

Pantheon Report

Generated at 2019-02-05 07:09:30 (UTC).
Data path: AWS India 1 on `ens5 (local)` → India cellular on `ppp0 (remote)`.
Repeated the test of 21 congestion control schemes 3 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

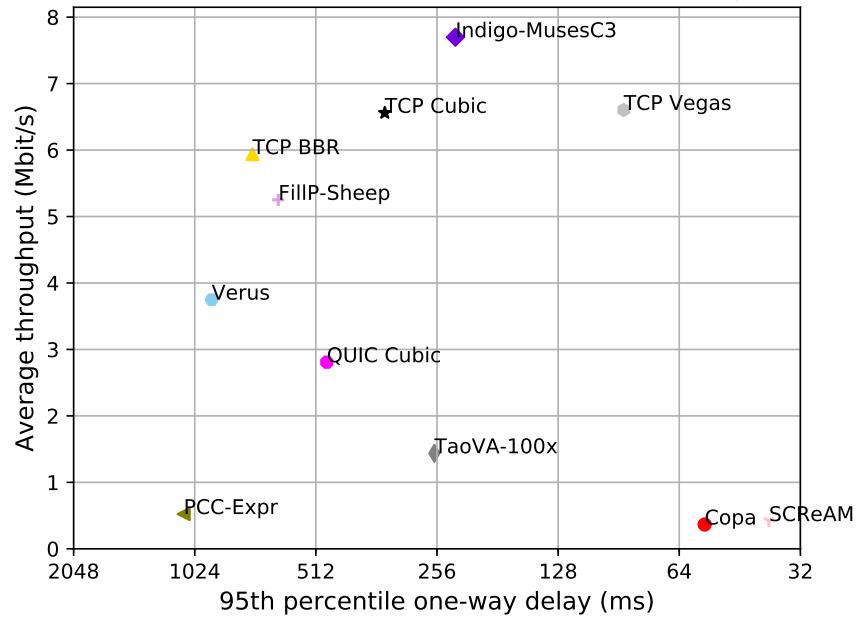
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

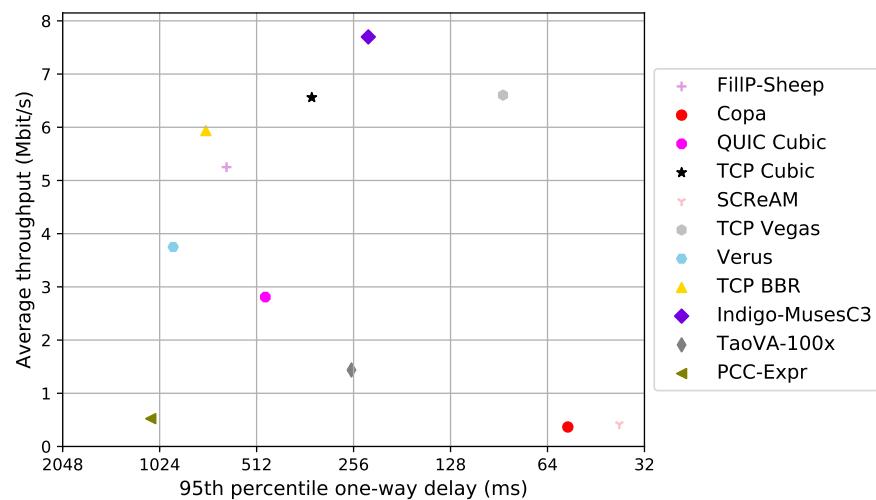
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fce56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS India 1 to India cellular, 3 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 1 to India cellular, 3 runs of 30s each per scheme
 3 flows with 10s interval between flows

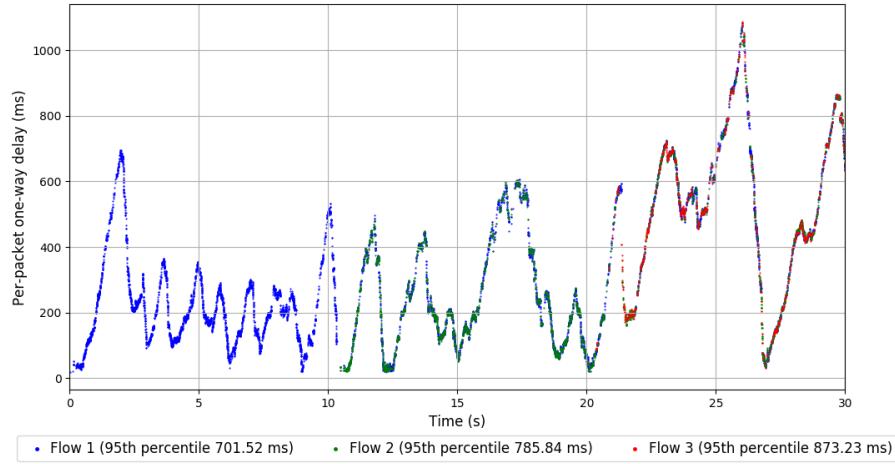
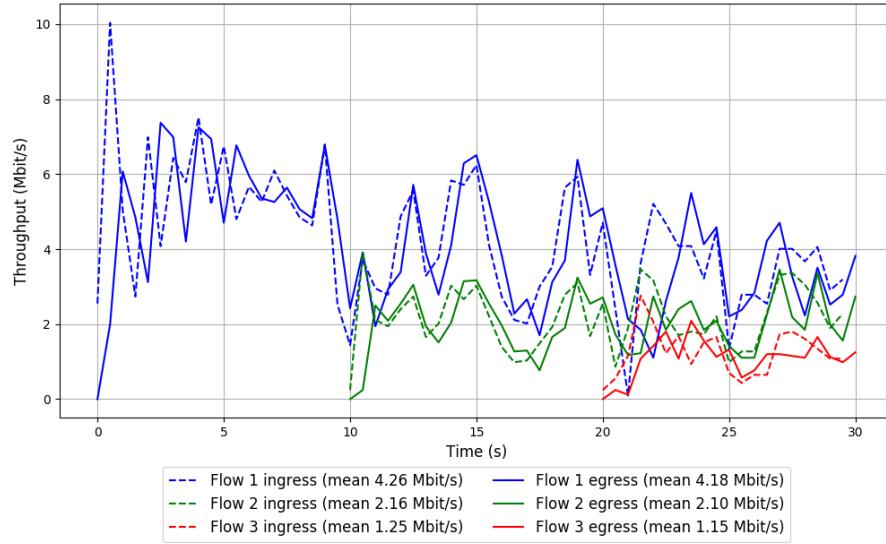


Run 1: Statistics of TCP BBR

```
Start at: 2019-02-05 05:44:55
End at: 2019-02-05 05:45:25
Local clock offset: -1.461 ms
Remote clock offset: -4.504 ms

# Below is generated by plot.py at 2019-02-05 07:09:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 735.832 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 701.520 ms
Loss rate: 2.01%
-- Flow 2:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 785.843 ms
Loss rate: 3.93%
-- Flow 3:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 873.225 ms
Loss rate: 8.02%
```

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/bbr

Run 2: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/bbr

Run 3: Report of TCP BBR — Data Link

Figure is missing

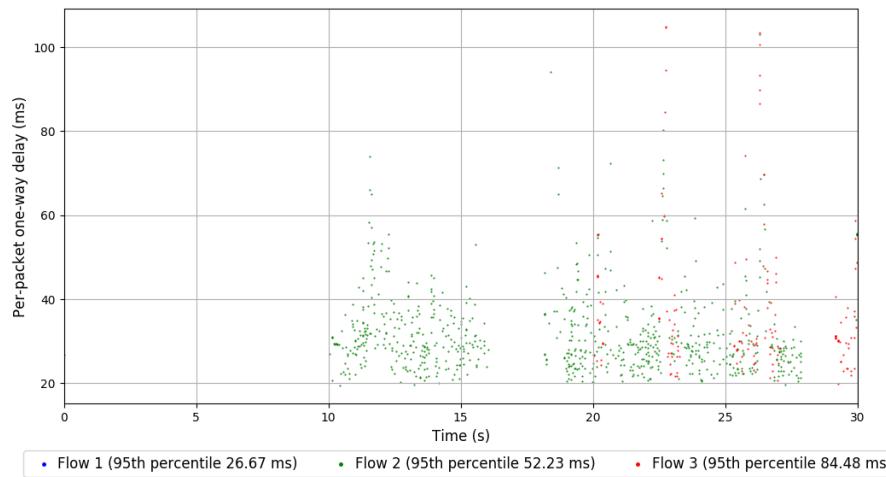
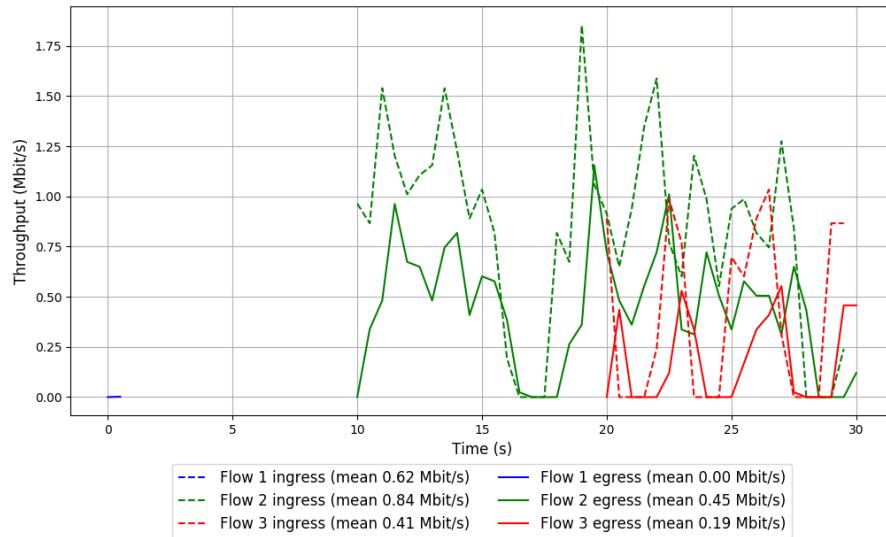
Figure is missing

Run 1: Statistics of Copa

```
Start at: 2019-02-05 05:49:35
End at: 2019-02-05 05:50:05
Local clock offset: -2.084 ms
Remote clock offset: -4.743 ms

# Below is generated by plot.py at 2019-02-05 07:09:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 55.344 ms
Loss rate: 47.36%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 26.672 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 52.235 ms
Loss rate: 45.74%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 84.484 ms
Loss rate: 53.08%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/cop

Run 2: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Copa

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/cop

Run 3: Report of Copa — Data Link

Figure is missing

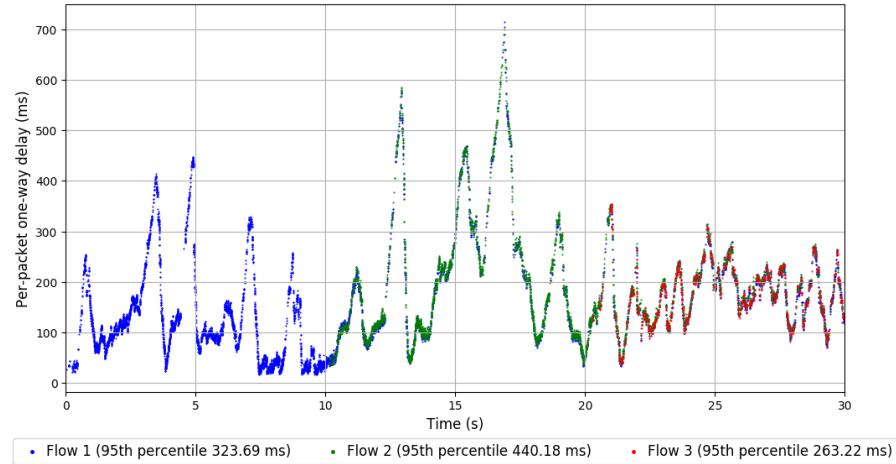
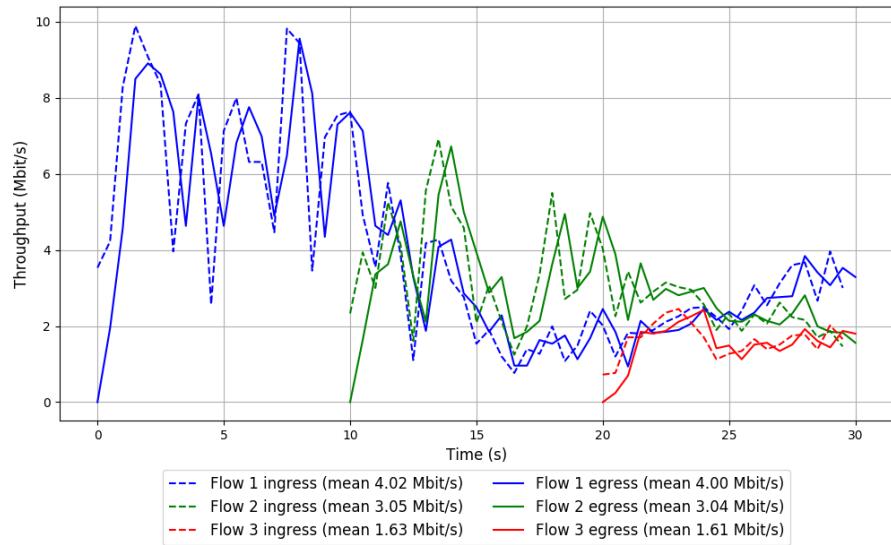
Figure is missing

```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-02-05 05:40:07
End at: 2019-02-05 05:40:37
Local clock offset: 0.804 ms
Remote clock offset: -4.742 ms

# Below is generated by plot.py at 2019-02-05 07:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 345.138 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 4.00 Mbit/s
95th percentile per-packet one-way delay: 323.686 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 440.177 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 263.224 ms
Loss rate: 1.85%
```

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/cub

Run 2: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/cub

Run 3: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of FillP

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/fil

Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of FillP

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/fil

Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/fil

Run 3: Report of FillP — Data Link

Figure is missing

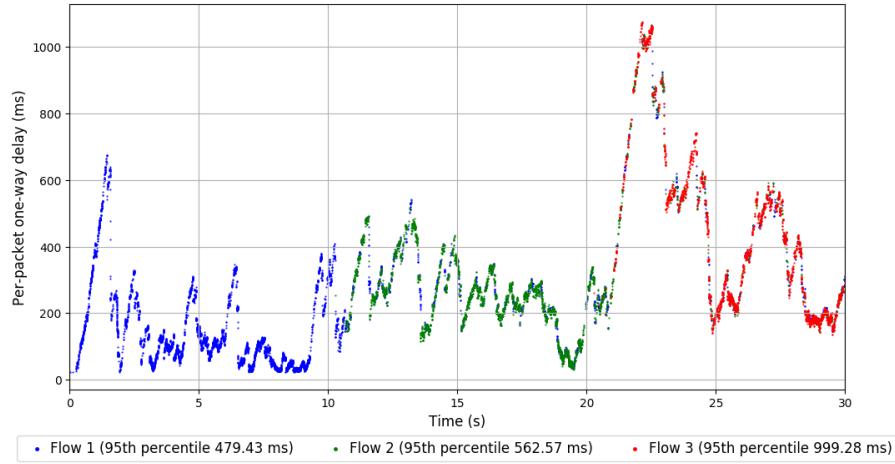
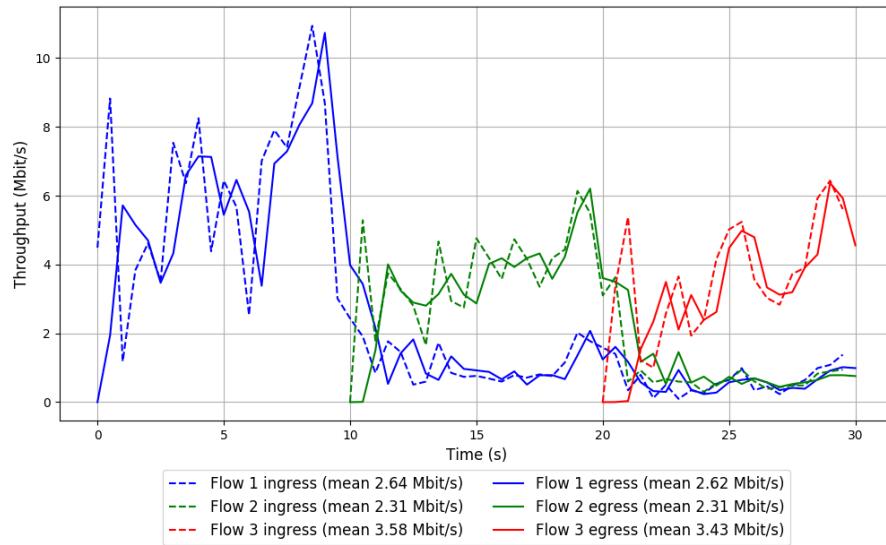
Figure is missing

```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-05 05:41:17
End at: 2019-02-05 05:41:47
Local clock offset: -2.09 ms
Remote clock offset: -3.735 ms

# Below is generated by plot.py at 2019-02-05 07:09:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 634.752 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 479.425 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 562.574 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 999.278 ms
Loss rate: 6.19%
```

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/fil

Run 2: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/fil

Run 3: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Indigo

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/indigo

Run 1: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Indigo

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/indigo

Run 2: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Indigo

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/indigo

Run 3: Report of Indigo — Data Link

Figure is missing

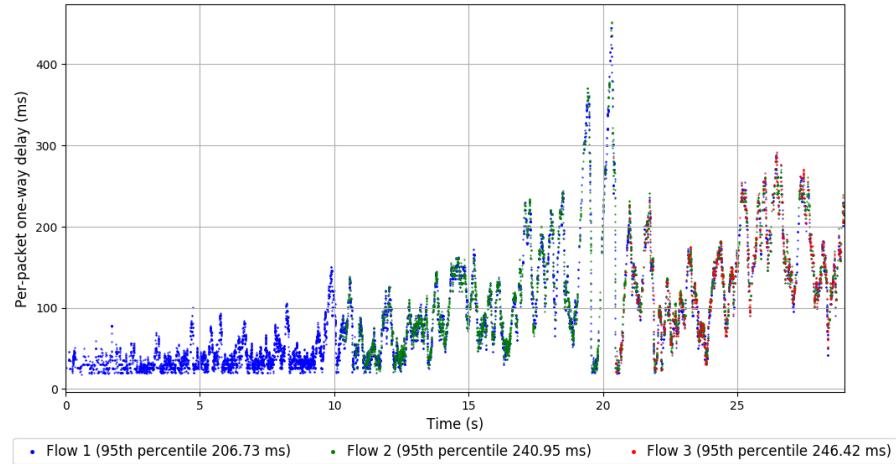
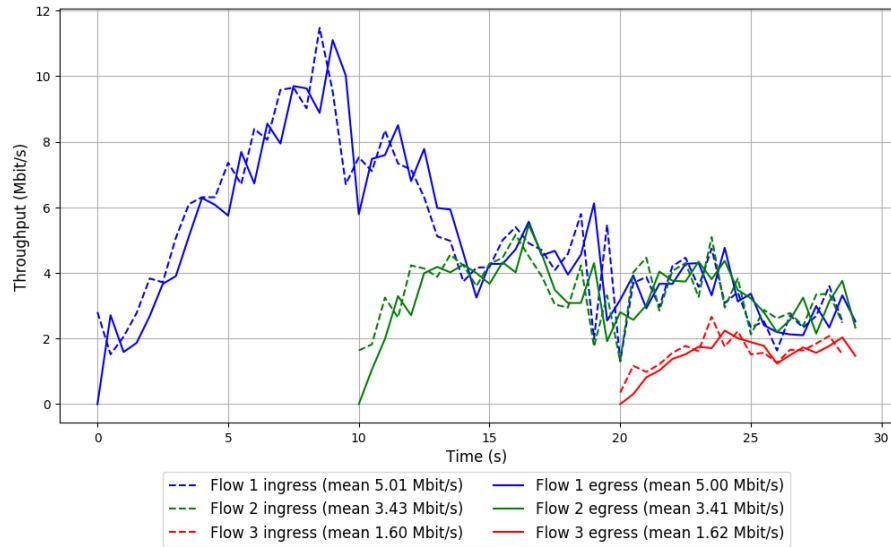
Figure is missing

```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-02-05 05:38:56
End at: 2019-02-05 05:39:26
Local clock offset: -1.527 ms
Remote clock offset: -4.029 ms

# Below is generated by plot.py at 2019-02-05 07:09:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 230.393 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 206.729 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 240.948 ms
Loss rate: 0.70%
-- Flow 3:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 246.419 ms
Loss rate: 2.30%
```

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 2: Report of Indigo-MusesC3 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Indigo-MusesC3

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 3: Report of Indigo-MusesC3 — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Indigo-MusesC5

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/indigo-musesc5-1.log

Run 1: Report of Indigo-MusesC5 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Indigo-MusesC5

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 2: Report of Indigo-MusesC5 — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Indigo-MusesC5

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 3: Report of Indigo-MusesC5 — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Indigo-MusesD

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 1: Report of Indigo-MusesD — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Indigo-MusesD

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 2: Report of Indigo-MusesD — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Indigo-MusesD

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 3: Report of Indigo-MusesD — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Indigo-MusesT

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 1: Report of Indigo-MusesT — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Indigo-MusesT

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 2: Report of Indigo-MusesT — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Indigo-MusesT

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ind

Run 3: Report of Indigo-MusesT — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/led

Run 1: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/led

Run 2: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/led

Run 3: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/pcc

Run 1: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/pcc

Run 2: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/pcc

Run 3: Report of PCC-Allegro — Data Link

Figure is missing

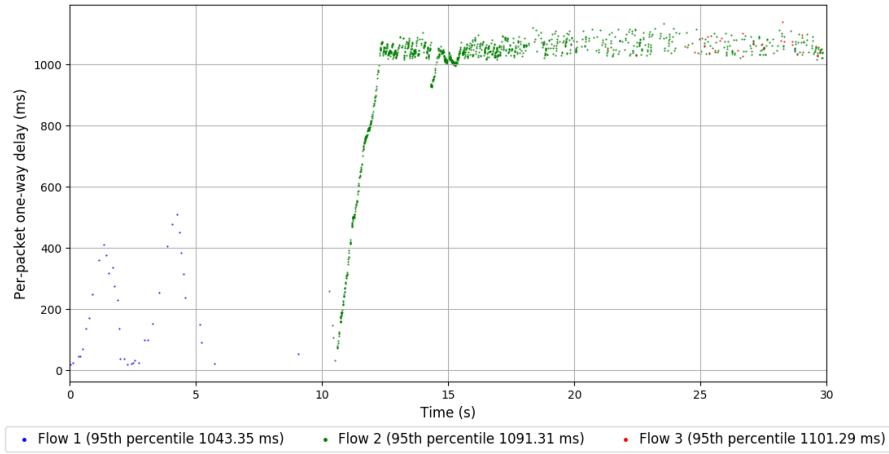
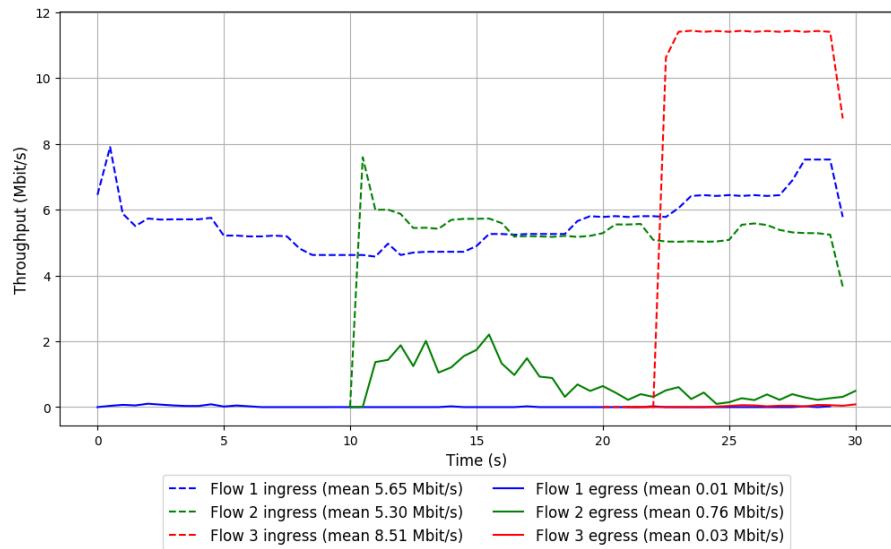
Figure is missing

```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-05 05:50:44
End at: 2019-02-05 05:51:14
Local clock offset: 0.647 ms
Remote clock offset: -4.161 ms

# Below is generated by plot.py at 2019-02-05 07:09:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 1091.099 ms
Loss rate: 95.64%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 1043.347 ms
Loss rate: 99.78%
-- Flow 2:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 1091.312 ms
Loss rate: 85.79%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 1101.294 ms
Loss rate: 99.68%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/pcc

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/pcc

Run 3: Report of PCC-Expr — Data Link

Figure is missing

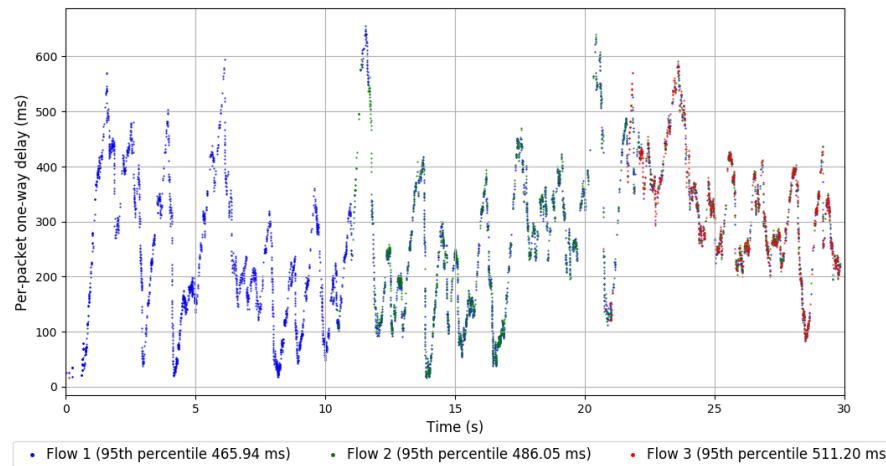
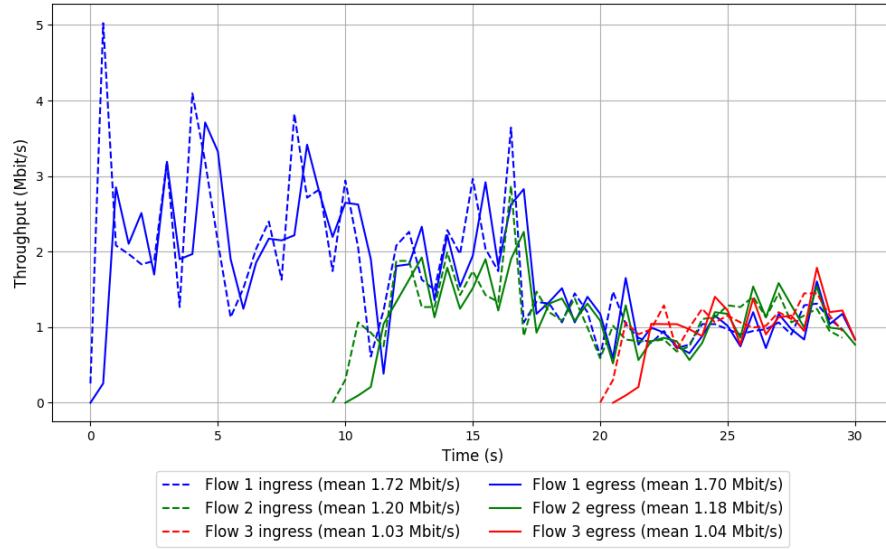
Figure is missing

```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-02-05 05:47:16
End at: 2019-02-05 05:47:46
Local clock offset: 0.847 ms
Remote clock offset: -4.76 ms

# Below is generated by plot.py at 2019-02-05 07:09:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 480.933 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 465.937 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 486.051 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 511.204 ms
Loss rate: 4.17%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/qui

Run 2: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/qui

Run 3: Report of QUIC Cubic — Data Link

Figure is missing

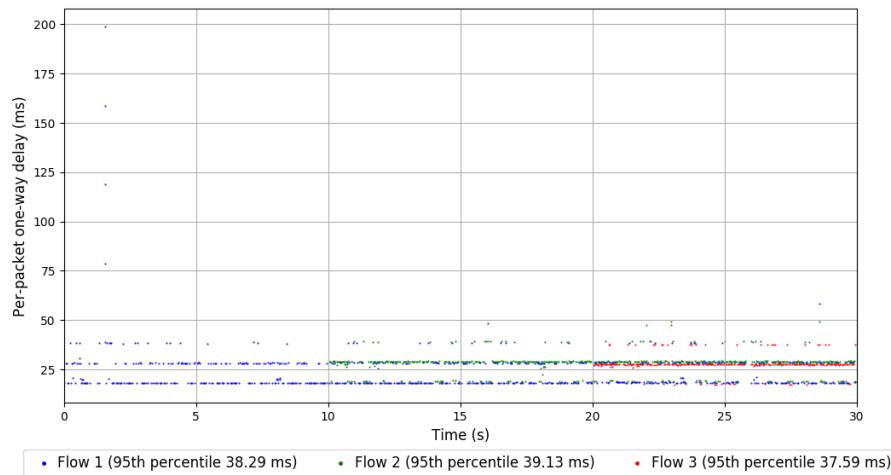
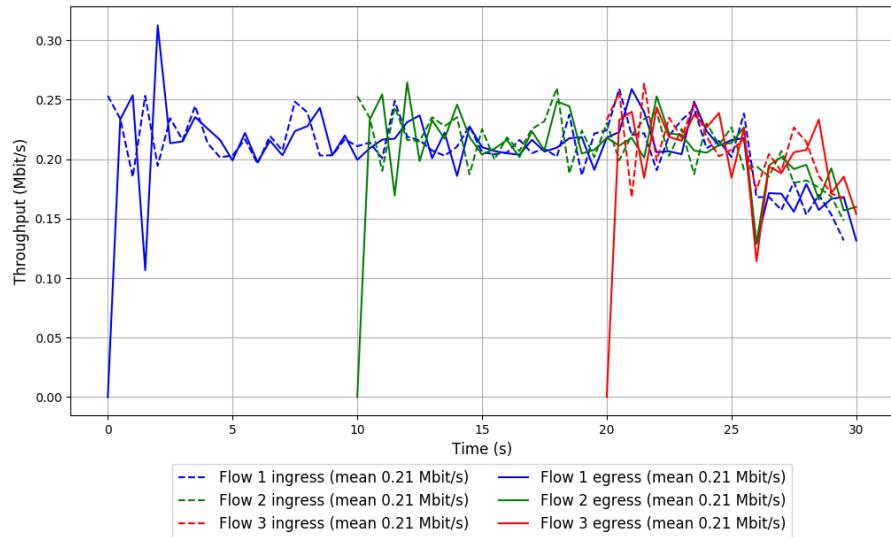
Figure is missing

Run 1: Statistics of SCReAM

```
Start at: 2019-02-05 05:42:28
End at: 2019-02-05 05:42:58
Local clock offset: -1.525 ms
Remote clock offset: -4.385 ms

# Below is generated by plot.py at 2019-02-05 07:09:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 38.305 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.294 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.132 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 37.595 ms
Loss rate: 2.28%
```

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/scr

Run 2: Report of SCReAM — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of SCReAM

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/scr

Run 3: Report of SCReAM — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Sprout

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/spr

Run 1: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Sprout

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/spr

Run 2: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Sprout

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/spr

Run 3: Report of Sprout — Data Link

Figure is missing

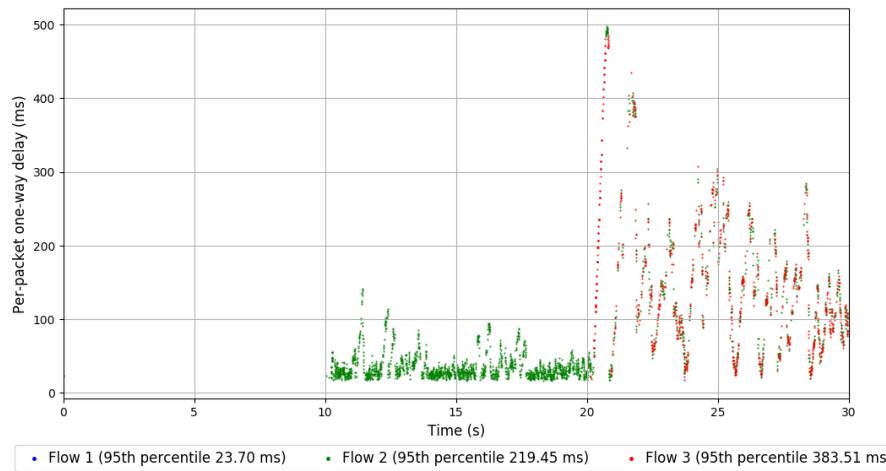
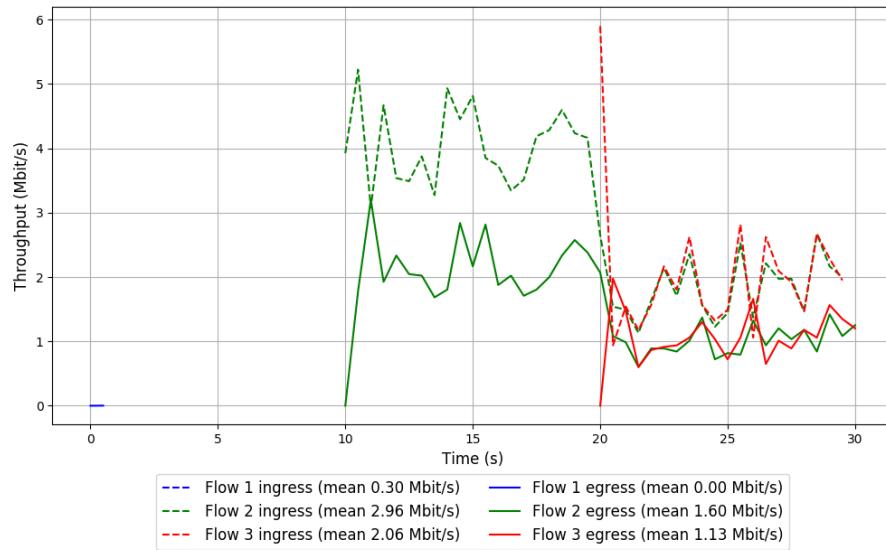
Figure is missing

Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-05 05:48:26
End at: 2019-02-05 05:48:56
Local clock offset: 0.787 ms
Remote clock offset: -4.909 ms

# Below is generated by plot.py at 2019-02-05 07:09:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 259.909 ms
Loss rate: 45.95%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 23.697 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 219.454 ms
Loss rate: 46.23%
-- Flow 3:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 383.514 ms
Loss rate: 45.09%
```

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



Run 2: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/tad

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

Figure is missing

Figure is missing

Run 3: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/tad

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

Figure is missing

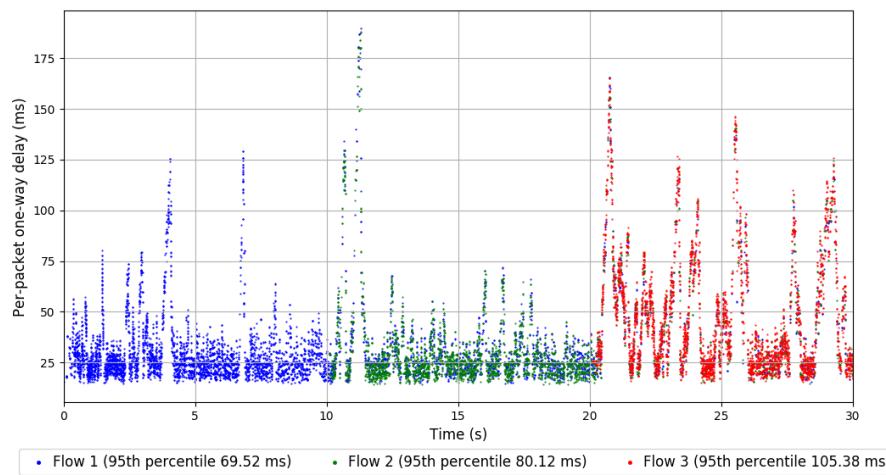
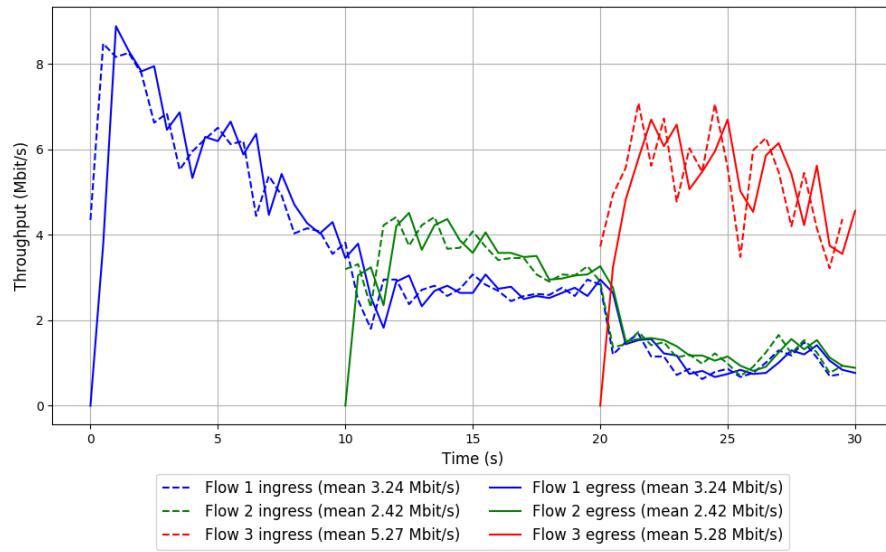
Figure is missing

Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-05 05:43:37
End at: 2019-02-05 05:44:07
Local clock offset: 1.96 ms
Remote clock offset: -4.172 ms

# Below is generated by plot.py at 2019-02-05 07:09:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 87.946 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 69.518 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 80.116 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 105.381 ms
Loss rate: 0.07%
```

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/veg

Run 2: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/veg

Run 3: Report of TCP Vegas — Data Link

Figure is missing

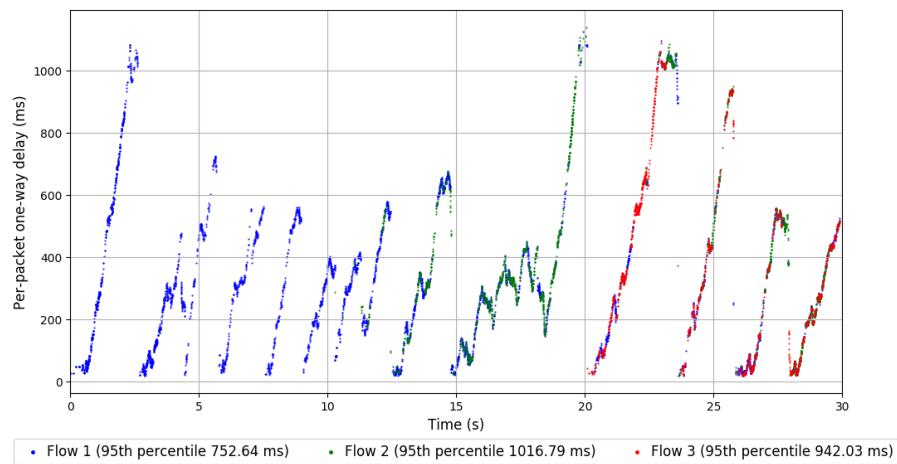
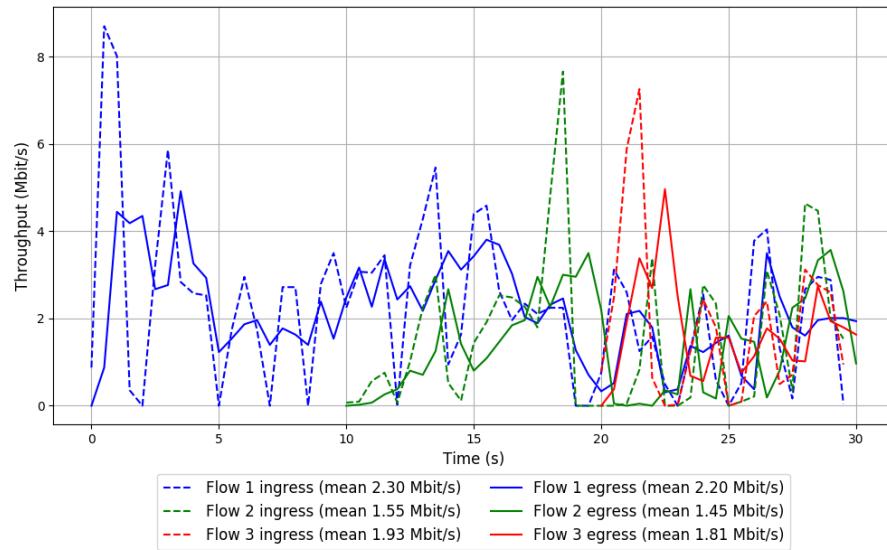
Figure is missing

Run 1: Statistics of Verus

```
Start at: 2019-02-05 05:46:06
End at: 2019-02-05 05:46:36
Local clock offset: -1.251 ms
Remote clock offset: -4.631 ms

# Below is generated by plot.py at 2019-02-05 07:09:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 929.415 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 752.637 ms
Loss rate: 2.98%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 1016.795 ms
Loss rate: 7.62%
-- Flow 3:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 942.029 ms
Loss rate: 5.70%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ver

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/ver

Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/vivace

Run 1: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/vivace

Run 2: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/vivace

Run 3: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/web

Run 1: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/web

Run 2: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2019-02-05T05-36-AWS-India-1-to-India-cellular-3-runs-3-flows/web

Run 3: Report of WebRTC media — Data Link

Figure is missing

Figure is missing