

Pantheon Report

Generated at 2018-05-25 00:01:28 (UTC).

Data path: India ppp0 ppp0 (*remote*) → AWS India 1 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

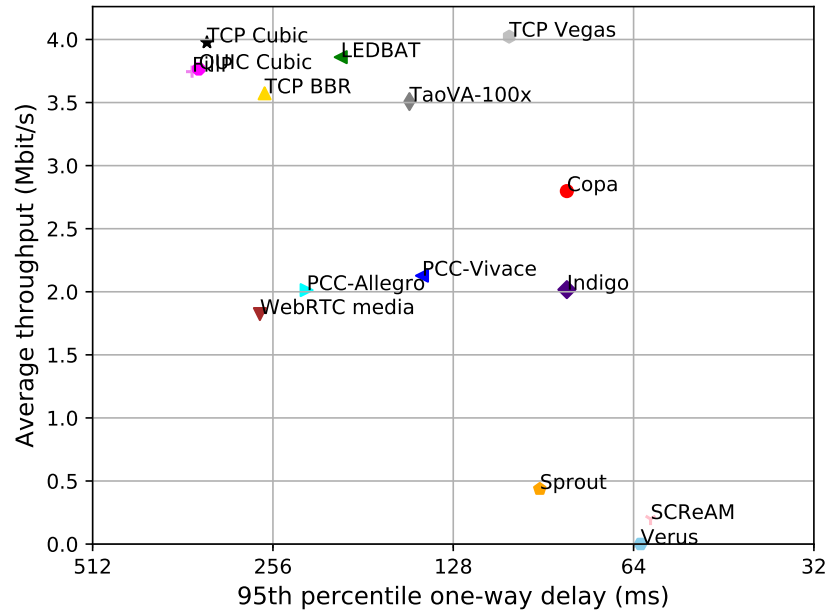
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

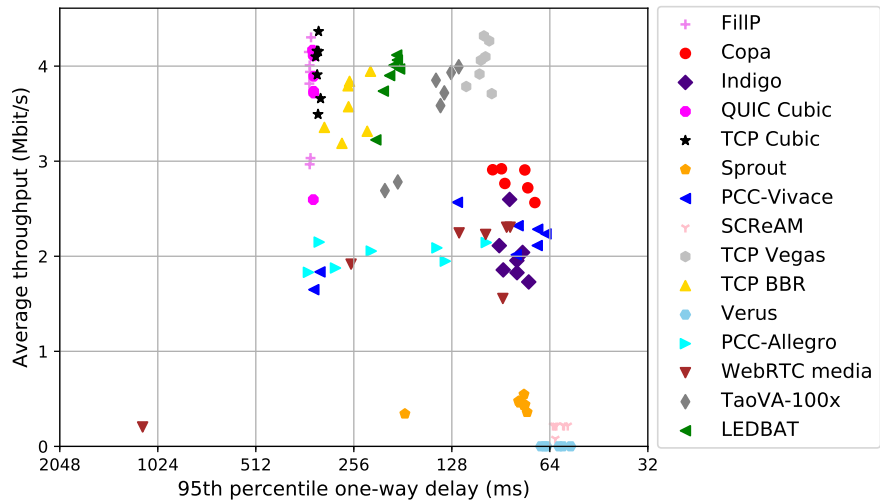
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from India ppp0 to AWS India 1, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from India ppp0 to AWS India 1, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	7	3.57	264.32	1.20
Copa	6	2.80	82.72	0.22
TCP Cubic	7	3.98	329.94	1.45
FillP	7	3.75	349.35	27.06
Indigo	7	2.02	82.72	0.61
LEDBAT	7	3.86	197.27	0.59
PCC-Allegro	7	2.01	224.89	11.92
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	7	3.77	340.51	2.83
SCReAM	7	0.20	59.96	0.55
Sprout	7	0.44	91.78	0.38
TaoVA-100x	7	3.51	151.49	1.05
TCP Vegas	7	4.02	103.25	0.31
Verus	6	0.00	62.30	0.00
PCC-Vivace	8	2.13	144.36	2.24
WebRTC media	7	1.83	269.17	3.52

Run 1: Statistics of TCP BBR

Start at: 2018-05-24 20:48:47

End at: 2018-05-24 20:49:17

Local clock offset: -0.436 ms

Remote clock offset: 2.428 ms

Below is generated by plot.py at 2018-05-24 23:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 278.421 ms

Loss rate: 0.75%

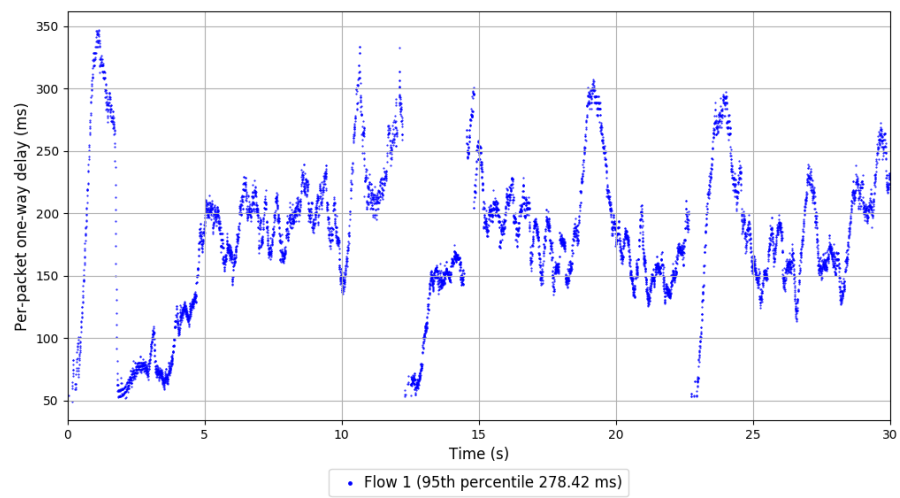
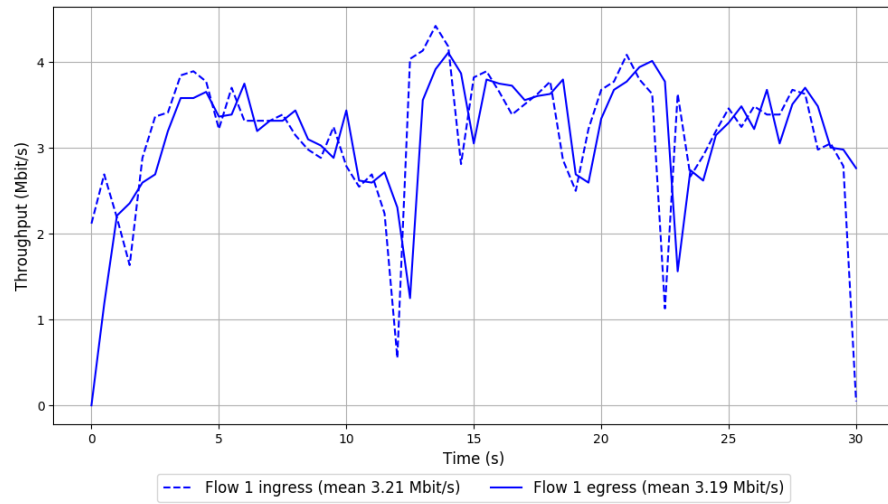
-- Flow 1:

Average throughput: 3.19 Mbit/s

95th percentile per-packet one-way delay: 278.421 ms

Loss rate: 0.75%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-24 21:06:03

End at: 2018-05-24 21:06:33

Local clock offset: -2.791 ms

Remote clock offset: 2.834 ms

Below is generated by plot.py at 2018-05-24 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 227.512 ms

Loss rate: 0.67%

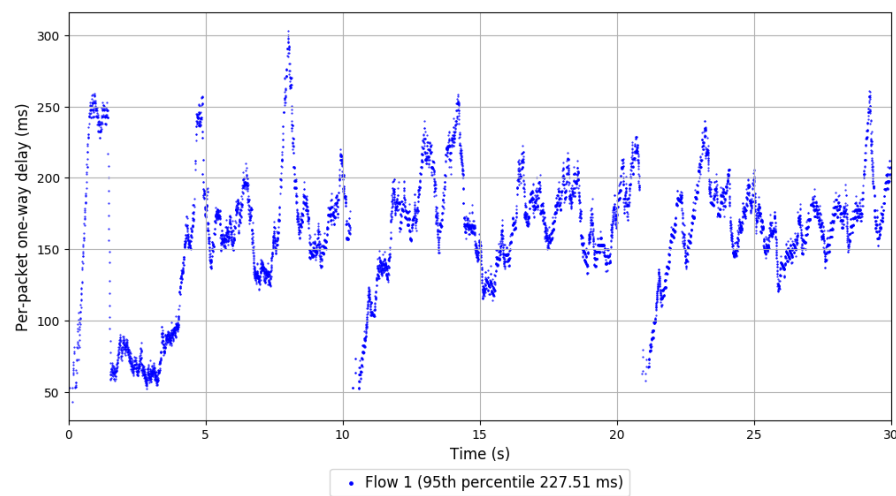
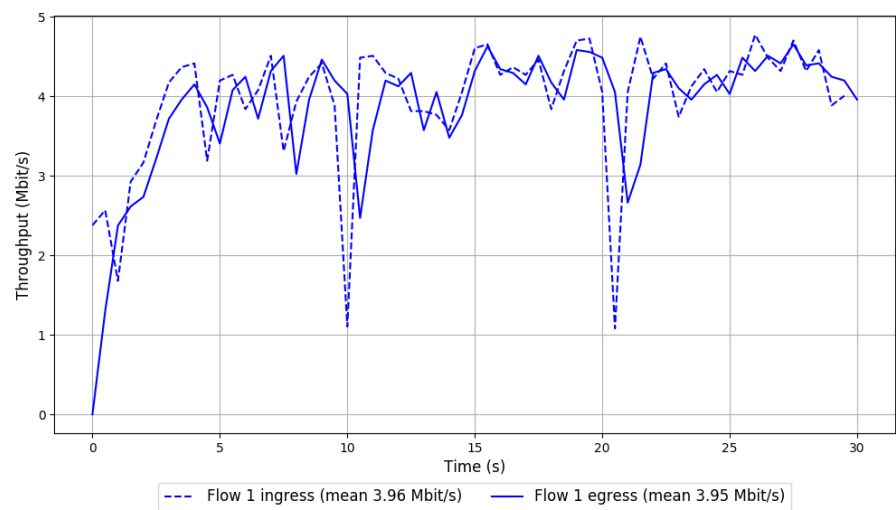
-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 227.512 ms

Loss rate: 0.67%

Run 2: Report of TCP BBR — Data Link

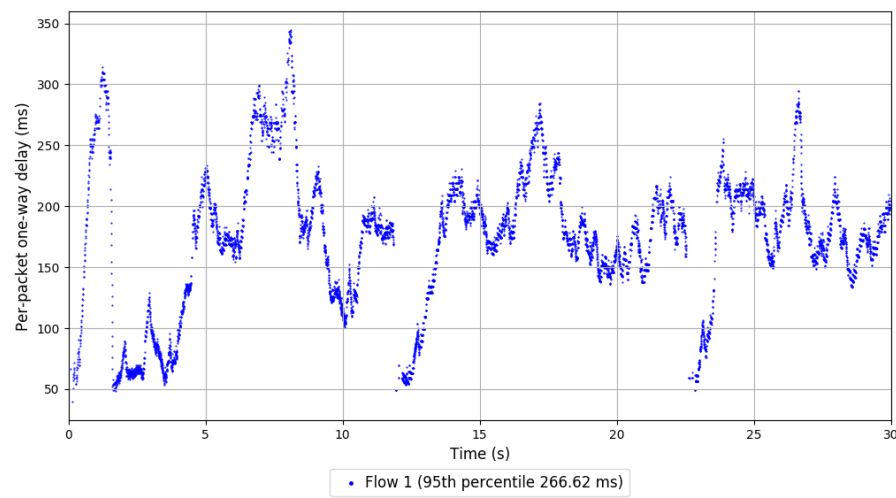
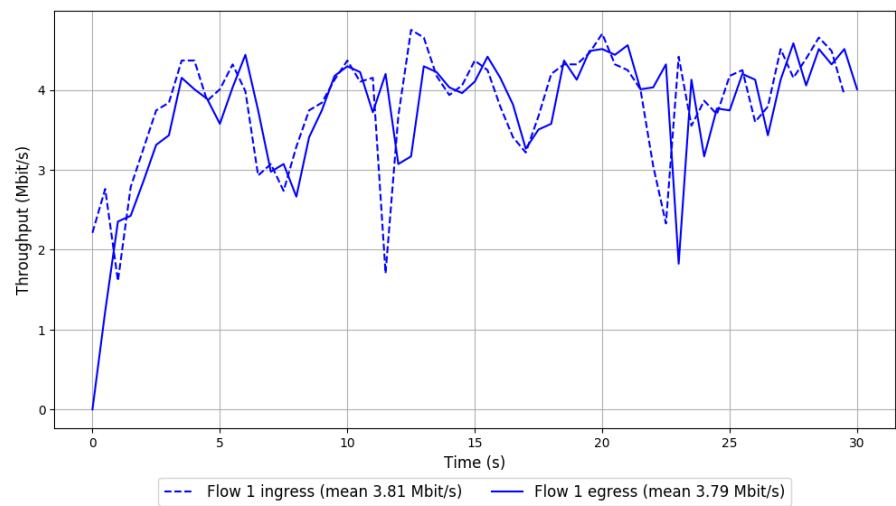


Run 3: Statistics of TCP BBR

Start at: 2018-05-24 21:23:21
End at: 2018-05-24 21:23:51
Local clock offset: -6.405 ms
Remote clock offset: -7.484 ms

Below is generated by plot.py at 2018-05-24 23:59:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 266.617 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 266.617 ms
Loss rate: 0.75%

Run 3: Report of TCP BBR — Data Link

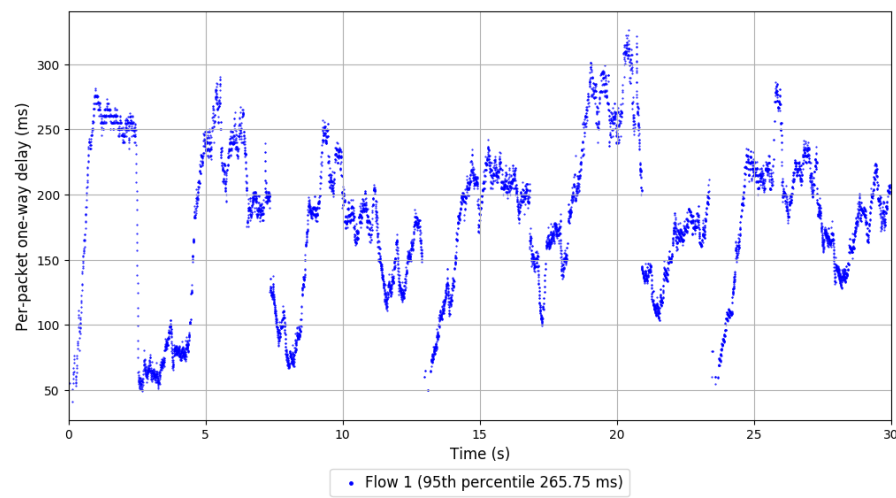
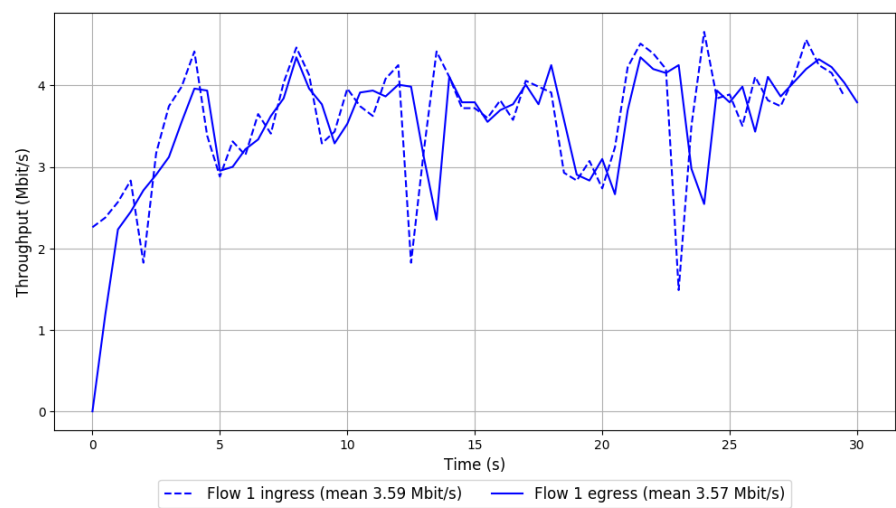


Run 4: Statistics of TCP BBR

Start at: 2018-05-24 21:40:38
End at: 2018-05-24 21:41:08
Local clock offset: -5.839 ms
Remote clock offset: -11.478 ms

Below is generated by plot.py at 2018-05-24 23:59:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 265.748 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 265.748 ms
Loss rate: 0.79%

Run 4: Report of TCP BBR — Data Link

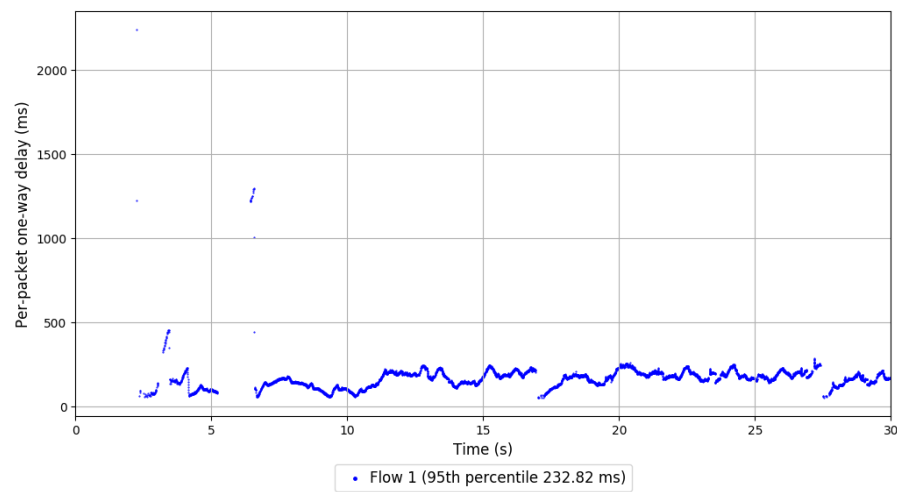
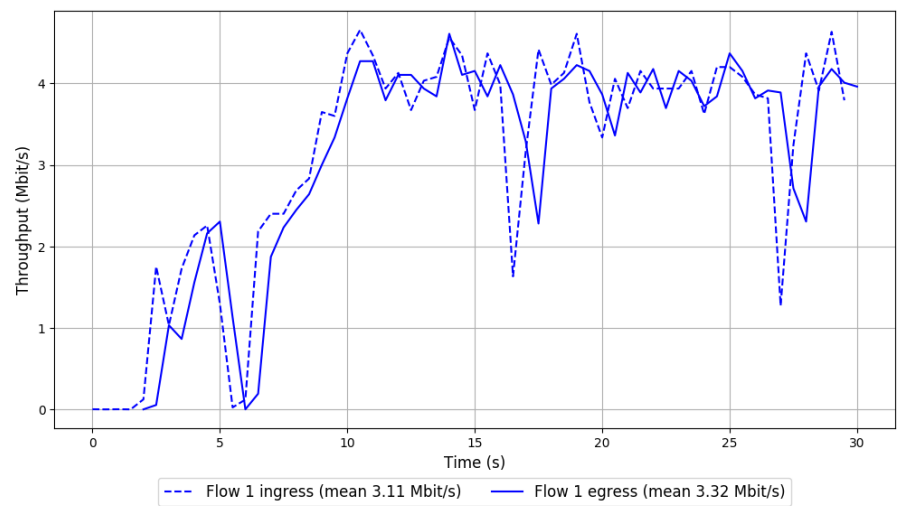


Run 5: Statistics of TCP BBR

Start at: 2018-05-24 21:57:51
End at: 2018-05-24 21:58:21
Local clock offset: -5.968 ms
Remote clock offset: -2.717 ms

Below is generated by plot.py at 2018-05-24 23:59:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 232.822 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 3.32 Mbit/s
95th percentile per-packet one-way delay: 232.822 ms
Loss rate: 1.33%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-24 22:15:09

End at: 2018-05-24 22:15:39

Local clock offset: -4.65 ms

Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-05-24 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 263.848 ms

Loss rate: 0.68%

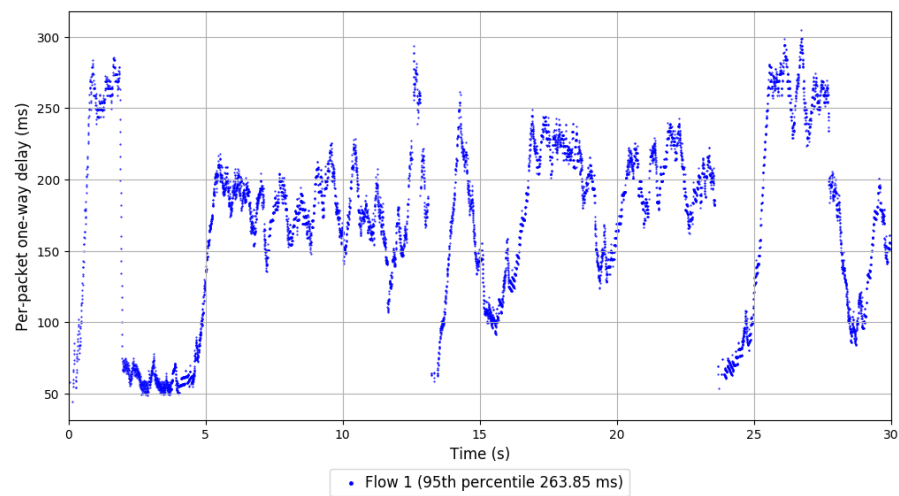
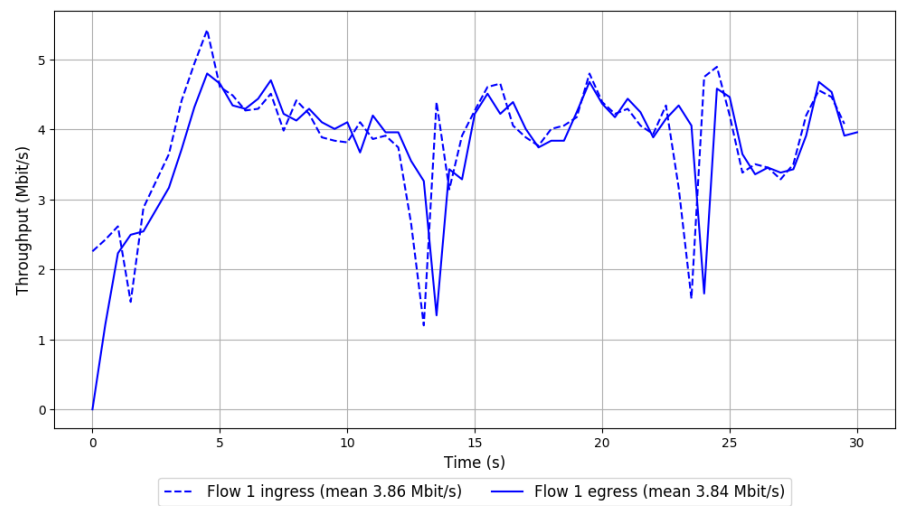
-- Flow 1:

Average throughput: 3.84 Mbit/s

95th percentile per-packet one-way delay: 263.848 ms

Loss rate: 0.68%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-24 22:32:30

End at: 2018-05-24 22:33:00

Local clock offset: -2.721 ms

Remote clock offset: 2.803 ms

Below is generated by plot.py at 2018-05-24 23:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 315.251 ms

Loss rate: 3.45%

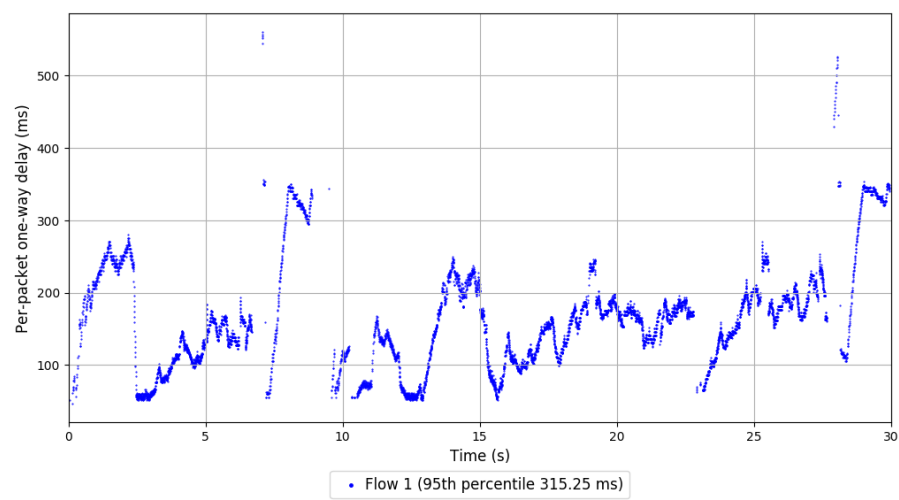
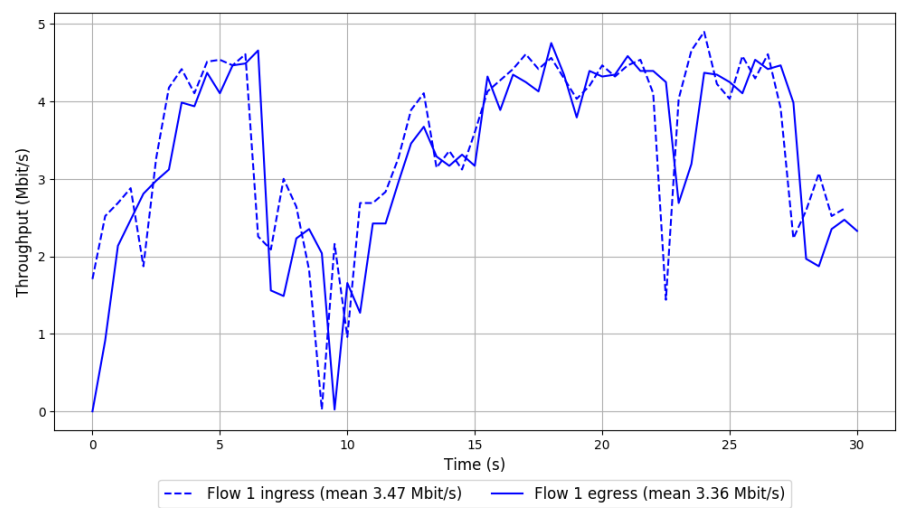
-- Flow 1:

Average throughput: 3.36 Mbit/s

95th percentile per-packet one-way delay: 315.251 ms

Loss rate: 3.45%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/bbr_stats_run8

Run 8: Report of TCP BBR — Data Link

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Run 9: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/bbr_stats_run9

Run 9: Report of TCP BBR — Data Link

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Run 10: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/bbr_stats_run10

Run 10: Report of TCP BBR — Data Link

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Run 1: Statistics of Copa

Start at: 2018-05-24 20:58:28

End at: 2018-05-24 20:58:58

Local clock offset: -2.076 ms

Remote clock offset: 2.629 ms

Below is generated by plot.py at 2018-05-24 23:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 95.885 ms

Loss rate: 0.27%

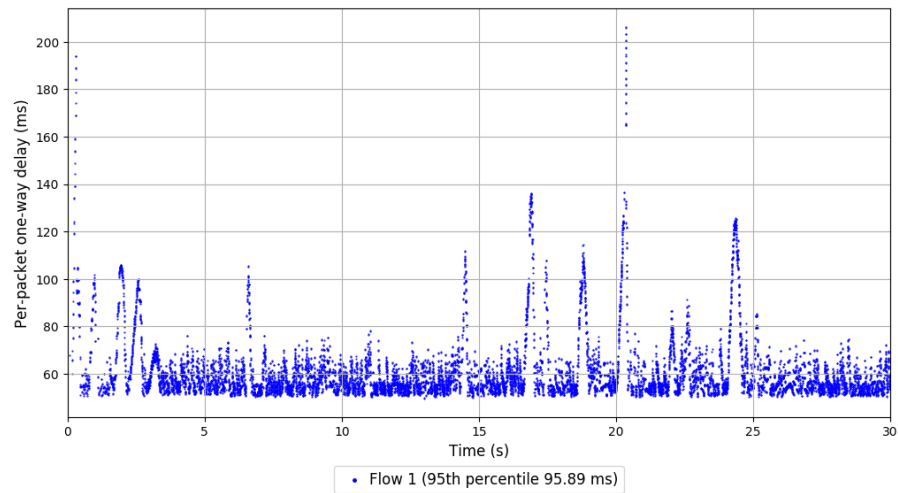
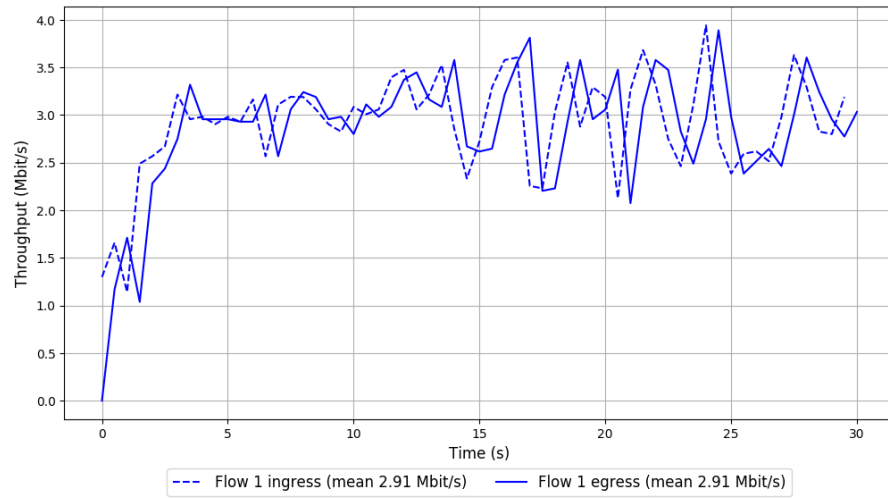
-- Flow 1:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 95.885 ms

Loss rate: 0.27%

Run 1: Report of Copa — Data Link

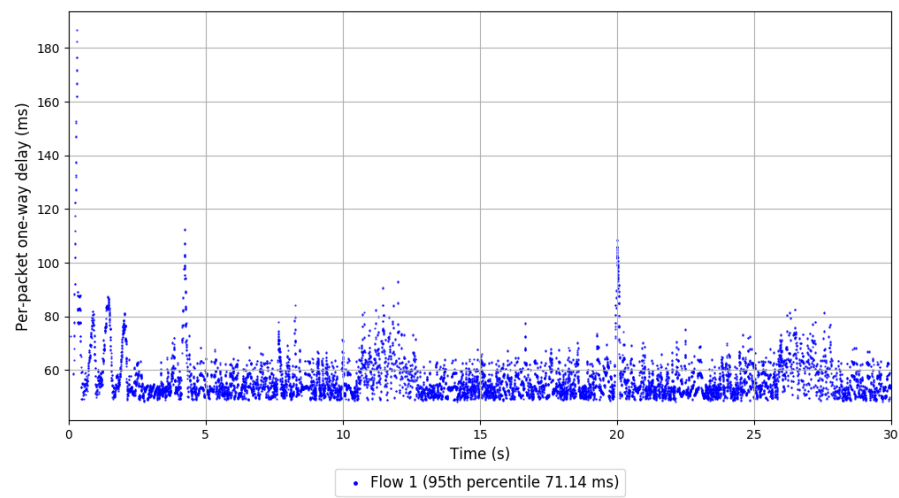
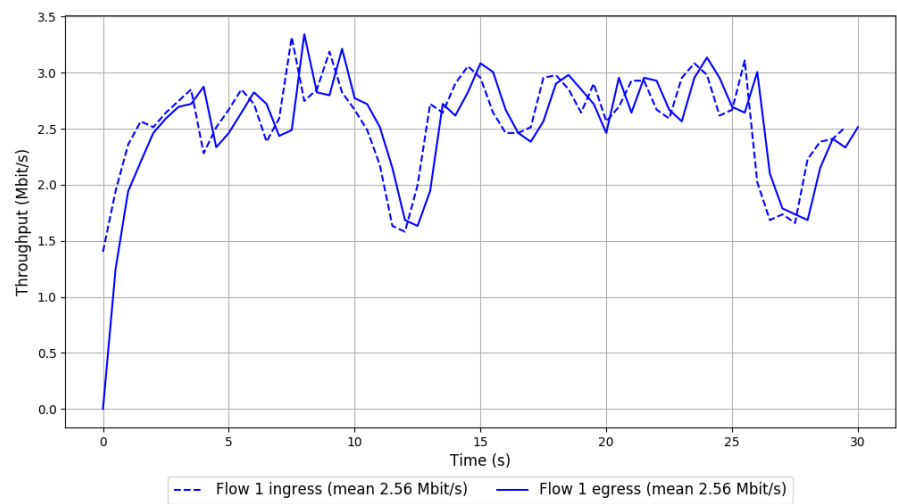


Run 2: Statistics of Copa

Start at: 2018-05-24 21:15:46
End at: 2018-05-24 21:16:16
Local clock offset: -5.437 ms
Remote clock offset: -4.593 ms

Below is generated by plot.py at 2018-05-24 23:59:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 71.143 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 71.143 ms
Loss rate: 0.20%

Run 2: Report of Copa — Data Link

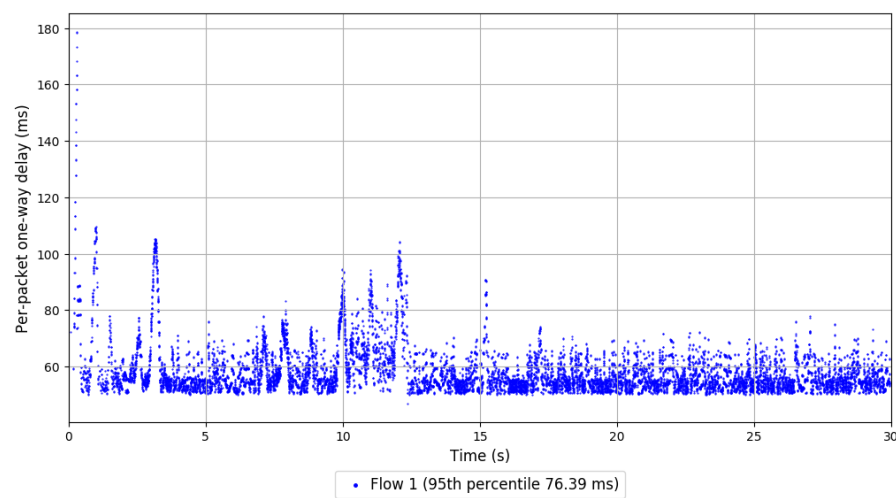
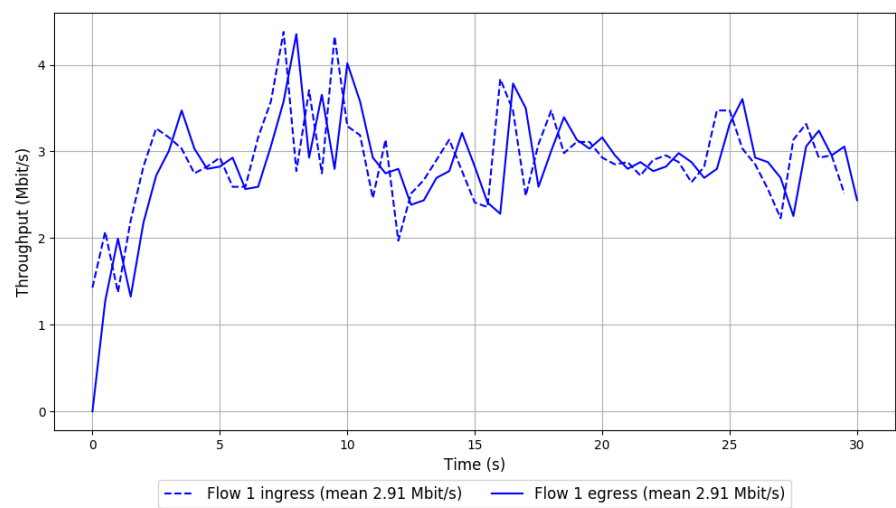


Run 3: Statistics of Copa

Start at: 2018-05-24 21:33:02
End at: 2018-05-24 21:33:32
Local clock offset: -6.603 ms
Remote clock offset: -11.717 ms

Below is generated by plot.py at 2018-05-24 23:59:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 76.386 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 76.386 ms
Loss rate: 0.21%

Run 3: Report of Copa — Data Link

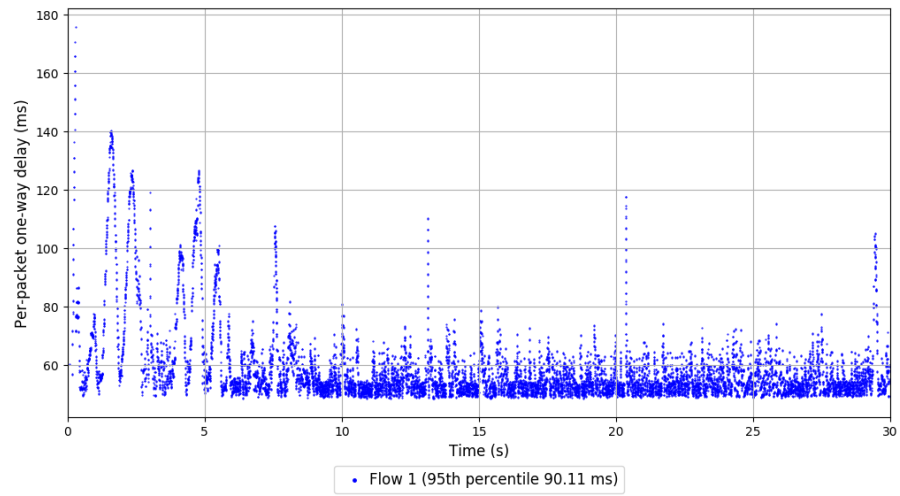
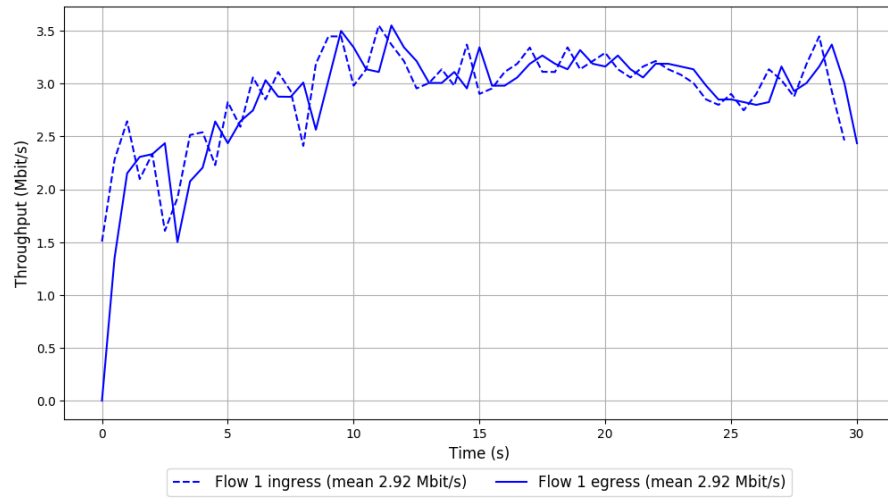


Run 4: Statistics of Copa

Start at: 2018-05-24 21:50:19
End at: 2018-05-24 21:50:49
Local clock offset: -8.262 ms
Remote clock offset: -5.473 ms

Below is generated by plot.py at 2018-05-24 23:59:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 90.109 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 90.109 ms
Loss rate: 0.21%

Run 4: Report of Copa — Data Link

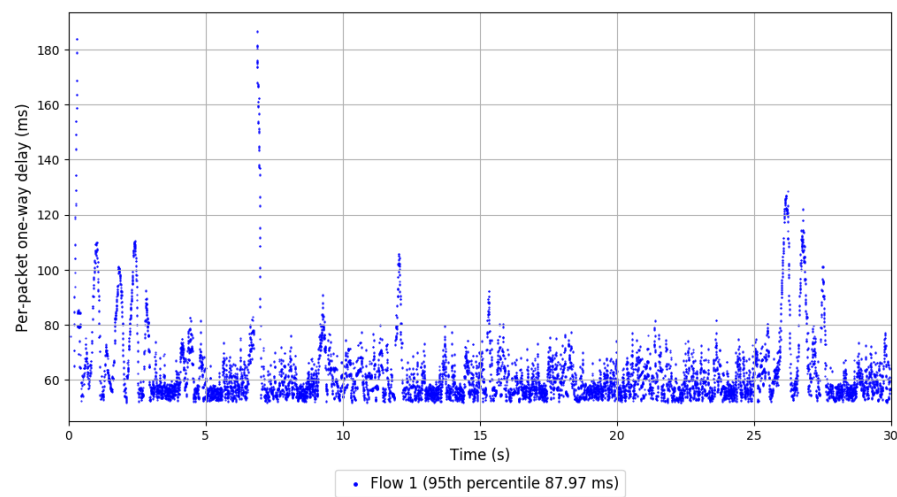
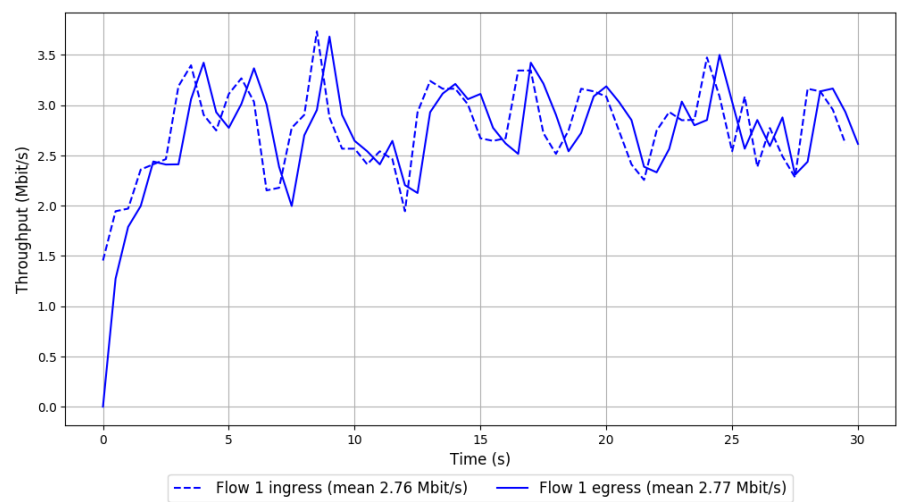


Run 5: Statistics of Copa

Start at: 2018-05-24 22:07:37
End at: 2018-05-24 22:08:07
Local clock offset: -4.237 ms
Remote clock offset: -2.325 ms

Below is generated by plot.py at 2018-05-24 23:59:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 87.971 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 87.971 ms
Loss rate: 0.20%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-24 22:24:57

End at: 2018-05-24 22:25:27

Local clock offset: -3.06 ms

Remote clock offset: 1.056 ms

Below is generated by plot.py at 2018-05-24 23:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 74.809 ms

Loss rate: 0.21%

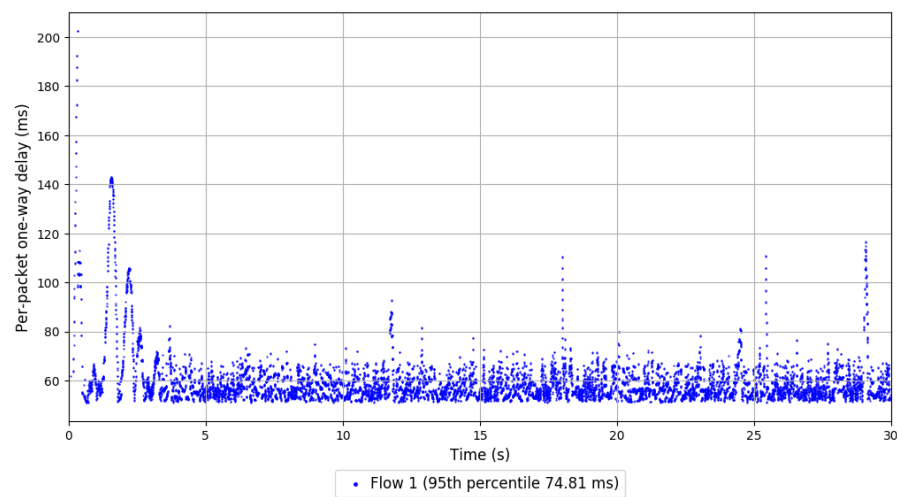
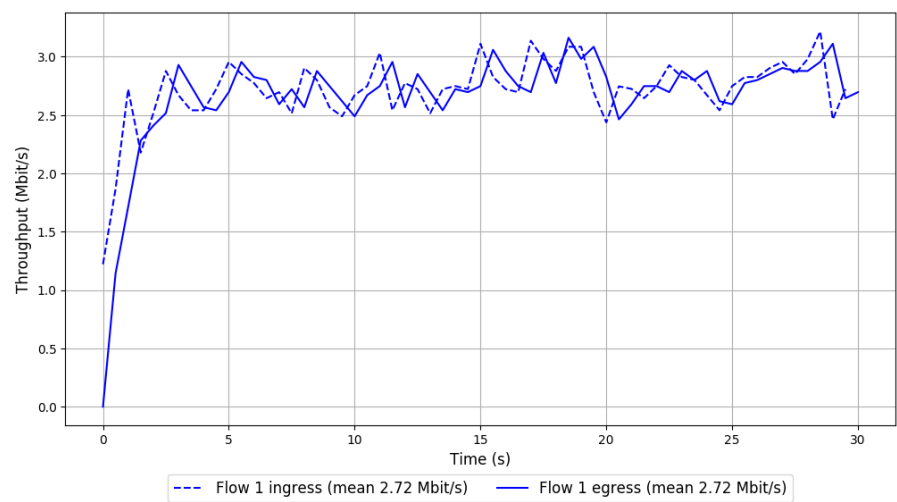
-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 74.809 ms

Loss rate: 0.21%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

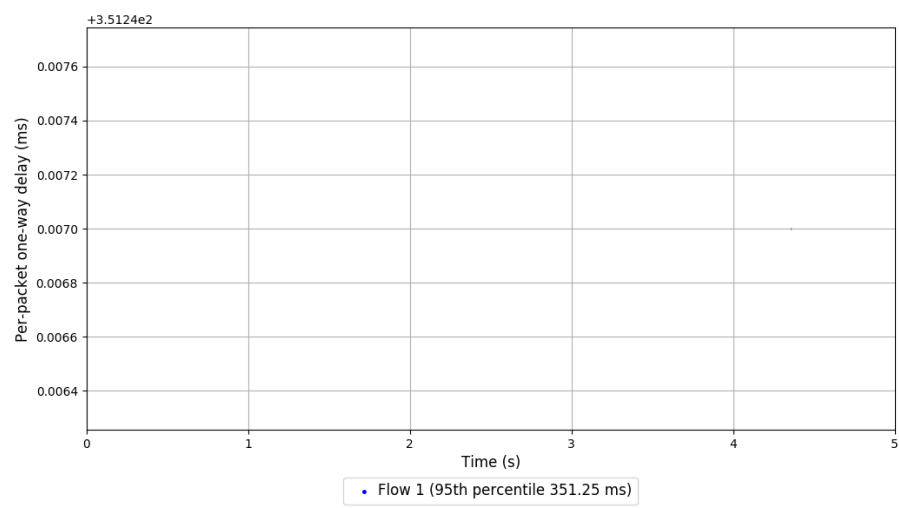
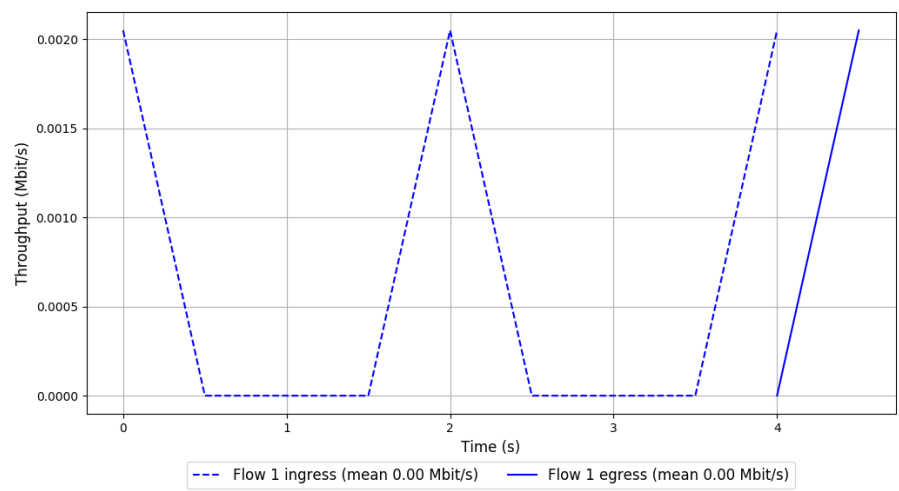
Start at: 2018-05-24 22:42:16

End at: 2018-05-24 22:42:46

Local clock offset: -2.47 ms

Remote clock offset: 3.752 ms

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/copa_stats_run

Run 8: Report of Copa — Data Link

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Run 9: Statistics of Copa

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/copa_stats_run

Run 9: Report of Copa — Data Link

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Figure is missing

Run 10: Statistics of Copa

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/copa_stats_run

Run 10: Report of Copa — Data Link

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Run 1: Statistics of TCP Cubic

Start at: 2018-05-24 20:50:56

End at: 2018-05-24 20:51:26

Local clock offset: -2.377 ms

Remote clock offset: 3.632 ms

Below is generated by plot.py at 2018-05-24 23:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 329.697 ms

Loss rate: 1.36%

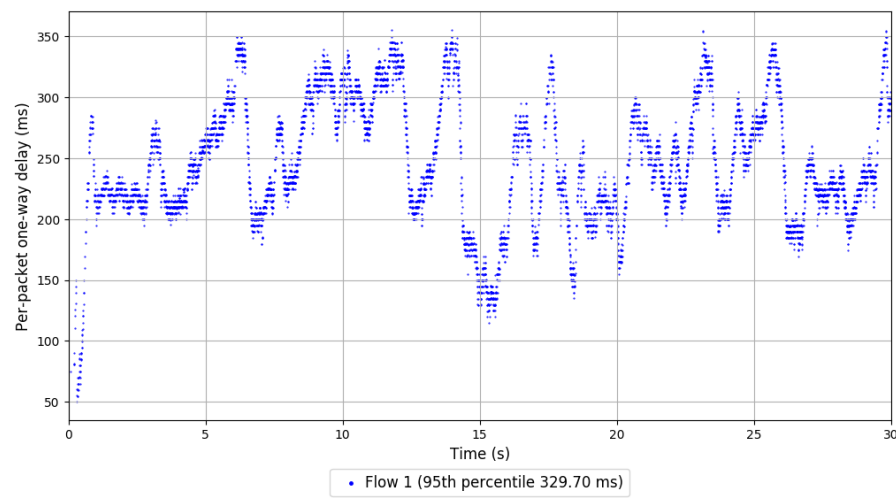
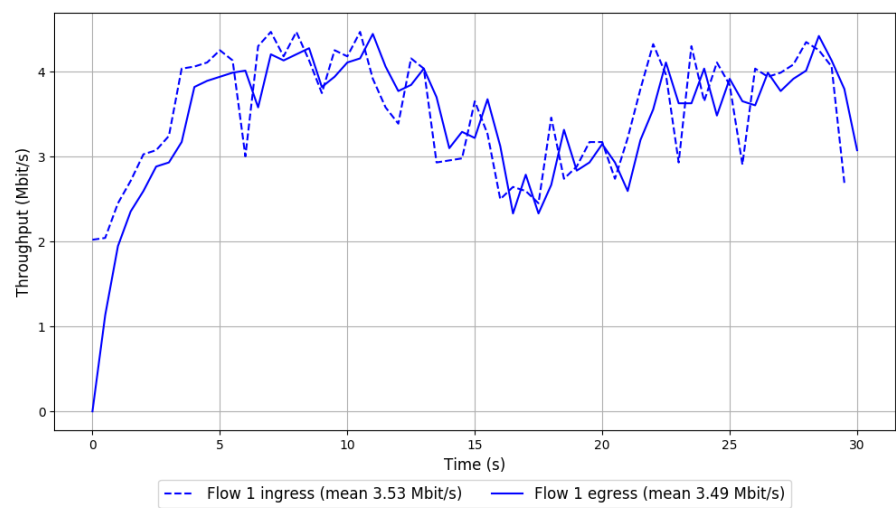
-- Flow 1:

Average throughput: 3.49 Mbit/s

95th percentile per-packet one-way delay: 329.697 ms

Loss rate: 1.36%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-24 21:08:13

End at: 2018-05-24 21:08:43

Local clock offset: -5.69 ms

Remote clock offset: 2.082 ms

Below is generated by plot.py at 2018-05-24 23:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 328.460 ms

Loss rate: 1.49%

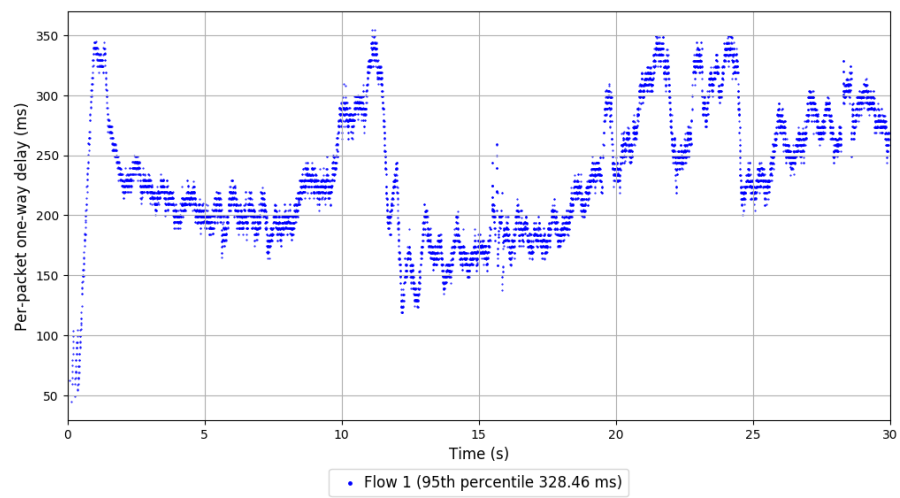
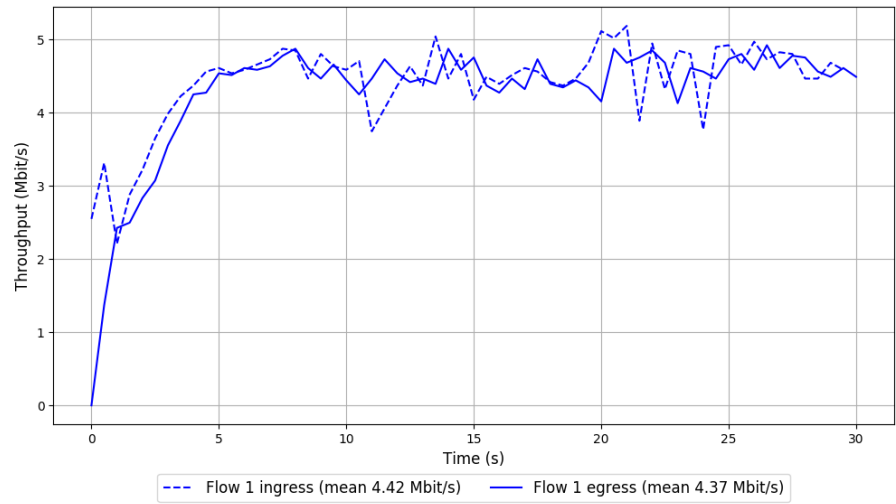
-- Flow 1:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 328.460 ms

Loss rate: 1.49%

Run 2: Report of TCP Cubic — Data Link

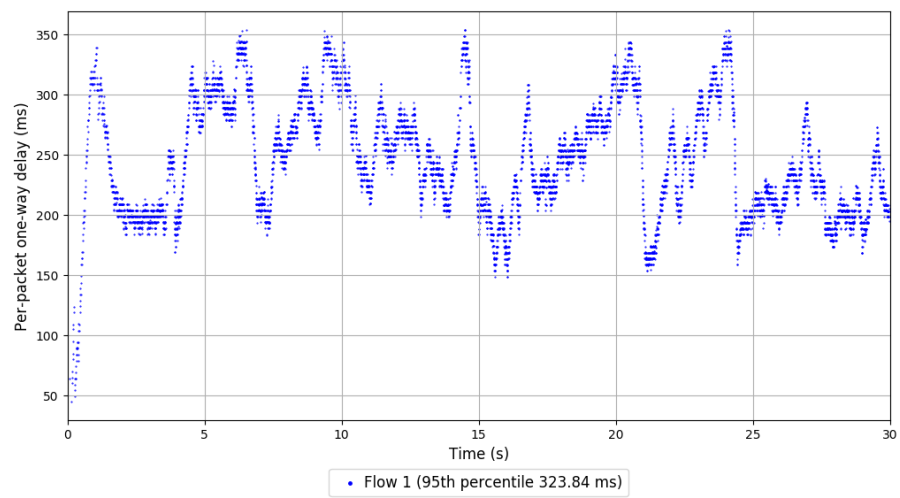
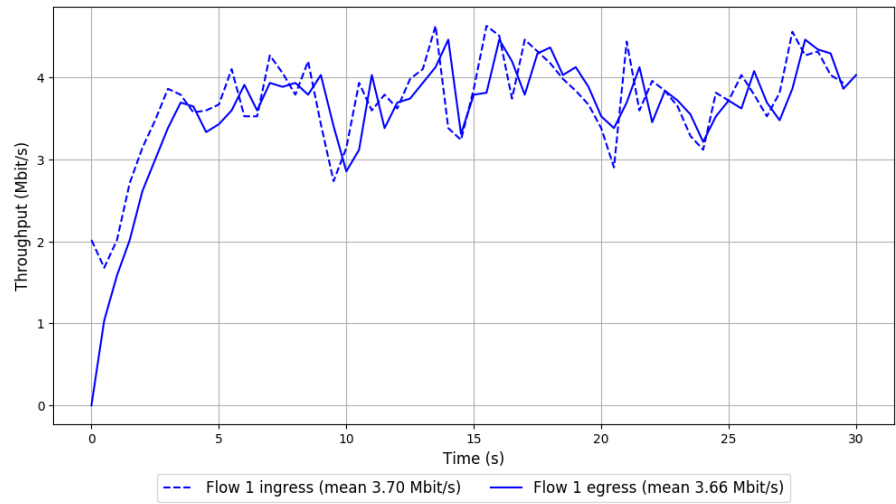


Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 21:25:30
End at: 2018-05-24 21:26:00
Local clock offset: -6.717 ms
Remote clock offset: -8.429 ms

Below is generated by plot.py at 2018-05-24 23:59:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 323.843 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 323.843 ms
Loss rate: 1.37%

Run 3: Report of TCP Cubic — Data Link

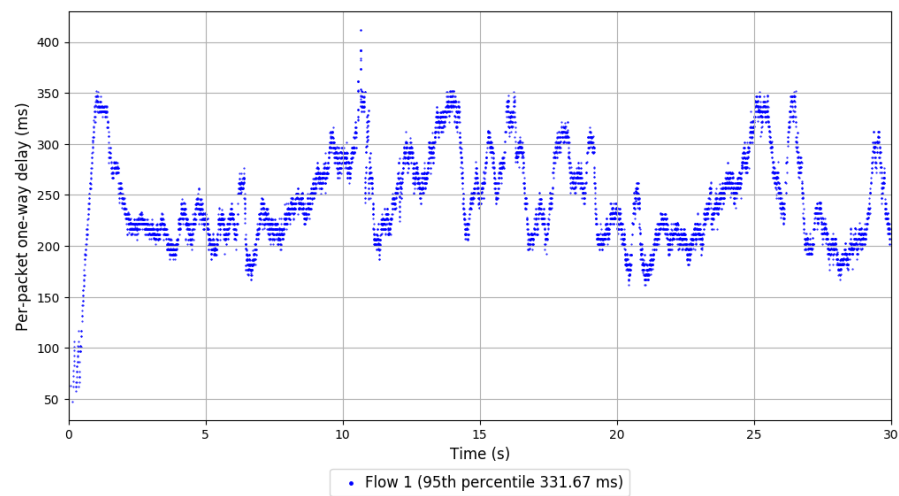
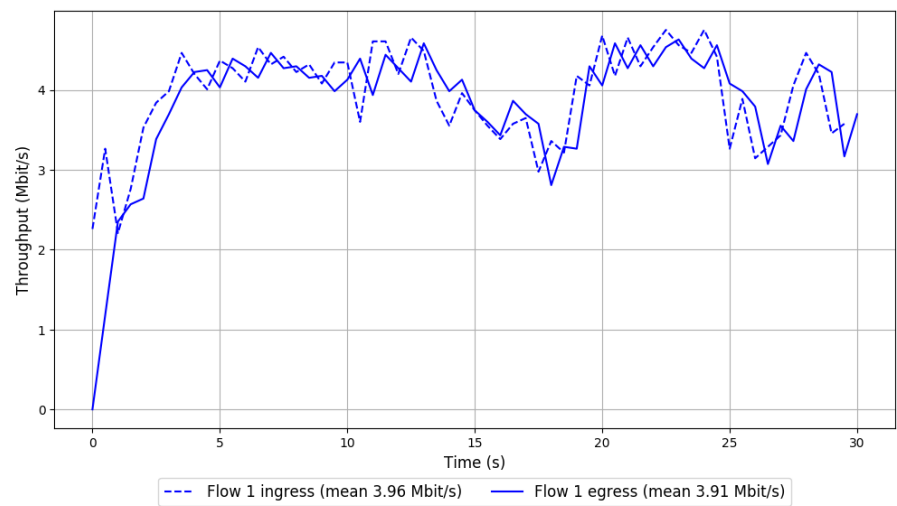


Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 21:42:47
End at: 2018-05-24 21:43:17
Local clock offset: -6.701 ms
Remote clock offset: -12.848 ms

Below is generated by plot.py at 2018-05-25 00:00:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 331.673 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 331.673 ms
Loss rate: 1.43%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 22:00:05

End at: 2018-05-24 22:00:35

Local clock offset: -5.028 ms

Remote clock offset: -4.13 ms

Below is generated by plot.py at 2018-05-25 00:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 332.195 ms

Loss rate: 1.39%

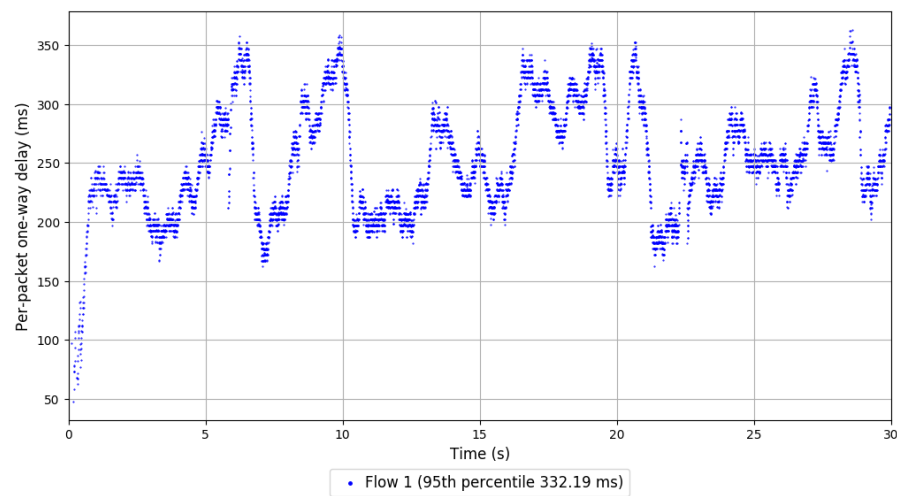
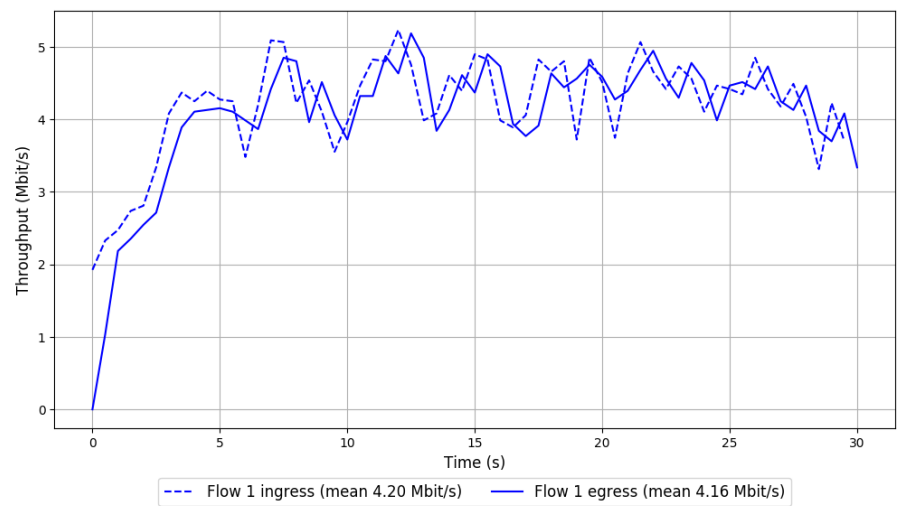
-- Flow 1:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 332.195 ms

Loss rate: 1.39%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 22:17:19

End at: 2018-05-24 22:17:49

Local clock offset: -4.87 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-05-25 00:00:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 328.620 ms

Loss rate: 1.32%

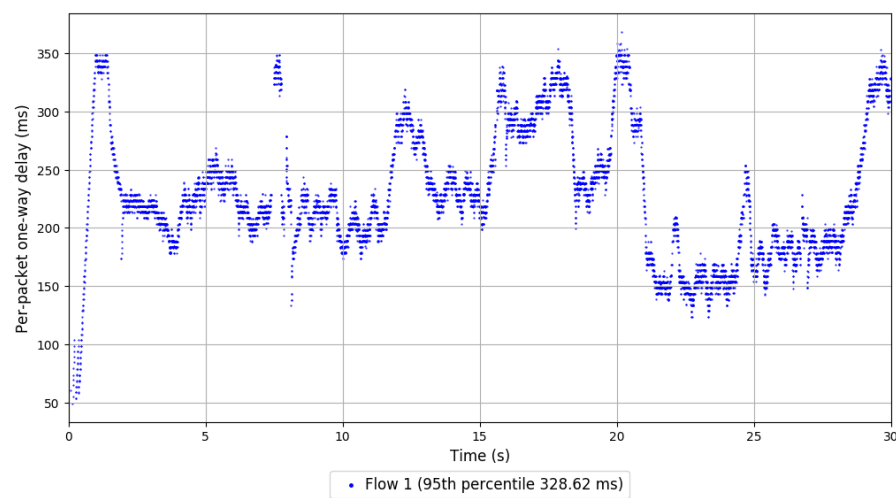
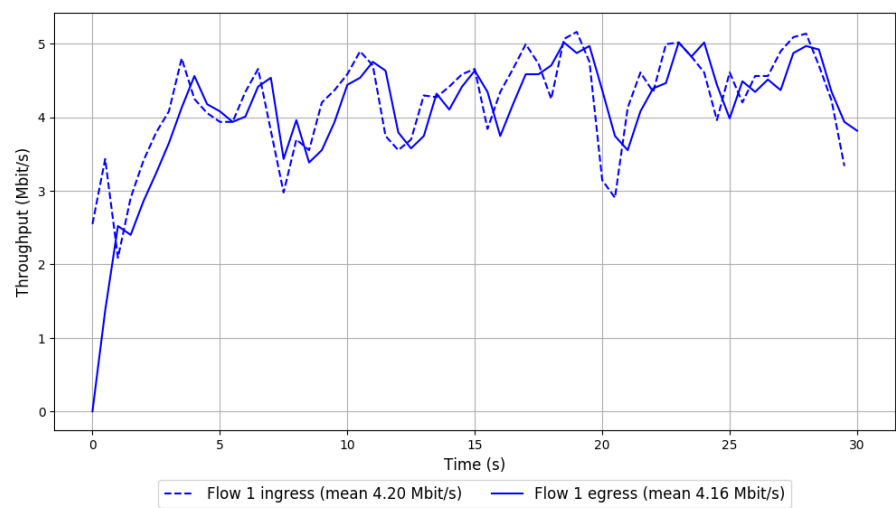
-- Flow 1:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 328.620 ms

Loss rate: 1.32%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 22:34:39

End at: 2018-05-24 22:35:09

Local clock offset: -2.279 ms

Remote clock offset: 2.582 ms

Below is generated by plot.py at 2018-05-25 00:00:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 335.111 ms

Loss rate: 1.77%

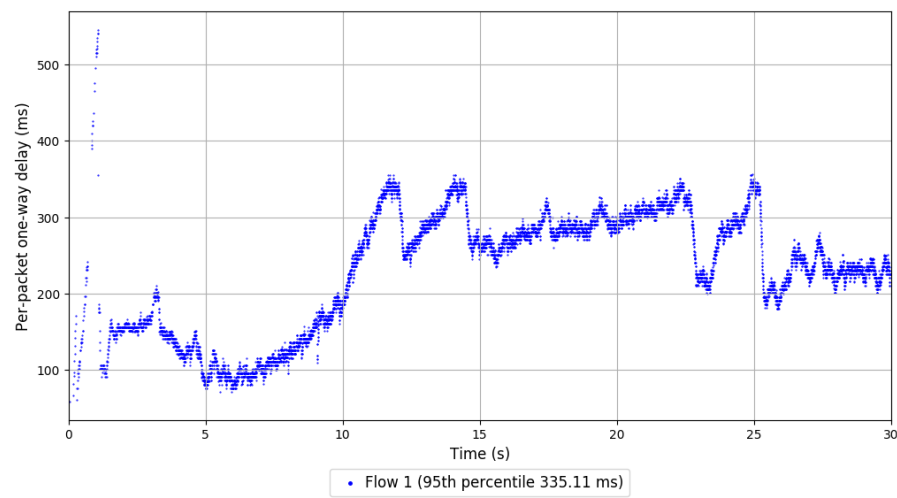
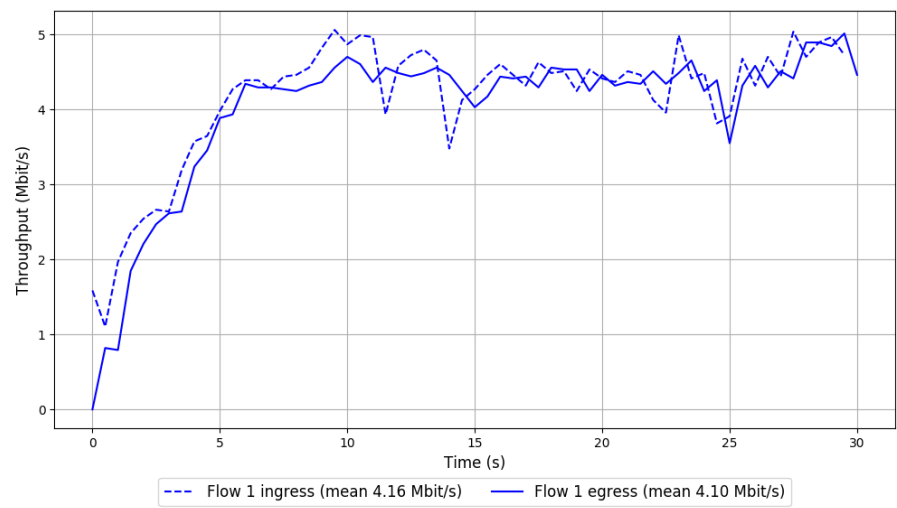
-- Flow 1:

Average throughput: 4.10 Mbit/s

95th percentile per-packet one-way delay: 335.111 ms

Loss rate: 1.77%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/cubic_stats_ru

Run 8: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/cubic_stats_ru

Run 9: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/cubic_stats_ru

Run 10: Report of TCP Cubic — Data Link

Figure is missing

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Run 1: Statistics of FillP

Start at: 2018-05-24 21:02:46

End at: 2018-05-24 21:03:16

Local clock offset: -4.774 ms

Remote clock offset: 2.767 ms

Below is generated by plot.py at 2018-05-25 00:00:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 349.218 ms

Loss rate: 25.50%

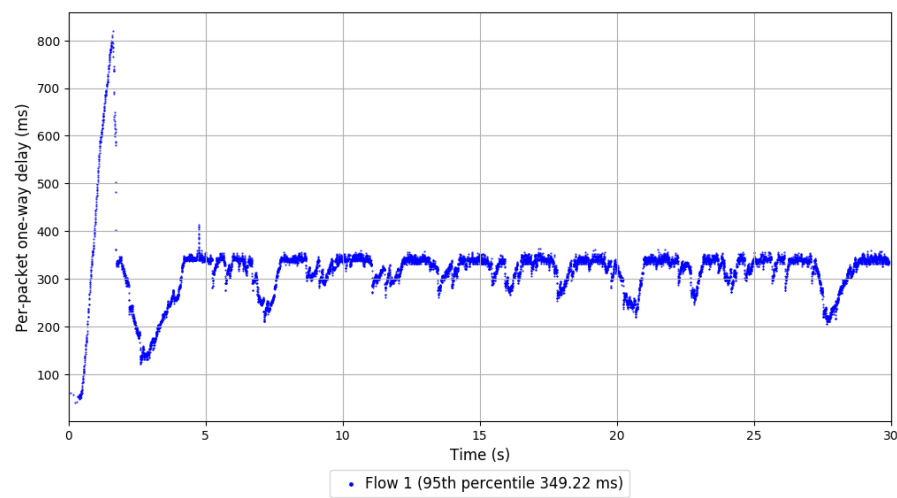
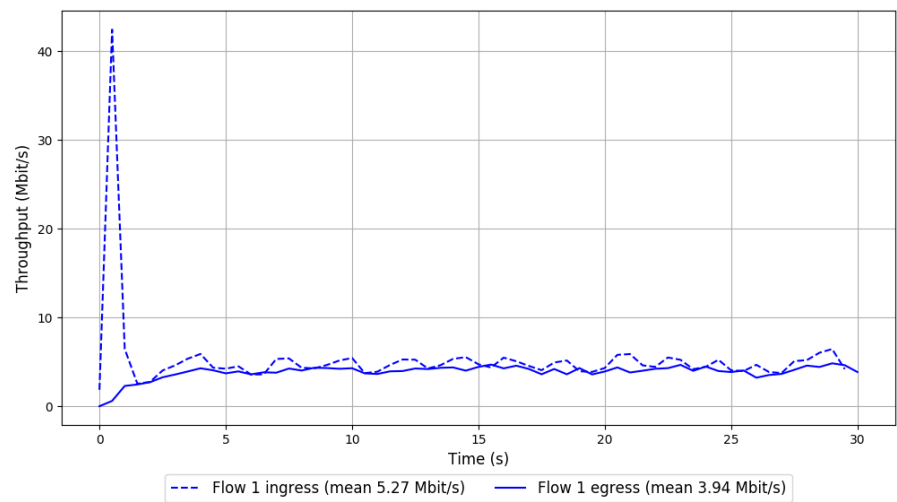
-- Flow 1:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 349.218 ms

Loss rate: 25.50%

Run 1: Report of FillP — Data Link

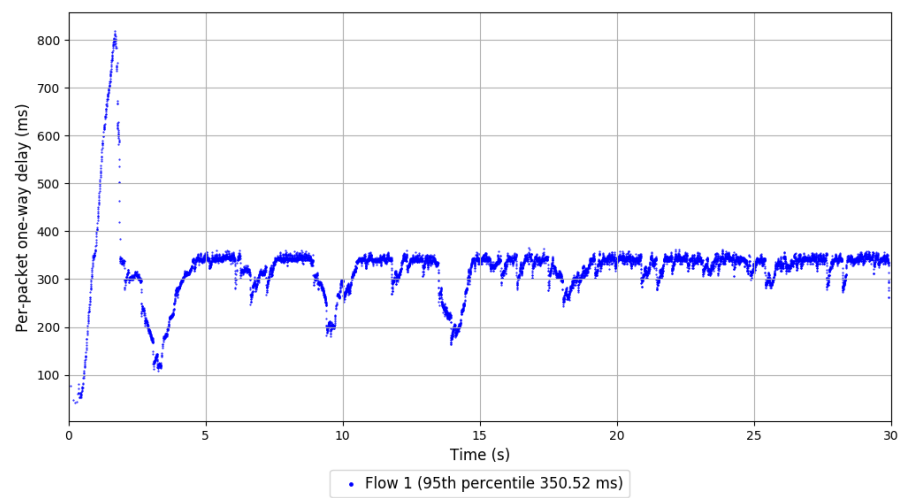
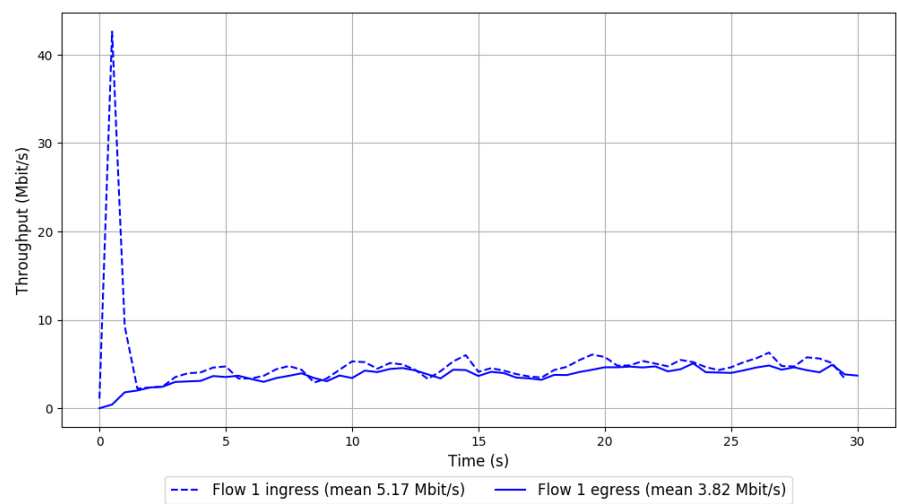


Run 2: Statistics of FillP

Start at: 2018-05-24 21:20:05
End at: 2018-05-24 21:20:35
Local clock offset: -5.625 ms
Remote clock offset: -8.076 ms

Below is generated by plot.py at 2018-05-25 00:00:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 350.523 ms
Loss rate: 26.38%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 350.523 ms
Loss rate: 26.38%

Run 2: Report of FillP — Data Link

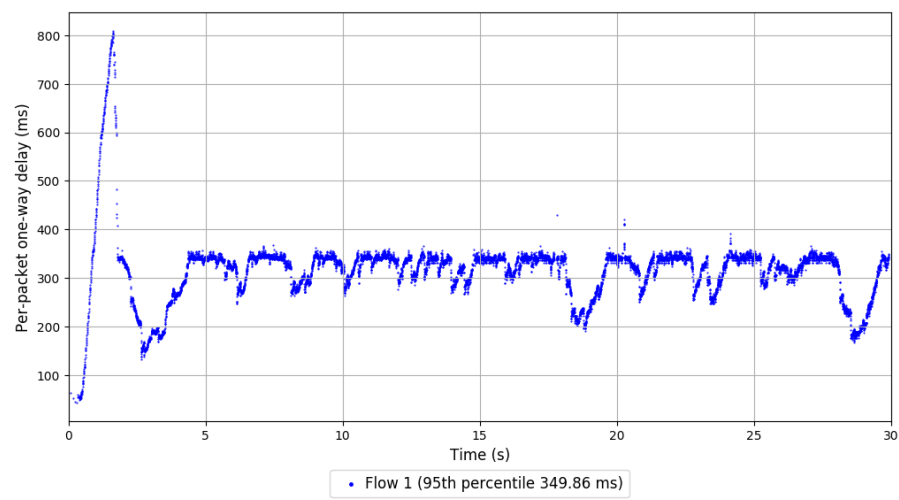
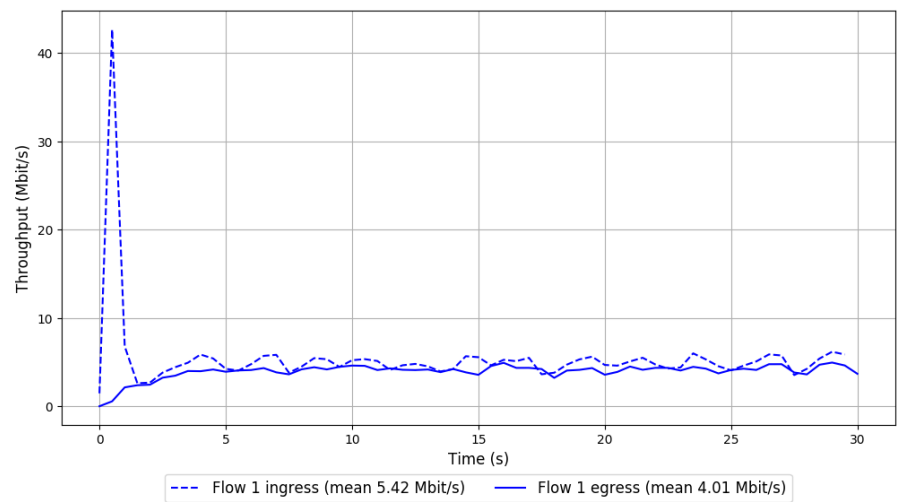


Run 3: Statistics of FillP

Start at: 2018-05-24 21:37:21
End at: 2018-05-24 21:37:51
Local clock offset: -7.311 ms
Remote clock offset: -12.55 ms

Below is generated by plot.py at 2018-05-25 00:00:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 349.864 ms
Loss rate: 26.29%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 349.864 ms
Loss rate: 26.29%

Run 3: Report of FillP — Data Link

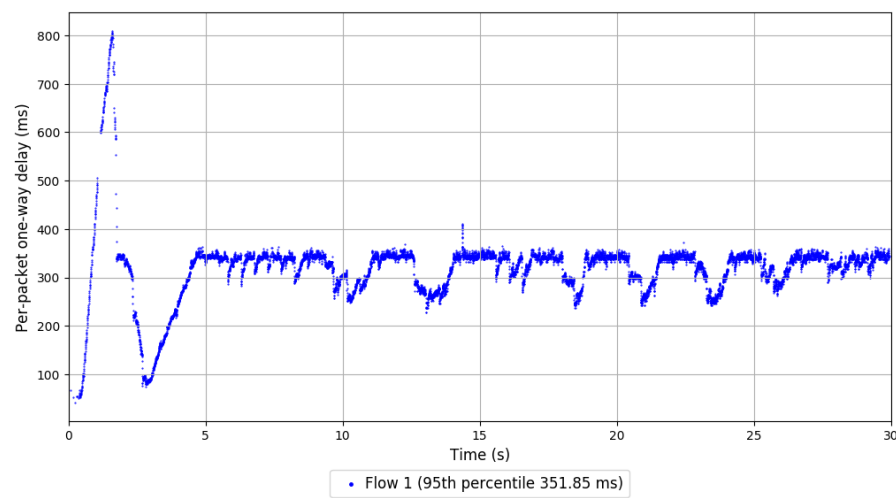
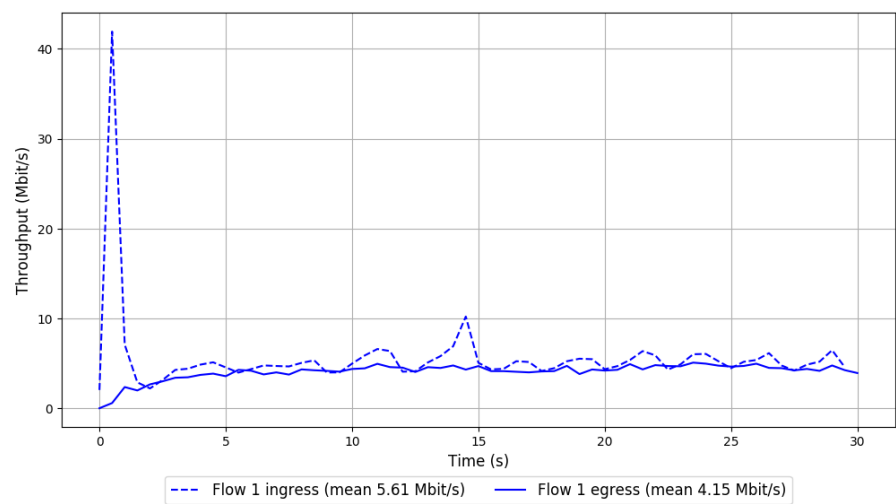


Run 4: Statistics of FillP

Start at: 2018-05-24 21:54:37
End at: 2018-05-24 21:55:07
Local clock offset: -6.659 ms
Remote clock offset: -4.373 ms

Below is generated by plot.py at 2018-05-25 00:00:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 351.853 ms
Loss rate: 26.31%
-- Flow 1:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 351.853 ms
Loss rate: 26.31%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-24 22:11:55

End at: 2018-05-24 22:12:25

Local clock offset: -5.049 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-05-25 00:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 349.770 ms

Loss rate: 24.60%

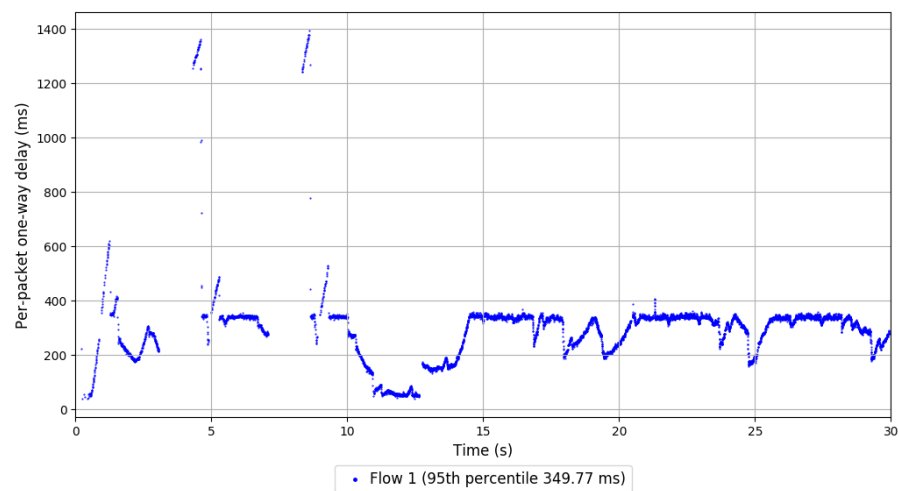
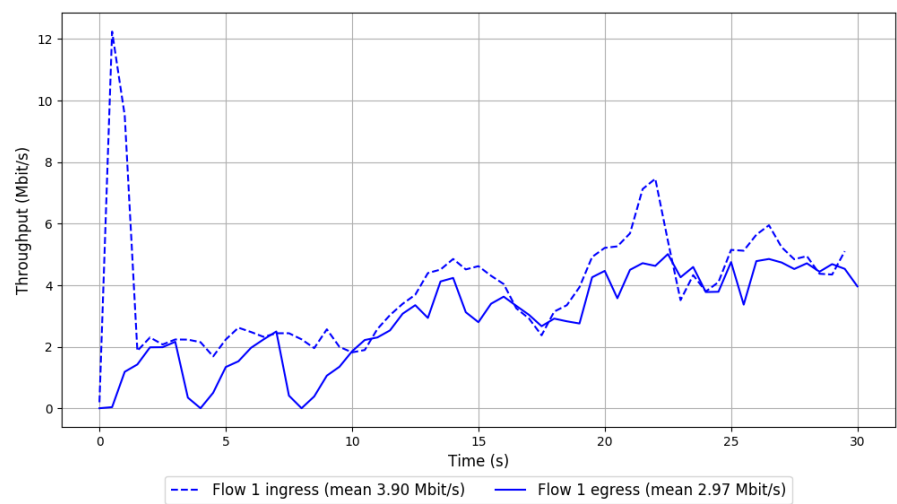
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 349.770 ms

Loss rate: 24.60%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-24 22:29:16

End at: 2018-05-24 22:29:46

Local clock offset: -8.821 ms

Remote clock offset: 2.652 ms

Below is generated by plot.py at 2018-05-25 00:00:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 347.727 ms

Loss rate: 32.58%

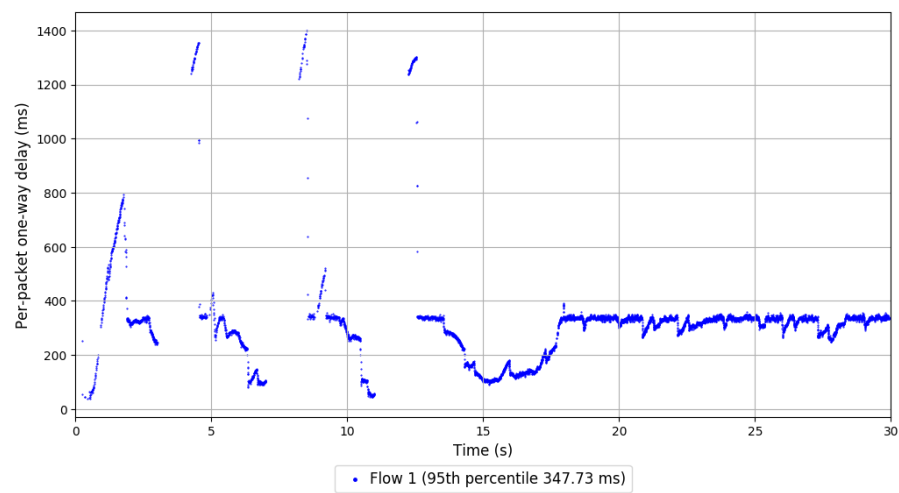
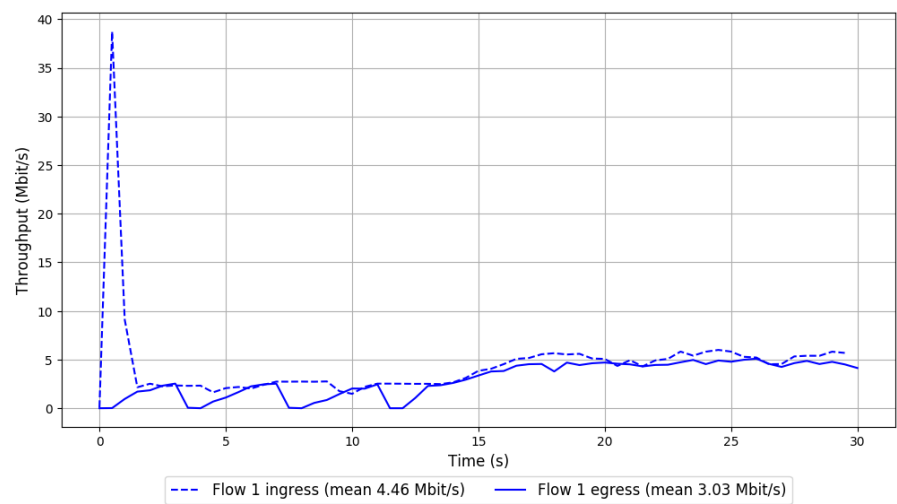
-- Flow 1:

Average throughput: 3.03 Mbit/s

95th percentile per-packet one-way delay: 347.727 ms

Loss rate: 32.58%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-24 22:46:34

End at: 2018-05-24 22:47:04

Local clock offset: -3.297 ms

Remote clock offset: 4.775 ms

Below is generated by plot.py at 2018-05-25 00:00:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 346.500 ms

Loss rate: 27.79%

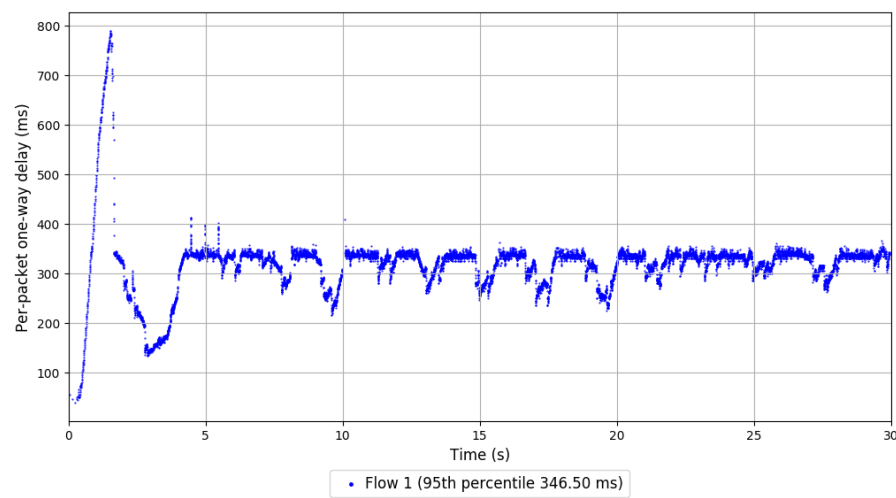
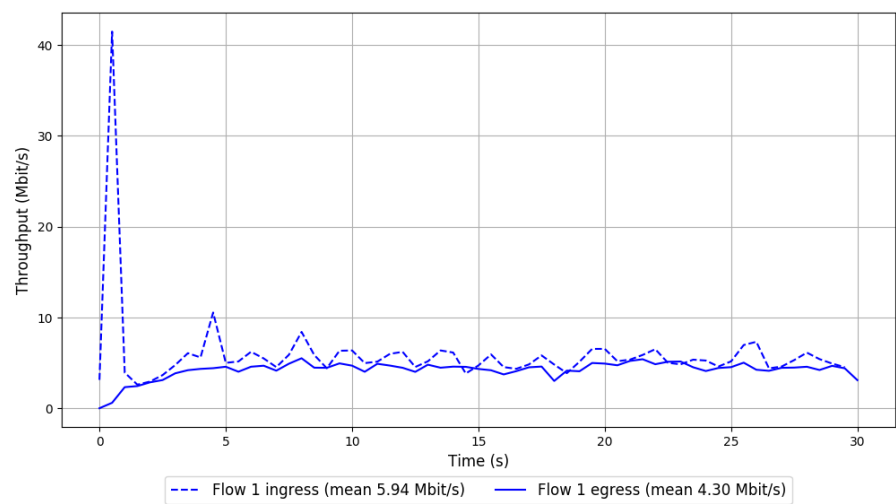
-- Flow 1:

Average throughput: 4.30 Mbit/s

95th percentile per-packet one-way delay: 346.500 ms

Loss rate: 27.79%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/fillp_stats_ru

Run 8: Report of FillP — Data Link

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Figure is missing

Run 9: Statistics of FillP

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/fillp_stats_ru

Run 9: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/fillp_stats_ru

Run 10: Report of FillP — Data Link

Figure is missing

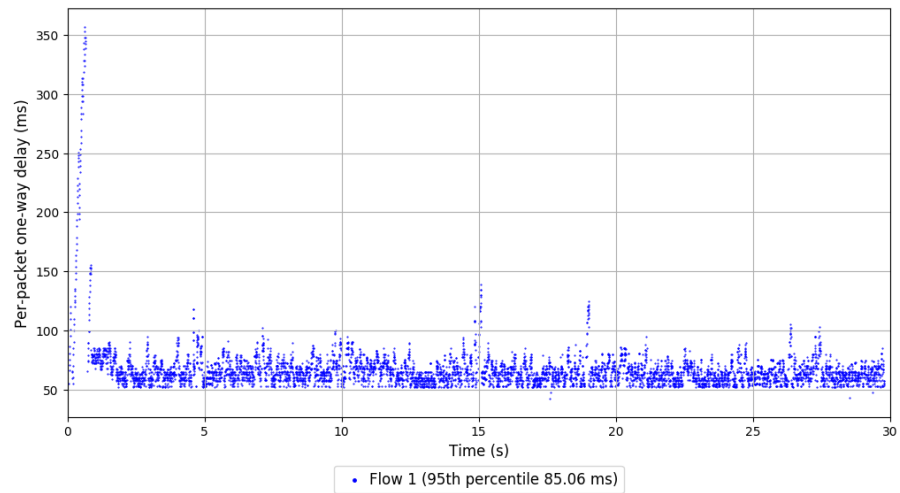
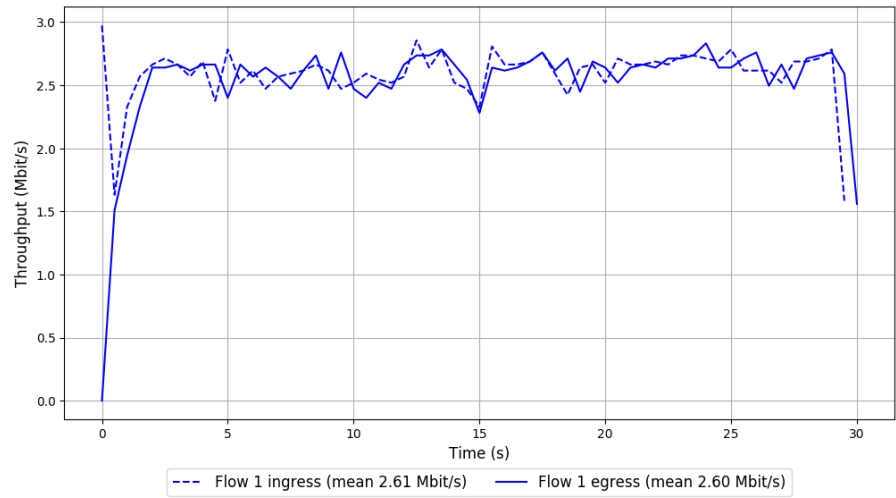
Figure is missing

```
Run 1: Statistics of Indigo

Start at: 2018-05-24 20:57:23
End at: 2018-05-24 20:57:53
Local clock offset: -0.936 ms
Remote clock offset: 3.609 ms

# Below is generated by plot.py at 2018-05-25 00:00:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 85.057 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 85.057 ms
Loss rate: 0.80%
```

Run 1: Report of Indigo — Data Link

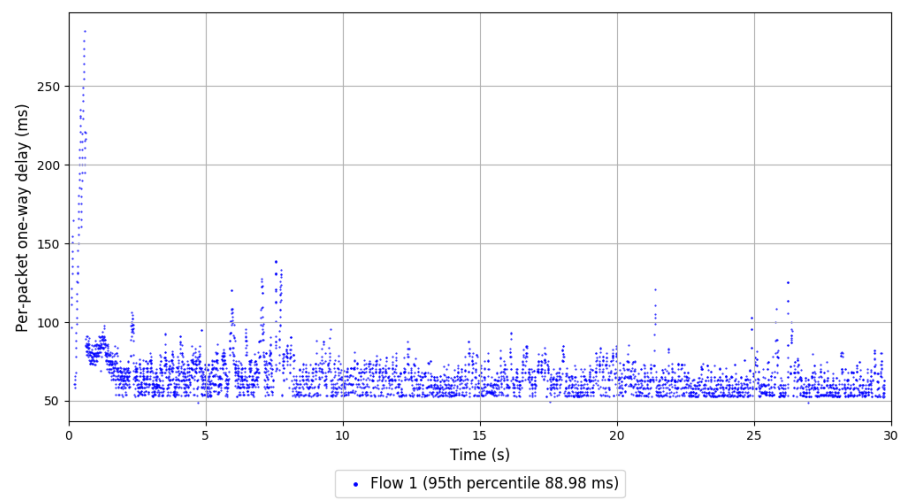
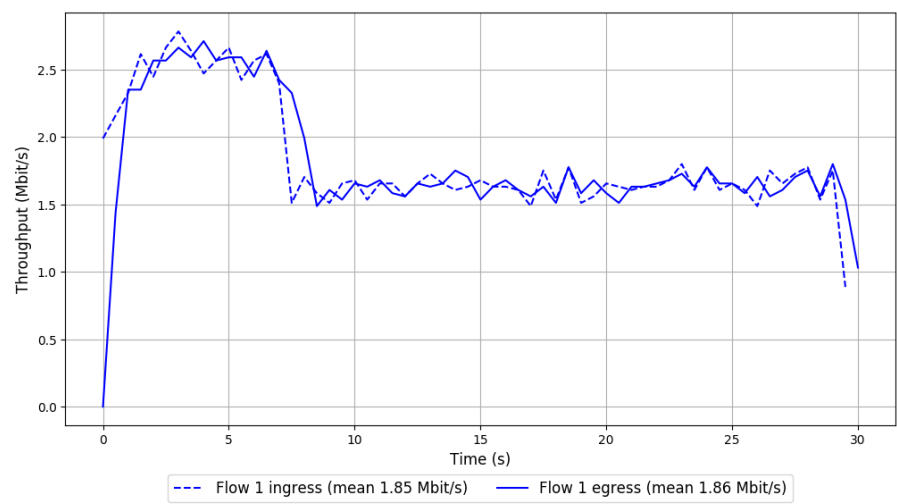


Run 2: Statistics of Indigo

Start at: 2018-05-24 21:14:41
End at: 2018-05-24 21:15:11
Local clock offset: -9.574 ms
Remote clock offset: -10.708 ms

Below is generated by plot.py at 2018-05-25 00:00:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 88.983 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 88.983 ms
Loss rate: 0.15%

Run 2: Report of Indigo — Data Link

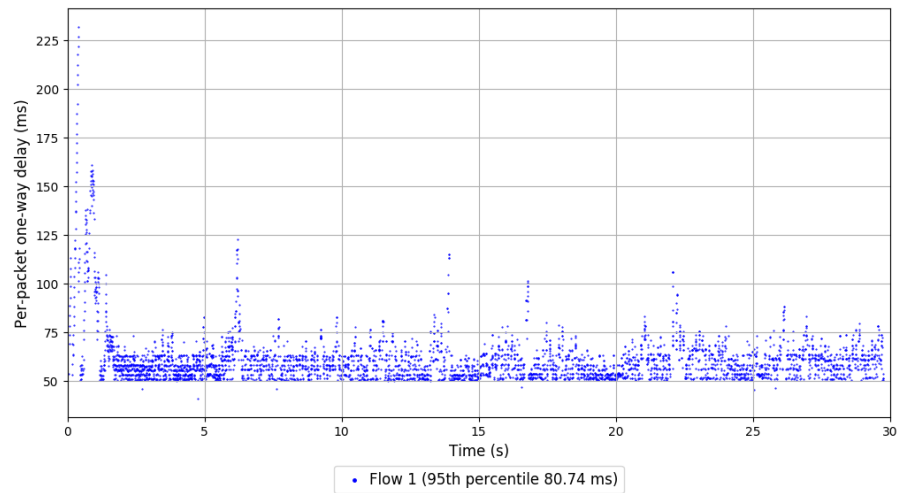
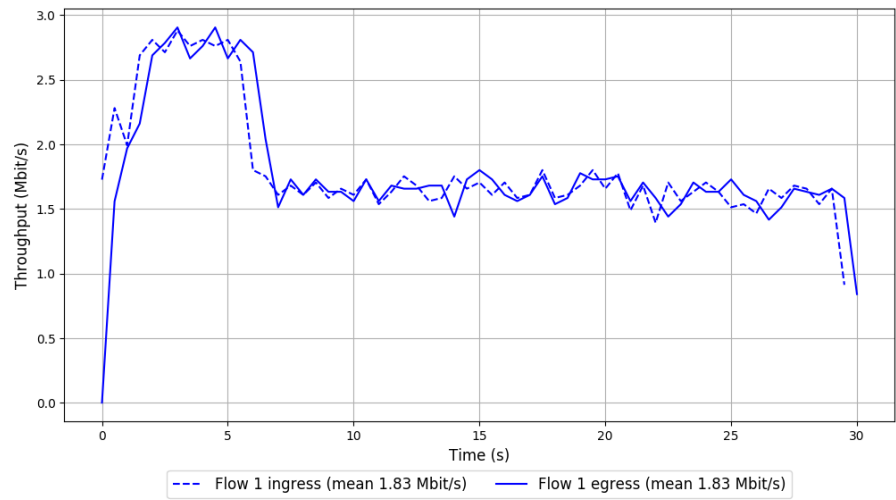


Run 3: Statistics of Indigo

Start at: 2018-05-24 21:31:57
End at: 2018-05-24 21:32:27
Local clock offset: -6.357 ms
Remote clock offset: -10.816 ms

Below is generated by plot.py at 2018-05-25 00:00:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 80.738 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 80.738 ms
Loss rate: 0.24%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-24 21:49:15

End at: 2018-05-24 21:49:45

Local clock offset: -7.31 ms

Remote clock offset: -6.1 ms

Below is generated by plot.py at 2018-05-25 00:00:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 80.805 ms

Loss rate: 0.35%

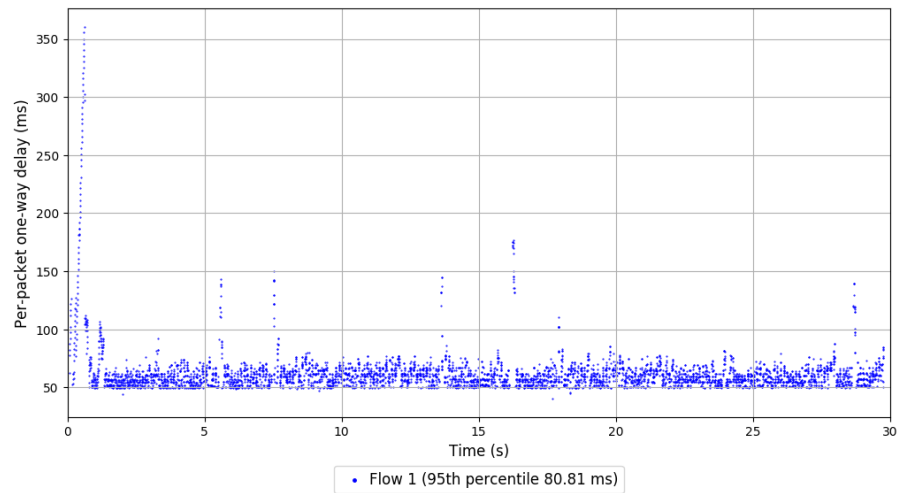
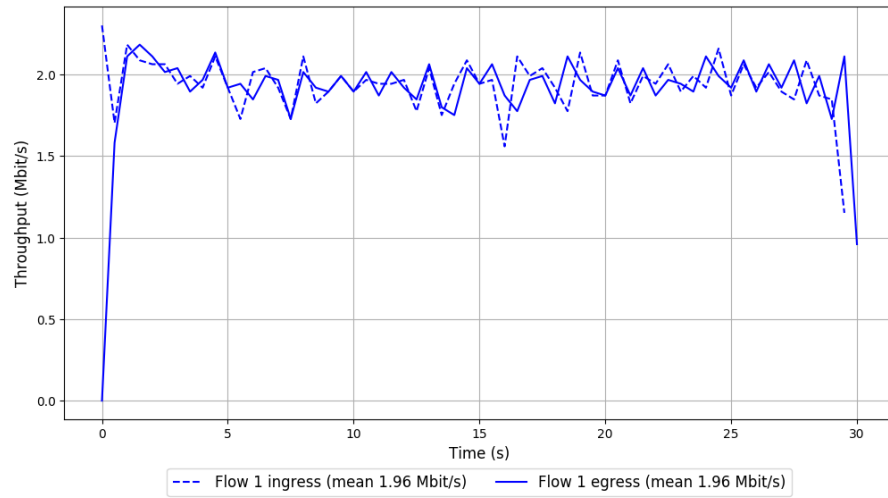
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 80.805 ms

Loss rate: 0.35%

Run 4: Report of Indigo — Data Link

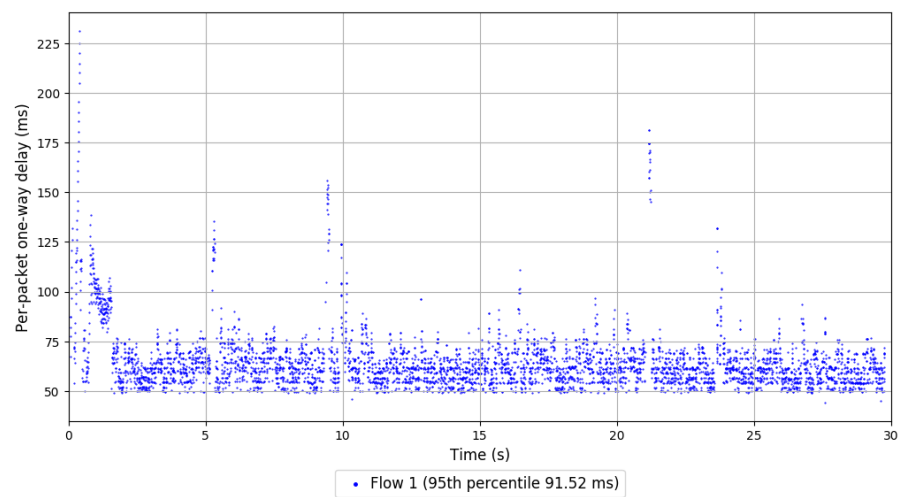
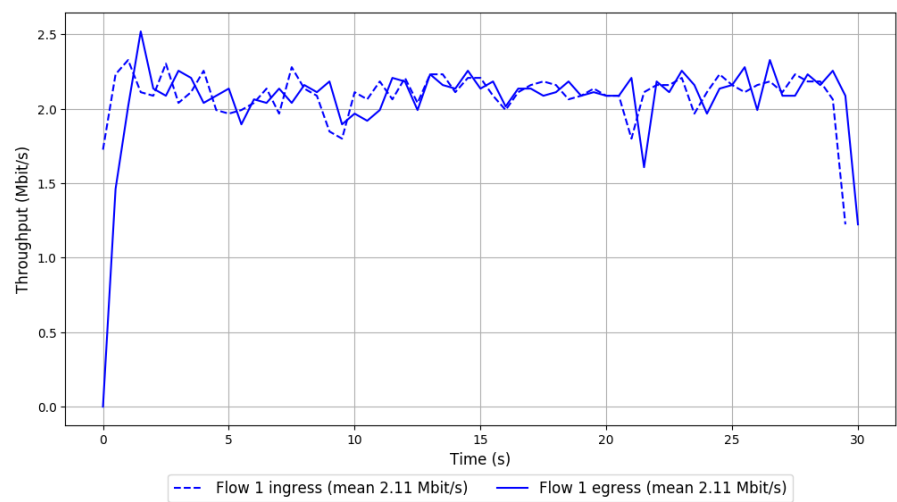


Run 5: Statistics of Indigo

Start at: 2018-05-24 22:06:32
End at: 2018-05-24 22:07:02
Local clock offset: -5.255 ms
Remote clock offset: -1.136 ms

Below is generated by plot.py at 2018-05-25 00:00:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 91.519 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 91.519 ms
Loss rate: 0.17%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-24 22:23:52

End at: 2018-05-24 22:24:22

Local clock offset: -5.319 ms

Remote clock offset: 1.711 ms

Below is generated by plot.py at 2018-05-25 00:00:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 77.599 ms

Loss rate: 2.05%

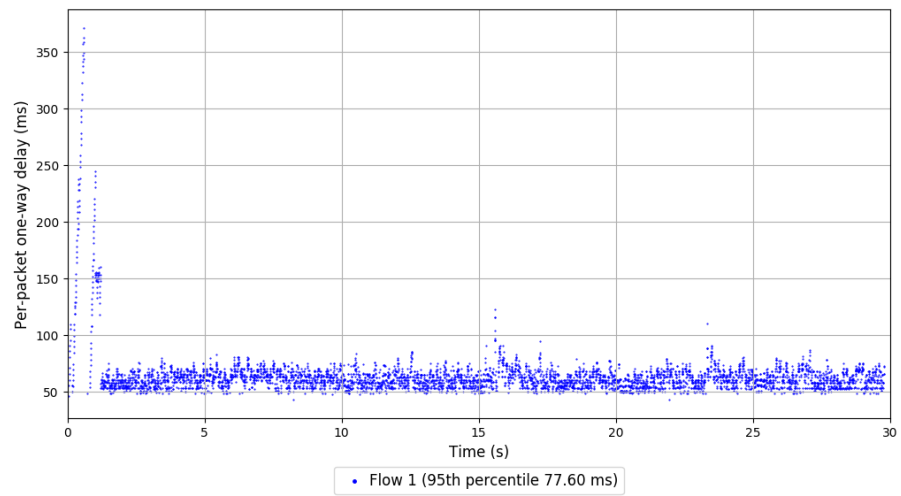
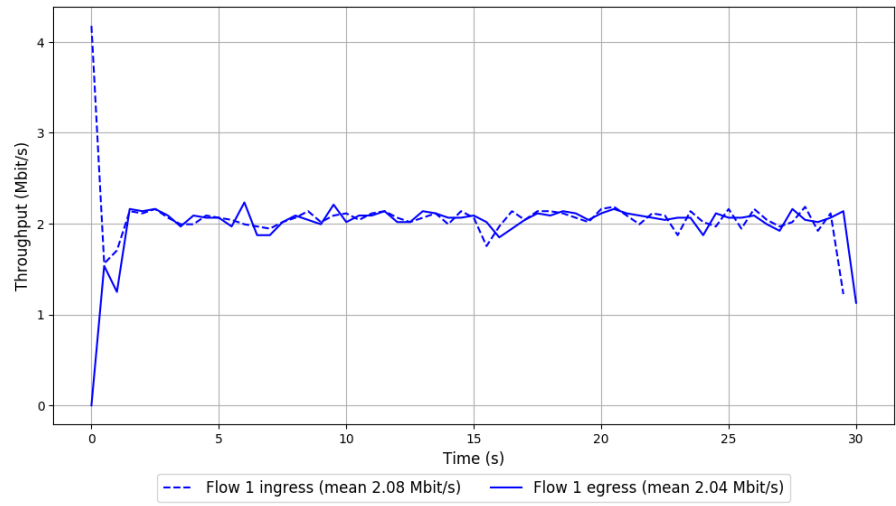
-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 77.599 ms

Loss rate: 2.05%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-24 22:41:12

End at: 2018-05-24 22:41:42

Local clock offset: -2.573 ms

Remote clock offset: 3.123 ms

Below is generated by plot.py at 2018-05-25 00:00:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 74.306 ms

Loss rate: 0.51%

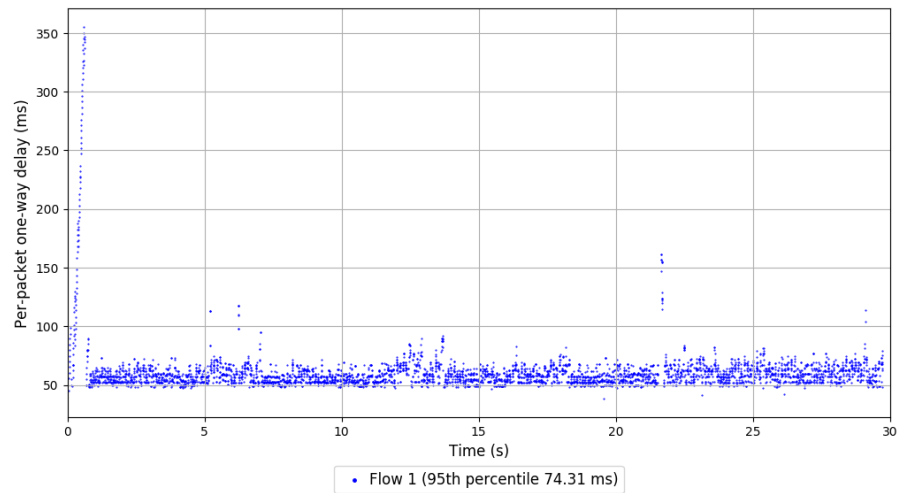
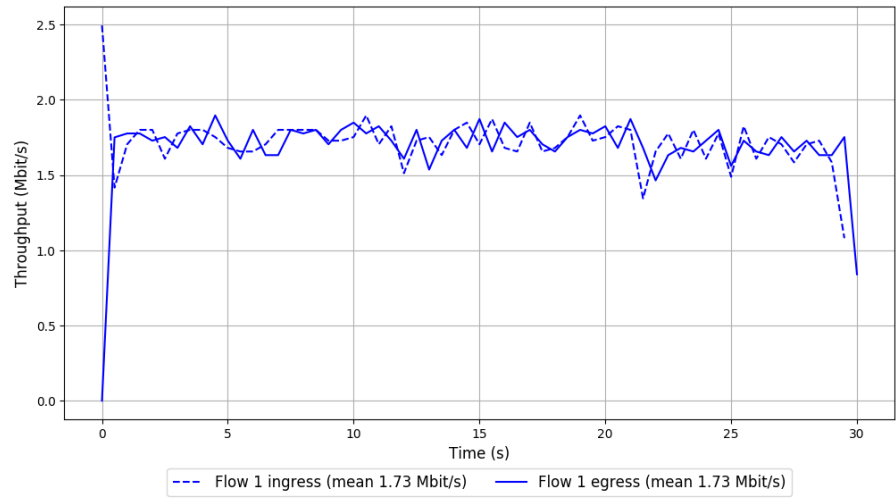
-- Flow 1:

Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 74.306 ms

Loss rate: 0.51%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/indigo_stats_1

Run 8: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/indigo_stats_1

Run 9: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/indigo_stats_1

Run 10: Report of Indigo — Data Link

Figure is missing

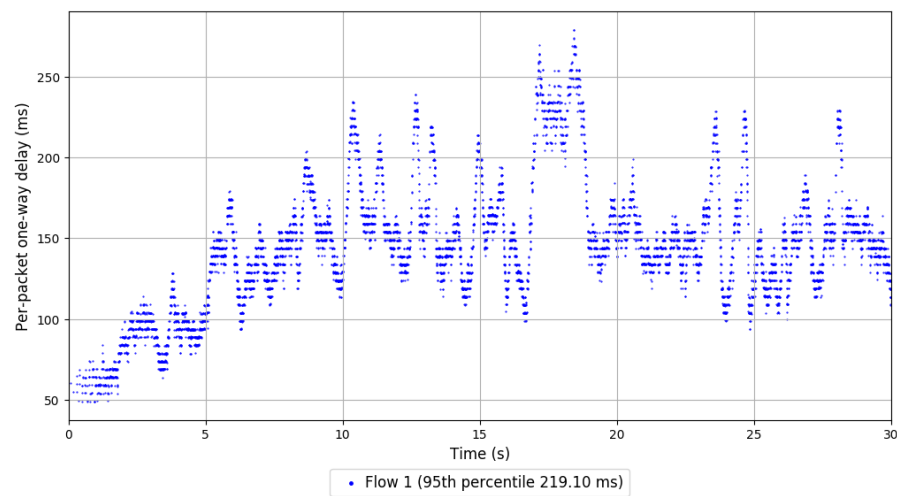
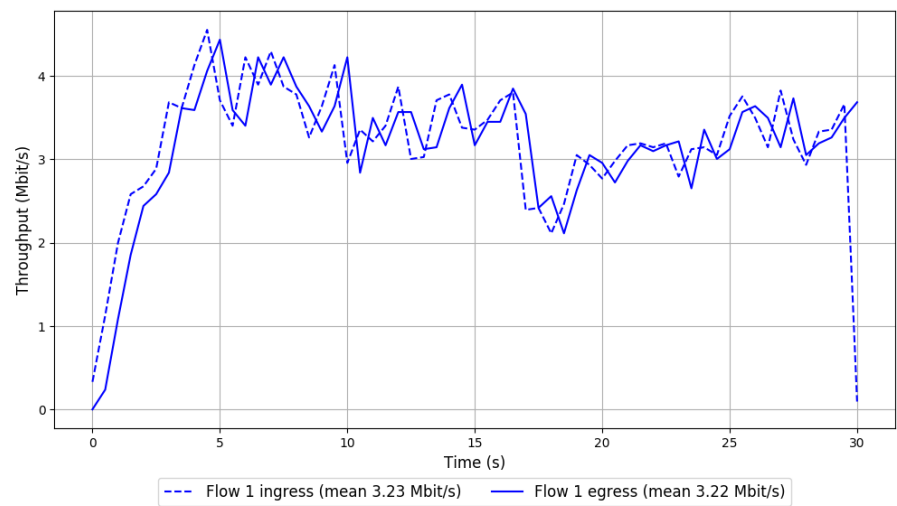
Figure is missing

```
Run 1: Statistics of LEDBAT

Start at: 2018-05-24 20:54:10
End at: 2018-05-24 20:54:40
Local clock offset: -1.764 ms
Remote clock offset: 3.742 ms

# Below is generated by plot.py at 2018-05-25 00:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 219.102 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 219.102 ms
Loss rate: 0.51%
```

Run 1: Report of LEDBAT — Data Link

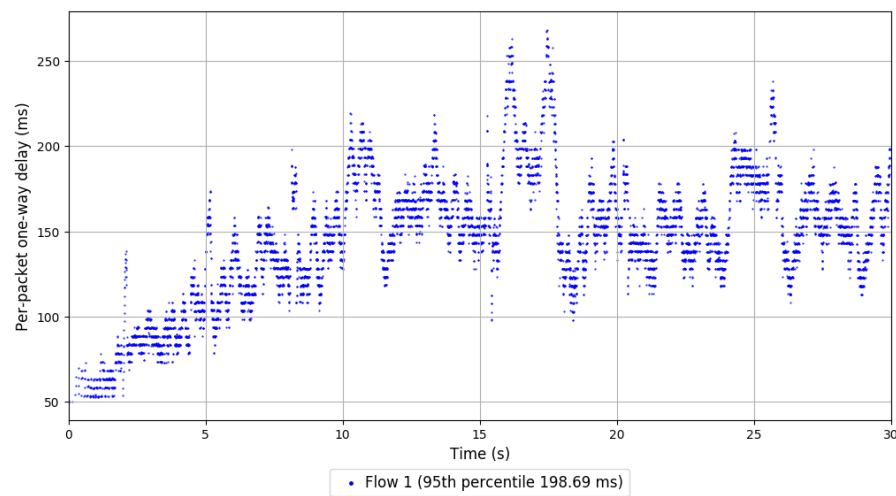
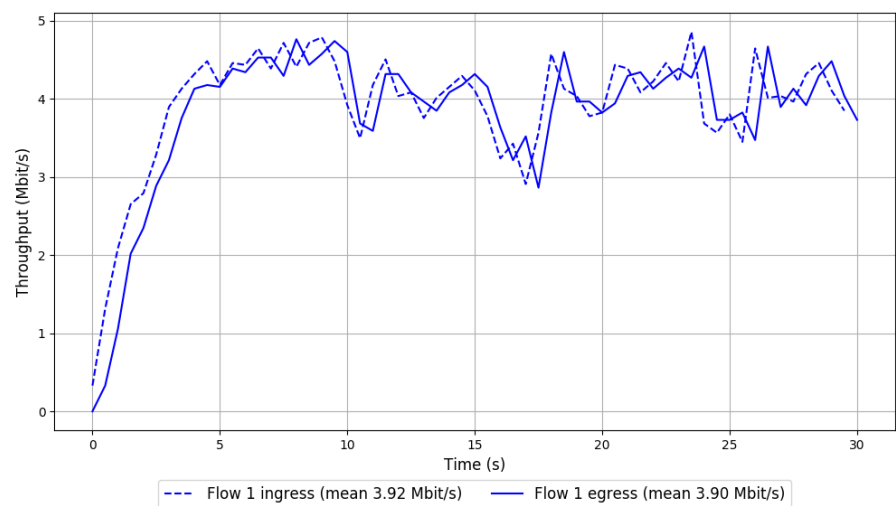


Run 2: Statistics of LEDBAT

Start at: 2018-05-24 21:11:27
End at: 2018-05-24 21:11:57
Local clock offset: -4.692 ms
Remote clock offset: -0.849 ms

Below is generated by plot.py at 2018-05-25 00:00:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 198.695 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 198.695 ms
Loss rate: 0.61%

Run 2: Report of LEDBAT — Data Link

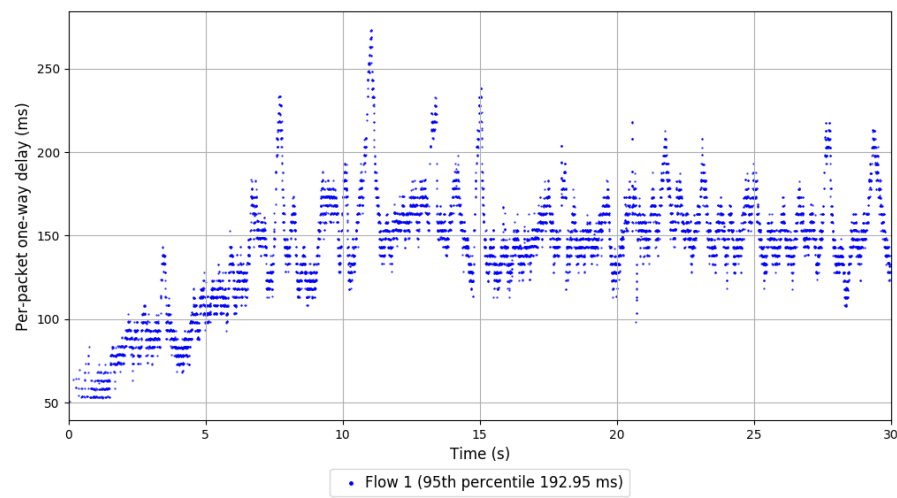
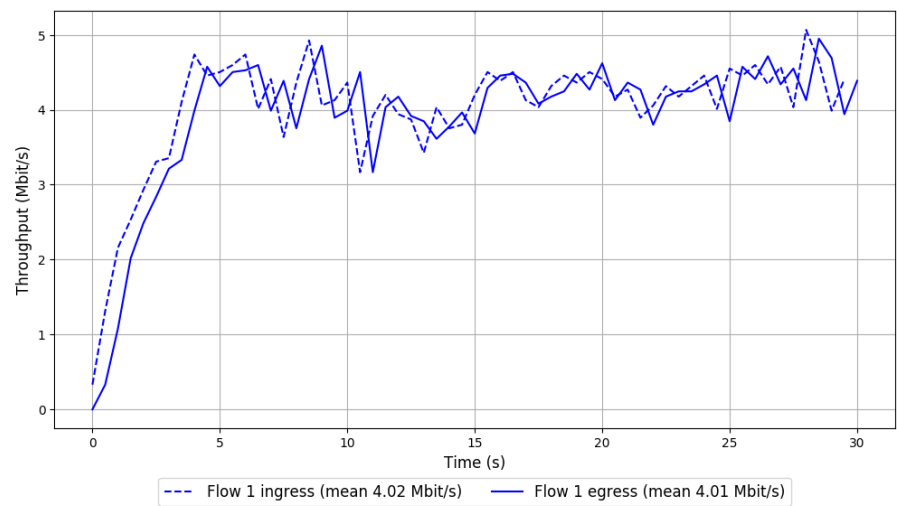


Run 3: Statistics of LEDBAT

Start at: 2018-05-24 21:28:44
End at: 2018-05-24 21:29:14
Local clock offset: -6.424 ms
Remote clock offset: -9.211 ms

Below is generated by plot.py at 2018-05-25 00:00:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 192.949 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 192.949 ms
Loss rate: 0.59%

Run 3: Report of LEDBAT — Data Link

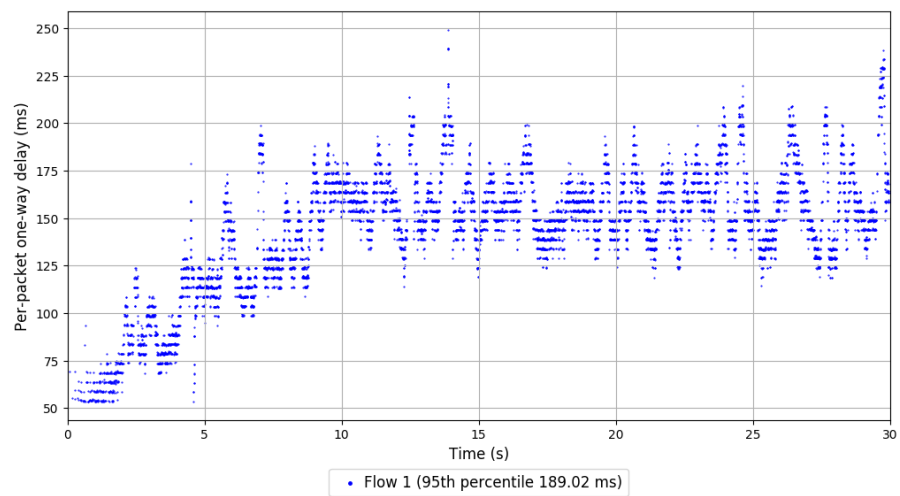
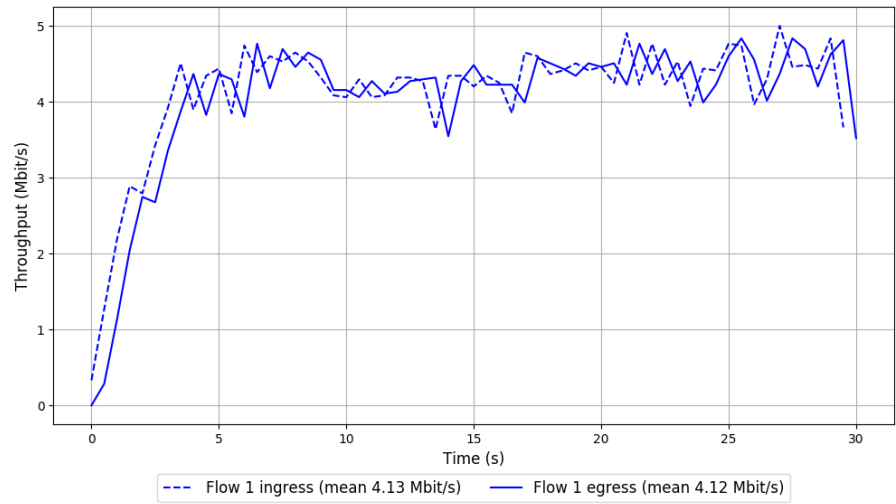


Run 4: Statistics of LEDBAT

Start at: 2018-05-24 21:46:01
End at: 2018-05-24 21:46:31
Local clock offset: -6.43 ms
Remote clock offset: -8.136 ms

Below is generated by plot.py at 2018-05-25 00:00:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 189.016 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 189.016 ms
Loss rate: 0.63%

Run 4: Report of LEDBAT — Data Link

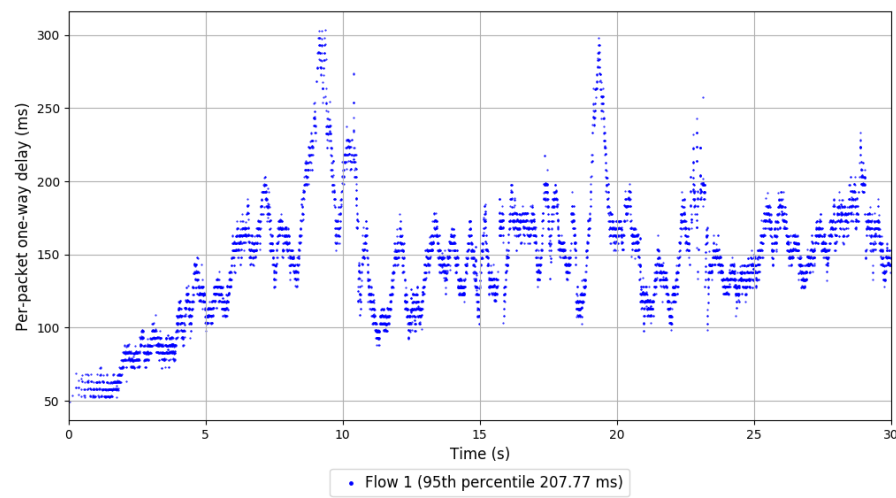
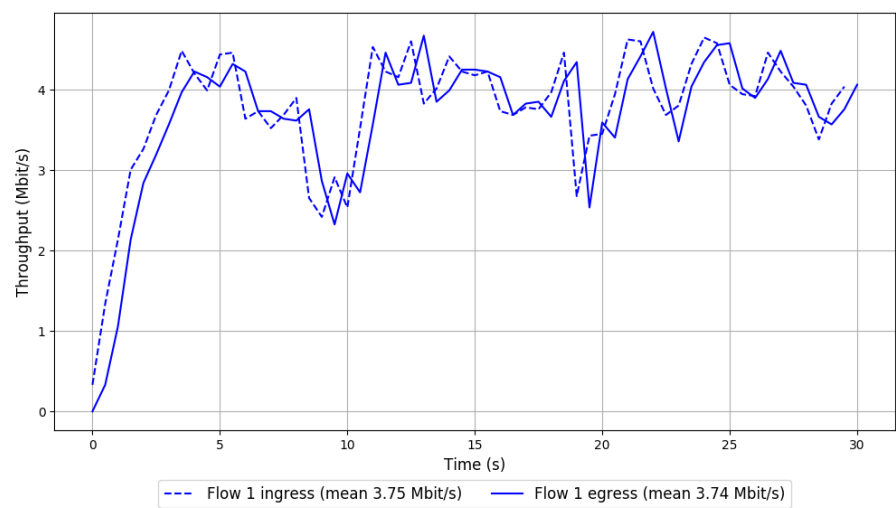


Run 5: Statistics of LEDBAT

Start at: 2018-05-24 22:03:19
End at: 2018-05-24 22:03:49
Local clock offset: -5.727 ms
Remote clock offset: -1.432 ms

Below is generated by plot.py at 2018-05-25 00:00:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 207.774 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 207.774 ms
Loss rate: 0.55%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-24 22:20:33

End at: 2018-05-24 22:21:03

Local clock offset: -3.854 ms

Remote clock offset: 0.822 ms

Below is generated by plot.py at 2018-05-25 00:00:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 188.172 ms

Loss rate: 0.61%

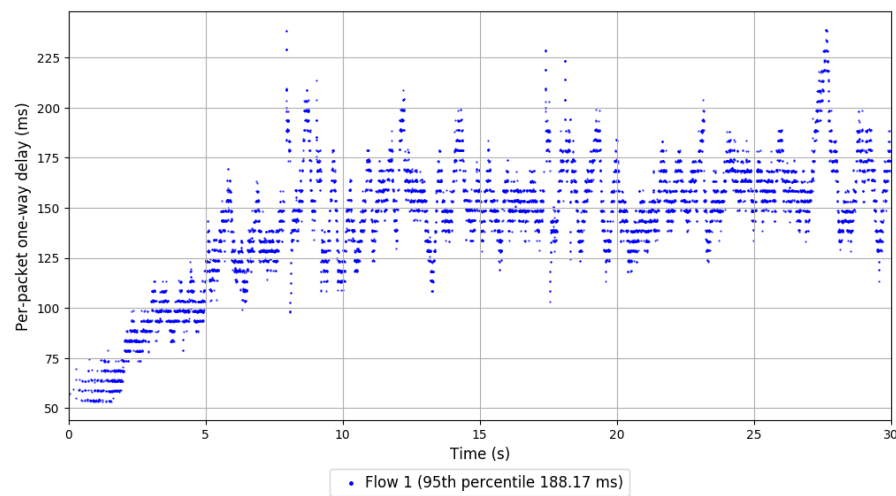
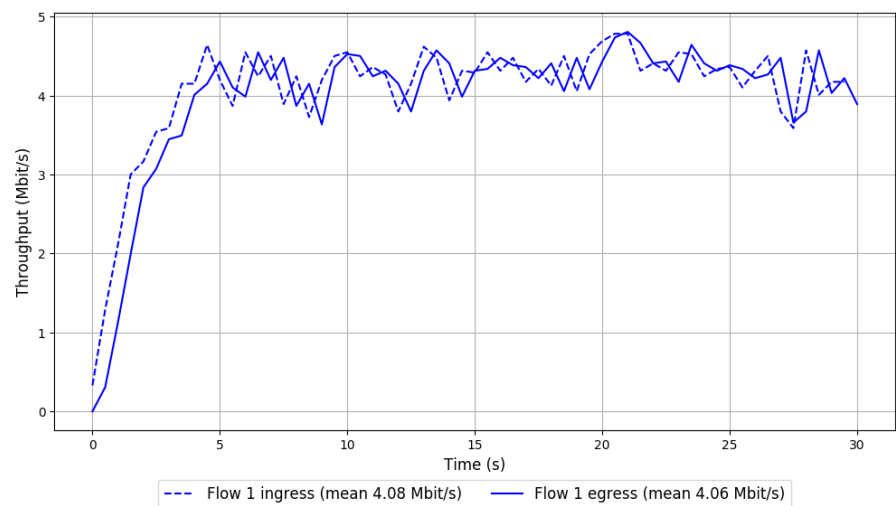
-- Flow 1:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 188.172 ms

Loss rate: 0.61%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-24 22:37:58

End at: 2018-05-24 22:38:28

Local clock offset: -5.818 ms

Remote clock offset: 2.757 ms

Below is generated by plot.py at 2018-05-25 00:00:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 185.167 ms

Loss rate: 0.65%

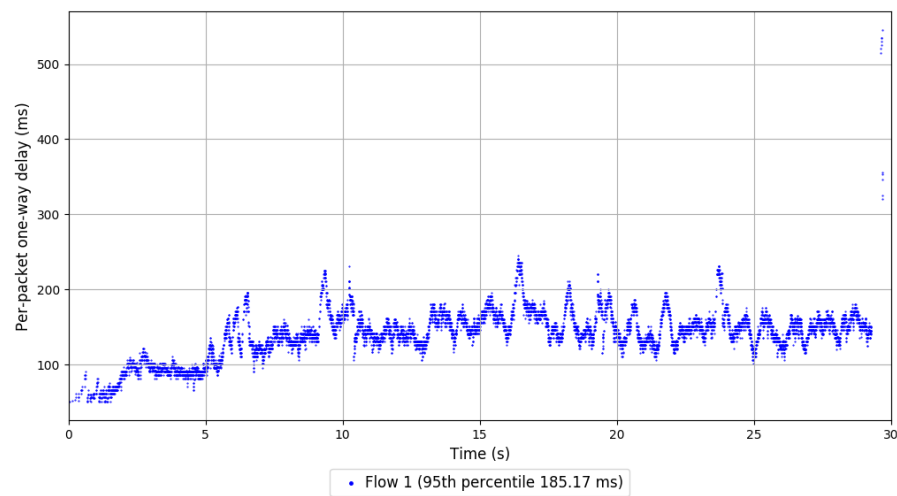
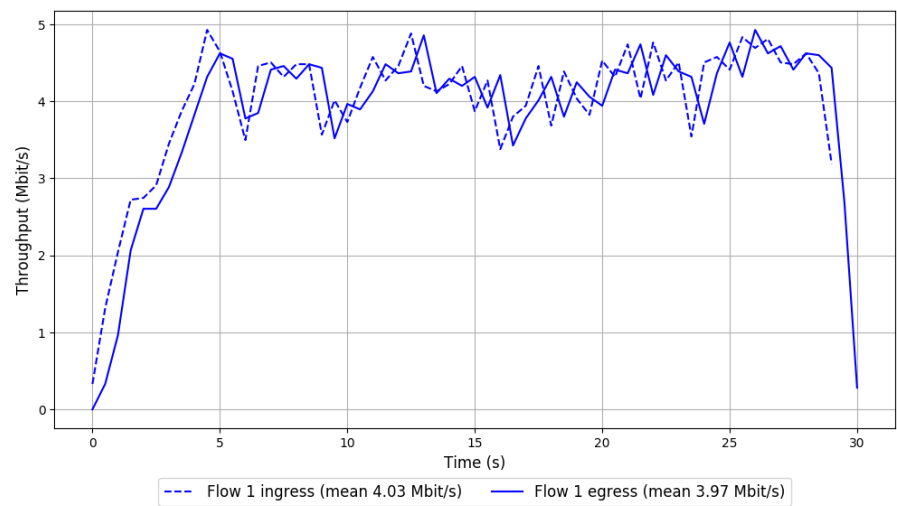
-- Flow 1:

Average throughput: 3.97 Mbit/s

95th percentile per-packet one-way delay: 185.167 ms

Loss rate: 0.65%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/ledbat_stats_1

Run 8: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/ledbat_stats_1

Run 9: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/ledbat_stats_1

Run 10: Report of LEDBAT — Data Link

Figure is missing

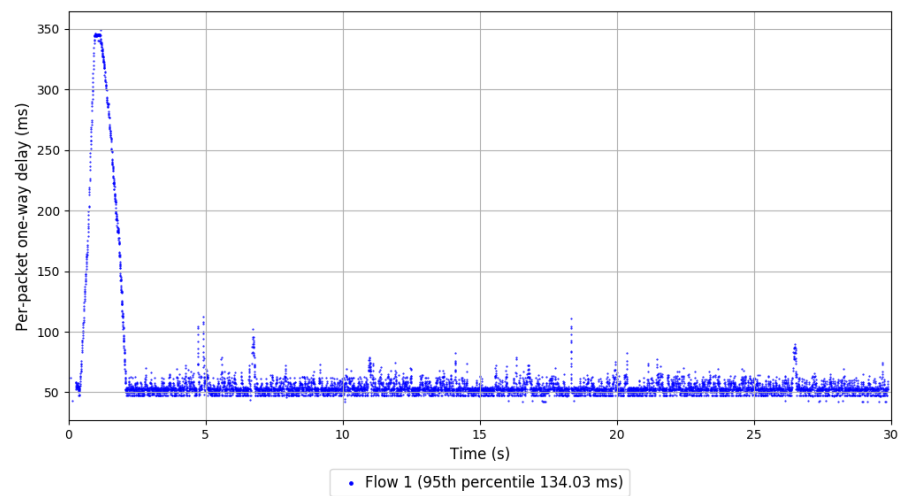
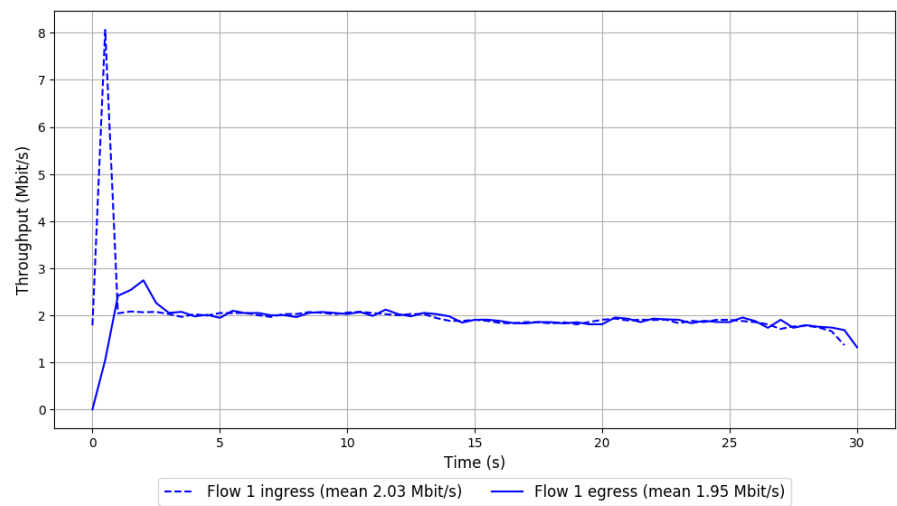
Figure is missing

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-24 21:00:37
End at: 2018-05-24 21:01:07
Local clock offset: -3.224 ms
Remote clock offset: 3.5 ms

# Below is generated by plot.py at 2018-05-25 00:00:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 134.026 ms
Loss rate: 4.13%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 134.026 ms
Loss rate: 4.13%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 21:17:55

End at: 2018-05-24 21:18:25

Local clock offset: -5.635 ms

Remote clock offset: -5.432 ms

Below is generated by plot.py at 2018-05-25 00:00:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 327.045 ms

Loss rate: 19.30%

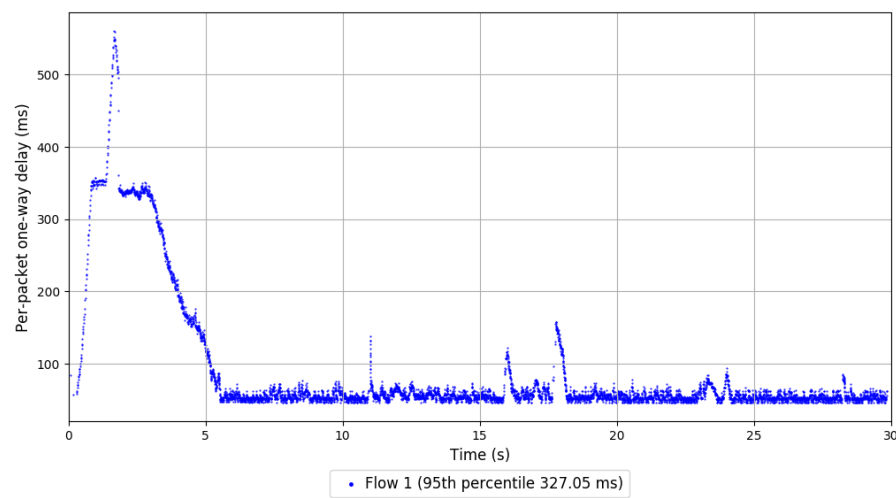
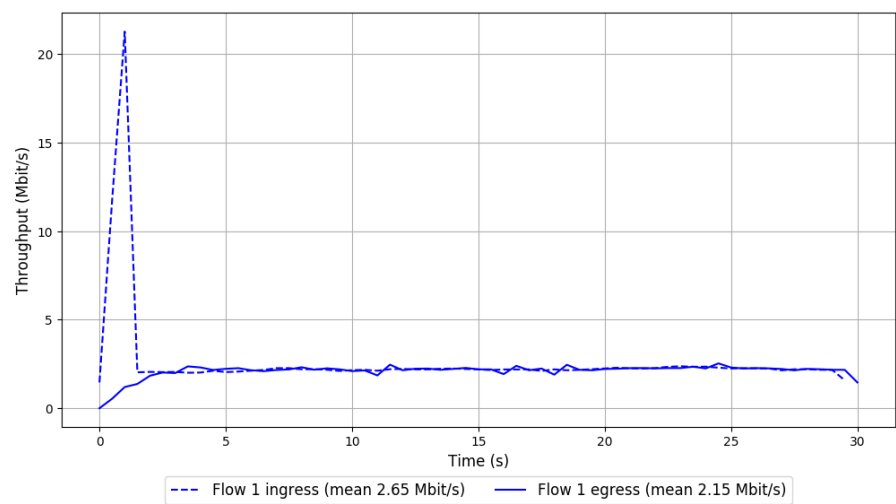
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 327.045 ms

Loss rate: 19.30%

Run 2: Report of PCC-Allegro — Data Link

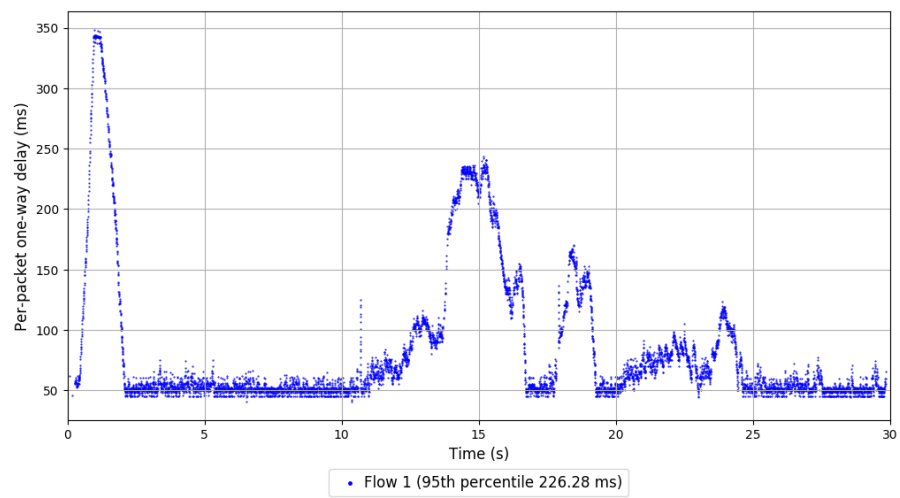
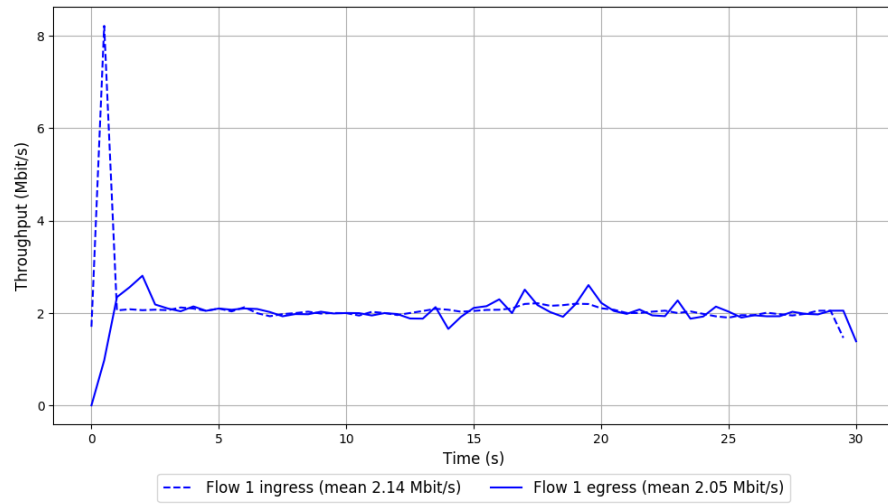


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 21:35:11
End at: 2018-05-24 21:35:41
Local clock offset: -7.039 ms
Remote clock offset: -9.923 ms

Below is generated by plot.py at 2018-05-25 00:00:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 226.277 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 226.277 ms
Loss rate: 4.15%

Run 3: Report of PCC-Allegro — Data Link

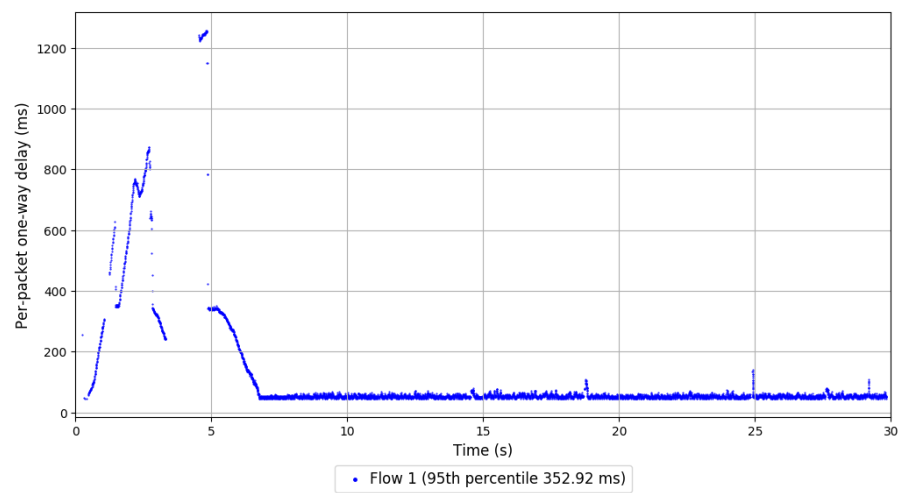
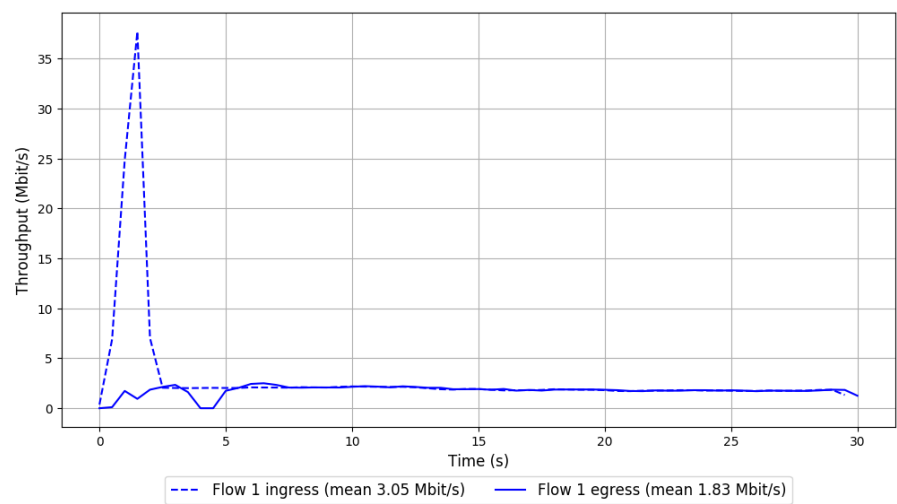


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 21:52:28
End at: 2018-05-24 21:52:58
Local clock offset: -7.788 ms
Remote clock offset: -3.901 ms

Below is generated by plot.py at 2018-05-25 00:00:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 352.916 ms
Loss rate: 40.43%
-- Flow 1:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 352.916 ms
Loss rate: 40.43%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 22:09:46

End at: 2018-05-24 22:10:16

Local clock offset: -4.758 ms

Remote clock offset: 0.295 ms

Below is generated by plot.py at 2018-05-25 00:00:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 142.215 ms

Loss rate: 4.15%

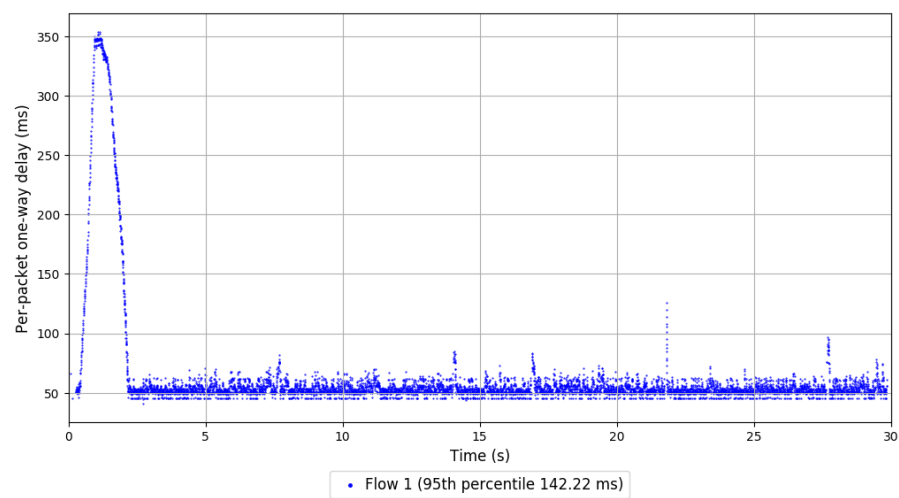
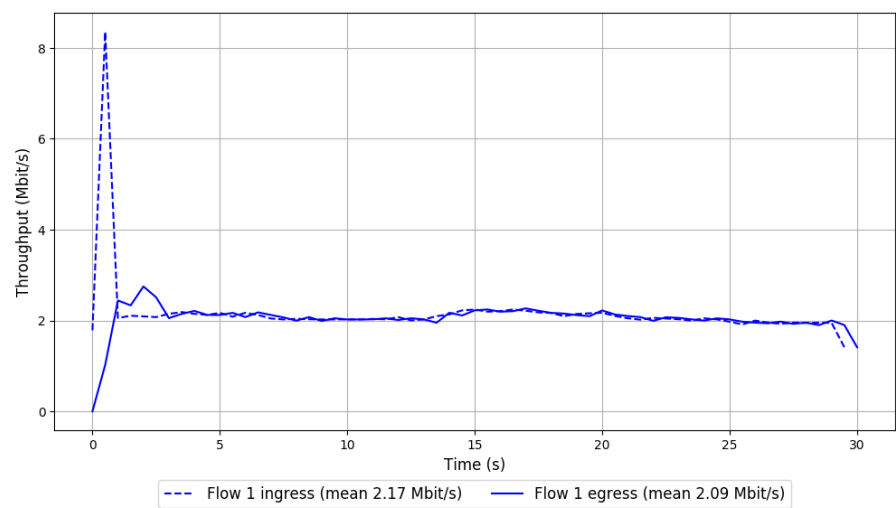
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 142.215 ms

Loss rate: 4.15%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 22:27:06

End at: 2018-05-24 22:27:36

Local clock offset: -2.445 ms

Remote clock offset: 2.117 ms

Below is generated by plot.py at 2018-05-25 00:00:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 291.428 ms

Loss rate: 7.31%

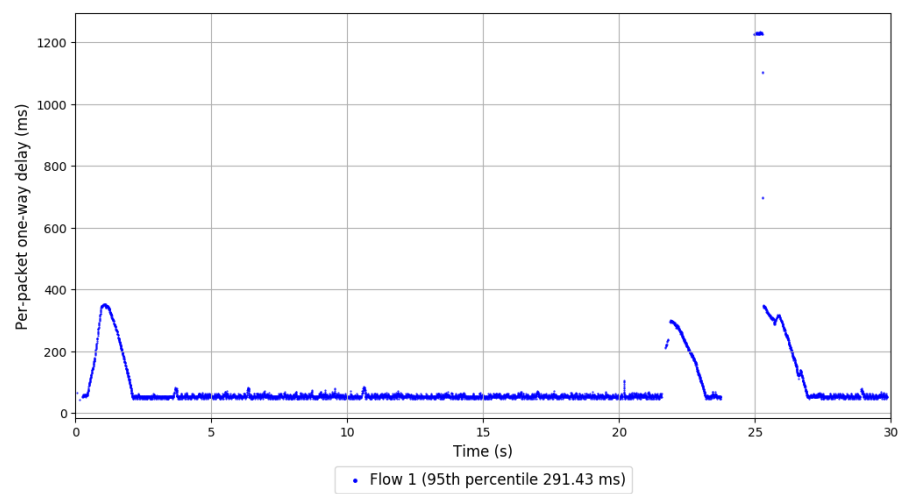
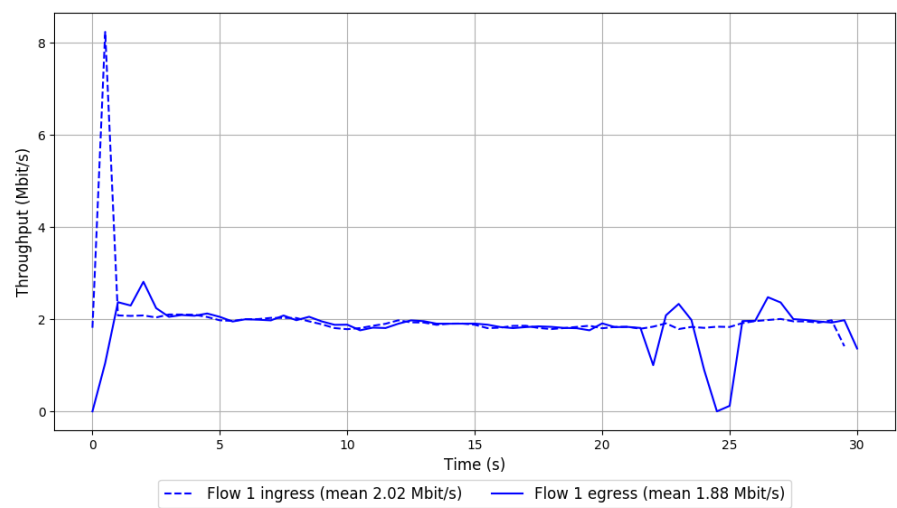
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 291.428 ms

Loss rate: 7.31%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 22:44:25

End at: 2018-05-24 22:44:55

Local clock offset: -2.763 ms

Remote clock offset: 3.509 ms

Below is generated by plot.py at 2018-05-25 00:00:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 100.337 ms

Loss rate: 3.98%

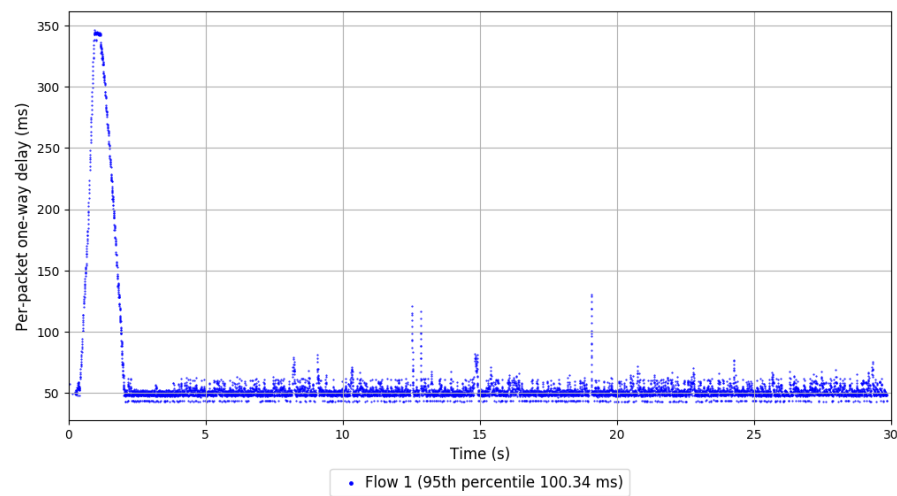
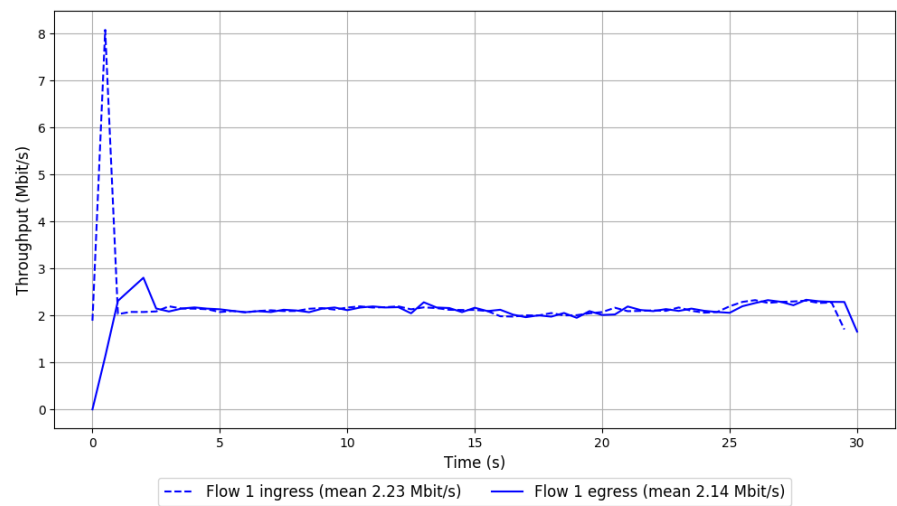
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 100.337 ms

Loss rate: 3.98%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/pcc_stats_run8

Run 8: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/pcc_stats_run5

Run 9: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/pcc_stats_run.

Run 10: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Expr

Start at: 2018-05-24 20:47:40

End at: 2018-05-24 20:48:10

Local clock offset: -3.078 ms

Remote clock offset: 1.062 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-05-24 21:04:56

End at: 2018-05-24 21:05:26

Local clock offset: -4.558 ms

Remote clock offset: 1.155 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-05-24 21:22:14

End at: 2018-05-24 21:22:44

Local clock offset: -4.435 ms

Remote clock offset: -6.64 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-05-24 21:39:31
End at: 2018-05-24 21:40:01
Local clock offset: -6.288 ms
Remote clock offset: -11.698 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-05-24 21:56:46

End at: 2018-05-24 21:57:16

Local clock offset: -4.457 ms

Remote clock offset: -3.308 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-05-24 22:14:05

End at: 2018-05-24 22:14:35

Local clock offset: -6.005 ms

Remote clock offset: 0.085 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 22:31:25

End at: 2018-05-24 22:31:55

Local clock offset: -3.636 ms

Remote clock offset: 3.249 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/pcc_experiment

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/pcc_experiment

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/pcc_experiment

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of QUIC Cubic

Start at: 2018-05-24 20:49:52

End at: 2018-05-24 20:50:22

Local clock offset: -2.855 ms

Remote clock offset: 2.847 ms

Below is generated by plot.py at 2018-05-25 00:00:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 340.965 ms

Loss rate: 3.59%

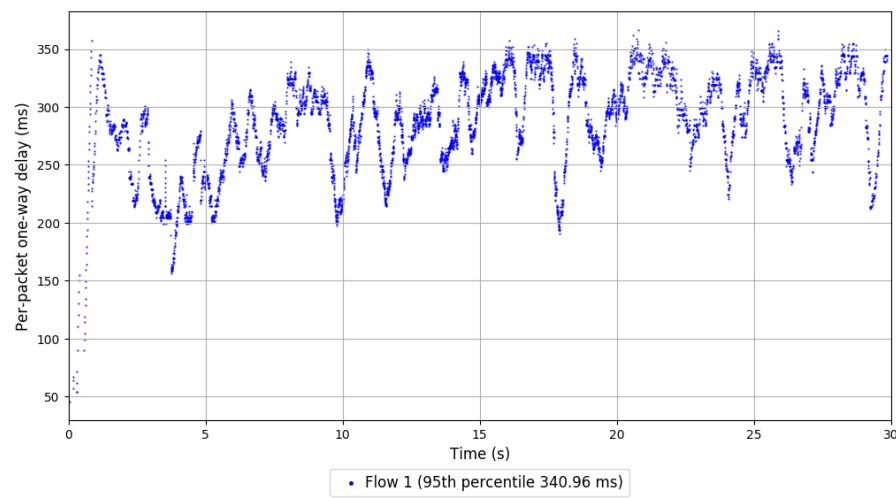
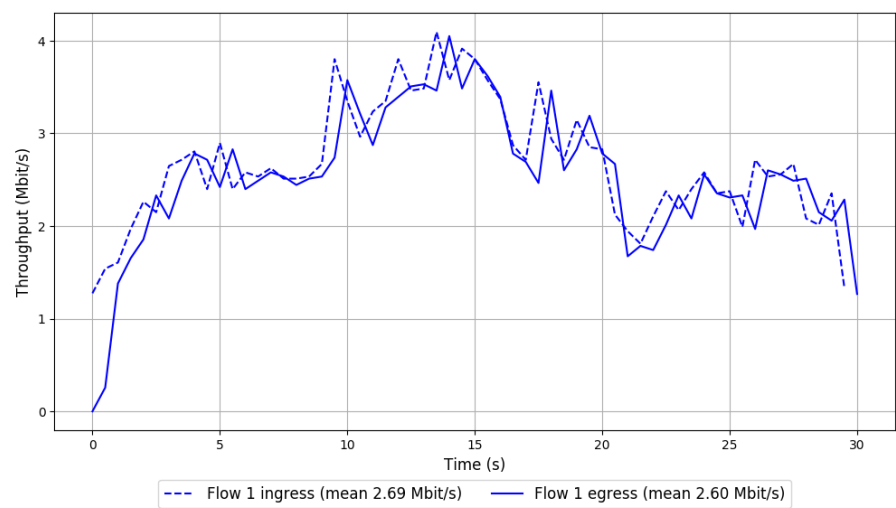
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 340.965 ms

Loss rate: 3.59%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-24 21:07:08

End at: 2018-05-24 21:07:38

Local clock offset: -4.887 ms

Remote clock offset: 1.879 ms

Below is generated by plot.py at 2018-05-25 00:00:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 340.129 ms

Loss rate: 2.51%

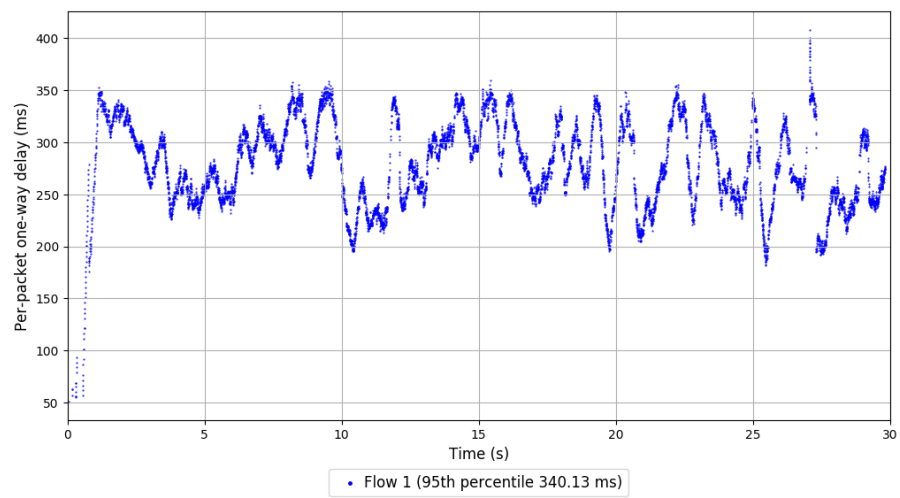
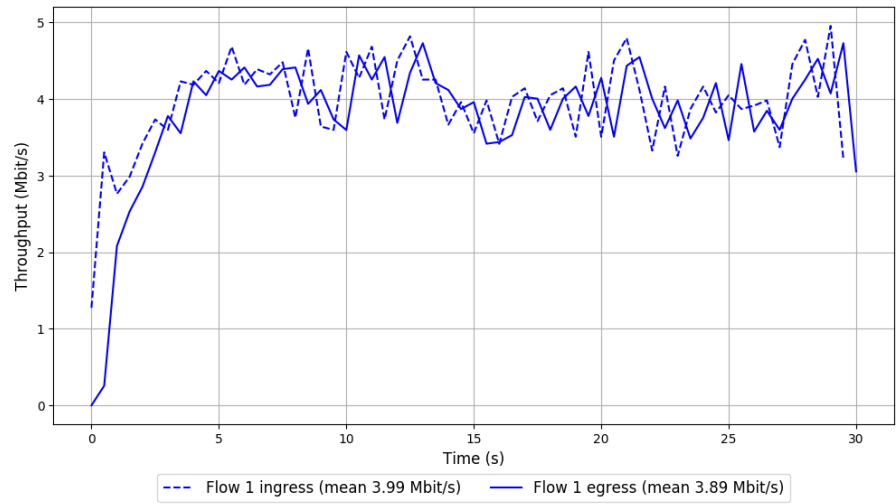
-- Flow 1:

Average throughput: 3.89 Mbit/s

95th percentile per-packet one-way delay: 340.129 ms

Loss rate: 2.51%

Run 2: Report of QUIC Cubic — Data Link

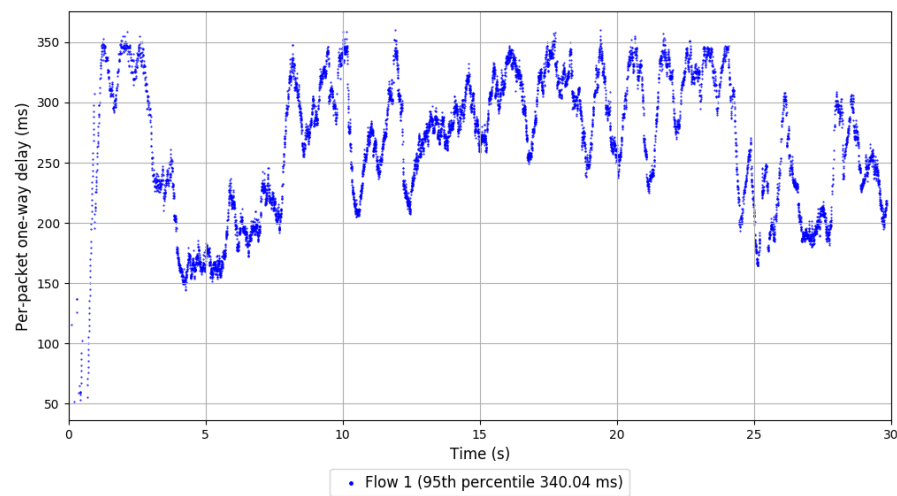
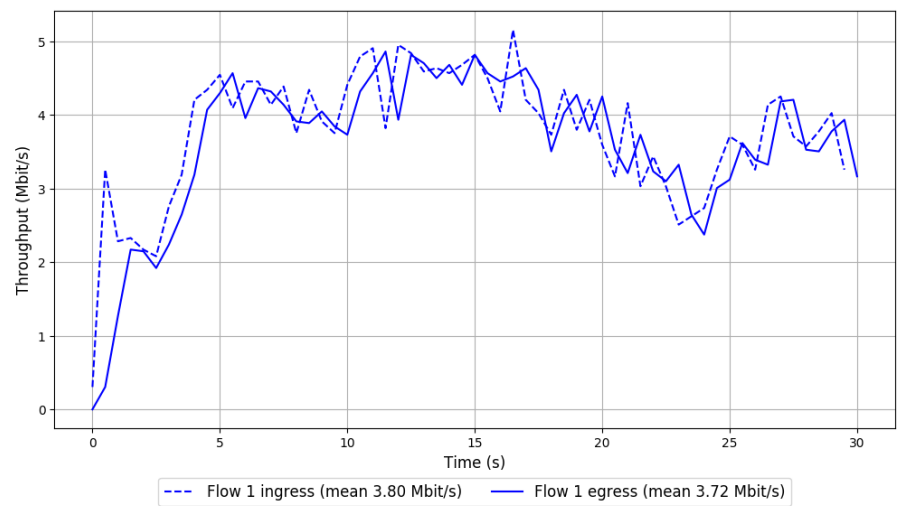


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 21:24:26
End at: 2018-05-24 21:24:56
Local clock offset: -6.497 ms
Remote clock offset: -9.681 ms

Below is generated by plot.py at 2018-05-25 00:00:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 340.037 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 340.037 ms
Loss rate: 2.52%

Run 3: Report of QUIC Cubic — Data Link

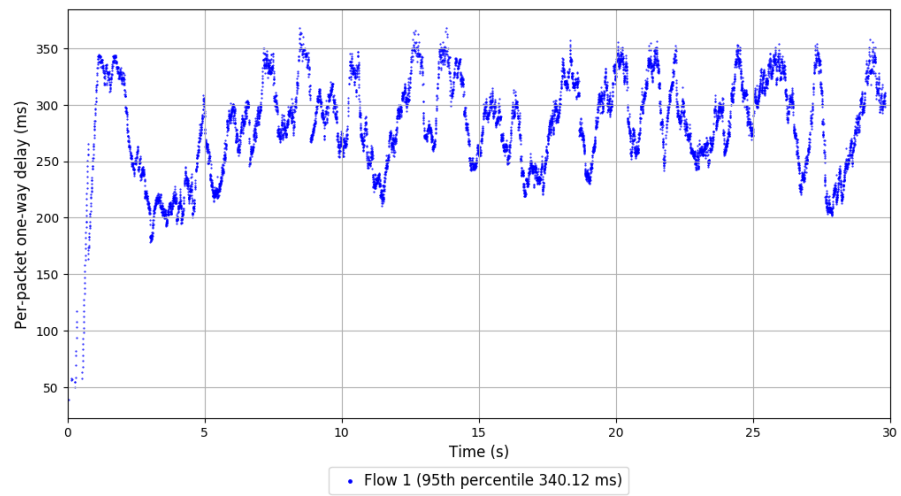
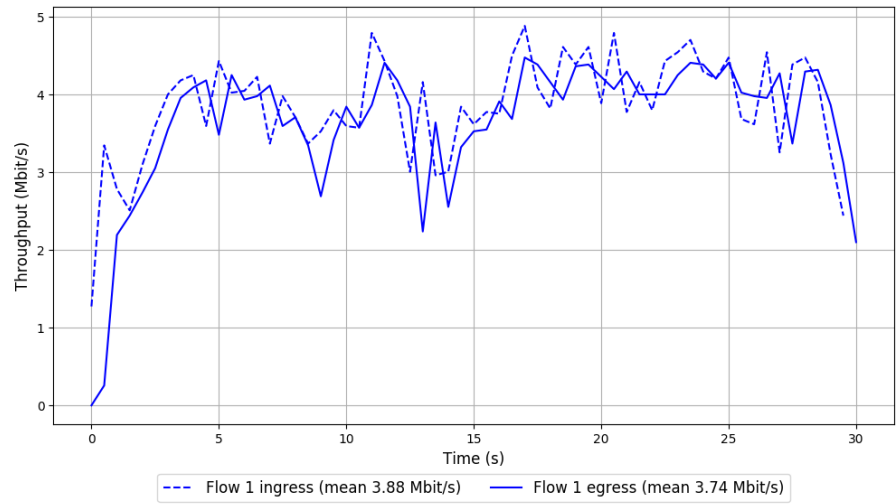


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 21:41:43
End at: 2018-05-24 21:42:13
Local clock offset: -8.002 ms
Remote clock offset: -12.122 ms

Below is generated by plot.py at 2018-05-25 00:00:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 340.119 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 340.119 ms
Loss rate: 3.89%

Run 4: Report of QUIC Cubic — Data Link

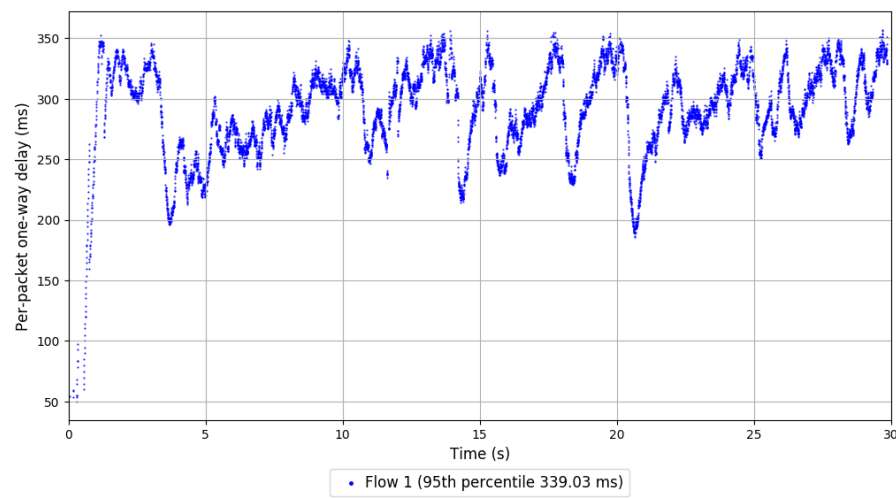
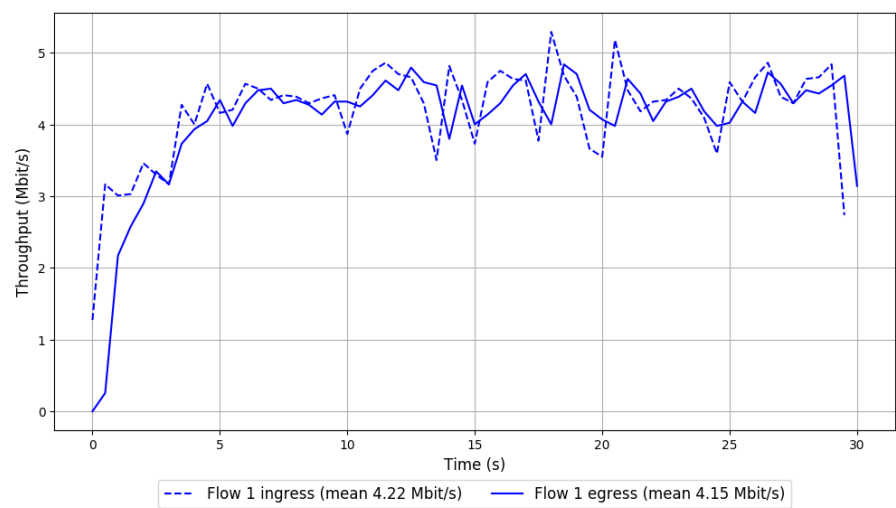


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 21:59:00
End at: 2018-05-24 21:59:30
Local clock offset: -6.482 ms
Remote clock offset: -2.667 ms

Below is generated by plot.py at 2018-05-25 00:00:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 339.034 ms
Loss rate: 1.90%
-- Flow 1:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 339.034 ms
Loss rate: 1.90%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 22:16:14

End at: 2018-05-24 22:16:44

Local clock offset: -4.701 ms

Remote clock offset: -1.7 ms

Below is generated by plot.py at 2018-05-25 00:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 342.735 ms

Loss rate: 3.49%

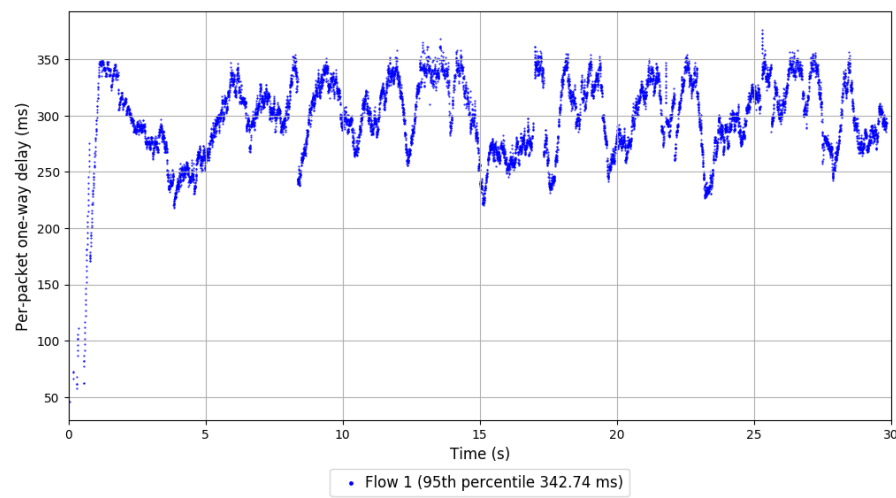
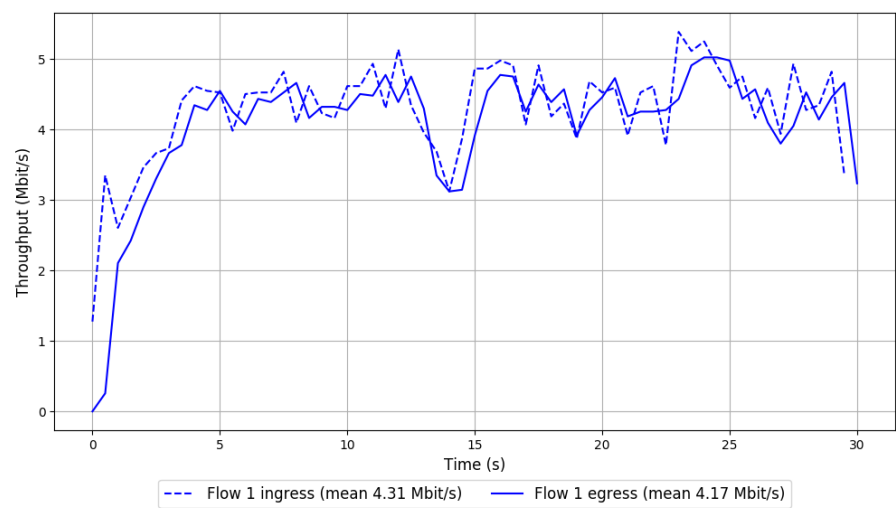
-- Flow 1:

Average throughput: 4.17 Mbit/s

95th percentile per-packet one-way delay: 342.735 ms

Loss rate: 3.49%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 22:33:34

End at: 2018-05-24 22:34:04

Local clock offset: -3.761 ms

Remote clock offset: 2.474 ms

Below is generated by plot.py at 2018-05-25 00:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 340.563 ms

Loss rate: 1.91%

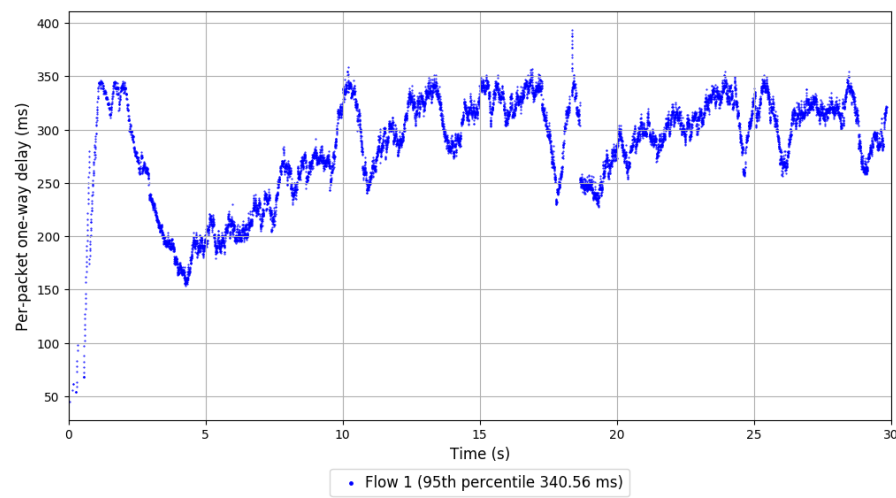
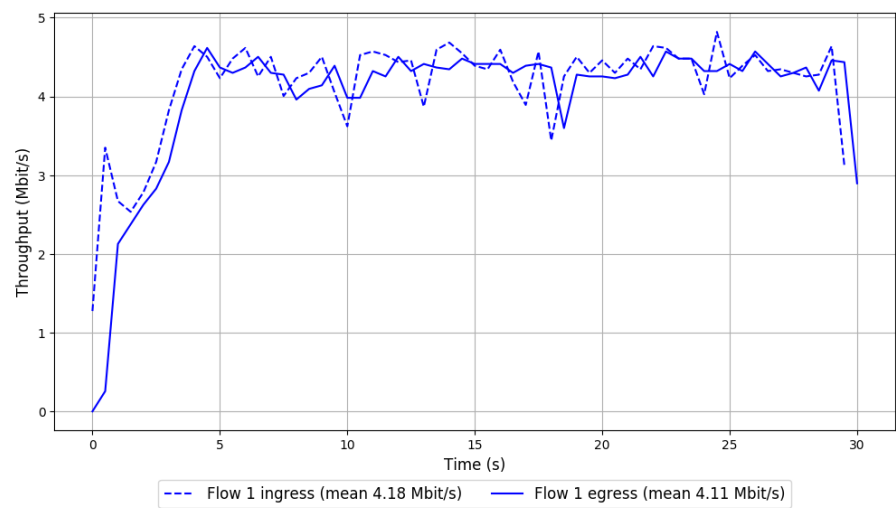
-- Flow 1:

Average throughput: 4.11 Mbit/s

95th percentile per-packet one-way delay: 340.563 ms

Loss rate: 1.91%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/quic_stats_run

Run 8: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/quic_stats_run

Run 9: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/quic_stats_run

Run 10: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of SCReAM

Start at: 2018-05-24 20:59:32

End at: 2018-05-24 21:00:02

Local clock offset: -2.413 ms

Remote clock offset: 2.669 ms

Below is generated by plot.py at 2018-05-25 00:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.851 ms

Loss rate: 0.26%

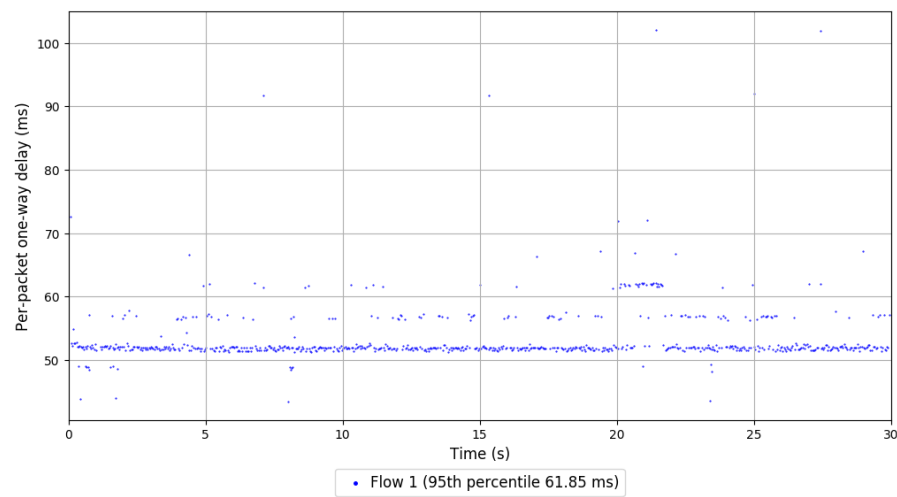
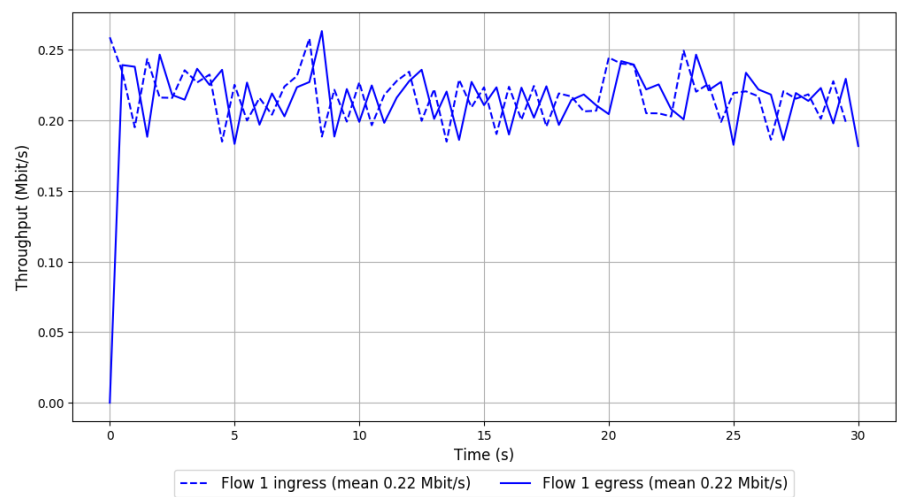
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.851 ms

Loss rate: 0.26%

Run 1: Report of SReAM — Data Link

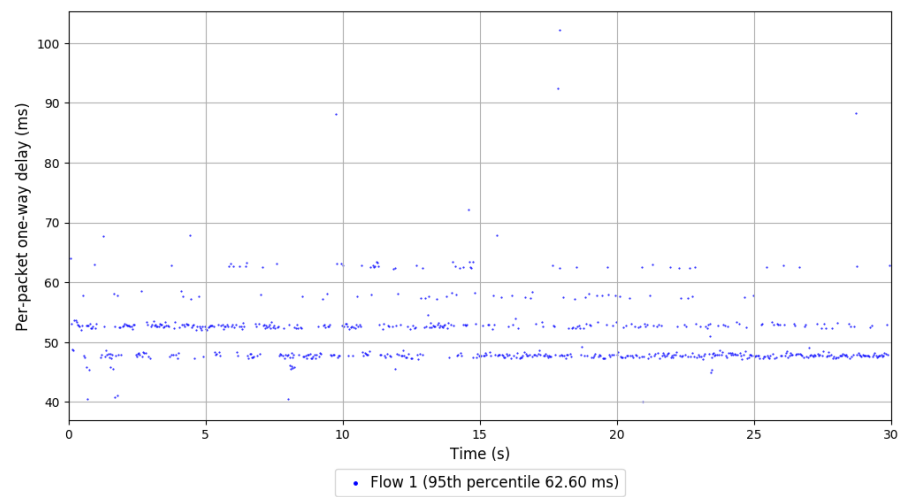
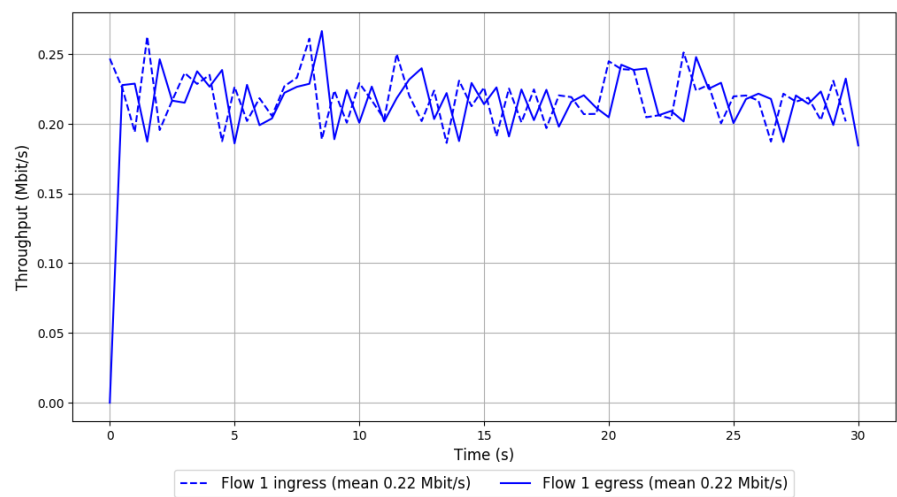


Run 2: Statistics of SCReAM

Start at: 2018-05-24 21:16:51
End at: 2018-05-24 21:17:21
Local clock offset: -5.416 ms
Remote clock offset: -4.291 ms

Below is generated by plot.py at 2018-05-25 00:00:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.598 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.598 ms
Loss rate: 0.26%

Run 2: Report of SReAM — Data Link

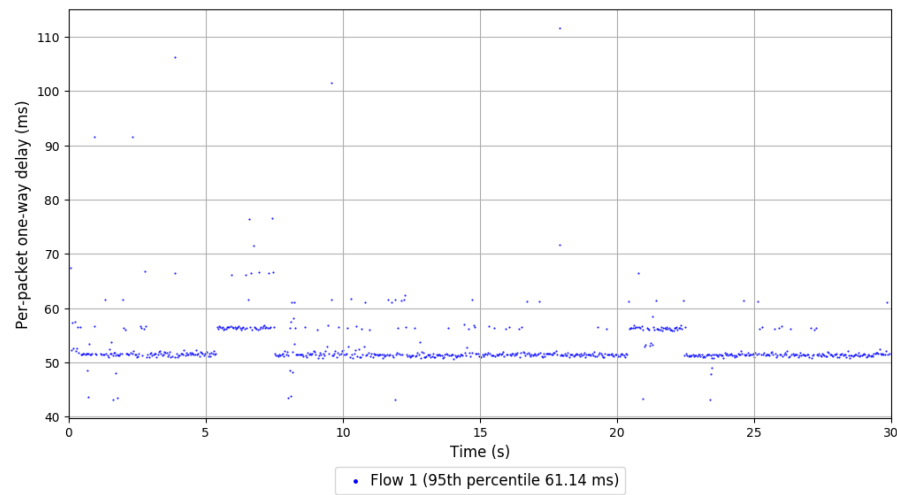
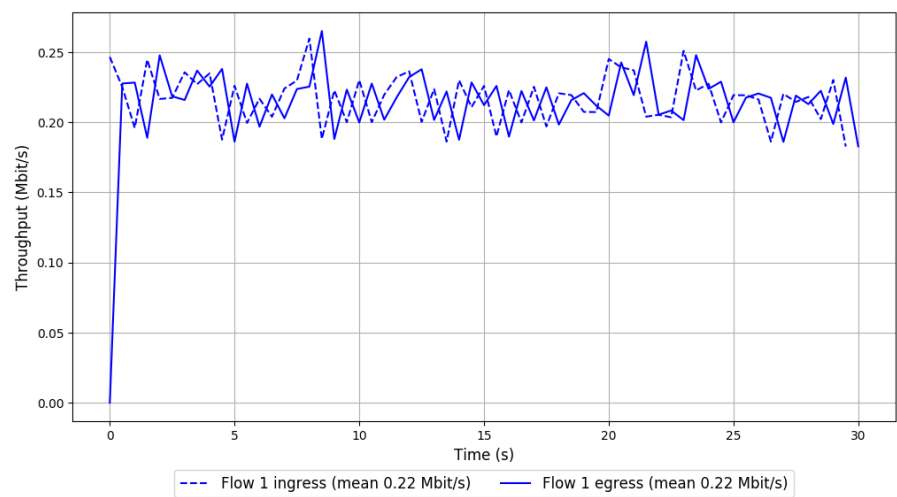


Run 3: Statistics of SCReAM

Start at: 2018-05-24 21:34:07
End at: 2018-05-24 21:34:37
Local clock offset: -4.143 ms
Remote clock offset: -10.266 ms

Below is generated by plot.py at 2018-05-25 00:00:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.139 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.139 ms
Loss rate: 0.13%

Run 3: Report of SReAM — Data Link

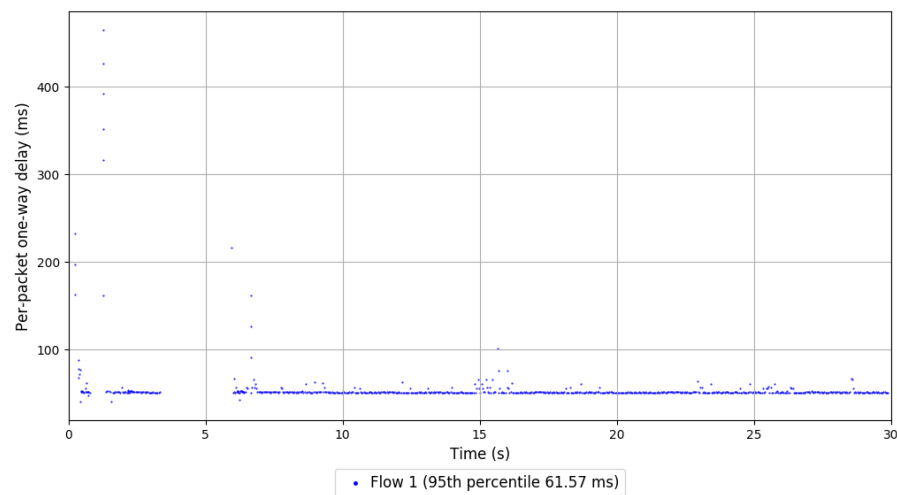
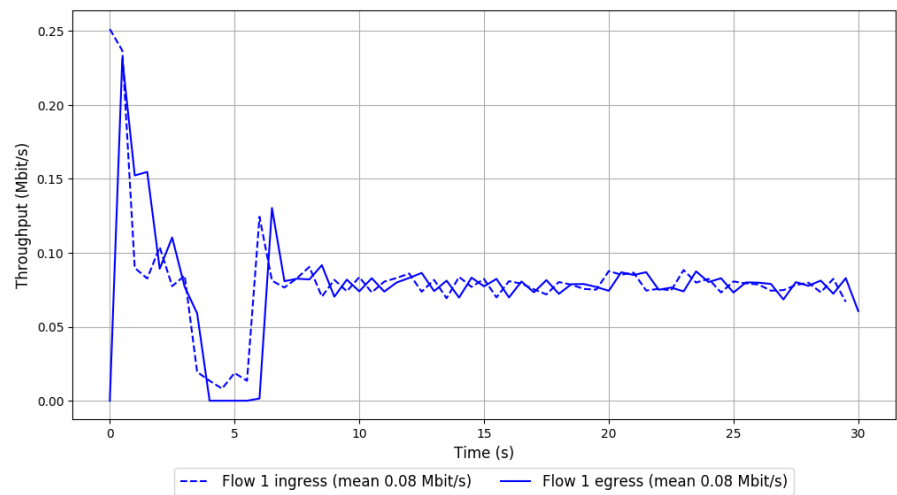


Run 4: Statistics of SCReAM

Start at: 2018-05-24 21:51:24
End at: 2018-05-24 21:51:54
Local clock offset: -5.261 ms
Remote clock offset: -4.505 ms

Below is generated by plot.py at 2018-05-25 00:00:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 61.566 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 61.566 ms
Loss rate: 2.45%

Run 4: Report of SReAM — Data Link

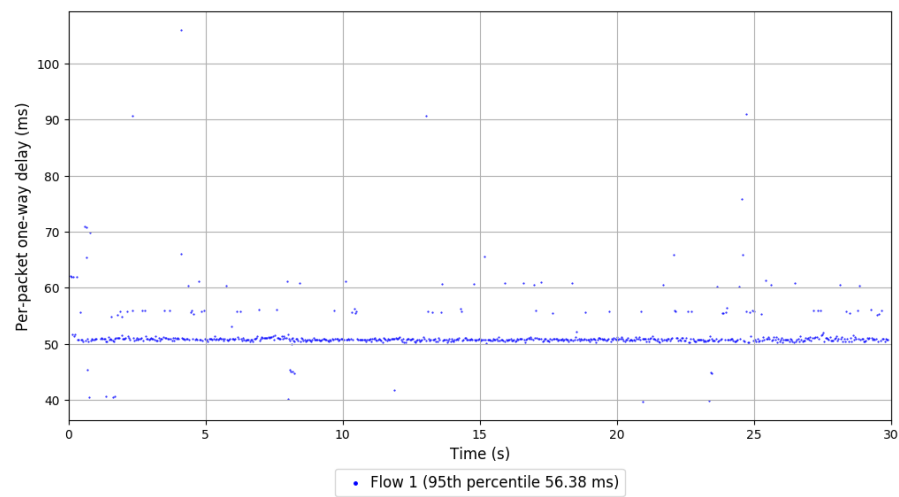
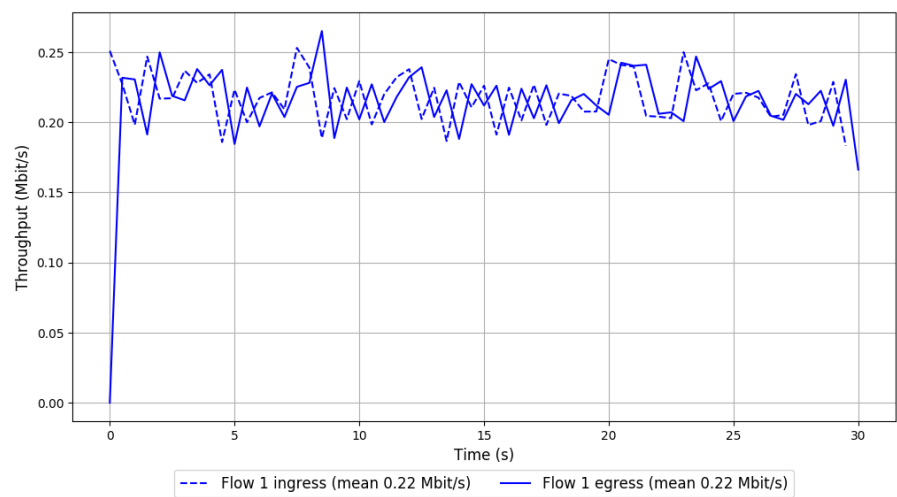


Run 5: Statistics of SCReAM

Start at: 2018-05-24 22:08:41
End at: 2018-05-24 22:09:11
Local clock offset: -5.038 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-05-25 00:00:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.376 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.376 ms
Loss rate: 0.26%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-24 22:26:02

End at: 2018-05-24 22:26:32

Local clock offset: -5.473 ms

Remote clock offset: 2.118 ms

Below is generated by plot.py at 2018-05-25 00:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.929 ms

Loss rate: 0.26%

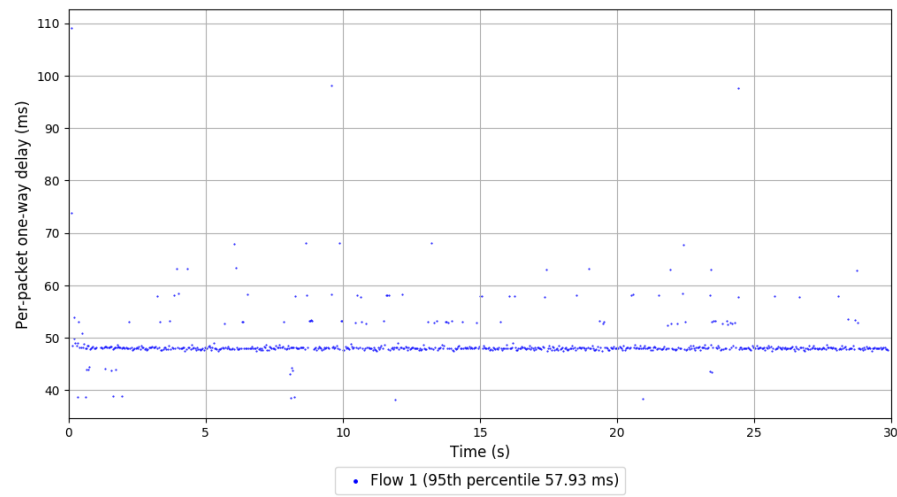
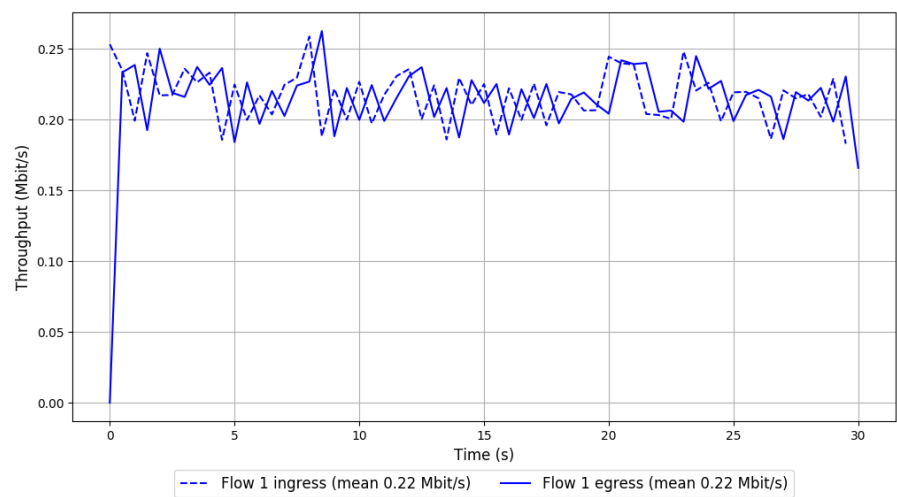
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 57.929 ms

Loss rate: 0.26%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-05-24 22:43:21

End at: 2018-05-24 22:43:51

Local clock offset: -2.632 ms

Remote clock offset: 3.343 ms

Below is generated by plot.py at 2018-05-25 00:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 58.261 ms

Loss rate: 0.26%

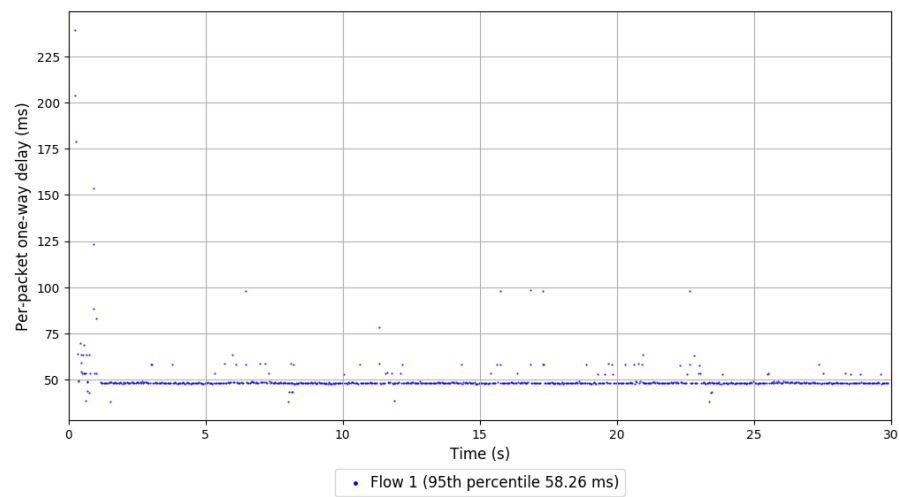
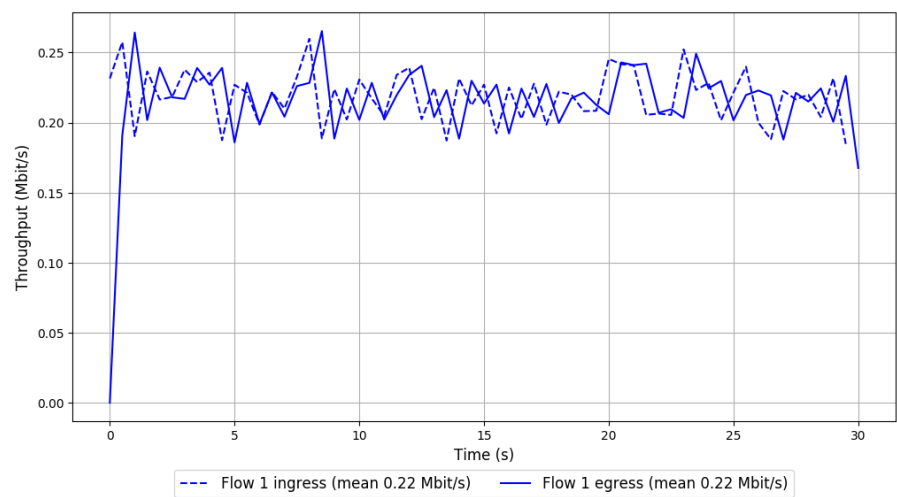
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 58.261 ms

Loss rate: 0.26%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/scream_stats_1

Run 8: Report of SReAM — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/scream_stats_1

Run 9: Report of SReAM — Data Link

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Run 10: Statistics of SReAM

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/scream_stats_1

Run 10: Report of SCReAM — Data Link

Figure is missing

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Run 1: Statistics of Sprout

Start at: 2018-05-24 20:56:19

End at: 2018-05-24 20:56:49

Local clock offset: -2.788 ms

Remote clock offset: 0.815 ms

Below is generated by plot.py at 2018-05-25 00:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 75.162 ms

Loss rate: 0.33%

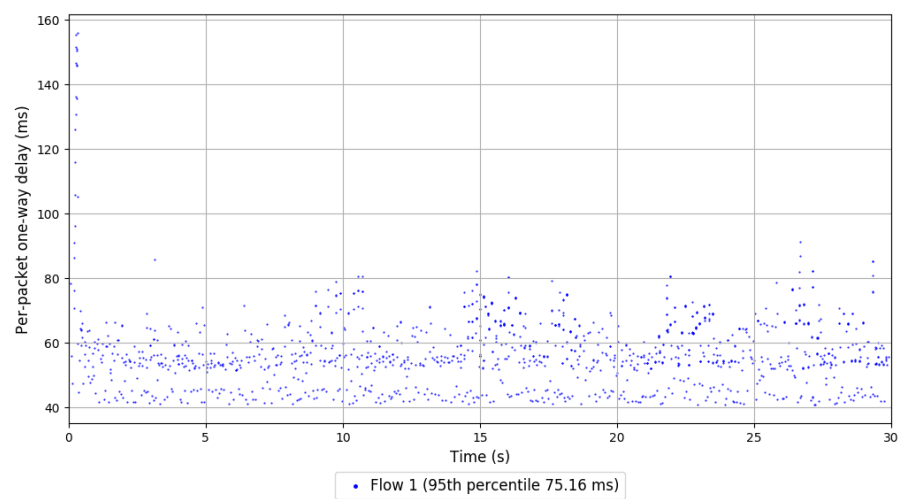
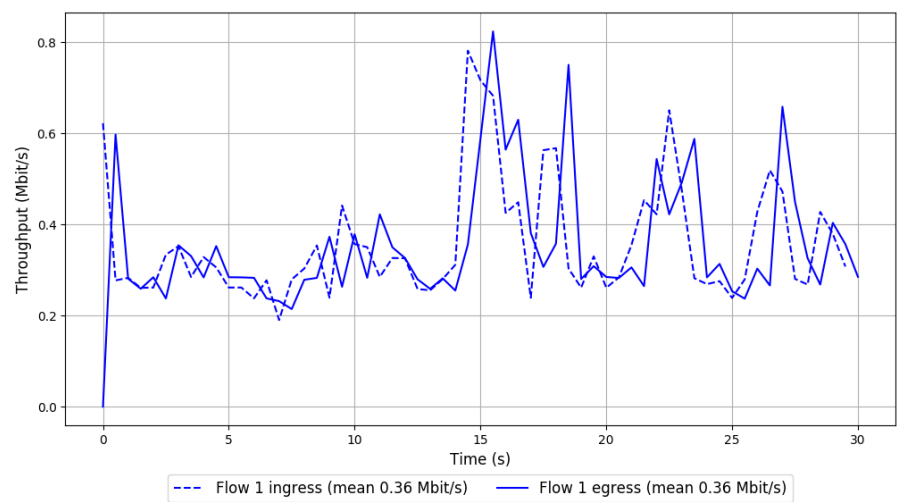
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 75.162 ms

Loss rate: 0.33%

Run 1: Report of Sprout — Data Link

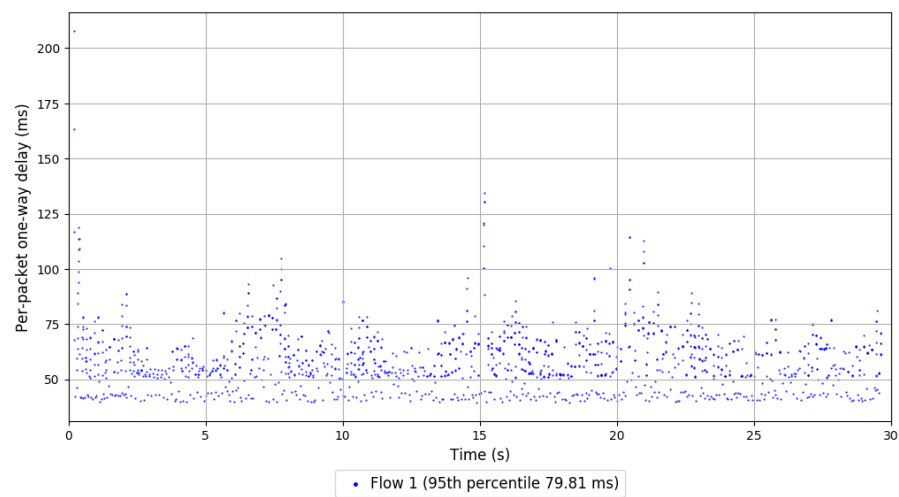
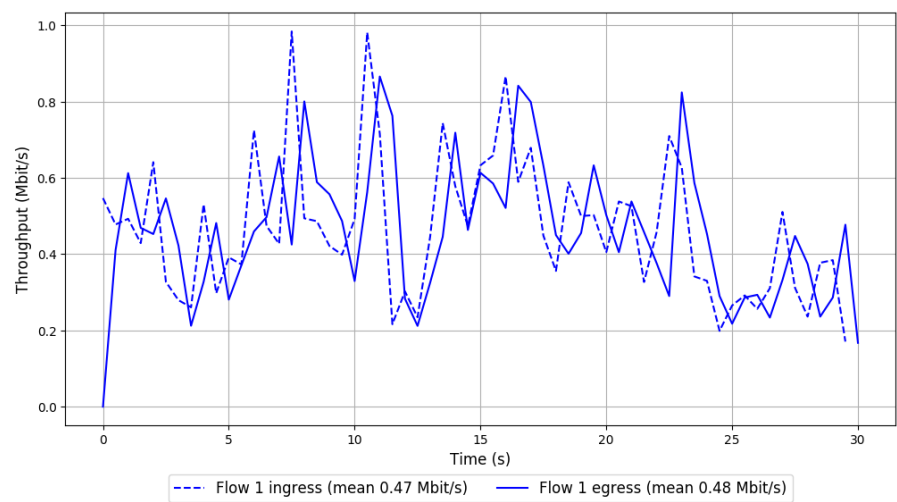


Run 2: Statistics of Sprout

Start at: 2018-05-24 21:13:36
End at: 2018-05-24 21:14:06
Local clock offset: -5.554 ms
Remote clock offset: -4.859 ms

Below is generated by plot.py at 2018-05-25 00:00:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 79.815 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 79.815 ms
Loss rate: 0.01%

Run 2: Report of Sprout — Data Link

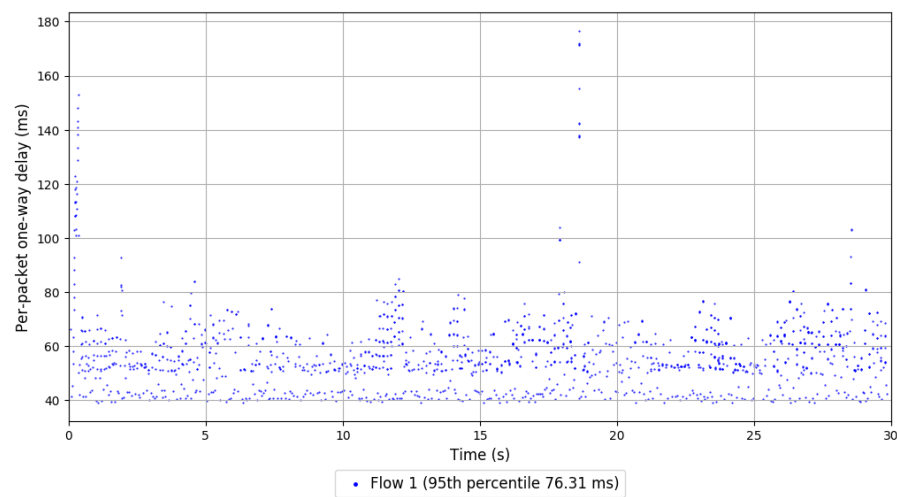
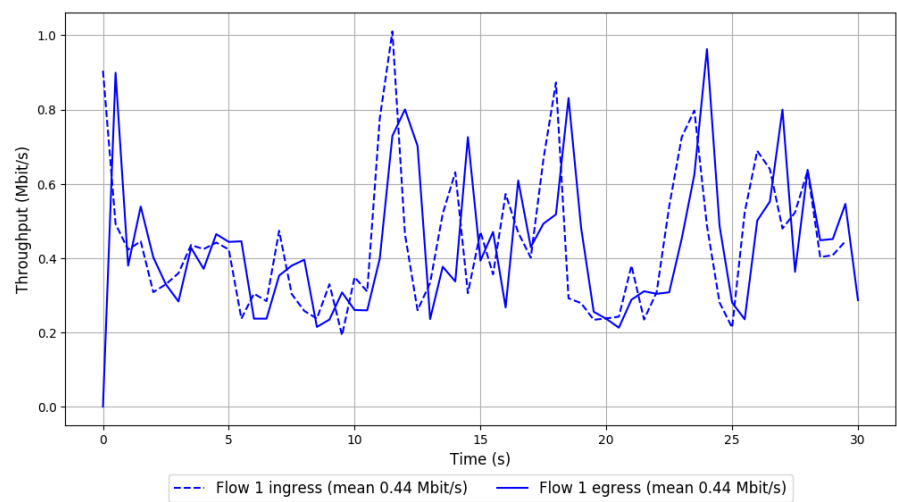


Run 3: Statistics of Sprout

Start at: 2018-05-24 21:30:53
End at: 2018-05-24 21:31:23
Local clock offset: -4.608 ms
Remote clock offset: -9.175 ms

Below is generated by plot.py at 2018-05-25 00:00:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 76.309 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 76.309 ms
Loss rate: 0.61%

Run 3: Report of Sprout — Data Link

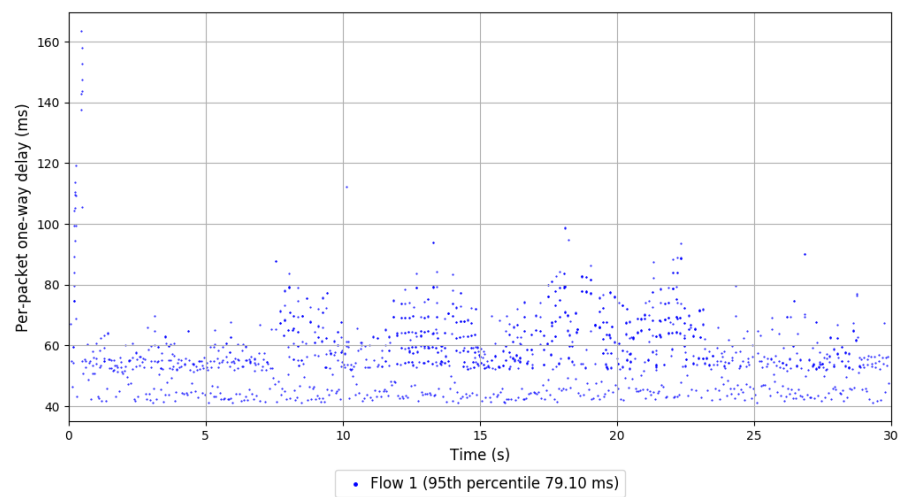
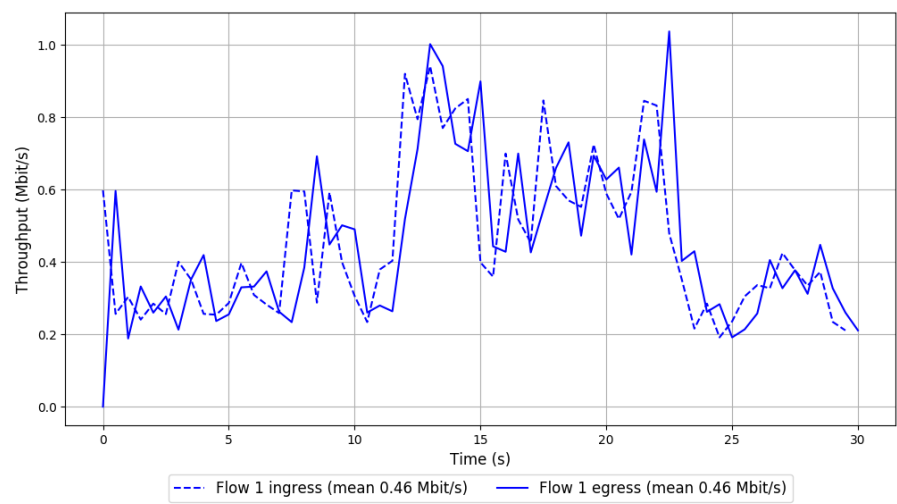


Run 4: Statistics of Sprout

Start at: 2018-05-24 21:48:10
End at: 2018-05-24 21:48:40
Local clock offset: -6.762 ms
Remote clock offset: -8.629 ms

Below is generated by plot.py at 2018-05-25 00:00:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 79.101 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 79.101 ms
Loss rate: 0.08%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-24 22:05:28

End at: 2018-05-24 22:05:58

Local clock offset: -5.495 ms

Remote clock offset: -2.35 ms

Below is generated by plot.py at 2018-05-25 00:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 178.395 ms

Loss rate: 1.23%

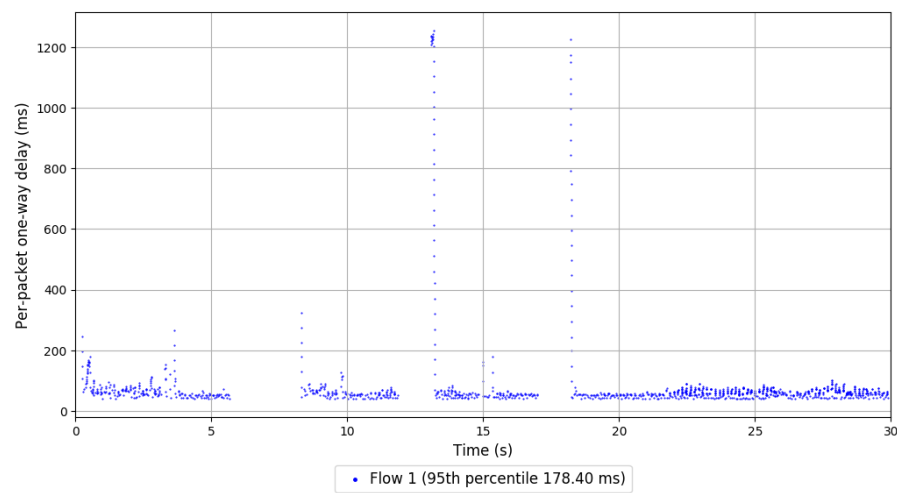
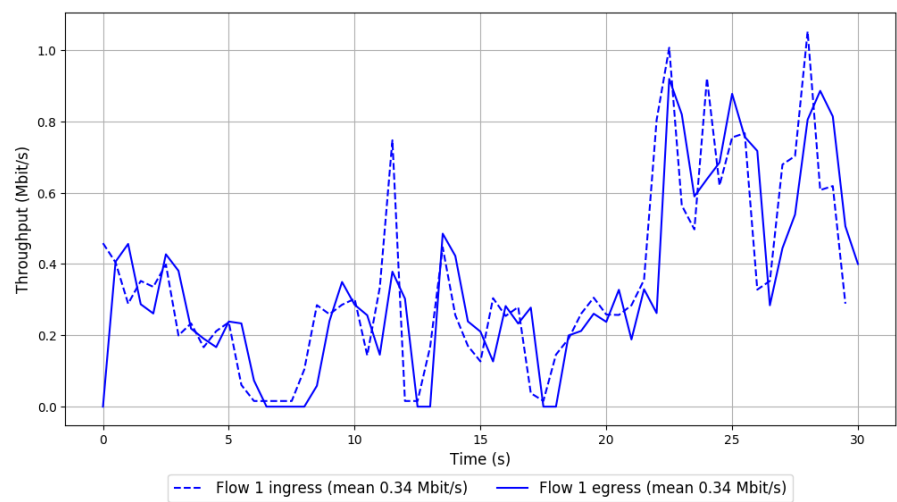
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 178.395 ms

Loss rate: 1.23%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-24 22:22:43

End at: 2018-05-24 22:23:13

Local clock offset: -5.924 ms

Remote clock offset: 1.794 ms

Below is generated by plot.py at 2018-05-25 00:00:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 76.843 ms

Loss rate: 0.26%

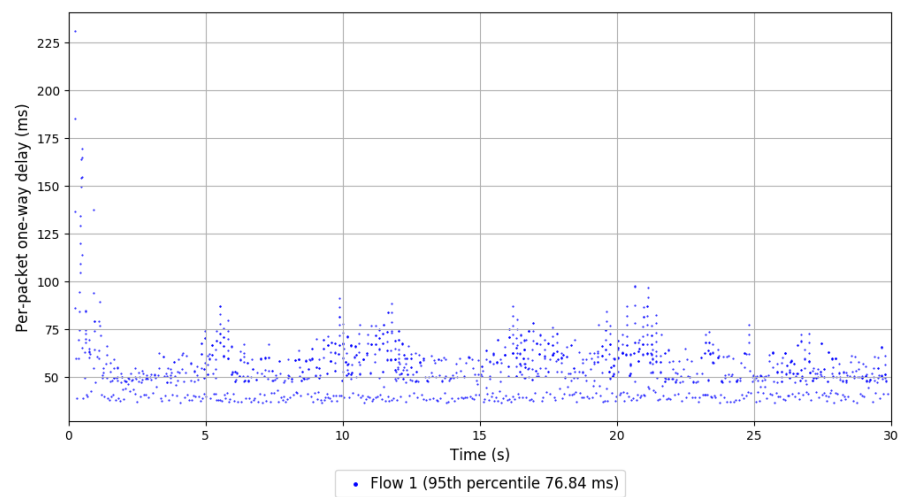
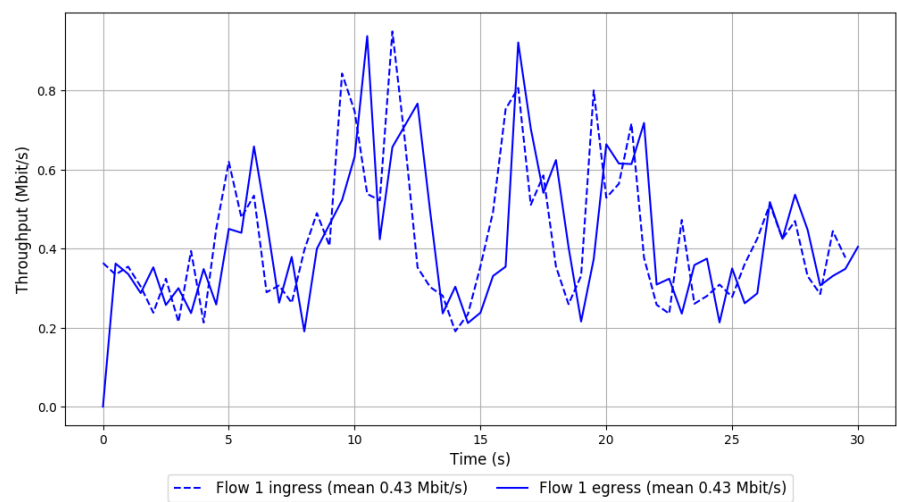
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 76.843 ms

Loss rate: 0.26%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-24 22:40:07

End at: 2018-05-24 22:40:37

Local clock offset: -4.948 ms

Remote clock offset: 3.548 ms

Below is generated by plot.py at 2018-05-25 00:00:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 76.838 ms

Loss rate: 0.15%

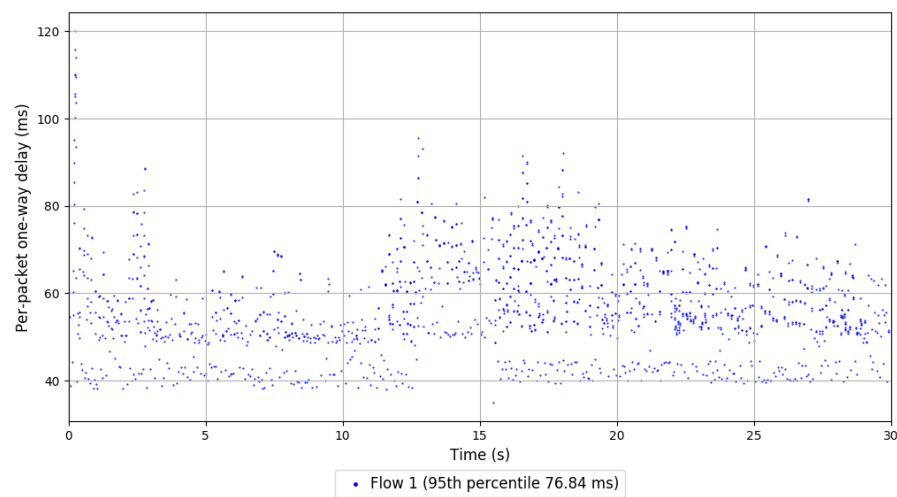
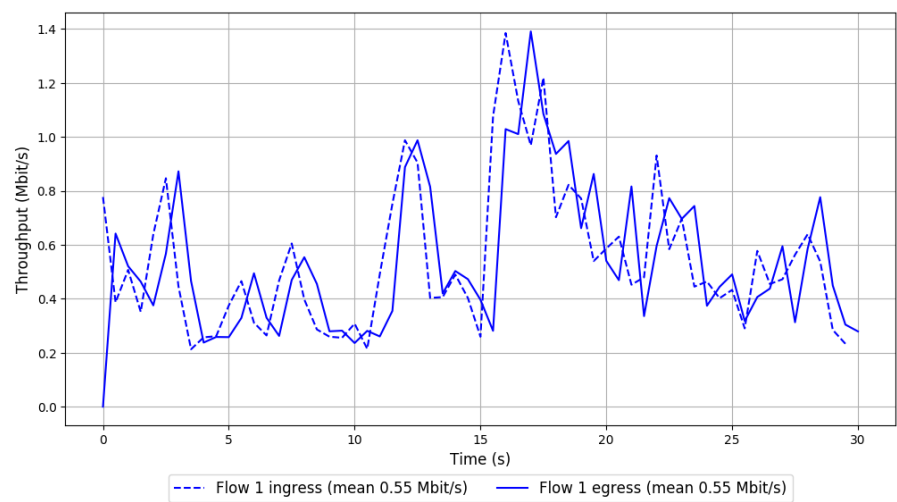
-- Flow 1:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 76.838 ms

Loss rate: 0.15%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/sprout_stats_1

Run 8: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/sprout_stats_1

Run 9: Report of Sprout — Data Link

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Figure is missing

Run 10: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/sprout_stats_1

Run 10: Report of Sprout — Data Link

Figure is missing

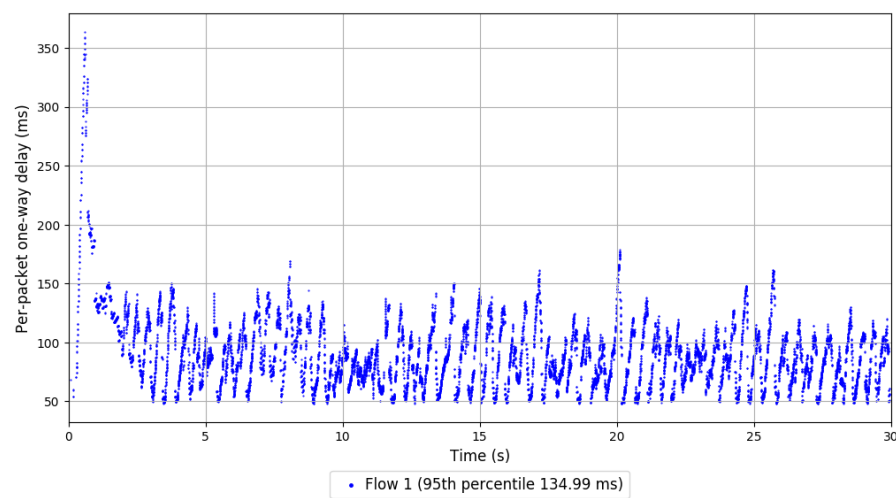
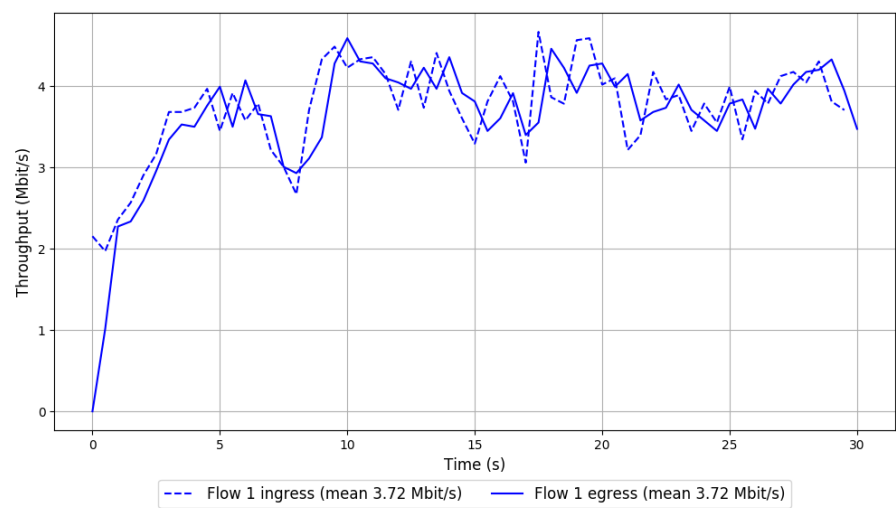
Figure is missing

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

Start at: 2018-05-24 20:53:05
End at: 2018-05-24 20:53:35
Local clock offset: -3.489 ms
Remote clock offset: 2.631 ms

# Below is generated by plot.py at 2018-05-25 00:00:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 134.989 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 134.989 ms
Loss rate: 0.43%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 21:10:22

End at: 2018-05-24 21:10:52

Local clock offset: -2.181 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-05-25 00:00:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 205.476 ms

Loss rate: 2.63%

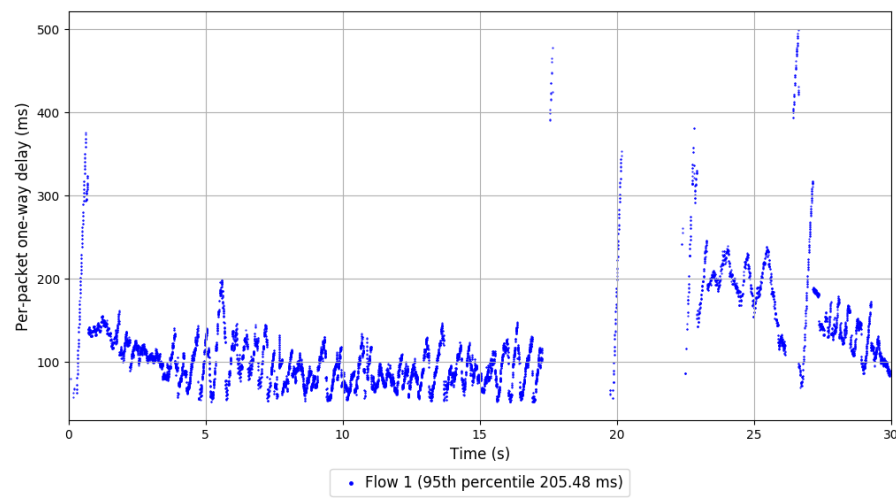
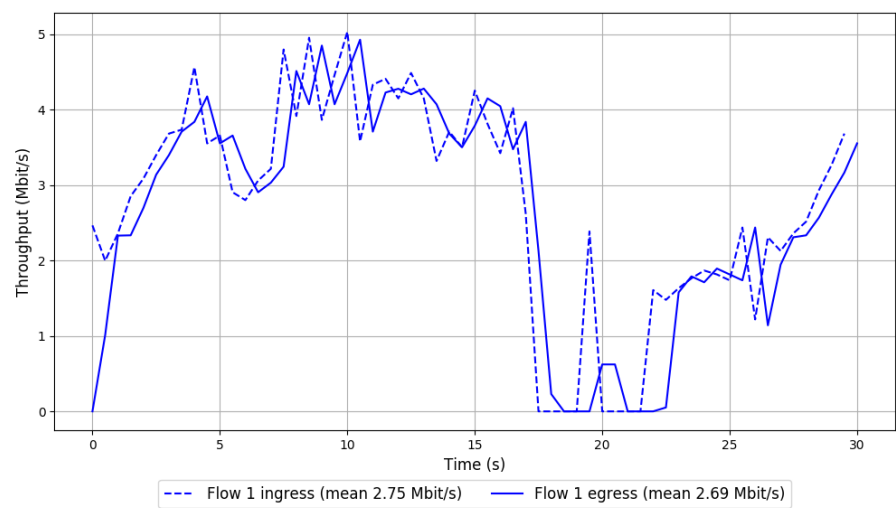
-- Flow 1:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 205.476 ms

Loss rate: 2.63%

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

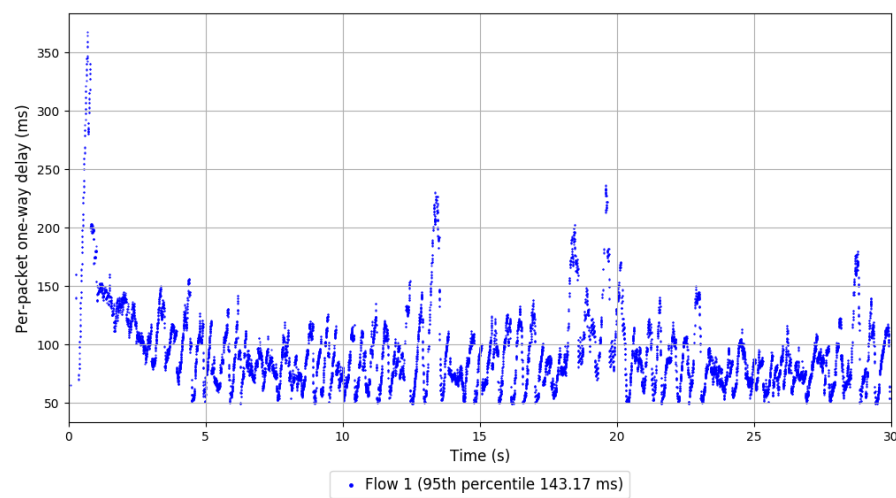
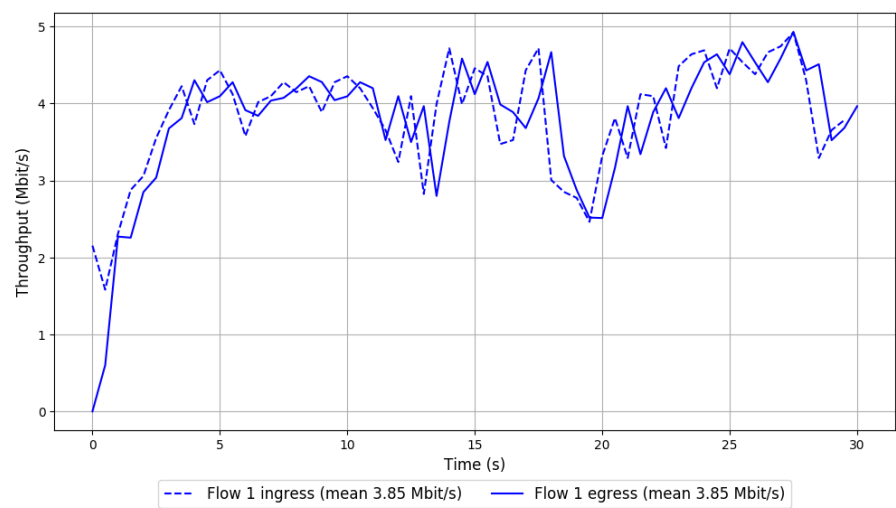


Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 21:27:39
End at: 2018-05-24 21:28:09
Local clock offset: -6.114 ms
Remote clock offset: -9.049 ms

Below is generated by plot.py at 2018-05-25 00:00:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 143.167 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 143.167 ms
Loss rate: 0.27%

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

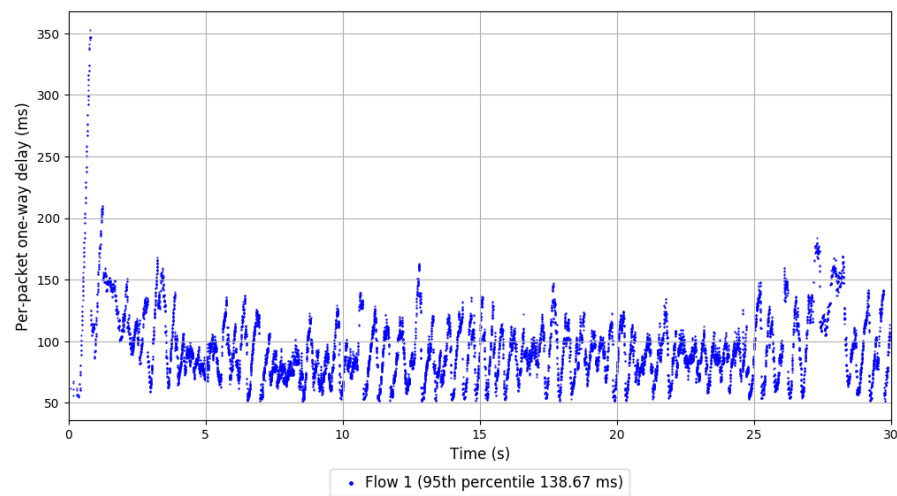
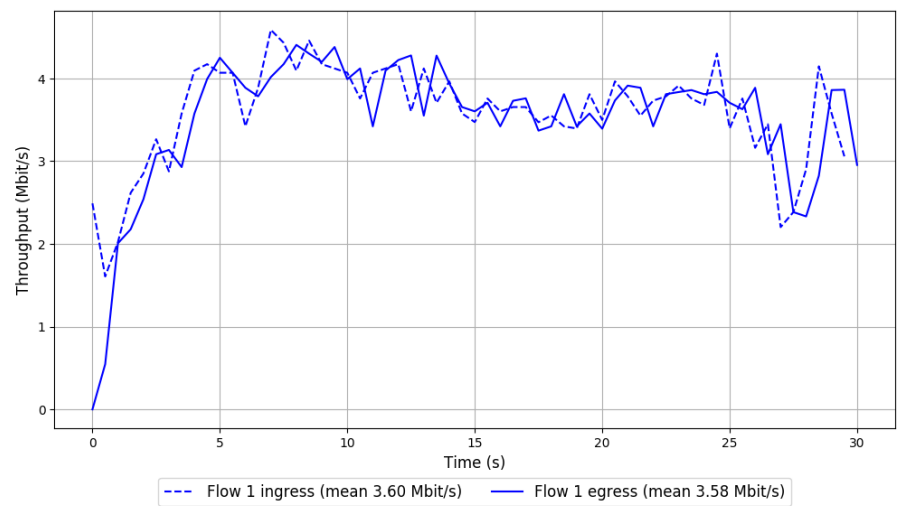


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 21:44:56
End at: 2018-05-24 21:45:26
Local clock offset: -6.52 ms
Remote clock offset: -10.193 ms

Below is generated by plot.py at 2018-05-25 00:00:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 138.671 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 138.671 ms
Loss rate: 0.71%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 22:02:14

End at: 2018-05-24 22:02:44

Local clock offset: -6.12 ms

Remote clock offset: -1.593 ms

Below is generated by plot.py at 2018-05-25 00:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 128.662 ms

Loss rate: 0.44%

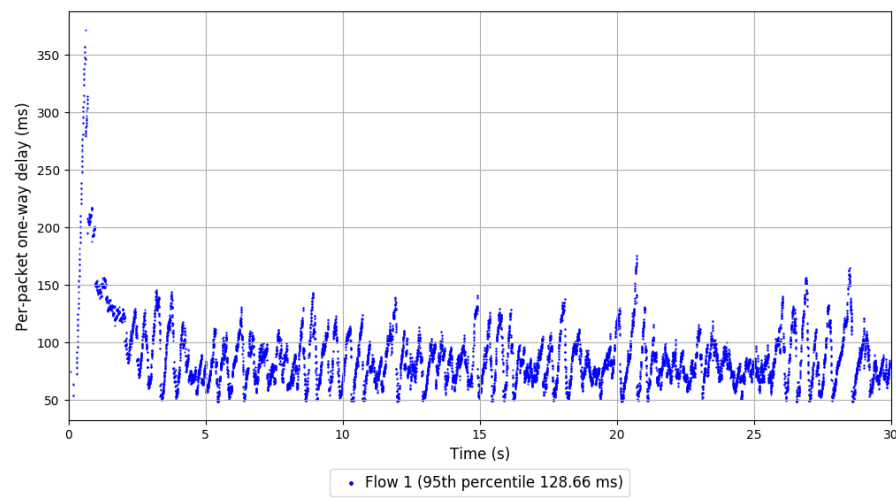
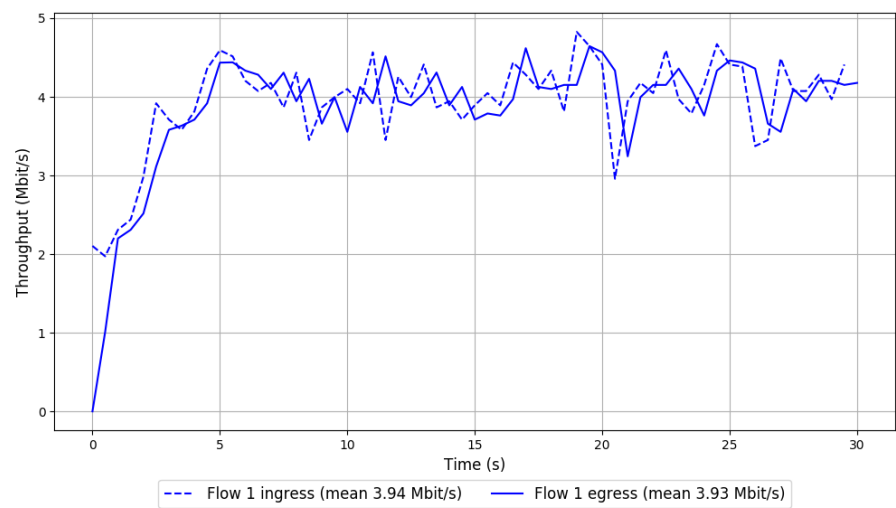
-- Flow 1:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 128.662 ms

Loss rate: 0.44%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 22:19:28

End at: 2018-05-24 22:19:58

Local clock offset: -4.216 ms

Remote clock offset: 0.774 ms

Below is generated by plot.py at 2018-05-25 00:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 121.889 ms

Loss rate: 0.47%

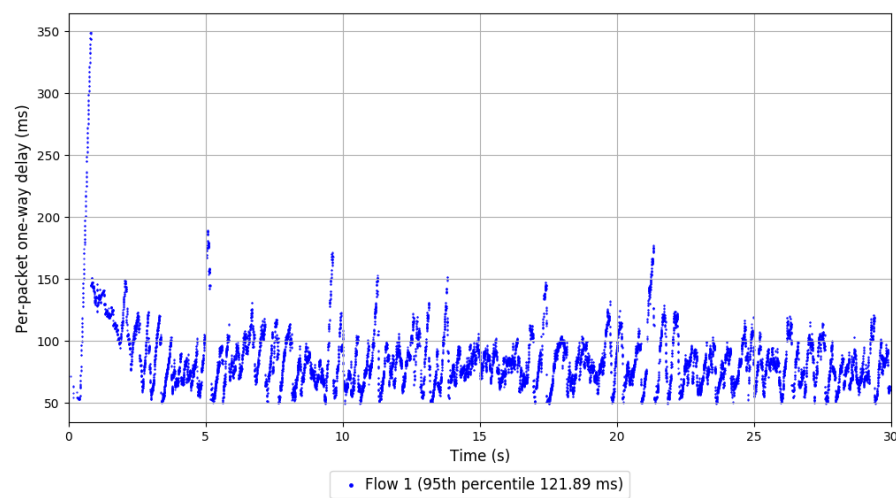
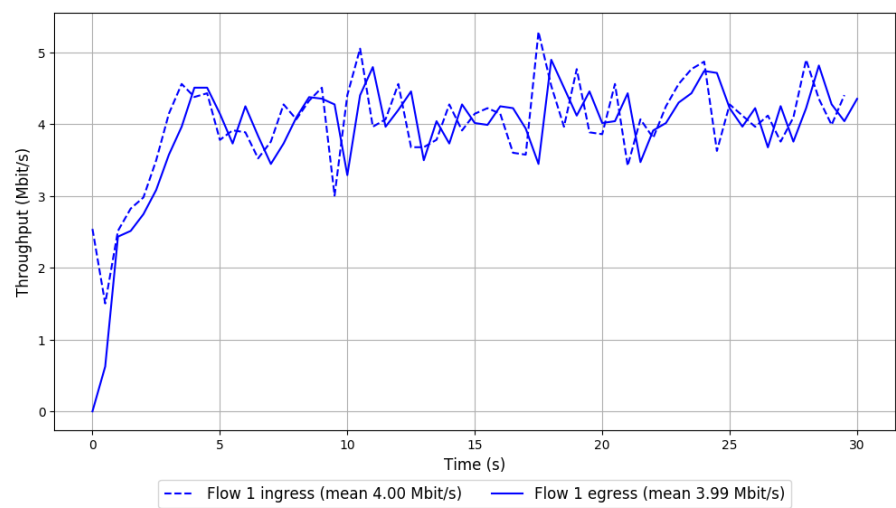
-- Flow 1:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 121.889 ms

Loss rate: 0.47%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 22:36:54

End at: 2018-05-24 22:37:24

Local clock offset: -3.134 ms

Remote clock offset: 2.516 ms

Below is generated by plot.py at 2018-05-25 00:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 187.565 ms

Loss rate: 2.43%

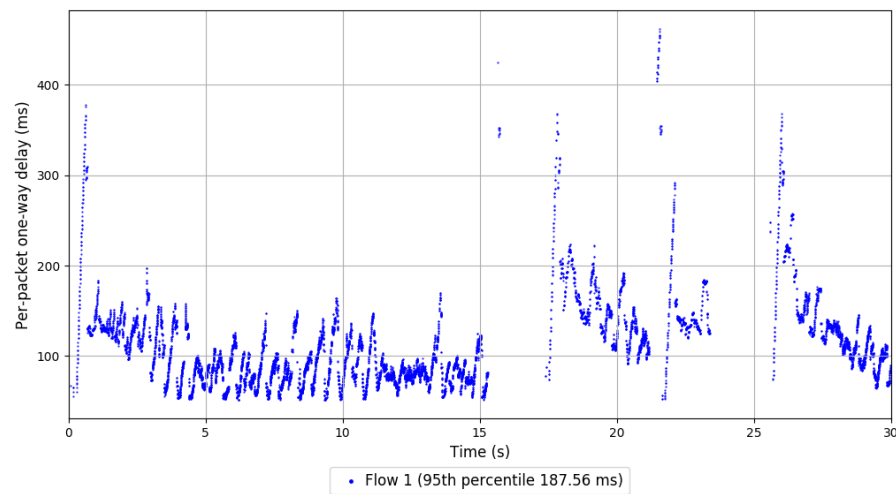
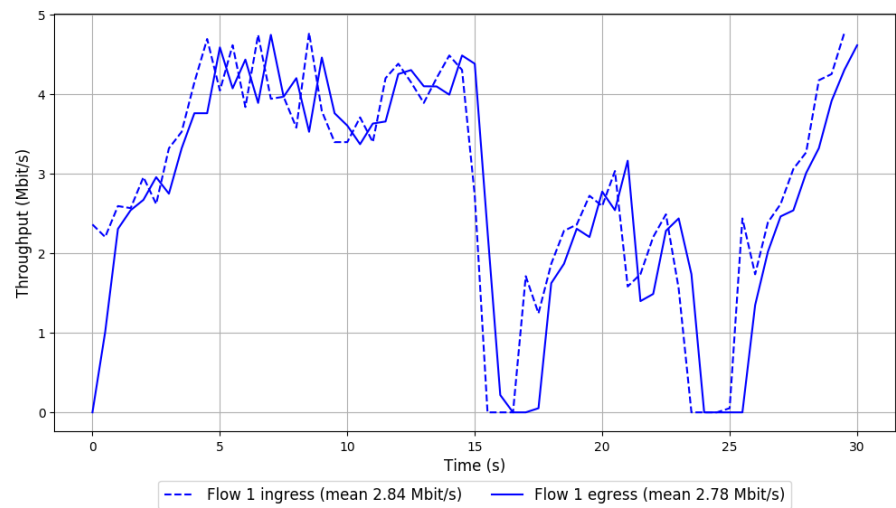
-- Flow 1:

Average throughput: 2.78 Mbit/s

95th percentile per-packet one-way delay: 187.565 ms

Loss rate: 2.43%

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



Run 8: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/taova_stats_ru

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

Figure is missing

Figure is missing

Run 9: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/taova_stats_ru

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

Figure is missing

Figure is missing

Run 10: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/taova_stats_ru

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

Figure is missing

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Run 1: Statistics of TCP Vegas

Start at: 2018-05-24 21:01:42

End at: 2018-05-24 21:02:12

Local clock offset: -3.508 ms

Remote clock offset: 3.76 ms

Below is generated by plot.py at 2018-05-25 00:01:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 96.519 ms

Loss rate: 0.25%

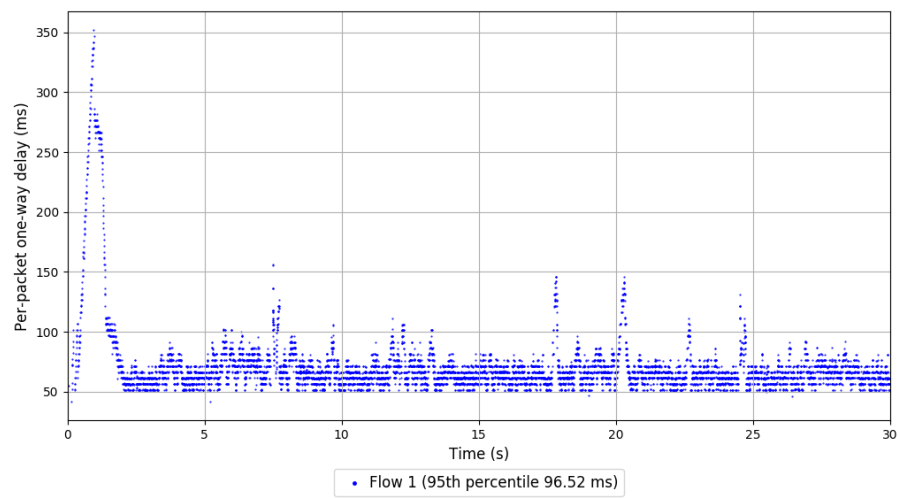
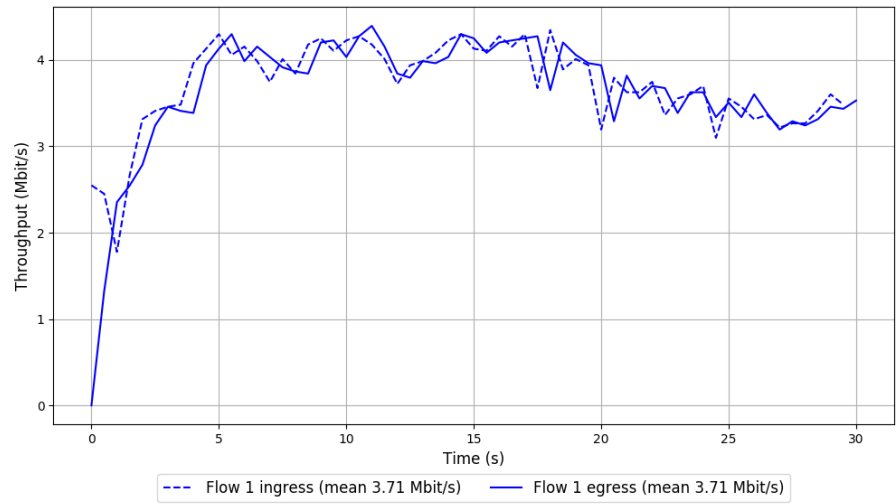
-- Flow 1:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 96.519 ms

Loss rate: 0.25%

Run 1: Report of TCP Vegas — Data Link

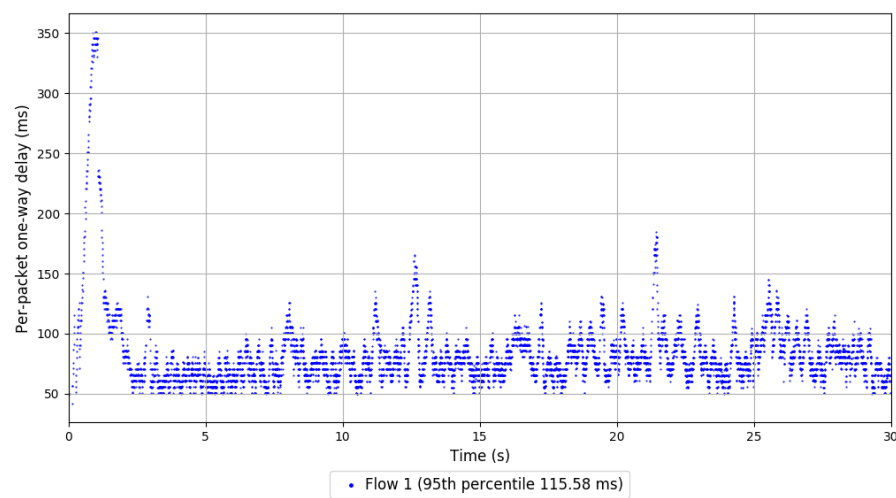
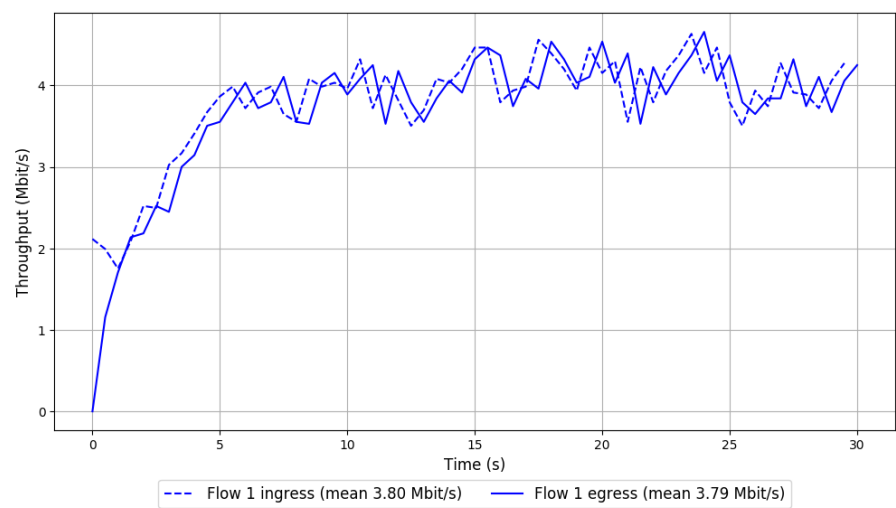


Run 2: Statistics of TCP Vegas

Start at: 2018-05-24 21:19:00
End at: 2018-05-24 21:19:30
Local clock offset: -6.079 ms
Remote clock offset: -5.743 ms

Below is generated by plot.py at 2018-05-25 00:01:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 115.582 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 115.582 ms
Loss rate: 0.45%

Run 2: Report of TCP Vegas — Data Link

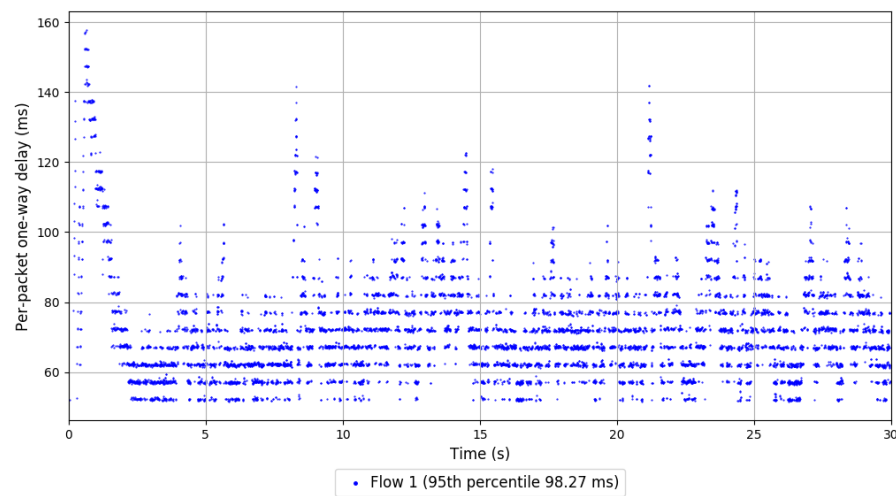
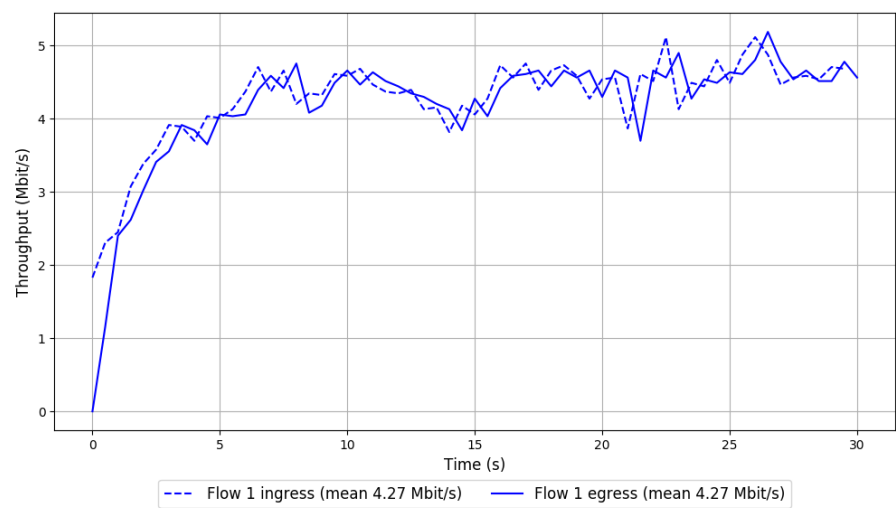


Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 21:36:16
End at: 2018-05-24 21:36:46
Local clock offset: -6.229 ms
Remote clock offset: -11.622 ms

Below is generated by plot.py at 2018-05-25 00:01:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 98.267 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 98.267 ms
Loss rate: 0.28%

Run 3: Report of TCP Vegas — Data Link

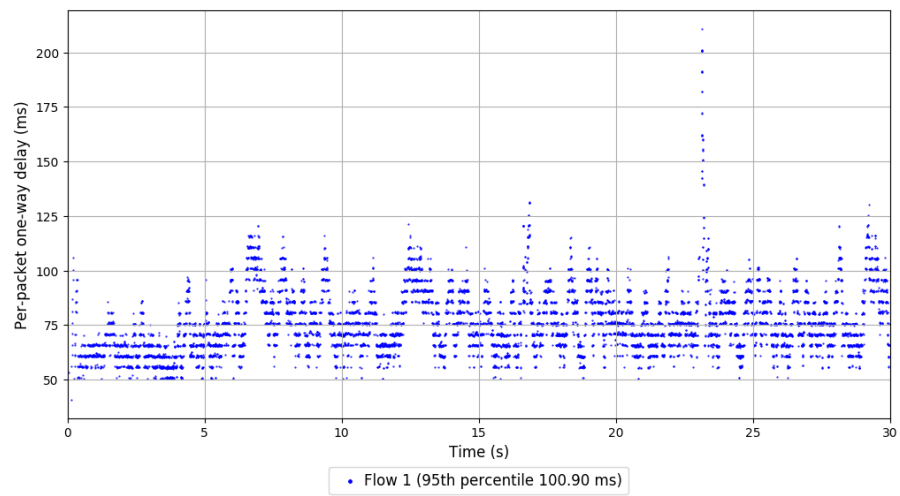
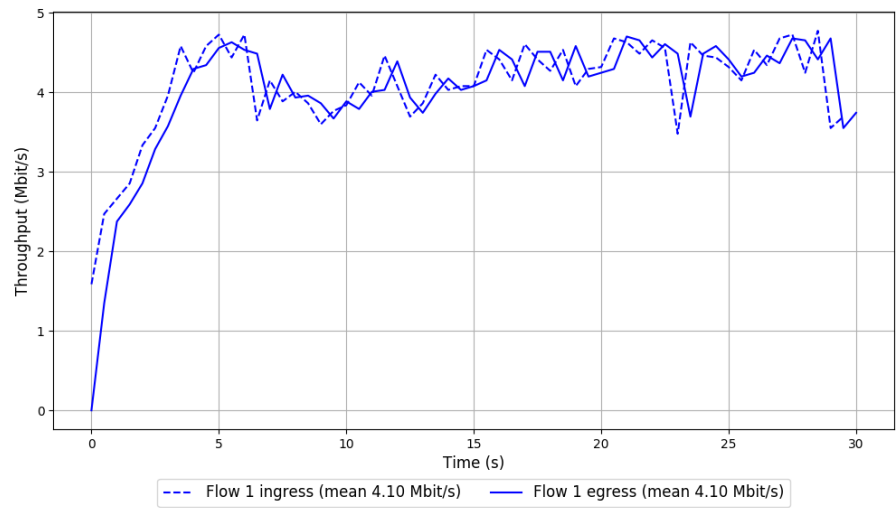


Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 21:53:33
End at: 2018-05-24 21:54:03
Local clock offset: -8.367 ms
Remote clock offset: -4.449 ms

Below is generated by plot.py at 2018-05-25 00:01:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 100.901 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 100.901 ms
Loss rate: 0.27%

Run 4: Report of TCP Vegas — Data Link

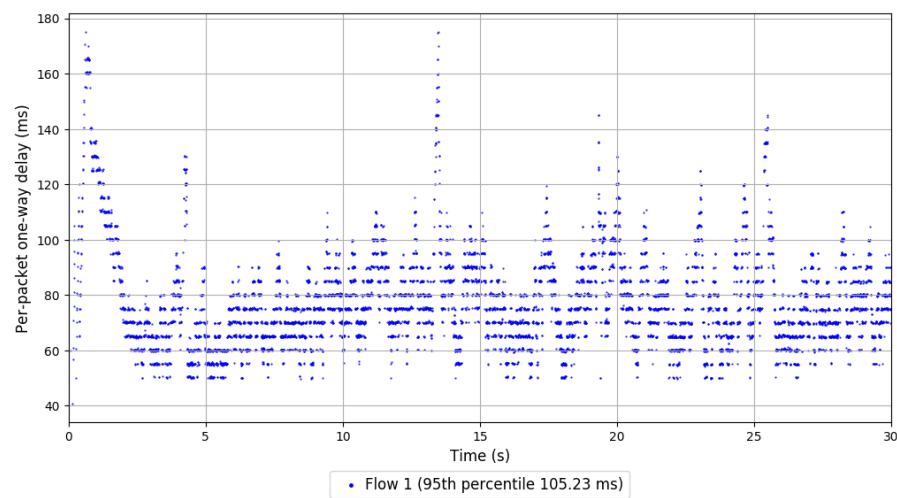
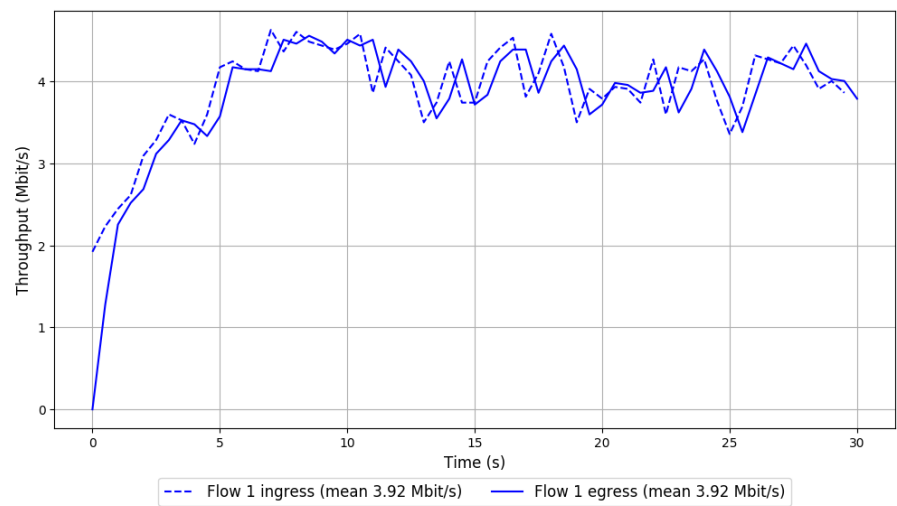


Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 22:10:50
End at: 2018-05-24 22:11:20
Local clock offset: -4.754 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-05-25 00:01:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 105.231 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 3.92 Mbit/s
95th percentile per-packet one-way delay: 105.231 ms
Loss rate: 0.28%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 22:28:11

End at: 2018-05-24 22:28:41

Local clock offset: -3.096 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-05-25 00:01:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 104.243 ms

Loss rate: 0.35%

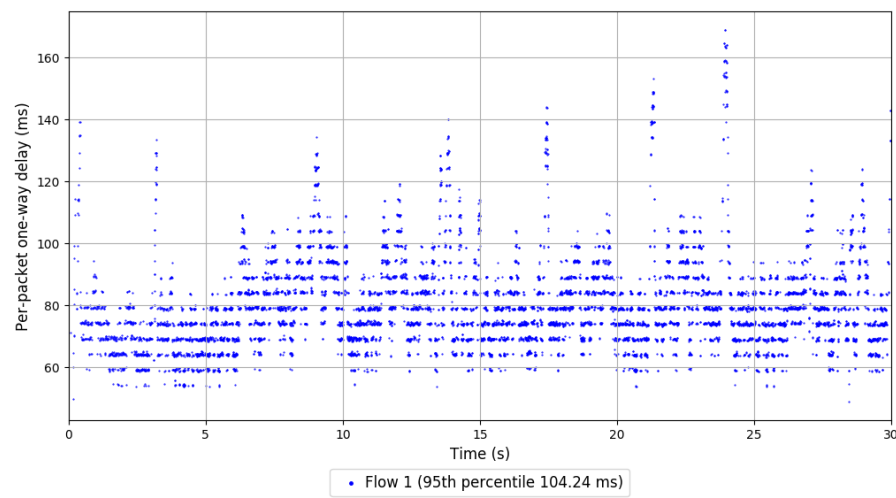
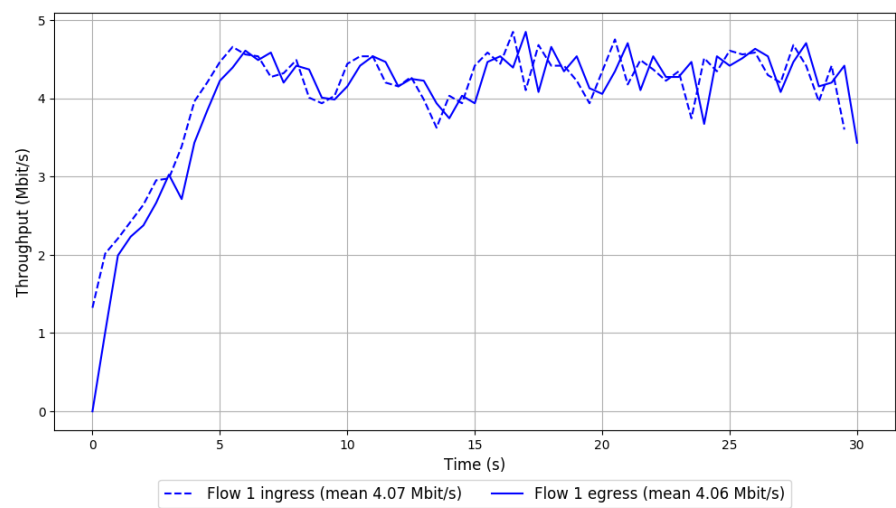
-- Flow 1:

Average throughput: 4.06 Mbit/s

95th percentile per-packet one-way delay: 104.243 ms

Loss rate: 0.35%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 22:45:30

End at: 2018-05-24 22:46:00

Local clock offset: -3.793 ms

Remote clock offset: 3.818 ms

Below is generated by plot.py at 2018-05-25 00:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 102.019 ms

Loss rate: 0.26%

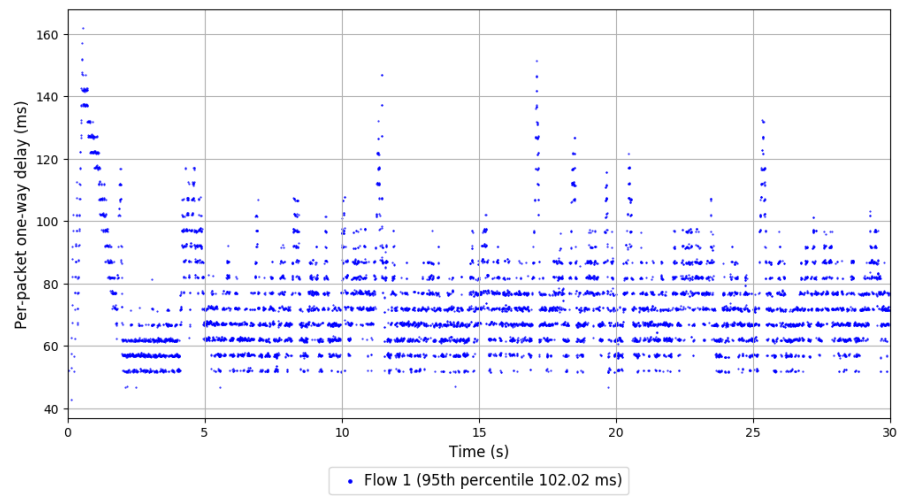
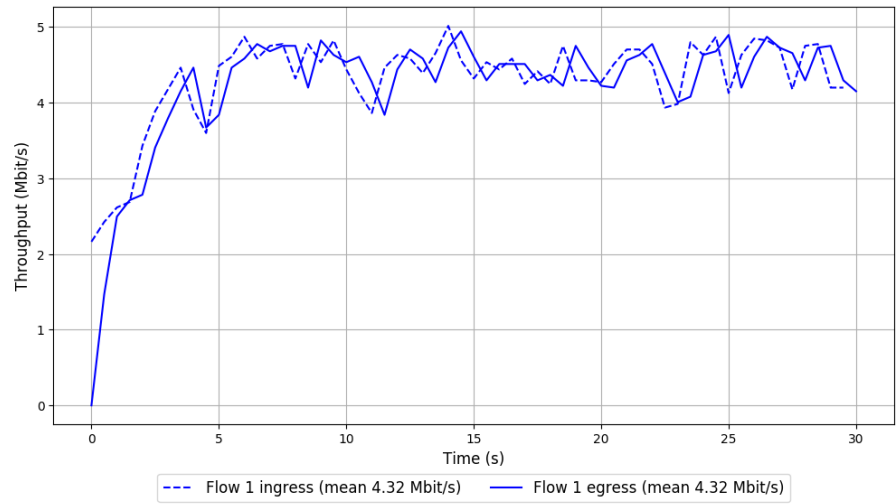
-- Flow 1:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 102.019 ms

Loss rate: 0.26%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/vegas_stats_ru

Run 8: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/vegas_stats_ru

Run 9: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/vegas_stats_ru

Run 10: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Verus

Start at: 2018-05-24 20:55:15

End at: 2018-05-24 20:55:45

Local clock offset: -0.601 ms

Remote clock offset: 3.365 ms

Below is generated by plot.py at 2018-05-25 00:01:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 66.478 ms

Loss rate: 0.00%

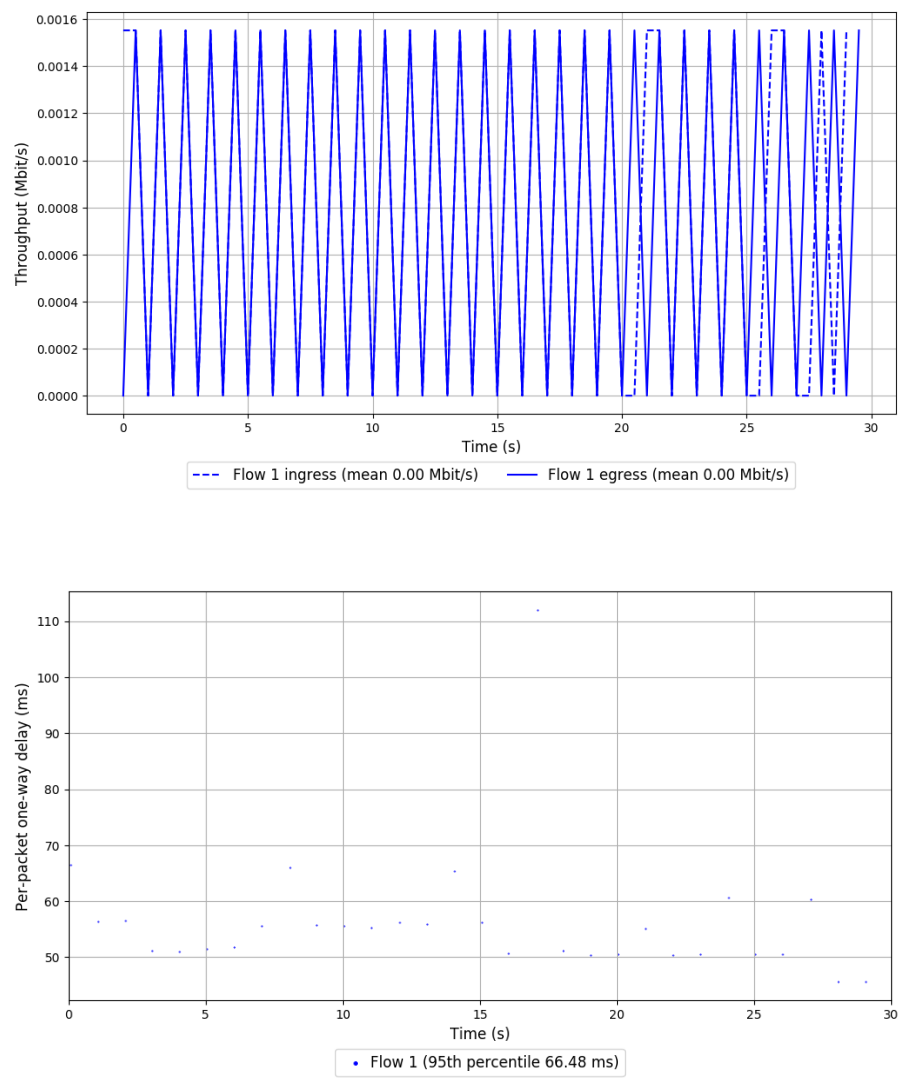
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 66.478 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

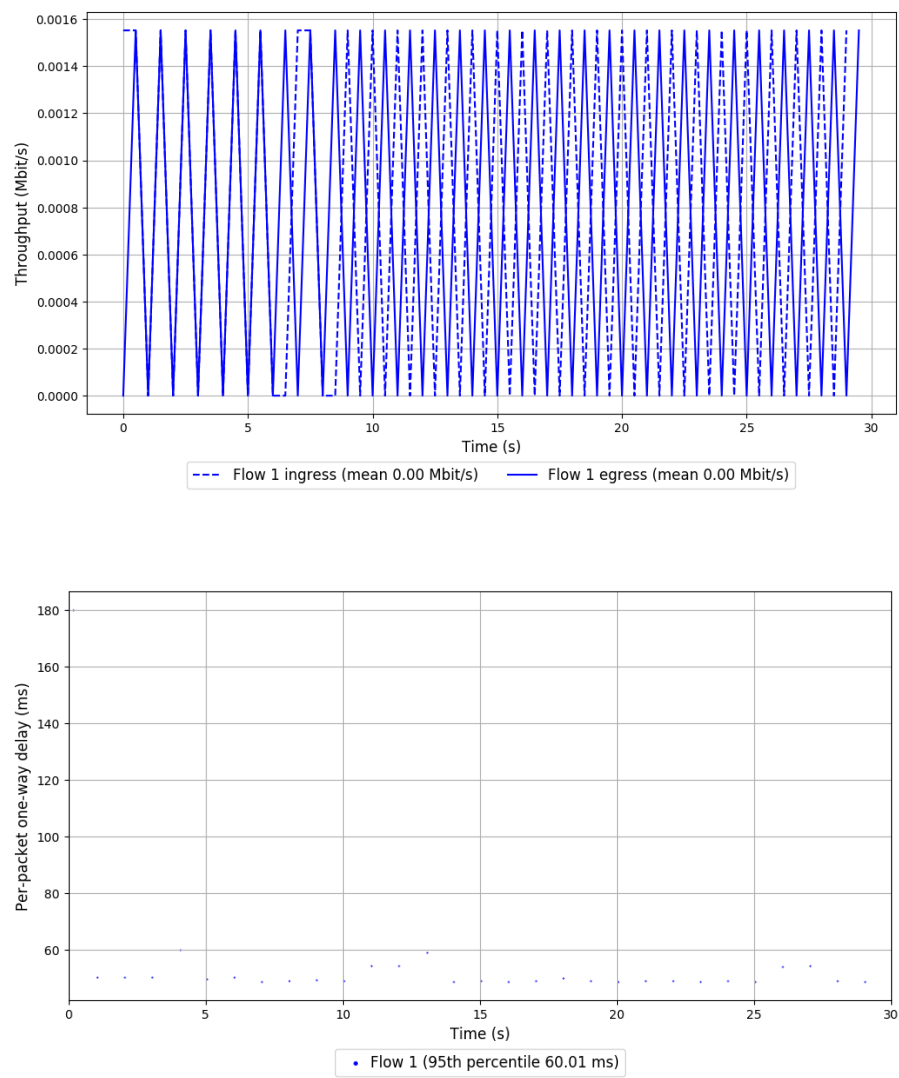


Run 2: Statistics of Verus

Start at: 2018-05-24 21:12:32
End at: 2018-05-24 21:13:02
Local clock offset: -3.766 ms
Remote clock offset: -2.189 ms

Below is generated by plot.py at 2018-05-25 00:01:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 60.013 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 60.013 ms
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

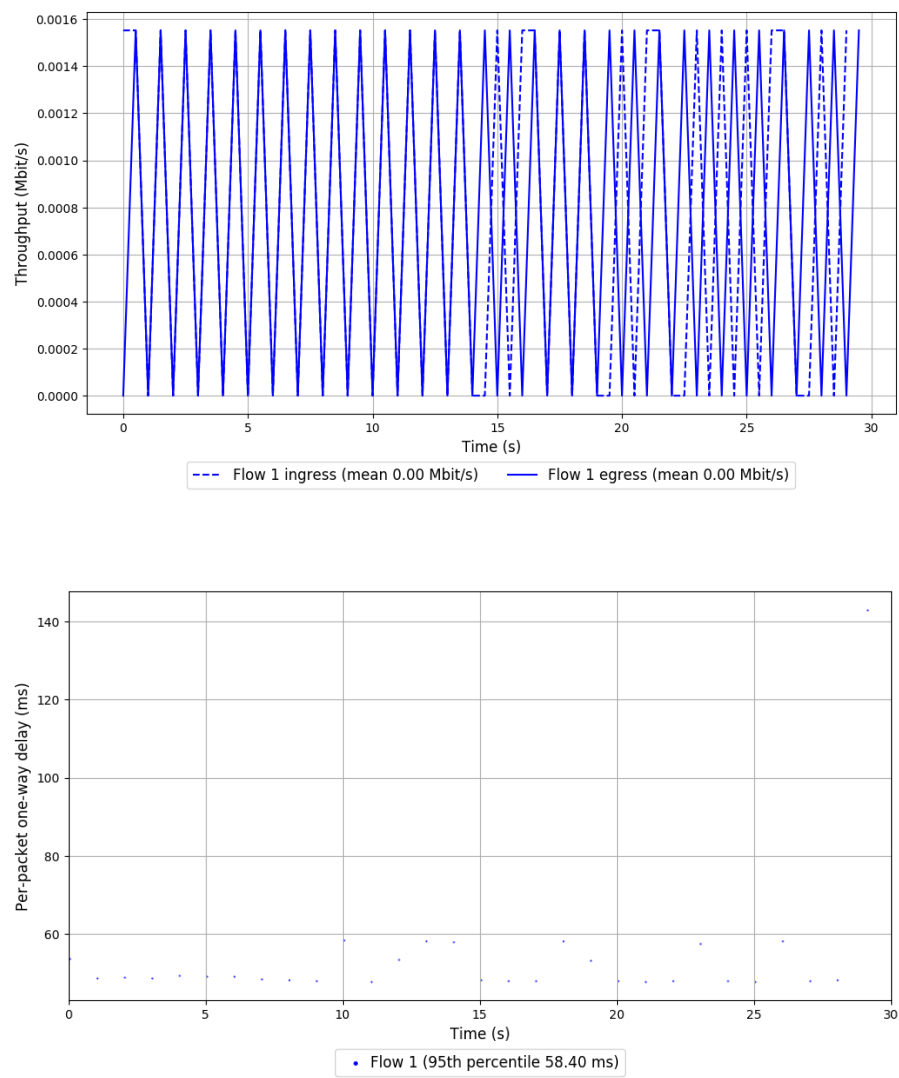


Run 3: Statistics of Verus

Start at: 2018-05-24 21:29:49
End at: 2018-05-24 21:30:19
Local clock offset: -6.495 ms
Remote clock offset: -10.037 ms

Below is generated by plot.py at 2018-05-25 00:01:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 58.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 58.398 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

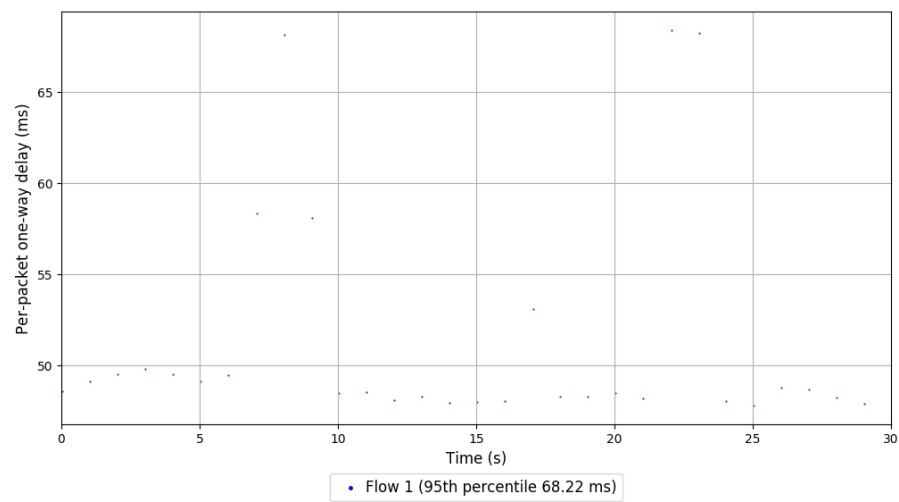
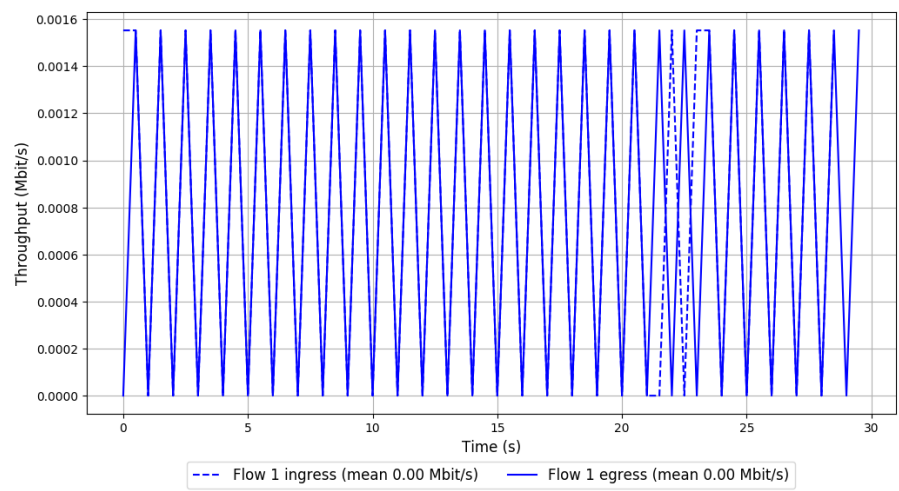


Run 4: Statistics of Verus

Start at: 2018-05-24 21:47:06
End at: 2018-05-24 21:47:36
Local clock offset: -6.961 ms
Remote clock offset: -7.719 ms

Below is generated by plot.py at 2018-05-25 00:01:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 68.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 68.218 ms
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

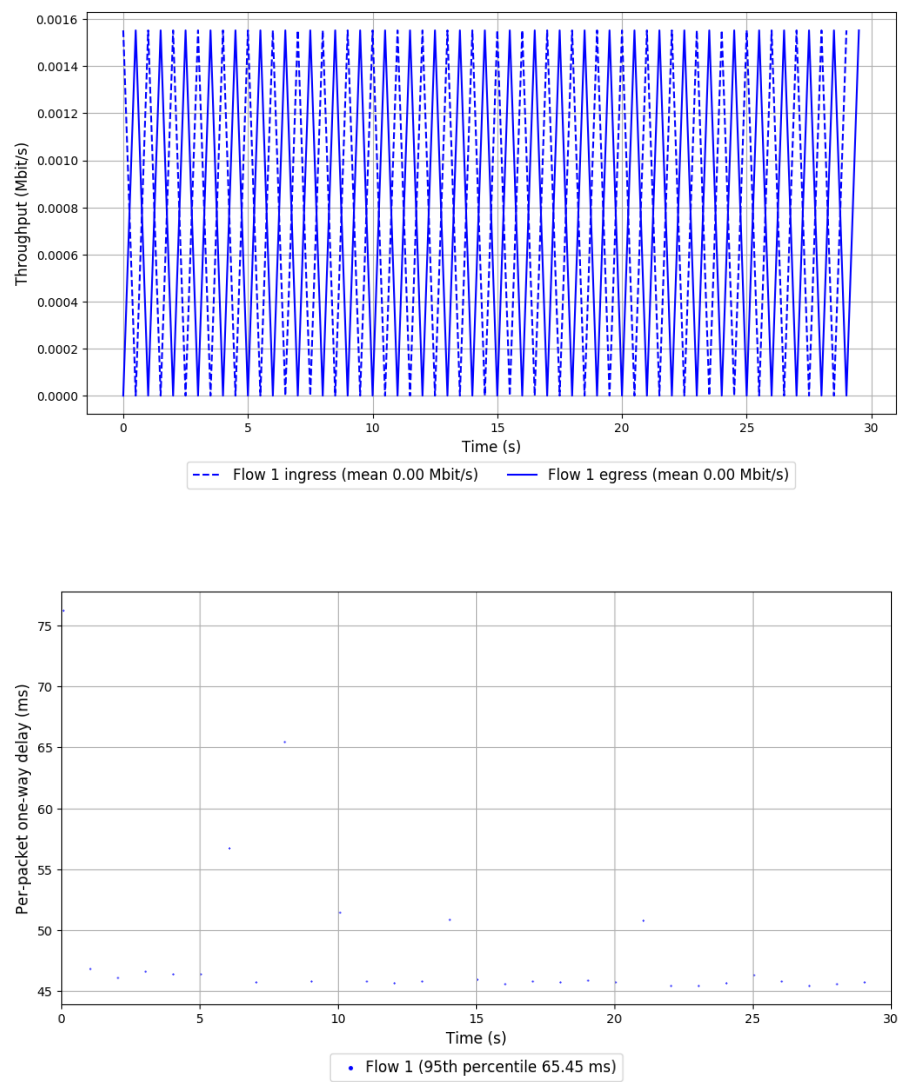


Run 5: Statistics of Verus

Start at: 2018-05-24 22:04:23
End at: 2018-05-24 22:04:53
Local clock offset: -6.073 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-05-25 00:01:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 65.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 65.448 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

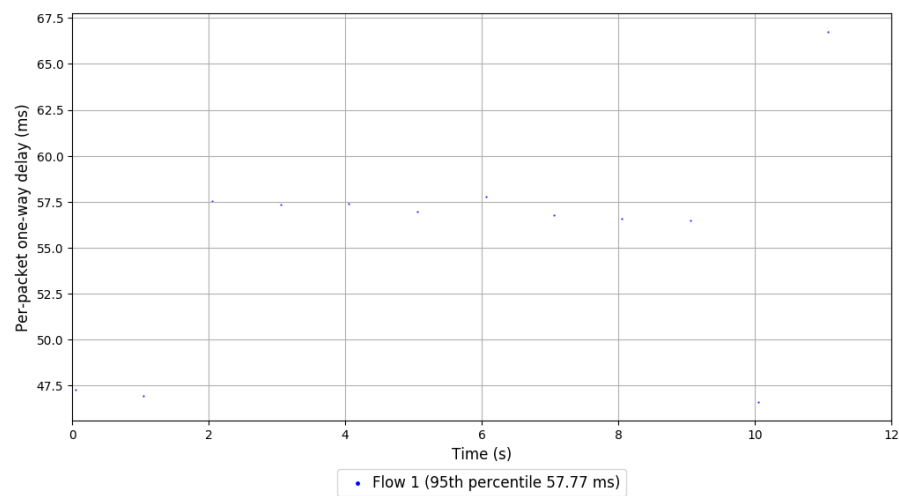
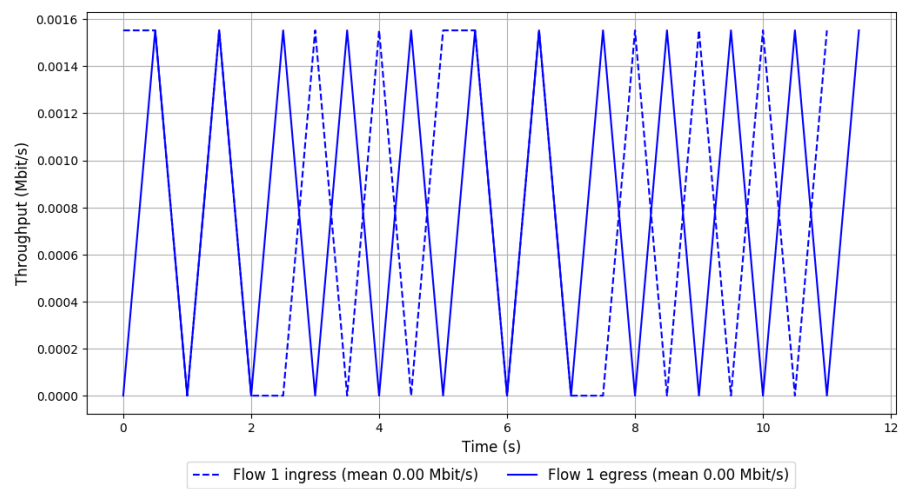
Start at: 2018-05-24 22:21:39

End at: 2018-05-24 22:22:09

Local clock offset: -3.824 ms

Remote clock offset: 2.487 ms

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-24 22:39:03

End at: 2018-05-24 22:39:33

Local clock offset: -5.226 ms

Remote clock offset: 3.486 ms

Below is generated by plot.py at 2018-05-25 00:01:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 55.266 ms

Loss rate: 0.00%

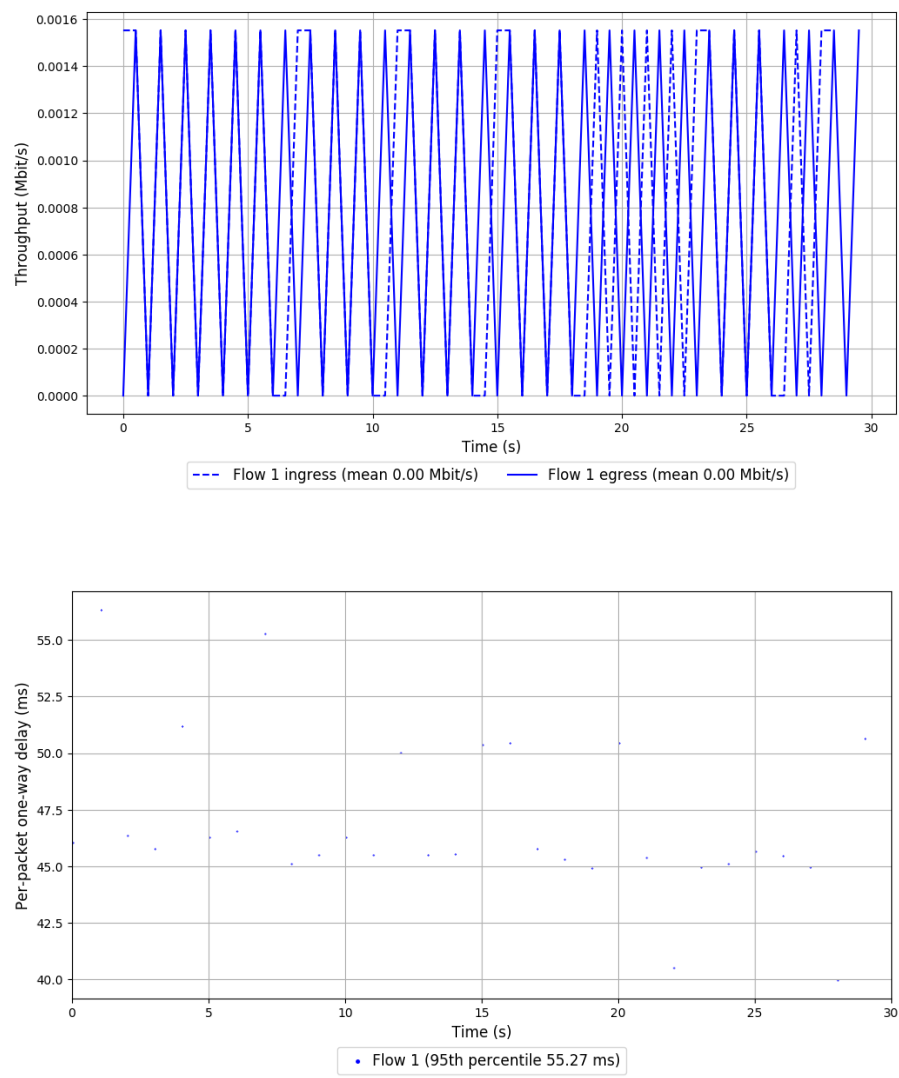
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 55.266 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/verus_stats_ru

Run 8: Report of Verus — Data Link

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Run 9: Statistics of Verus

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/verus_stats_ru

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/verus_stats_ru

Run 10: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

Start at: 2018-05-24 20:46:36

End at: 2018-05-24 20:47:06

Local clock offset: -5.313 ms

Remote clock offset: 1.512 ms

Below is generated by plot.py at 2018-05-25 00:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 325.251 ms

Loss rate: 6.42%

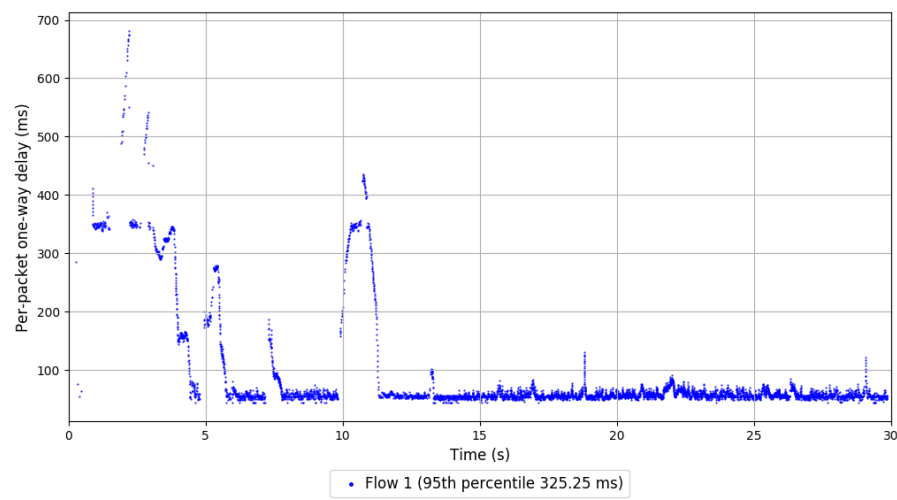
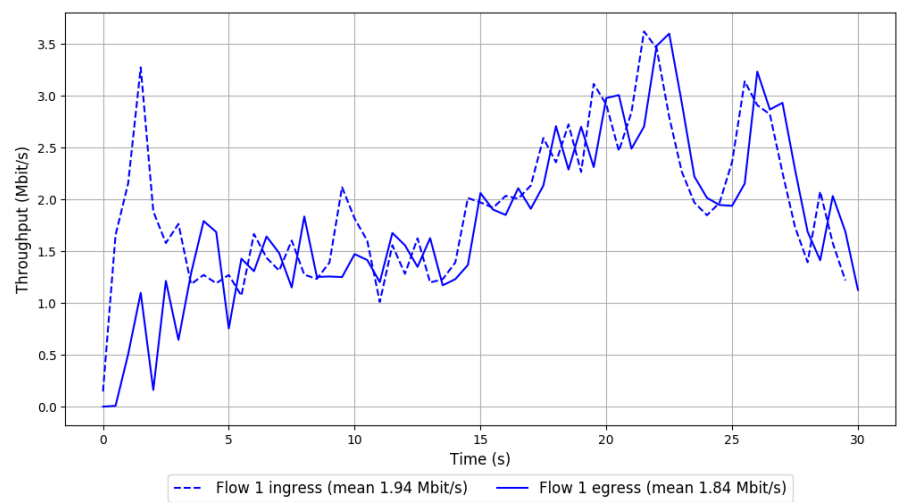
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 325.251 ms

Loss rate: 6.42%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-24 21:03:51

End at: 2018-05-24 21:04:21

Local clock offset: -3.634 ms

Remote clock offset: 3.137 ms

Below is generated by plot.py at 2018-05-25 00:01:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 123.071 ms

Loss rate: 0.63%

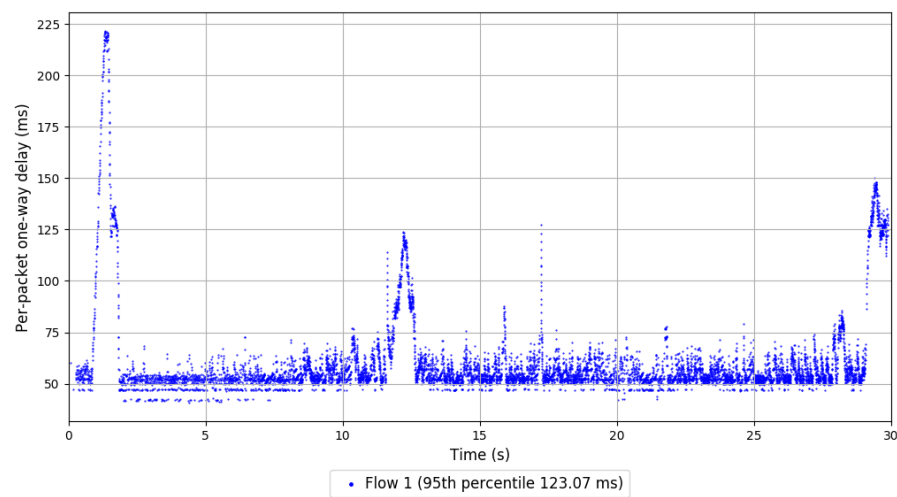
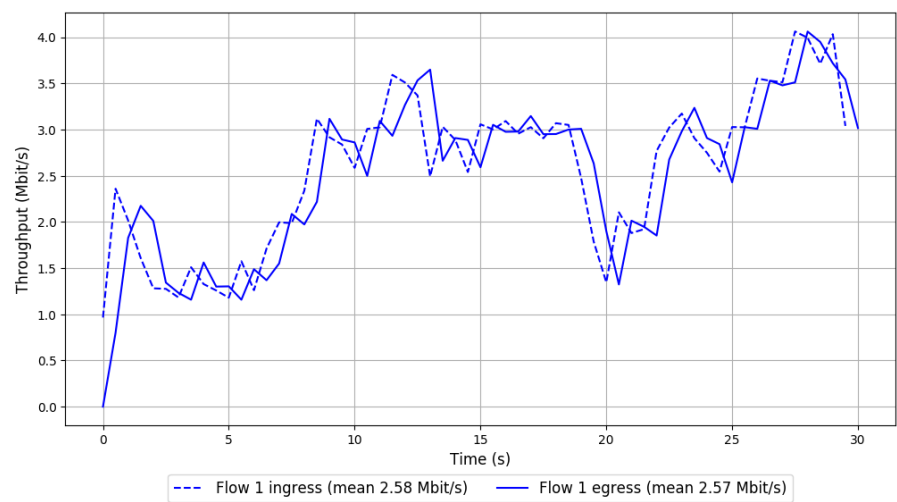
-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 123.071 ms

Loss rate: 0.63%

Run 2: Report of PCC-Vivace — Data Link

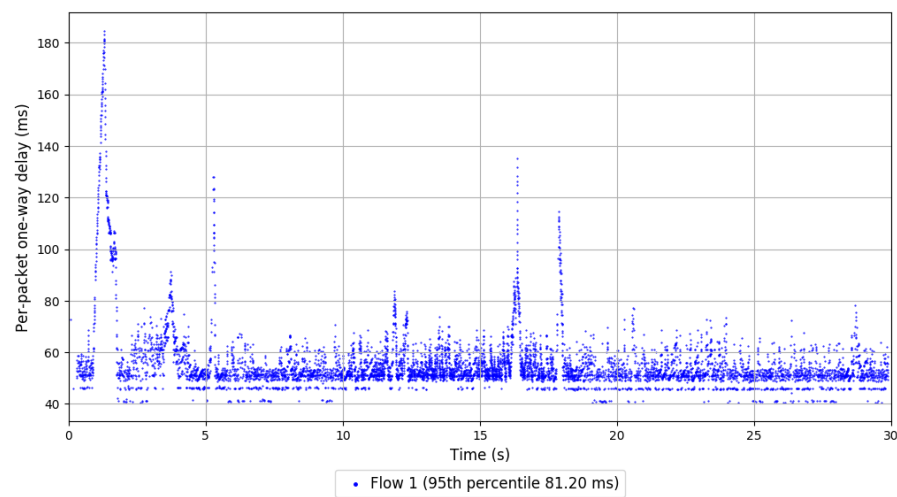
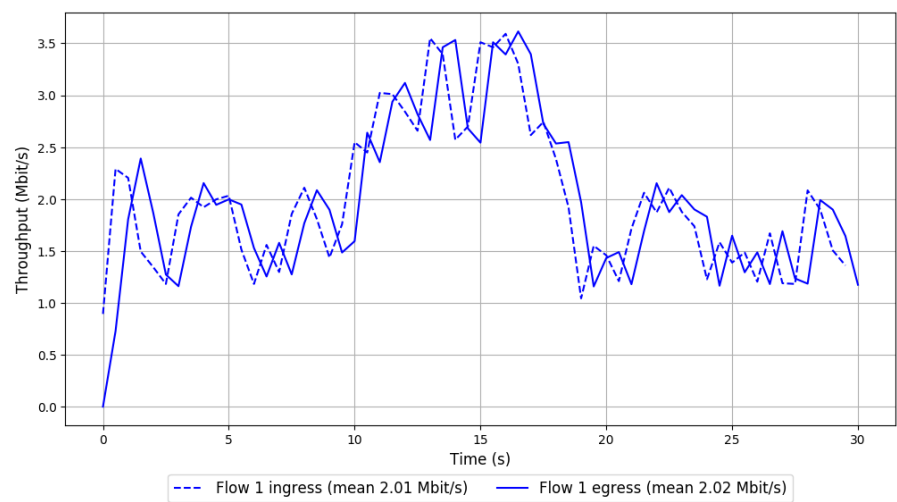


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 21:21:10
End at: 2018-05-24 21:21:40
Local clock offset: -6.907 ms
Remote clock offset: -8.547 ms

Below is generated by plot.py at 2018-05-25 00:01:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 81.205 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 81.205 ms
Loss rate: 0.23%

Run 3: Report of PCC-Vivace — Data Link

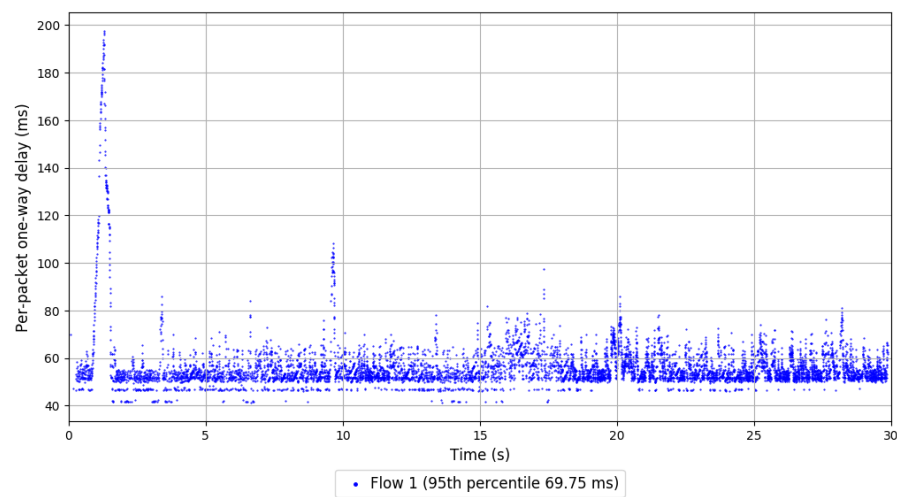
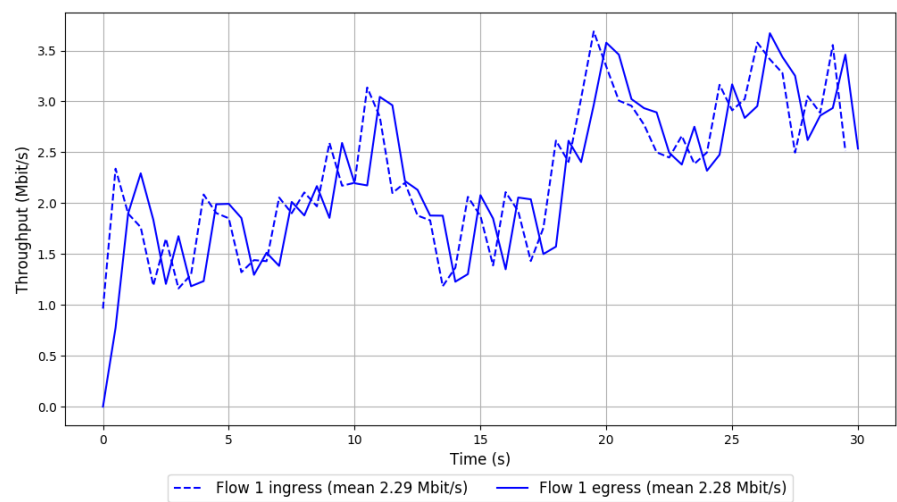


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 21:38:26
End at: 2018-05-24 21:38:56
Local clock offset: -7.106 ms
Remote clock offset: -13.309 ms

Below is generated by plot.py at 2018-05-25 00:01:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 69.745 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 69.745 ms
Loss rate: 0.32%

Run 4: Report of PCC-Vivace — Data Link

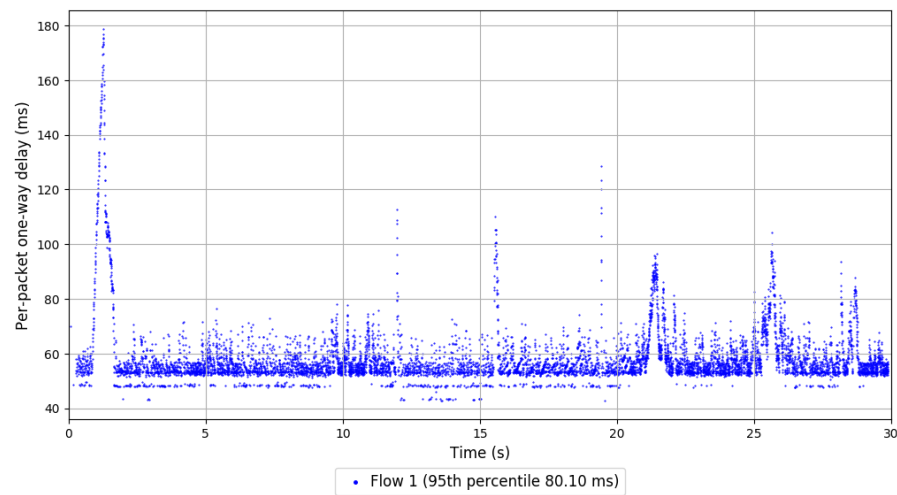
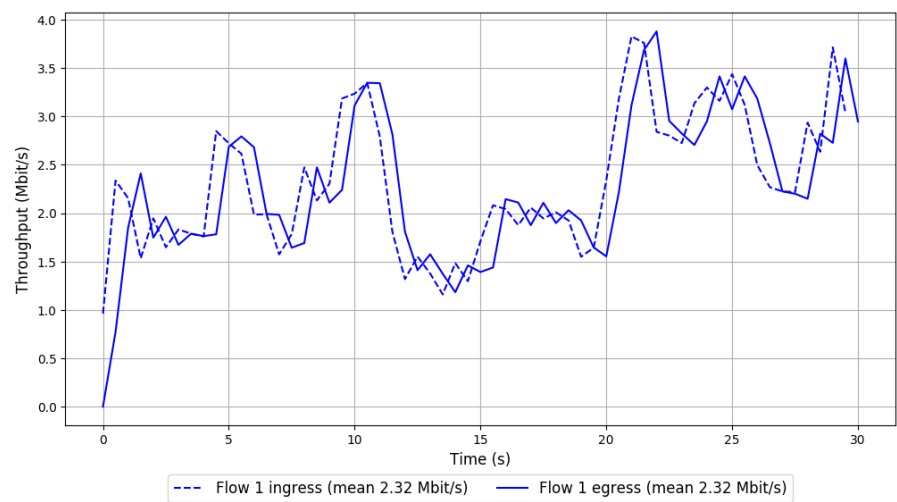


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 21:55:42
End at: 2018-05-24 21:56:12
Local clock offset: -6.351 ms
Remote clock offset: -5.129 ms

Below is generated by plot.py at 2018-05-25 00:01:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 80.104 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 80.104 ms
Loss rate: 0.39%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 22:13:00

End at: 2018-05-24 22:13:30

Local clock offset: -5.25 ms

Remote clock offset: -1.4 ms

Below is generated by plot.py at 2018-05-25 00:01:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 65.769 ms

Loss rate: 0.22%

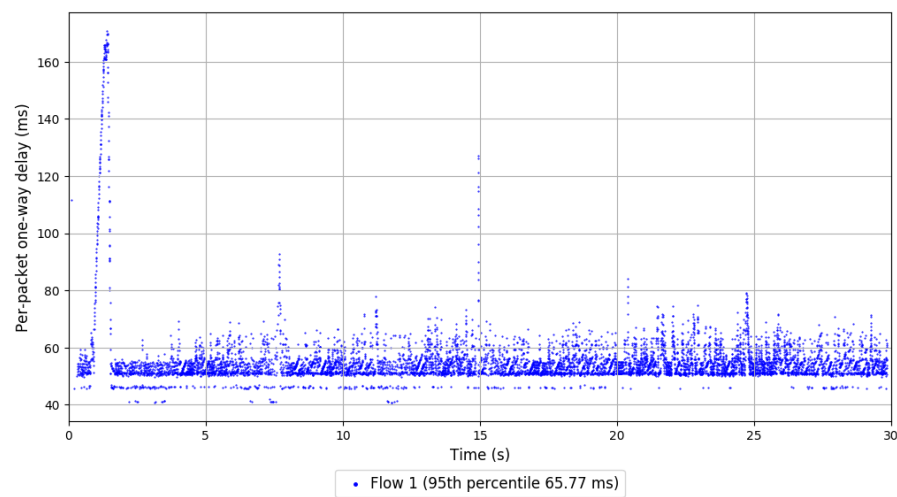
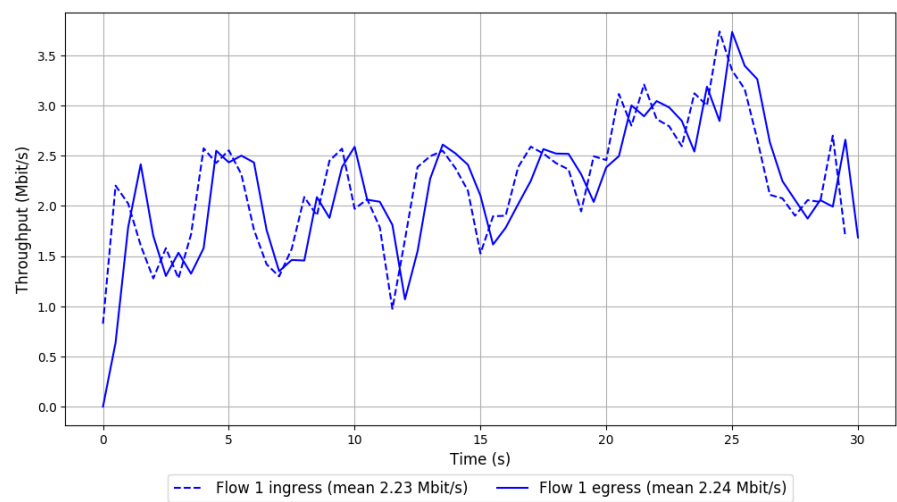
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 65.769 ms

Loss rate: 0.22%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 22:30:21

End at: 2018-05-24 22:30:51

Local clock offset: -3.693 ms

Remote clock offset: 2.365 ms

Below is generated by plot.py at 2018-05-25 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 69.982 ms

Loss rate: 0.34%

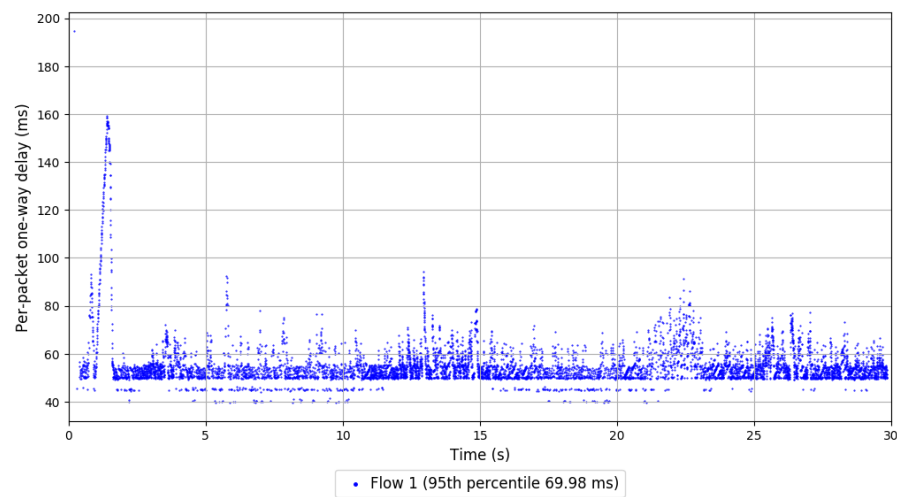
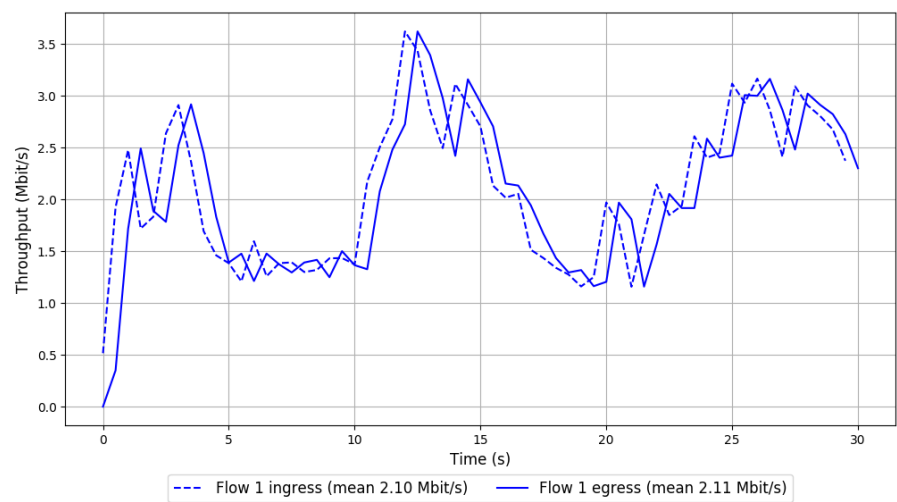
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 69.982 ms

Loss rate: 0.34%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 22:47:39

End at: 2018-05-24 22:48:09

Local clock offset: -3.662 ms

Remote clock offset: 3.752 ms

Below is generated by plot.py at 2018-05-25 00:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 339.764 ms

Loss rate: 9.35%

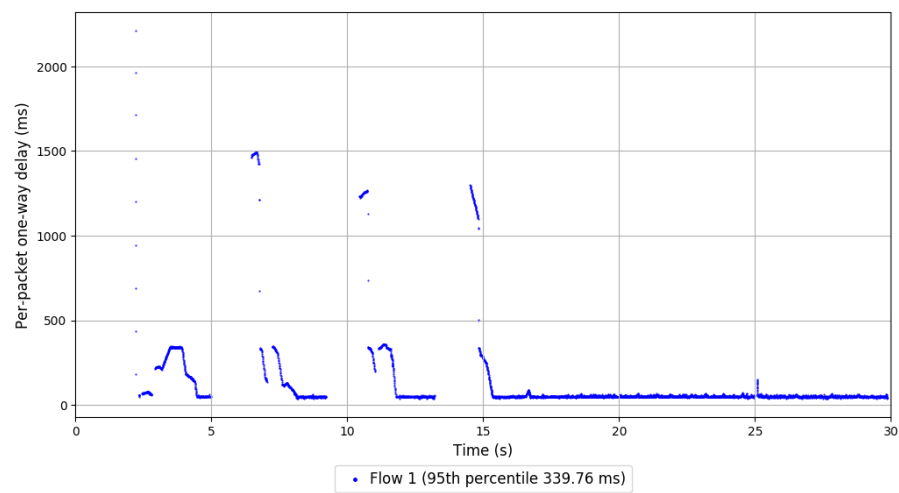
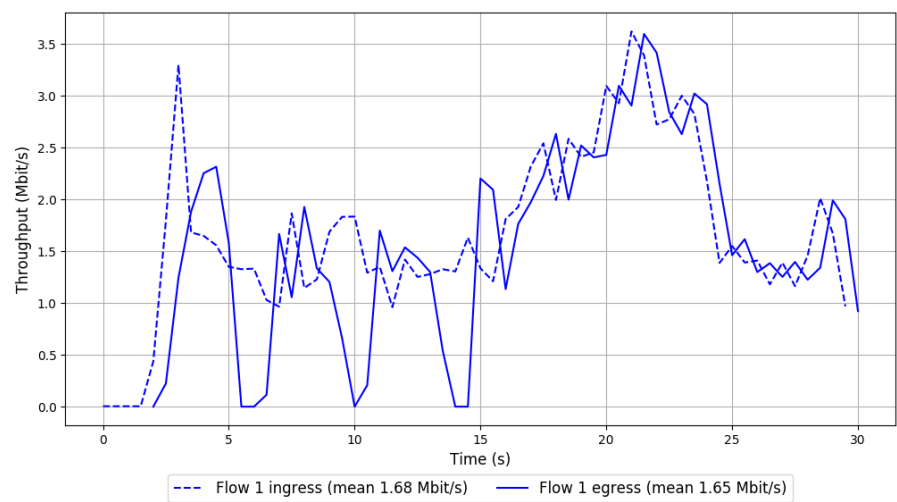
-- Flow 1:

Average throughput: 1.65 Mbit/s

95th percentile per-packet one-way delay: 339.764 ms

Loss rate: 9.35%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/vivace_stats_1

Run 9: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/vivace_stats_1

Run 10: Report of PCC-Vivace — Data Link

Figure is missing

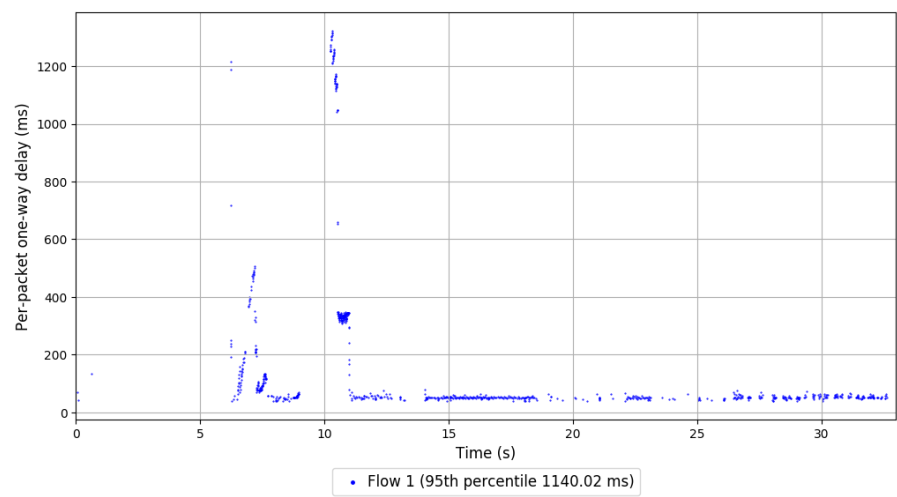
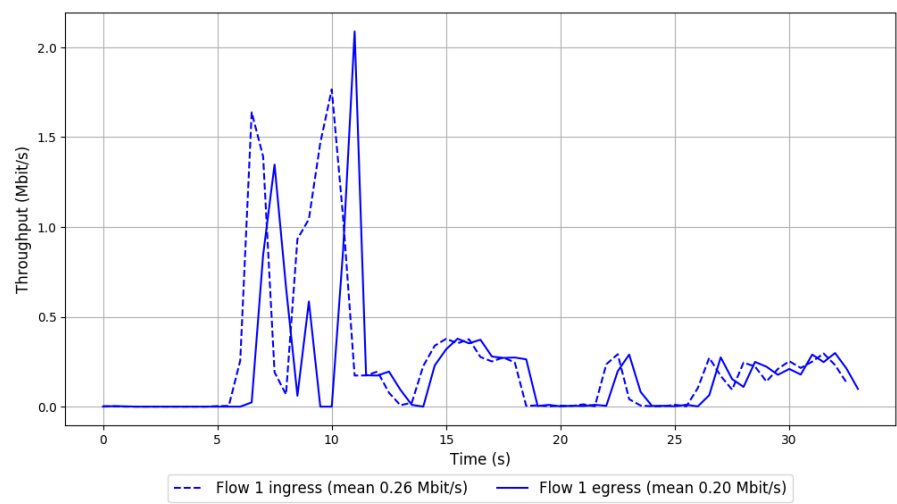
Figure is missing

```
Run 1: Statistics of WebRTC media

Start at: 2018-05-24 20:52:01
End at: 2018-05-24 20:52:31
Local clock offset: -2.946 ms
Remote clock offset: 2.467 ms

# Below is generated by plot.py at 2018-05-25 00:01:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 1140.019 ms
Loss rate: 20.14%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 1140.019 ms
Loss rate: 20.14%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-24 21:09:18

End at: 2018-05-24 21:09:48

Local clock offset: -3.211 ms

Remote clock offset: 1.006 ms

Below is generated by plot.py at 2018-05-25 00:01:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 84.742 ms

Loss rate: 0.29%

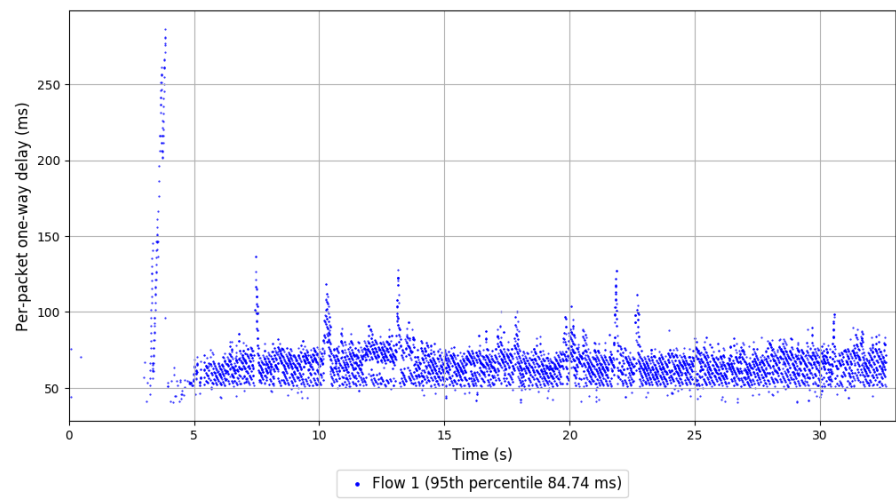
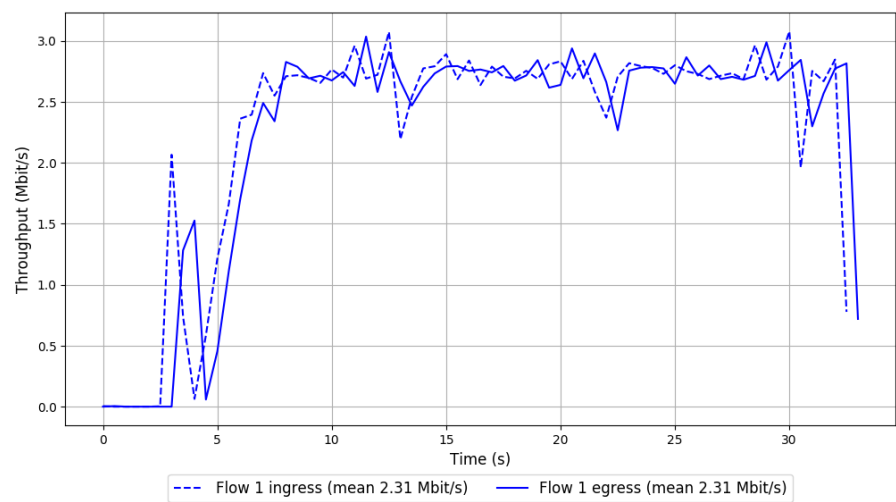
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 84.742 ms

Loss rate: 0.29%

Run 2: Report of WebRTC media — Data Link

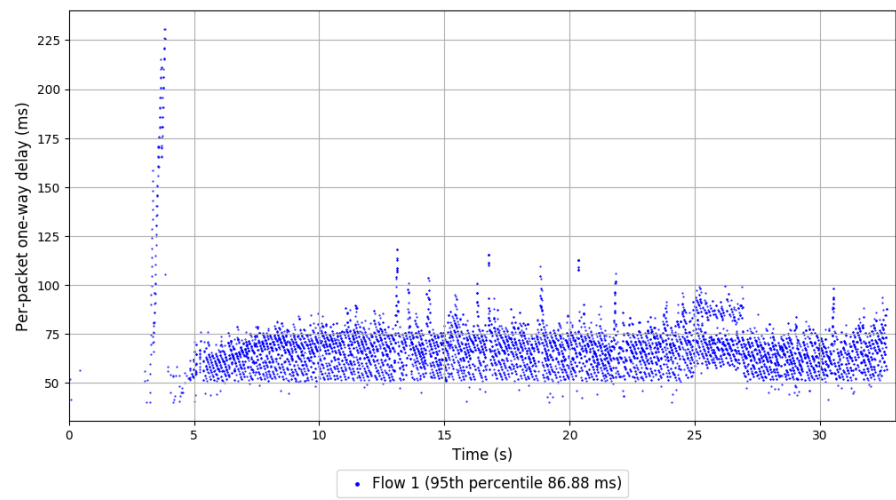
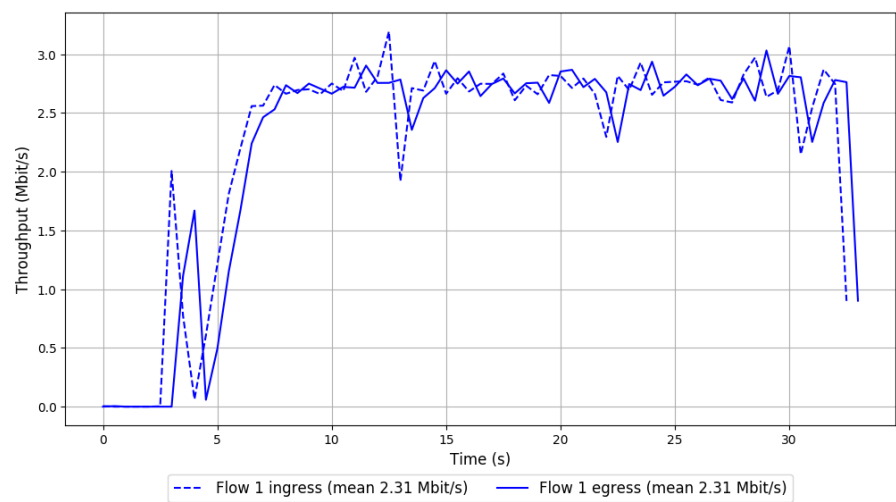


Run 3: Statistics of WebRTC media

Start at: 2018-05-24 21:26:35
End at: 2018-05-24 21:27:05
Local clock offset: -4.69 ms
Remote clock offset: -9.202 ms

Below is generated by plot.py at 2018-05-25 00:01:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.28%

Run 3: Report of WebRTC media — Data Link

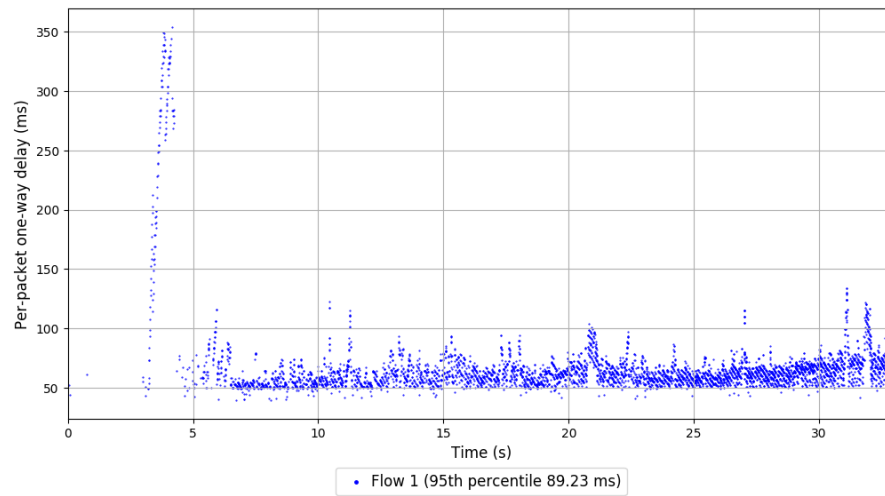
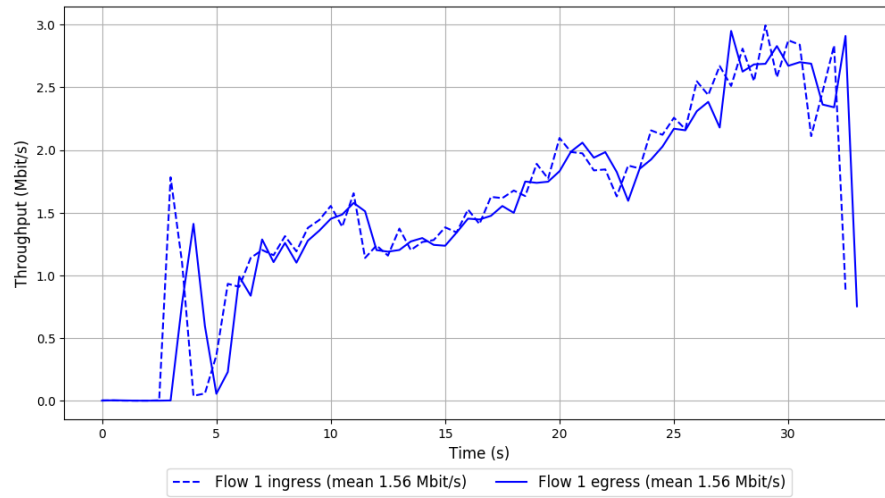


Run 4: Statistics of WebRTC media

Start at: 2018-05-24 21:43:52
End at: 2018-05-24 21:44:22
Local clock offset: -7.776 ms
Remote clock offset: -10.391 ms

Below is generated by plot.py at 2018-05-25 00:01:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 89.235 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 89.235 ms
Loss rate: 0.67%

Run 4: Report of WebRTC media — Data Link

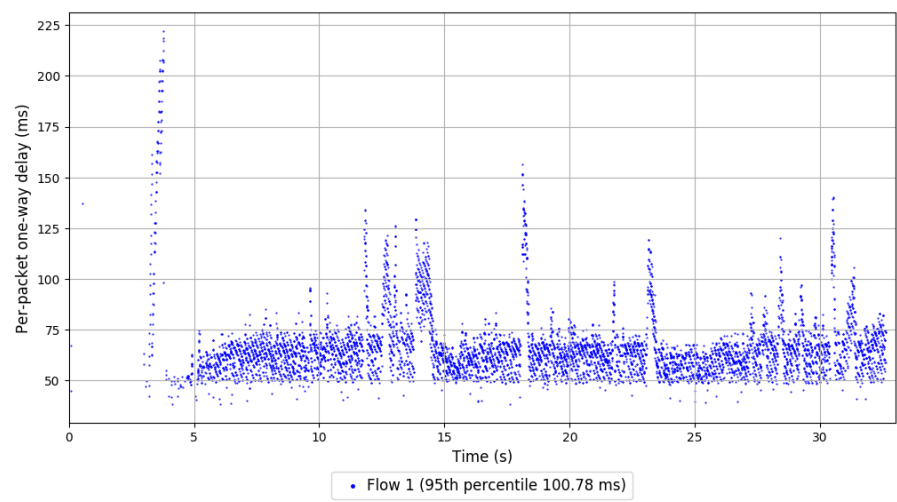
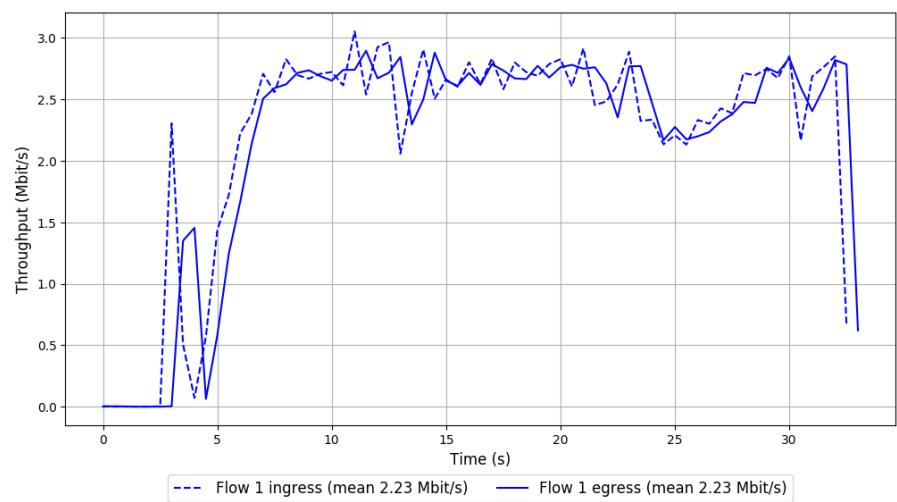


Run 5: Statistics of WebRTC media

Start at: 2018-05-24 22:01:10
End at: 2018-05-24 22:01:40
Local clock offset: -5.876 ms
Remote clock offset: -1.169 ms

Below is generated by plot.py at 2018-05-25 00:01:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 100.784 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 100.784 ms
Loss rate: 0.30%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-24 22:18:24

End at: 2018-05-24 22:18:54

Local clock offset: -5.312 ms

Remote clock offset: 0.427 ms

Below is generated by plot.py at 2018-05-25 00:01:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 260.987 ms

Loss rate: 2.63%

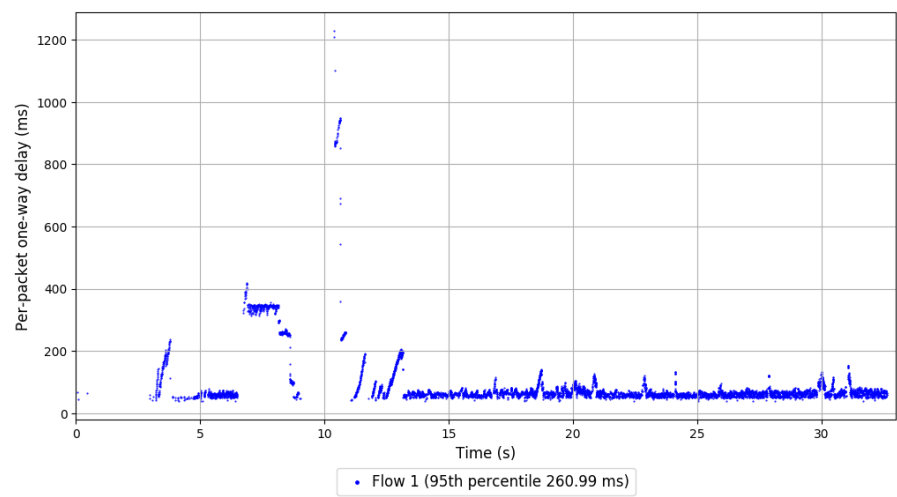
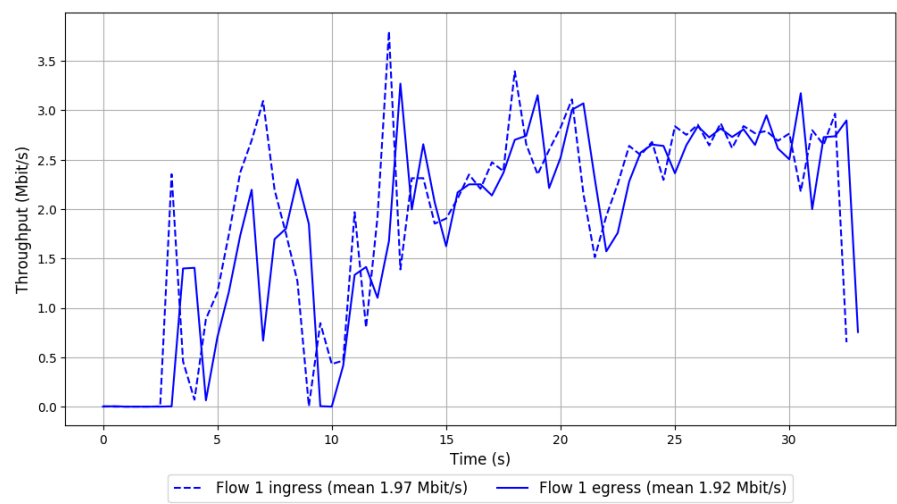
-- Flow 1:

Average throughput: 1.92 Mbit/s

95th percentile per-packet one-way delay: 260.987 ms

Loss rate: 2.63%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-24 22:35:44

End at: 2018-05-24 22:36:14

Local clock offset: -2.877 ms

Remote clock offset: 2.248 ms

Below is generated by plot.py at 2018-05-25 00:01:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 121.539 ms

Loss rate: 0.32%

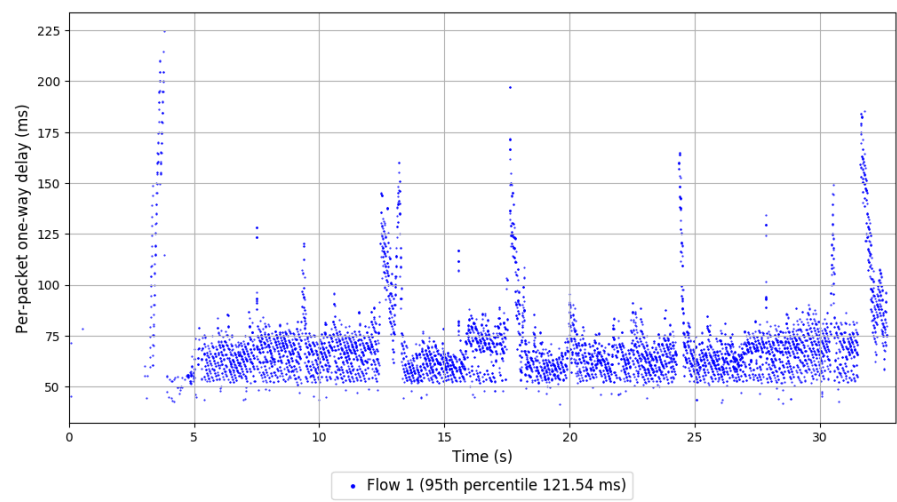
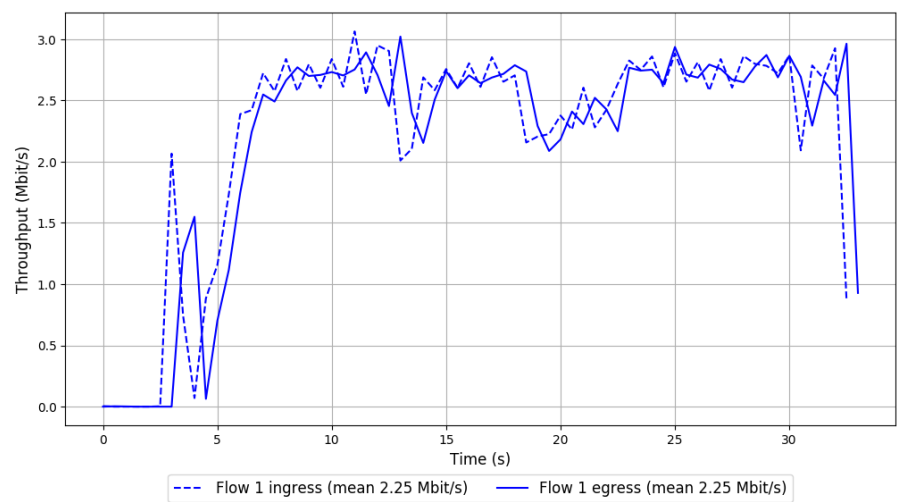
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 121.539 ms

Loss rate: 0.32%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/webrtc_stats_1

Run 8: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/webrtc_stats_1

Run 9: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-05-24T20-45-India-ppp0-to-AWS-India-1-10-runs/webrtc_stats_1

Run 10: Report of WebRTC media — Data Link

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Figure is missing