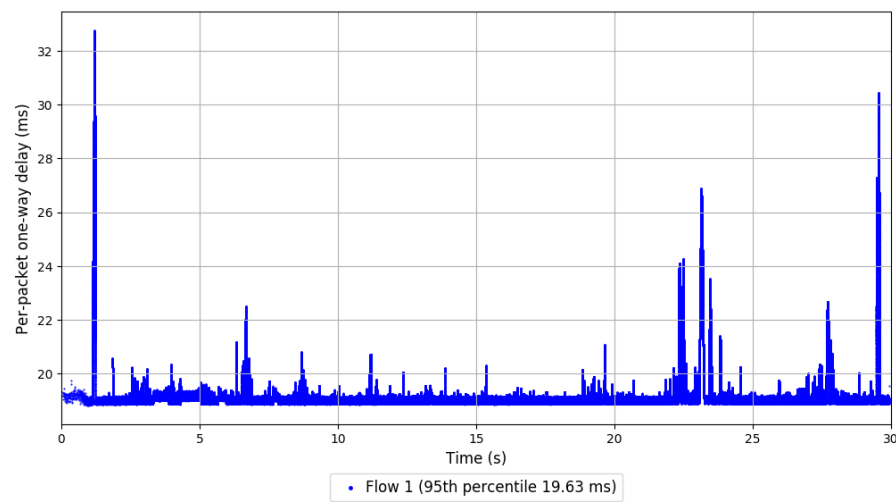
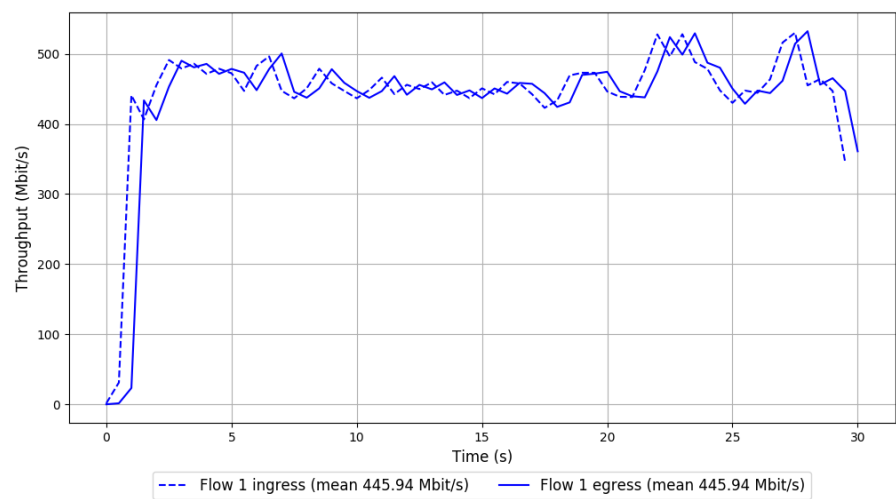


Run 10: Statistics of PCC-Vivace

Start at: 2018-07-03 14:19:55
End at: 2018-07-03 14:20:25
Local clock offset: 0.71 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-07-03 16:47:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 445.94 Mbit/s
95th percentile per-packet one-way delay: 19.628 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 445.94 Mbit/s
95th percentile per-packet one-way delay: 19.628 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-03 10:46:26

End at: 2018-07-03 10:46:56

Local clock offset: 4.717 ms

Remote clock offset: 3.123 ms

Below is generated by plot.py at 2018-07-03 16:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 19.016 ms

Loss rate: 0.00%

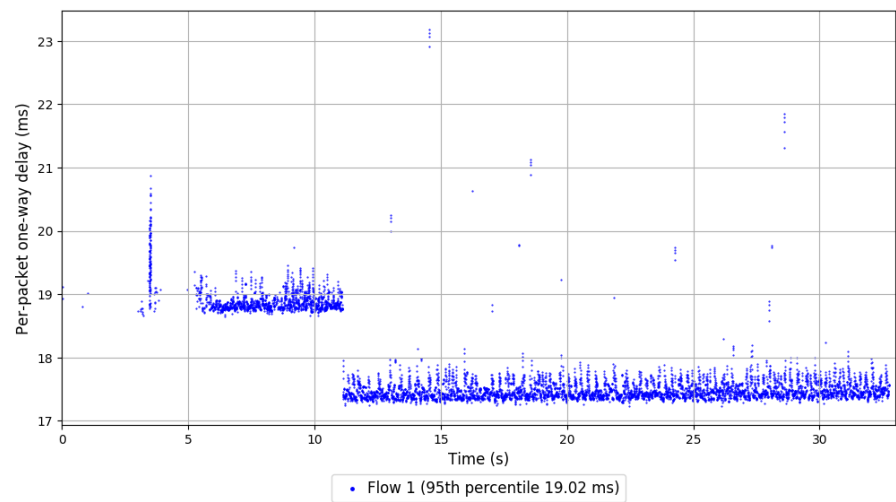
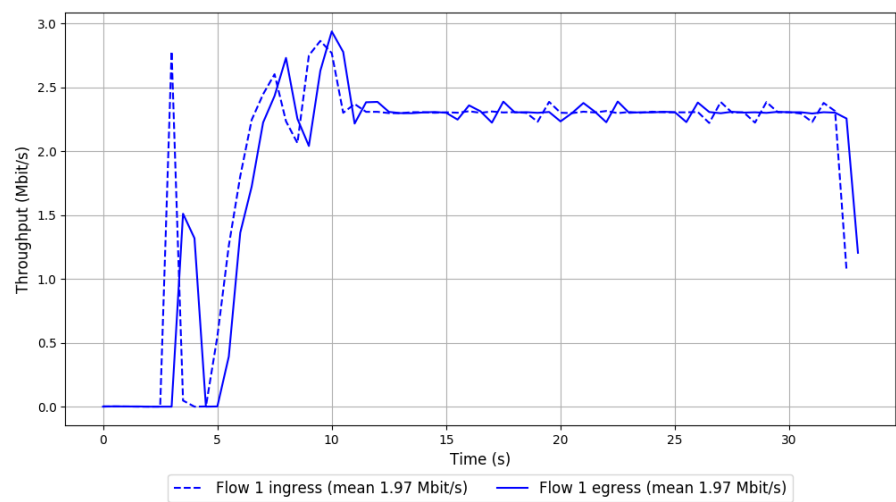
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 19.016 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-03 11:12:18

End at: 2018-07-03 11:12:48

Local clock offset: 2.642 ms

Remote clock offset: 2.853 ms

Below is generated by plot.py at 2018-07-03 16:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 19.033 ms

Loss rate: 0.00%

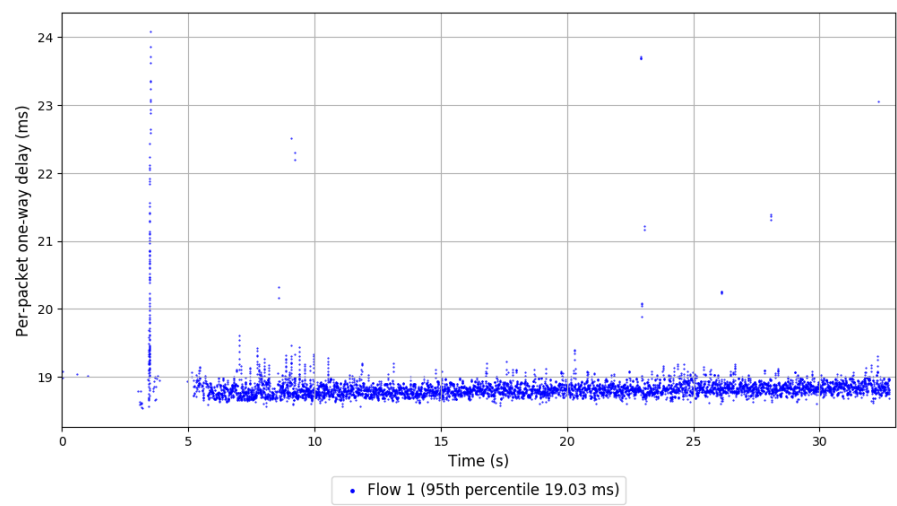
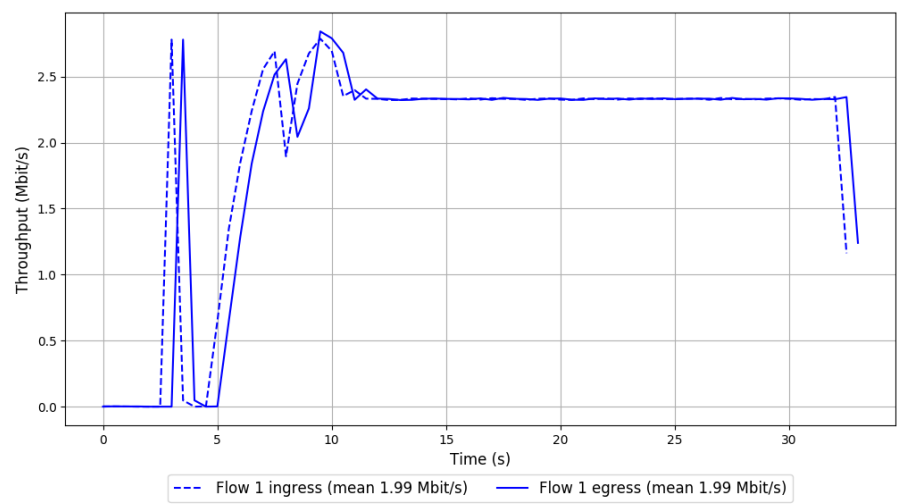
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 19.033 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

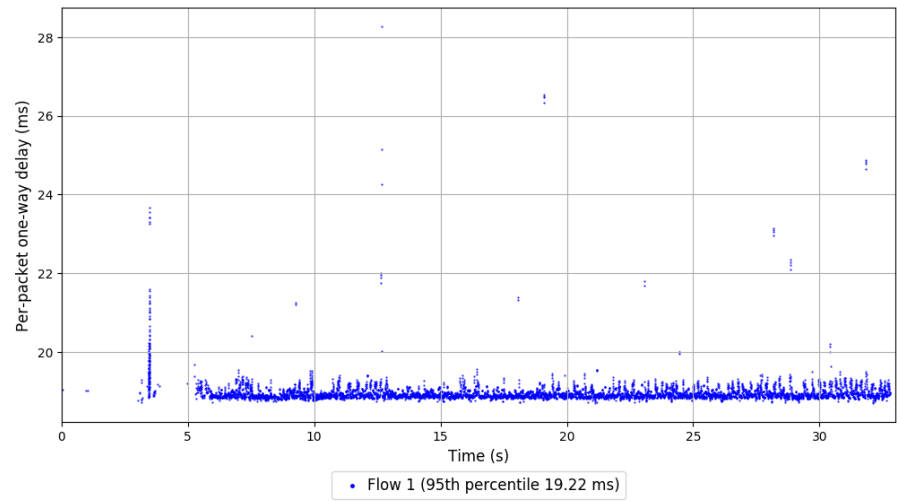
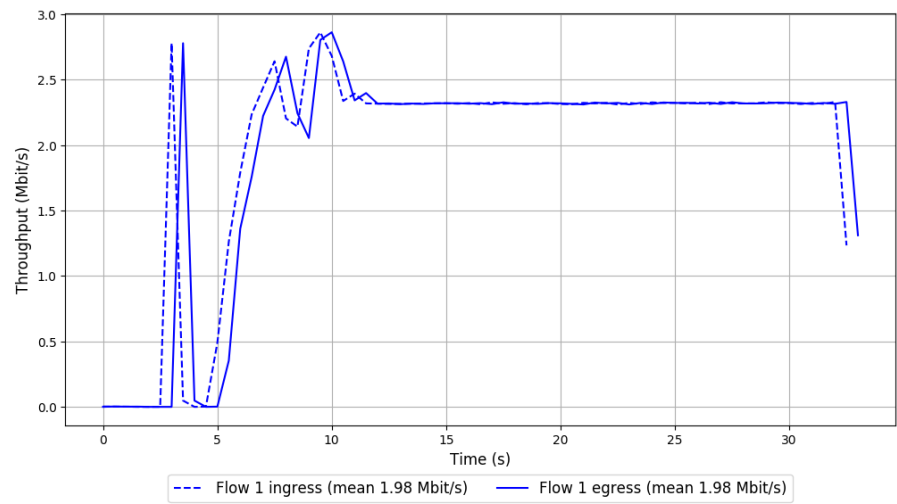


Run 3: Statistics of WebRTC media

Start at: 2018-07-03 11:38:07
End at: 2018-07-03 11:38:37
Local clock offset: 0.875 ms
Remote clock offset: -0.739 ms

Below is generated by plot.py at 2018-07-03 16:47:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 19.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 19.223 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

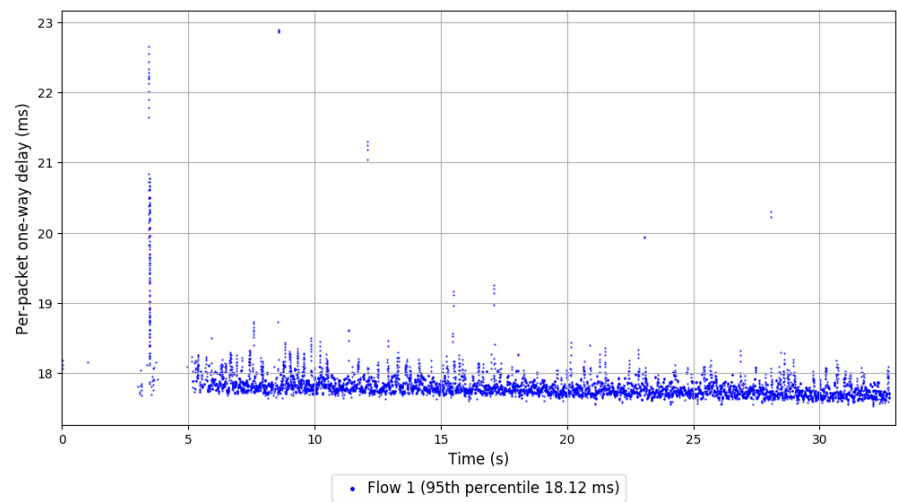
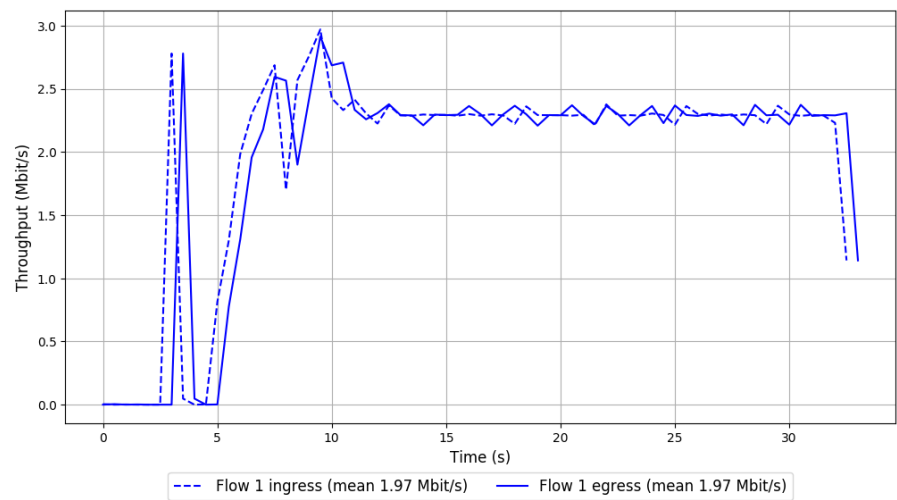


Run 4: Statistics of WebRTC media

Start at: 2018-07-03 12:03:59
End at: 2018-07-03 12:04:29
Local clock offset: 0.34 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-07-03 16:47:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 18.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 18.122 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

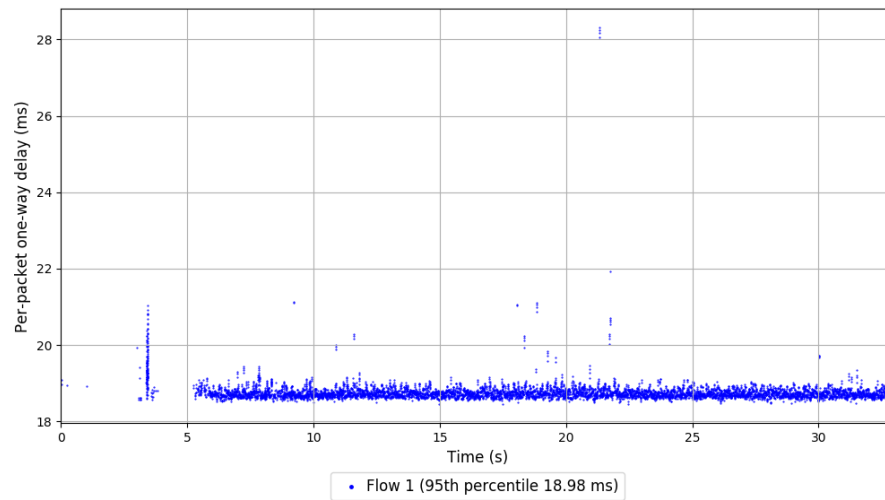
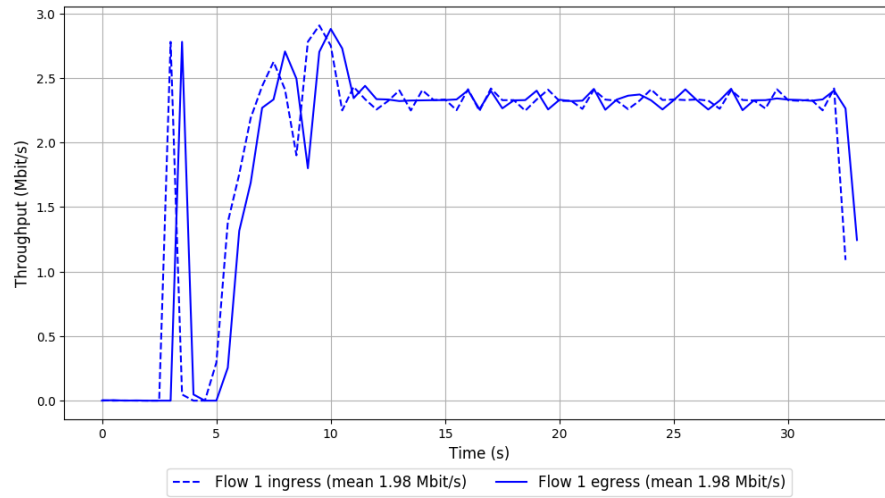


Run 5: Statistics of WebRTC media

Start at: 2018-07-03 12:29:44
End at: 2018-07-03 12:30:14
Local clock offset: -3.159 ms
Remote clock offset: -0.268 ms

Below is generated by plot.py at 2018-07-03 16:47:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 18.977 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 18.977 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-03 12:55:27

End at: 2018-07-03 12:55:57

Local clock offset: 0.653 ms

Remote clock offset: 0.16 ms

Below is generated by plot.py at 2018-07-03 16:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 19.258 ms

Loss rate: 0.00%

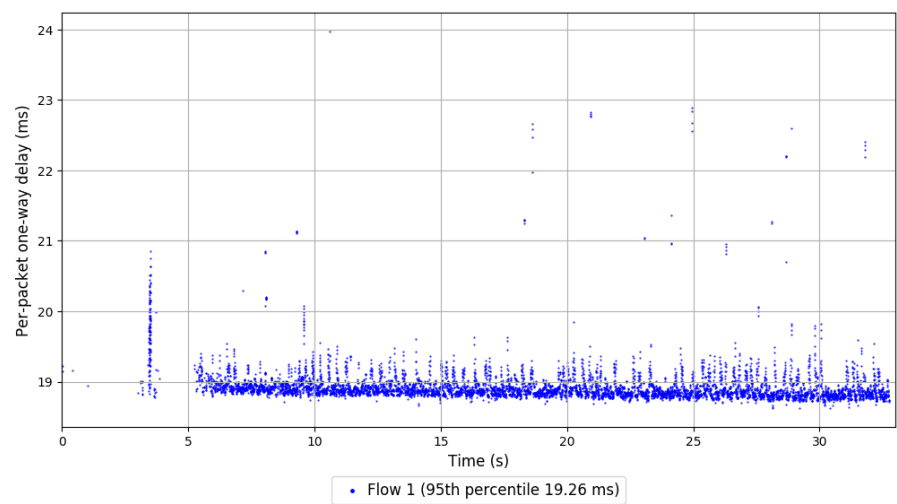
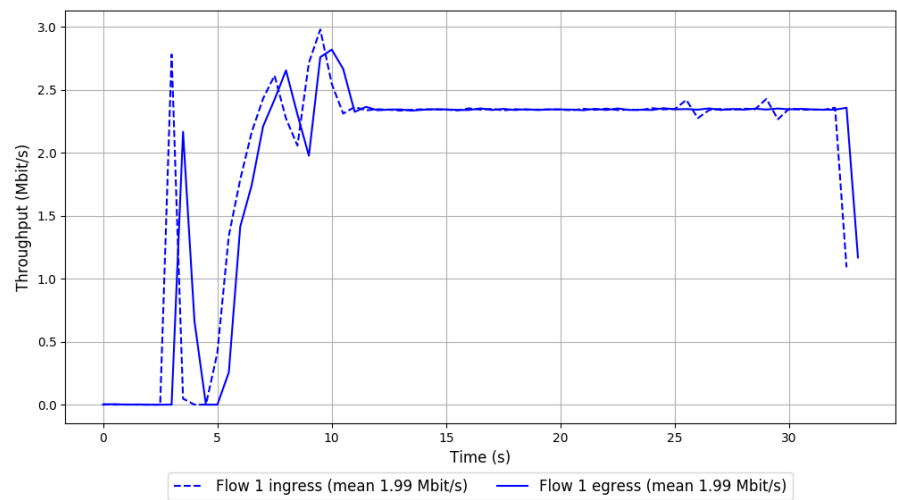
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 19.258 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-03 13:21:14

End at: 2018-07-03 13:21:44

Local clock offset: 0.824 ms

Remote clock offset: 3.331 ms

Below is generated by plot.py at 2018-07-03 16:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 19.194 ms

Loss rate: 0.00%

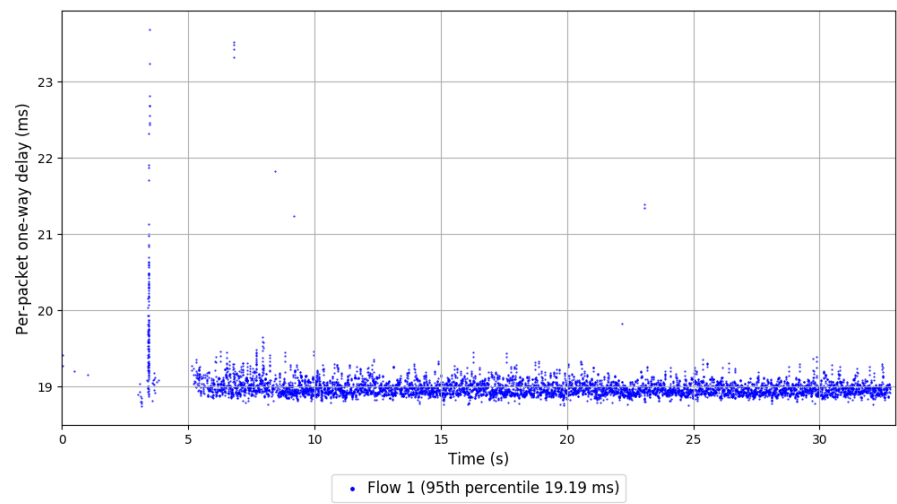
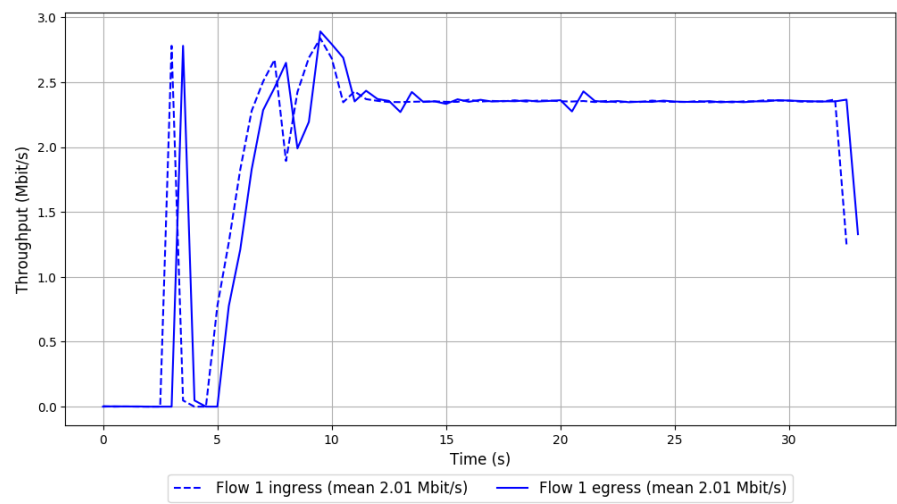
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 19.194 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-03 13:46:59

End at: 2018-07-03 13:47:29

Local clock offset: 0.475 ms

Remote clock offset: 1.414 ms

Below is generated by plot.py at 2018-07-03 16:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 19.165 ms

Loss rate: 0.00%

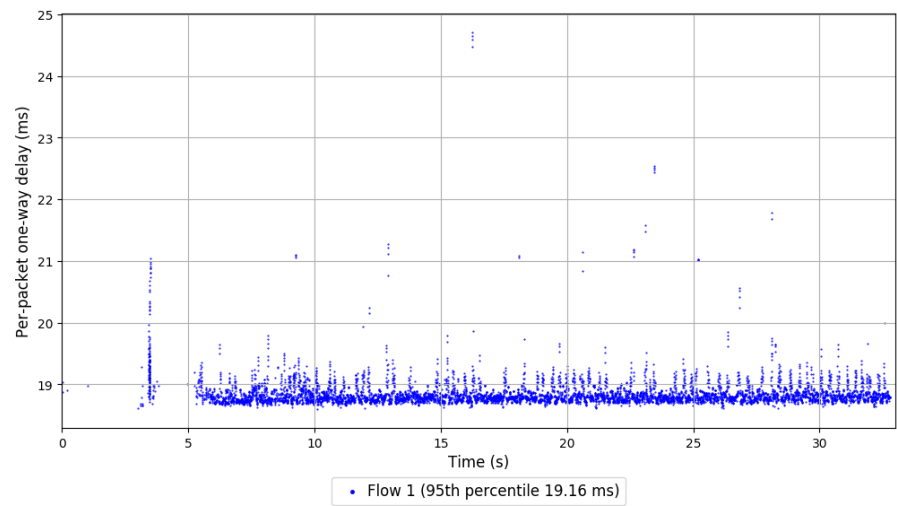
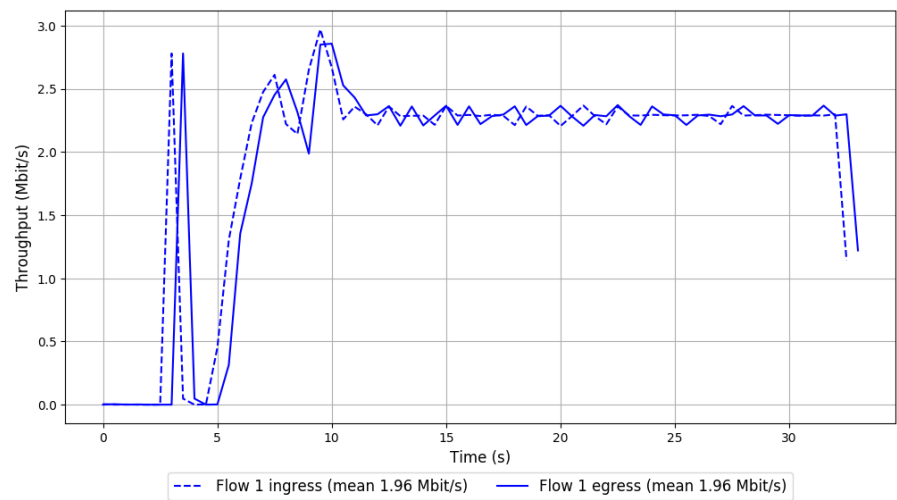
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 19.165 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-03 14:12:43

End at: 2018-07-03 14:13:13

Local clock offset: 0.662 ms

Remote clock offset: 0.142 ms

Below is generated by plot.py at 2018-07-03 16:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 19.419 ms

Loss rate: 0.00%

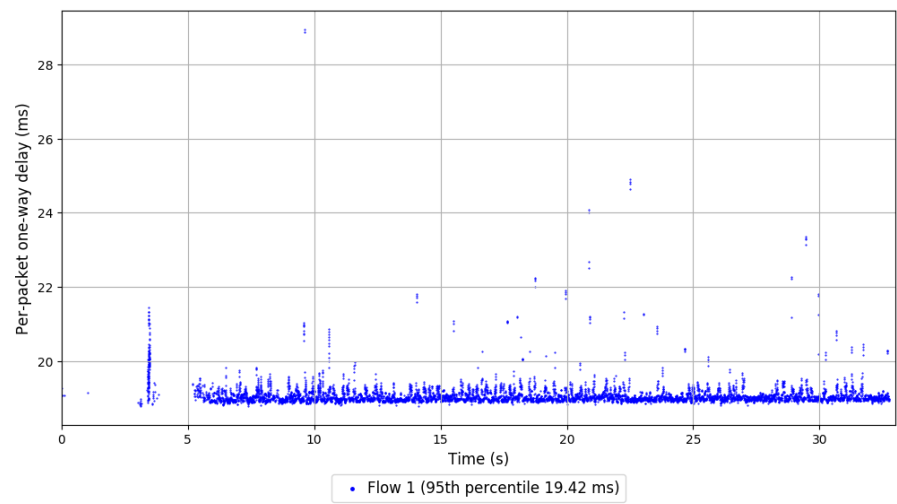
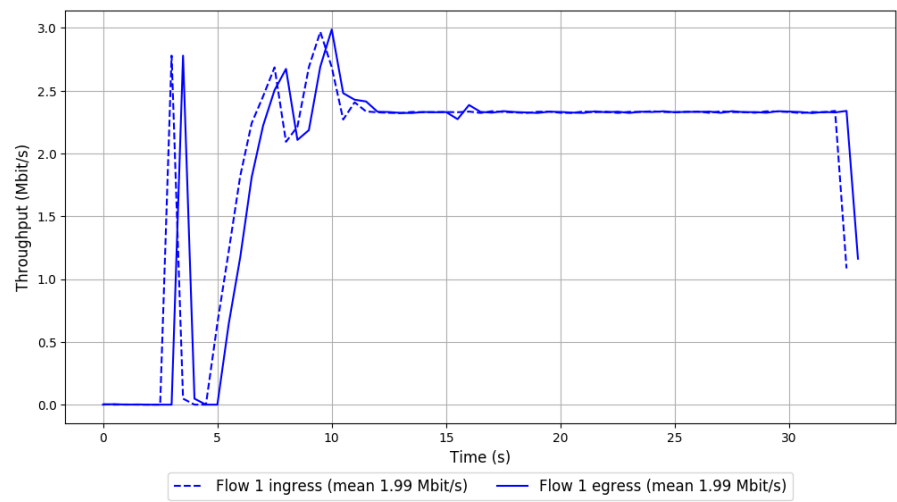
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 19.419 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-03 14:38:27

End at: 2018-07-03 14:38:57

Local clock offset: 0.619 ms

Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-07-03 16:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 17.586 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 17.586 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

