

Pantheon Report

Generated at 2019-03-27 11:33:13 (UTC).

Data path: Colombia cellular on ppp0 (*remote*) → AWS Brazil 2 on ens5 (*local*).

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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

System info:

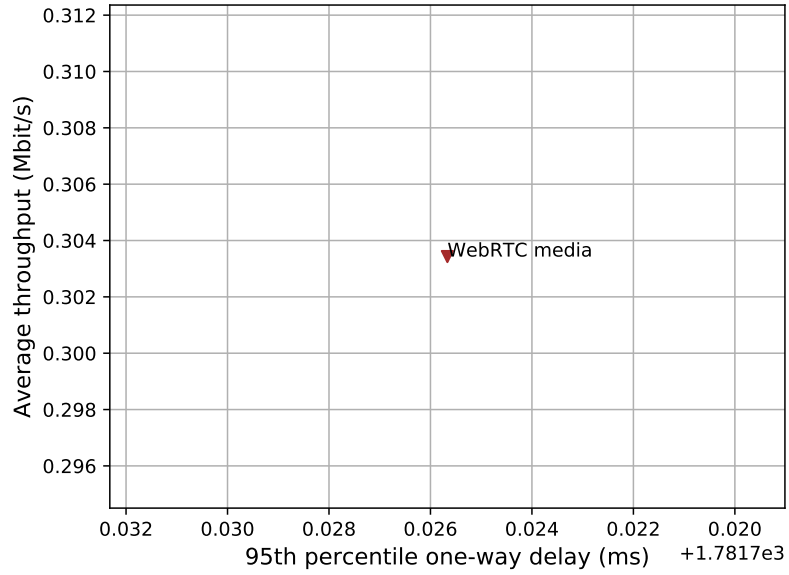
```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

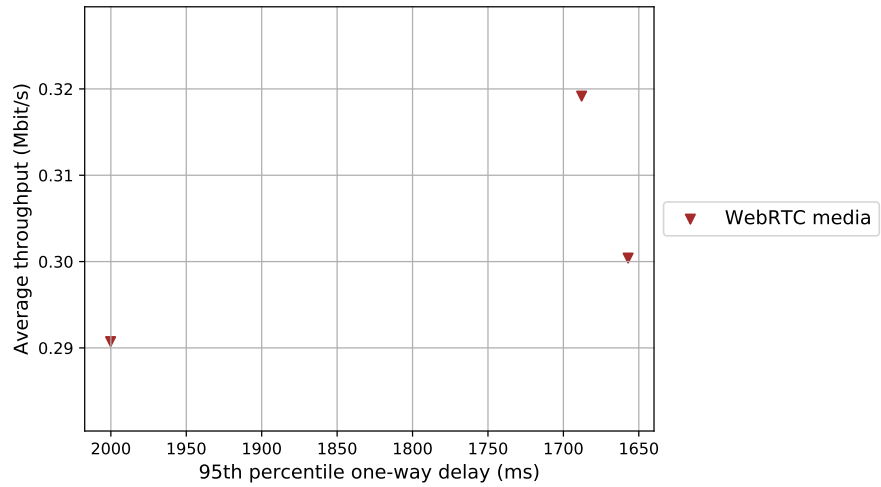
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Colombia cellular to AWS Brazil 2, 3 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Colombia cellular to AWS Brazil 2, 3 runs of 30s each per scheme
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copa	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TCP Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FillP	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FillP-Sheep	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-MusesC3	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-MusesC5	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-MusesD	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indigo-MusesT	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
LEDBAT	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Allegro	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Expr	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sprout	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TaoVA-100x	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TCP Vegas	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Verus	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PCC-Vivace	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WebRTC media	3	0.14	0.11	0.06	1743.89	1785.56	1606.03	0.77	0.57	7.32

Run 1: Statistics of TCP BBR

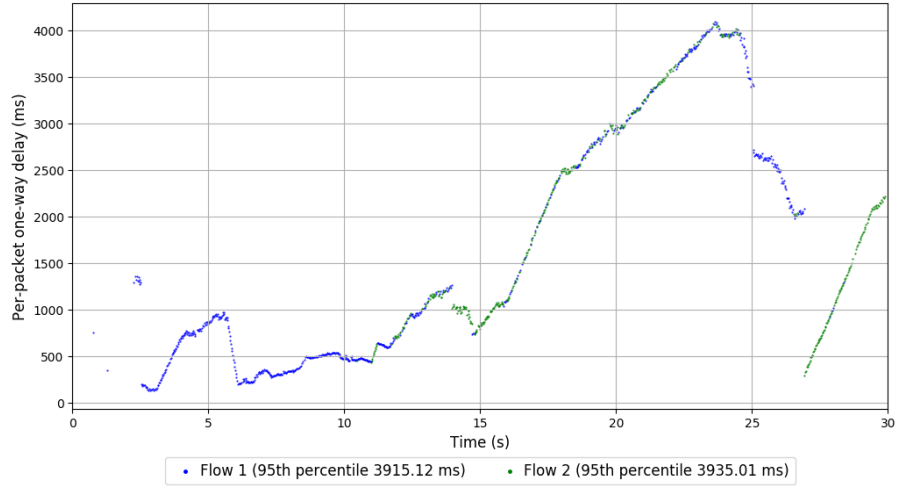
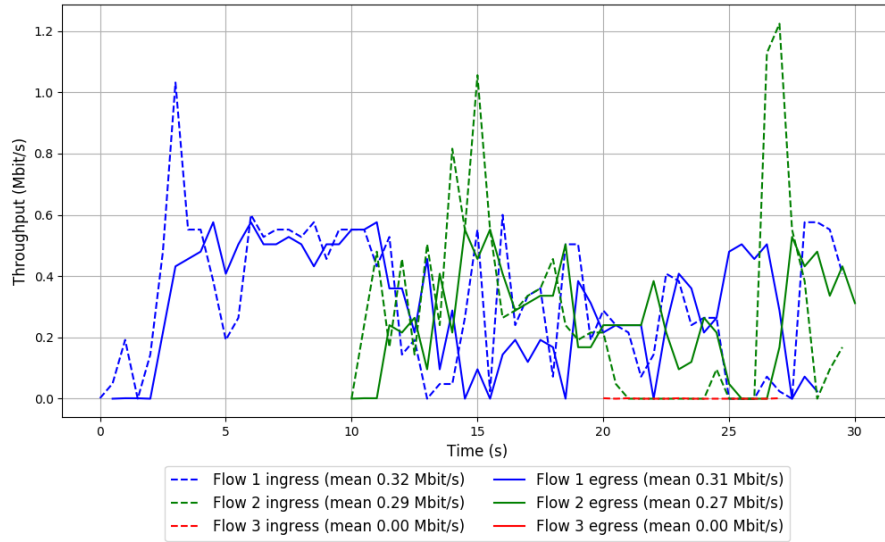
Start at: 2019-03-27 10:37:49

End at: 2019-03-27 10:38:19

Local clock offset: -5.195 ms

Remote clock offset: -5.437 ms

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

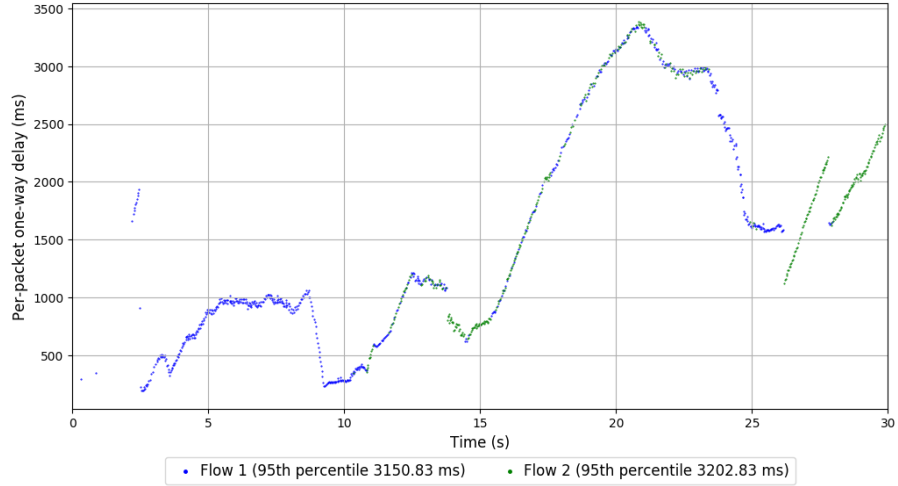
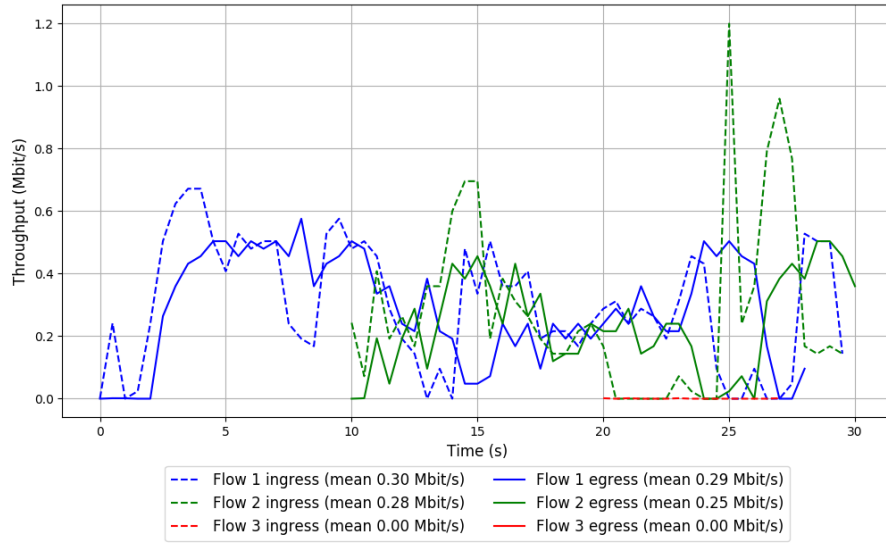
Start at: 2019-03-27 11:04:22

End at: 2019-03-27 11:04:52

Local clock offset: -3.933 ms

Remote clock offset: 7.375 ms

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2019-03-27T10-13-Colombia-cellular-to-AWS-Brazil-2-3-runs-3-flows

Run 3: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Copa

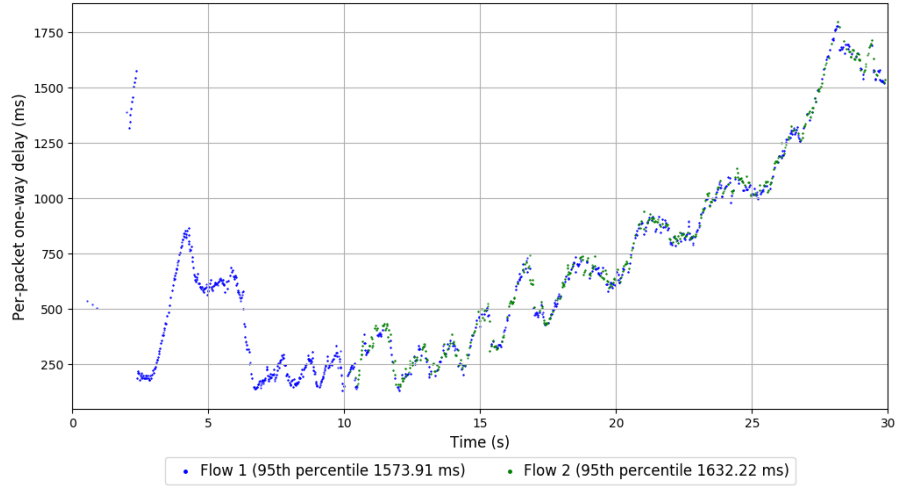
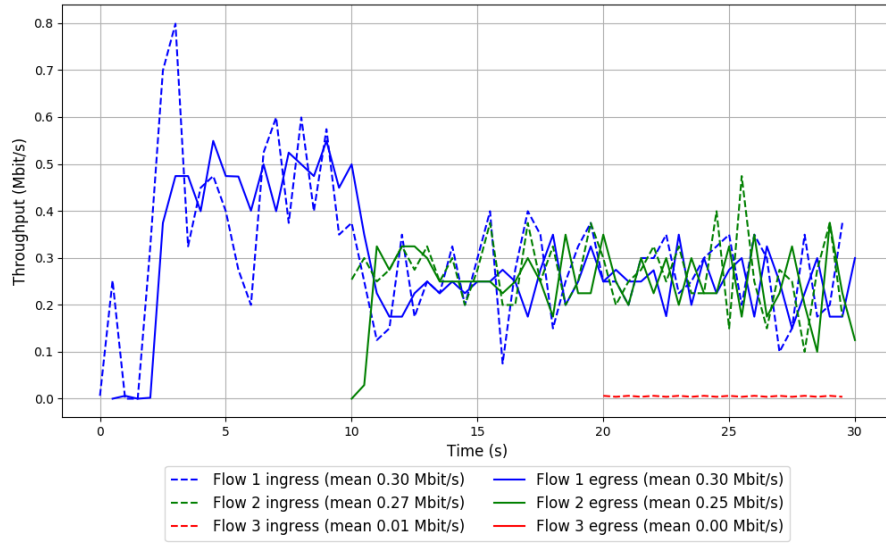
Start at: 2019-03-27 10:34:03

End at: 2019-03-27 10:34:33

Local clock offset: -4.368 ms

Remote clock offset: -5.246 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

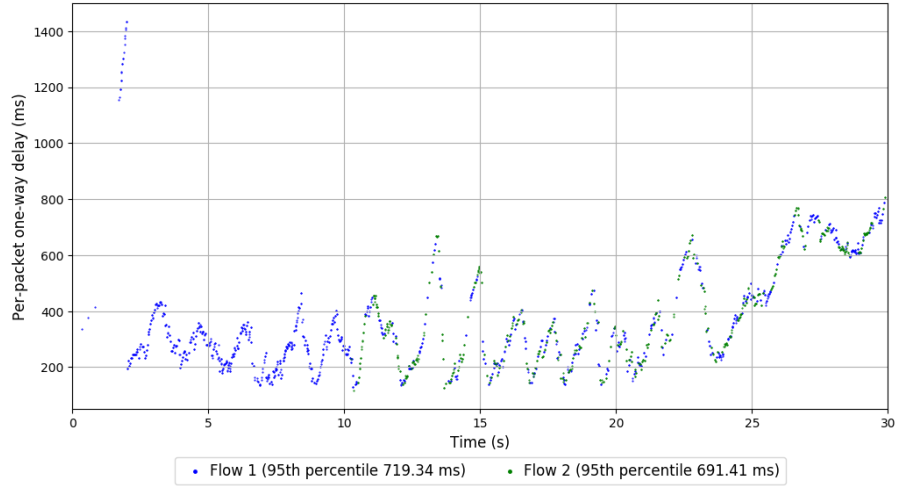
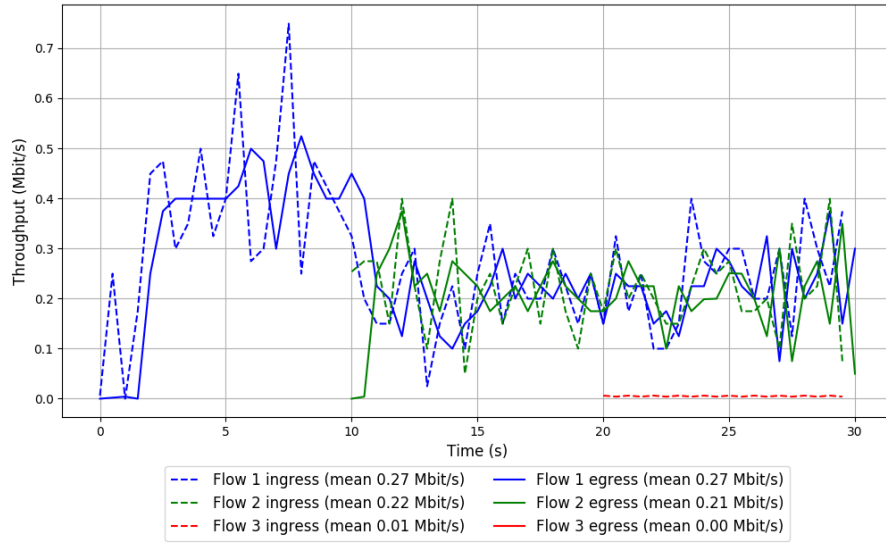
Start at: 2019-03-27 11:00:23

End at: 2019-03-27 11:00:53

Local clock offset: -4.764 ms

Remote clock offset: 5.482 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

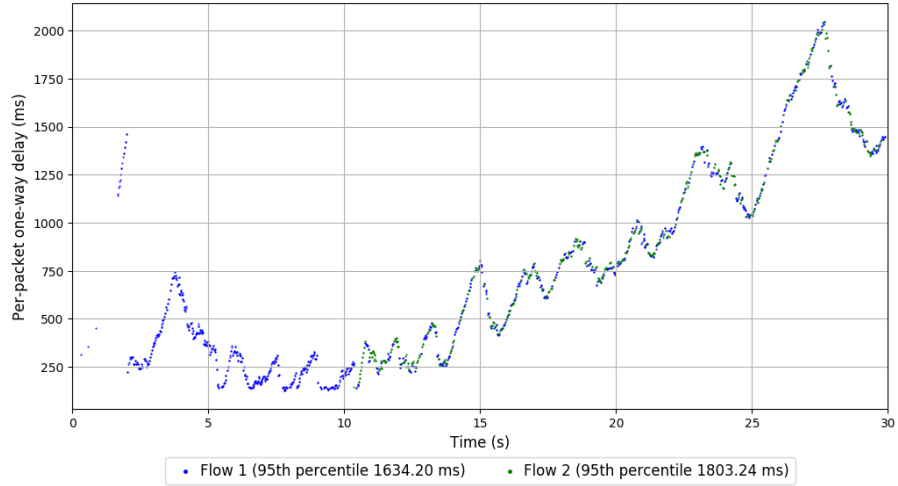
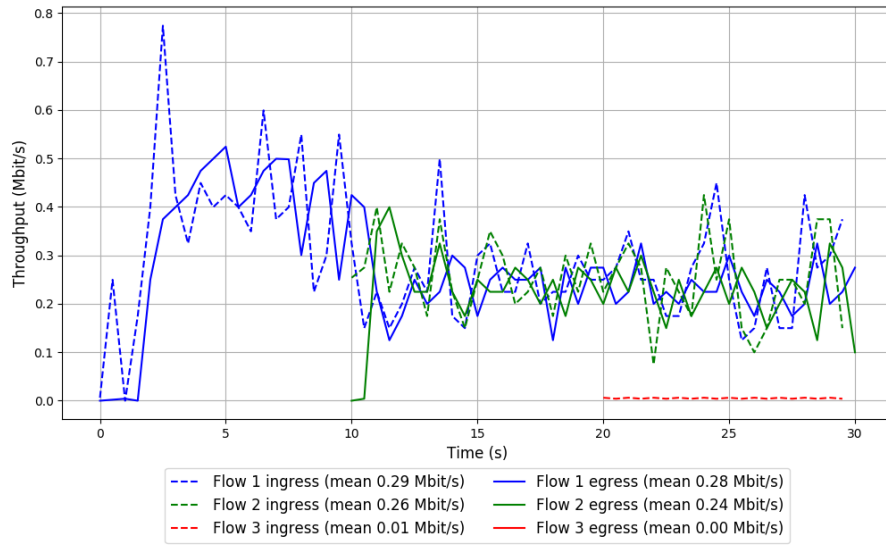
Start at: 2019-03-27 11:26:39

End at: 2019-03-27 11:27:09

Local clock offset: -2.873 ms

Remote clock offset: 6.797 ms

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

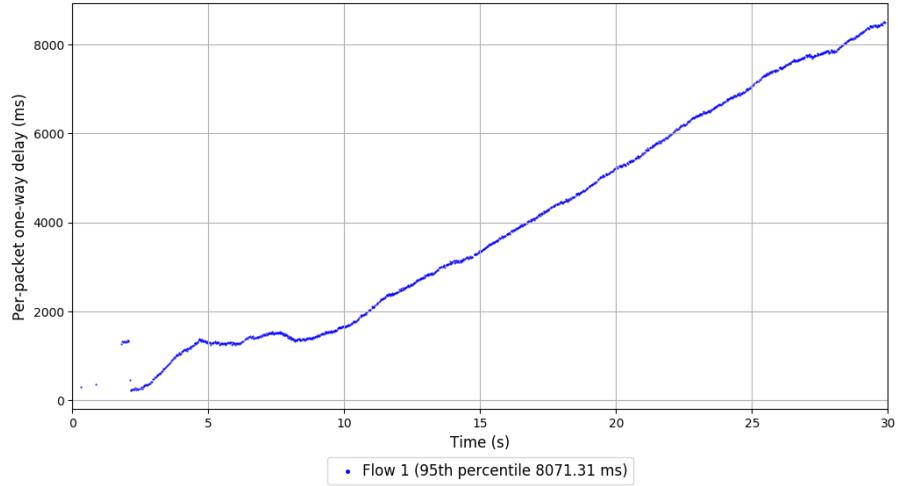
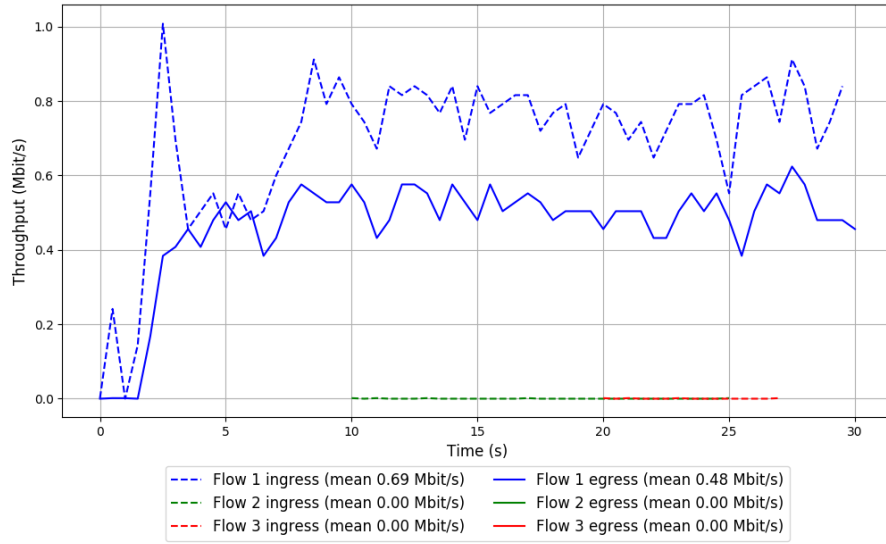
Start at: 2019-03-27 10:32:50

End at: 2019-03-27 10:33:20

Local clock offset: -4.383 ms

Remote clock offset: -5.077 ms

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

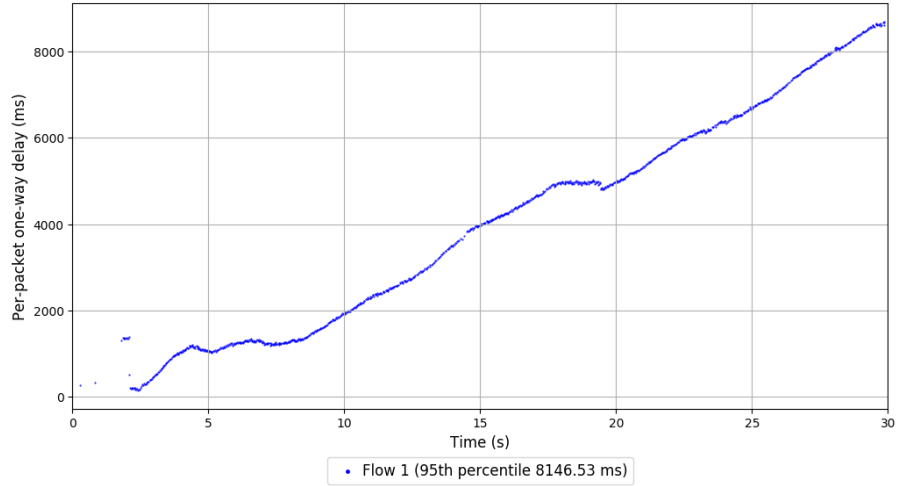
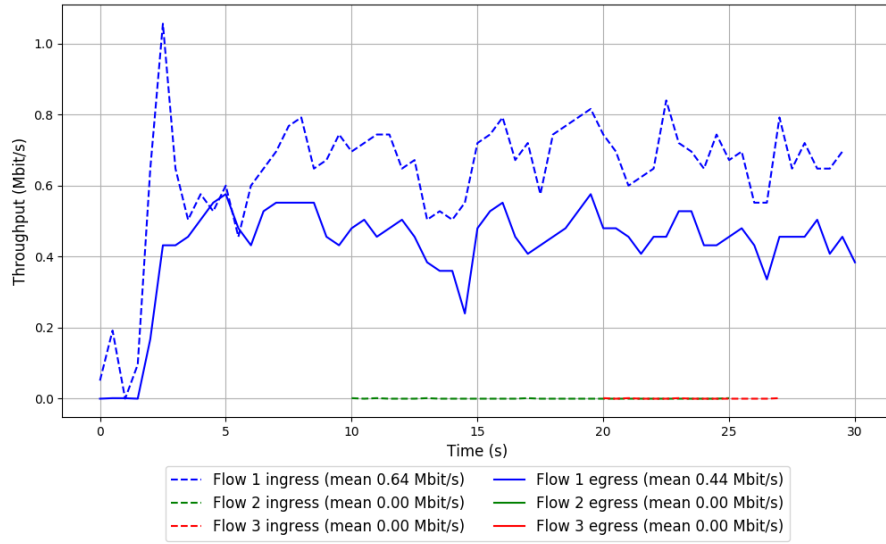
Start at: 2019-03-27 10:59:09

End at: 2019-03-27 10:59:39

Local clock offset: -4.761 ms

Remote clock offset: 1.628 ms

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

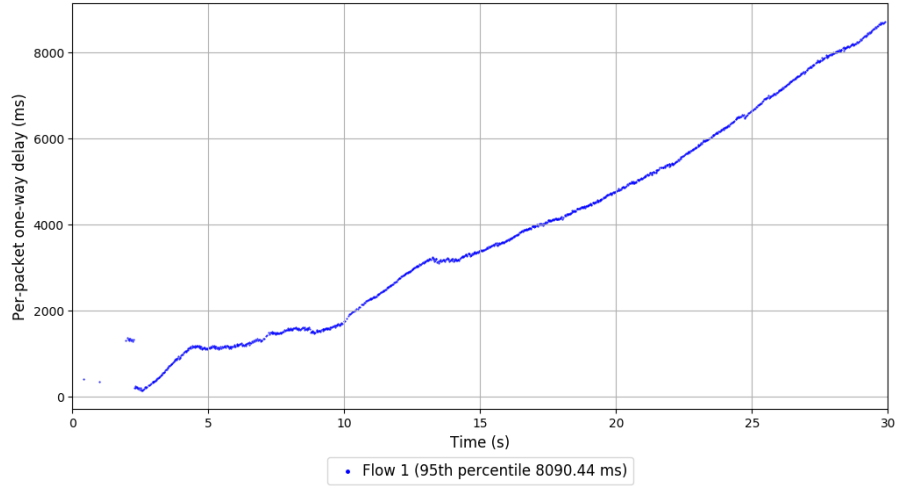
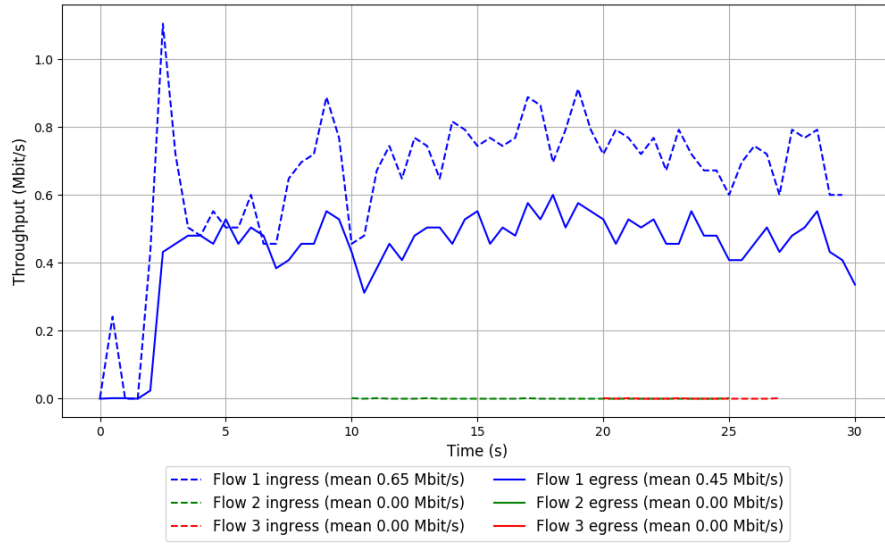
Start at: 2019-03-27 11:25:26

End at: 2019-03-27 11:25:56

Local clock offset: -3.783 ms

Remote clock offset: 5.734 ms

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

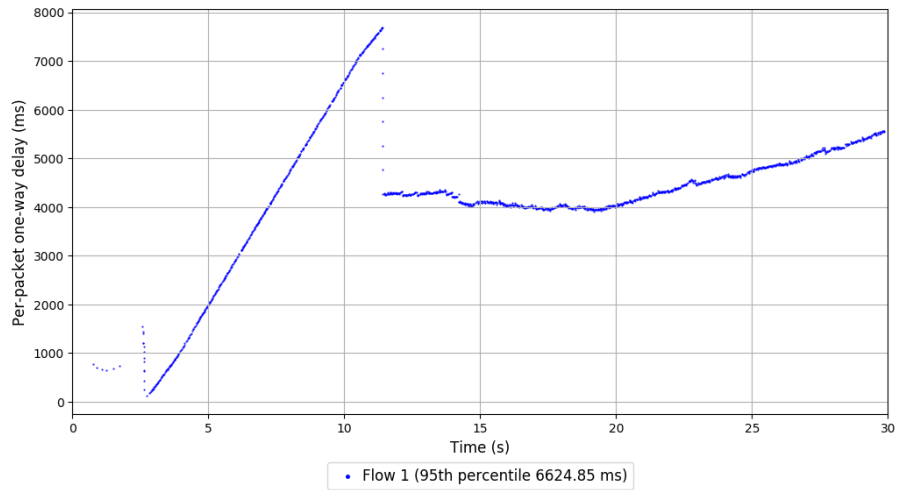
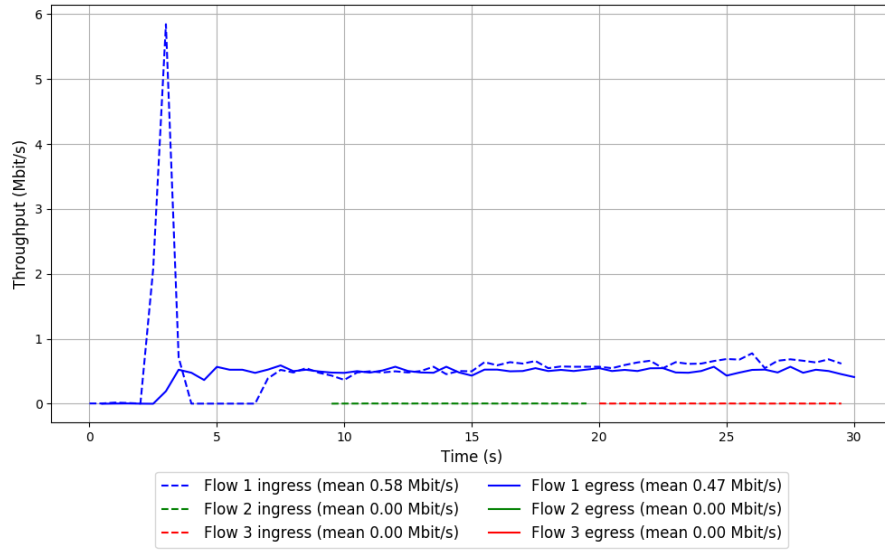
Start at: 2019-03-27 10:19:17

End at: 2019-03-27 10:19:47

Local clock offset: -3.855 ms

Remote clock offset: -5.238 ms

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

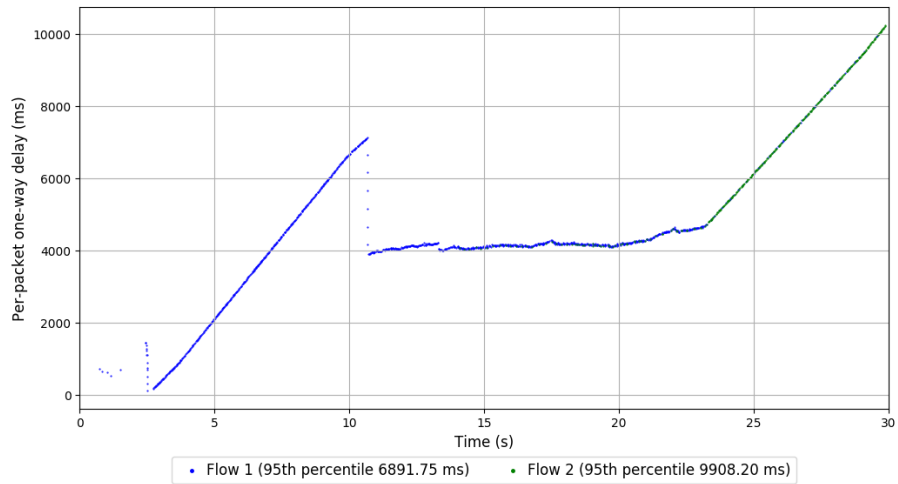
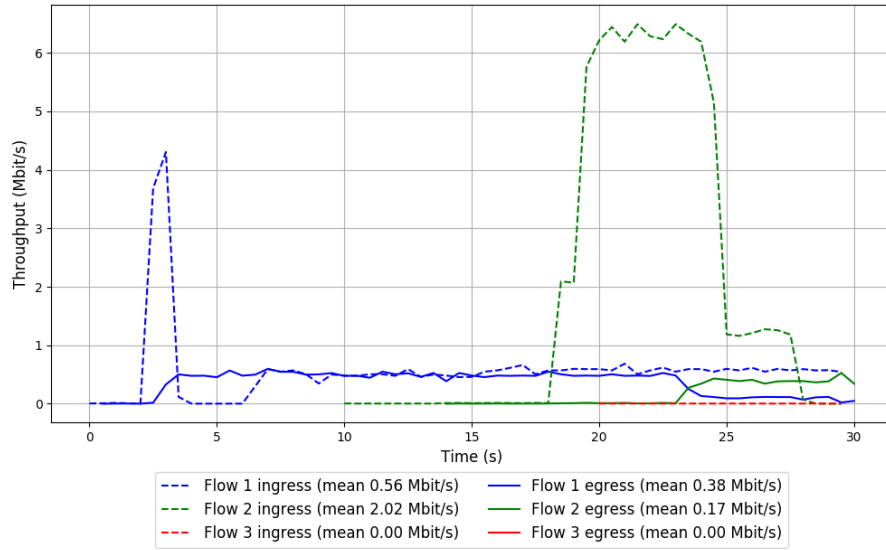
Start at: 2019-03-27 10:45:14

End at: 2019-03-27 10:45:44

Local clock offset: -4.497 ms

Remote clock offset: -5.627 ms

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

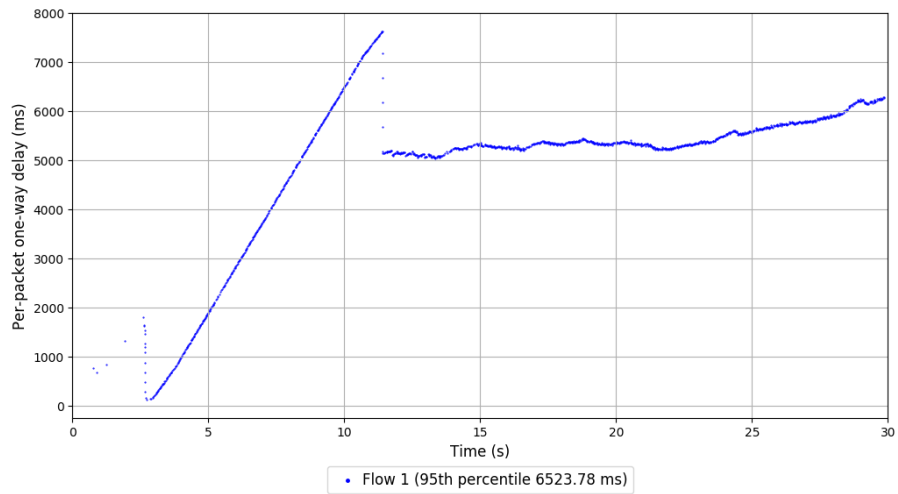
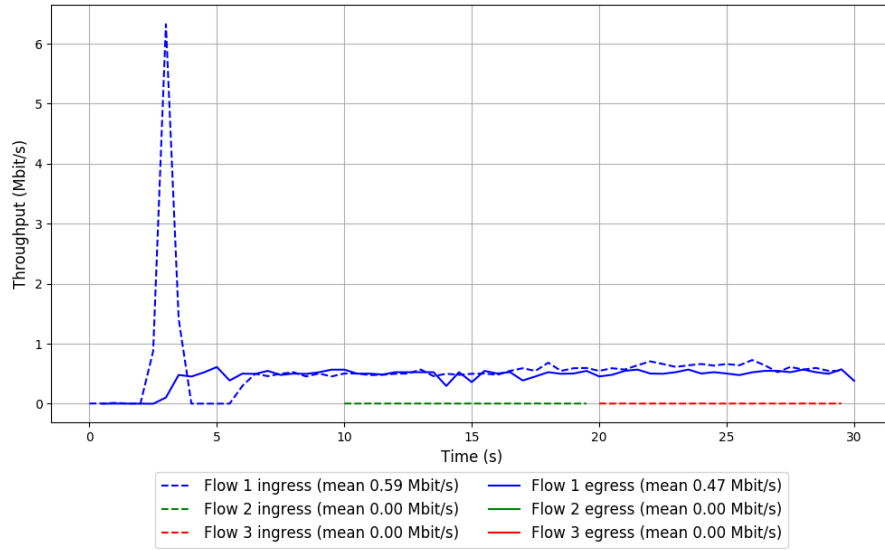
Start at: 2019-03-27 11:11:51

End at: 2019-03-27 11:12:21

Local clock offset: -4.642 ms

Remote clock offset: 3.266 ms

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

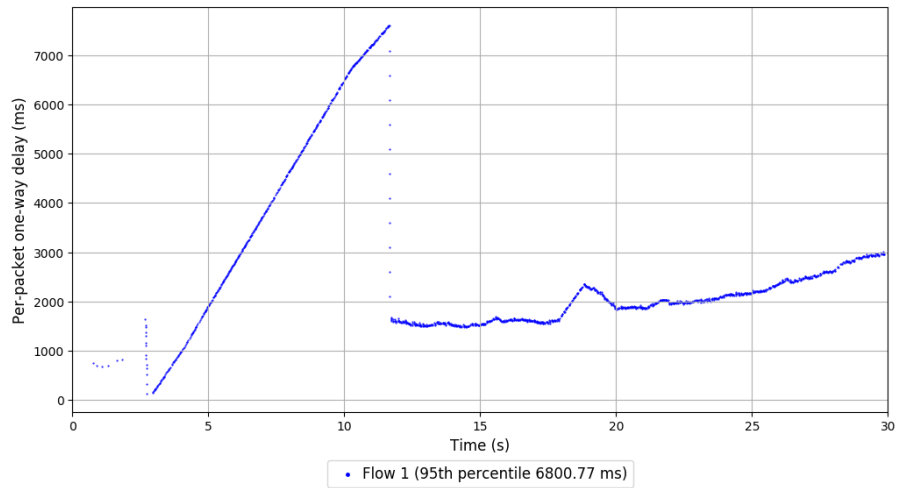
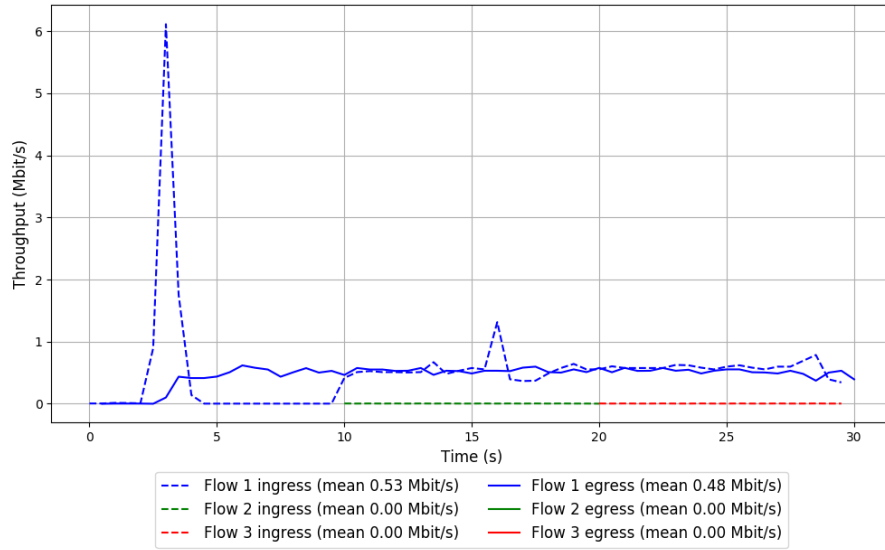
Start at: 2019-03-27 10:22:59

End at: 2019-03-27 10:23:29

Local clock offset: -4.799 ms

Remote clock offset: -1.419 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

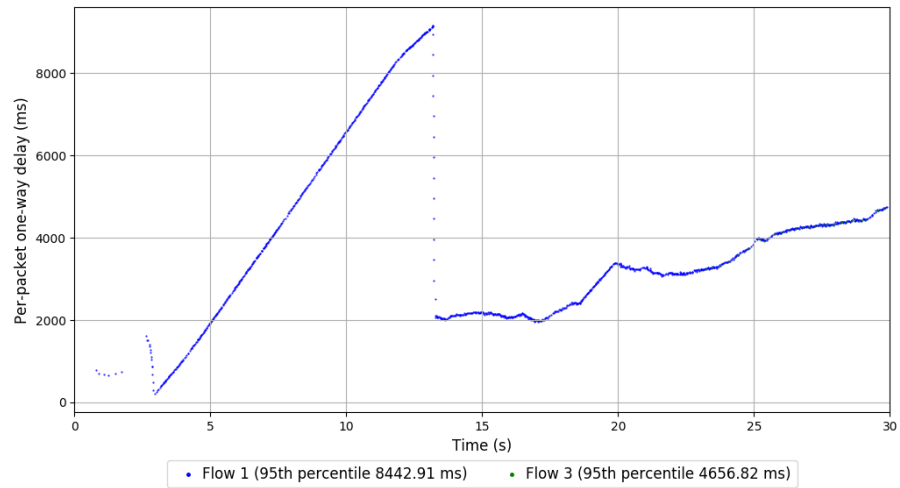
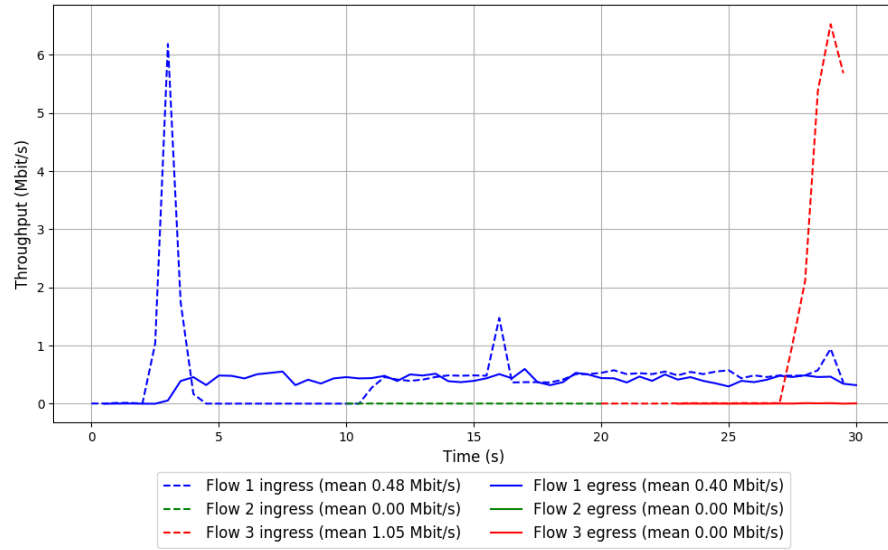
Start at: 2019-03-27 10:49:03

End at: 2019-03-27 10:49:33

Local clock offset: -5.075 ms

Remote clock offset: 0.787 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

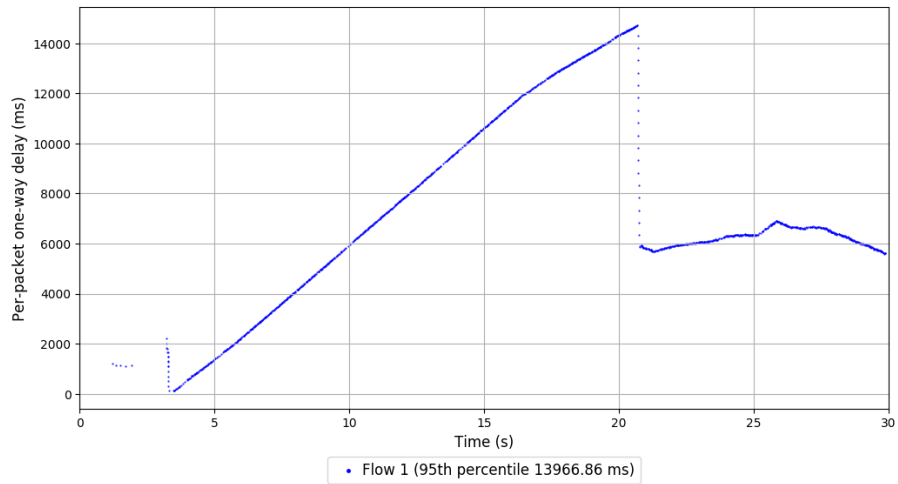
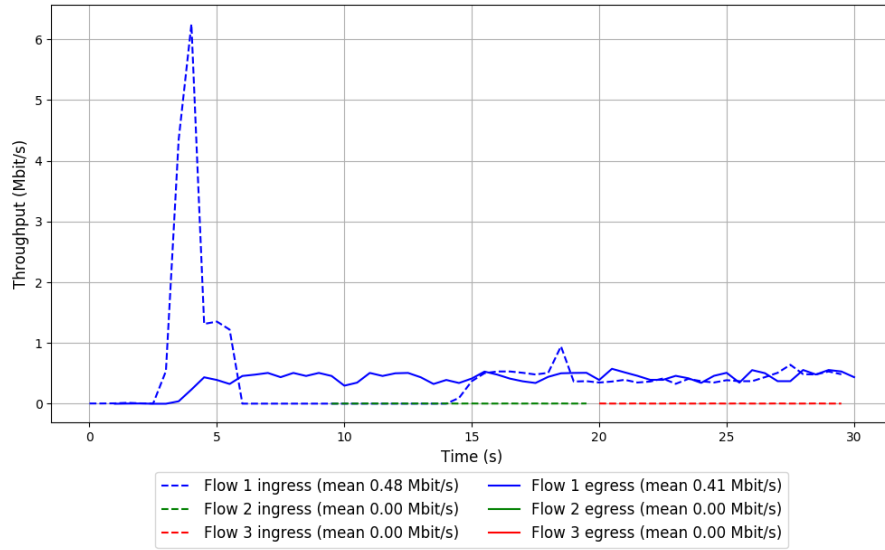
Start at: 2019-03-27 11:15:35

End at: 2019-03-27 11:16:05

Local clock offset: -4.704 ms

Remote clock offset: 6.071 ms

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-27 10:27:53

End at: 2019-03-27 10:28:23

Local clock offset: -4.2 ms

Remote clock offset: -5.797 ms

Run 1: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Indigo

Start at: 2019-03-27 10:53:57

End at: 2019-03-27 10:54:27

Local clock offset: -4.899 ms

Remote clock offset: -0.051 ms

Run 2: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Indigo

Start at: 2019-03-27 11:20:29

End at: 2019-03-27 11:20:59

Local clock offset: -3.329 ms

Remote clock offset: 3.802 ms

Run 3: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of Indigo-MusesC3

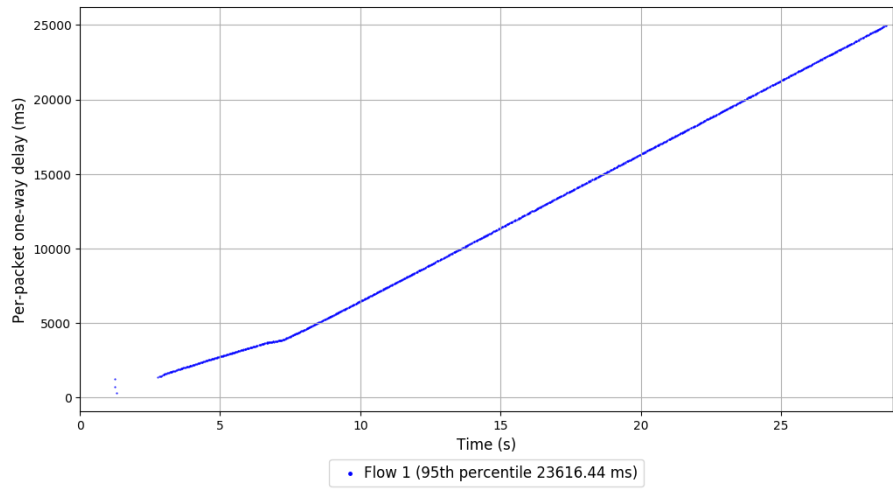
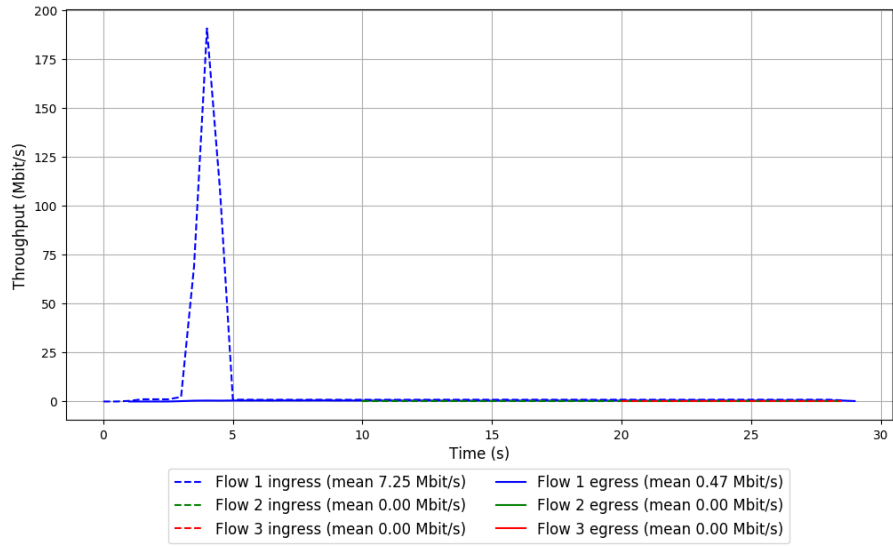
Start at: 2019-03-27 10:35:17

End at: 2019-03-27 10:35:47

Local clock offset: -4.378 ms

Remote clock offset: -6.398 ms

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

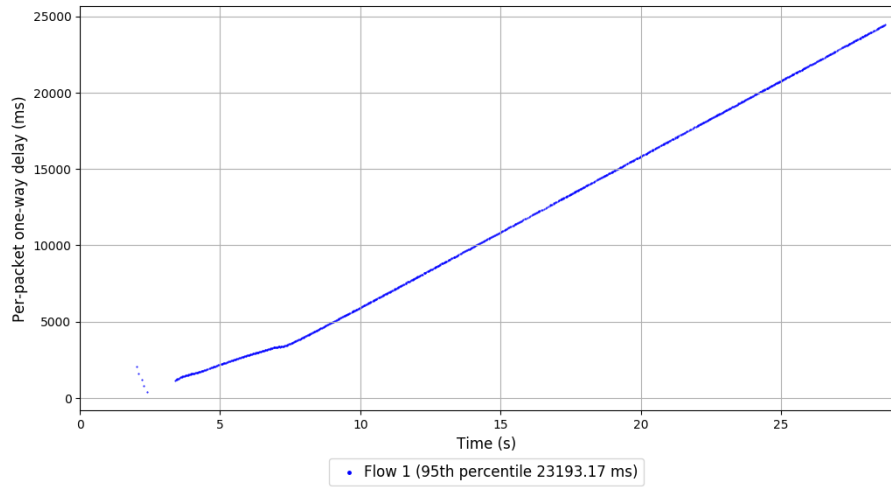
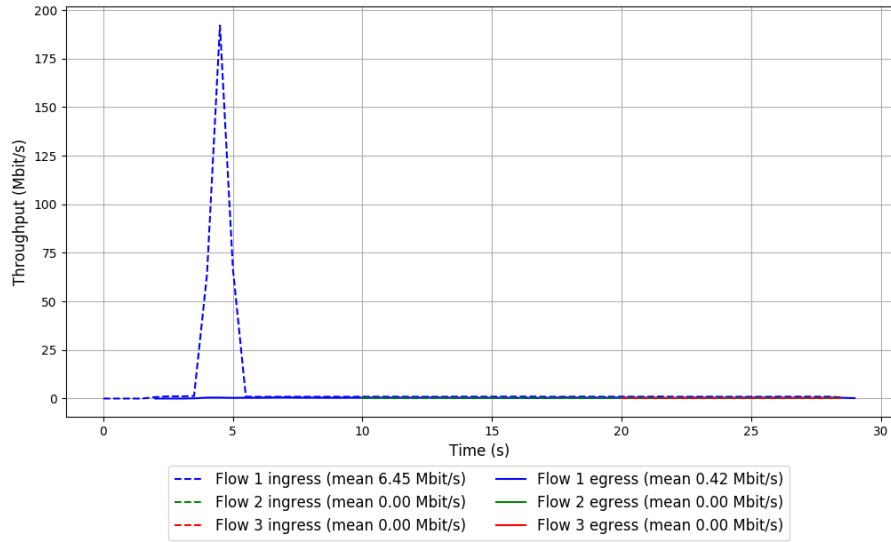
Start at: 2019-03-27 11:01:36

End at: 2019-03-27 11:02:06

Local clock offset: -4.032 ms

Remote clock offset: 6.971 ms

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

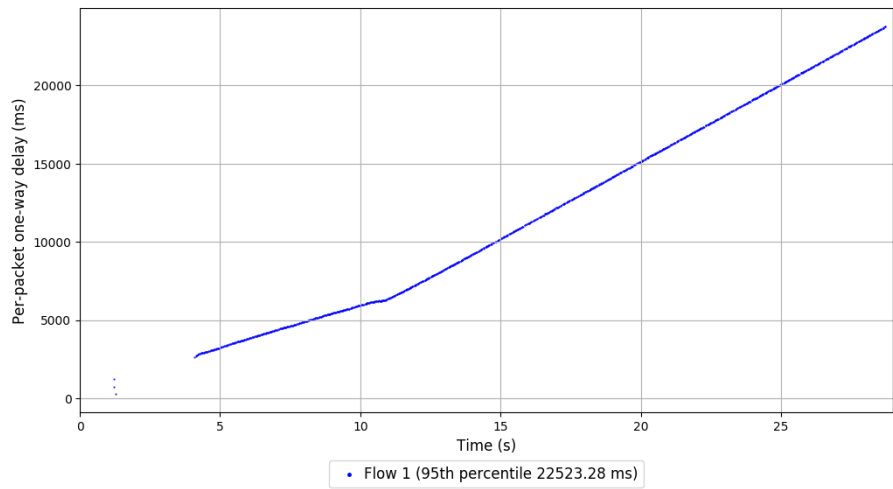
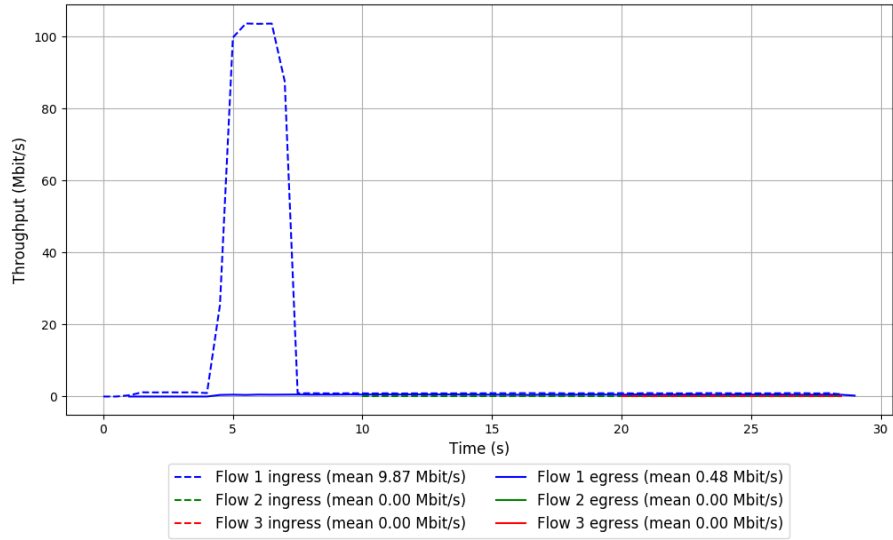
Start at: 2019-03-27 11:27:54

End at: 2019-03-27 11:28:24

Local clock offset: -3.595 ms

Remote clock offset: 2.671 ms

Run 3: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

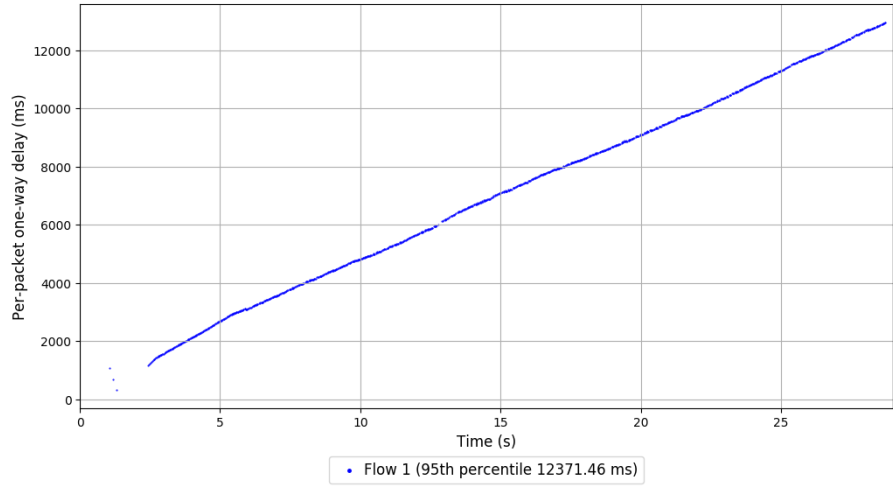
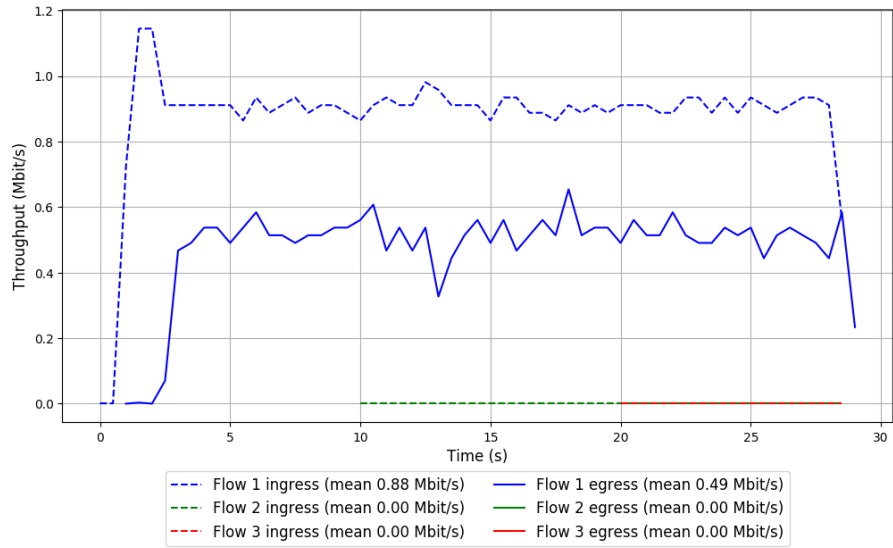
Start at: 2019-03-27 10:26:39

End at: 2019-03-27 10:27:09

Local clock offset: -4.172 ms

Remote clock offset: -1.696 ms

Run 1: Report of Indigo-MusesC5 — Data Link



Run 2: Statistics of Indigo-MusesC5

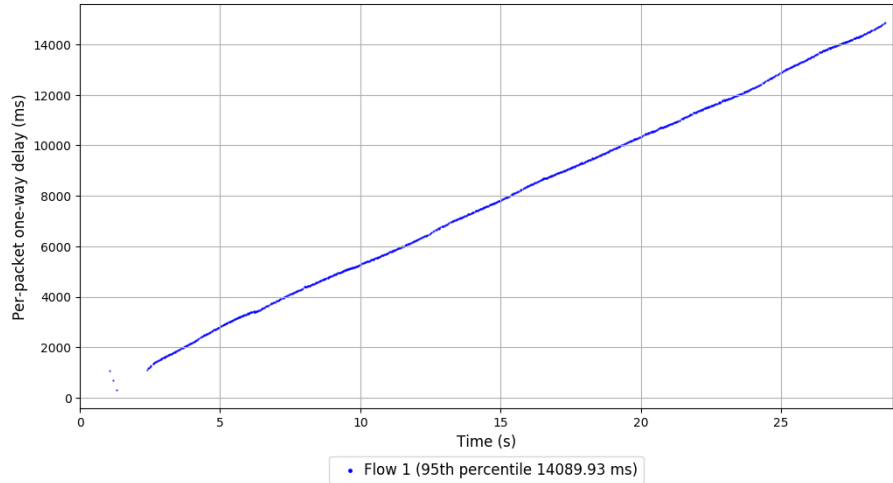
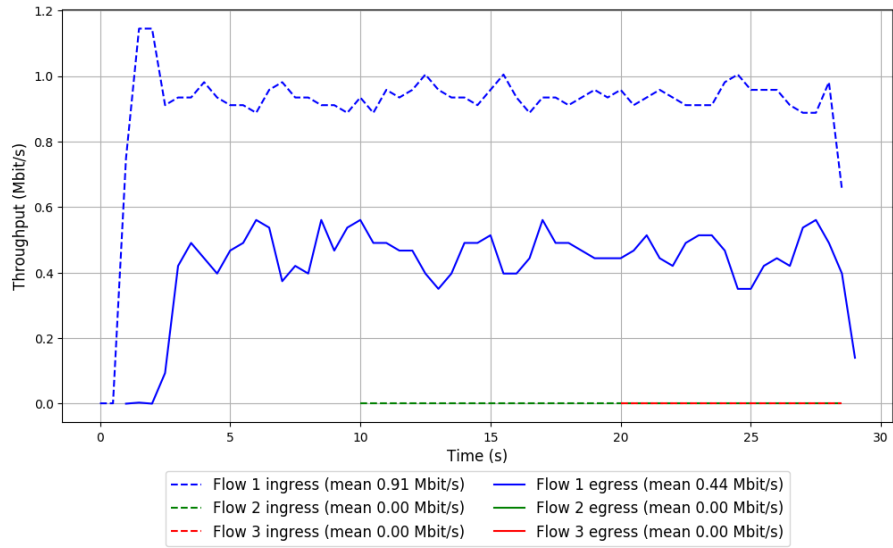
Start at: 2019-03-27 10:52:43

End at: 2019-03-27 10:53:13

Local clock offset: -4.166 ms

Remote clock offset: -0.144 ms

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

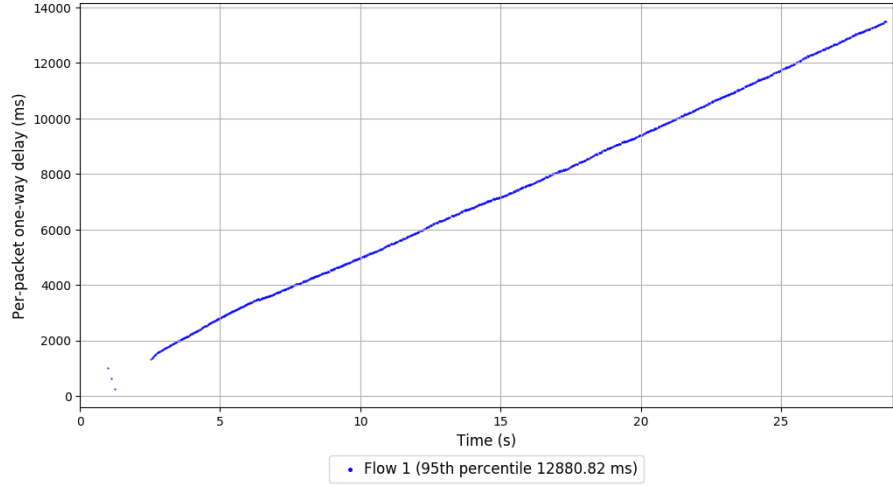
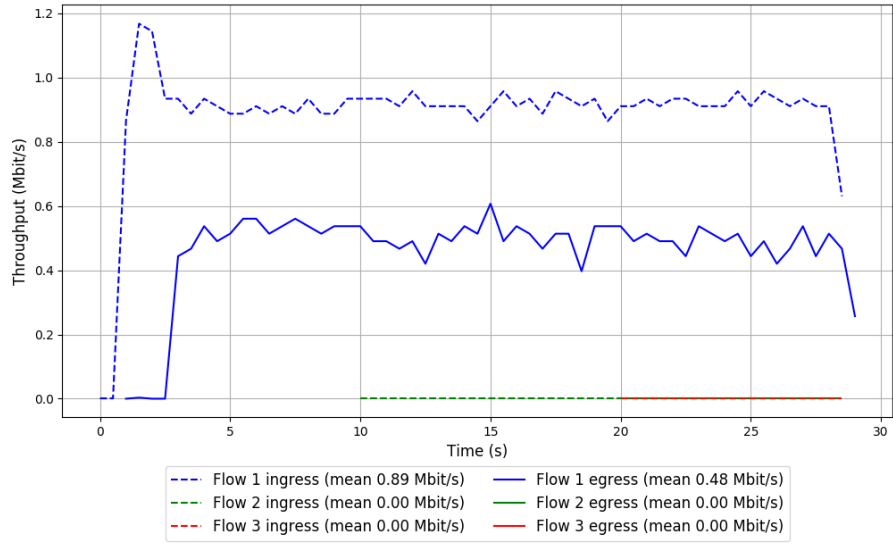
Start at: 2019-03-27 11:19:15

End at: 2019-03-27 11:19:45

Local clock offset: -4.213 ms

Remote clock offset: 3.985 ms

Run 3: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

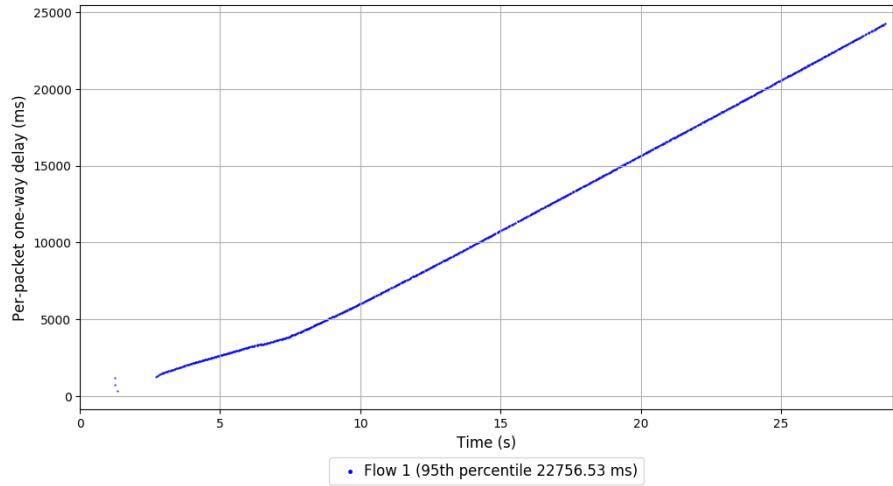
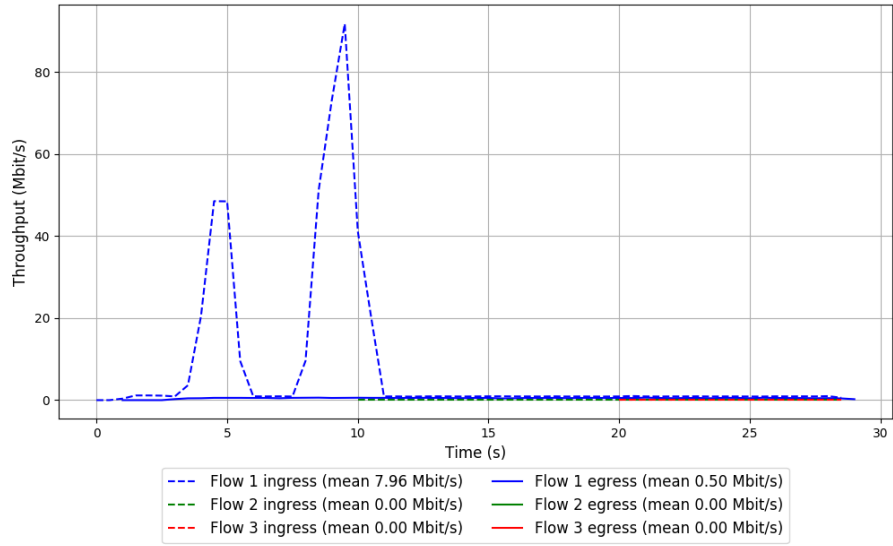
Start at: 2019-03-27 10:30:20

End at: 2019-03-27 10:30:50

Local clock offset: -4.285 ms

Remote clock offset: -1.097 ms

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

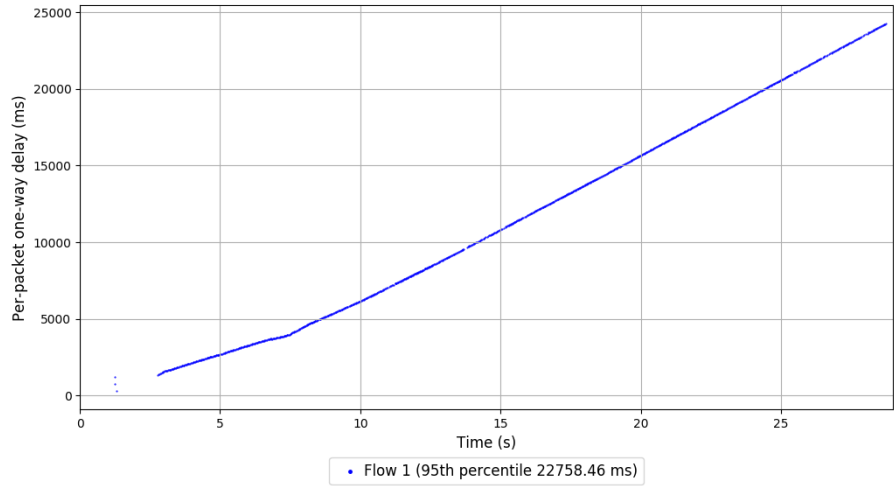
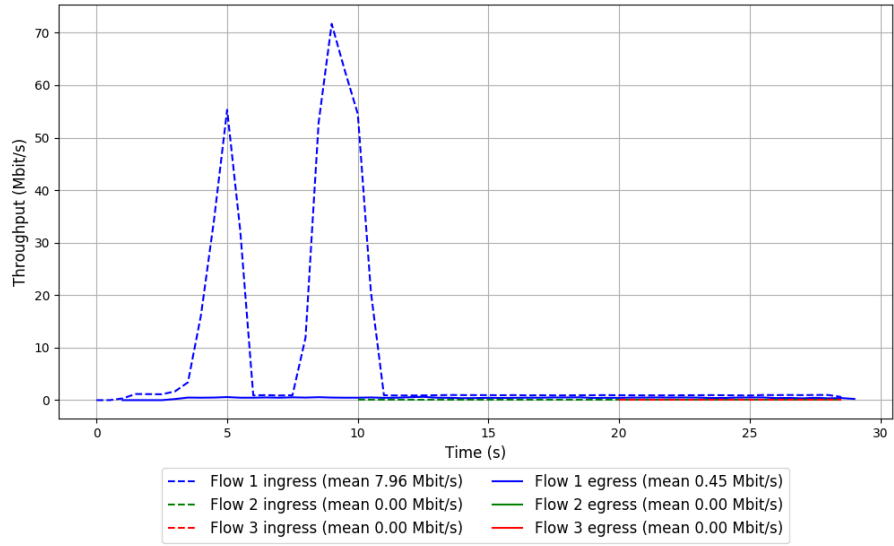
Start at: 2019-03-27 10:56:24

End at: 2019-03-27 10:56:54

Local clock offset: -4.05 ms

Remote clock offset: -0.09 ms

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

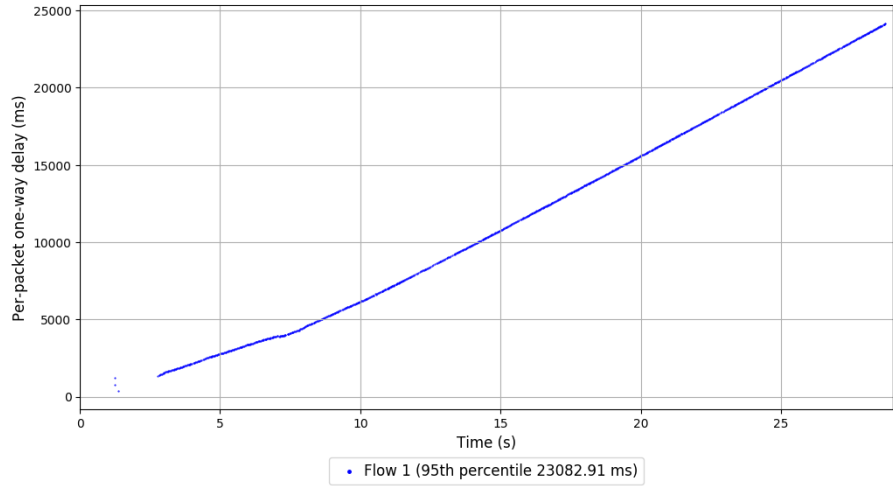
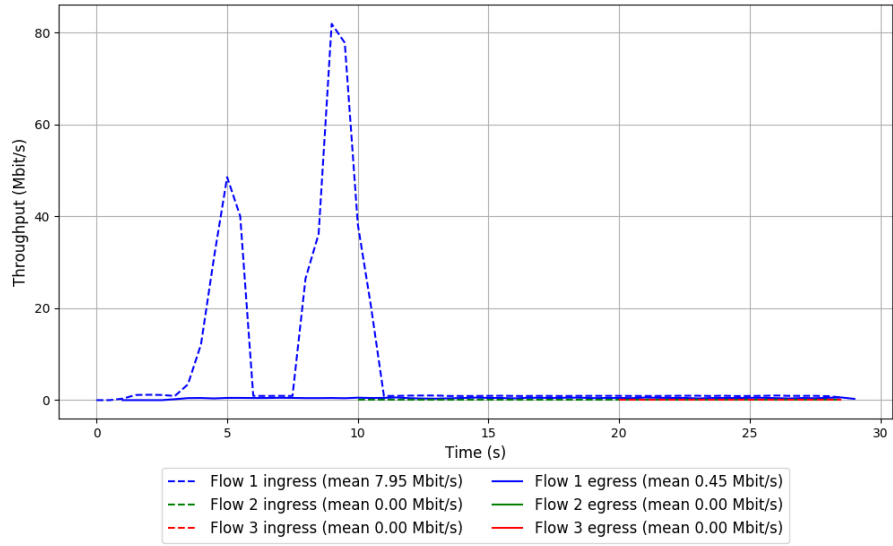
Start at: 2019-03-27 11:22:55

End at: 2019-03-27 11:23:25

Local clock offset: -3.888 ms

Remote clock offset: 2.196 ms

Run 3: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MuseST

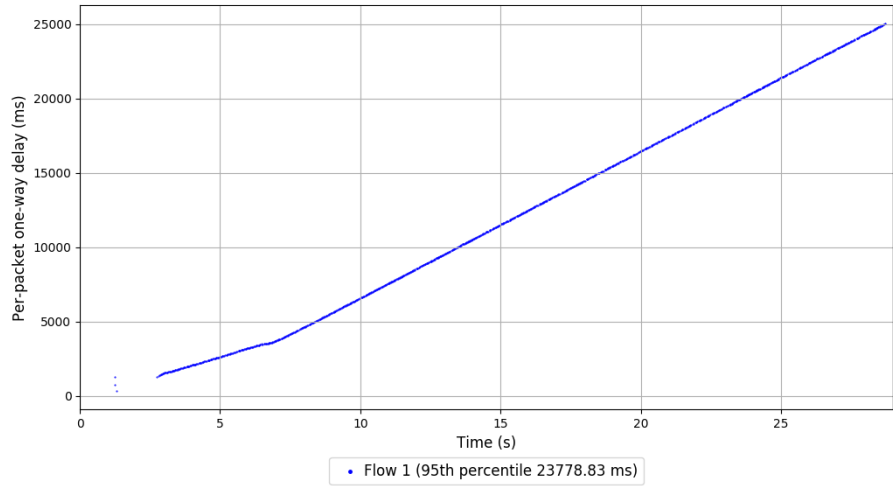
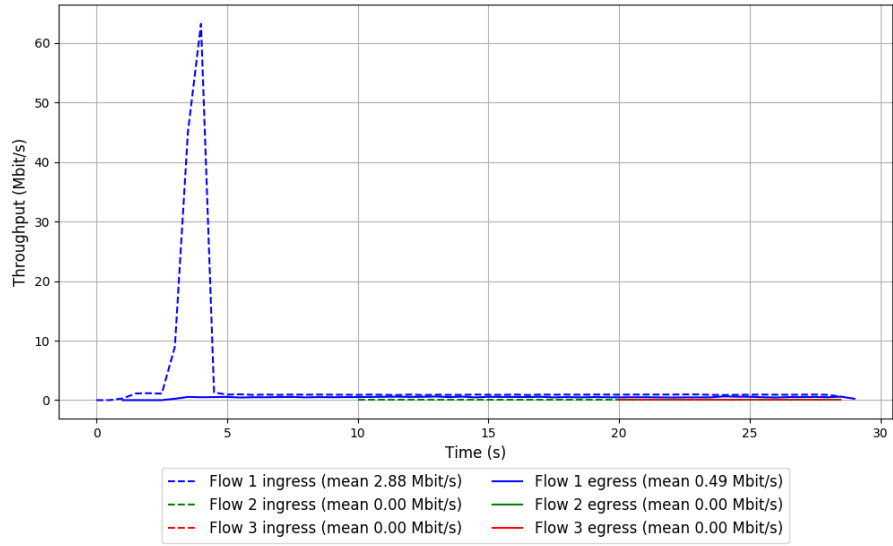
Start at: 2019-03-27 10:18:02

End at: 2019-03-27 10:18:32

Local clock offset: -4.61 ms

Remote clock offset: -1.011 ms

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MuseST

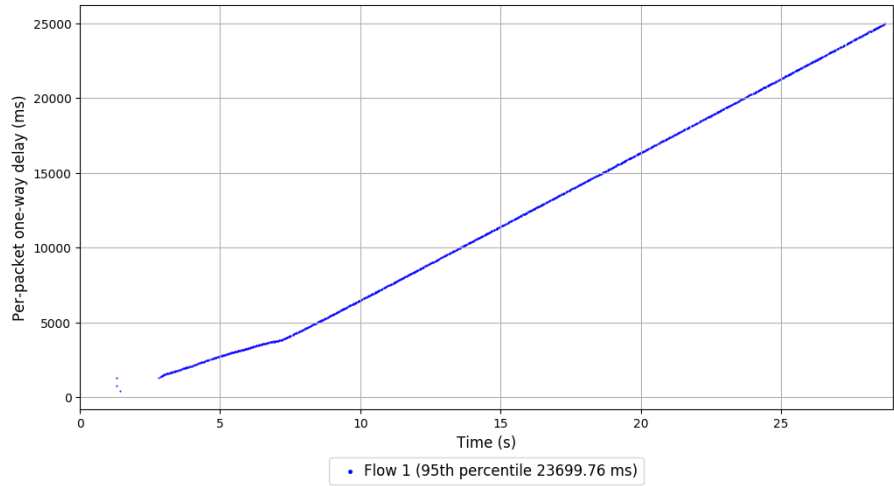
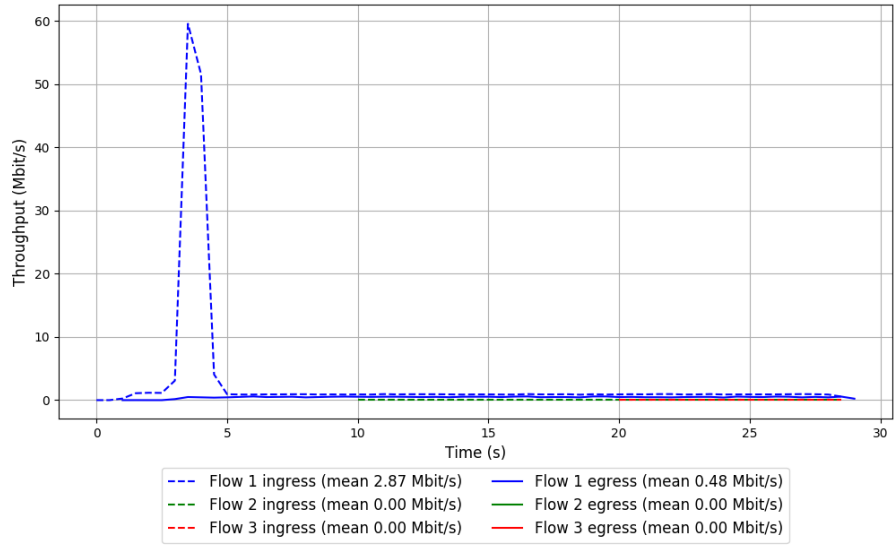
Start at: 2019-03-27 10:43:57

End at: 2019-03-27 10:44:27

Local clock offset: -4.521 ms

Remote clock offset: -3.045 ms

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

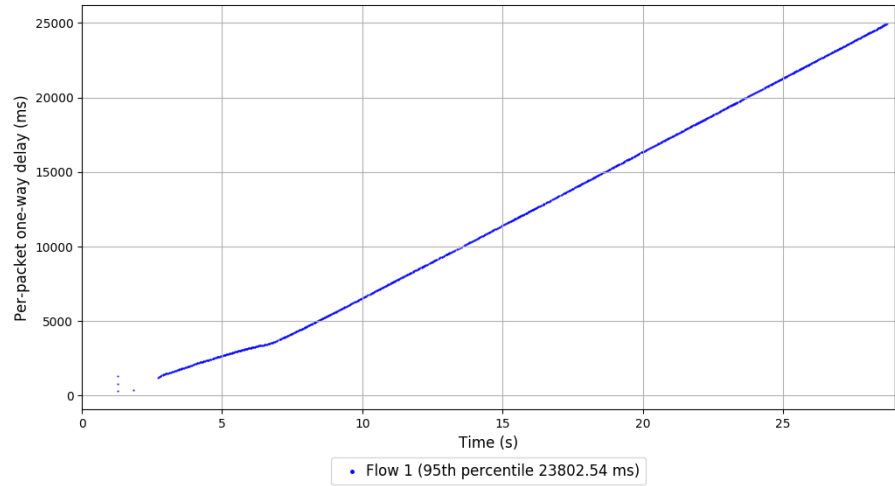
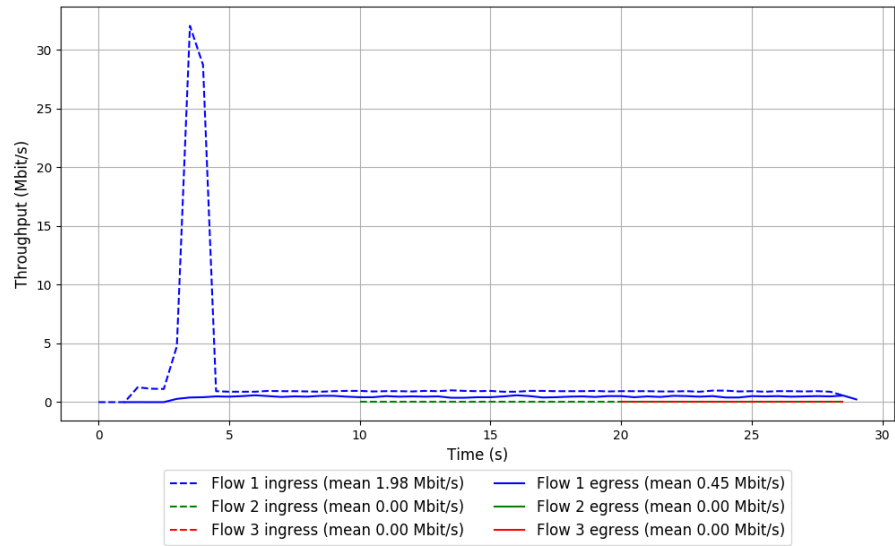
Start at: 2019-03-27 11:10:34

End at: 2019-03-27 11:11:04

Local clock offset: -4.627 ms

Remote clock offset: 6.993 ms

Run 3: Report of Indigo-MusesT — Data Link



Run 1: Statistics of LEDBAT

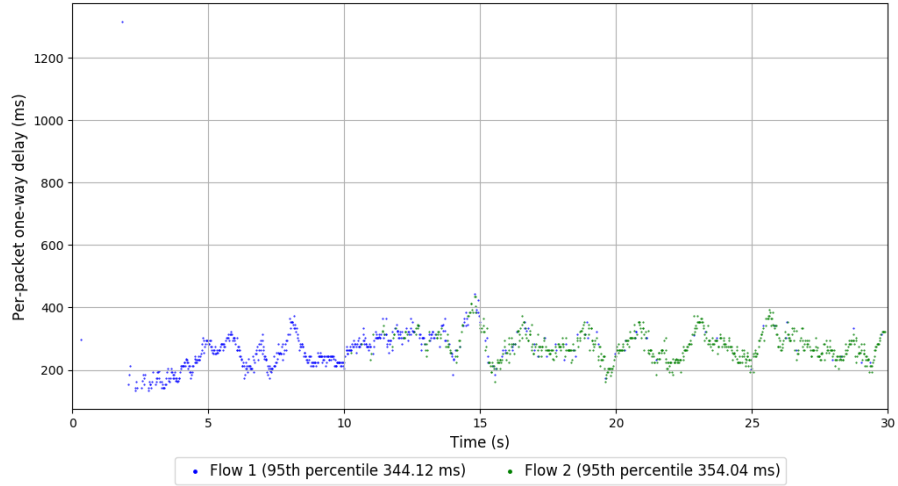
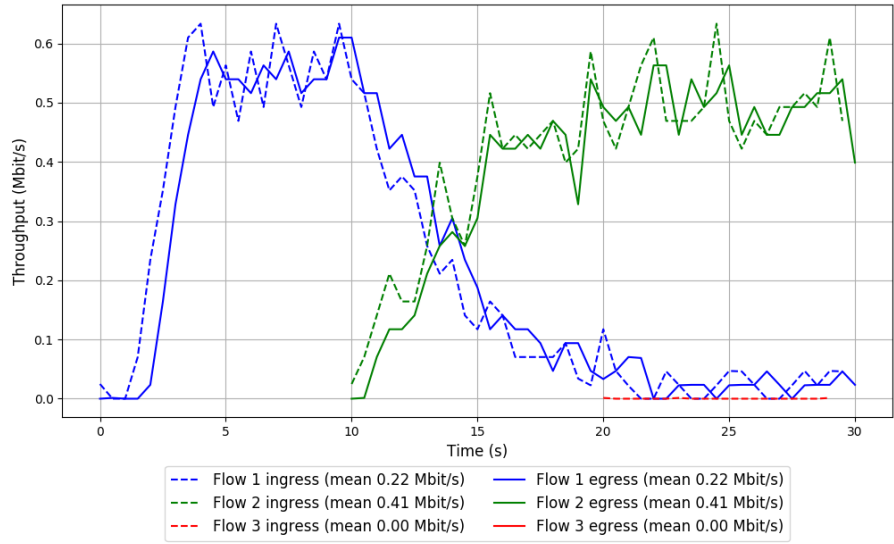
Start at: 2019-03-27 10:24:12

End at: 2019-03-27 10:24:42

Local clock offset: -4.841 ms

Remote clock offset: -5.465 ms

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

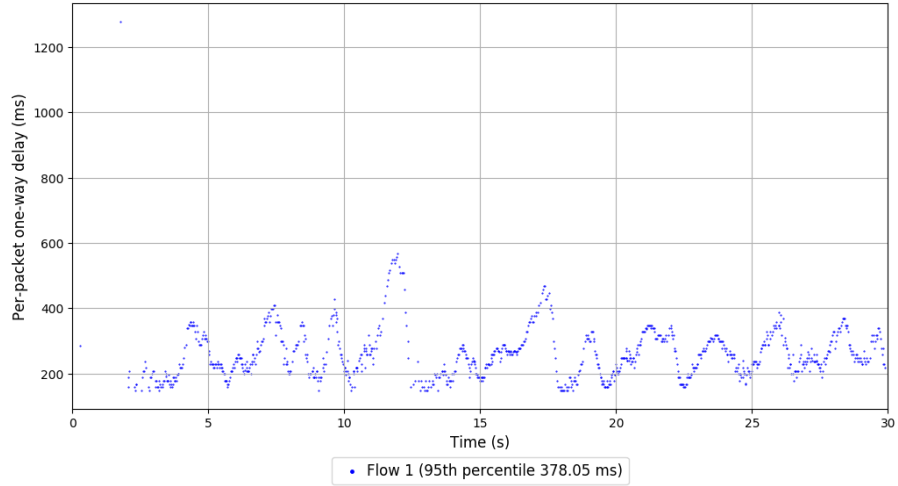
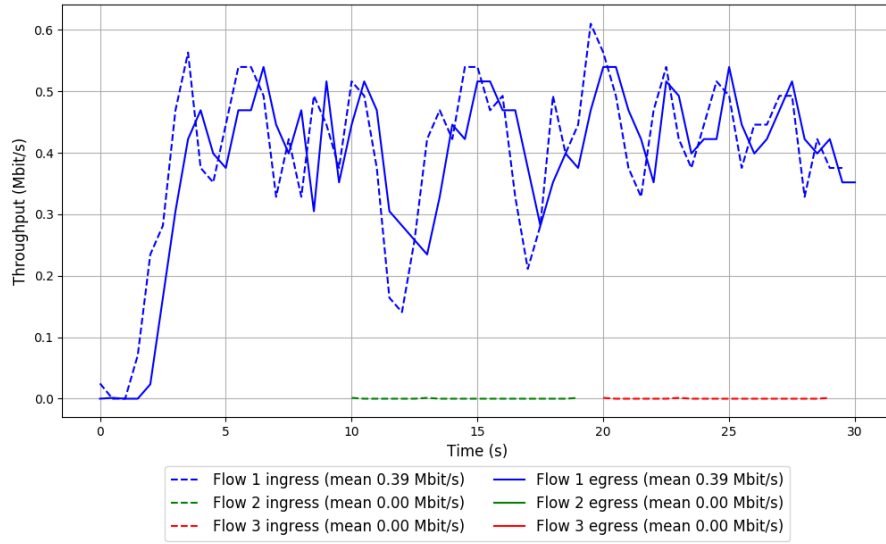
Start at: 2019-03-27 10:50:16

End at: 2019-03-27 10:50:46

Local clock offset: -5.014 ms

Remote clock offset: -2.635 ms

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

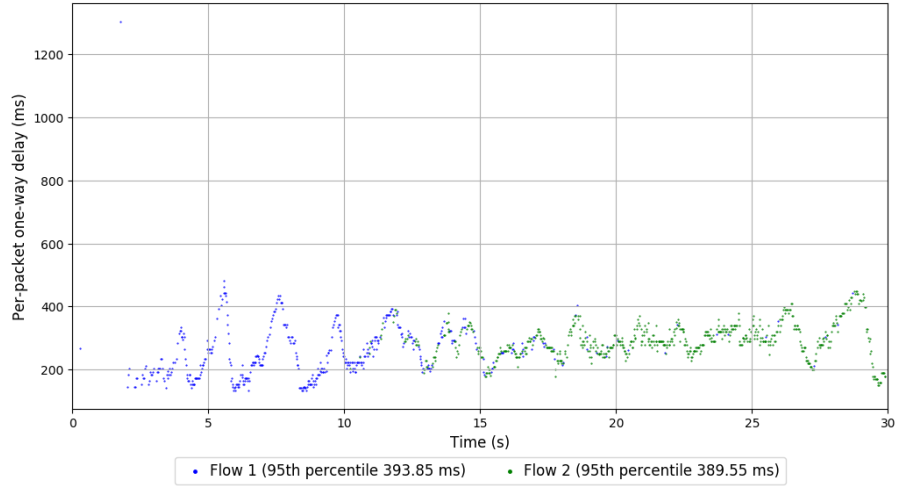
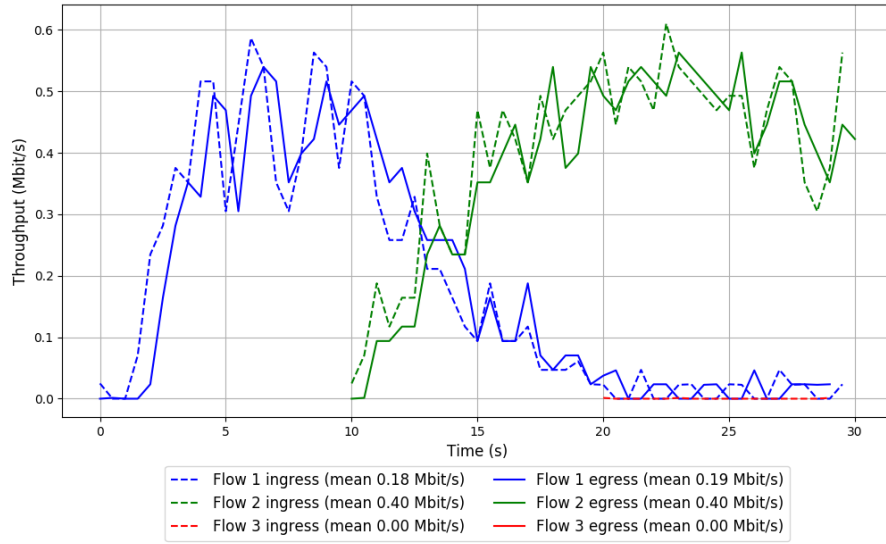
Start at: 2019-03-27 11:16:48

End at: 2019-03-27 11:17:18

Local clock offset: -3.727 ms

Remote clock offset: 7.753 ms

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

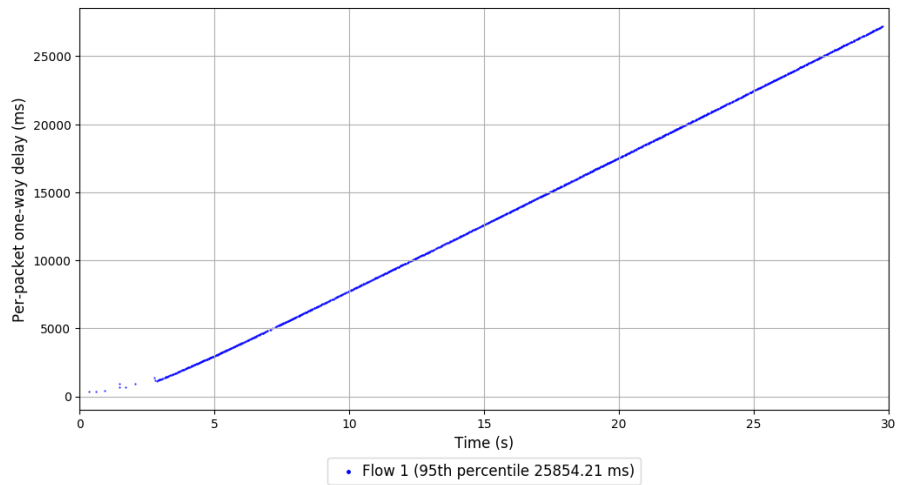
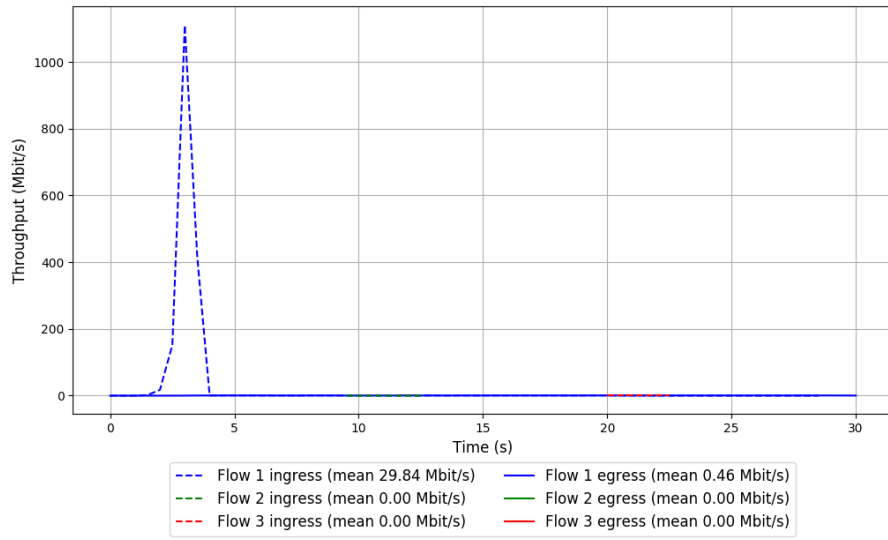
Start at: 2019-03-27 10:15:34

End at: 2019-03-27 10:16:04

Local clock offset: -3.606 ms

Remote clock offset: -3.756 ms

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

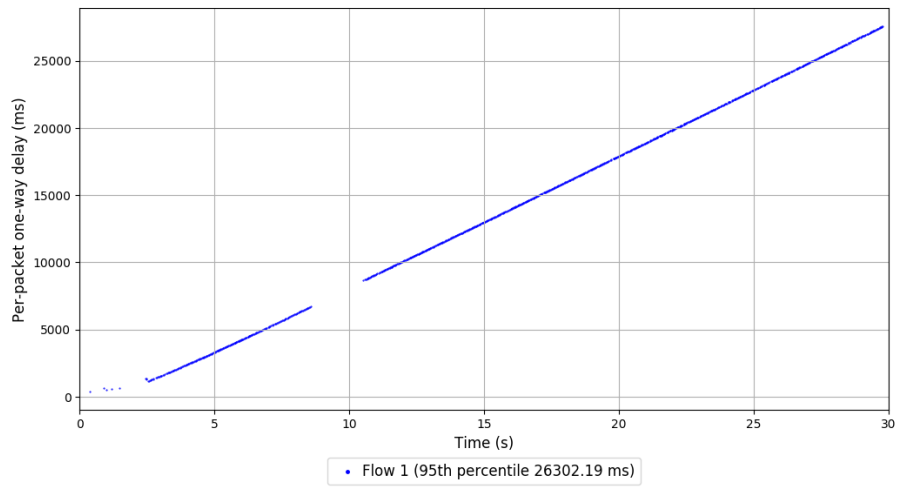
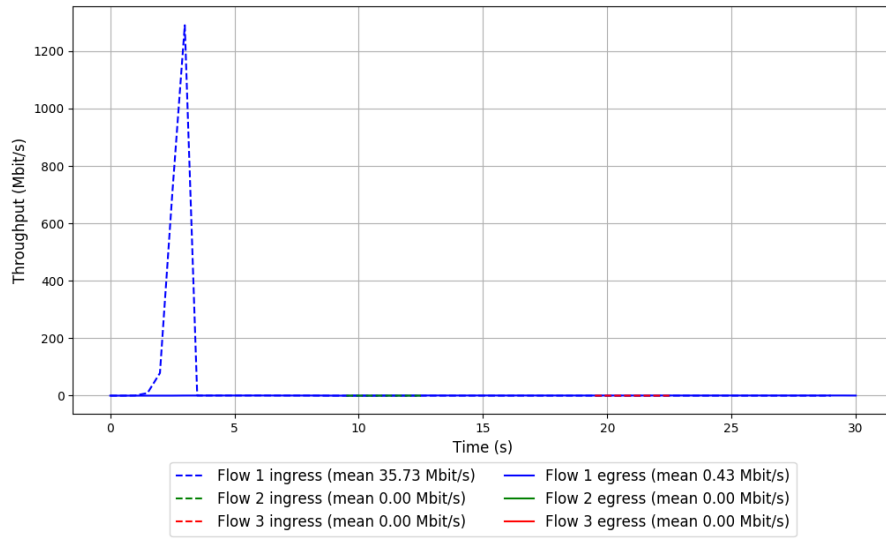
Start at: 2019-03-27 10:41:29

End at: 2019-03-27 10:41:59

Local clock offset: -4.513 ms

Remote clock offset: -7.179 ms

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

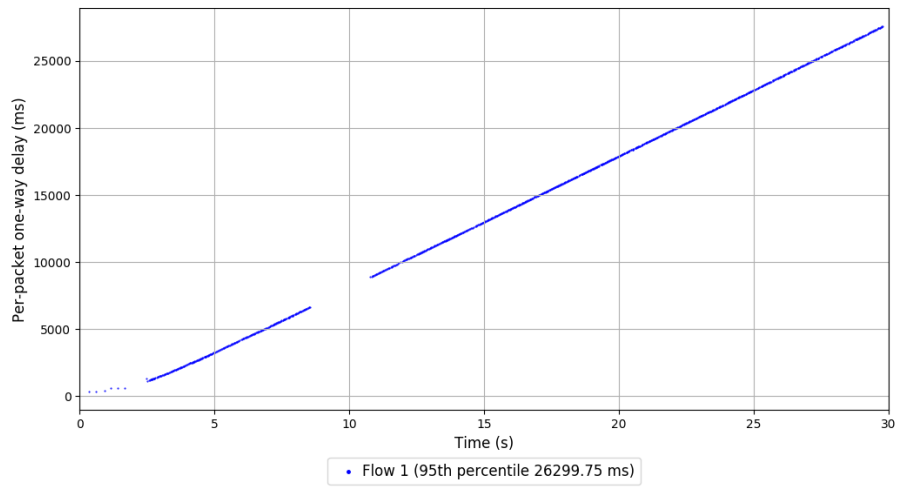
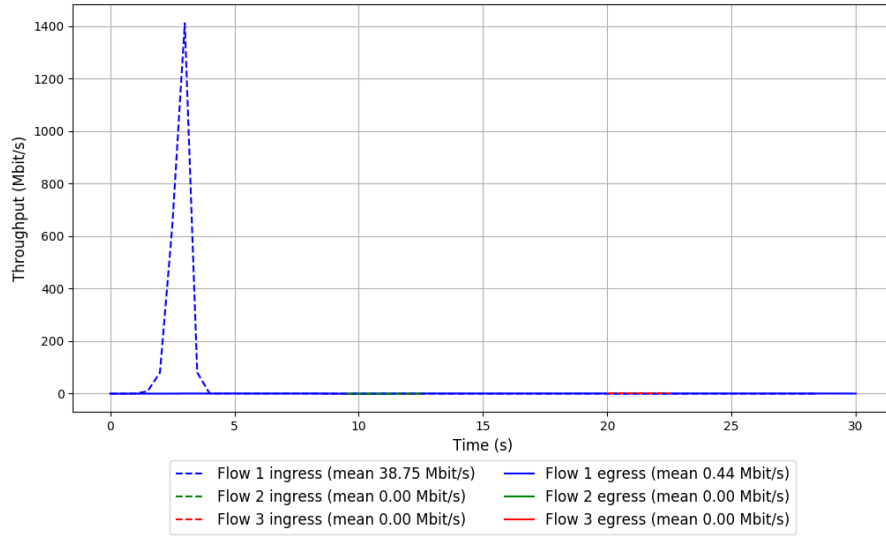
Start at: 2019-03-27 11:08:05

End at: 2019-03-27 11:08:35

Local clock offset: -4.672 ms

Remote clock offset: 6.795 ms

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

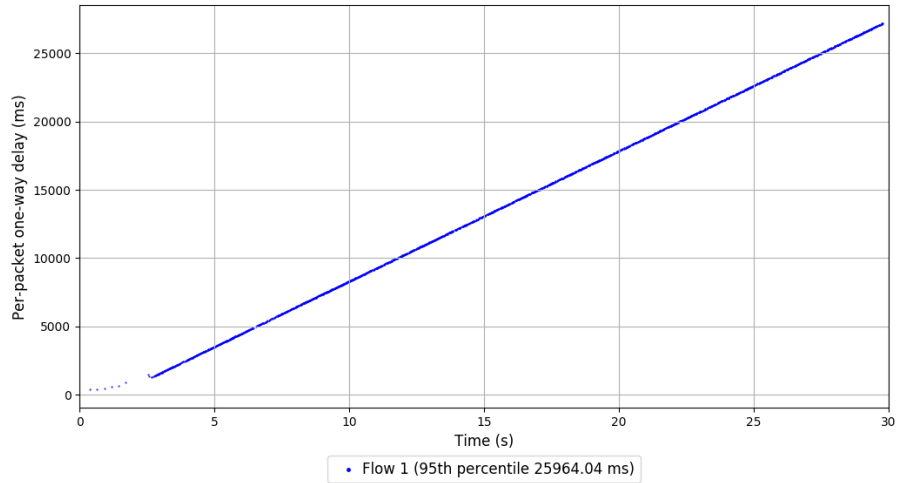
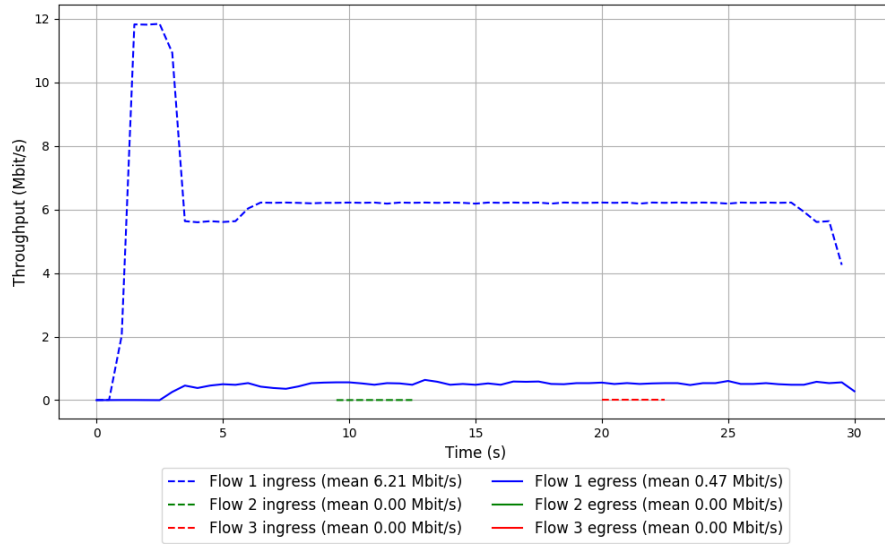
Start at: 2019-03-27 10:21:44

End at: 2019-03-27 10:22:14

Local clock offset: -3.978 ms

Remote clock offset: -0.477 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

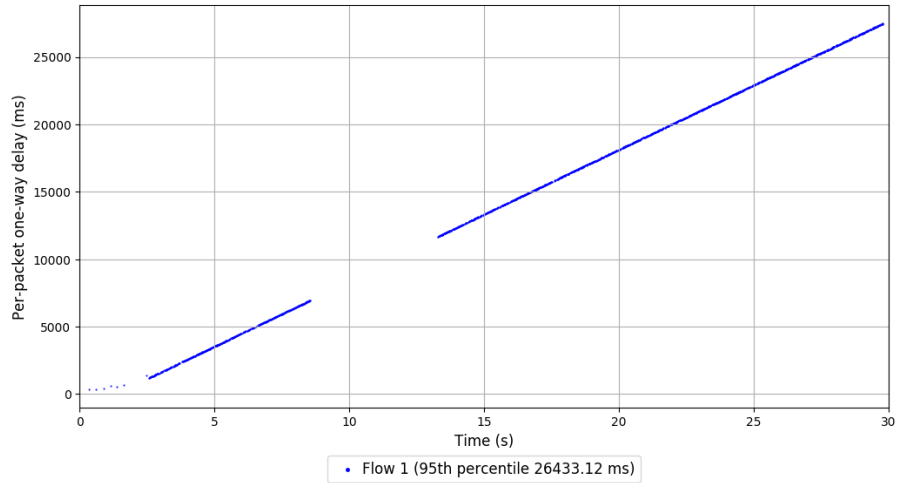
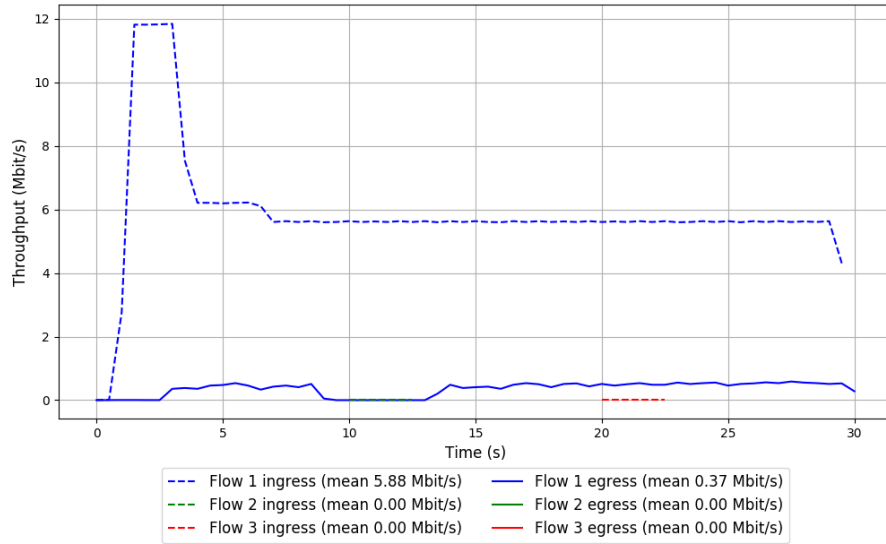
Start at: 2019-03-27 10:47:45

End at: 2019-03-27 10:48:15

Local clock offset: -5.145 ms

Remote clock offset: -3.788 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

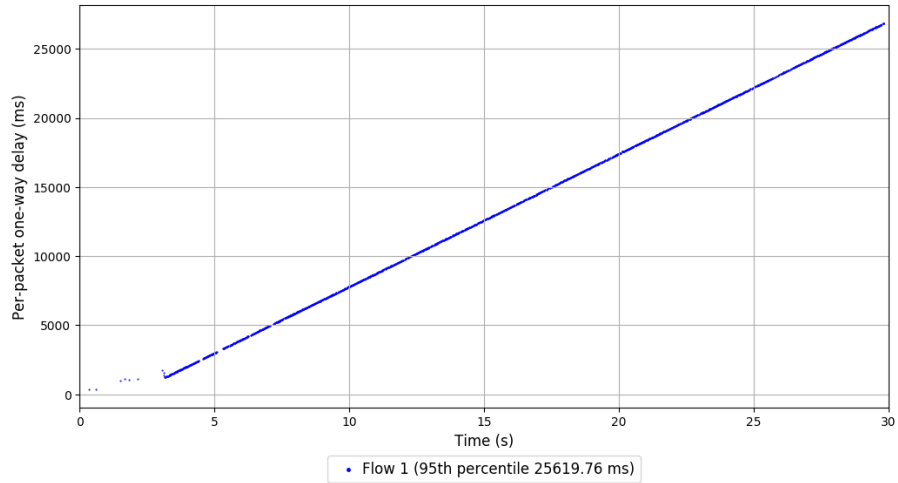
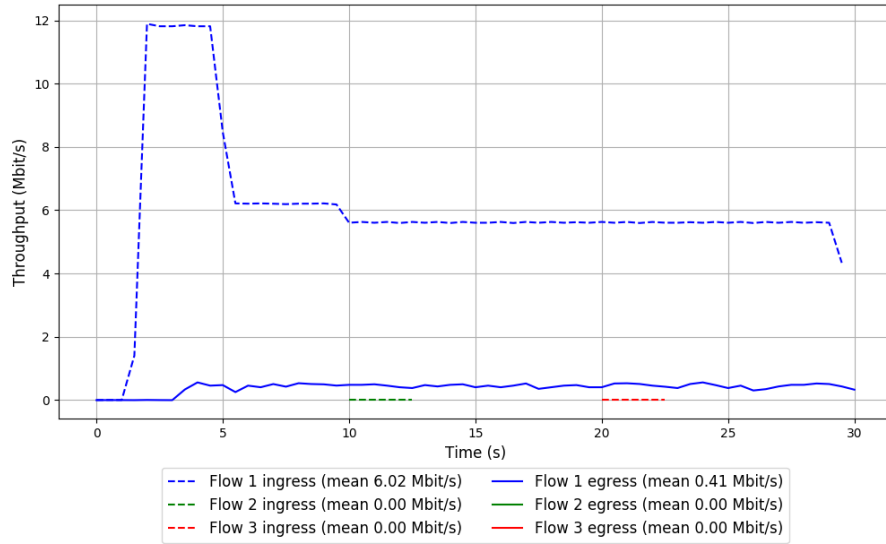
Start at: 2019-03-27 11:14:18

End at: 2019-03-27 11:14:48

Local clock offset: -4.628 ms

Remote clock offset: 3.477 ms

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 10:39:02

End at: 2019-03-27 10:39:32

Local clock offset: -5.196 ms

Remote clock offset: -0.646 ms

Run 1: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of QUIC Cubic

Start at: 2019-03-27 11:05:36

End at: 2019-03-27 11:06:06

Local clock offset: -4.679 ms

Remote clock offset: 5.373 ms

Run 2: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of QUIC Cubic

Start at: 2019-03-27 11:31:57

End at: 2019-03-27 11:32:27

Local clock offset: -3.408 ms

Remote clock offset: 2.836 ms

Run 3: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of SCReAM

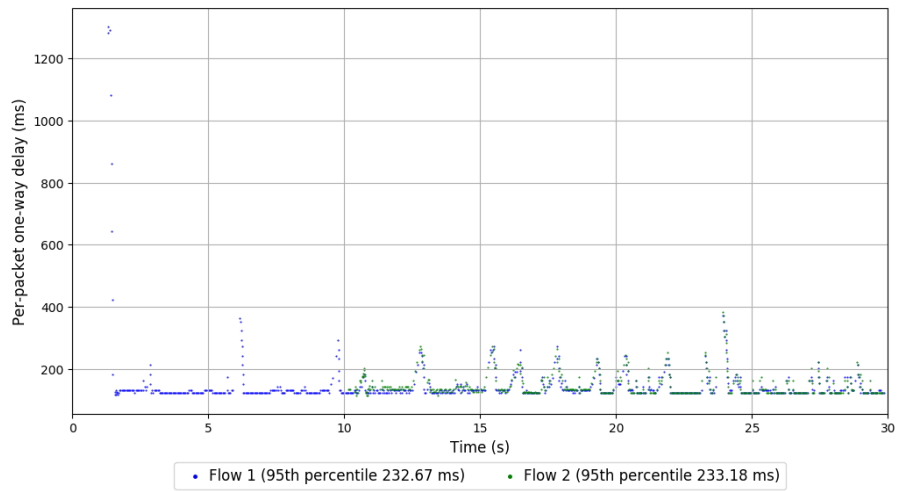
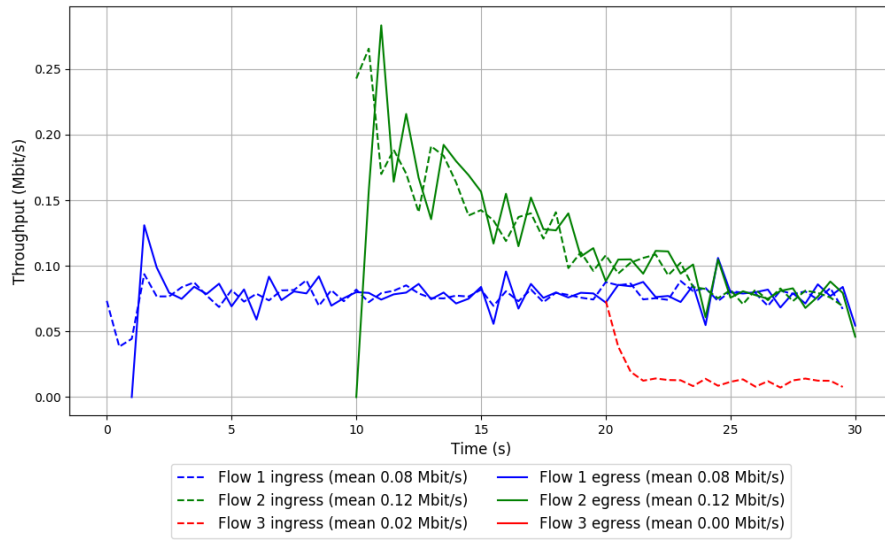
Start at: 2019-03-27 10:16:49

End at: 2019-03-27 10:17:19

Local clock offset: -4.432 ms

Remote clock offset: -0.098 ms

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

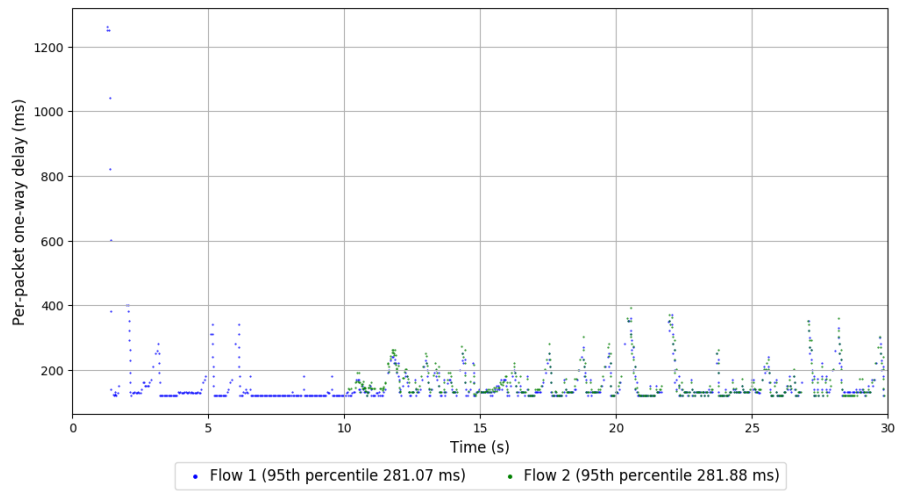
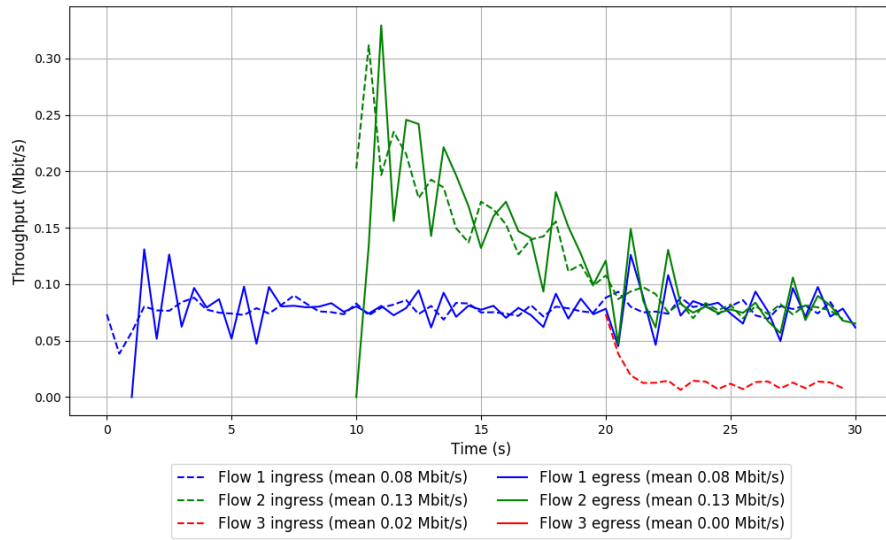
Start at: 2019-03-27 10:42:44

End at: 2019-03-27 10:43:14

Local clock offset: -4.468 ms

Remote clock offset: -7.061 ms

Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

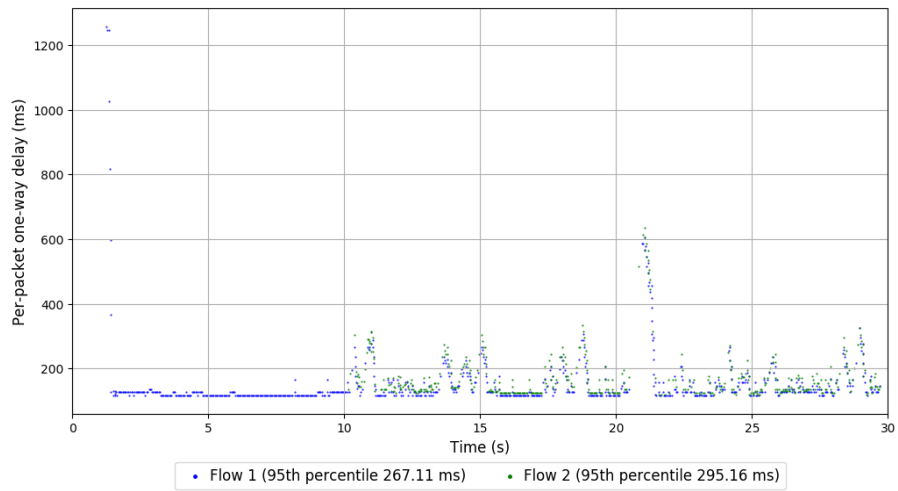
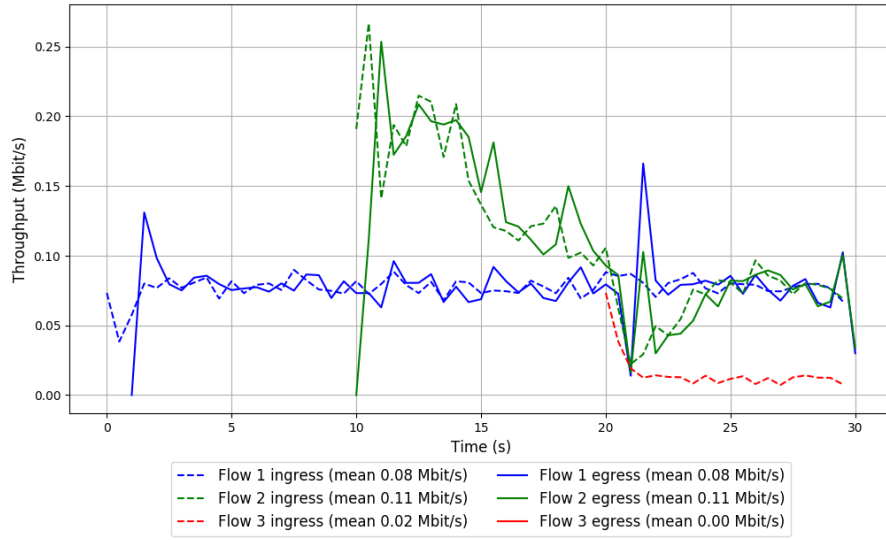
Start at: 2019-03-27 11:09:20

End at: 2019-03-27 11:09:50

Local clock offset: -4.682 ms

Remote clock offset: 6.664 ms

Run 3: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

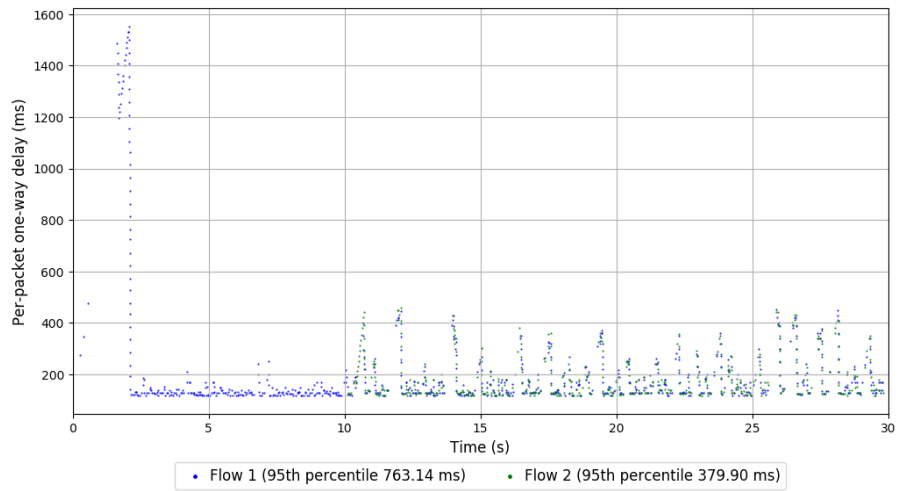
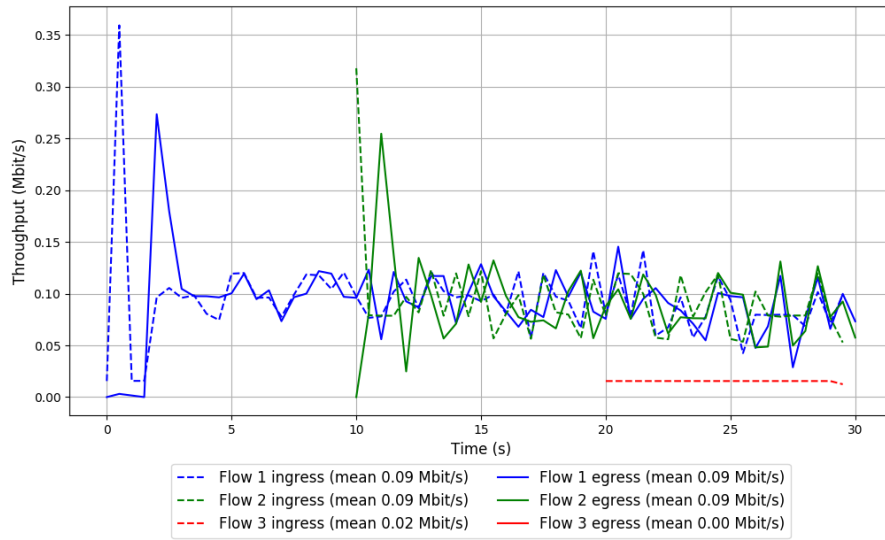
Start at: 2019-03-27 10:31:36

End at: 2019-03-27 10:32:06

Local clock offset: -5.075 ms

Remote clock offset: -6.154 ms

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

/home/ubuntu/pantheon/data/2019-03-27T10-13-Colombia-cellular-to-AWS-Brazil-2-3-runs-3-flows

Run 2: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Sprout

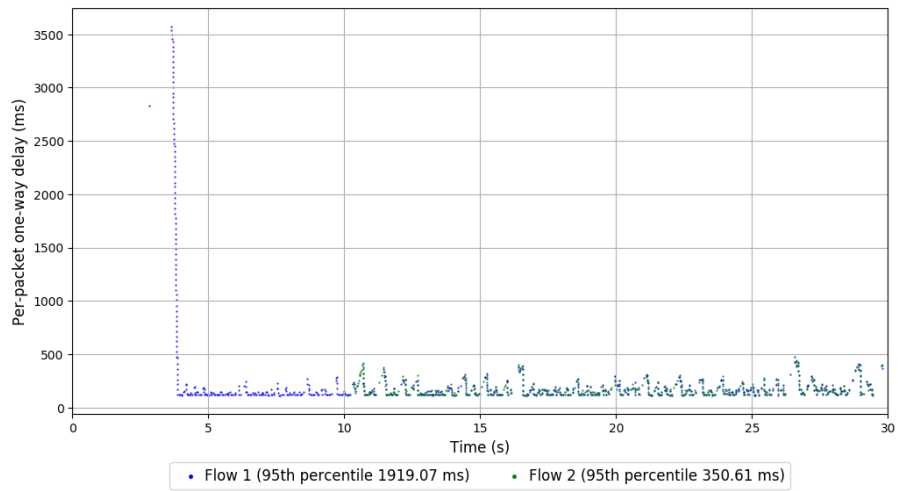
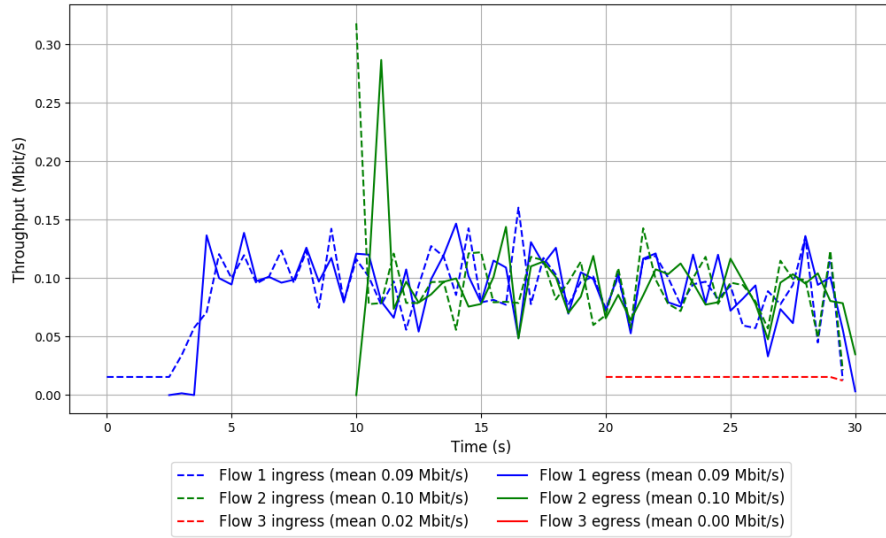
Start at: 2019-03-27 11:24:13

End at: 2019-03-27 11:24:43

Local clock offset: -3.802 ms

Remote clock offset: 7.069 ms

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

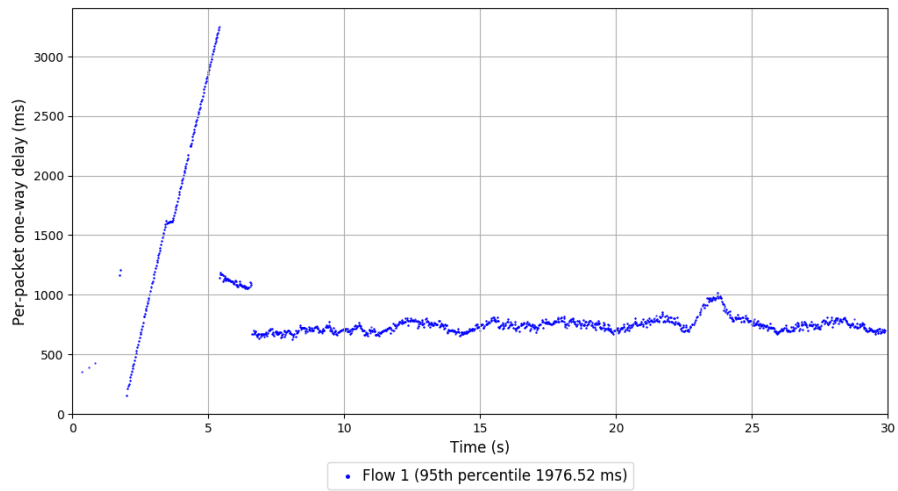
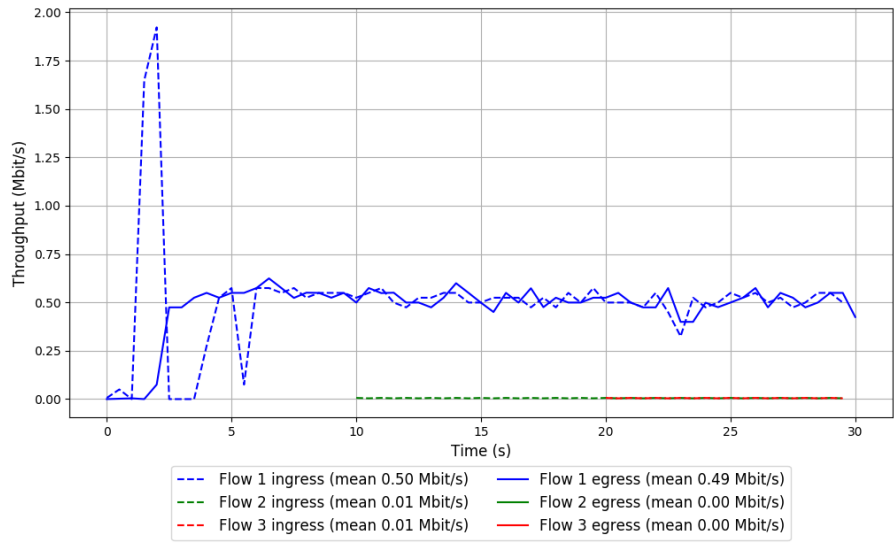
Start at: 2019-03-27 10:20:31

End at: 2019-03-27 10:21:01

Local clock offset: -4.681 ms

Remote clock offset: -4.129 ms

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



Run 2: Statistics of TaoVA-100x

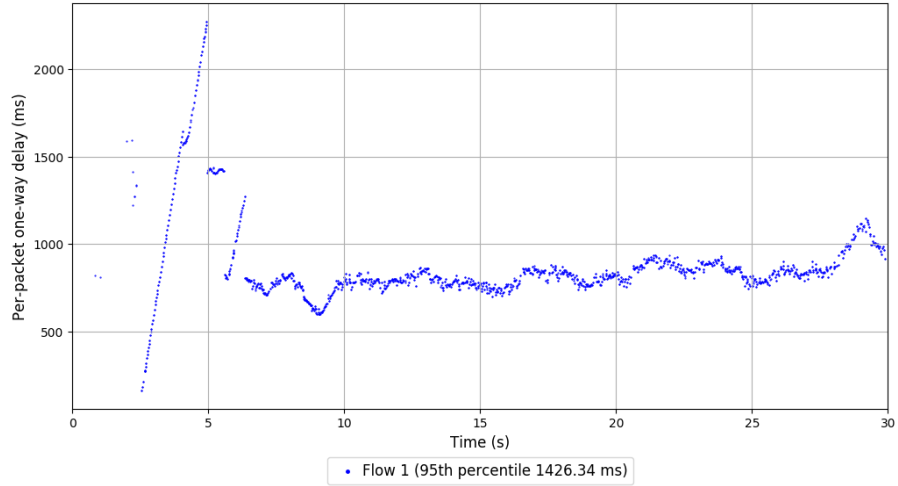
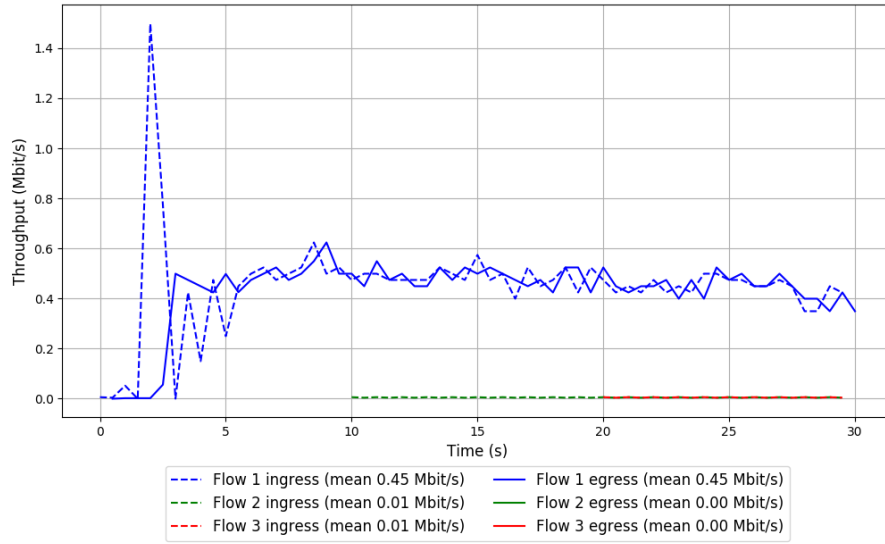
Start at: 2019-03-27 10:46:32

End at: 2019-03-27 10:47:02

Local clock offset: -5.227 ms

Remote clock offset: -0.963 ms

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



Run 3: Statistics of TaoVA-100x

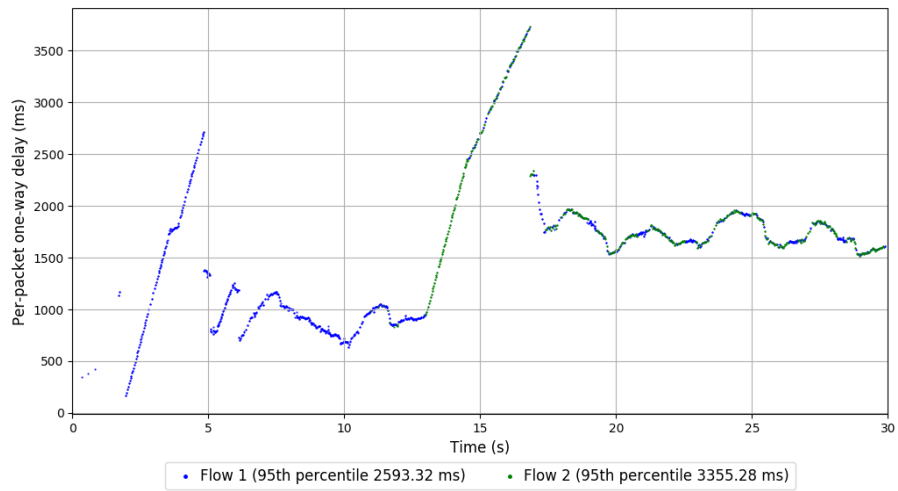
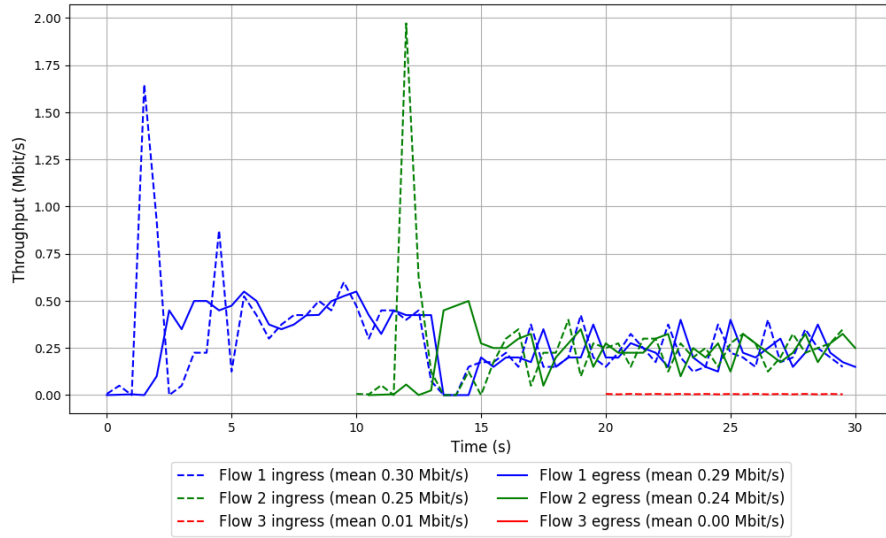
Start at: 2019-03-27 11:13:04

End at: 2019-03-27 11:13:34

Local clock offset: -3.918 ms

Remote clock offset: 8.441 ms

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



Run 1: Statistics of TCP Vegas

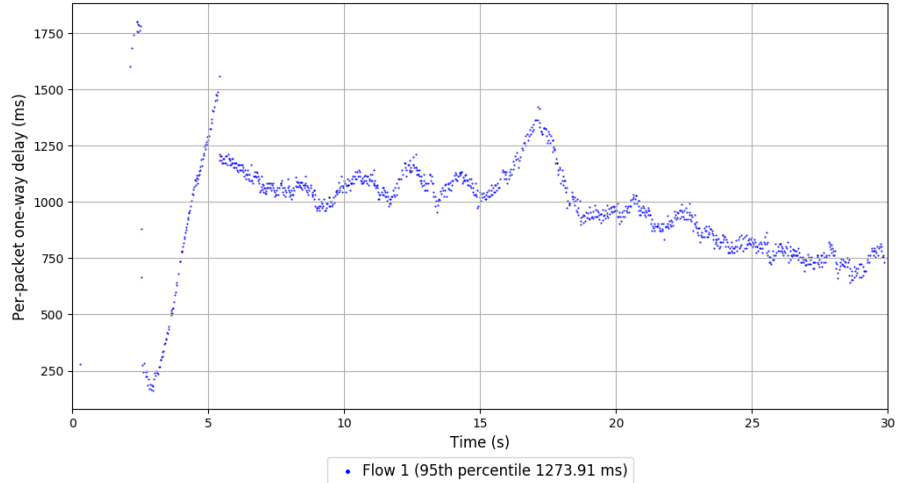
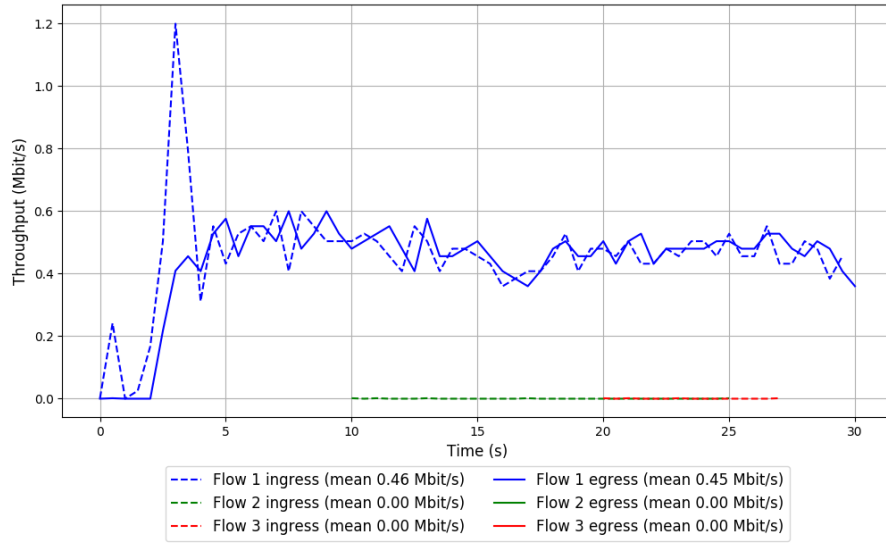
Start at: 2019-03-27 10:29:07

End at: 2019-03-27 10:29:37

Local clock offset: -4.243 ms

Remote clock offset: -2.22 ms

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

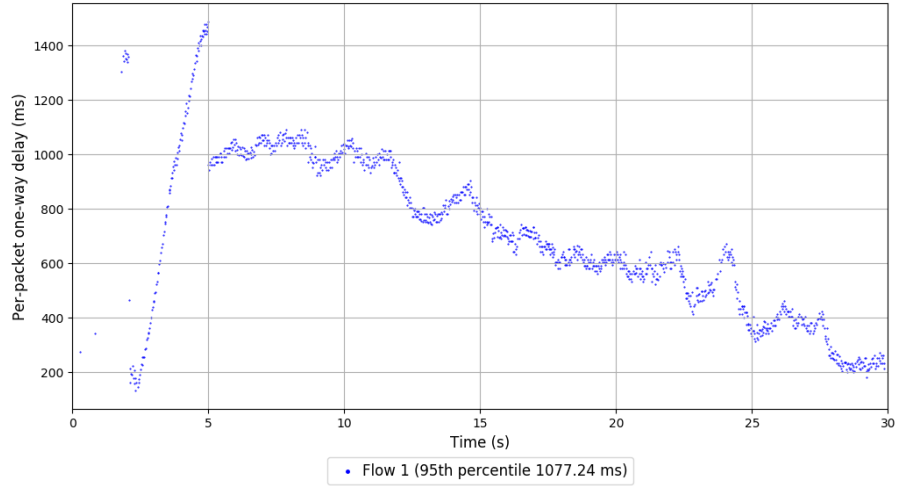
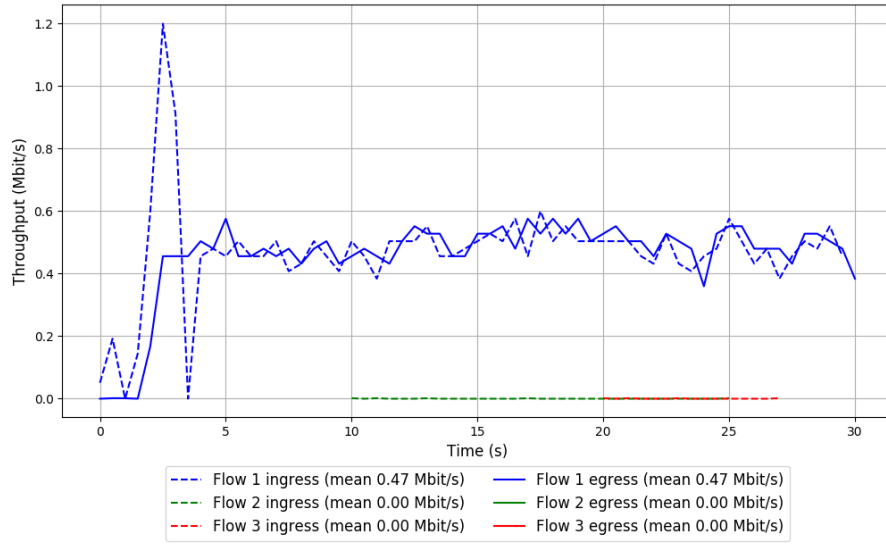
Start at: 2019-03-27 10:55:11

End at: 2019-03-27 10:55:41

Local clock offset: -4.072 ms

Remote clock offset: 4.438 ms

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

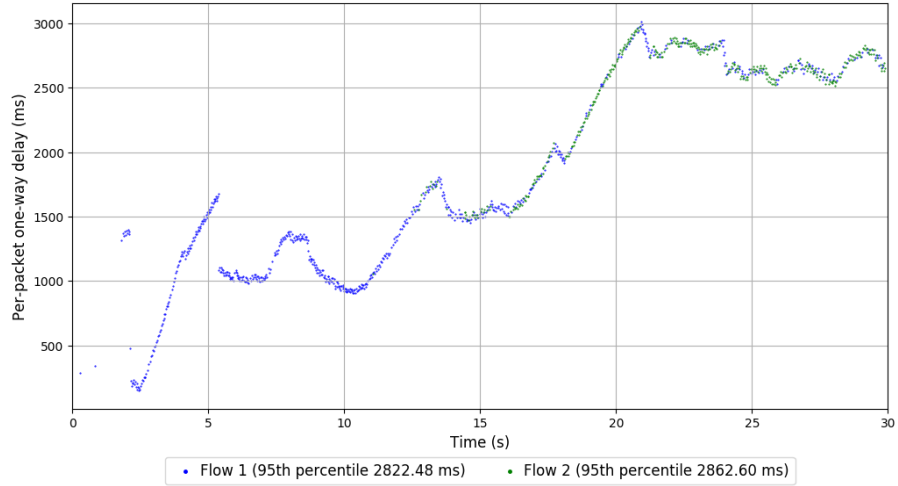
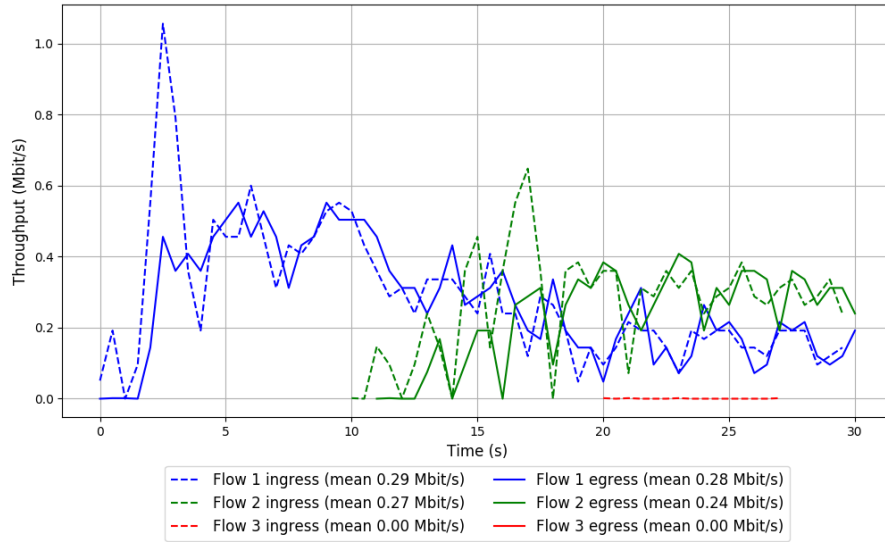
Start at: 2019-03-27 11:21:42

End at: 2019-03-27 11:22:12

Local clock offset: -3.99 ms

Remote clock offset: 8.296 ms

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-27 10:14:21

End at: 2019-03-27 10:14:51

Local clock offset: -4.396 ms

Remote clock offset: -4.722 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2019-03-27 10:40:16

End at: 2019-03-27 10:40:46

Local clock offset: -5.264 ms

Remote clock offset: -5.798 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2019-03-27 11:06:49

End at: 2019-03-27 11:07:19

Local clock offset: -4.721 ms

Remote clock offset: 2.681 ms

Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

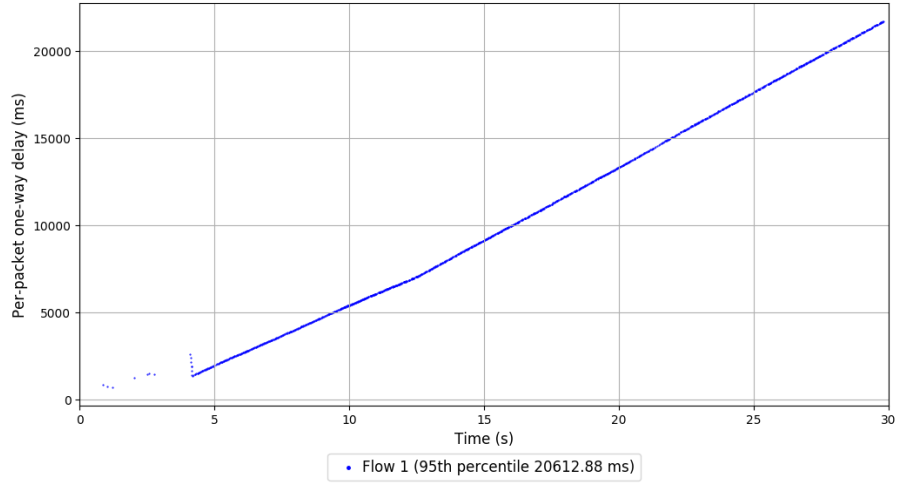
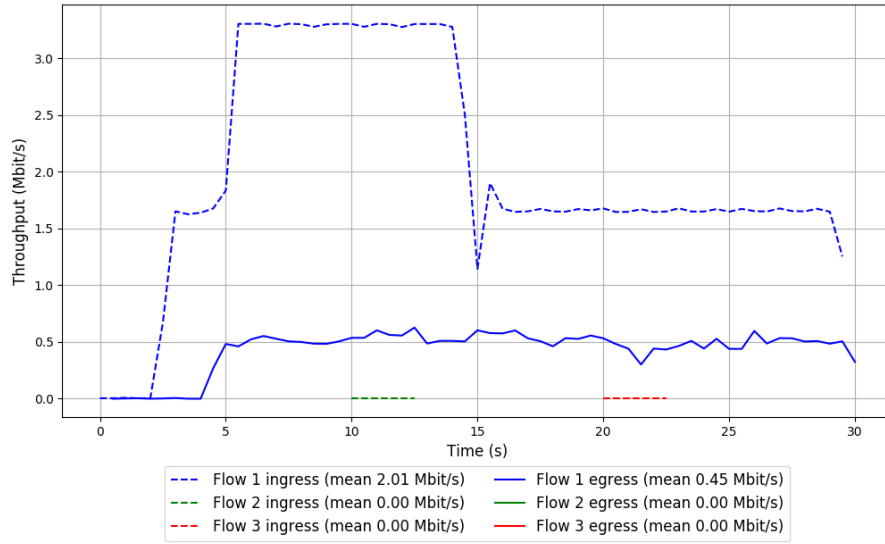
Start at: 2019-03-27 10:36:34

End at: 2019-03-27 10:37:04

Local clock offset: -5.149 ms

Remote clock offset: -5.502 ms

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2019-03-27T10-13-Colombia-cellular-to-AWS-Brazil-2-3-runs-3-flows

Run 2: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Vivace

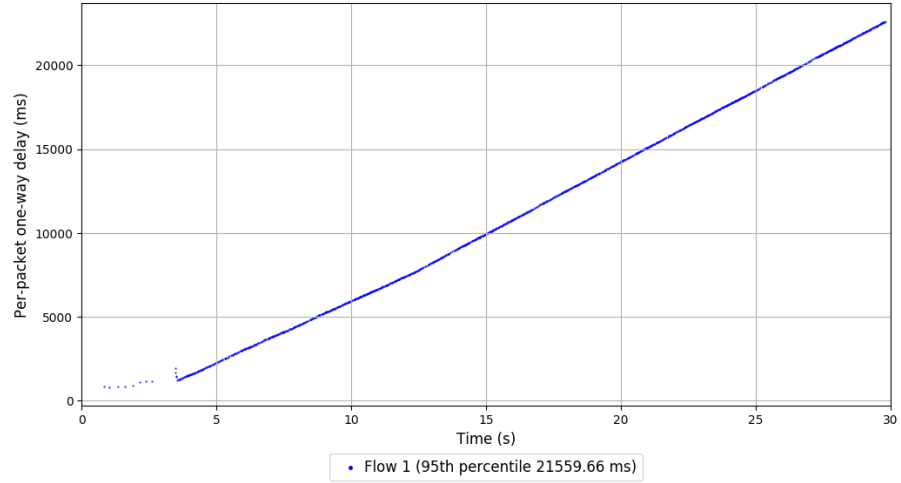
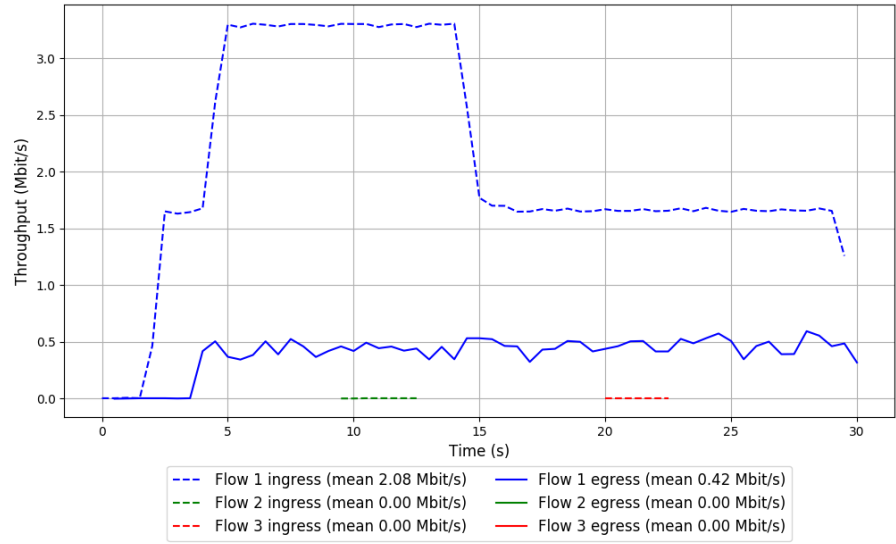
Start at: 2019-03-27 11:29:09

End at: 2019-03-27 11:29:39

Local clock offset: -2.741 ms

Remote clock offset: 2.848 ms

Run 3: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-03-27 10:25:26

End at: 2019-03-27 10:25:56

Local clock offset: -4.892 ms

Remote clock offset: 0.462 ms

Below is generated by plot.py at 2019-03-27 11:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 1687.920 ms

Loss rate: 1.08%

-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 1740.986 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 1677.985 ms

Loss rate: 0.26%

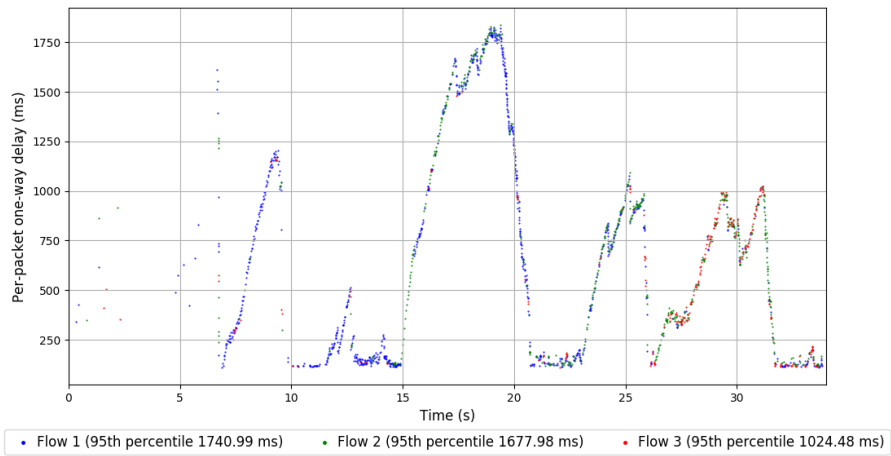
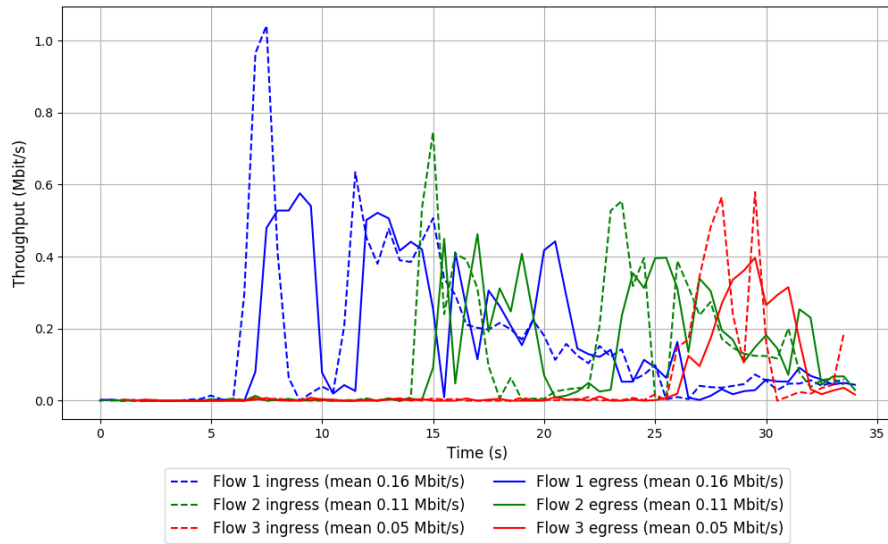
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1024.484 ms

Loss rate: 5.78%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-27 10:51:30

End at: 2019-03-27 10:52:00

Local clock offset: -5.03 ms

Remote clock offset: 3.05 ms

Below is generated by plot.py at 2019-03-27 11:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 2000.170 ms

Loss rate: 3.71%

-- Flow 1:

Average throughput: 0.13 Mbit/s

95th percentile per-packet one-way delay: 1828.468 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 0.10 Mbit/s

95th percentile per-packet one-way delay: 2045.046 ms

Loss rate: 1.25%

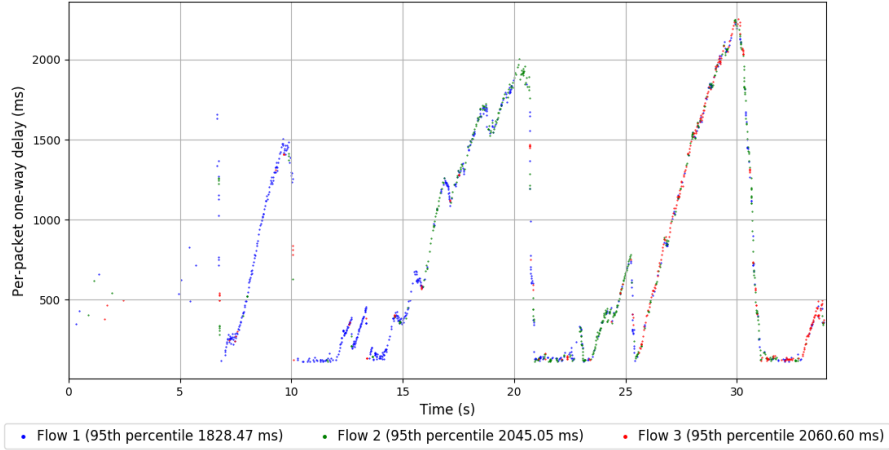
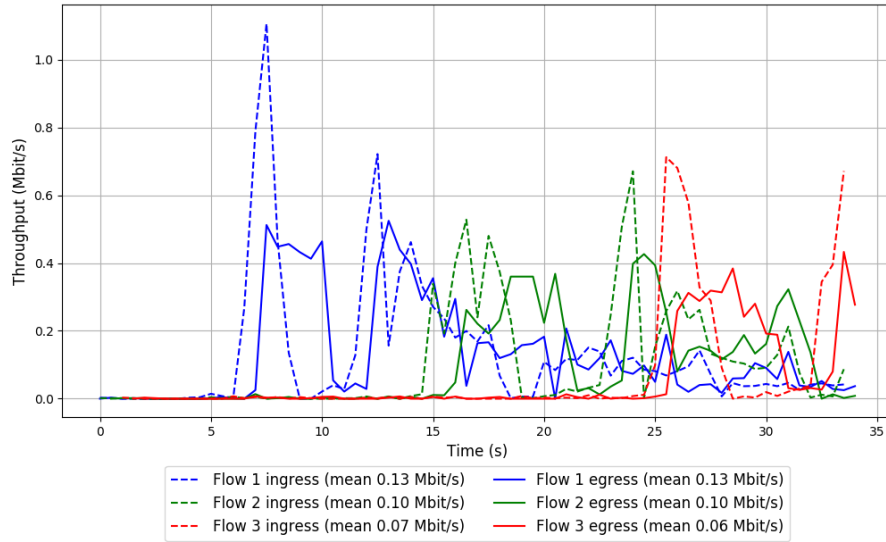
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 2060.600 ms

Loss rate: 14.26%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-27 11:18:02

End at: 2019-03-27 11:18:32

Local clock offset: -3.662 ms

Remote clock offset: 7.646 ms

Below is generated by plot.py at 2019-03-27 11:33:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 1657.087 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 1662.202 ms

Loss rate: 1.69%

-- Flow 2:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 1633.653 ms

Loss rate: 0.21%

-- Flow 3:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 1733.017 ms

Loss rate: 1.93%

Run 3: Report of WebRTC media — Data Link

