

Pantheon Report

Generated at 2019-03-19 02:03:45 (UTC).

Data path: AWS Brazil 2 on `ens5` (*local*) → Colombia 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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

System info:

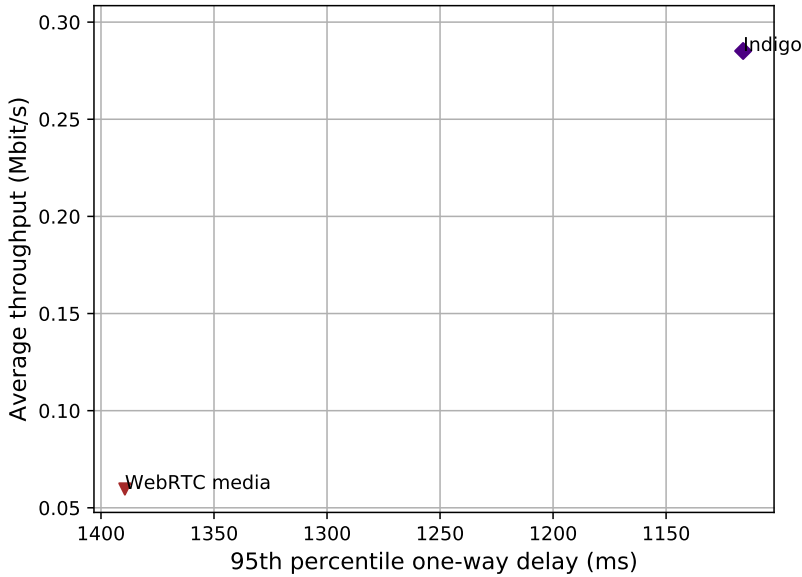
```
Linux 4.15.0-1033-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

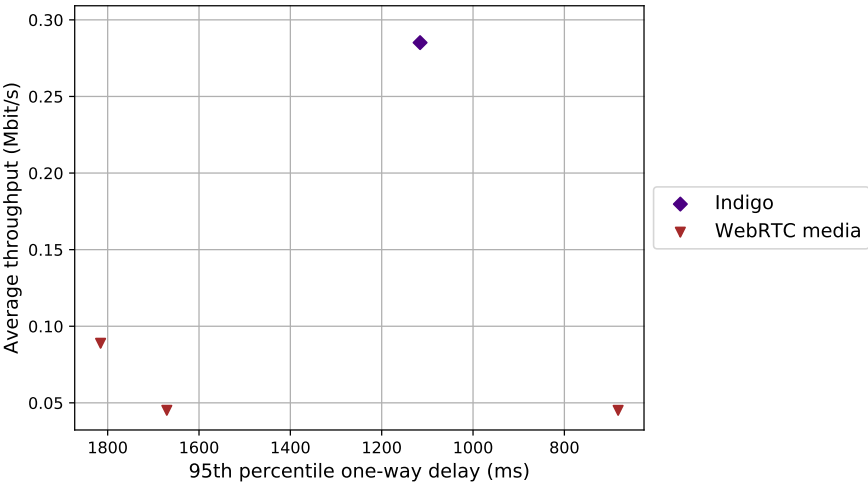
```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 AWS Brazil 2 to Colombia cellular, 3 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 2 to Colombia cellular, 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	1	0.15	0.12	0.17	1035.92	1137.06	1307.59	0.28	0.50	0.00
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	0.04	0.01	0.00	1370.53	798.61	247.62	0.02	0.00	0.00

Run 1: Statistics of TCP BBR

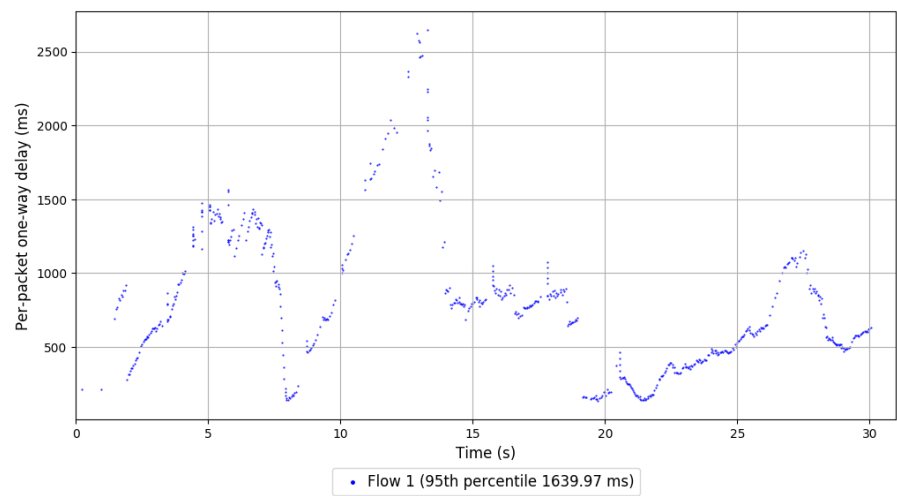
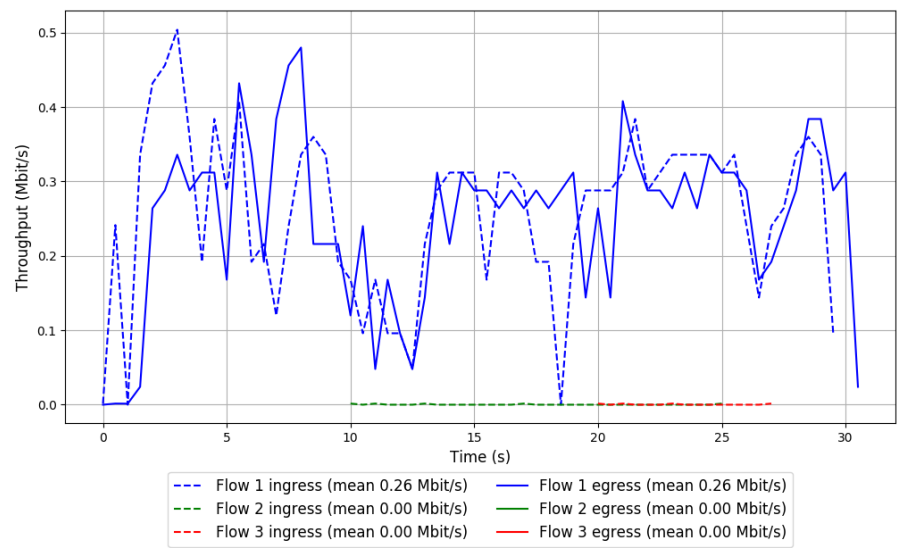
Start at: 2019-03-19 01:01:19

End at: 2019-03-19 01:01:49

Local clock offset: -6.146 ms

Remote clock offset: 1.517 ms

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

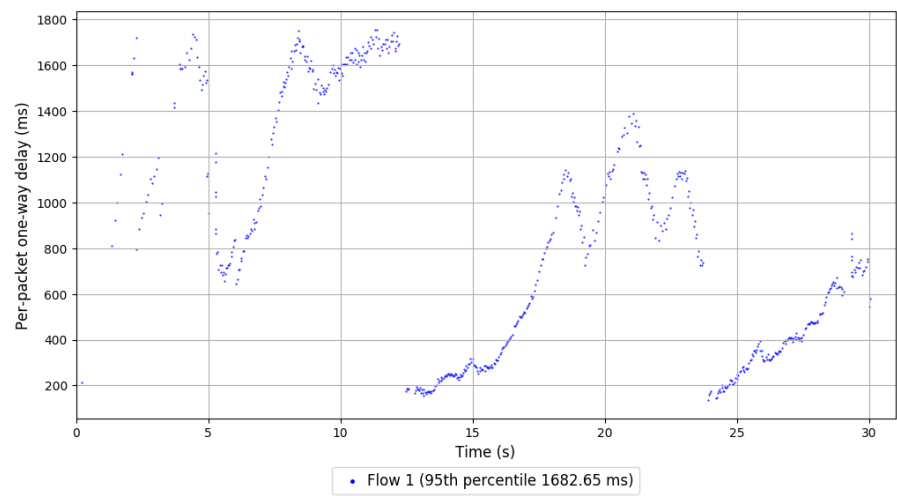
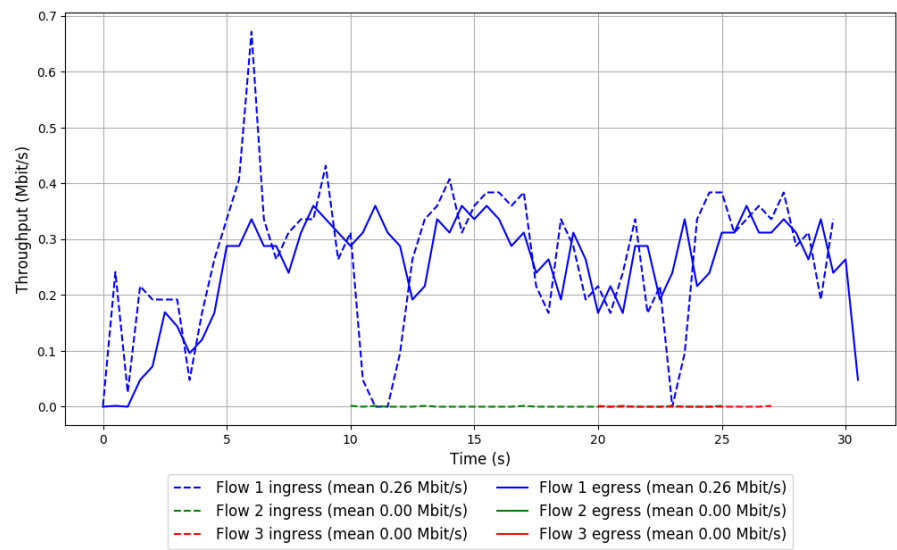
Start at: 2019-03-19 01:27:03

End at: 2019-03-19 01:27:33

Local clock offset: -5.598 ms

Remote clock offset: 4.223 ms

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

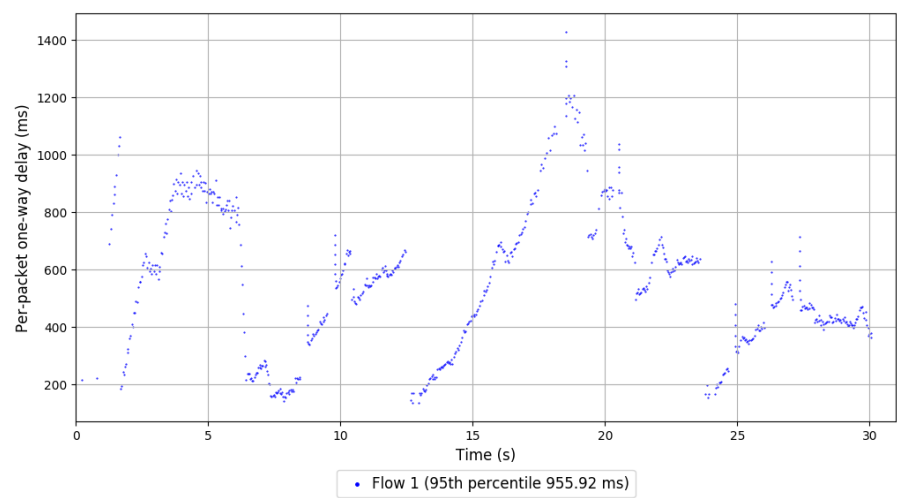
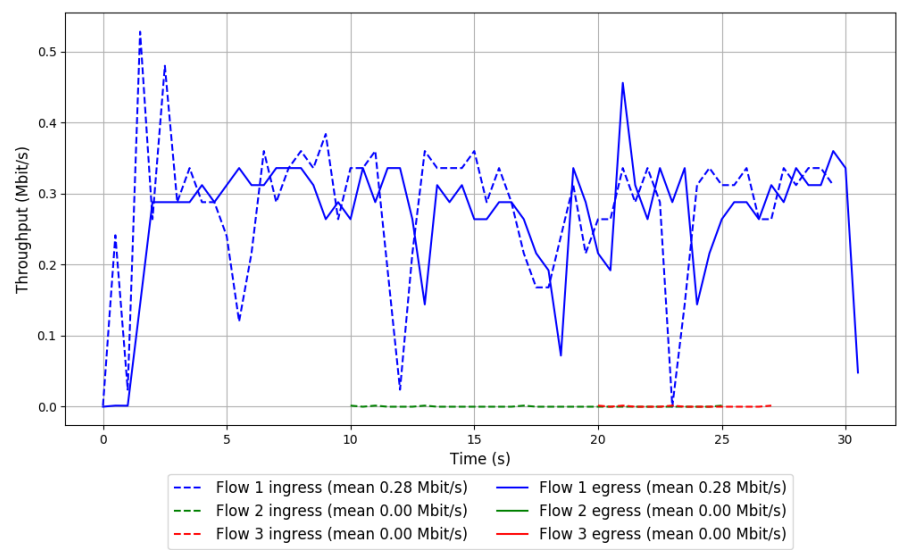
Start at: 2019-03-19 01:52:46

End at: 2019-03-19 01:53:16

Local clock offset: -5.686 ms

Remote clock offset: 5.477 ms

Run 3: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

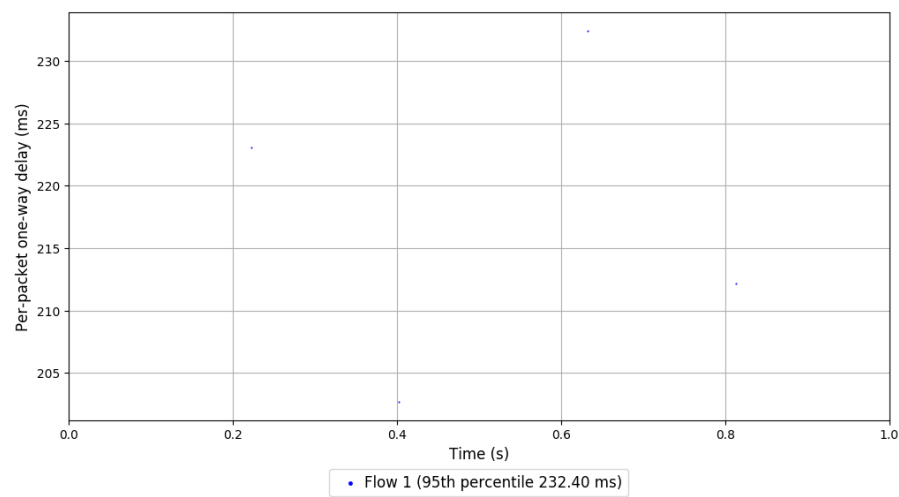
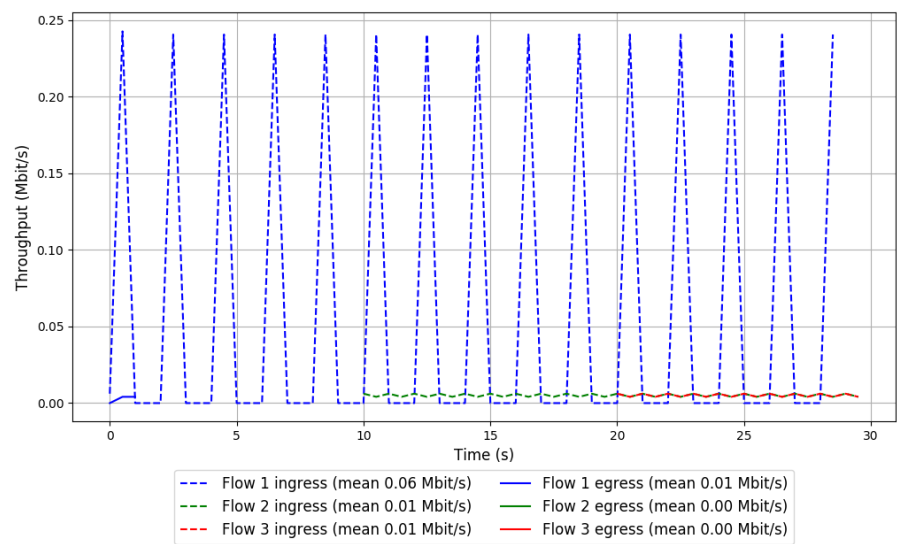
Start at: 2019-03-19 01:09:53

End at: 2019-03-19 01:10:23

Local clock offset: -6.676 ms

Remote clock offset: 1.442 ms

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

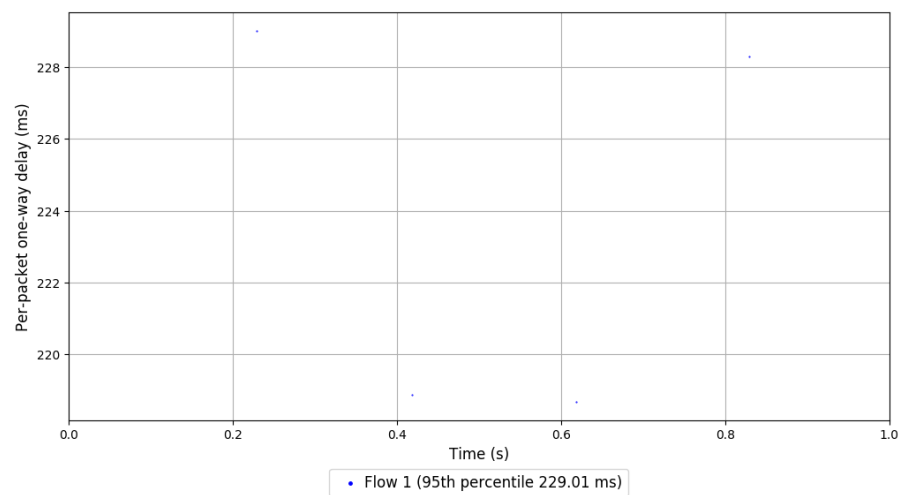
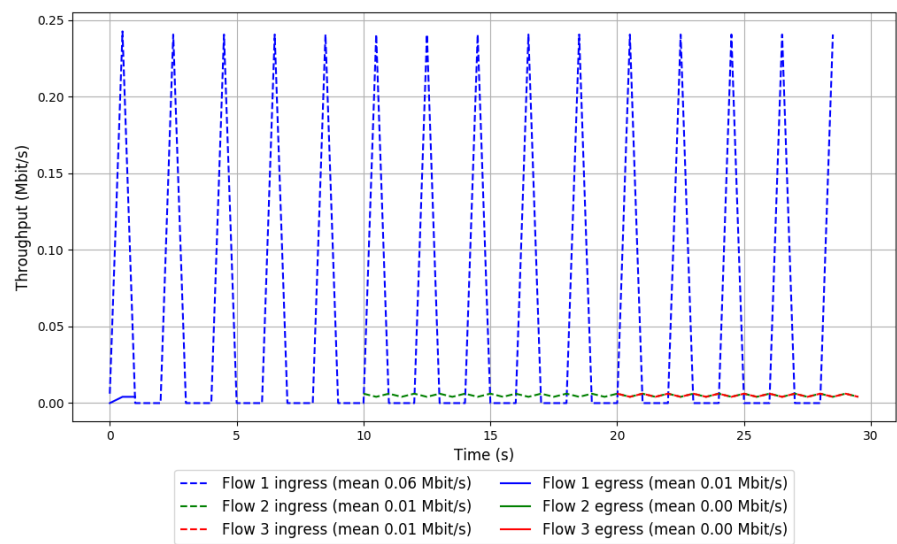
Start at: 2019-03-19 01:35:38

End at: 2019-03-19 01:36:08

Local clock offset: -6.095 ms

Remote clock offset: 8.059 ms

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

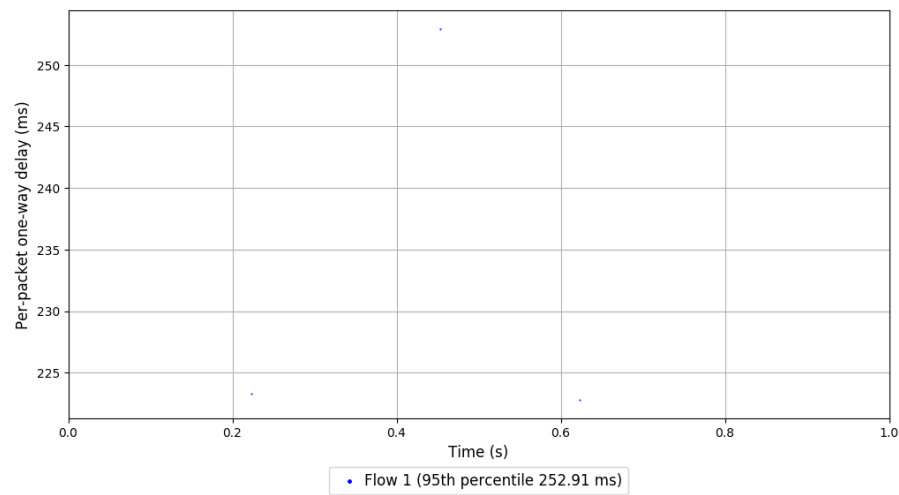
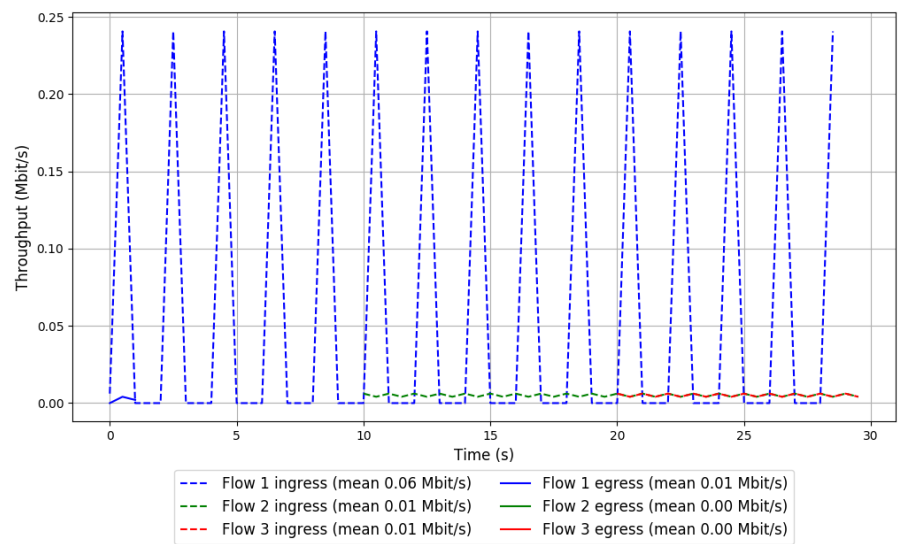
Start at: 2019-03-19 02:01:19

End at: 2019-03-19 02:01:49

Local clock offset: -5.985 ms

Remote clock offset: 3.327 ms

Run 3: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

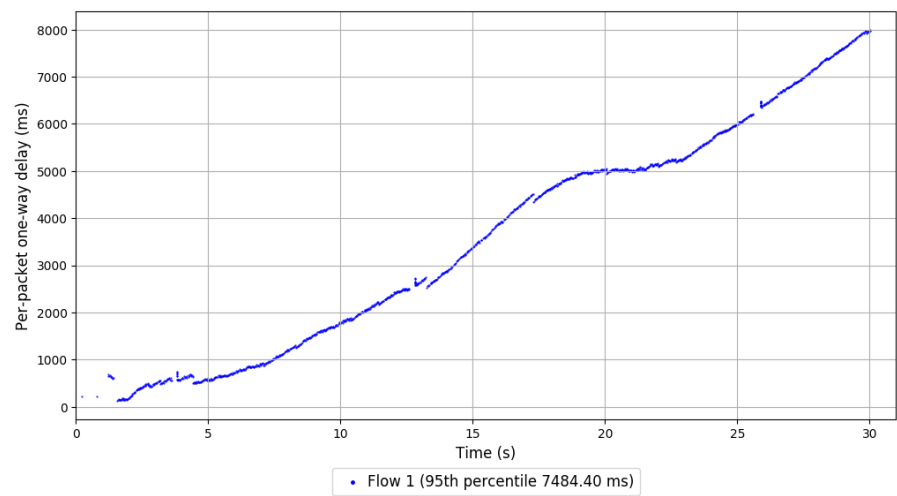
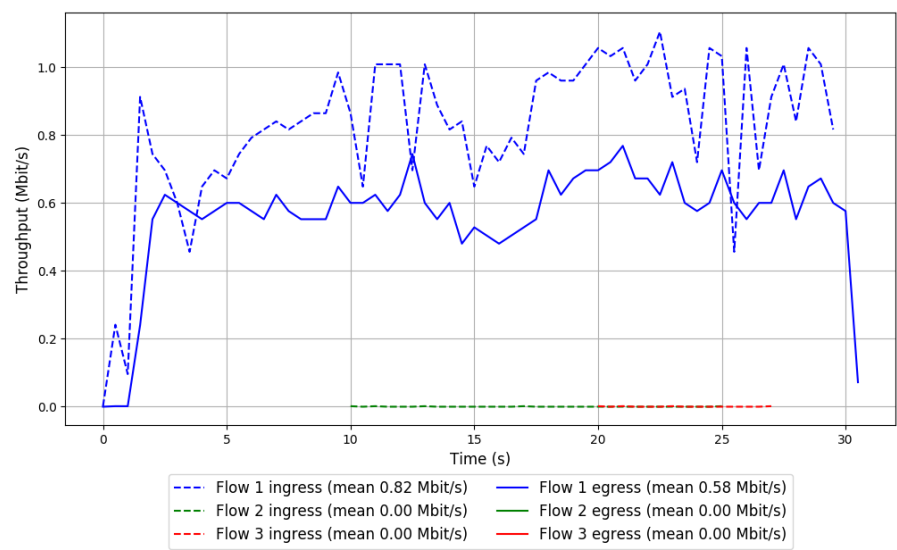
Start at: 2019-03-19 01:11:06

End at: 2019-03-19 01:11:36

Local clock offset: -6.854 ms

Remote clock offset: 1.823 ms

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

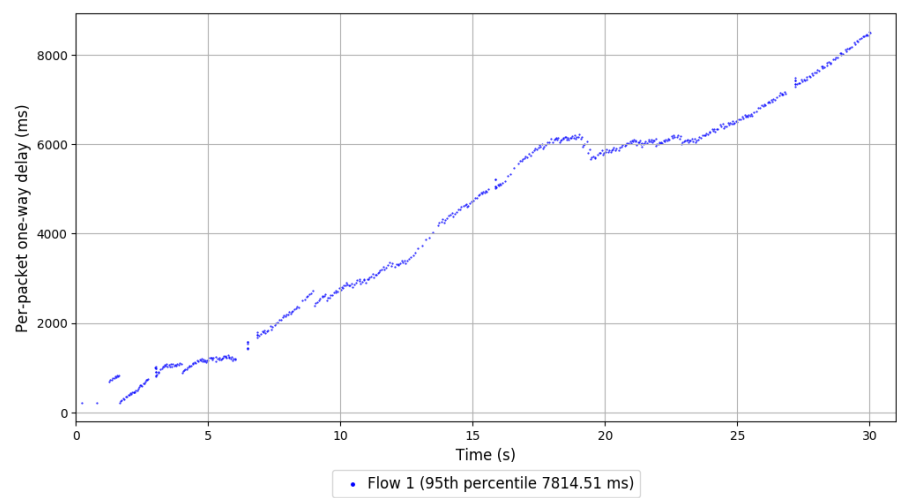
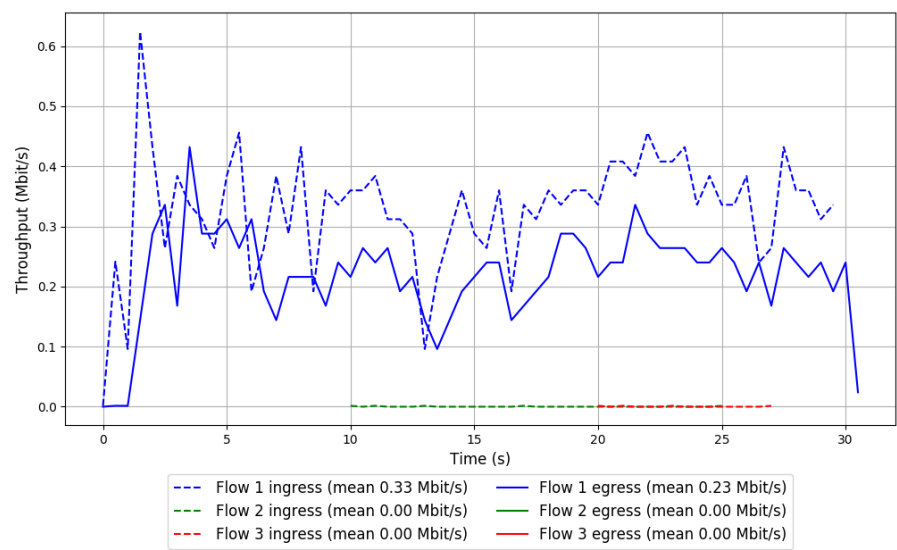
Start at: 2019-03-19 01:36:51

End at: 2019-03-19 01:37:21

Local clock offset: -5.401 ms

Remote clock offset: 1.811 ms

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

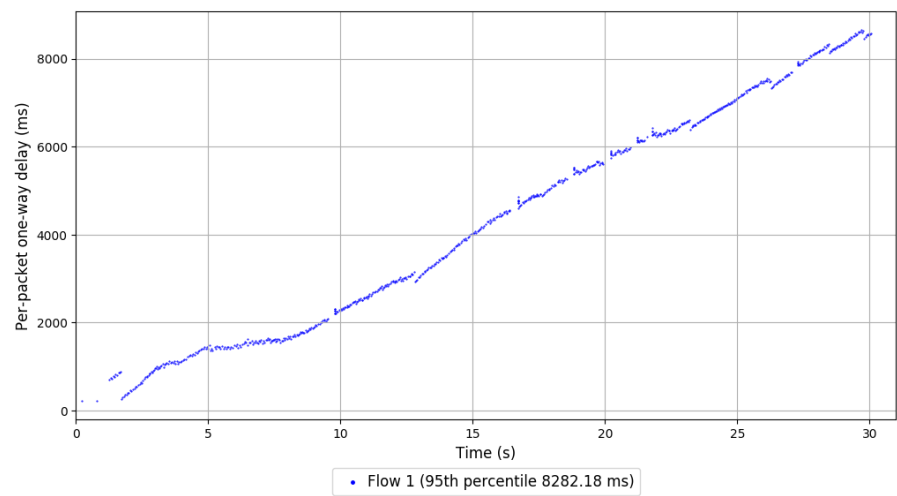
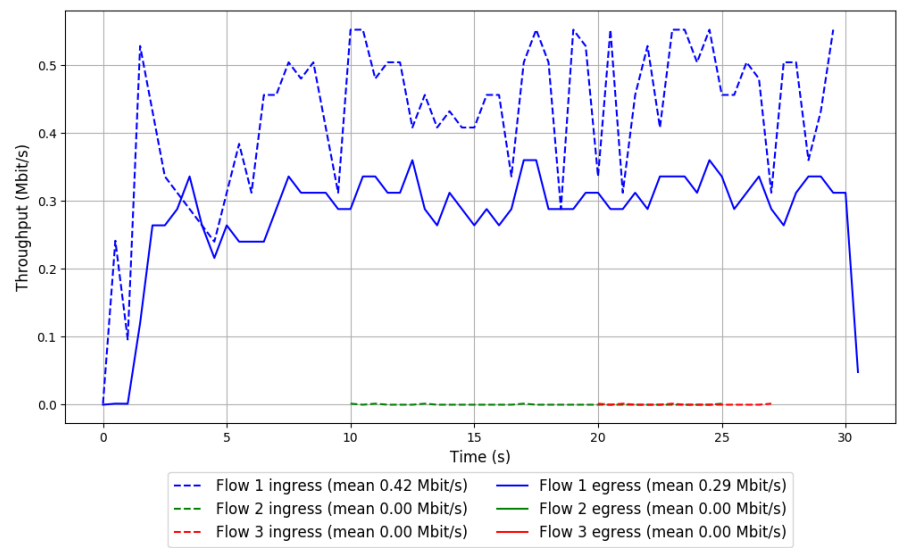
Start at: 2019-03-19 02:02:33

End at: 2019-03-19 02:03:03

Local clock offset: -6.843 ms

Remote clock offset: 8.206 ms

Run 3: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

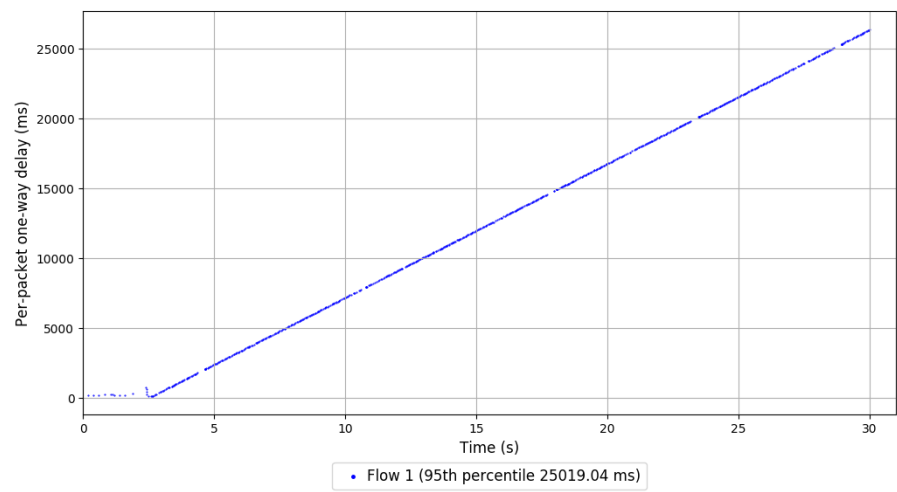
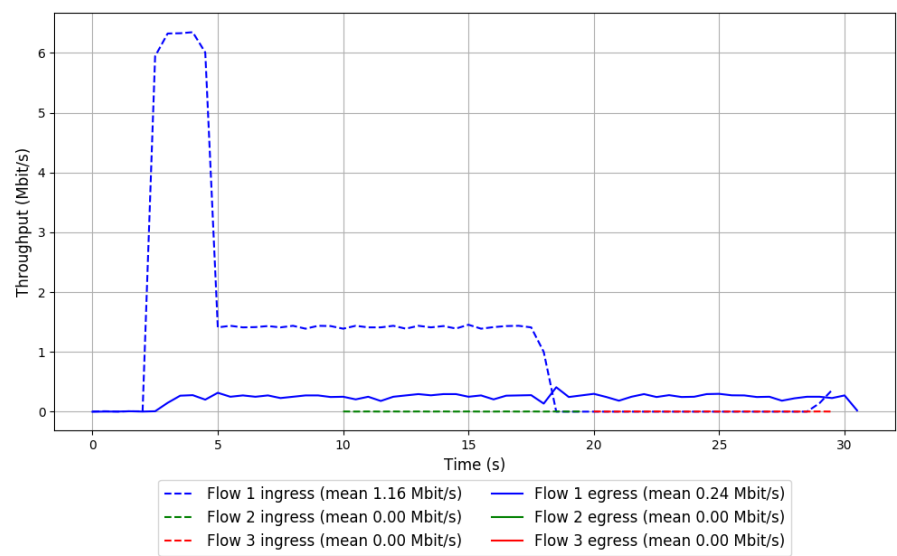
Start at: 2019-03-19 01:00:05

End at: 2019-03-19 01:00:36

Local clock offset: -6.882 ms

Remote clock offset: -3.041 ms

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

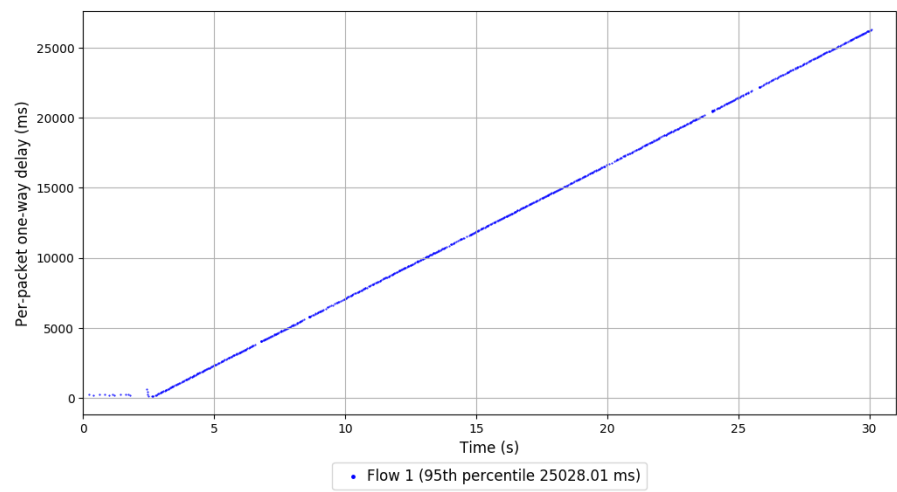
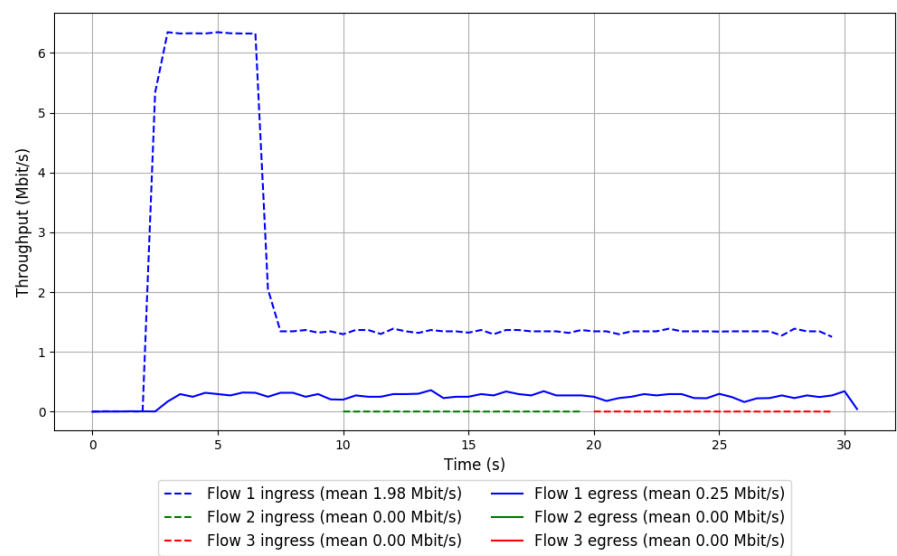
Start at: 2019-03-19 01:25:49

End at: 2019-03-19 01:26:19

Local clock offset: -5.682 ms

Remote clock offset: 3.971 ms

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

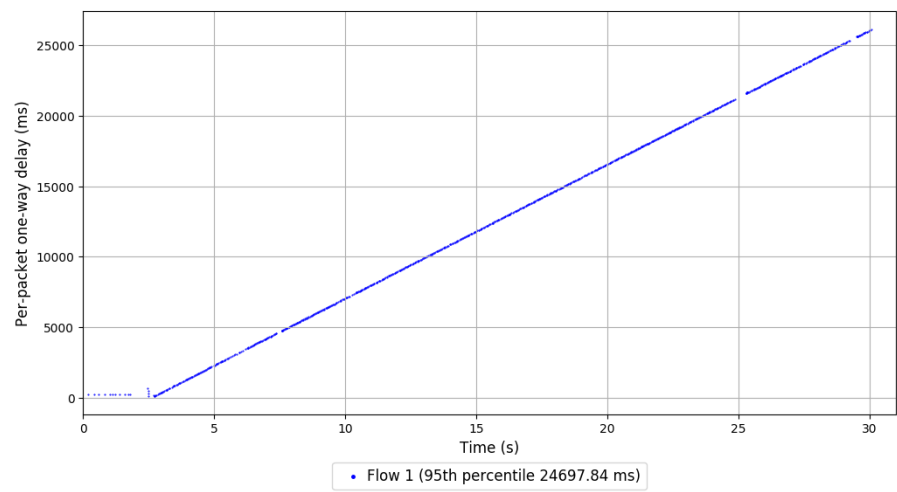
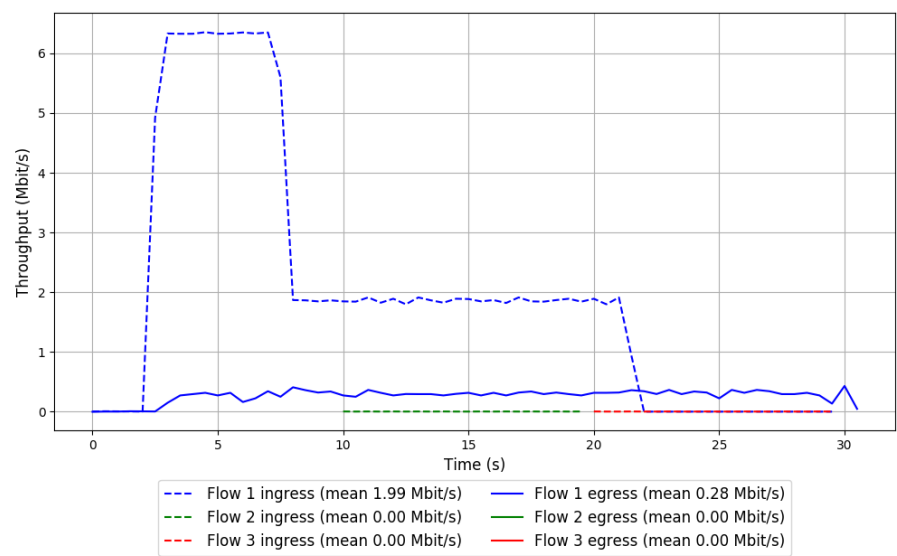
Start at: 2019-03-19 01:51:32

End at: 2019-03-19 01:52:02

Local clock offset: -6.369 ms

Remote clock offset: 5.785 ms

Run 3: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

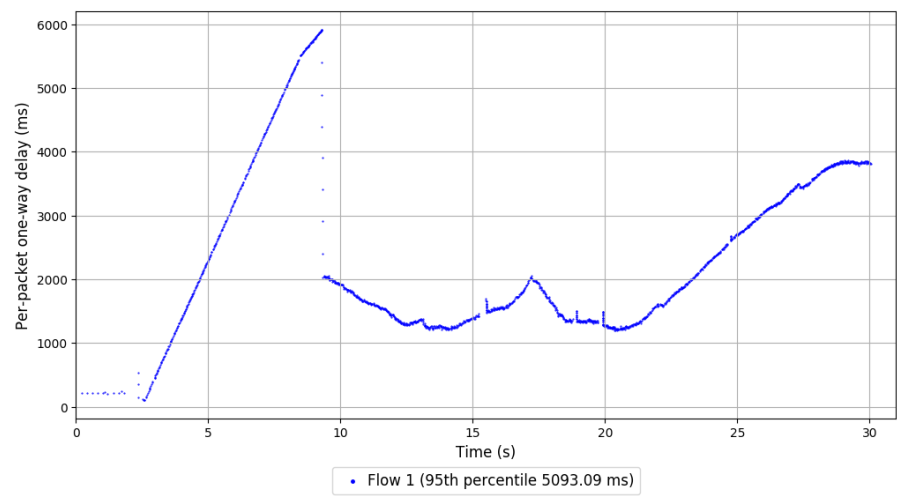
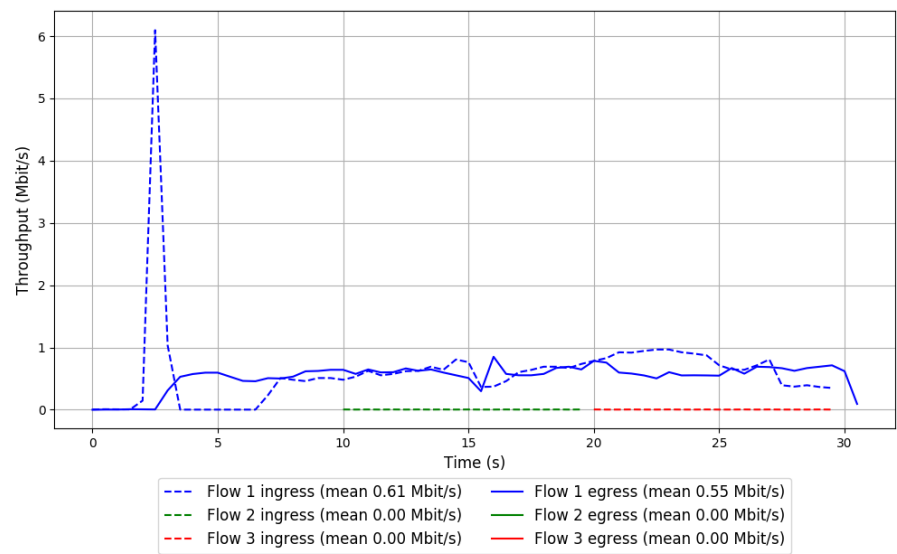
Start at: 2019-03-19 01:08:39

End at: 2019-03-19 01:09:09

Local clock offset: -7.363 ms

Remote clock offset: 4.774 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

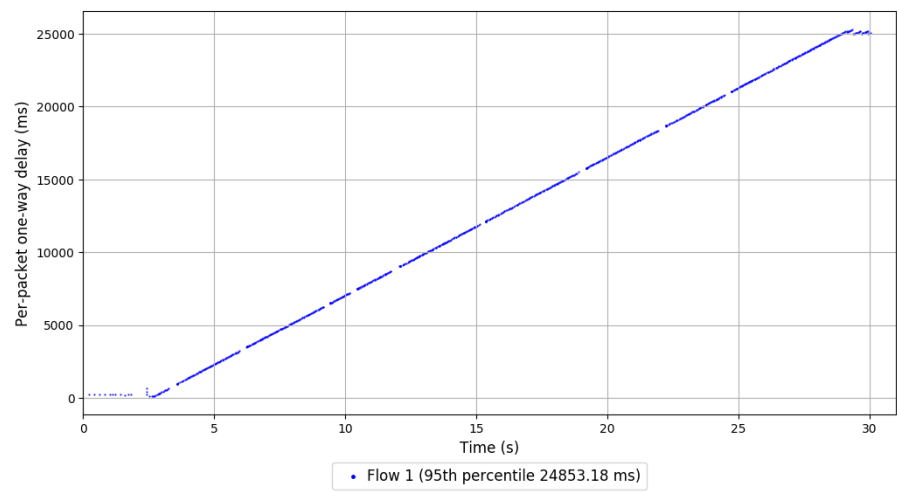
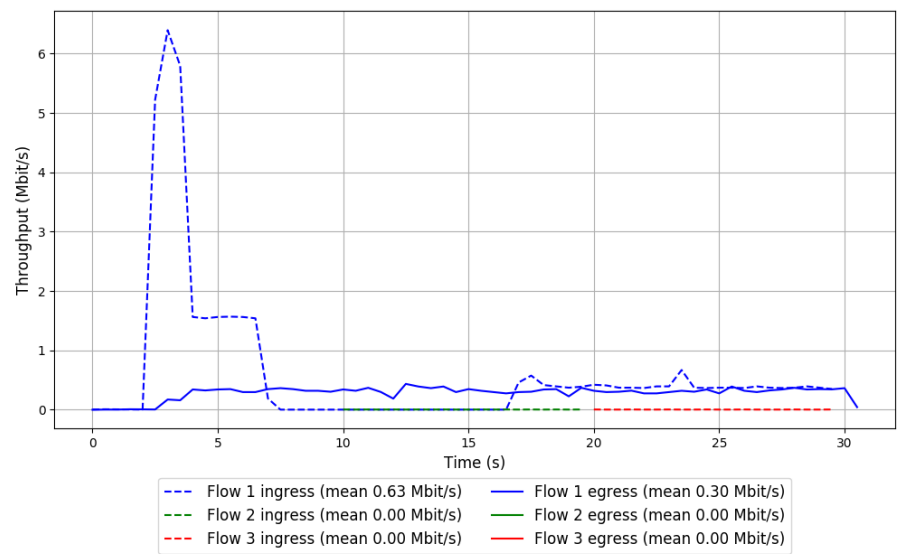
Start at: 2019-03-19 01:34:24

End at: 2019-03-19 01:34:54

Local clock offset: -6.131 ms

Remote clock offset: 7.131 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

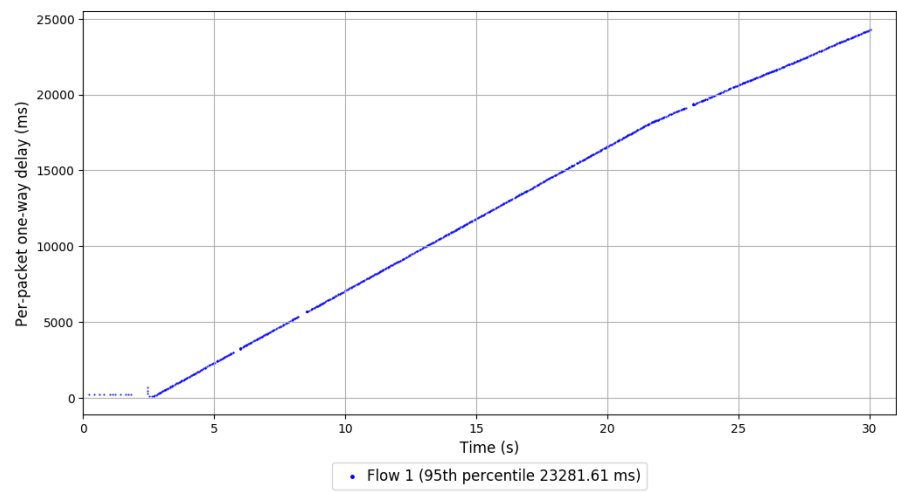
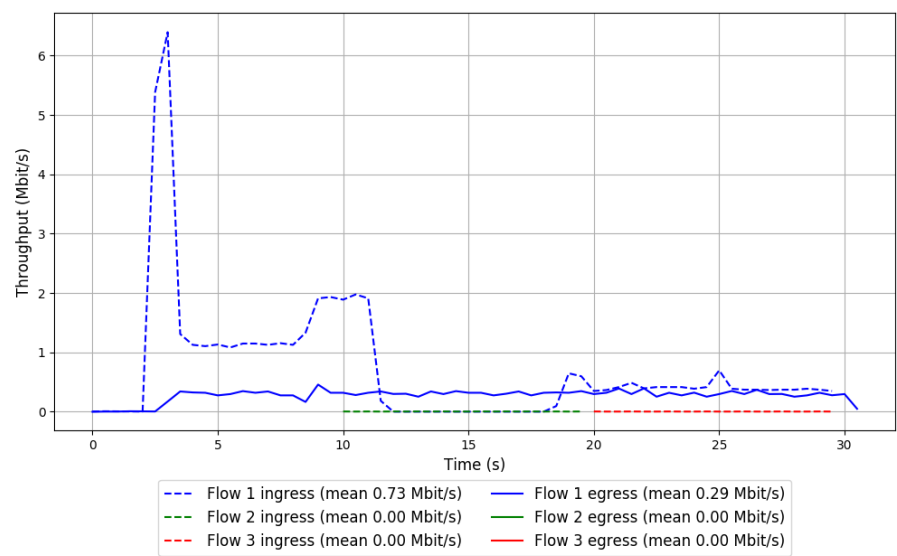
Start at: 2019-03-19 02:00:06

End at: 2019-03-19 02:00:36

Local clock offset: -6.675 ms

Remote clock offset: 8.188 ms

Run 3: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-03-19 00:47:49

End at: 2019-03-19 00:48:19

Local clock offset: -4.575 ms

Remote clock offset: -9.4 ms

Run 1: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Indigo

Start at: 2019-03-19 01:13:33

End at: 2019-03-19 01:14:03

Local clock offset: -7.641 ms

Remote clock offset: 2.234 ms

Run 2: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Indigo

Start at: 2019-03-19 01:39:18

End at: 2019-03-19 01:39:48

Local clock offset: -6.16 ms

Remote clock offset: 7.744 ms

Below is generated by plot.py at 2019-03-19 02:03:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 1115.920 ms

Loss rate: 0.29%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 1035.919 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 1137.057 ms

Loss rate: 0.50%

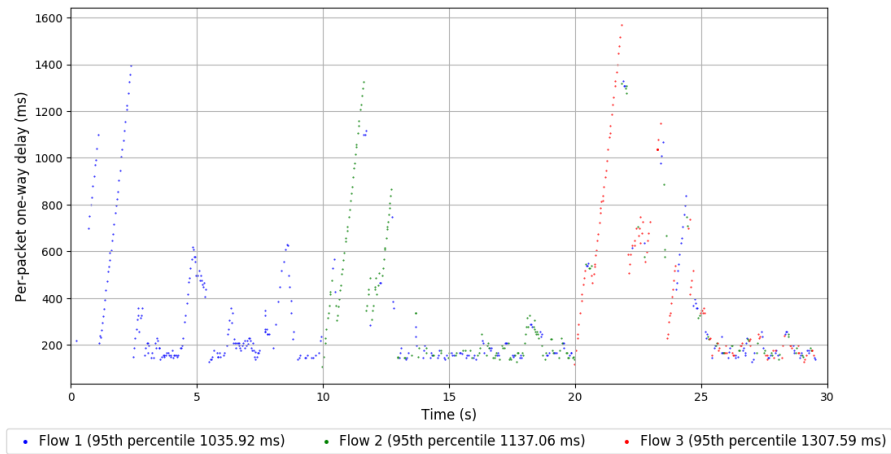
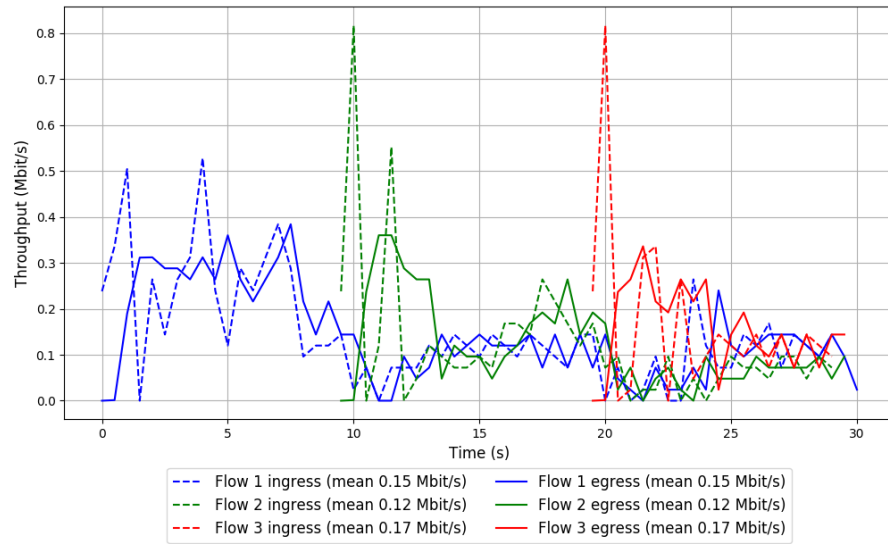
-- Flow 3:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 1307.590 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-19 00:50:16

End at: 2019-03-19 00:50:46

Local clock offset: -4.955 ms

Remote clock offset: -9.657 ms

Run 1: Report of Indigo-MusesC3 — Data Link

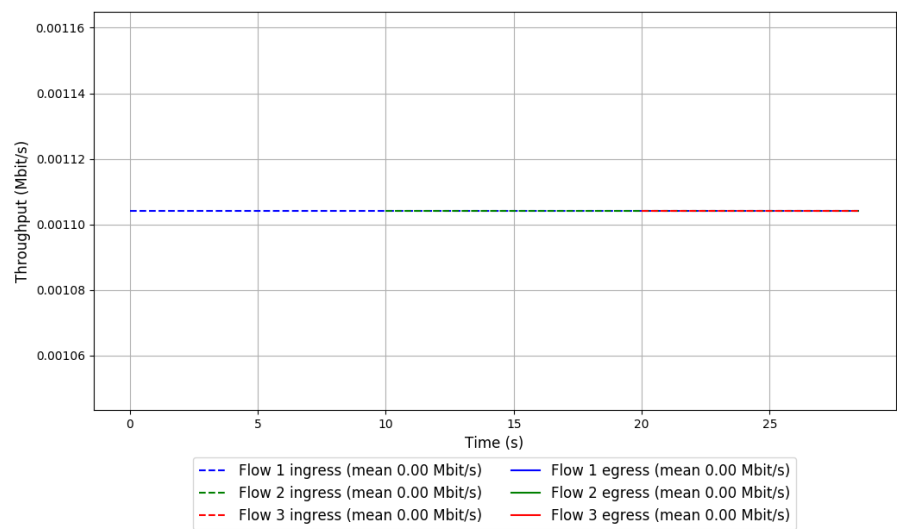


Figure is missing

Run 2: Statistics of Indigo-MusesC3

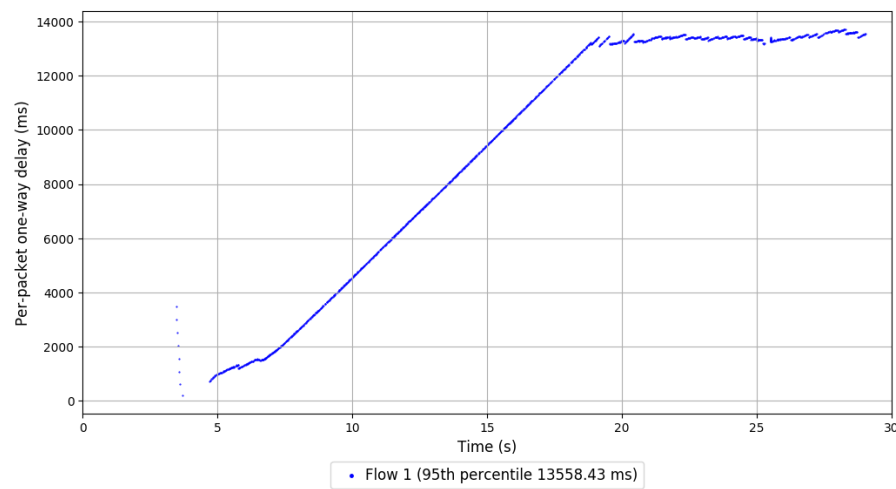
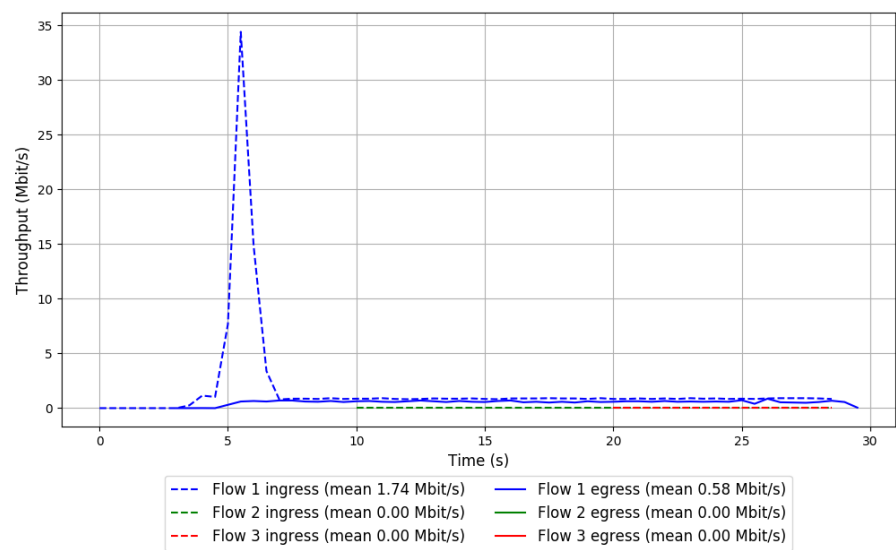
Start at: 2019-03-19 01:16:00

End at: 2019-03-19 01:16:30

Local clock offset: -7.075 ms

Remote clock offset: 6.614 ms

Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-19 01:41:44

End at: 2019-03-19 01:42:14

Local clock offset: -6.125 ms

Remote clock offset: 6.571 ms

Run 3: Report of Indigo-MusesC3 — Data Link

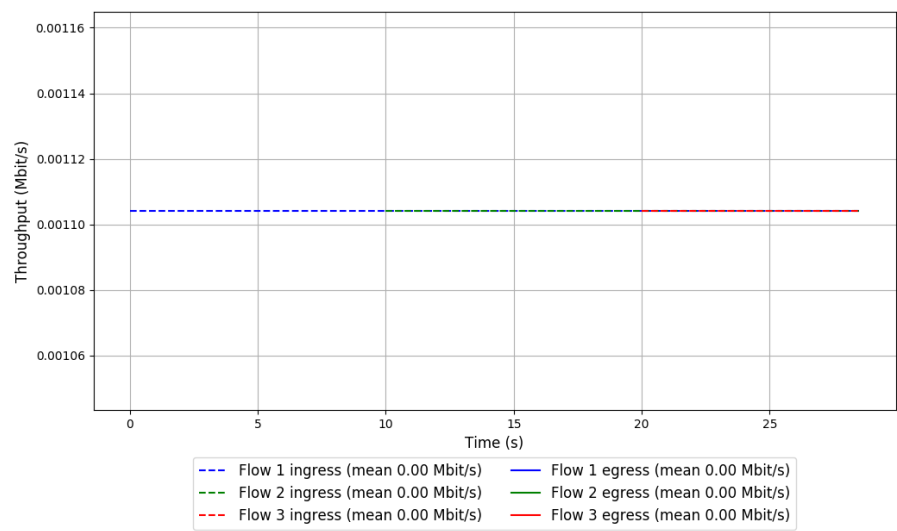


Figure is missing

Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-19 00:55:12

End at: 2019-03-19 00:55:42

Local clock offset: -6.382 ms

Remote clock offset: -3.543 ms

Run 1: Report of Indigo-MusesC5 — Data Link

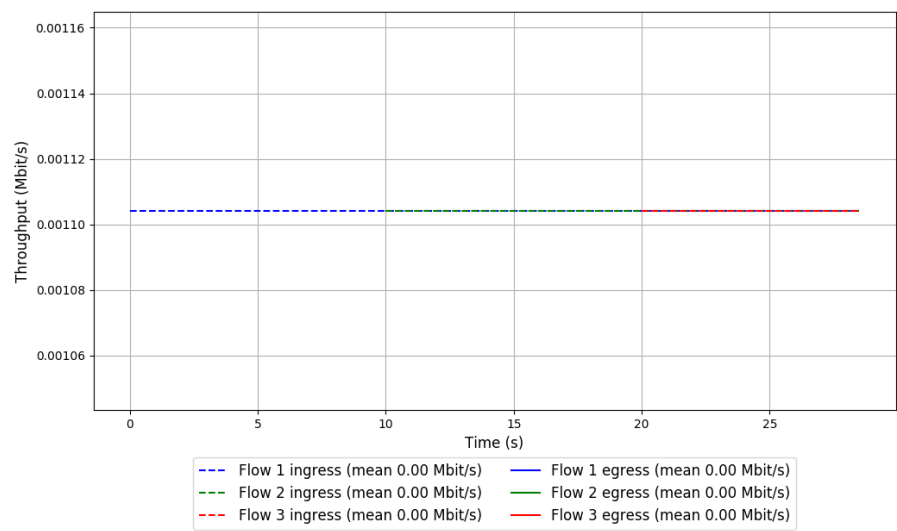


Figure is missing

Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-19 01:20:54

End at: 2019-03-19 01:21:24

Local clock offset: -6.187 ms

Remote clock offset: 8.487 ms

Run 2: Report of Indigo-MusesC5 — Data Link

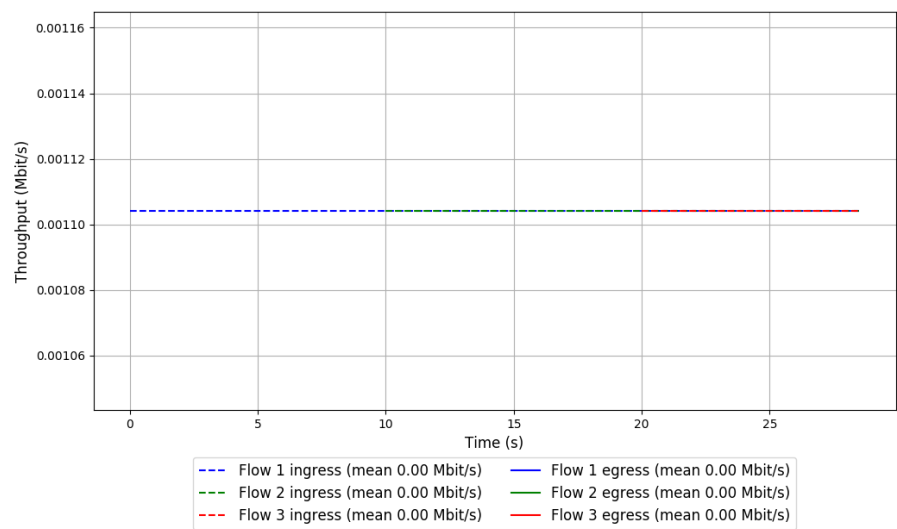


Figure is missing

Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-19 01:46:38

End at: 2019-03-19 01:47:08

Local clock offset: -6.114 ms

Remote clock offset: 2.684 ms

Run 3: Report of Indigo-MusesC5 — Data Link

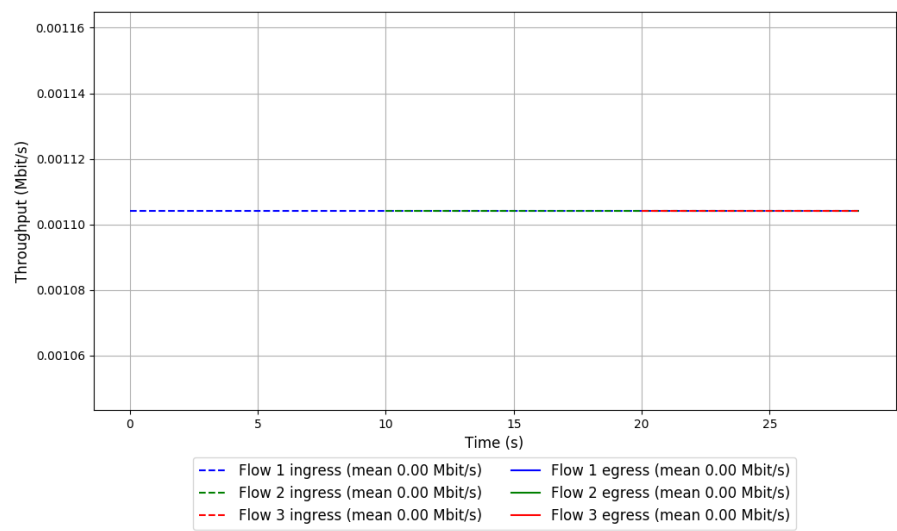


Figure is missing

Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-19 01:07:26

End at: 2019-03-19 01:07:56

Local clock offset: -6.542 ms

Remote clock offset: 0.513 ms

Run 1: Report of Indigo-MusesD — Data Link

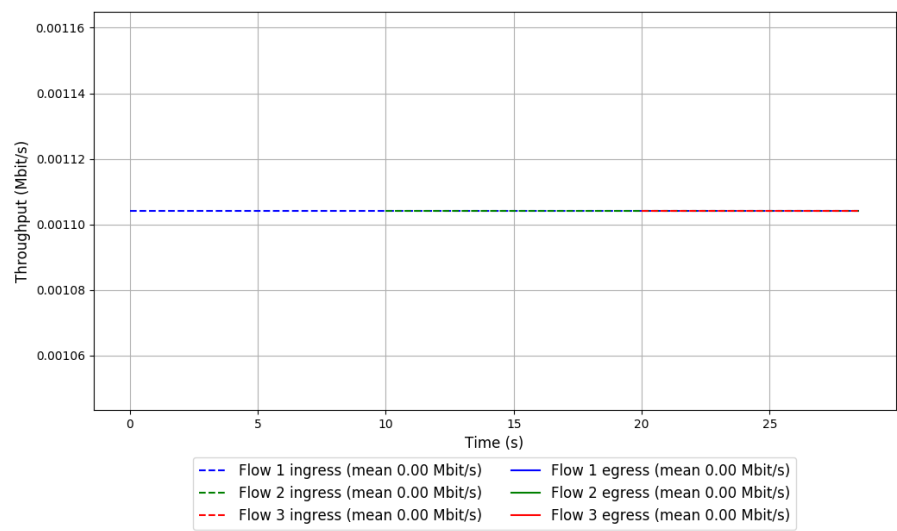


Figure is missing

Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-19 01:33:11

End at: 2019-03-19 01:33:41

Local clock offset: -6.142 ms

Remote clock offset: 8.072 ms

Run 2: Report of Indigo-MusesD — Data Link

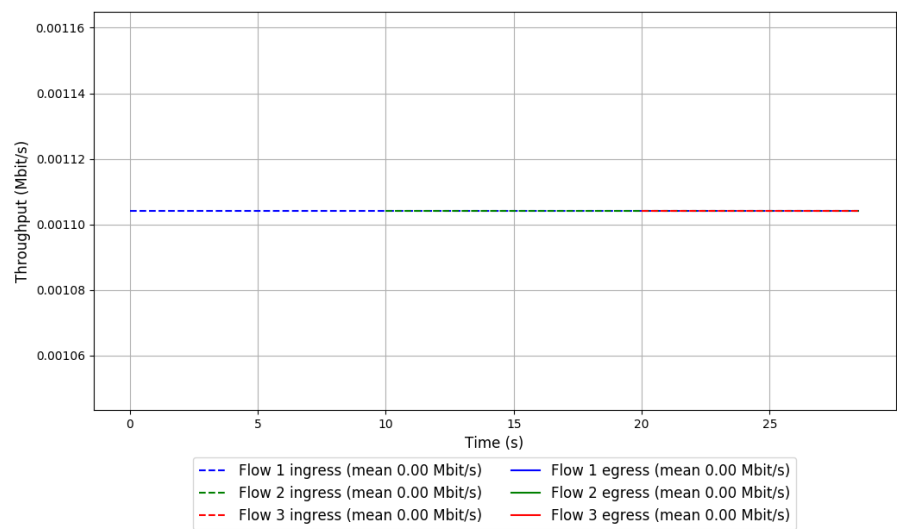


Figure is missing

Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-19 01:58:53

End at: 2019-03-19 01:59:23

Local clock offset: -6.639 ms

Remote clock offset: 6.869 ms

Run 3: Report of Indigo-MusesD — Data Link

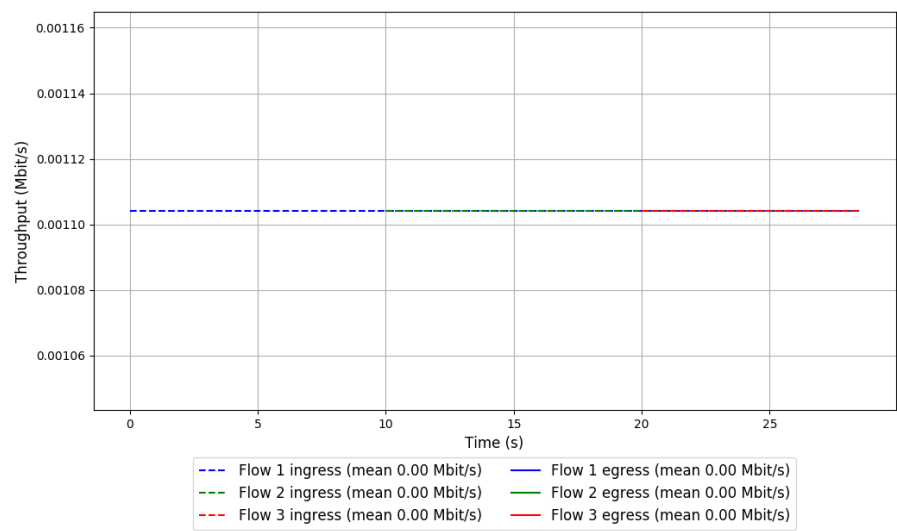


Figure is missing

Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-19 00:57:39

End at: 2019-03-19 00:58:09

Local clock offset: -6.681 ms

Remote clock offset: -2.179 ms

Run 1: Report of Indigo-MusesT — Data Link

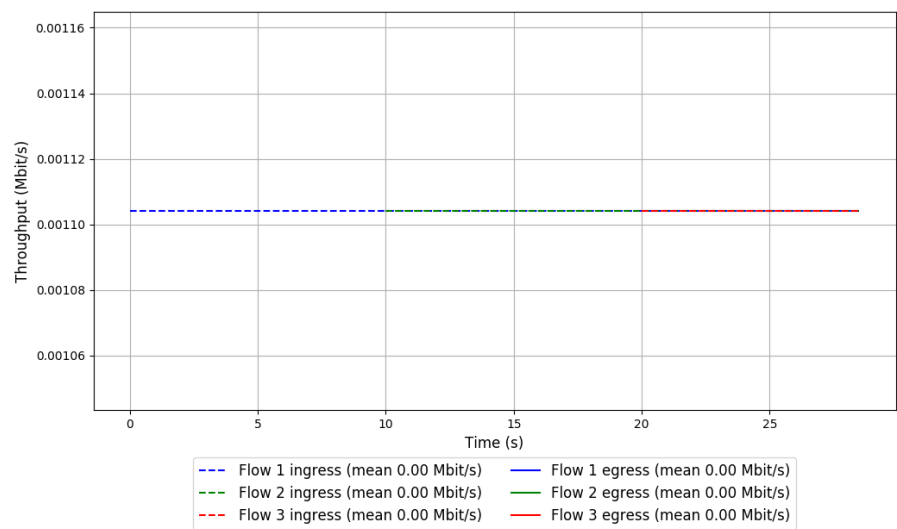


Figure is missing

Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-19 01:23:21

End at: 2019-03-19 01:23:51

Local clock offset: -5.916 ms

Remote clock offset: 8.525 ms

Run 2: Report of Indigo-MusesT — Data Link

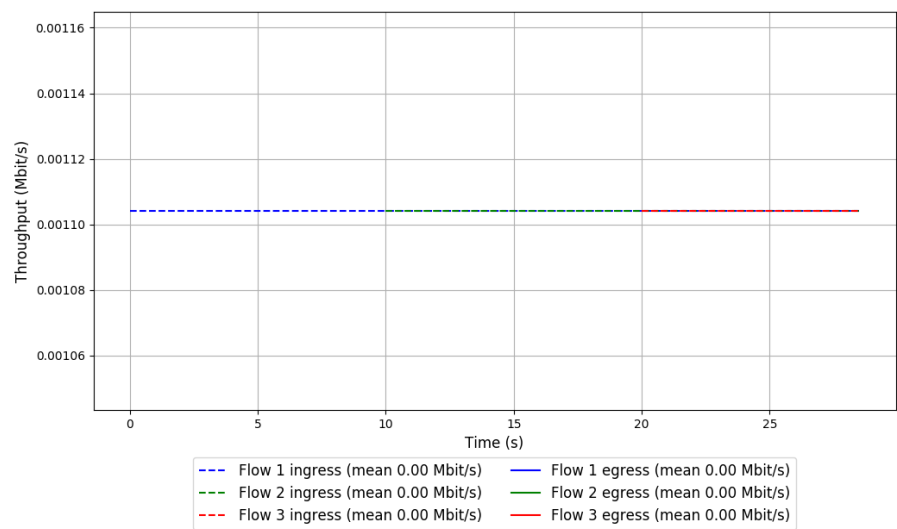


Figure is missing

Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-19 01:49:05

End at: 2019-03-19 01:49:35

Local clock offset: -6.309 ms

Remote clock offset: 7.669 ms

Run 3: Report of Indigo-MusesT — Data Link

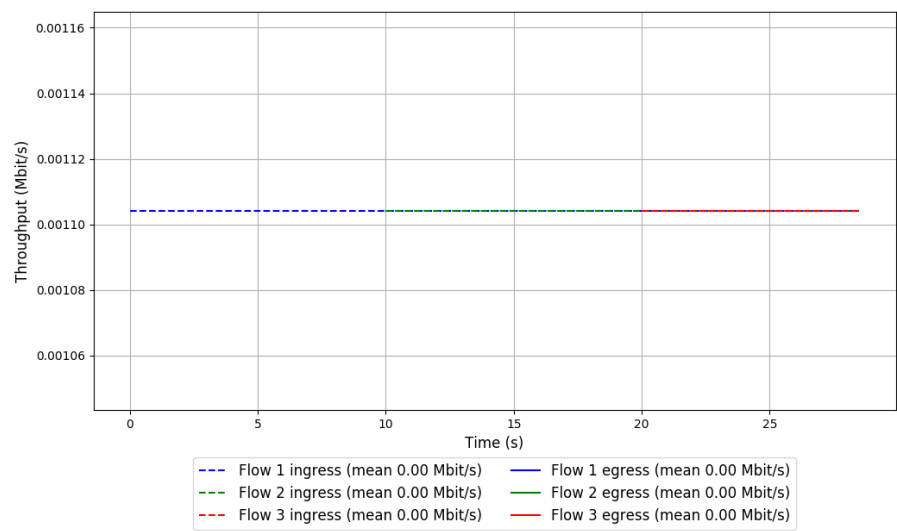


Figure is missing

Run 1: Statistics of LEDBAT

Start at: 2019-03-19 00:52:45

End at: 2019-03-19 00:53:15

Local clock offset: -6.102 ms

Remote clock offset: -7.293 ms

Run 1: Report of LEDBAT — Data Link

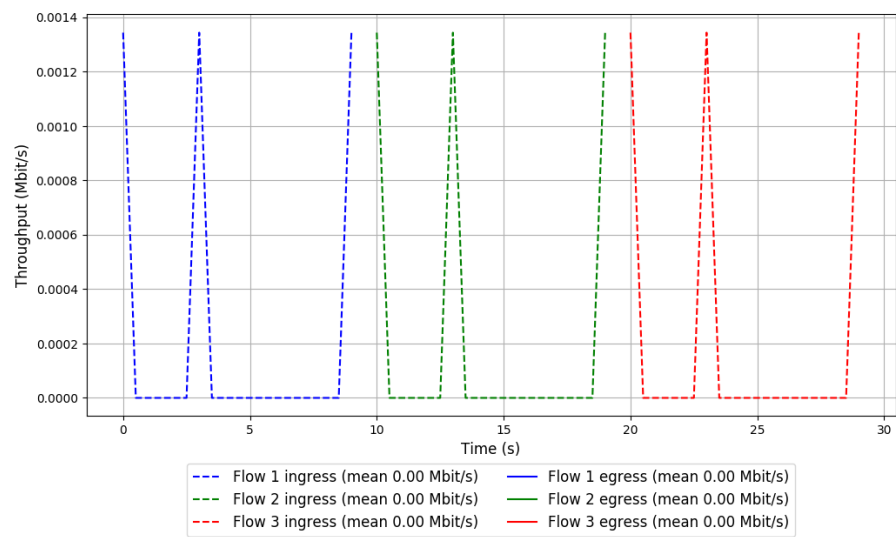


Figure is missing

Run 2: Statistics of LEDBAT

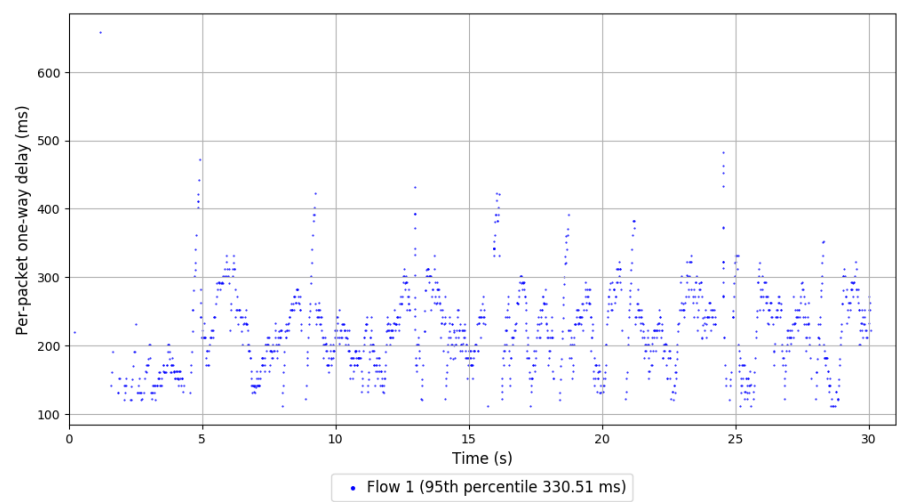
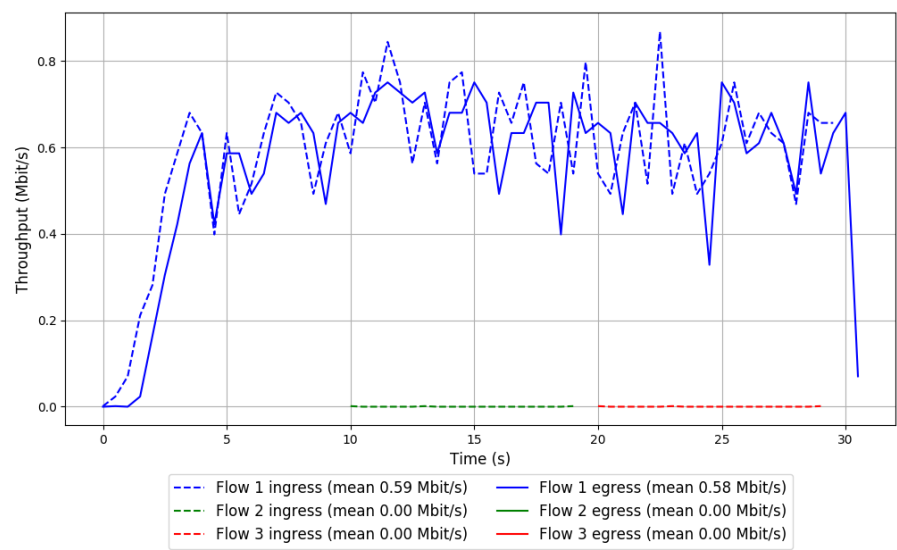
Start at: 2019-03-19 01:18:27

End at: 2019-03-19 01:18:57

Local clock offset: -7.313 ms

Remote clock offset: 6.052 ms

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

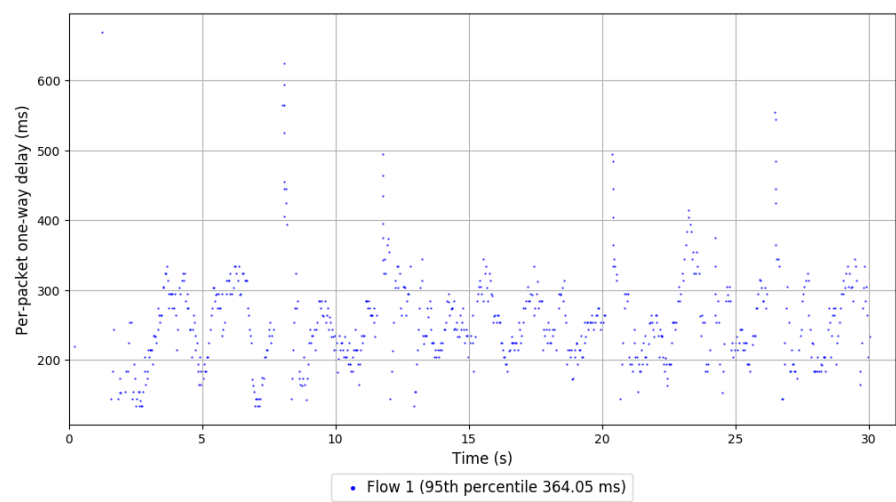
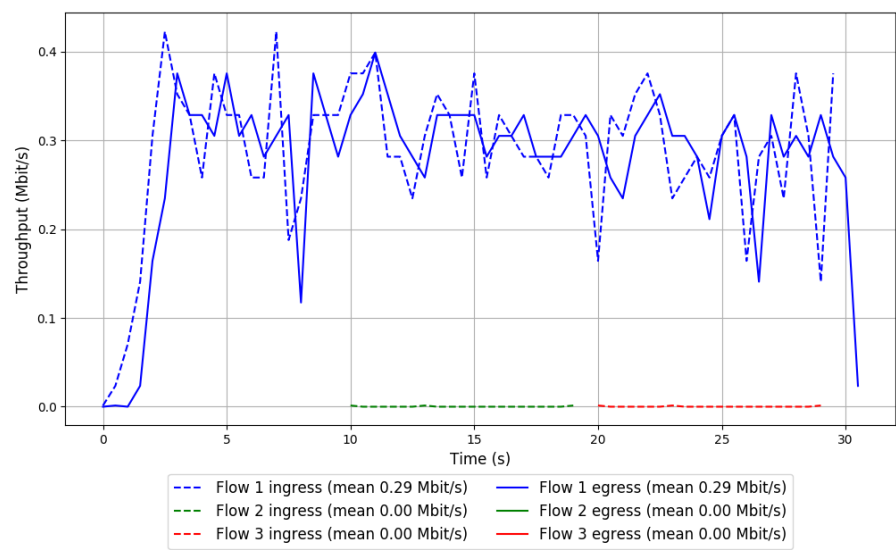
Start at: 2019-03-19 01:44:11

End at: 2019-03-19 01:44:41

Local clock offset: -5.374 ms

Remote clock offset: 6.59 ms

Run 3: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

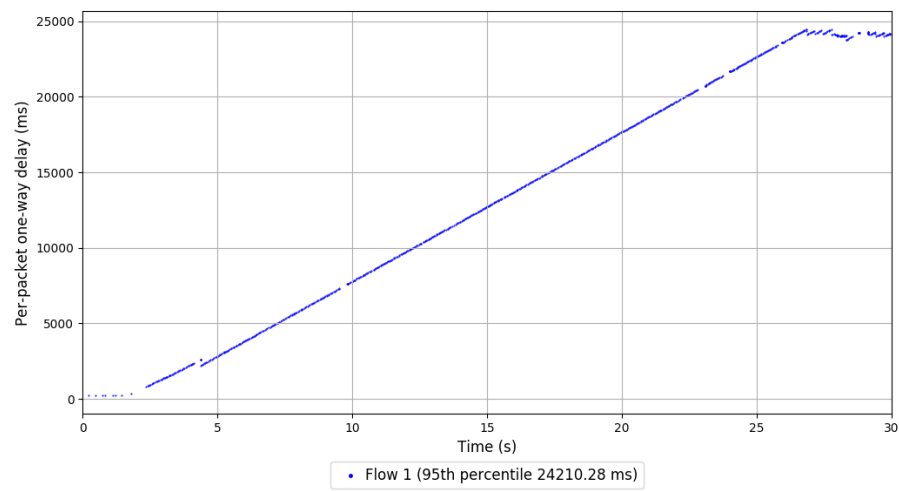
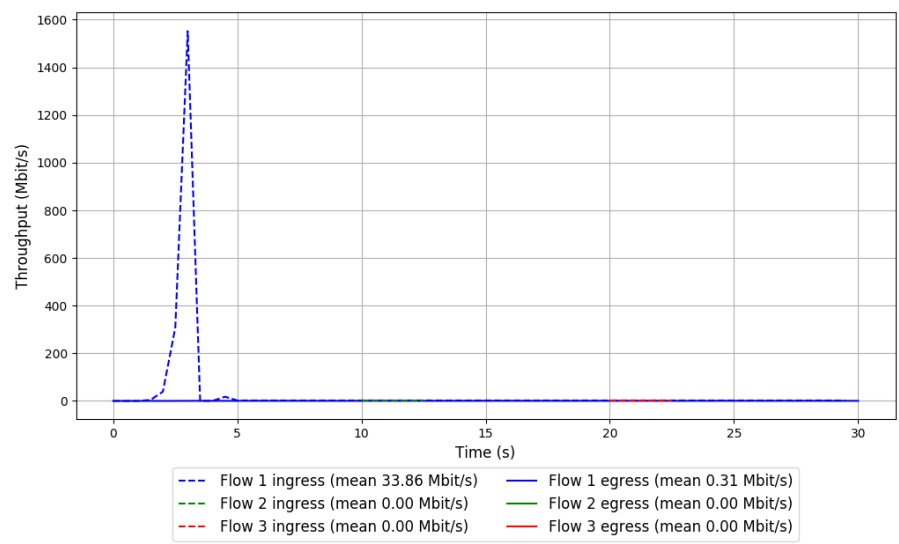
Start at: 2019-03-19 00:51:30

End at: 2019-03-19 00:52:00

Local clock offset: -5.981 ms

Remote clock offset: -9.831 ms

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

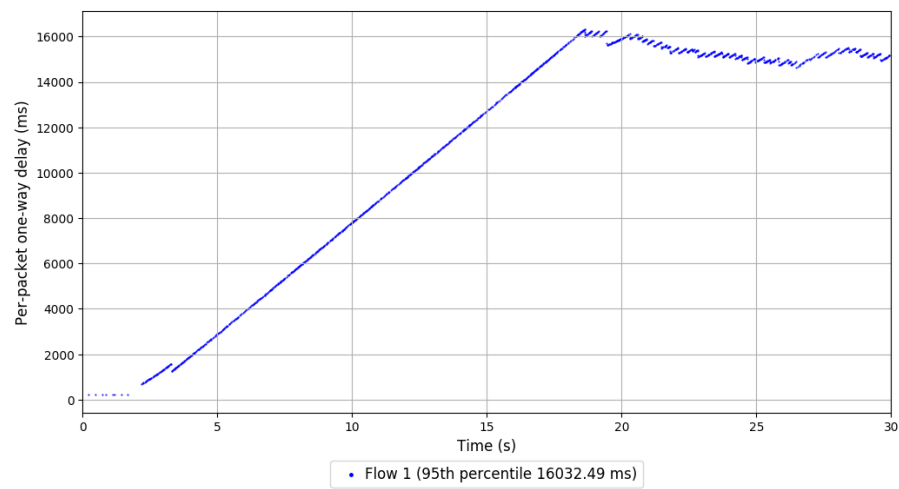
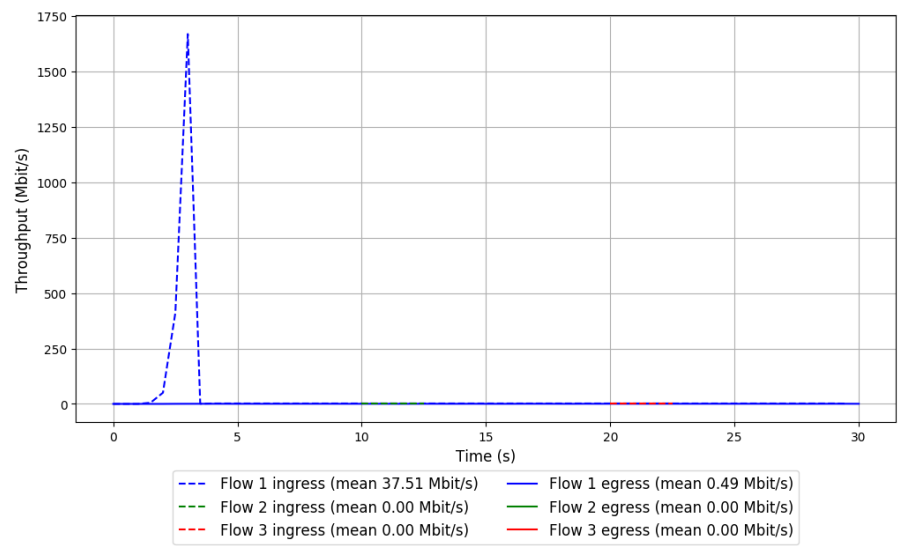
Start at: 2019-03-19 01:17:13

End at: 2019-03-19 01:17:43

Local clock offset: -7.61 ms

Remote clock offset: 6.784 ms

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

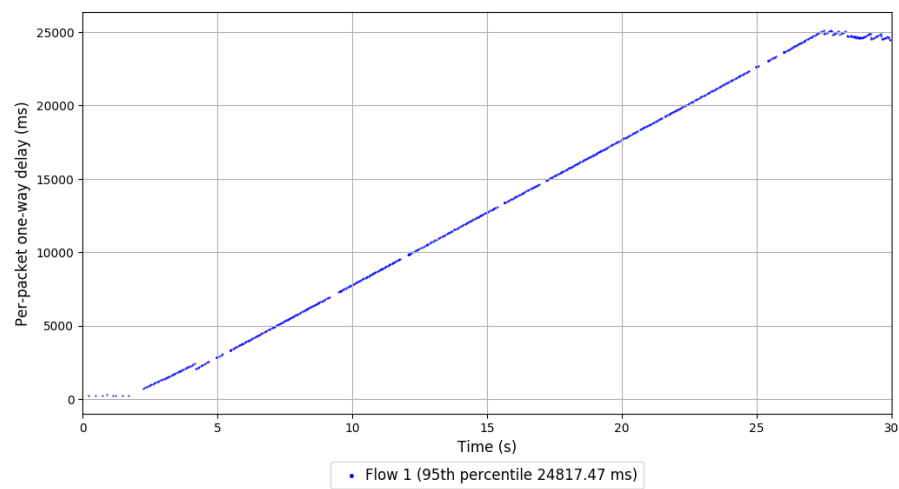
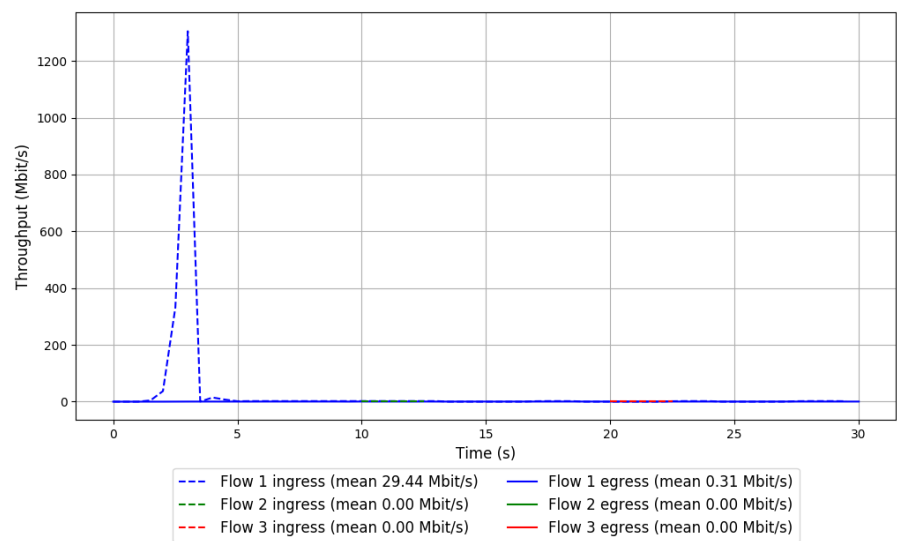
Start at: 2019-03-19 01:42:58

End at: 2019-03-19 01:43:28

Local clock offset: -6.068 ms

Remote clock offset: 7.82 ms

Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

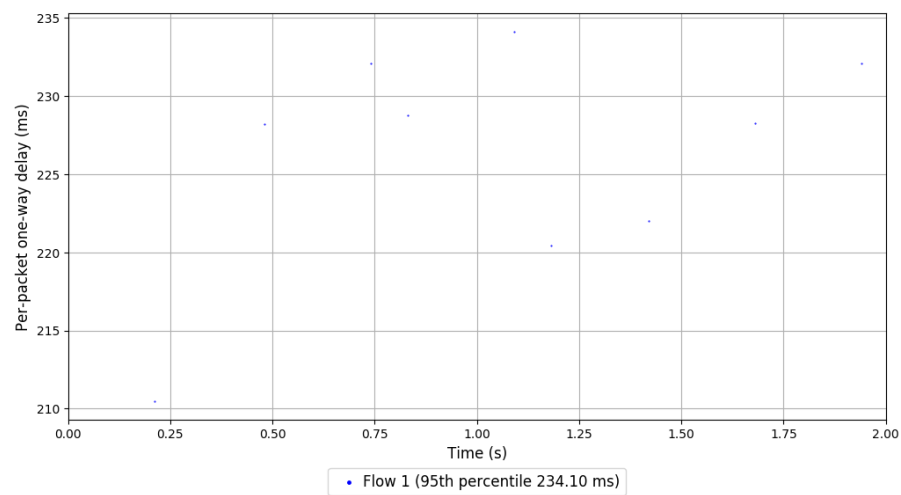
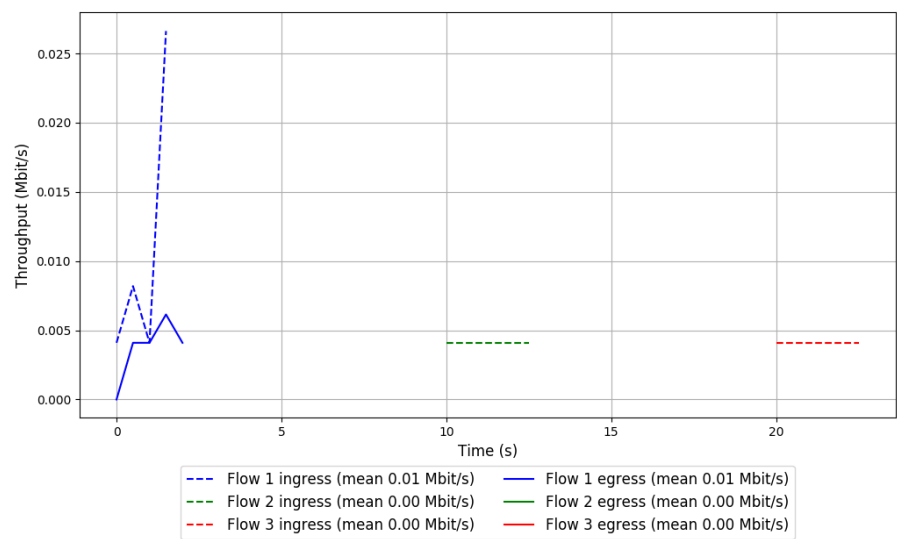
Start at: 2019-03-19 01:04:59

End at: 2019-03-19 01:05:29

Local clock offset: -7.16 ms

Remote clock offset: 3.468 ms

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

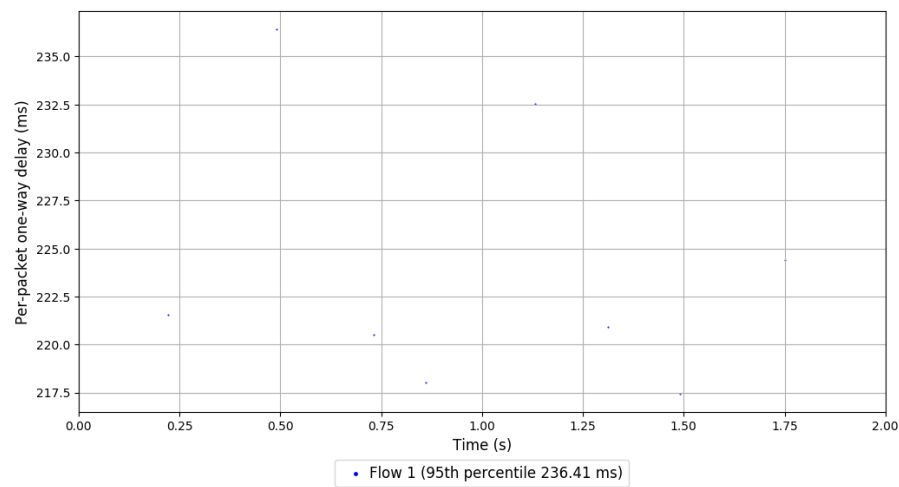
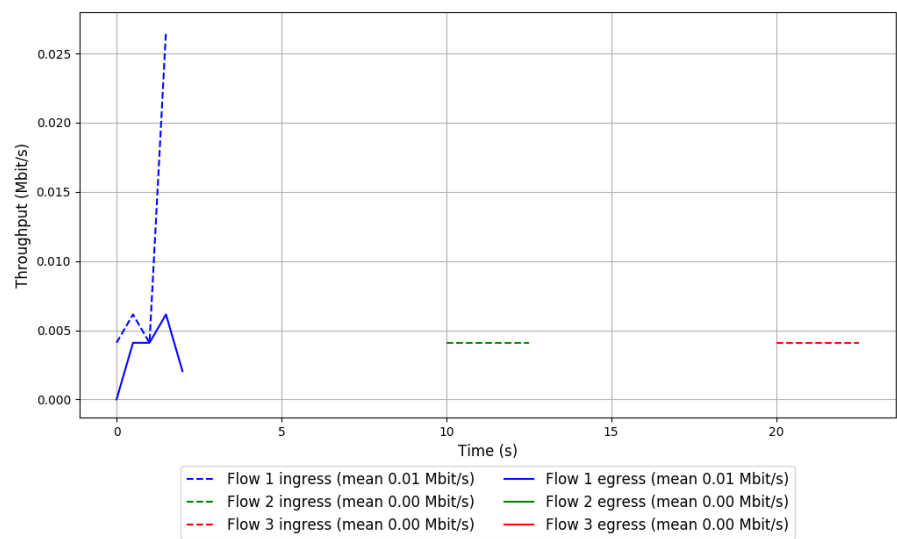
Start at: 2019-03-19 01:30:44

End at: 2019-03-19 01:31:14

Local clock offset: -6.212 ms

Remote clock offset: 8.428 ms

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

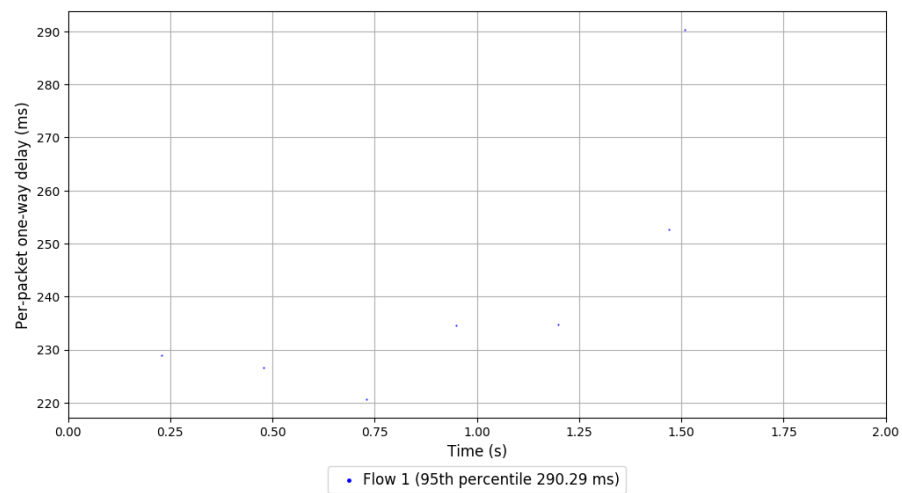
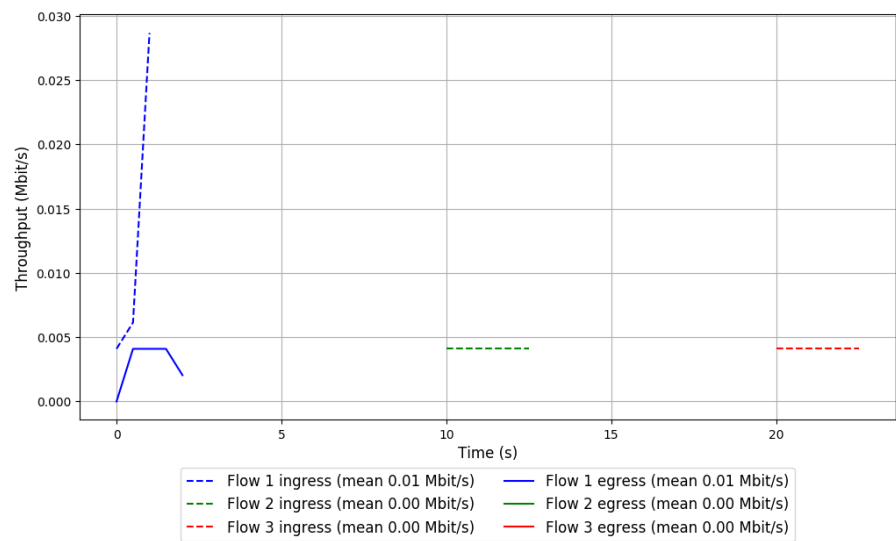
Start at: 2019-03-19 01:56:26

End at: 2019-03-19 01:56:56

Local clock offset: -6.565 ms

Remote clock offset: 5.755 ms

Run 3: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-03-19 01:03:45

End at: 2019-03-19 01:04:15

Local clock offset: -6.308 ms

Remote clock offset: -0.753 ms

Run 1: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of QUIC Cubic

Start at: 2019-03-19 01:29:31

End at: 2019-03-19 01:30:01

Local clock offset: -6.253 ms

Remote clock offset: 3.785 ms

Run 2: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of QUIC Cubic

Start at: 2019-03-19 01:55:12

End at: 2019-03-19 01:55:42

Local clock offset: -6.518 ms

Remote clock offset: 2.99 ms

Run 3: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of SCReAM

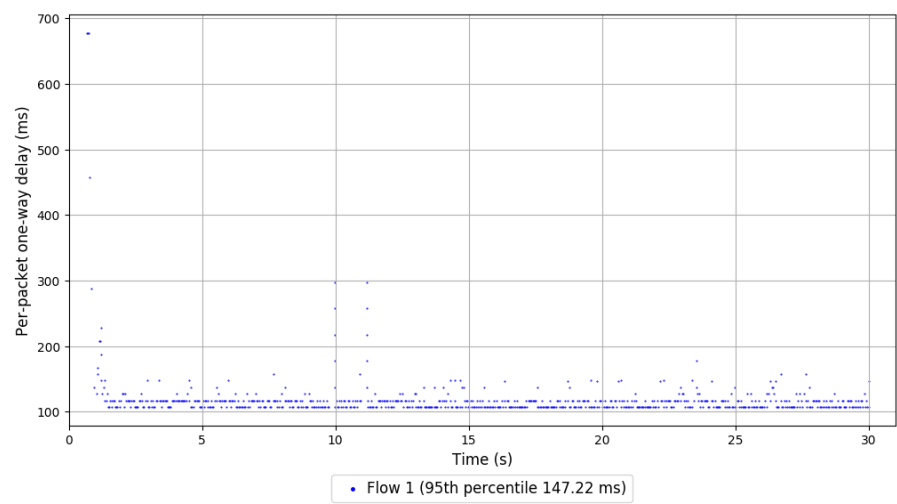
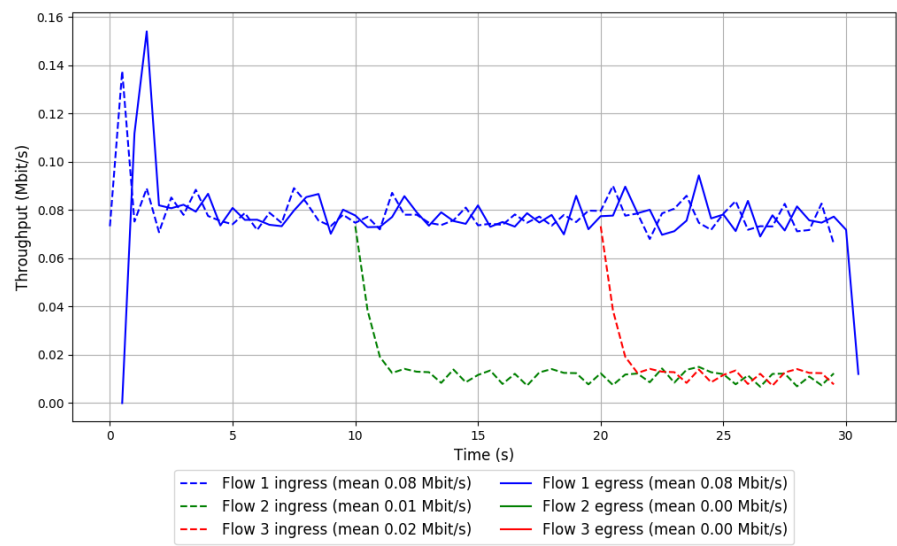
Start at: 2019-03-19 01:02:32

End at: 2019-03-19 01:03:02

Local clock offset: -6.248 ms

Remote clock offset: 1.3 ms

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

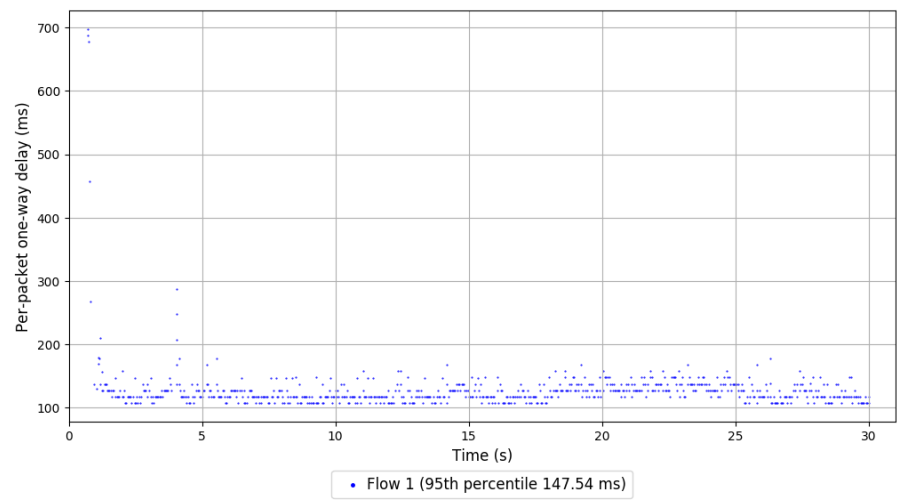
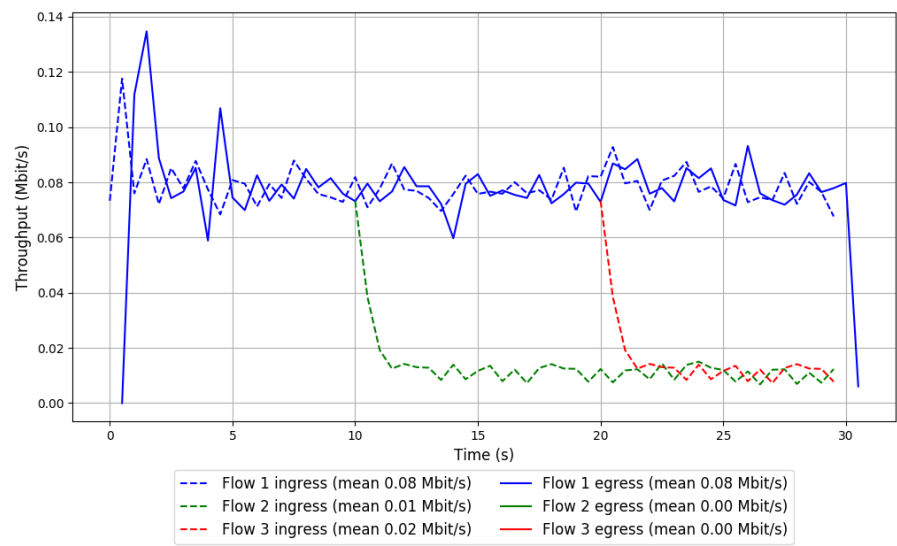
Start at: 2019-03-19 01:28:17

End at: 2019-03-19 01:28:47

Local clock offset: -5.53 ms

Remote clock offset: 6.68 ms

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

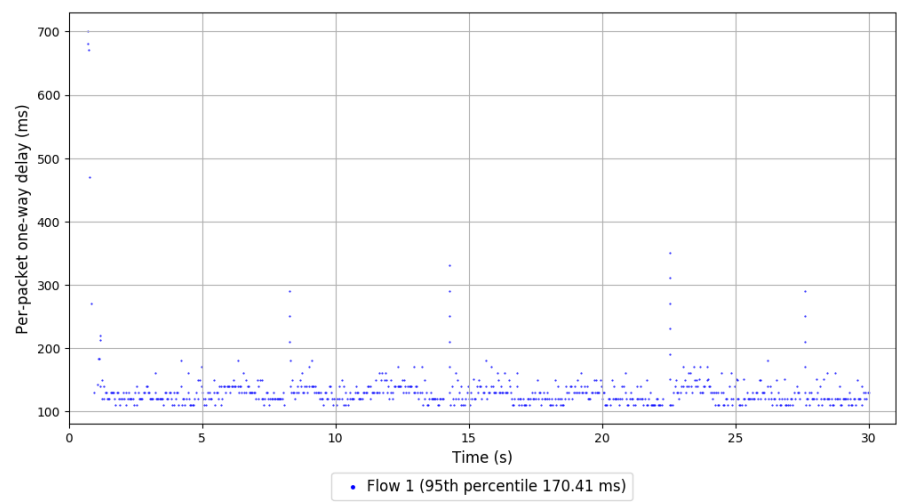
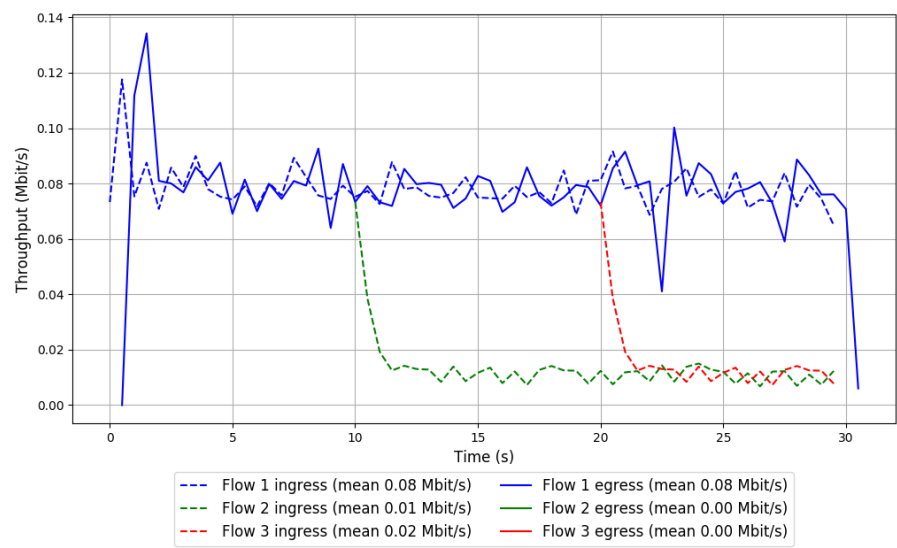
Start at: 2019-03-19 01:53:59

End at: 2019-03-19 01:54:29

Local clock offset: -6.489 ms

Remote clock offset: 8.018 ms

Run 3: Report of SReAM — Data Link



Run 1: Statistics of Sprout

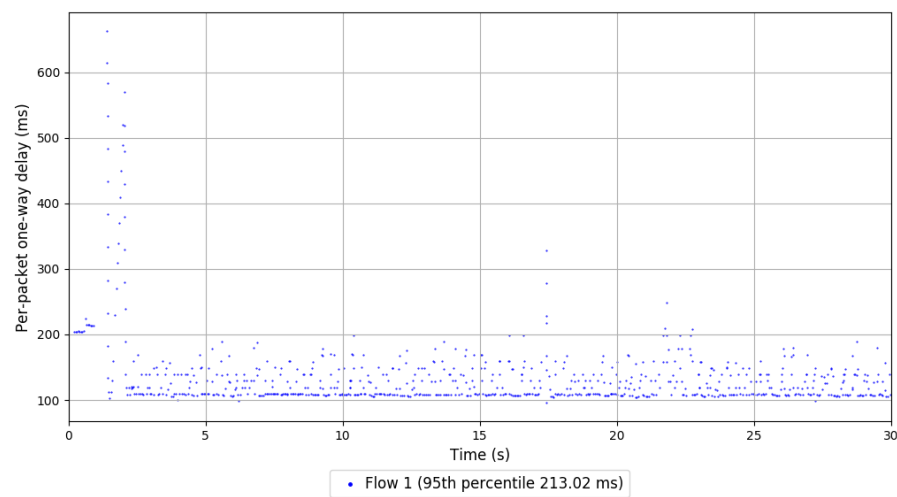
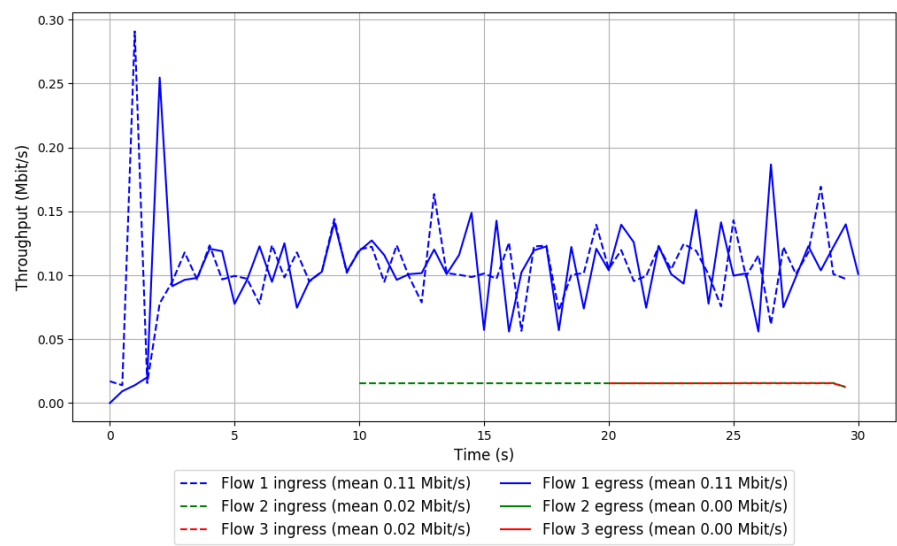
Start at: 2019-03-19 00:56:25

End at: 2019-03-19 00:56:55

Local clock offset: -6.556 ms

Remote clock offset: -2.218 ms

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

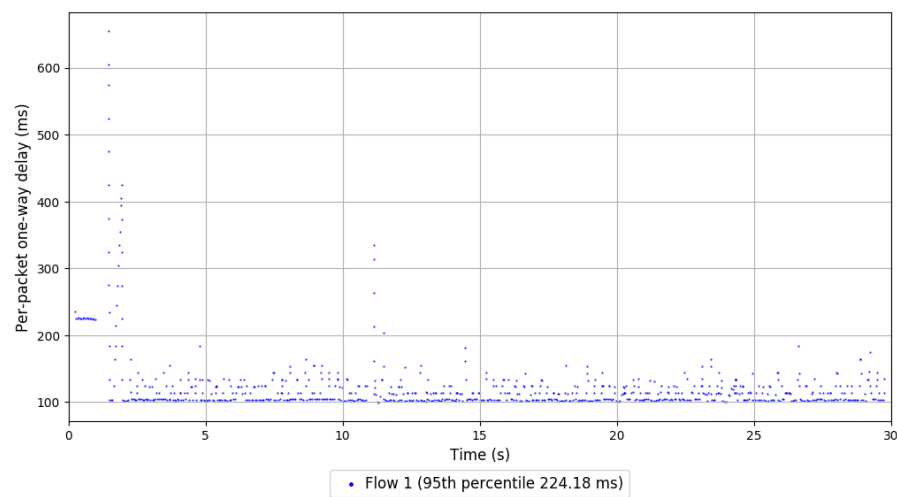
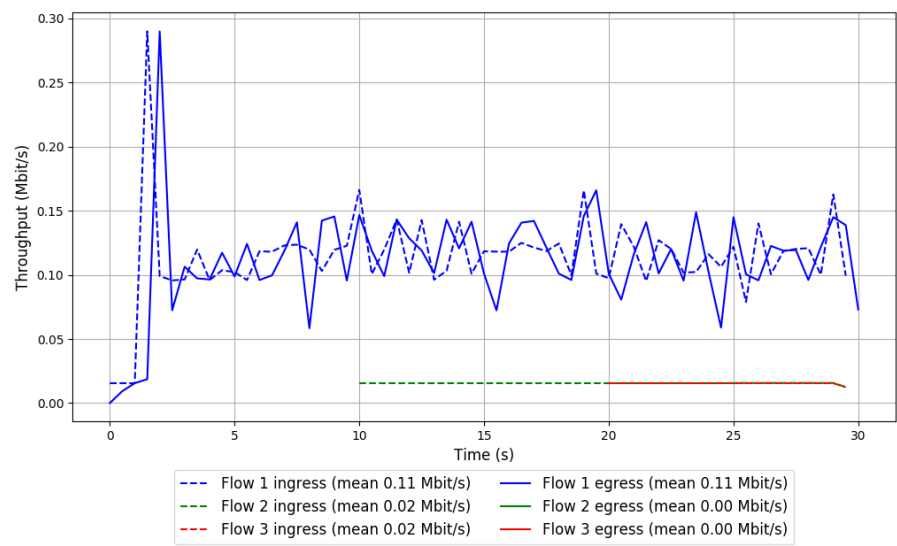
Start at: 2019-03-19 01:22:07

End at: 2019-03-19 01:22:37

Local clock offset: -6.041 ms

Remote clock offset: 8.846 ms

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

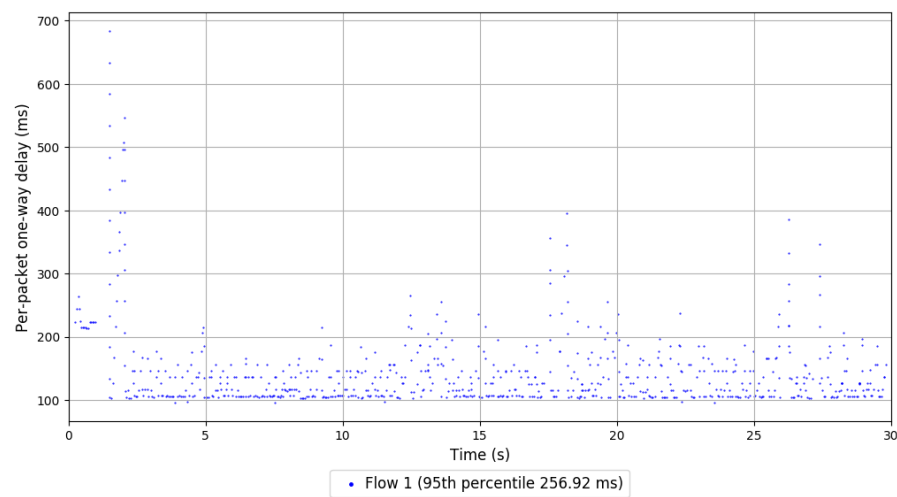
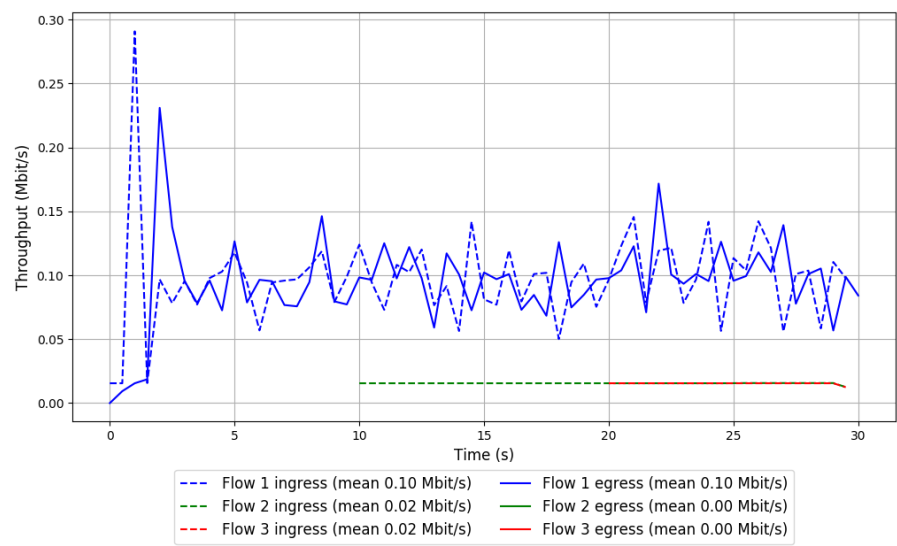
Start at: 2019-03-19 01:47:51

End at: 2019-03-19 01:48:21

Local clock offset: -5.433 ms

Remote clock offset: 6.622 ms

Run 3: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

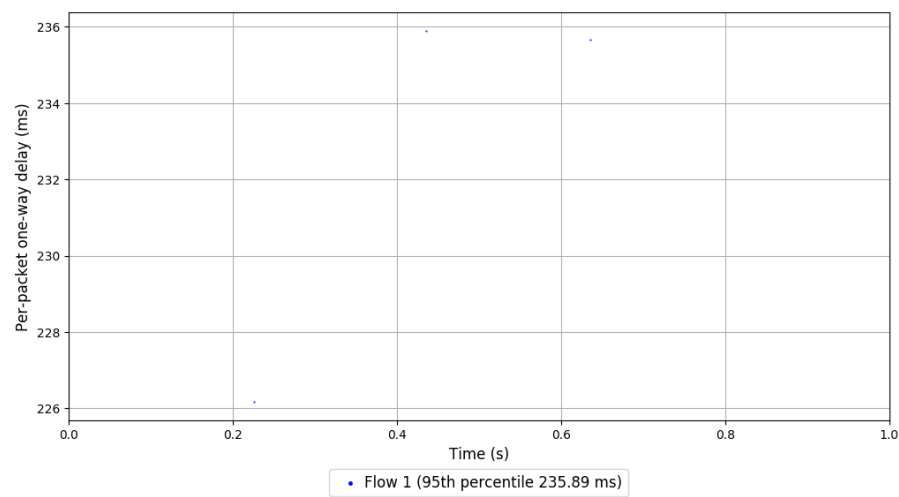
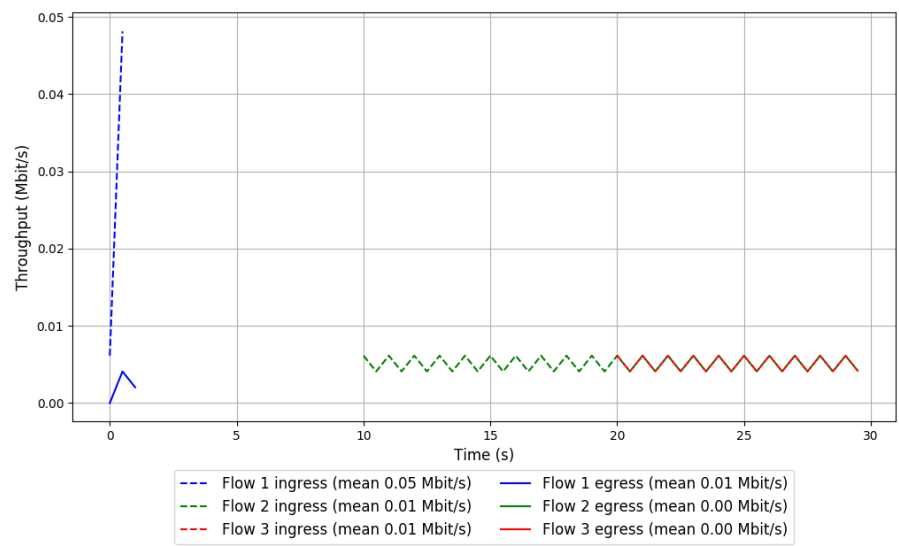
Start at: 2019-03-19 00:46:36

End at: 2019-03-19 00:47:06

Local clock offset: -4.381 ms

Remote clock offset: -5.713 ms

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



Run 2: Statistics of TaoVA-100x

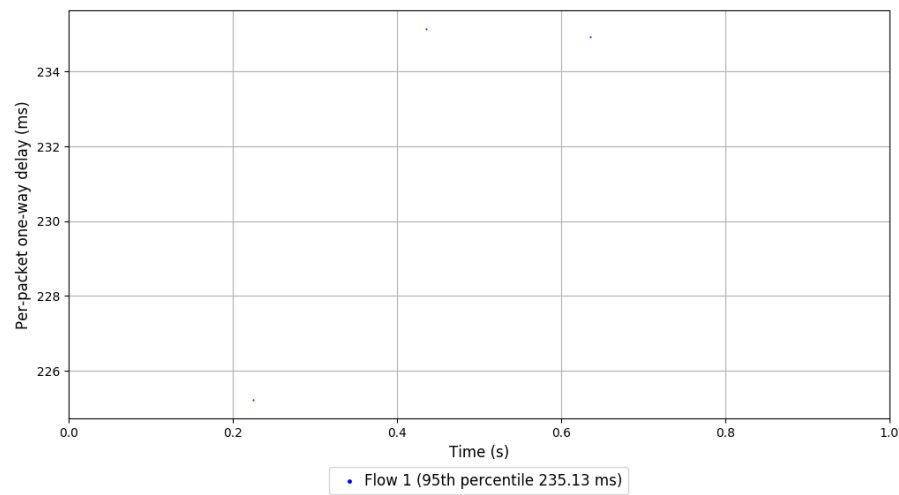
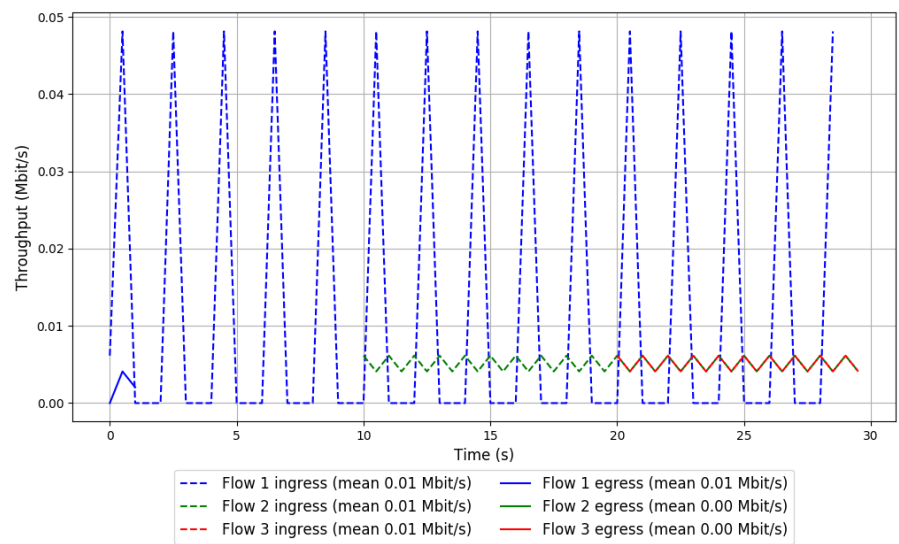
Start at: 2019-03-19 01:12:20

End at: 2019-03-19 01:12:50

Local clock offset: -6.85 ms

Remote clock offset: 4.905 ms

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



Run 3: Statistics of TaoVA-100x

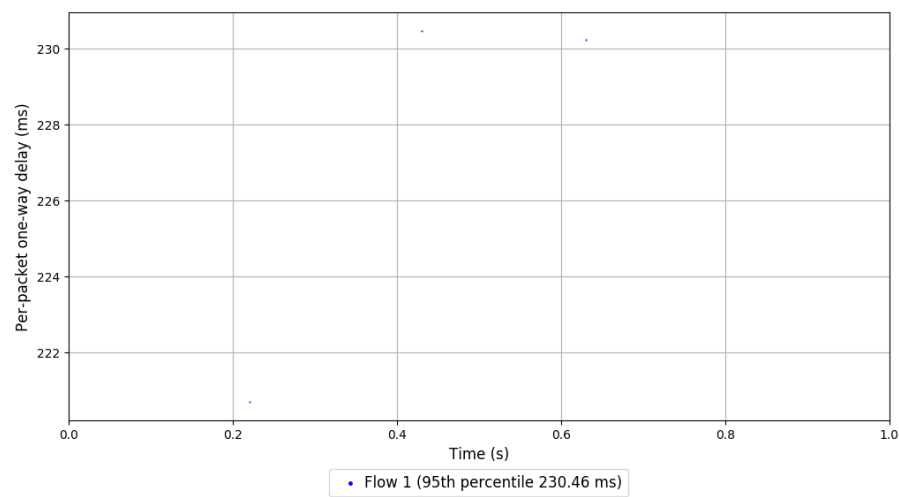
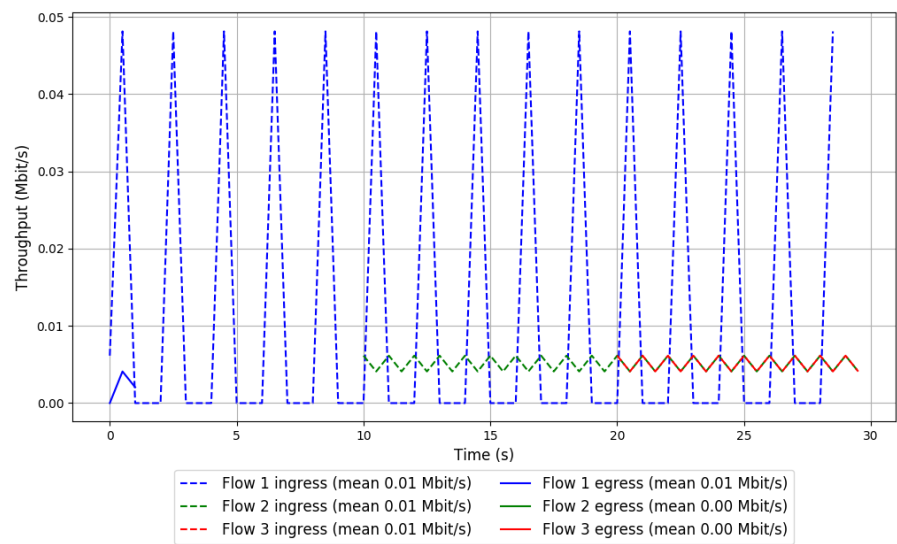
Start at: 2019-03-19 01:38:04

End at: 2019-03-19 01:38:34

Local clock offset: -6.156 ms

Remote clock offset: 1.657 ms

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



Run 1: Statistics of TCP Vegas

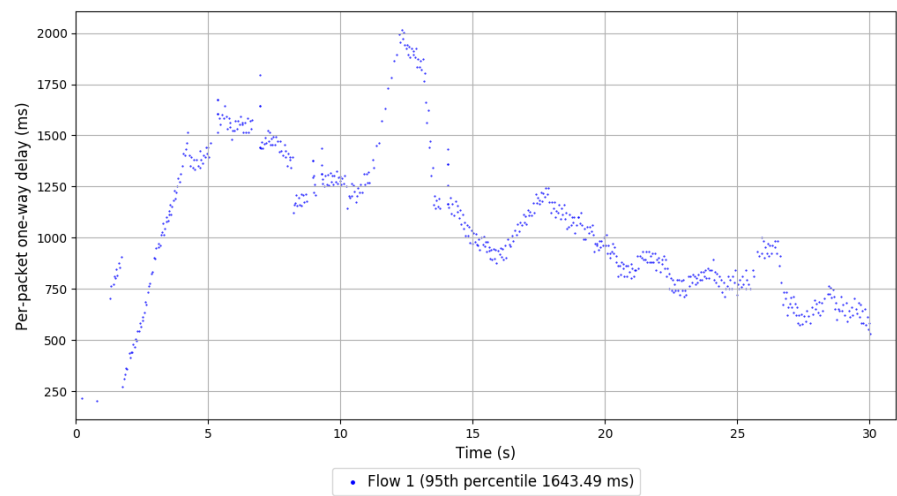
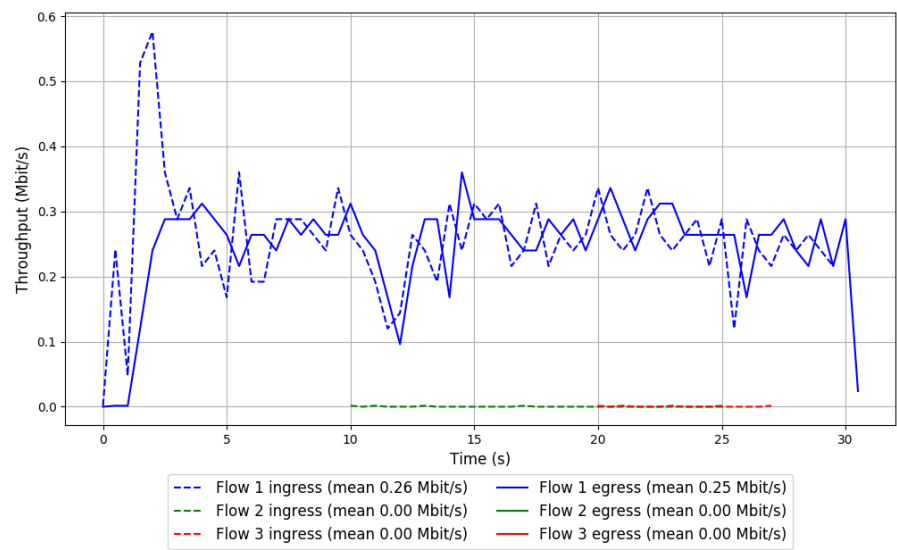
Start at: 2019-03-19 00:53:58

End at: 2019-03-19 00:54:28

Local clock offset: -6.252 ms

Remote clock offset: -8.72 ms

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

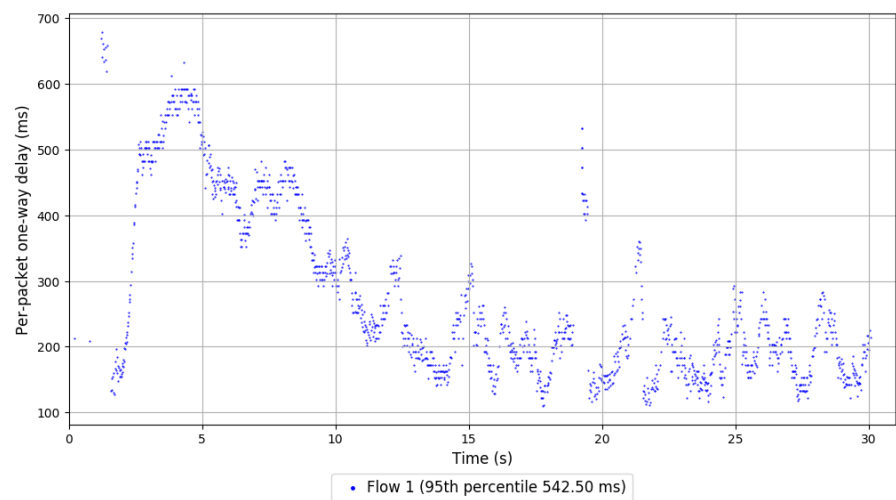
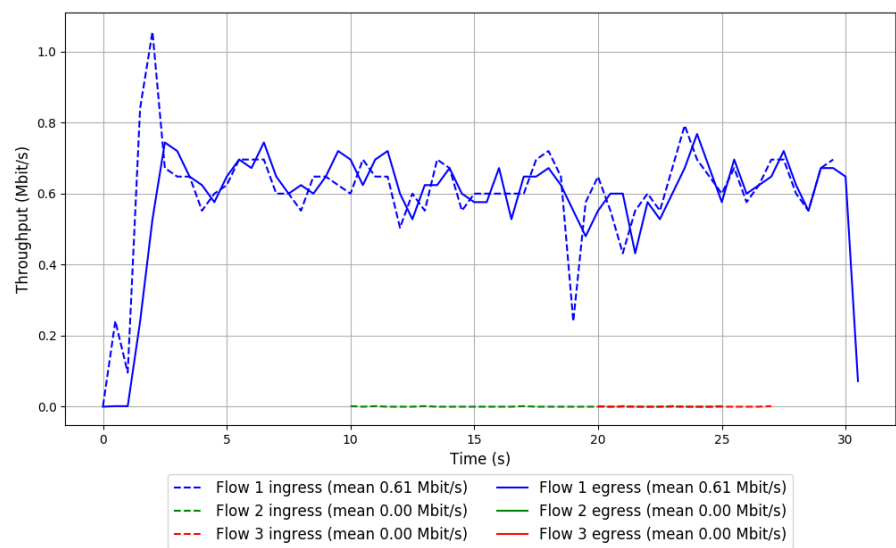
Start at: 2019-03-19 01:19:41

End at: 2019-03-19 01:20:11

Local clock offset: -6.347 ms

Remote clock offset: 3.288 ms

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

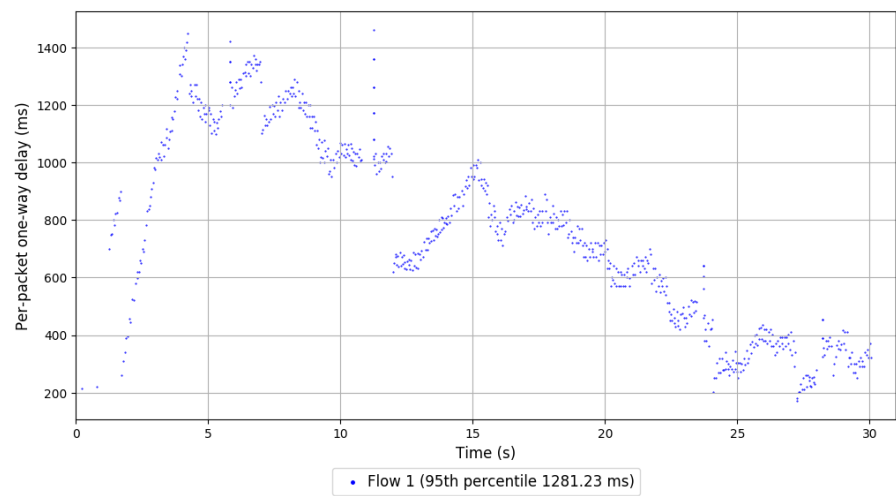
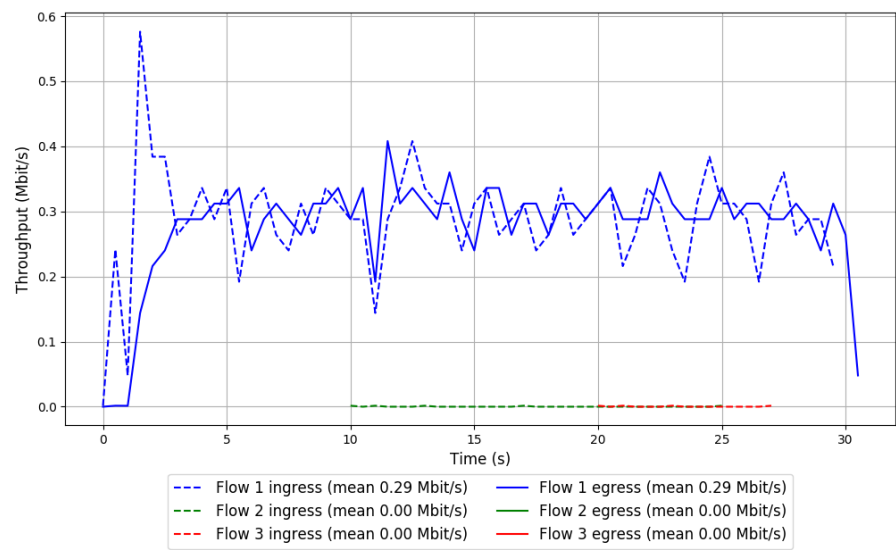
Start at: 2019-03-19 01:45:25

End at: 2019-03-19 01:45:55

Local clock offset: -5.316 ms

Remote clock offset: 2.498 ms

Run 3: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-03-19 00:58:52

End at: 2019-03-19 00:59:22

Local clock offset: -5.934 ms

Remote clock offset: 0.1 ms

Run 1: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Verus

Start at: 2019-03-19 01:24:35

End at: 2019-03-19 01:25:05

Local clock offset: -6.534 ms

Remote clock offset: 7.896 ms

Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Verus

Start at: 2019-03-19 01:50:18

End at: 2019-03-19 01:50:48

Local clock offset: -5.529 ms

Remote clock offset: 2.038 ms

Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of PCC-Vivace

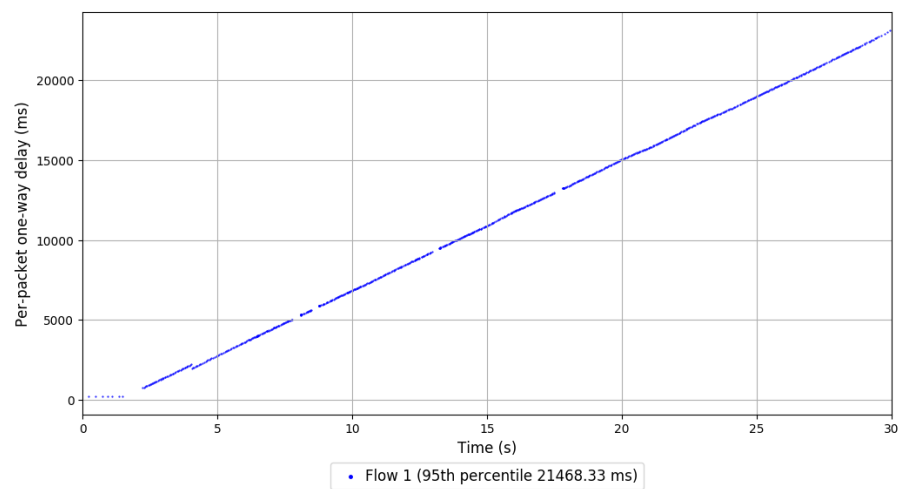
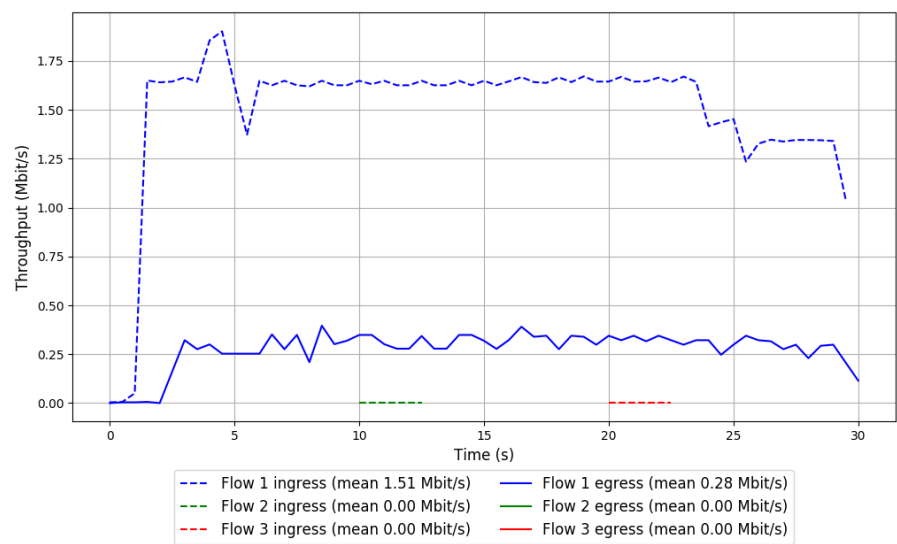
Start at: 2019-03-19 00:49:02

End at: 2019-03-19 00:49:32

Local clock offset: -4.833 ms

Remote clock offset: -10.657 ms

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

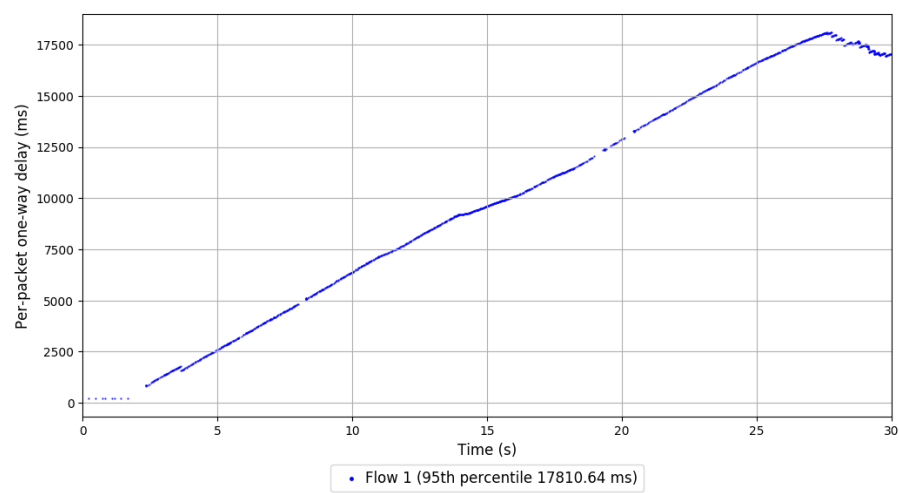
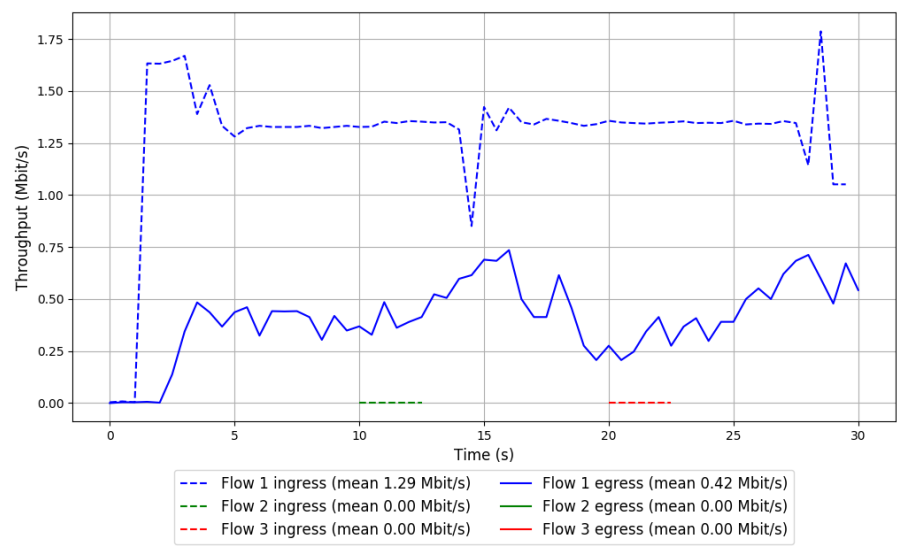
Start at: 2019-03-19 01:14:46

End at: 2019-03-19 01:15:16

Local clock offset: -7.732 ms

Remote clock offset: 1.239 ms

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

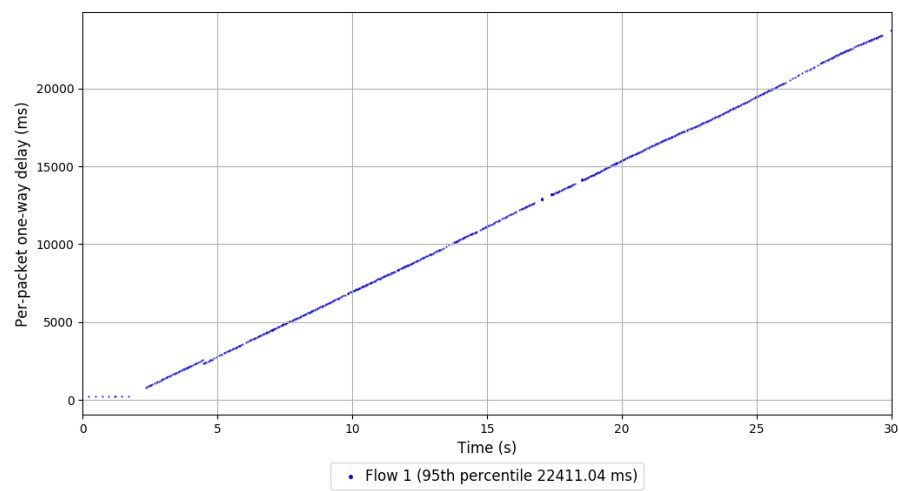
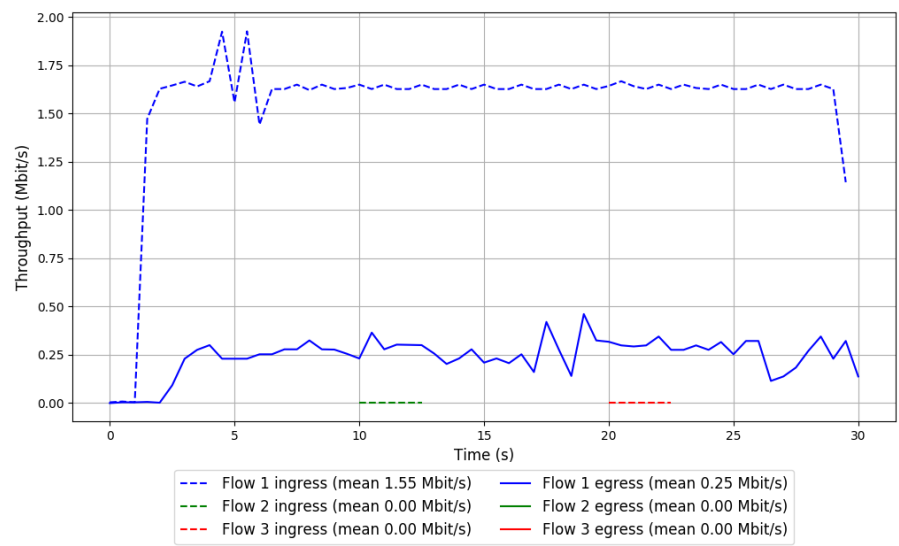
Start at: 2019-03-19 01:40:31

End at: 2019-03-19 01:41:01

Local clock offset: -6.078 ms

Remote clock offset: 5.475 ms

Run 3: Report of PCC-Vivace — Data Link

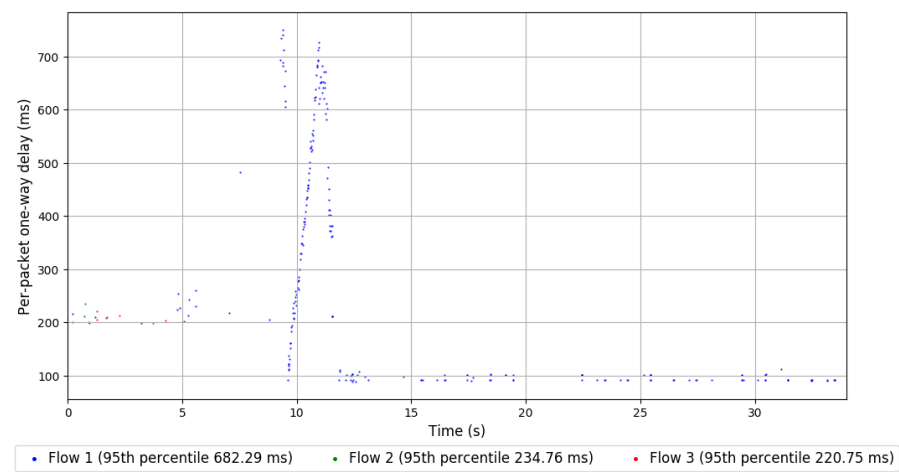
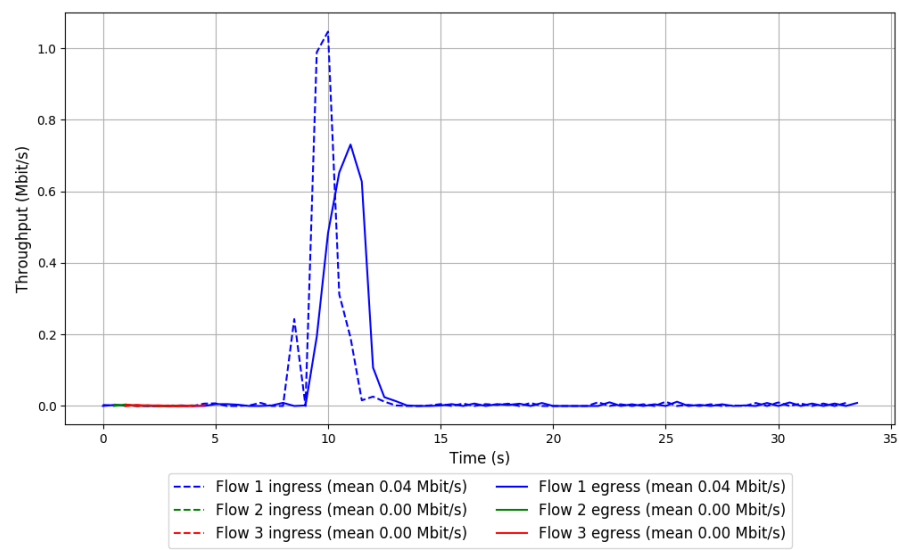


Run 1: Statistics of WebRTC media

Start at: 2019-03-19 01:06:12
End at: 2019-03-19 01:06:42
Local clock offset: -6.525 ms
Remote clock offset: -1.005 ms

Below is generated by plot.py at 2019-03-19 02:03:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 682.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 682.291 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 234.759 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 220.754 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-03-19 01:31:58

End at: 2019-03-19 01:32:28

Local clock offset: -5.416 ms

Remote clock offset: 2.17 ms

Below is generated by plot.py at 2019-03-19 02:03:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 1815.510 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 1758.819 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 1923.750 ms

Loss rate: 0.00%

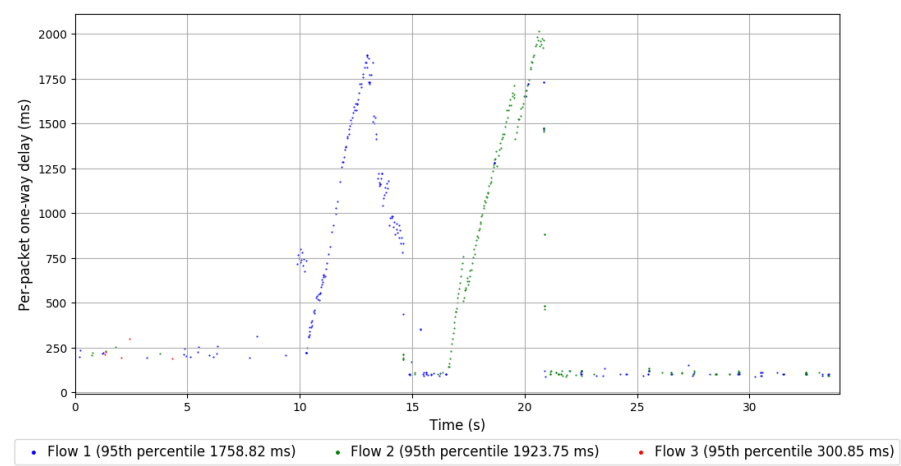
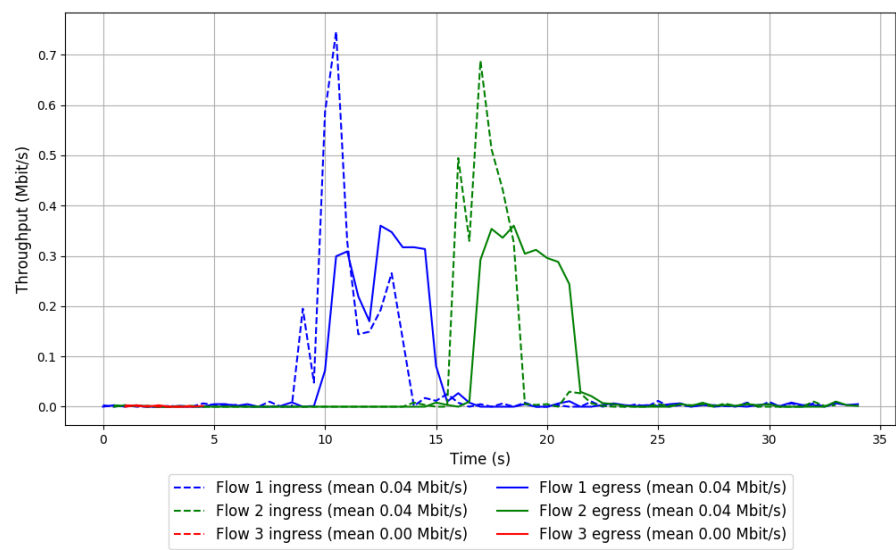
-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 300.847 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-03-19 01:57:39

End at: 2019-03-19 01:58:09

Local clock offset: -5.861 ms

Remote clock offset: 2.815 ms

Below is generated by plot.py at 2019-03-19 02:03:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1670.478 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 0.04 Mbit/s

95th percentile per-packet one-way delay: 1670.478 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 237.313 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 221.259 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

