

Pantheon Report

Generated at 2019-01-03 12:58:11 (UTC).

Data path: Stanford on `eno1` (*remote*) → AWS California 1 on `ens5` (*local*).

Repeated the test of 19 congestion control schemes 5 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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

System info:

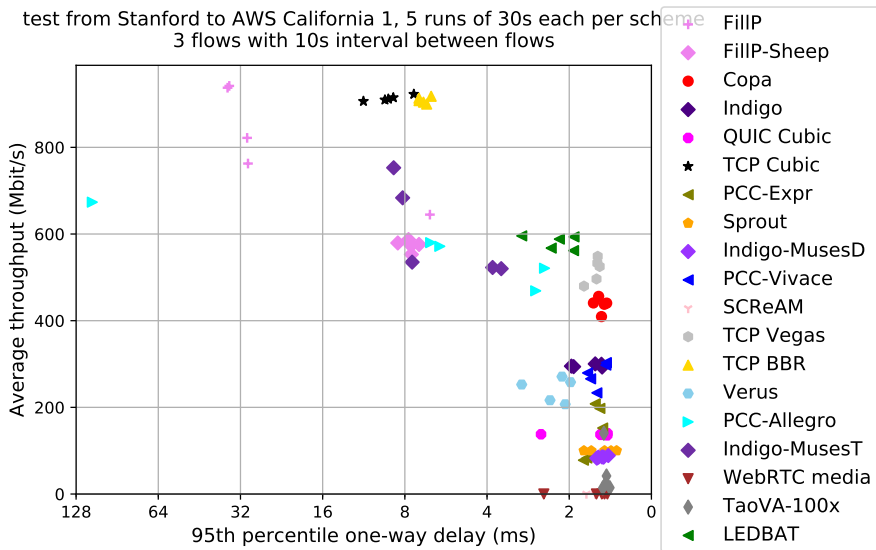
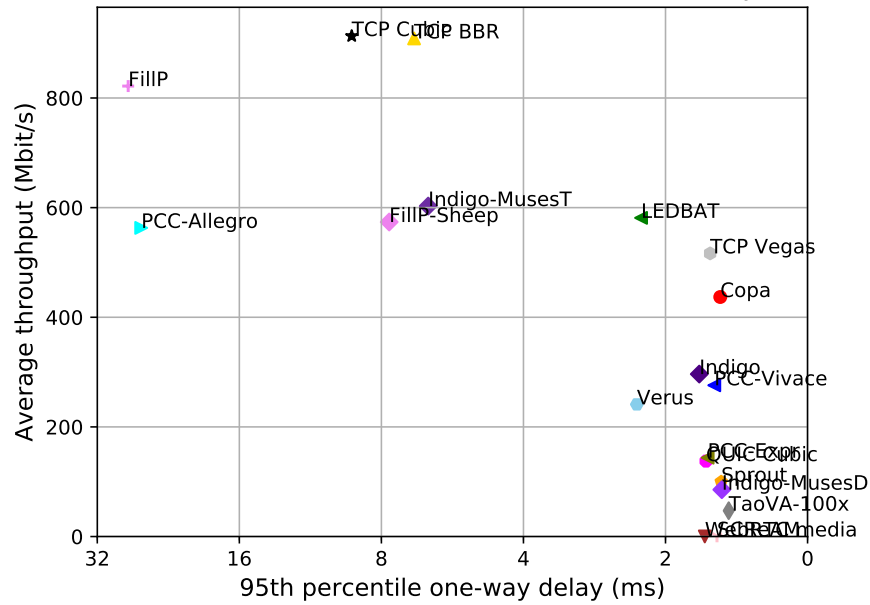
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
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 Stanford to AWS California 1, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



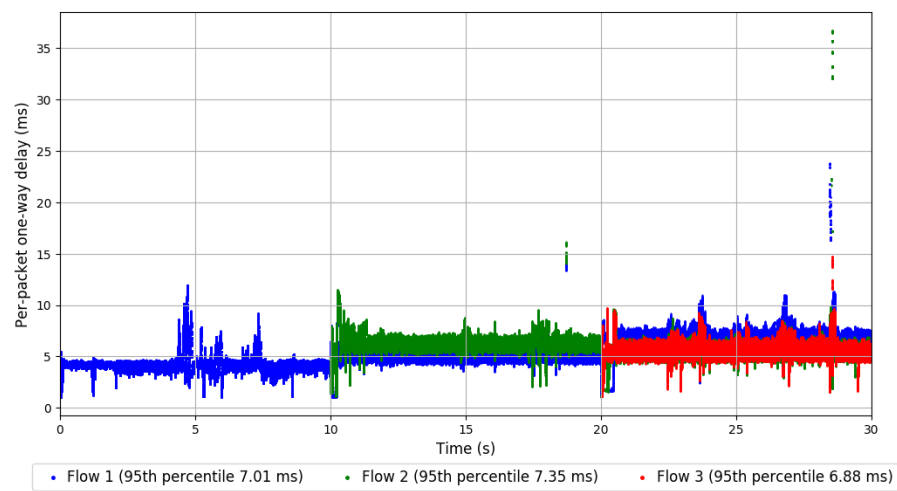
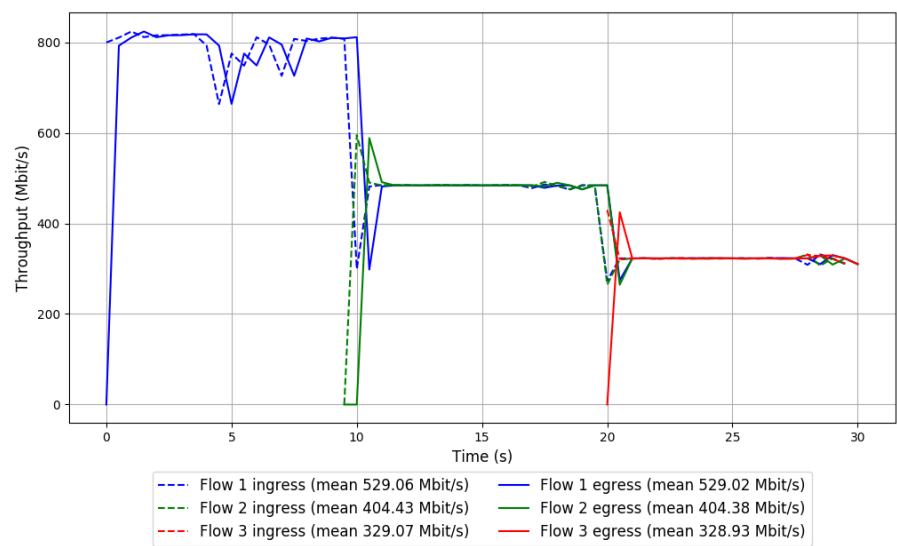
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	530.12	404.63	328.11	6.83	6.71	6.97	0.01	0.02	0.06
Copa	5	263.44	204.54	112.37	1.24	1.21	1.21	0.00	0.01	0.01
TCP Cubic	5	538.32	402.29	321.02	9.51	7.80	8.01	0.02	0.03	0.07
FillP	5	507.86	360.12	224.52	23.80	28.53	25.06	0.07	0.09	0.16
FillP-Sheep	5	428.71	194.21	48.66	8.08	5.04	5.17	0.00	0.00	0.00
Indigo	5	159.47	146.47	120.08	1.44	1.58	1.66	0.01	0.00	0.02
Indigo-MusesD	5	41.76	42.41	46.79	1.20	1.21	1.23	0.01	0.01	0.02
Indigo-MusesT	5	273.10	389.96	271.56	5.10	6.58	8.70	0.01	0.03	0.08
LEDBAT	5	355.68	249.27	179.50	2.25	2.33	1.88	0.00	0.01	0.02
PCC-Allegro	5	466.12	102.68	87.25	26.58	2.04	2.38	0.04	0.01	0.03
PCC-Expr	5	109.25	30.14	44.03	1.42	1.35	1.29	0.01	0.01	0.02
QUIC Cubic	5	73.36	68.01	57.23	1.34	1.47	1.80	0.00	0.01	0.02
SCReAM	5	0.22	0.22	0.22	1.23	1.29	1.55	0.00	0.00	0.07
Sprout	5	50.23	50.16	49.99	1.22	1.22	1.21	0.00	0.01	0.02
TaoVA-100x	5	23.61	23.46	23.87	1.11	1.13	1.12	0.01	0.01	0.01
TCP Vegas	5	253.66	258.18	273.47	1.36	1.34	2.22	0.01	0.01	0.02
Verus	5	145.08	106.81	75.79	2.40	1.91	1.67	0.00	0.02	0.04
PCC-Vivace	5	189.23	94.69	71.89	1.29	1.34	1.42	0.00	0.01	0.01
WebRTC media	5	0.05	0.09	0.05	1.58	1.23	1.32	0.00	0.01	0.02

Run 1: Statistics of TCP BBR

Start at: 2019-01-03 09:50:03
End at: 2019-01-03 09:50:33
Local clock offset: 0.199 ms
Remote clock offset: -1.513 ms

Below is generated by plot.py at 2019-01-03 12:13:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 907.85 Mbit/s
95th percentile per-packet one-way delay: 7.099 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 529.02 Mbit/s
95th percentile per-packet one-way delay: 7.015 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 404.38 Mbit/s
95th percentile per-packet one-way delay: 7.347 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 328.93 Mbit/s
95th percentile per-packet one-way delay: 6.883 ms
Loss rate: 0.06%

Run 1: Report of TCP BBR — Data Link

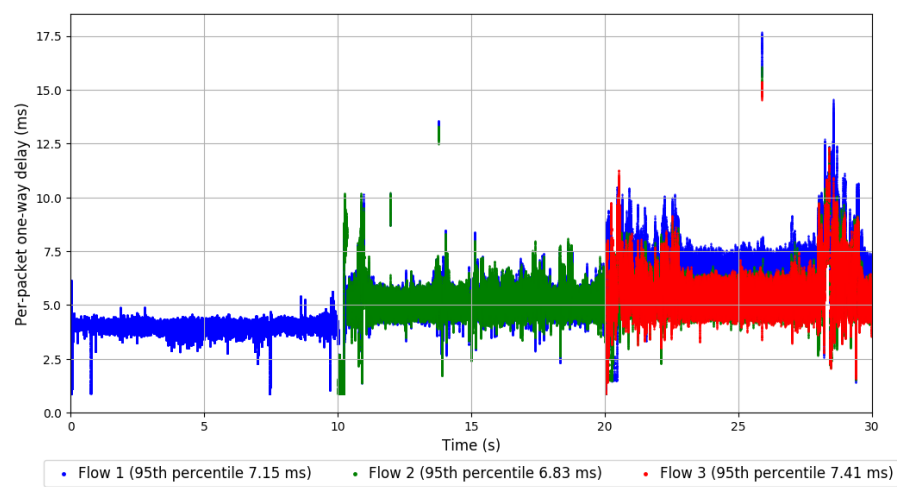
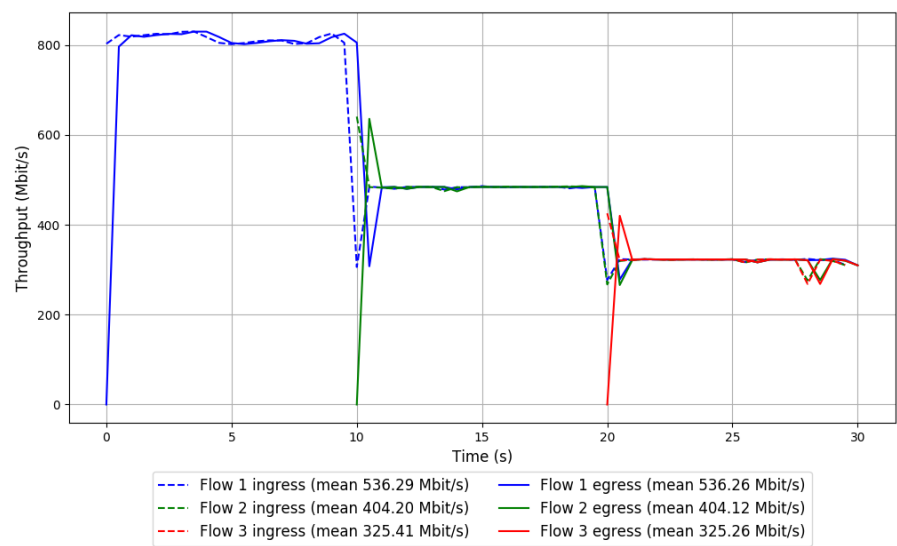


Run 2: Statistics of TCP BBR

Start at: 2019-01-03 10:17:48
End at: 2019-01-03 10:18:18
Local clock offset: 0.062 ms
Remote clock offset: -0.577 ms

Below is generated by plot.py at 2019-01-03 12:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 913.46 Mbit/s
95th percentile per-packet one-way delay: 7.104 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 536.26 Mbit/s
95th percentile per-packet one-way delay: 7.146 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 404.12 Mbit/s
95th percentile per-packet one-way delay: 6.833 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 325.26 Mbit/s
95th percentile per-packet one-way delay: 7.406 ms
Loss rate: 0.06%

Run 2: Report of TCP BBR — Data Link

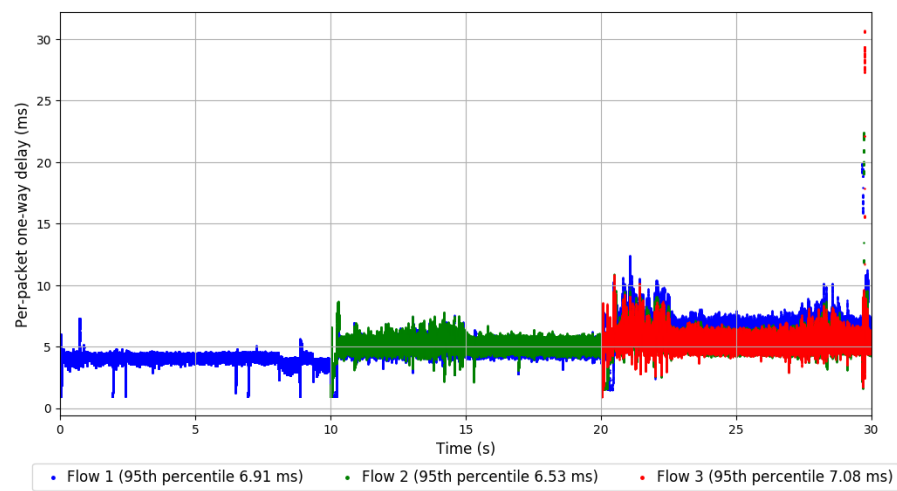
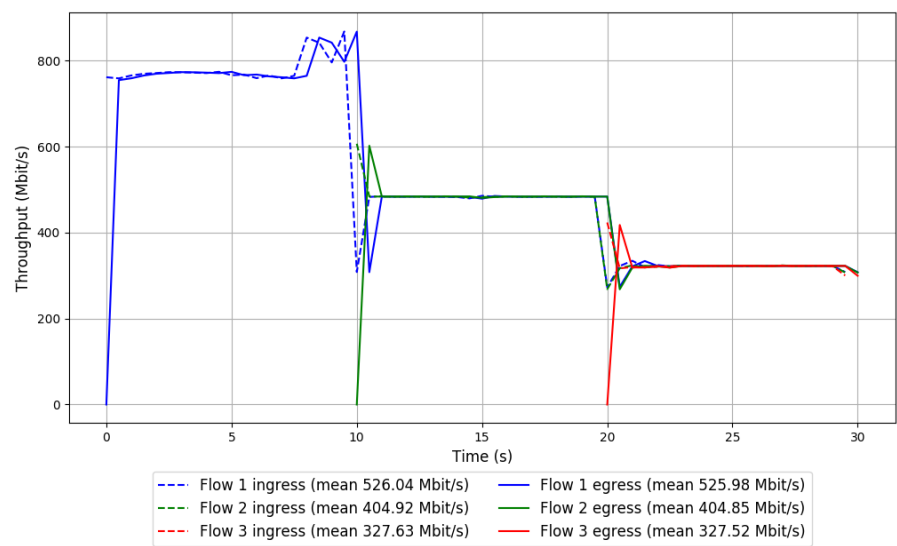


Run 3: Statistics of TCP BBR

Start at: 2019-01-03 10:45:31
End at: 2019-01-03 10:46:01
Local clock offset: 0.182 ms
Remote clock offset: -0.232 ms

Below is generated by plot.py at 2019-01-03 12:13:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 904.36 Mbit/s
95th percentile per-packet one-way delay: 6.839 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 525.98 Mbit/s
95th percentile per-packet one-way delay: 6.908 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 404.85 Mbit/s
95th percentile per-packet one-way delay: 6.531 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 327.52 Mbit/s
95th percentile per-packet one-way delay: 7.077 ms
Loss rate: 0.06%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2019-01-03 11:13:02

End at: 2019-01-03 11:13:32

Local clock offset: 0.161 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2019-01-03 12:13:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 899.88 Mbit/s

95th percentile per-packet one-way delay: 6.656 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 520.74 Mbit/s

95th percentile per-packet one-way delay: 6.664 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 405.10 Mbit/s

95th percentile per-packet one-way delay: 6.605 ms

Loss rate: 0.03%

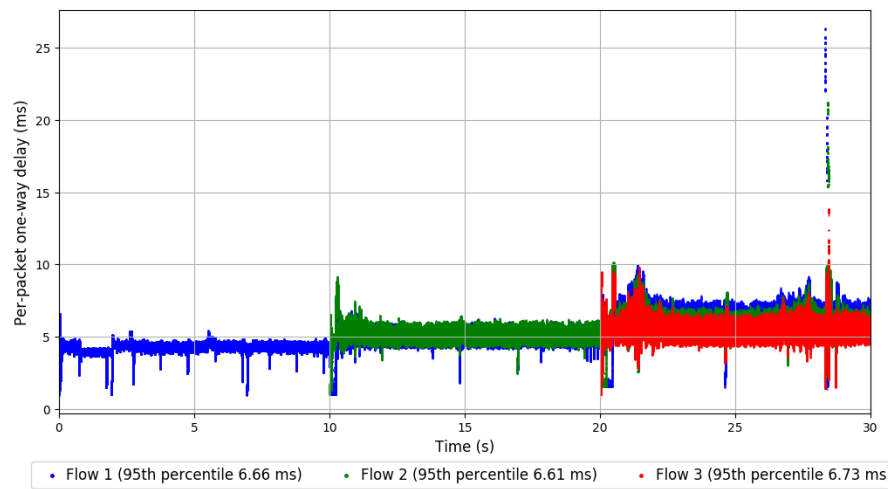
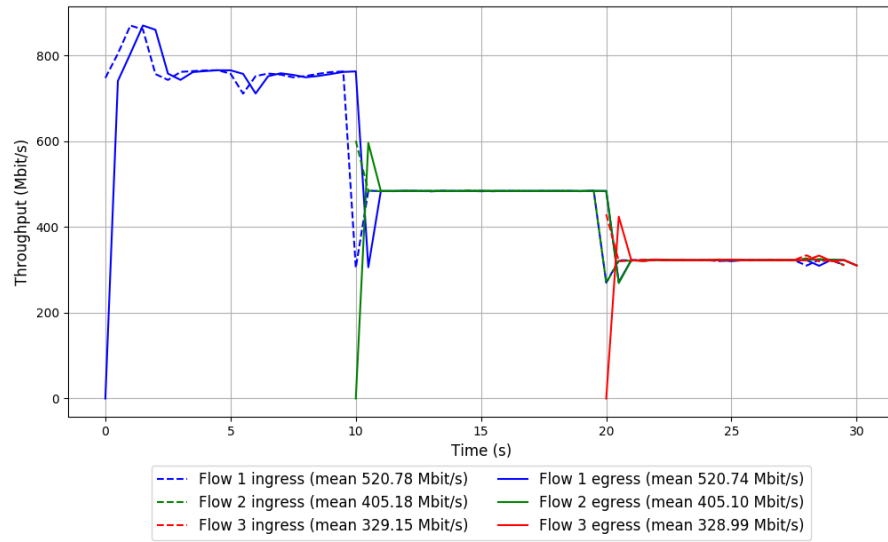
-- Flow 3:

Average throughput: 328.99 Mbit/s

95th percentile per-packet one-way delay: 6.730 ms

Loss rate: 0.07%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-01-03 11:40:30

End at: 2019-01-03 11:41:00

Local clock offset: 3.215 ms

Remote clock offset: 2.878 ms

Below is generated by plot.py at 2019-01-03 12:13:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 917.90 Mbit/s

95th percentile per-packet one-way delay: 6.407 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 538.60 Mbit/s

95th percentile per-packet one-way delay: 6.423 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 404.70 Mbit/s

95th percentile per-packet one-way delay: 6.215 ms

Loss rate: 0.03%

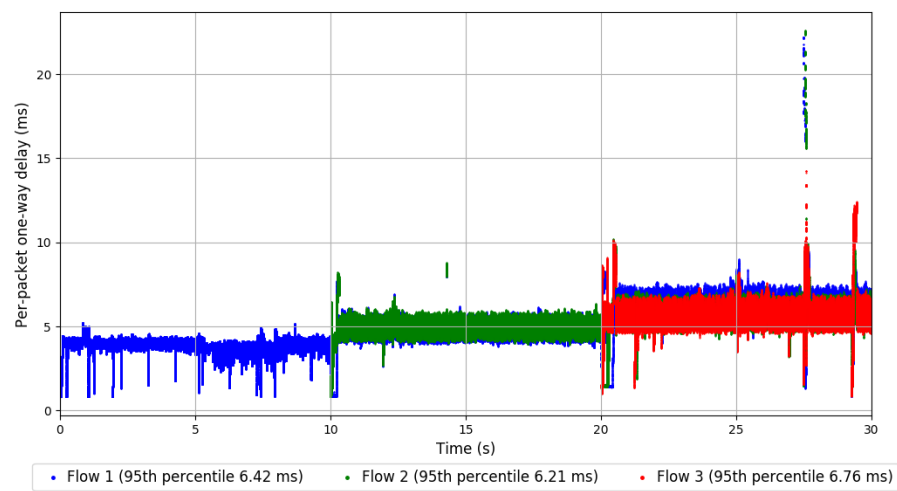
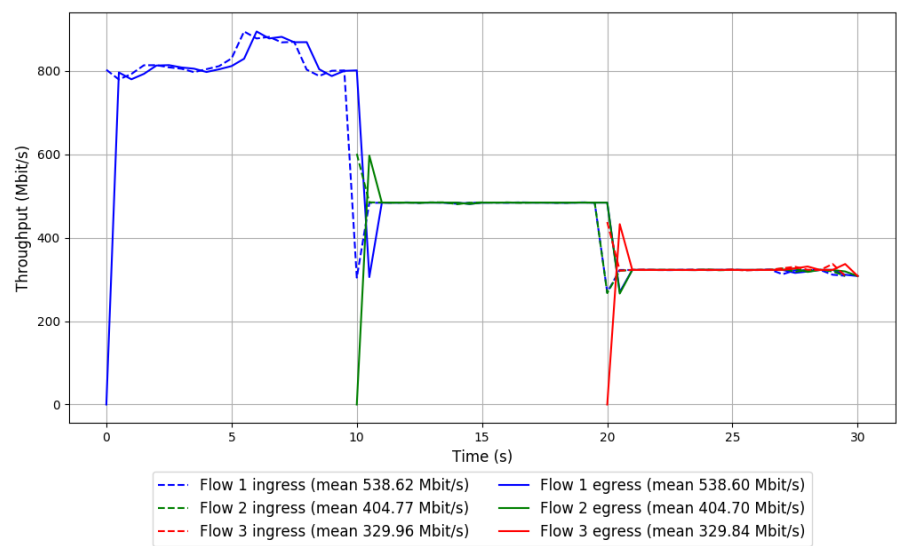
-- Flow 3:

Average throughput: 329.84 Mbit/s

95th percentile per-packet one-way delay: 6.762 ms

Loss rate: 0.06%

Run 5: Report of TCP BBR — Data Link

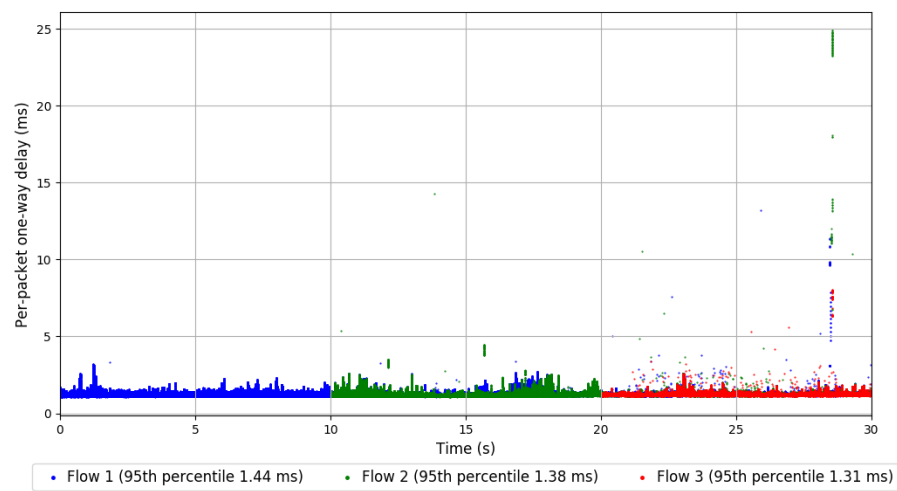
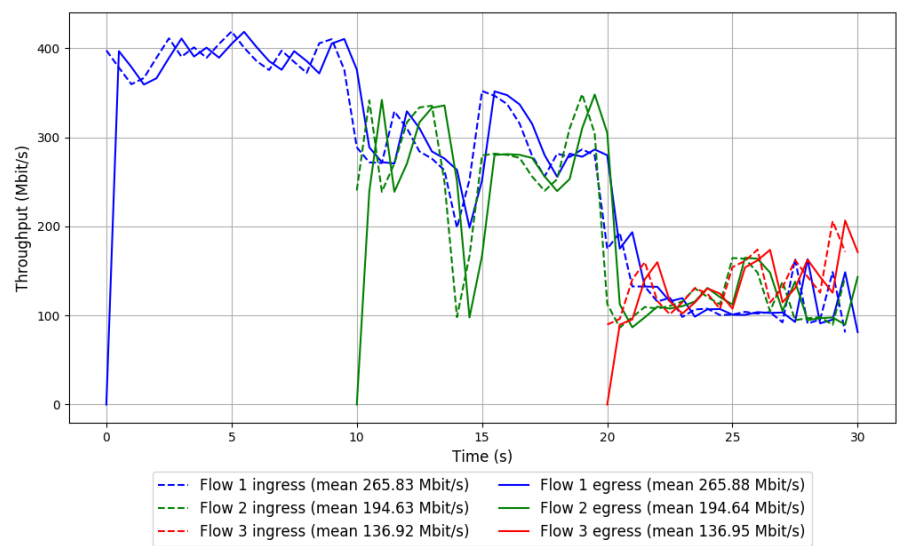


Run 1: Statistics of Copa

Start at: 2019-01-03 09:47:08
End at: 2019-01-03 09:47:38
Local clock offset: 0.328 ms
Remote clock offset: -2.027 ms

Below is generated by plot.py at 2019-01-03 12:13:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 440.94 Mbit/s
95th percentile per-packet one-way delay: 1.411 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 265.88 Mbit/s
95th percentile per-packet one-way delay: 1.436 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.64 Mbit/s
95th percentile per-packet one-way delay: 1.379 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 136.95 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.01%

Run 1: Report of Copa — Data Link

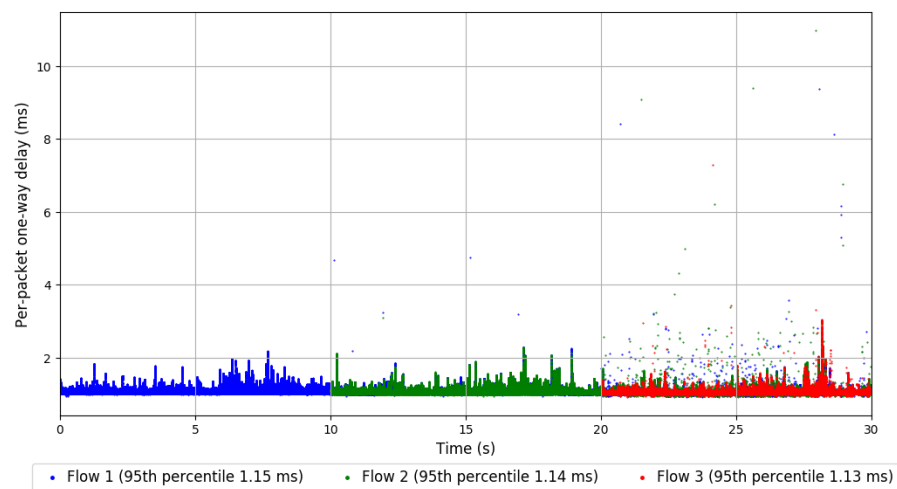
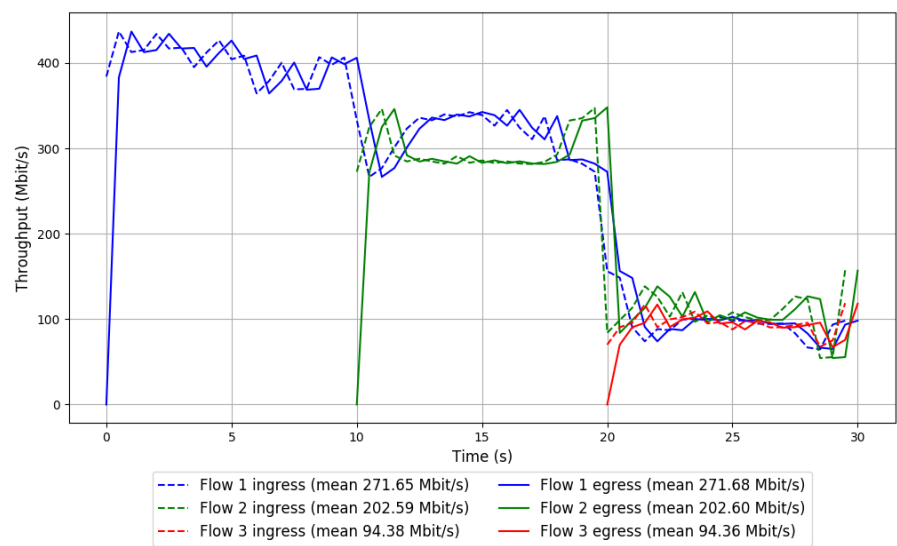


Run 2: Statistics of Copa

Start at: 2019-01-03 10:14:53
End at: 2019-01-03 10:15:23
Local clock offset: 0.056 ms
Remote clock offset: -0.695 ms

Below is generated by plot.py at 2019-01-03 12:13:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 437.90 Mbit/s
95th percentile per-packet one-way delay: 1.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 271.68 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.60 Mbit/s
95th percentile per-packet one-way delay: 1.136 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.04%

Run 2: Report of Copa — Data Link

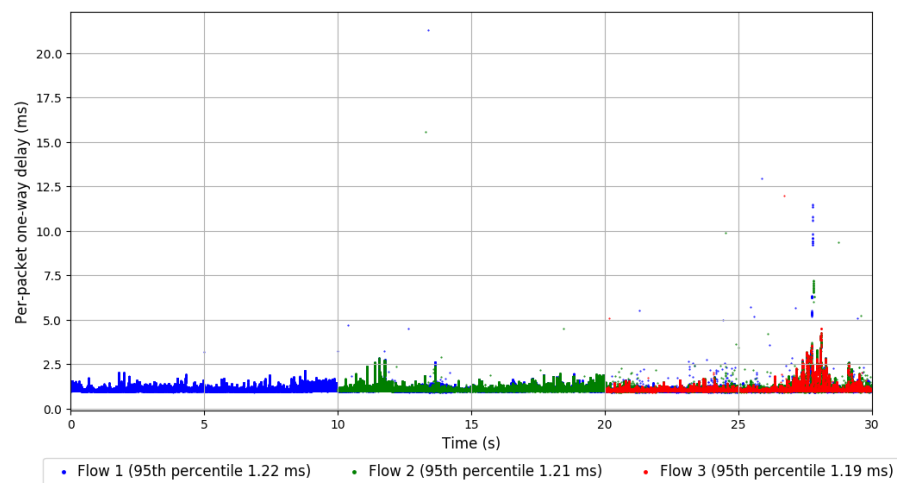
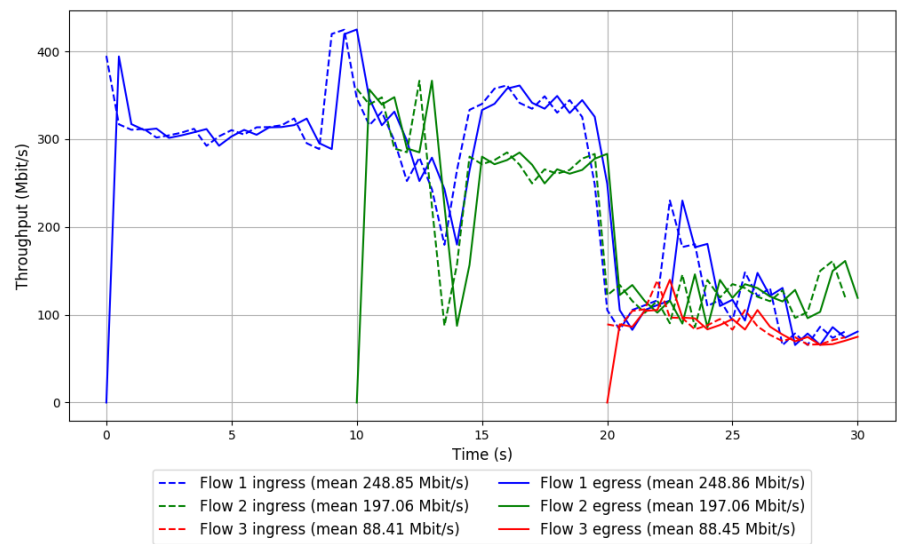


Run 3: Statistics of Copa

Start at: 2019-01-03 10:42:38
End at: 2019-01-03 10:43:08
Local clock offset: 0.174 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2019-01-03 12:13:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 409.43 Mbit/s
95th percentile per-packet one-way delay: 1.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 248.86 Mbit/s
95th percentile per-packet one-way delay: 1.219 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 197.06 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 88.45 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

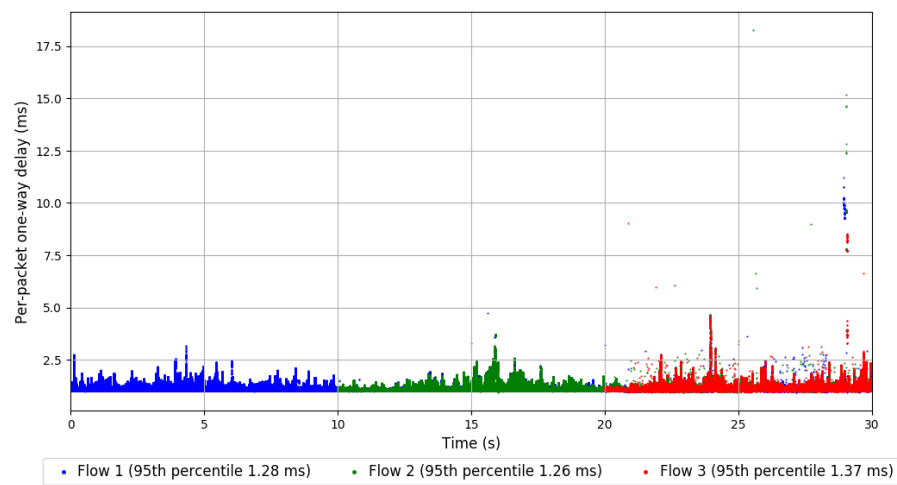
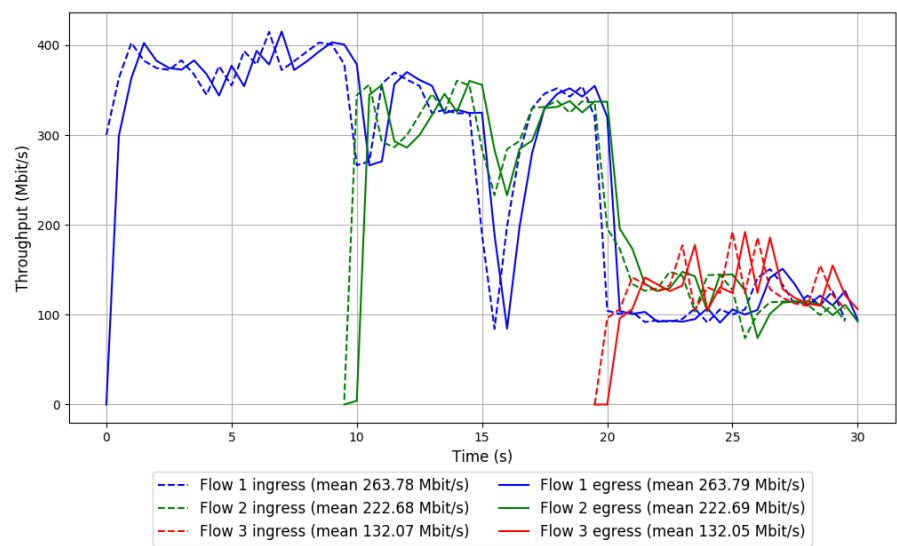


Run 4: Statistics of Copa

Start at: 2019-01-03 11:10:06
End at: 2019-01-03 11:10:36
Local clock offset: 0.158 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2019-01-03 12:20:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 456.09 Mbit/s
95th percentile per-packet one-way delay: 1.284 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 263.79 Mbit/s
95th percentile per-packet one-way delay: 1.283 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.69 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 132.05 Mbit/s
95th percentile per-packet one-way delay: 1.370 ms
Loss rate: 0.02%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-03 11:37:35

End at: 2019-01-03 11:38:05

Local clock offset: 2.906 ms

Remote clock offset: 2.53 ms

Below is generated by plot.py at 2019-01-03 12:21:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 440.53 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 267.01 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 205.69 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.01%

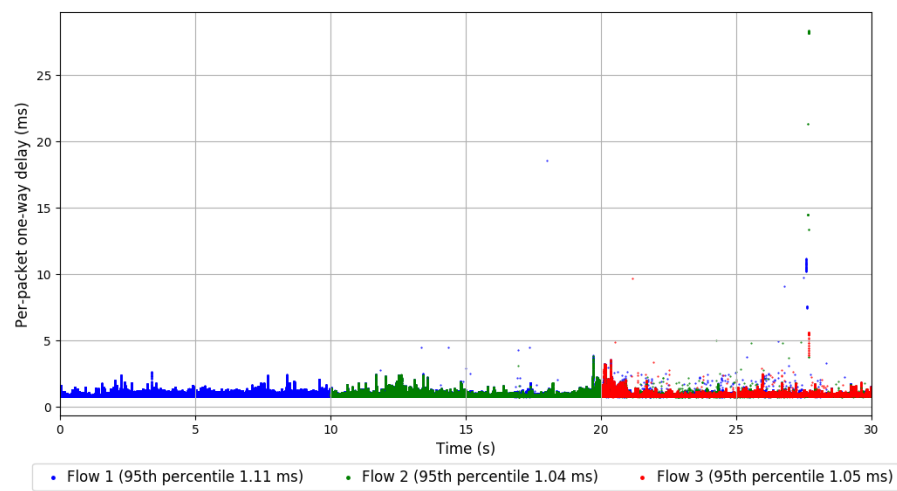
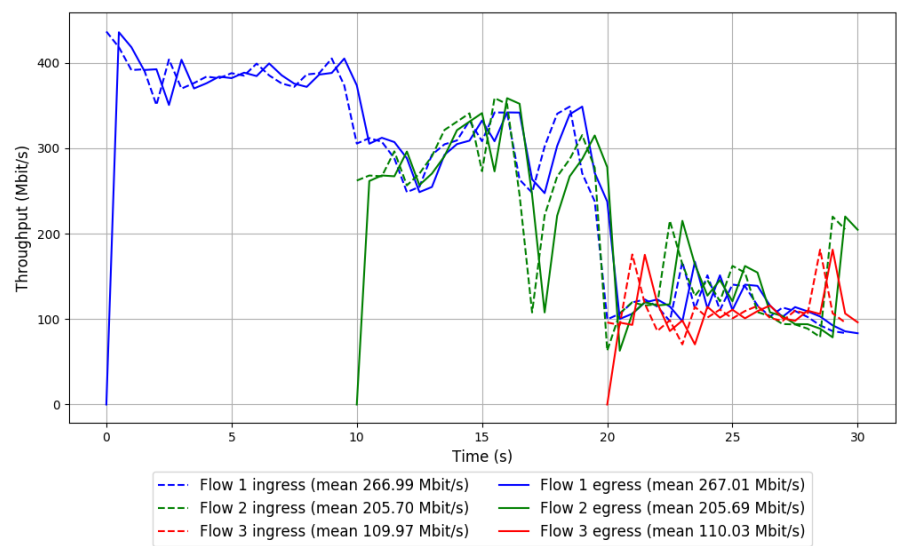
-- Flow 3:

Average throughput: 110.03 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

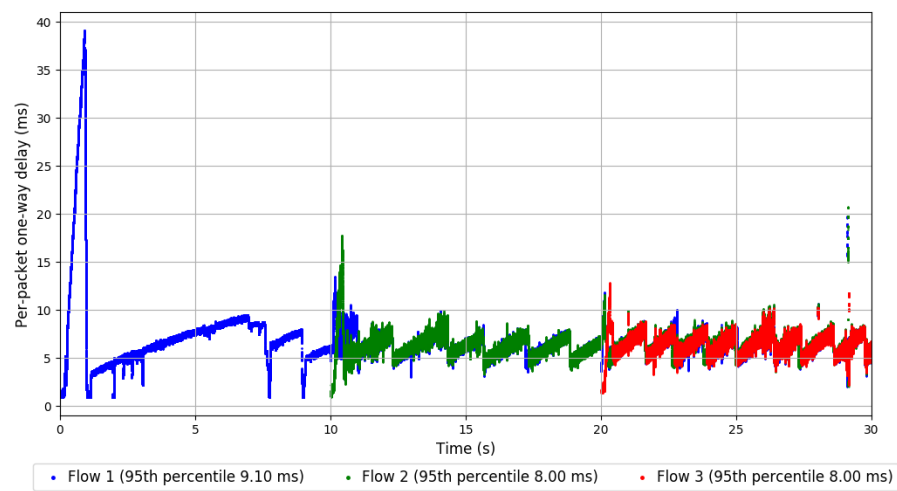
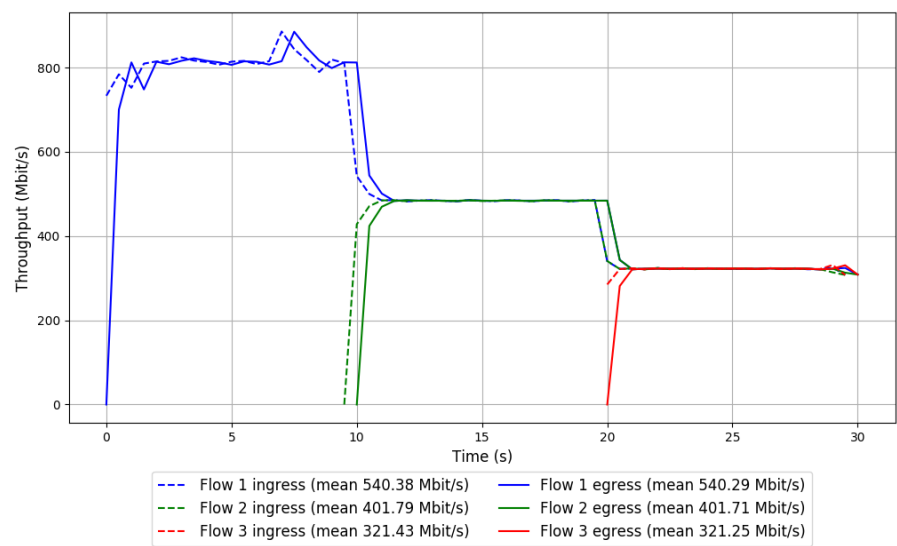


Run 1: Statistics of TCP Cubic

Start at: 2019-01-03 10:03:09
End at: 2019-01-03 10:03:39
Local clock offset: 0.049 ms
Remote clock offset: -0.657 ms

Below is generated by plot.py at 2019-01-03 12:21:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 914.76 Mbit/s
95th percentile per-packet one-way delay: 8.818 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 540.29 Mbit/s
95th percentile per-packet one-way delay: 9.096 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 401.71 Mbit/s
95th percentile per-packet one-way delay: 7.997 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 321.25 Mbit/s
95th percentile per-packet one-way delay: 8.001 ms
Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link

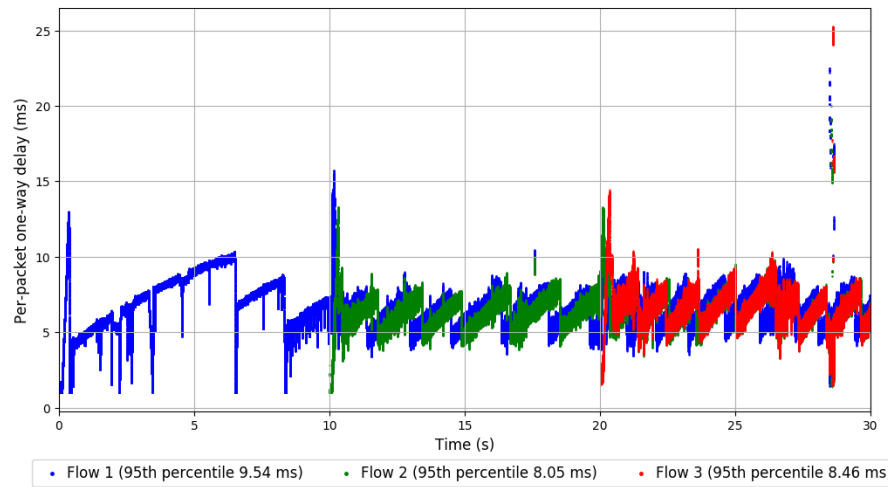
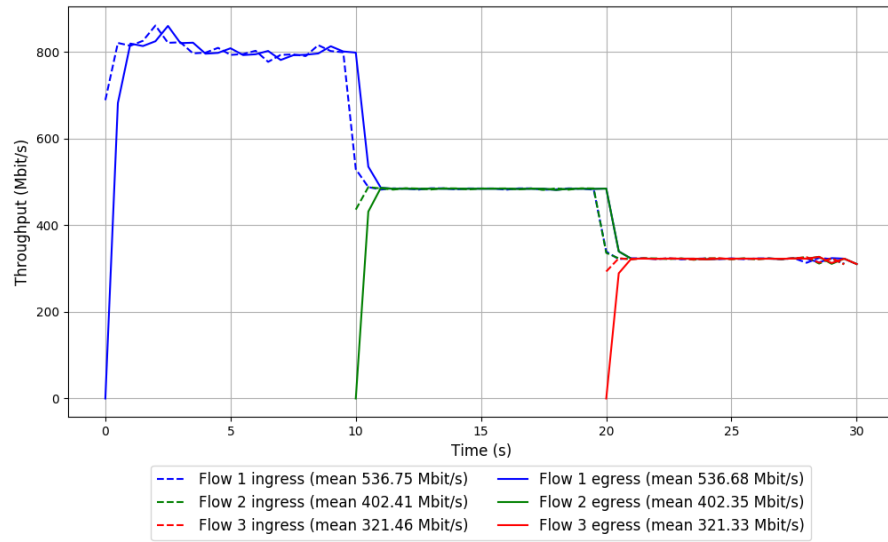


Run 2: Statistics of TCP Cubic

Start at: 2019-01-03 10:30:45
End at: 2019-01-03 10:31:15
Local clock offset: 0.12 ms
Remote clock offset: -0.393 ms

Below is generated by plot.py at 2019-01-03 12:22:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 911.48 Mbit/s
95th percentile per-packet one-way delay: 9.194 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 536.68 Mbit/s
95th percentile per-packet one-way delay: 9.538 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 402.35 Mbit/s
95th percentile per-packet one-way delay: 8.050 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 321.33 Mbit/s
95th percentile per-packet one-way delay: 8.455 ms
Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link

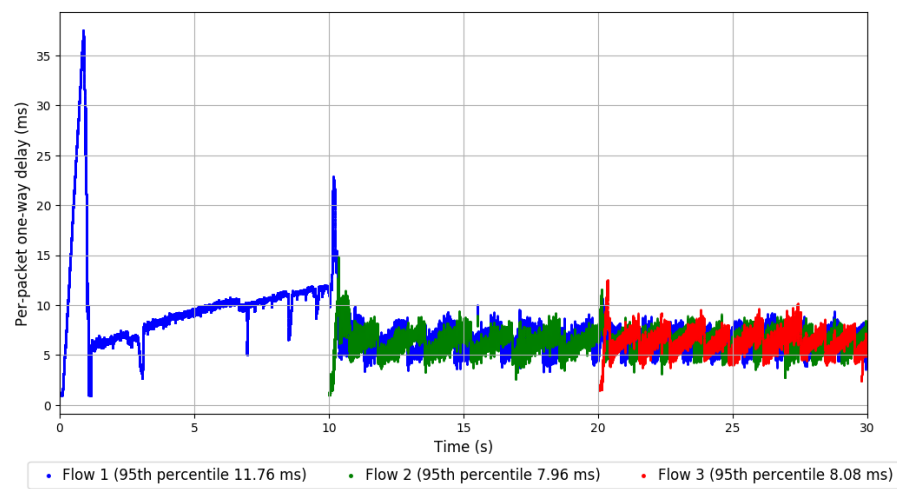
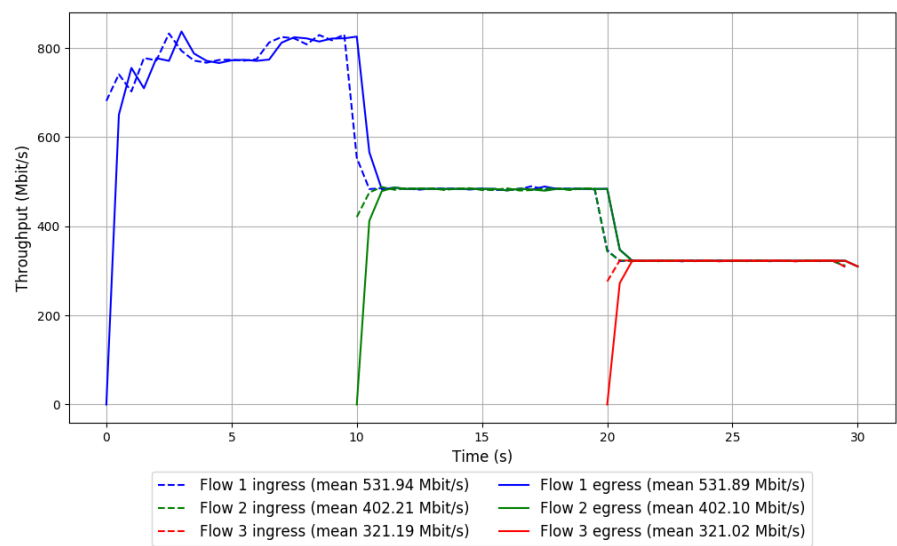


Run 3: Statistics of TCP Cubic

Start at: 2019-01-03 10:58:20
End at: 2019-01-03 10:58:50
Local clock offset: 0.157 ms
Remote clock offset: -0.177 ms

Below is generated by plot.py at 2019-01-03 12:22:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 906.38 Mbit/s
95th percentile per-packet one-way delay: 11.344 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 531.89 Mbit/s
95th percentile per-packet one-way delay: 11.763 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 402.10 Mbit/s
95th percentile per-packet one-way delay: 7.965 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 321.02 Mbit/s
95th percentile per-packet one-way delay: 8.082 ms
Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-01-03 11:25:45

End at: 2019-01-03 11:26:15

Local clock offset: 0.625 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2019-01-03 12:22:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 909.62 Mbit/s

95th percentile per-packet one-way delay: 9.464 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 534.82 Mbit/s

95th percentile per-packet one-way delay: 9.919 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 402.58 Mbit/s

95th percentile per-packet one-way delay: 7.455 ms

Loss rate: 0.04%

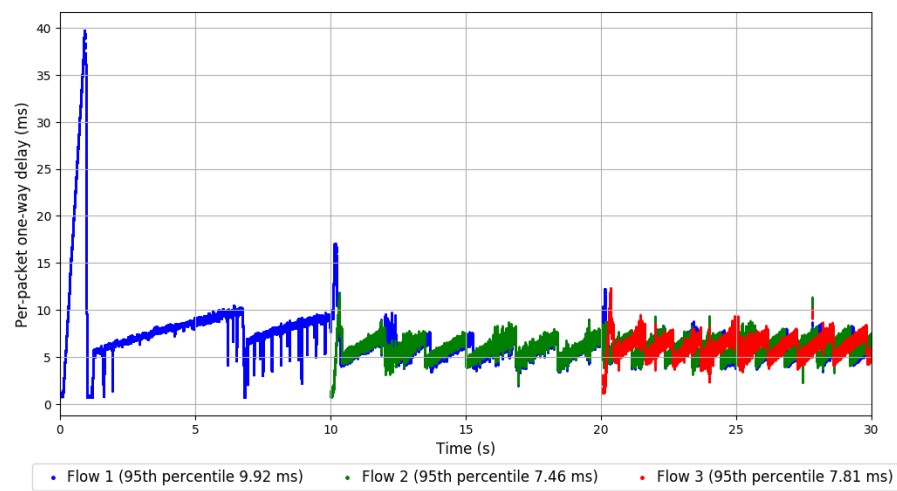
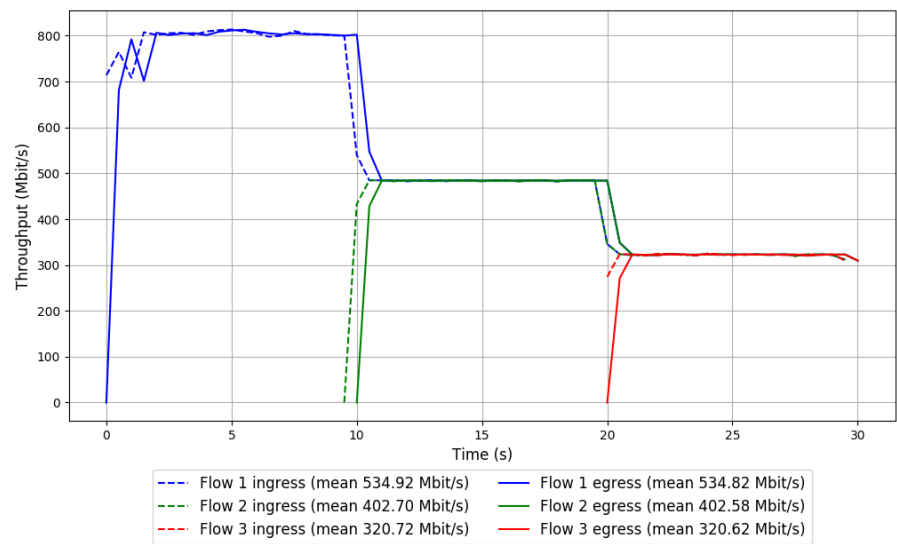
-- Flow 3:

Average throughput: 320.62 Mbit/s

95th percentile per-packet one-way delay: 7.808 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2019-01-03 11:53:26

End at: 2019-01-03 11:53:56

Local clock offset: 4.153 ms

Remote clock offset: 3.737 ms

Below is generated by plot.py at 2019-01-03 12:22:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 922.64 Mbit/s

95th percentile per-packet one-way delay: 7.418 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 547.90 Mbit/s

95th percentile per-packet one-way delay: 7.217 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 402.71 Mbit/s

95th percentile per-packet one-way delay: 7.526 ms

Loss rate: 0.03%

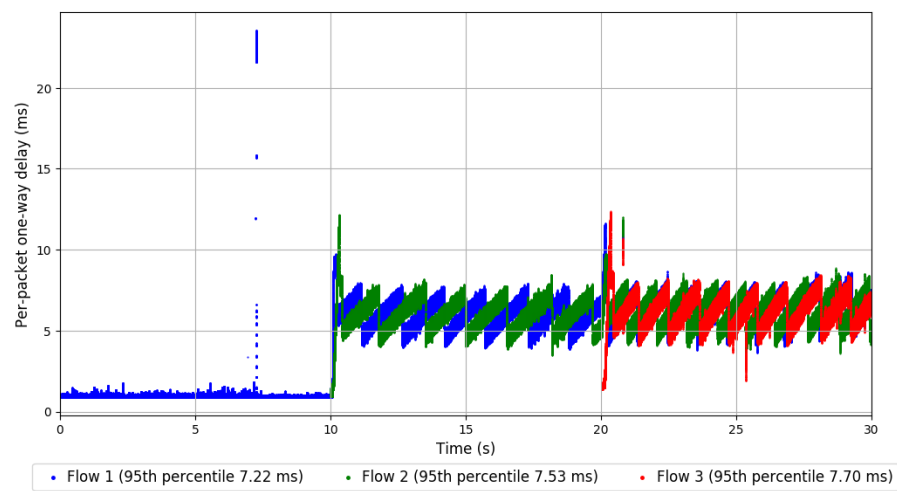
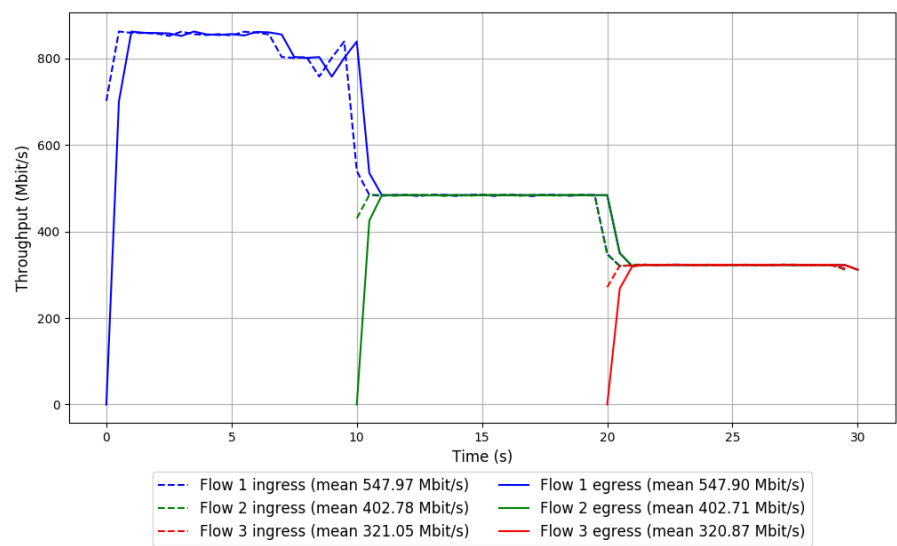
-- Flow 3:

Average throughput: 320.87 Mbit/s

95th percentile per-packet one-way delay: 7.701 ms

Loss rate: 0.08%

Run 5: Report of TCP Cubic — Data Link

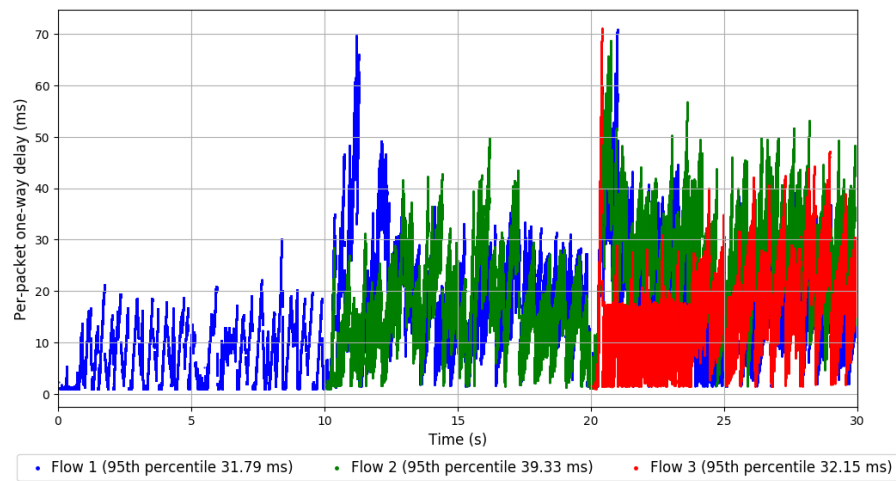
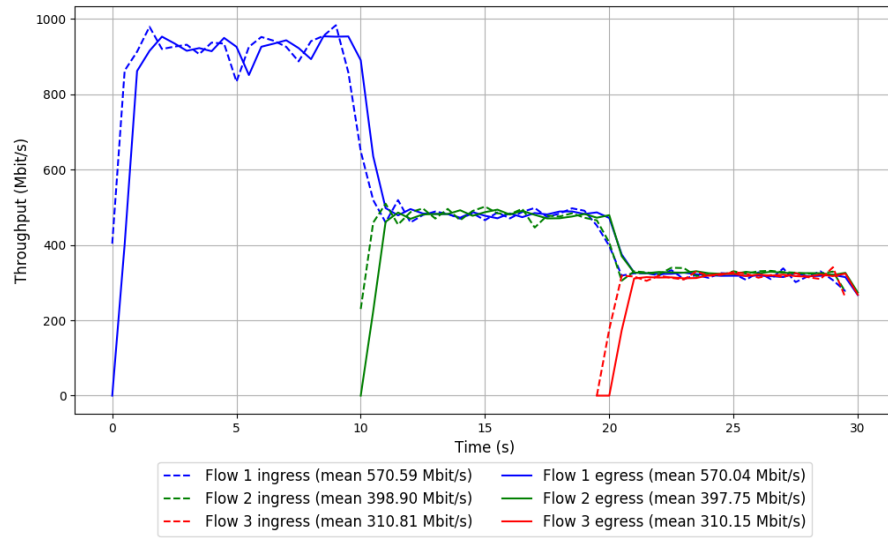


Run 1: Statistics of FillP

Start at: 2019-01-03 09:51:47
End at: 2019-01-03 09:52:17
Local clock offset: 0.131 ms
Remote clock offset: -1.307 ms

Below is generated by plot.py at 2019-01-03 12:25:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 937.58 Mbit/s
95th percentile per-packet one-way delay: 35.683 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 570.04 Mbit/s
95th percentile per-packet one-way delay: 31.791 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 397.75 Mbit/s
95th percentile per-packet one-way delay: 39.326 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 310.15 Mbit/s
95th percentile per-packet one-way delay: 32.147 ms
Loss rate: 0.24%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-01-03 10:19:32

End at: 2019-01-03 10:20:02

Local clock offset: 0.058 ms

Remote clock offset: -0.65 ms

Below is generated by plot.py at 2019-01-03 12:31:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 762.66 Mbit/s

95th percentile per-packet one-way delay: 30.033 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 450.64 Mbit/s

95th percentile per-packet one-way delay: 27.573 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 313.86 Mbit/s

95th percentile per-packet one-way delay: 24.134 ms

Loss rate: 0.09%

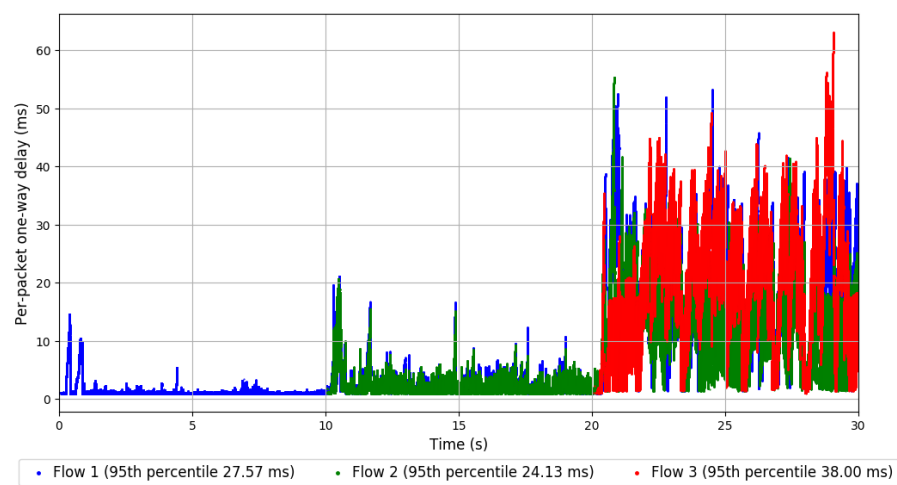
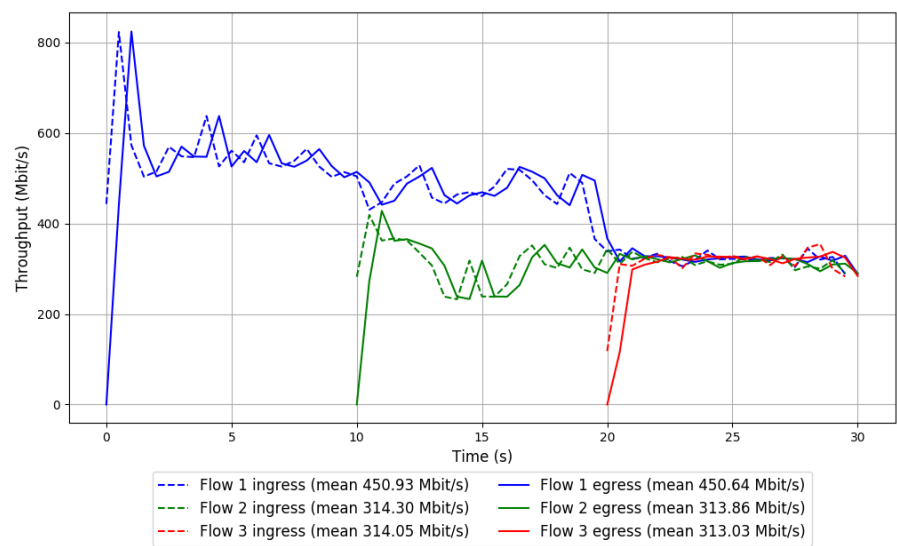
-- Flow 3:

Average throughput: 313.03 Mbit/s

95th percentile per-packet one-way delay: 37.999 ms

Loss rate: 0.31%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-03 10:47:15

End at: 2019-01-03 10:47:45

Local clock offset: 0.178 ms

Remote clock offset: -0.27 ms

Below is generated by plot.py at 2019-01-03 12:32:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 821.86 Mbit/s

95th percentile per-packet one-way delay: 30.250 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 483.96 Mbit/s

95th percentile per-packet one-way delay: 17.927 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 455.63 Mbit/s

95th percentile per-packet one-way delay: 39.942 ms

Loss rate: 0.05%

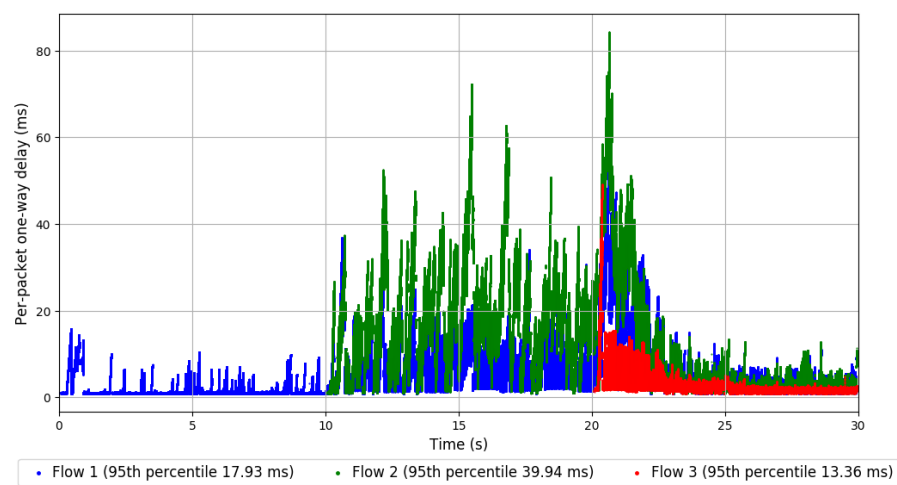
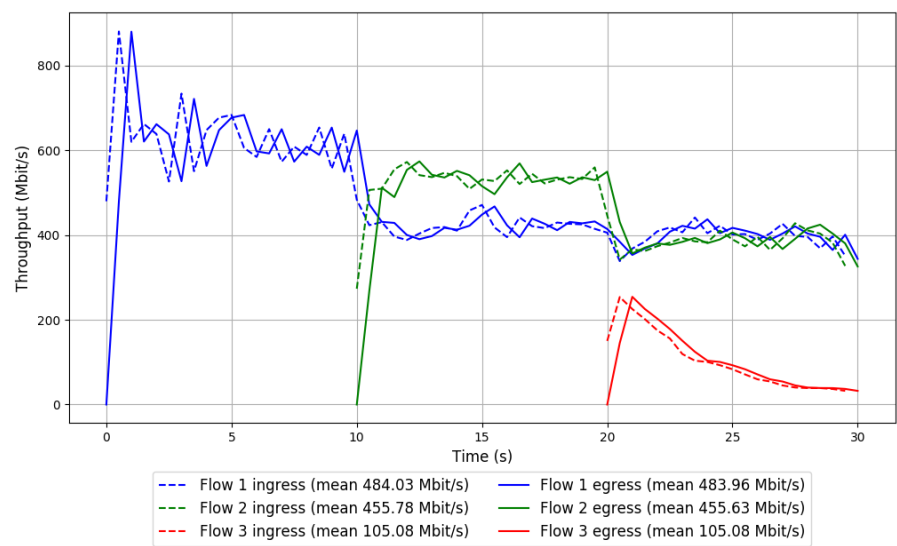
-- Flow 3:

Average throughput: 105.08 Mbit/s

95th percentile per-packet one-way delay: 13.364 ms

Loss rate: 0.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-03 11:14:46

End at: 2019-01-03 11:15:16

Local clock offset: 0.164 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2019-01-03 12:32:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 644.78 Mbit/s

95th percentile per-packet one-way delay: 6.476 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 458.31 Mbit/s

95th percentile per-packet one-way delay: 4.906 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 238.26 Mbit/s

95th percentile per-packet one-way delay: 7.923 ms

Loss rate: 0.00%

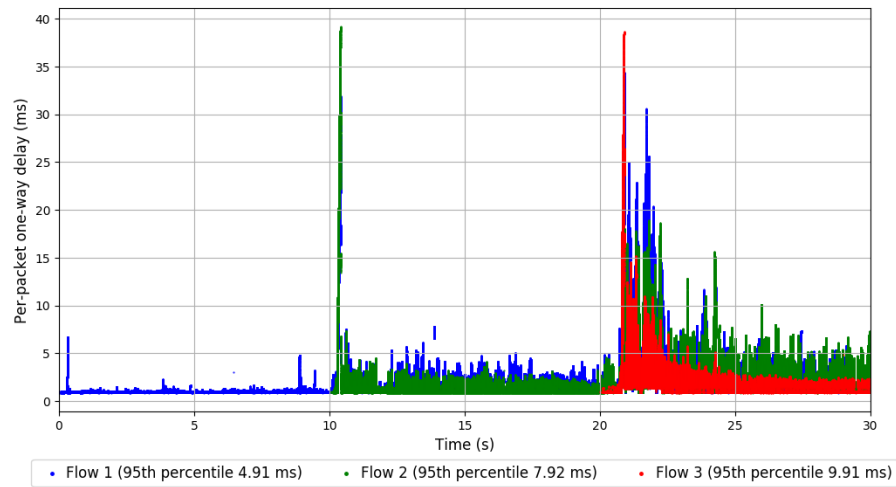
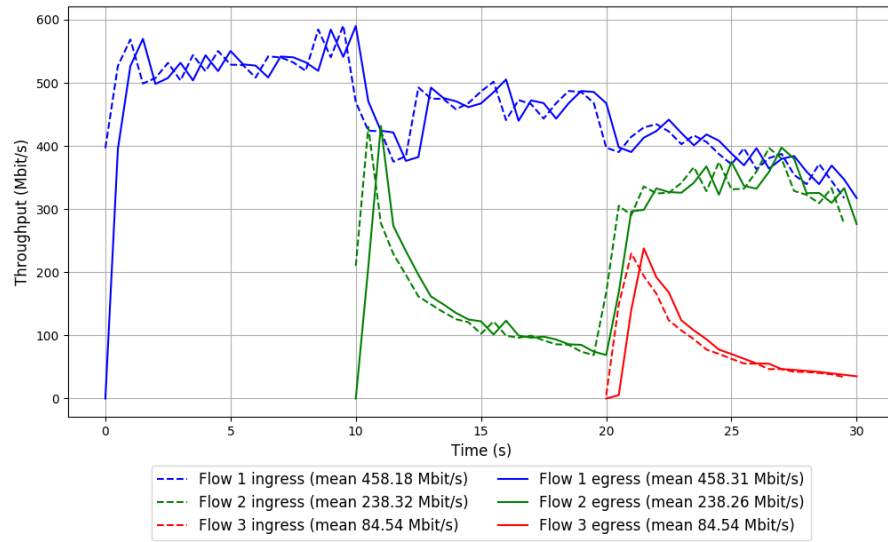
-- Flow 3:

Average throughput: 84.54 Mbit/s

95th percentile per-packet one-way delay: 9.907 ms

Loss rate: 0.00%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-01-03 11:42:13

End at: 2019-01-03 11:42:44

Local clock offset: 3.361 ms

Remote clock offset: 2.927 ms

Below is generated by plot.py at 2019-01-03 12:34:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 941.80 Mbit/s

95th percentile per-packet one-way delay: 35.168 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 576.35 Mbit/s

95th percentile per-packet one-way delay: 36.812 ms

Loss rate: 0.13%

-- Flow 2:

Average throughput: 395.12 Mbit/s

95th percentile per-packet one-way delay: 31.329 ms

Loss rate: 0.03%

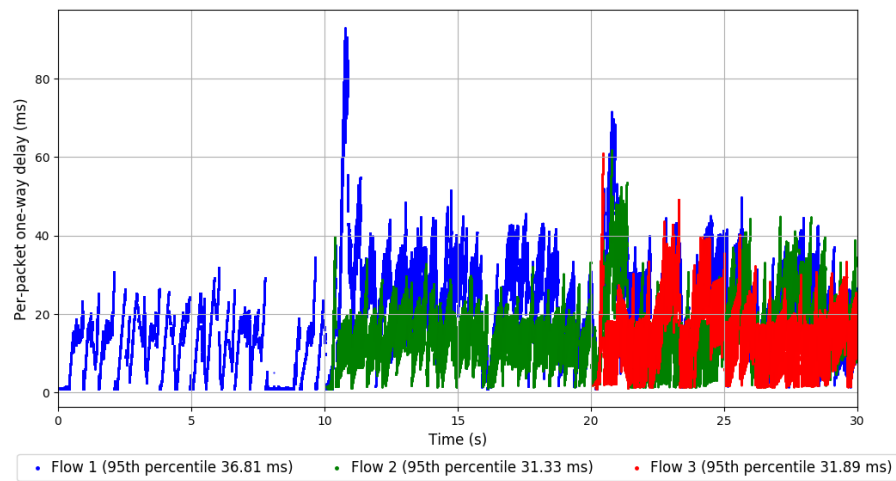
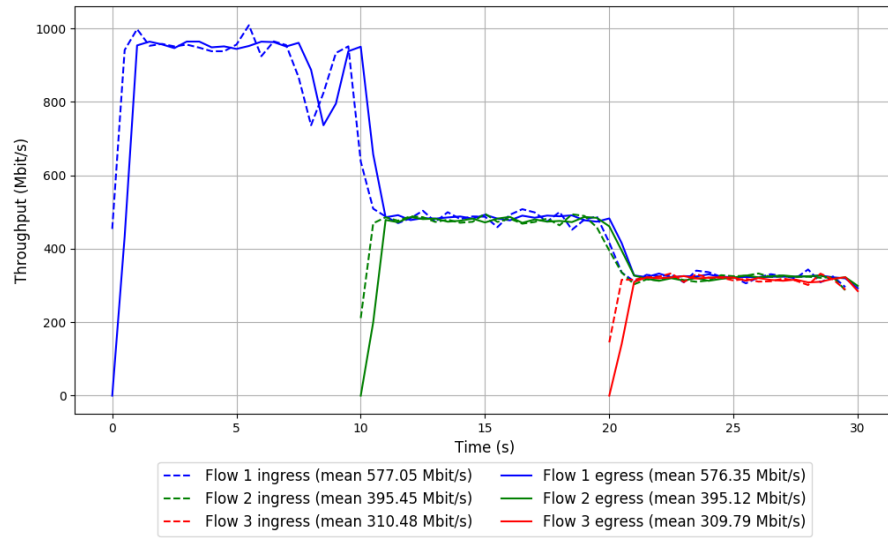
-- Flow 3:

Average throughput: 309.79 Mbit/s

95th percentile per-packet one-way delay: 31.894 ms

Loss rate: 0.27%

Run 5: Report of FillP — Data Link

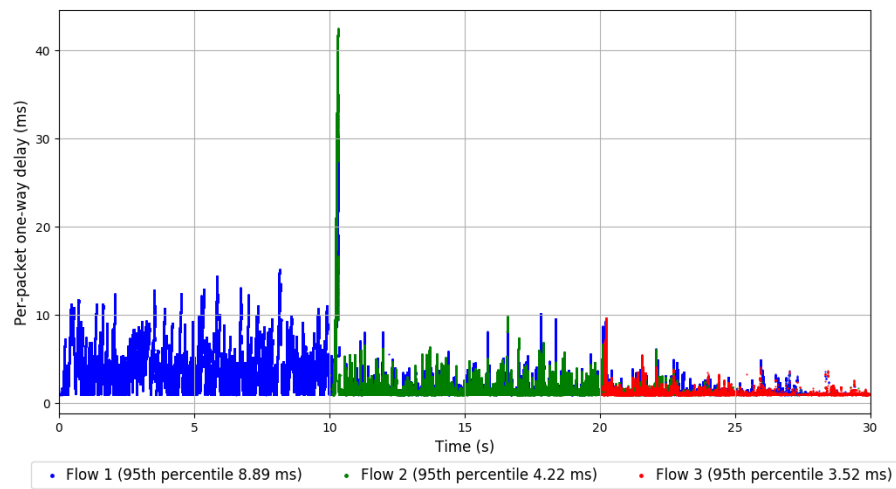
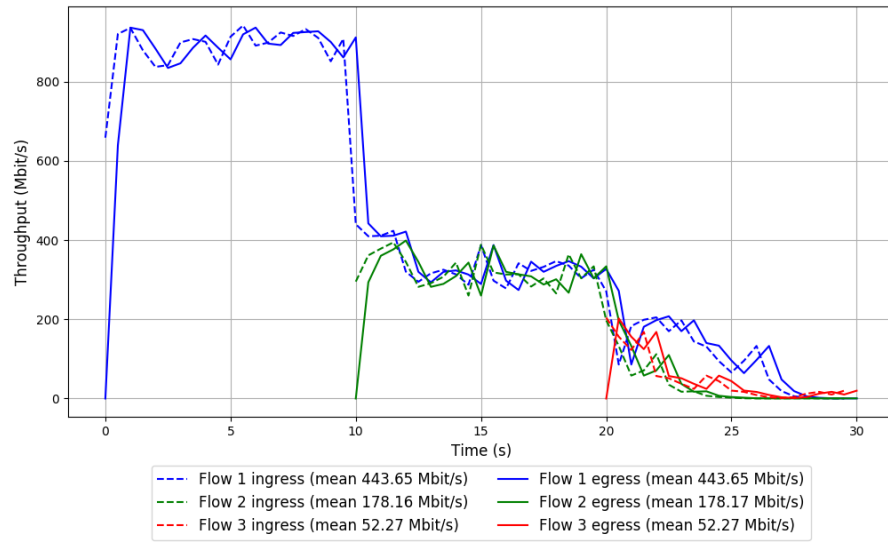


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-03 09:42:53
End at: 2019-01-03 09:43:23
Local clock offset: 0.563 ms
Remote clock offset: -2.478 ms

Below is generated by plot.py at 2019-01-03 12:34:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 579.37 Mbit/s
95th percentile per-packet one-way delay: 8.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 443.65 Mbit/s
95th percentile per-packet one-way delay: 8.894 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 178.17 Mbit/s
95th percentile per-packet one-way delay: 4.216 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.27 Mbit/s
95th percentile per-packet one-way delay: 3.520 ms
Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link

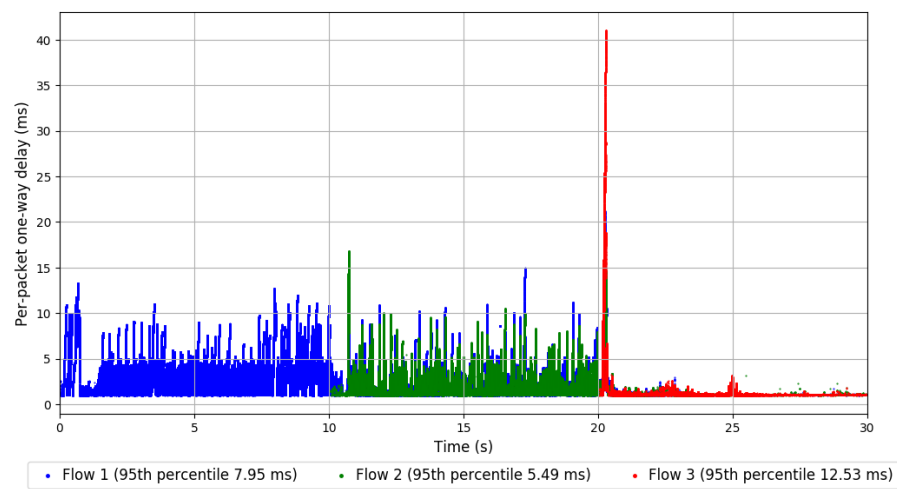
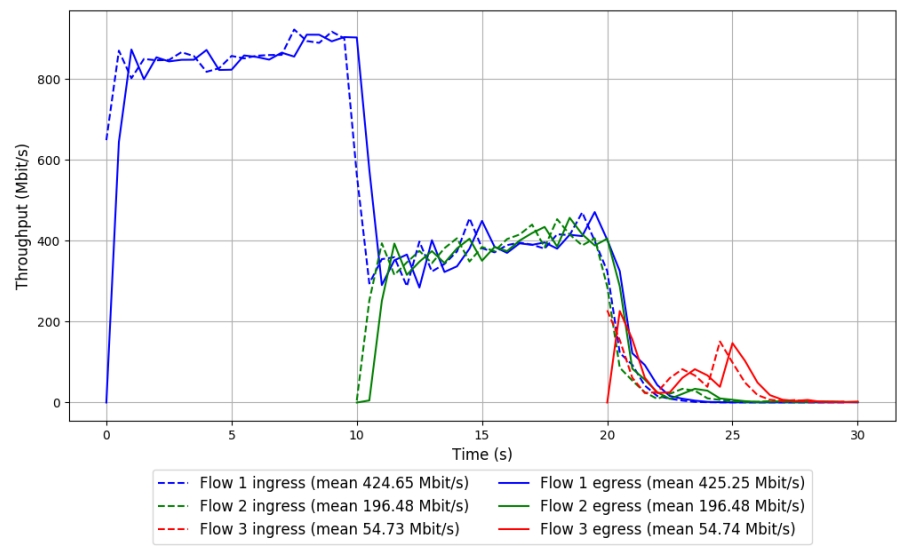


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-03 10:10:39
End at: 2019-01-03 10:11:09
Local clock offset: 0.062 ms
Remote clock offset: -0.705 ms

Below is generated by plot.py at 2019-01-03 12:34:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 573.44 Mbit/s
95th percentile per-packet one-way delay: 7.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 425.25 Mbit/s
95th percentile per-packet one-way delay: 7.954 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 196.48 Mbit/s
95th percentile per-packet one-way delay: 5.489 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 54.74 Mbit/s
95th percentile per-packet one-way delay: 12.529 ms
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link

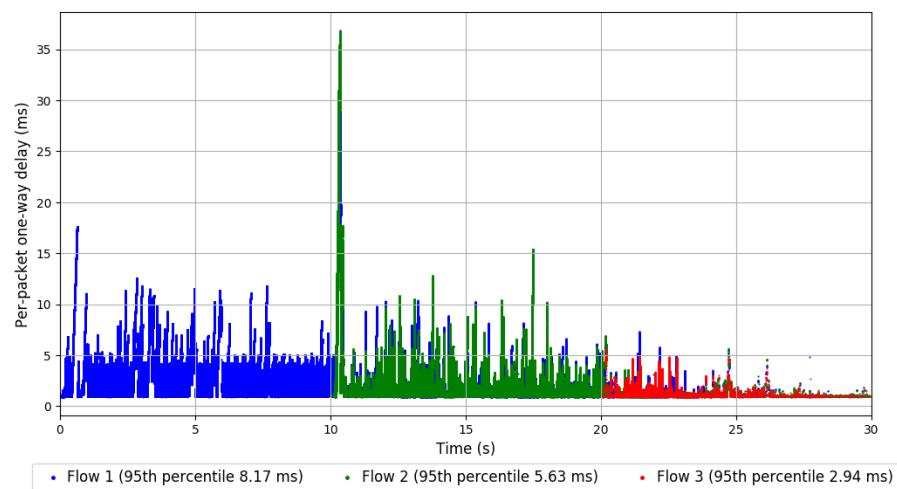
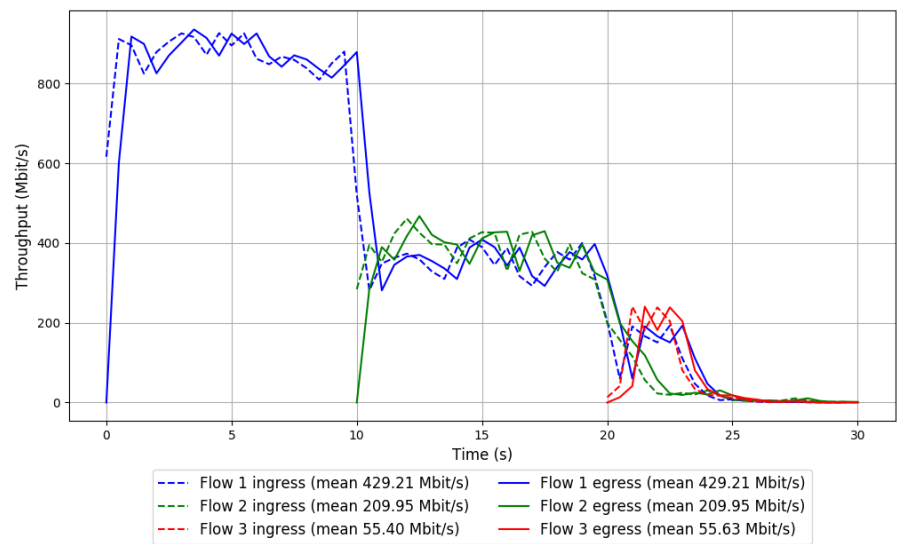


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-03 10:38:24
End at: 2019-01-03 10:38:54
Local clock offset: 0.155 ms
Remote clock offset: -0.296 ms

Below is generated by plot.py at 2019-01-03 12:34:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 587.10 Mbit/s
95th percentile per-packet one-way delay: 7.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 429.21 Mbit/s
95th percentile per-packet one-way delay: 8.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 209.95 Mbit/s
95th percentile per-packet one-way delay: 5.631 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 2.939 ms
Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-03 11:05:52

End at: 2019-01-03 11:06:22

Local clock offset: 0.129 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2019-01-03 12:34:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.96 Mbit/s

95th percentile per-packet one-way delay: 7.573 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 420.61 Mbit/s

95th percentile per-packet one-way delay: 7.921 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 184.06 Mbit/s

95th percentile per-packet one-way delay: 4.731 ms

Loss rate: 0.00%

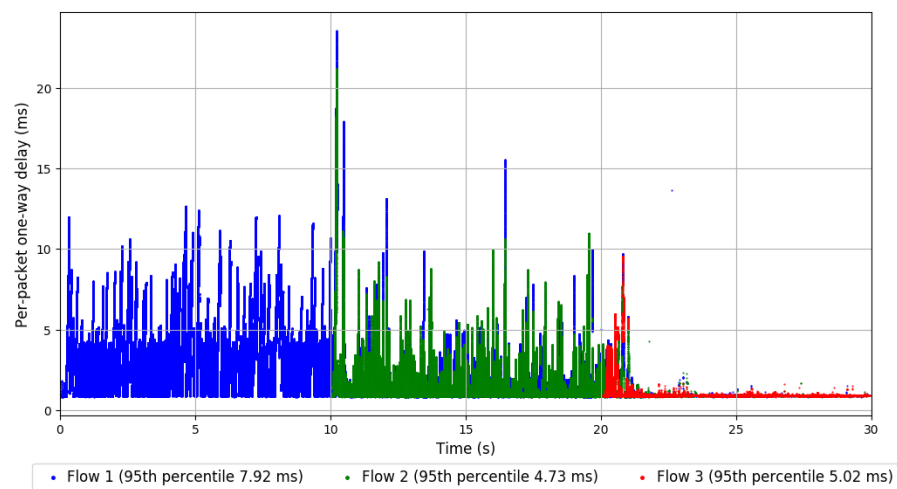
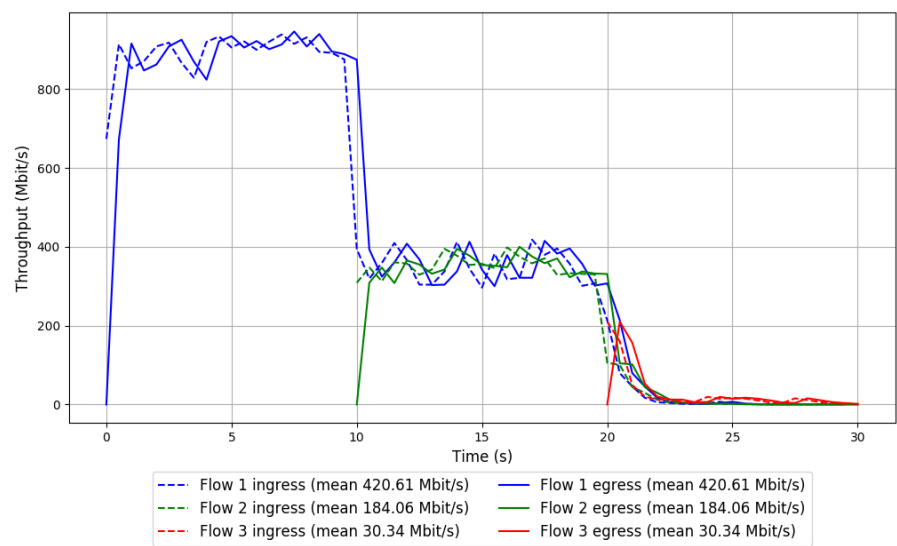
-- Flow 3:

Average throughput: 30.34 Mbit/s

95th percentile per-packet one-way delay: 5.019 ms

Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2019-01-03 11:33:21

End at: 2019-01-03 11:33:51

Local clock offset: 2.341 ms

Remote clock offset: 1.769 ms

Below is generated by plot.py at 2019-01-03 12:37:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 575.92 Mbit/s

95th percentile per-packet one-way delay: 7.099 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 424.81 Mbit/s

95th percentile per-packet one-way delay: 7.442 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 202.37 Mbit/s

95th percentile per-packet one-way delay: 5.152 ms

Loss rate: 0.00%

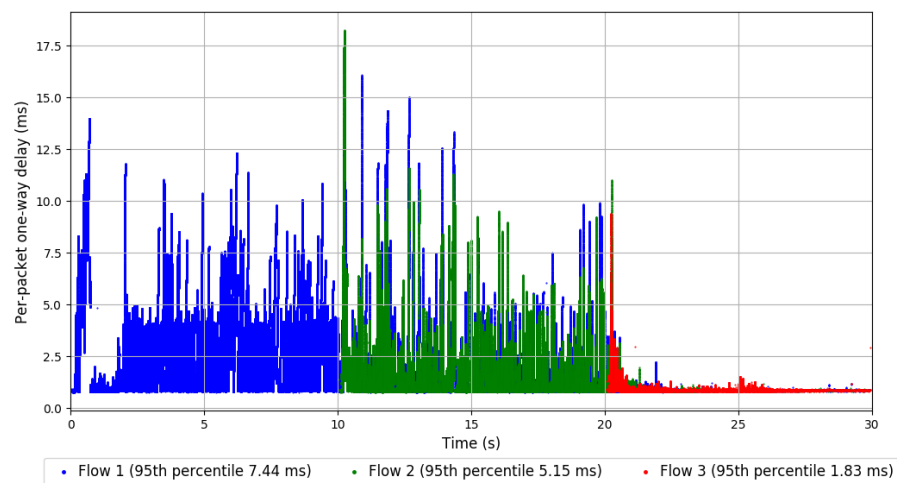
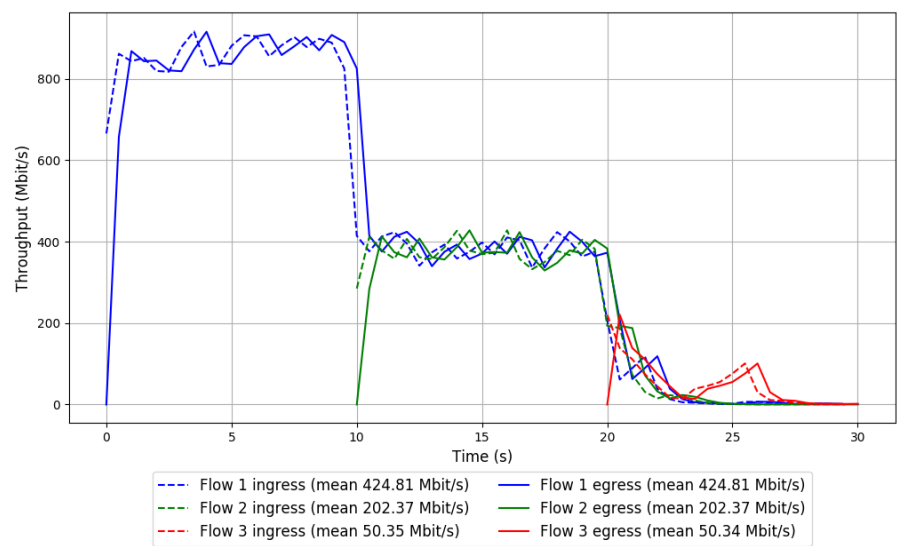
-- Flow 3:

Average throughput: 50.34 Mbit/s

95th percentile per-packet one-way delay: 1.831 ms

Loss rate: 0.00%

Run 5: Report of FillP-Sheep — Data Link

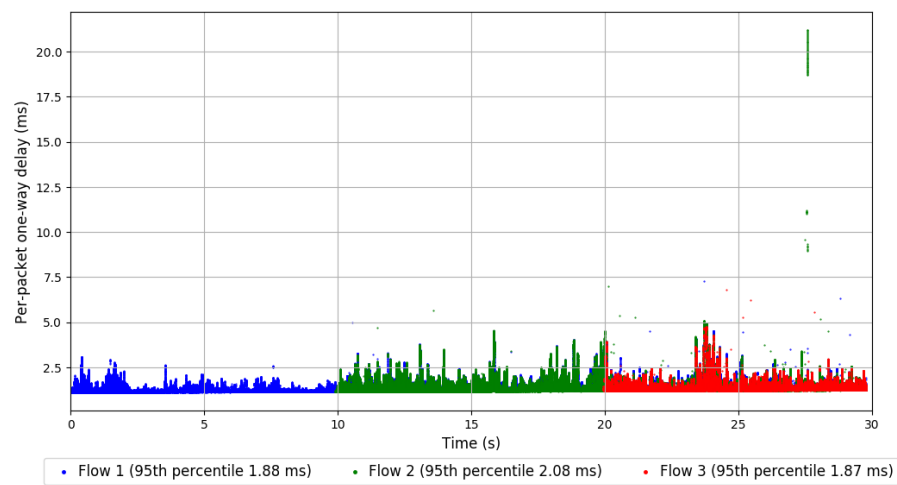
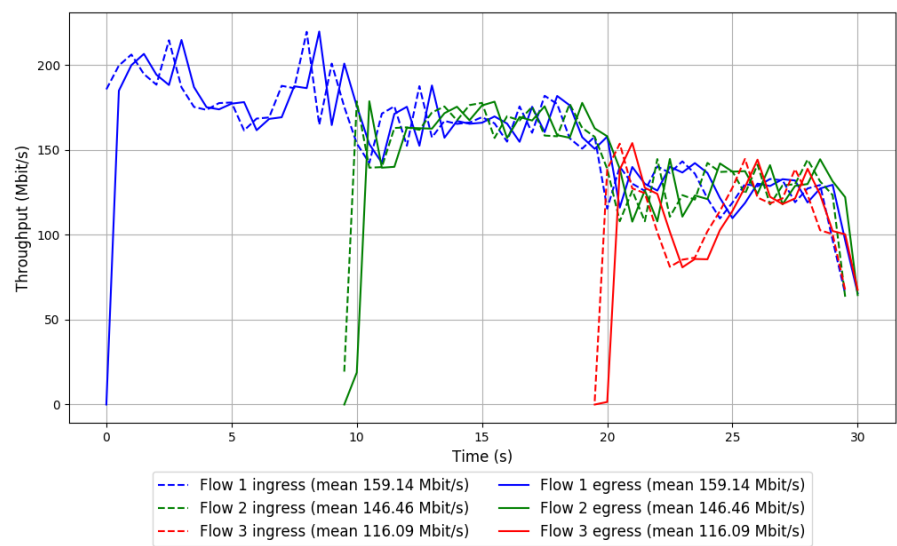


Run 1: Statistics of Indigo

Start at: 2019-01-03 09:45:41
End at: 2019-01-03 09:46:11
Local clock offset: 0.415 ms
Remote clock offset: -2.351 ms

Below is generated by plot.py at 2019-01-03 12:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.13 Mbit/s
95th percentile per-packet one-way delay: 1.947 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 159.14 Mbit/s
95th percentile per-packet one-way delay: 1.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.46 Mbit/s
95th percentile per-packet one-way delay: 2.075 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 116.09 Mbit/s
95th percentile per-packet one-way delay: 1.874 ms
Loss rate: 0.02%

Run 1: Report of Indigo — Data Link

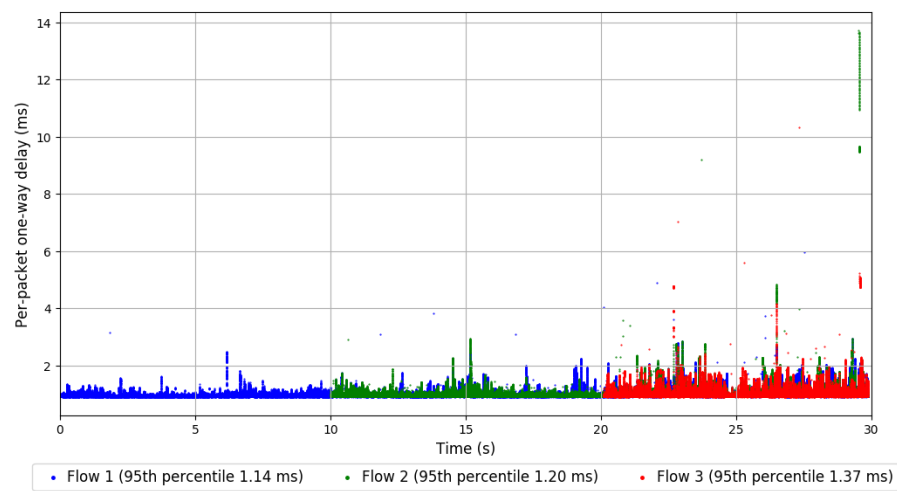
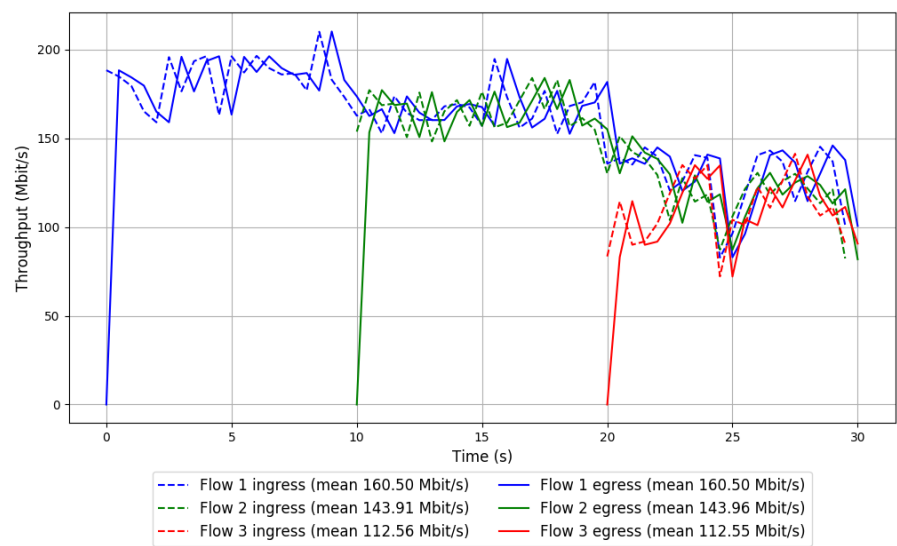


Run 2: Statistics of Indigo

Start at: 2019-01-03 10:13:27
End at: 2019-01-03 10:13:57
Local clock offset: 0.061 ms
Remote clock offset: -0.601 ms

Below is generated by plot.py at 2019-01-03 12:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.05 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 160.50 Mbit/s
95th percentile per-packet one-way delay: 1.143 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 143.96 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 112.55 Mbit/s
95th percentile per-packet one-way delay: 1.372 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

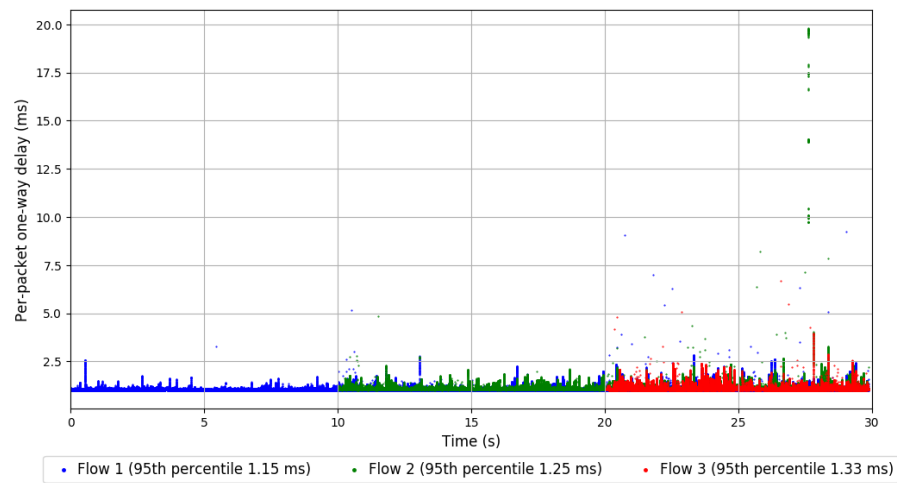
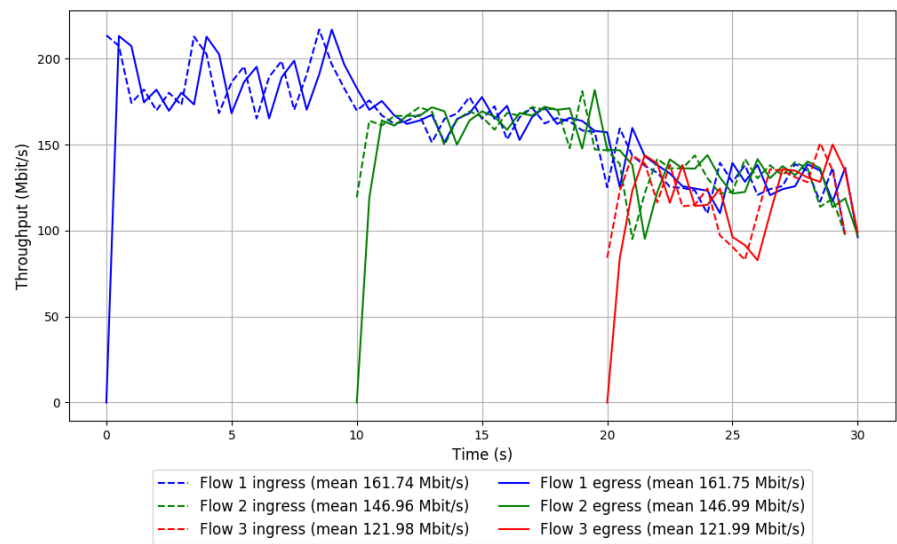


Run 3: Statistics of Indigo

Start at: 2019-01-03 10:41:11
End at: 2019-01-03 10:41:41
Local clock offset: 0.168 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2019-01-03 12:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 299.46 Mbit/s
95th percentile per-packet one-way delay: 1.216 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 161.75 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 146.99 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 121.99 Mbit/s
95th percentile per-packet one-way delay: 1.335 ms
Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2019-01-03 11:08:39

End at: 2019-01-03 11:09:09

Local clock offset: 0.153 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2019-01-03 12:37:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 300.30 Mbit/s

95th percentile per-packet one-way delay: 1.367 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 159.62 Mbit/s

95th percentile per-packet one-way delay: 1.335 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 147.98 Mbit/s

95th percentile per-packet one-way delay: 1.326 ms

Loss rate: 0.00%

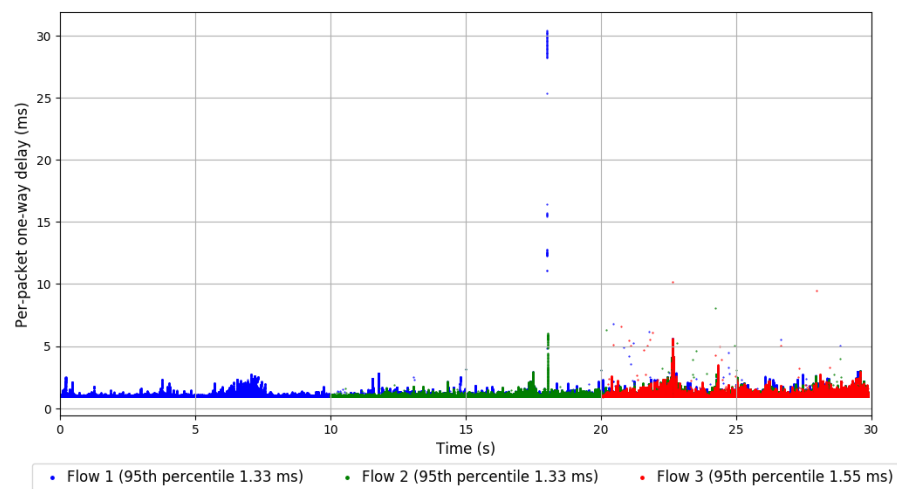
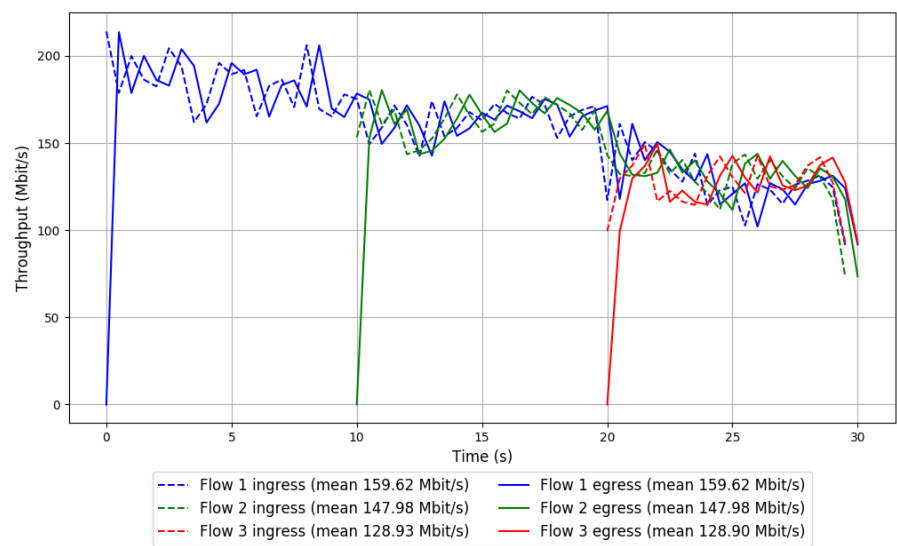
-- Flow 3:

Average throughput: 128.90 Mbit/s

95th percentile per-packet one-way delay: 1.548 ms

Loss rate: 0.03%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-03 11:36:08

End at: 2019-01-03 11:36:38

Local clock offset: 2.732 ms

Remote clock offset: 2.205 ms

Below is generated by plot.py at 2019-01-03 12:37:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 293.94 Mbit/s

95th percentile per-packet one-way delay: 1.893 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 156.36 Mbit/s

95th percentile per-packet one-way delay: 1.685 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 146.95 Mbit/s

95th percentile per-packet one-way delay: 2.056 ms

Loss rate: 0.00%

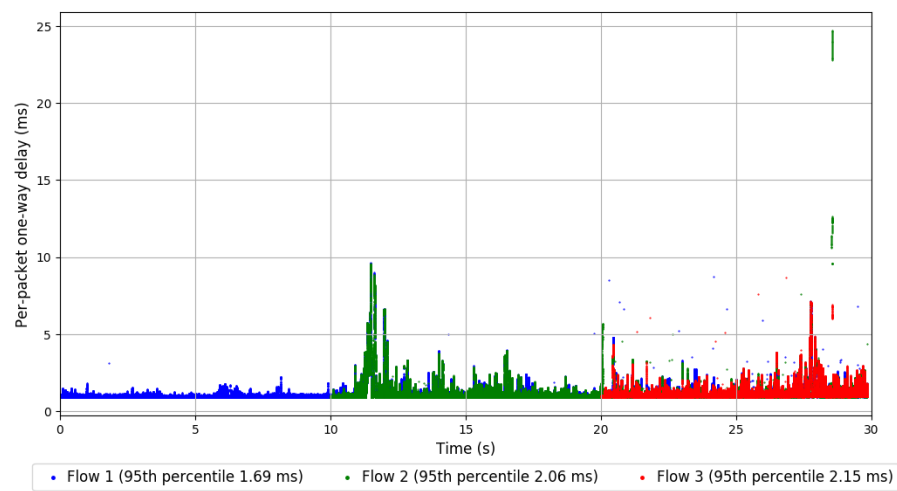
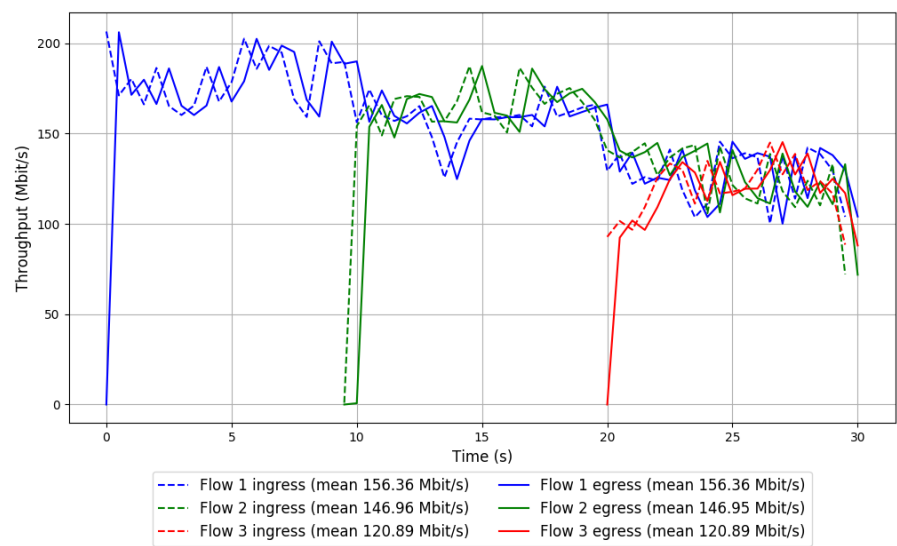
-- Flow 3:

Average throughput: 120.89 Mbit/s

95th percentile per-packet one-way delay: 2.154 ms

Loss rate: 0.02%

Run 5: Report of Indigo — Data Link

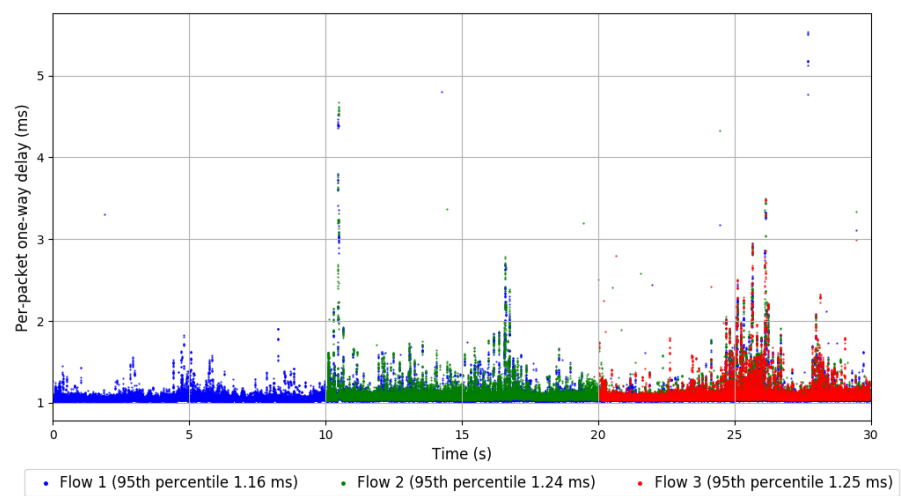
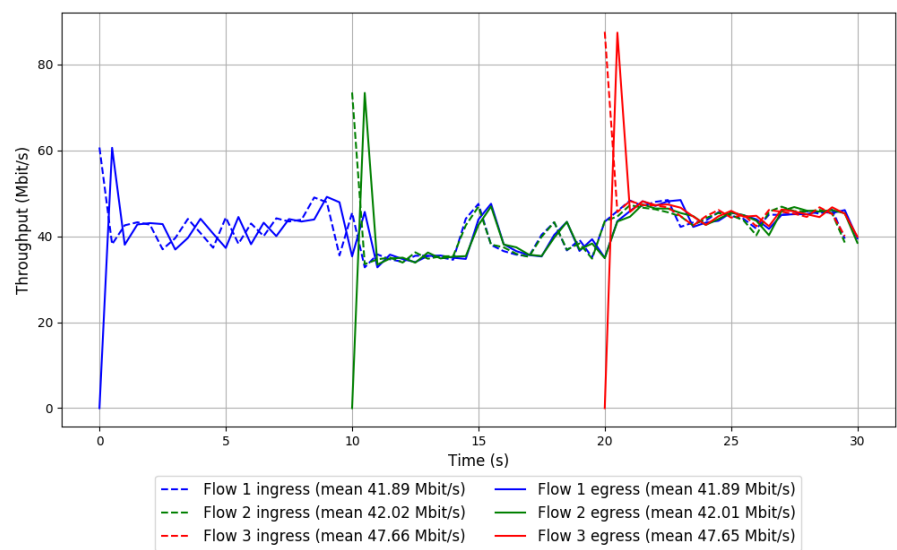


Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:00:37
End at: 2019-01-03 10:01:07
Local clock offset: 0.063 ms
Remote clock offset: -0.793 ms

Below is generated by plot.py at 2019-01-03 12:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.65 Mbit/s
95th percentile per-packet one-way delay: 1.203 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 41.89 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 1.254 ms
Loss rate: 0.02%

Run 1: Report of Indigo-MusesD — Data Link

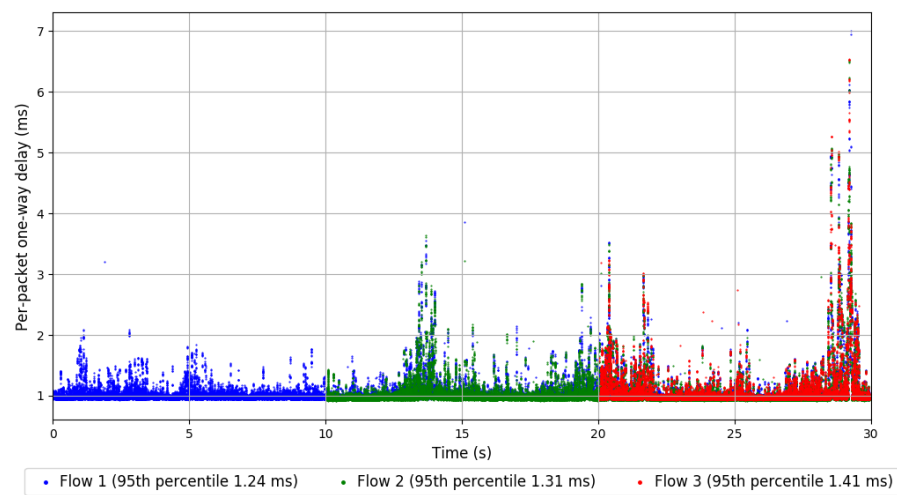
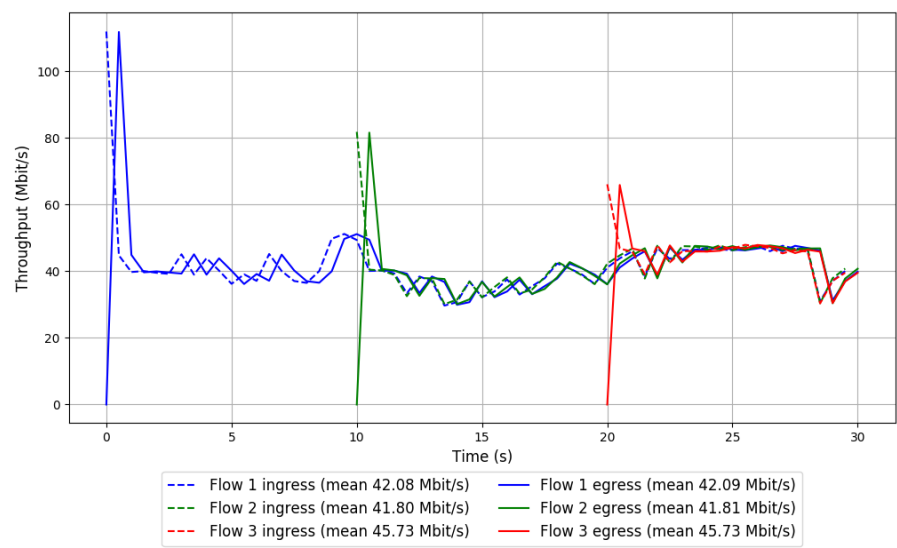


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:28:12
End at: 2019-01-03 10:28:42
Local clock offset: 0.101 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2019-01-03 12:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.06 Mbit/s
95th percentile per-packet one-way delay: 1.289 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 42.09 Mbit/s
95th percentile per-packet one-way delay: 1.237 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 41.81 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 45.73 Mbit/s
95th percentile per-packet one-way delay: 1.405 ms
Loss rate: 0.03%

Run 2: Report of Indigo-MusesD — Data Link

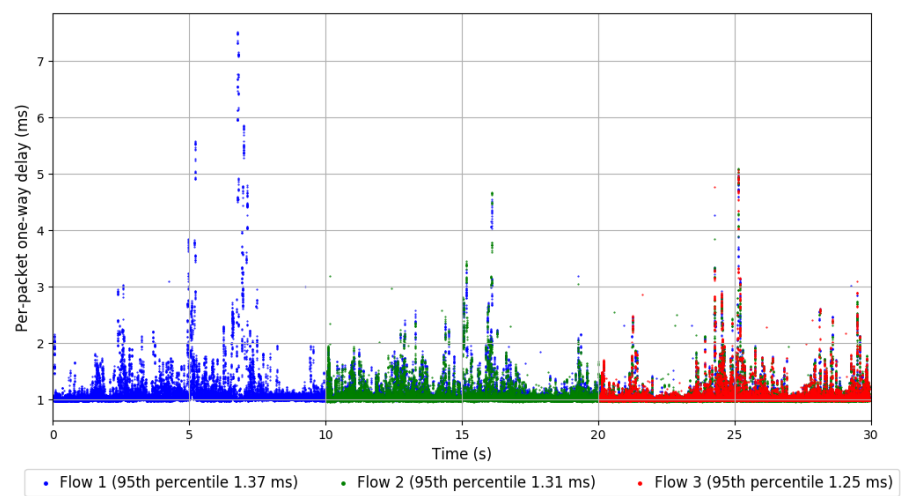
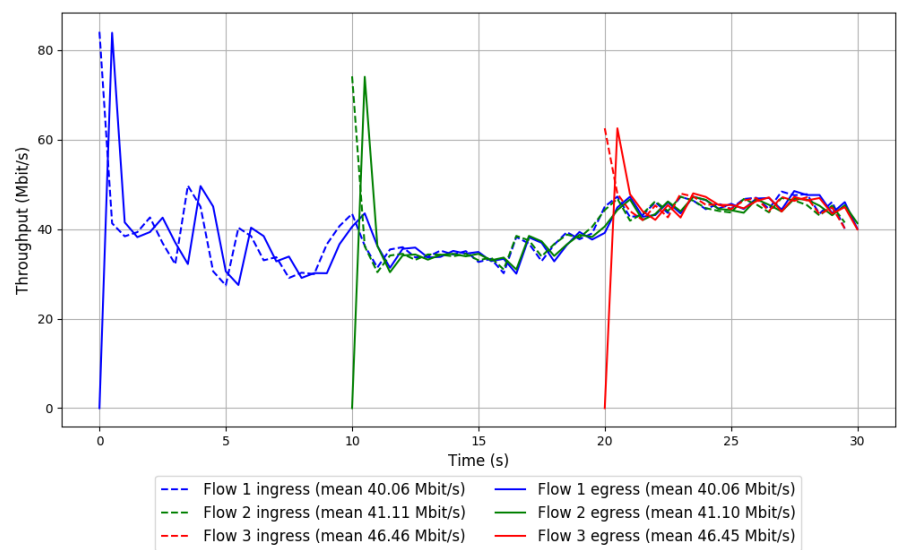


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:55:48
End at: 2019-01-03 10:56:18
Local clock offset: 0.169 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2019-01-03 12:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.81 Mbit/s
95th percentile per-packet one-way delay: 1.329 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 40.06 Mbit/s
95th percentile per-packet one-way delay: 1.372 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 41.10 Mbit/s
95th percentile per-packet one-way delay: 1.314 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 46.45 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 0.02%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-03 11:23:13

End at: 2019-01-03 11:23:43

Local clock offset: 0.197 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2019-01-03 12:37:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 85.12 Mbit/s

95th percentile per-packet one-way delay: 1.165 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 41.34 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.01%

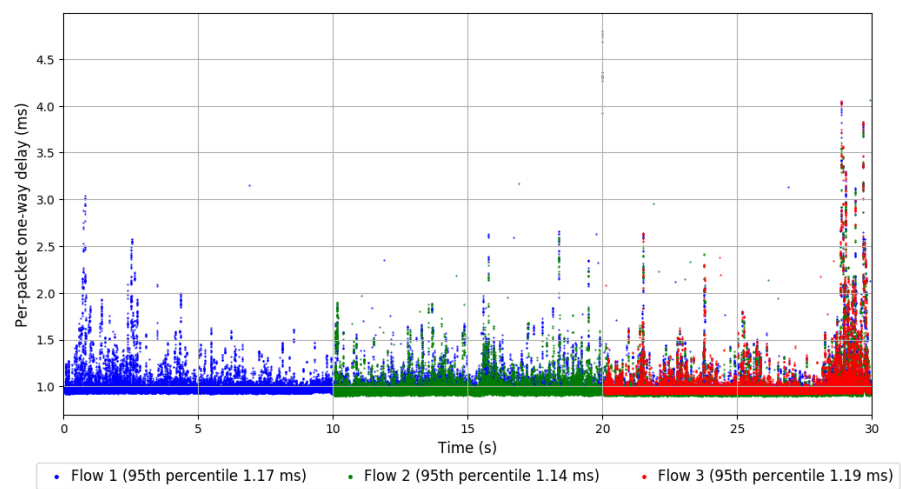
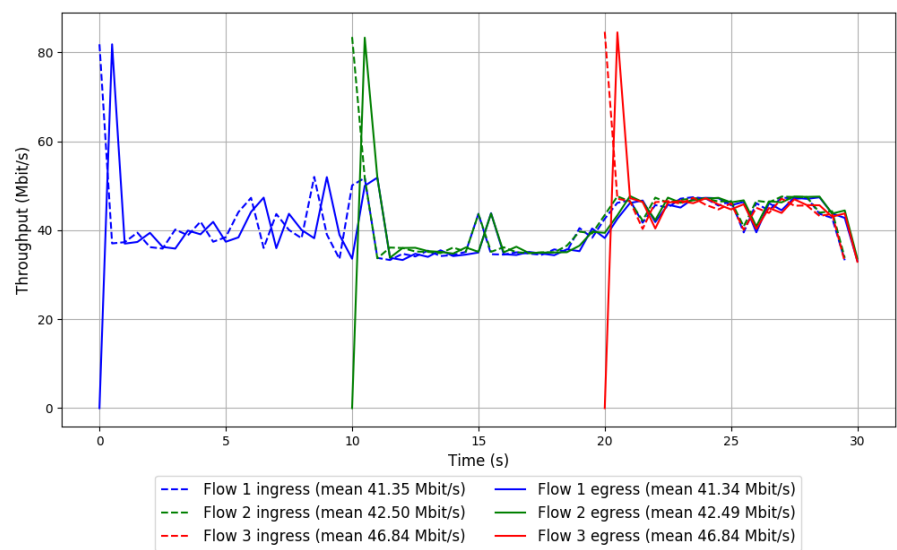
-- Flow 3:

Average throughput: 46.84 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.01%

Run 4: Report of Indigo-MusesD — Data Link

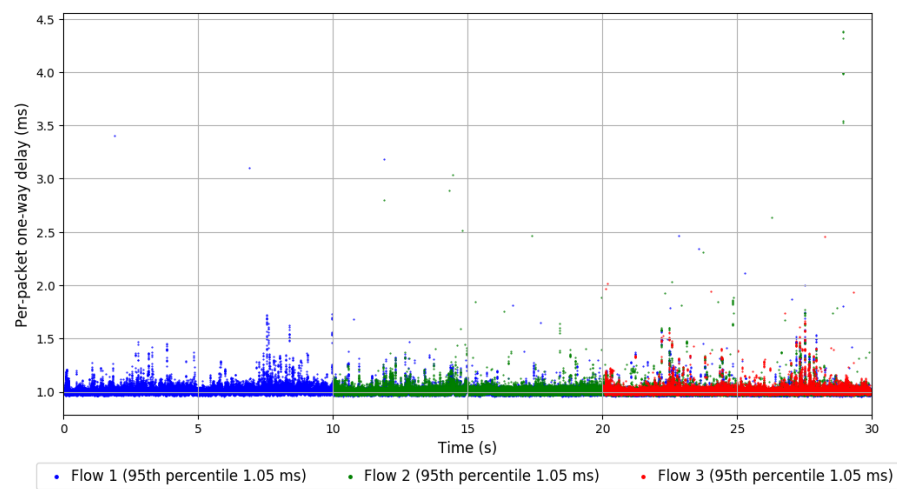
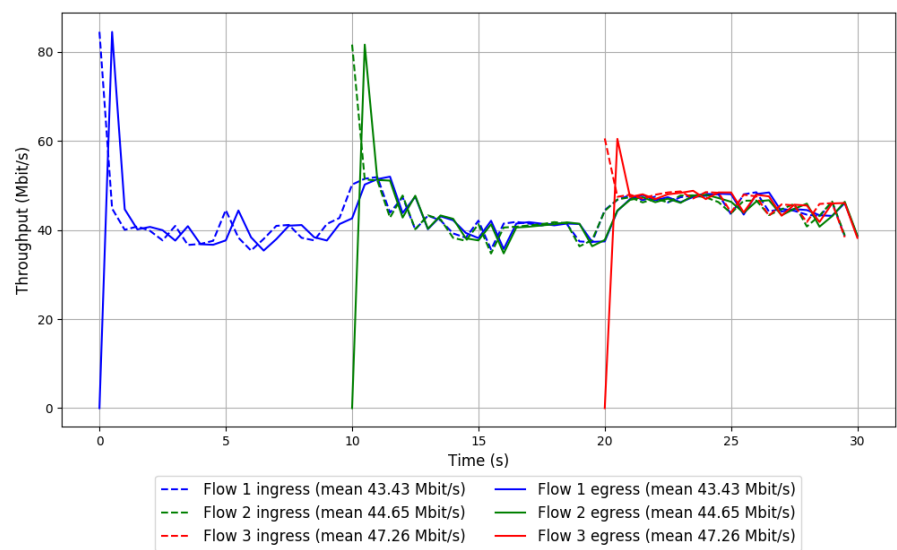


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-03 11:50:53
End at: 2019-01-03 11:51:23
Local clock offset: 4.002 ms
Remote clock offset: 3.549 ms

Below is generated by plot.py at 2019-01-03 12:37:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.81 Mbit/s
95th percentile per-packet one-way delay: 1.050 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 43.43 Mbit/s
95th percentile per-packet one-way delay: 1.052 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 44.65 Mbit/s
95th percentile per-packet one-way delay: 1.047 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 47.26 Mbit/s
95th percentile per-packet one-way delay: 1.048 ms
Loss rate: 0.02%

Run 5: Report of Indigo-MusesD — Data Link

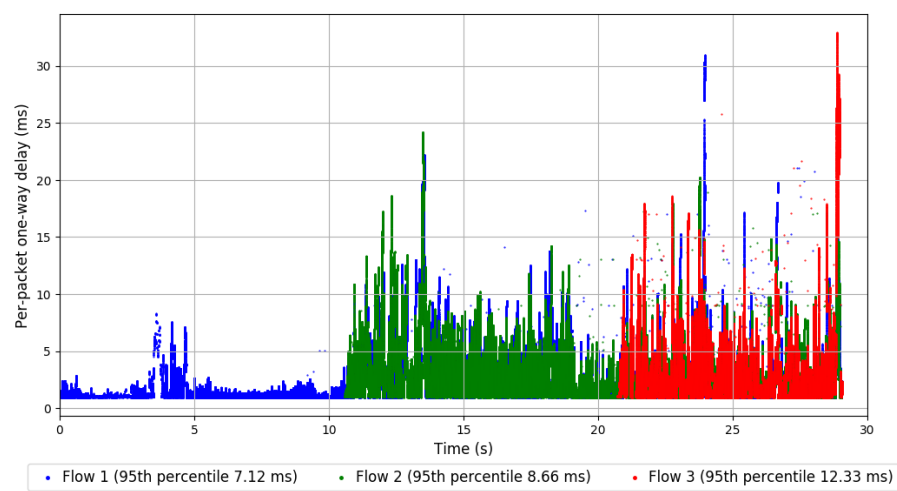
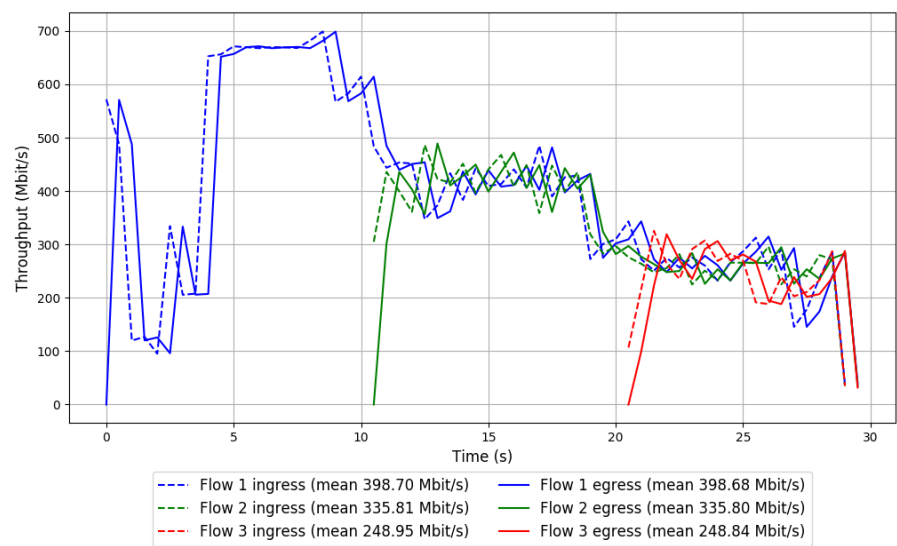


Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-03 09:39:54
End at: 2019-01-03 09:40:24
Local clock offset: 0.846 ms
Remote clock offset: -2.109 ms

Below is generated by plot.py at 2019-01-03 12:41:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 683.56 Mbit/s
95th percentile per-packet one-way delay: 8.151 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 398.68 Mbit/s
95th percentile per-packet one-way delay: 7.121 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 335.80 Mbit/s
95th percentile per-packet one-way delay: 8.662 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 248.84 Mbit/s
95th percentile per-packet one-way delay: 12.332 ms
Loss rate: 0.08%

Run 1: Report of Indigo-MusesT — Data Link

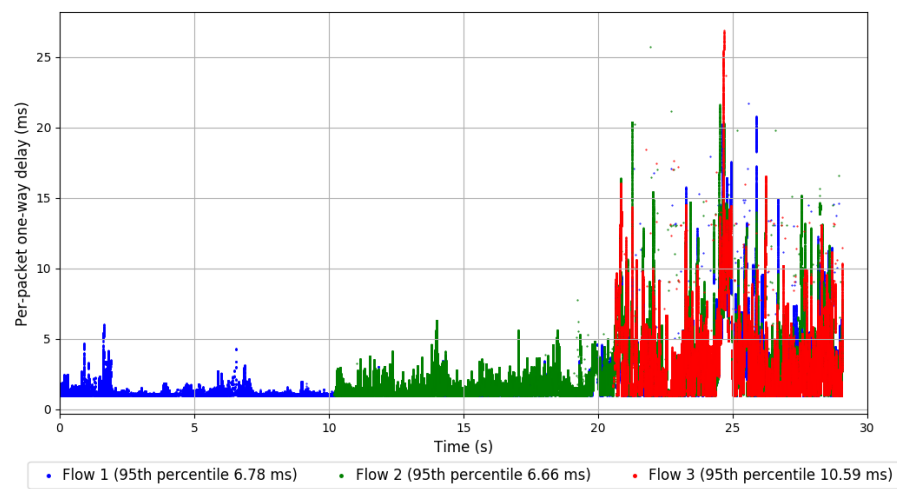
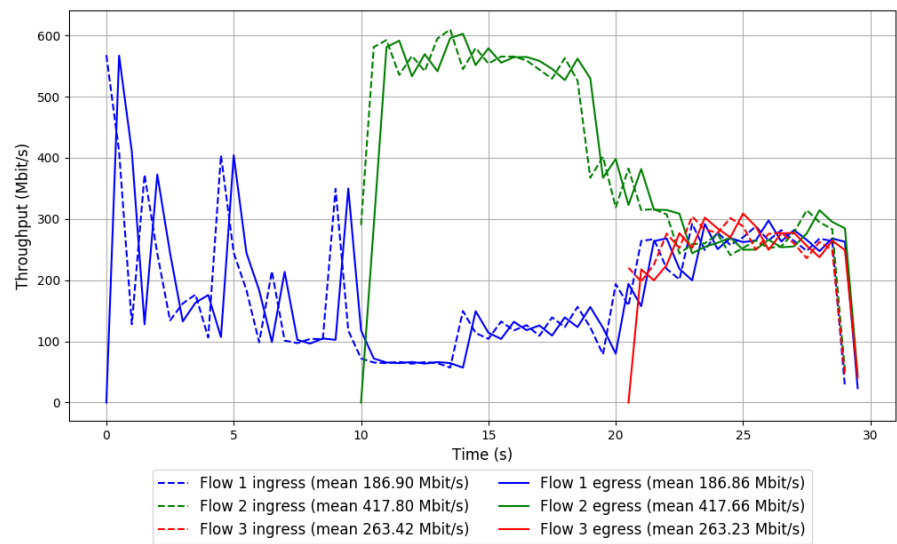


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-03 10:07:45
End at: 2019-01-03 10:08:15
Local clock offset: 0.04 ms
Remote clock offset: -0.701 ms

Below is generated by plot.py at 2019-01-03 12:41:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 535.13 Mbit/s
95th percentile per-packet one-way delay: 7.524 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 186.86 Mbit/s
95th percentile per-packet one-way delay: 6.779 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 417.66 Mbit/s
95th percentile per-packet one-way delay: 6.655 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 263.23 Mbit/s
95th percentile per-packet one-way delay: 10.586 ms
Loss rate: 0.10%

Run 2: Report of Indigo-MusesT — Data Link

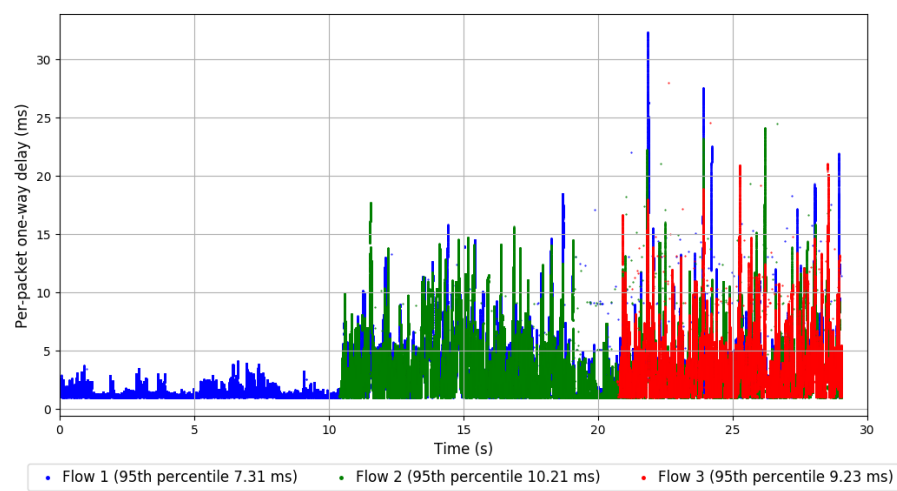
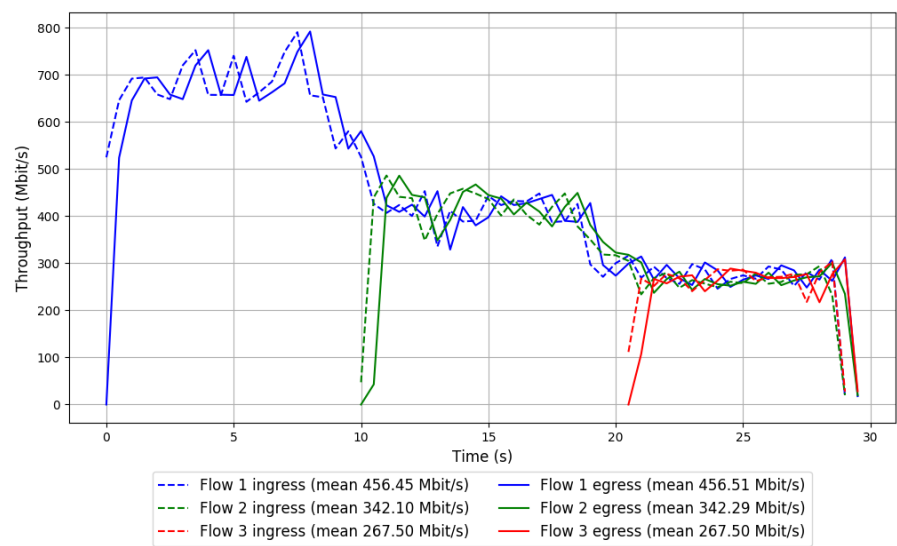


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-03 10:35:21
End at: 2019-01-03 10:35:51
Local clock offset: 0.163 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2019-01-03 12:42:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 752.90 Mbit/s
95th percentile per-packet one-way delay: 8.792 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 456.51 Mbit/s
95th percentile per-packet one-way delay: 7.311 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 342.29 Mbit/s
95th percentile per-packet one-way delay: 10.214 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 267.50 Mbit/s
95th percentile per-packet one-way delay: 9.234 ms
Loss rate: 0.05%

Run 3: Report of Indigo-MusesT — Data Link

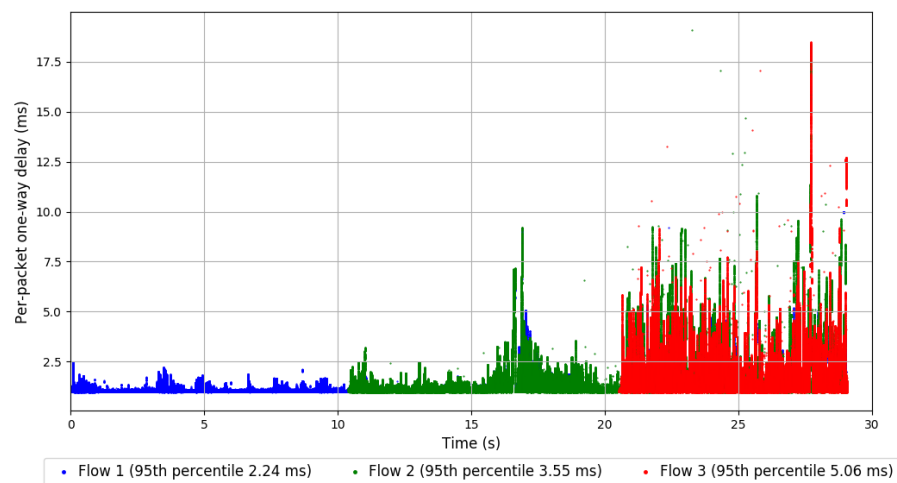
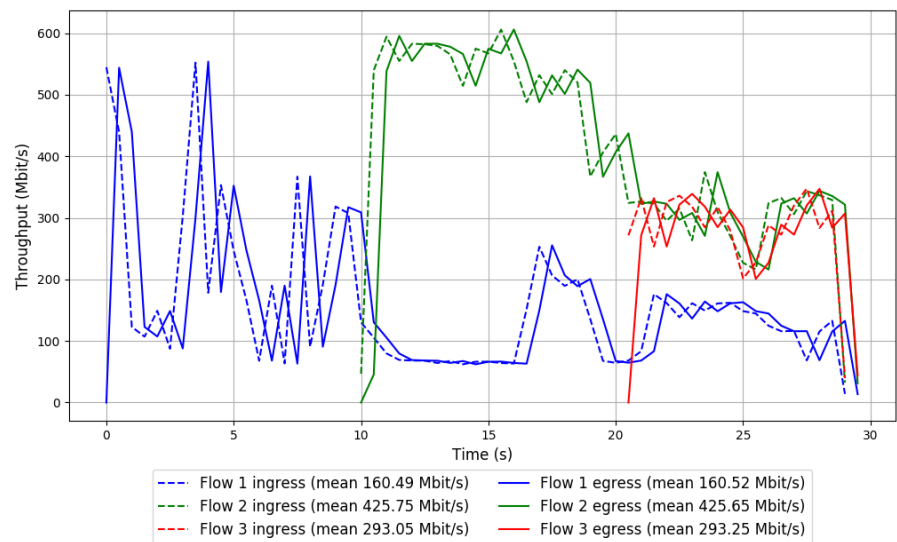


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-03 11:02:56
End at: 2019-01-03 11:03:26
Local clock offset: 0.148 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2019-01-03 12:42:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 520.07 Mbit/s
95th percentile per-packet one-way delay: 3.549 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 160.52 Mbit/s
95th percentile per-packet one-way delay: 2.237 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 425.65 Mbit/s
95th percentile per-packet one-way delay: 3.553 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 293.25 Mbit/s
95th percentile per-packet one-way delay: 5.058 ms
Loss rate: 0.01%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-03 11:30:25

End at: 2019-01-03 11:30:55

Local clock offset: 1.83 ms

Remote clock offset: 1.1 ms

Below is generated by plot.py at 2019-01-03 12:42:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 522.76 Mbit/s

95th percentile per-packet one-way delay: 3.817 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 162.93 Mbit/s

95th percentile per-packet one-way delay: 2.033 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 428.40 Mbit/s

95th percentile per-packet one-way delay: 3.801 ms

Loss rate: 0.05%

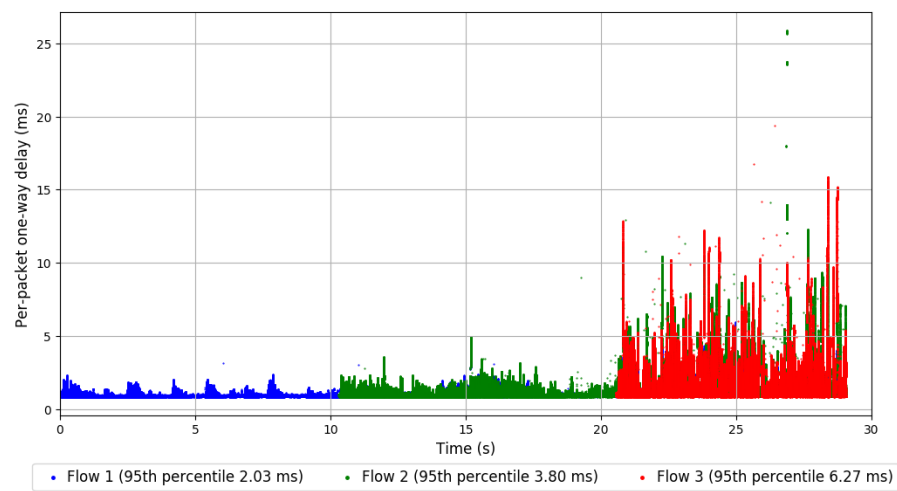
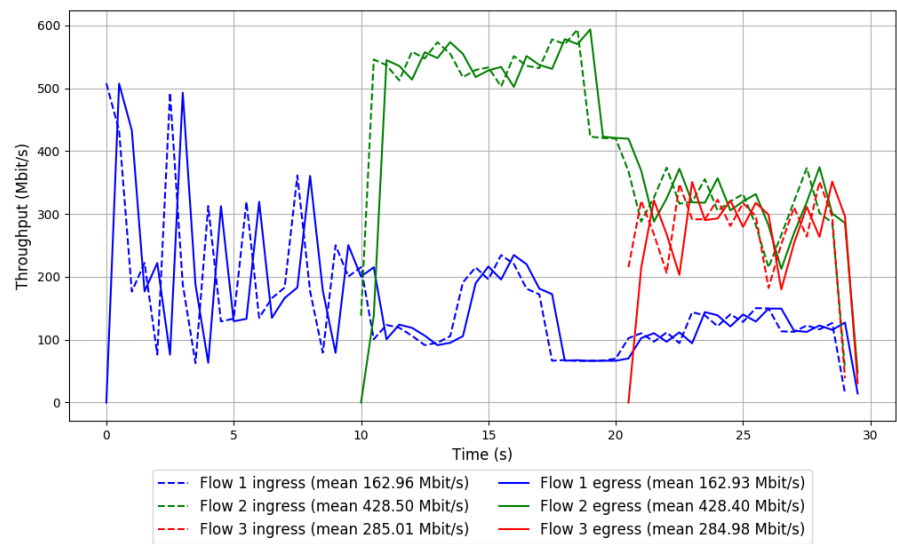
-- Flow 3:

Average throughput: 284.98 Mbit/s

95th percentile per-packet one-way delay: 6.274 ms

Loss rate: 0.16%

Run 5: Report of Indigo-MusesT — Data Link

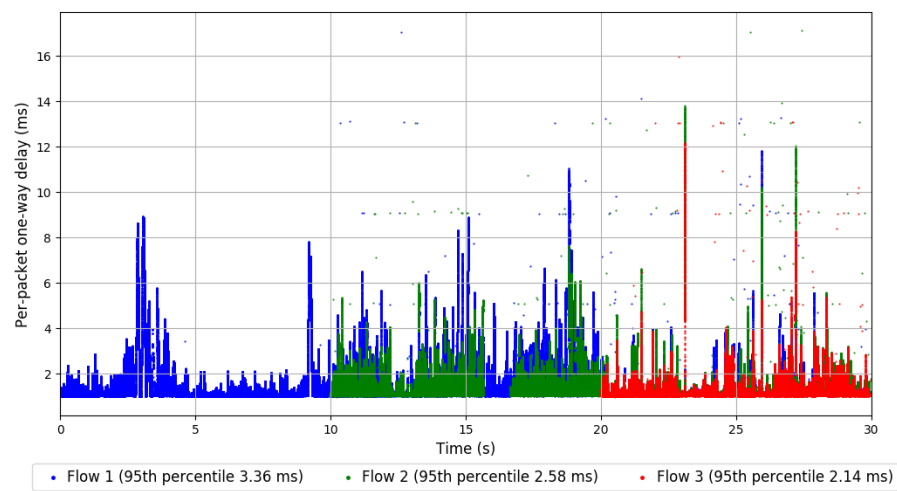
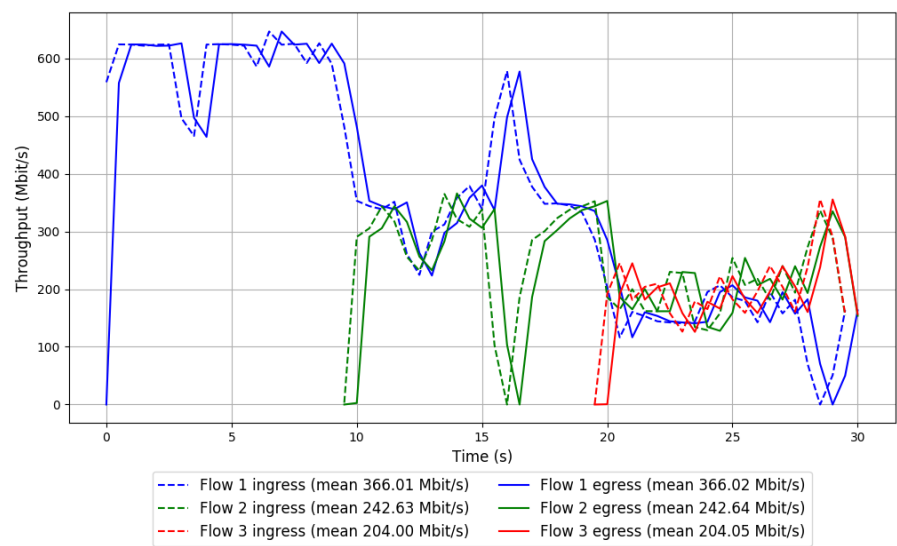


Run 1: Statistics of LEDBAT

Start at: 2019-01-03 09:56:09
End at: 2019-01-03 09:56:39
Local clock offset: 0.043 ms
Remote clock offset: -0.966 ms

Below is generated by plot.py at 2019-01-03 12:42:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 595.70 Mbit/s
95th percentile per-packet one-way delay: 2.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 366.02 Mbit/s
95th percentile per-packet one-way delay: 3.359 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 242.64 Mbit/s
95th percentile per-packet one-way delay: 2.577 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 204.05 Mbit/s
95th percentile per-packet one-way delay: 2.140 ms
Loss rate: 0.01%

Run 1: Report of LEDBAT — Data Link

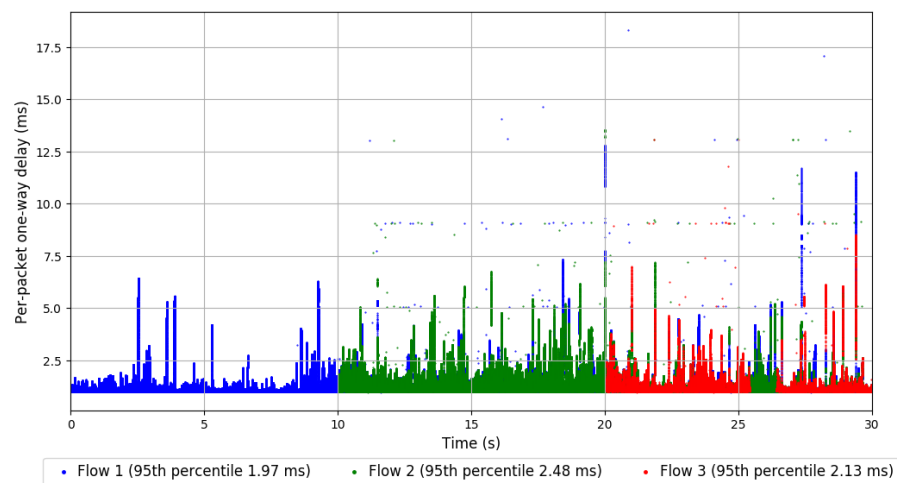
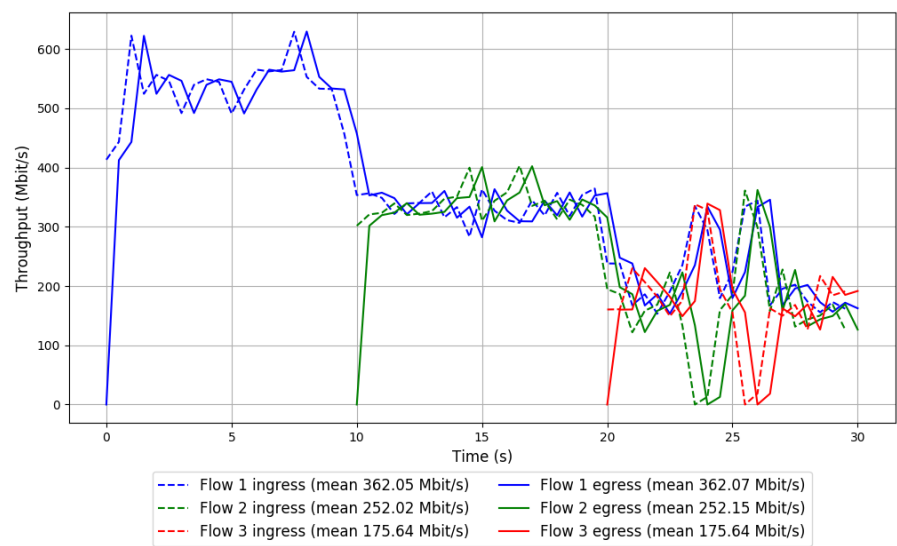


Run 2: Statistics of LEDBAT

Start at: 2019-01-03 10:23:51
End at: 2019-01-03 10:24:21
Local clock offset: 0.059 ms
Remote clock offset: -0.481 ms

Below is generated by plot.py at 2019-01-03 12:42:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 588.24 Mbit/s
95th percentile per-packet one-way delay: 2.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 362.07 Mbit/s
95th percentile per-packet one-way delay: 1.972 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 252.15 Mbit/s
95th percentile per-packet one-way delay: 2.479 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 175.64 Mbit/s
95th percentile per-packet one-way delay: 2.126 ms
Loss rate: 0.02%

Run 2: Report of LEDBAT — Data Link

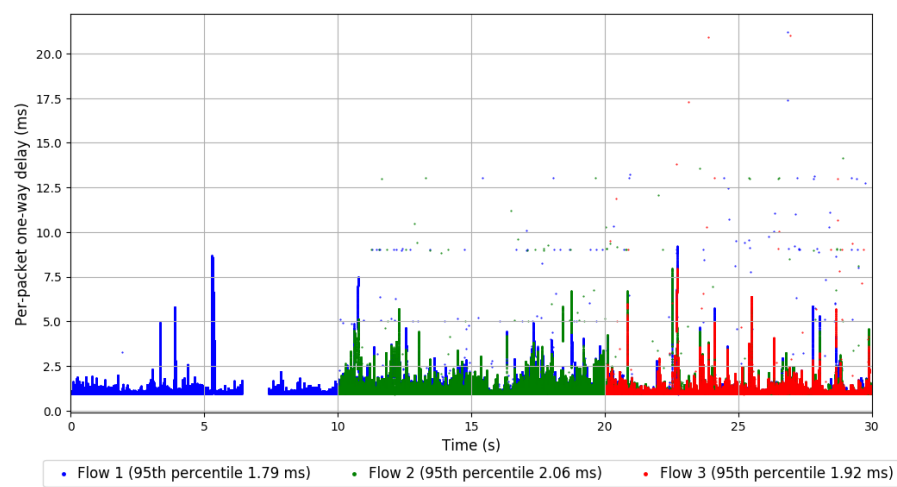
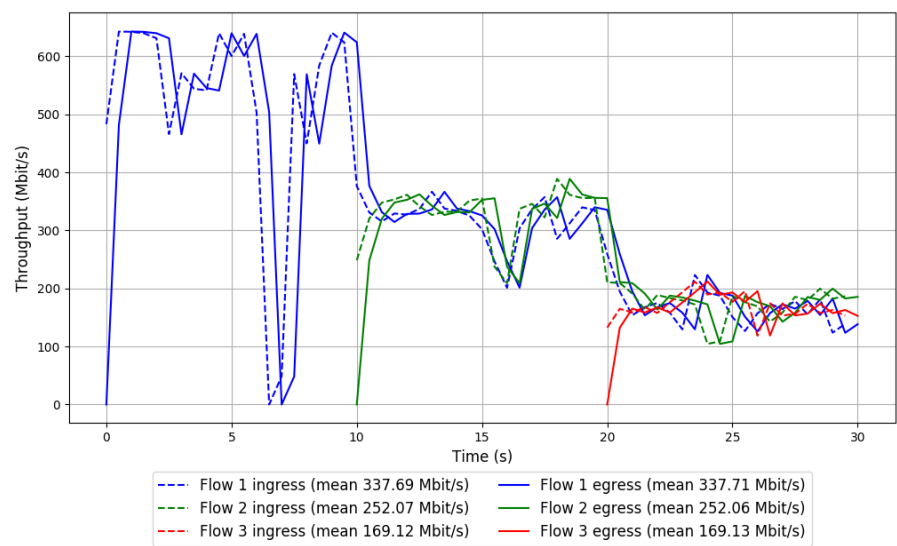


Run 3: Statistics of LEDBAT

Start at: 2019-01-03 10:51:36
End at: 2019-01-03 10:52:06
Local clock offset: 0.177 ms
Remote clock offset: -0.294 ms

Below is generated by plot.py at 2019-01-03 12:43:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 561.70 Mbit/s
95th percentile per-packet one-way delay: 1.895 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 337.71 Mbit/s
95th percentile per-packet one-way delay: 1.791 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 252.06 Mbit/s
95th percentile per-packet one-way delay: 2.062 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 169.13 Mbit/s
95th percentile per-packet one-way delay: 1.916 ms
Loss rate: 0.02%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-01-03 11:19:02

End at: 2019-01-03 11:19:32

Local clock offset: 0.178 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-01-03 12:45:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 567.48 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 353.11 Mbit/s

95th percentile per-packet one-way delay: 2.274 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 246.36 Mbit/s

95th percentile per-packet one-way delay: 2.544 ms

Loss rate: 0.00%

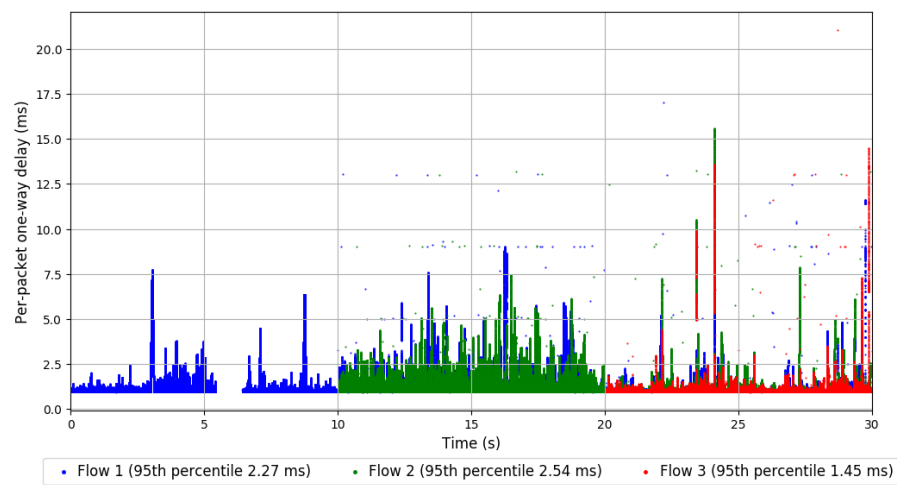
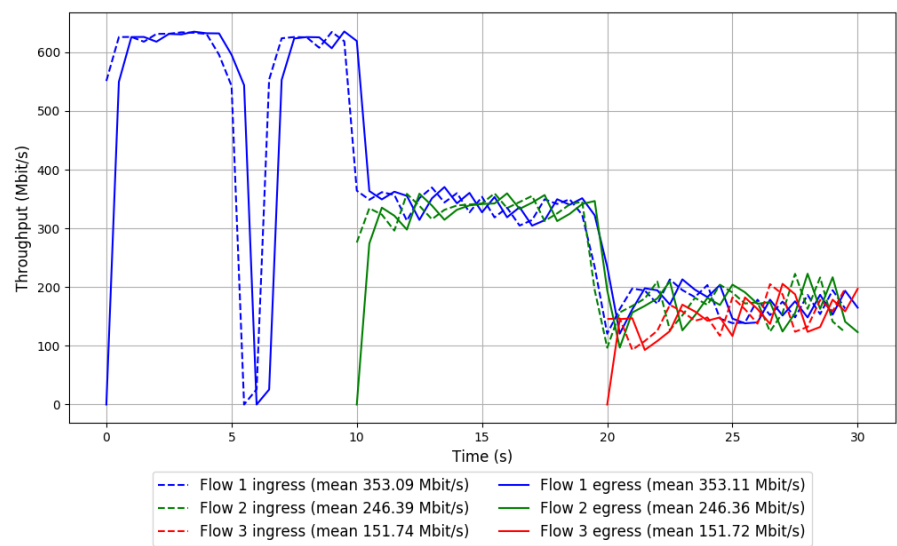
-- Flow 3:

Average throughput: 151.72 Mbit/s

95th percentile per-packet one-way delay: 1.451 ms

Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-03 11:46:37

End at: 2019-01-03 11:47:07

Local clock offset: 3.719 ms

Remote clock offset: 3.33 ms

Below is generated by plot.py at 2019-01-03 12:46:08

Datalink statistics

-- Total of 3 flows:

Average throughput: 593.43 Mbit/s

95th percentile per-packet one-way delay: 1.884 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 359.49 Mbit/s

95th percentile per-packet one-way delay: 1.847 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 253.13 Mbit/s

95th percentile per-packet one-way delay: 1.983 ms

Loss rate: 0.01%

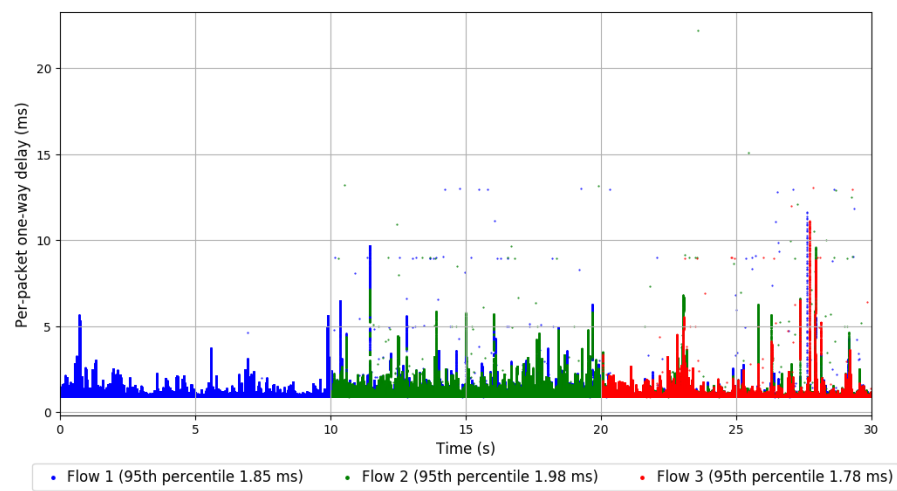
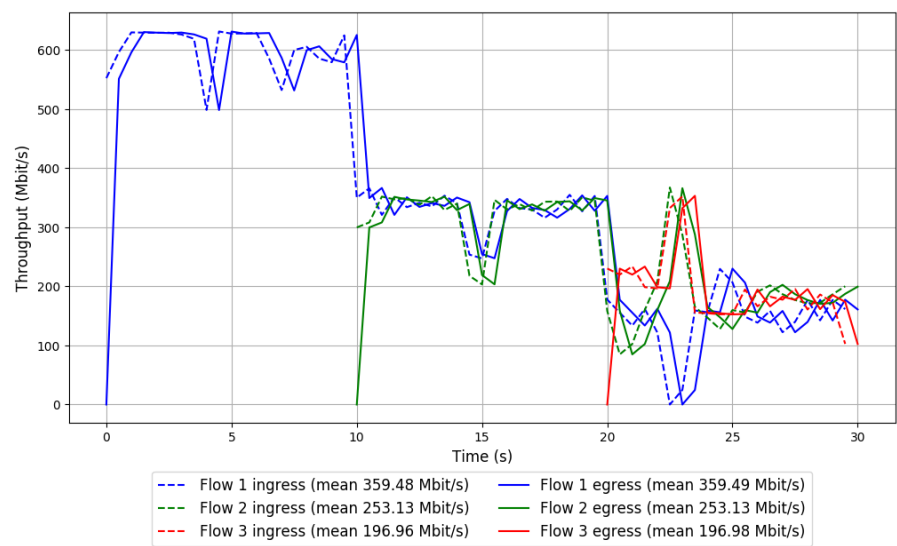
-- Flow 3:

Average throughput: 196.98 Mbit/s

95th percentile per-packet one-way delay: 1.783 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link

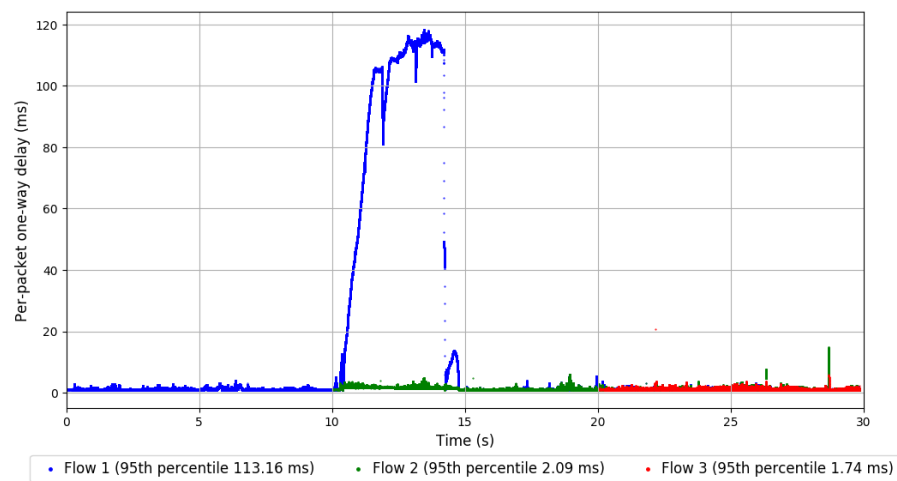
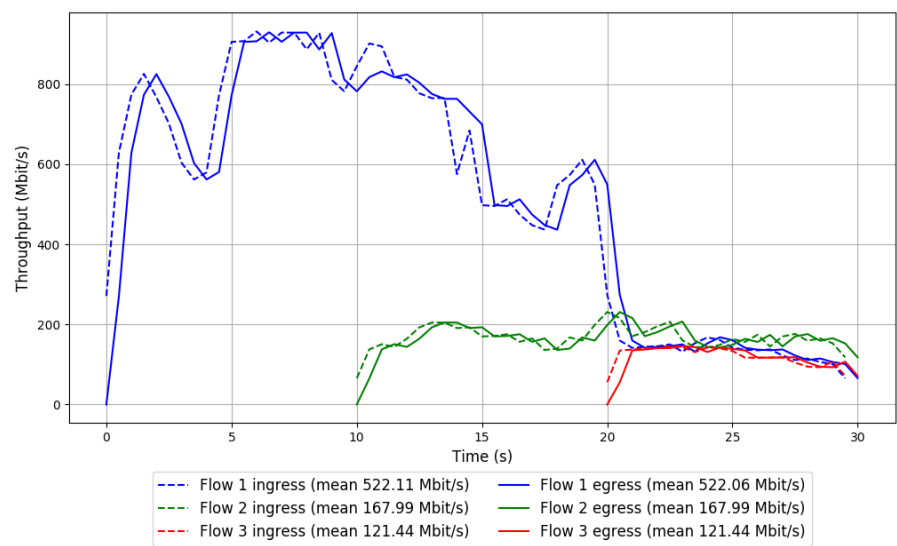


Run 1: Statistics of PCC-Allegro

Start at: 2019-01-03 09:38:24
End at: 2019-01-03 09:38:54
Local clock offset: 0.986 ms
Remote clock offset: -1.955 ms

Below is generated by plot.py at 2019-01-03 12:47:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 673.50 Mbit/s
95th percentile per-packet one-way delay: 111.627 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 522.06 Mbit/s
95th percentile per-packet one-way delay: 113.164 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 167.99 Mbit/s
95th percentile per-packet one-way delay: 2.093 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 121.44 Mbit/s
95th percentile per-packet one-way delay: 1.741 ms
Loss rate: 0.01%

Run 1: Report of PCC-Allegro — Data Link

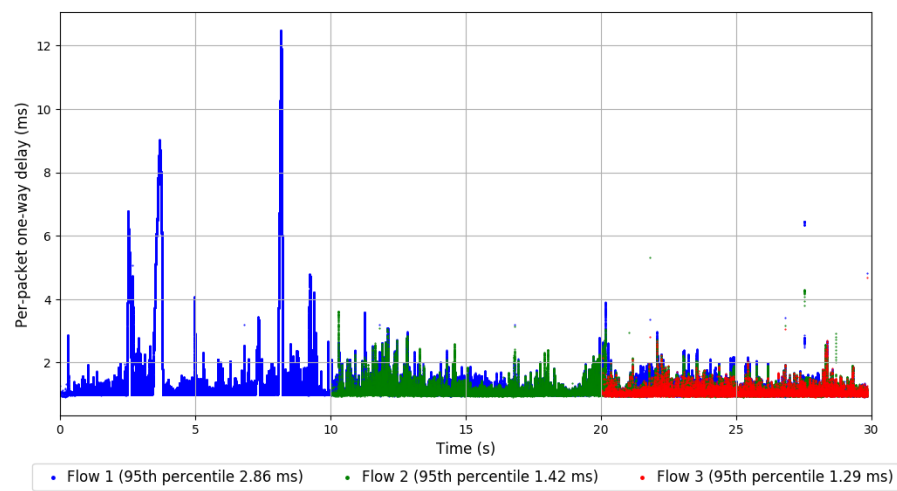
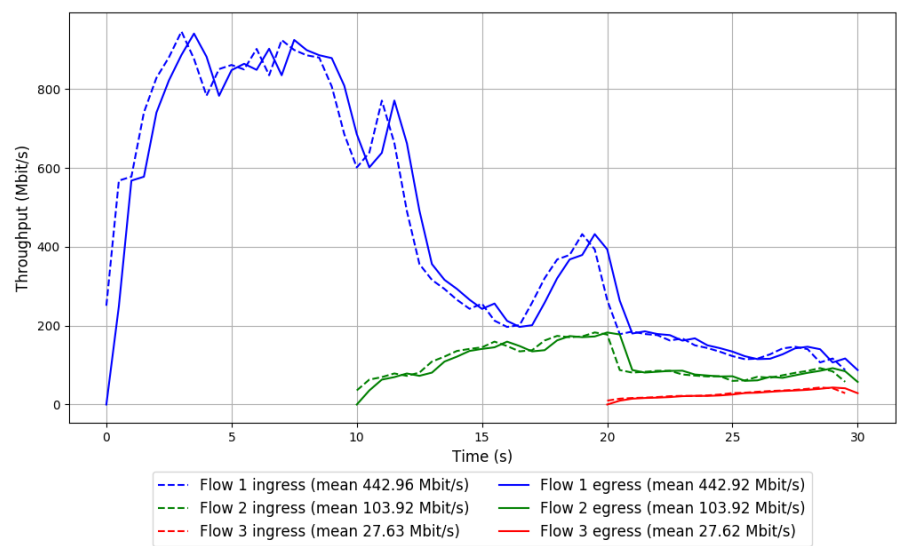


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-03 10:06:19
End at: 2019-01-03 10:06:49
Local clock offset: 0.065 ms
Remote clock offset: -0.704 ms

Below is generated by plot.py at 2019-01-03 12:47:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 521.06 Mbit/s
95th percentile per-packet one-way delay: 2.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 442.92 Mbit/s
95th percentile per-packet one-way delay: 2.864 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 103.92 Mbit/s
95th percentile per-packet one-way delay: 1.423 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 27.62 Mbit/s
95th percentile per-packet one-way delay: 1.286 ms
Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link

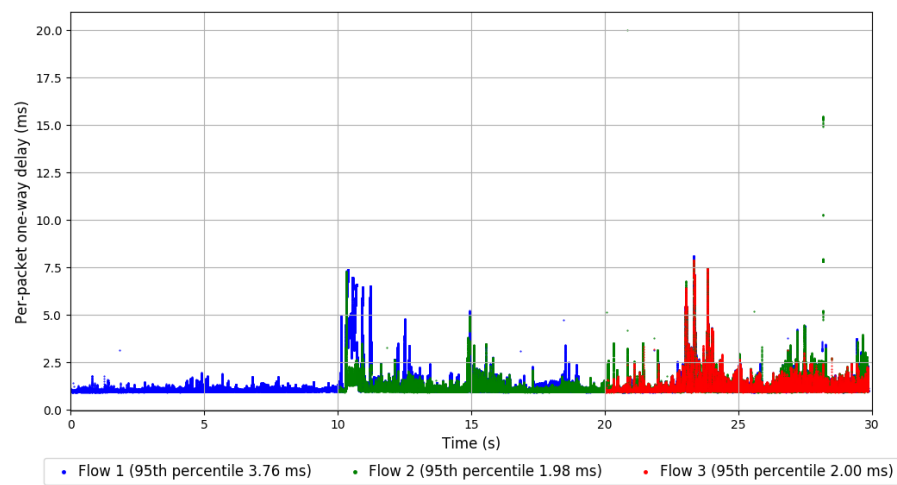
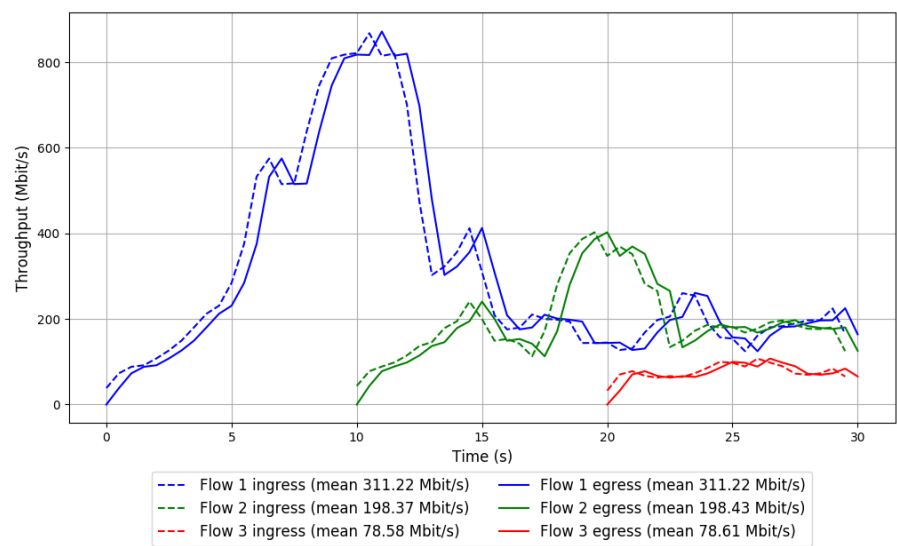


Run 3: Statistics of PCC-Allegro

Start at: 2019-01-03 10:33:56
End at: 2019-01-03 10:34:26
Local clock offset: 0.155 ms
Remote clock offset: -0.364 ms

Below is generated by plot.py at 2019-01-03 12:47:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 468.92 Mbit/s
95th percentile per-packet one-way delay: 2.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 311.22 Mbit/s
95th percentile per-packet one-way delay: 3.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 198.43 Mbit/s
95th percentile per-packet one-way delay: 1.983 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 78.61 Mbit/s
95th percentile per-packet one-way delay: 1.995 ms
Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link

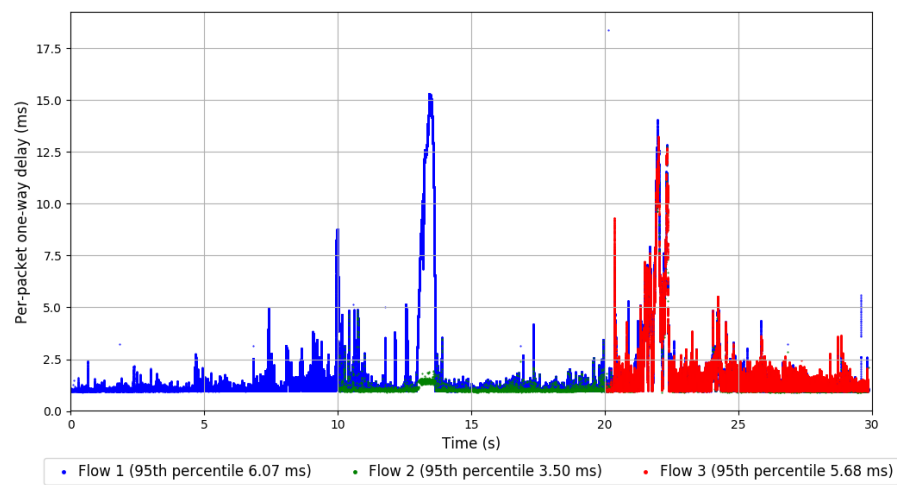
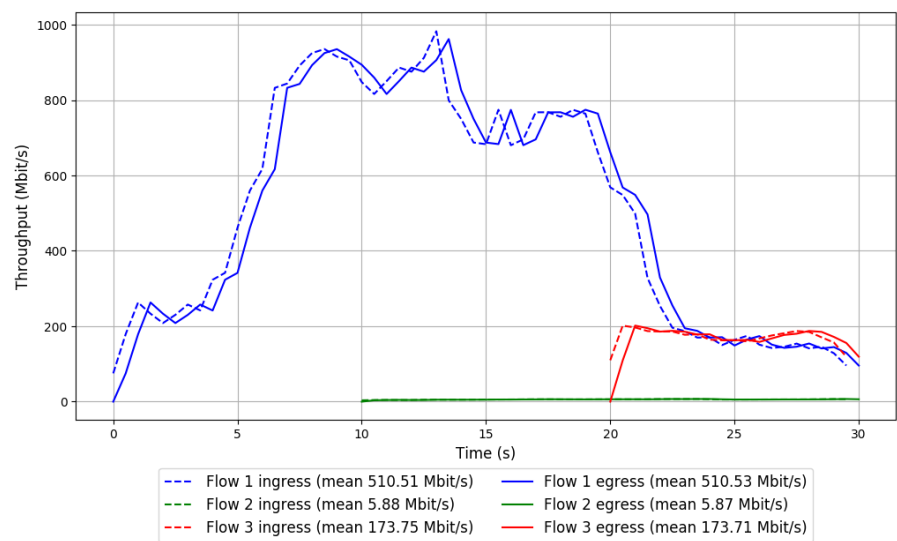


Run 4: Statistics of PCC-Allegro

Start at: 2019-01-03 11:01:28
End at: 2019-01-03 11:01:58
Local clock offset: 0.146 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2019-01-03 12:48:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 571.61 Mbit/s
95th percentile per-packet one-way delay: 5.956 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 510.53 Mbit/s
95th percentile per-packet one-way delay: 6.070 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 3.500 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 173.71 Mbit/s
95th percentile per-packet one-way delay: 5.682 ms
Loss rate: 0.06%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-03 11:28:57

End at: 2019-01-03 11:29:27

Local clock offset: 1.56 ms

Remote clock offset: 0.585 ms

Below is generated by plot.py at 2019-01-03 12:48:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 580.07 Mbit/s

95th percentile per-packet one-way delay: 6.434 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 543.87 Mbit/s

95th percentile per-packet one-way delay: 7.061 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 37.19 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.01%

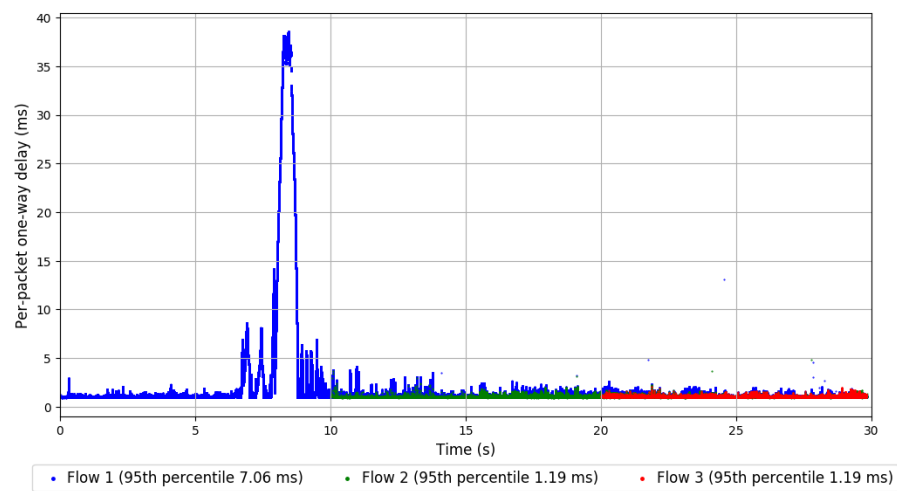
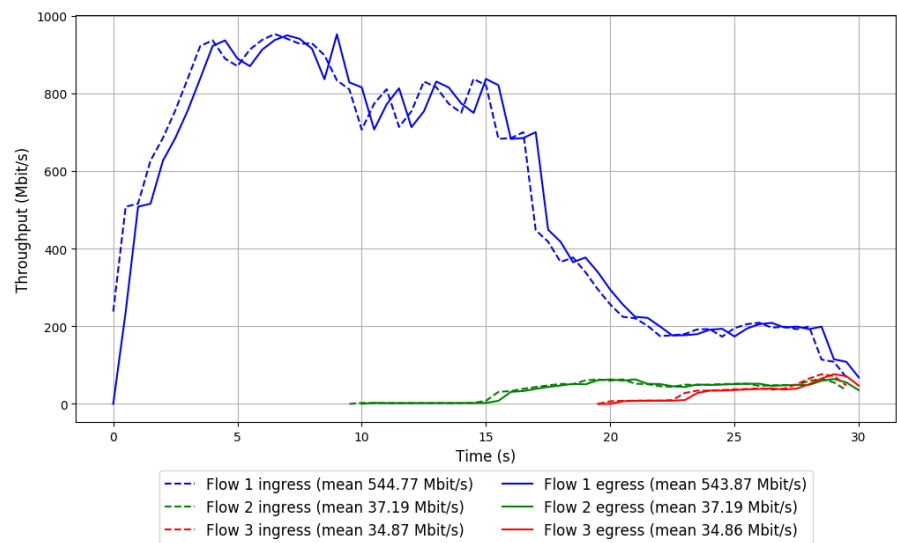
-- Flow 3:

Average throughput: 34.86 Mbit/s

95th percentile per-packet one-way delay: 1.191 ms

Loss rate: 0.08%

Run 5: Report of PCC-Allegro — Data Link

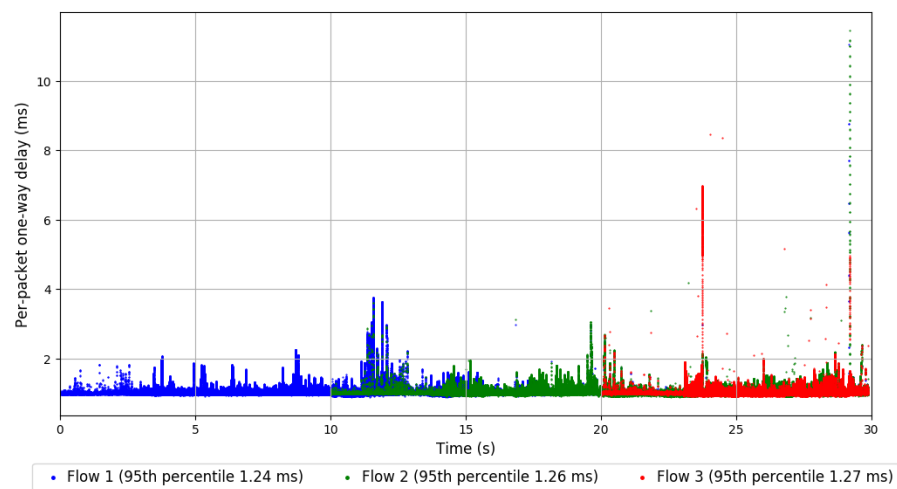
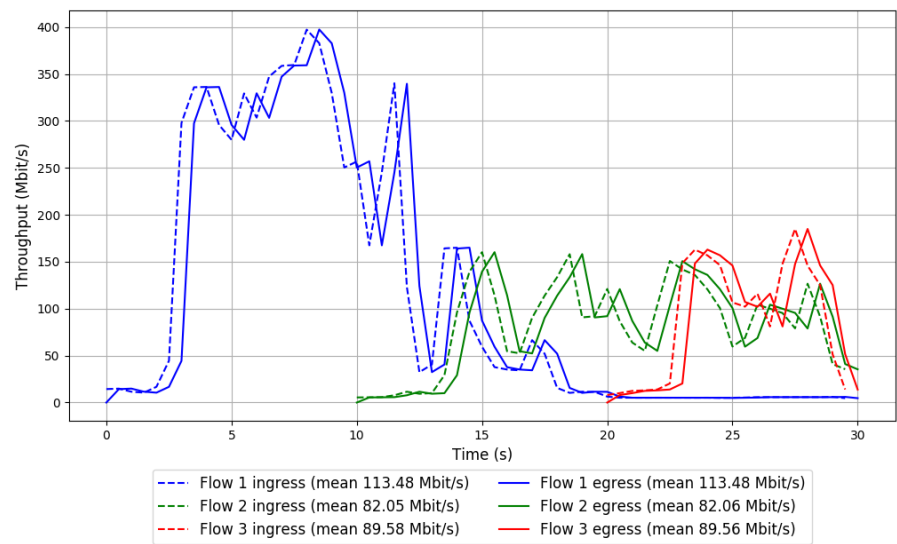


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-03 09:59:11
End at: 2019-01-03 09:59:41
Local clock offset: 0.06 ms
Remote clock offset: -0.807 ms

# Below is generated by plot.py at 2019-01-03 12:48:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 197.61 Mbit/s
95th percentile per-packet one-way delay: 1.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 113.48 Mbit/s
95th percentile per-packet one-way delay: 1.244 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 82.06 Mbit/s
95th percentile per-packet one-way delay: 1.262 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.56 Mbit/s
95th percentile per-packet one-way delay: 1.267 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link

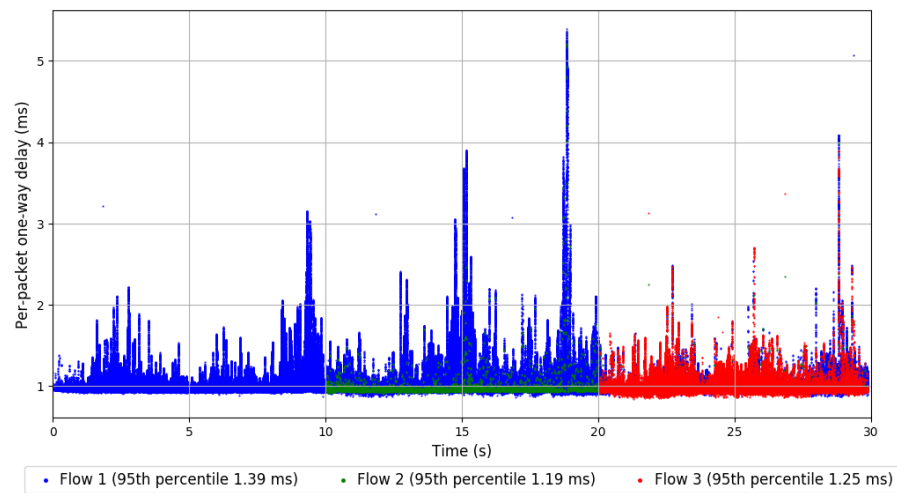
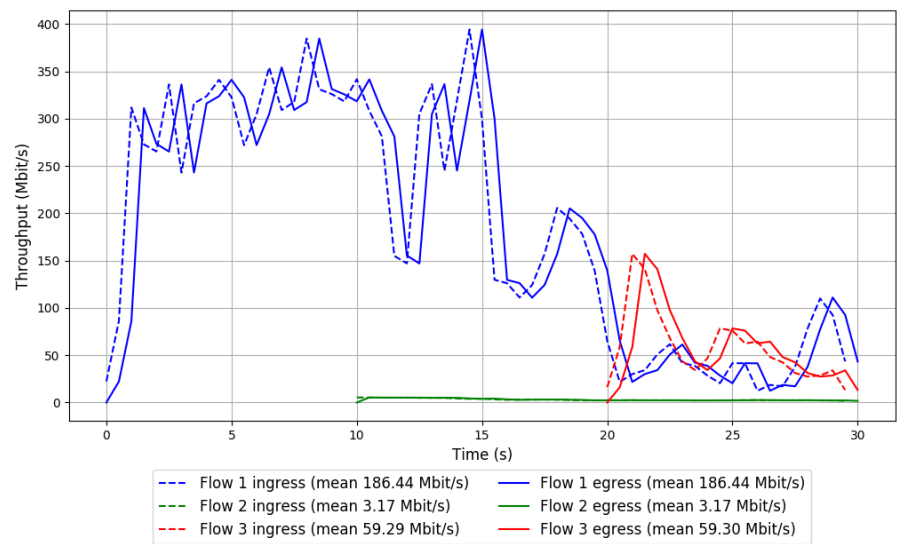


Run 2: Statistics of PCC-Expr

Start at: 2019-01-03 10:26:46
End at: 2019-01-03 10:27:16
Local clock offset: 0.086 ms
Remote clock offset: -0.368 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 208.11 Mbit/s
95th percentile per-packet one-way delay: 1.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.44 Mbit/s
95th percentile per-packet one-way delay: 1.388 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.17 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 59.30 Mbit/s
95th percentile per-packet one-way delay: 1.251 ms
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link

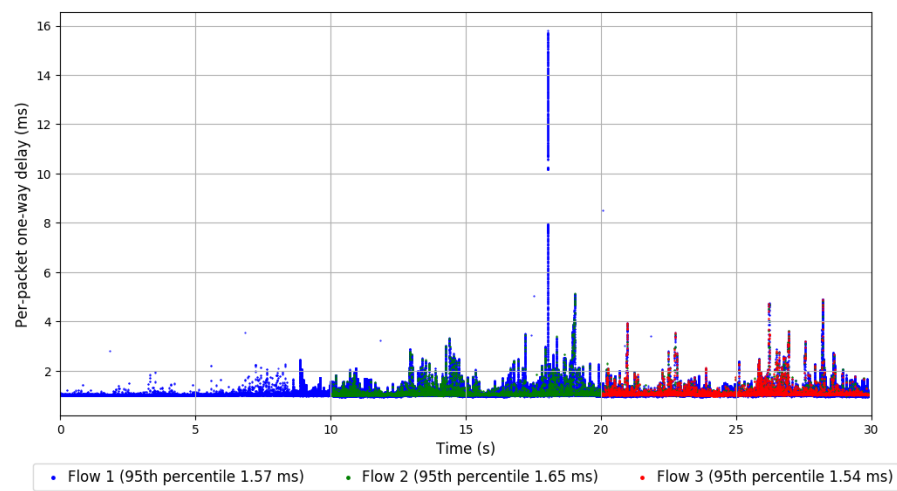
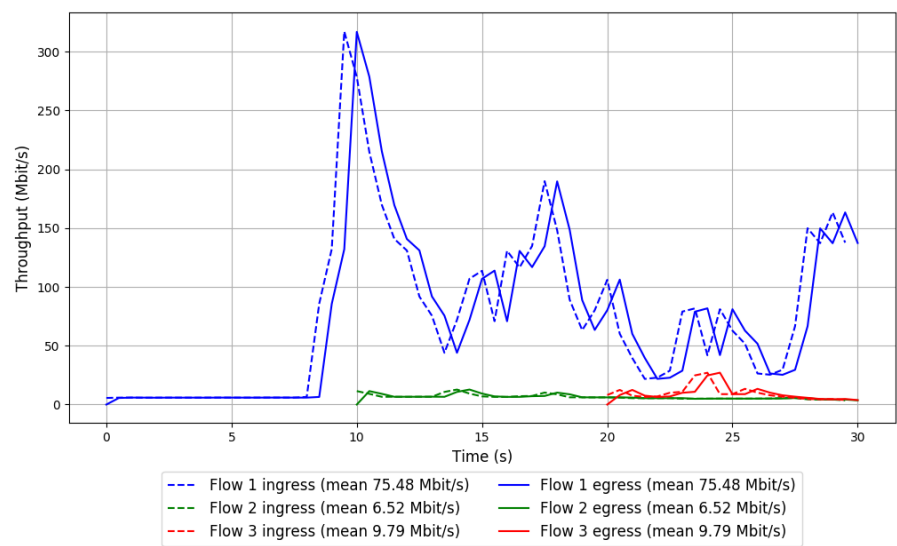


Run 3: Statistics of PCC-Expr

Start at: 2019-01-03 10:54:29
End at: 2019-01-03 10:54:59
Local clock offset: 0.167 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.05 Mbit/s
95th percentile per-packet one-way delay: 1.571 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 75.48 Mbit/s
95th percentile per-packet one-way delay: 1.568 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 6.52 Mbit/s
95th percentile per-packet one-way delay: 1.652 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 9.79 Mbit/s
95th percentile per-packet one-way delay: 1.540 ms
Loss rate: 0.01%

Run 3: Report of PCC-Expr — Data Link

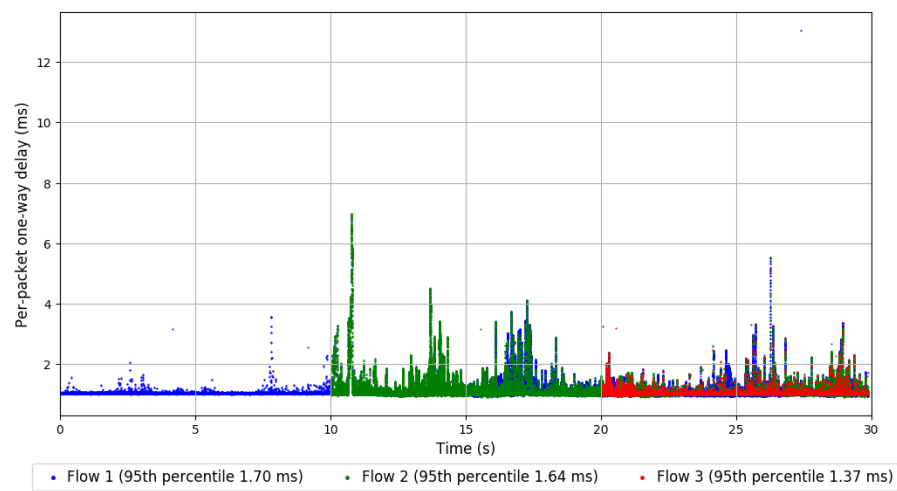
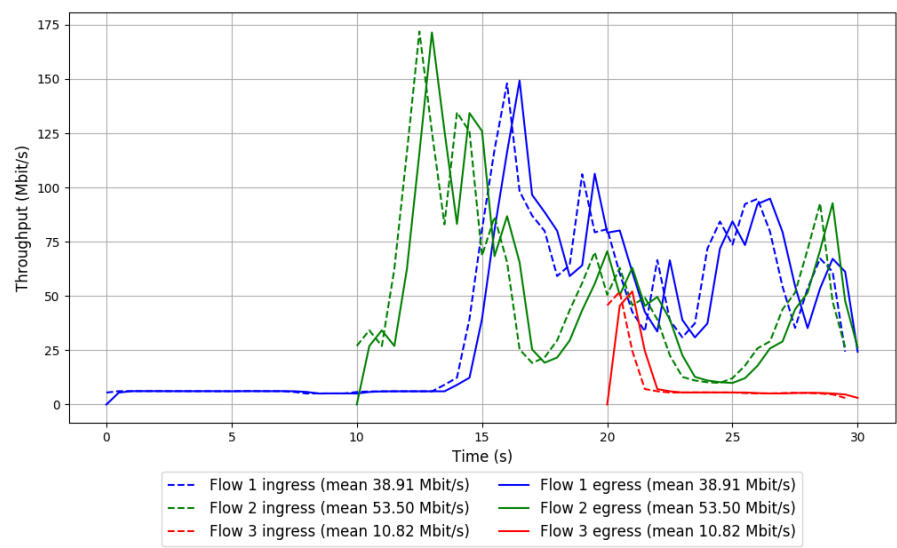


Run 4: Statistics of PCC-Expr

Start at: 2019-01-03 11:21:54
End at: 2019-01-03 11:22:24
Local clock offset: 0.176 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.06 Mbit/s
95th percentile per-packet one-way delay: 1.655 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 1.700 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 1.639 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.82 Mbit/s
95th percentile per-packet one-way delay: 1.372 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-01-03 11:49:30

End at: 2019-01-03 11:50:00

Local clock offset: 3.938 ms

Remote clock offset: 3.565 ms

Below is generated by plot.py at 2019-01-03 12:50:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 152.28 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 131.95 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.47 Mbit/s

95th percentile per-packet one-way delay: 1.008 ms

Loss rate: 0.01%

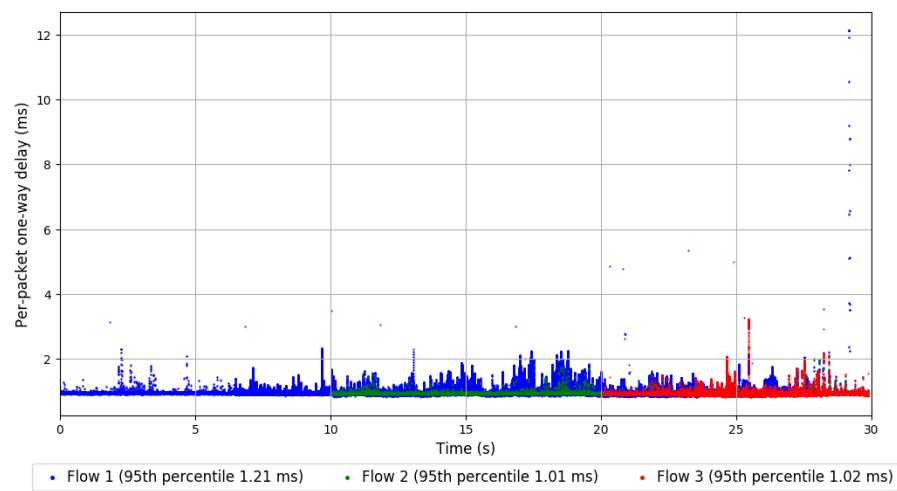
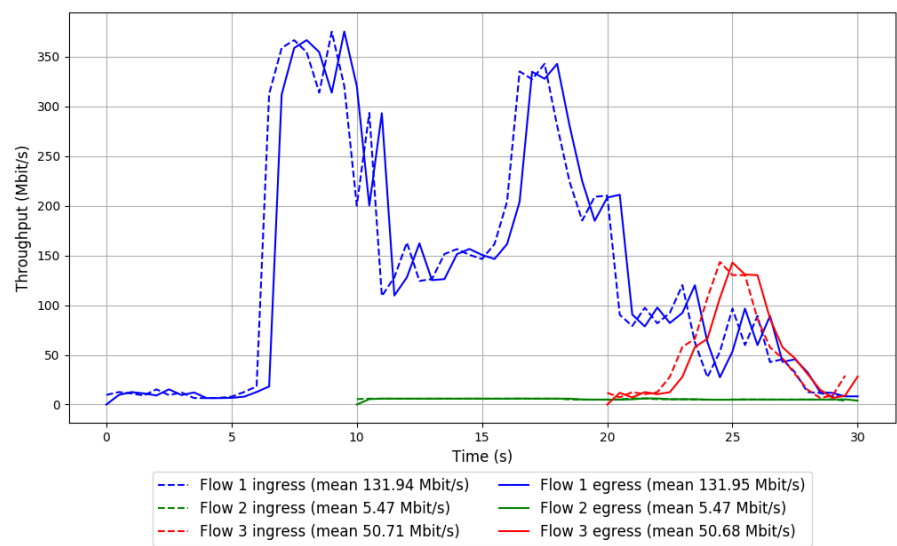
-- Flow 3:

Average throughput: 50.68 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.10%

Run 5: Report of PCC-Expr — Data Link

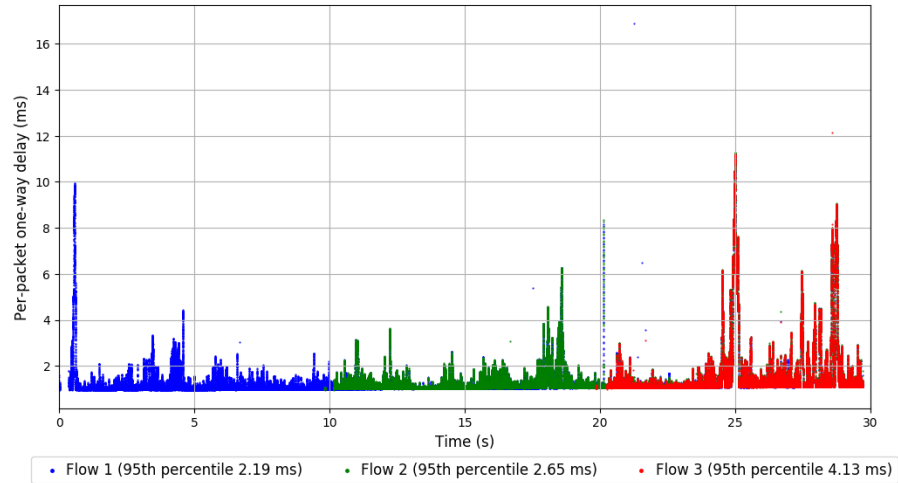
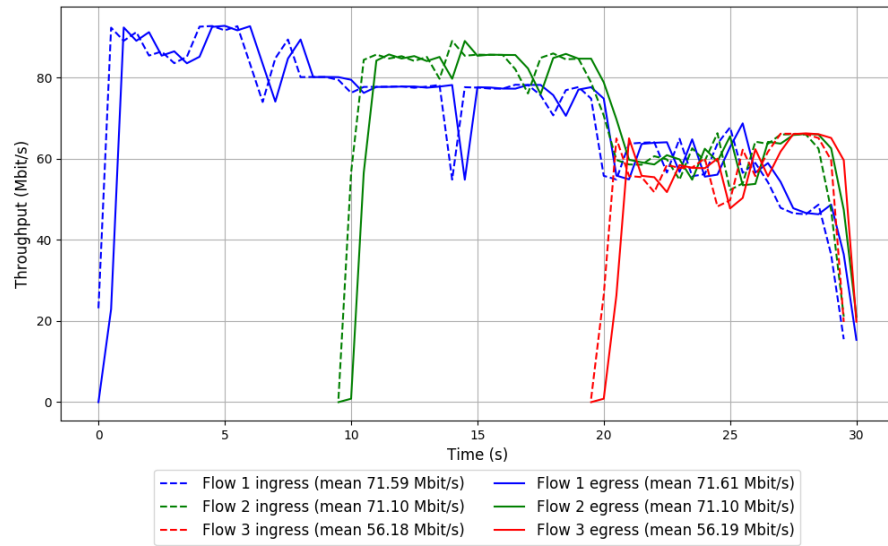


Run 1: Statistics of QUIC Cubic

Start at: 2019-01-03 09:44:22
End at: 2019-01-03 09:44:52
Local clock offset: 0.496 ms
Remote clock offset: -2.528 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 137.92 Mbit/s
95th percentile per-packet one-way delay: 2.537 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 71.61 Mbit/s
95th percentile per-packet one-way delay: 2.192 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.10 Mbit/s
95th percentile per-packet one-way delay: 2.649 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.19 Mbit/s
95th percentile per-packet one-way delay: 4.129 ms
Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link

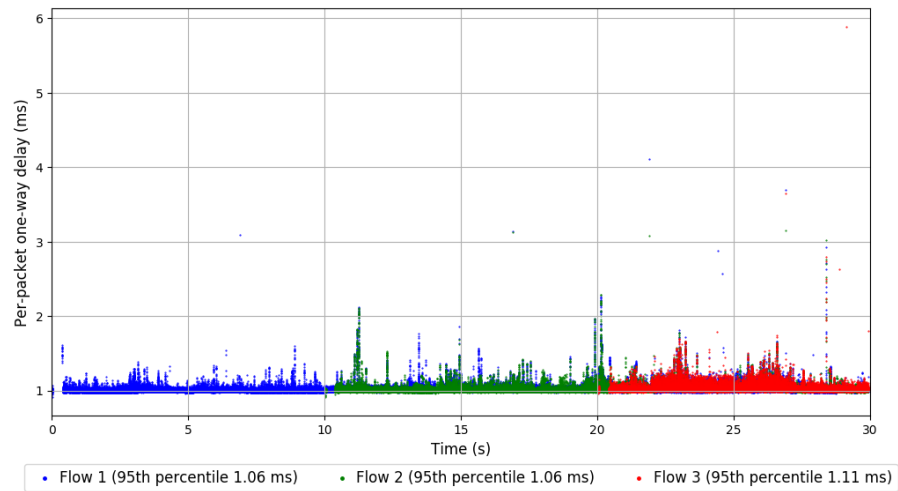
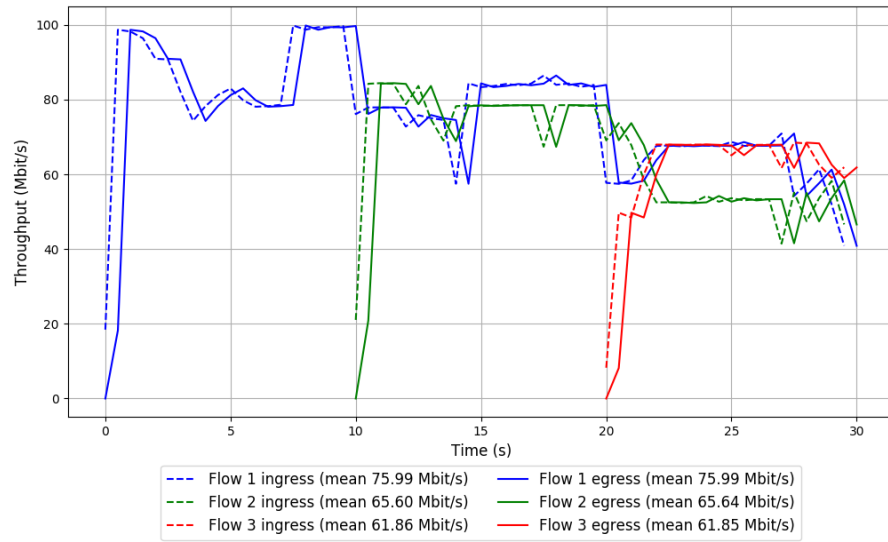


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-03 10:12:08
End at: 2019-01-03 10:12:38
Local clock offset: 0.062 ms
Remote clock offset: -0.672 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 140.10 Mbit/s
95th percentile per-packet one-way delay: 1.068 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 65.64 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.85 Mbit/s
95th percentile per-packet one-way delay: 1.106 ms
Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link

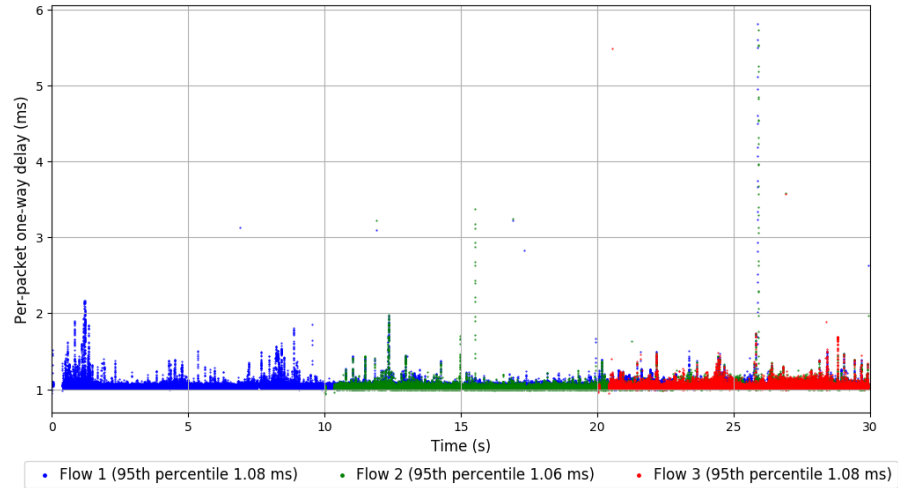
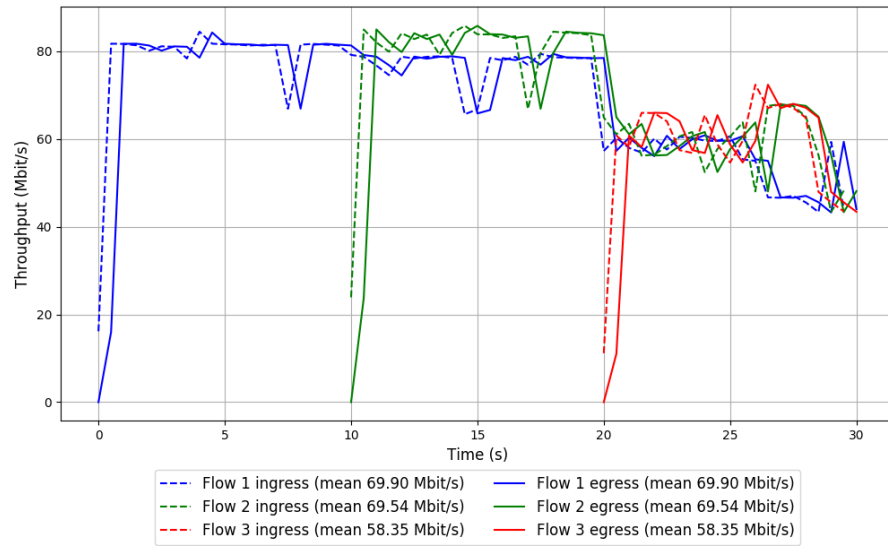


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-03 10:39:53
End at: 2019-01-03 10:40:23
Local clock offset: 0.162 ms
Remote clock offset: -0.332 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 135.48 Mbit/s
95th percentile per-packet one-way delay: 1.075 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 69.90 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 69.54 Mbit/s
95th percentile per-packet one-way delay: 1.063 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 58.35 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link

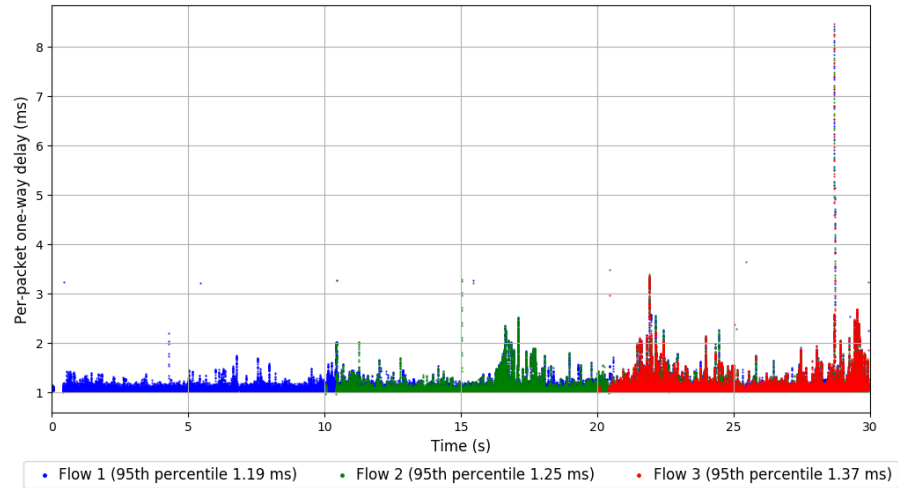
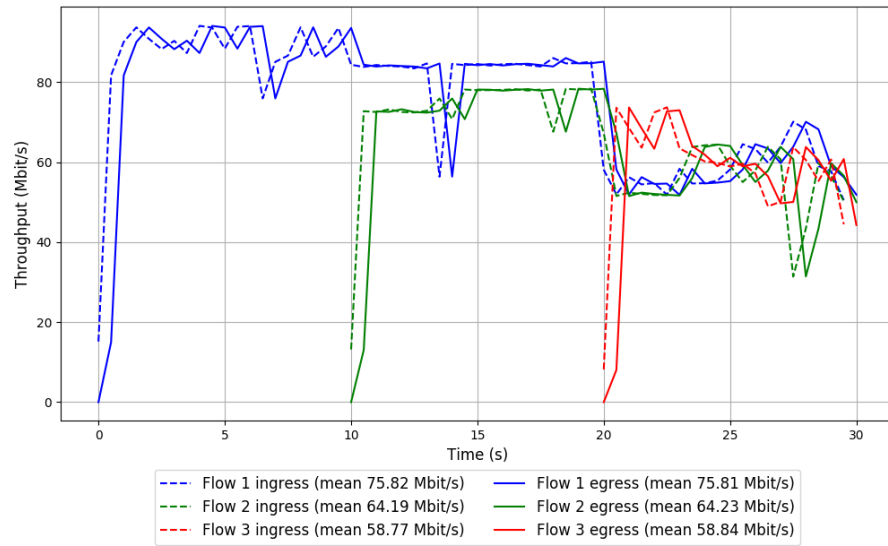


Run 4: Statistics of QUIC Cubic

Start at: 2019-01-03 11:07:21
End at: 2019-01-03 11:07:51
Local clock offset: 0.157 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 138.01 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 1.194 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.23 Mbit/s
95th percentile per-packet one-way delay: 1.248 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 58.84 Mbit/s
95th percentile per-packet one-way delay: 1.370 ms
Loss rate: 0.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-01-03 11:34:50

End at: 2019-01-03 11:35:20

Local clock offset: 2.583 ms

Remote clock offset: 1.961 ms

Below is generated by plot.py at 2019-01-03 12:50:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 136.60 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 73.47 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 69.55 Mbit/s

95th percentile per-packet one-way delay: 1.307 ms

Loss rate: 0.01%

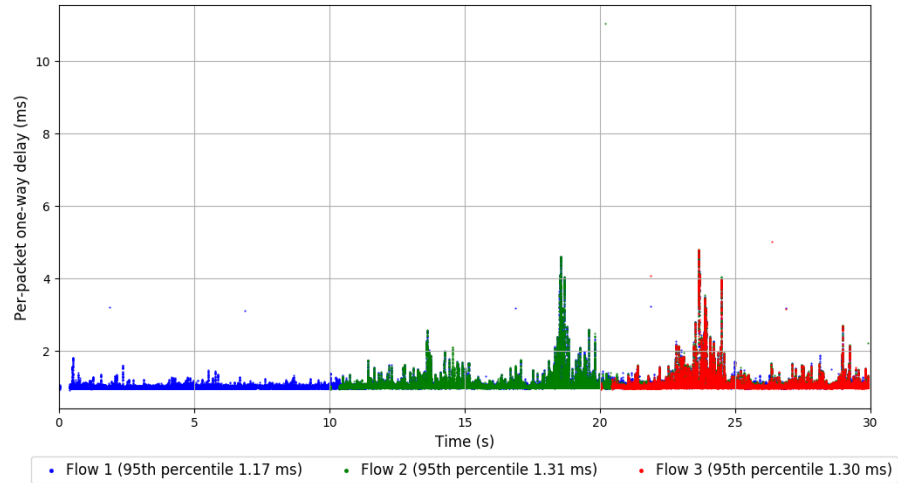
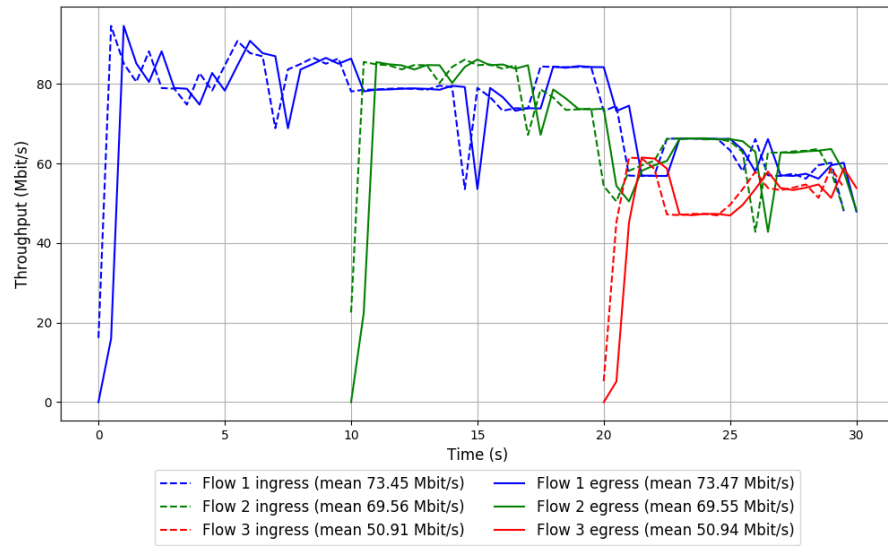
-- Flow 3:

Average throughput: 50.94 Mbit/s

95th percentile per-packet one-way delay: 1.297 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link

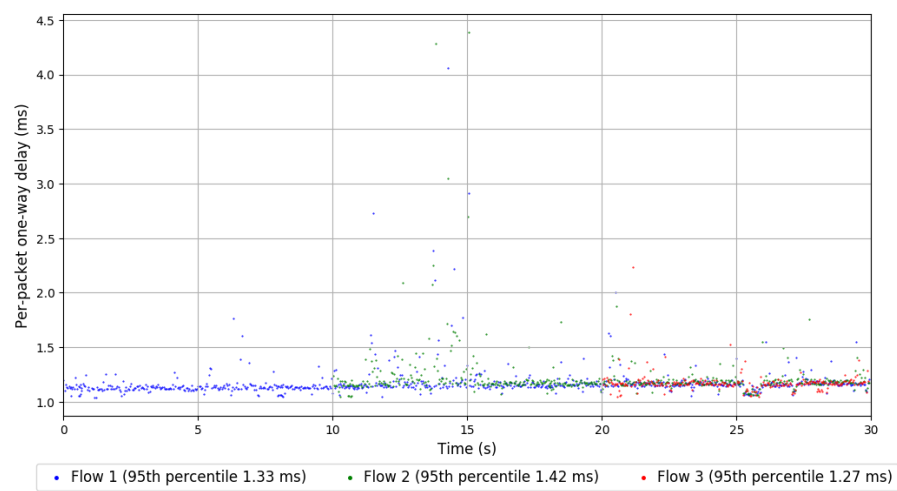
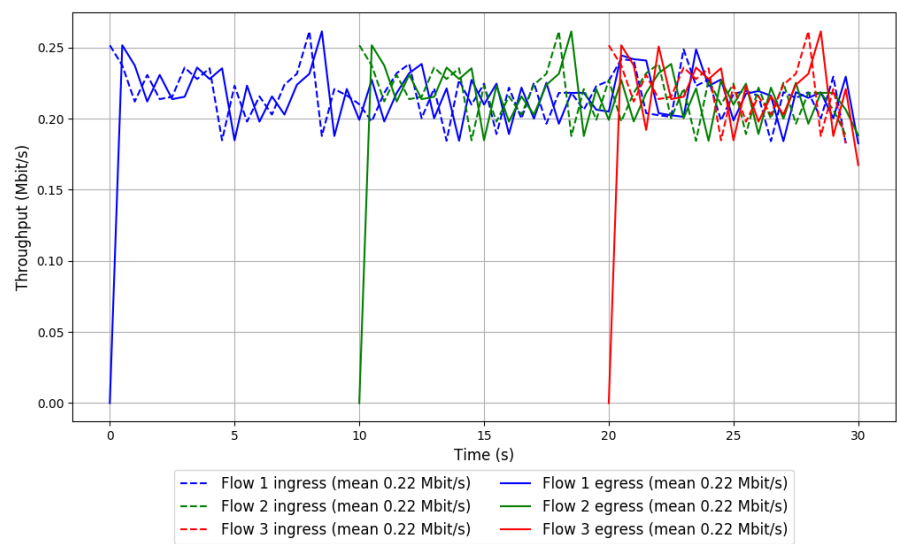


```
Run 1: Statistics of SCReAM

Start at: 2019-01-03 09:53:26
End at: 2019-01-03 09:53:56
Local clock offset: 0.07 ms
Remote clock offset: -1.138 ms

# Below is generated by plot.py at 2019-01-03 12:50:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.366 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.326 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.424 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.35%
```

Run 1: Report of SReAM — Data Link

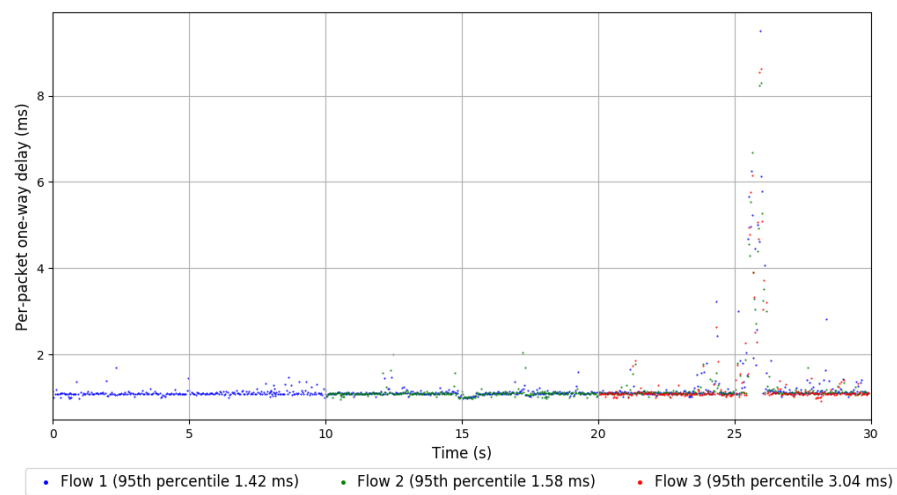
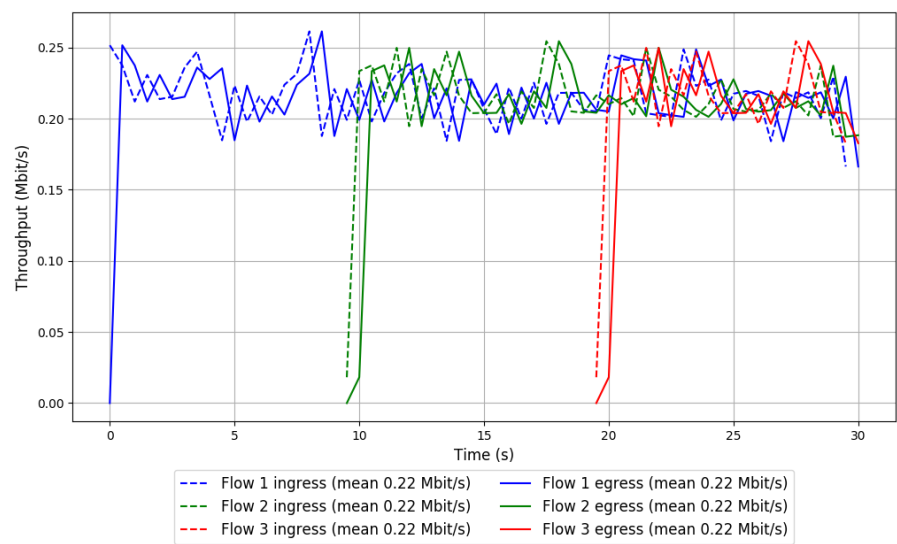


Run 2: Statistics of SReAM

Start at: 2019-01-03 10:21:07
End at: 2019-01-03 10:21:37
Local clock offset: 0.046 ms
Remote clock offset: -0.552 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 1.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.420 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.582 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 3.045 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

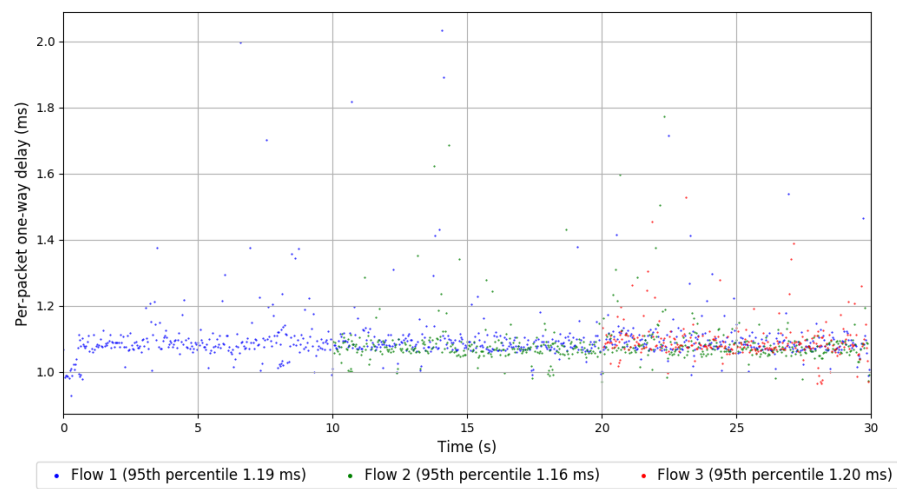
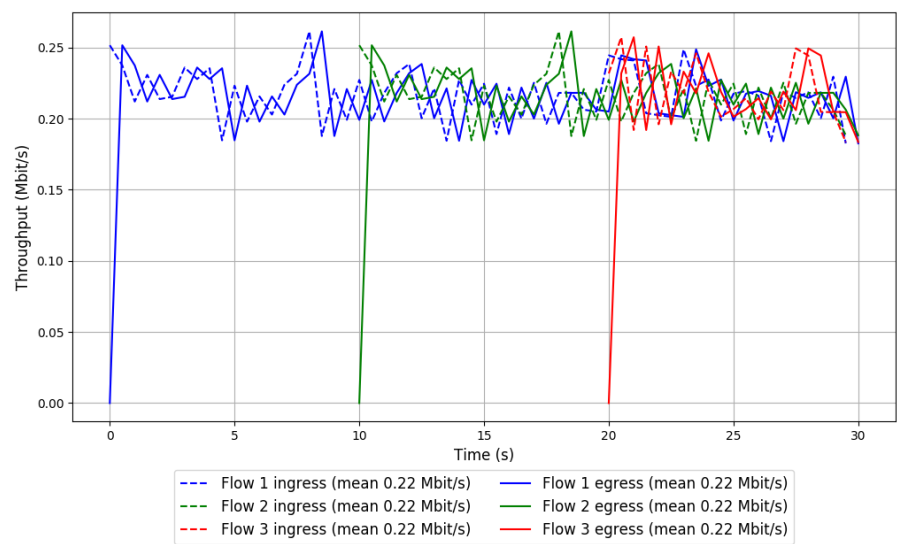


Run 3: Statistics of SReAM

Start at: 2019-01-03 10:48:52
End at: 2019-01-03 10:49:22
Local clock offset: 0.171 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 1.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.197 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2019-01-03 11:16:17

End at: 2019-01-03 11:16:47

Local clock offset: 0.163 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2019-01-03 12:50:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.00%

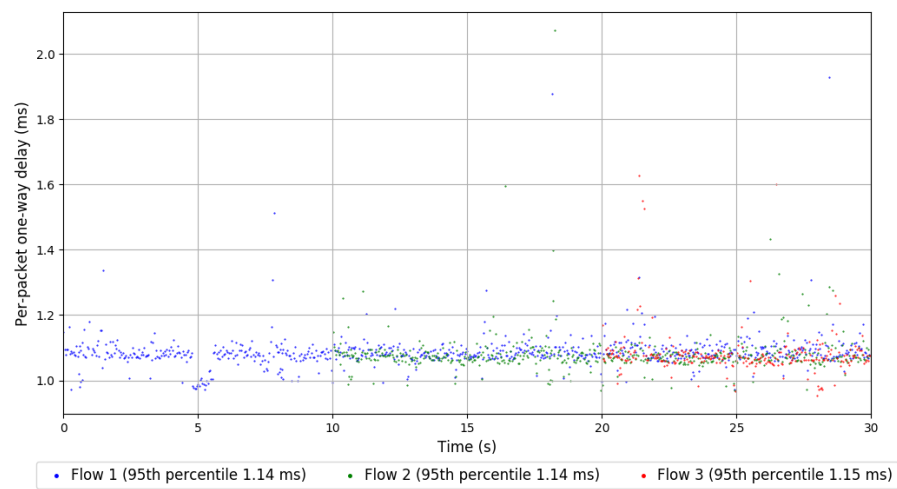
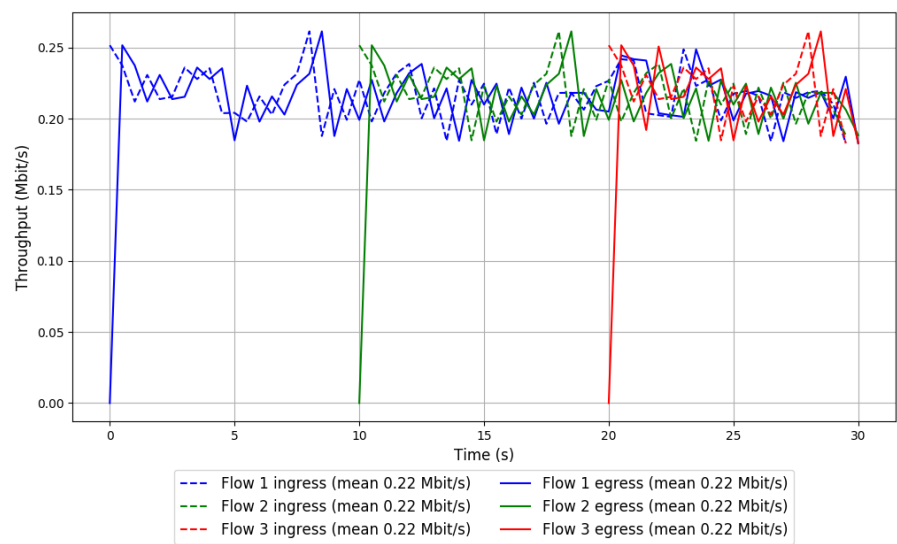
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-01-03 11:43:53

End at: 2019-01-03 11:44:23

Local clock offset: 3.516 ms

Remote clock offset: 3.106 ms

Below is generated by plot.py at 2019-01-03 12:50:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.00%

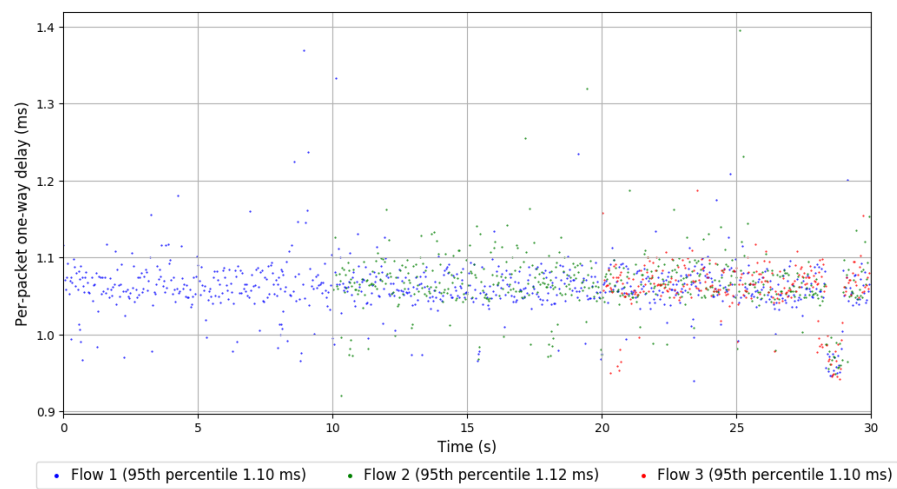
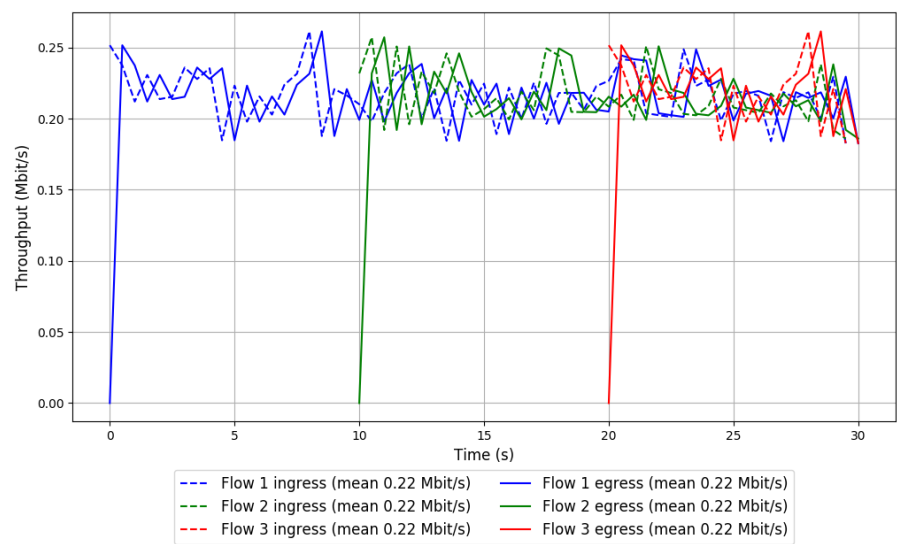
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

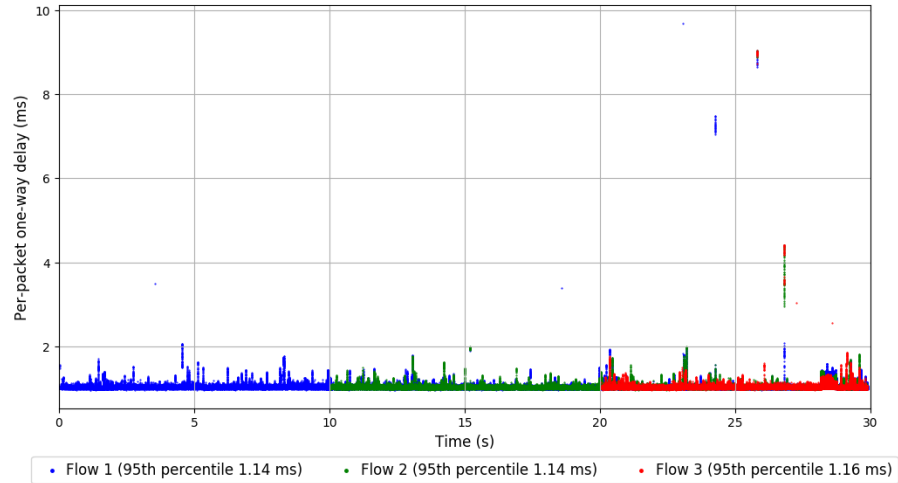
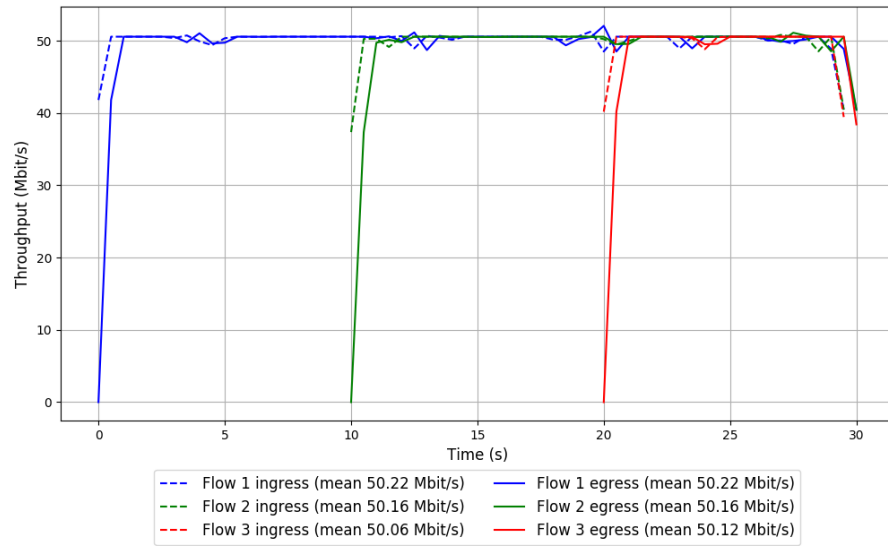


Run 1: Statistics of Sprout

Start at: 2019-01-03 10:01:53
End at: 2019-01-03 10:02:23
Local clock offset: 0.054 ms
Remote clock offset: -0.721 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 100.05 Mbit/s
95th percentile per-packet one-way delay: 1.141 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 1.135 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.10%

Run 1: Report of Sprout — Data Link

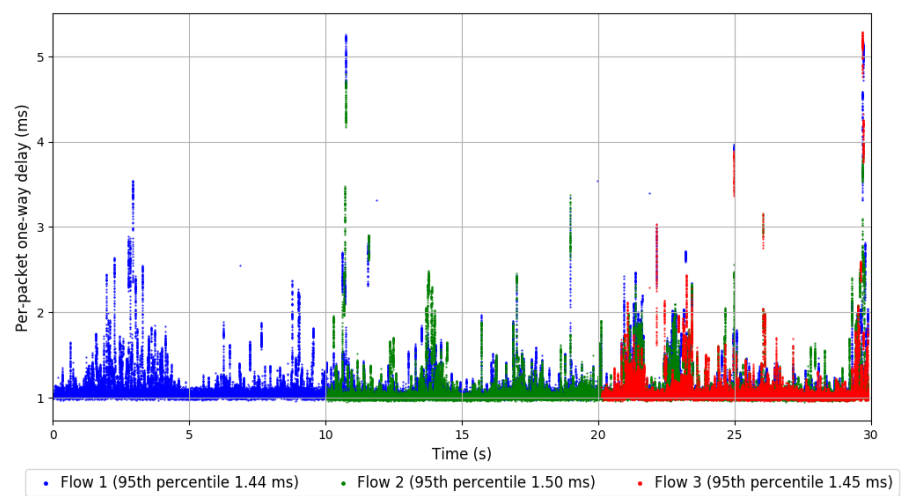
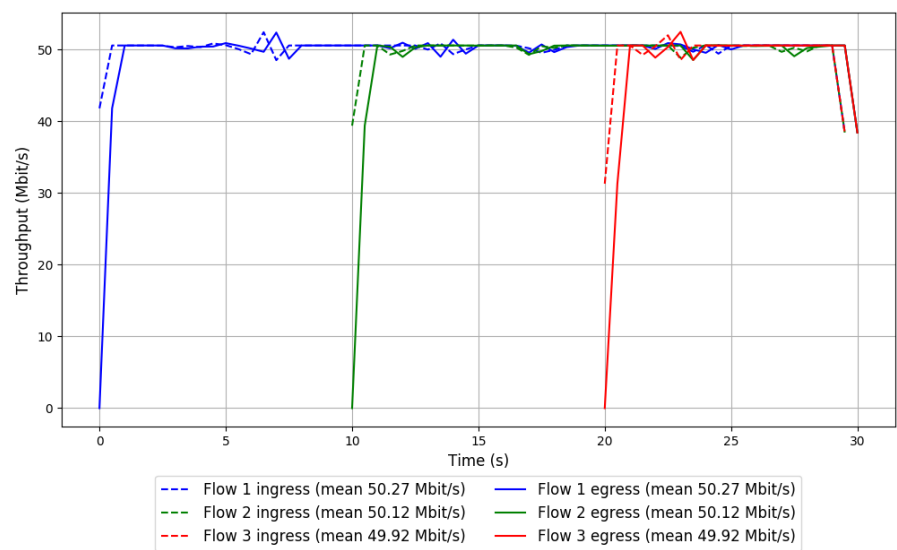


Run 2: Statistics of Sprout

Start at: 2019-01-03 10:29:29
End at: 2019-01-03 10:29:59
Local clock offset: 0.111 ms
Remote clock offset: -0.378 ms

Below is generated by plot.py at 2019-01-03 12:50:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 99.93 Mbit/s
95th percentile per-packet one-way delay: 1.464 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 1.440 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.12 Mbit/s
95th percentile per-packet one-way delay: 1.505 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.92 Mbit/s
95th percentile per-packet one-way delay: 1.446 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

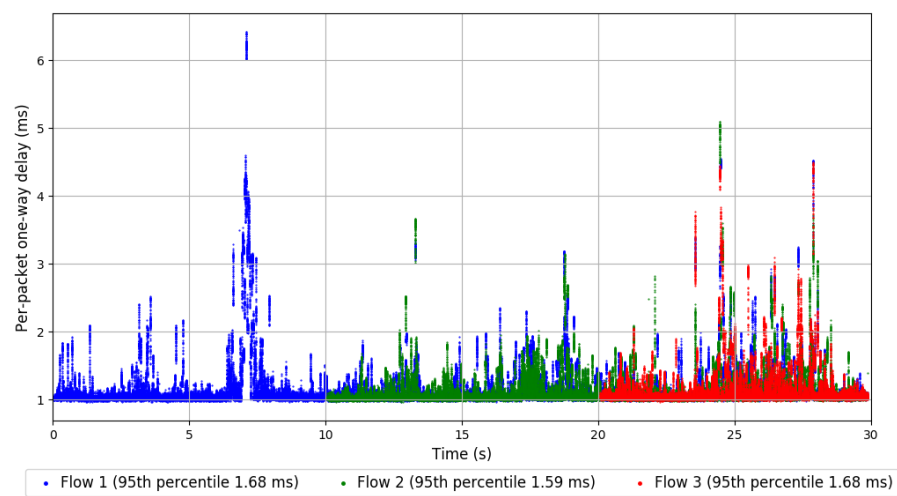
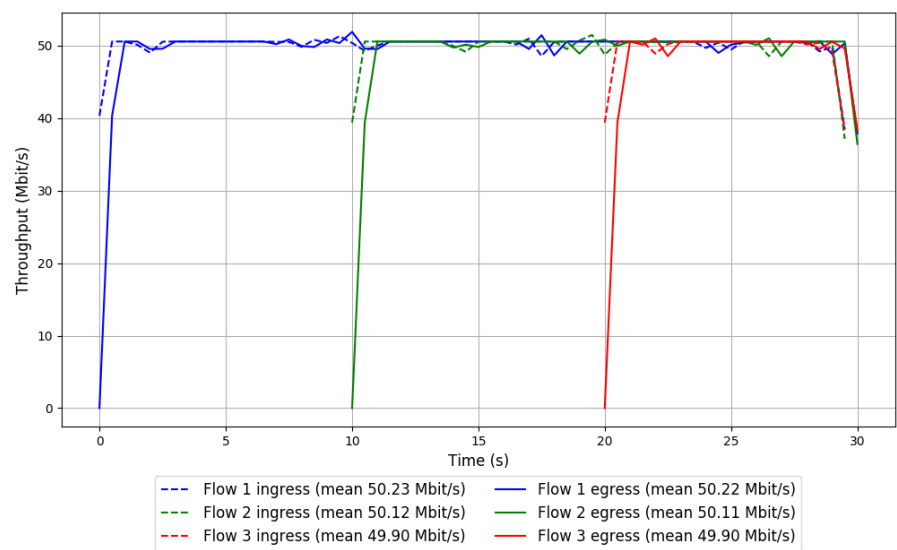


Run 3: Statistics of Sprout

Start at: 2019-01-03 10:57:04
End at: 2019-01-03 10:57:34
Local clock offset: 0.152 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2019-01-03 12:50:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 100.01 Mbit/s
95th percentile per-packet one-way delay: 1.643 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 1.677 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 50.11 Mbit/s
95th percentile per-packet one-way delay: 1.587 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 49.90 Mbit/s
95th percentile per-packet one-way delay: 1.675 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-01-03 11:24:29

End at: 2019-01-03 11:24:59

Local clock offset: 0.179 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2019-01-03 12:50:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 100.13 Mbit/s

95th percentile per-packet one-way delay: 0.848 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.25 Mbit/s

95th percentile per-packet one-way delay: 0.856 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 0.860 ms

Loss rate: 0.00%

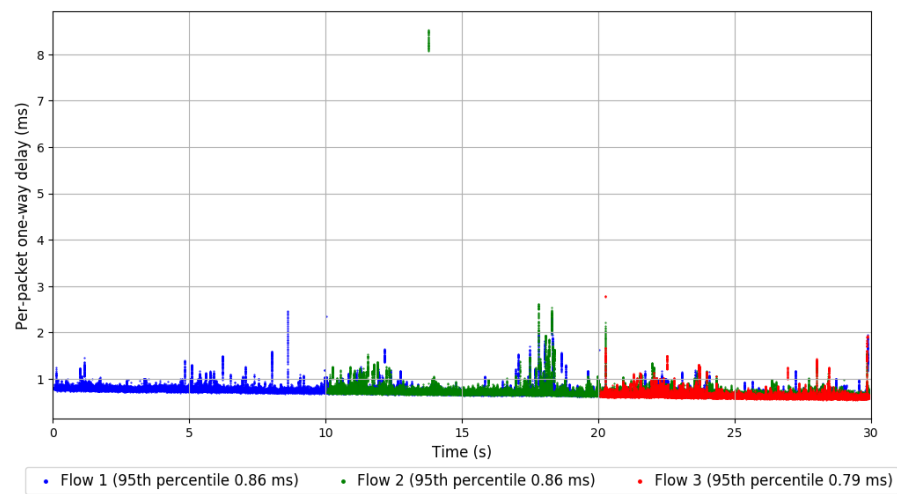
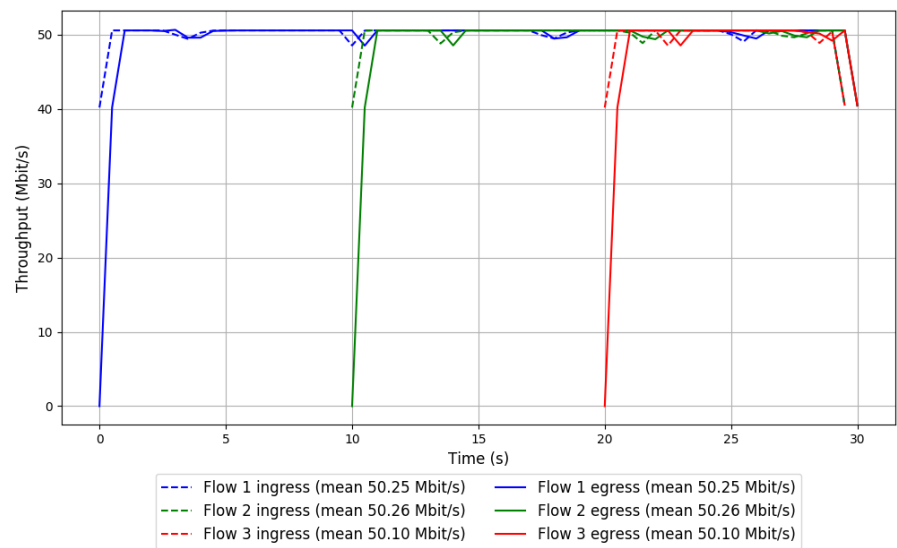
-- Flow 3:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 0.792 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

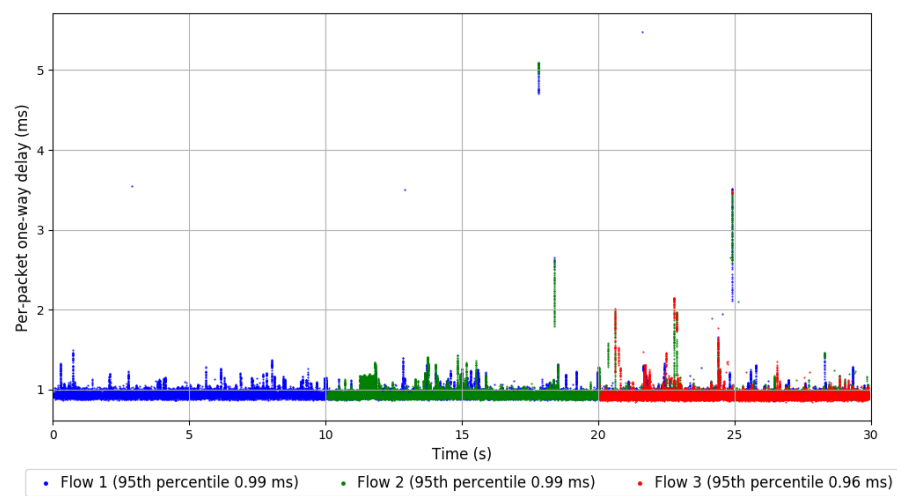
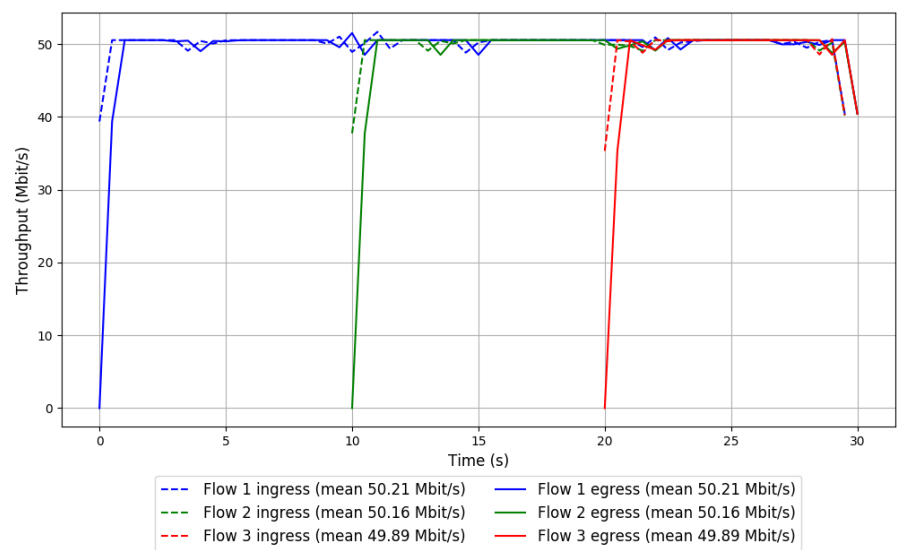


Run 5: Statistics of Sprout

Start at: 2019-01-03 11:52:10
End at: 2019-01-03 11:52:40
Local clock offset: 4.085 ms
Remote clock offset: 3.727 ms

```
# Below is generated by plot.py at 2019-01-03 12:51:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.94 Mbit/s
95th percentile per-packet one-way delay: 0.984 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 0.987 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 0.991 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 0.964 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

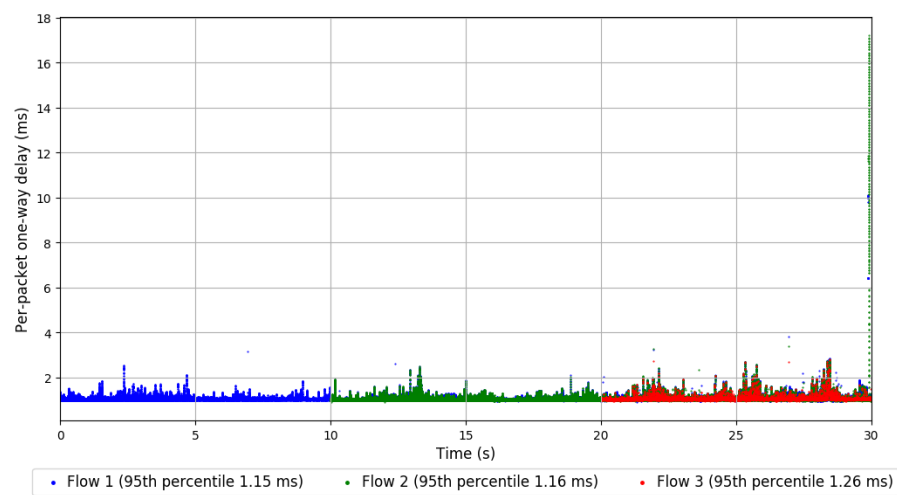
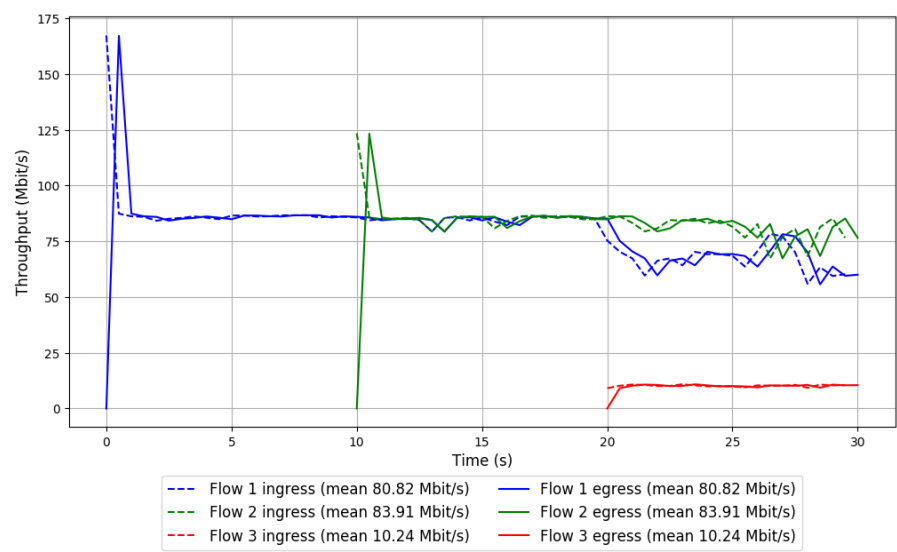


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-03 09:57:49
End at: 2019-01-03 09:58:19
Local clock offset: 0.057 ms
Remote clock offset: -0.878 ms

# Below is generated by plot.py at 2019-01-03 12:52:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.13 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.82 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 83.91 Mbit/s
95th percentile per-packet one-way delay: 1.156 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 10.24 Mbit/s
95th percentile per-packet one-way delay: 1.263 ms
Loss rate: 0.01%
```

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

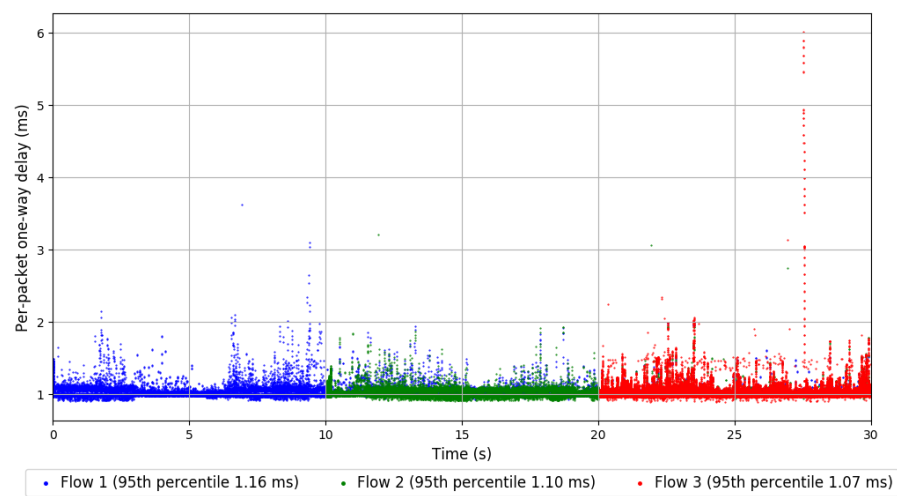
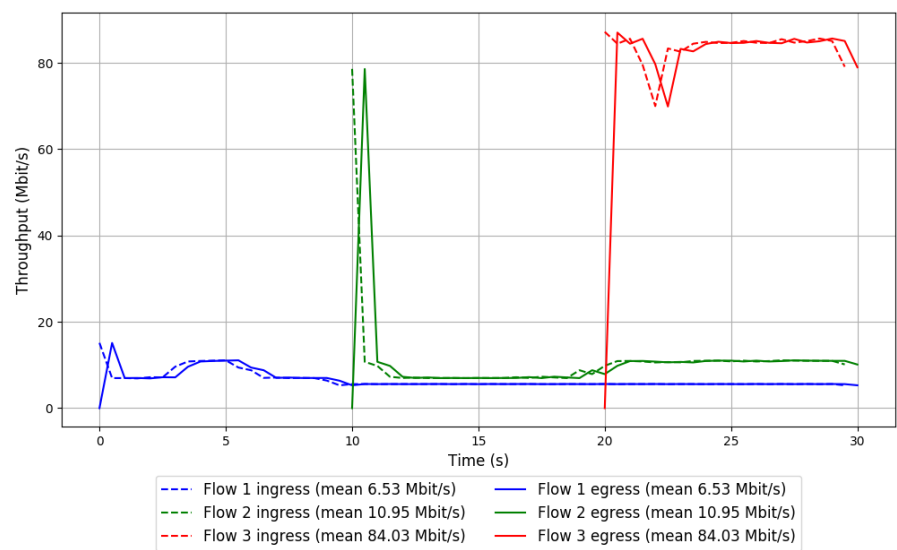


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-03 10:25:30
End at: 2019-01-03 10:26:00
Local clock offset: 0.061 ms
Remote clock offset: -0.425 ms

Below is generated by plot.py at 2019-01-03 12:52:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.68 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 10.95 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 84.03 Mbit/s
95th percentile per-packet one-way delay: 1.069 ms
Loss rate: 0.02%

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

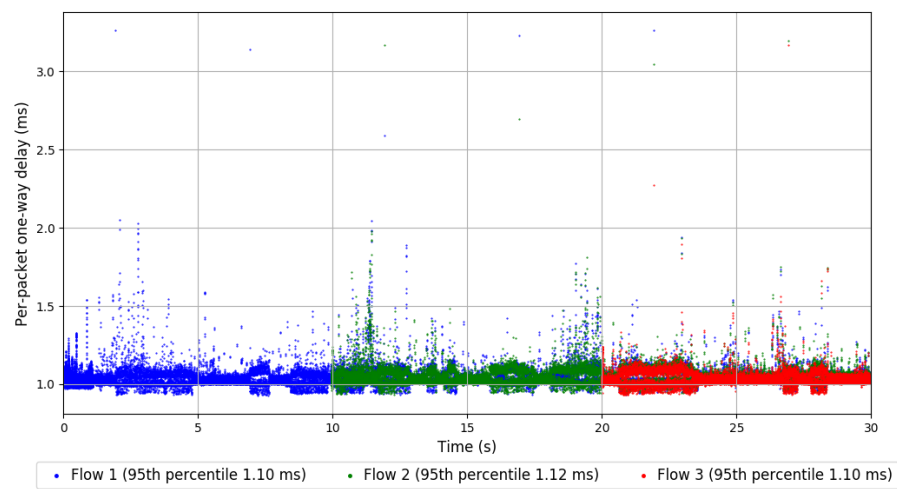
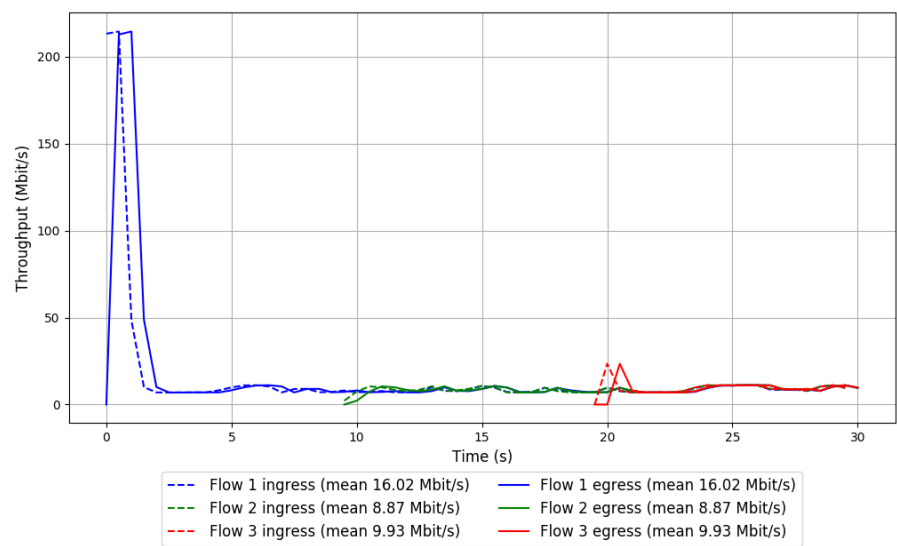


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-03 10:53:14
End at: 2019-01-03 10:53:44
Local clock offset: 0.175 ms
Remote clock offset: -0.288 ms

Below is generated by plot.py at 2019-01-03 12:52:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 25.23 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 16.02 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 8.87 Mbit/s
95th percentile per-packet one-way delay: 1.123 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-03 11:20:40

End at: 2019-01-03 11:21:10

Local clock offset: 0.177 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2019-01-03 12:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.65 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 1.016 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 7.32 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.01%

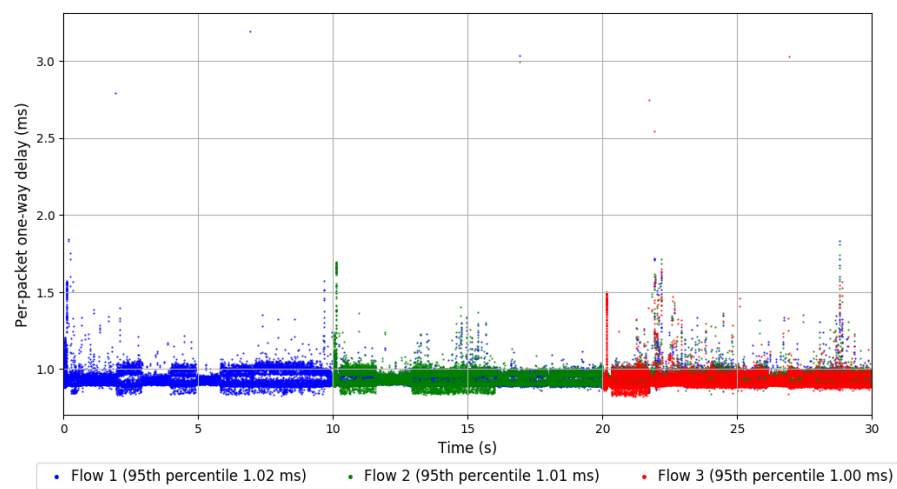
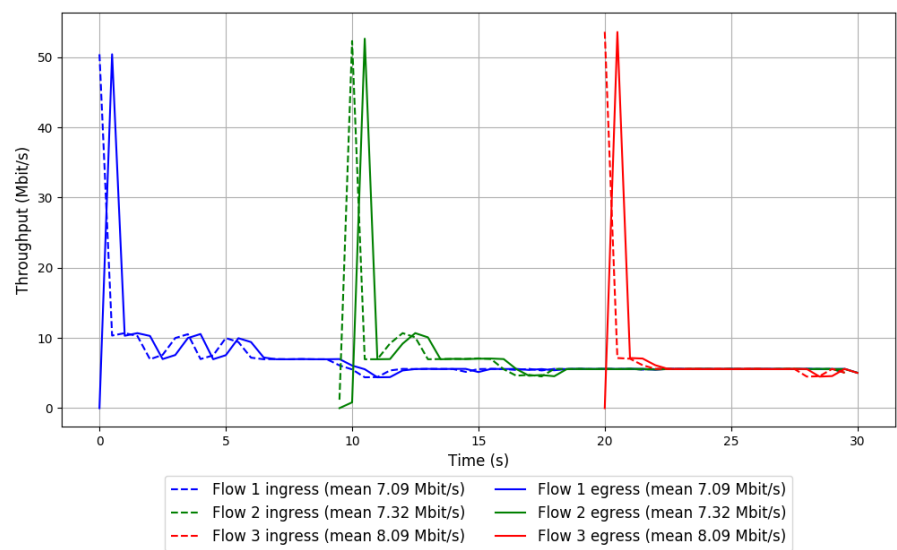
-- Flow 3:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-01-03 11:48:16

End at: 2019-01-03 11:48:46

Local clock offset: 3.854 ms

Remote clock offset: 3.418 ms

Below is generated by plot.py at 2019-01-03 12:52:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.07 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 1.150 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 1.250 ms

Loss rate: 0.00%

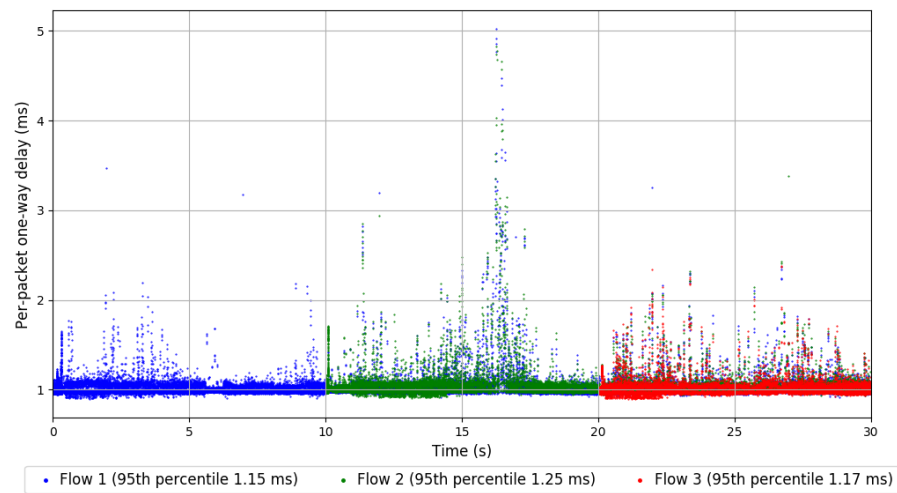
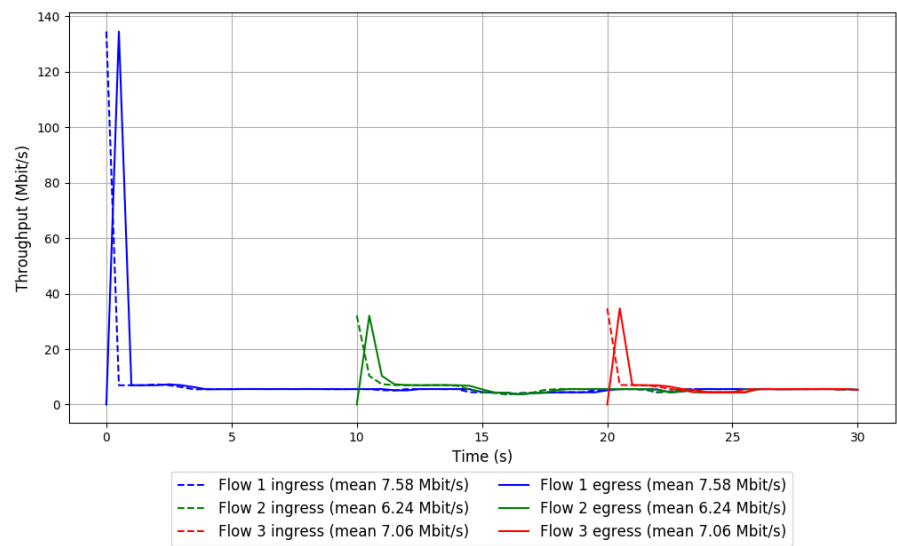
-- Flow 3:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.00%

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

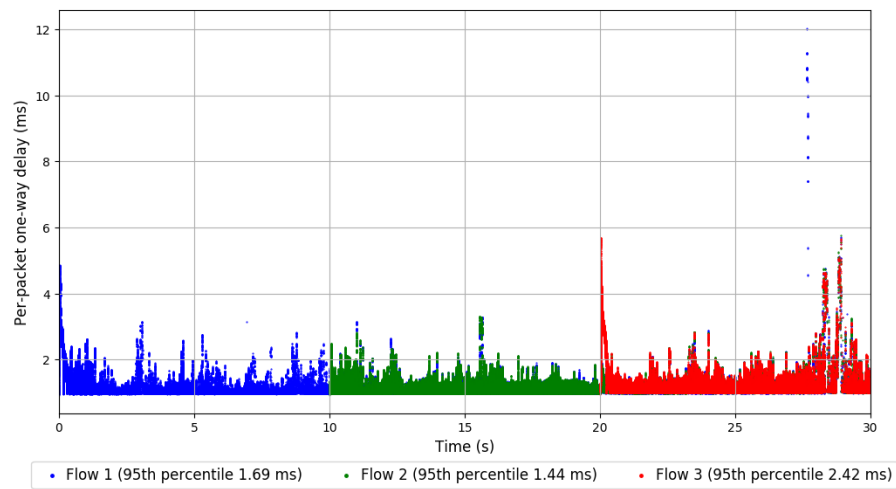
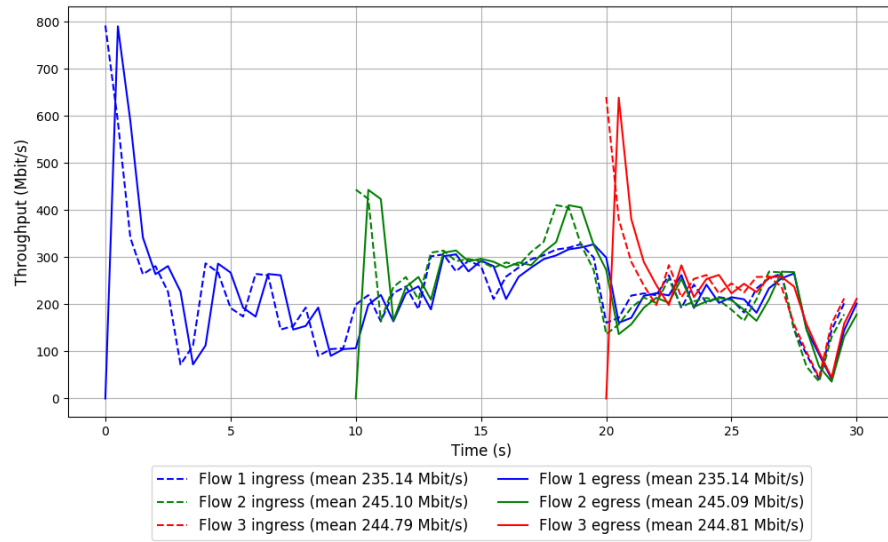


Run 1: Statistics of TCP Vegas

Start at: 2019-01-03 09:54:40
End at: 2019-01-03 09:55:10
Local clock offset: 0.036 ms
Remote clock offset: -1.033 ms

Below is generated by plot.py at 2019-01-03 12:55:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 479.80 Mbit/s
95th percentile per-packet one-way delay: 1.641 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 235.14 Mbit/s
95th percentile per-packet one-way delay: 1.691 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 245.09 Mbit/s
95th percentile per-packet one-way delay: 1.443 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 244.81 Mbit/s
95th percentile per-packet one-way delay: 2.422 ms
Loss rate: 0.02%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-03 10:22:20

End at: 2019-01-03 10:22:50

Local clock offset: 0.061 ms

Remote clock offset: -0.52 ms

Below is generated by plot.py at 2019-01-03 12:56:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 532.79 Mbit/s

95th percentile per-packet one-way delay: 1.316 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 261.05 Mbit/s

95th percentile per-packet one-way delay: 1.266 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 273.21 Mbit/s

95th percentile per-packet one-way delay: 1.299 ms

Loss rate: 0.01%

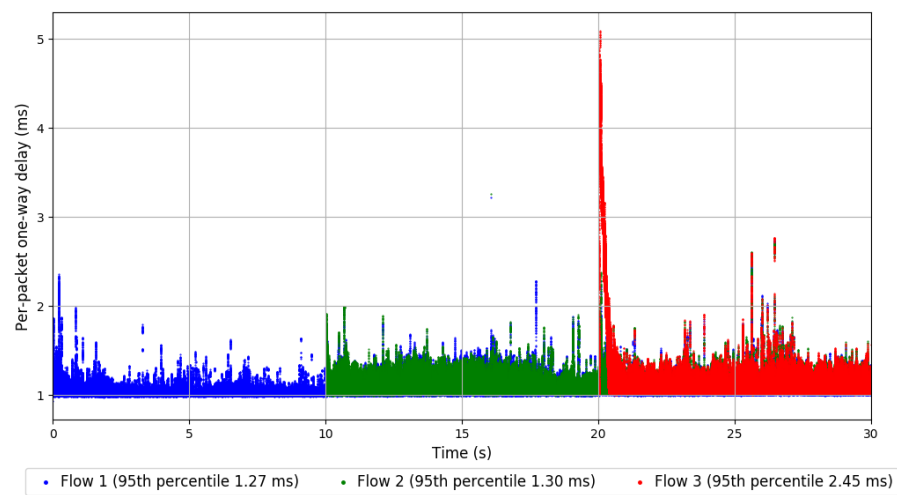
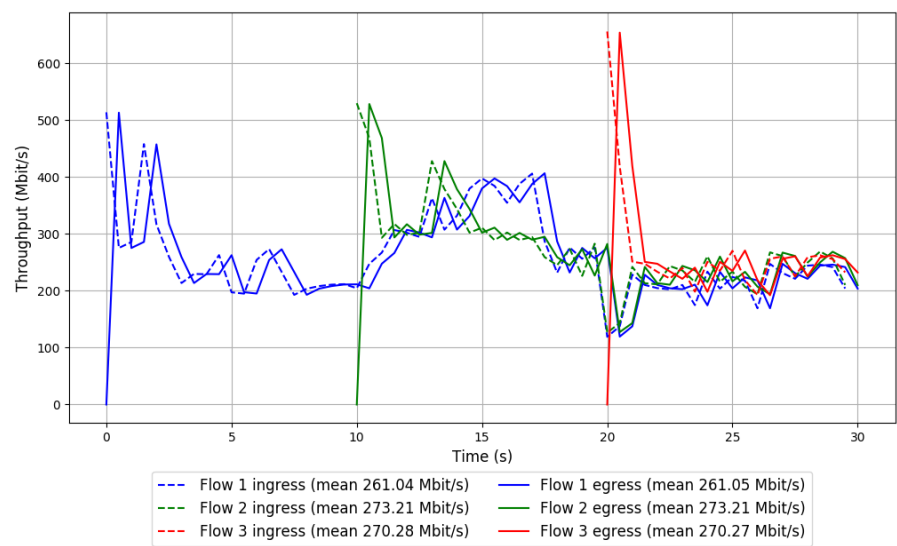
-- Flow 3:

Average throughput: 270.27 Mbit/s

95th percentile per-packet one-way delay: 2.449 ms

Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link

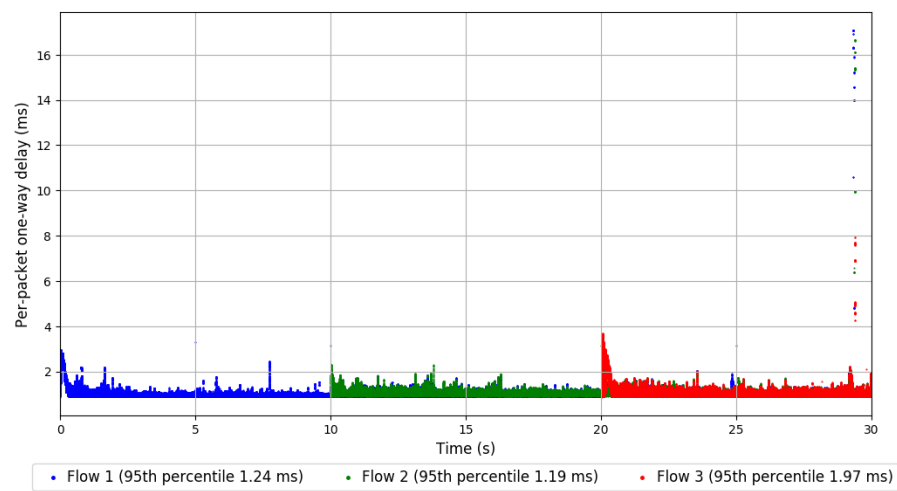
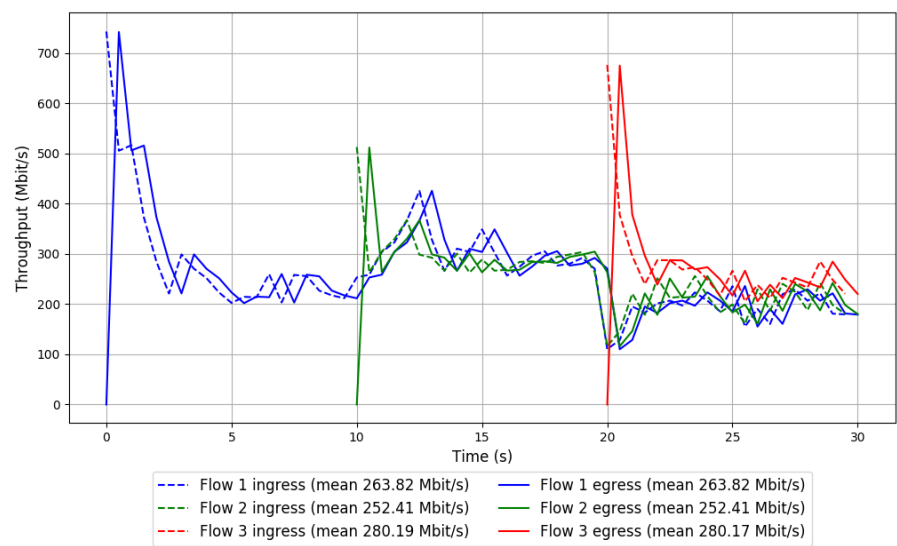


Run 3: Statistics of TCP Vegas

Start at: 2019-01-03 10:50:05
End at: 2019-01-03 10:50:35
Local clock offset: 0.178 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2019-01-03 12:56:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 525.04 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 263.82 Mbit/s
95th percentile per-packet one-way delay: 1.235 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 252.41 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 280.17 Mbit/s
95th percentile per-packet one-way delay: 1.965 ms
Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-03 11:17:30

End at: 2019-01-03 11:18:00

Local clock offset: 0.167 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2019-01-03 12:56:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 548.51 Mbit/s

95th percentile per-packet one-way delay: 1.307 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 249.14 Mbit/s

95th percentile per-packet one-way delay: 1.139 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 293.89 Mbit/s

95th percentile per-packet one-way delay: 1.485 ms

Loss rate: 0.01%

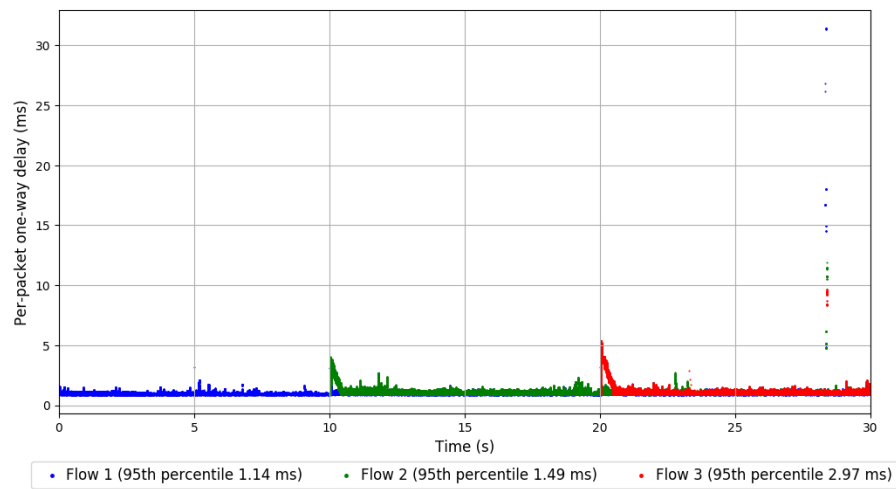
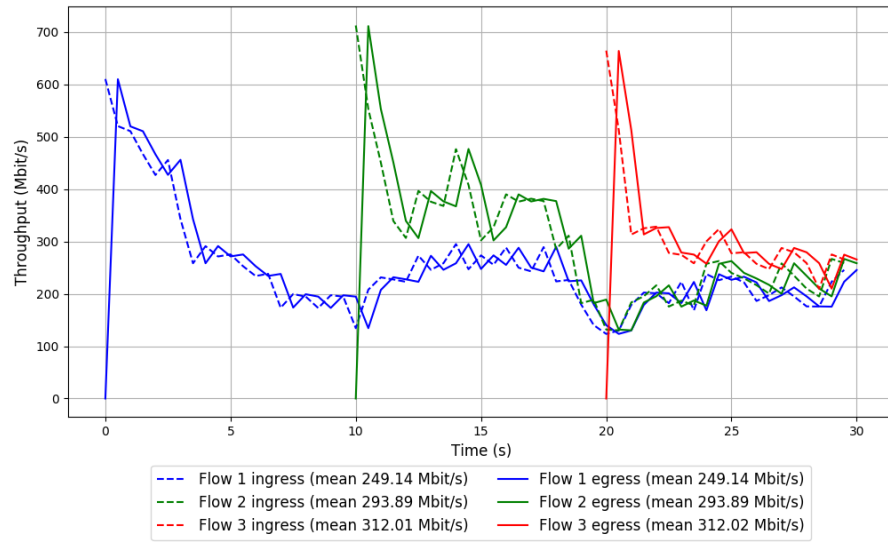
-- Flow 3:

Average throughput: 312.02 Mbit/s

95th percentile per-packet one-way delay: 2.974 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-03 11:45:07

End at: 2019-01-03 11:45:37

Local clock offset: 3.632 ms

Remote clock offset: 3.206 ms

Below is generated by plot.py at 2019-01-03 12:56:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 496.31 Mbit/s

95th percentile per-packet one-way delay: 1.336 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 259.17 Mbit/s

95th percentile per-packet one-way delay: 1.477 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 226.31 Mbit/s

95th percentile per-packet one-way delay: 1.258 ms

Loss rate: 0.01%

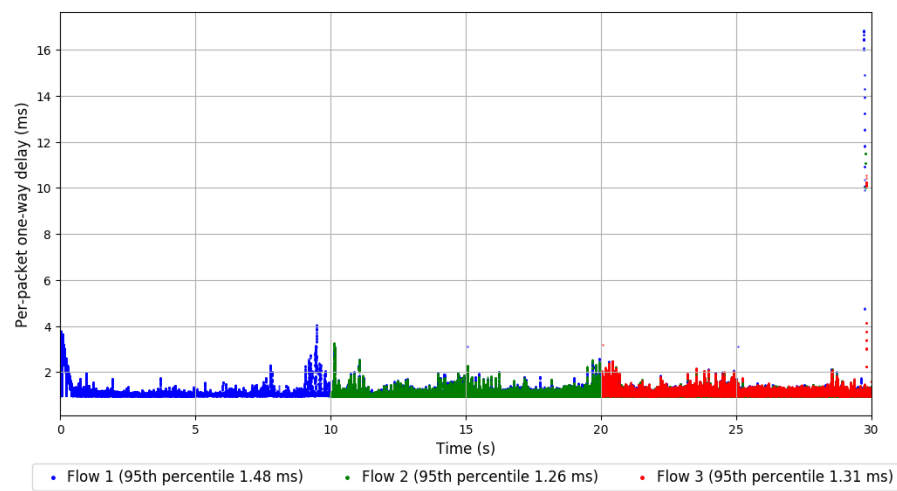
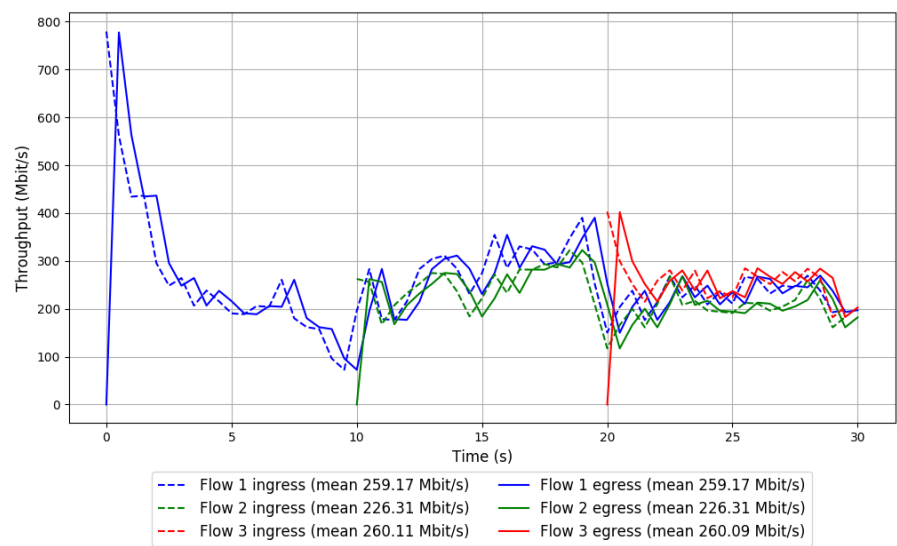
-- Flow 3:

Average throughput: 260.09 Mbit/s

95th percentile per-packet one-way delay: 1.311 ms

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link

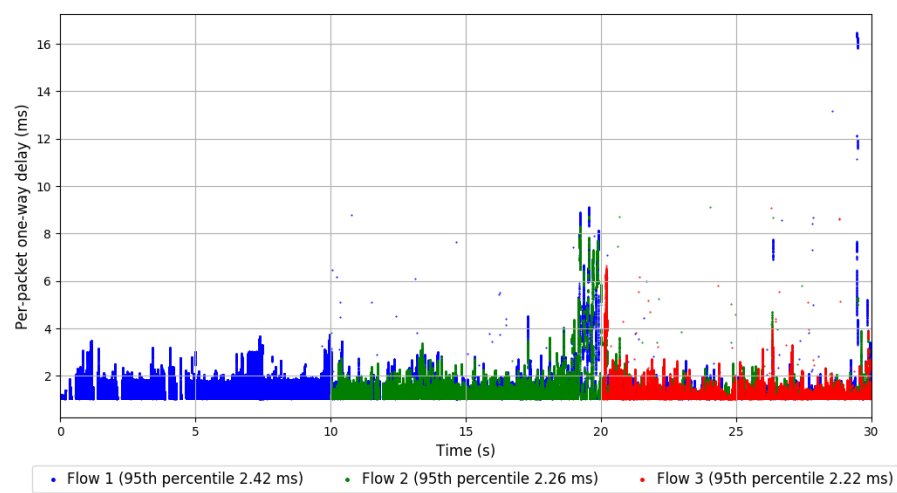
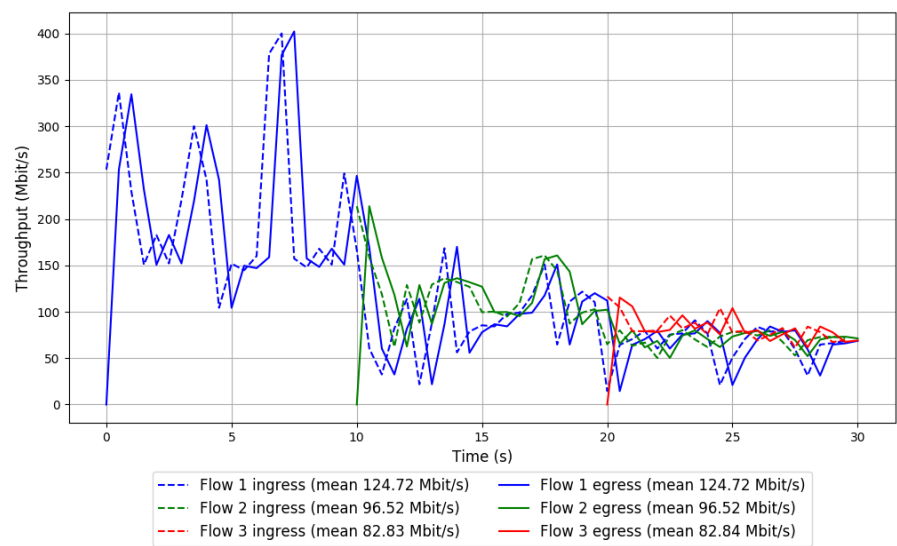


Run 1: Statistics of Verus

Start at: 2019-01-03 09:41:30
End at: 2019-01-03 09:42:00
Local clock offset: 0.685 ms
Remote clock offset: -2.367 ms

Below is generated by plot.py at 2019-01-03 12:56:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 216.47 Mbit/s
95th percentile per-packet one-way delay: 2.352 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 124.72 Mbit/s
95th percentile per-packet one-way delay: 2.420 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 2.256 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 82.84 Mbit/s
95th percentile per-packet one-way delay: 2.217 ms
Loss rate: 0.03%

Run 1: Report of Verus — Data Link

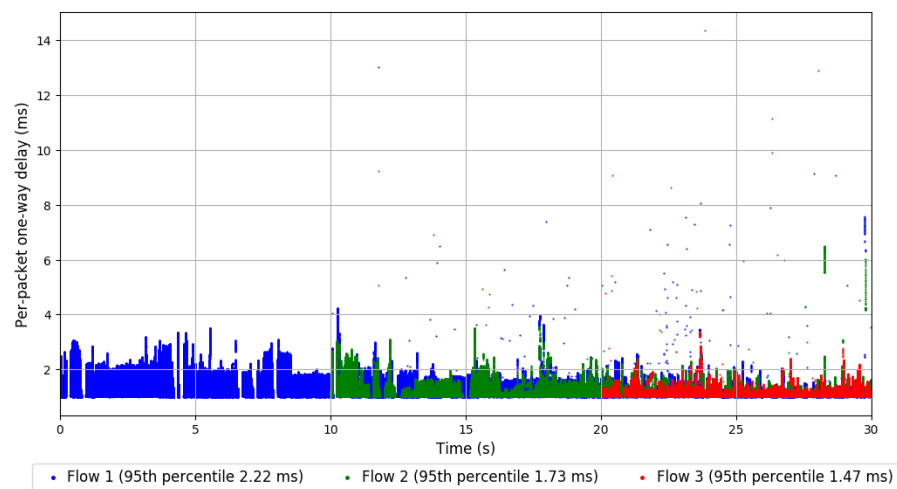
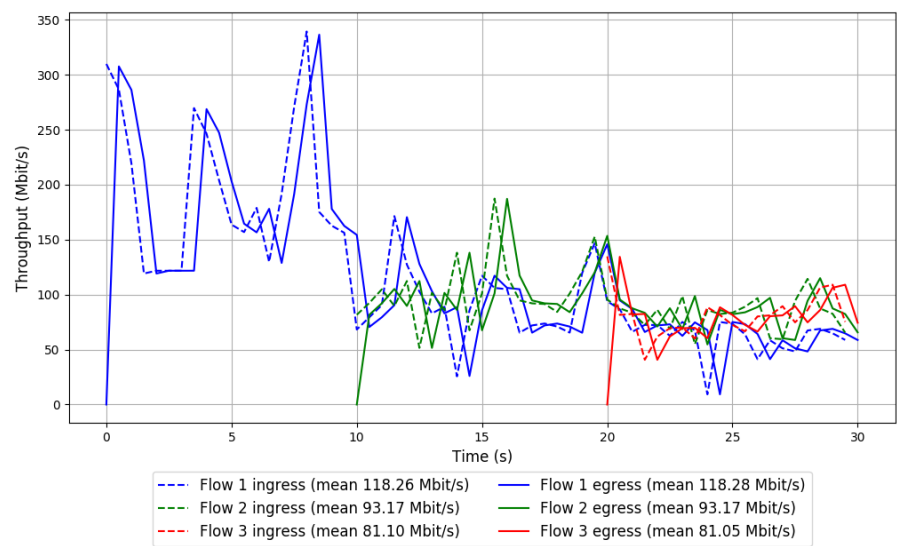


Run 2: Statistics of Verus

Start at: 2019-01-03 10:09:17
End at: 2019-01-03 10:09:47
Local clock offset: 0.059 ms
Remote clock offset: -0.702 ms

Below is generated by plot.py at 2019-01-03 12:56:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 207.16 Mbit/s
95th percentile per-packet one-way delay: 2.069 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 118.28 Mbit/s
95th percentile per-packet one-way delay: 2.217 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: 1.734 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 81.05 Mbit/s
95th percentile per-packet one-way delay: 1.465 ms
Loss rate: 0.06%

Run 2: Report of Verus — Data Link

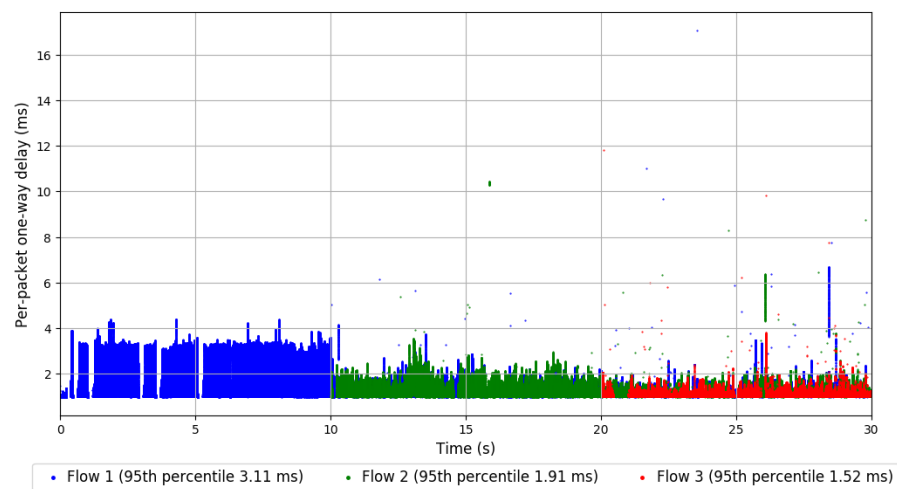
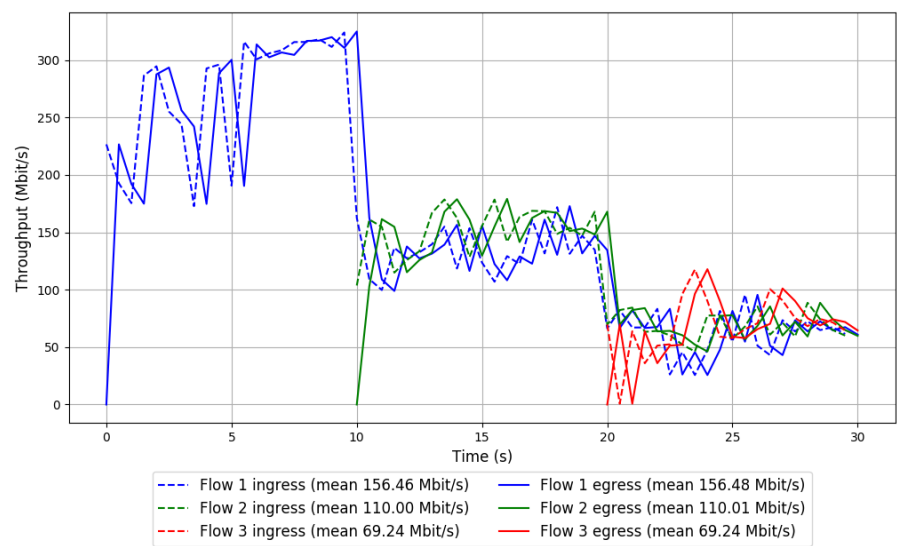


Run 3: Statistics of Verus

Start at: 2019-01-03 10:36:59
End at: 2019-01-03 10:37:29
Local clock offset: 0.159 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2019-01-03 12:56:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 252.70 Mbit/s
95th percentile per-packet one-way delay: 2.986 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 156.48 Mbit/s
95th percentile per-packet one-way delay: 3.114 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 110.01 Mbit/s
95th percentile per-packet one-way delay: 1.907 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 69.24 Mbit/s
95th percentile per-packet one-way delay: 1.520 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-03 11:04:26

End at: 2019-01-03 11:04:56

Local clock offset: 0.148 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2019-01-03 12:56:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 270.95 Mbit/s

95th percentile per-packet one-way delay: 2.126 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 167.39 Mbit/s

95th percentile per-packet one-way delay: 2.229 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 120.09 Mbit/s

95th percentile per-packet one-way delay: 1.738 ms

Loss rate: 0.01%

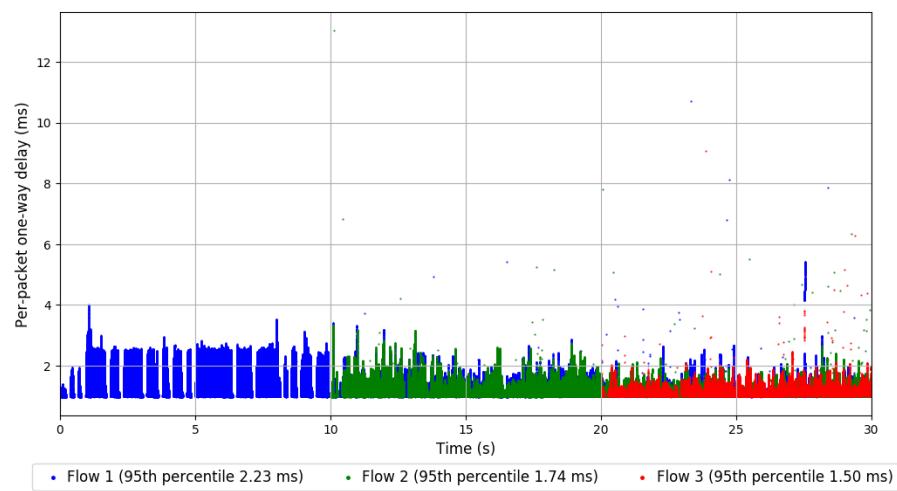
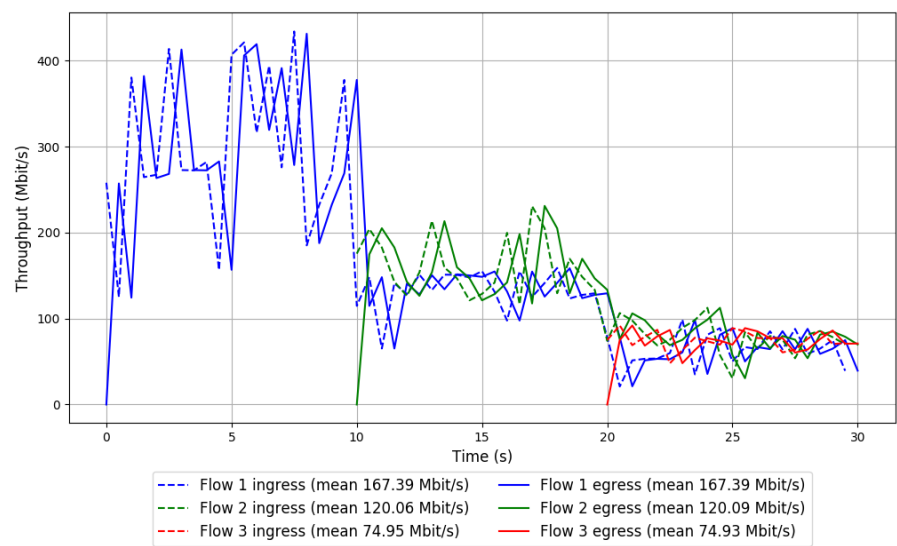
-- Flow 3:

Average throughput: 74.93 Mbit/s

95th percentile per-packet one-way delay: 1.503 ms

Loss rate: 0.04%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-01-03 11:31:56

End at: 2019-01-03 11:32:26

Local clock offset: 2.101 ms

Remote clock offset: 1.38 ms

Below is generated by plot.py at 2019-01-03 12:56:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.17 Mbit/s

95th percentile per-packet one-way delay: 1.968 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 158.53 Mbit/s

95th percentile per-packet one-way delay: 2.017 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 114.28 Mbit/s

95th percentile per-packet one-way delay: 1.892 ms

Loss rate: 0.06%

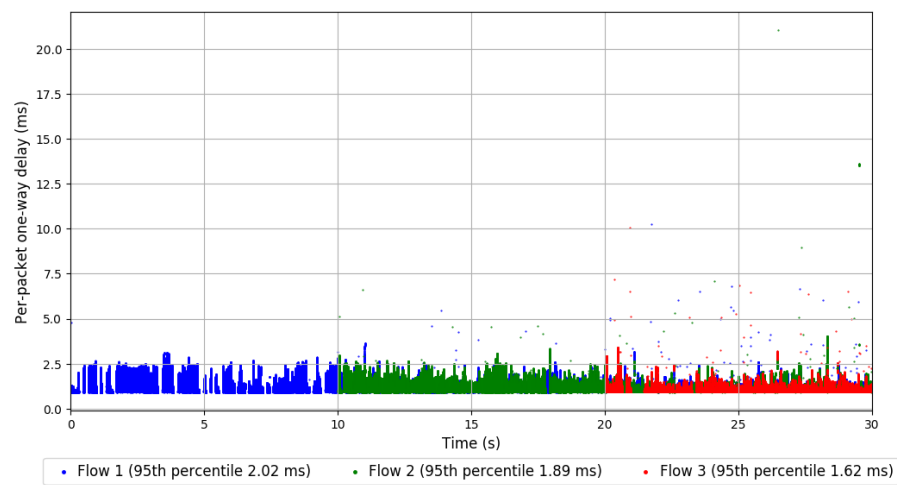
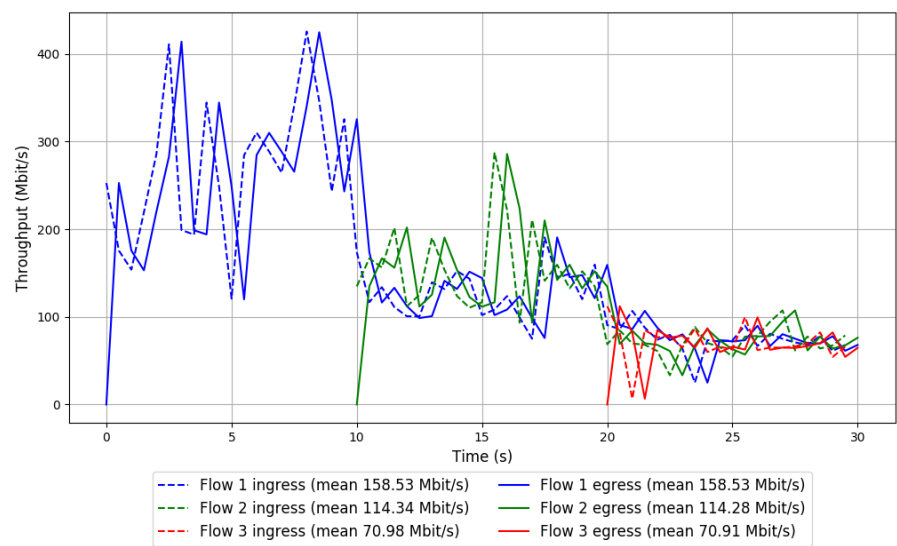
-- Flow 3:

Average throughput: 70.91 Mbit/s

95th percentile per-packet one-way delay: 1.622 ms

Loss rate: 0.09%

Run 5: Report of Verus — Data Link

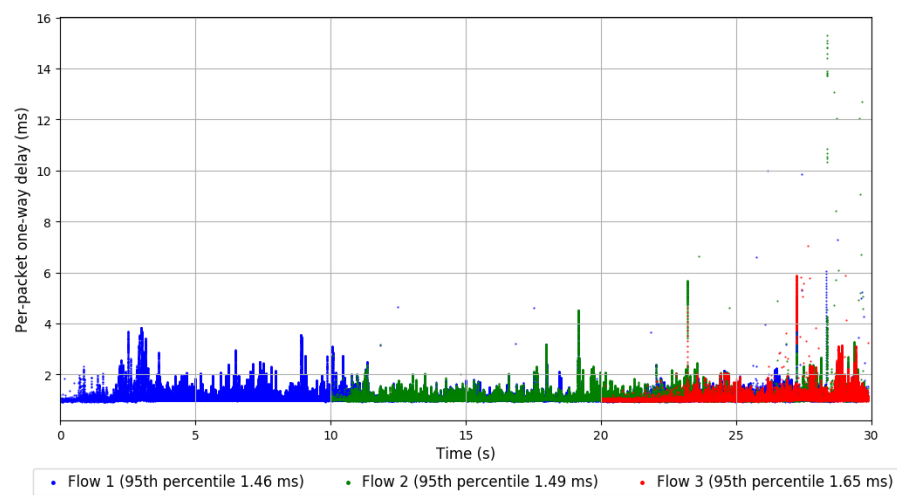
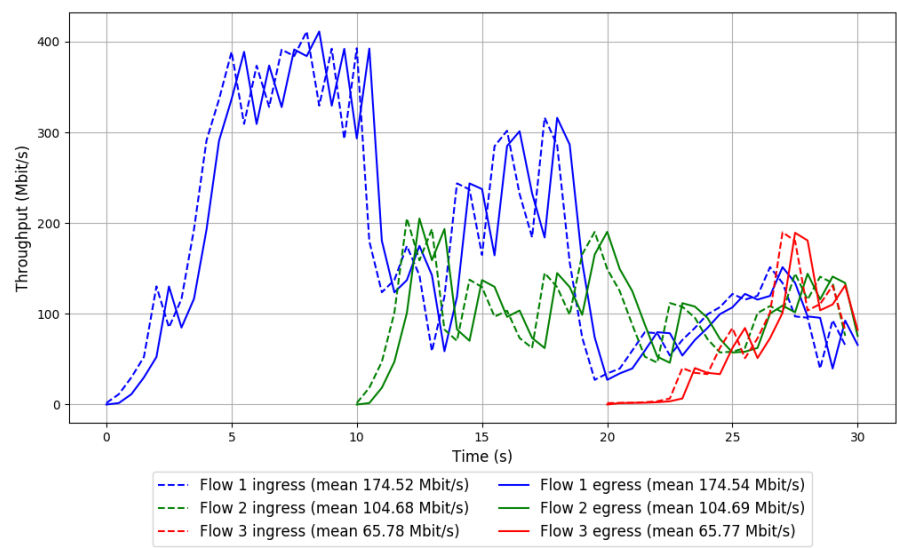


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-03 10:04:53
End at: 2019-01-03 10:05:23
Local clock offset: 0.057 ms
Remote clock offset: -0.725 ms

Below is generated by plot.py at 2019-01-03 12:57:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 265.84 Mbit/s
95th percentile per-packet one-way delay: 1.480 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.54 Mbit/s
95th percentile per-packet one-way delay: 1.455 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 104.69 Mbit/s
95th percentile per-packet one-way delay: 1.490 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.77 Mbit/s
95th percentile per-packet one-way delay: 1.650 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

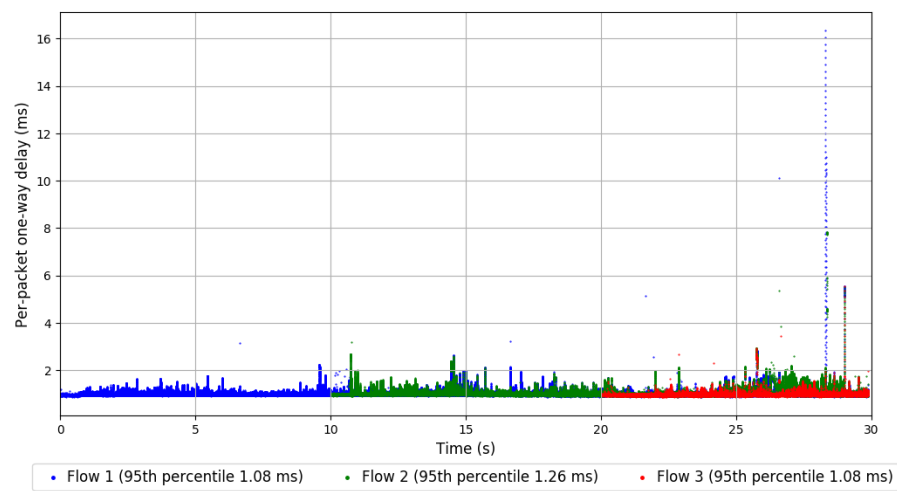
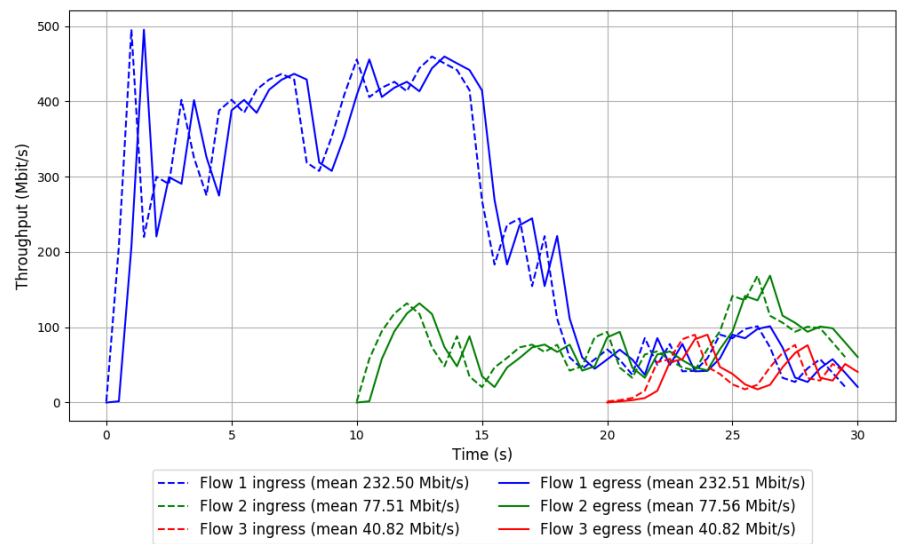


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-03 10:32:28
End at: 2019-01-03 10:32:58
Local clock offset: 0.131 ms
Remote clock offset: -0.343 ms

Below is generated by plot.py at 2019-01-03 12:58:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 297.53 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.51 Mbit/s
95th percentile per-packet one-way delay: 1.079 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 77.56 Mbit/s
95th percentile per-packet one-way delay: 1.263 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 40.82 Mbit/s
95th percentile per-packet one-way delay: 1.085 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

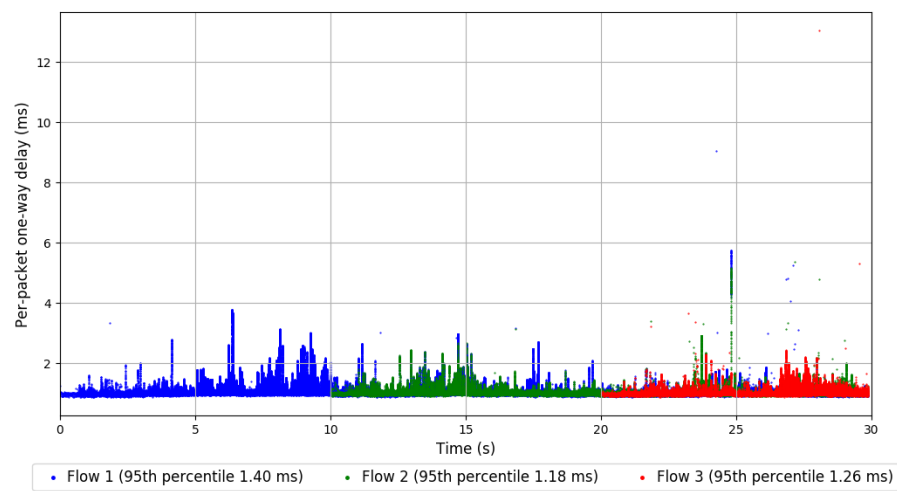
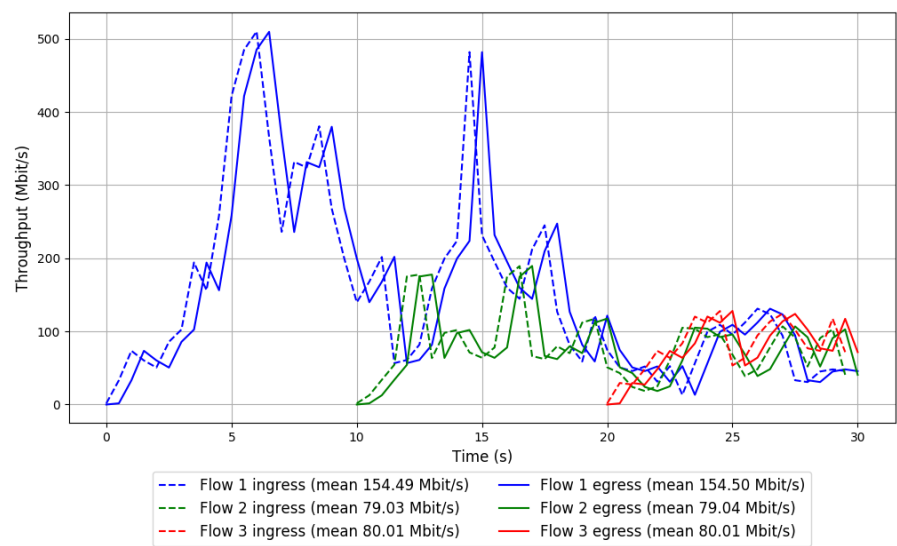


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-03 11:00:04
End at: 2019-01-03 11:00:34
Local clock offset: 0.142 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2019-01-03 12:58:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 233.47 Mbit/s
95th percentile per-packet one-way delay: 1.328 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 154.50 Mbit/s
95th percentile per-packet one-way delay: 1.399 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 1.259 ms
Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-03 11:27:29

End at: 2019-01-03 11:27:59

Local clock offset: 1.147 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2019-01-03 12:58:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 303.24 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.22 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 117.45 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.01%

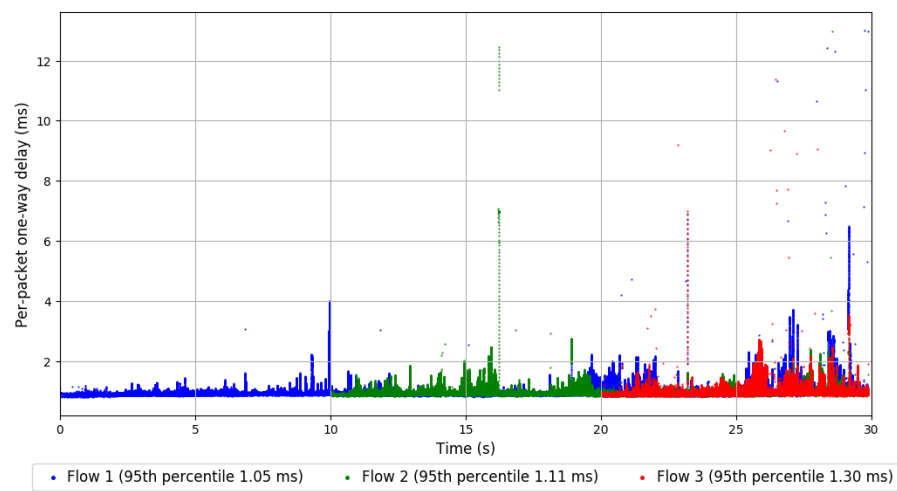
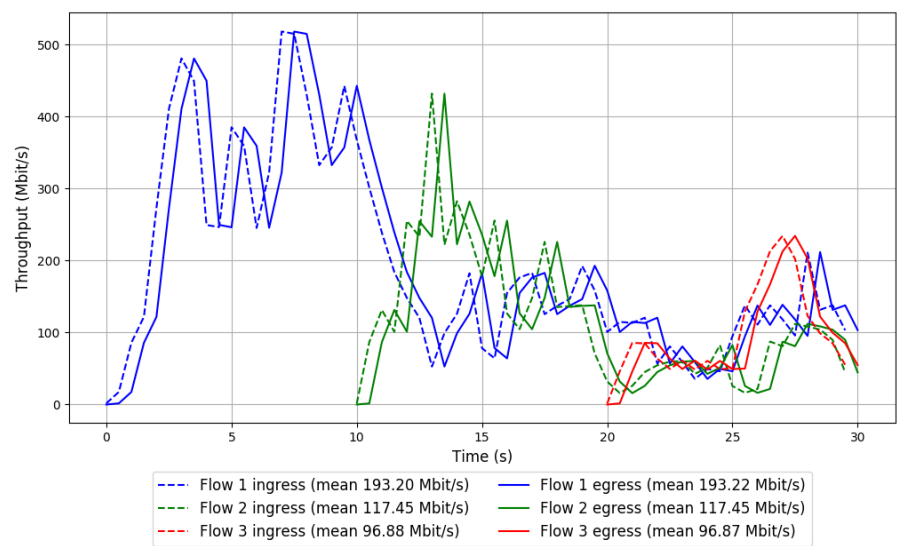
-- Flow 3:

Average throughput: 96.87 Mbit/s

95th percentile per-packet one-way delay: 1.300 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-01-03 11:55:10

End at: 2019-01-03 11:55:40

Local clock offset: 3.854 ms

Remote clock offset: 3.792 ms

Below is generated by plot.py at 2019-01-03 12:58:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 279.38 Mbit/s

95th percentile per-packet one-way delay: 1.554 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 191.38 Mbit/s

95th percentile per-packet one-way delay: 1.480 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 1.647 ms

Loss rate: 0.01%

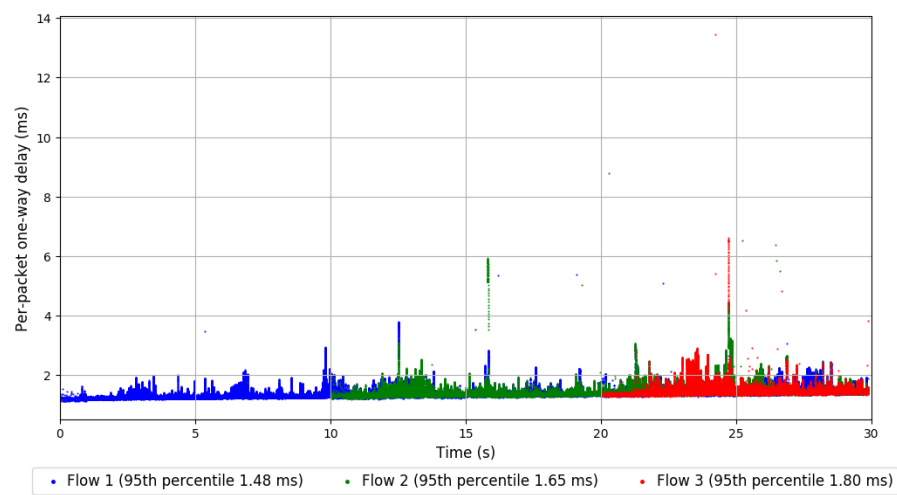
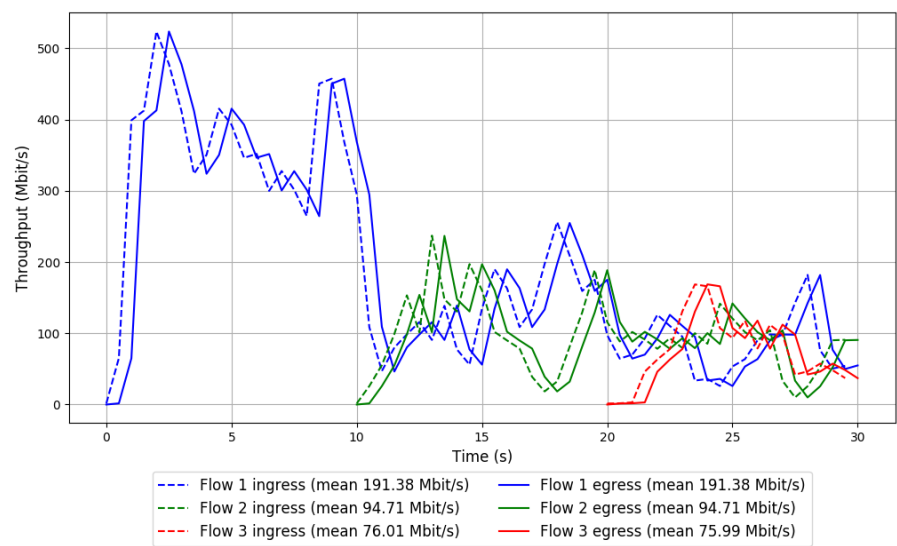
-- Flow 3:

Average throughput: 75.99 Mbit/s

95th percentile per-packet one-way delay: 1.803 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link

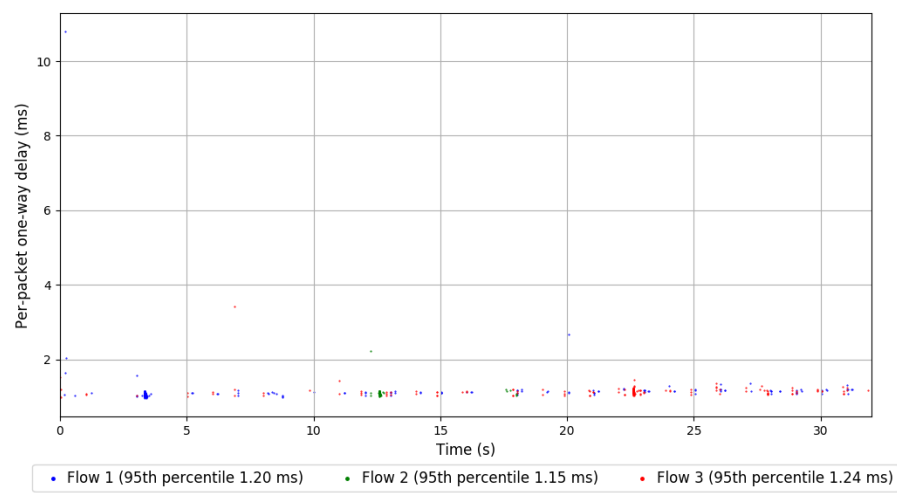
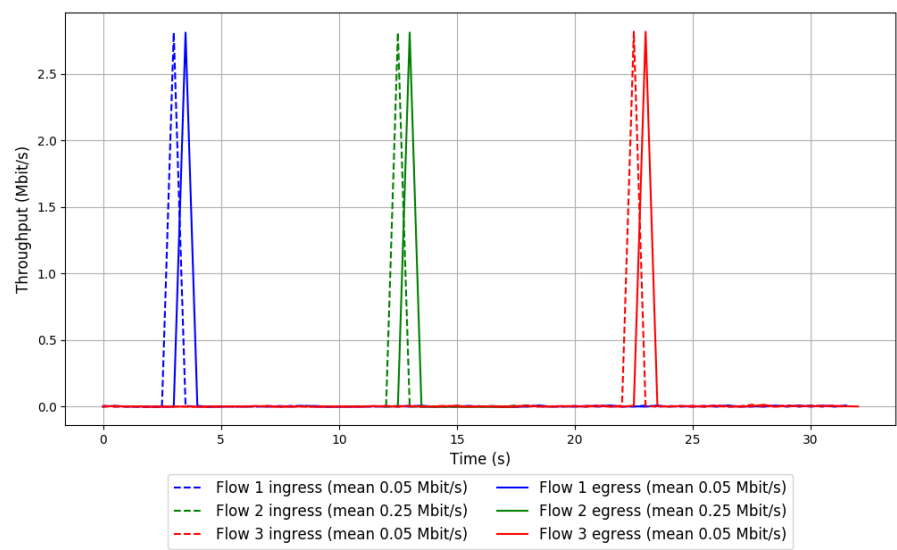


Run 1: Statistics of WebRTC media

Start at: 2019-01-03 09:48:49
End at: 2019-01-03 09:49:19
Local clock offset: 0.243 ms
Remote clock offset: -1.675 ms

Below is generated by plot.py at 2019-01-03 12:58:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 1.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.204 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 1.146 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.236 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

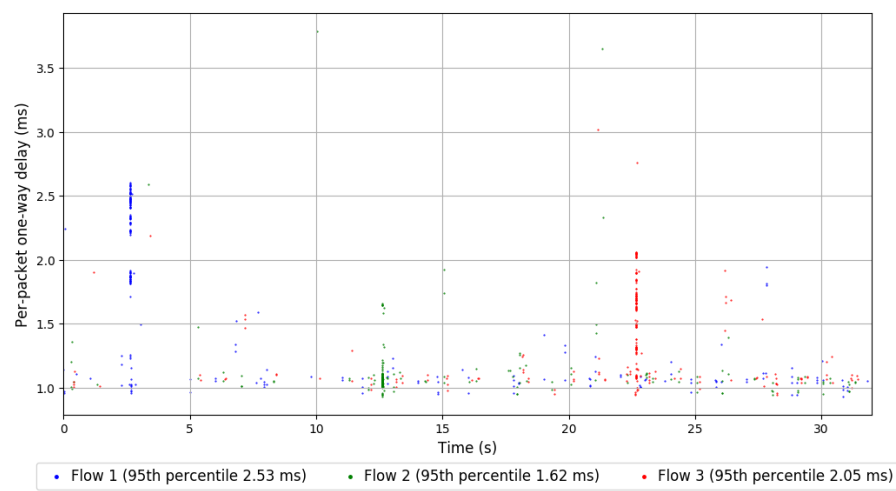
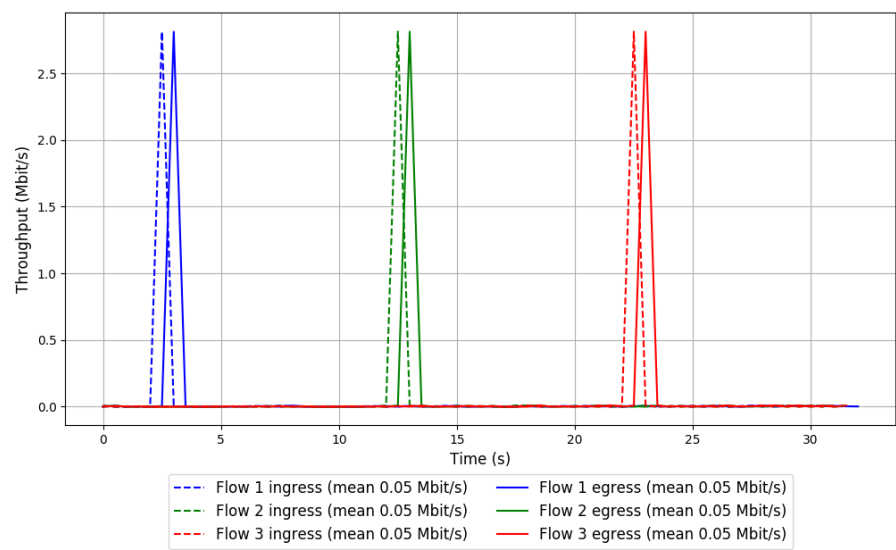


Run 2: Statistics of WebRTC media

Start at: 2019-01-03 10:16:34
End at: 2019-01-03 10:17:04
Local clock offset: 0.05 ms
Remote clock offset: -0.689 ms

Below is generated by plot.py at 2019-01-03 12:58:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 2.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.534 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.624 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.050 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

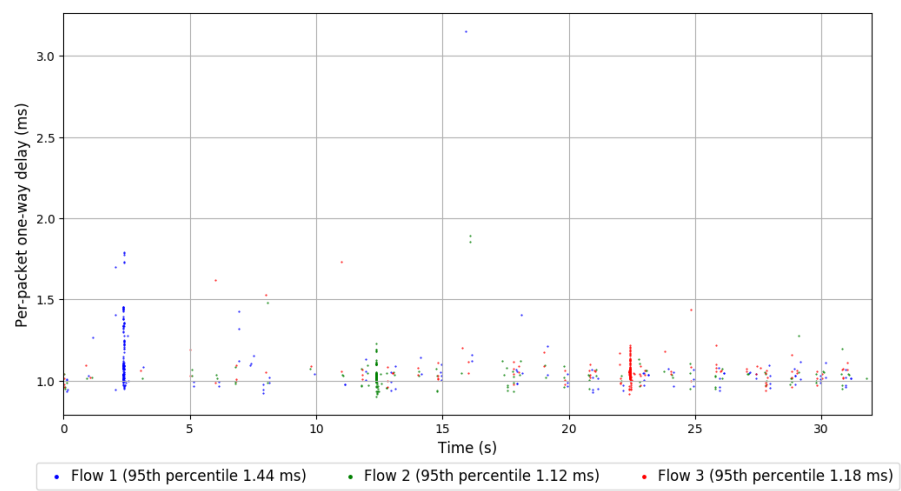
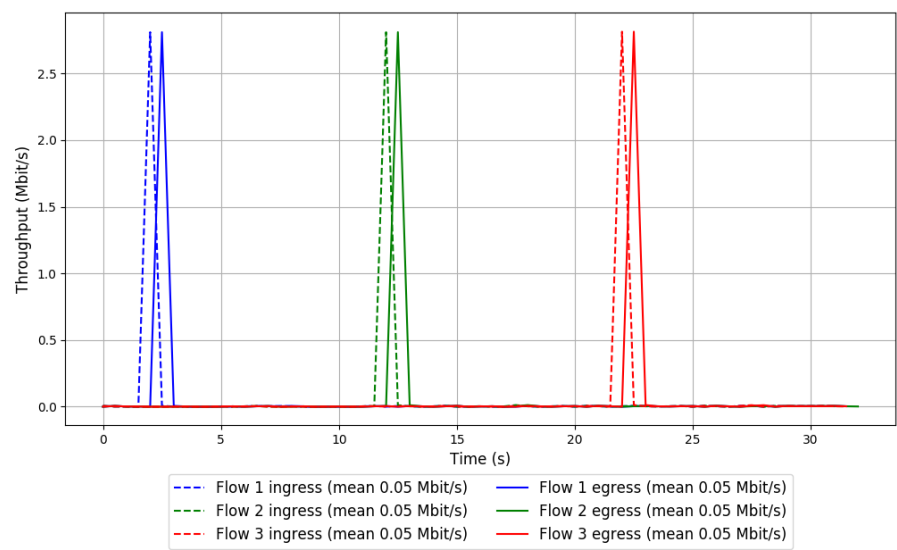


Run 3: Statistics of WebRTC media

Start at: 2019-01-03 10:44:18
End at: 2019-01-03 10:44:48
Local clock offset: 0.171 ms
Remote clock offset: -0.275 ms

Below is generated by plot.py at 2019-01-03 12:58:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 1.338 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.443 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.180 ms
Loss rate: 0.06%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-03 11:11:49

End at: 2019-01-03 11:12:19

Local clock offset: 0.155 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2019-01-03 12:58:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.00%

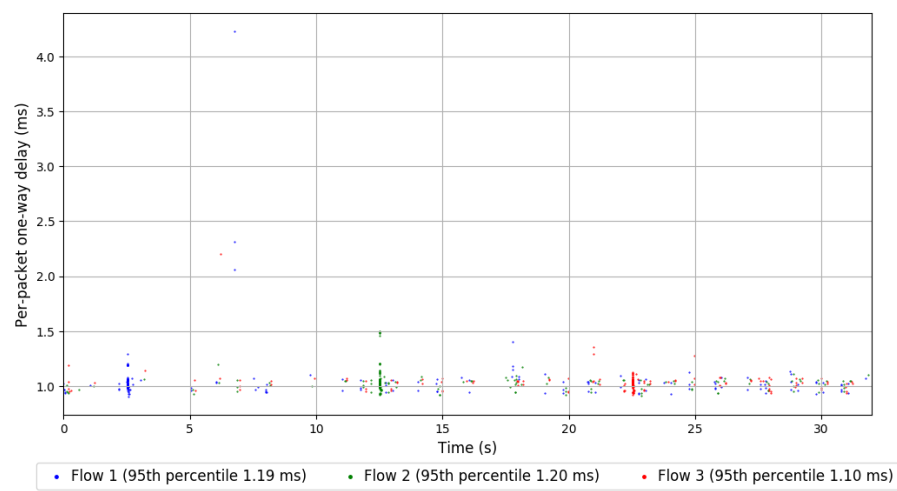
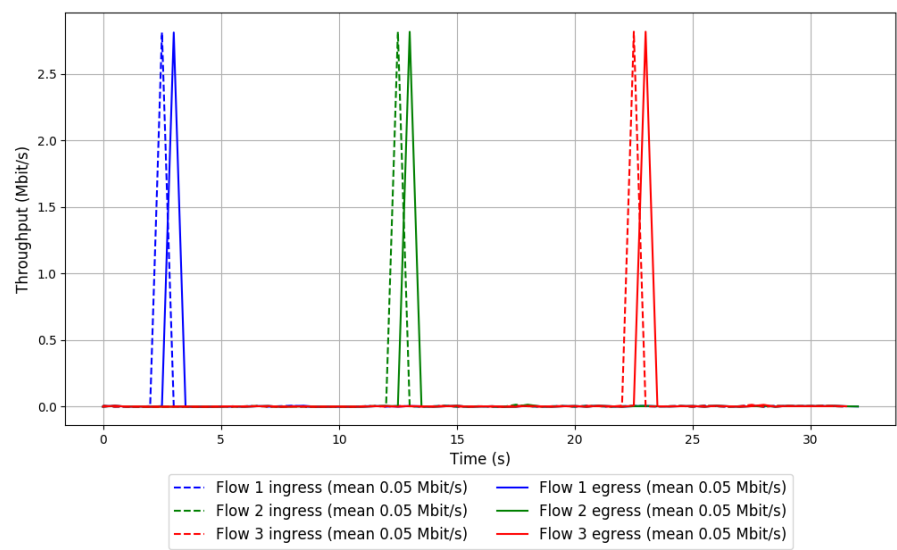
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.100 ms

Loss rate: 0.06%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-03 11:39:16

End at: 2019-01-03 11:39:46

Local clock offset: 3.097 ms

Remote clock offset: 2.624 ms

Below is generated by plot.py at 2019-01-03 12:58:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.509 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

