

Pantheon Report

Generated at 2018-12-20 03:49:50 (UTC).

Data path: AWS Korea on `ens5` (*local*) → China on `eno1` (*remote*).

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 `ntp.nict.jp` and have been applied to correct the timestamps in logs.

System info:

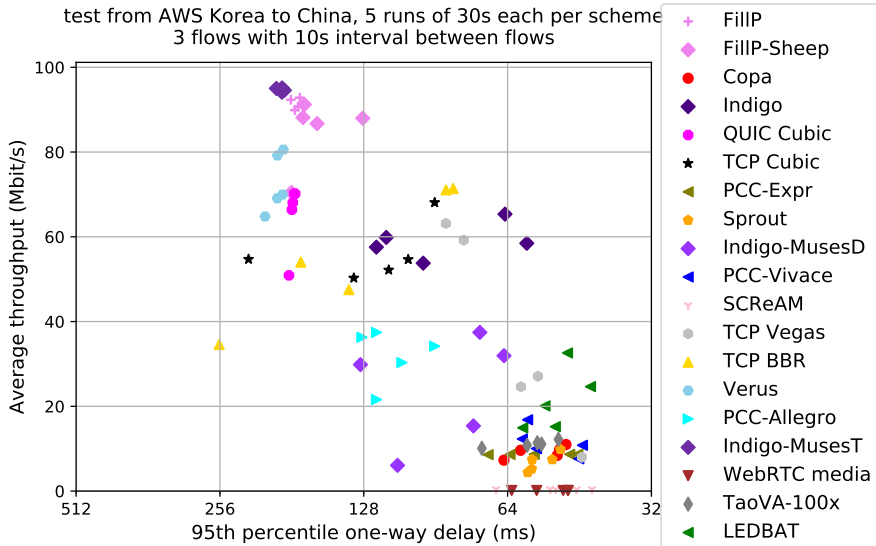
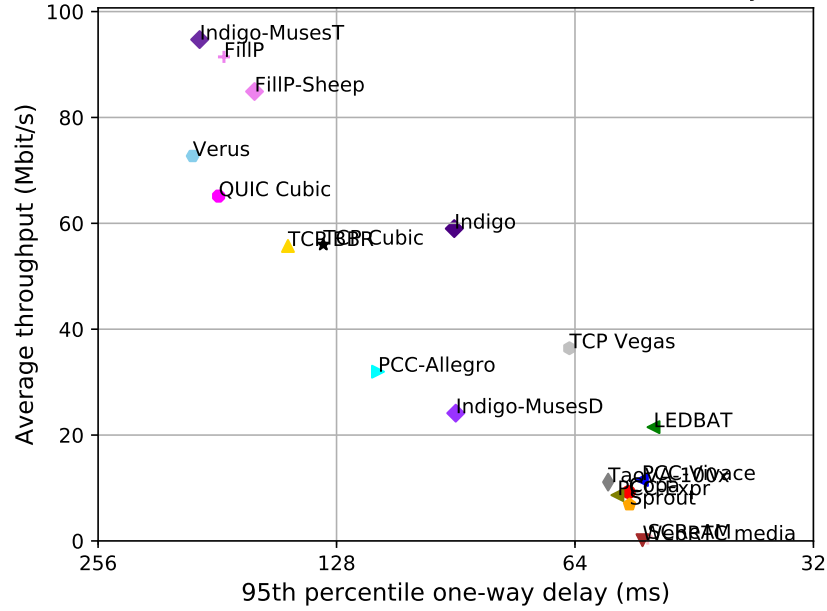
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfc58e562f4
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 AWS Korea to China, 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	43.35	13.93	9.33	150.28	122.25	135.11	20.08	23.64	28.46
Copa	5	4.86	4.69	3.75	54.82	54.19	54.93	4.76	6.59	14.57
TCP Cubic	5	40.14	20.04	7.51	106.89	142.38	149.47	2.08	0.85	1.67
FillP	4	54.81	43.50	23.29	177.27	175.67	179.17	11.78	21.00	20.95
FillP-Sheep	5	34.77	56.77	37.02	157.49	163.41	163.08	4.02	3.57	5.08
Indigo	5	39.48	22.62	14.26	84.23	93.99	114.89	2.85	3.93	3.01
Indigo-MusesD	5	9.43	10.55	23.65	109.59	62.97	76.42	1.53	0.25	0.27
Indigo-MusesT	4	64.78	38.54	15.17	189.50	189.86	192.00	4.60	10.23	15.48
LEDBAT	5	14.04	8.95	4.56	49.23	51.19	50.62	0.00	0.02	0.00
PCC-Allegro	5	44.93	14.84	2.46	97.66	119.38	129.77	51.18	60.78	78.40
PCC-Expr	5	0.01	10.21	5.62	52.42	56.48	56.93	84.57	35.37	37.94
QUIC Cubic	5	35.29	39.37	11.54	178.52	180.30	176.50	0.18	0.22	0.41
SCReAM	5	0.21	0.22	0.20	52.32	48.84	50.26	0.00	0.00	0.00
Sprout	5	3.71	3.21	3.09	49.93	55.76	55.19	0.01	0.01	0.27
TaoVA-100x	5	5.36	6.32	4.63	58.14	60.13	58.11	8.67	19.74	14.77
TCP Vegas	5	21.11	12.21	21.53	59.56	60.50	66.15	0.67	0.21	0.80
Verus	5	53.70	18.11	21.81	193.75	193.24	193.22	13.45	16.12	19.10
PCC-Vivace	5	6.45	5.66	3.96	49.61	49.56	48.93	0.03	0.05	0.06
WebRTC media	5	0.05	0.05	0.05	47.58	47.97	52.32	0.00	0.00	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-12-20 01:51:25

End at: 2018-12-20 01:51:55

Local clock offset: 1.805 ms

Remote clock offset: 2.677 ms

Below is generated by plot.py at 2018-12-20 03:44:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 86.093 ms

Loss rate: 20.90%

-- Flow 1:

Average throughput: 53.79 Mbit/s

95th percentile per-packet one-way delay: 89.835 ms

Loss rate: 18.60%

-- Flow 2:

Average throughput: 14.75 Mbit/s

95th percentile per-packet one-way delay: 61.781 ms

Loss rate: 23.91%

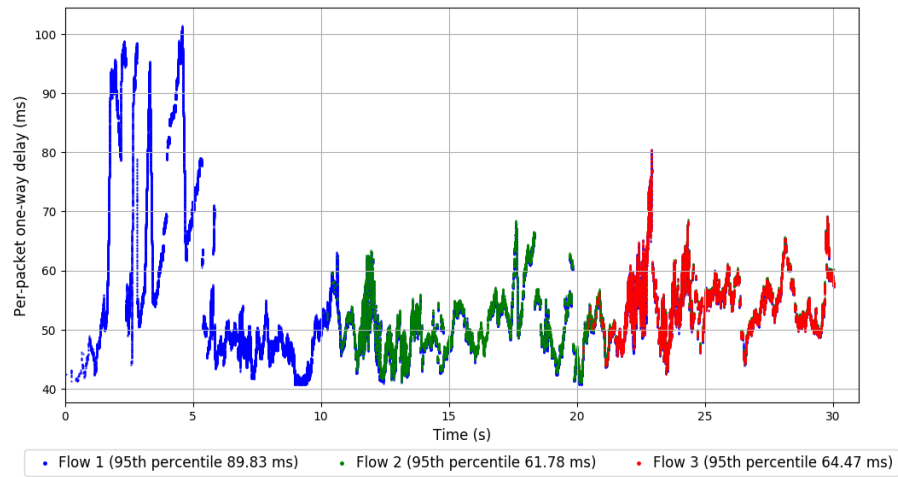
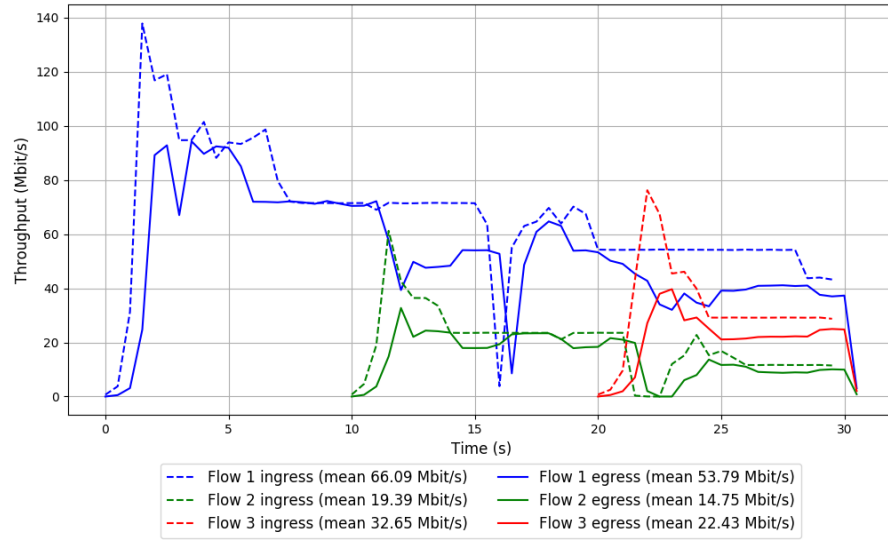
-- Flow 3:

Average throughput: 22.43 Mbit/s

95th percentile per-packet one-way delay: 64.465 ms

Loss rate: 31.30%

Run 1: Report of TCP BBR — Data Link

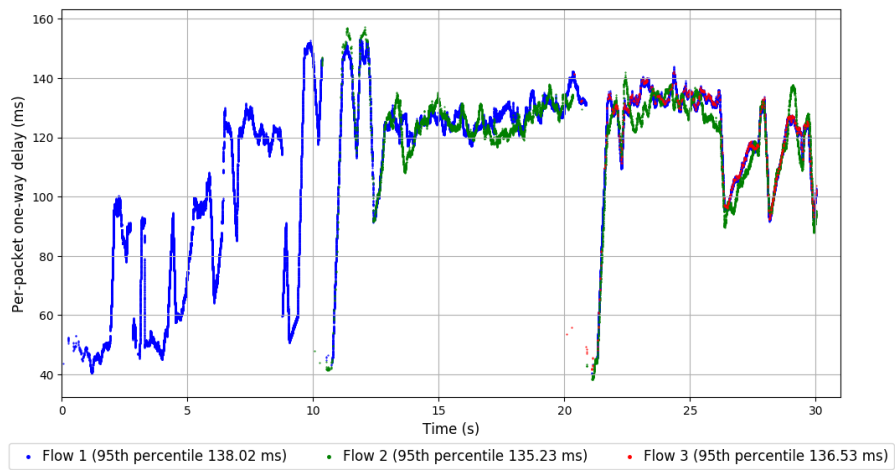
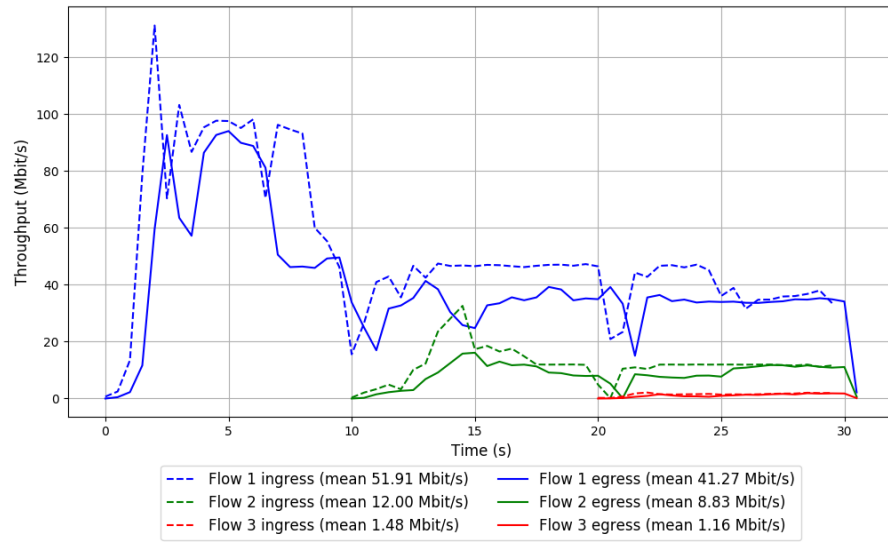


Run 2: Statistics of TCP BBR

Start at: 2018-12-20 02:16:22
End at: 2018-12-20 02:16:52
Local clock offset: -0.051 ms
Remote clock offset: 35.908 ms

Below is generated by plot.py at 2018-12-20 03:44:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.54 Mbit/s
95th percentile per-packet one-way delay: 137.536 ms
Loss rate: 21.28%
-- Flow 1:
Average throughput: 41.27 Mbit/s
95th percentile per-packet one-way delay: 138.024 ms
Loss rate: 20.49%
-- Flow 2:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 135.232 ms
Loss rate: 26.45%
-- Flow 3:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 136.526 ms
Loss rate: 21.61%

Run 2: Report of TCP BBR — Data Link

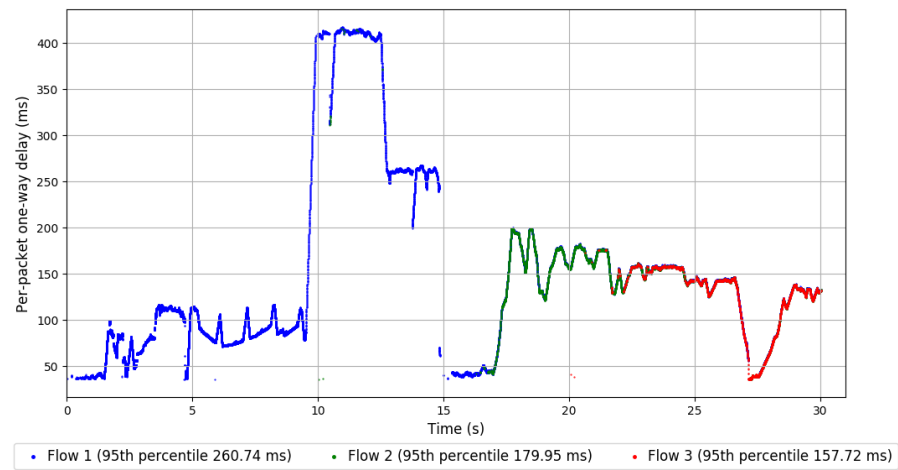
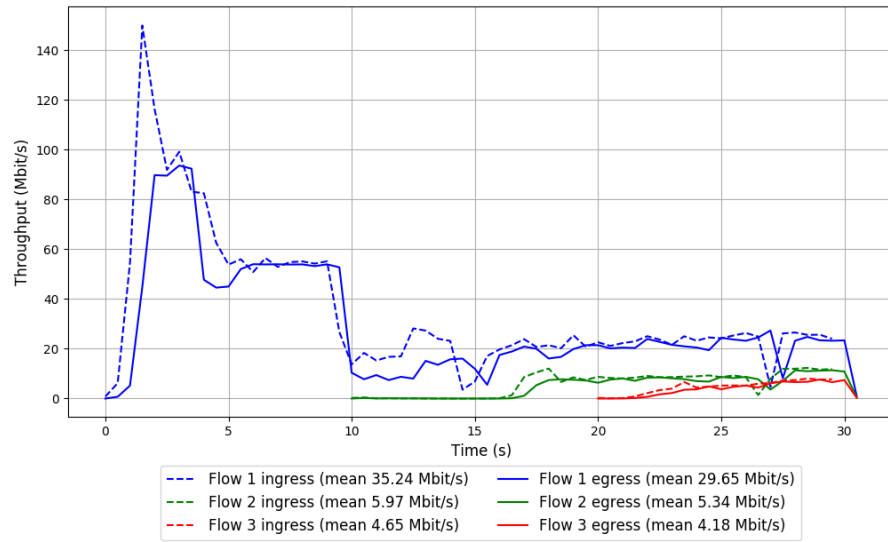


Run 3: Statistics of TCP BBR

Start at: 2018-12-20 02:41:07
End at: 2018-12-20 02:41:37
Local clock offset: 5.726 ms
Remote clock offset: 83.724 ms

Below is generated by plot.py at 2018-12-20 03:44:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.59 Mbit/s
95th percentile per-packet one-way delay: 256.867 ms
Loss rate: 15.15%
-- Flow 1:
Average throughput: 29.65 Mbit/s
95th percentile per-packet one-way delay: 260.736 ms
Loss rate: 15.87%
-- Flow 2:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 179.950 ms
Loss rate: 10.66%
-- Flow 3:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 157.720 ms
Loss rate: 10.22%

Run 3: Report of TCP BBR — Data Link

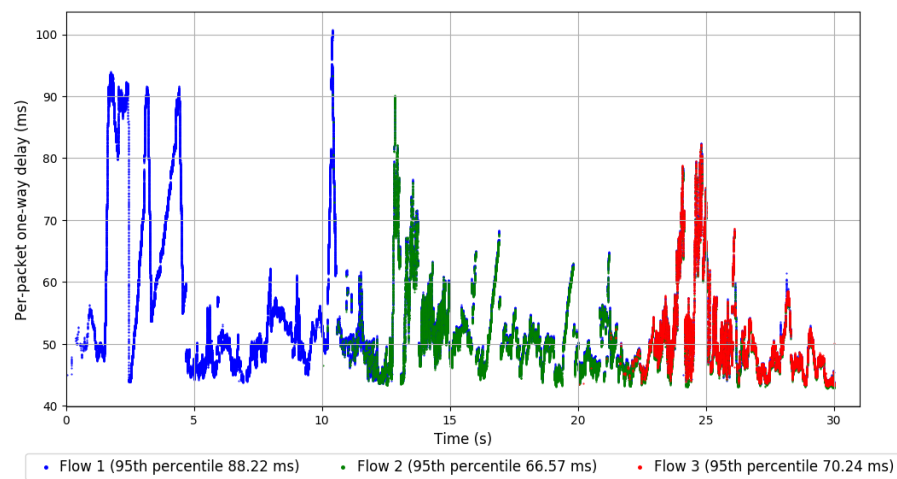
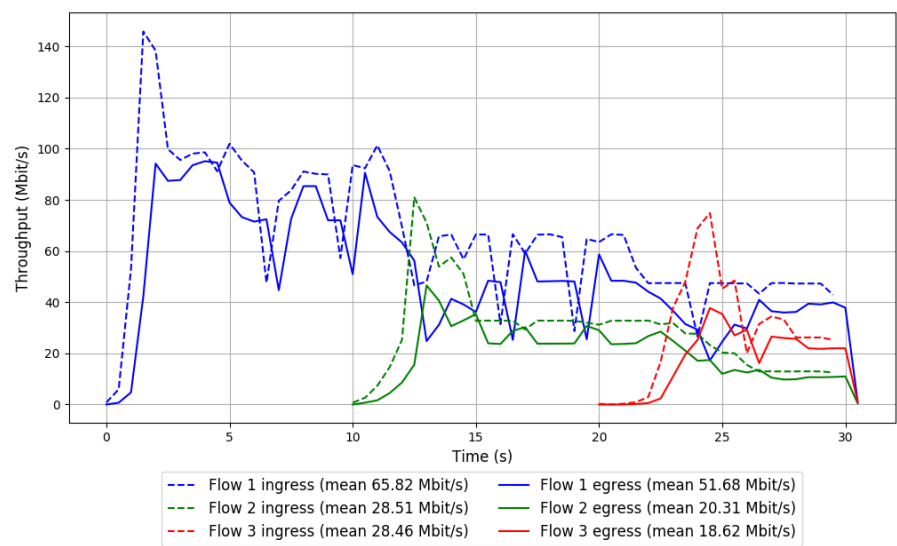


Run 4: Statistics of TCP BBR

Start at: 2018-12-20 03:05:18
End at: 2018-12-20 03:05:48
Local clock offset: 14.922 ms
Remote clock offset: 107.76 ms

Below is generated by plot.py at 2018-12-20 03:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.39 Mbit/s
95th percentile per-packet one-way delay: 83.188 ms
Loss rate: 24.28%
-- Flow 1:
Average throughput: 51.68 Mbit/s
95th percentile per-packet one-way delay: 88.219 ms
Loss rate: 21.50%
-- Flow 2:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 66.573 ms
Loss rate: 28.78%
-- Flow 3:
Average throughput: 18.62 Mbit/s
95th percentile per-packet one-way delay: 70.237 ms
Loss rate: 34.59%

Run 4: Report of TCP BBR — Data Link

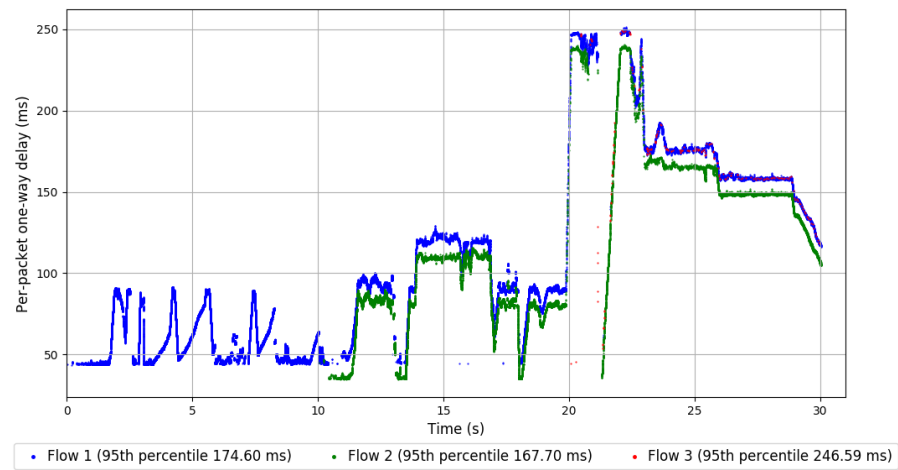
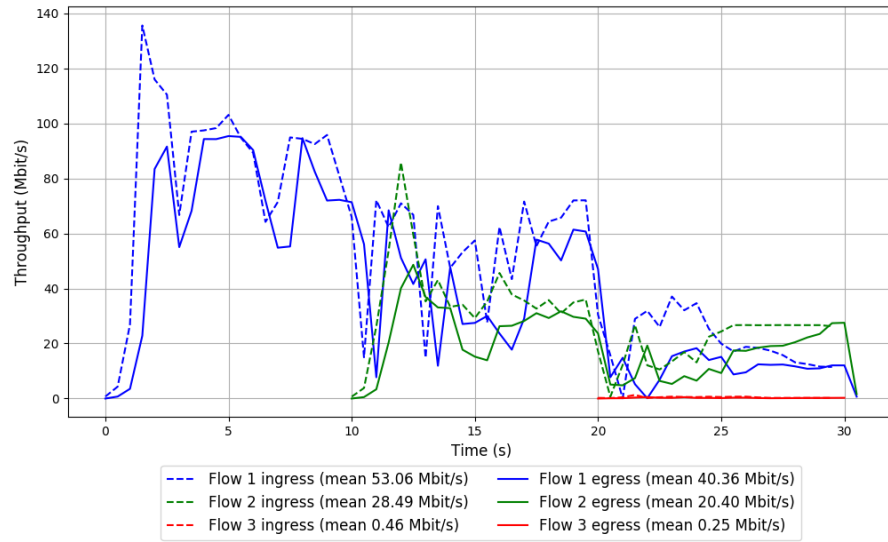


Run 5: Statistics of TCP BBR

Start at: 2018-12-20 03:30:18
End at: 2018-12-20 03:30:48
Local clock offset: 9.438 ms
Remote clock offset: 15.643 ms

Below is generated by plot.py at 2018-12-20 03:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.03 Mbit/s
95th percentile per-packet one-way delay: 173.383 ms
Loss rate: 25.17%
-- Flow 1:
Average throughput: 40.36 Mbit/s
95th percentile per-packet one-way delay: 174.597 ms
Loss rate: 23.95%
-- Flow 2:
Average throughput: 20.40 Mbit/s
95th percentile per-packet one-way delay: 167.697 ms
Loss rate: 28.42%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 246.590 ms
Loss rate: 44.58%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-12-20 01:43:34

End at: 2018-12-20 01:44:04

Local clock offset: 5.972 ms

Remote clock offset: 3.418 ms

Below is generated by plot.py at 2018-12-20 03:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 9.62 Mbit/s

95th percentile per-packet one-way delay: 60.121 ms

Loss rate: 5.71%

-- Flow 1:

Average throughput: 5.25 Mbit/s

95th percentile per-packet one-way delay: 59.859 ms

Loss rate: 3.19%

-- Flow 2:

Average throughput: 4.61 Mbit/s

95th percentile per-packet one-way delay: 58.776 ms

Loss rate: 6.99%

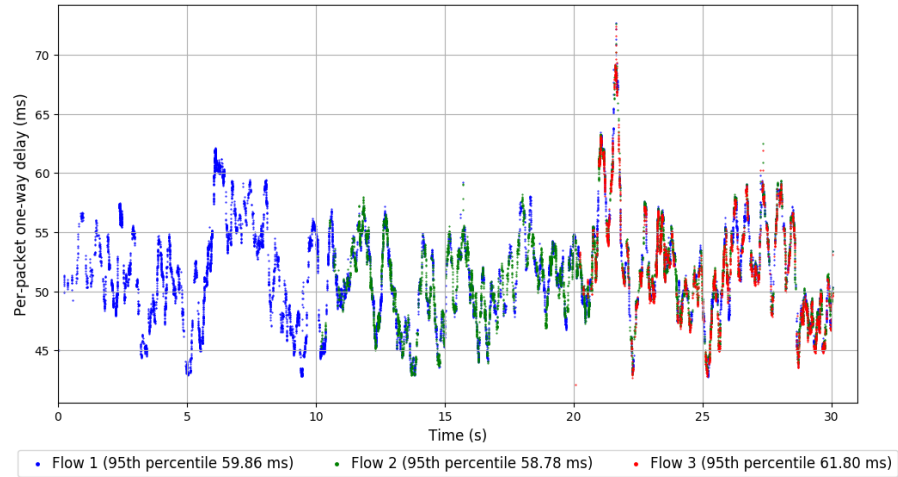
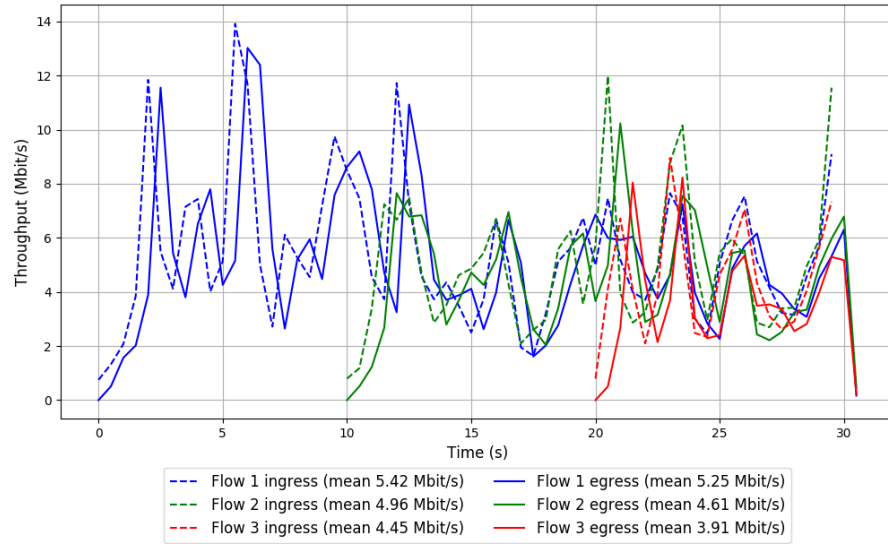
-- Flow 3:

Average throughput: 3.91 Mbit/s

95th percentile per-packet one-way delay: 61.797 ms

Loss rate: 12.10%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-12-20 02:08:23

End at: 2018-12-20 02:08:53

Local clock offset: -1.275 ms

Remote clock offset: 8.307 ms

Below is generated by plot.py at 2018-12-20 03:44:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 7.29 Mbit/s

95th percentile per-packet one-way delay: 65.138 ms

Loss rate: 5.55%

-- Flow 1:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 65.462 ms

Loss rate: 3.96%

-- Flow 2:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 64.819 ms

Loss rate: 5.71%

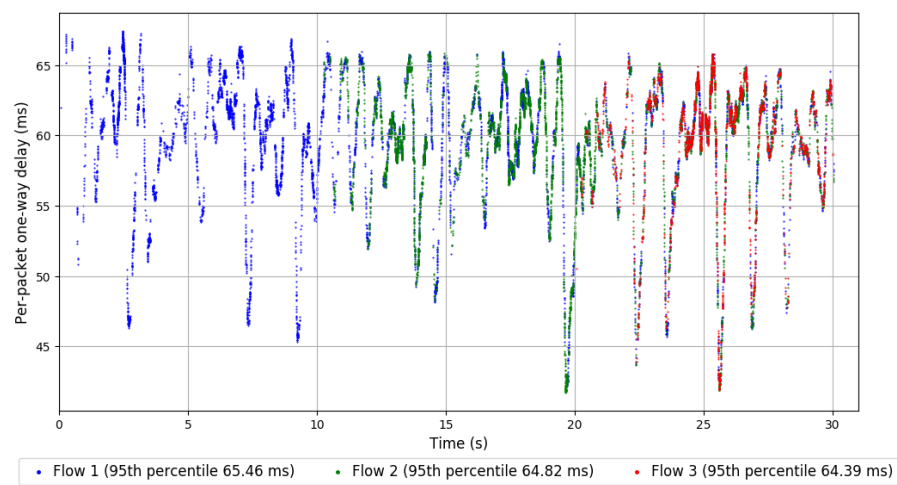
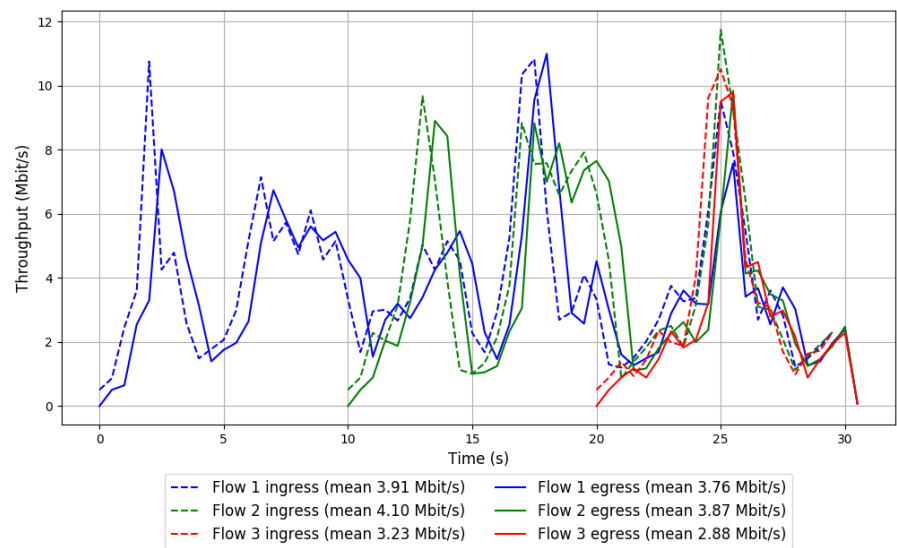
-- Flow 3:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 64.393 ms

Loss rate: 10.95%

Run 2: Report of Copa — Data Link

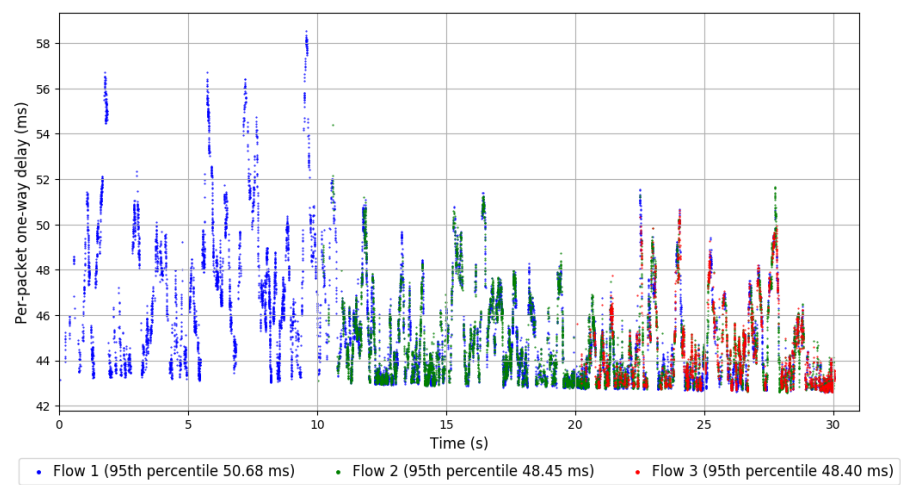
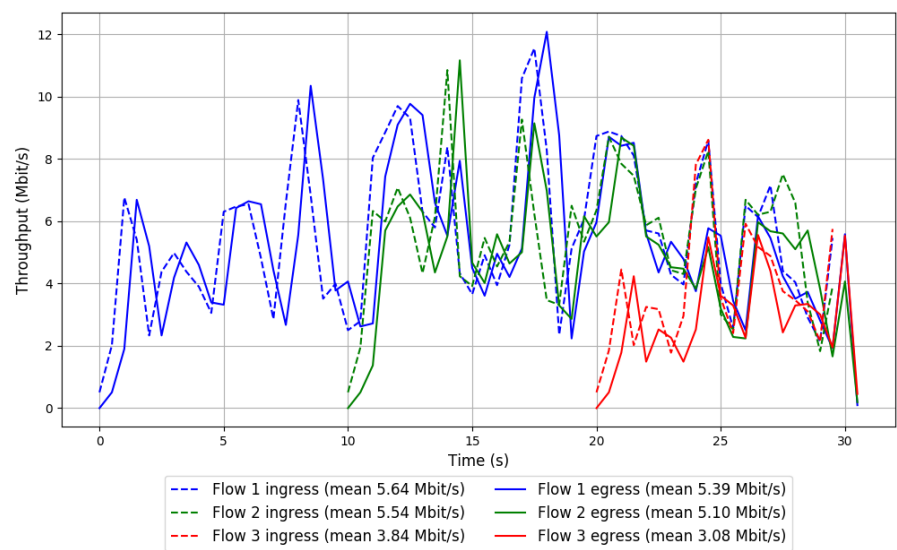


Run 3: Statistics of Copa

Start at: 2018-12-20 02:33:21
End at: 2018-12-20 02:33:51
Local clock offset: -1.208 ms
Remote clock offset: 73.523 ms

Below is generated by plot.py at 2018-12-20 03:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 49.808 ms
Loss rate: 7.58%
-- Flow 1:
Average throughput: 5.39 Mbit/s
95th percentile per-packet one-way delay: 50.684 ms
Loss rate: 4.54%
-- Flow 2:
Average throughput: 5.10 Mbit/s
95th percentile per-packet one-way delay: 48.449 ms
Loss rate: 8.04%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 48.403 ms
Loss rate: 19.74%

Run 3: Report of Copa — Data Link

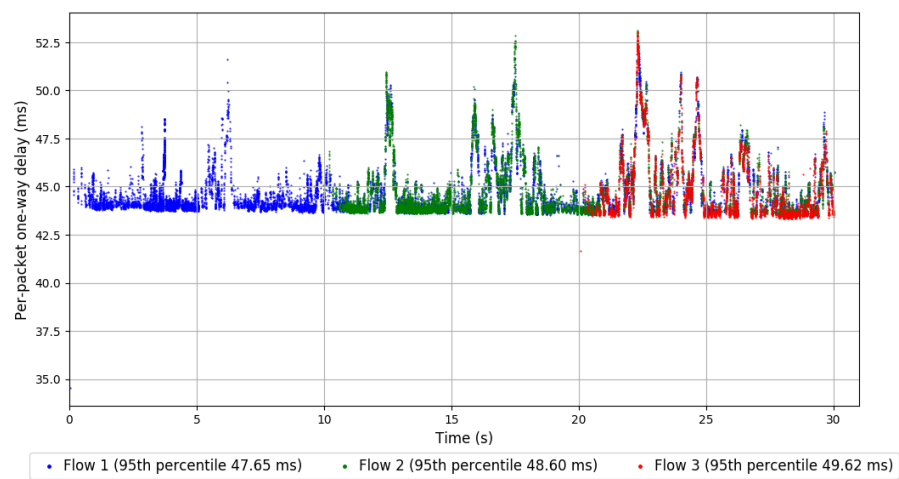
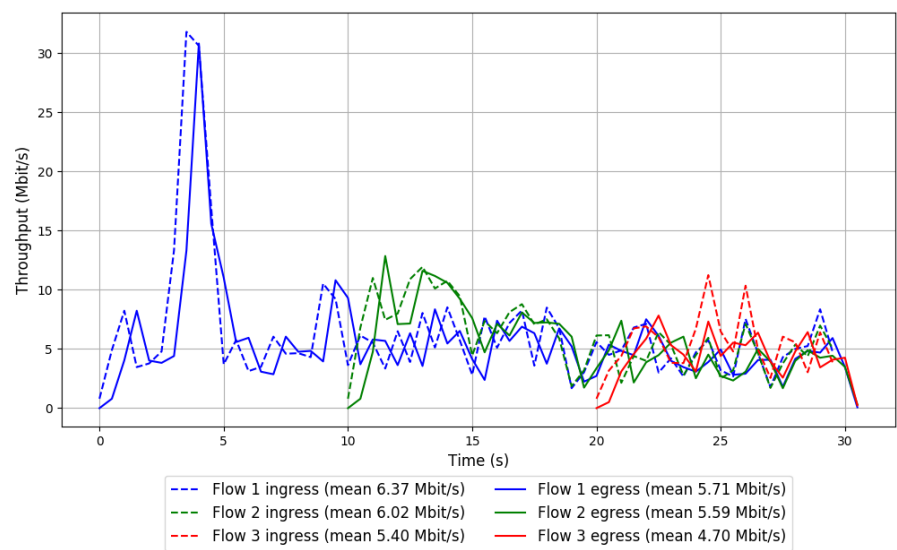


Run 4: Statistics of Copa

Start at: 2018-12-20 02:57:35
End at: 2018-12-20 02:58:05
Local clock offset: 13.667 ms
Remote clock offset: 99.914 ms

Below is generated by plot.py at 2018-12-20 03:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 48.304 ms
Loss rate: 9.70%
-- Flow 1:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 47.654 ms
Loss rate: 10.37%
-- Flow 2:
Average throughput: 5.59 Mbit/s
95th percentile per-packet one-way delay: 48.603 ms
Loss rate: 7.12%
-- Flow 3:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 49.623 ms
Loss rate: 13.08%

Run 4: Report of Copa — Data Link

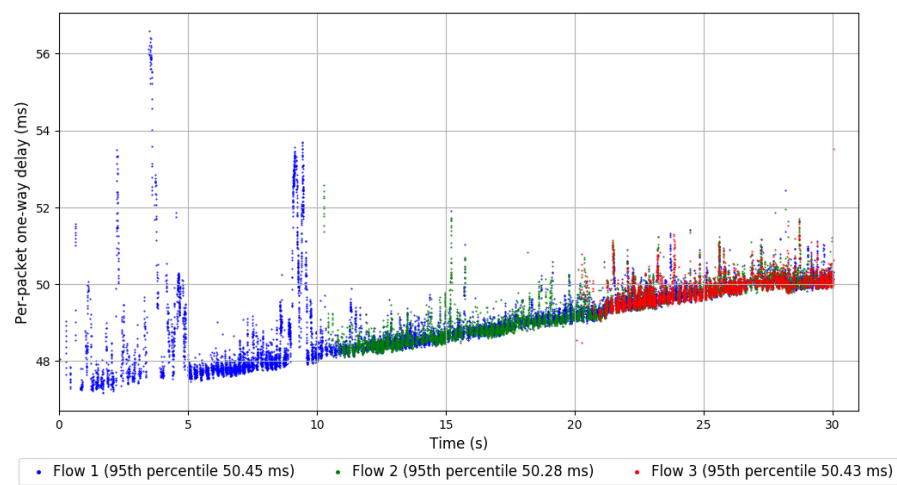
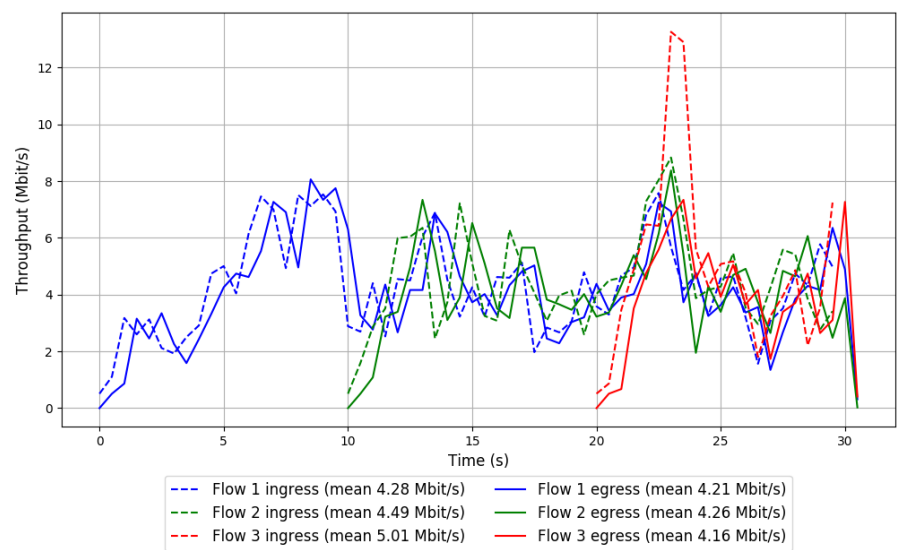


Run 5: Statistics of Copa

Start at: 2018-12-20 03:22:16
End at: 2018-12-20 03:22:46
Local clock offset: 9.844 ms
Remote clock offset: 53.244 ms

Below is generated by plot.py at 2018-12-20 03:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 50.376 ms
Loss rate: 5.70%
-- Flow 1:
Average throughput: 4.21 Mbit/s
95th percentile per-packet one-way delay: 50.447 ms
Loss rate: 1.76%
-- Flow 2:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 50.280 ms
Loss rate: 5.07%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 50.432 ms
Loss rate: 16.99%

Run 5: Report of Copa — Data Link

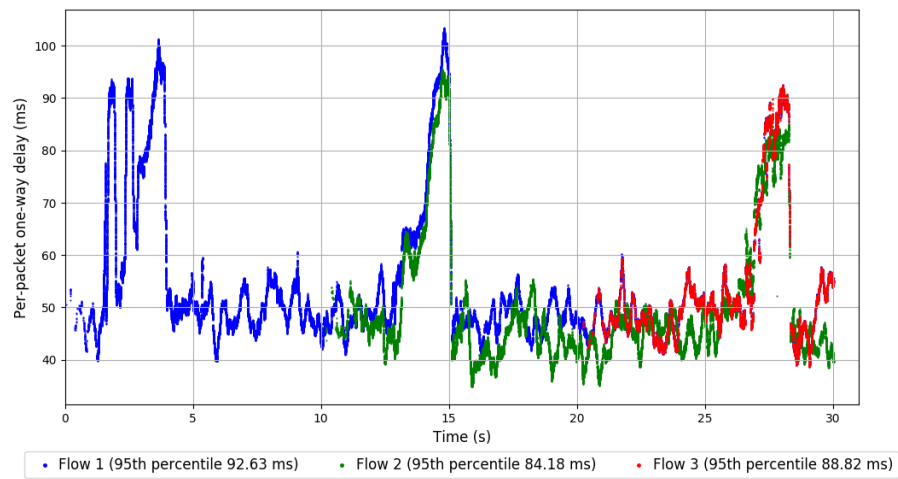
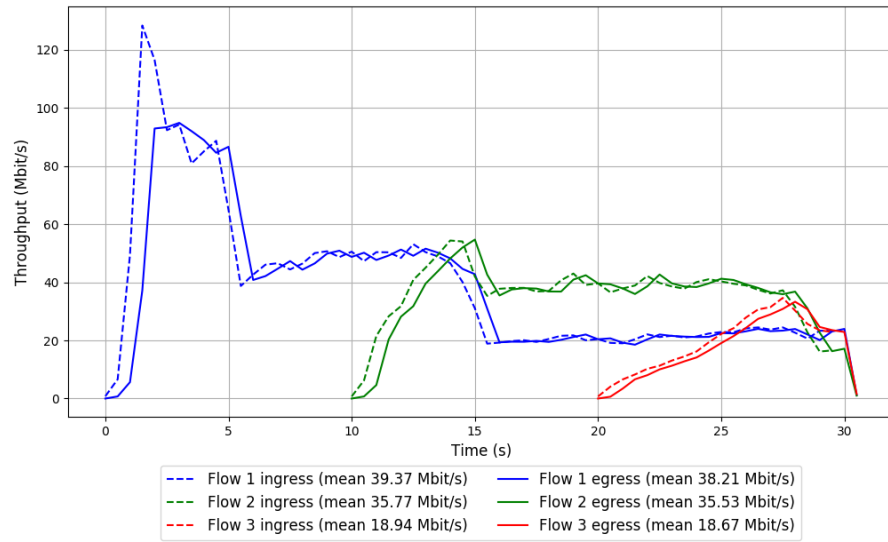


Run 1: Statistics of TCP Cubic

Start at: 2018-12-20 01:37:09
End at: 2018-12-20 01:37:39
Local clock offset: 11.323 ms
Remote clock offset: -6.809 ms

Below is generated by plot.py at 2018-12-20 03:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.09 Mbit/s
95th percentile per-packet one-way delay: 90.949 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 38.21 Mbit/s
95th percentile per-packet one-way delay: 92.632 ms
Loss rate: 2.98%
-- Flow 2:
Average throughput: 35.53 Mbit/s
95th percentile per-packet one-way delay: 84.177 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 18.67 Mbit/s
95th percentile per-packet one-way delay: 88.818 ms
Loss rate: 1.44%

Run 1: Report of TCP Cubic — Data Link

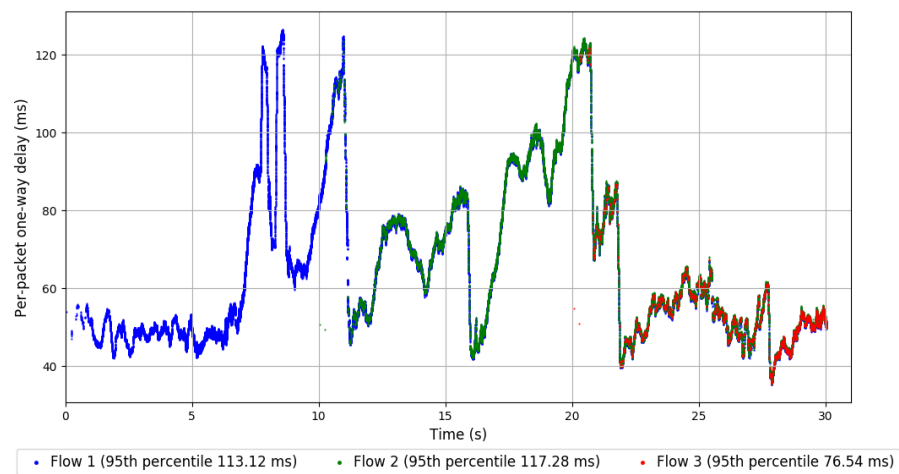
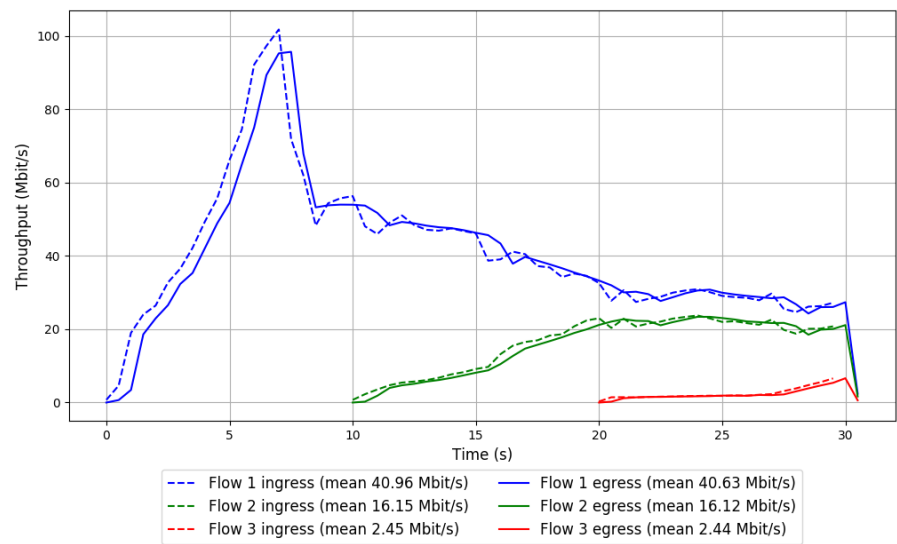


Run 2: Statistics of TCP Cubic

Start at: 2018-12-20 02:01:54
End at: 2018-12-20 02:02:24
Local clock offset: -1.446 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-12-20 03:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.18 Mbit/s
95th percentile per-packet one-way delay: 113.485 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 40.63 Mbit/s
95th percentile per-packet one-way delay: 113.117 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 16.12 Mbit/s
95th percentile per-packet one-way delay: 117.281 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 76.541 ms
Loss rate: 0.15%

Run 2: Report of TCP Cubic — Data Link

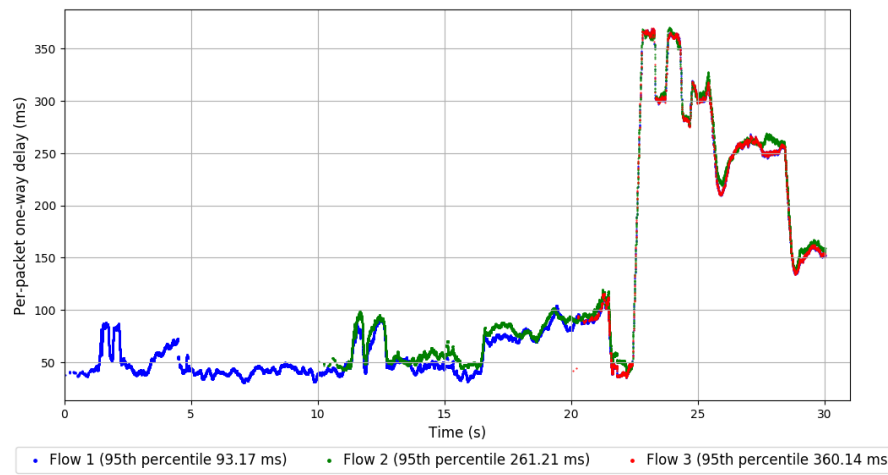
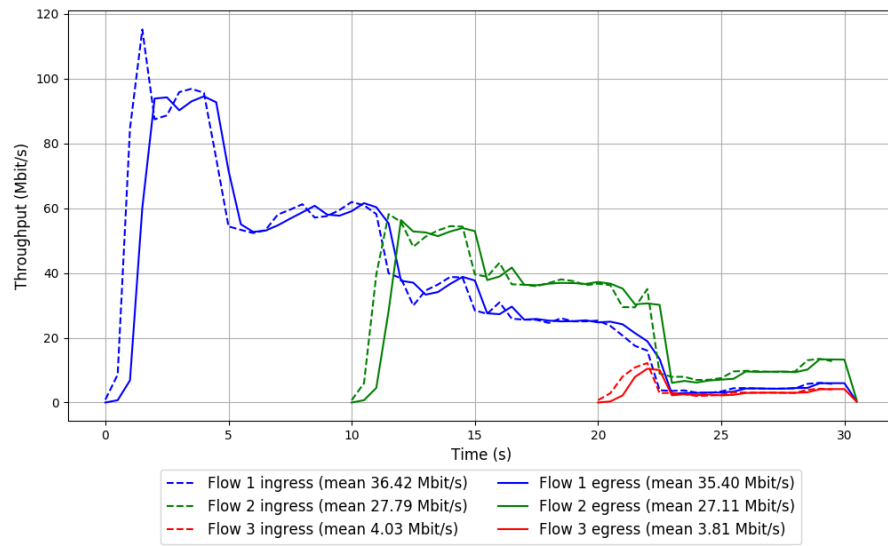


Run 3: Statistics of TCP Cubic

Start at: 2018-12-20 02:27:00
End at: 2018-12-20 02:27:30
Local clock offset: -0.703 ms
Remote clock offset: 61.723 ms

Below is generated by plot.py at 2018-12-20 03:44:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.71 Mbit/s
95th percentile per-packet one-way delay: 223.032 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 35.40 Mbit/s
95th percentile per-packet one-way delay: 93.175 ms
Loss rate: 2.80%
-- Flow 2:
Average throughput: 27.11 Mbit/s
95th percentile per-packet one-way delay: 261.207 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 360.139 ms
Loss rate: 5.44%

Run 3: Report of TCP Cubic — Data Link

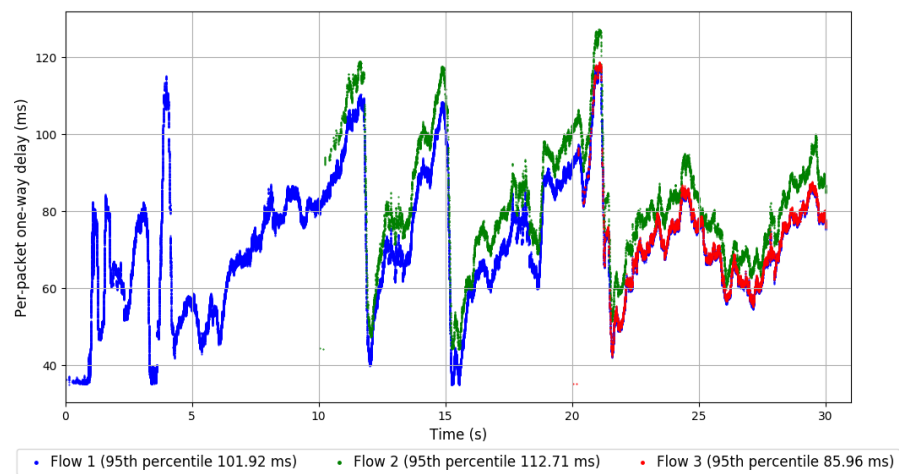
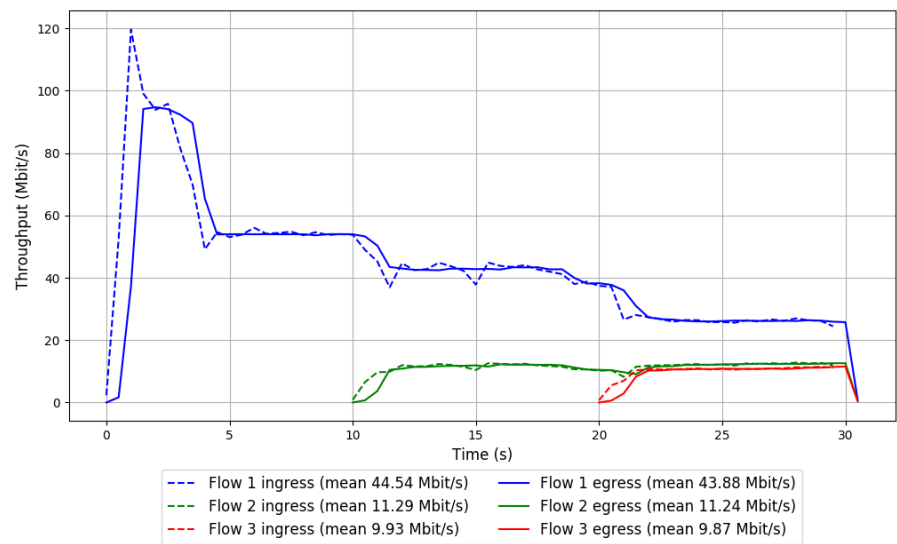


Run 4: Statistics of TCP Cubic

Start at: 2018-12-20 02:51:22
End at: 2018-12-20 02:51:52
Local clock offset: 11.92 ms
Remote clock offset: 94.255 ms

Below is generated by plot.py at 2018-12-20 03:44:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.65 Mbit/s
95th percentile per-packet one-way delay: 103.326 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 43.88 Mbit/s
95th percentile per-packet one-way delay: 101.921 ms
Loss rate: 1.46%
-- Flow 2:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 112.714 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 9.87 Mbit/s
95th percentile per-packet one-way delay: 85.956 ms
Loss rate: 0.63%

Run 4: Report of TCP Cubic — Data Link

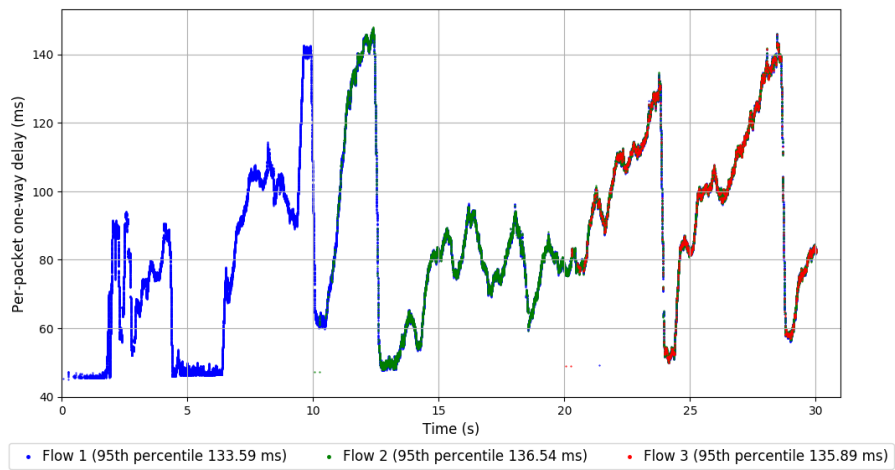
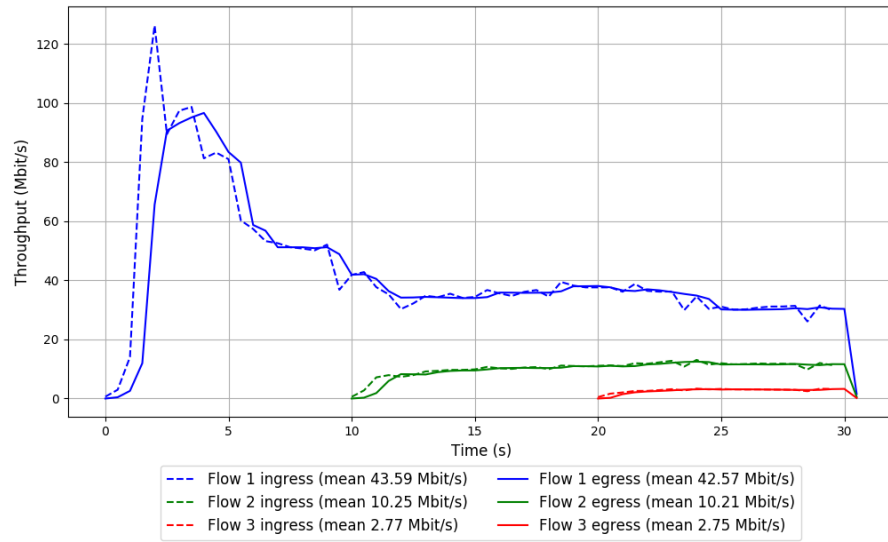


Run 5: Statistics of TCP Cubic

Start at: 2018-12-20 03:15:46
End at: 2018-12-20 03:16:16
Local clock offset: 11.104 ms
Remote clock offset: 109.323 ms

Below is generated by plot.py at 2018-12-20 03:44:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.28 Mbit/s
95th percentile per-packet one-way delay: 134.298 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 133.589 ms
Loss rate: 2.35%
-- Flow 2:
Average throughput: 10.21 Mbit/s
95th percentile per-packet one-way delay: 136.536 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 135.894 ms
Loss rate: 0.70%

Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-12-20 01:56:36

End at: 2018-12-20 01:57:06

Local clock offset: -0.001 ms

Remote clock offset: 2.13 ms

Below is generated by plot.py at 2018-12-20 03:45:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 178.356 ms

Loss rate: 14.90%

-- Flow 1:

Average throughput: 46.80 Mbit/s

95th percentile per-packet one-way delay: 177.388 ms

Loss rate: 12.70%

-- Flow 2:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 178.528 ms

Loss rate: 16.22%

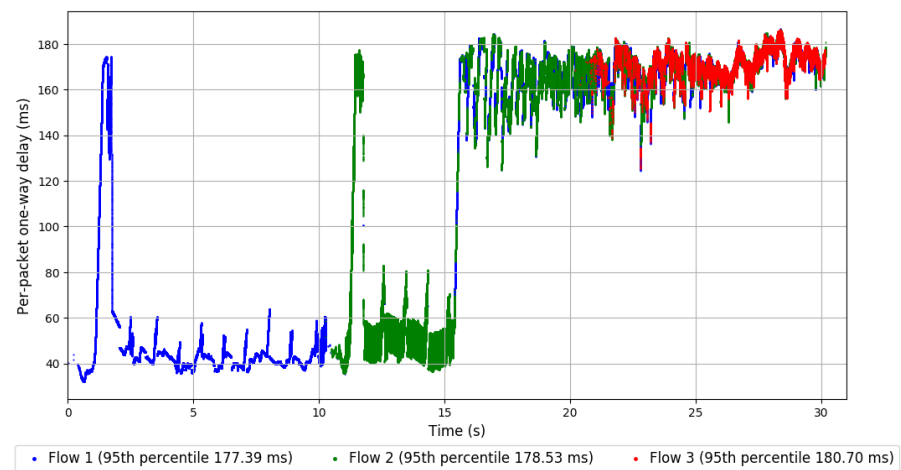
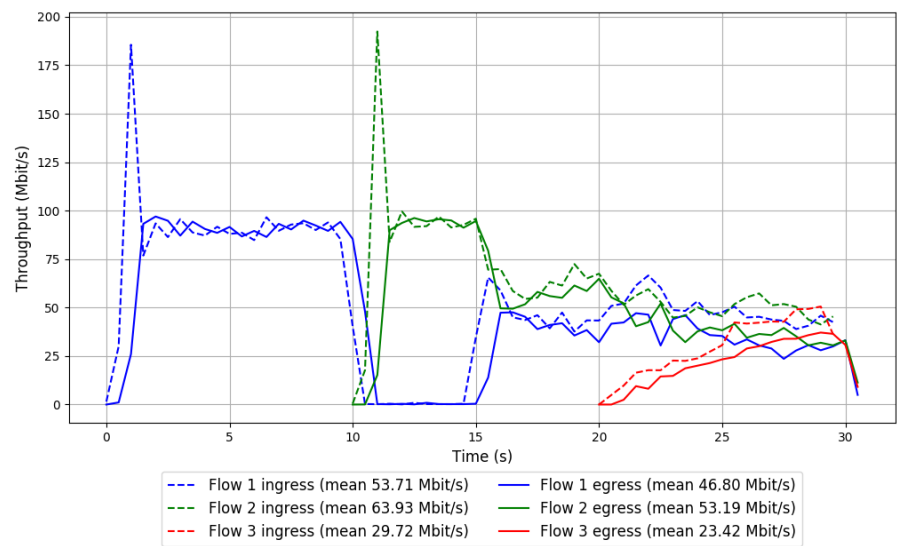
-- Flow 3:

Average throughput: 23.42 Mbit/s

95th percentile per-packet one-way delay: 180.698 ms

Loss rate: 21.15%

Run 1: Report of FillP — Data Link

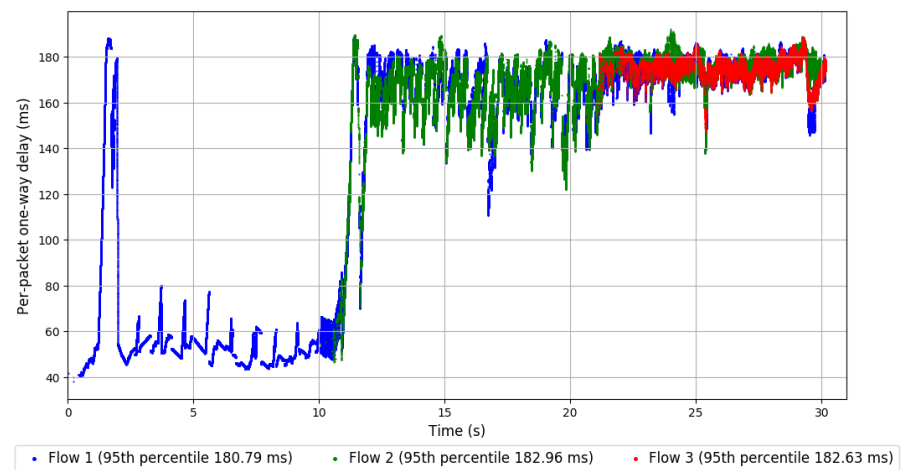
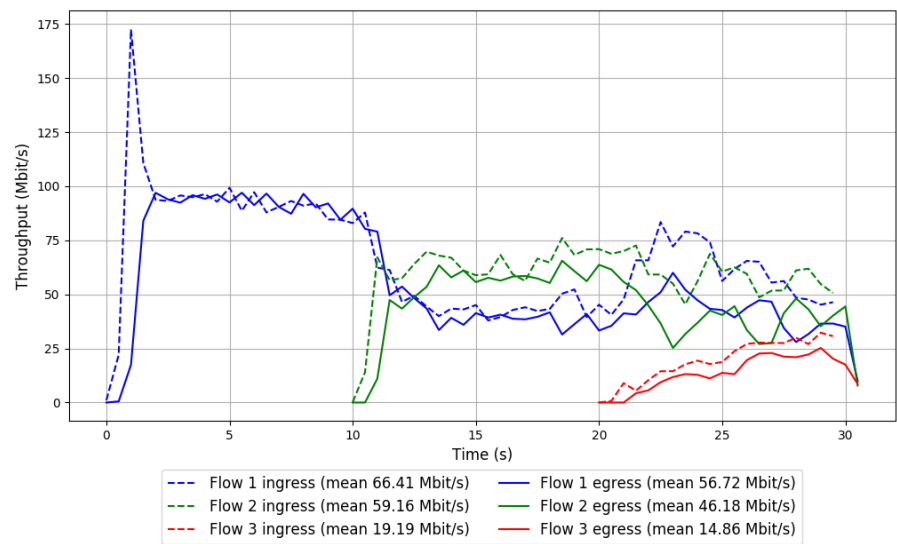


Run 2: Statistics of FillP

Start at: 2018-12-20 02:21:42
End at: 2018-12-20 02:22:12
Local clock offset: 0.029 ms
Remote clock offset: 50.421 ms

Below is generated by plot.py at 2018-12-20 03:45:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.35 Mbit/s
95th percentile per-packet one-way delay: 181.894 ms
Loss rate: 17.28%
-- Flow 1:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 180.791 ms
Loss rate: 14.23%
-- Flow 2:
Average throughput: 46.18 Mbit/s
95th percentile per-packet one-way delay: 182.962 ms
Loss rate: 21.60%
-- Flow 3:
Average throughput: 14.86 Mbit/s
95th percentile per-packet one-way delay: 182.631 ms
Loss rate: 22.36%

Run 2: Report of FillP — Data Link

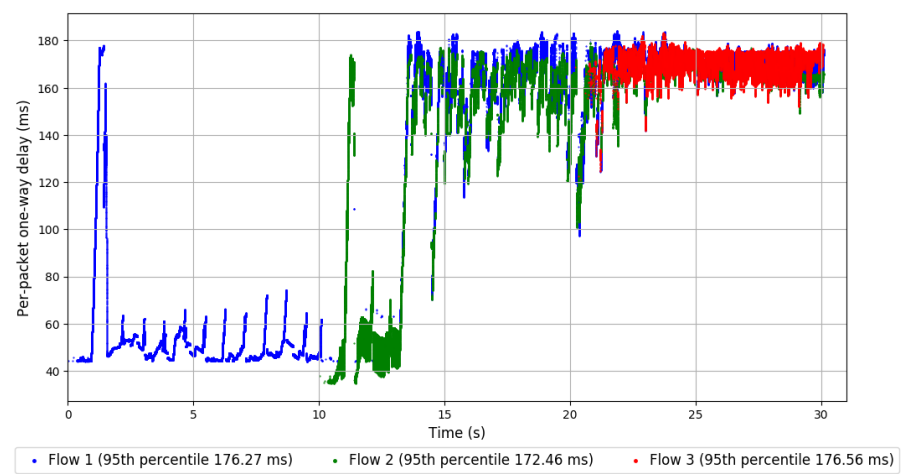
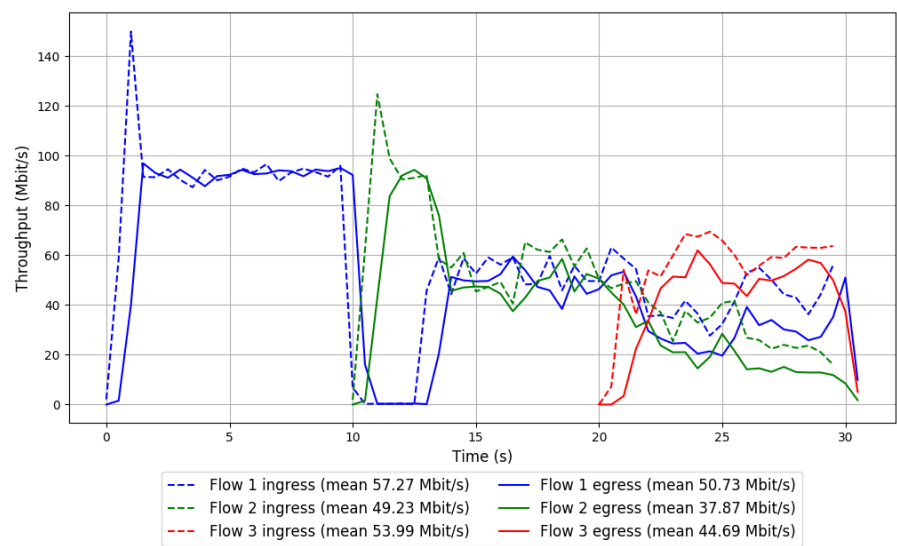


Run 3: Statistics of FillP

Start at: 2018-12-20 02:46:13
End at: 2018-12-20 02:46:43
Local clock offset: 10.068 ms
Remote clock offset: 89.193 ms

Below is generated by plot.py at 2018-12-20 03:45:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 175.737 ms
Loss rate: 15.70%
-- Flow 1:
Average throughput: 50.73 Mbit/s
95th percentile per-packet one-way delay: 176.272 ms
Loss rate: 11.11%
-- Flow 2:
Average throughput: 37.87 Mbit/s
95th percentile per-packet one-way delay: 172.463 ms
Loss rate: 22.57%
-- Flow 3:
Average throughput: 44.69 Mbit/s
95th percentile per-packet one-way delay: 176.557 ms
Loss rate: 17.83%

Run 3: Report of FillP — Data Link

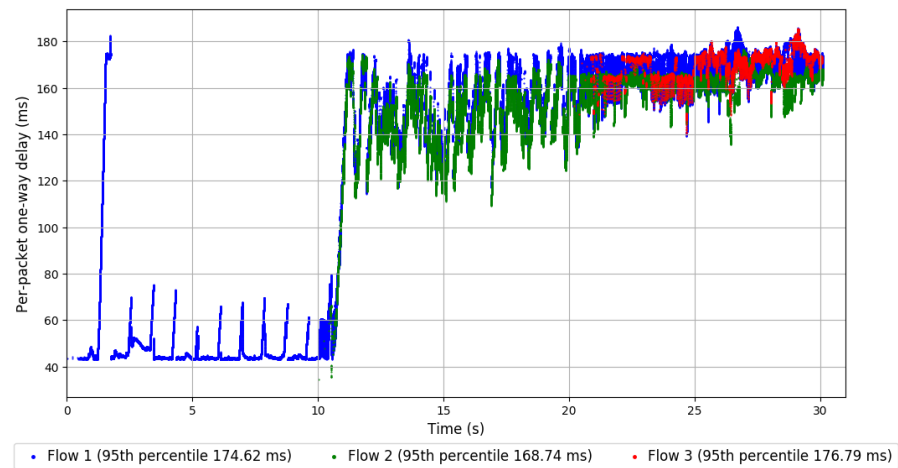
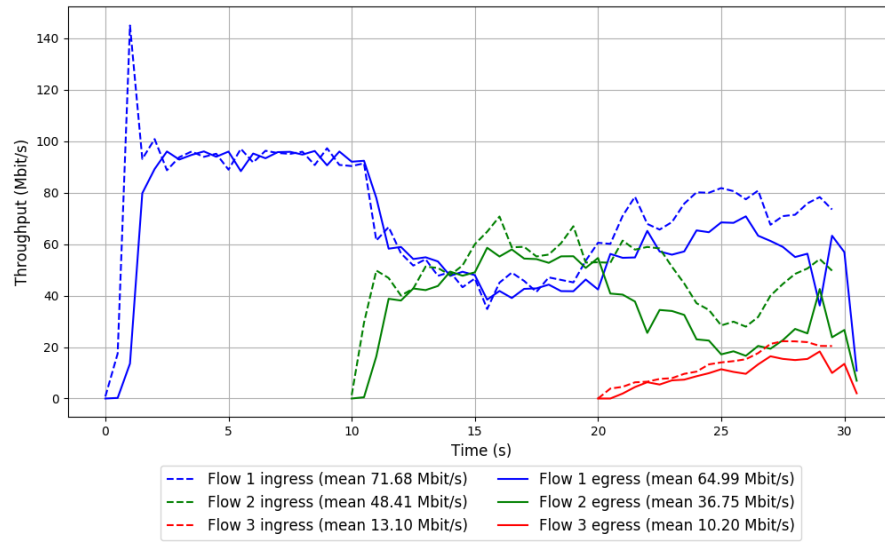


Run 4: Statistics of FillP

Start at: 2018-12-20 03:10:27
End at: 2018-12-20 03:10:57
Local clock offset: 12.427 ms
Remote clock offset: 113.236 ms

Below is generated by plot.py at 2018-12-20 03:46:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.83 Mbit/s
95th percentile per-packet one-way delay: 174.231 ms
Loss rate: 13.94%
-- Flow 1:
Average throughput: 64.99 Mbit/s
95th percentile per-packet one-way delay: 174.621 ms
Loss rate: 9.07%
-- Flow 2:
Average throughput: 36.75 Mbit/s
95th percentile per-packet one-way delay: 168.736 ms
Loss rate: 23.62%
-- Flow 3:
Average throughput: 10.20 Mbit/s
95th percentile per-packet one-way delay: 176.788 ms
Loss rate: 22.48%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

/home/ubuntu/pantheon/data/2018-12-20T01-33-AWS-Korea-to-China-5-runs-3-flows/fillp_stats_ru

Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 1: Statistics of FillP-Sheep

Start at: 2018-12-20 01:47:23

End at: 2018-12-20 01:47:53

Local clock offset: 3.678 ms

Remote clock offset: 4.601 ms

Below is generated by plot.py at 2018-12-20 03:46:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.71 Mbit/s

95th percentile per-packet one-way delay: 160.301 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 168.148 ms

Loss rate: 4.60%

-- Flow 2:

Average throughput: 64.81 Mbit/s

95th percentile per-packet one-way delay: 160.471 ms

Loss rate: 1.88%

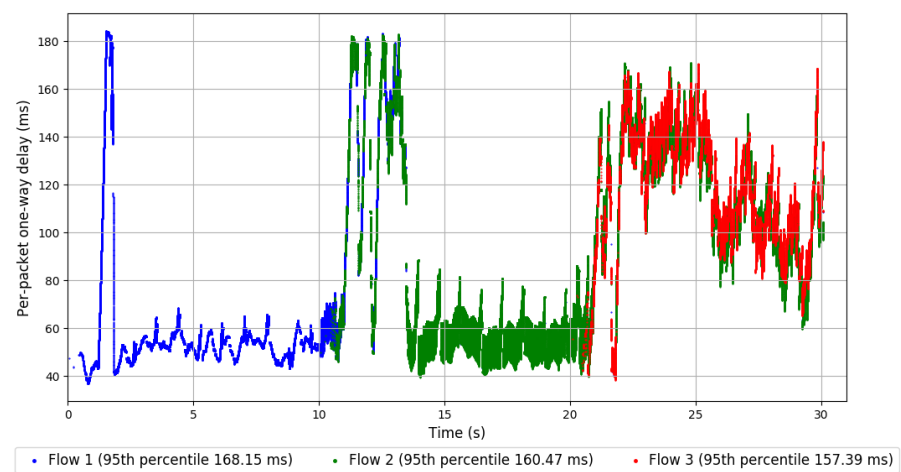
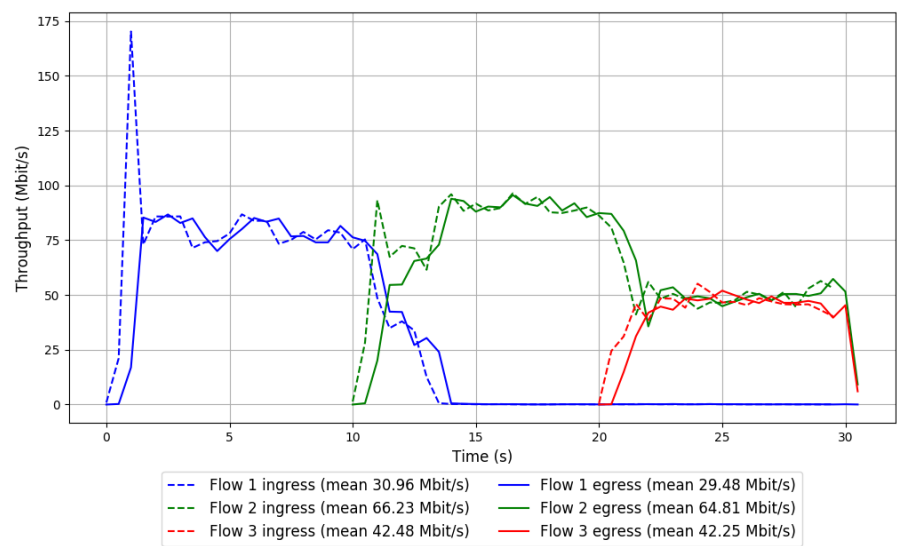
-- Flow 3:

Average throughput: 42.25 Mbit/s

95th percentile per-packet one-way delay: 157.386 ms

Loss rate: 0.00%

Run 1: Report of FillP-Sheep — Data Link

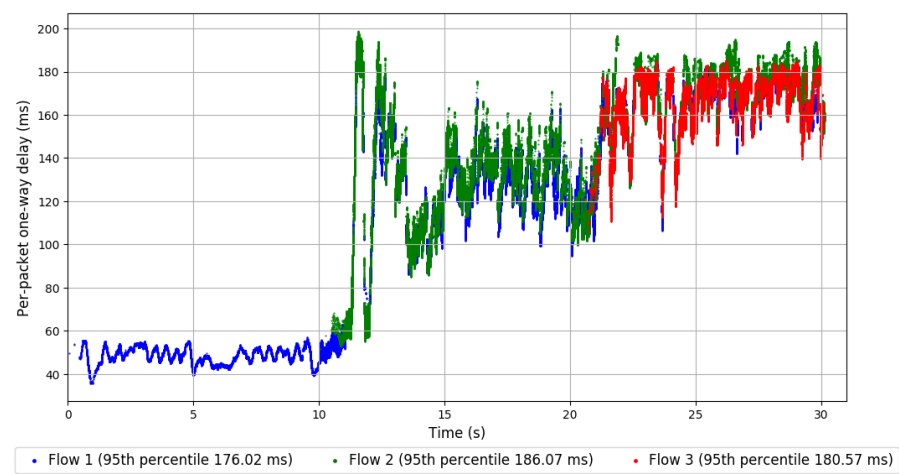
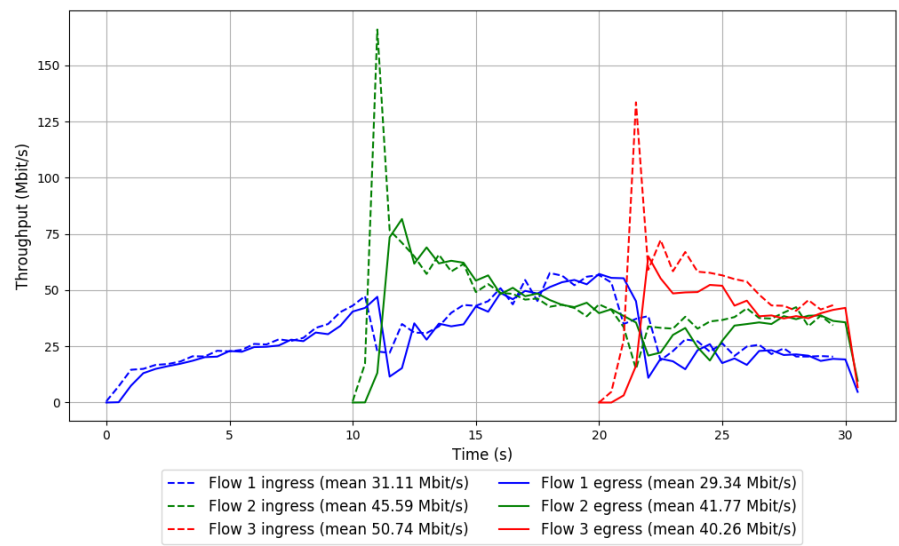


Run 2: Statistics of FillP-Sheep

Start at: 2018-12-20 02:12:18
End at: 2018-12-20 02:12:48
Local clock offset: -0.413 ms
Remote clock offset: 23.067 ms

Below is generated by plot.py at 2018-12-20 03:46:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.48 Mbit/s
95th percentile per-packet one-way delay: 181.388 ms
Loss rate: 9.69%
-- Flow 1:
Average throughput: 29.34 Mbit/s
95th percentile per-packet one-way delay: 176.021 ms
Loss rate: 5.45%
-- Flow 2:
Average throughput: 41.77 Mbit/s
95th percentile per-packet one-way delay: 186.066 ms
Loss rate: 7.89%
-- Flow 3:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 180.575 ms
Loss rate: 20.78%

Run 2: Report of FillP-Sheep — Data Link

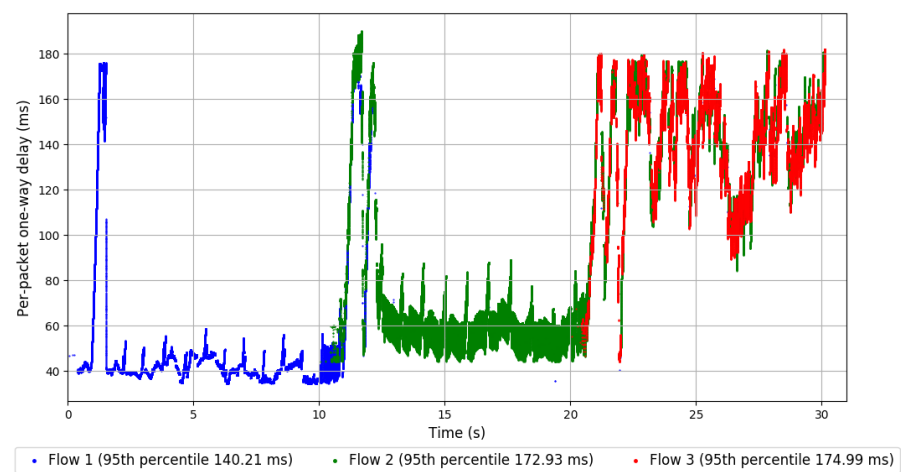
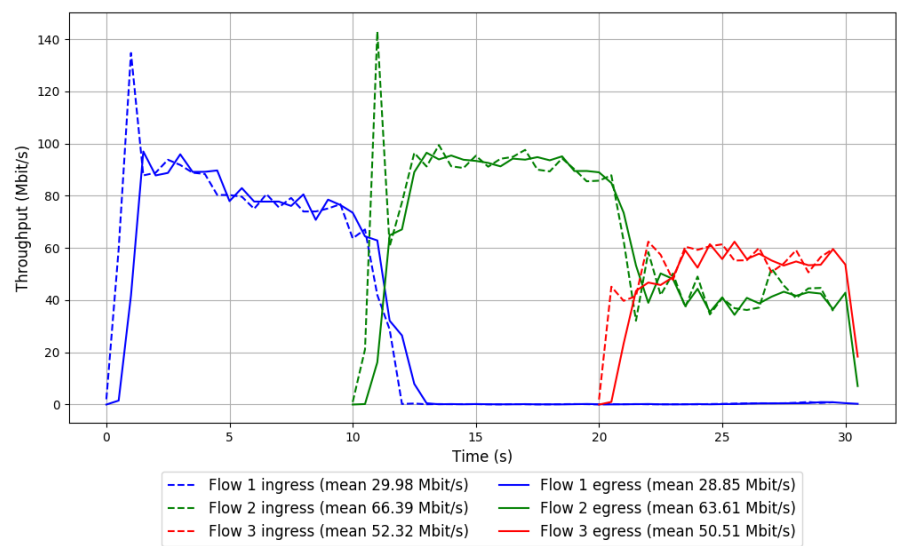


Run 3: Statistics of FillP-Sheep

Start at: 2018-12-20 02:37:10
End at: 2018-12-20 02:37:40
Local clock offset: 1.568 ms
Remote clock offset: 78.513 ms

Below is generated by plot.py at 2018-12-20 03:46:05
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.15 Mbit/s
95th percentile per-packet one-way delay: 171.564 ms
Loss rate: 3.31%
-- Flow 1:
Average throughput: 28.85 Mbit/s
95th percentile per-packet one-way delay: 140.206 ms
Loss rate: 3.52%
-- Flow 2:
Average throughput: 63.61 Mbit/s
95th percentile per-packet one-way delay: 172.926 ms
Loss rate: 3.60%
-- Flow 3:
Average throughput: 50.51 Mbit/s
95th percentile per-packet one-way delay: 174.994 ms
Loss rate: 2.24%

Run 3: Report of FillP-Sheep — Data Link

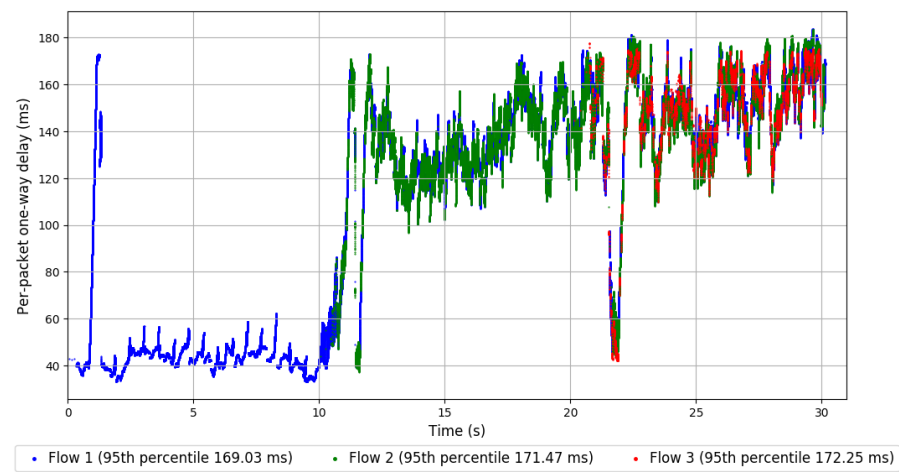
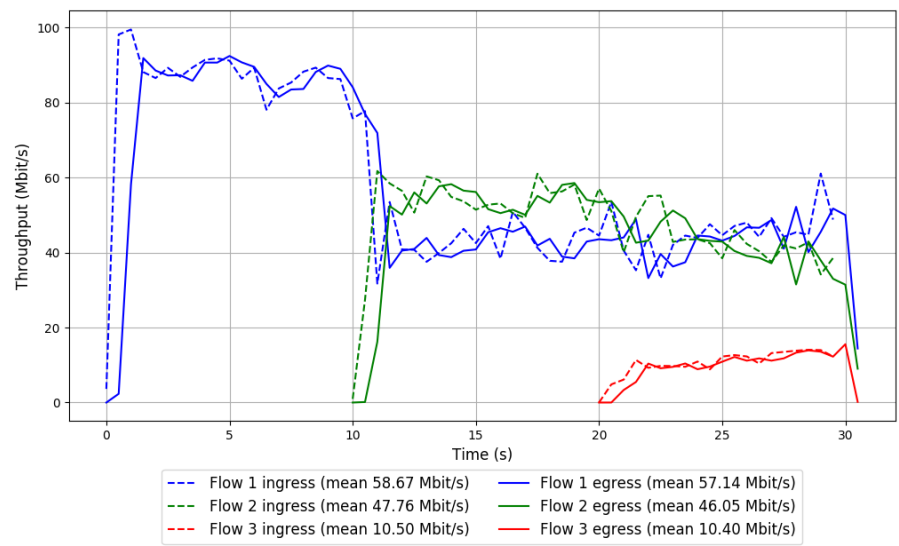


Run 4: Statistics of FillP-Sheep

Start at: 2018-12-20 03:01:20
End at: 2018-12-20 03:01:50
Local clock offset: 14.959 ms
Remote clock offset: 103.26 ms

```
# Below is generated by plot.py at 2018-12-20 03:46:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 170.377 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 57.14 Mbit/s
95th percentile per-packet one-way delay: 169.027 ms
Loss rate: 2.19%
-- Flow 2:
Average throughput: 46.05 Mbit/s
95th percentile per-packet one-way delay: 171.468 ms
Loss rate: 3.10%
-- Flow 3:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 172.246 ms
Loss rate: 2.14%
```

Run 4: Report of FillP-Sheep — Data Link

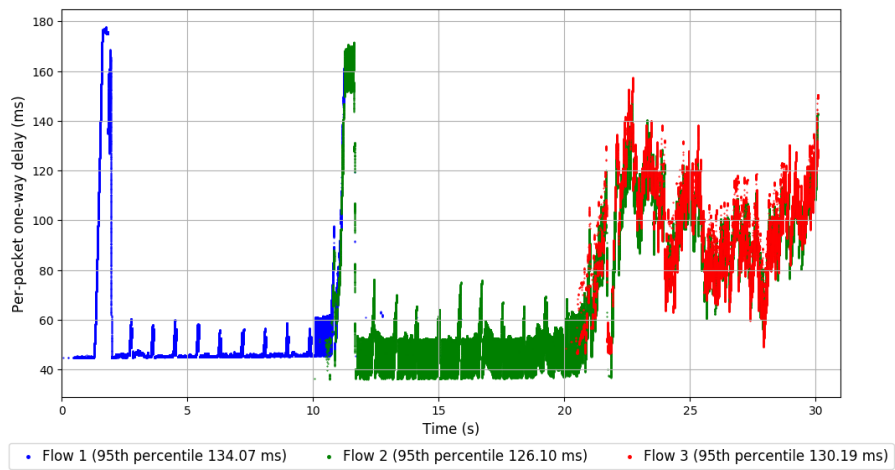
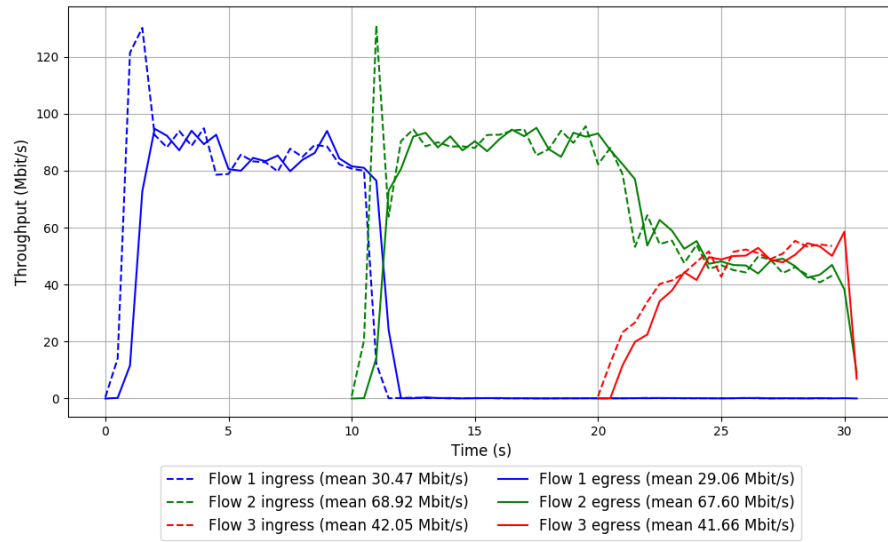


Run 5: Statistics of FillP-Sheep

Start at: 2018-12-20 03:26:13
End at: 2018-12-20 03:26:43
Local clock offset: 9.734 ms
Remote clock offset: 31.531 ms

Below is generated by plot.py at 2018-12-20 03:46:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.97 Mbit/s
95th percentile per-packet one-way delay: 128.633 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 134.067 ms
Loss rate: 4.35%
-- Flow 2:
Average throughput: 67.60 Mbit/s
95th percentile per-packet one-way delay: 126.103 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 41.66 Mbit/s
95th percentile per-packet one-way delay: 130.187 ms
Loss rate: 0.25%

Run 5: Report of FillP-Sheep — Data Link

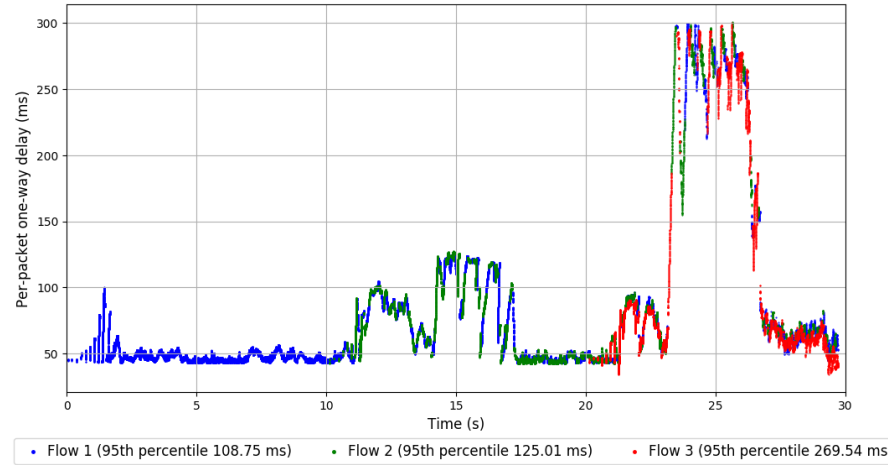
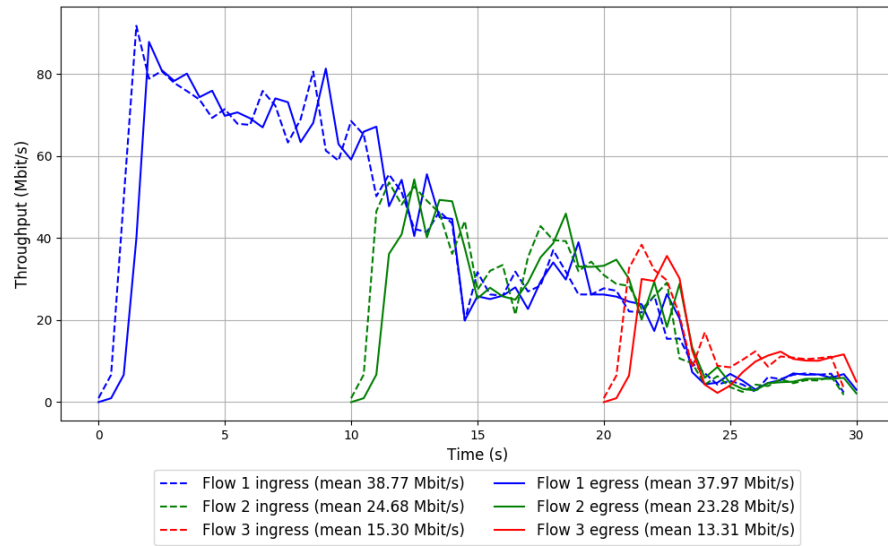


```
Run 1: Statistics of Indigo

Start at: 2018-12-20 01:50:05
End at: 2018-12-20 01:50:35
Local clock offset: 2.309 ms
Remote clock offset: 4.356 ms

# Below is generated by plot.py at 2018-12-20 03:46:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.56 Mbit/s
95th percentile per-packet one-way delay: 120.449 ms
Loss rate: 3.92%
-- Flow 1:
Average throughput: 37.97 Mbit/s
95th percentile per-packet one-way delay: 108.749 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 125.014 ms
Loss rate: 5.63%
-- Flow 3:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 269.542 ms
Loss rate: 13.06%
```

Run 1: Report of Indigo — Data Link

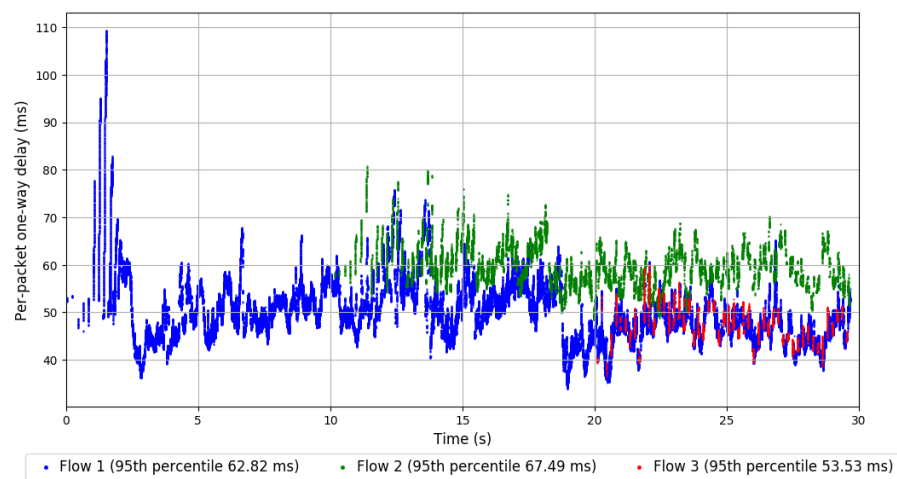
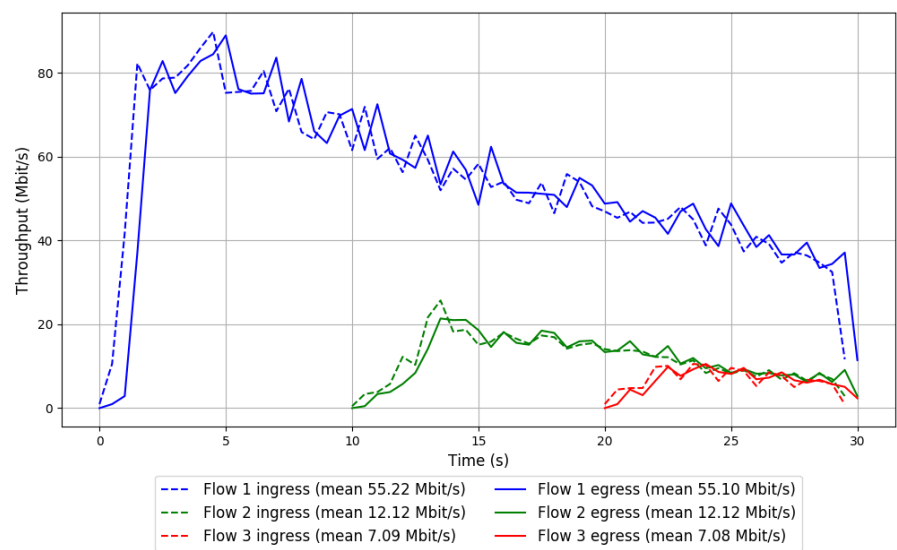


Run 2: Statistics of Indigo

Start at: 2018-12-20 02:15:00
End at: 2018-12-20 02:15:30
Local clock offset: -0.476 ms
Remote clock offset: 35.238 ms

Below is generated by plot.py at 2018-12-20 03:46:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 65.34 Mbit/s
95th percentile per-packet one-way delay: 64.801 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 55.10 Mbit/s
95th percentile per-packet one-way delay: 62.819 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 12.12 Mbit/s
95th percentile per-packet one-way delay: 67.486 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 53.530 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

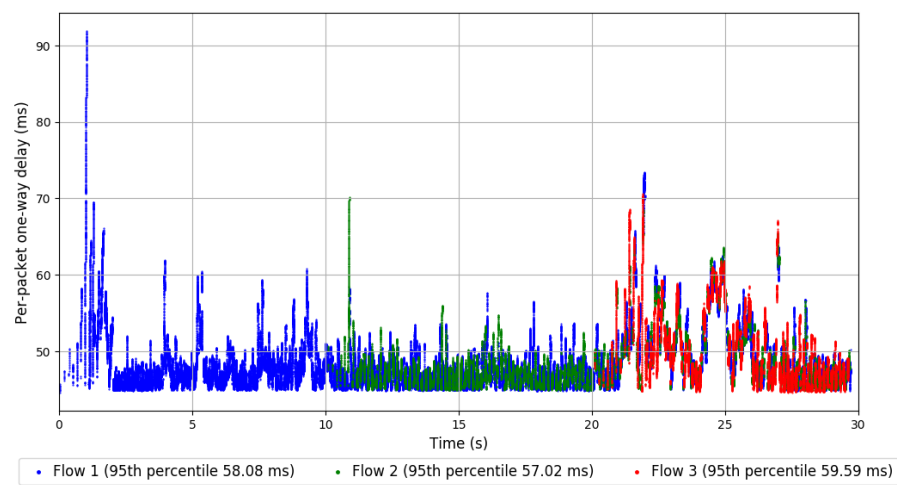
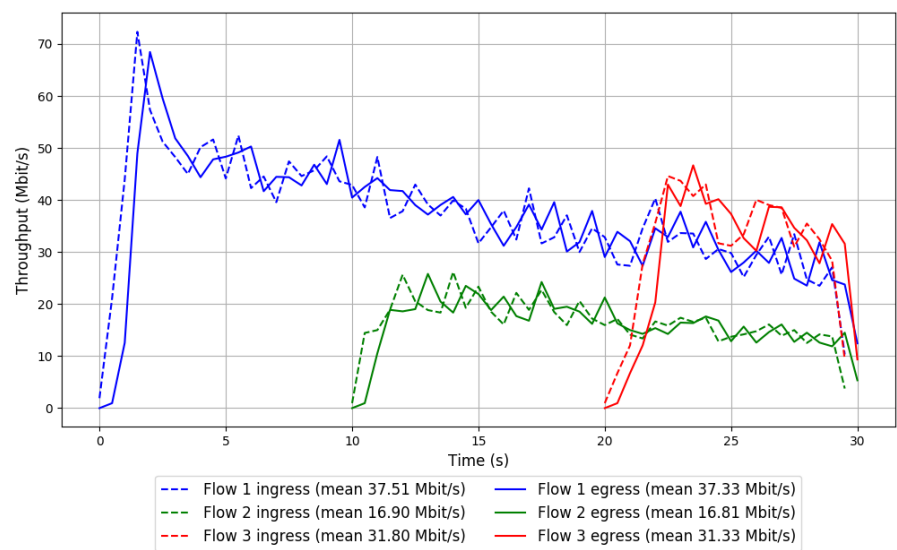


Run 3: Statistics of Indigo

Start at: 2018-12-20 02:39:48
End at: 2018-12-20 02:40:18
Local clock offset: 4.465 ms
Remote clock offset: 81.898 ms

Below is generated by plot.py at 2018-12-20 03:46:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.47 Mbit/s
95th percentile per-packet one-way delay: 58.344 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 37.33 Mbit/s
95th percentile per-packet one-way delay: 58.081 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 16.81 Mbit/s
95th percentile per-packet one-way delay: 57.015 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 31.33 Mbit/s
95th percentile per-packet one-way delay: 59.595 ms
Loss rate: 1.48%

Run 3: Report of Indigo — Data Link

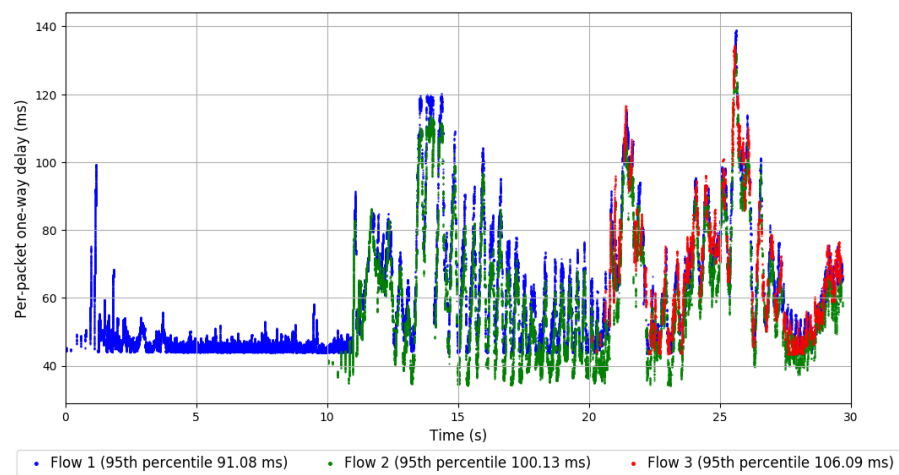
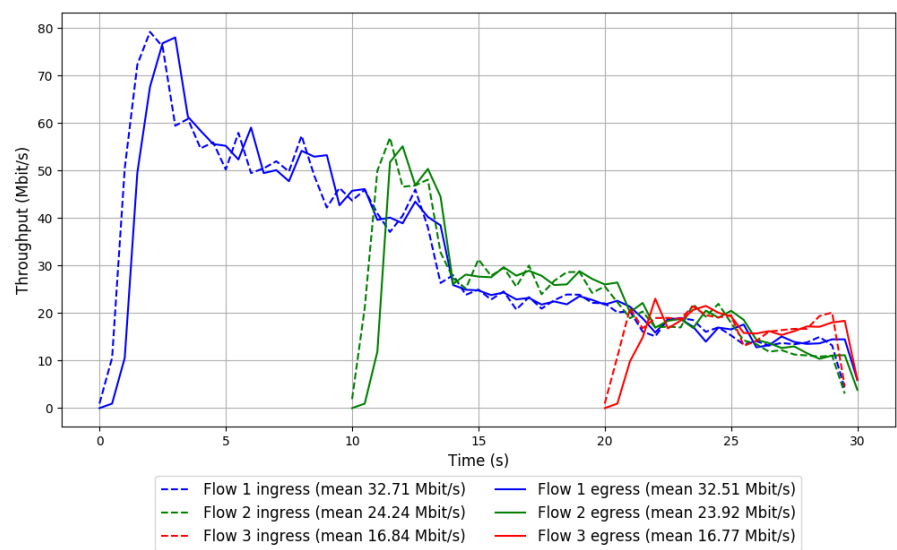


Run 4: Statistics of Indigo

Start at: 2018-12-20 03:04:00
End at: 2018-12-20 03:04:30
Local clock offset: 14.765 ms
Remote clock offset: 106.612 ms

```
# Below is generated by plot.py at 2018-12-20 03:46:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 96.111 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 32.51 Mbit/s
95th percentile per-packet one-way delay: 91.082 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 23.92 Mbit/s
95th percentile per-packet one-way delay: 100.126 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 16.77 Mbit/s
95th percentile per-packet one-way delay: 106.095 ms
Loss rate: 0.53%
```

Run 4: Report of Indigo — Data Link

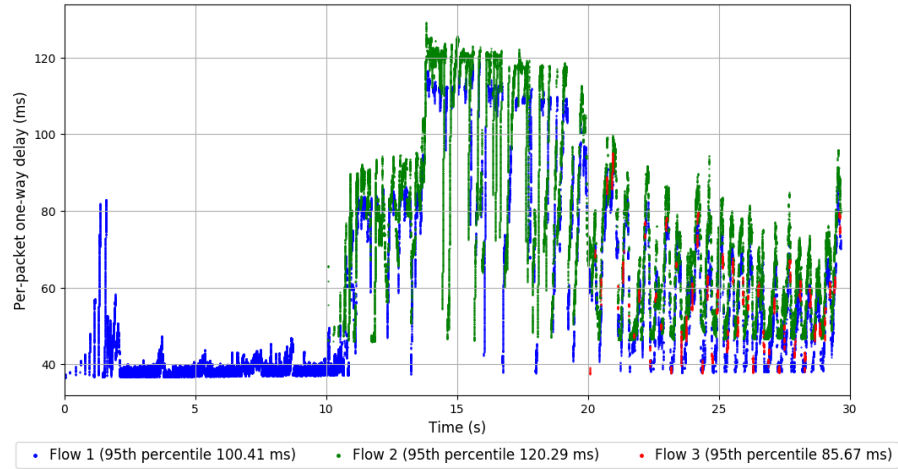
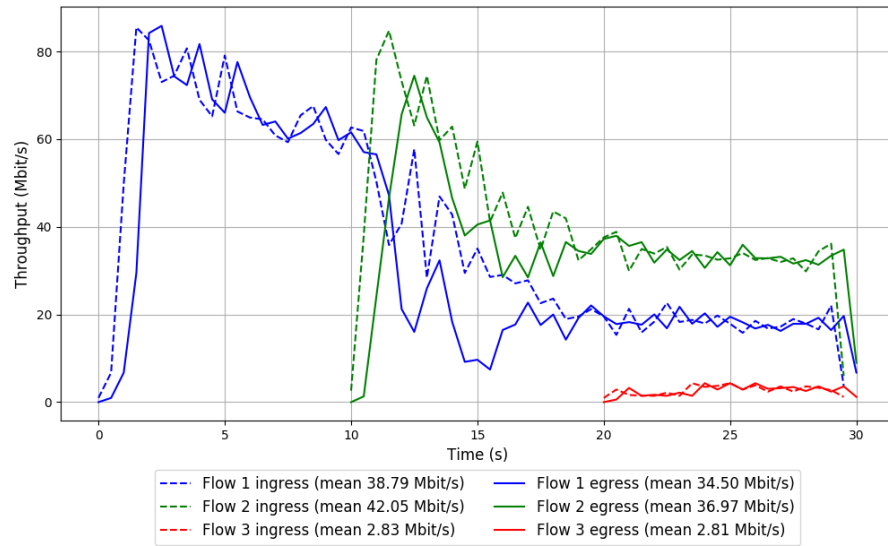


Run 5: Statistics of Indigo

Start at: 2018-12-20 03:28:57
End at: 2018-12-20 03:29:27
Local clock offset: 9.214 ms
Remote clock offset: 21.191 ms

Below is generated by plot.py at 2018-12-20 03:46:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.85 Mbit/s
95th percentile per-packet one-way delay: 114.842 ms
Loss rate: 11.32%
-- Flow 1:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 100.405 ms
Loss rate: 11.01%
-- Flow 2:
Average throughput: 36.97 Mbit/s
95th percentile per-packet one-way delay: 120.288 ms
Loss rate: 12.12%
-- Flow 3:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 85.673 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2018-12-20 01:44:50

End at: 2018-12-20 01:45:20

Local clock offset: 5.317 ms

Remote clock offset: 1.803 ms

Below is generated by plot.py at 2018-12-20 03:46:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 37.45 Mbit/s

95th percentile per-packet one-way delay: 73.151 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 12.36 Mbit/s

95th percentile per-packet one-way delay: 107.209 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 15.66 Mbit/s

95th percentile per-packet one-way delay: 51.770 ms

Loss rate: 0.00%

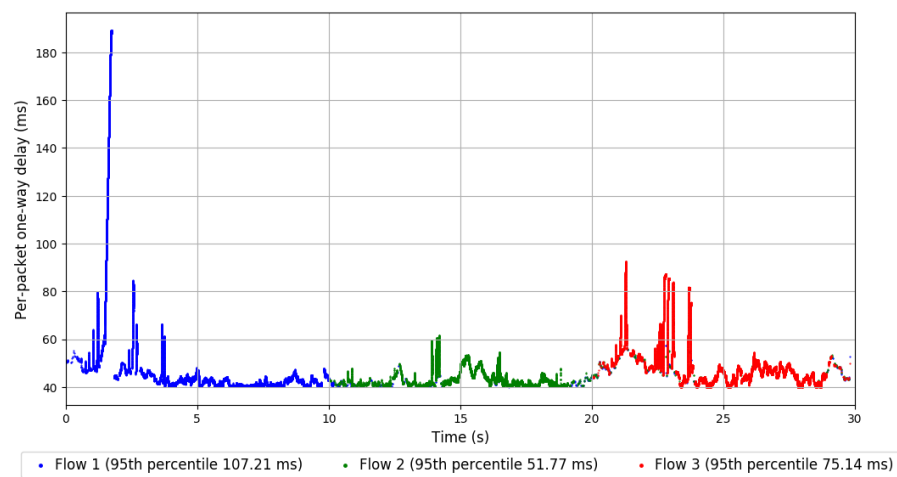
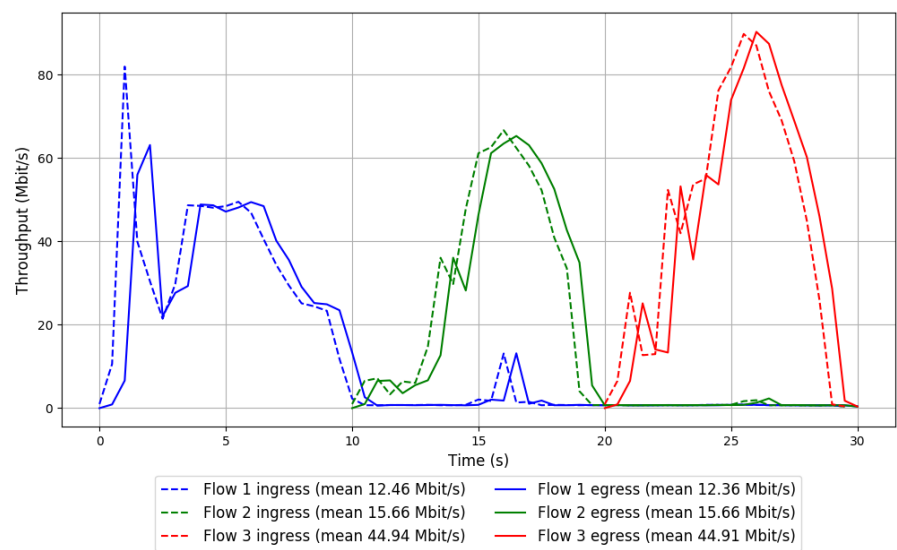
-- Flow 3:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 75.142 ms

Loss rate: 0.00%

Run 1: Report of Indigo-MusesD — Data Link

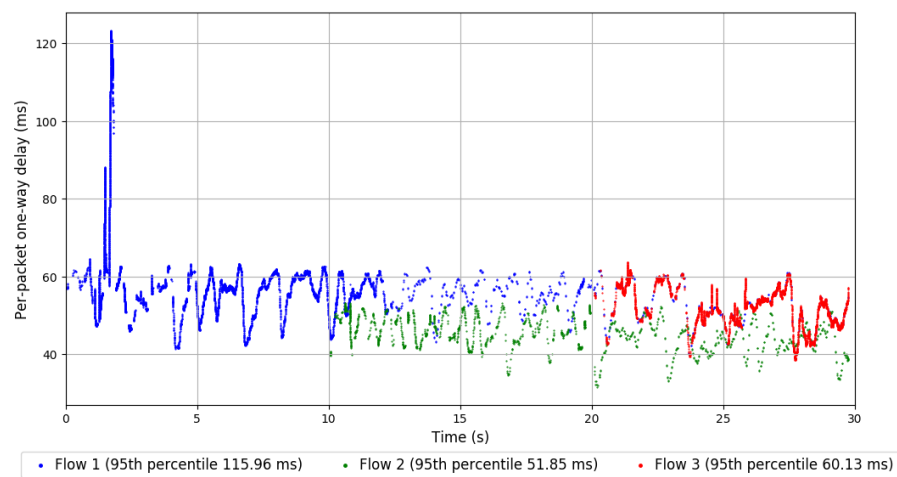
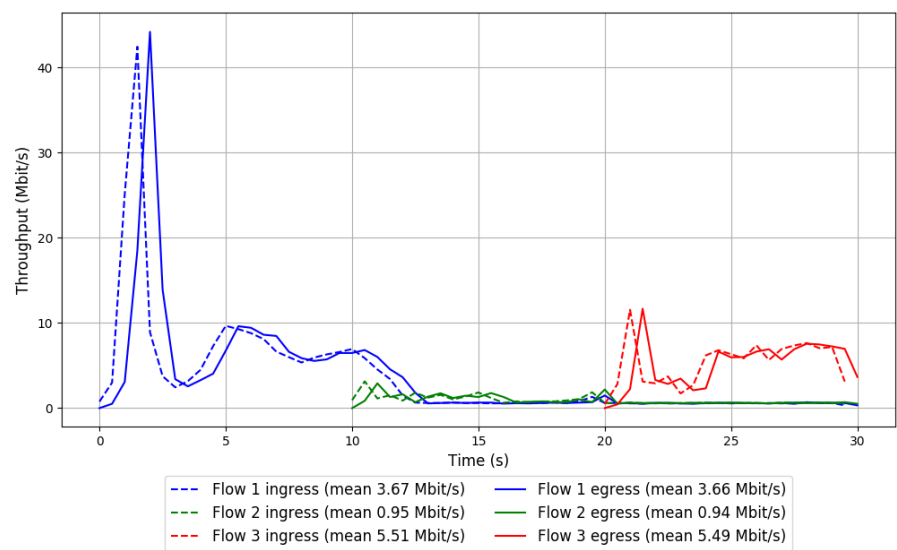


Run 2: Statistics of Indigo-MusesD

Start at: 2018-12-20 02:09:41
End at: 2018-12-20 02:10:11
Local clock offset: -1.176 ms
Remote clock offset: 10.155 ms

Below is generated by plot.py at 2018-12-20 03:46:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.07 Mbit/s
95th percentile per-packet one-way delay: 108.787 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 115.963 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 51.854 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 60.129 ms
Loss rate: 0.39%

Run 2: Report of Indigo-MusesD — Data Link

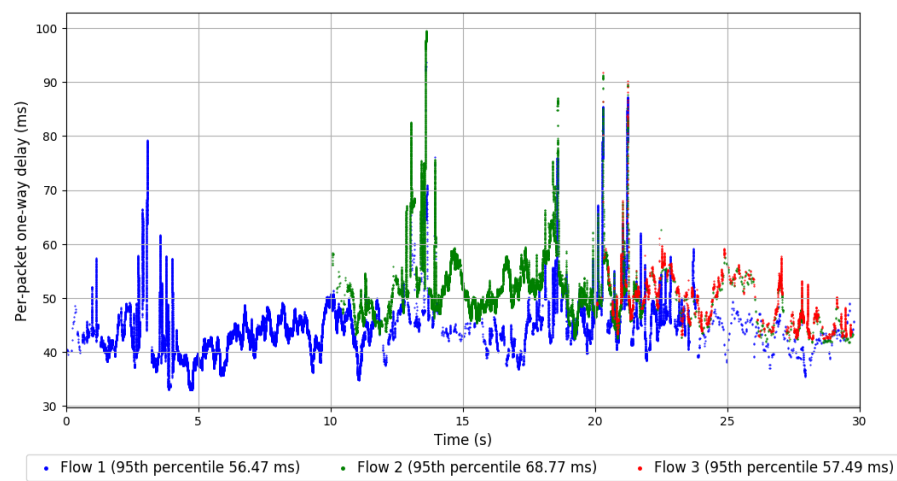
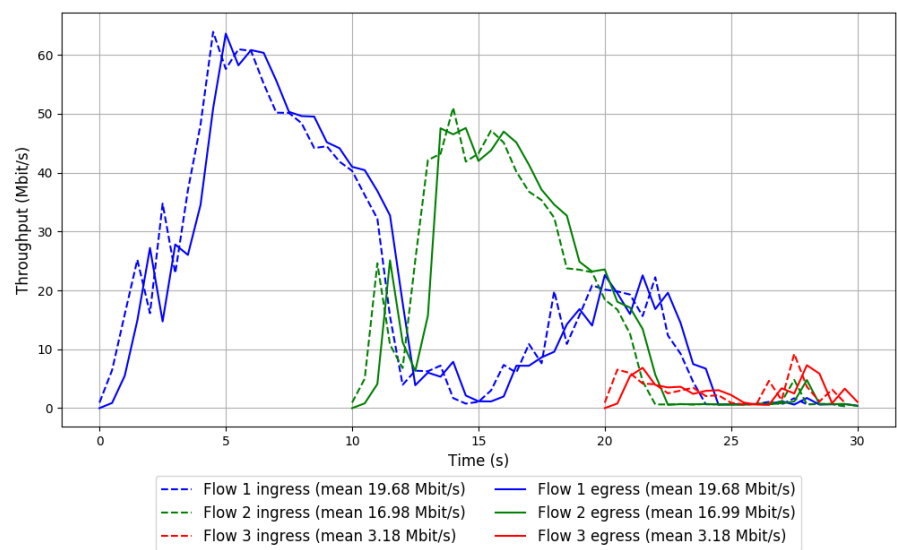


Run 3: Statistics of Indigo-MusesD

Start at: 2018-12-20 02:34:37
End at: 2018-12-20 02:35:07
Local clock offset: -1.336 ms
Remote clock offset: 74.512 ms

Below is generated by plot.py at 2018-12-20 03:46:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.95 Mbit/s
95th percentile per-packet one-way delay: 65.120 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 19.68 Mbit/s
95th percentile per-packet one-way delay: 56.465 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 16.99 Mbit/s
95th percentile per-packet one-way delay: 68.768 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.18 Mbit/s
95th percentile per-packet one-way delay: 57.495 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

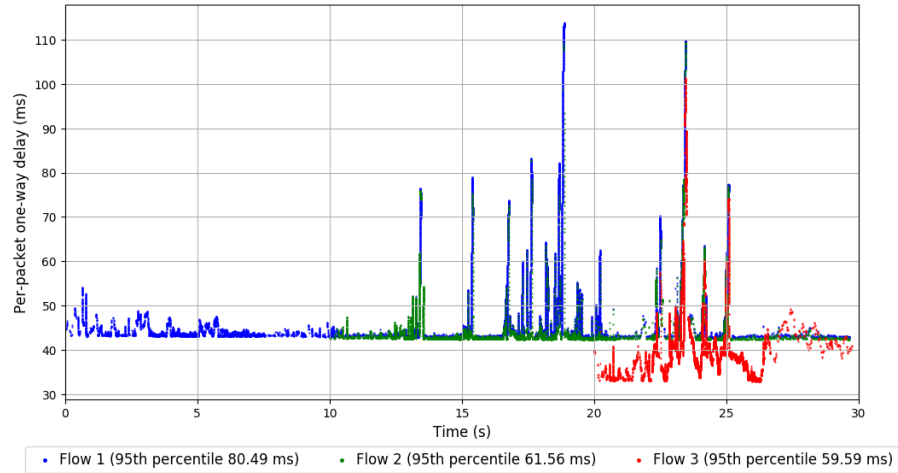
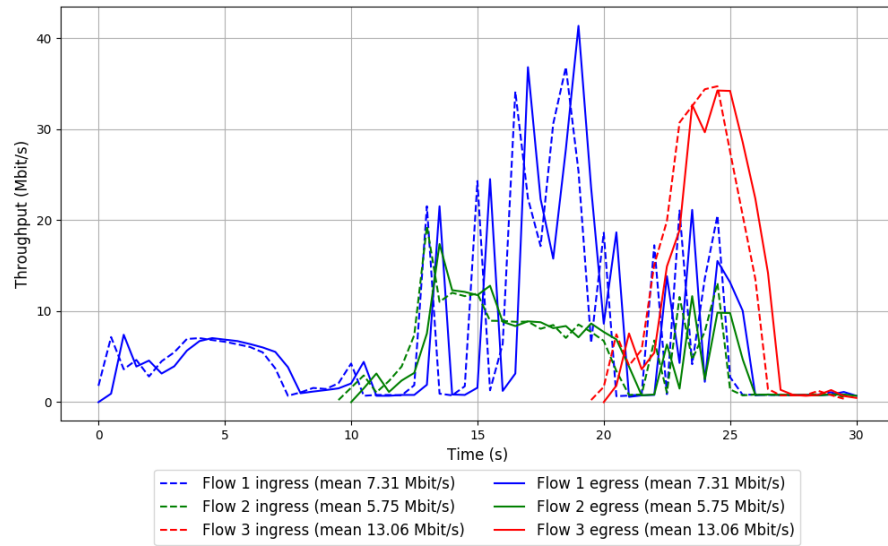


Run 4: Statistics of Indigo-MusesD

Start at: 2018-12-20 02:58:49
End at: 2018-12-20 02:59:19
Local clock offset: 14.199 ms
Remote clock offset: 100.348 ms

Below is generated by plot.py at 2018-12-20 03:46:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.38 Mbit/s
95th percentile per-packet one-way delay: 75.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.31 Mbit/s
95th percentile per-packet one-way delay: 80.492 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 61.561 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.06 Mbit/s
95th percentile per-packet one-way delay: 59.591 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link

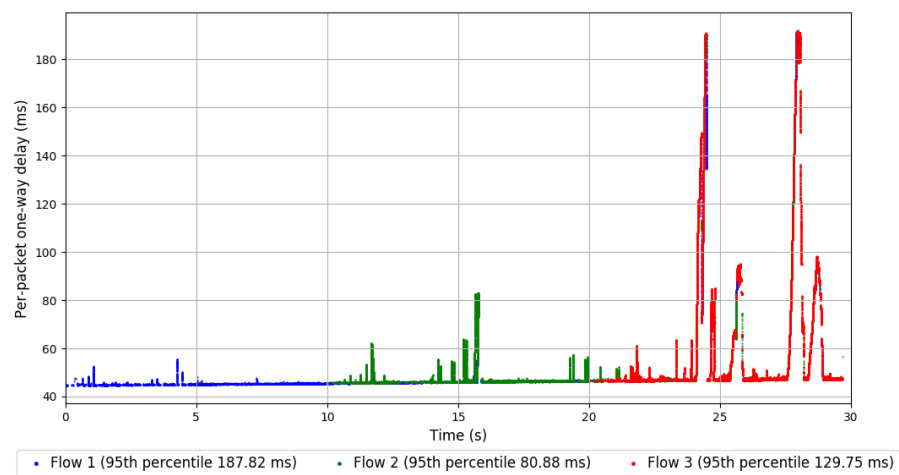
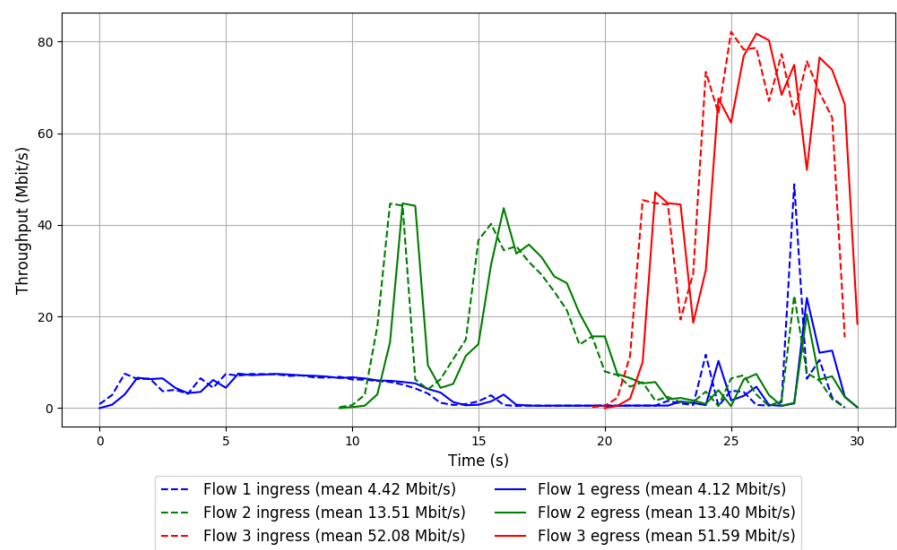


Run 5: Statistics of Indigo-MusesD

Start at: 2018-12-20 03:23:34
End at: 2018-12-20 03:24:04
Local clock offset: 9.869 ms
Remote clock offset: 43.451 ms

Below is generated by plot.py at 2018-12-20 03:46:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 130.065 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 187.823 ms
Loss rate: 6.65%
-- Flow 2:
Average throughput: 13.40 Mbit/s
95th percentile per-packet one-way delay: 80.882 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 51.59 Mbit/s
95th percentile per-packet one-way delay: 129.752 ms
Loss rate: 0.94%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2018-12-20 01:57:58

End at: 2018-12-20 01:58:28

Local clock offset: -0.368 ms

Remote clock offset: 1.702 ms

Below is generated by plot.py at 2018-12-20 03:47:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.02 Mbit/s

95th percentile per-packet one-way delay: 195.025 ms

Loss rate: 7.24%

-- Flow 1:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 193.147 ms

Loss rate: 5.39%

-- Flow 2:

Average throughput: 54.18 Mbit/s

95th percentile per-packet one-way delay: 195.266 ms

Loss rate: 9.98%

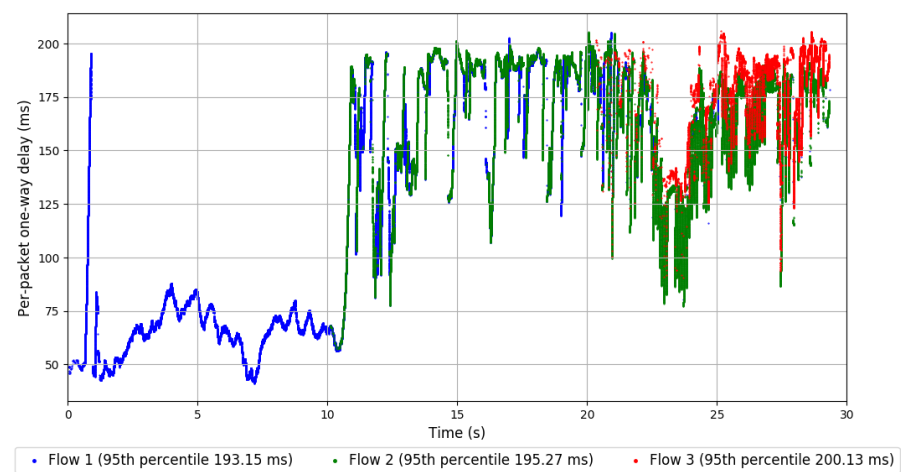
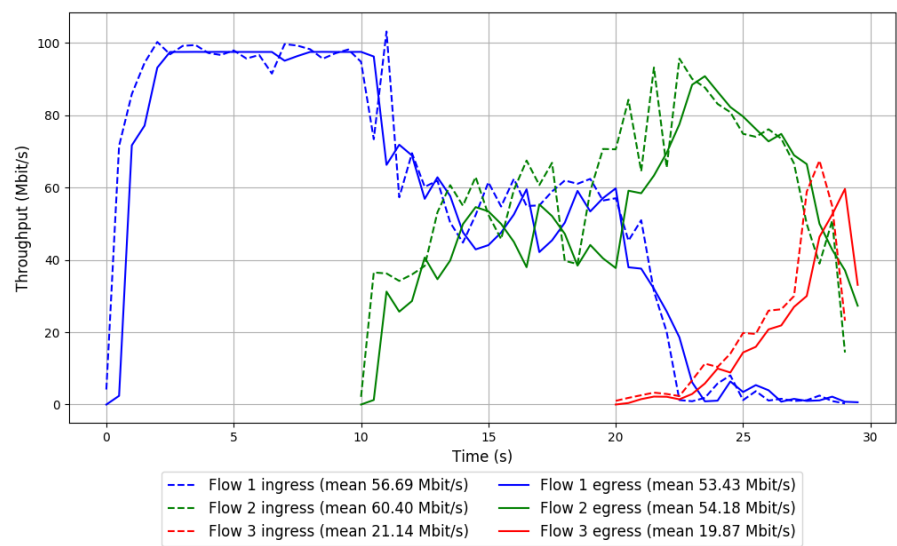
-- Flow 3:

Average throughput: 19.87 Mbit/s

95th percentile per-packet one-way delay: 200.130 ms

Loss rate: 6.68%

Run 1: Report of Indigo-MusesT — Data Link

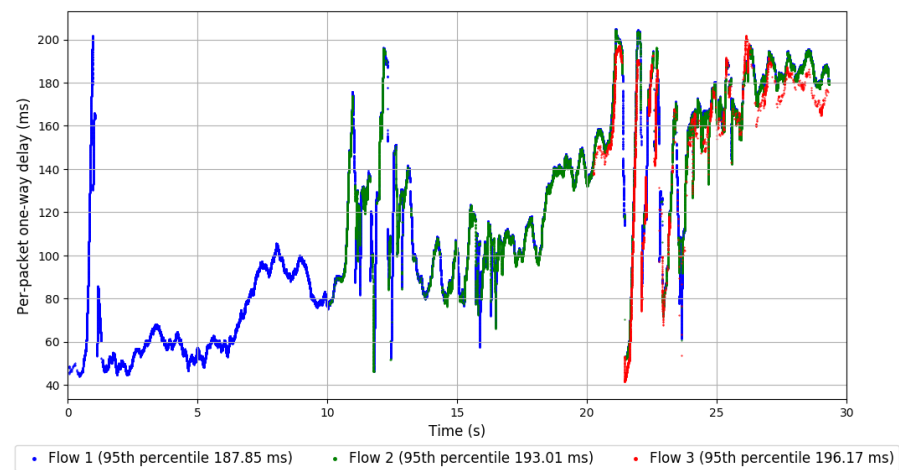
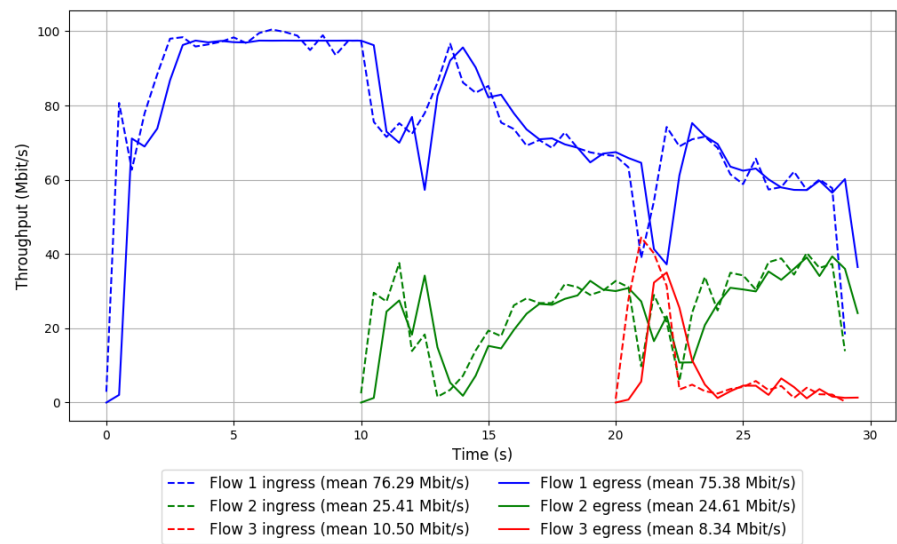


Run 2: Statistics of Indigo-MusesT

Start at: 2018-12-20 02:23:04
End at: 2018-12-20 02:23:34
Local clock offset: -0.513 ms
Remote clock offset: 51.502 ms

Below is generated by plot.py at 2018-12-20 03:47:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.12 Mbit/s
95th percentile per-packet one-way delay: 189.904 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 75.38 Mbit/s
95th percentile per-packet one-way delay: 187.854 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 193.011 ms
Loss rate: 2.81%
-- Flow 3:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 196.174 ms
Loss rate: 20.78%

Run 2: Report of Indigo-MusesT — Data Link

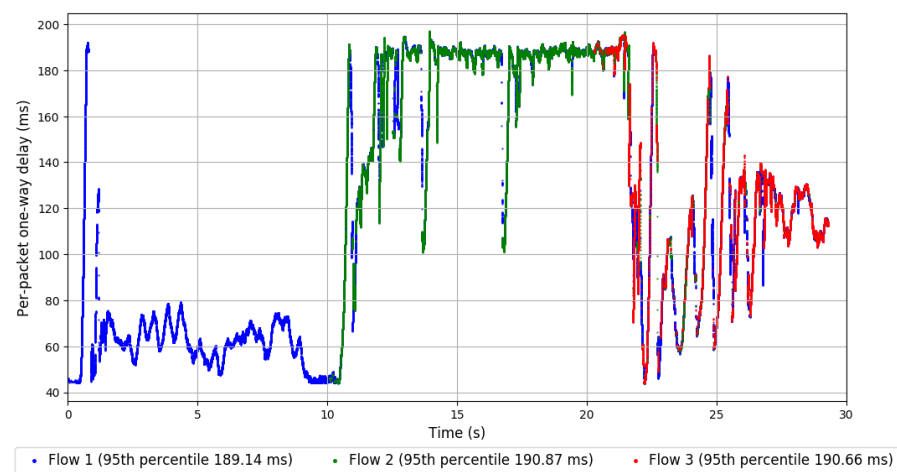
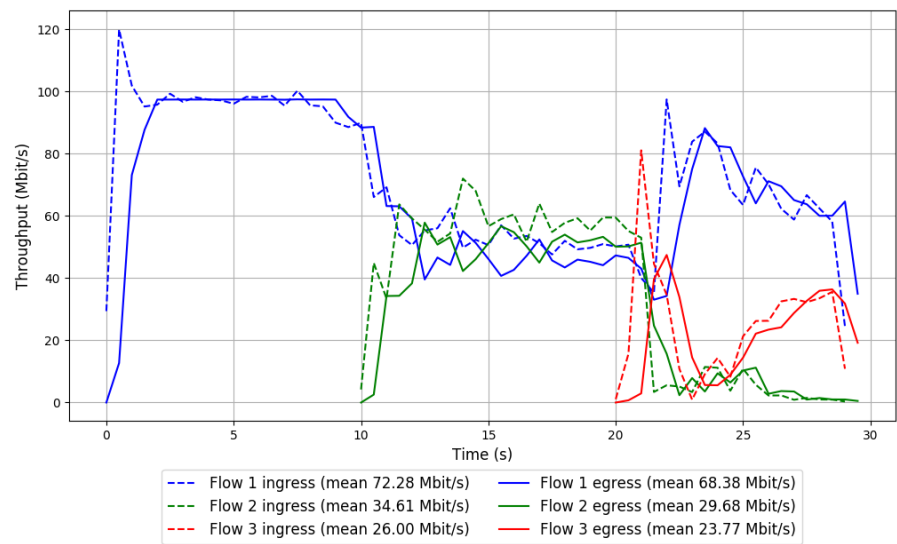


Run 3: Statistics of Indigo-MusesT

Start at: 2018-12-20 02:47:32
End at: 2018-12-20 02:48:02
Local clock offset: 10.318 ms
Remote clock offset: 89.865 ms

Below is generated by plot.py at 2018-12-20 03:47:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.13 Mbit/s
95th percentile per-packet one-way delay: 189.717 ms
Loss rate: 7.48%
-- Flow 1:
Average throughput: 68.38 Mbit/s
95th percentile per-packet one-way delay: 189.141 ms
Loss rate: 5.23%
-- Flow 2:
Average throughput: 29.68 Mbit/s
95th percentile per-packet one-way delay: 190.874 ms
Loss rate: 13.95%
-- Flow 3:
Average throughput: 23.77 Mbit/s
95th percentile per-packet one-way delay: 190.664 ms
Loss rate: 9.35%

Run 3: Report of Indigo-MusesT — Data Link

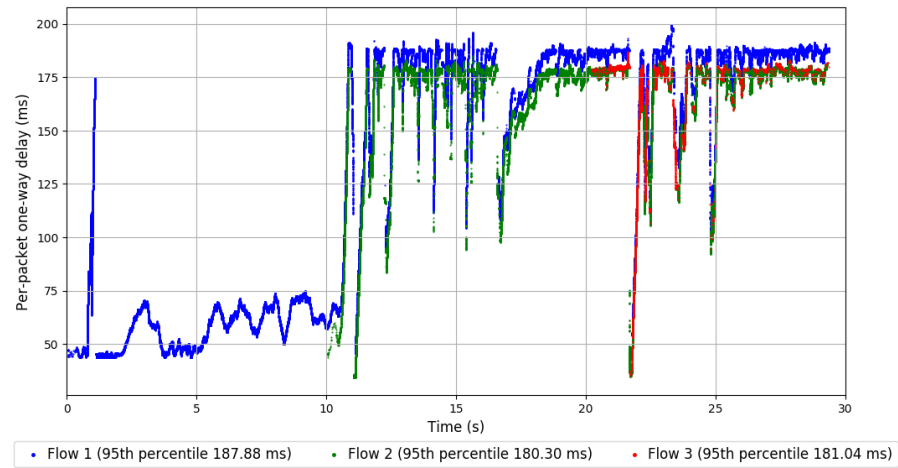
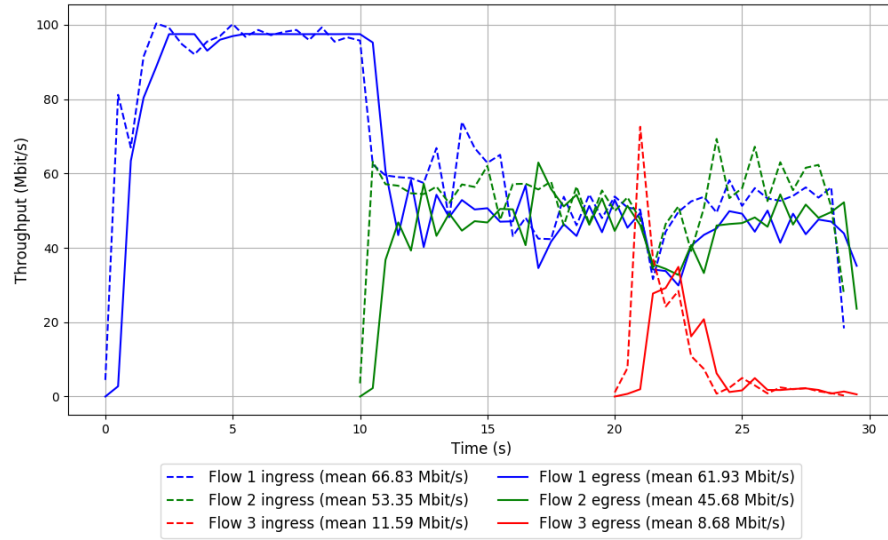


Run 4: Statistics of Indigo-MusesT

Start at: 2018-12-20 03:11:48
End at: 2018-12-20 03:12:18
Local clock offset: 12.573 ms
Remote clock offset: 115.684 ms

Below is generated by plot.py at 2018-12-20 03:47:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 187.614 ms
Loss rate: 9.93%
-- Flow 1:
Average throughput: 61.93 Mbit/s
95th percentile per-packet one-way delay: 187.877 ms
Loss rate: 6.90%
-- Flow 2:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 180.297 ms
Loss rate: 14.16%
-- Flow 3:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 181.039 ms
Loss rate: 25.10%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MuseST

/home/ubuntu/pantheon/data/2018-12-20T01-33-AWS-Korea-to-China-5-runs-3-flows/indigo_musest.

Run 5: Report of Indigo-MusesT — Data Link

Figure is missing

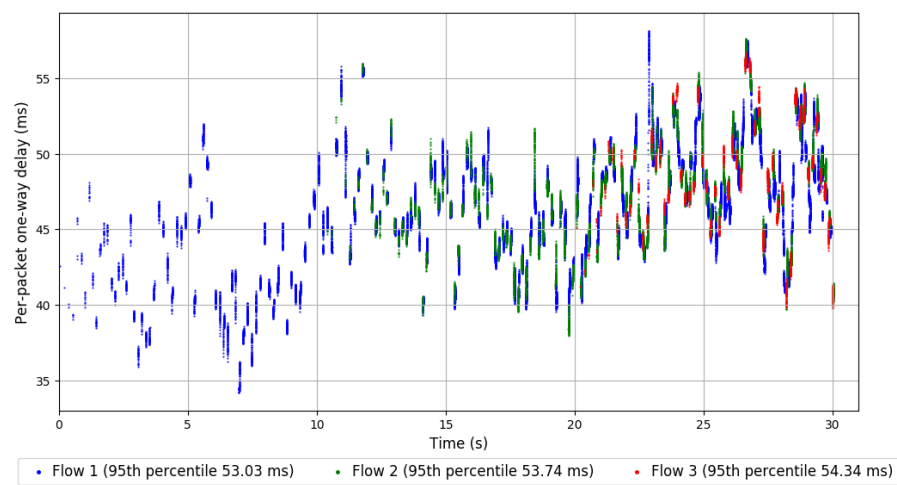
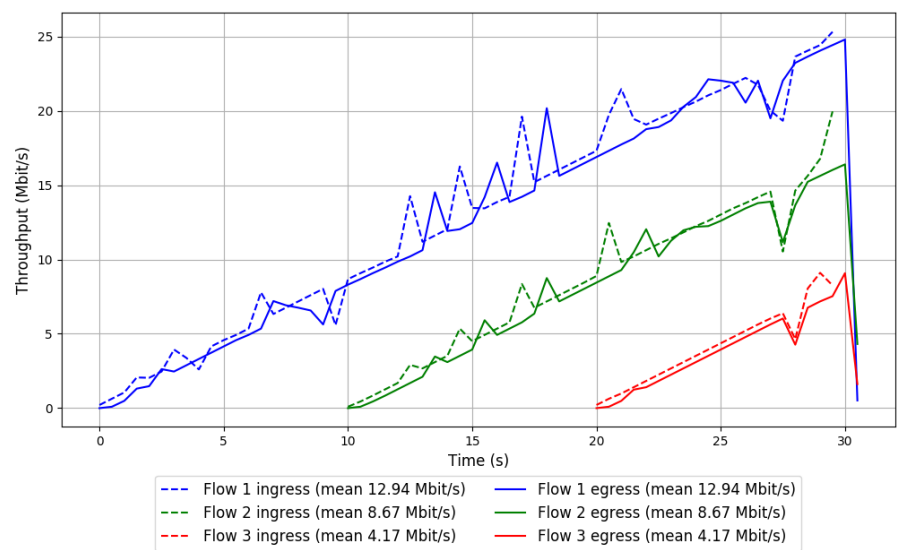
Figure is missing

```
Run 1: Statistics of LEDBAT

Start at: 2018-12-20 01:54:02
End at: 2018-12-20 01:54:32
Local clock offset: 1.532 ms
Remote clock offset: 4.378 ms

# Below is generated by plot.py at 2018-12-20 03:47:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 53.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 53.029 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 54.342 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-12-20 02:19:04

End at: 2018-12-20 02:19:34

Local clock offset: -0.366 ms

Remote clock offset: 46.26 ms

Below is generated by plot.py at 2018-12-20 03:47:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 14.92 Mbit/s

95th percentile per-packet one-way delay: 59.504 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.69 Mbit/s

95th percentile per-packet one-way delay: 59.695 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 59.147 ms

Loss rate: 0.00%

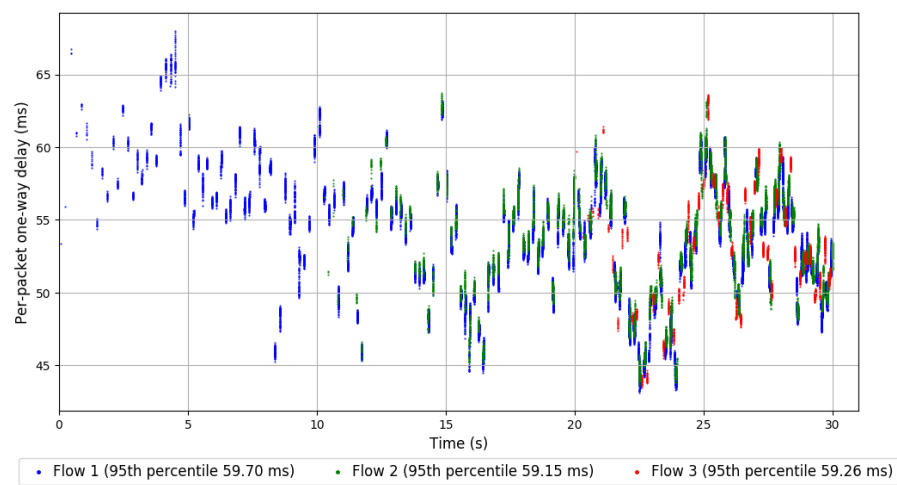
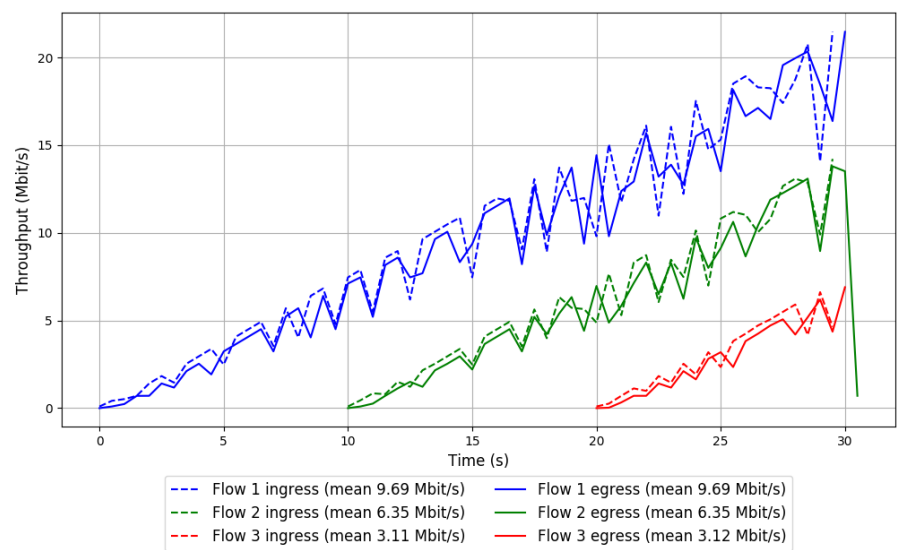
-- Flow 3:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 59.262 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

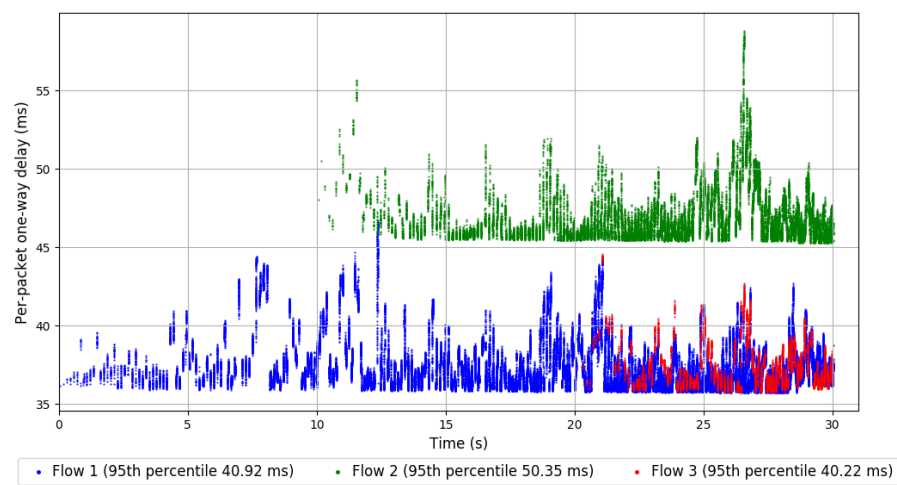
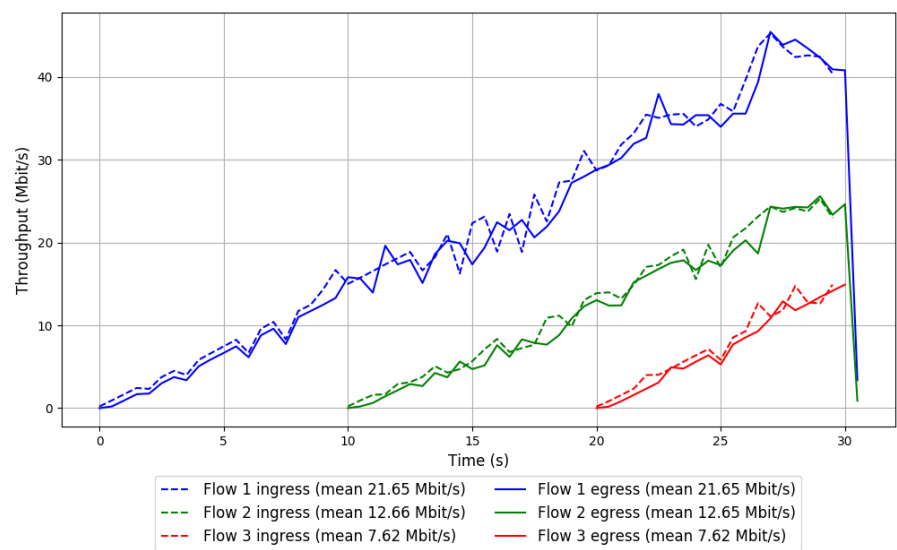


Run 3: Statistics of LEDBAT

Start at: 2018-12-20 02:43:39
End at: 2018-12-20 02:44:09
Local clock offset: 7.899 ms
Remote clock offset: 86.712 ms

Below is generated by plot.py at 2018-12-20 03:47:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 47.961 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 21.65 Mbit/s
95th percentile per-packet one-way delay: 40.917 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 12.65 Mbit/s
95th percentile per-packet one-way delay: 50.350 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 7.62 Mbit/s
95th percentile per-packet one-way delay: 40.223 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

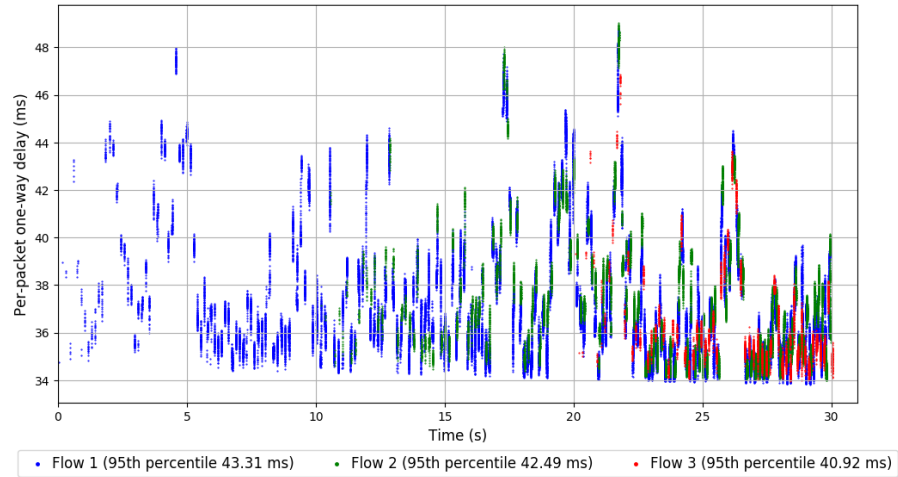
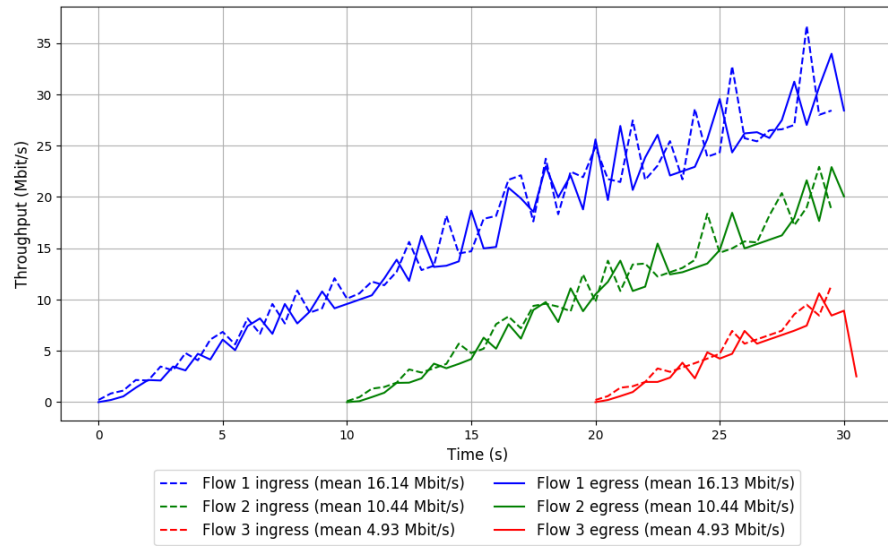


Run 4: Statistics of LEDBAT

Start at: 2018-12-20 03:07:54
End at: 2018-12-20 03:08:24
Local clock offset: 13.318 ms
Remote clock offset: 110.779 ms

```
# Below is generated by plot.py at 2018-12-20 03:47:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 42.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.13 Mbit/s
95th percentile per-packet one-way delay: 43.312 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.44 Mbit/s
95th percentile per-packet one-way delay: 42.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.93 Mbit/s
95th percentile per-packet one-way delay: 40.925 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-12-20 03:32:57

End at: 2018-12-20 03:33:27

Local clock offset: 9.377 ms

Remote clock offset: 9.063 ms

Below is generated by plot.py at 2018-12-20 03:47:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 15.19 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 49.204 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 50.205 ms

Loss rate: 0.00%

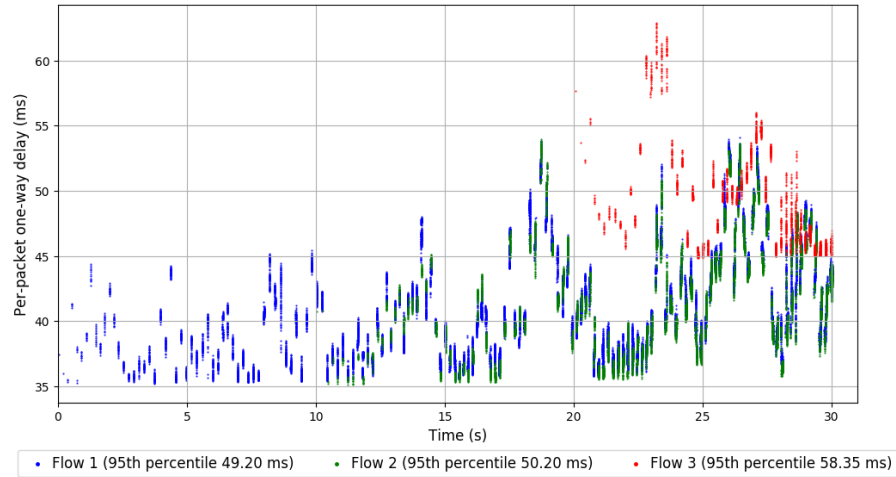
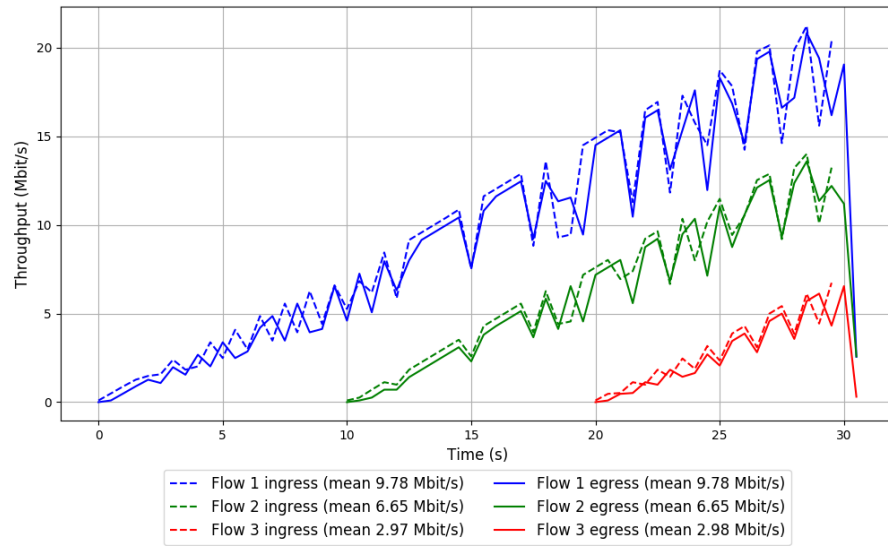
-- Flow 3:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 58.346 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

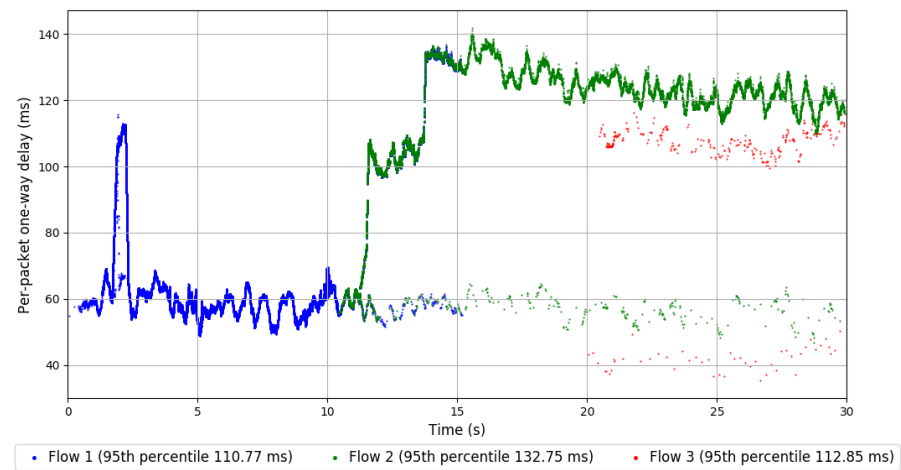
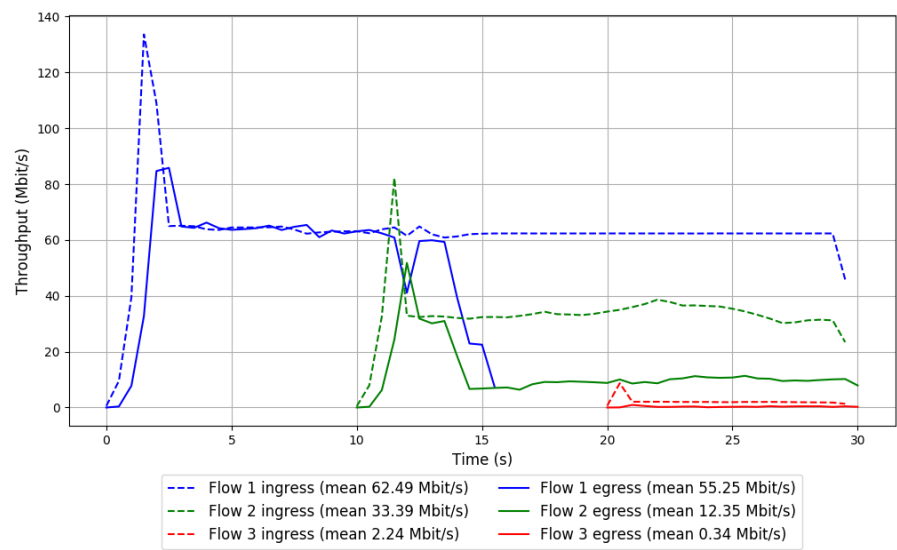


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-12-20 01:39:45
End at: 2018-12-20 01:40:15
Local clock offset: 9.536 ms
Remote clock offset: 0.537 ms

# Below is generated by plot.py at 2018-12-20 03:47:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 129.152 ms
Loss rate: 57.52%
-- Flow 1:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 110.765 ms
Loss rate: 55.24%
-- Flow 2:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 132.747 ms
Loss rate: 63.03%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 112.854 ms
Loss rate: 85.00%
```

Run 1: Report of PCC-Allegro — Data Link

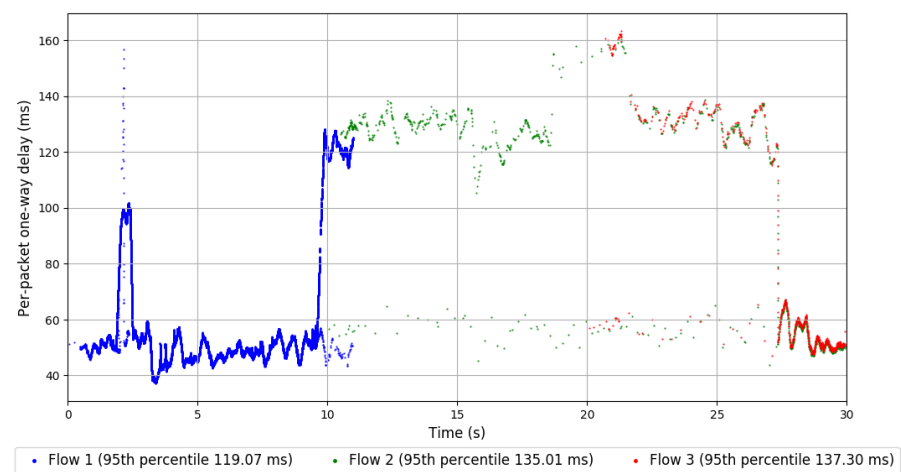
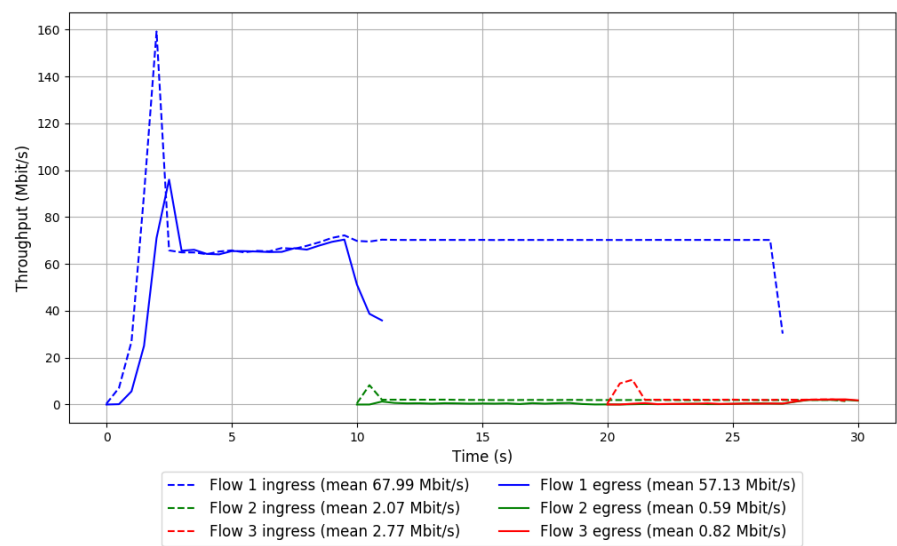


Run 2: Statistics of PCC-Allegro

Start at: 2018-12-20 02:04:31
End at: 2018-12-20 02:05:01
Local clock offset: -2.005 ms
Remote clock offset: -0.971 ms

Below is generated by plot.py at 2018-12-20 03:47:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.60 Mbit/s
95th percentile per-packet one-way delay: 120.380 ms
Loss rate: 66.38%
-- Flow 1:
Average throughput: 57.13 Mbit/s
95th percentile per-packet one-way delay: 119.067 ms
Loss rate: 66.21%
-- Flow 2:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 135.015 ms
Loss rate: 71.42%
-- Flow 3:
Average throughput: 0.82 Mbit/s
95th percentile per-packet one-way delay: 137.301 ms
Loss rate: 70.29%

Run 2: Report of PCC-Allegro — Data Link

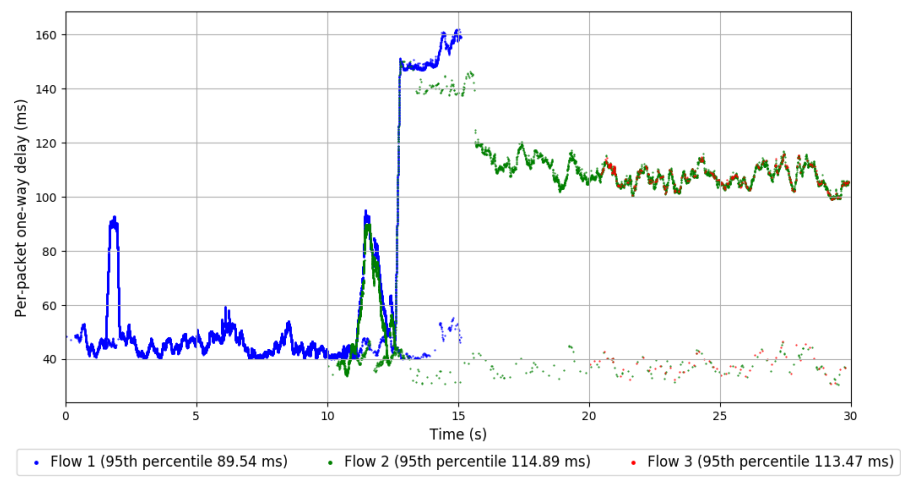
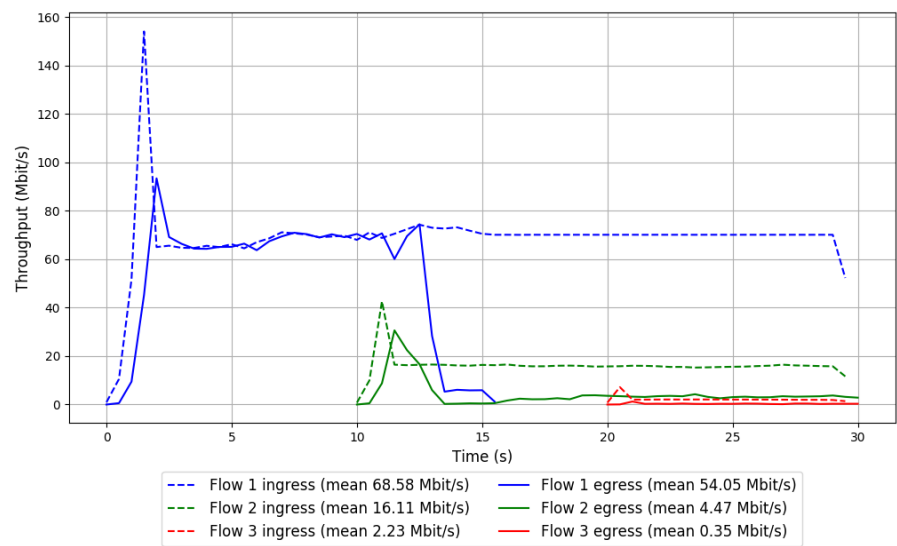


Run 3: Statistics of PCC-Allegro

Start at: 2018-12-20 02:29:34
End at: 2018-12-20 02:30:04
Local clock offset: -0.961 ms
Remote clock offset: 65.924 ms

Below is generated by plot.py at 2018-12-20 03:47:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.32 Mbit/s
95th percentile per-packet one-way delay: 106.505 ms
Loss rate: 62.13%
-- Flow 1:
Average throughput: 54.05 Mbit/s
95th percentile per-packet one-way delay: 89.536 ms
Loss rate: 60.30%
-- Flow 2:
Average throughput: 4.47 Mbit/s
95th percentile per-packet one-way delay: 114.890 ms
Loss rate: 72.28%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 113.467 ms
Loss rate: 84.40%

Run 3: Report of PCC-Allegro — Data Link

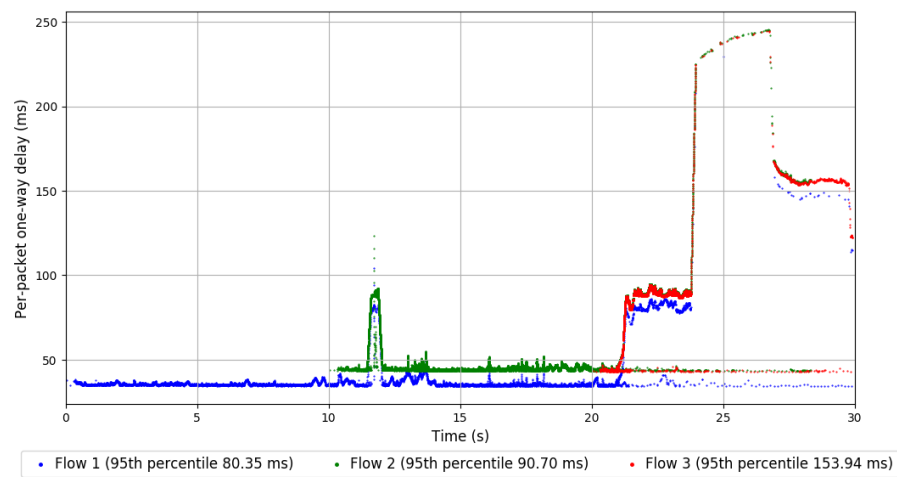
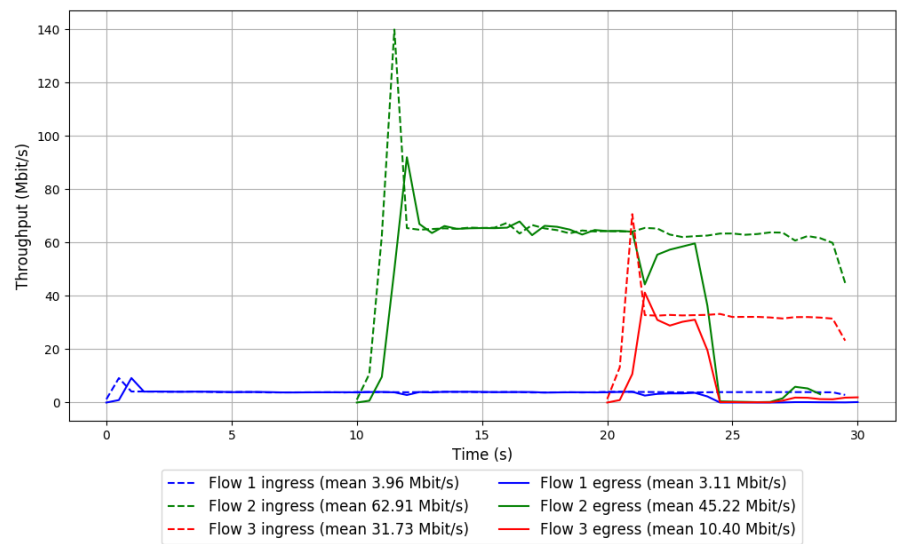


Run 4: Statistics of PCC-Allegro

Start at: 2018-12-20 02:53:53
End at: 2018-12-20 02:54:23
Local clock offset: 13.04 ms
Remote clock offset: 96.495 ms

Below is generated by plot.py at 2018-12-20 03:47:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 90.929 ms
Loss rate: 39.22%
-- Flow 1:
Average throughput: 3.11 Mbit/s
95th percentile per-packet one-way delay: 80.346 ms
Loss rate: 21.55%
-- Flow 2:
Average throughput: 45.22 Mbit/s
95th percentile per-packet one-way delay: 90.703 ms
Loss rate: 33.88%
-- Flow 3:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 153.941 ms
Loss rate: 67.24%

Run 4: Report of PCC-Allegro — Data Link

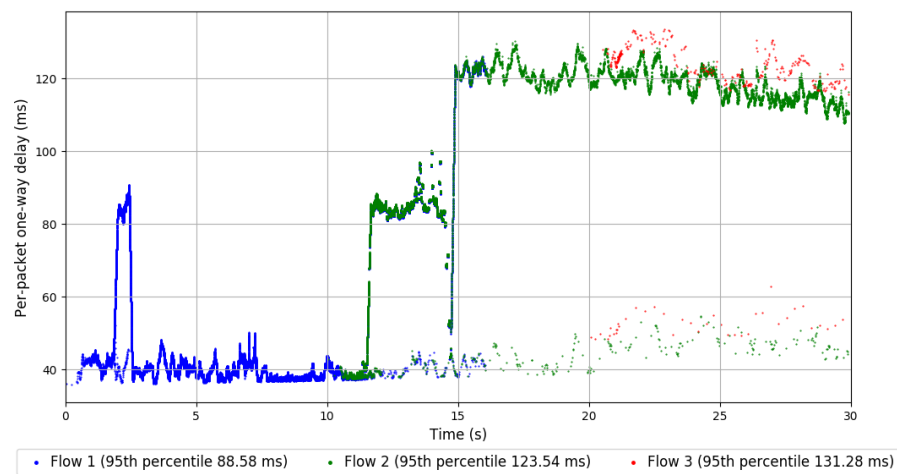
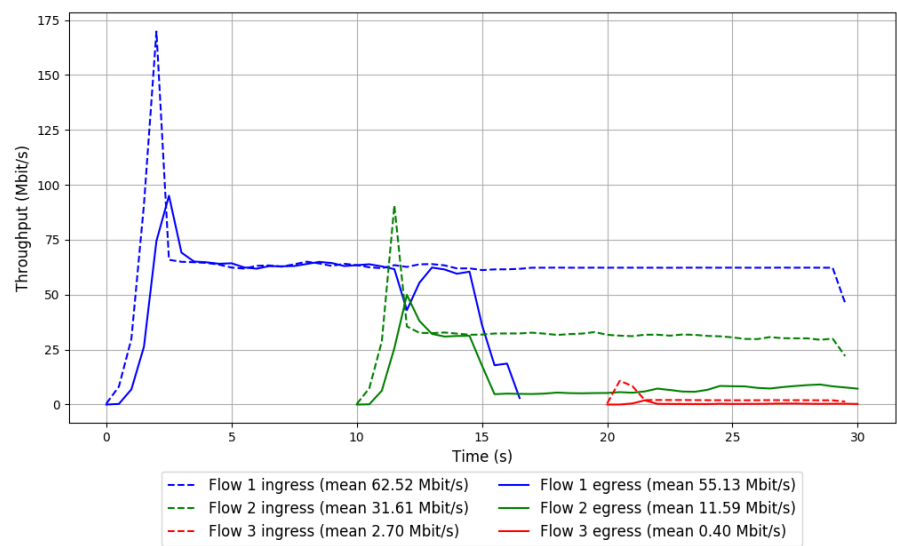


Run 5: Statistics of PCC-Allegro

Start at: 2018-12-20 03:18:23
End at: 2018-12-20 03:18:53
Local clock offset: 10.291 ms
Remote clock offset: 81.427 ms

Below is generated by plot.py at 2018-12-20 03:48:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.44 Mbit/s
95th percentile per-packet one-way delay: 120.349 ms
Loss rate: 55.62%
-- Flow 1:
Average throughput: 55.13 Mbit/s
95th percentile per-packet one-way delay: 88.579 ms
Loss rate: 52.62%
-- Flow 2:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 123.543 ms
Loss rate: 63.30%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 131.275 ms
Loss rate: 85.08%

Run 5: Report of PCC-Allegro — Data Link

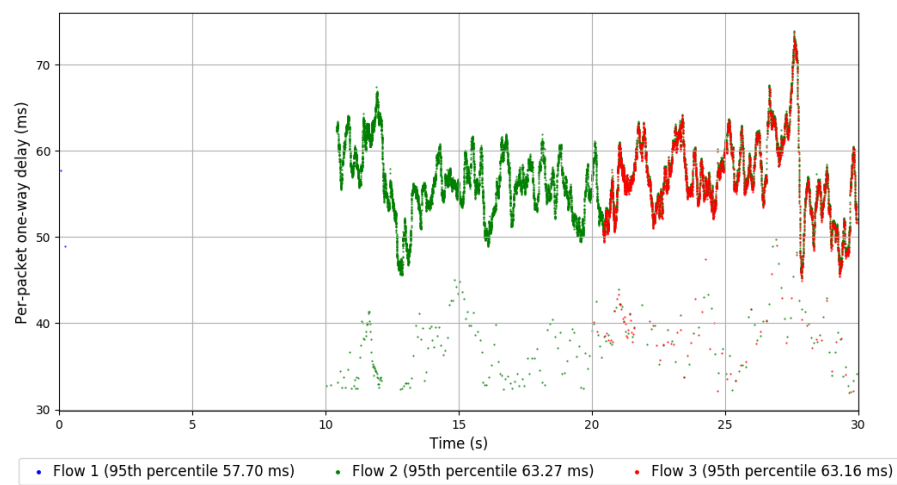
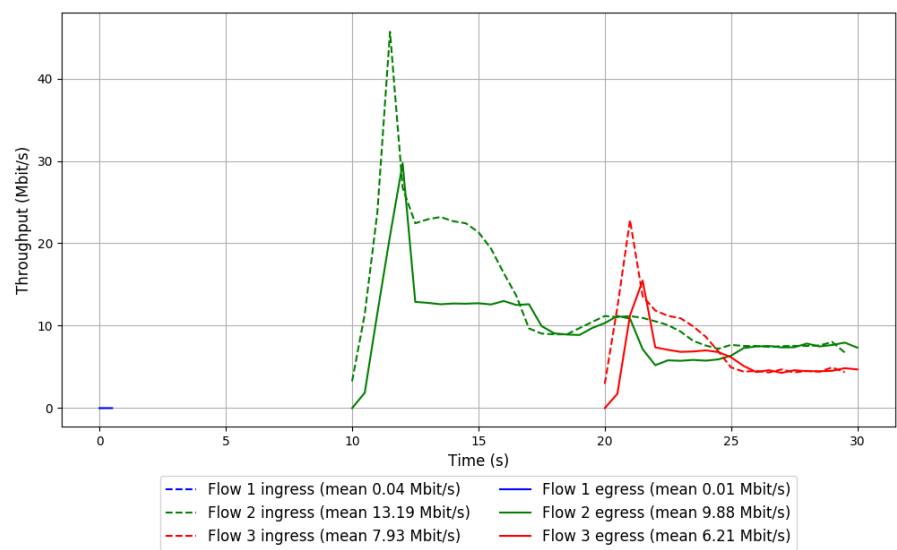


```
Run 1: Statistics of PCC-Expr

Start at: 2018-12-20 01:41:04
End at: 2018-12-20 01:41:34
Local clock offset: 7.864 ms
Remote clock offset: 2.374 ms

# Below is generated by plot.py at 2018-12-20 03:48:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 63.251 ms
Loss rate: 24.25%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 57.696 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.88 Mbit/s
95th percentile per-packet one-way delay: 63.267 ms
Loss rate: 25.03%
-- Flow 3:
Average throughput: 6.21 Mbit/s
95th percentile per-packet one-way delay: 63.163 ms
Loss rate: 21.64%
```

Run 1: Report of PCC-Expr — Data Link

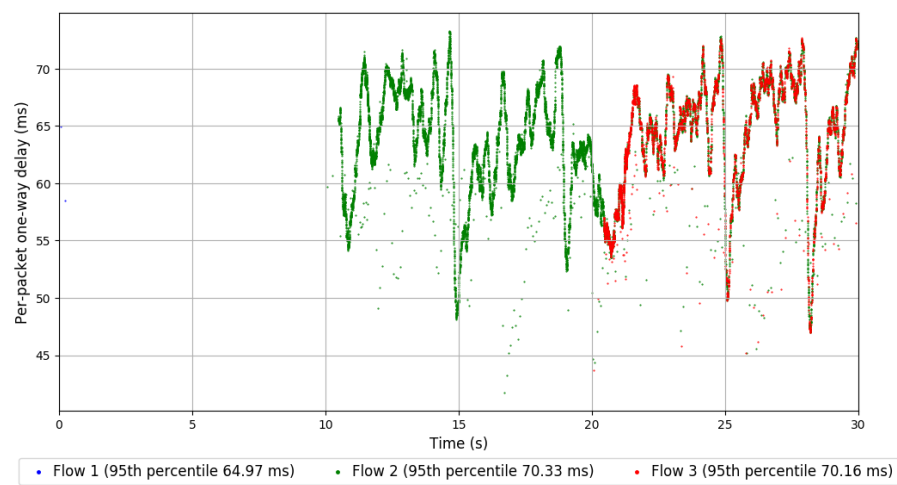
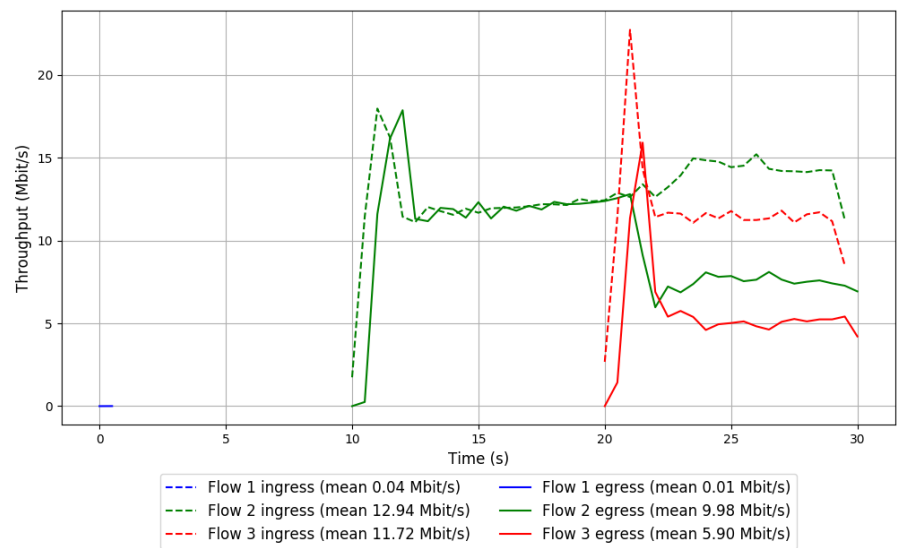


```
Run 2: Statistics of PCC-Expr

Start at: 2018-12-20 02:05:50
End at: 2018-12-20 02:06:20
Local clock offset: -2.243 ms
Remote clock offset: 4.187 ms

# Below is generated by plot.py at 2018-12-20 03:48:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 70.299 ms
Loss rate: 31.11%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 64.967 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 70.328 ms
Loss rate: 22.83%
-- Flow 3:
Average throughput: 5.90 Mbit/s
95th percentile per-packet one-way delay: 70.163 ms
Loss rate: 49.51%
```

Run 2: Report of PCC-Expr — Data Link

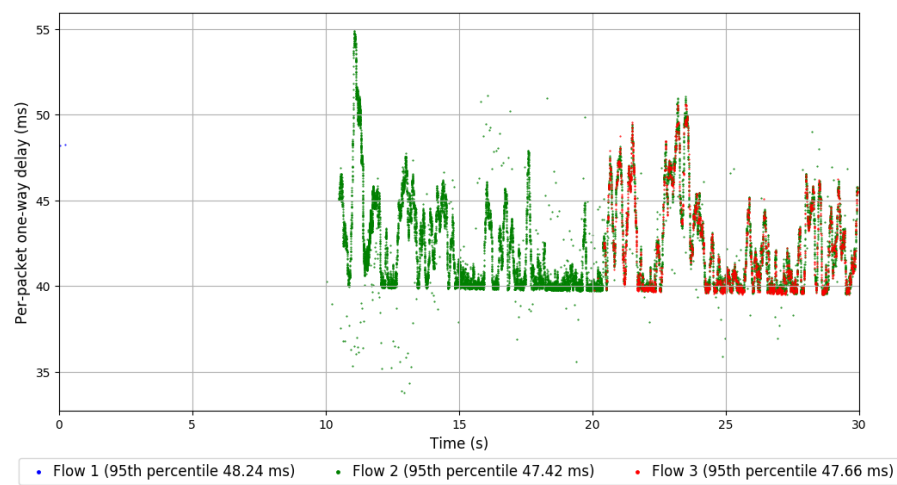
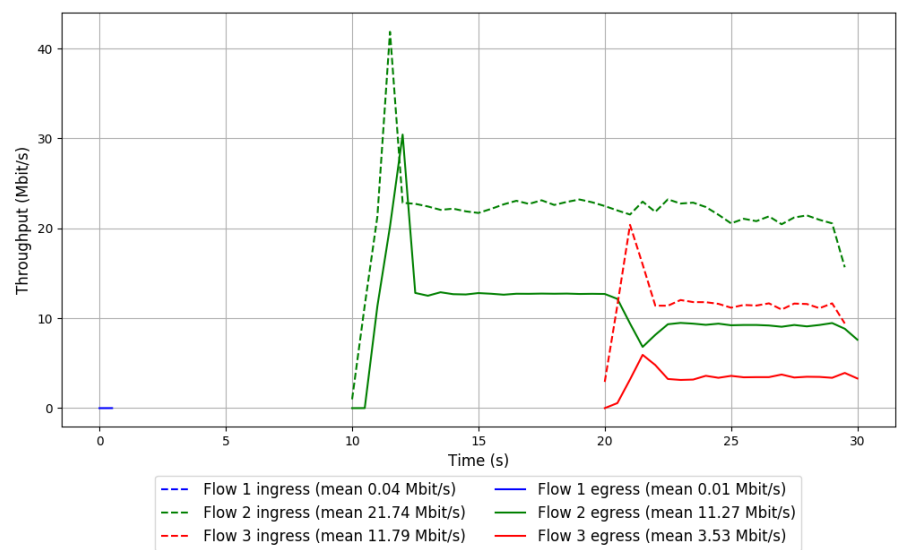


Run 3: Statistics of PCC-Expr

Start at: 2018-12-20 02:30:51
End at: 2018-12-20 02:31:21
Local clock offset: -0.641 ms
Remote clock offset: 67.658 ms

Below is generated by plot.py at 2018-12-20 03:48:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 47.443 ms
Loss rate: 52.79%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 48.237 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.27 Mbit/s
95th percentile per-packet one-way delay: 47.422 ms
Loss rate: 48.13%
-- Flow 3:
Average throughput: 3.53 Mbit/s
95th percentile per-packet one-way delay: 47.663 ms
Loss rate: 70.09%

Run 3: Report of PCC-Expr — Data Link

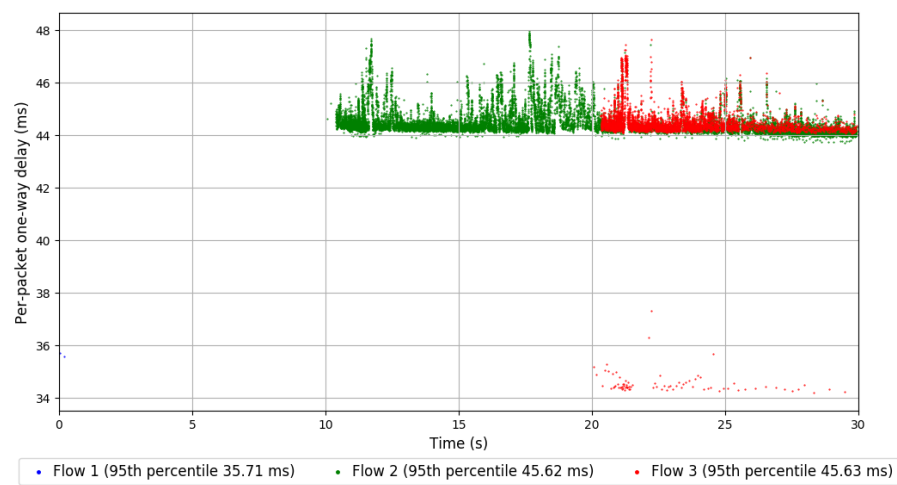
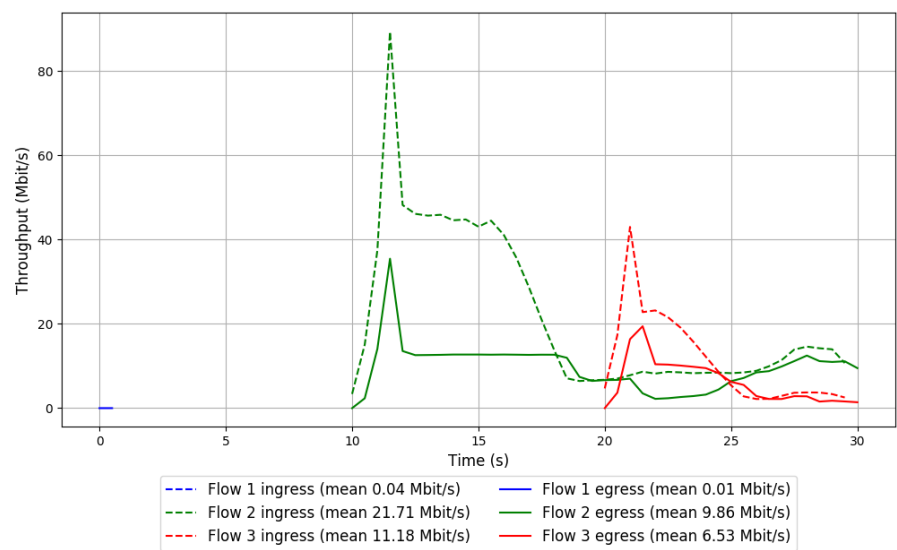


Run 4: Statistics of PCC-Expr

Start at: 2018-12-20 02:55:08
End at: 2018-12-20 02:55:38
Local clock offset: 13.074 ms
Remote clock offset: 97.995 ms

Below is generated by plot.py at 2018-12-20 03:48:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 45.627 ms
Loss rate: 51.96%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 35.706 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.86 Mbit/s
95th percentile per-packet one-way delay: 45.625 ms
Loss rate: 54.60%
-- Flow 3:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 45.632 ms
Loss rate: 41.62%

Run 4: Report of PCC-Expr — Data Link

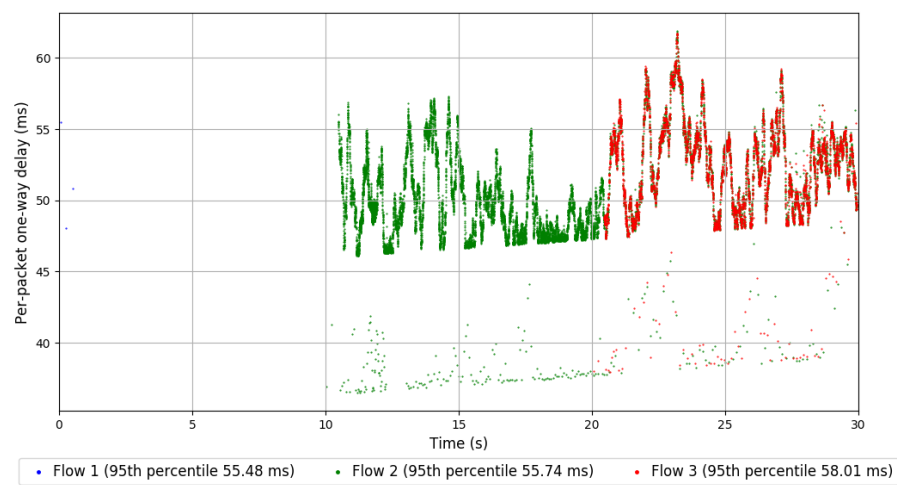
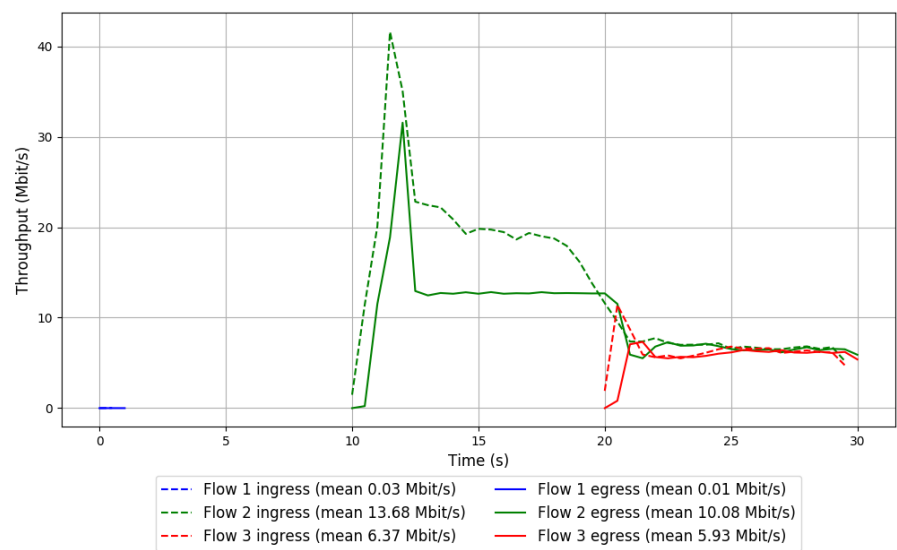


Run 5: Statistics of PCC-Expr

Start at: 2018-12-20 03:19:43
End at: 2018-12-20 03:20:13
Local clock offset: 10.027 ms
Remote clock offset: 69.202 ms

Below is generated by plot.py at 2018-12-20 03:48:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 56.296 ms
Loss rate: 22.64%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 55.478 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 55.745 ms
Loss rate: 26.28%
-- Flow 3:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 58.012 ms
Loss rate: 6.84%

Run 5: Report of PCC-Expr — Data Link

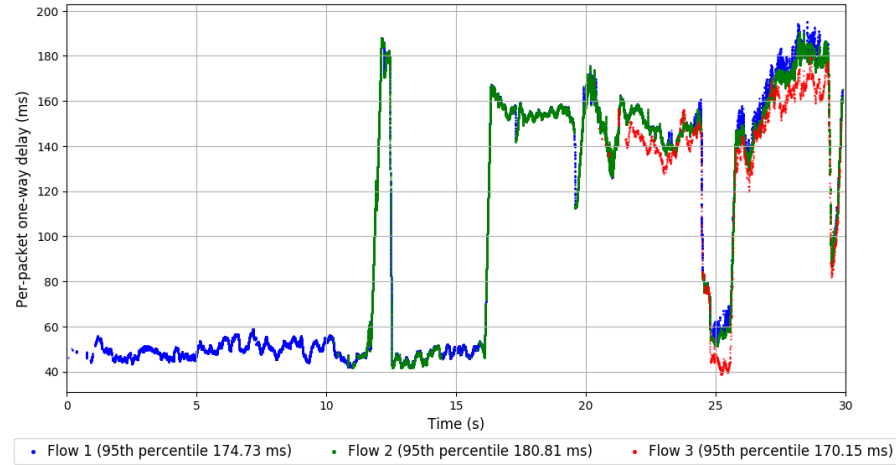
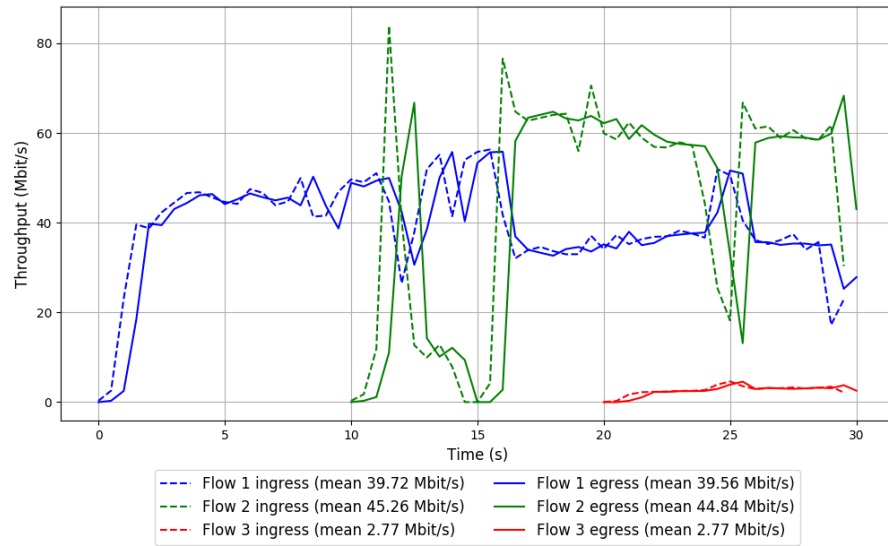


Run 1: Statistics of QUIC Cubic

Start at: 2018-12-20 01:34:34
End at: 2018-12-20 01:35:04
Local clock offset: 14.035 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-12-20 03:48:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.19 Mbit/s
95th percentile per-packet one-way delay: 178.901 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 39.56 Mbit/s
95th percentile per-packet one-way delay: 174.732 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 44.84 Mbit/s
95th percentile per-packet one-way delay: 180.805 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 170.151 ms
Loss rate: 0.64%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-12-20 01:59:19

End at: 2018-12-20 01:59:49

Local clock offset: -0.968 ms

Remote clock offset: 2.618 ms

Below is generated by plot.py at 2018-12-20 03:48:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.90 Mbit/s

95th percentile per-packet one-way delay: 183.537 ms

Loss rate: 0.13%

-- Flow 1:

Average throughput: 14.66 Mbit/s

95th percentile per-packet one-way delay: 178.300 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 37.54 Mbit/s

95th percentile per-packet one-way delay: 180.037 ms

Loss rate: 0.09%

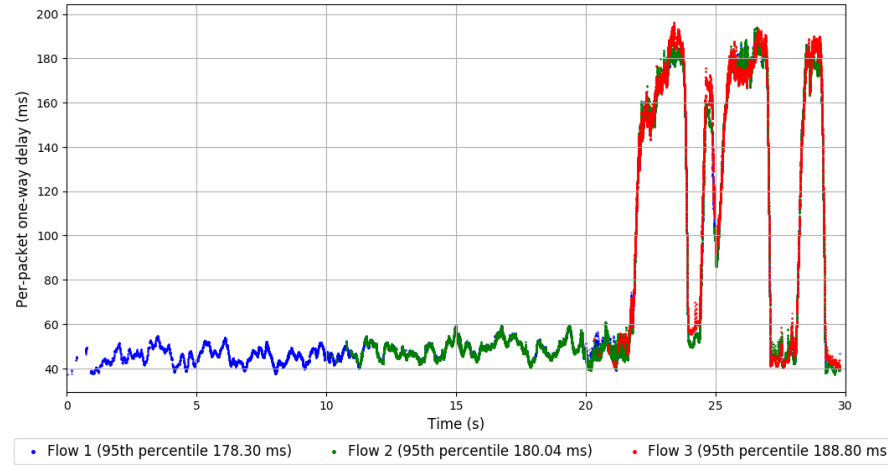
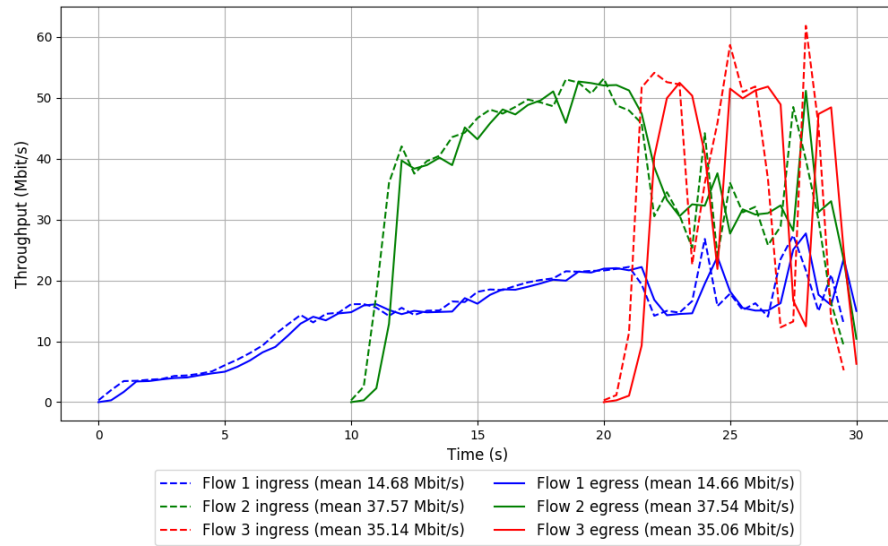
-- Flow 3:

Average throughput: 35.06 Mbit/s

95th percentile per-packet one-way delay: 188.804 ms

Loss rate: 0.29%

Run 2: Report of QUIC Cubic — Data Link

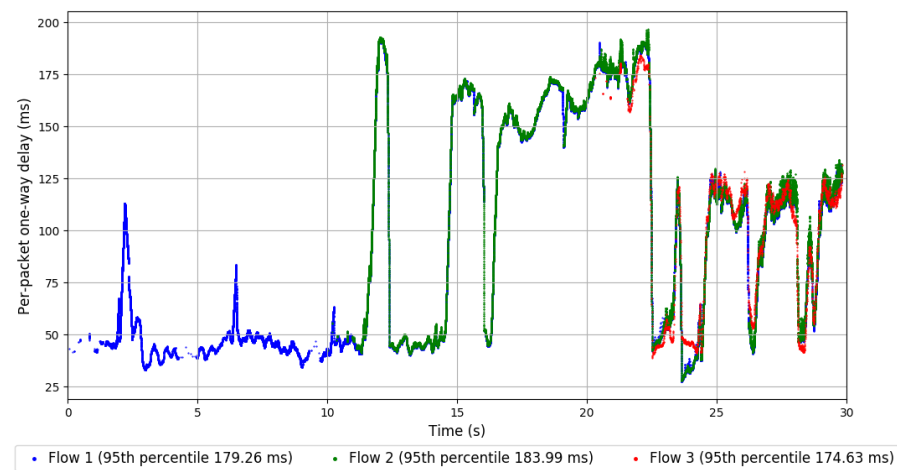
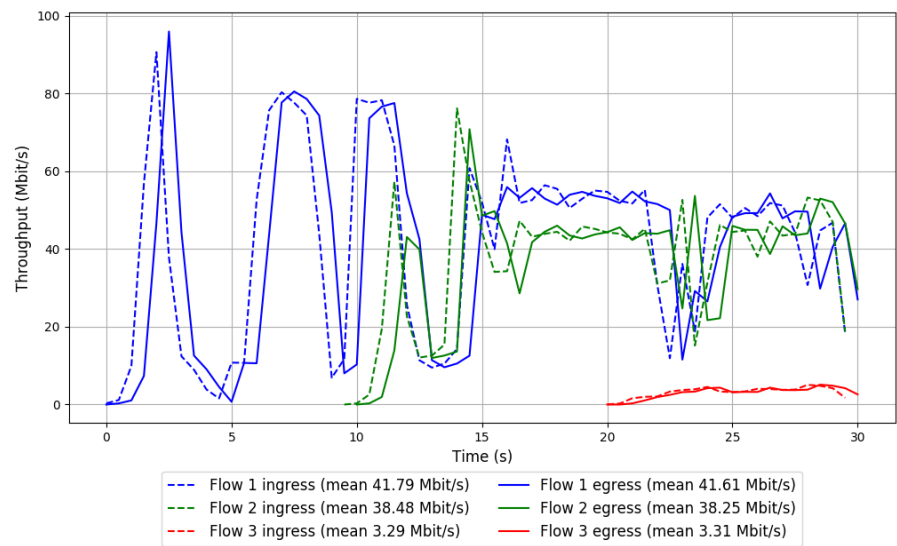


Run 3: Statistics of QUIC Cubic

Start at: 2018-12-20 02:24:25
End at: 2018-12-20 02:24:55
Local clock offset: -0.019 ms
Remote clock offset: 55.483 ms

Below is generated by plot.py at 2018-12-20 03:48:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.06 Mbit/s
95th percentile per-packet one-way delay: 180.217 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 41.61 Mbit/s
95th percentile per-packet one-way delay: 179.259 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 183.987 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 174.628 ms
Loss rate: 0.04%

Run 3: Report of QUIC Cubic — Data Link

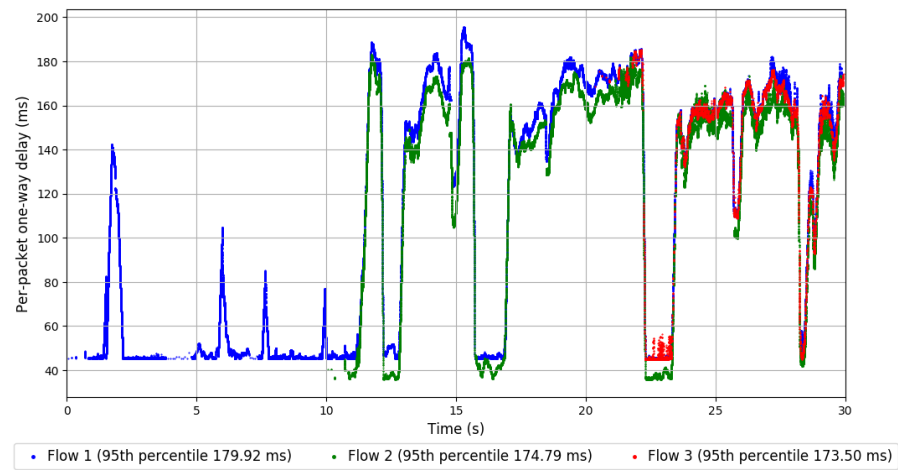
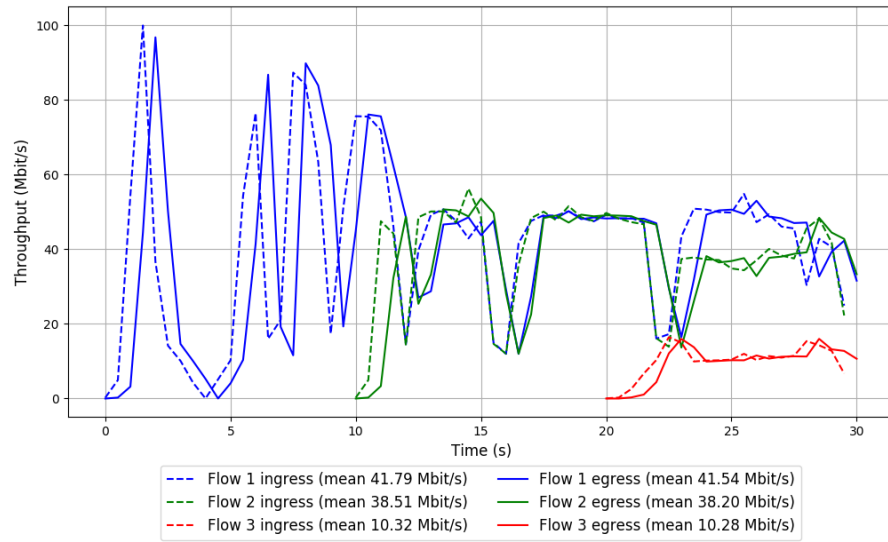


Run 4: Statistics of QUIC Cubic

Start at: 2018-12-20 02:48:51
End at: 2018-12-20 02:49:21
Local clock offset: 11.175 ms
Remote clock offset: 92.442 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.15 Mbit/s
95th percentile per-packet one-way delay: 178.073 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 41.54 Mbit/s
95th percentile per-packet one-way delay: 179.918 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 174.790 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 173.496 ms
Loss rate: 0.32%

Run 4: Report of QUIC Cubic — Data Link

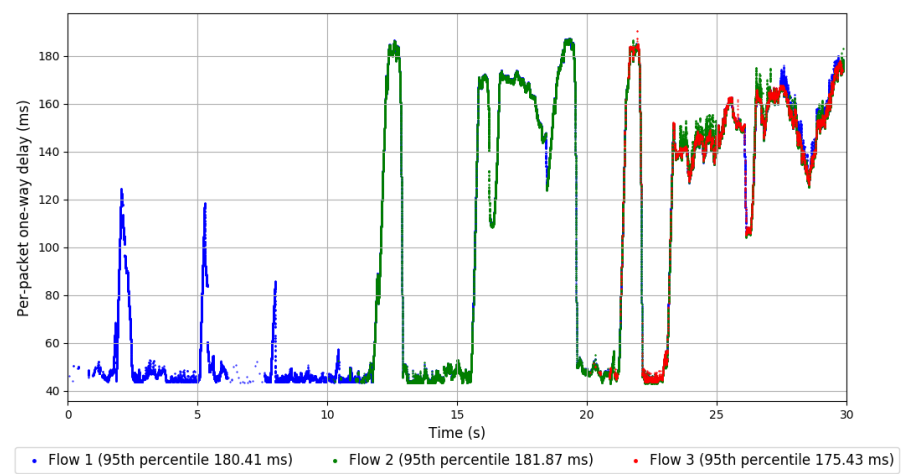
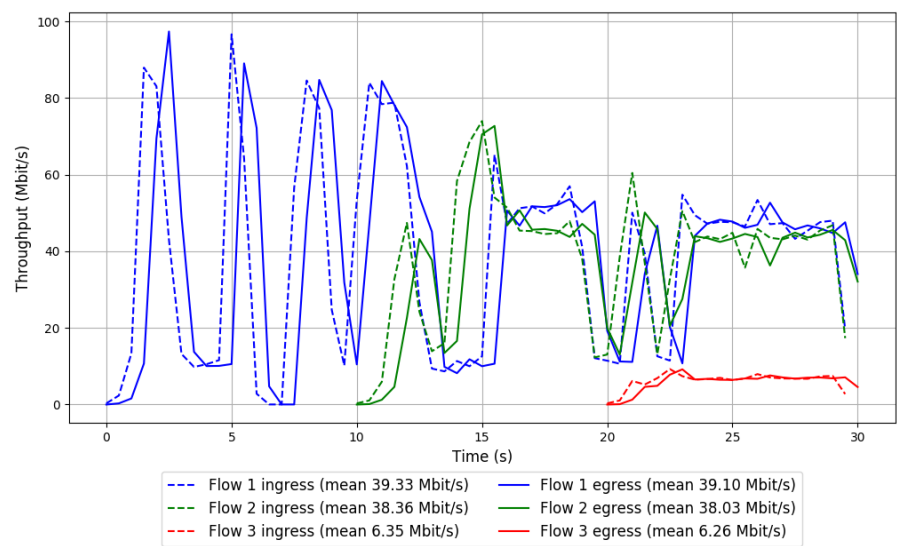


Run 5: Statistics of QUIC Cubic

Start at: 2018-12-20 03:13:10
End at: 2018-12-20 03:13:40
Local clock offset: 11.952 ms
Remote clock offset: 116.497 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.40 Mbit/s
95th percentile per-packet one-way delay: 180.996 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 180.414 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 38.03 Mbit/s
95th percentile per-packet one-way delay: 181.872 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 175.427 ms
Loss rate: 0.76%

Run 5: Report of QUIC Cubic — Data Link

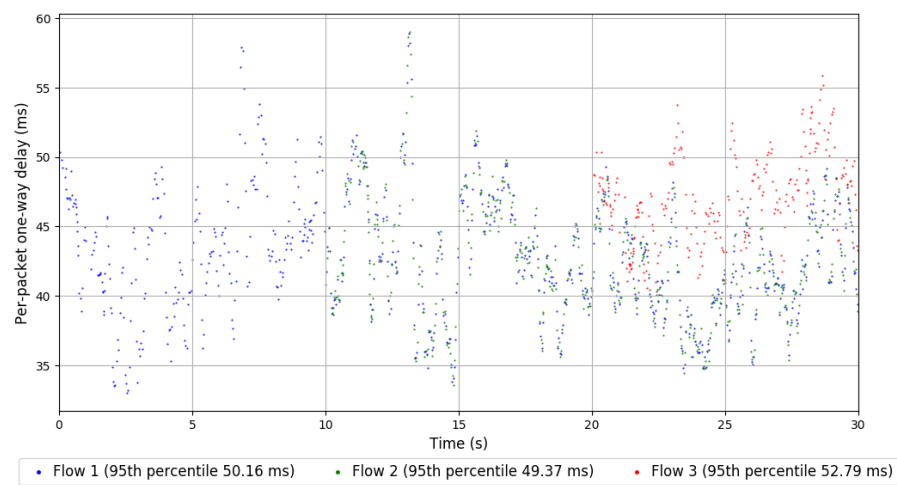
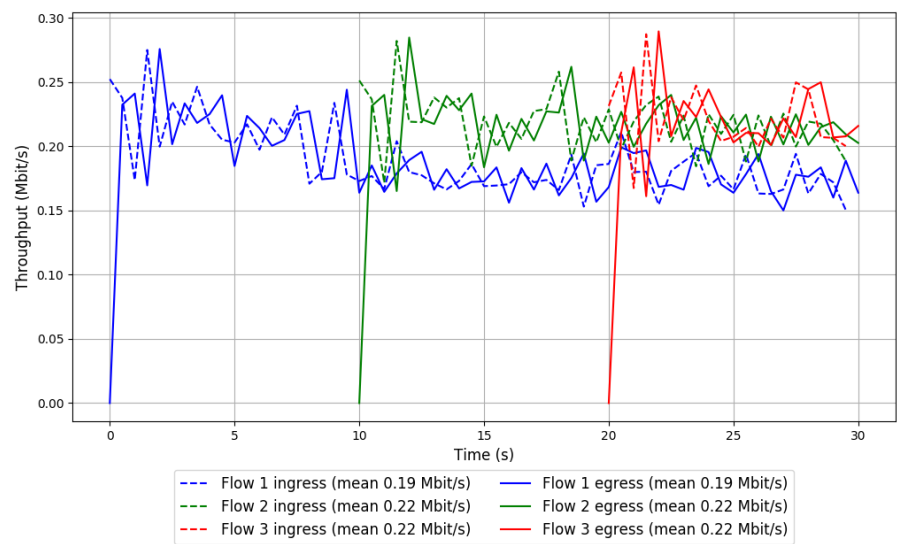


```
Run 1: Statistics of SReAM

Start at: 2018-12-20 01:35:54
End at: 2018-12-20 01:36:24
Local clock offset: 13.209 ms
Remote clock offset: -2.61 ms

# Below is generated by plot.py at 2018-12-20 03:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 50.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 50.161 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.370 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 52.790 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

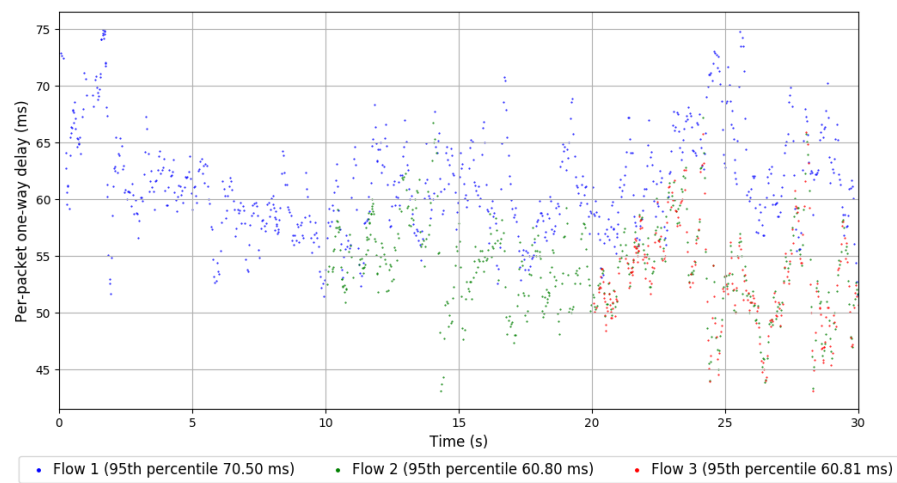
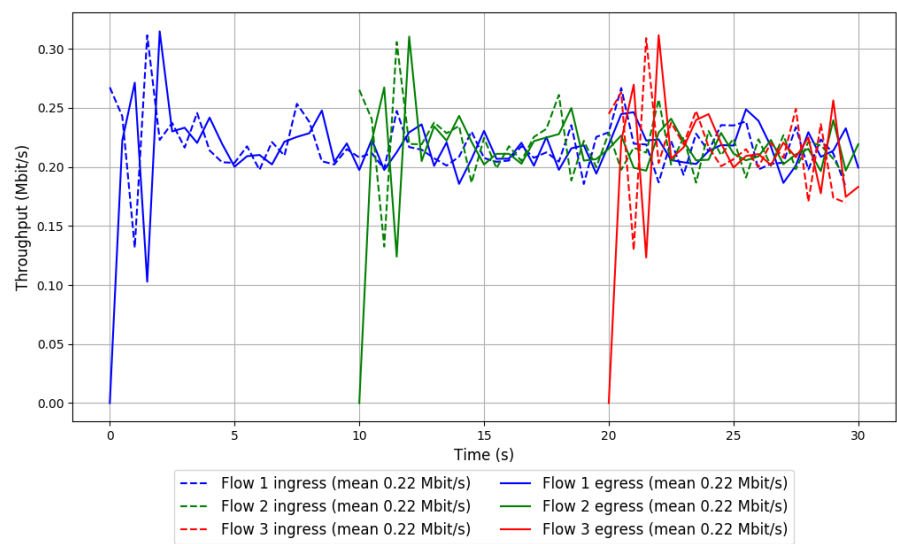


Run 2: Statistics of SReAM

Start at: 2018-12-20 02:00:38
End at: 2018-12-20 02:01:08
Local clock offset: -0.881 ms
Remote clock offset: 7.752 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 67.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.502 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.805 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.811 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

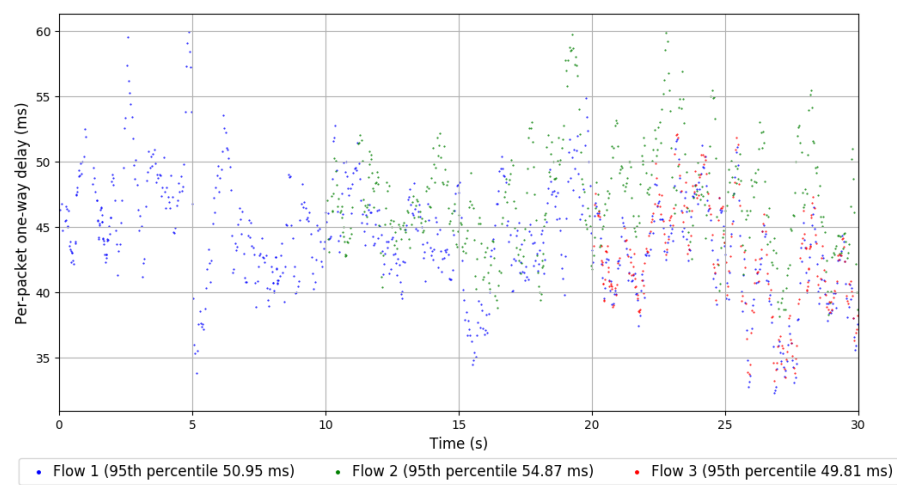
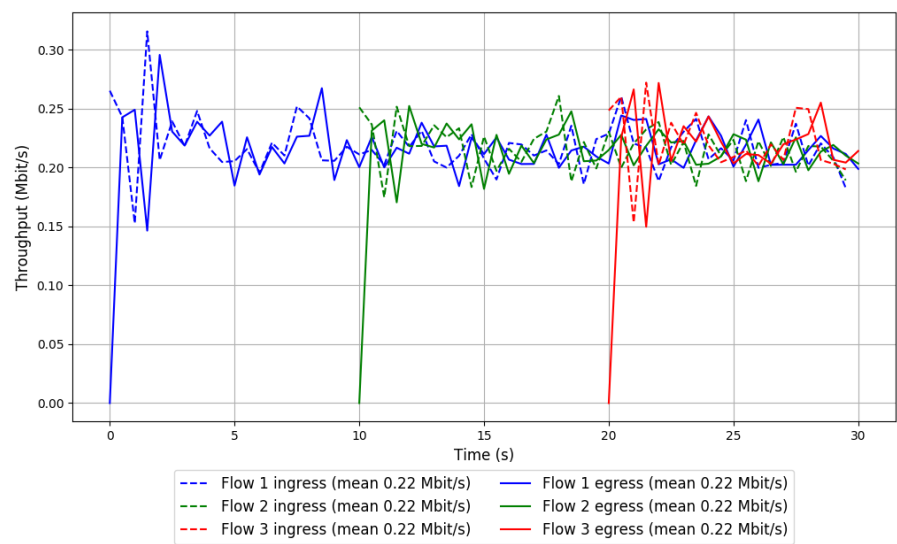


Run 3: Statistics of SReAM

Start at: 2018-12-20 02:25:45
End at: 2018-12-20 02:26:15
Local clock offset: -0.489 ms
Remote clock offset: 59.039 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 52.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.951 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.869 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.814 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

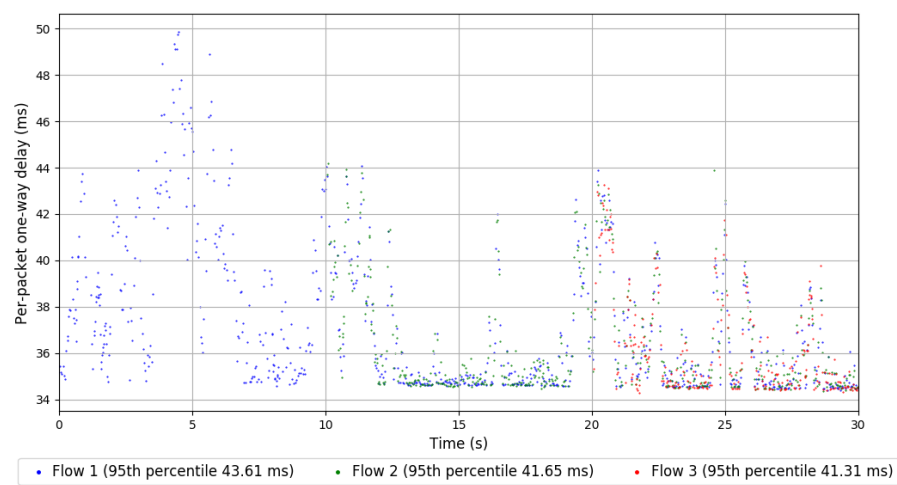
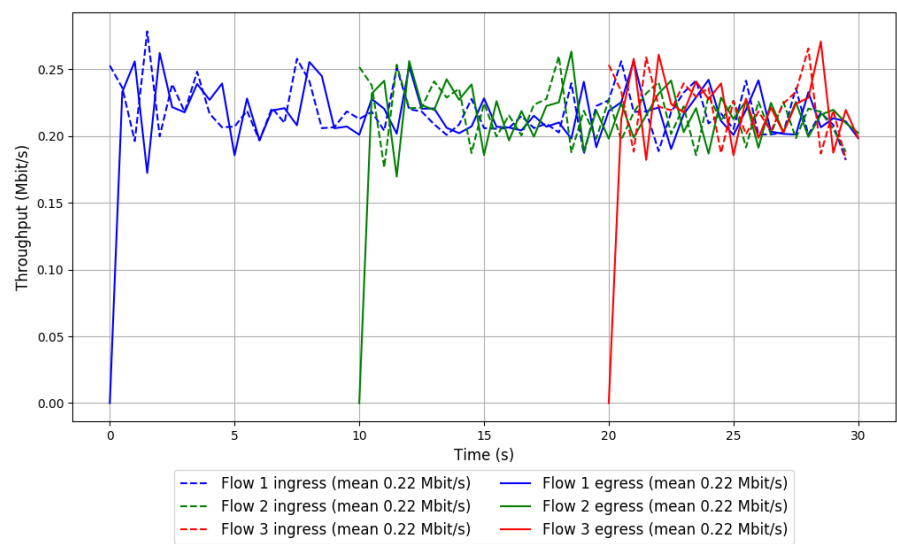


Run 4: Statistics of SReAM

Start at: 2018-12-20 02:50:09
End at: 2018-12-20 02:50:39
Local clock offset: 11.93 ms
Remote clock offset: 92.858 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 42.608 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 43.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 41.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 41.313 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

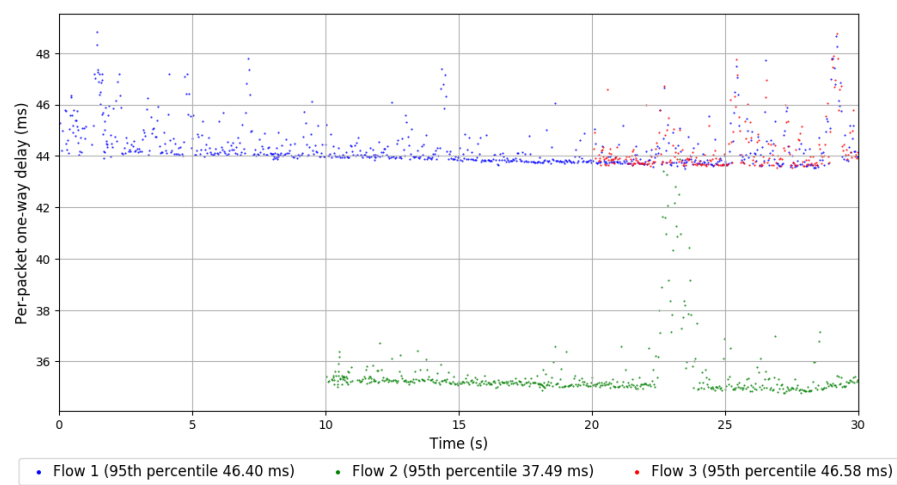
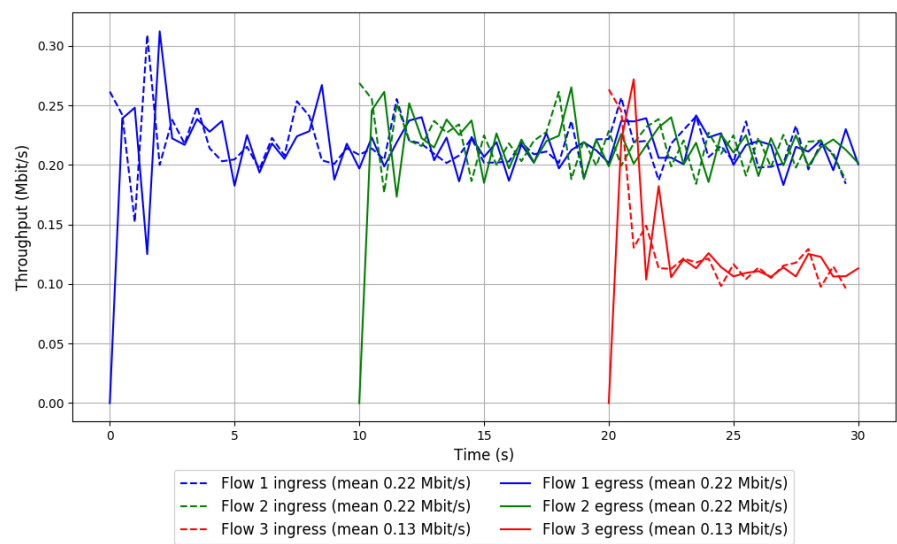


Run 5: Statistics of SReAM

Start at: 2018-12-20 03:14:30
End at: 2018-12-20 03:15:00
Local clock offset: 10.951 ms
Remote clock offset: 117.73 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 45.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 46.397 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.491 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 46.581 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

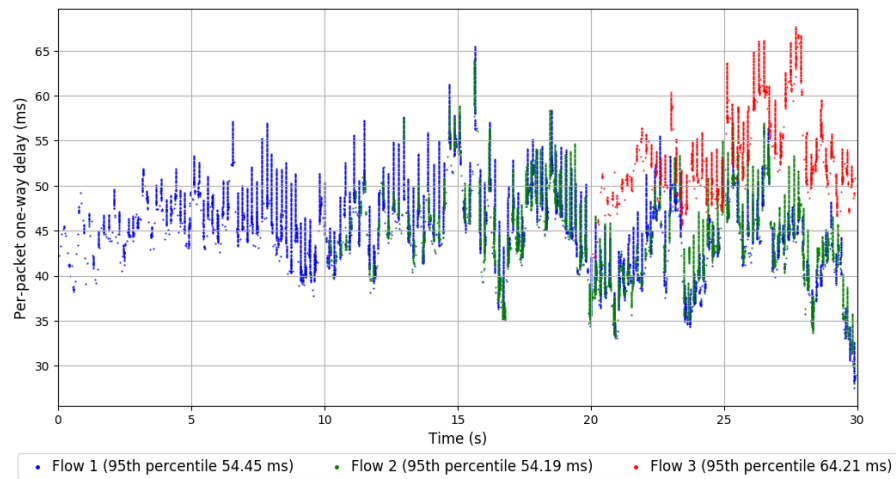
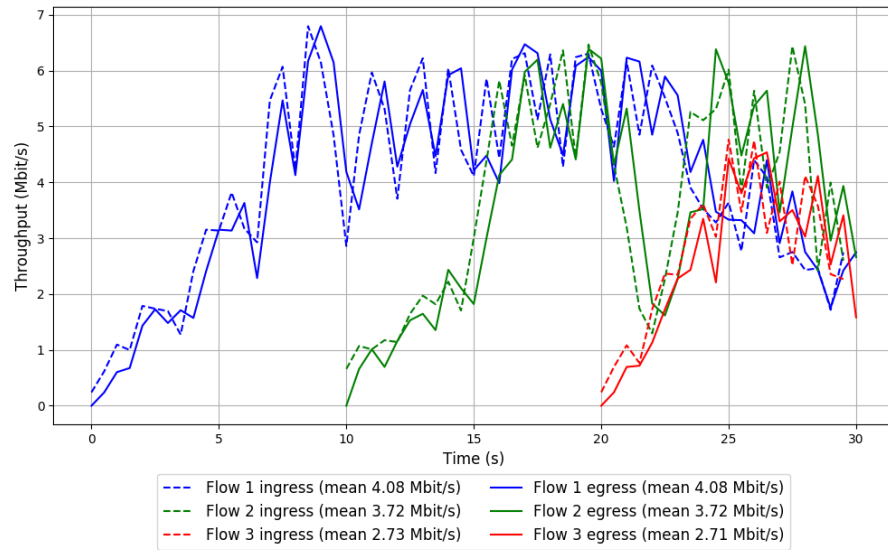


Run 1: Statistics of Sprout

Start at: 2018-12-20 01:38:29
End at: 2018-12-20 01:38:59
Local clock offset: 10.51 ms
Remote clock offset: -2.166 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 56.850 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 4.08 Mbit/s
95th percentile per-packet one-way delay: 54.449 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 54.194 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 2.71 Mbit/s
95th percentile per-packet one-way delay: 64.214 ms
Loss rate: 1.27%

Run 1: Report of Sprout — Data Link

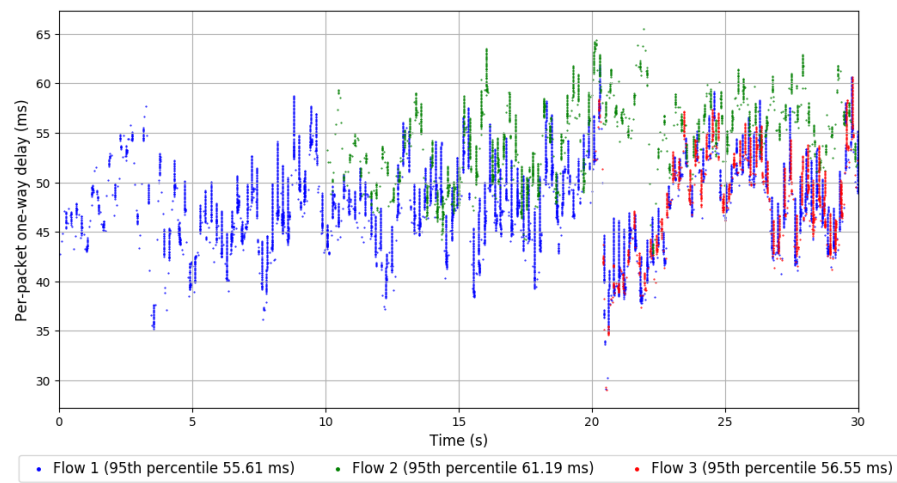
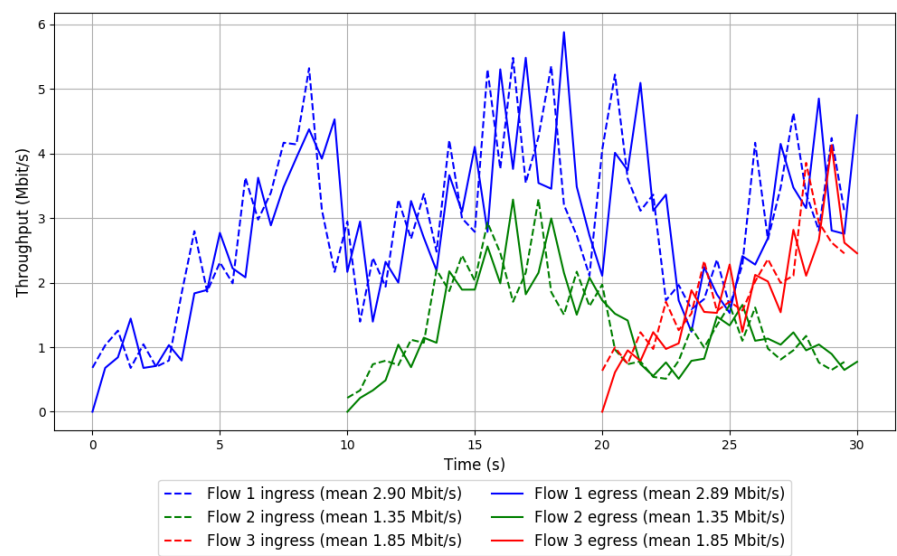


Run 2: Statistics of Sprout

Start at: 2018-12-20 02:03:13
End at: 2018-12-20 02:03:43
Local clock offset: -1.058 ms
Remote clock offset: -0.315 ms

```
# Below is generated by plot.py at 2018-12-20 03:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 58.055 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 55.614 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 61.190 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 56.554 ms
Loss rate: 0.06%
```

Run 2: Report of Sprout — Data Link

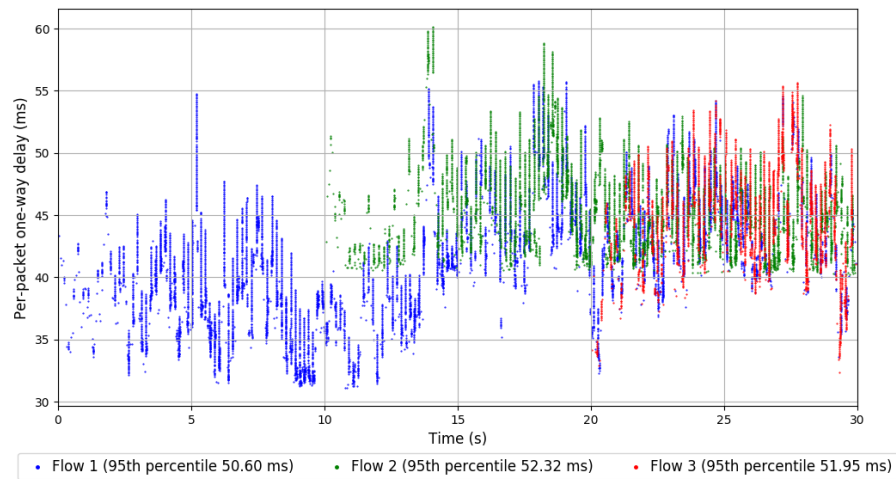
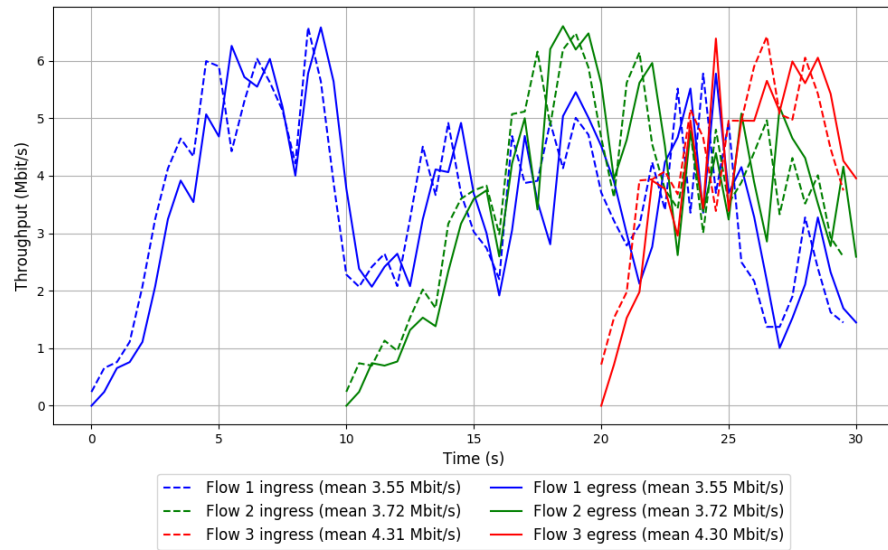


Run 3: Statistics of Sprout

Start at: 2018-12-20 02:28:19
End at: 2018-12-20 02:28:49
Local clock offset: -0.479 ms
Remote clock offset: 64.762 ms

```
# Below is generated by plot.py at 2018-12-20 03:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.45 Mbit/s
95th percentile per-packet one-way delay: 51.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 50.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 52.317 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 51.955 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

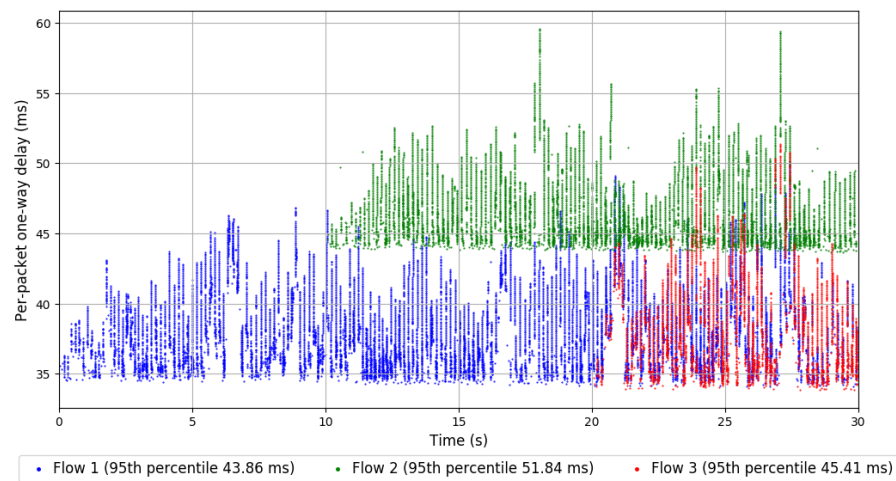
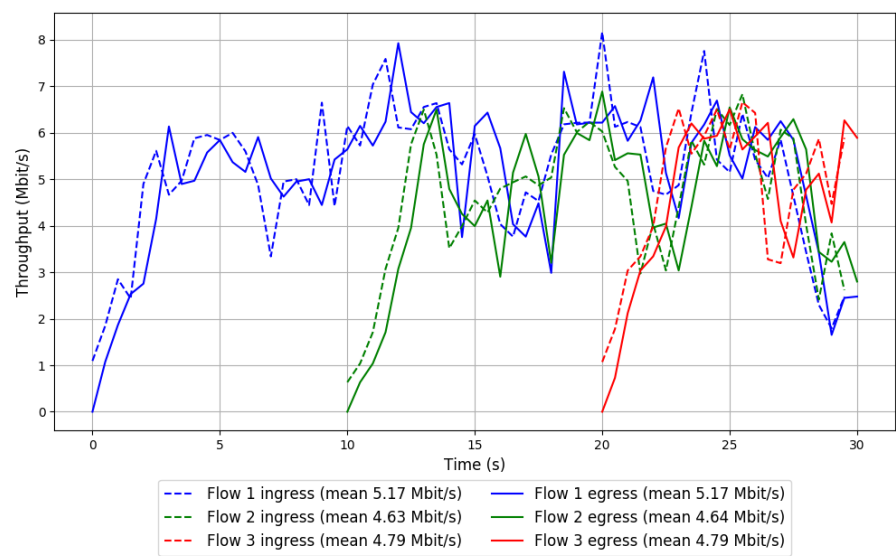


Run 4: Statistics of Sprout

Start at: 2018-12-20 02:52:39
End at: 2018-12-20 02:53:09
Local clock offset: 13.235 ms
Remote clock offset: 95.757 ms

```
# Below is generated by plot.py at 2018-12-20 03:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.84 Mbit/s
95th percentile per-packet one-way delay: 49.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 43.857 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 51.843 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 45.411 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

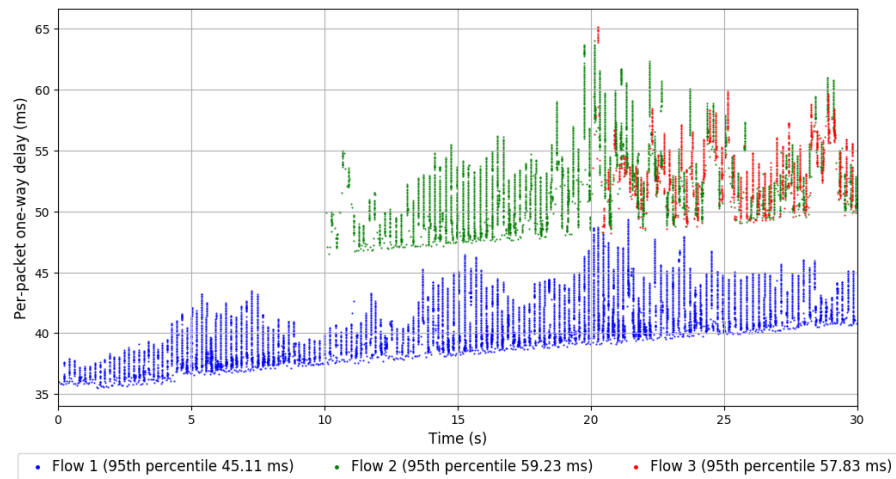
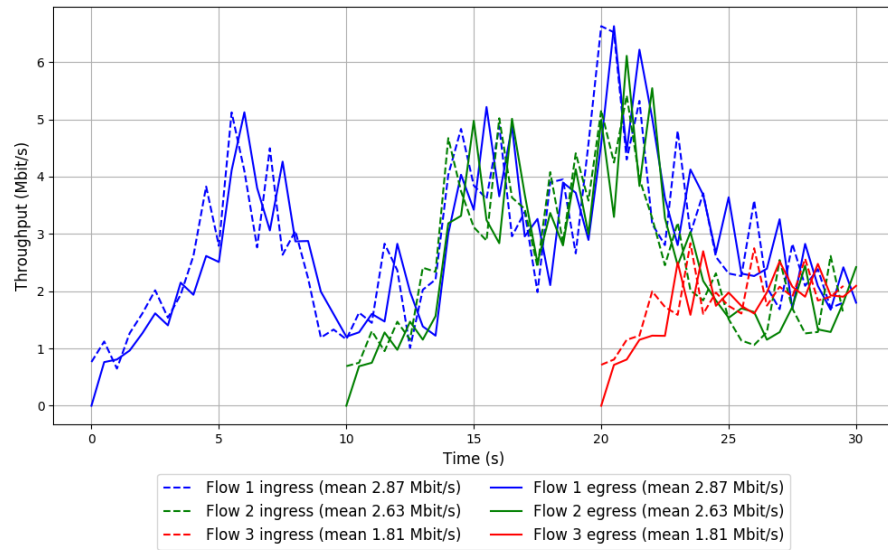


Run 5: Statistics of Sprout

Start at: 2018-12-20 03:17:06
End at: 2018-12-20 03:17:36
Local clock offset: 11.161 ms
Remote clock offset: 94.348 ms

```
# Below is generated by plot.py at 2018-12-20 03:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 56.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 45.110 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 59.234 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 57.830 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

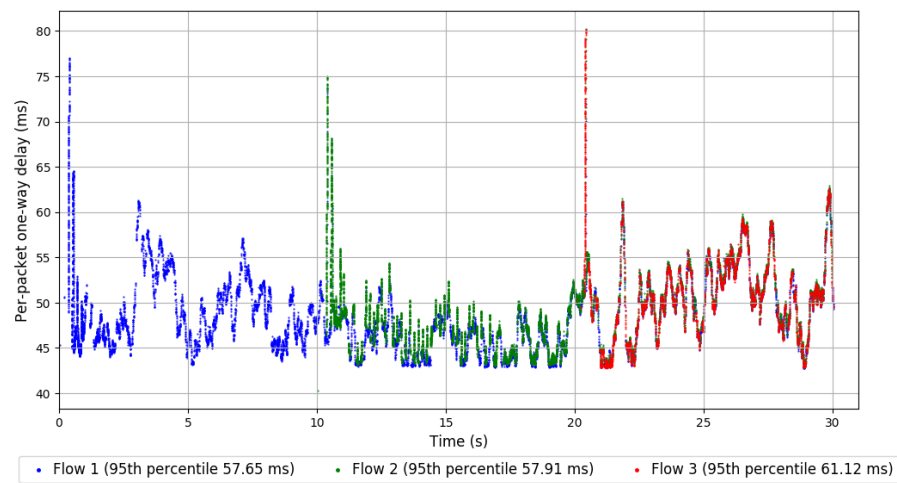
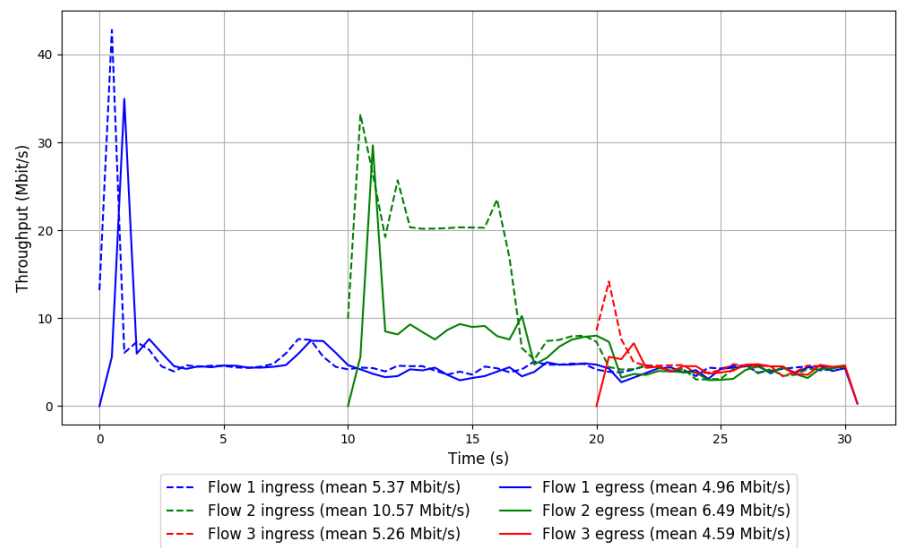


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-12-20 01:46:07
End at: 2018-12-20 01:46:37
Local clock offset: 4.845 ms
Remote clock offset: 4.735 ms

# Below is generated by plot.py at 2018-12-20 03:48:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 58.257 ms
Loss rate: 23.75%
-- Flow 1:
Average throughput: 4.96 Mbit/s
95th percentile per-packet one-way delay: 57.646 ms
Loss rate: 7.60%
-- Flow 2:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 57.912 ms
Loss rate: 38.75%
-- Flow 3:
Average throughput: 4.59 Mbit/s
95th percentile per-packet one-way delay: 61.122 ms
Loss rate: 12.95%
```

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

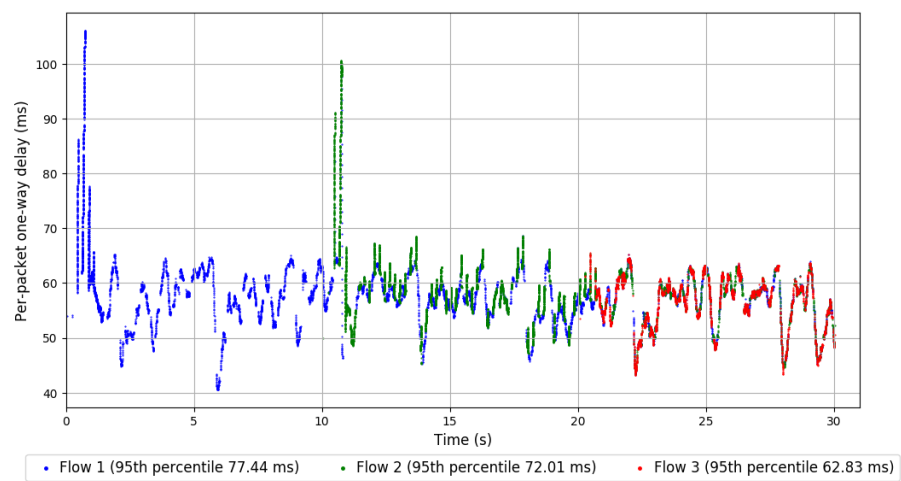
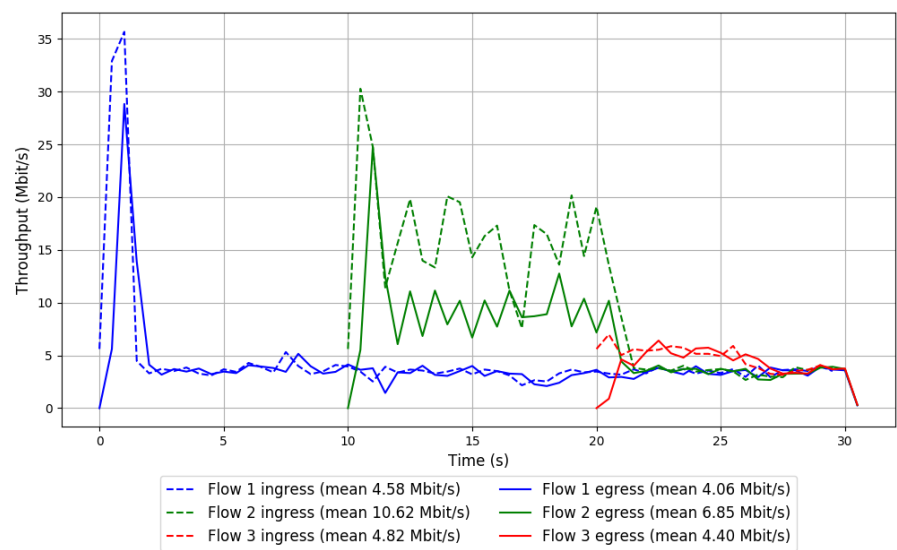


Run 2: Statistics of TaoVA-100x

Start at: 2018-12-20 02:10:59
End at: 2018-12-20 02:11:29
Local clock offset: -0.912 ms
Remote clock offset: 18.052 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.08 Mbit/s
95th percentile per-packet one-way delay: 72.447 ms
Loss rate: 23.95%
-- Flow 1:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 77.443 ms
Loss rate: 11.26%
-- Flow 2:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 72.008 ms
Loss rate: 35.57%
-- Flow 3:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 62.828 ms
Loss rate: 8.88%

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

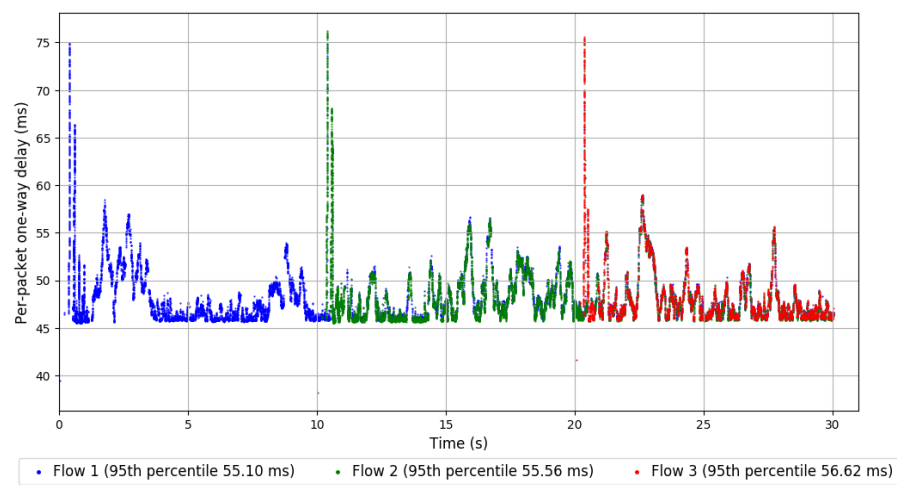
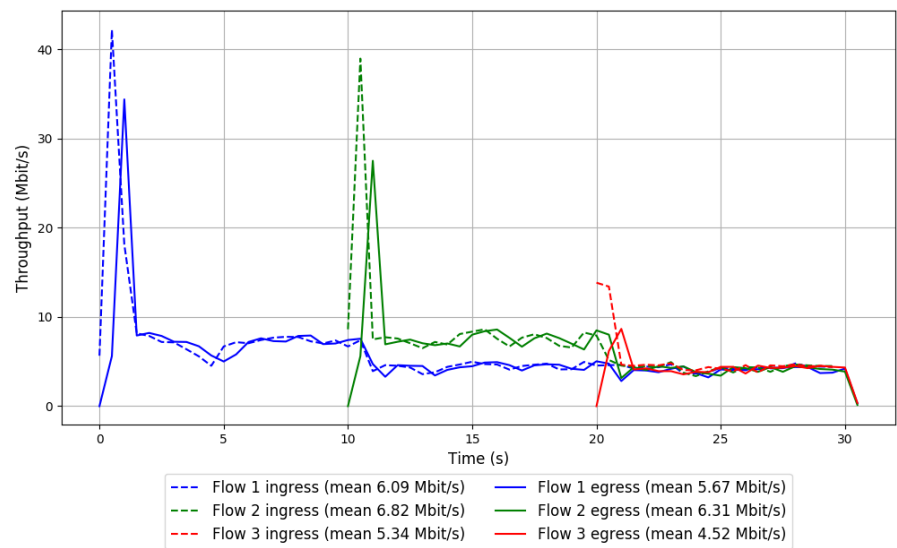


Run 3: Statistics of TaoVA-100x

Start at: 2018-12-20 02:35:54
End at: 2018-12-20 02:36:24
Local clock offset: -1.407 ms
Remote clock offset: 77.545 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 55.456 ms
Loss rate: 8.32%
-- Flow 1:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 55.100 ms
Loss rate: 6.98%
-- Flow 2:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 55.558 ms
Loss rate: 7.41%
-- Flow 3:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 56.624 ms
Loss rate: 15.23%

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

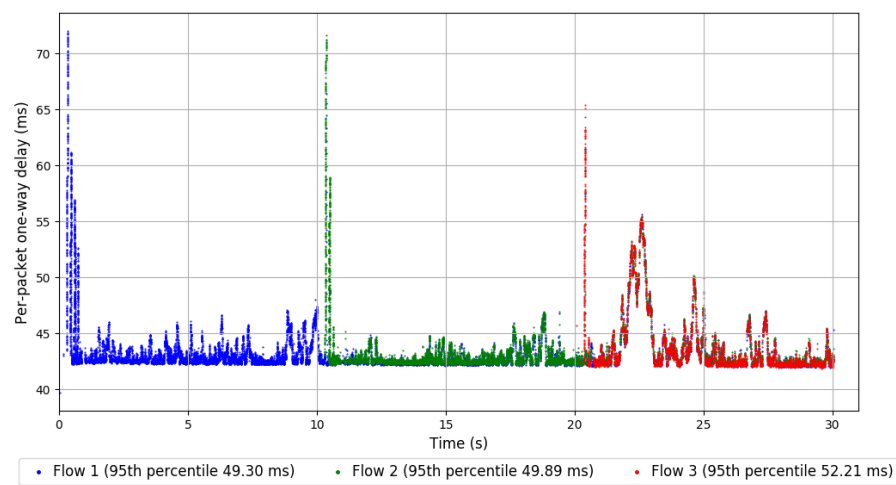
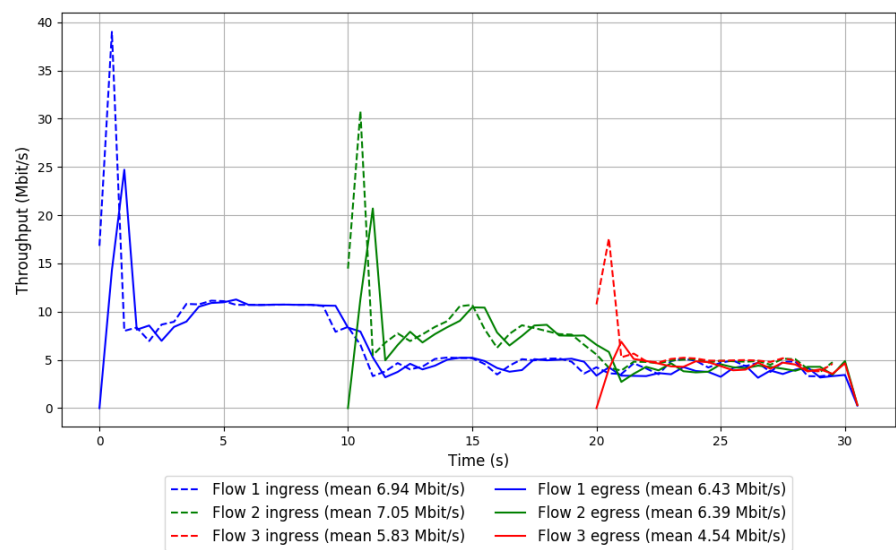


Run 4: Statistics of TaoVA-100x

Start at: 2018-12-20 03:00:05
End at: 2018-12-20 03:00:35
Local clock offset: 14.583 ms
Remote clock offset: 101.513 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 50.097 ms
Loss rate: 10.16%
-- Flow 1:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 49.297 ms
Loss rate: 7.33%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 49.892 ms
Loss rate: 9.38%
-- Flow 3:
Average throughput: 4.54 Mbit/s
95th percentile per-packet one-way delay: 52.211 ms
Loss rate: 22.19%

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

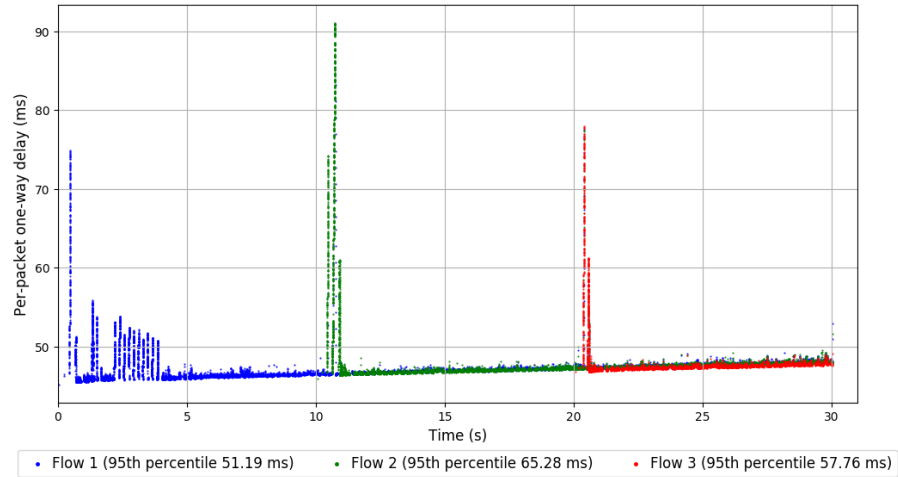
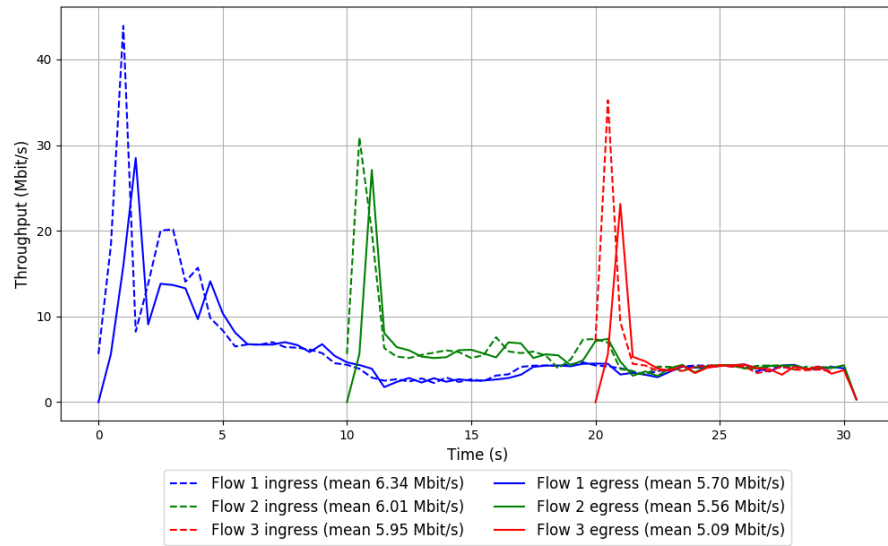


Run 5: Statistics of TaoVA-100x

Start at: 2018-12-20 03:24:54
End at: 2018-12-20 03:25:24
Local clock offset: 9.579 ms
Remote clock offset: 37.399 ms

Below is generated by plot.py at 2018-12-20 03:48:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.09 Mbit/s
95th percentile per-packet one-way delay: 54.339 ms
Loss rate: 10.05%
-- Flow 1:
Average throughput: 5.70 Mbit/s
95th percentile per-packet one-way delay: 51.189 ms
Loss rate: 10.16%
-- Flow 2:
Average throughput: 5.56 Mbit/s
95th percentile per-packet one-way delay: 65.276 ms
Loss rate: 7.61%
-- Flow 3:
Average throughput: 5.09 Mbit/s
95th percentile per-packet one-way delay: 57.761 ms
Loss rate: 14.62%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-12-20 01:55:20

End at: 2018-12-20 01:55:50

Local clock offset: 0.492 ms

Remote clock offset: 2.223 ms

Below is generated by plot.py at 2018-12-20 03:48:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 59.984 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 50.139 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 23.25 Mbit/s

95th percentile per-packet one-way delay: 60.748 ms

Loss rate: 0.05%

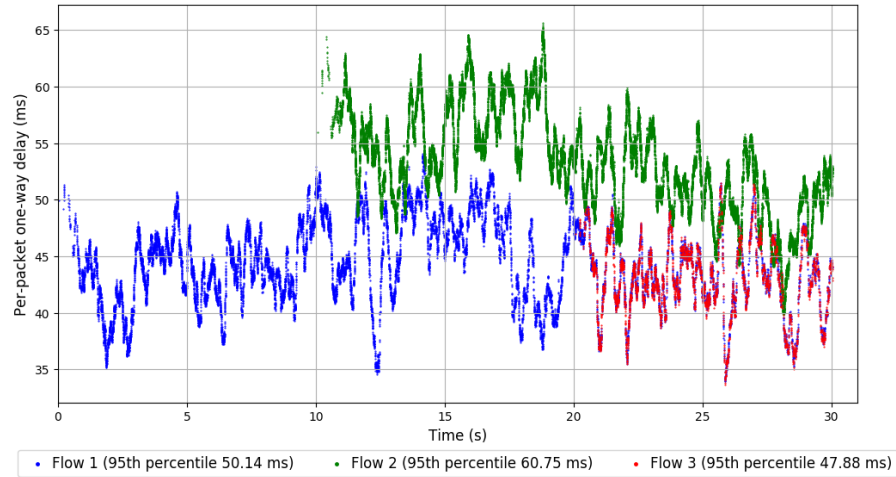
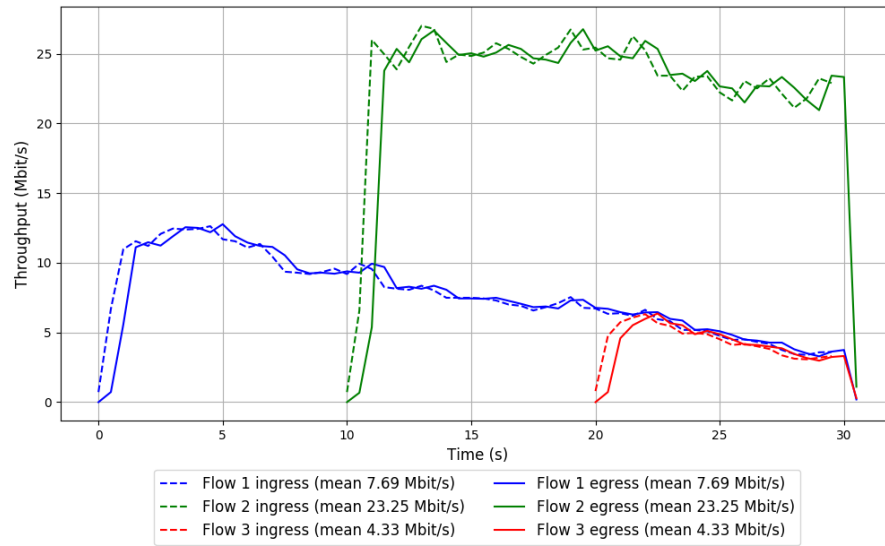
-- Flow 3:

Average throughput: 4.33 Mbit/s

95th percentile per-packet one-way delay: 47.877 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

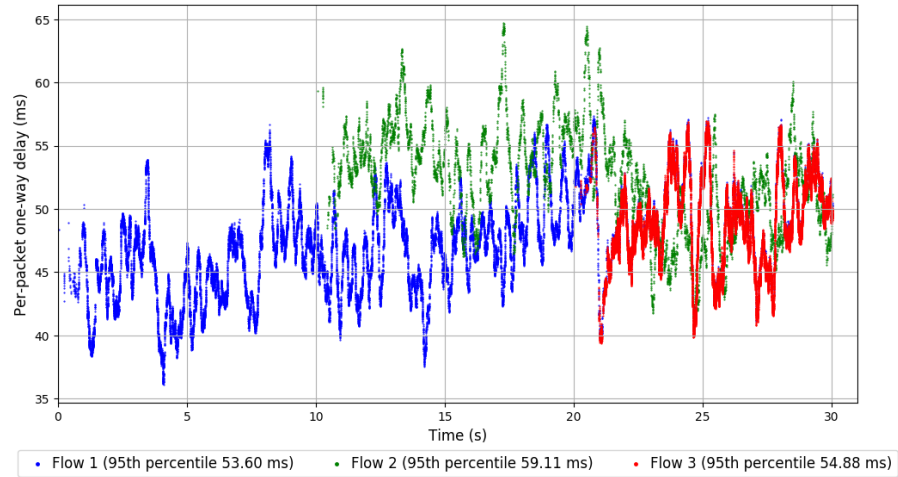
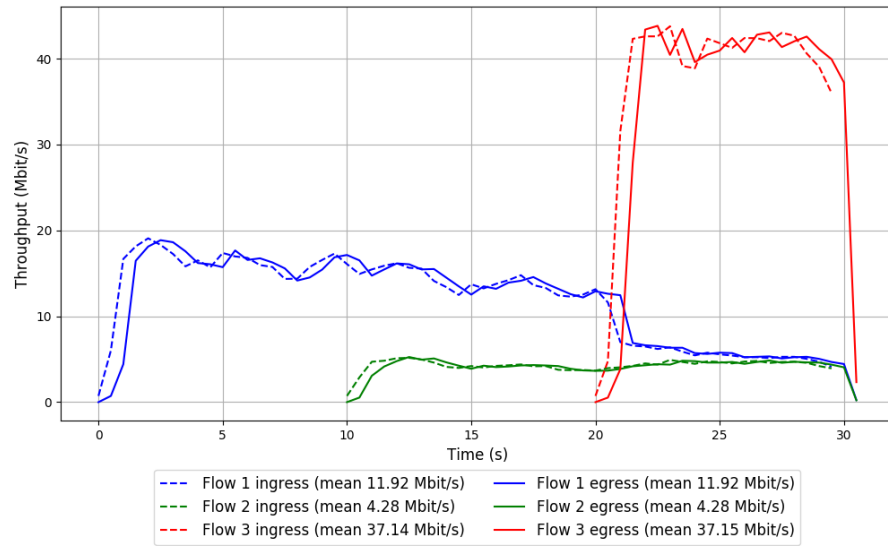


Run 2: Statistics of TCP Vegas

Start at: 2018-12-20 02:20:23
End at: 2018-12-20 02:20:53
Local clock offset: -0.055 ms
Remote clock offset: 47.025 ms

Below is generated by plot.py at 2018-12-20 03:48:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 27.10 Mbit/s
95th percentile per-packet one-way delay: 55.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 53.601 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 59.112 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 54.875 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

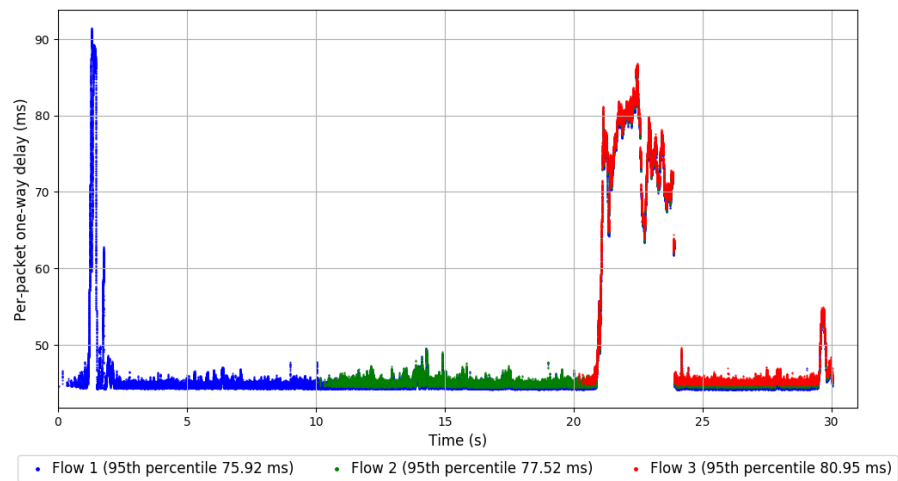
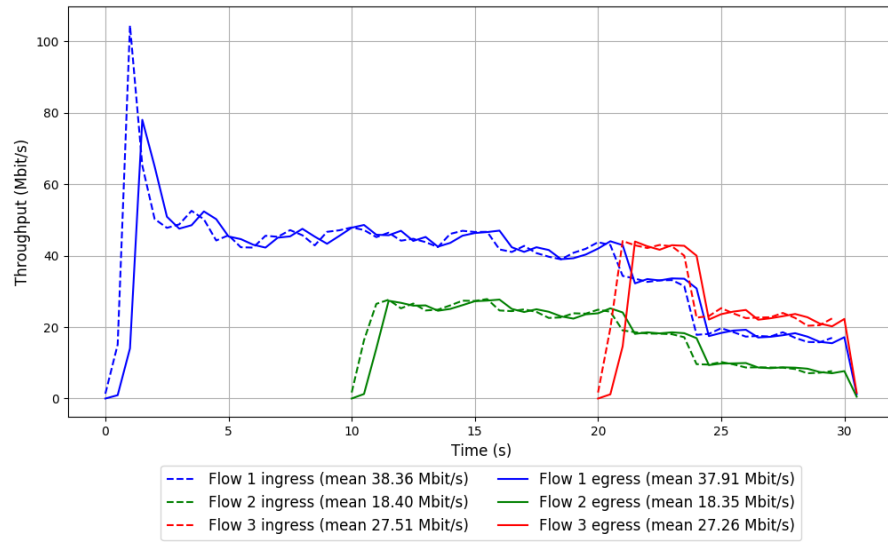


Run 3: Statistics of TCP Vegas

Start at: 2018-12-20 02:44:55
End at: 2018-12-20 02:45:25
Local clock offset: 8.88 ms
Remote clock offset: 87.235 ms

Below is generated by plot.py at 2018-12-20 03:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 79.063 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 37.91 Mbit/s
95th percentile per-packet one-way delay: 75.924 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 18.35 Mbit/s
95th percentile per-packet one-way delay: 77.524 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 27.26 Mbit/s
95th percentile per-packet one-way delay: 80.949 ms
Loss rate: 0.92%

Run 3: Report of TCP Vegas — Data Link

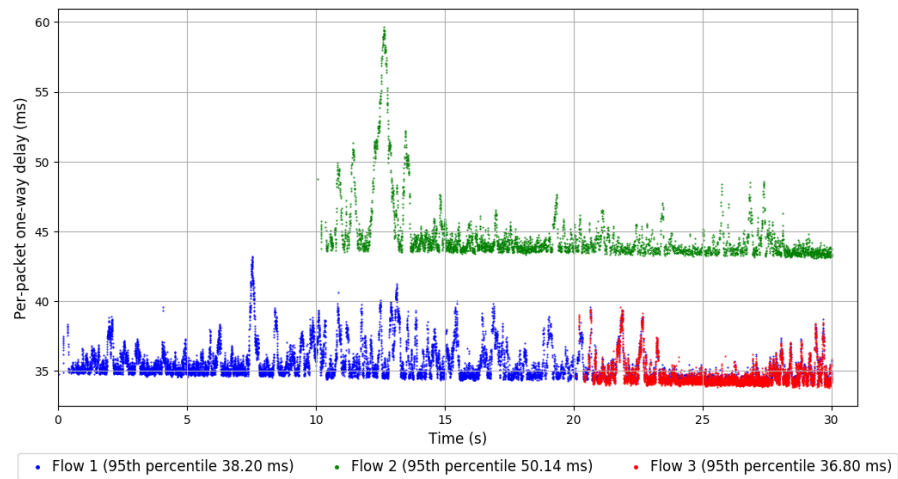
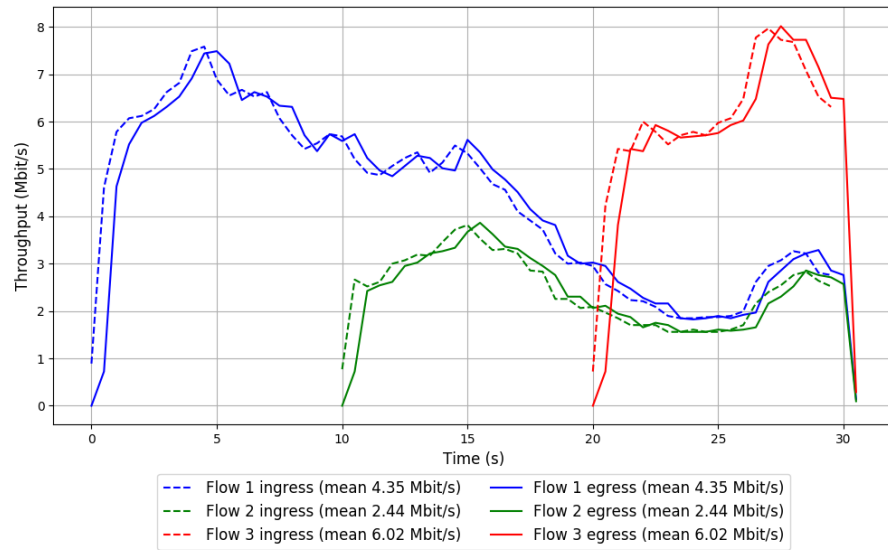


Run 4: Statistics of TCP Vegas

Start at: 2018-12-20 03:09:10
End at: 2018-12-20 03:09:40
Local clock offset: 13.024 ms
Remote clock offset: 112.019 ms

Below is generated by plot.py at 2018-12-20 03:49:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 44.747 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 38.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 50.137 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 36.797 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-12-20 03:34:16

End at: 2018-12-20 03:34:46

Local clock offset: 9.084 ms

Remote clock offset: 5.696 ms

Below is generated by plot.py at 2018-12-20 03:49:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.14 Mbit/s

95th percentile per-packet one-way delay: 86.159 ms

Loss rate: 2.12%

-- Flow 1:

Average throughput: 43.69 Mbit/s

95th percentile per-packet one-way delay: 79.943 ms

Loss rate: 2.16%

-- Flow 2:

Average throughput: 12.74 Mbit/s

95th percentile per-packet one-way delay: 54.954 ms

Loss rate: 0.66%

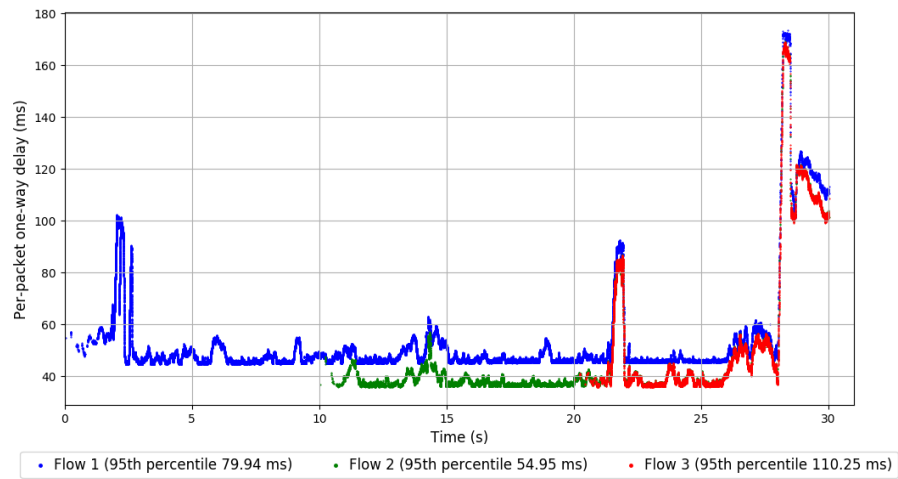
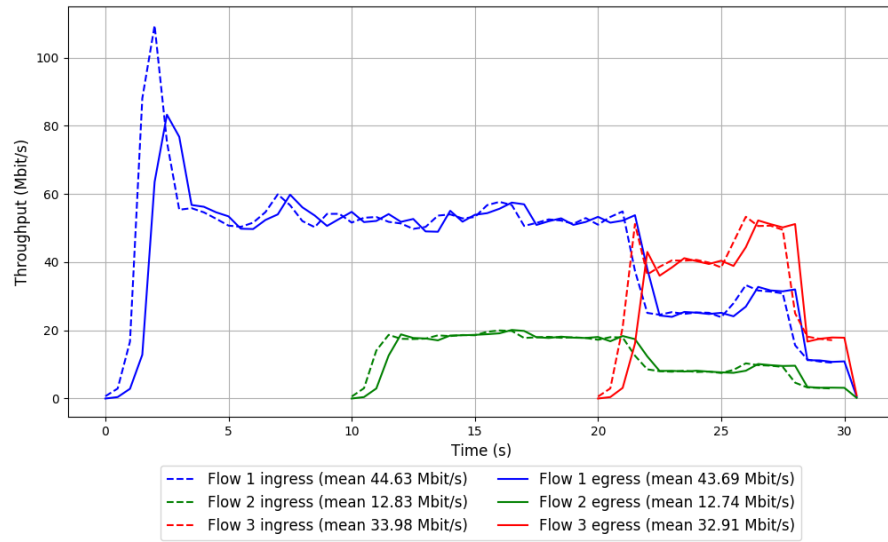
-- Flow 3:

Average throughput: 32.91 Mbit/s

95th percentile per-packet one-way delay: 110.251 ms

Loss rate: 3.09%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-12-20 01:48:42

End at: 2018-12-20 01:49:12

Local clock offset: 2.848 ms

Remote clock offset: 5.12 ms

Below is generated by plot.py at 2018-12-20 03:49:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 79.19 Mbit/s

95th percentile per-packet one-way delay: 194.022 ms

Loss rate: 12.95%

-- Flow 1:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 194.367 ms

Loss rate: 11.21%

-- Flow 2:

Average throughput: 15.14 Mbit/s

95th percentile per-packet one-way delay: 188.330 ms

Loss rate: 13.99%

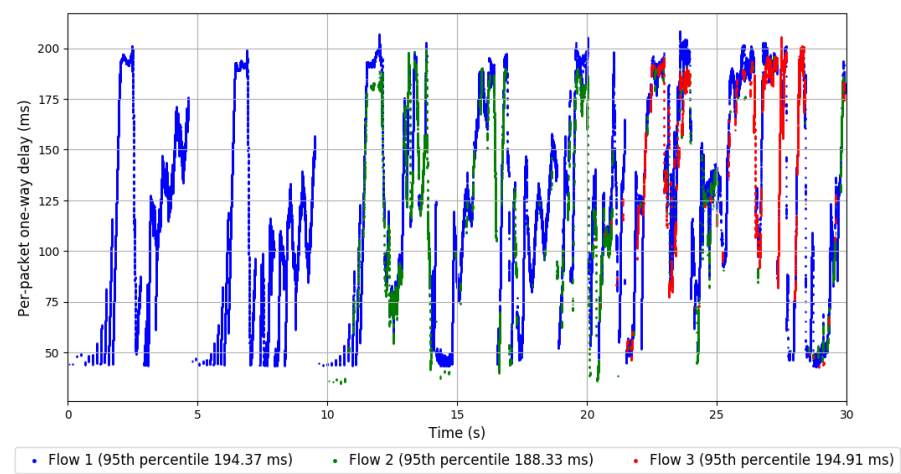
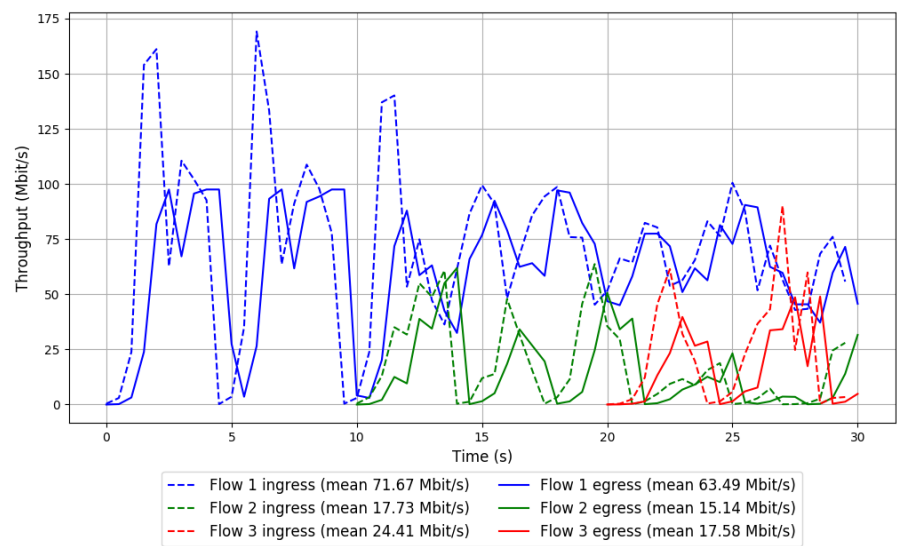
-- Flow 3:

Average throughput: 17.58 Mbit/s

95th percentile per-packet one-way delay: 194.905 ms

Loss rate: 27.41%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-12-20 02:13:39

End at: 2018-12-20 02:14:09

Local clock offset: 0.126 ms

Remote clock offset: 30.21 ms

Below is generated by plot.py at 2018-12-20 03:49:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 64.79 Mbit/s

95th percentile per-packet one-way delay: 205.970 ms

Loss rate: 12.94%

-- Flow 1:

Average throughput: 31.84 Mbit/s

95th percentile per-packet one-way delay: 206.696 ms

Loss rate: 12.43%

-- Flow 2:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 206.316 ms

Loss rate: 16.07%

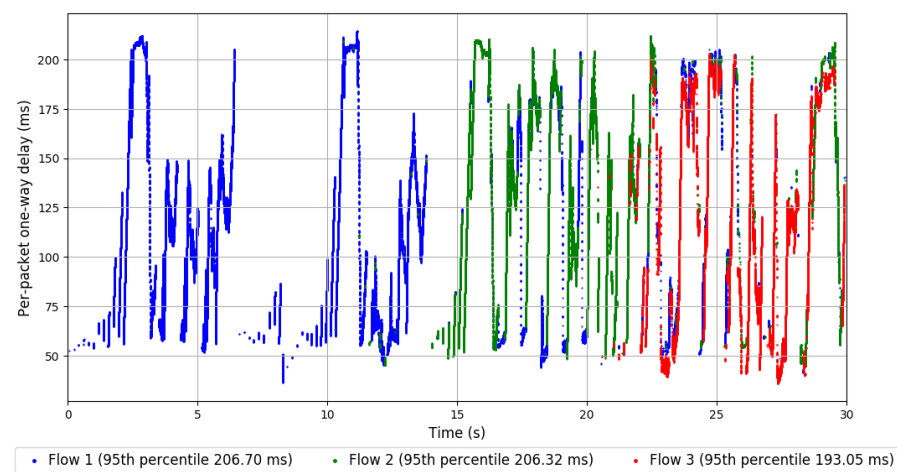
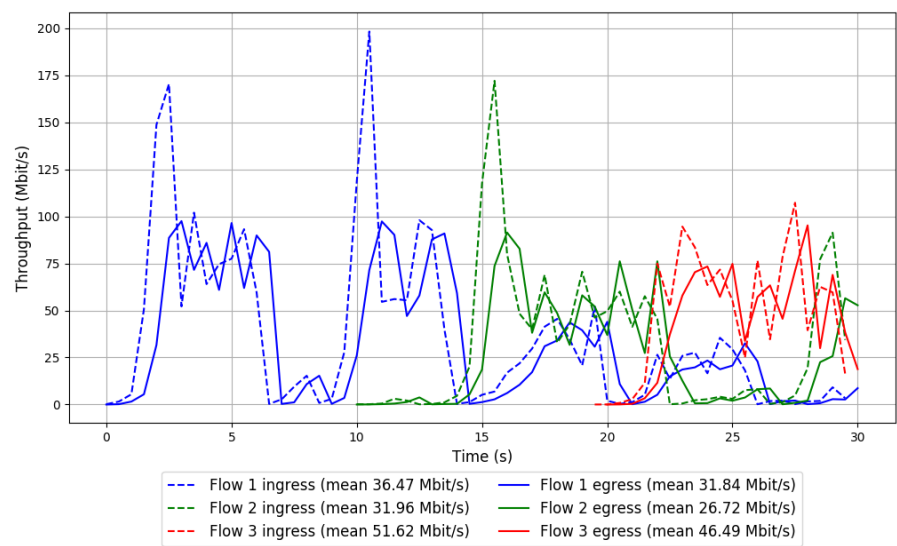
-- Flow 3:

Average throughput: 46.49 Mbit/s

95th percentile per-packet one-way delay: 193.050 ms

Loss rate: 10.10%

Run 2: Report of Verus — Data Link

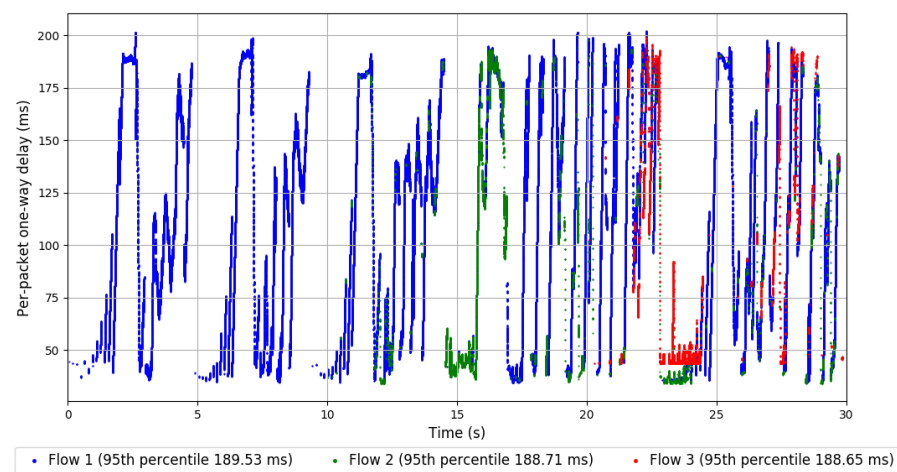
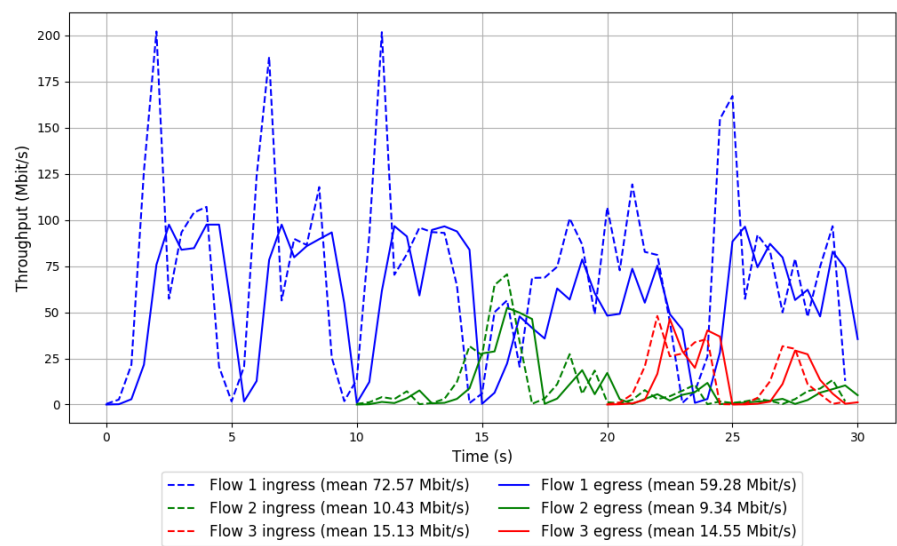


Run 3: Statistics of Verus

Start at: 2018-12-20 02:38:28
End at: 2018-12-20 02:38:58
Local clock offset: 3.456 ms
Remote clock offset: 79.802 ms

Below is generated by plot.py at 2018-12-20 03:49:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.97 Mbit/s
95th percentile per-packet one-way delay: 189.408 ms
Loss rate: 16.58%
-- Flow 1:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 189.529 ms
Loss rate: 18.04%
-- Flow 2:
Average throughput: 9.34 Mbit/s
95th percentile per-packet one-way delay: 188.706 ms
Loss rate: 9.99%
-- Flow 3:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 188.649 ms
Loss rate: 4.41%

Run 3: Report of Verus — Data Link

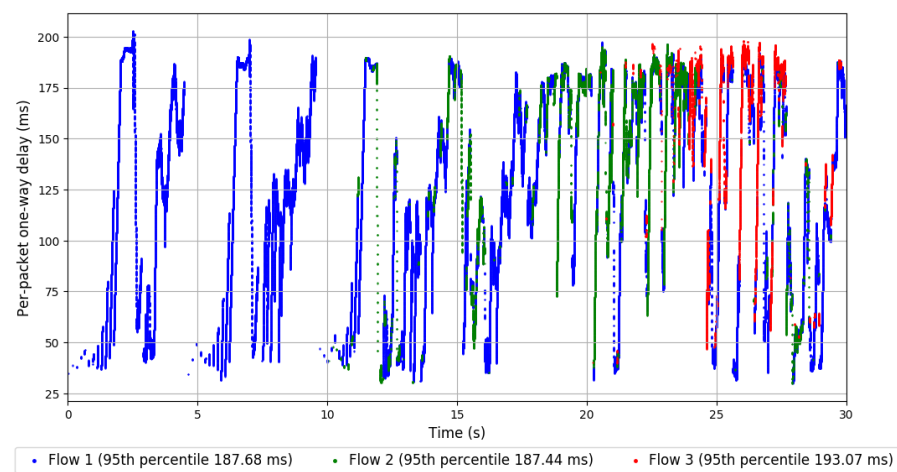
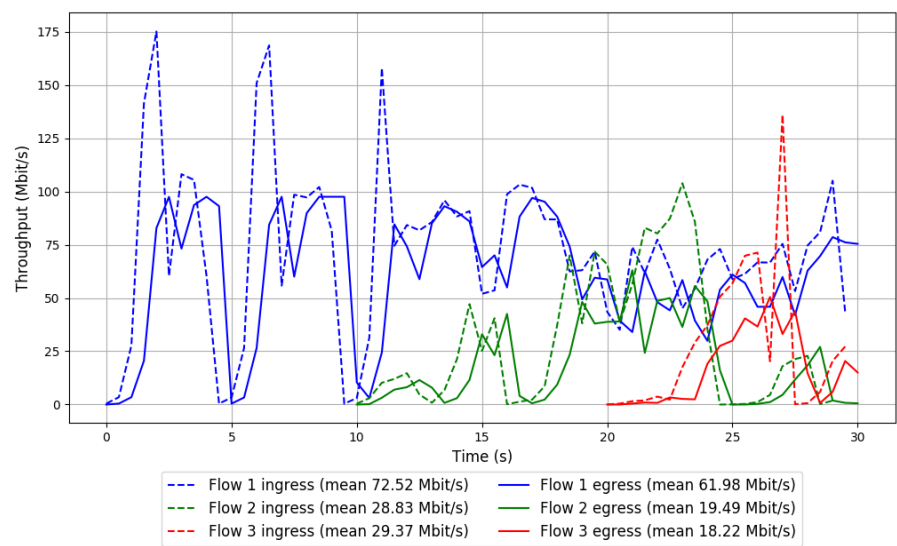


Run 4: Statistics of Verus

Start at: 2018-12-20 03:02:39
End at: 2018-12-20 03:03:09
Local clock offset: 14.501 ms
Remote clock offset: 101.495 ms

Below is generated by plot.py at 2018-12-20 03:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 80.57 Mbit/s
95th percentile per-packet one-way delay: 188.552 ms
Loss rate: 19.60%
-- Flow 1:
Average throughput: 61.98 Mbit/s
95th percentile per-packet one-way delay: 187.678 ms
Loss rate: 14.18%
-- Flow 2:
Average throughput: 19.49 Mbit/s
95th percentile per-packet one-way delay: 187.441 ms
Loss rate: 31.91%
-- Flow 3:
Average throughput: 18.22 Mbit/s
95th percentile per-packet one-way delay: 193.071 ms
Loss rate: 37.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-12-20 03:27:34

End at: 2018-12-20 03:28:04

Local clock offset: 9.772 ms

Remote clock offset: 26.15 ms

Below is generated by plot.py at 2018-12-20 03:49:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 194.228 ms

Loss rate: 11.20%

-- Flow 1:

Average throughput: 51.92 Mbit/s

95th percentile per-packet one-way delay: 190.478 ms

Loss rate: 11.41%

-- Flow 2:

Average throughput: 19.87 Mbit/s

95th percentile per-packet one-way delay: 195.385 ms

Loss rate: 8.63%

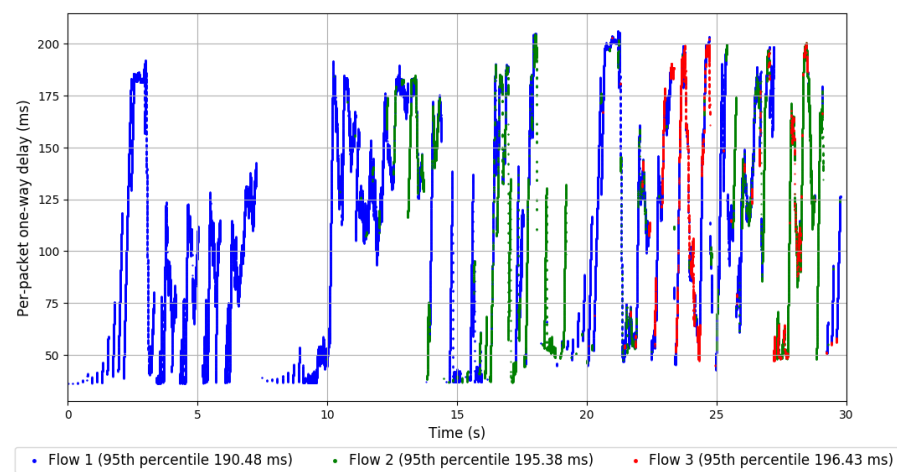
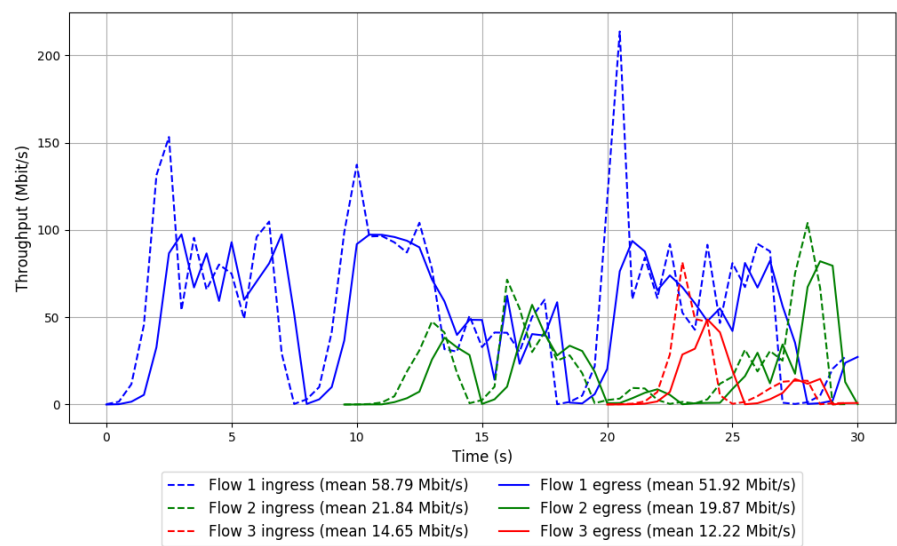
-- Flow 3:

Average throughput: 12.22 Mbit/s

95th percentile per-packet one-way delay: 196.429 ms

Loss rate: 16.56%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-12-20 01:52:46

End at: 2018-12-20 01:53:16

Local clock offset: 1.749 ms

Remote clock offset: 1.86 ms

Below is generated by plot.py at 2018-12-20 03:49:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.03 Mbit/s

95th percentile per-packet one-way delay: 55.690 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 4.64 Mbit/s

95th percentile per-packet one-way delay: 51.382 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.11 Mbit/s

95th percentile per-packet one-way delay: 58.439 ms

Loss rate: 0.14%

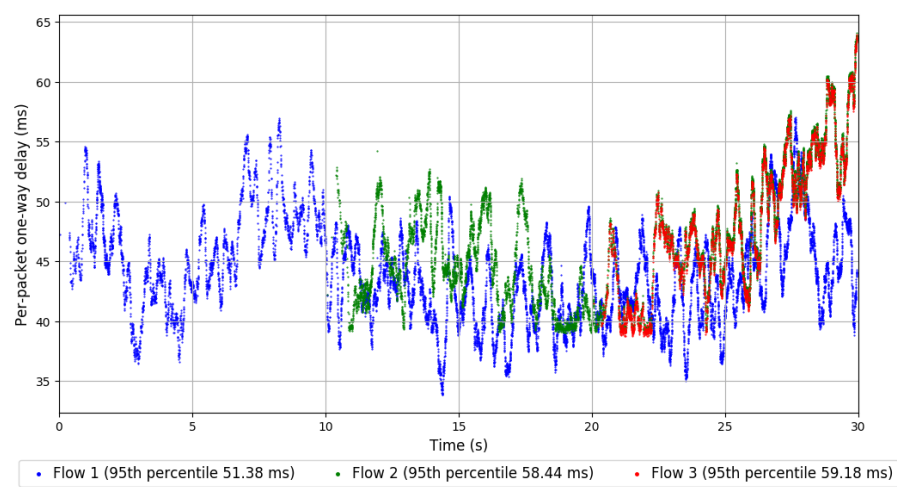
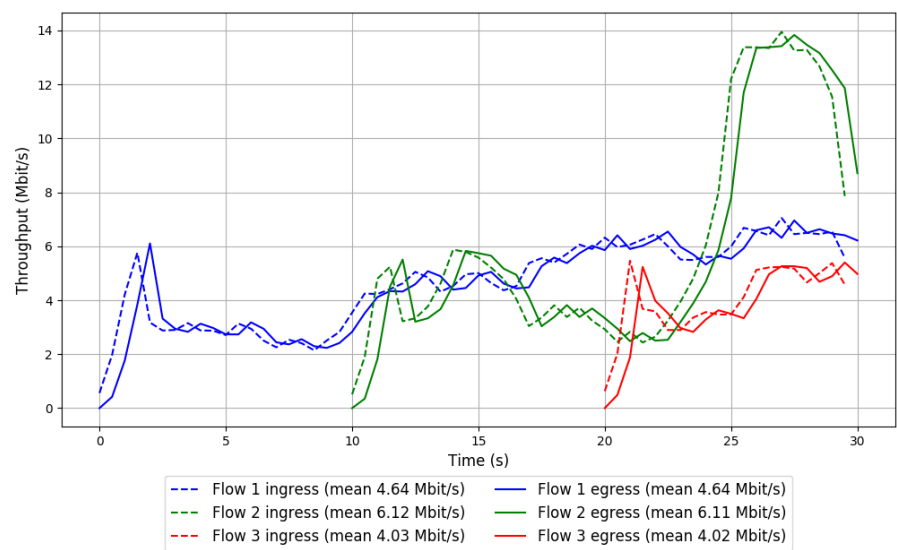
-- Flow 3:

Average throughput: 4.02 Mbit/s

95th percentile per-packet one-way delay: 59.184 ms

Loss rate: 0.26%

Run 1: Report of PCC-Vivace — Data Link

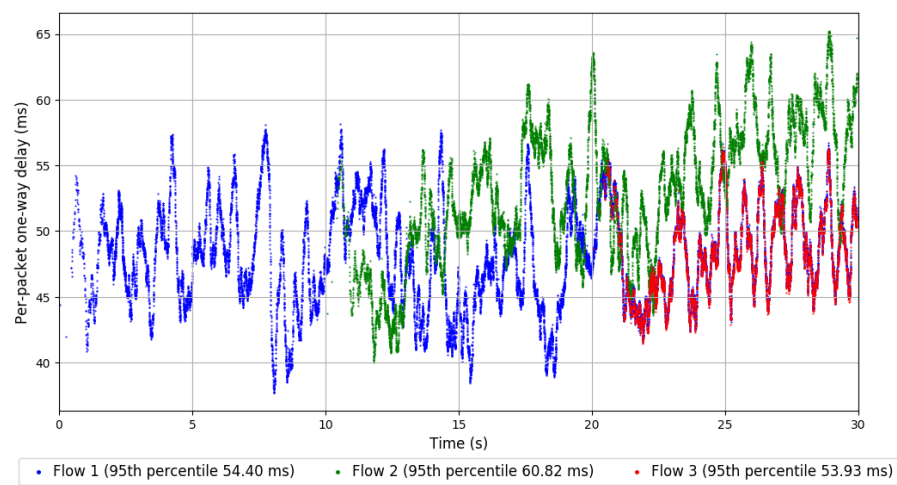
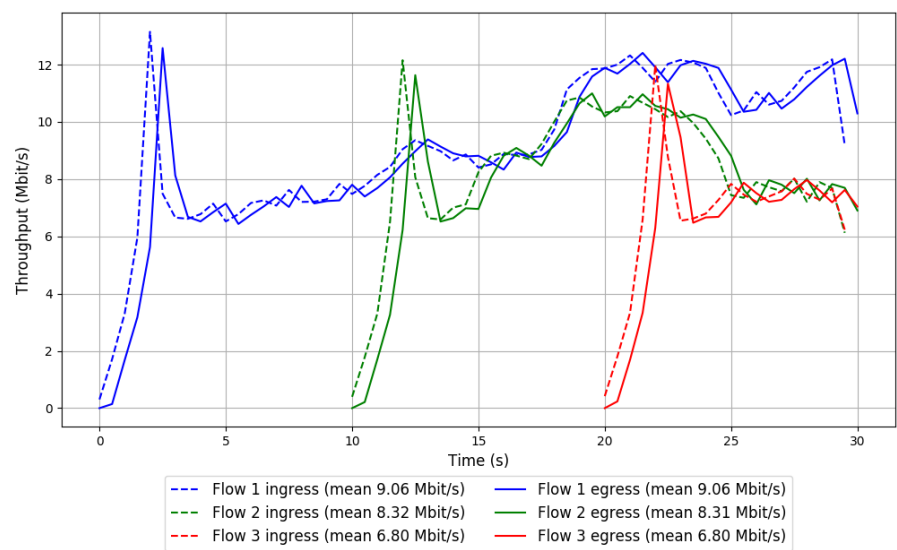


Run 2: Statistics of PCC-Vivace

Start at: 2018-12-20 02:17:44
End at: 2018-12-20 02:18:14
Local clock offset: -0.113 ms
Remote clock offset: 41.648 ms

Below is generated by plot.py at 2018-12-20 03:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 58.125 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 54.399 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 60.820 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 6.80 Mbit/s
95th percentile per-packet one-way delay: 53.934 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

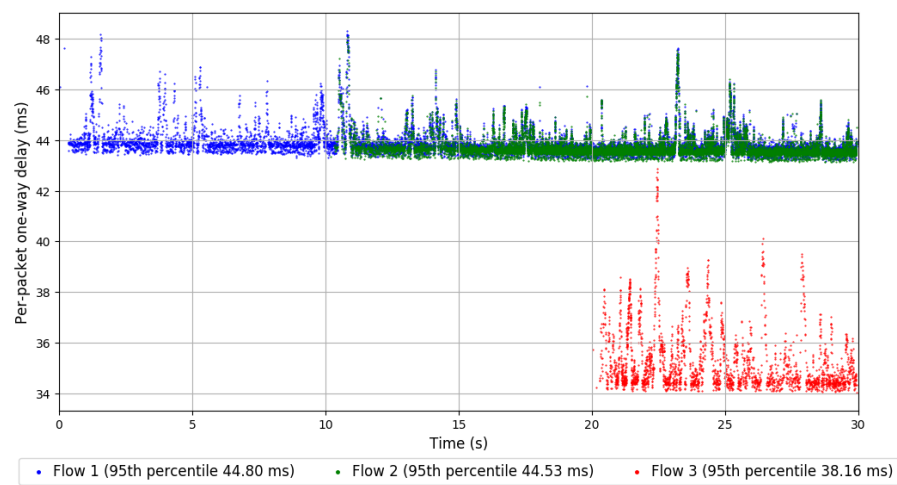
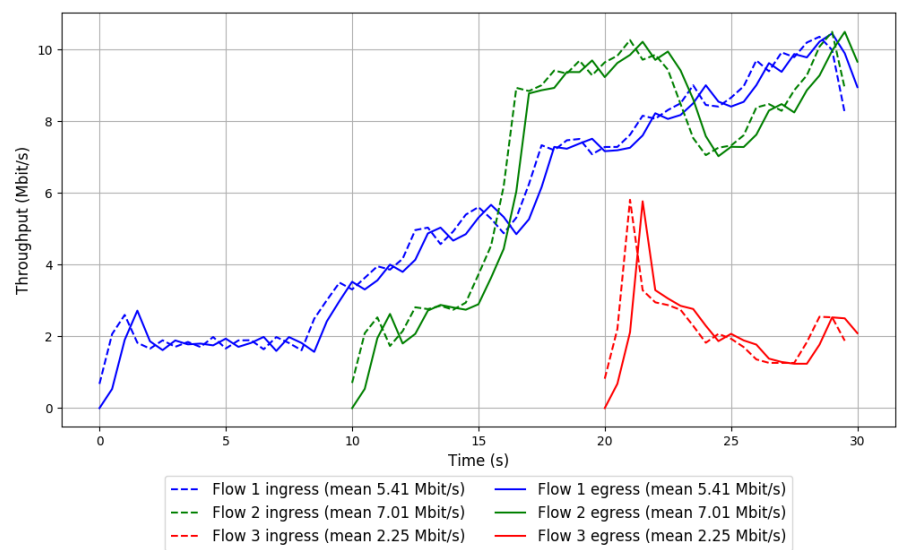


Run 3: Statistics of PCC-Vivace

Start at: 2018-12-20 02:42:24
End at: 2018-12-20 02:42:54
Local clock offset: 7.581 ms
Remote clock offset: 84.334 ms

Below is generated by plot.py at 2018-12-20 03:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.81 Mbit/s
95th percentile per-packet one-way delay: 44.629 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 5.41 Mbit/s
95th percentile per-packet one-way delay: 44.803 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 44.530 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 38.160 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

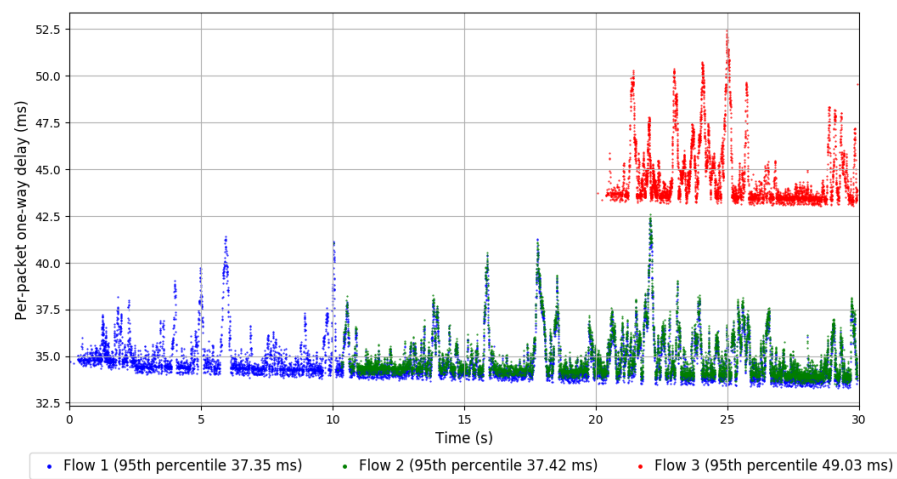
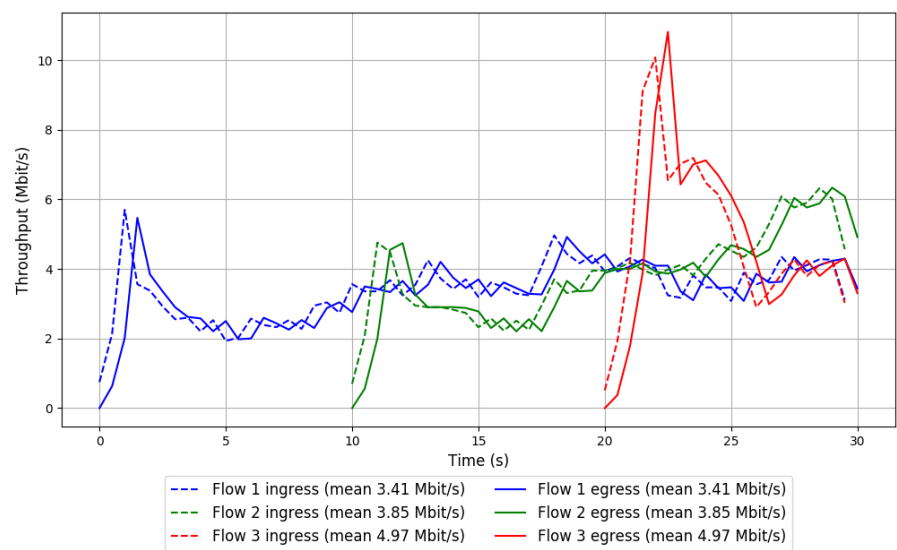


Run 4: Statistics of PCC-Vivace

Start at: 2018-12-20 03:06:38
End at: 2018-12-20 03:07:08
Local clock offset: 14.429 ms
Remote clock offset: 109.821 ms

Below is generated by plot.py at 2018-12-20 03:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 45.415 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 37.355 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.85 Mbit/s
95th percentile per-packet one-way delay: 37.419 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 49.026 ms
Loss rate: 0.05%

Run 4: Report of PCC-Vivace — Data Link

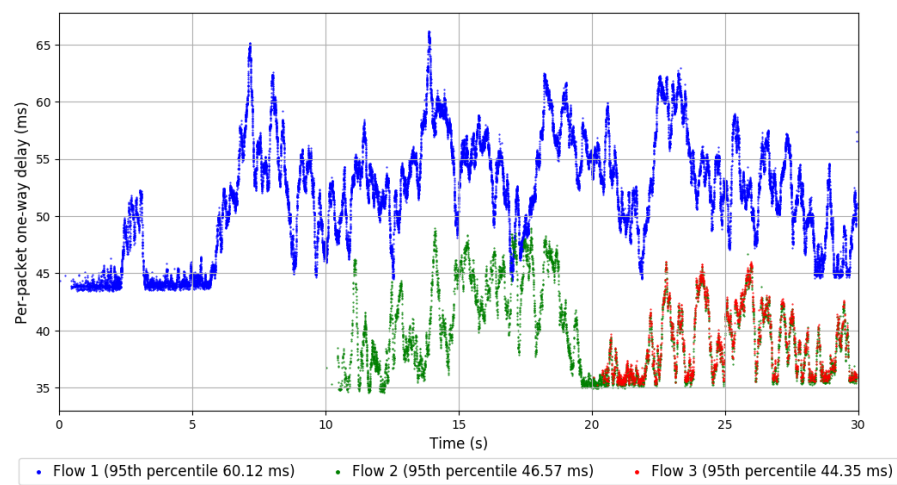
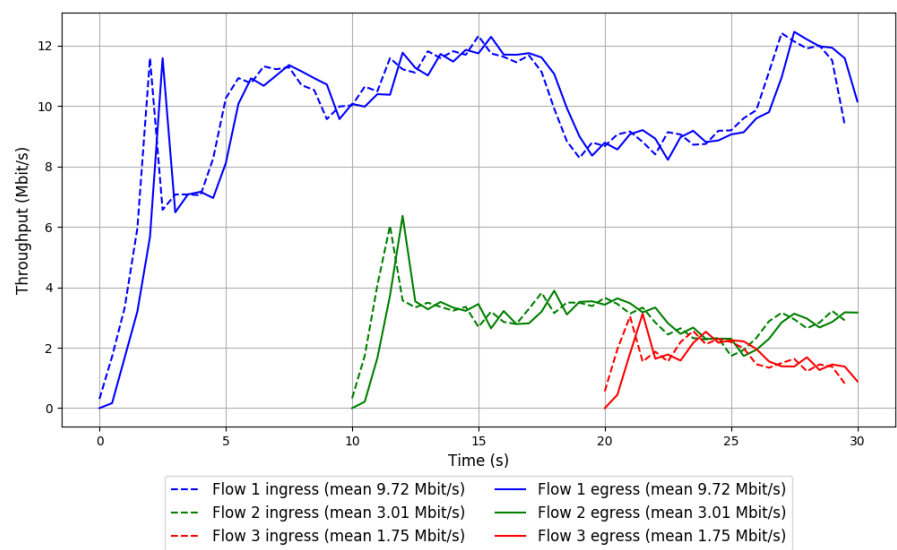


Run 5: Statistics of PCC-Vivace

Start at: 2018-12-20 03:31:38
End at: 2018-12-20 03:32:08
Local clock offset: 9.101 ms
Remote clock offset: 11.613 ms

Below is generated by plot.py at 2018-12-20 03:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.30 Mbit/s
95th percentile per-packet one-way delay: 59.616 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 9.72 Mbit/s
95th percentile per-packet one-way delay: 60.120 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 46.573 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 44.351 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

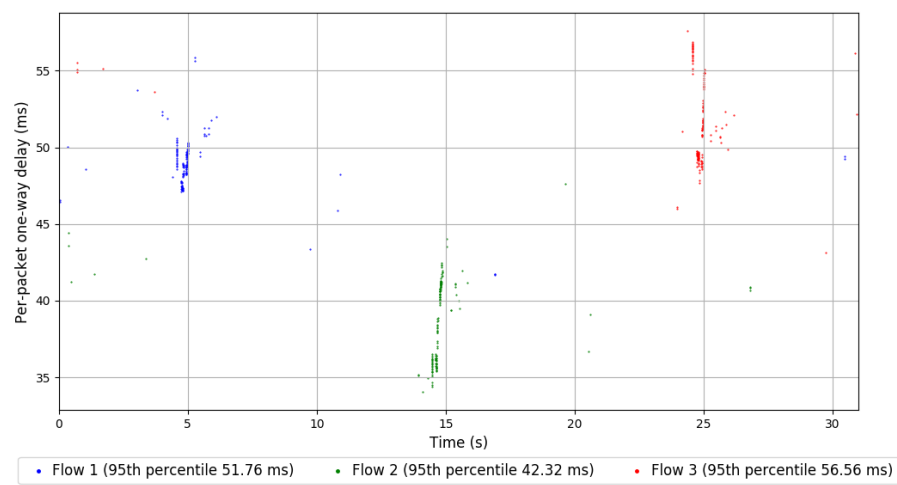
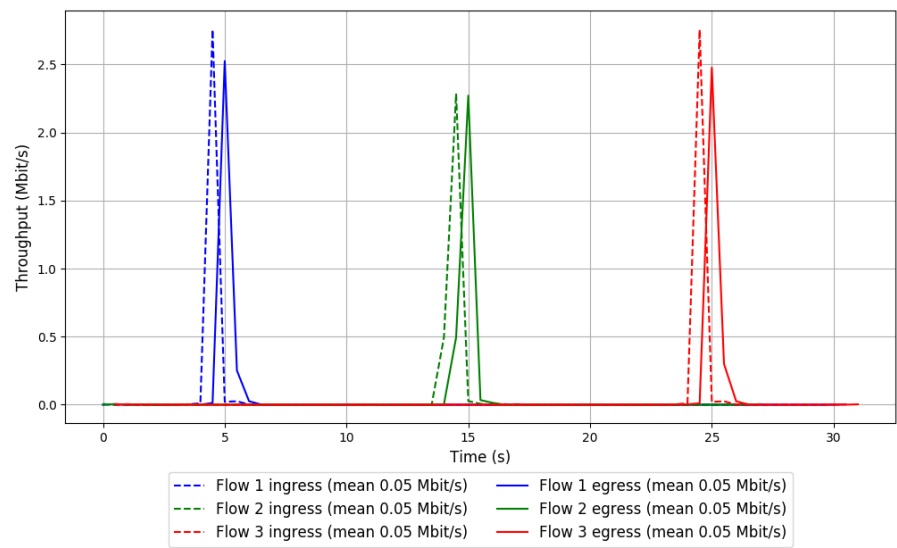


```
Run 1: Statistics of WebRTC media

Start at: 2018-12-20 01:42:20
End at: 2018-12-20 01:42:50
Local clock offset: 6.853 ms
Remote clock offset: 0.954 ms

# Below is generated by plot.py at 2018-12-20 03:49:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 55.633 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 51.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 42.318 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.556 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-12-20 02:07:07

End at: 2018-12-20 02:07:37

Local clock offset: -1.949 ms

Remote clock offset: 0.317 ms

Below is generated by plot.py at 2018-12-20 03:49:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 62.756 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 56.329 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.855 ms

Loss rate: 0.00%

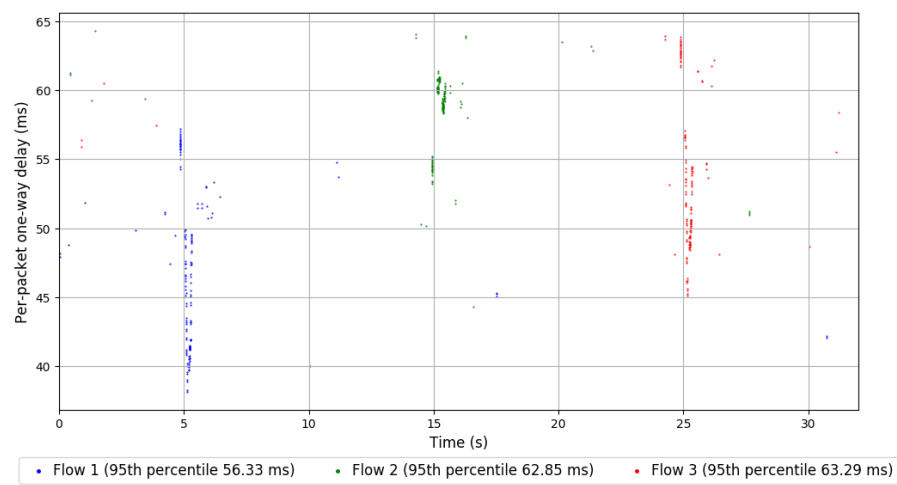
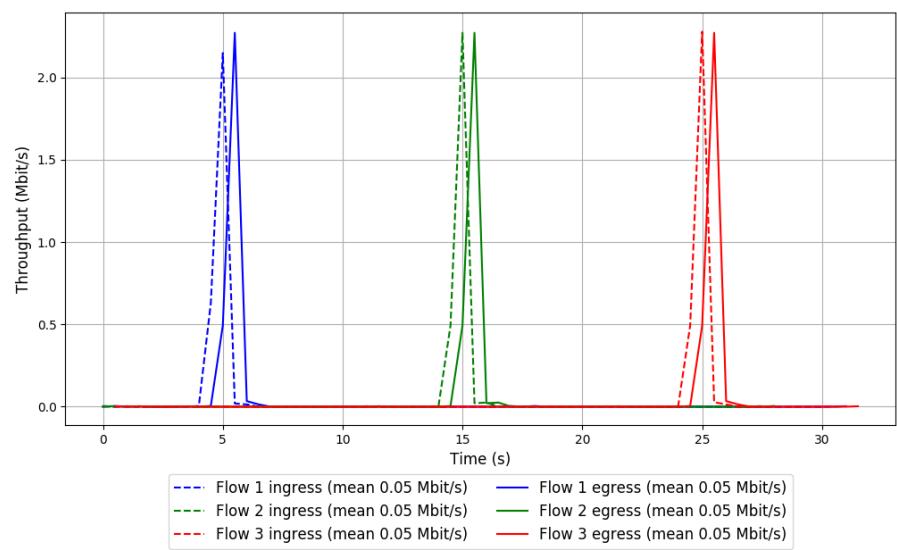
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.293 ms

Loss rate: 0.06%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-12-20 02:32:07

End at: 2018-12-20 02:32:37

Local clock offset: -1.25 ms

Remote clock offset: 68.95 ms

Below is generated by plot.py at 2018-12-20 03:49:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 47.832 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 48.584 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 43.581 ms

Loss rate: 0.00%

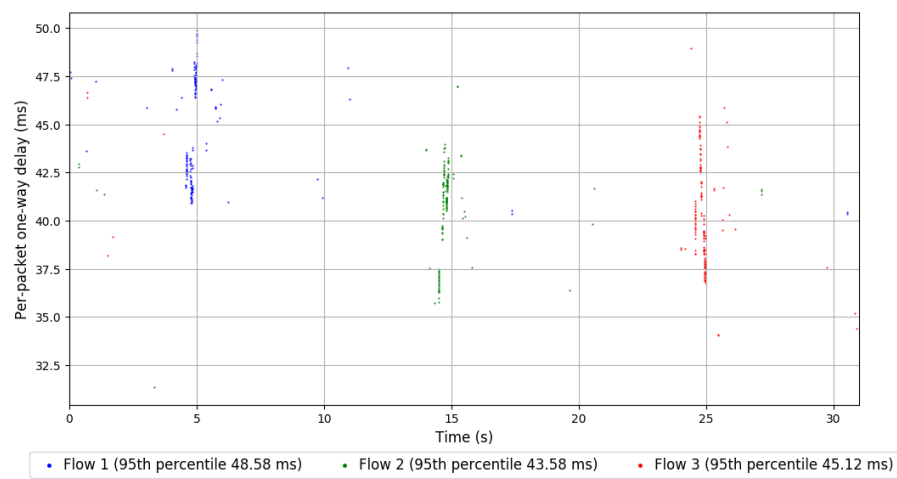
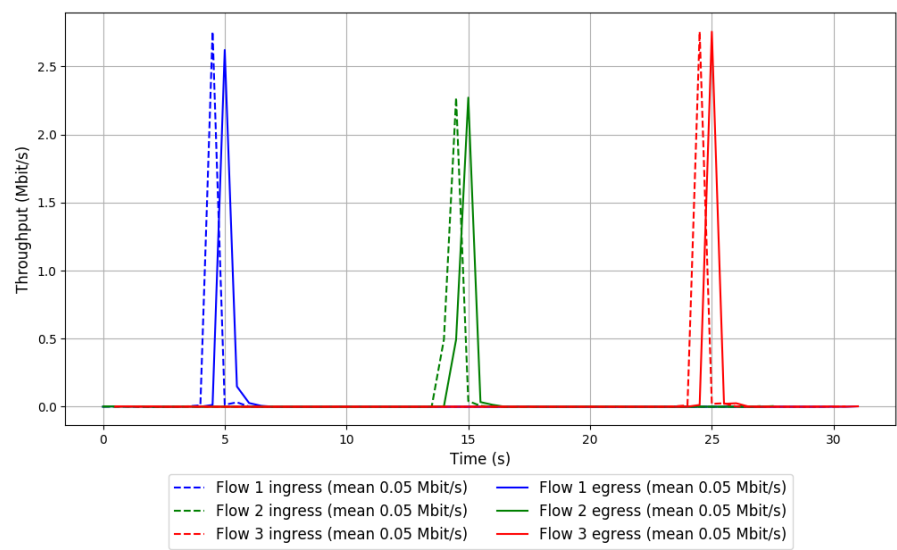
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 45.117 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

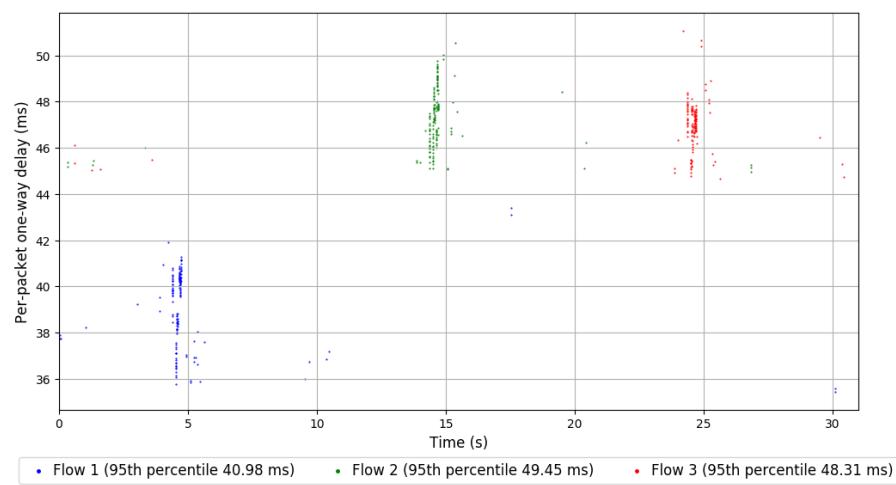
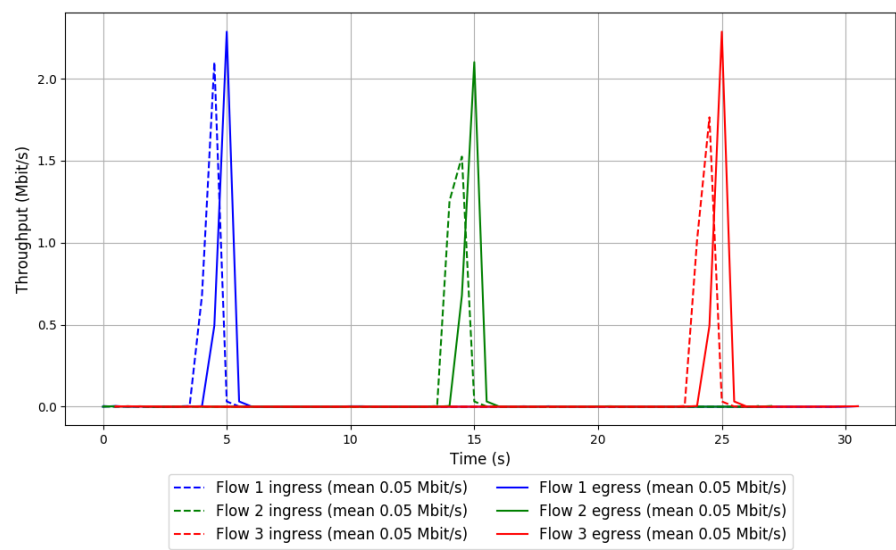


Run 4: Statistics of WebRTC media

Start at: 2018-12-20 02:56:22
End at: 2018-12-20 02:56:52
Local clock offset: 13.284 ms
Remote clock offset: 99.774 ms

Below is generated by plot.py at 2018-12-20 03:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 48.946 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 40.985 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 49.449 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 48.310 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-12-20 03:21:00
End at: 2018-12-20 03:21:30
Local clock offset: 10.436 ms
Remote clock offset: 59.735 ms

Below is generated by plot.py at 2018-12-20 03:49:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 47.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 40.247 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 41.669 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 48.333 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

