

Pantheon Report

Generated at 2019-03-27 03:28:08 (UTC).

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

Repeated the test of 21 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:

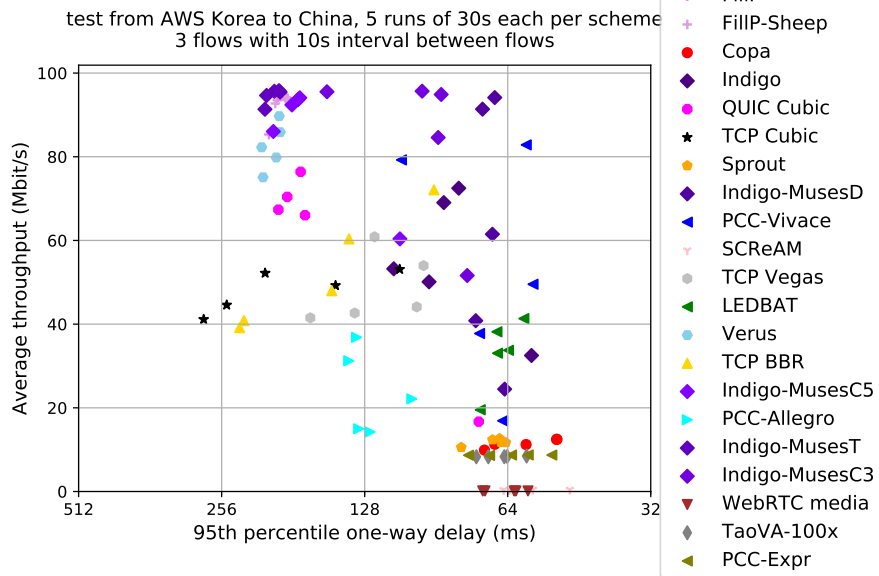
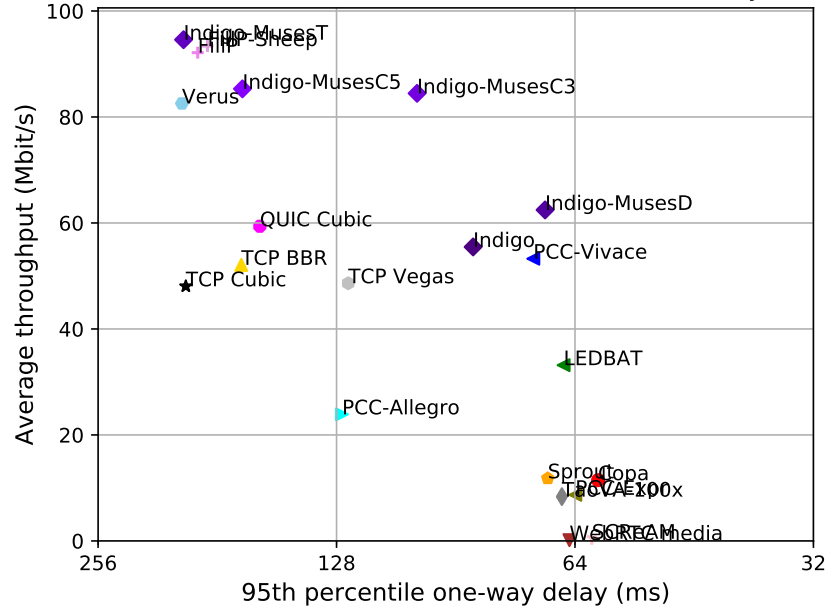
```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

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

test from AWS Korea to China, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



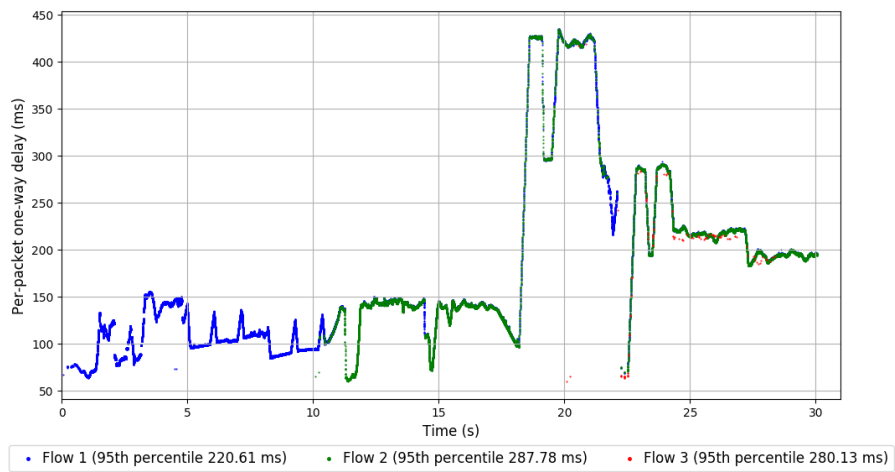
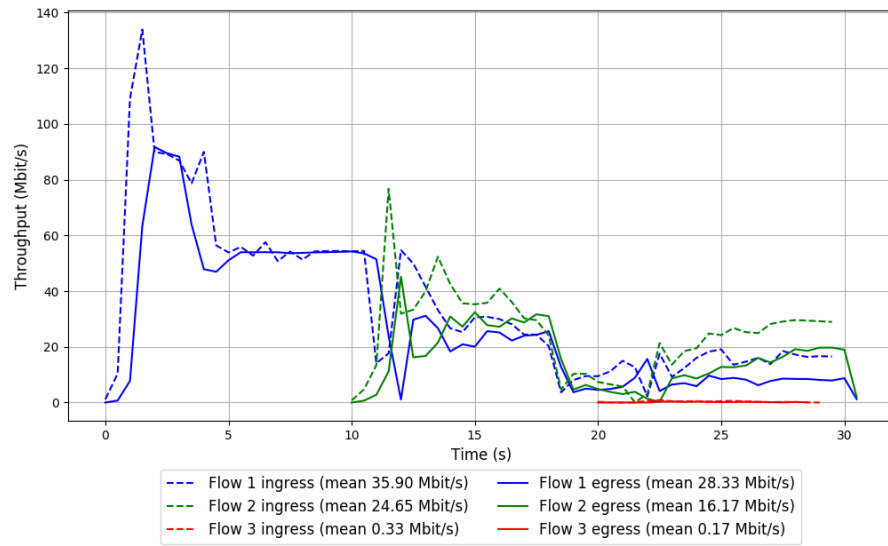
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	36.94	18.78	7.95	161.80	216.59	200.20	16.81	24.39	33.89
Copa	5	7.02	5.26	2.86	60.04	59.56	60.90	26.68	30.83	43.81
TCP Cubic	5	32.47	17.82	11.18	169.04	211.90	239.44	1.53	1.51	2.07
FillP	5	57.47	41.84	20.65	189.37	190.02	193.57	10.89	21.27	20.15
FillP-Sheep	5	56.06	38.08	36.14	182.57	187.88	189.13	2.78	4.19	9.90
Indigo	5	29.01	29.47	21.93	76.72	88.87	92.25	4.29	8.16	9.12
Indigo-MusesC3	5	48.83	35.00	42.79	97.57	99.14	97.13	0.02	0.03	0.01
Indigo-MusesC5	5	54.33	42.88	10.29	165.79	170.25	170.35	0.03	0.22	0.44
Indigo-MusesD	5	35.92	27.30	29.13	69.31	67.01	70.72	0.01	0.02	0.02
Indigo-MusesT	5	58.56	47.71	16.57	197.53	199.60	203.07	2.15	3.05	3.35
LEDBAT	5	20.39	15.35	7.70	64.88	64.94	64.18	0.00	0.00	0.00
PCC-Allegro	5	56.37	4.78	0.80	115.08	138.35	127.51	65.79	63.82	62.39
PCC-Expr	5	0.02	10.87	4.44	63.38	63.75	64.51	85.71	44.54	25.61
QUIC Cubic	5	35.12	27.20	19.16	155.28	162.69	162.48	0.40	0.57	0.56
SCReAM	5	0.20	0.22	0.21	60.22	61.40	58.80	0.06	0.00	0.01
Sprout	5	6.09	5.84	5.59	68.05	69.74	66.39	0.02	0.00	0.01
TaoVA-100x	5	0.00	8.75	7.63	56.43	65.51	70.00	95.92	6.18	13.65
TCP Vegas	5	29.86	16.08	24.22	109.51	158.26	139.85	1.88	1.60	2.19
Verus	5	57.95	27.44	20.28	200.10	201.17	205.23	12.09	16.15	16.94
PCC-Vivace	5	34.98	21.72	11.64	68.74	76.67	73.38	0.01	0.02	0.00
WebRTC media	5	0.05	0.05	0.05	61.27	64.15	62.11	0.00	0.00	0.01

Run 1: Statistics of TCP BBR

Start at: 2019-03-27 01:25:22
End at: 2019-03-27 01:25:52
Local clock offset: 0.738 ms
Remote clock offset: -18.442 ms

Below is generated by plot.py at 2019-03-27 03:20:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.15 Mbit/s
95th percentile per-packet one-way delay: 234.589 ms
Loss rate: 25.29%
-- Flow 1:
Average throughput: 28.33 Mbit/s
95th percentile per-packet one-way delay: 220.614 ms
Loss rate: 21.07%
-- Flow 2:
Average throughput: 16.17 Mbit/s
95th percentile per-packet one-way delay: 287.780 ms
Loss rate: 34.36%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 280.130 ms
Loss rate: 52.17%

Run 1: Report of TCP BBR — Data Link

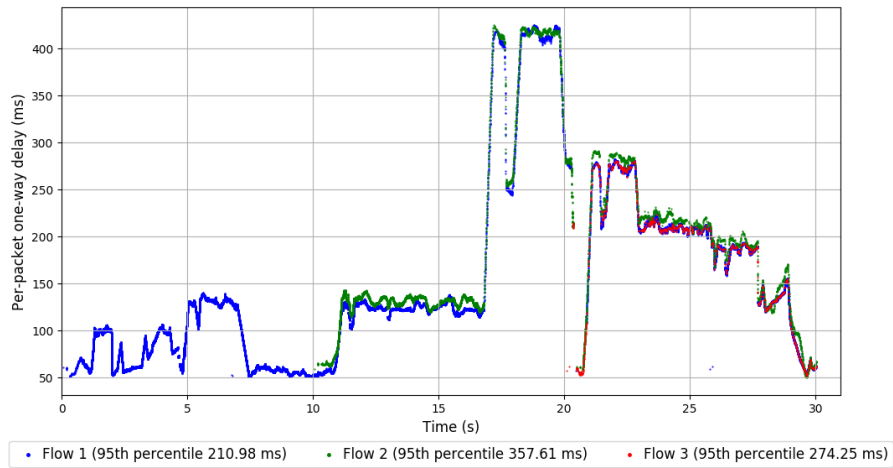
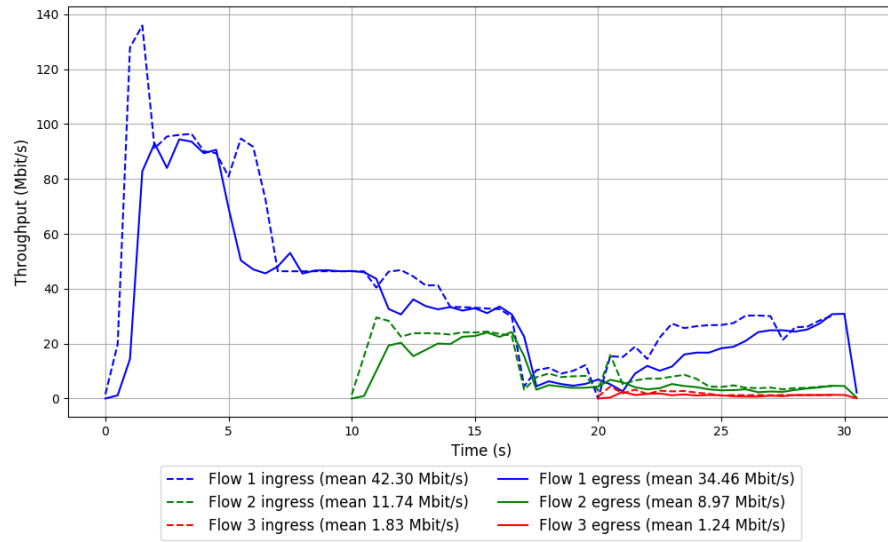


Run 2: Statistics of TCP BBR

Start at: 2019-03-27 01:52:08
End at: 2019-03-27 01:52:38
Local clock offset: -0.473 ms
Remote clock offset: -17.431 ms

Below is generated by plot.py at 2019-03-27 03:20:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 229.778 ms
Loss rate: 19.49%
-- Flow 1:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 210.977 ms
Loss rate: 18.54%
-- Flow 2:
Average throughput: 8.97 Mbit/s
95th percentile per-packet one-way delay: 357.605 ms
Loss rate: 23.62%
-- Flow 3:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 274.247 ms
Loss rate: 32.10%

Run 2: Report of TCP BBR — Data Link

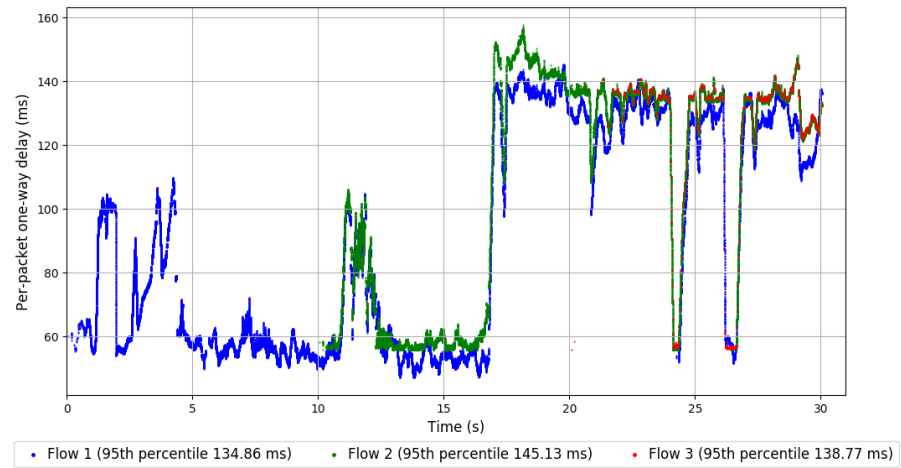
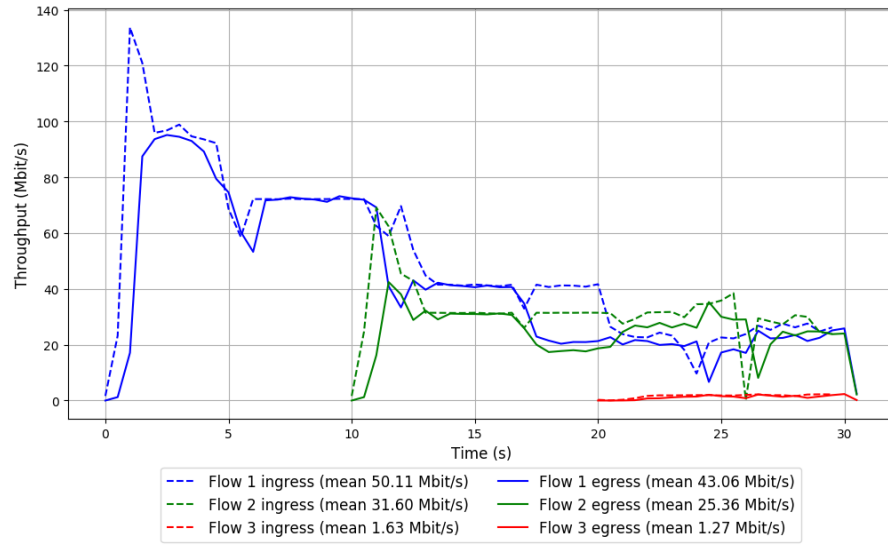


Run 3: Statistics of TCP BBR

Start at: 2019-03-27 02:18:53
End at: 2019-03-27 02:19:23
Local clock offset: -2.55 ms
Remote clock offset: -11.889 ms

Below is generated by plot.py at 2019-03-27 03:20:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 138.138 ms
Loss rate: 15.81%
-- Flow 1:
Average throughput: 43.06 Mbit/s
95th percentile per-packet one-way delay: 134.856 ms
Loss rate: 14.08%
-- Flow 2:
Average throughput: 25.36 Mbit/s
95th percentile per-packet one-way delay: 145.131 ms
Loss rate: 19.76%
-- Flow 3:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 138.771 ms
Loss rate: 22.10%

Run 3: Report of TCP BBR — Data Link

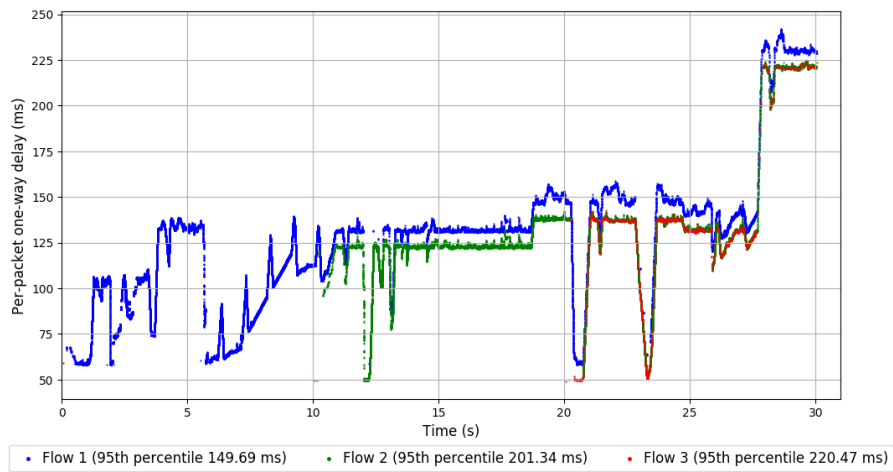
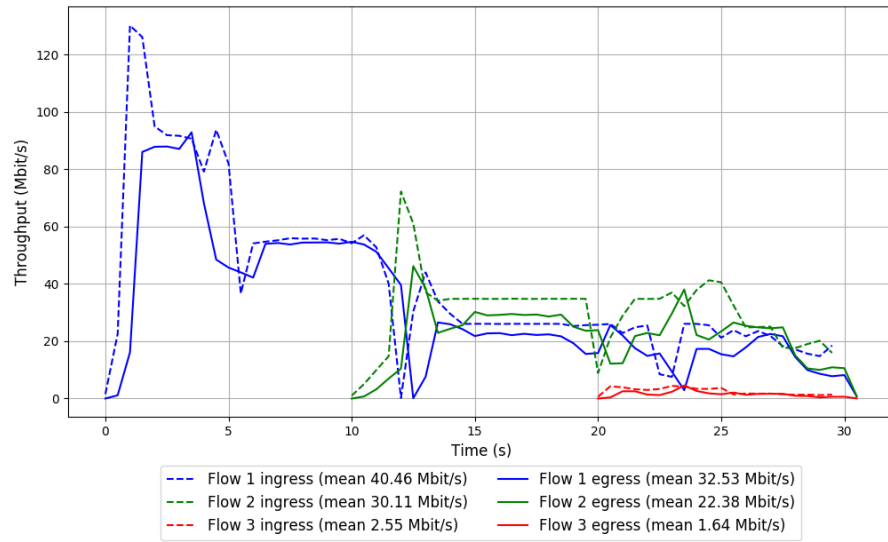


Run 4: Statistics of TCP BBR

Start at: 2019-03-27 02:45:42
End at: 2019-03-27 02:46:12
Local clock offset: -3.514 ms
Remote clock offset: -8.544 ms

Below is generated by plot.py at 2019-03-27 03:20:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.99 Mbit/s
95th percentile per-packet one-way delay: 150.131 ms
Loss rate: 21.77%
-- Flow 1:
Average throughput: 32.53 Mbit/s
95th percentile per-packet one-way delay: 149.691 ms
Loss rate: 19.58%
-- Flow 2:
Average throughput: 22.38 Mbit/s
95th percentile per-packet one-way delay: 201.342 ms
Loss rate: 25.61%
-- Flow 3:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 220.468 ms
Loss rate: 35.41%

Run 4: Report of TCP BBR — Data Link

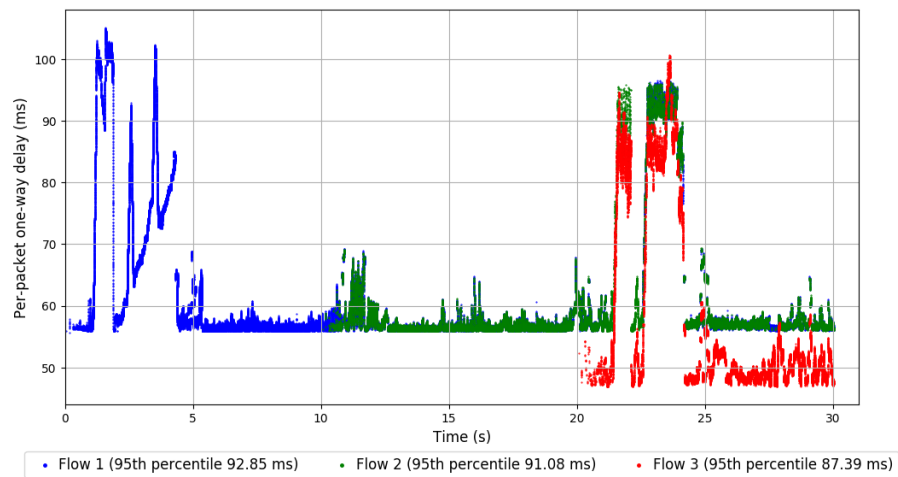
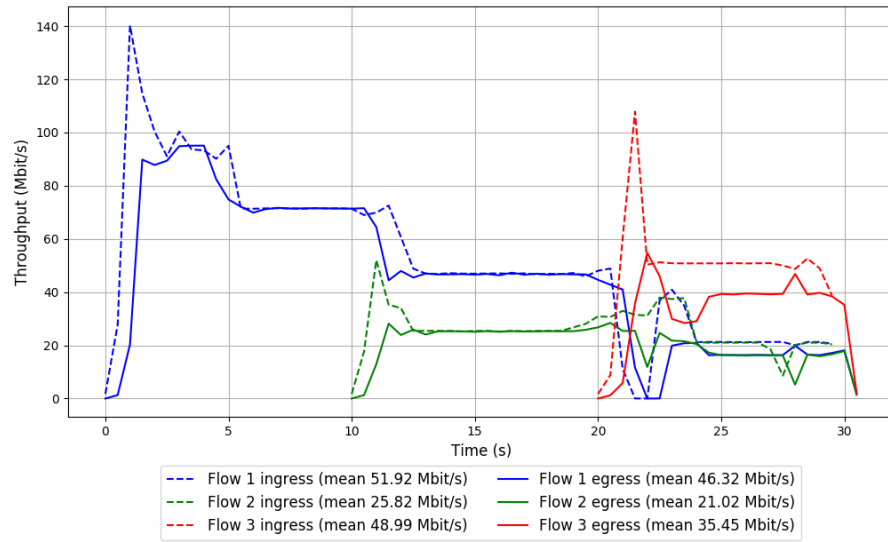


Run 5: Statistics of TCP BBR

Start at: 2019-03-27 03:12:34
End at: 2019-03-27 03:13:04
Local clock offset: 1.852 ms
Remote clock offset: -11.265 ms

Below is generated by plot.py at 2019-03-27 03:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.10 Mbit/s
95th percentile per-packet one-way delay: 91.509 ms
Loss rate: 15.57%
-- Flow 1:
Average throughput: 46.32 Mbit/s
95th percentile per-packet one-way delay: 92.854 ms
Loss rate: 10.78%
-- Flow 2:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 91.081 ms
Loss rate: 18.58%
-- Flow 3:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: 87.391 ms
Loss rate: 27.68%

Run 5: Report of TCP BBR — Data Link

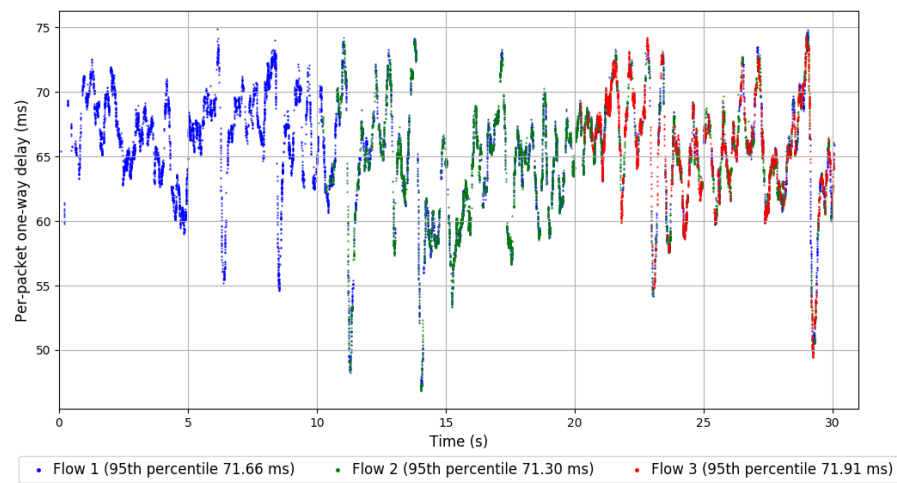
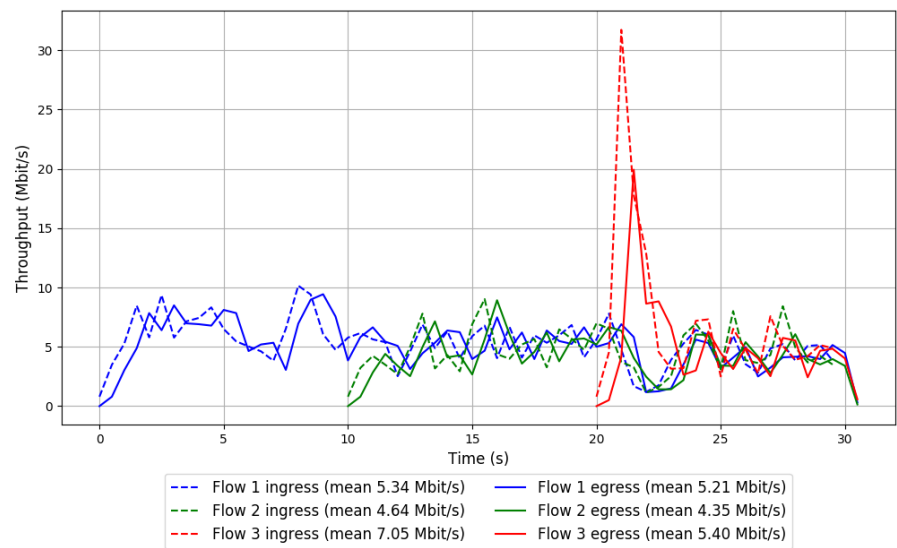


Run 1: Statistics of Copa

Start at: 2019-03-27 01:26:38
End at: 2019-03-27 01:27:08
Local clock offset: 0.742 ms
Remote clock offset: -17.003 ms

Below is generated by plot.py at 2019-03-27 03:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 9.90 Mbit/s
95th percentile per-packet one-way delay: 71.644 ms
Loss rate: 8.05%
-- Flow 1:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 71.661 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 4.35 Mbit/s
95th percentile per-packet one-way delay: 71.304 ms
Loss rate: 6.13%
-- Flow 3:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 71.910 ms
Loss rate: 23.40%

Run 1: Report of Copa — Data Link

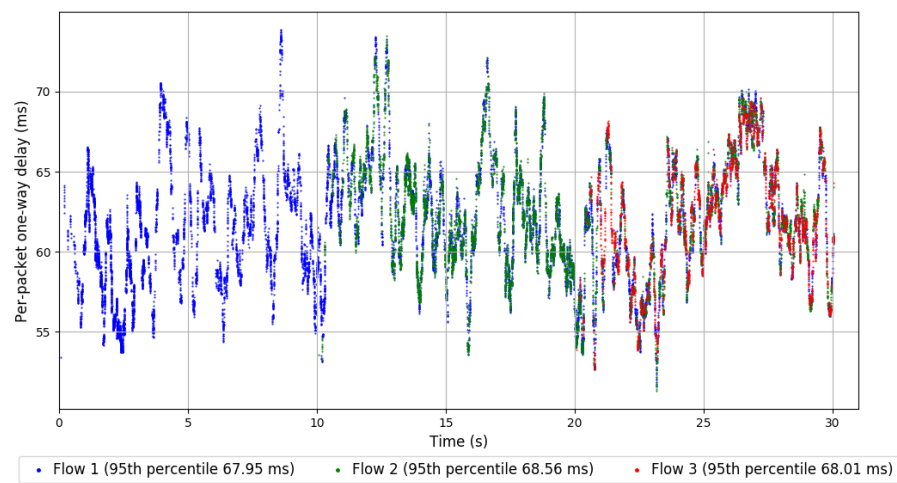
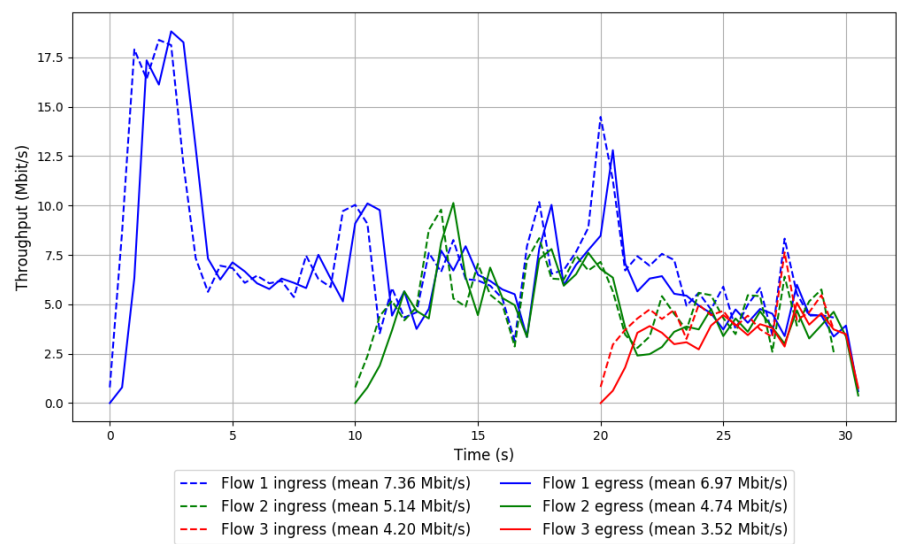


Run 2: Statistics of Copa

Start at: 2019-03-27 01:53:24
End at: 2019-03-27 01:53:54
Local clock offset: -0.667 ms
Remote clock offset: -14.418 ms

Below is generated by plot.py at 2019-03-27 03:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 68.129 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 67.949 ms
Loss rate: 5.26%
-- Flow 2:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 68.565 ms
Loss rate: 7.80%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 68.008 ms
Loss rate: 16.19%

Run 2: Report of Copa — Data Link

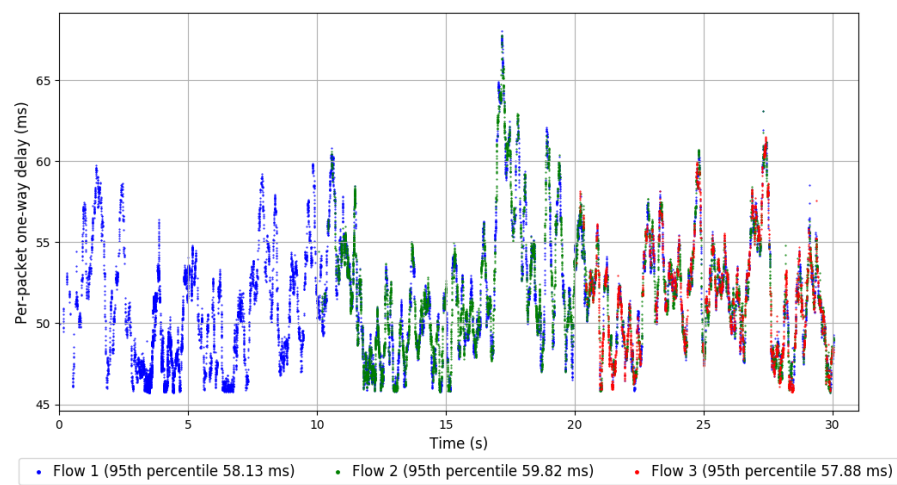
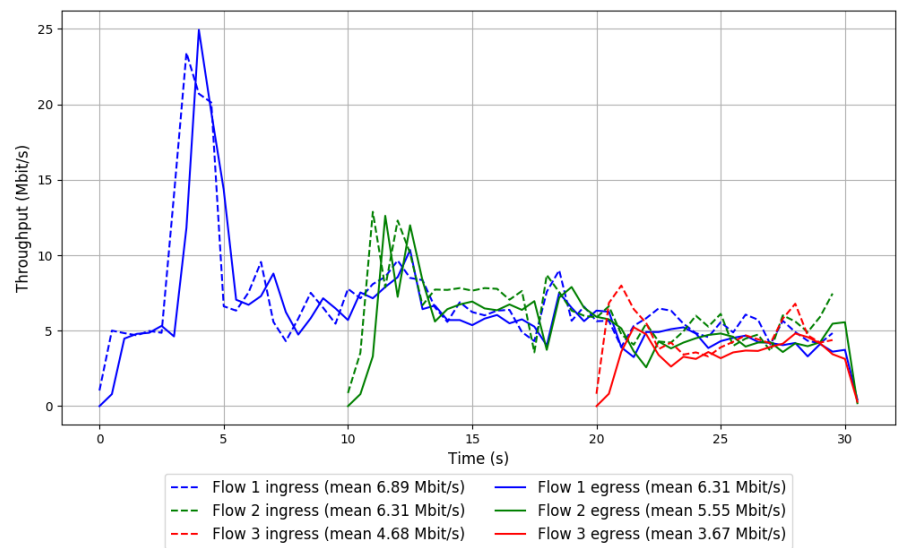


Run 3: Statistics of Copa

Start at: 2019-03-27 02:20:10
End at: 2019-03-27 02:20:40
Local clock offset: -2.633 ms
Remote clock offset: -13.576 ms

Below is generated by plot.py at 2019-03-27 03:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 58.552 ms
Loss rate: 11.21%
-- Flow 1:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 58.131 ms
Loss rate: 8.36%
-- Flow 2:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 59.823 ms
Loss rate: 12.00%
-- Flow 3:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 57.880 ms
Loss rate: 21.67%

Run 3: Report of Copa — Data Link

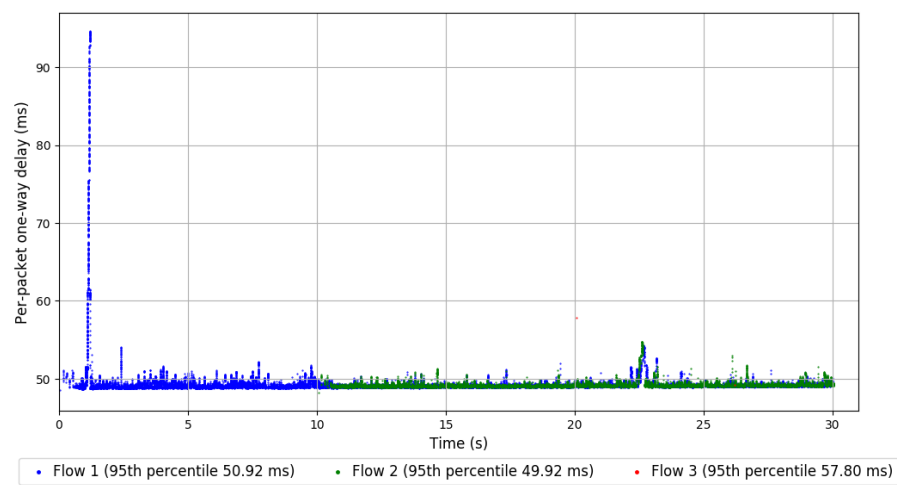
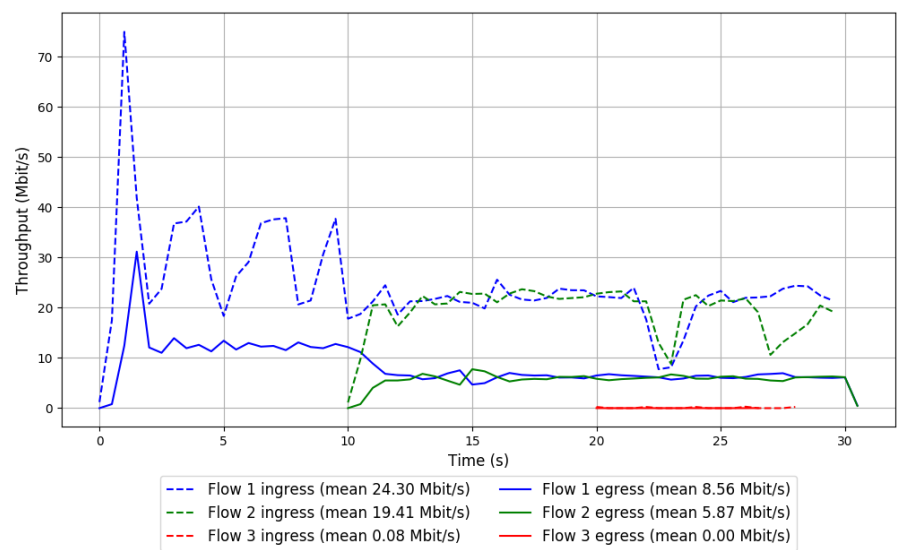


Run 4: Statistics of Copa

Start at: 2019-03-27 02:46:58
End at: 2019-03-27 02:47:28
Local clock offset: -3.012 ms
Remote clock offset: -9.414 ms

Below is generated by plot.py at 2019-03-27 03:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.47 Mbit/s
95th percentile per-packet one-way delay: 50.522 ms
Loss rate: 66.52%
-- Flow 1:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 50.923 ms
Loss rate: 64.76%
-- Flow 2:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 49.918 ms
Loss rate: 69.78%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 57.803 ms
Loss rate: 97.92%

Run 4: Report of Copa — Data Link

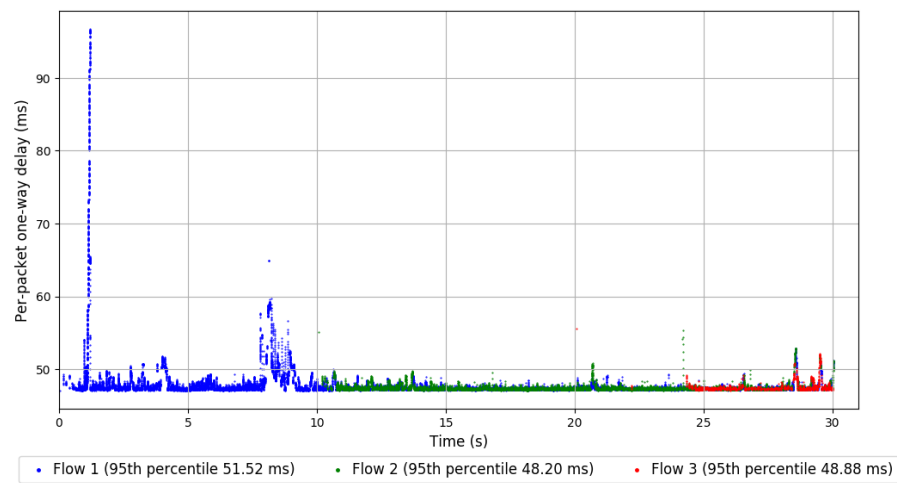
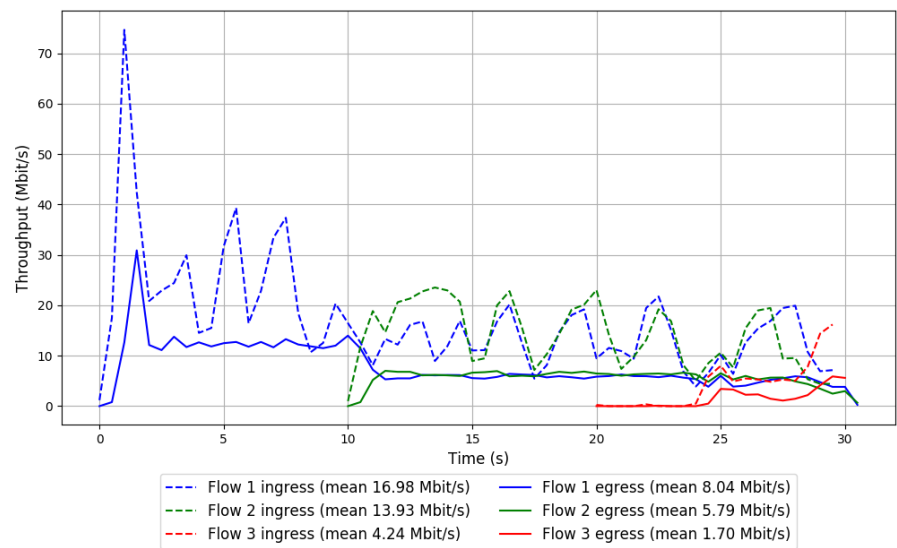


Run 5: Statistics of Copa

Start at: 2019-03-27 03:13:52
End at: 2019-03-27 03:14:22
Local clock offset: 1.921 ms
Remote clock offset: -11.541 ms

Below is generated by plot.py at 2019-03-27 03:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.46 Mbit/s
95th percentile per-packet one-way delay: 50.403 ms
Loss rate: 54.95%
-- Flow 1:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 51.520 ms
Loss rate: 52.63%
-- Flow 2:
Average throughput: 5.79 Mbit/s
95th percentile per-packet one-way delay: 48.197 ms
Loss rate: 58.44%
-- Flow 3:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 48.881 ms
Loss rate: 59.85%

Run 5: Report of Copa — Data Link

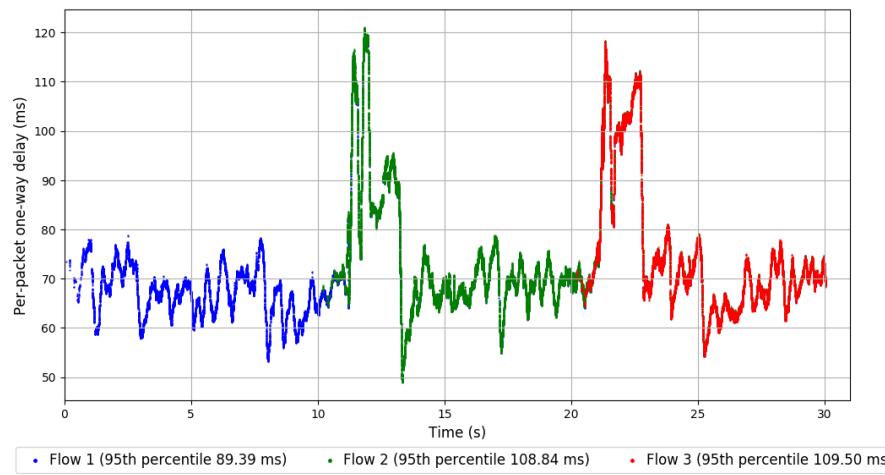
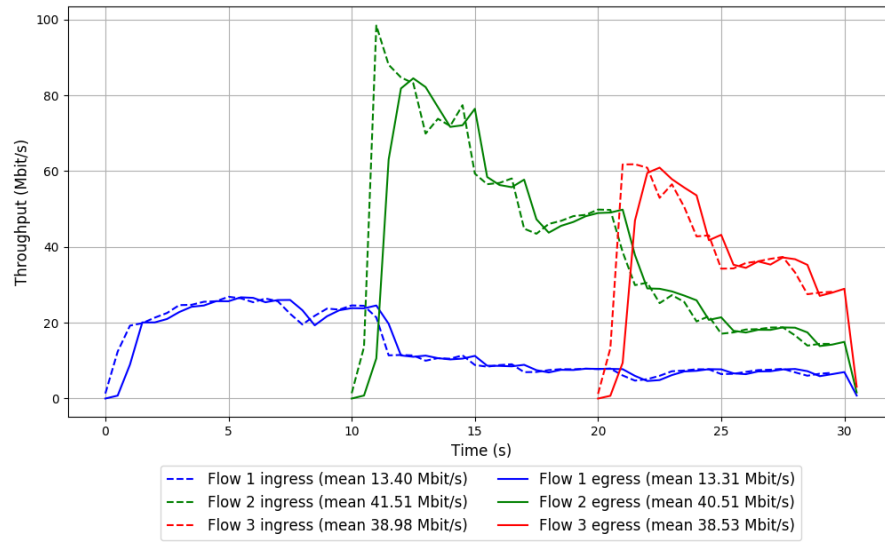


Run 1: Statistics of TCP Cubic

Start at: 2019-03-27 01:18:58
End at: 2019-03-27 01:19:28
Local clock offset: 0.741 ms
Remote clock offset: -21.137 ms

Below is generated by plot.py at 2019-03-27 03:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.11 Mbit/s
95th percentile per-packet one-way delay: 108.038 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 13.31 Mbit/s
95th percentile per-packet one-way delay: 89.392 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 40.51 Mbit/s
95th percentile per-packet one-way delay: 108.845 ms
Loss rate: 2.41%
-- Flow 3:
Average throughput: 38.53 Mbit/s
95th percentile per-packet one-way delay: 109.505 ms
Loss rate: 1.17%

Run 1: Report of TCP Cubic — Data Link

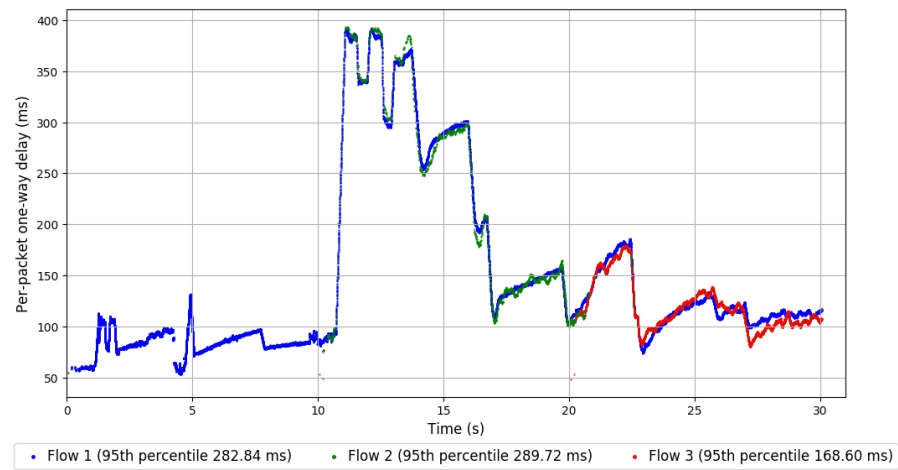
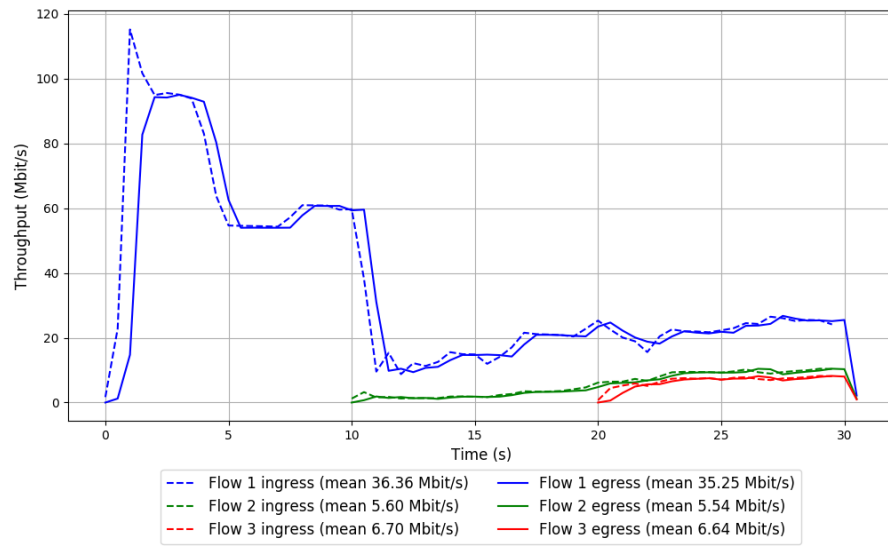


Run 2: Statistics of TCP Cubic

Start at: 2019-03-27 01:45:50
End at: 2019-03-27 01:46:20
Local clock offset: 0.919 ms
Remote clock offset: -20.846 ms

Below is generated by plot.py at 2019-03-27 03:20:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.14 Mbit/s
95th percentile per-packet one-way delay: 279.308 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 35.25 Mbit/s
95th percentile per-packet one-way delay: 282.843 ms
Loss rate: 3.03%
-- Flow 2:
Average throughput: 5.54 Mbit/s
95th percentile per-packet one-way delay: 289.723 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 168.604 ms
Loss rate: 0.74%

Run 2: Report of TCP Cubic — Data Link

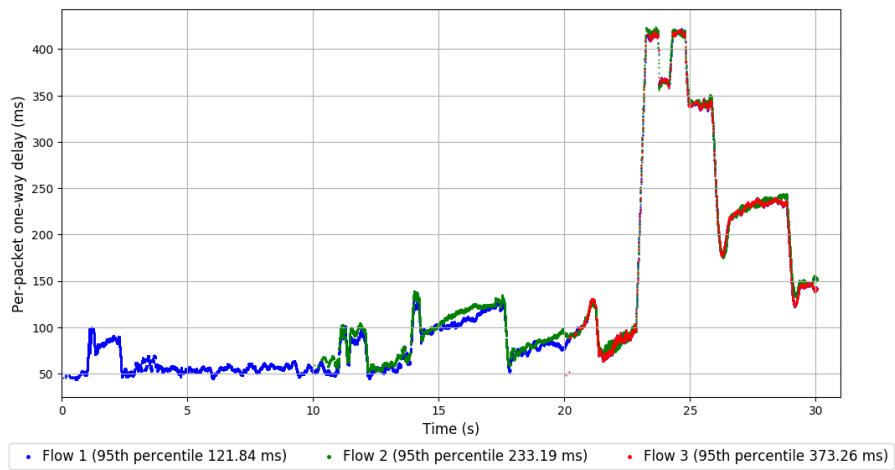
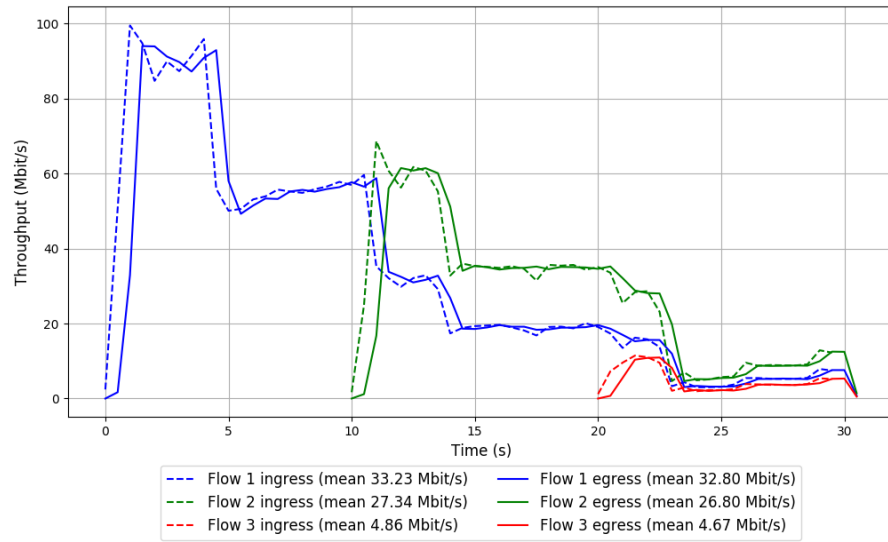


Run 3: Statistics of TCP Cubic

Start at: 2019-03-27 02:12:32
End at: 2019-03-27 02:13:02
Local clock offset: -2.227 ms
Remote clock offset: -15.901 ms

Below is generated by plot.py at 2019-03-27 03:20:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.20 Mbit/s
95th percentile per-packet one-way delay: 207.339 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 32.80 Mbit/s
95th percentile per-packet one-way delay: 121.838 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 26.80 Mbit/s
95th percentile per-packet one-way delay: 233.185 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 4.67 Mbit/s
95th percentile per-packet one-way delay: 373.260 ms
Loss rate: 3.69%

Run 3: Report of TCP Cubic — Data Link

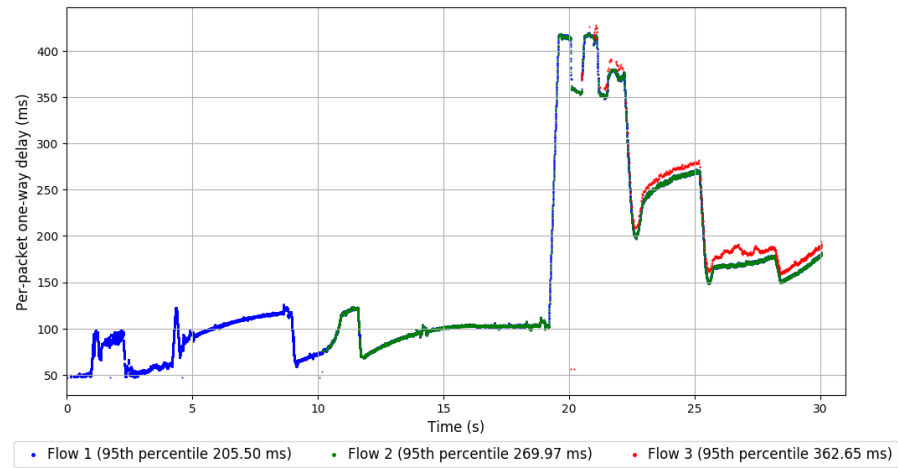
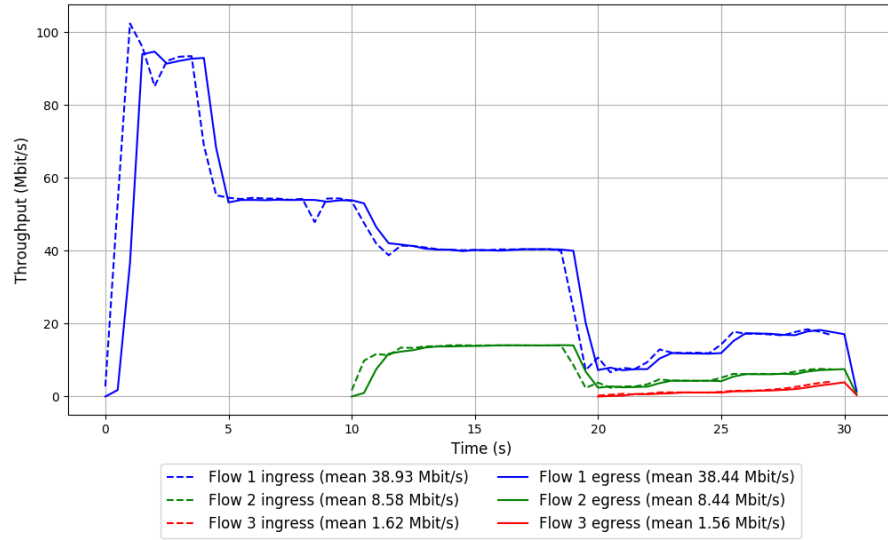


Run 4: Statistics of TCP Cubic

Start at: 2019-03-27 02:39:20
End at: 2019-03-27 02:39:50
Local clock offset: -3.303 ms
Remote clock offset: -10.182 ms

Below is generated by plot.py at 2019-03-27 03:20:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.58 Mbit/s
95th percentile per-packet one-way delay: 249.820 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 38.44 Mbit/s
95th percentile per-packet one-way delay: 205.499 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 269.974 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 1.56 Mbit/s
95th percentile per-packet one-way delay: 362.655 ms
Loss rate: 3.86%

Run 4: Report of TCP Cubic — Data Link

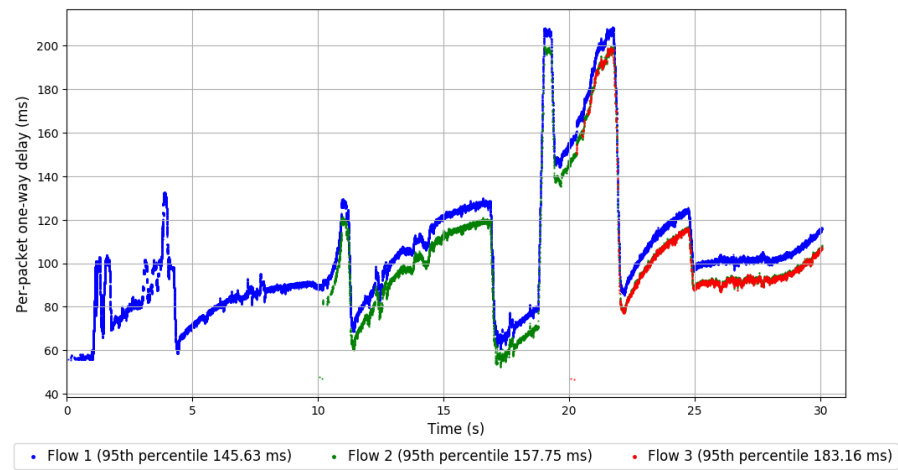
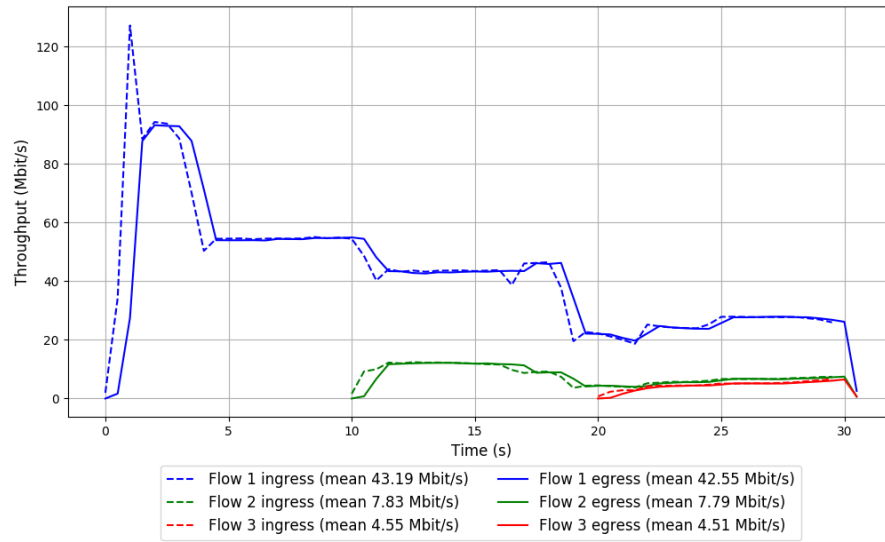


Run 5: Statistics of TCP Cubic

Start at: 2019-03-27 03:06:12
End at: 2019-03-27 03:06:42
Local clock offset: 1.543 ms
Remote clock offset: -11.046 ms

Below is generated by plot.py at 2019-03-27 03:20:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.24 Mbit/s
95th percentile per-packet one-way delay: 147.421 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 145.633 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 7.79 Mbit/s
95th percentile per-packet one-way delay: 157.751 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 4.51 Mbit/s
95th percentile per-packet one-way delay: 183.155 ms
Loss rate: 0.87%

Run 5: Report of TCP Cubic — Data Link

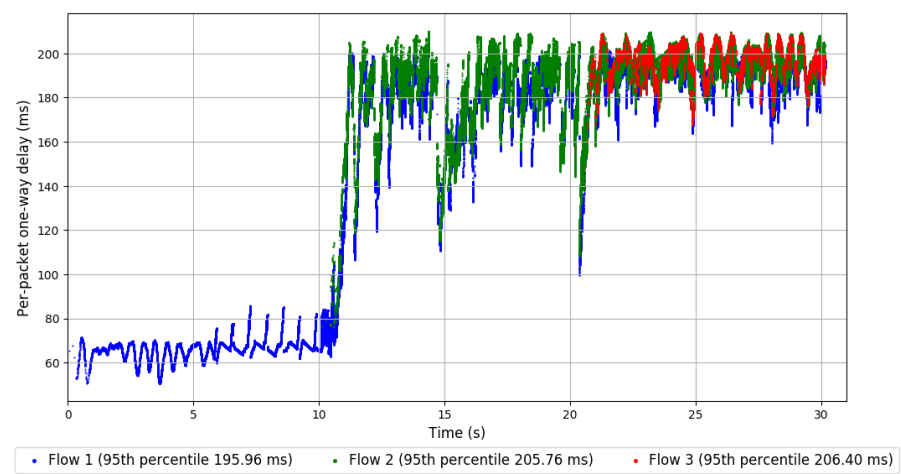
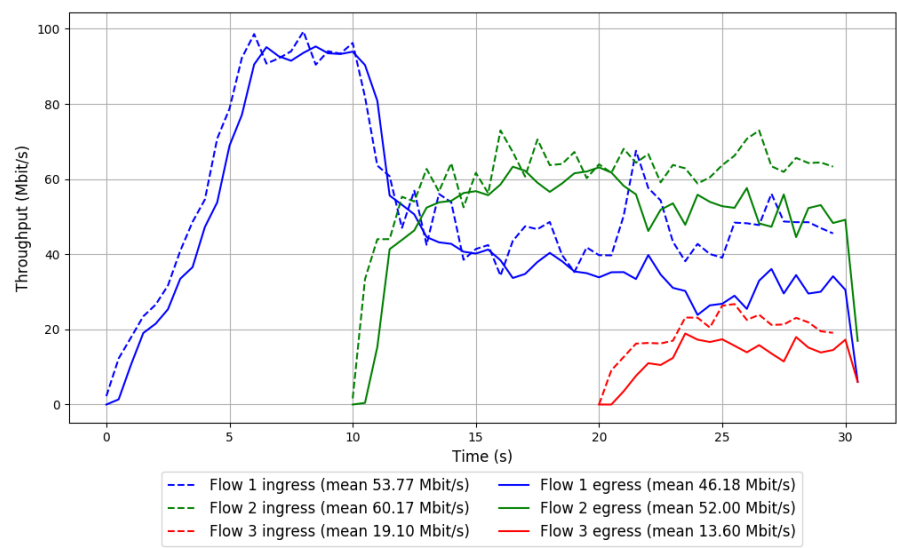


Run 1: Statistics of FillP

Start at: 2019-03-27 01:06:00
End at: 2019-03-27 01:06:30
Local clock offset: 0.602 ms
Remote clock offset: -19.282 ms

Below is generated by plot.py at 2019-03-27 03:21:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.33 Mbit/s
95th percentile per-packet one-way delay: 203.571 ms
Loss rate: 14.44%
-- Flow 1:
Average throughput: 46.18 Mbit/s
95th percentile per-packet one-way delay: 195.961 ms
Loss rate: 13.75%
-- Flow 2:
Average throughput: 52.00 Mbit/s
95th percentile per-packet one-way delay: 205.758 ms
Loss rate: 13.09%
-- Flow 3:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 206.403 ms
Loss rate: 28.81%

Run 1: Report of FillP — Data Link

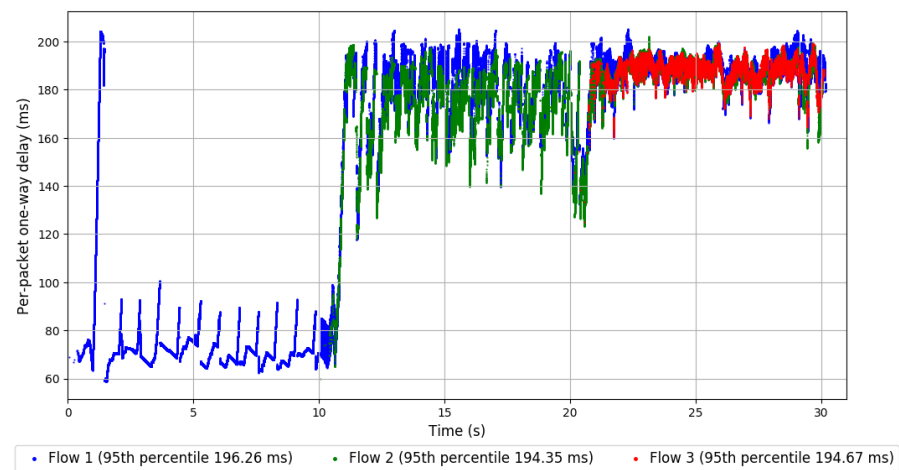
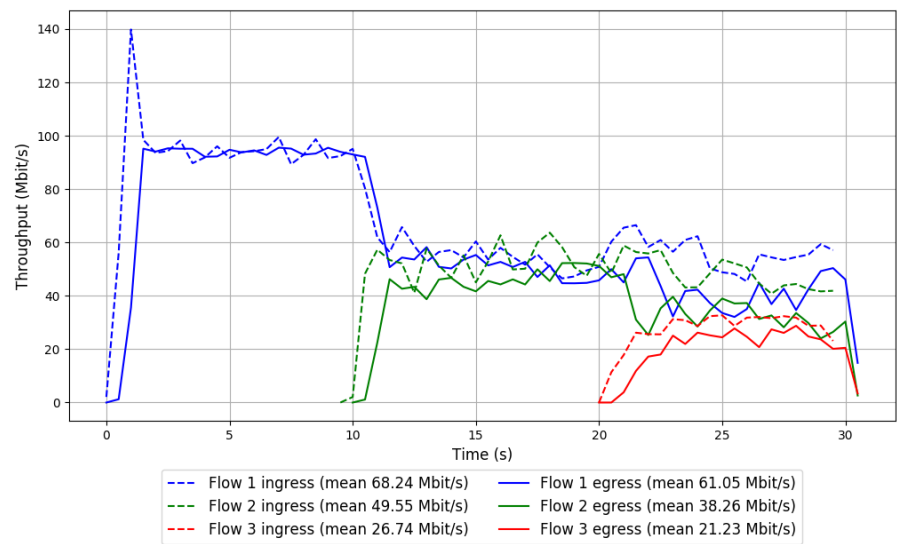


Run 2: Statistics of FillP

Start at: 2019-03-27 01:32:57
End at: 2019-03-27 01:33:27
Local clock offset: 0.66 ms
Remote clock offset: -21.462 ms

Below is generated by plot.py at 2019-03-27 03:21:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 195.452 ms
Loss rate: 14.76%
-- Flow 1:
Average throughput: 61.05 Mbit/s
95th percentile per-packet one-way delay: 196.258 ms
Loss rate: 10.21%
-- Flow 2:
Average throughput: 38.26 Mbit/s
95th percentile per-packet one-way delay: 194.354 ms
Loss rate: 22.60%
-- Flow 3:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 194.668 ms
Loss rate: 20.65%

Run 2: Report of FillP — Data Link

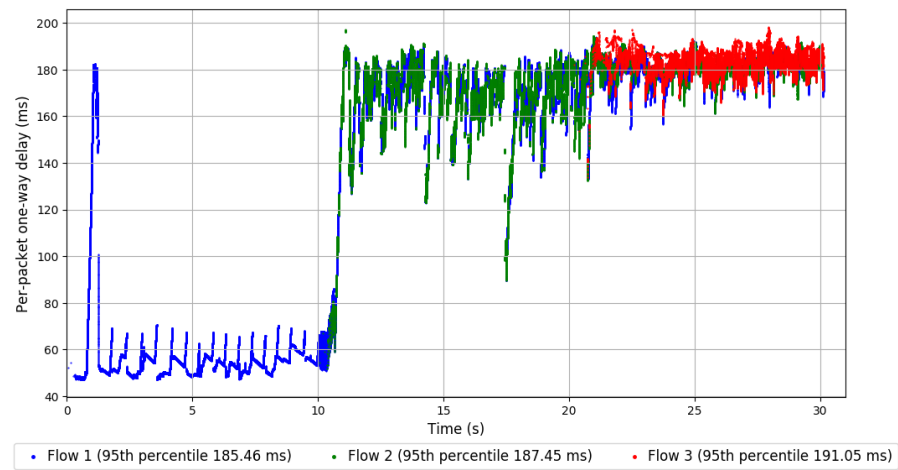
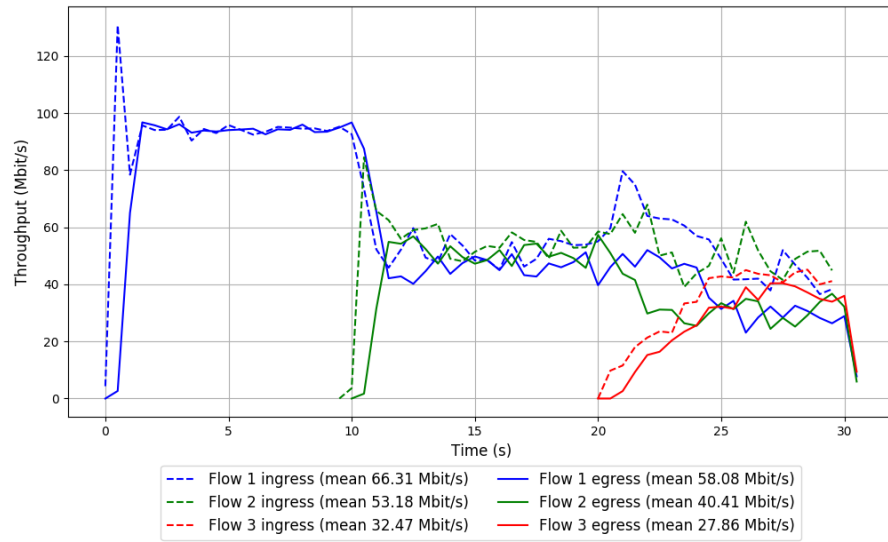


Run 3: Statistics of FillP

Start at: 2019-03-27 01:59:40
End at: 2019-03-27 02:00:10
Local clock offset: -1.263 ms
Remote clock offset: -11.526 ms

Below is generated by plot.py at 2019-03-27 03:21:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 187.318 ms
Loss rate: 15.98%
-- Flow 1:
Average throughput: 58.08 Mbit/s
95th percentile per-packet one-way delay: 185.458 ms
Loss rate: 12.04%
-- Flow 2:
Average throughput: 40.41 Mbit/s
95th percentile per-packet one-way delay: 187.446 ms
Loss rate: 23.90%
-- Flow 3:
Average throughput: 27.86 Mbit/s
95th percentile per-packet one-way delay: 191.046 ms
Loss rate: 14.17%

Run 3: Report of FillP — Data Link

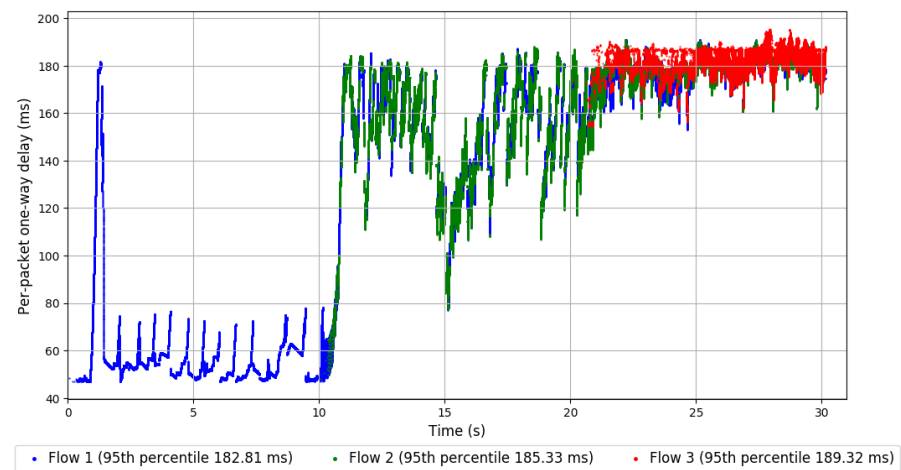
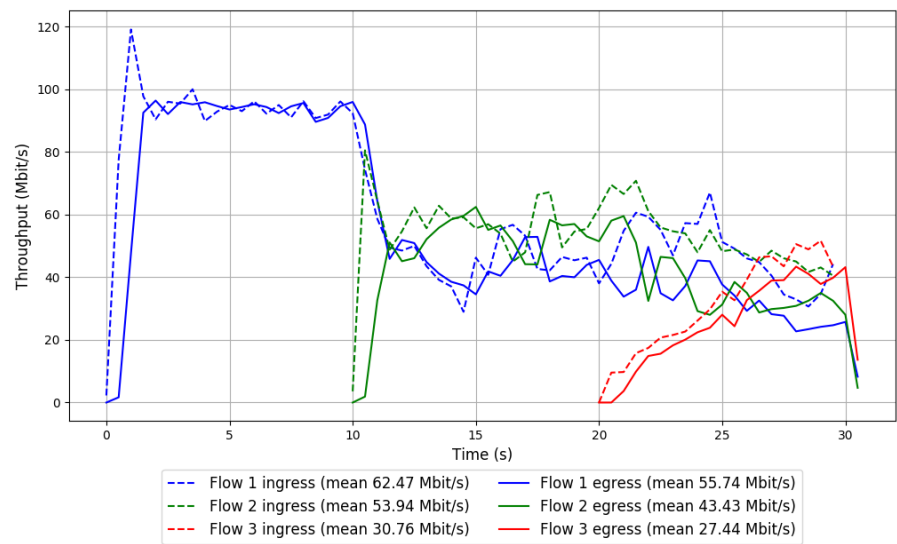


Run 4: Statistics of FillP

Start at: 2019-03-27 02:26:26
End at: 2019-03-27 02:26:56
Local clock offset: -2.797 ms
Remote clock offset: -10.864 ms

Below is generated by plot.py at 2019-03-27 03:21:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.73 Mbit/s
95th percentile per-packet one-way delay: 185.664 ms
Loss rate: 13.35%
-- Flow 1:
Average throughput: 55.74 Mbit/s
95th percentile per-packet one-way delay: 182.815 ms
Loss rate: 10.41%
-- Flow 2:
Average throughput: 43.43 Mbit/s
95th percentile per-packet one-way delay: 185.326 ms
Loss rate: 19.21%
-- Flow 3:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 189.321 ms
Loss rate: 10.68%

Run 4: Report of FillP — Data Link

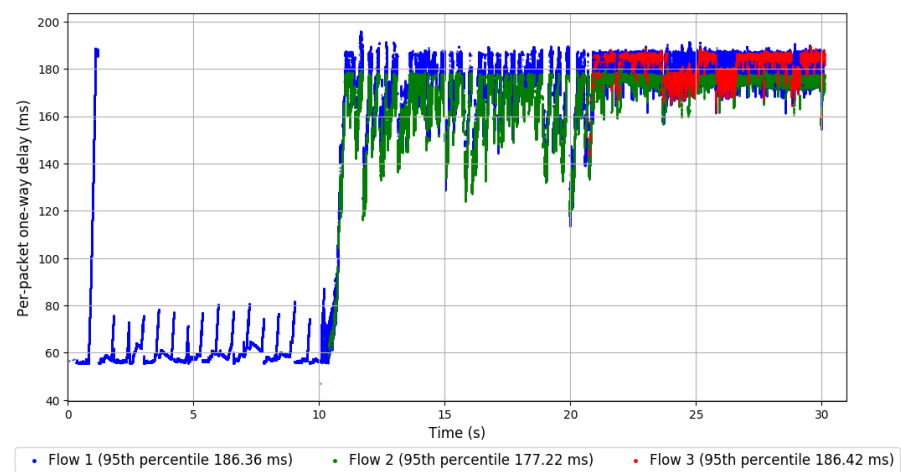
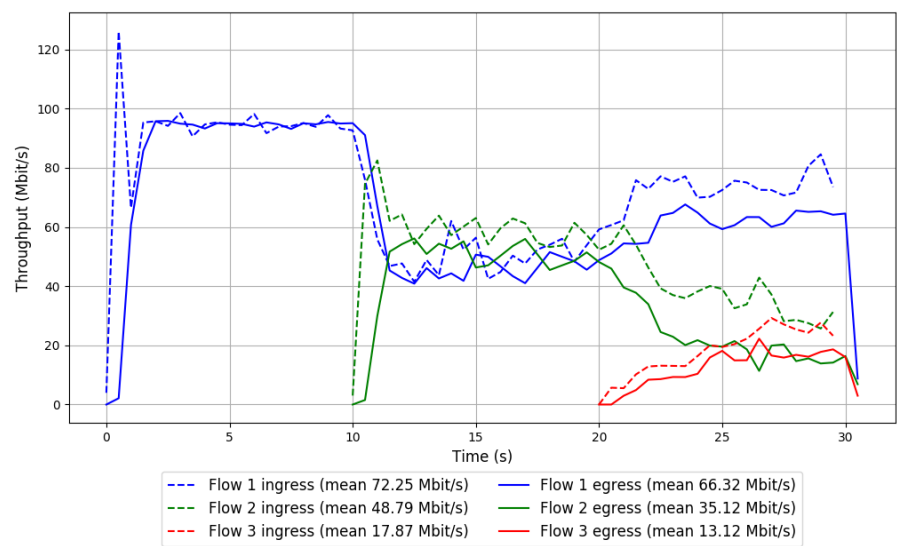


Run 5: Statistics of FillP

Start at: 2019-03-27 02:53:13
End at: 2019-03-27 02:53:43
Local clock offset: -0.815 ms
Remote clock offset: -11.297 ms

Below is generated by plot.py at 2019-03-27 03:21:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.97 Mbit/s
95th percentile per-packet one-way delay: 186.127 ms
Loss rate: 14.77%
-- Flow 1:
Average throughput: 66.32 Mbit/s
95th percentile per-packet one-way delay: 186.356 ms
Loss rate: 8.05%
-- Flow 2:
Average throughput: 35.12 Mbit/s
95th percentile per-packet one-way delay: 177.217 ms
Loss rate: 27.57%
-- Flow 3:
Average throughput: 13.12 Mbit/s
95th percentile per-packet one-way delay: 186.417 ms
Loss rate: 26.42%

Run 5: Report of FillP — Data Link

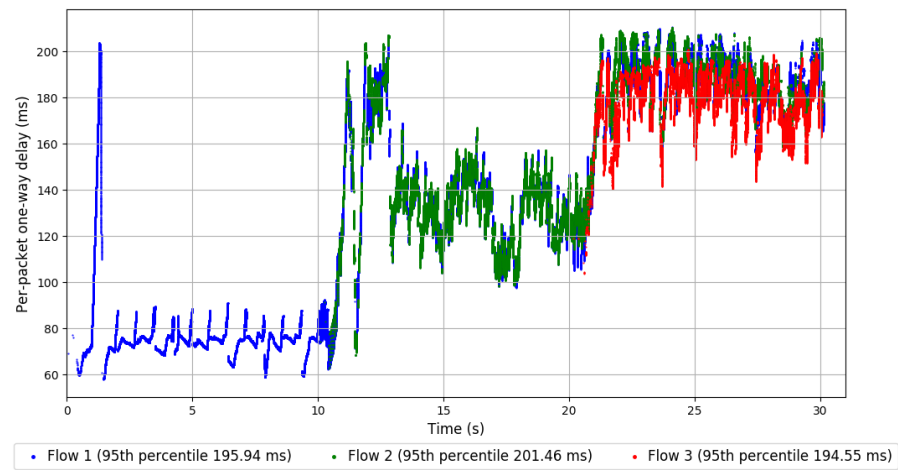
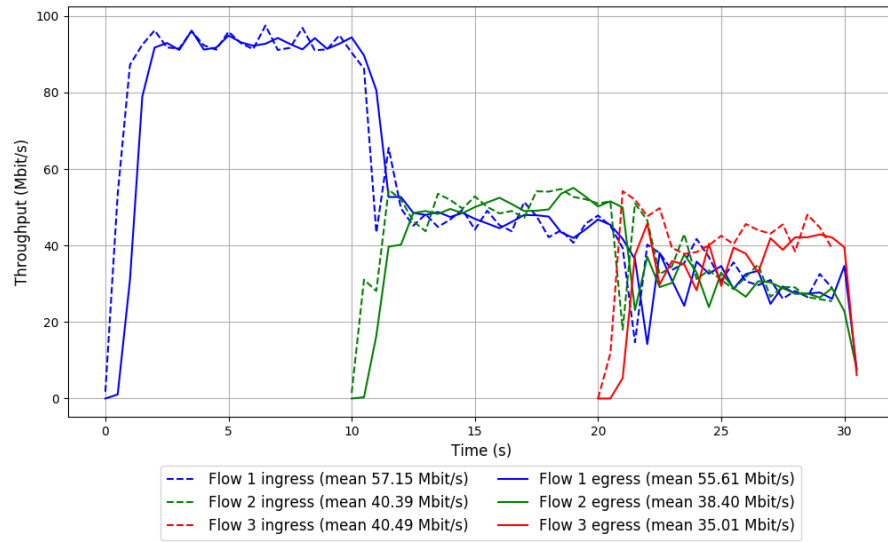


Run 1: Statistics of FillP-Sheep

Start at: 2019-03-27 01:08:35
End at: 2019-03-27 01:09:05
Local clock offset: 0.635 ms
Remote clock offset: -20.521 ms

Below is generated by plot.py at 2019-03-27 03:21:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 197.405 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 55.61 Mbit/s
95th percentile per-packet one-way delay: 195.938 ms
Loss rate: 2.36%
-- Flow 2:
Average throughput: 38.40 Mbit/s
95th percentile per-packet one-way delay: 201.460 ms
Loss rate: 4.43%
-- Flow 3:
Average throughput: 35.01 Mbit/s
95th percentile per-packet one-way delay: 194.549 ms
Loss rate: 13.57%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-03-27 01:35:31

End at: 2019-03-27 01:36:01

Local clock offset: 0.695 ms

Remote clock offset: -20.521 ms

Below is generated by plot.py at 2019-03-27 03:21:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 186.132 ms

Loss rate: 4.75%

-- Flow 1:

Average throughput: 57.20 Mbit/s

95th percentile per-packet one-way delay: 184.108 ms

Loss rate: 3.09%

-- Flow 2:

Average throughput: 34.58 Mbit/s

95th percentile per-packet one-way delay: 186.184 ms

Loss rate: 4.00%

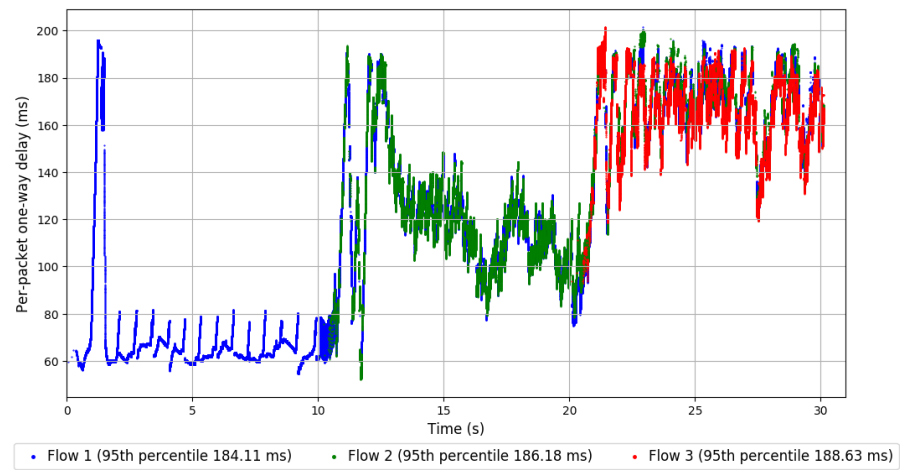
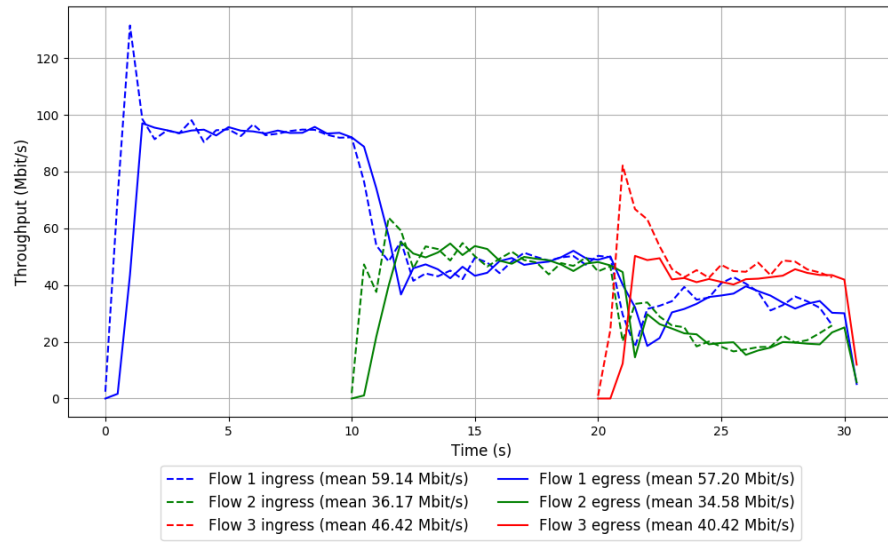
-- Flow 3:

Average throughput: 40.42 Mbit/s

95th percentile per-packet one-way delay: 188.633 ms

Loss rate: 12.31%

Run 2: Report of FillP-Sheep — Data Link

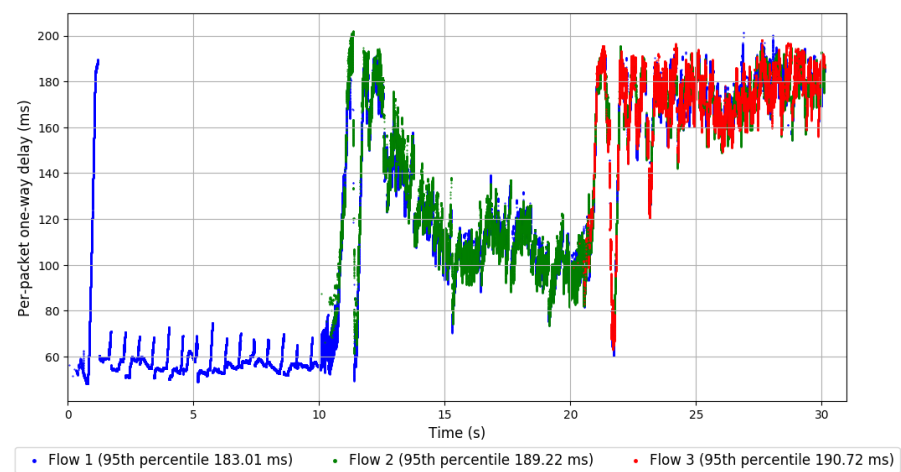
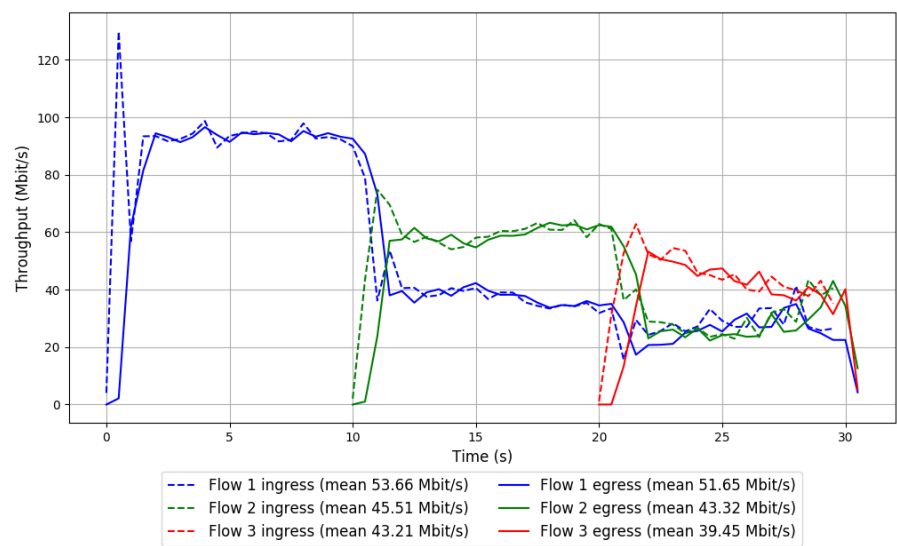


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-27 02:02:12
End at: 2019-03-27 02:02:42
Local clock offset: -1.577 ms
Remote clock offset: -14.933 ms

Below is generated by plot.py at 2019-03-27 03:22:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 187.462 ms
Loss rate: 4.37%
-- Flow 1:
Average throughput: 51.65 Mbit/s
95th percentile per-packet one-way delay: 183.009 ms
Loss rate: 3.36%
-- Flow 2:
Average throughput: 43.32 Mbit/s
95th percentile per-packet one-way delay: 189.219 ms
Loss rate: 4.35%
-- Flow 3:
Average throughput: 39.45 Mbit/s
95th percentile per-packet one-way delay: 190.717 ms
Loss rate: 8.22%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-03-27 02:28:58

End at: 2019-03-27 02:29:28

Local clock offset: -3.039 ms

Remote clock offset: -11.667 ms

Below is generated by plot.py at 2019-03-27 03:22:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 185.048 ms

Loss rate: 5.27%

-- Flow 1:

Average throughput: 56.44 Mbit/s

95th percentile per-packet one-way delay: 183.811 ms

Loss rate: 3.30%

-- Flow 2:

Average throughput: 39.21 Mbit/s

95th percentile per-packet one-way delay: 185.471 ms

Loss rate: 7.26%

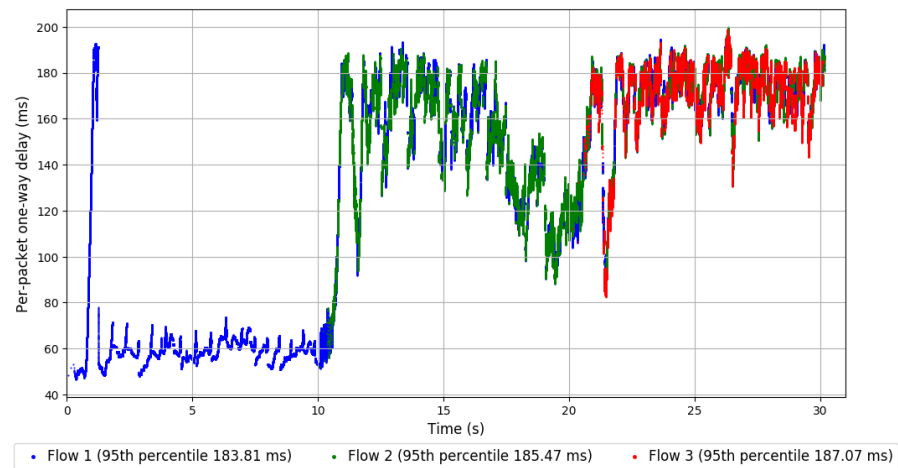
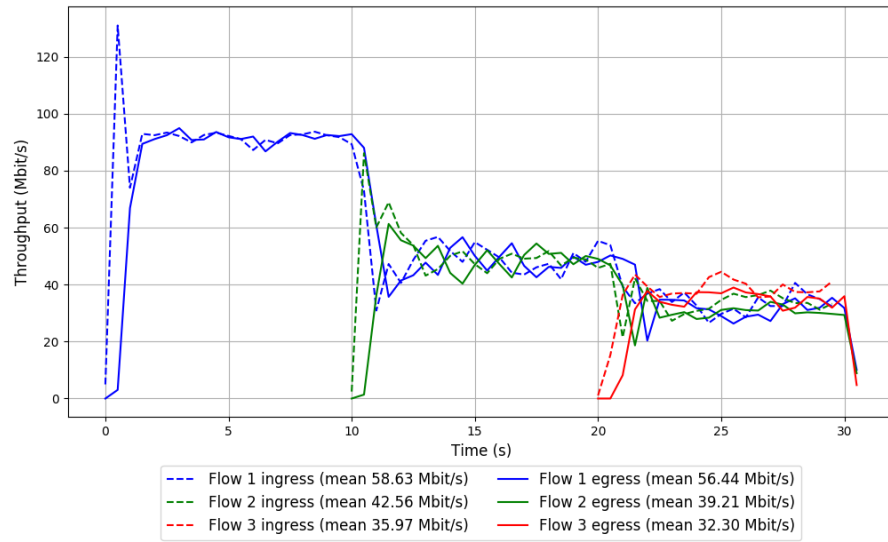
-- Flow 3:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 187.068 ms

Loss rate: 10.23%

Run 4: Report of FillP-Sheep — Data Link

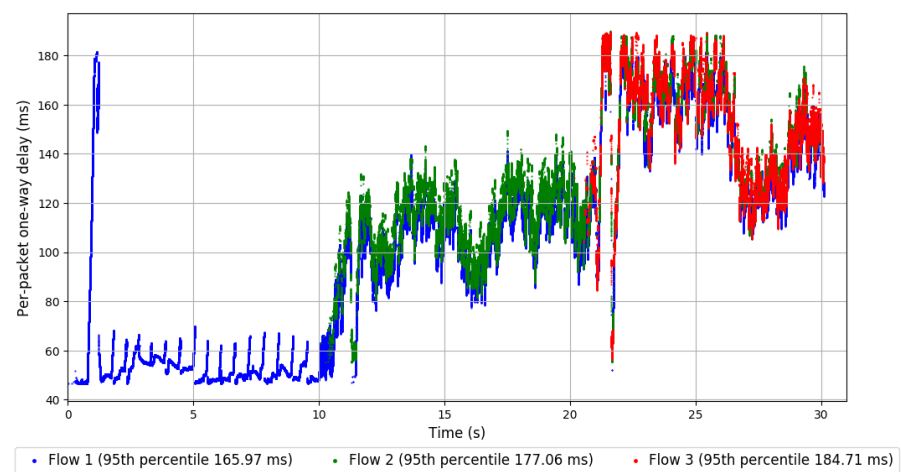
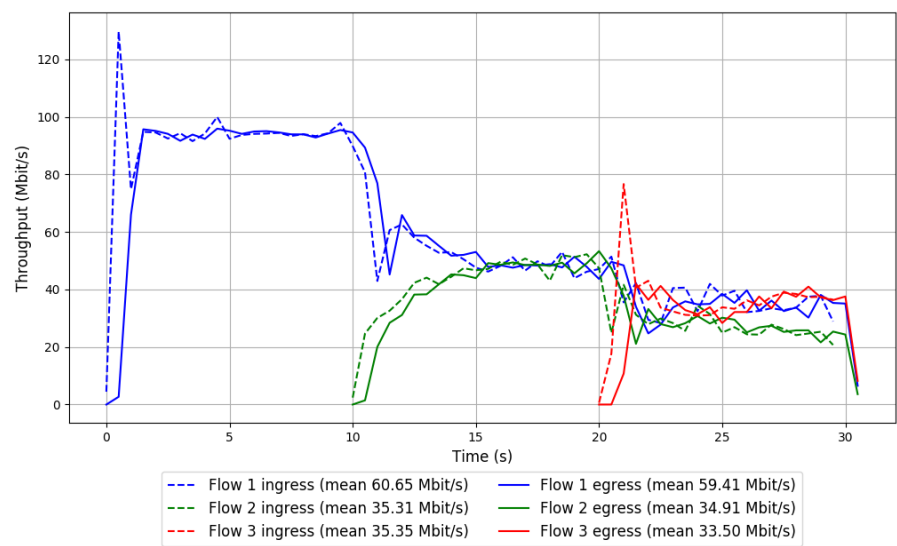


Run 5: Statistics of FillP-Sheep

Start at: 2019-03-27 02:55:45
End at: 2019-03-27 02:56:15
Local clock offset: -0.016 ms
Remote clock offset: -11.231 ms

Below is generated by plot.py at 2019-03-27 03:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 175.363 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 165.965 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 34.91 Mbit/s
95th percentile per-packet one-way delay: 177.055 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 33.50 Mbit/s
95th percentile per-packet one-way delay: 184.705 ms
Loss rate: 5.15%

Run 5: Report of FillP-Sheep — Data Link

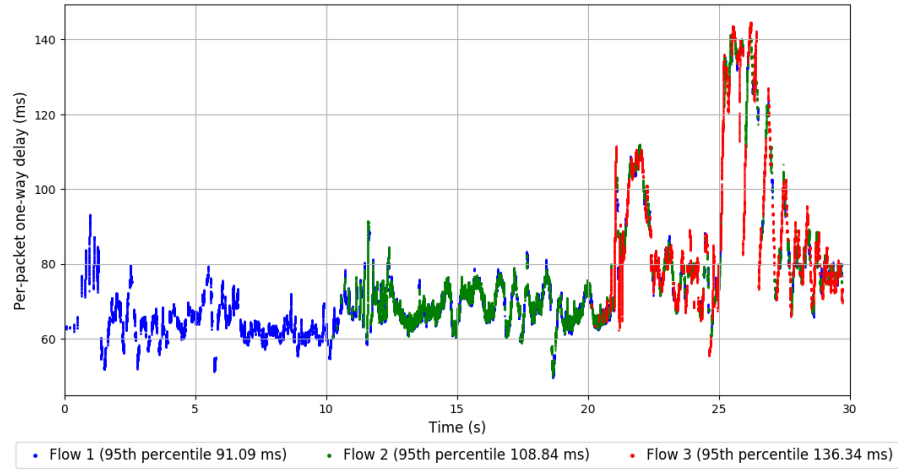
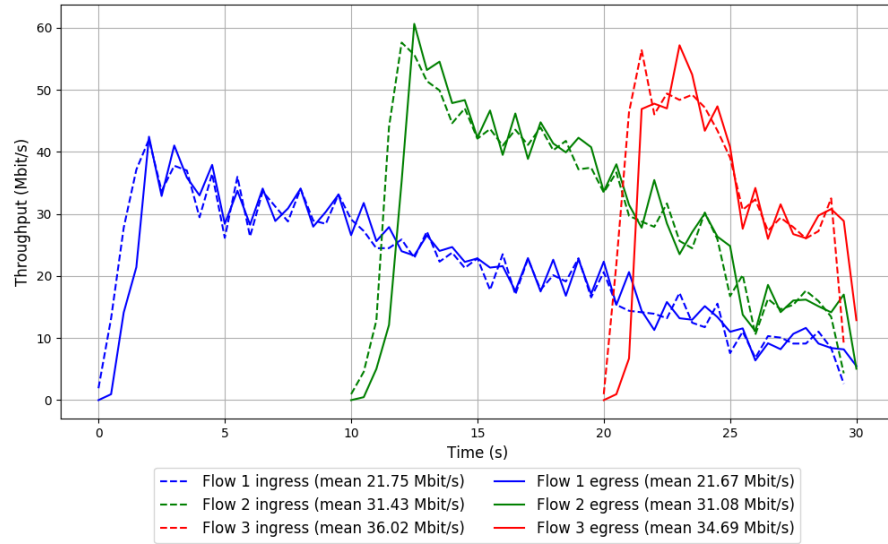


```
Run 1: Statistics of Indigo

Start at: 2019-03-27 01:30:20
End at: 2019-03-27 01:30:50
Local clock offset: 0.781 ms
Remote clock offset: -23.079 ms

# Below is generated by plot.py at 2019-03-27 03:23:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 53.23 Mbit/s
95th percentile per-packet one-way delay: 111.183 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 91.089 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 108.837 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 34.69 Mbit/s
95th percentile per-packet one-way delay: 136.343 ms
Loss rate: 3.74%
```

Run 1: Report of Indigo — Data Link

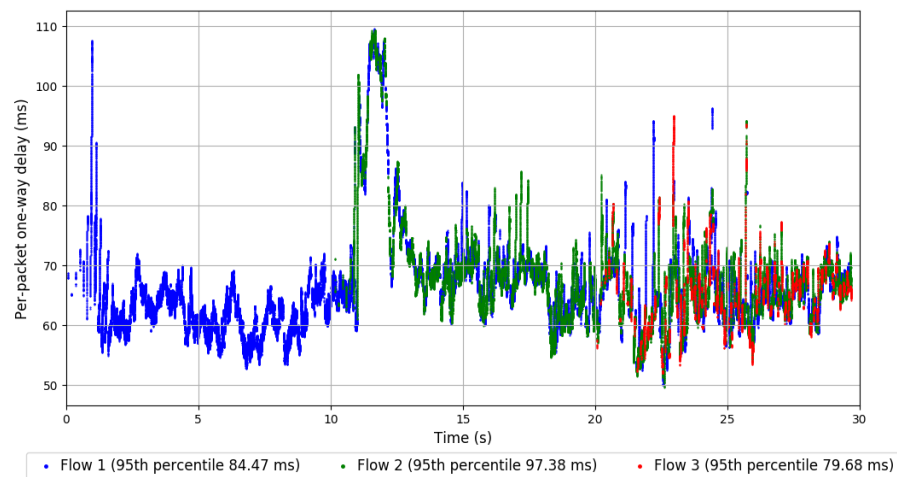
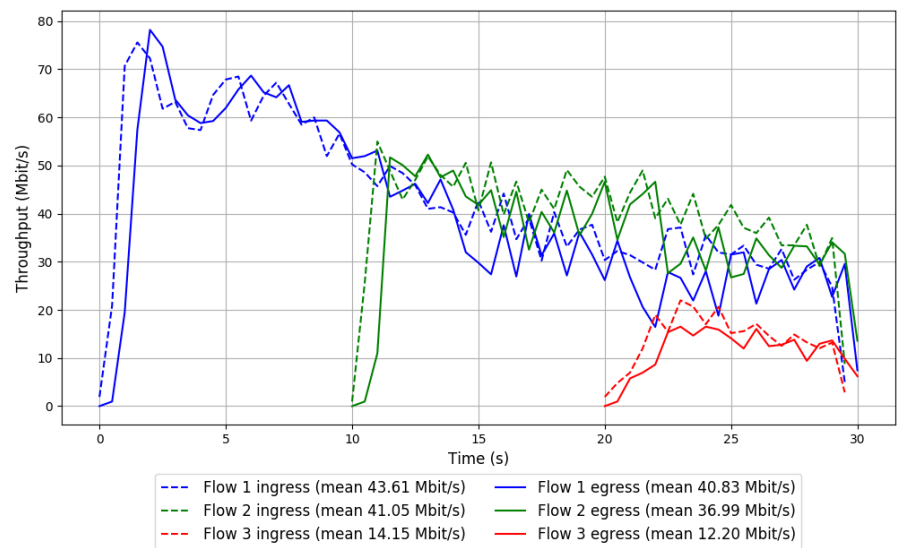


Run 2: Statistics of Indigo

Start at: 2019-03-27 01:57:04
End at: 2019-03-27 01:57:34
Local clock offset: -0.987 ms
Remote clock offset: -19.526 ms

Below is generated by plot.py at 2019-03-27 03:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 69.04 Mbit/s
95th percentile per-packet one-way delay: 87.233 ms
Loss rate: 8.08%
-- Flow 1:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 84.474 ms
Loss rate: 6.37%
-- Flow 2:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 97.377 ms
Loss rate: 9.87%
-- Flow 3:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 79.679 ms
Loss rate: 13.67%

Run 2: Report of Indigo — Data Link

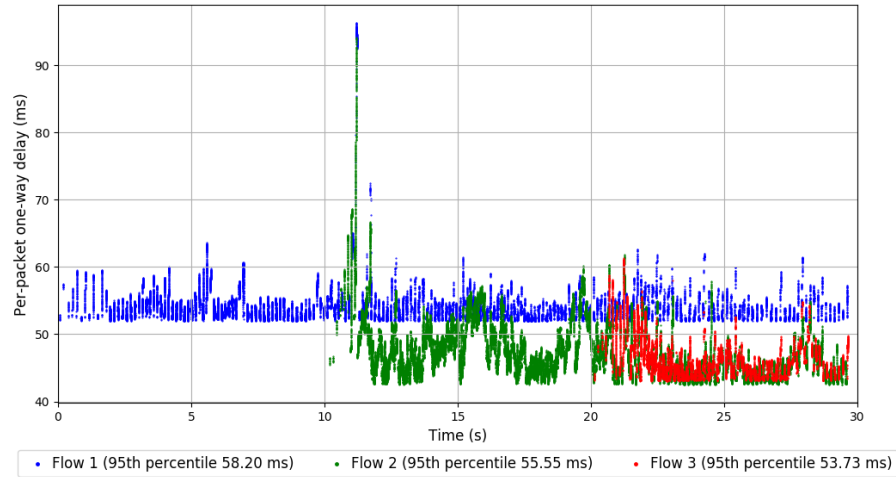
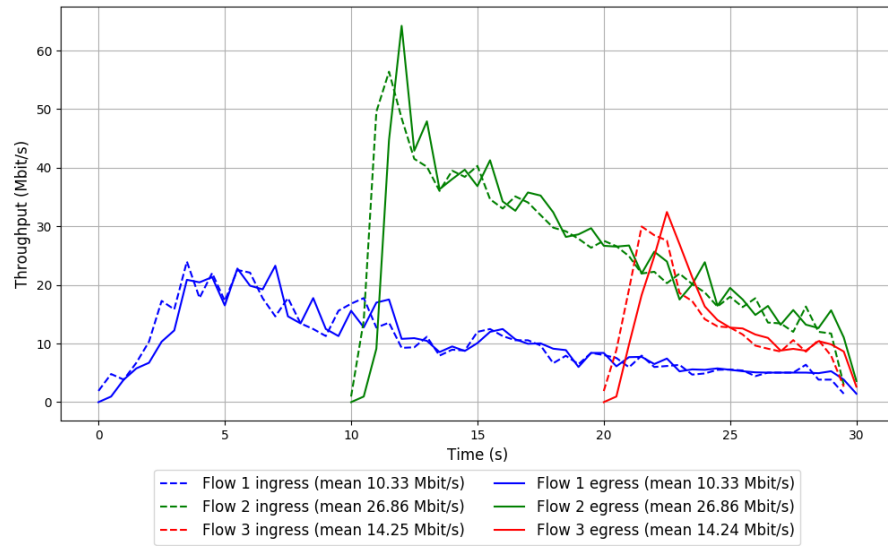


Run 3: Statistics of Indigo

Start at: 2019-03-27 02:23:51
End at: 2019-03-27 02:24:21
Local clock offset: -2.683 ms
Remote clock offset: -15.724 ms

Below is generated by plot.py at 2019-03-27 03:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.51 Mbit/s
95th percentile per-packet one-way delay: 57.033 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 58.200 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.86 Mbit/s
95th percentile per-packet one-way delay: 55.548 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.24 Mbit/s
95th percentile per-packet one-way delay: 53.727 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

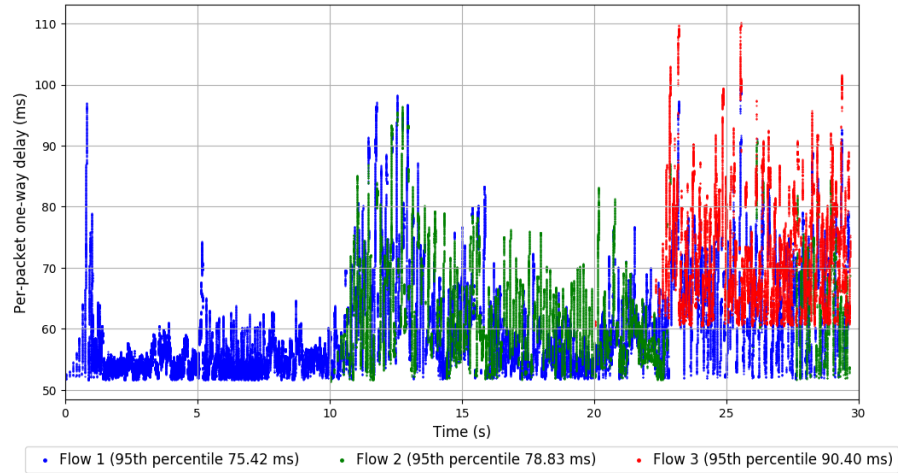
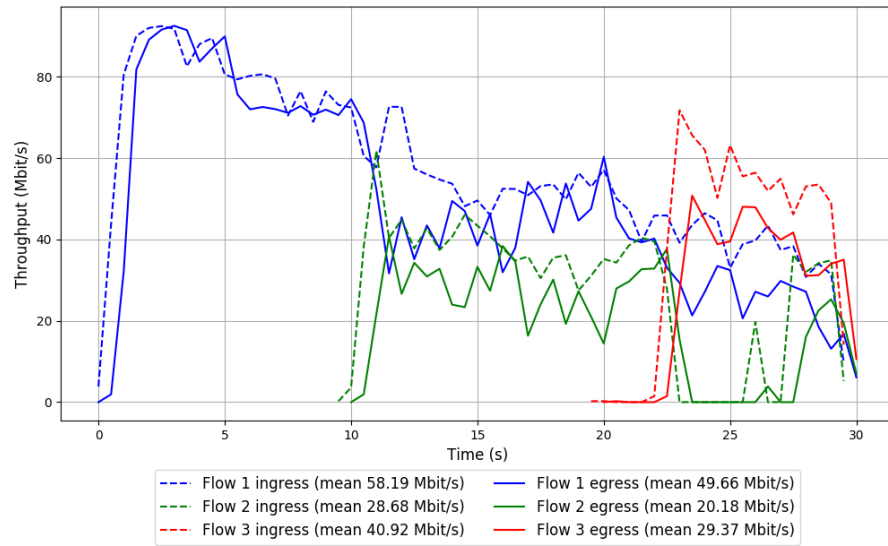


Run 4: Statistics of Indigo

Start at: 2019-03-27 02:50:38
End at: 2019-03-27 02:51:08
Local clock offset: -1.358 ms
Remote clock offset: -6.034 ms

Below is generated by plot.py at 2019-03-27 03:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.48 Mbit/s
95th percentile per-packet one-way delay: 81.144 ms
Loss rate: 19.73%
-- Flow 1:
Average throughput: 49.66 Mbit/s
95th percentile per-packet one-way delay: 75.420 ms
Loss rate: 14.58%
-- Flow 2:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 78.828 ms
Loss rate: 29.57%
-- Flow 3:
Average throughput: 29.37 Mbit/s
95th percentile per-packet one-way delay: 90.400 ms
Loss rate: 28.17%

Run 4: Report of Indigo — Data Link

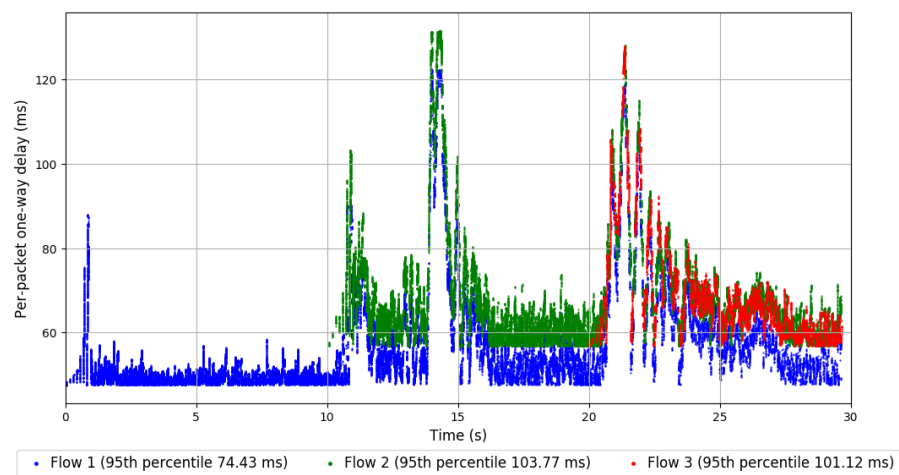
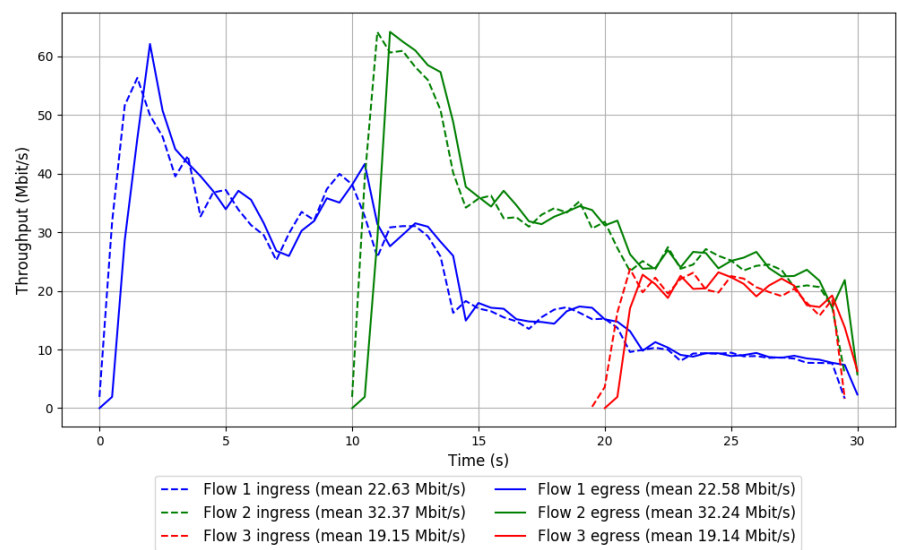


Run 5: Statistics of Indigo

Start at: 2019-03-27 03:17:31
End at: 2019-03-27 03:18:01
Local clock offset: 2.427 ms
Remote clock offset: -10.546 ms

Below is generated by plot.py at 2019-03-27 03:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.11 Mbit/s
95th percentile per-packet one-way delay: 93.695 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 22.58 Mbit/s
95th percentile per-packet one-way delay: 74.429 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 103.772 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 19.14 Mbit/s
95th percentile per-packet one-way delay: 101.125 ms
Loss rate: 0.03%

Run 5: Report of Indigo — Data Link

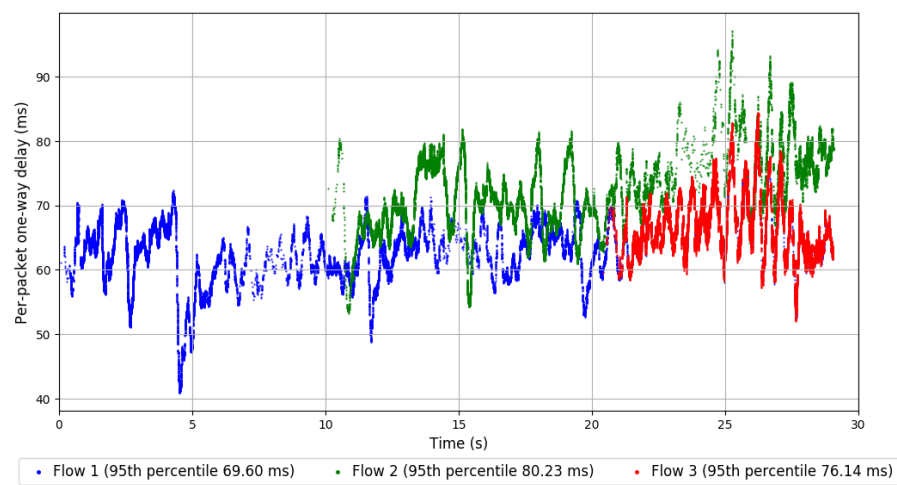
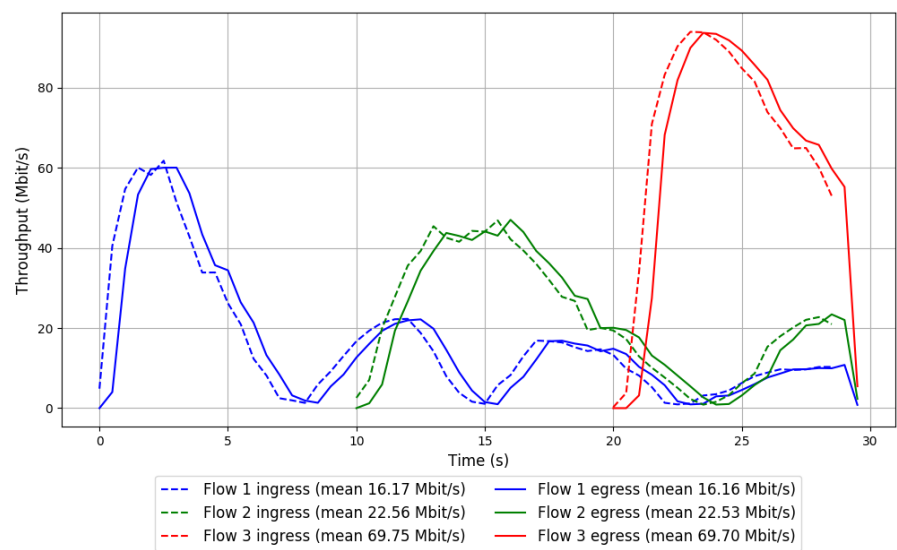


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-27 01:15:05
End at: 2019-03-27 01:15:35
Local clock offset: 0.711 ms
Remote clock offset: -18.849 ms

Below is generated by plot.py at 2019-03-27 03:23:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.62 Mbit/s
95th percentile per-packet one-way delay: 77.875 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 16.16 Mbit/s
95th percentile per-packet one-way delay: 69.601 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 22.53 Mbit/s
95th percentile per-packet one-way delay: 80.232 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 69.70 Mbit/s
95th percentile per-packet one-way delay: 76.145 ms
Loss rate: 0.03%

Run 1: Report of Indigo-MusesC3 — Data Link

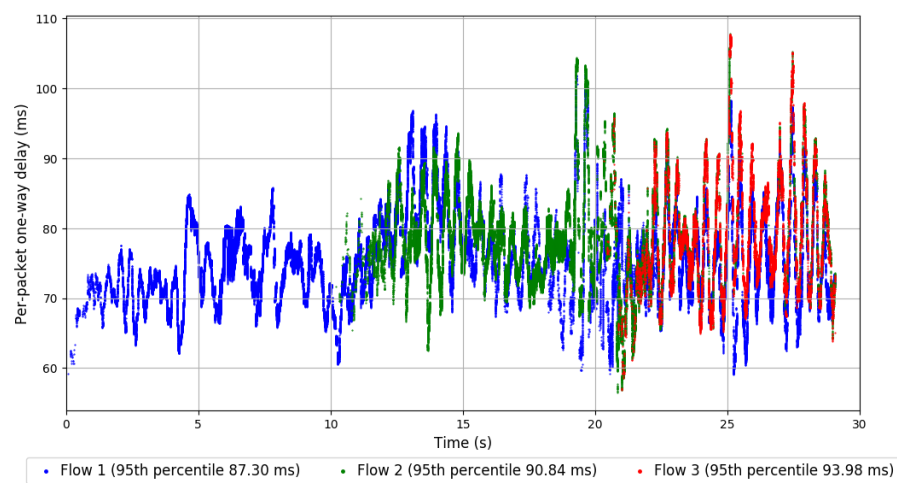
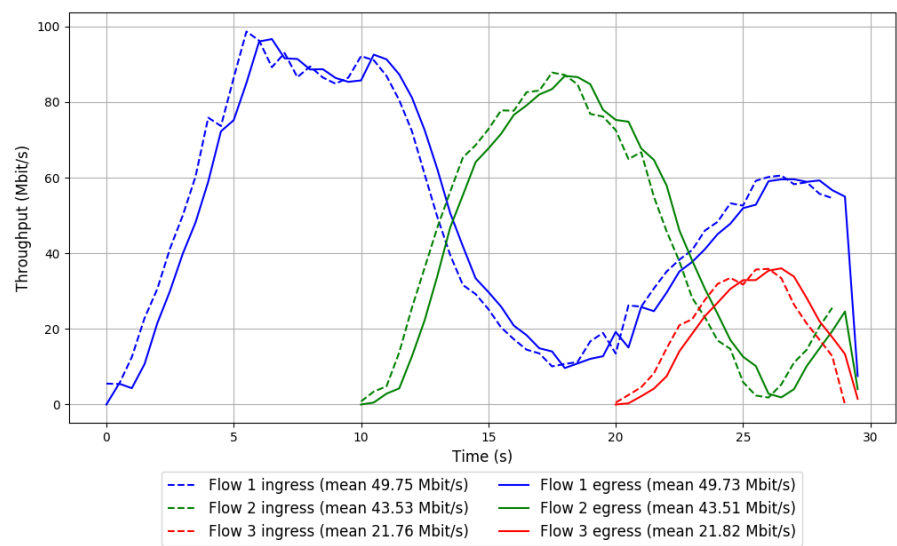


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-27 01:41:58
End at: 2019-03-27 01:42:28
Local clock offset: 0.751 ms
Remote clock offset: -8.832 ms

Below is generated by plot.py at 2019-03-27 03:23:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 89.646 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 49.73 Mbit/s
95th percentile per-packet one-way delay: 87.303 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.51 Mbit/s
95th percentile per-packet one-way delay: 90.842 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 21.82 Mbit/s
95th percentile per-packet one-way delay: 93.985 ms
Loss rate: 0.01%

Run 2: Report of Indigo-MusesC3 — Data Link

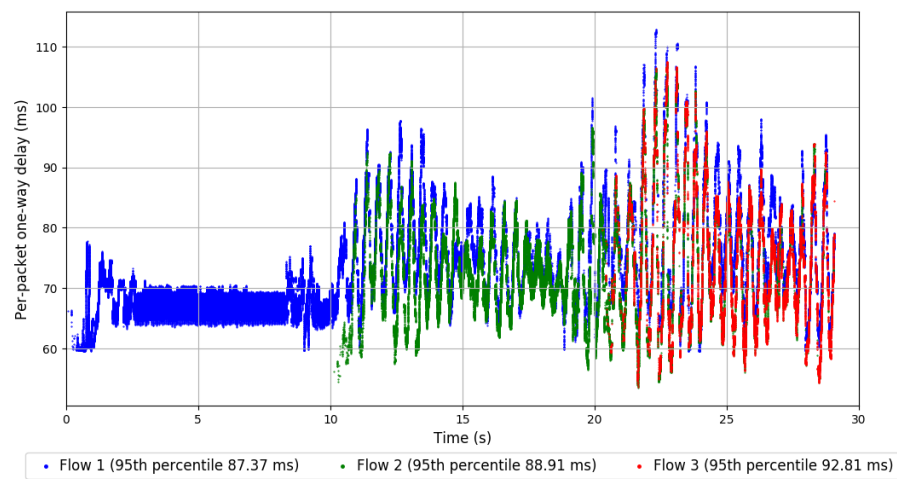
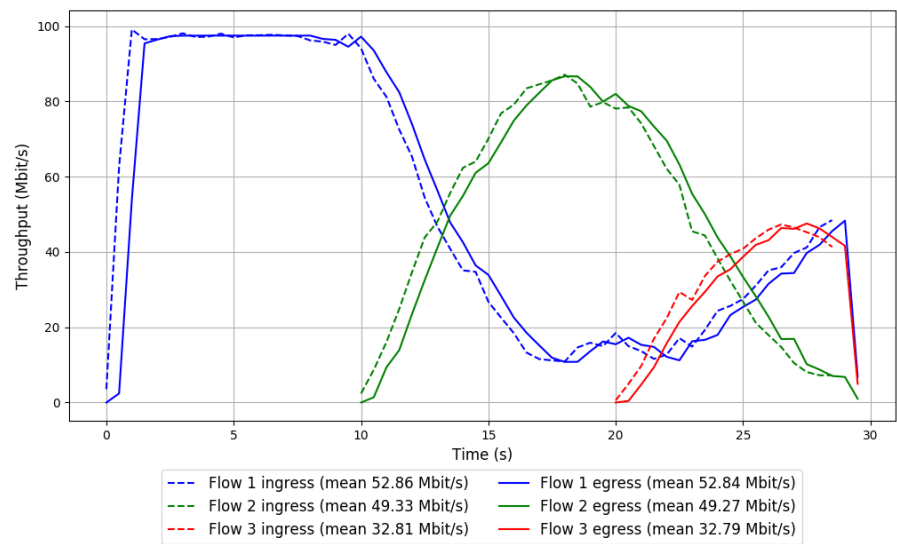


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-27 02:08:39
End at: 2019-03-27 02:09:09
Local clock offset: -1.964 ms
Remote clock offset: -8.644 ms

Below is generated by plot.py at 2019-03-27 03:23:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 88.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.84 Mbit/s
95th percentile per-packet one-way delay: 87.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.27 Mbit/s
95th percentile per-packet one-way delay: 88.905 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.79 Mbit/s
95th percentile per-packet one-way delay: 92.809 ms
Loss rate: 0.02%

Run 3: Report of Indigo-MusesC3 — Data Link

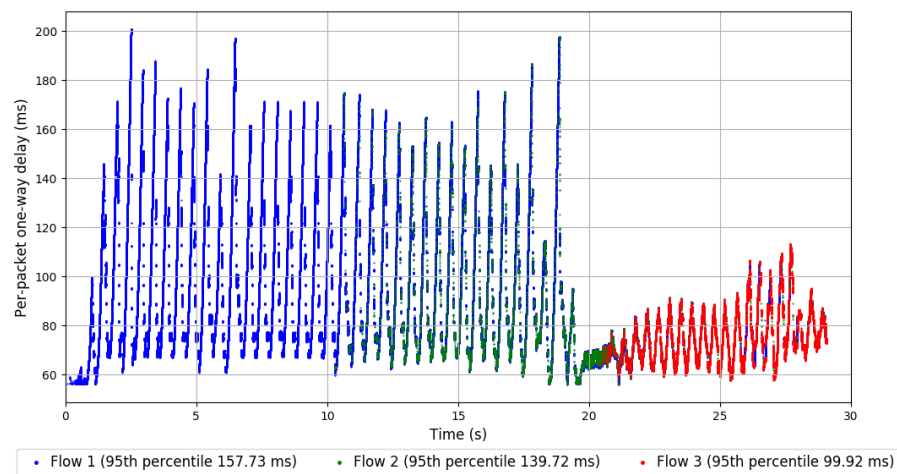
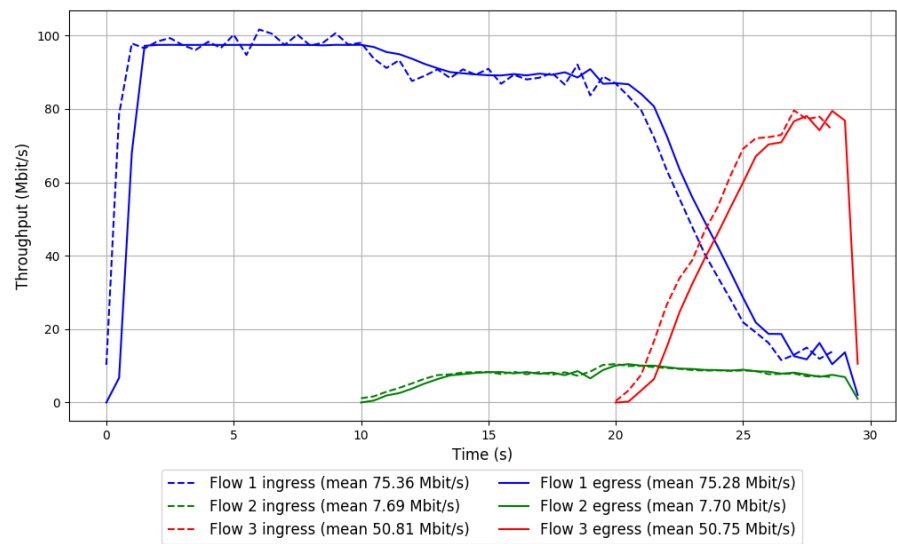


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-27 02:35:28
End at: 2019-03-27 02:35:58
Local clock offset: -3.129 ms
Remote clock offset: -10.199 ms

Below is generated by plot.py at 2019-03-27 03:23:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.53 Mbit/s
95th percentile per-packet one-way delay: 153.663 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 75.28 Mbit/s
95th percentile per-packet one-way delay: 157.733 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 139.715 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.75 Mbit/s
95th percentile per-packet one-way delay: 99.923 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

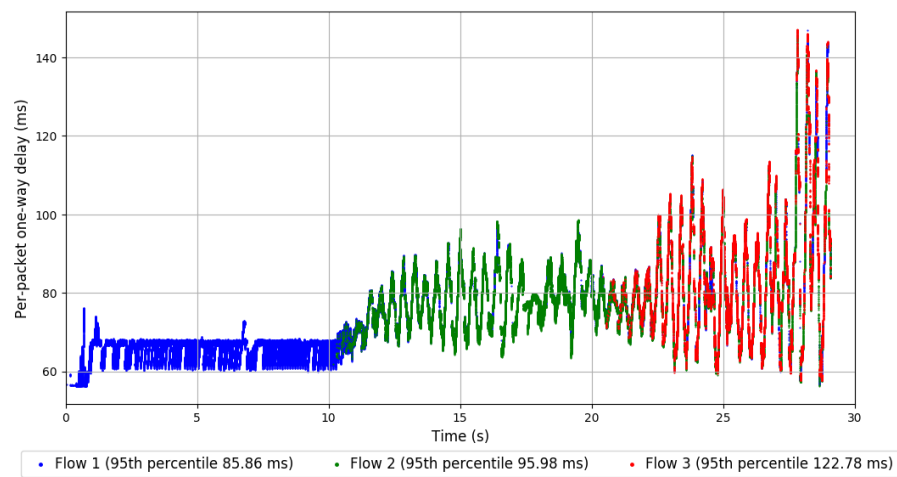
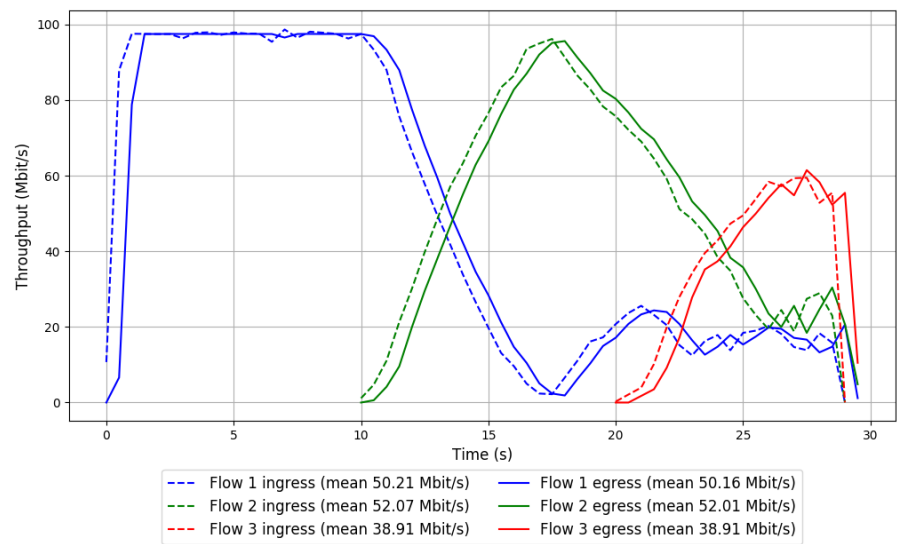


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-27 03:02:14
End at: 2019-03-27 03:02:44
Local clock offset: 0.971 ms
Remote clock offset: -10.52 ms

Below is generated by plot.py at 2019-03-27 03:23:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.68 Mbit/s
95th percentile per-packet one-way delay: 96.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.16 Mbit/s
95th percentile per-packet one-way delay: 85.860 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 52.01 Mbit/s
95th percentile per-packet one-way delay: 95.981 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 122.782 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

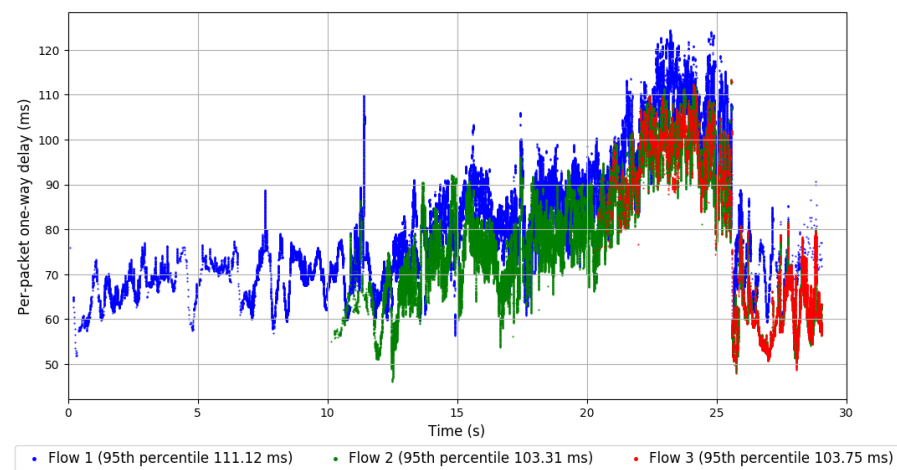
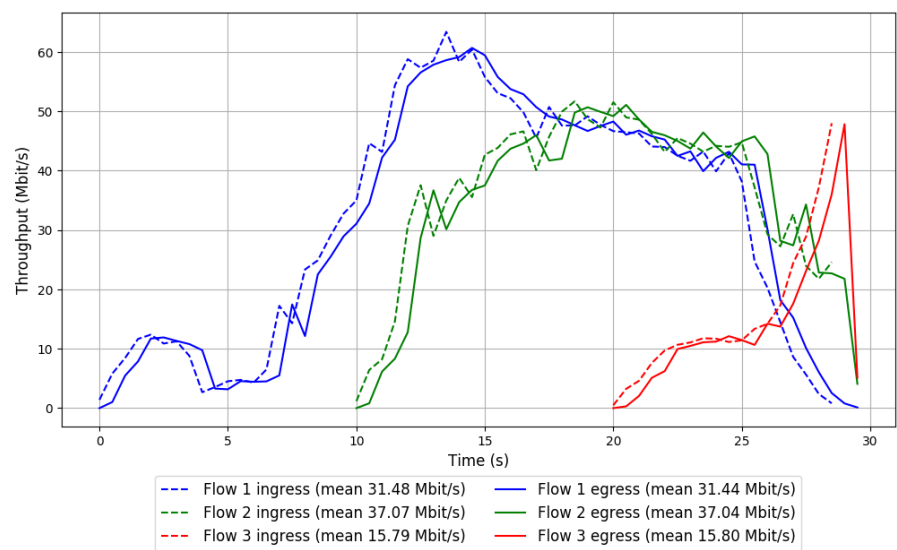


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-27 01:09:54
End at: 2019-03-27 01:10:24
Local clock offset: 0.779 ms
Remote clock offset: -21.501 ms

Below is generated by plot.py at 2019-03-27 03:23:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 107.904 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 111.122 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 37.04 Mbit/s
95th percentile per-packet one-way delay: 103.308 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 103.753 ms
Loss rate: 0.11%

Run 1: Report of Indigo-MusesC5 — Data Link

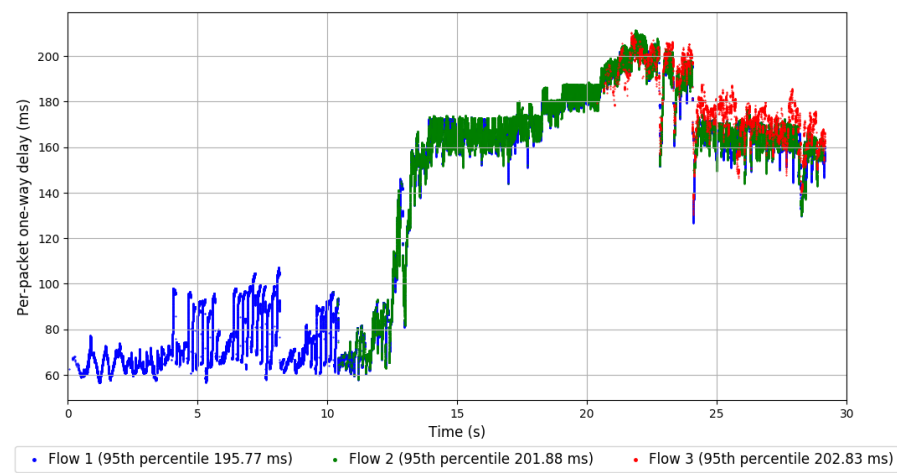
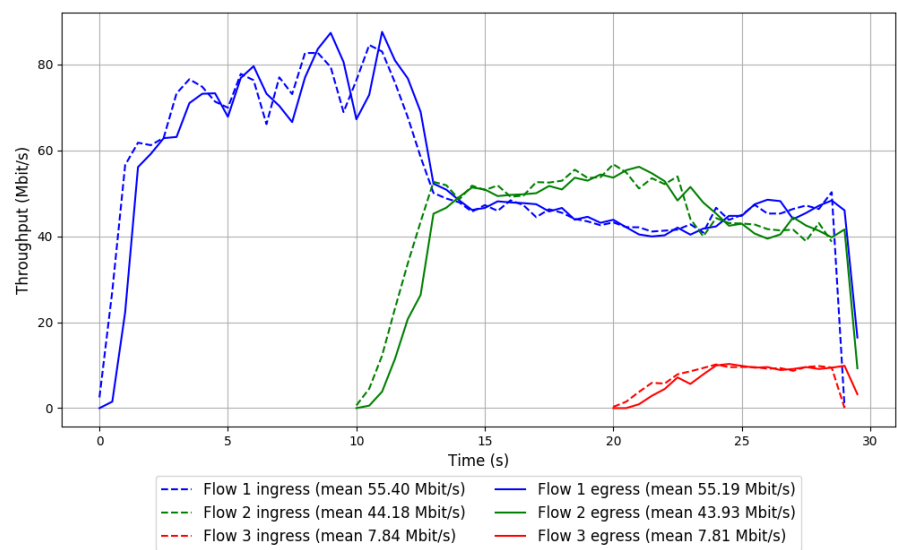


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-27 01:36:49
End at: 2019-03-27 01:37:19
Local clock offset: 0.82 ms
Remote clock offset: -16.502 ms

Below is generated by plot.py at 2019-03-27 03:23:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.04 Mbit/s
95th percentile per-packet one-way delay: 199.255 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 195.770 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 43.93 Mbit/s
95th percentile per-packet one-way delay: 201.877 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 202.827 ms
Loss rate: 0.56%

Run 2: Report of Indigo-MusesC5 — Data Link

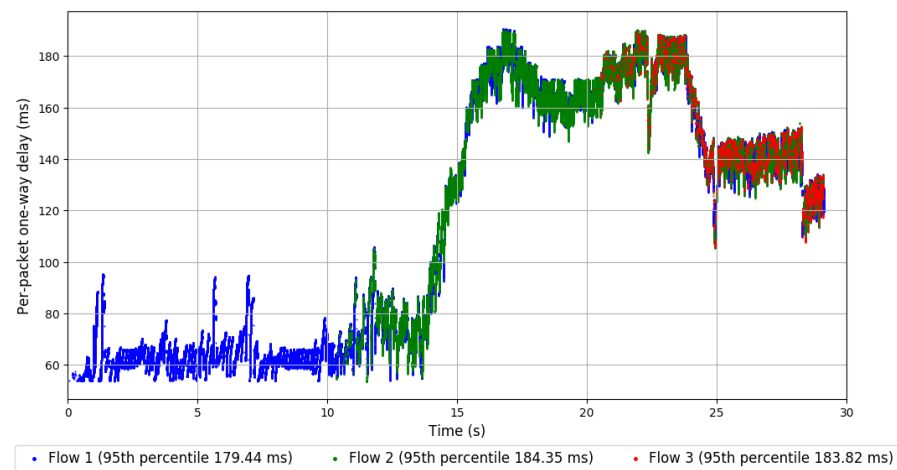
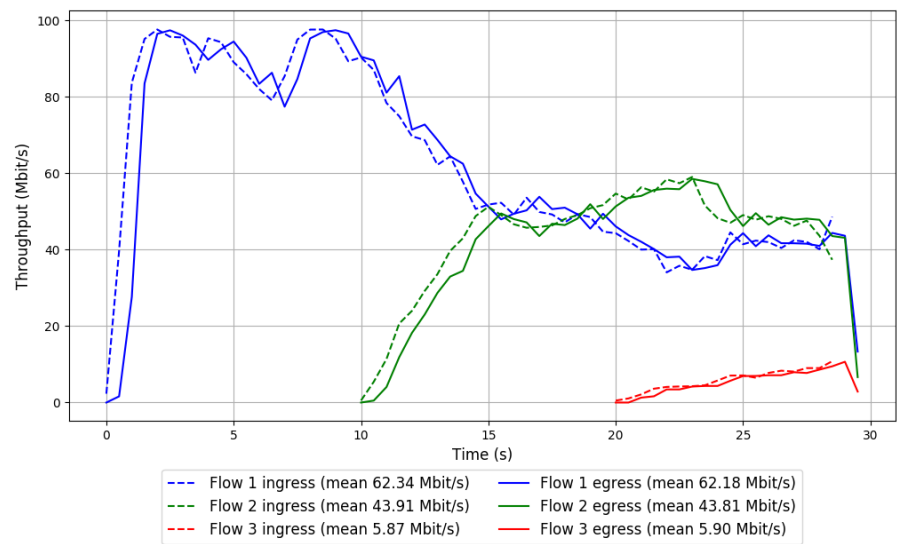


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-27 02:03:30
End at: 2019-03-27 02:04:00
Local clock offset: -1.681 ms
Remote clock offset: -14.194 ms

Below is generated by plot.py at 2019-03-27 03:23:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 182.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.18 Mbit/s
95th percentile per-packet one-way delay: 179.441 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 184.352 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.90 Mbit/s
95th percentile per-packet one-way delay: 183.823 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

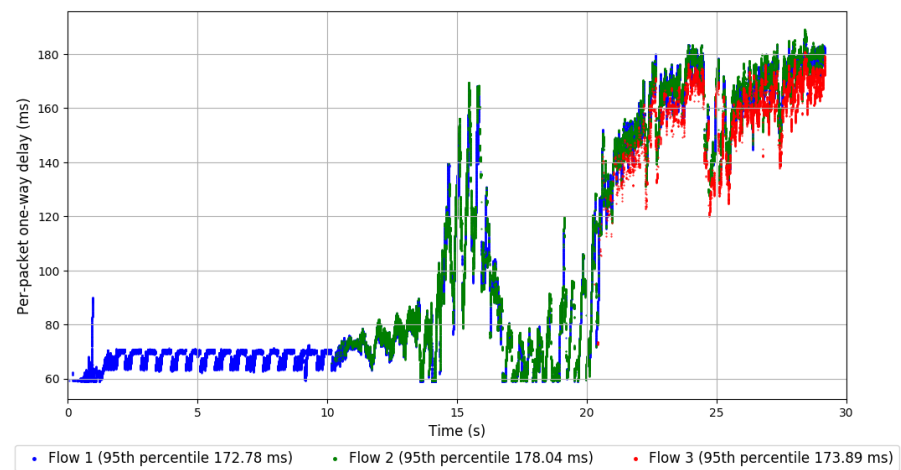
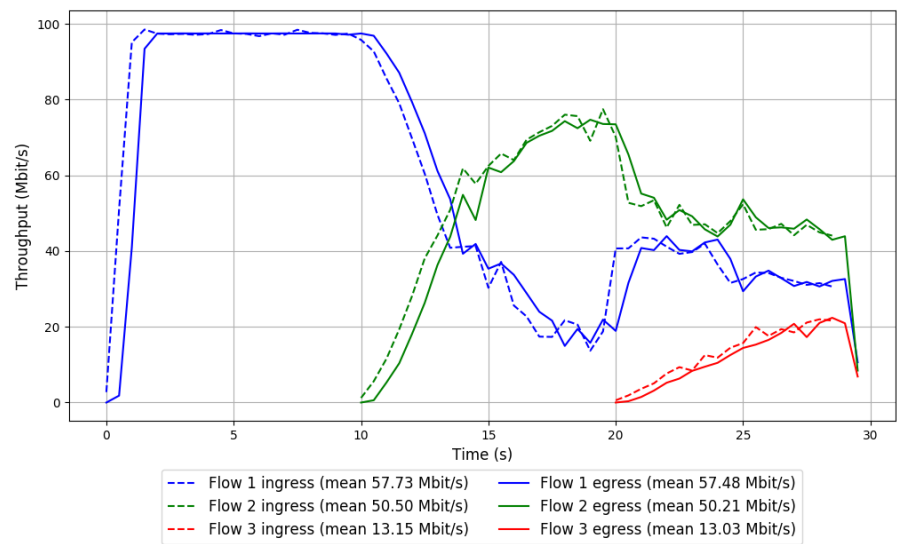


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-27 02:30:16
End at: 2019-03-27 02:30:46
Local clock offset: -2.938 ms
Remote clock offset: -7.743 ms

Below is generated by plot.py at 2019-03-27 03:24:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 175.331 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 57.48 Mbit/s
95th percentile per-packet one-way delay: 172.780 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 178.040 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 173.889 ms
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link

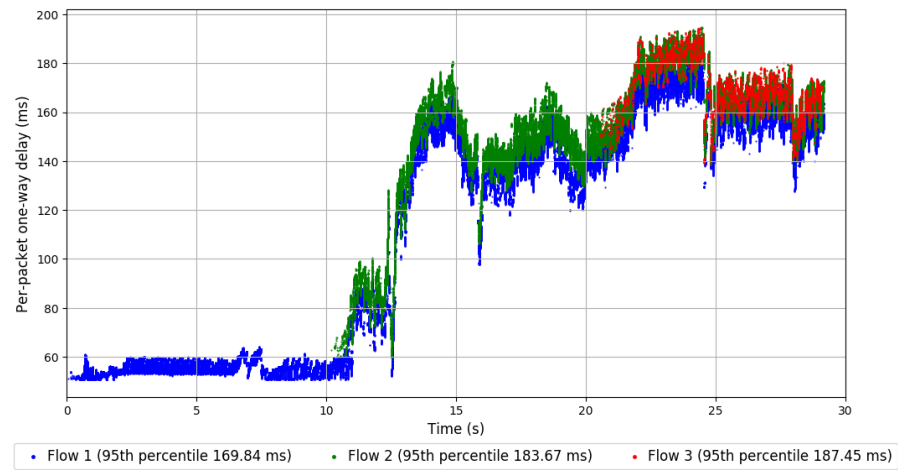
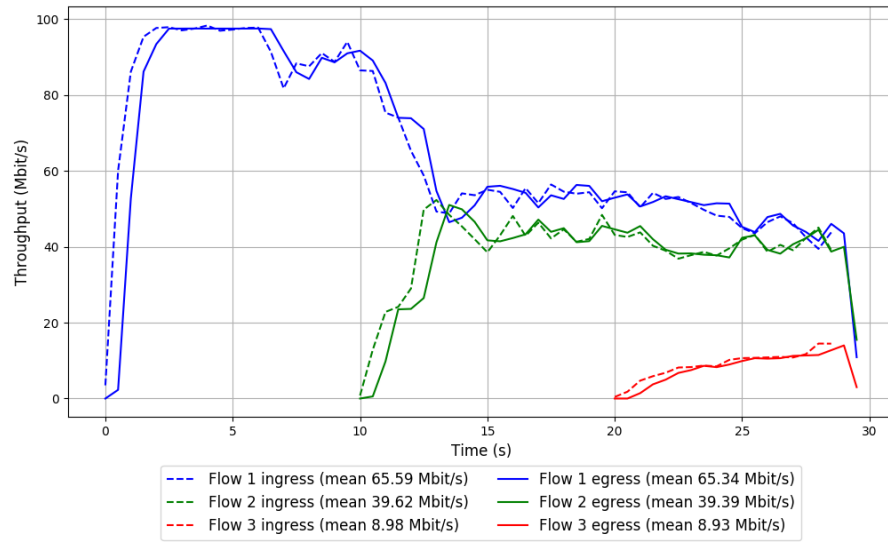


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-27 02:57:02
End at: 2019-03-27 02:57:32
Local clock offset: 0.2 ms
Remote clock offset: -7.032 ms

Below is generated by plot.py at 2019-03-27 03:24:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 176.798 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 65.34 Mbit/s
95th percentile per-packet one-way delay: 169.843 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.39 Mbit/s
95th percentile per-packet one-way delay: 183.669 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 187.451 ms
Loss rate: 1.52%

Run 5: Report of Indigo-MusesC5 — Data Link

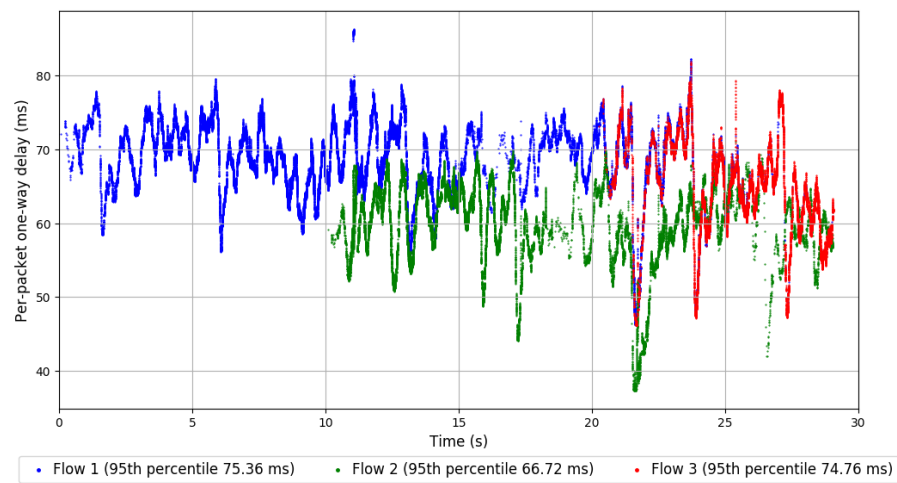
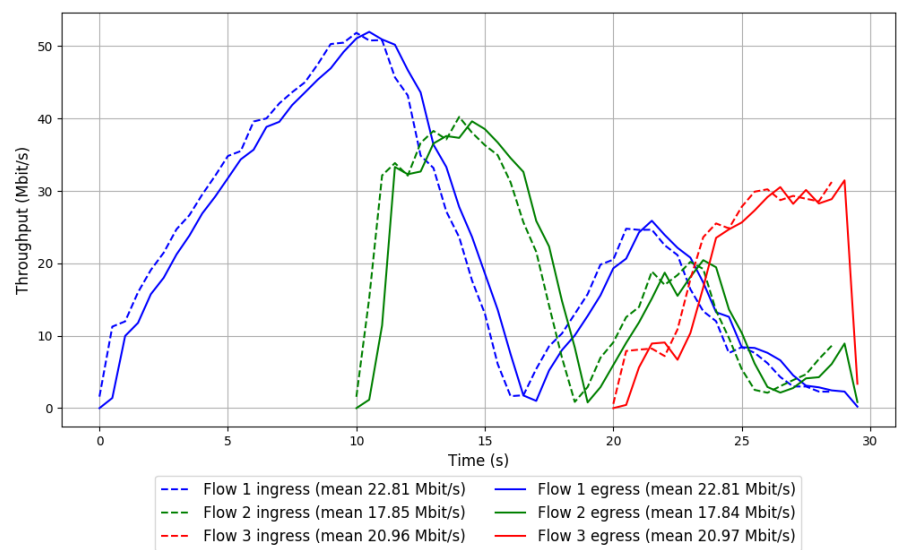


Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-27 01:20:16
End at: 2019-03-27 01:20:46
Local clock offset: 0.881 ms
Remote clock offset: -21.243 ms

Below is generated by plot.py at 2019-03-27 03:24:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 74.727 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 22.81 Mbit/s
95th percentile per-packet one-way delay: 75.362 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 66.724 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 20.97 Mbit/s
95th percentile per-packet one-way delay: 74.758 ms
Loss rate: 0.10%

Run 1: Report of Indigo-MusesD — Data Link

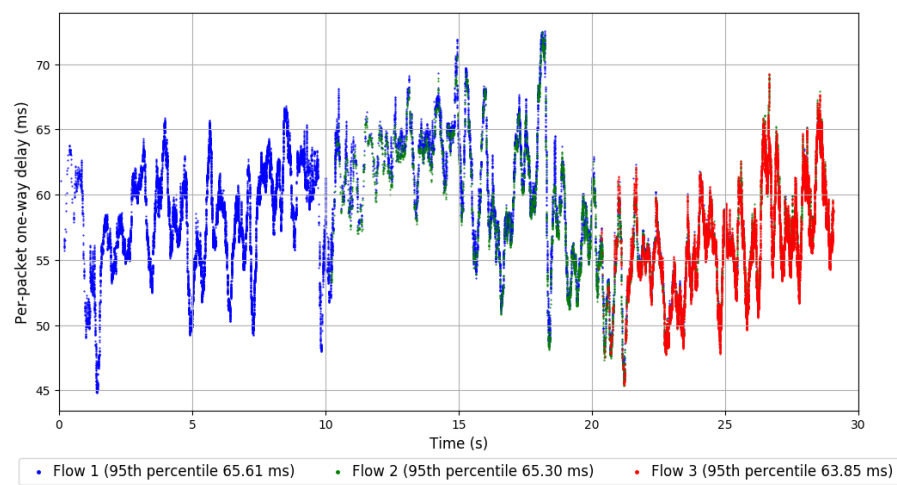
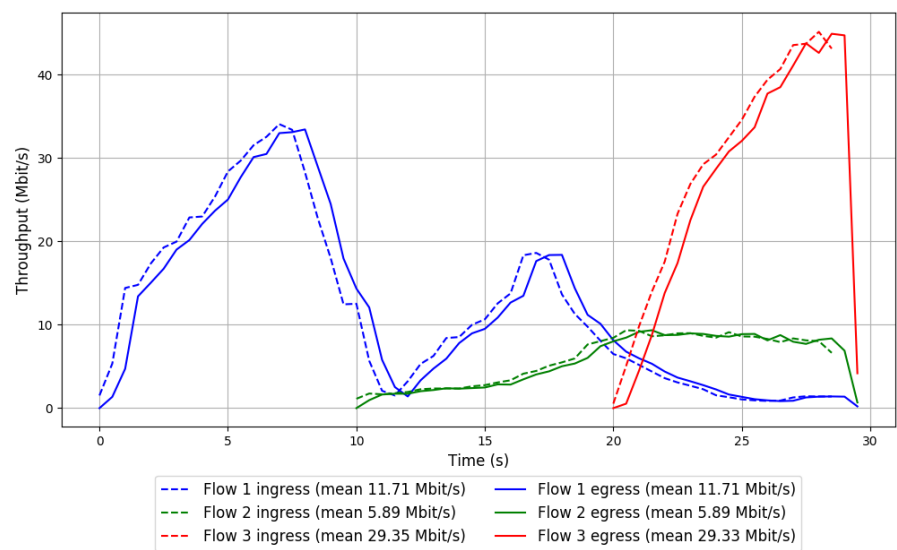


Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-27 01:47:06
End at: 2019-03-27 01:47:36
Local clock offset: 0.676 ms
Remote clock offset: -17.474 ms

Below is generated by plot.py at 2019-03-27 03:24:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 64.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 65.607 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 65.301 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 63.849 ms
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

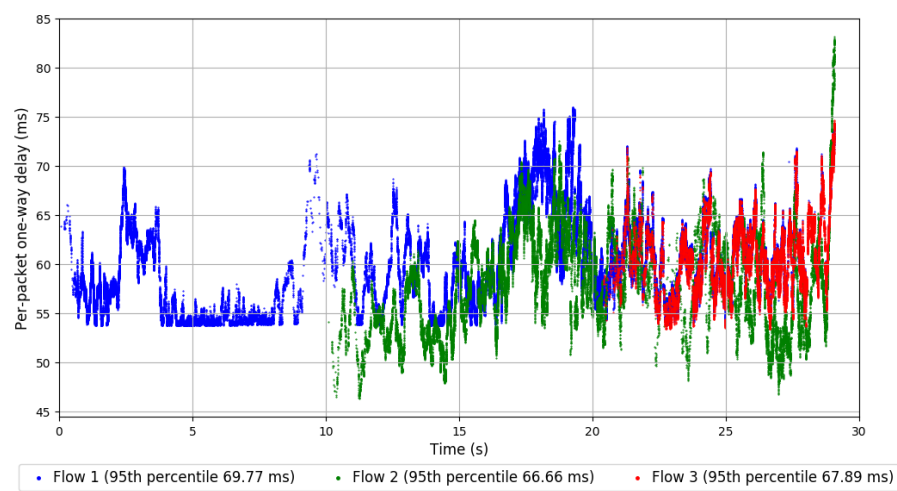
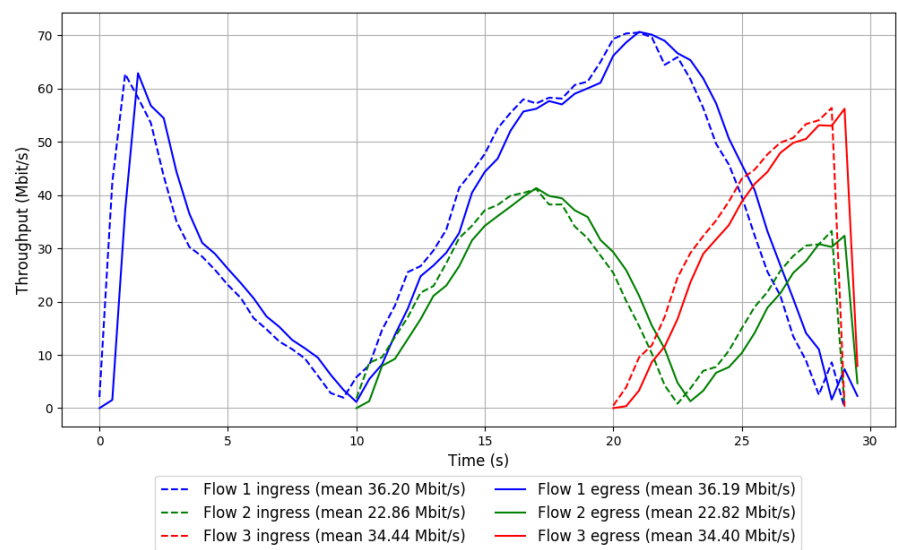


Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-27 02:13:49
End at: 2019-03-27 02:14:19
Local clock offset: -2.136 ms
Remote clock offset: -14.33 ms

Below is generated by plot.py at 2019-03-27 03:24:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 61.49 Mbit/s
95th percentile per-packet one-way delay: 68.933 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 36.19 Mbit/s
95th percentile per-packet one-way delay: 69.769 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.82 Mbit/s
95th percentile per-packet one-way delay: 66.655 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 34.40 Mbit/s
95th percentile per-packet one-way delay: 67.895 ms
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-27 02:40:37

End at: 2019-03-27 02:41:07

Local clock offset: -3.331 ms

Remote clock offset: -6.08 ms

Below is generated by plot.py at 2019-03-27 03:24:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.38 Mbit/s

95th percentile per-packet one-way delay: 72.310 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.77 Mbit/s

95th percentile per-packet one-way delay: 67.910 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.61 Mbit/s

95th percentile per-packet one-way delay: 74.163 ms

Loss rate: 0.00%

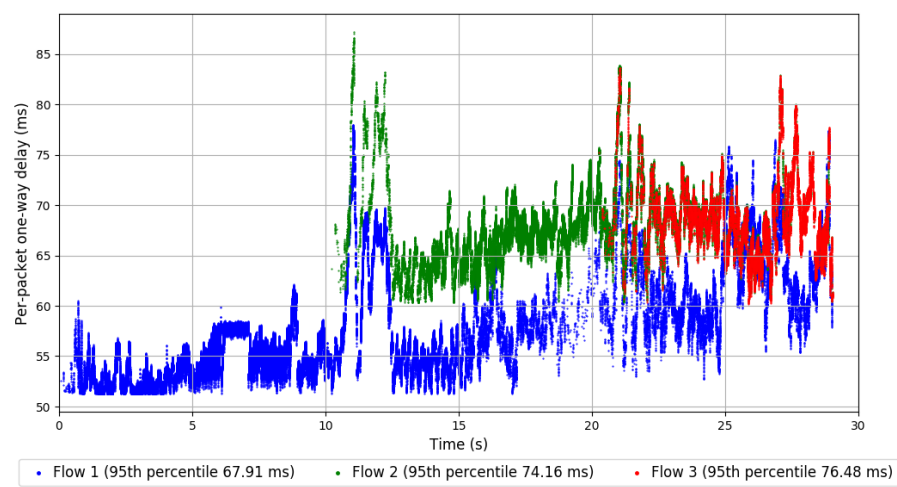
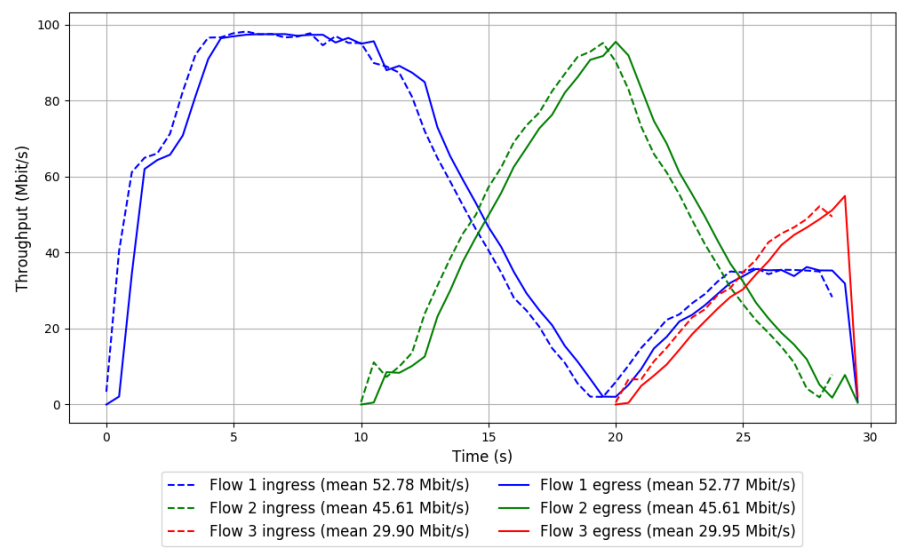
-- Flow 3:

Average throughput: 29.95 Mbit/s

95th percentile per-packet one-way delay: 76.479 ms

Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link

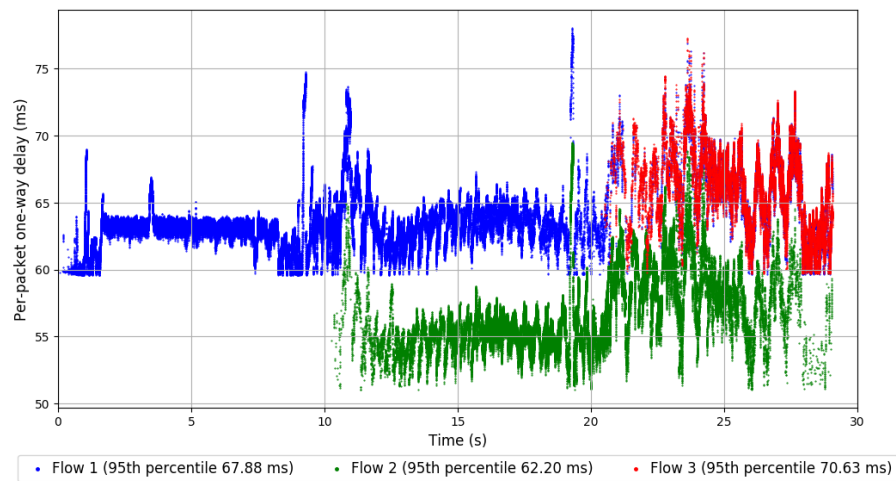
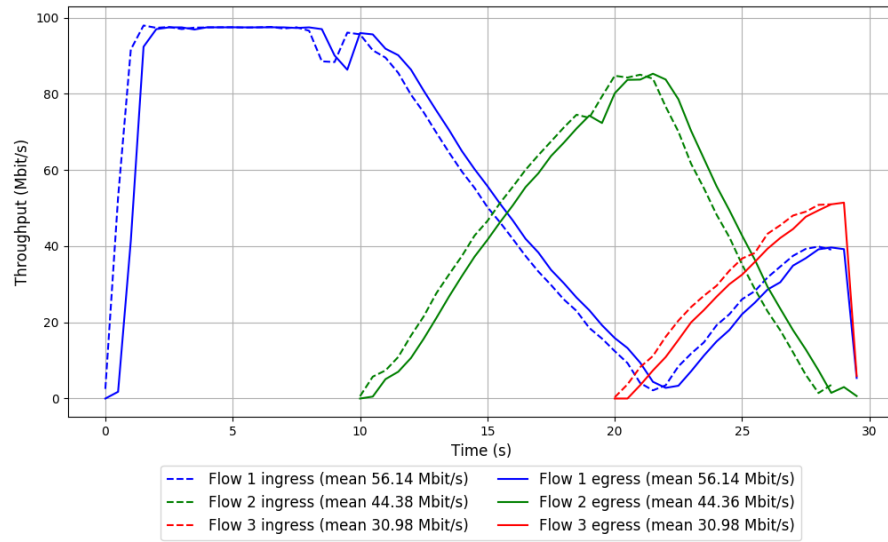


Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-27 03:07:29
End at: 2019-03-27 03:07:59
Local clock offset: 1.521 ms
Remote clock offset: -7.196 ms

Below is generated by plot.py at 2019-03-27 03:24:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 68.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.14 Mbit/s
95th percentile per-packet one-way delay: 67.877 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 44.36 Mbit/s
95th percentile per-packet one-way delay: 62.201 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 70.626 ms
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

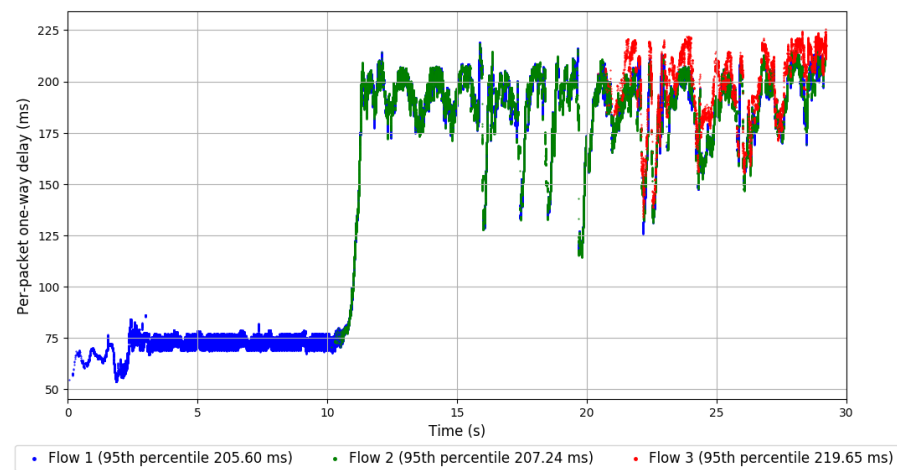
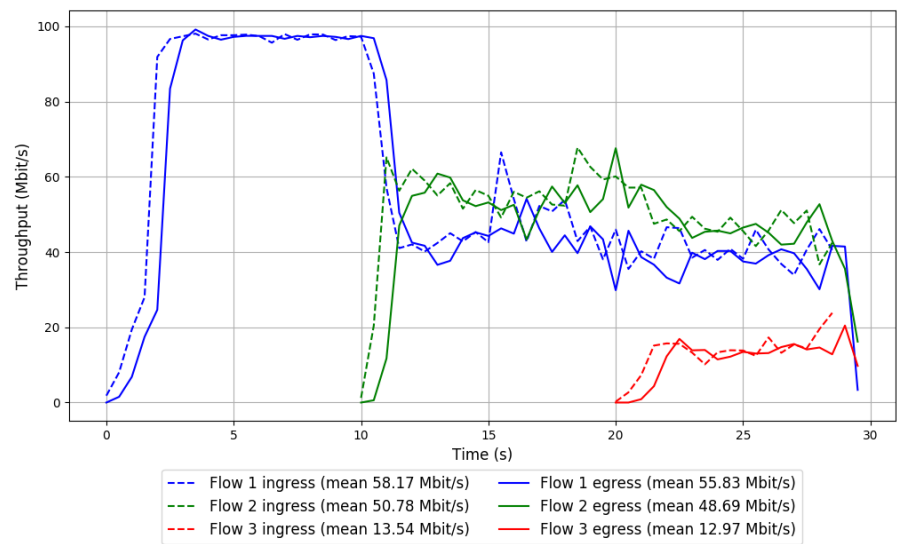


Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-27 01:13:46
End at: 2019-03-27 01:14:16
Local clock offset: 0.559 ms
Remote clock offset: -17.312 ms

Below is generated by plot.py at 2019-03-27 03:24:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 207.529 ms
Loss rate: 3.68%
-- Flow 1:
Average throughput: 55.83 Mbit/s
95th percentile per-packet one-way delay: 205.600 ms
Loss rate: 3.81%
-- Flow 2:
Average throughput: 48.69 Mbit/s
95th percentile per-packet one-way delay: 207.236 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 12.97 Mbit/s
95th percentile per-packet one-way delay: 219.649 ms
Loss rate: 4.07%

Run 1: Report of Indigo-MusesT — Data Link

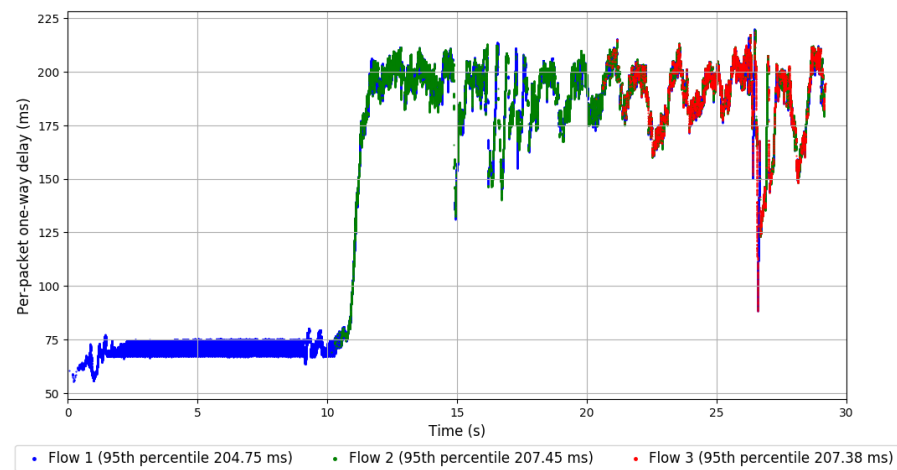
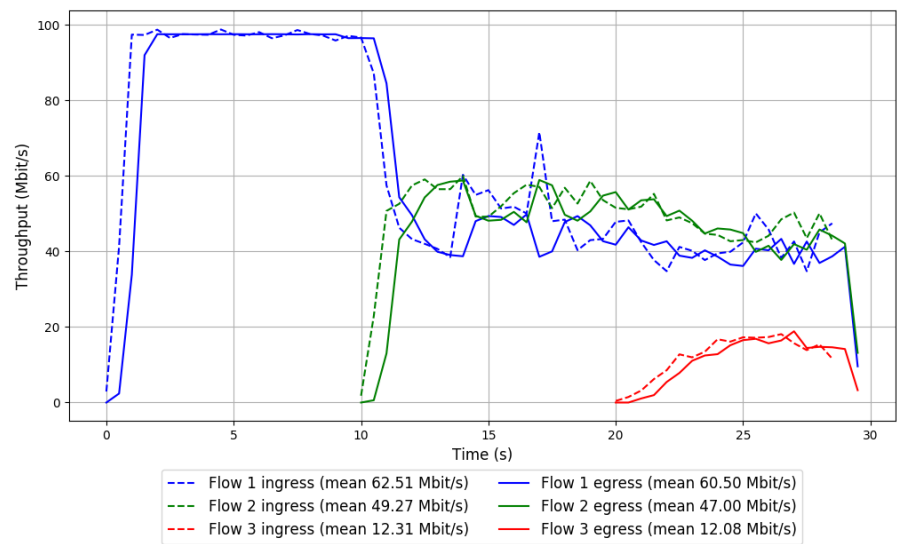


Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-27 01:40:39
End at: 2019-03-27 01:41:09
Local clock offset: 0.866 ms
Remote clock offset: -18.264 ms

Below is generated by plot.py at 2019-03-27 03:25:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 205.932 ms
Loss rate: 3.34%
-- Flow 1:
Average throughput: 60.50 Mbit/s
95th percentile per-packet one-way delay: 204.753 ms
Loss rate: 3.10%
-- Flow 2:
Average throughput: 47.00 Mbit/s
95th percentile per-packet one-way delay: 207.448 ms
Loss rate: 3.99%
-- Flow 3:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 207.378 ms
Loss rate: 1.83%

Run 2: Report of Indigo-MusesT — Data Link

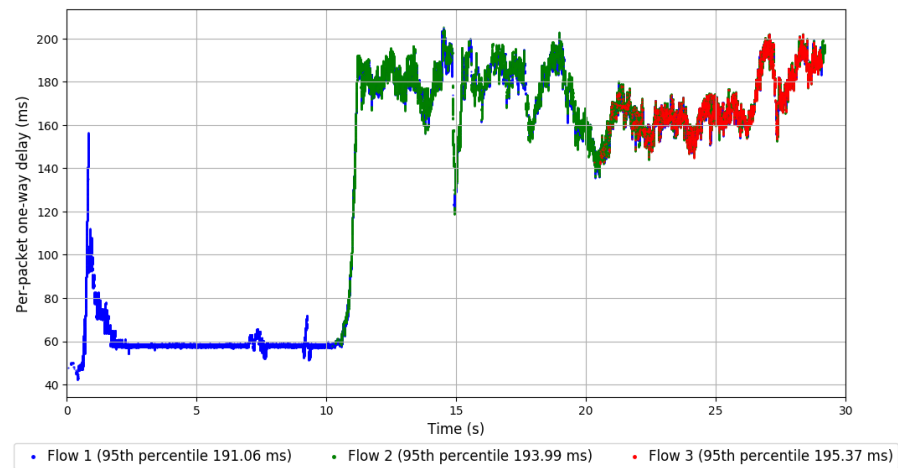
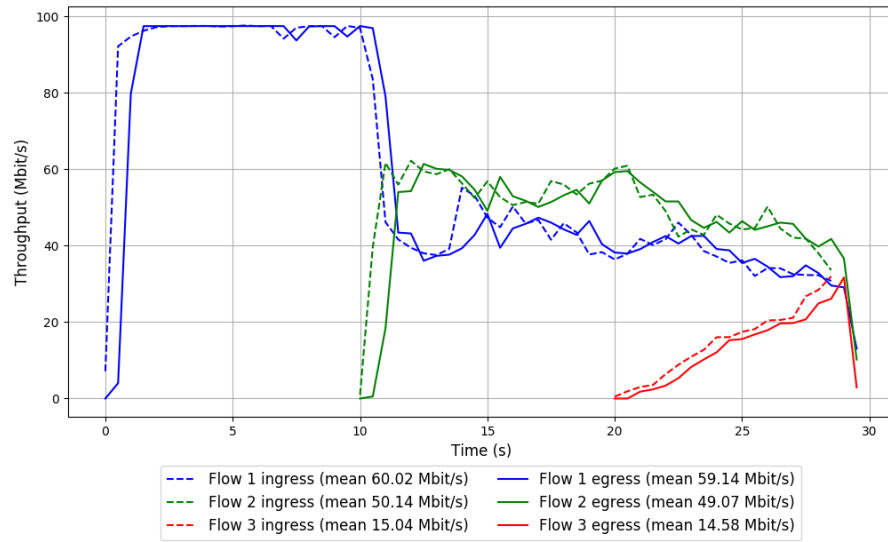


Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-27 02:07:21
End at: 2019-03-27 02:07:51
Local clock offset: -1.892 ms
Remote clock offset: -16.734 ms

Below is generated by plot.py at 2019-03-27 03:25:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.45 Mbit/s
95th percentile per-packet one-way delay: 192.841 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 191.057 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 193.990 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 195.365 ms
Loss rate: 3.85%

Run 3: Report of Indigo-MusesT — Data Link

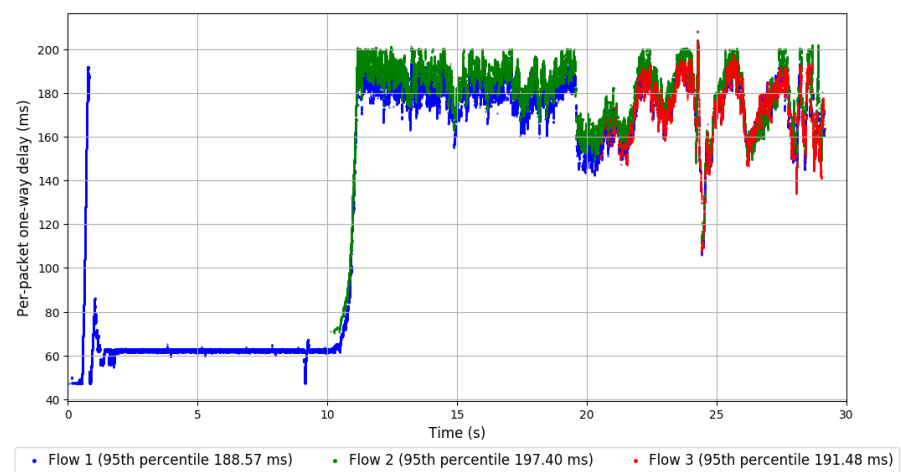
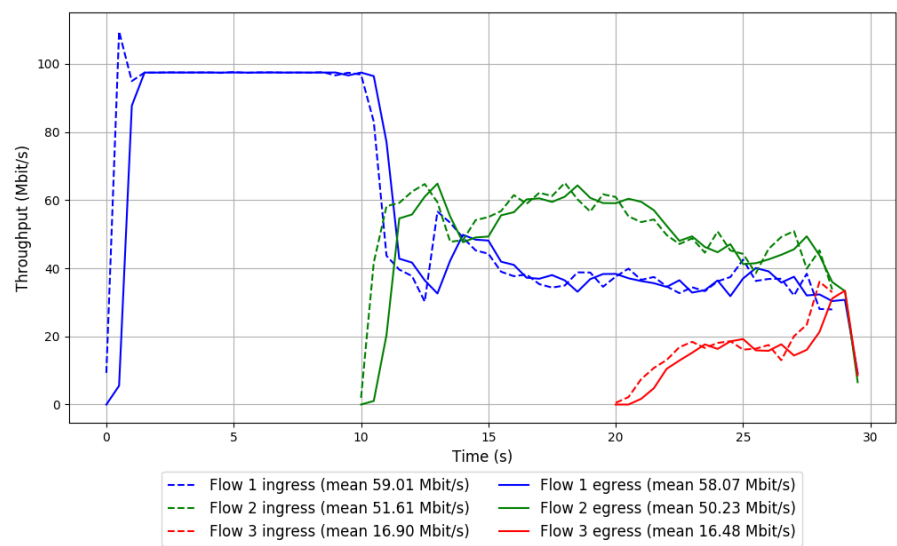


Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-27 02:34:08
End at: 2019-03-27 02:34:38
Local clock offset: -3.245 ms
Remote clock offset: -11.01 ms

Below is generated by plot.py at 2019-03-27 03:25:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.79 Mbit/s
95th percentile per-packet one-way delay: 193.866 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 188.568 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 197.399 ms
Loss rate: 2.59%
-- Flow 3:
Average throughput: 16.48 Mbit/s
95th percentile per-packet one-way delay: 191.477 ms
Loss rate: 2.32%

Run 4: Report of Indigo-MusesT — Data Link

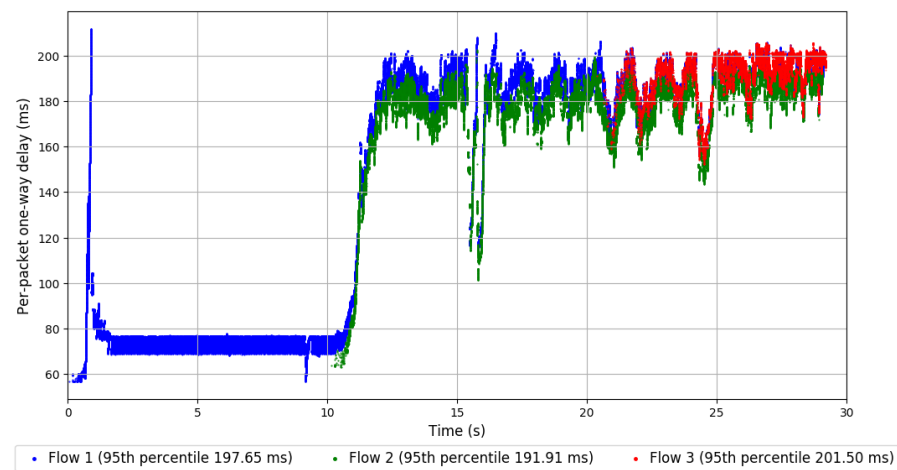
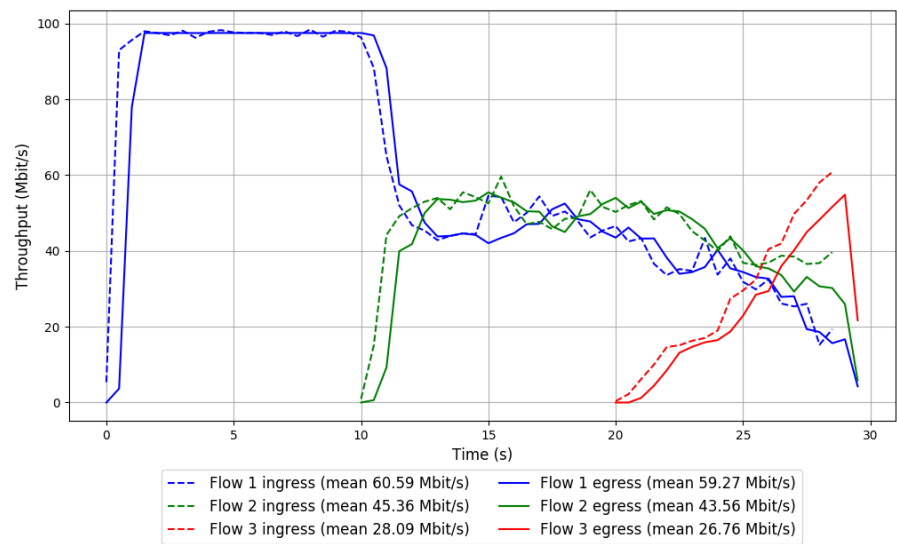


Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-27 03:00:55
End at: 2019-03-27 03:01:25
Local clock offset: 0.834 ms
Remote clock offset: -10.459 ms

Below is generated by plot.py at 2019-03-27 03:25:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 198.305 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 59.27 Mbit/s
95th percentile per-packet one-way delay: 197.654 ms
Loss rate: 1.71%
-- Flow 2:
Average throughput: 43.56 Mbit/s
95th percentile per-packet one-way delay: 191.905 ms
Loss rate: 3.86%
-- Flow 3:
Average throughput: 26.76 Mbit/s
95th percentile per-packet one-way delay: 201.496 ms
Loss rate: 4.70%

Run 5: Report of Indigo-MusesT — Data Link

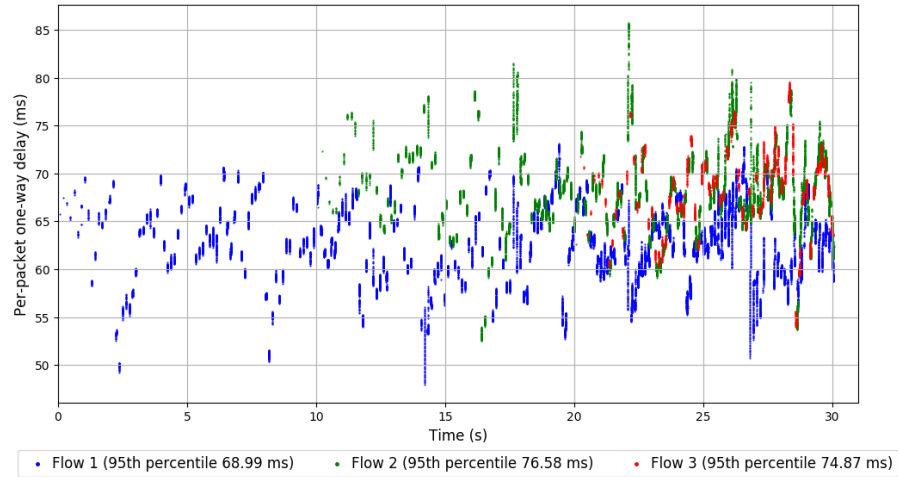
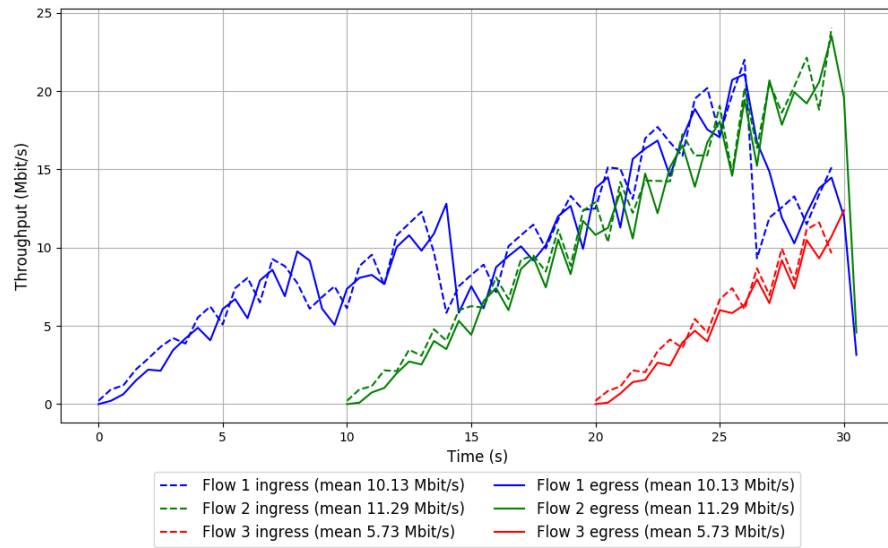


```
Run 1: Statistics of LEDBAT

Start at: 2019-03-27 01:24:05
End at: 2019-03-27 01:24:35
Local clock offset: 0.765 ms
Remote clock offset: -19.848 ms

# Below is generated by plot.py at 2019-03-27 03:25:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.54 Mbit/s
95th percentile per-packet one-way delay: 73.139 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.13 Mbit/s
95th percentile per-packet one-way delay: 68.987 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 11.29 Mbit/s
95th percentile per-packet one-way delay: 76.584 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 74.868 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

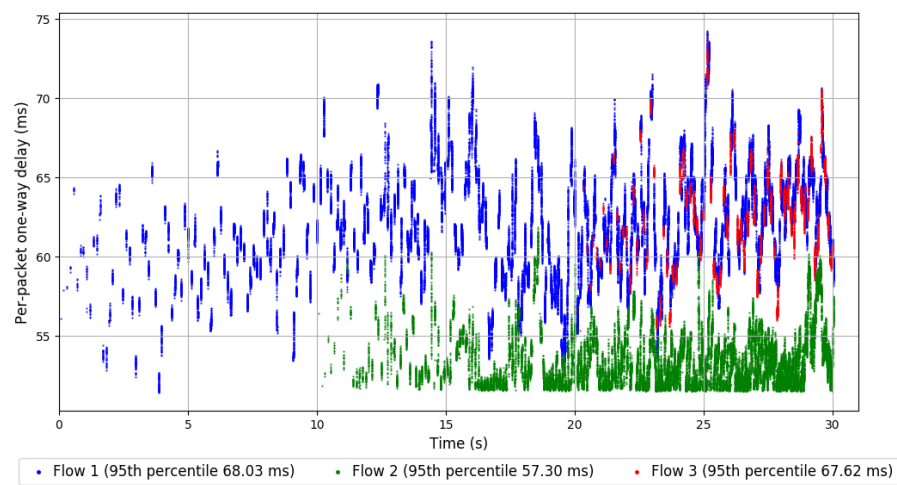
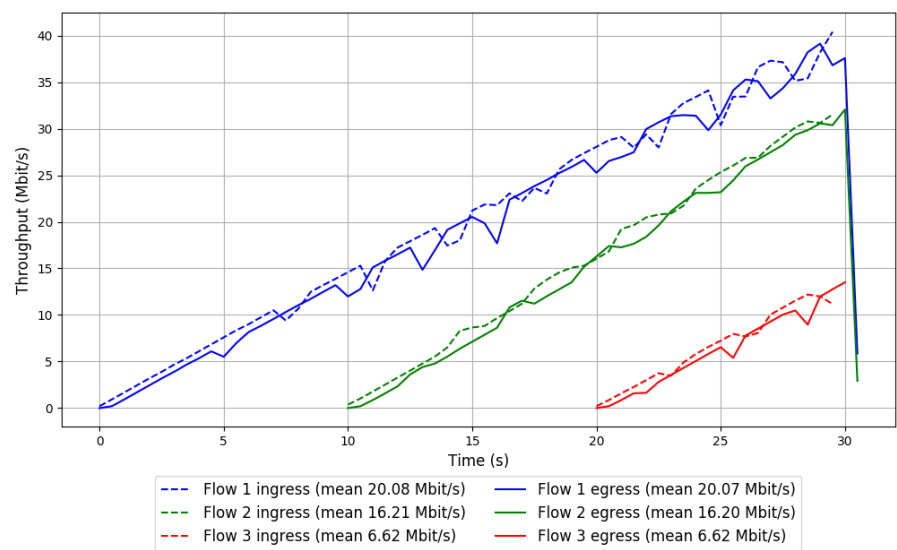


Run 2: Statistics of LEDBAT

Start at: 2019-03-27 01:50:52
End at: 2019-03-27 01:51:22
Local clock offset: -0.22 ms
Remote clock offset: -16.154 ms

Below is generated by plot.py at 2019-03-27 03:25:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.05 Mbit/s
95th percentile per-packet one-way delay: 67.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.07 Mbit/s
95th percentile per-packet one-way delay: 68.034 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.20 Mbit/s
95th percentile per-packet one-way delay: 57.295 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 67.621 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

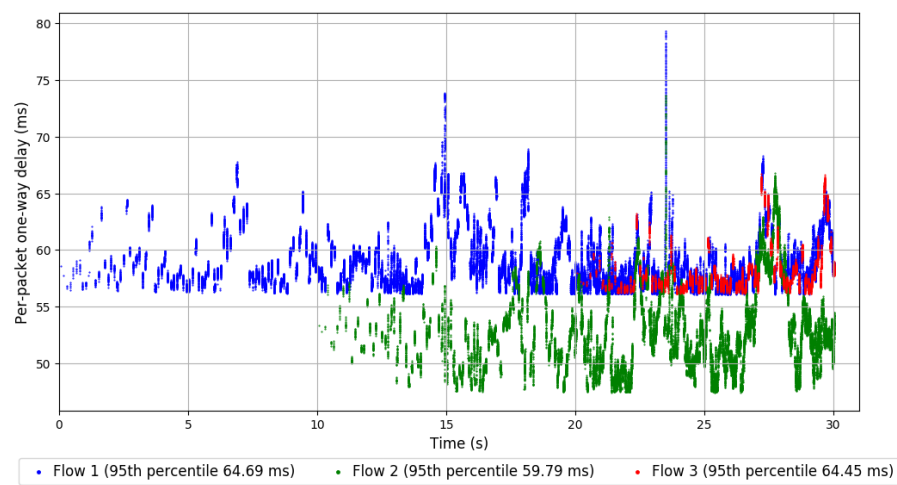
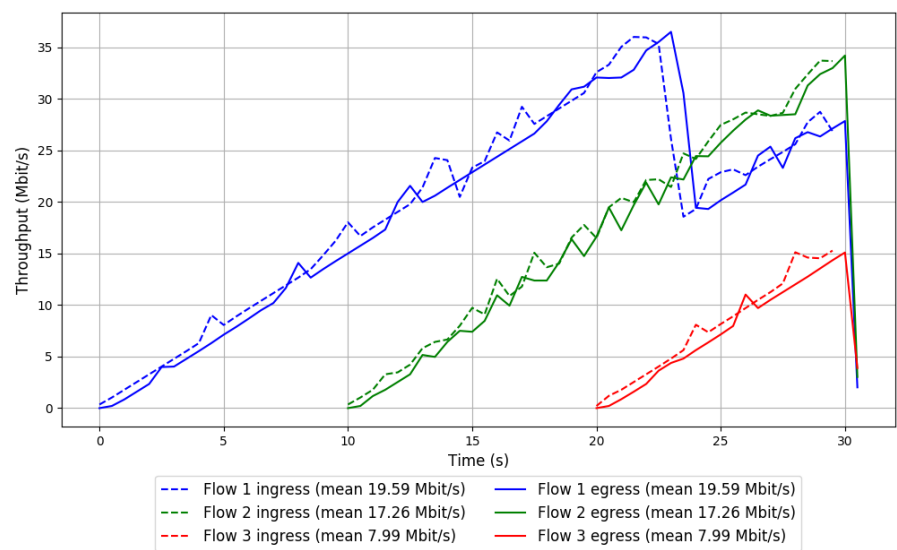


Run 3: Statistics of LEDBAT

Start at: 2019-03-27 02:17:37
End at: 2019-03-27 02:18:07
Local clock offset: -2.31 ms
Remote clock offset: -11.303 ms

Below is generated by plot.py at 2019-03-27 03:25:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.75 Mbit/s
95th percentile per-packet one-way delay: 63.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 19.59 Mbit/s
95th percentile per-packet one-way delay: 64.687 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.26 Mbit/s
95th percentile per-packet one-way delay: 59.792 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 64.452 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

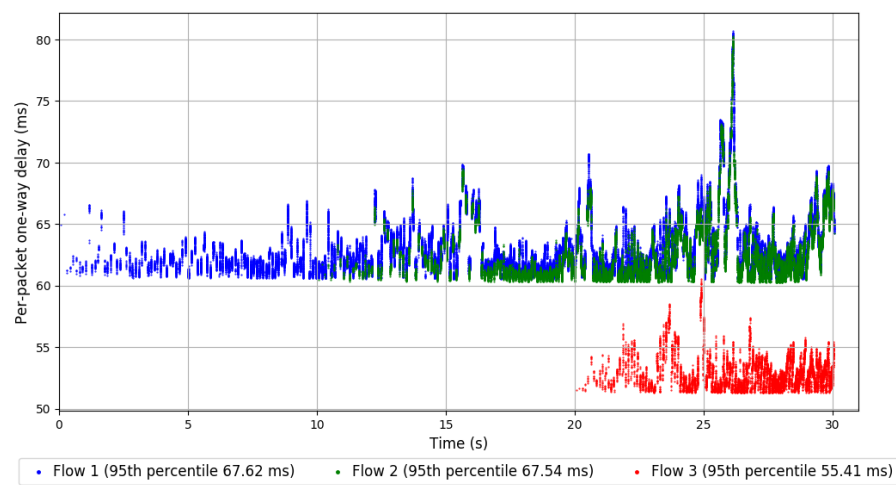
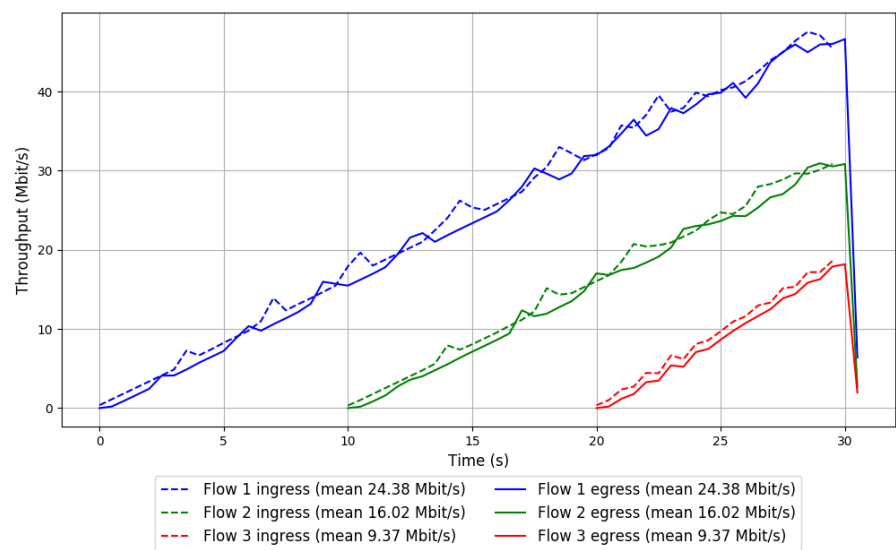


Run 4: Statistics of LEDBAT

Start at: 2019-03-27 02:44:26
End at: 2019-03-27 02:44:56
Local clock offset: -3.599 ms
Remote clock offset: -5.943 ms

Below is generated by plot.py at 2019-03-27 03:25:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.18 Mbit/s
95th percentile per-packet one-way delay: 67.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 67.621 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.02 Mbit/s
95th percentile per-packet one-way delay: 67.544 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 55.410 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

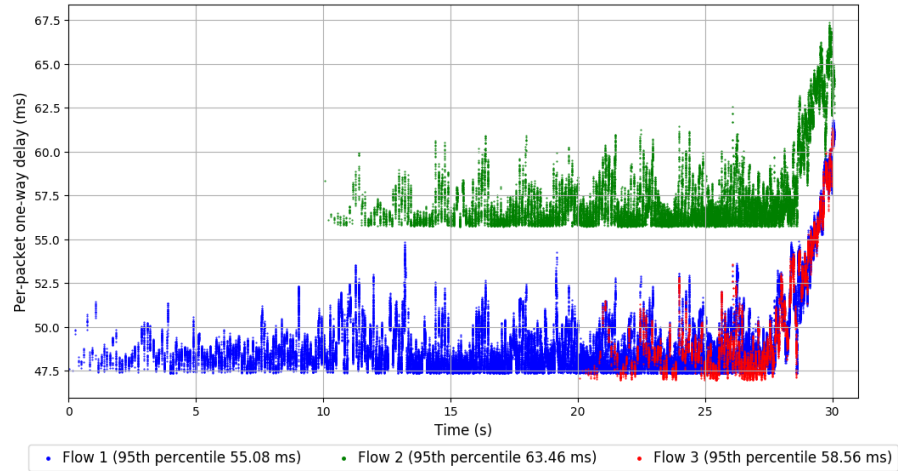
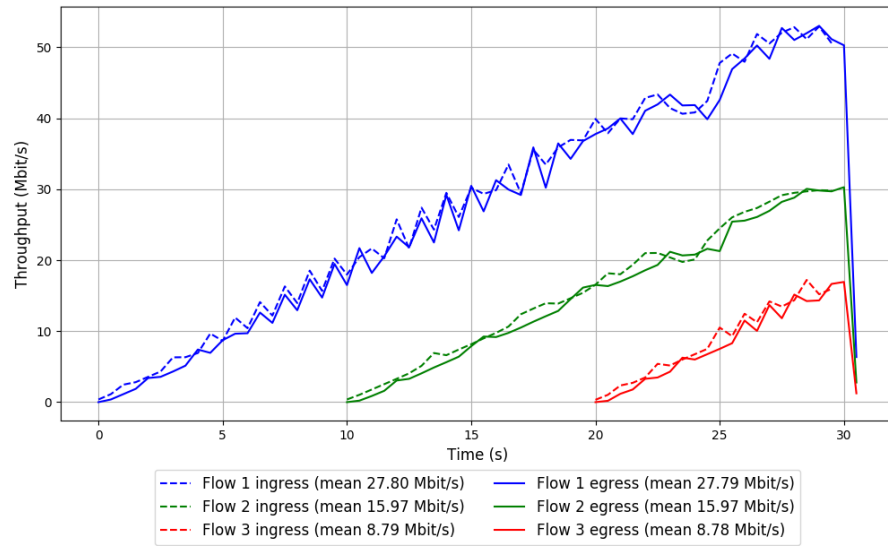


Run 5: Statistics of LEDBAT

Start at: 2019-03-27 03:11:17
End at: 2019-03-27 03:11:47
Local clock offset: 1.913 ms
Remote clock offset: -10.702 ms

Below is generated by plot.py at 2019-03-27 03:25:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.33 Mbit/s
95th percentile per-packet one-way delay: 59.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 27.79 Mbit/s
95th percentile per-packet one-way delay: 55.084 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 63.460 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 58.565 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

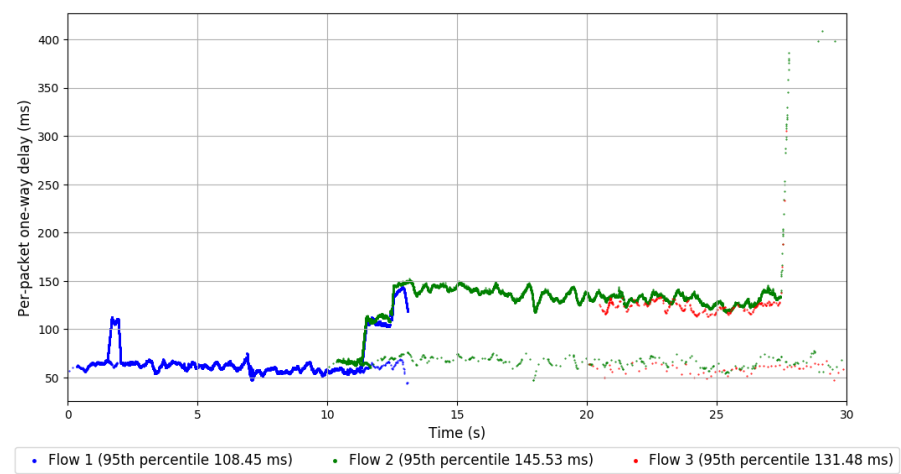
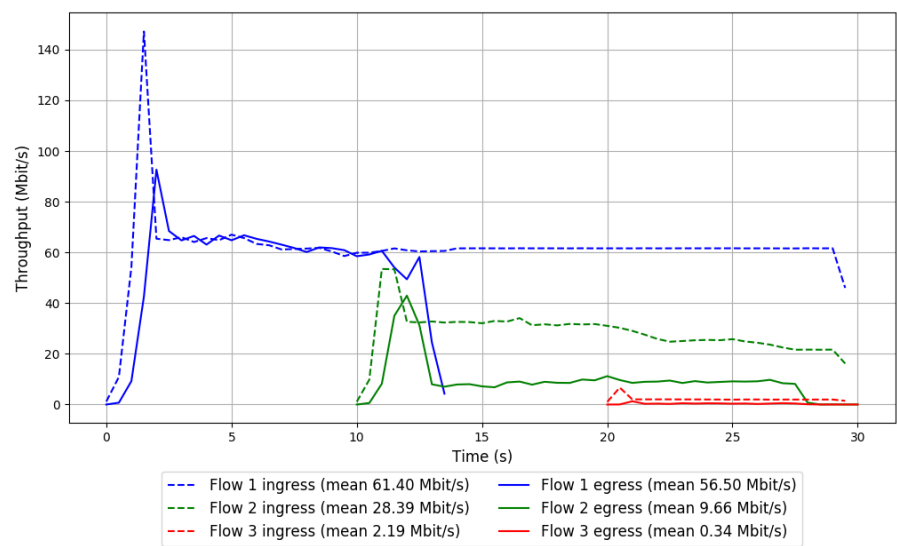


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-03-27 01:11:12
End at: 2019-03-27 01:11:42
Local clock offset: 0.529 ms
Remote clock offset: -20.676 ms

# Below is generated by plot.py at 2019-03-27 03:25:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.24 Mbit/s
95th percentile per-packet one-way delay: 138.268 ms
Loss rate: 61.53%
-- Flow 1:
Average throughput: 56.50 Mbit/s
95th percentile per-packet one-way delay: 108.454 ms
Loss rate: 59.82%
-- Flow 2:
Average throughput: 9.66 Mbit/s
95th percentile per-packet one-way delay: 145.530 ms
Loss rate: 66.22%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 131.478 ms
Loss rate: 84.76%
```

Run 1: Report of PCC-Allegro — Data Link

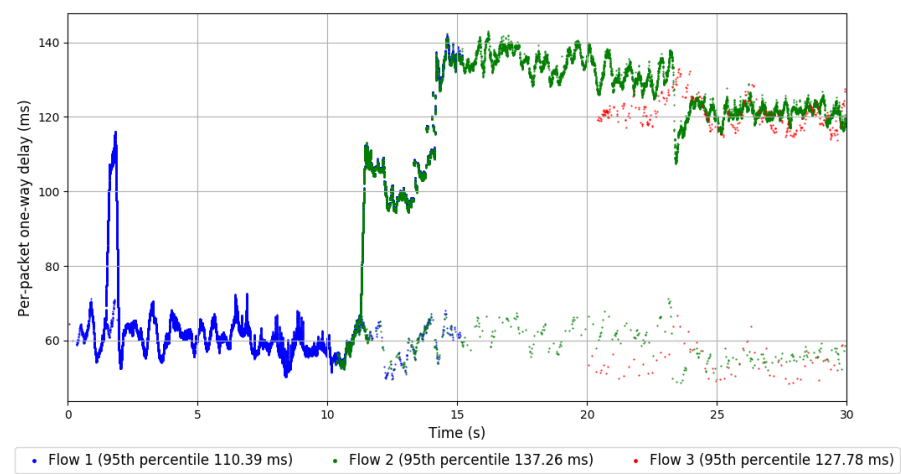
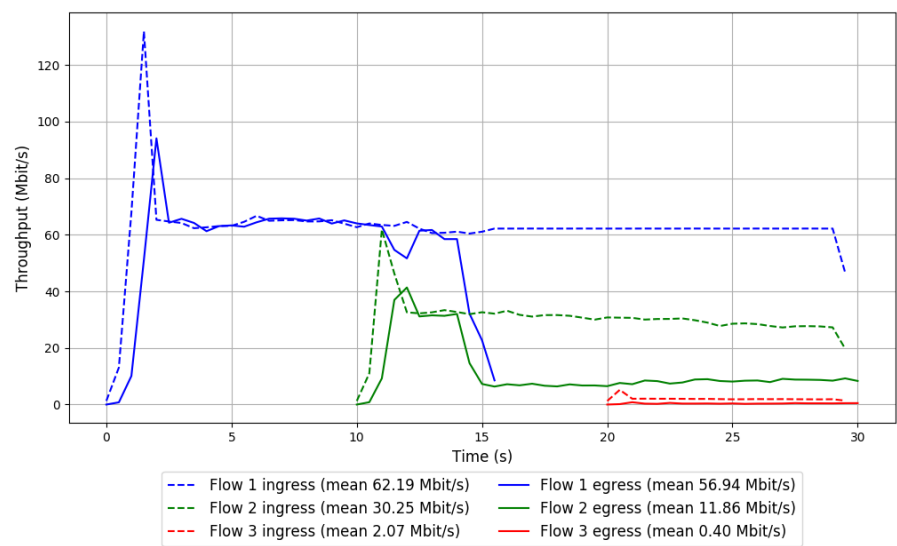


Run 2: Statistics of PCC-Allegro

Start at: 2019-03-27 01:38:07
End at: 2019-03-27 01:38:37
Local clock offset: 0.838 ms
Remote clock offset: -19.171 ms

Below is generated by plot.py at 2019-03-27 03:25:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 133.158 ms
Loss rate: 55.60%
-- Flow 1:
Average throughput: 56.94 Mbit/s
95th percentile per-packet one-way delay: 110.387 ms
Loss rate: 53.65%
-- Flow 2:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 137.265 ms
Loss rate: 60.77%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 127.777 ms
Loss rate: 80.74%

Run 2: Report of PCC-Allegro — Data Link

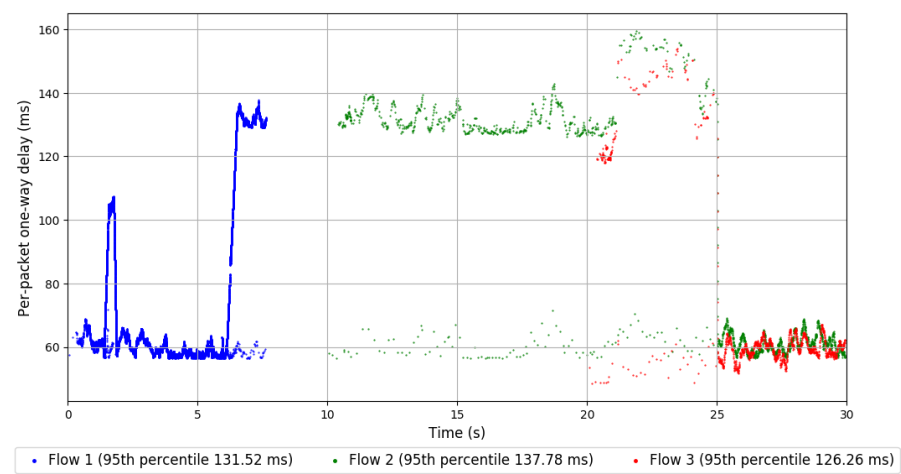
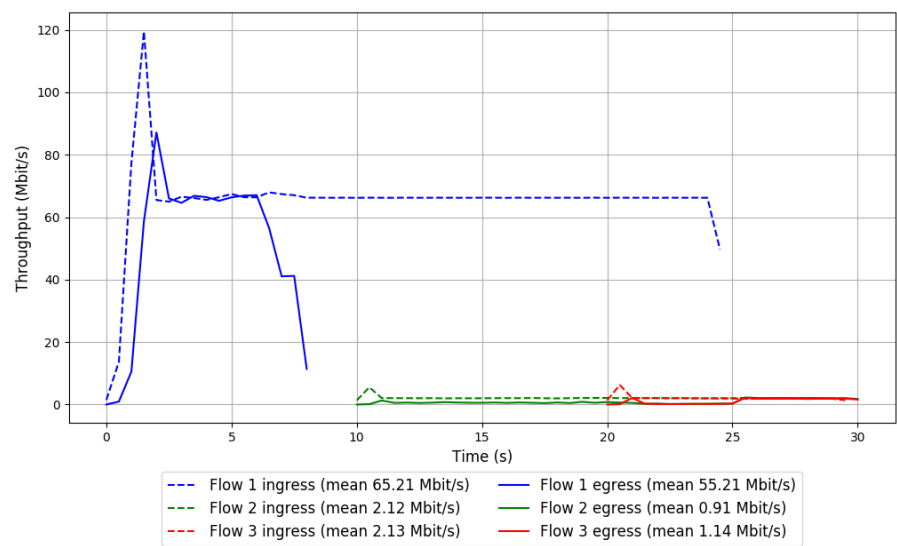


Run 3: Statistics of PCC-Allegro

Start at: 2019-03-27 02:04:48
End at: 2019-03-27 02:05:18
Local clock offset: -1.605 ms
Remote clock offset: -10.989 ms

Below is generated by plot.py at 2019-03-27 03:25:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.99 Mbit/s
95th percentile per-packet one-way delay: 131.761 ms
Loss rate: 73.43%
-- Flow 1:
Average throughput: 55.21 Mbit/s
95th percentile per-packet one-way delay: 131.521 ms
Loss rate: 74.21%
-- Flow 2:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 137.785 ms
Loss rate: 56.94%
-- Flow 3:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 126.264 ms
Loss rate: 46.41%

Run 3: Report of PCC-Allegro — Data Link

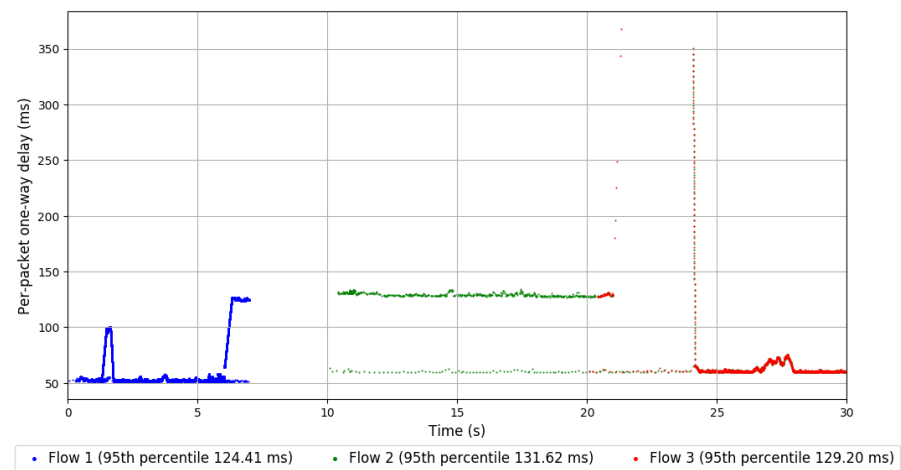
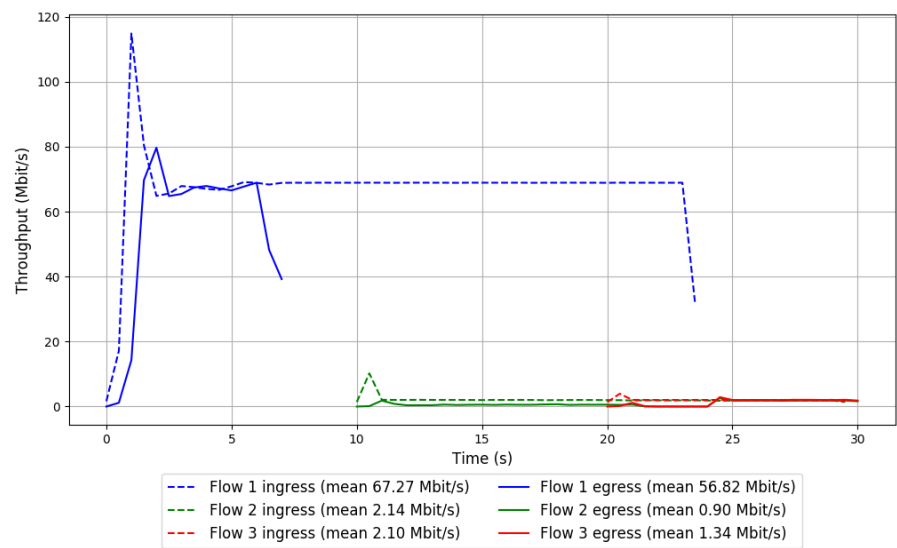


Run 4: Statistics of PCC-Allegro

Start at: 2019-03-27 02:31:33
End at: 2019-03-27 02:32:03
Local clock offset: -3.136 ms
Remote clock offset: -6.622 ms

Below is generated by plot.py at 2019-03-27 03:25:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.23 Mbit/s
95th percentile per-packet one-way delay: 124.731 ms
Loss rate: 74.38%
-- Flow 1:
Average throughput: 56.82 Mbit/s
95th percentile per-packet one-way delay: 124.405 ms
Loss rate: 75.32%
-- Flow 2:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 131.618 ms
Loss rate: 57.83%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 129.200 ms
Loss rate: 35.99%

Run 4: Report of PCC-Allegro — Data Link

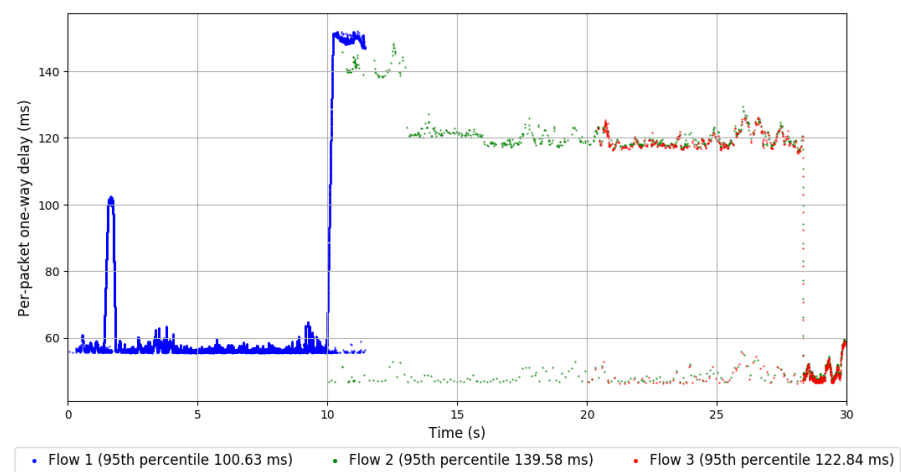
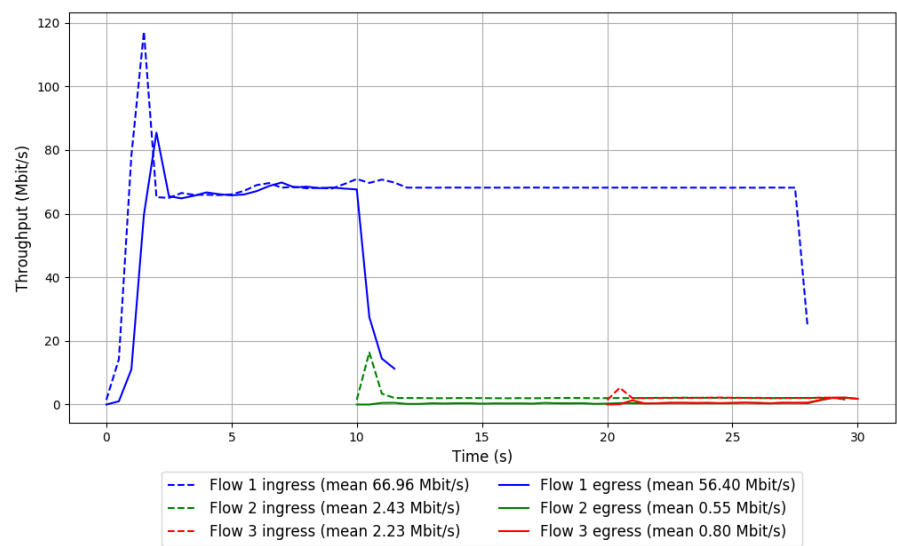


Run 5: Statistics of PCC-Allegro

Start at: 2019-03-27 02:58:20
End at: 2019-03-27 02:58:50
Local clock offset: 0.486 ms
Remote clock offset: -11.24 ms

Below is generated by plot.py at 2019-03-27 03:26:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 22.13 Mbit/s
95th percentile per-packet one-way delay: 101.850 ms
Loss rate: 66.21%
-- Flow 1:
Average throughput: 56.40 Mbit/s
95th percentile per-packet one-way delay: 100.632 ms
Loss rate: 65.95%
-- Flow 2:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 139.576 ms
Loss rate: 77.34%
-- Flow 3:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 122.837 ms
Loss rate: 64.06%

Run 5: Report of PCC-Allegro — Data Link

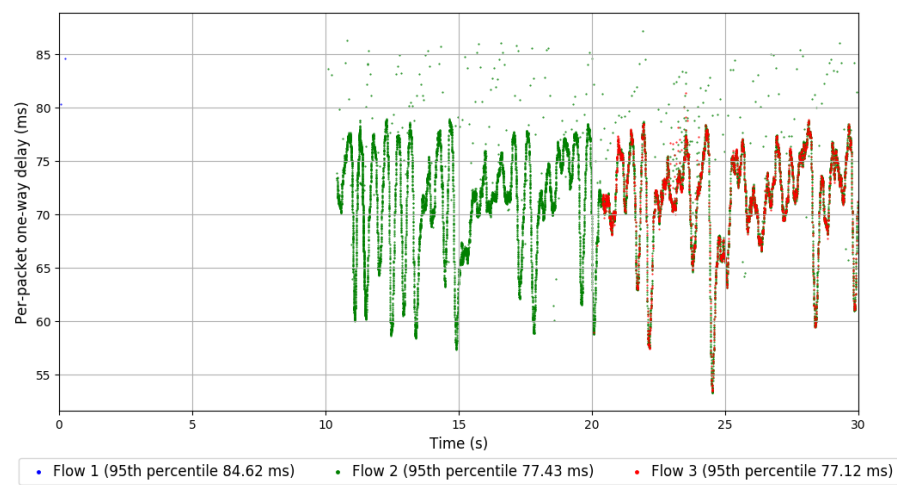
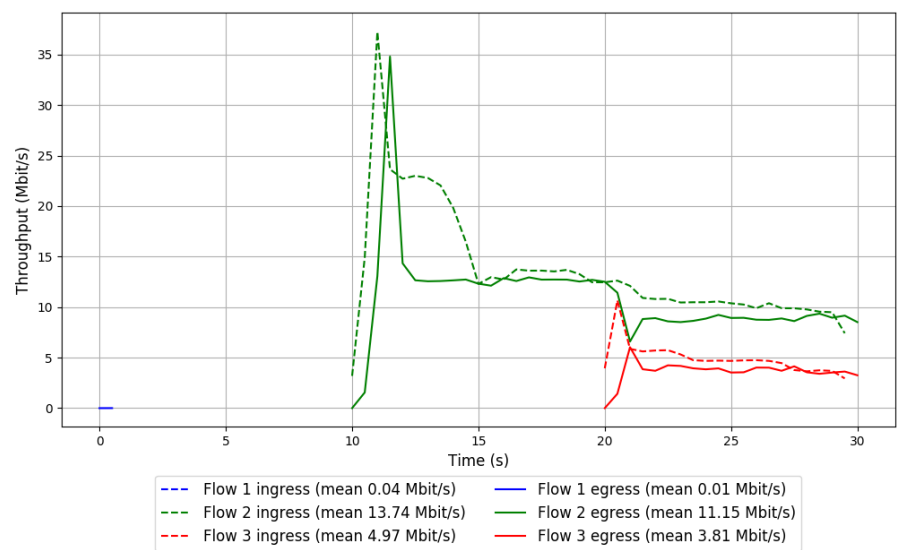



```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-27 01:07:19
End at: 2019-03-27 01:07:49
Local clock offset: 0.606 ms
Remote clock offset: -11.505 ms

# Below is generated by plot.py at 2019-03-27 03:26:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.68 Mbit/s
95th percentile per-packet one-way delay: 77.399 ms
Loss rate: 19.52%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 84.621 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.15 Mbit/s
95th percentile per-packet one-way delay: 77.427 ms
Loss rate: 18.87%
-- Flow 3:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 77.124 ms
Loss rate: 23.08%
```

Run 1: Report of PCC-Expr — Data Link

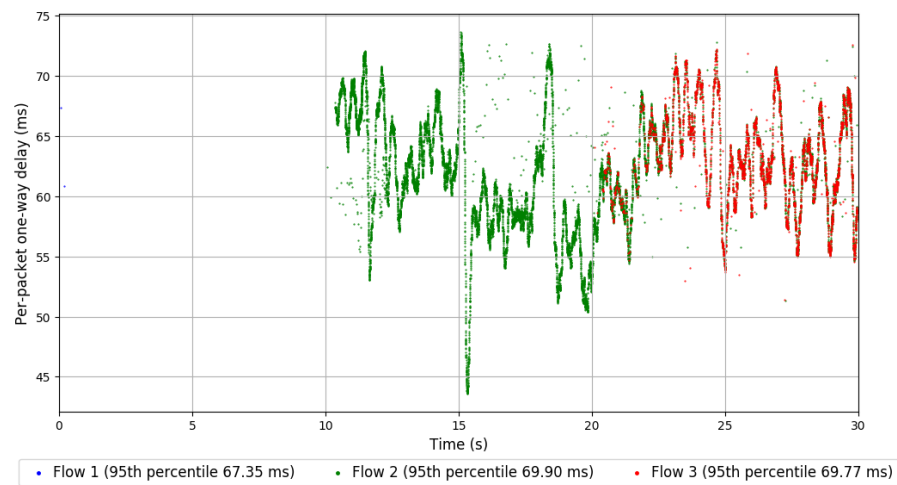
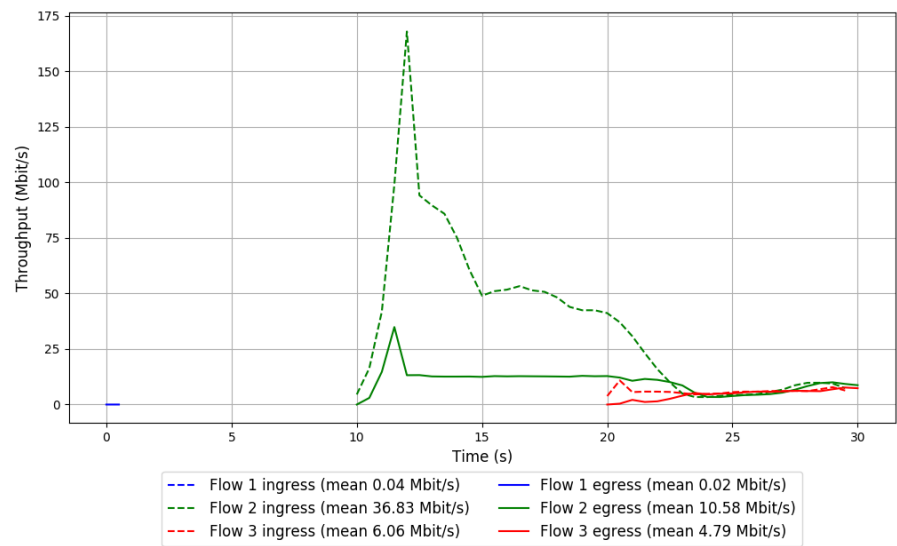


Run 2: Statistics of PCC-Expr

Start at: 2019-03-27 01:34:16
End at: 2019-03-27 01:34:46
Local clock offset: 0.81 ms
Remote clock offset: -18.174 ms

Below is generated by plot.py at 2019-03-27 03:26:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.62 Mbit/s
95th percentile per-packet one-way delay: 69.877 ms
Loss rate: 67.47%
-- Flow 1:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 67.350 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.58 Mbit/s
95th percentile per-packet one-way delay: 69.899 ms
Loss rate: 71.27%
-- Flow 3:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 69.770 ms
Loss rate: 21.02%

Run 2: Report of PCC-Expr — Data Link

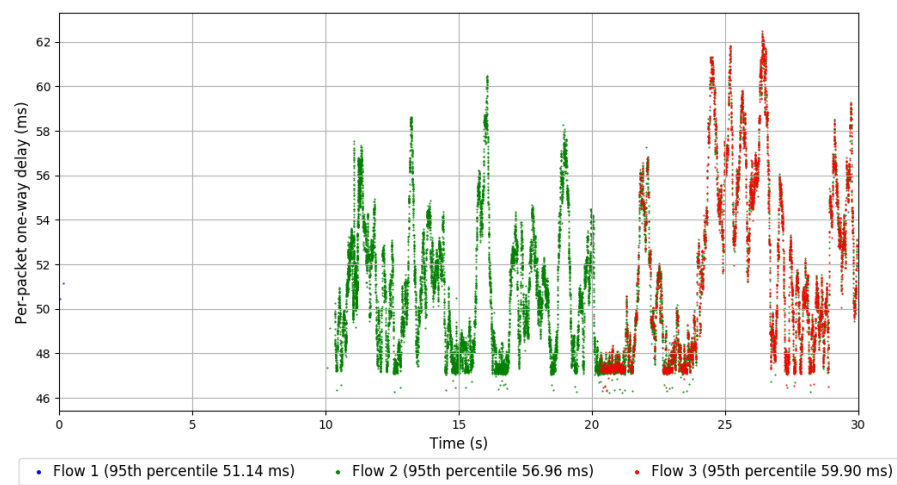
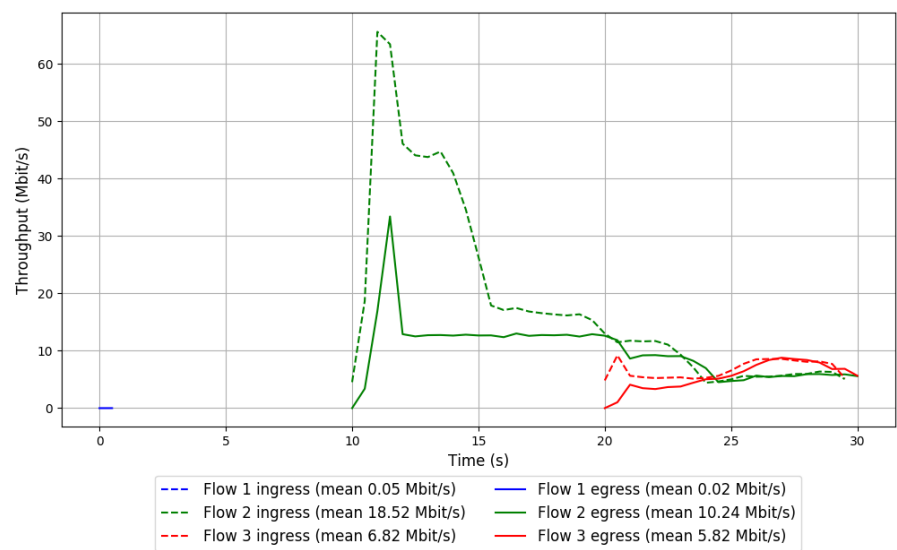


Run 3: Statistics of PCC-Expr

Start at: 2019-03-27 02:00:58
End at: 2019-03-27 02:01:28
Local clock offset: -1.509 ms
Remote clock offset: -12.736 ms

Below is generated by plot.py at 2019-03-27 03:26:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 57.951 ms
Loss rate: 40.00%
-- Flow 1:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 51.139 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.24 Mbit/s
95th percentile per-packet one-way delay: 56.958 ms
Loss rate: 44.66%
-- Flow 3:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 59.904 ms
Loss rate: 14.52%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-03-27 02:27:44

End at: 2019-03-27 02:28:14

Local clock offset: -2.704 ms

Remote clock offset: -7.61 ms

Below is generated by plot.py at 2019-03-27 03:26:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 8.72 Mbit/s

95th percentile per-packet one-way delay: 62.825 ms

Loss rate: 38.90%

-- Flow 1:

Average throughput: 0.02 Mbit/s

95th percentile per-packet one-way delay: 56.968 ms

Loss rate: 85.71%

-- Flow 2:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 62.570 ms

Loss rate: 39.34%

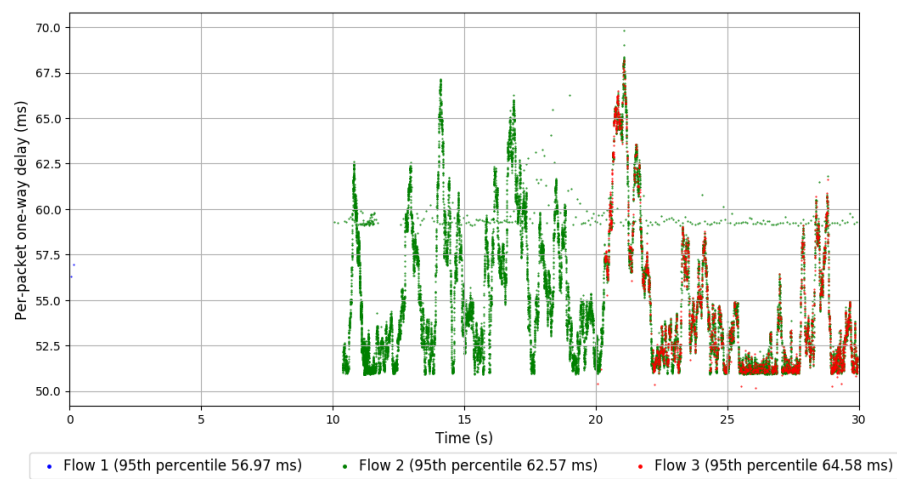
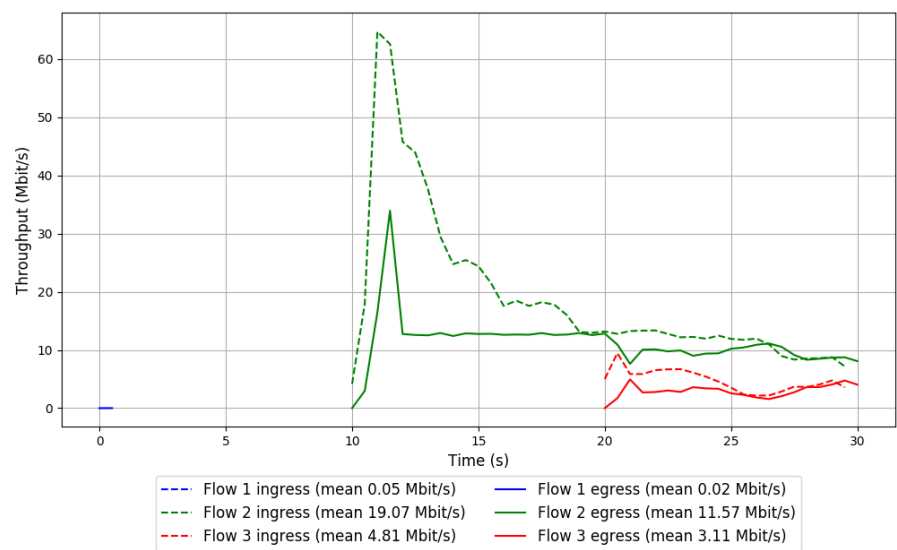
-- Flow 3:

Average throughput: 3.11 Mbit/s

95th percentile per-packet one-way delay: 64.585 ms

Loss rate: 35.39%

Run 4: Report of PCC-Expr — Data Link

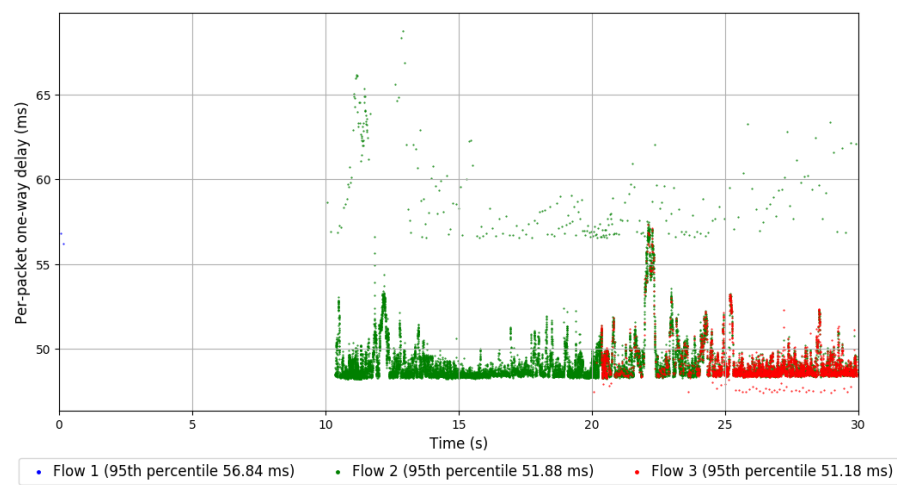
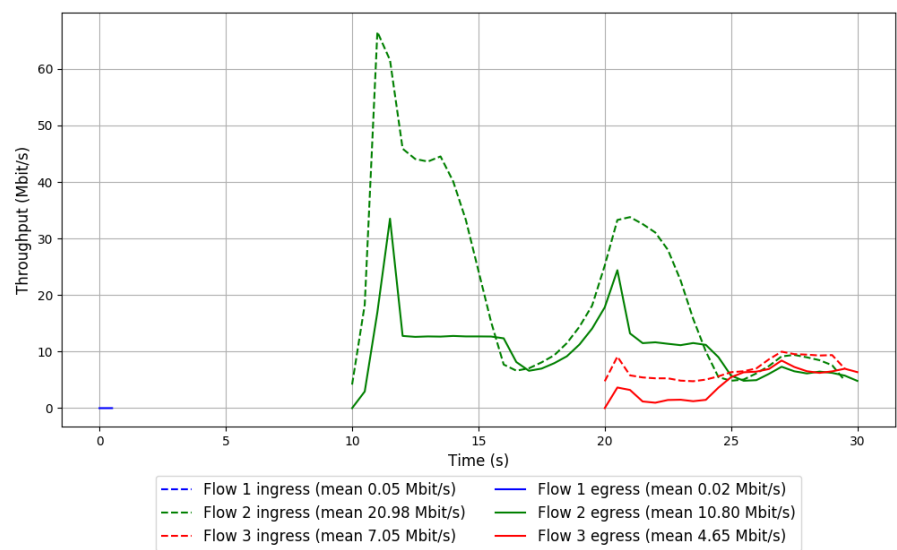


Run 5: Statistics of PCC-Expr

Start at: 2019-03-27 02:54:31
End at: 2019-03-27 02:55:01
Local clock offset: -0.299 ms
Remote clock offset: -10.179 ms

Below is generated by plot.py at 2019-03-27 03:26:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.72 Mbit/s
95th percentile per-packet one-way delay: 51.692 ms
Loss rate: 46.49%
-- Flow 1:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 56.845 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.80 Mbit/s
95th percentile per-packet one-way delay: 51.880 ms
Loss rate: 48.57%
-- Flow 3:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 51.179 ms
Loss rate: 34.06%

Run 5: Report of PCC-Expr — Data Link

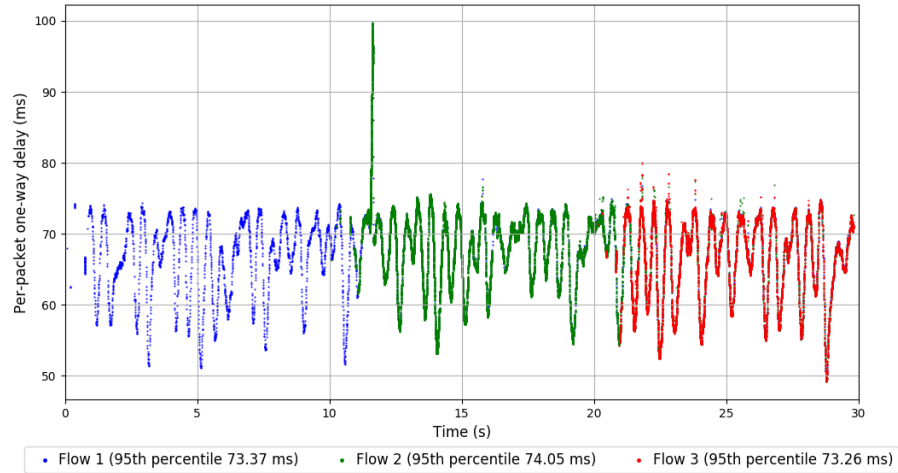
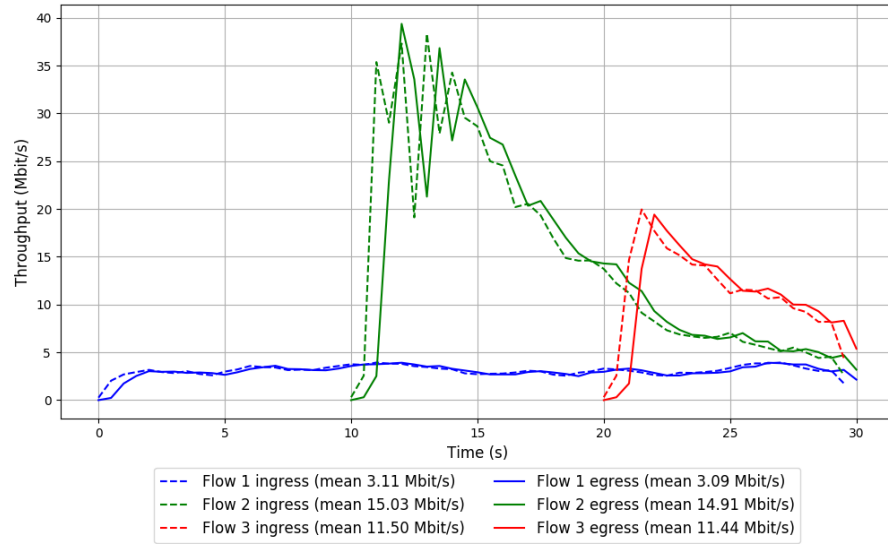


Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 01:04:43
End at: 2019-03-27 01:05:13
Local clock offset: 0.589 ms
Remote clock offset: -24.565 ms

Below is generated by plot.py at 2019-03-27 03:26:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.70 Mbit/s
95th percentile per-packet one-way delay: 73.643 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 73.366 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 14.91 Mbit/s
95th percentile per-packet one-way delay: 74.051 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 73.259 ms
Loss rate: 0.48%

Run 1: Report of QUIC Cubic — Data Link

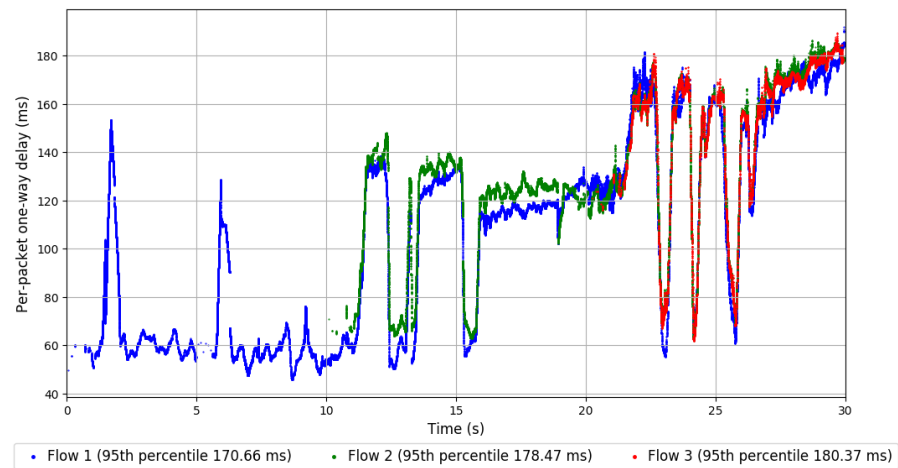
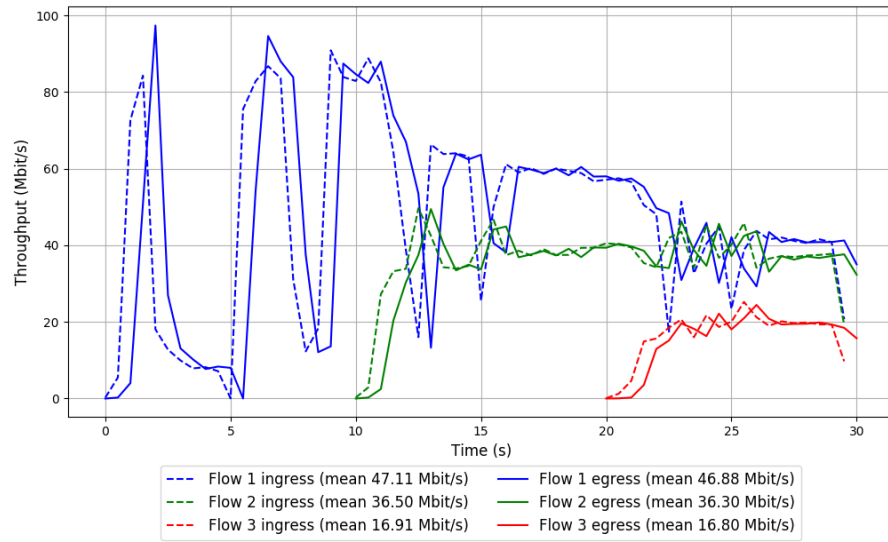


Run 2: Statistics of QUIC Cubic

Start at: 2019-03-27 01:31:38
End at: 2019-03-27 01:32:08
Local clock offset: 0.769 ms
Remote clock offset: -21.172 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.40 Mbit/s
95th percentile per-packet one-way delay: 174.582 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 170.663 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 36.30 Mbit/s
95th percentile per-packet one-way delay: 178.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 16.80 Mbit/s
95th percentile per-packet one-way delay: 180.374 ms
Loss rate: 0.48%

Run 2: Report of QUIC Cubic — Data Link

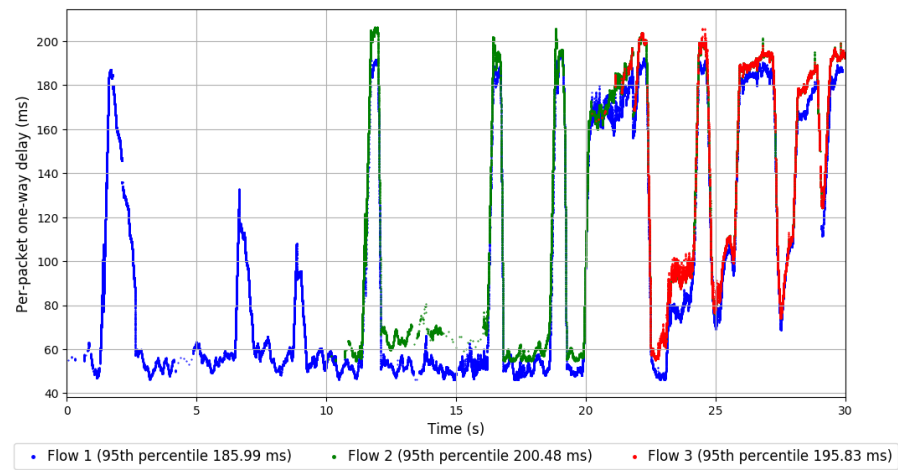
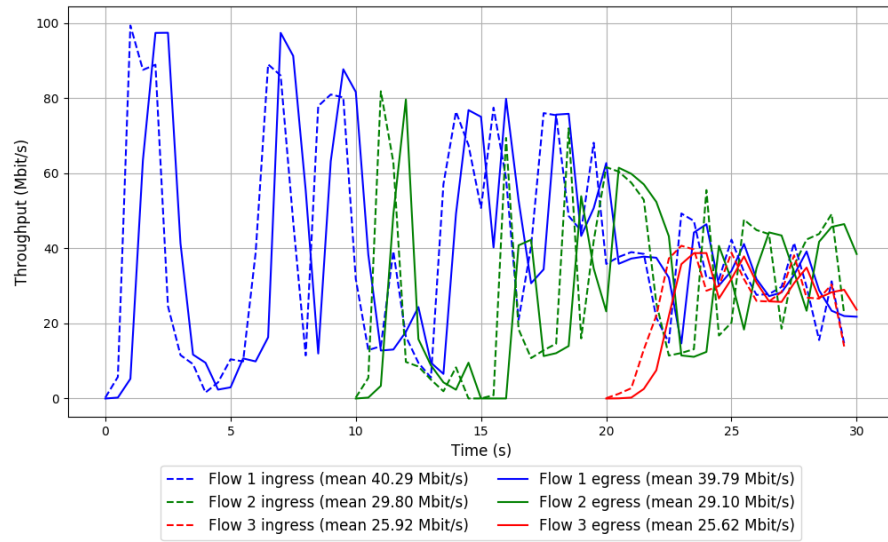


Run 3: Statistics of QUIC Cubic

Start at: 2019-03-27 01:58:22
End at: 2019-03-27 01:58:52
Local clock offset: -1.253 ms
Remote clock offset: -12.947 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.35 Mbit/s
95th percentile per-packet one-way delay: 194.444 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 39.79 Mbit/s
95th percentile per-packet one-way delay: 185.985 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 29.10 Mbit/s
95th percentile per-packet one-way delay: 200.484 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 25.62 Mbit/s
95th percentile per-packet one-way delay: 195.827 ms
Loss rate: 0.89%

Run 3: Report of QUIC Cubic — Data Link

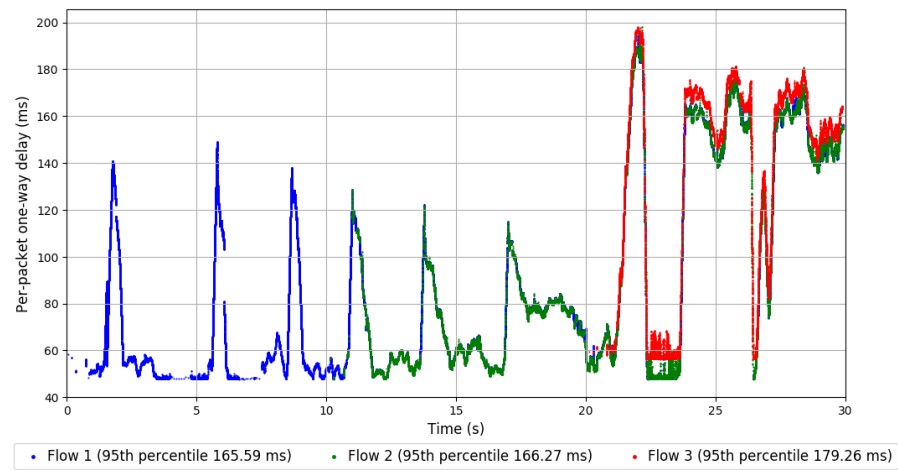
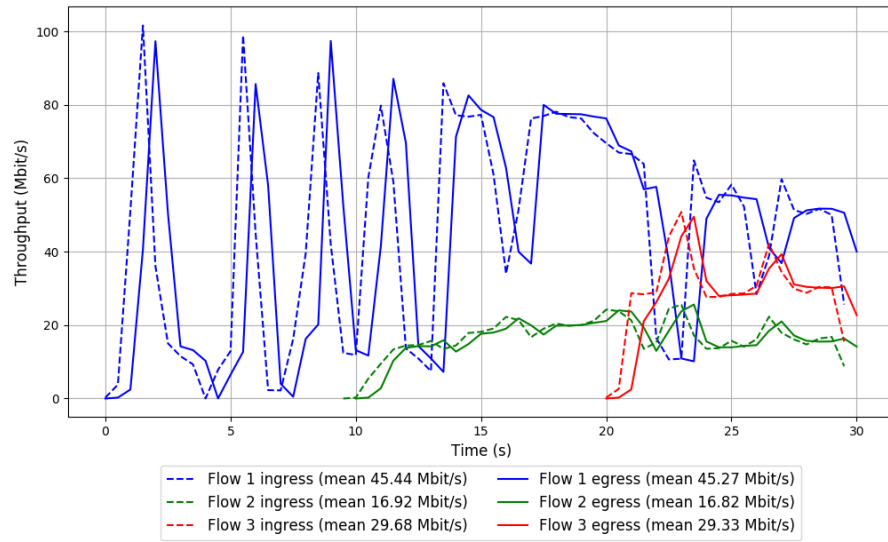


Run 4: Statistics of QUIC Cubic

Start at: 2019-03-27 02:25:08
End at: 2019-03-27 02:25:38
Local clock offset: -2.746 ms
Remote clock offset: -10.469 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 170.911 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 165.593 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 166.268 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 29.33 Mbit/s
95th percentile per-packet one-way delay: 179.261 ms
Loss rate: 0.49%

Run 4: Report of QUIC Cubic — Data Link

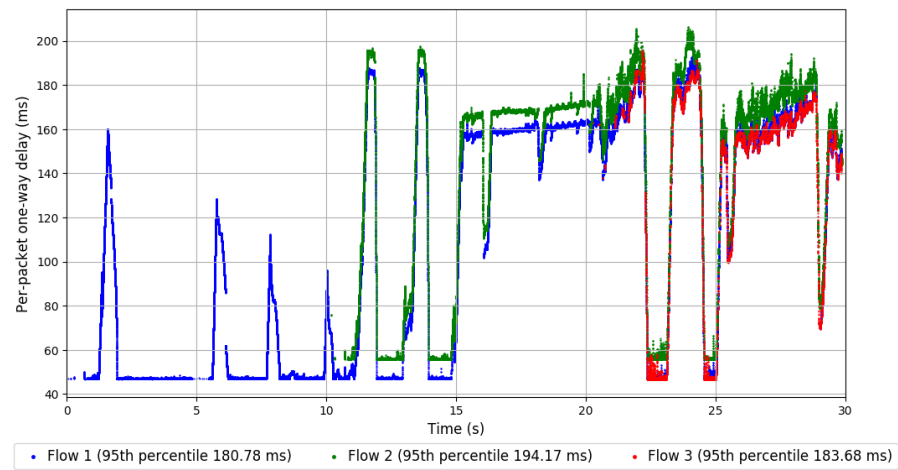
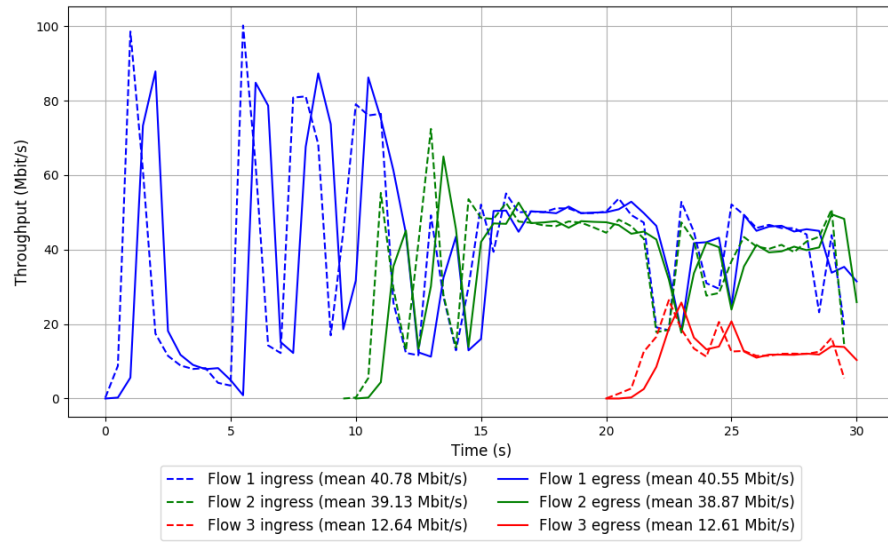


Run 5: Statistics of QUIC Cubic

Start at: 2019-03-27 02:51:56
End at: 2019-03-27 02:52:26
Local clock offset: -1.074 ms
Remote clock offset: -10.888 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.41 Mbit/s
95th percentile per-packet one-way delay: 186.282 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 40.55 Mbit/s
95th percentile per-packet one-way delay: 180.784 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: 194.169 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 12.61 Mbit/s
95th percentile per-packet one-way delay: 183.676 ms
Loss rate: 0.45%

Run 5: Report of QUIC Cubic — Data Link

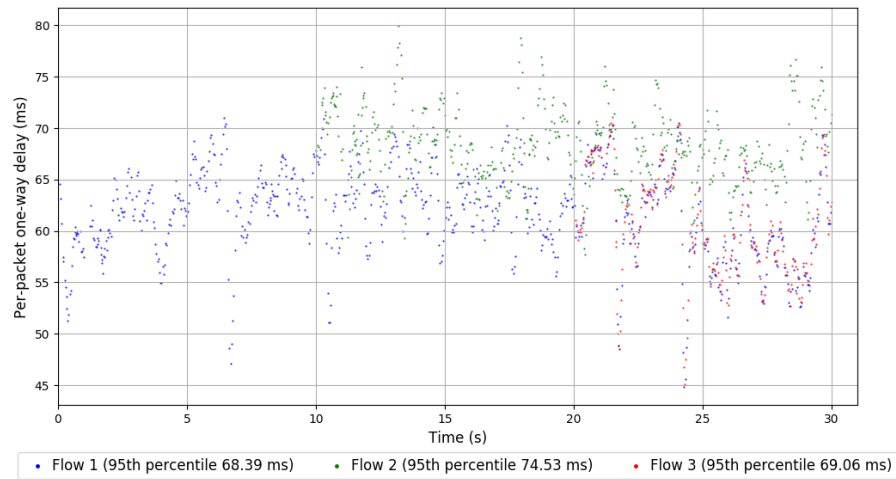
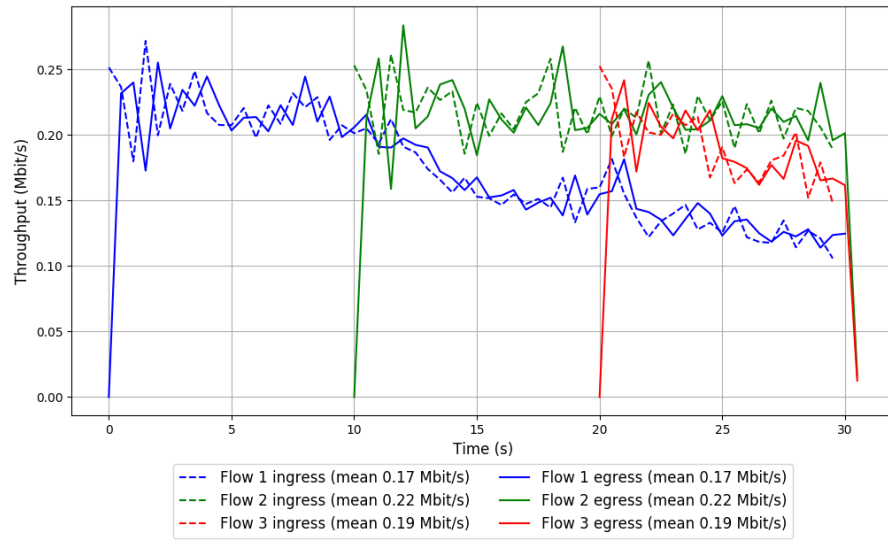


```
Run 1: Statistics of SCReAM

Start at: 2019-03-27 01:27:54
End at: 2019-03-27 01:28:24
Local clock offset: 0.787 ms
Remote clock offset: -19.304 ms

# Below is generated by plot.py at 2019-03-27 03:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 72.116 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 68.388 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 74.526 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 69.064 ms
Loss rate: 0.05%
```

Run 1: Report of SReAM — Data Link

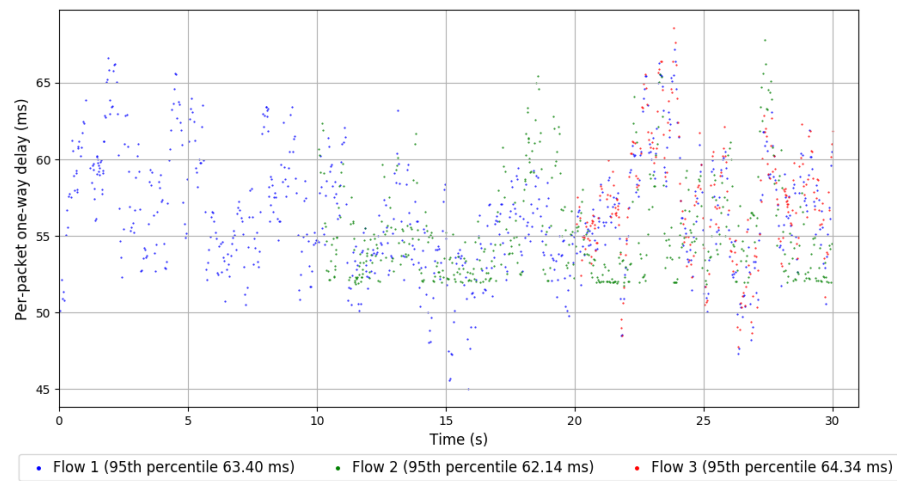
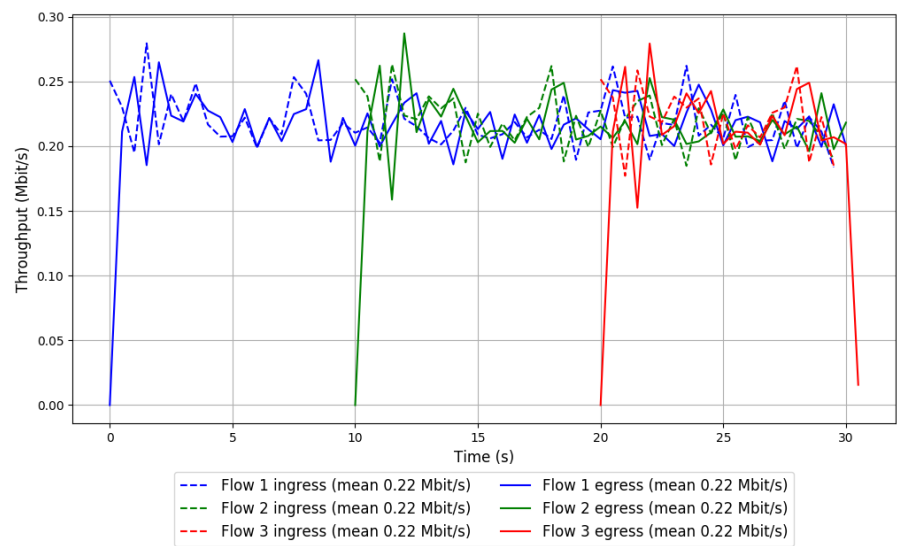


Run 2: Statistics of SReAM

Start at: 2019-03-27 01:54:38
End at: 2019-03-27 01:55:08
Local clock offset: -0.857 ms
Remote clock offset: -15.816 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.400 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.139 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.344 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

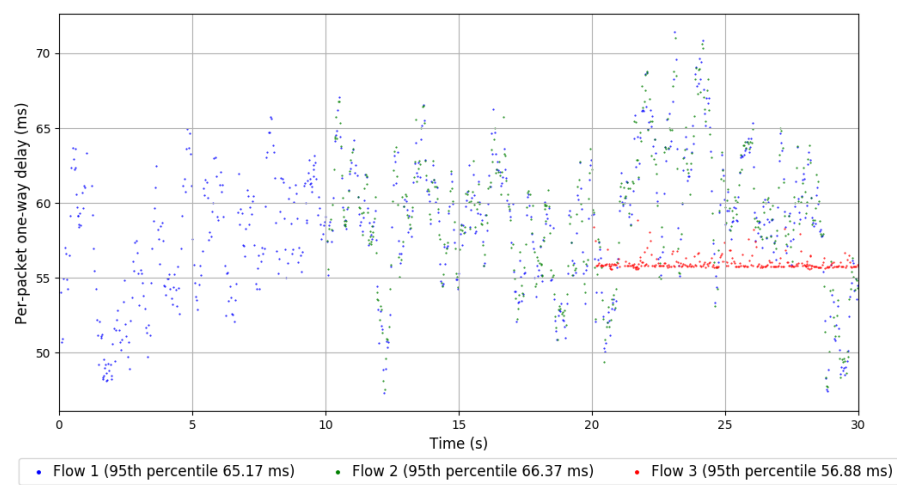
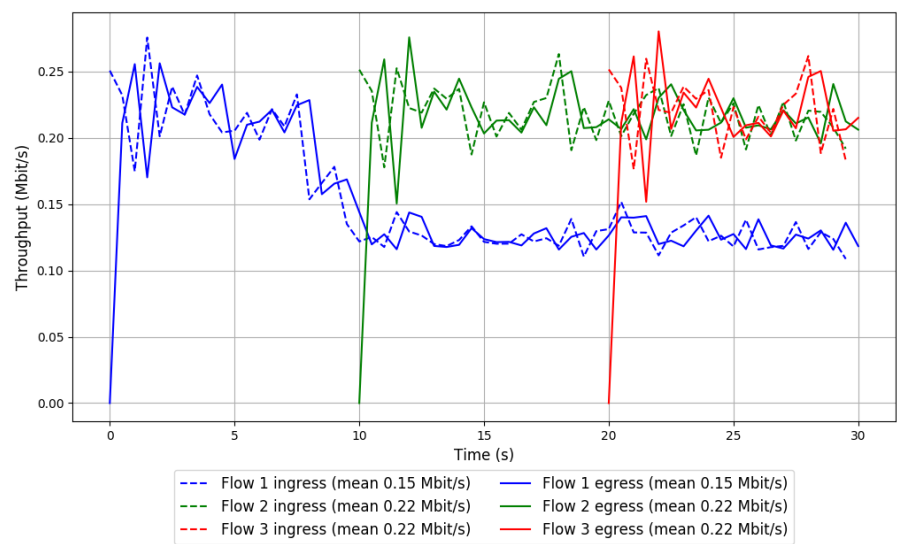


Run 3: Statistics of SReAM

Start at: 2019-03-27 02:21:25
End at: 2019-03-27 02:21:55
Local clock offset: -2.411 ms
Remote clock offset: -11.458 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 65.326 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 65.165 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.885 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

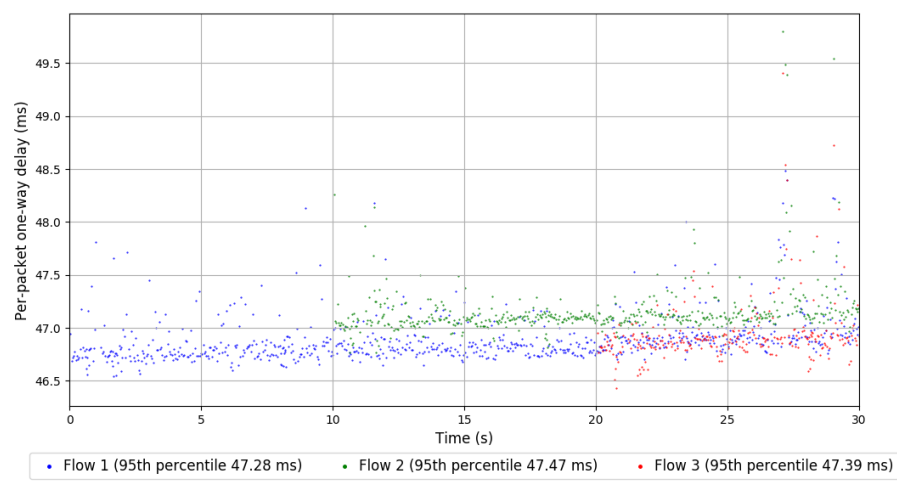
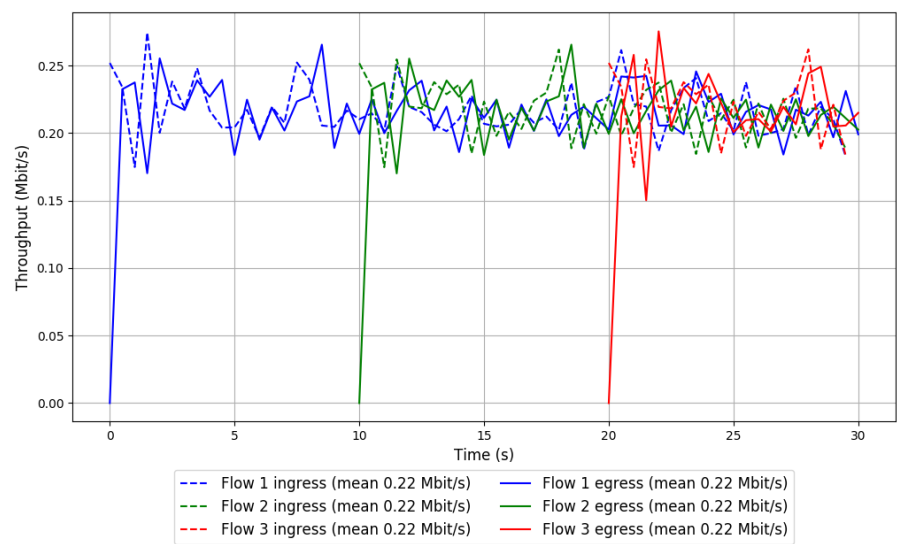


Run 4: Statistics of SReAM

Start at: 2019-03-27 02:48:13
End at: 2019-03-27 02:48:43
Local clock offset: -2.458 ms
Remote clock offset: -10.898 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 47.378 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.277 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.470 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 47.390 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

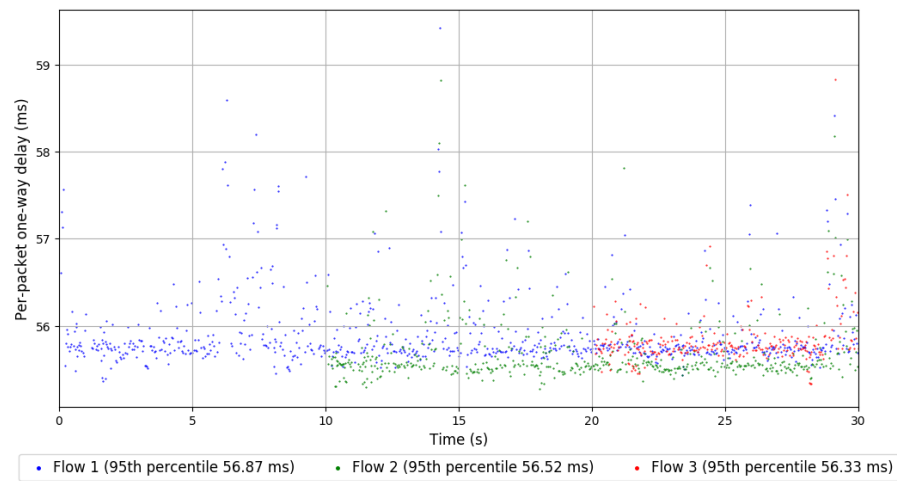
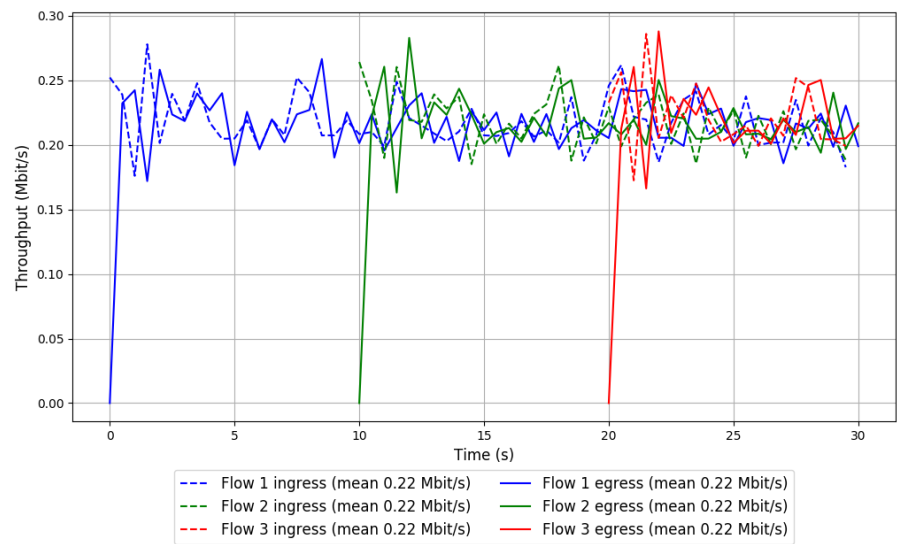


Run 5: Statistics of SReAM

Start at: 2019-03-27 03:15:06
End at: 2019-03-27 03:15:36
Local clock offset: 2.023 ms
Remote clock offset: -11.39 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 56.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.870 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.515 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 56.332 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

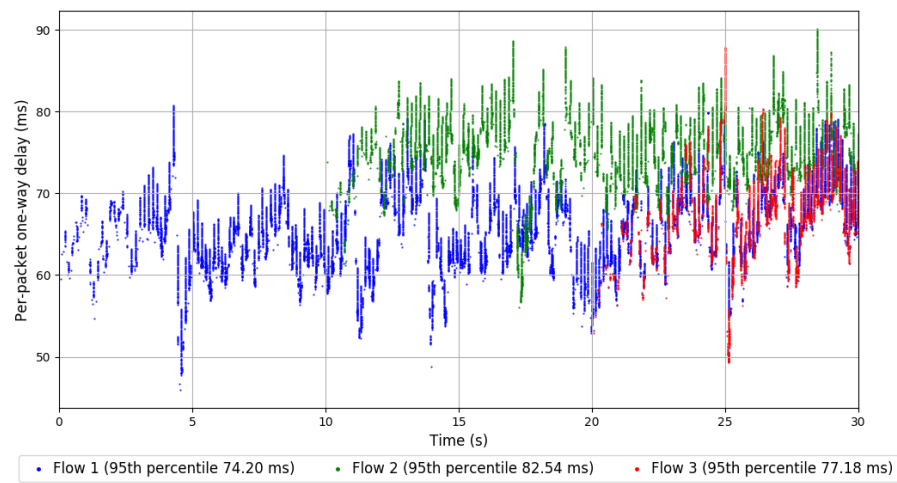
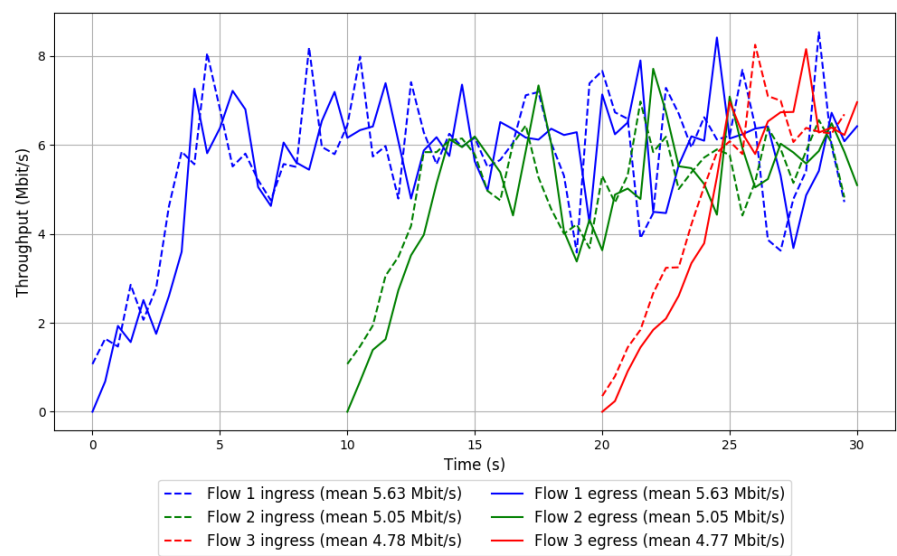


Run 1: Statistics of Sprout

Start at: 2019-03-27 01:16:23
End at: 2019-03-27 01:16:53
Local clock offset: 0.734 ms
Remote clock offset: -16.375 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.56 Mbit/s
95th percentile per-packet one-way delay: 80.144 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 74.197 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 5.05 Mbit/s
95th percentile per-packet one-way delay: 82.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 77.177 ms
Loss rate: 0.03%

Run 1: Report of Sprout — Data Link

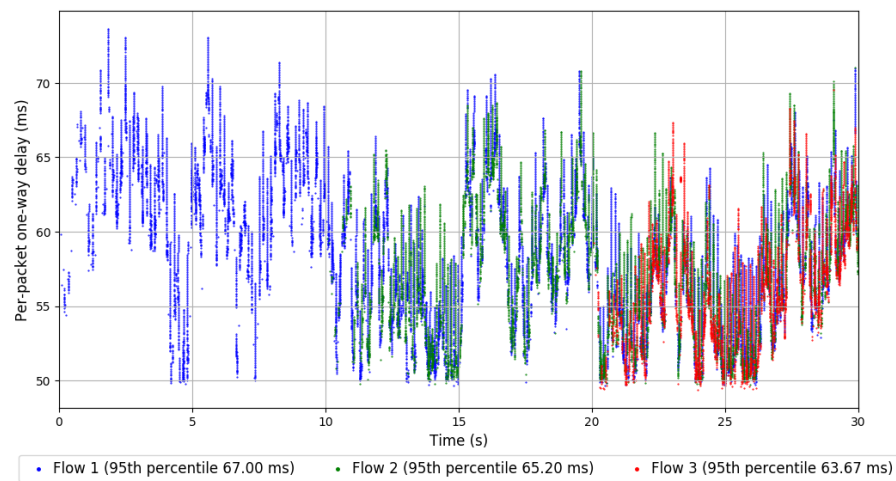
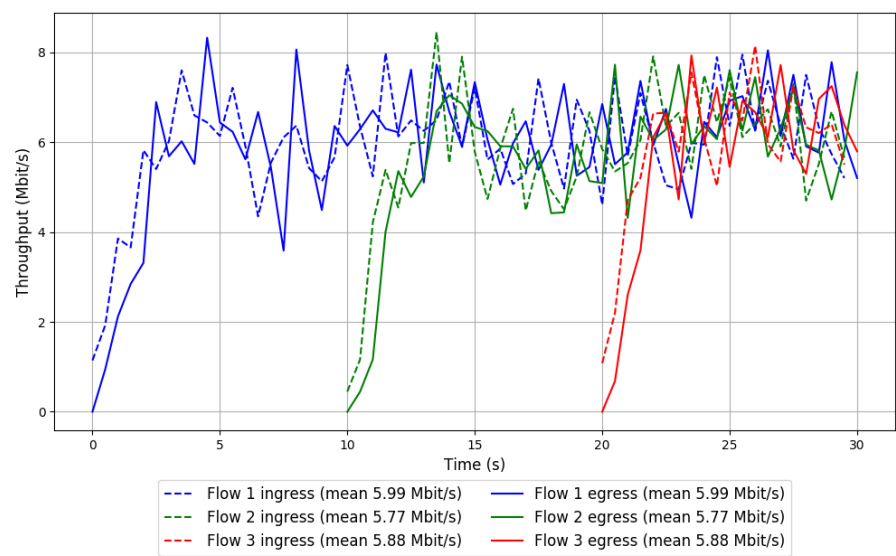


Run 2: Statistics of Sprout

Start at: 2019-03-27 01:43:16
End at: 2019-03-27 01:43:46
Local clock offset: 0.874 ms
Remote clock offset: -18.02 ms

```
# Below is generated by plot.py at 2019-03-27 03:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 66.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 67.002 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 65.203 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

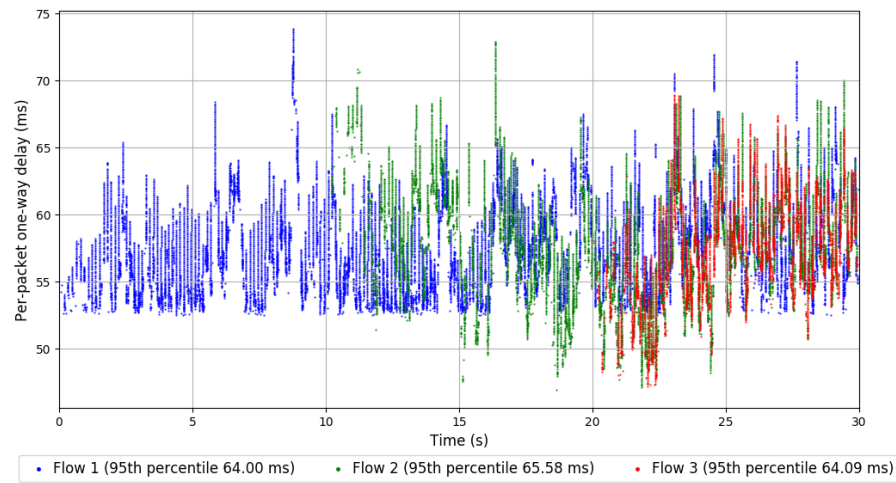
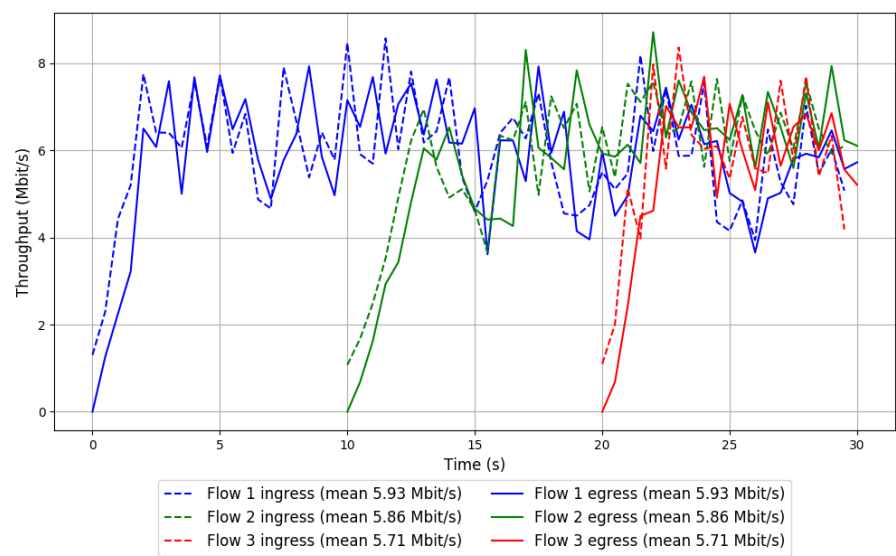


Run 3: Statistics of Sprout

Start at: 2019-03-27 02:09:58
End at: 2019-03-27 02:10:28
Local clock offset: -1.996 ms
Remote clock offset: -15.644 ms

```
# Below is generated by plot.py at 2019-03-27 03:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 64.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 64.001 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 65.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 64.090 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

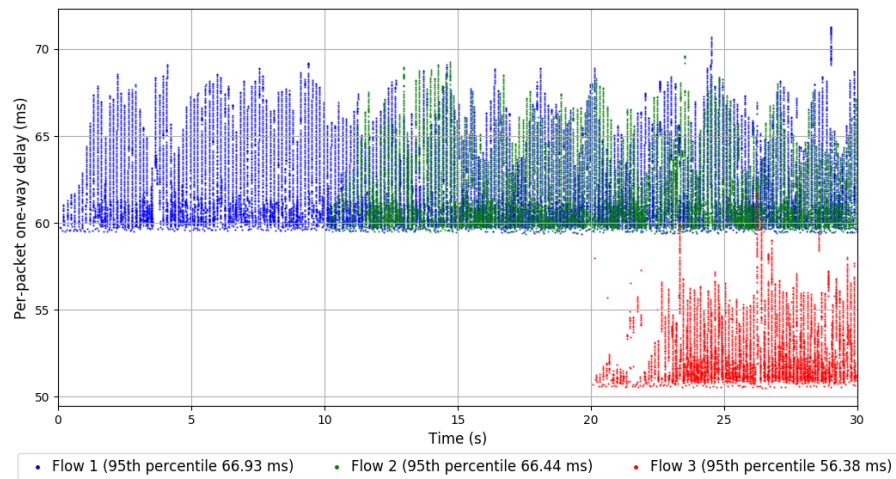
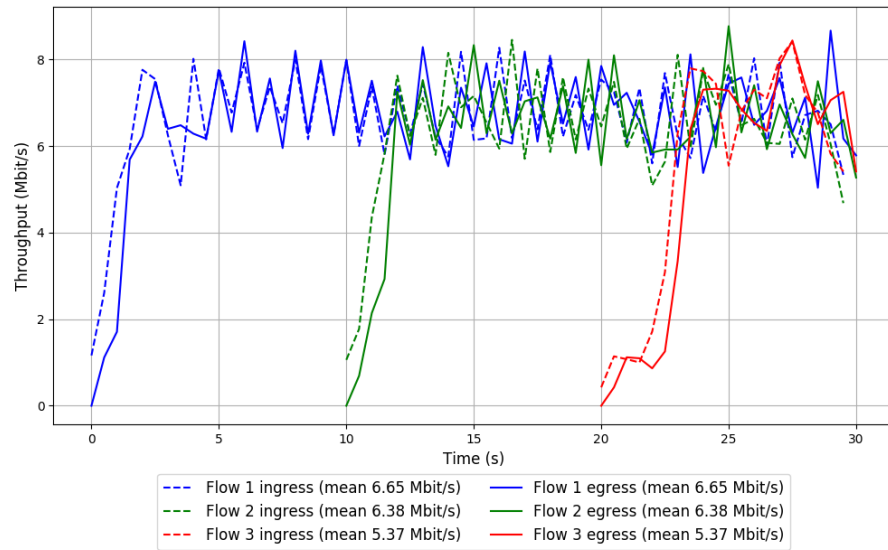


Run 4: Statistics of Sprout

Start at: 2019-03-27 02:36:46
End at: 2019-03-27 02:37:16
Local clock offset: -3.319 ms
Remote clock offset: -7.054 ms

```
# Below is generated by plot.py at 2019-03-27 03:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.66 Mbit/s
95th percentile per-packet one-way delay: 66.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 66.932 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 66.443 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.37 Mbit/s
95th percentile per-packet one-way delay: 56.381 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

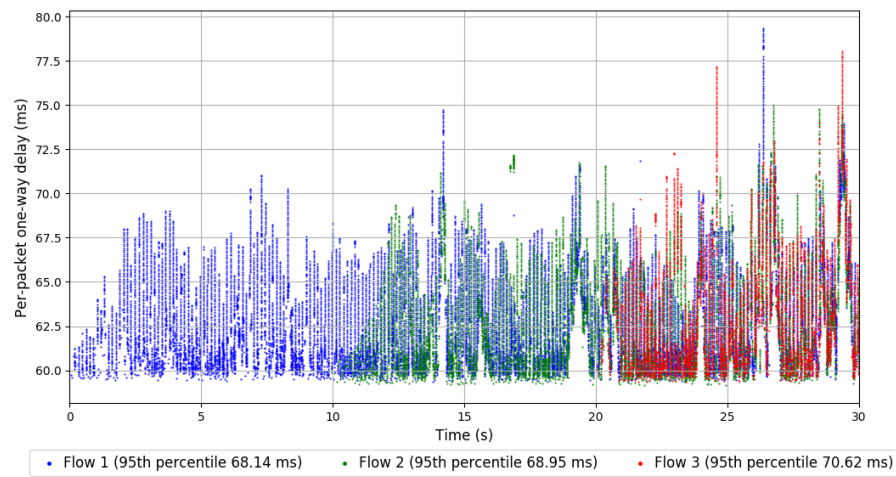
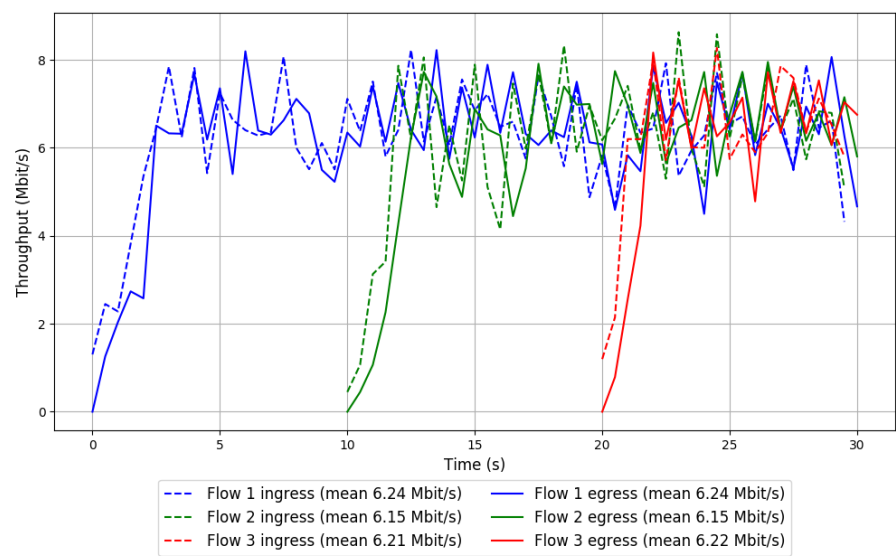


Run 5: Statistics of Sprout

Start at: 2019-03-27 03:03:32
End at: 2019-03-27 03:04:03
Local clock offset: 1.252 ms
Remote clock offset: -7.326 ms

```
# Below is generated by plot.py at 2019-03-27 03:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.39 Mbit/s
95th percentile per-packet one-way delay: 68.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 68.138 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 68.955 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 70.624 ms
Loss rate: 0.02%
```

Run 5: Report of Sprout — Data Link

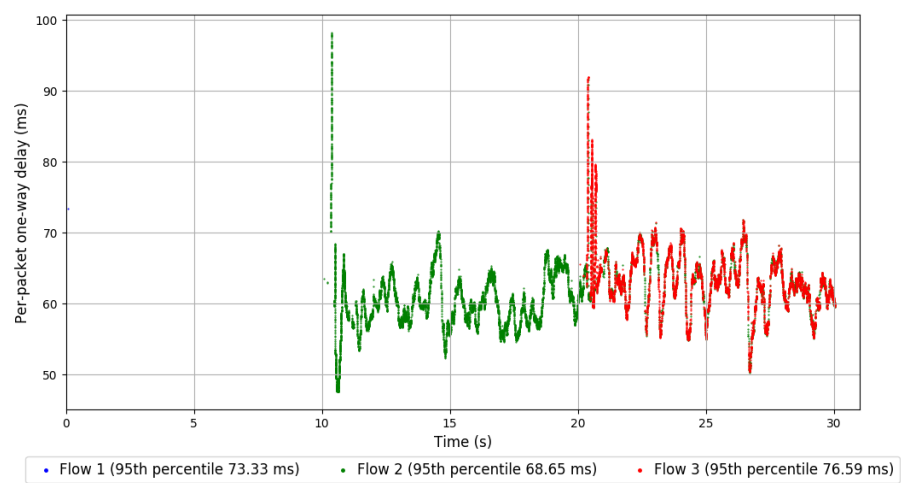
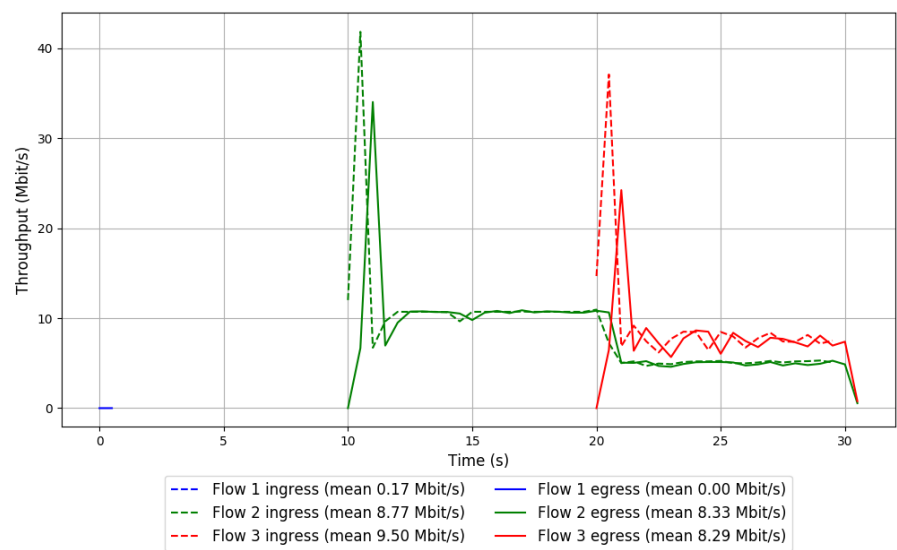



```
Run 1: Statistics of TaoVA-100x

Start at: 2019-03-27 01:22:50
End at: 2019-03-27 01:23:20
Local clock offset: 0.741 ms
Remote clock offset: -20.088 ms

# Below is generated by plot.py at 2019-03-27 03:26:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 70.293 ms
Loss rate: 7.74%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 73.332 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 68.646 ms
Loss rate: 5.01%
-- Flow 3:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 76.592 ms
Loss rate: 12.76%
```

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

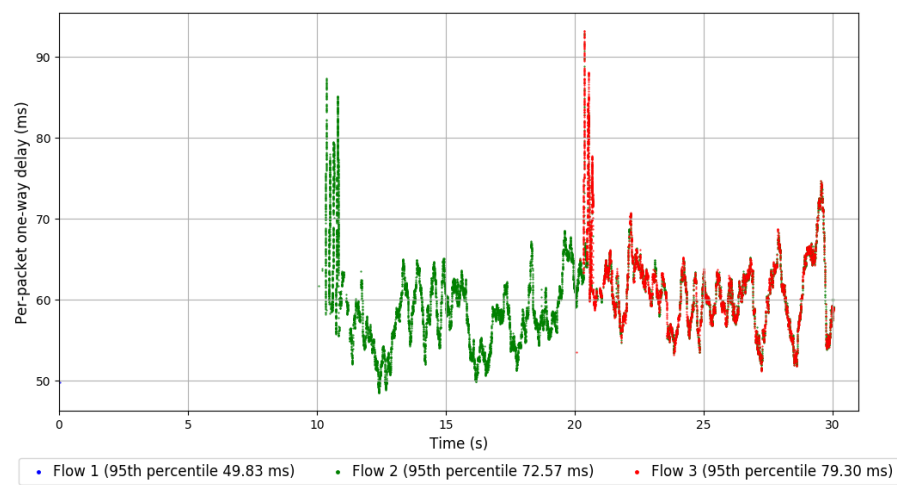
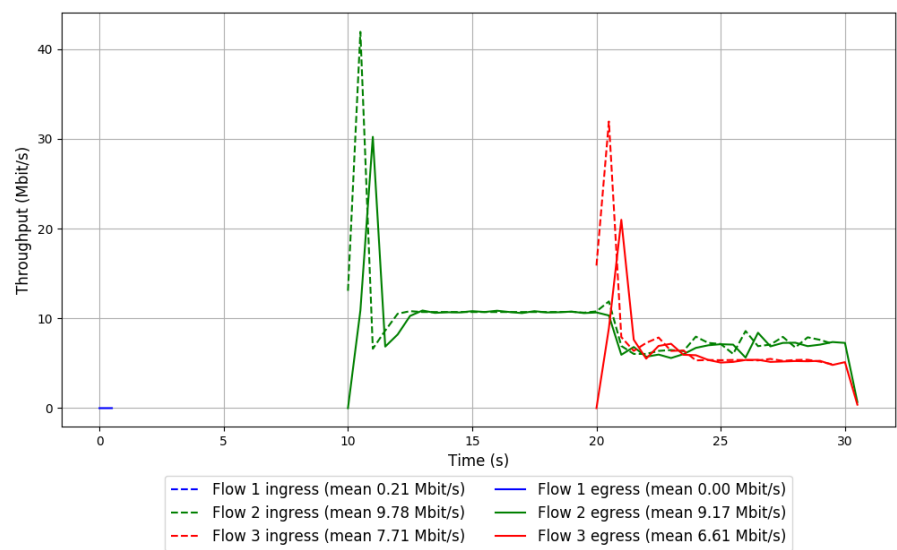


Run 2: Statistics of TaoVA-100x

Start at: 2019-03-27 01:49:38
End at: 2019-03-27 01:50:08
Local clock offset: -0.011 ms
Remote clock offset: -15.998 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.30 Mbit/s
95th percentile per-packet one-way delay: 74.502 ms
Loss rate: 8.55%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 49.829 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 72.572 ms
Loss rate: 6.28%
-- Flow 3:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 79.296 ms
Loss rate: 14.29%

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

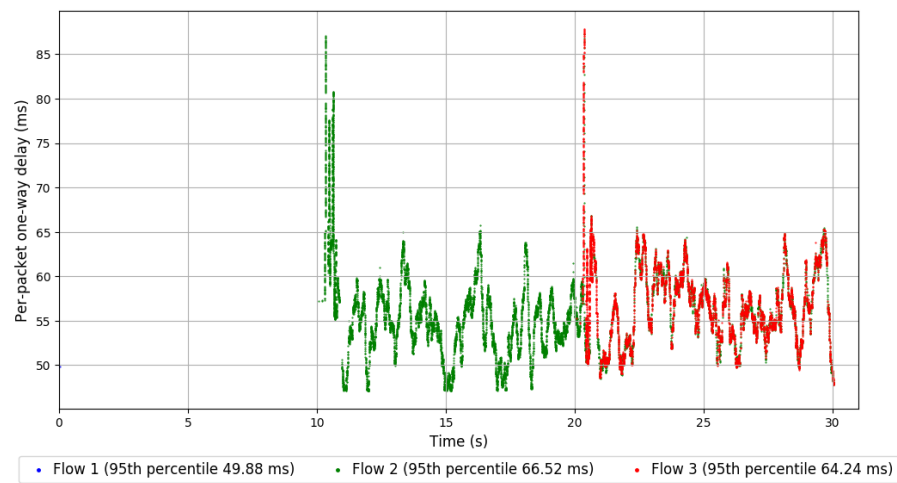
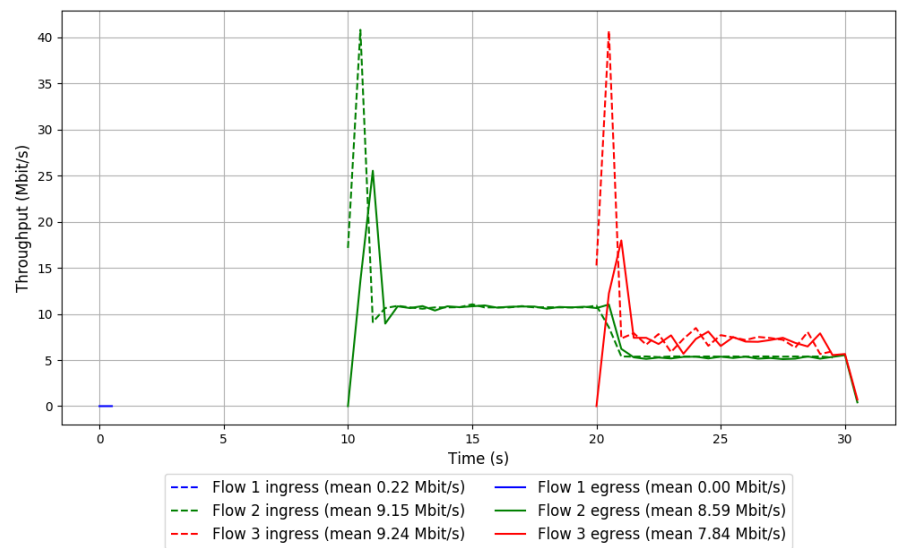


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-27 02:16:23
End at: 2019-03-27 02:16:53
Local clock offset: -2.375 ms
Remote clock offset: -12.582 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.32 Mbit/s
95th percentile per-packet one-way delay: 65.078 ms
Loss rate: 9.25%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 49.882 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 66.521 ms
Loss rate: 6.22%
-- Flow 3:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 64.239 ms
Loss rate: 15.24%

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

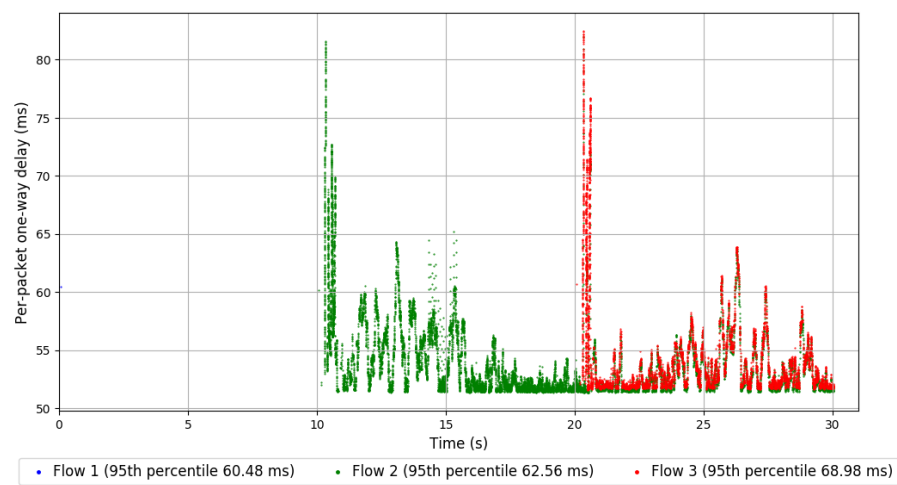
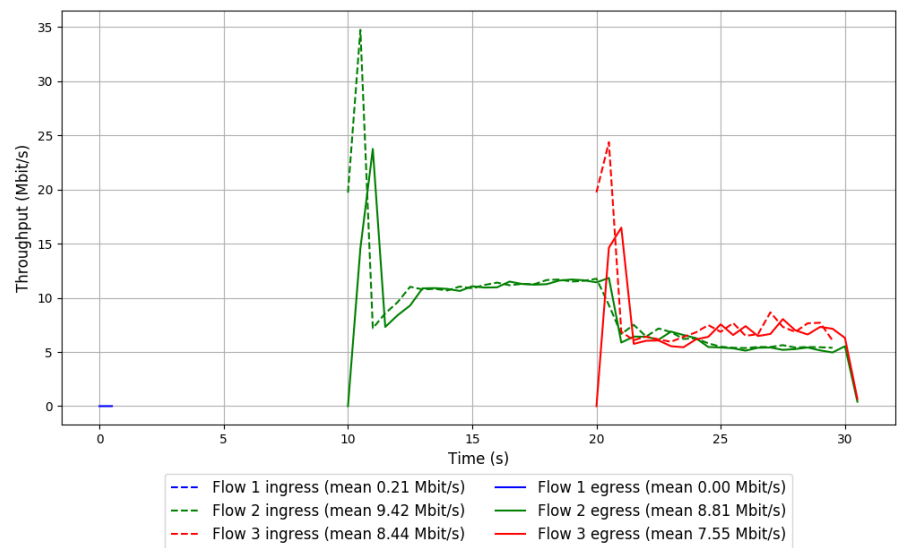


Run 4: Statistics of TaoVA-100x

Start at: 2019-03-27 02:43:12
End at: 2019-03-27 02:43:42
Local clock offset: -3.44 ms
Remote clock offset: -6.087 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.37 Mbit/s
95th percentile per-packet one-way delay: 64.152 ms
Loss rate: 7.82%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 60.483 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.81 Mbit/s
95th percentile per-packet one-way delay: 62.558 ms
Loss rate: 6.54%
-- Flow 3:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 68.985 ms
Loss rate: 10.67%

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

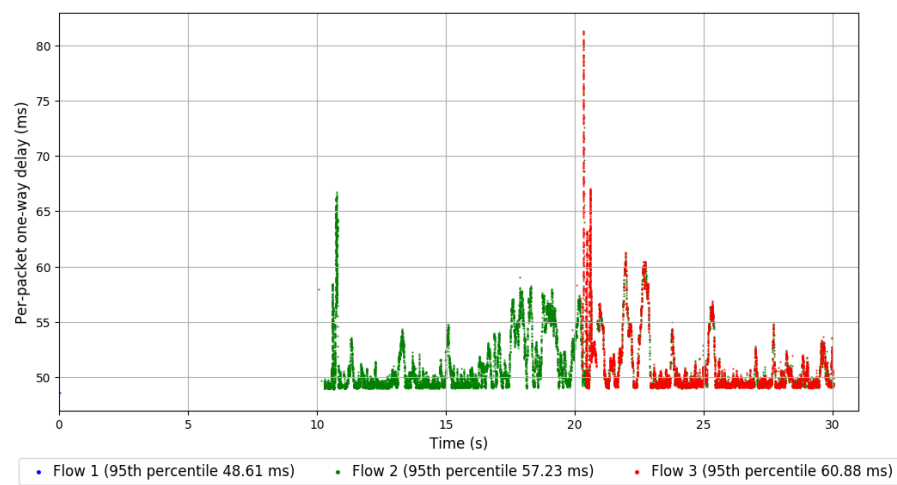
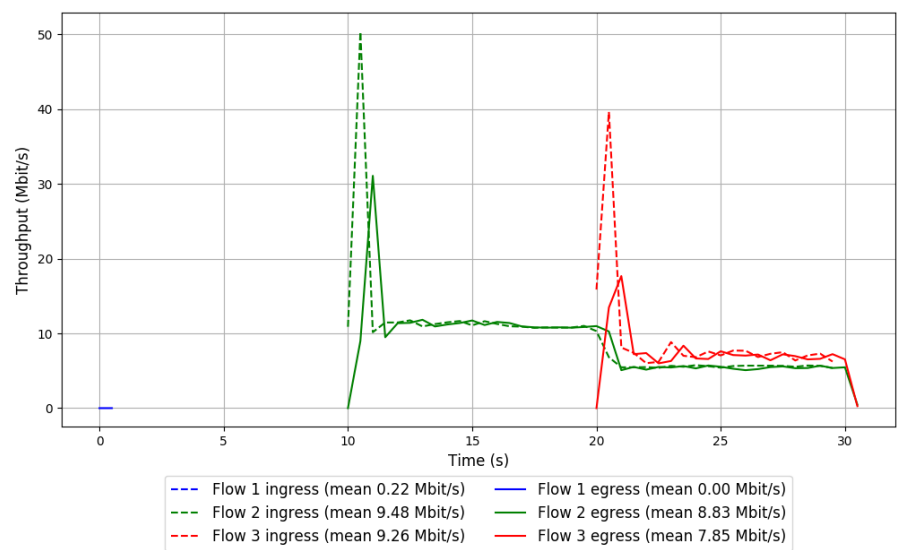


Run 5: Statistics of TaoVA-100x

Start at: 2019-03-27 03:10:03
End at: 2019-03-27 03:10:33
Local clock offset: 1.692 ms
Remote clock offset: -9.633 ms

Below is generated by plot.py at 2019-03-27 03:26:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 58.393 ms
Loss rate: 9.63%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 48.614 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.83 Mbit/s
95th percentile per-packet one-way delay: 57.235 ms
Loss rate: 6.86%
-- Flow 3:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 60.877 ms
Loss rate: 15.31%

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

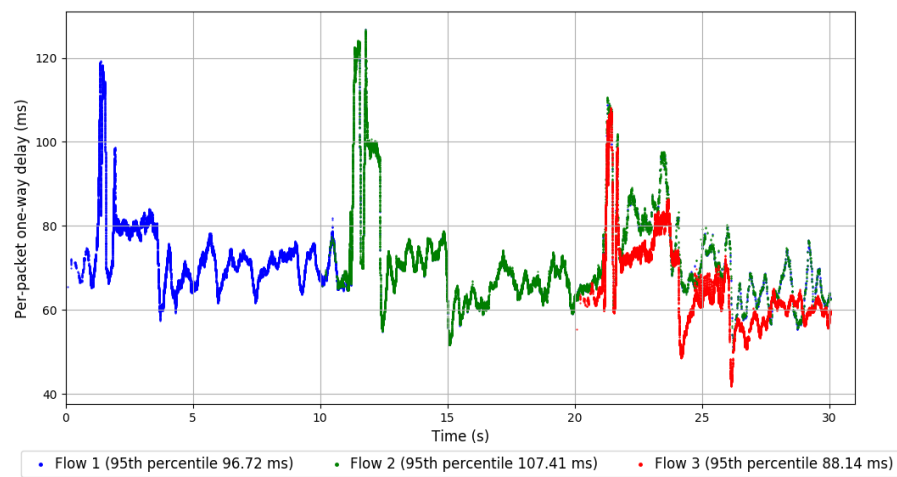
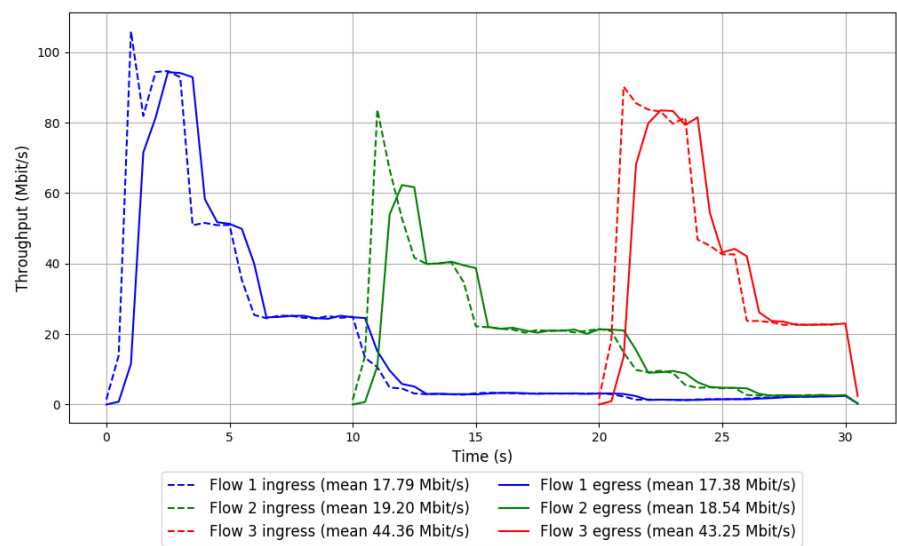


Run 1: Statistics of TCP Vegas

Start at: 2019-03-27 01:21:33
End at: 2019-03-27 01:22:03
Local clock offset: 0.722 ms
Remote clock offset: -20.498 ms

Below is generated by plot.py at 2019-03-27 03:26:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 44.12 Mbit/s
95th percentile per-packet one-way delay: 99.444 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 17.38 Mbit/s
95th percentile per-packet one-way delay: 96.720 ms
Loss rate: 2.32%
-- Flow 2:
Average throughput: 18.54 Mbit/s
95th percentile per-packet one-way delay: 107.410 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 43.25 Mbit/s
95th percentile per-packet one-way delay: 88.143 ms
Loss rate: 2.47%

Run 1: Report of TCP Vegas — Data Link

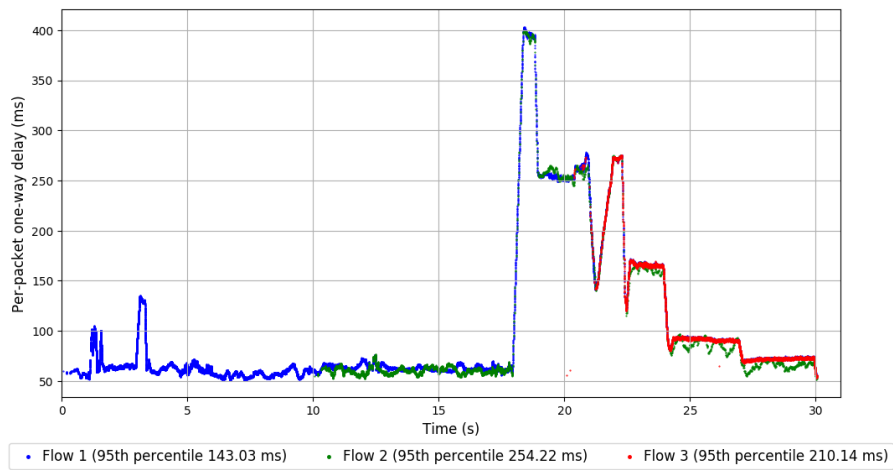
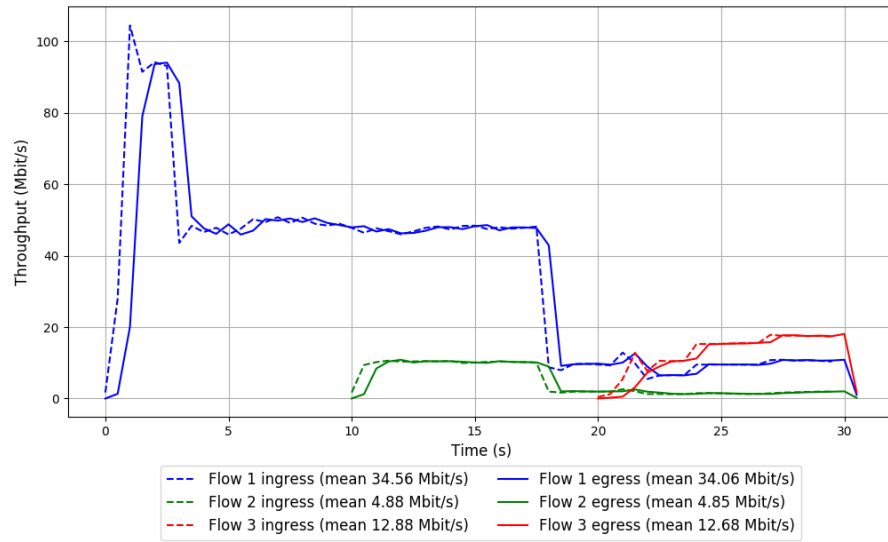


Run 2: Statistics of TCP Vegas

Start at: 2019-03-27 01:48:22
End at: 2019-03-27 01:48:52
Local clock offset: 0.298 ms
Remote clock offset: -16.598 ms

Below is generated by plot.py at 2019-03-27 03:26:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 41.51 Mbit/s
95th percentile per-packet one-way delay: 166.568 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 143.033 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 254.216 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 210.144 ms
Loss rate: 1.57%

Run 2: Report of TCP Vegas — Data Link

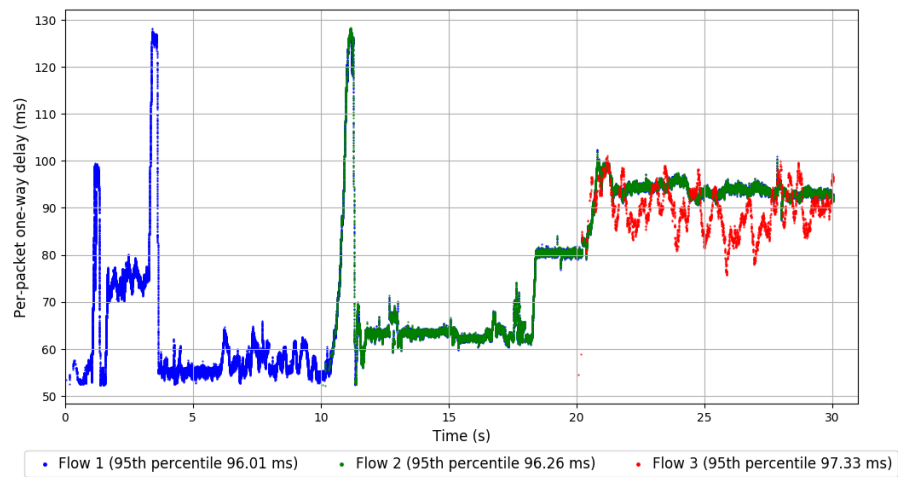
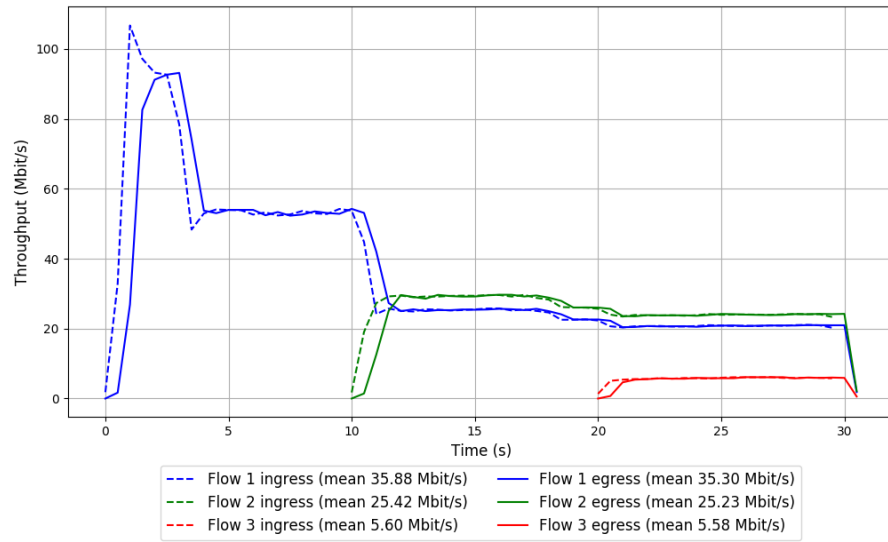


Run 3: Statistics of TCP Vegas

Start at: 2019-03-27 02:15:06
End at: 2019-03-27 02:15:36
Local clock offset: -2.192 ms
Remote clock offset: -15.446 ms

Below is generated by plot.py at 2019-03-27 03:27:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.97 Mbit/s
95th percentile per-packet one-way delay: 96.224 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 35.30 Mbit/s
95th percentile per-packet one-way delay: 96.012 ms
Loss rate: 1.58%
-- Flow 2:
Average throughput: 25.23 Mbit/s
95th percentile per-packet one-way delay: 96.258 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 5.58 Mbit/s
95th percentile per-packet one-way delay: 97.331 ms
Loss rate: 0.30%

Run 3: Report of TCP Vegas — Data Link

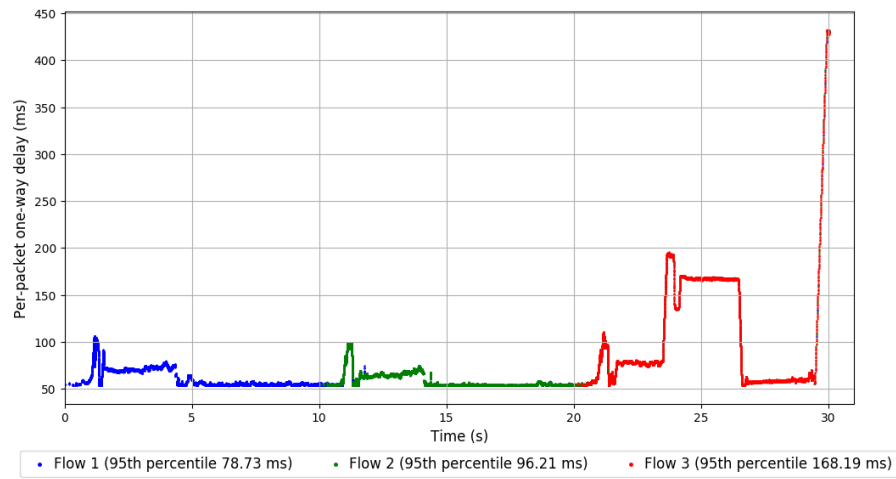
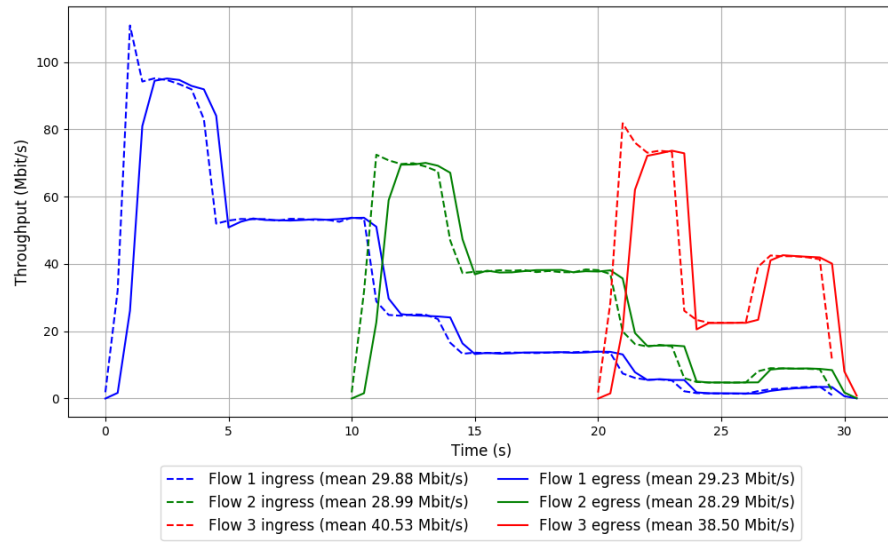


Run 4: Statistics of TCP Vegas

Start at: 2019-03-27 02:41:55
End at: 2019-03-27 02:42:25
Local clock offset: -3.349 ms
Remote clock offset: -12.612 ms

Below is generated by plot.py at 2019-03-27 03:27:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 122.018 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 29.23 Mbit/s
95th percentile per-packet one-way delay: 78.729 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 96.213 ms
Loss rate: 2.44%
-- Flow 3:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 168.195 ms
Loss rate: 4.94%

Run 4: Report of TCP Vegas — Data Link

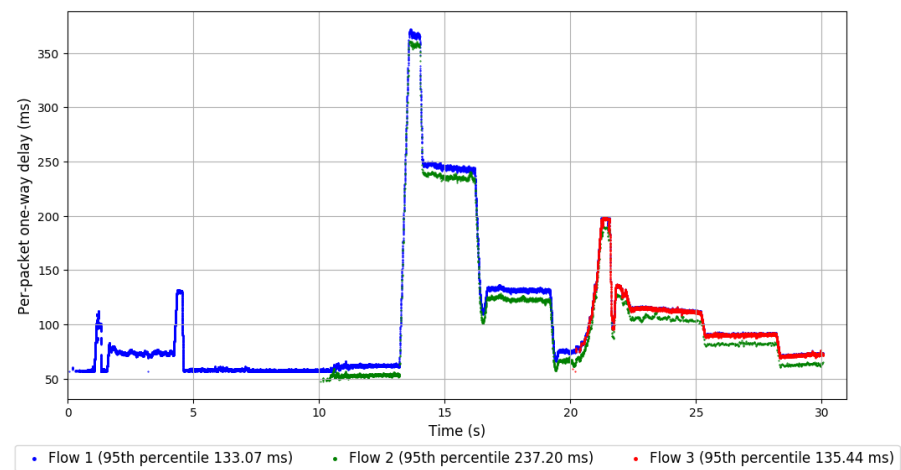
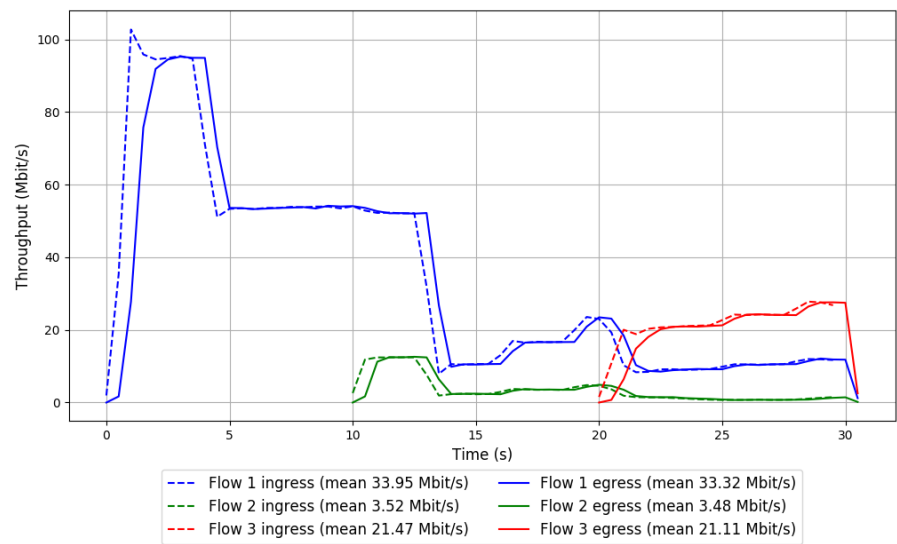


Run 5: Statistics of TCP Vegas

Start at: 2019-03-27 03:08:47
End at: 2019-03-27 03:09:17
Local clock offset: 1.593 ms
Remote clock offset: -10.522 ms

Below is generated by plot.py at 2019-03-27 03:27:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 134.354 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 33.32 Mbit/s
95th percentile per-packet one-way delay: 133.067 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 237.203 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 21.11 Mbit/s
95th percentile per-packet one-way delay: 135.444 ms
Loss rate: 1.68%

Run 5: Report of TCP Vegas — Data Link

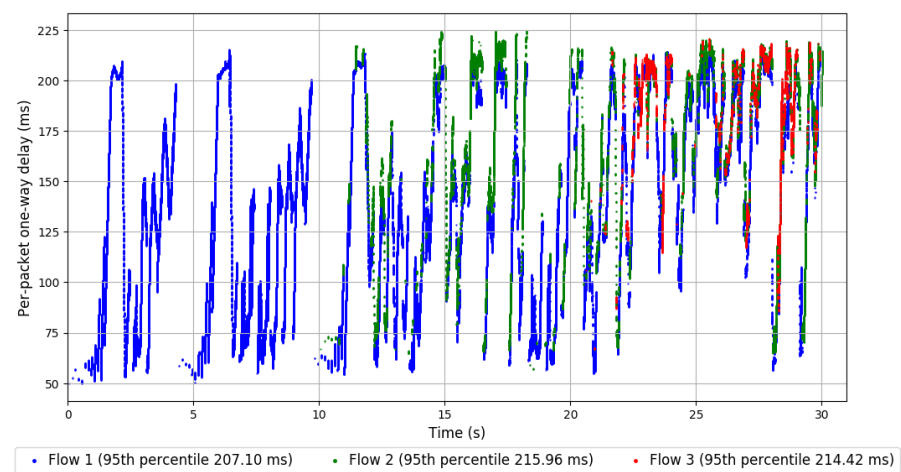
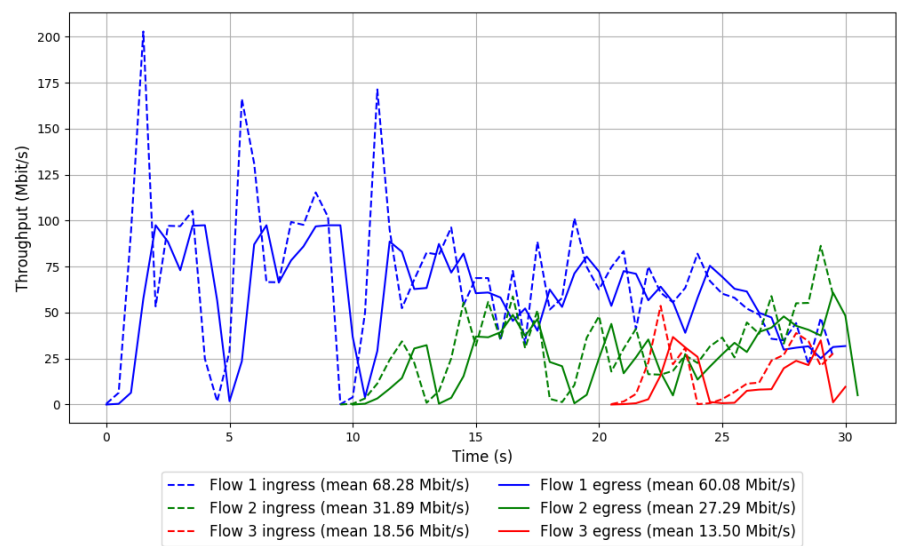


Run 1: Statistics of Verus

Start at: 2019-03-27 01:17:38
End at: 2019-03-27 01:18:08
Local clock offset: 0.72 ms
Remote clock offset: -20.474 ms

Below is generated by plot.py at 2019-03-27 03:27:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.26 Mbit/s
95th percentile per-packet one-way delay: 210.844 ms
Loss rate: 12.98%
-- Flow 1:
Average throughput: 60.08 Mbit/s
95th percentile per-packet one-way delay: 207.105 ms
Loss rate: 11.53%
-- Flow 2:
Average throughput: 27.29 Mbit/s
95th percentile per-packet one-way delay: 215.960 ms
Loss rate: 13.79%
-- Flow 3:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 214.424 ms
Loss rate: 27.01%

Run 1: Report of Verus — Data Link

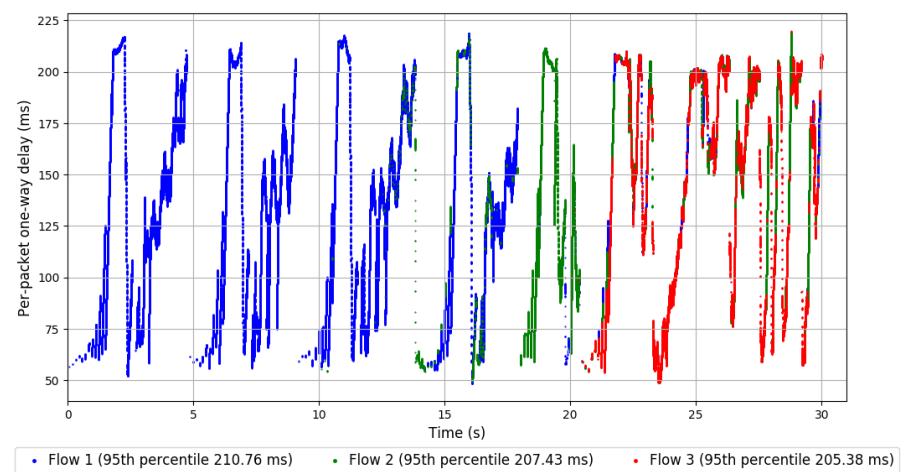
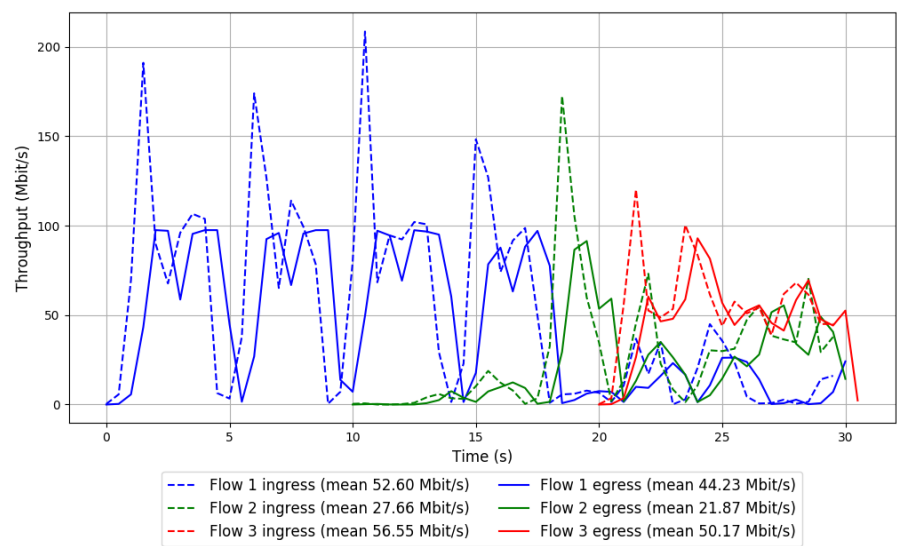


Run 2: Statistics of Verus

Start at: 2019-03-27 01:44:30
End at: 2019-03-27 01:45:00
Local clock offset: 1.017 ms
Remote clock offset: -17.917 ms

Below is generated by plot.py at 2019-03-27 03:27:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.09 Mbit/s
95th percentile per-packet one-way delay: 209.422 ms
Loss rate: 15.57%
-- Flow 1:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 210.762 ms
Loss rate: 15.52%
-- Flow 2:
Average throughput: 21.87 Mbit/s
95th percentile per-packet one-way delay: 207.427 ms
Loss rate: 20.66%
-- Flow 3:
Average throughput: 50.17 Mbit/s
95th percentile per-packet one-way delay: 205.380 ms
Loss rate: 10.66%

Run 2: Report of Verus — Data Link

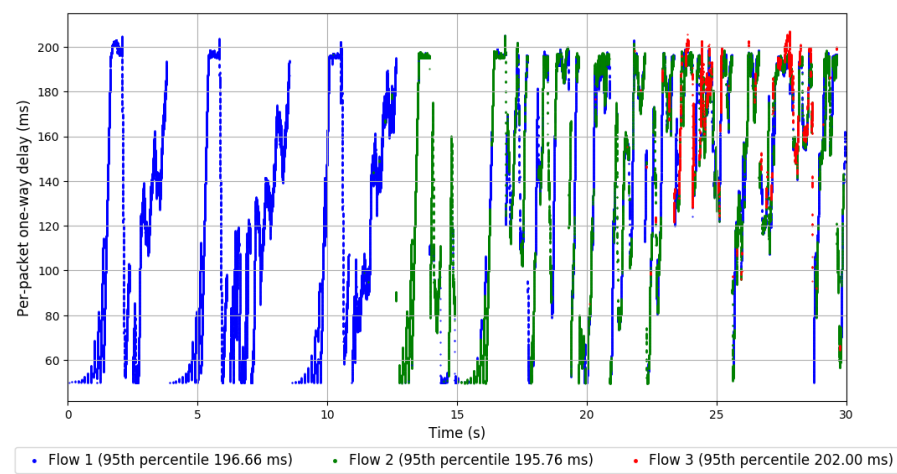
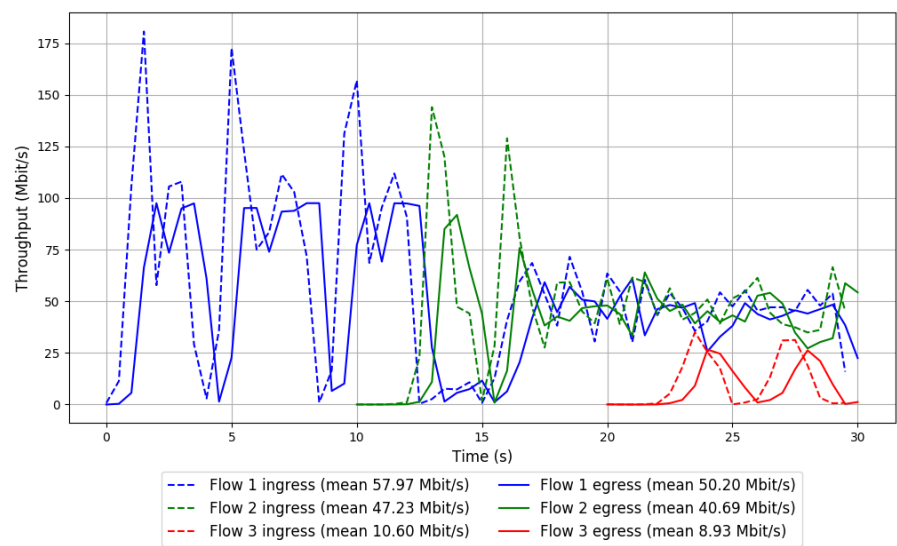


Run 3: Statistics of Verus

Start at: 2019-03-27 02:11:12
End at: 2019-03-27 02:11:42
Local clock offset: -1.933 ms
Remote clock offset: -18.437 ms

Below is generated by plot.py at 2019-03-27 03:27:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.83 Mbit/s
95th percentile per-packet one-way delay: 196.473 ms
Loss rate: 13.59%
-- Flow 1:
Average throughput: 50.20 Mbit/s
95th percentile per-packet one-way delay: 196.655 ms
Loss rate: 13.10%
-- Flow 2:
Average throughput: 40.69 Mbit/s
95th percentile per-packet one-way delay: 195.761 ms
Loss rate: 14.25%
-- Flow 3:
Average throughput: 8.93 Mbit/s
95th percentile per-packet one-way delay: 202.003 ms
Loss rate: 15.96%

Run 3: Report of Verus — Data Link

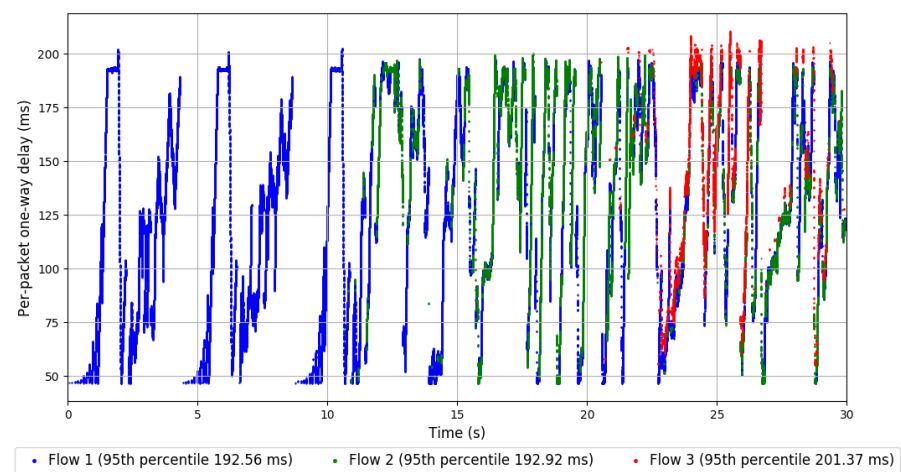
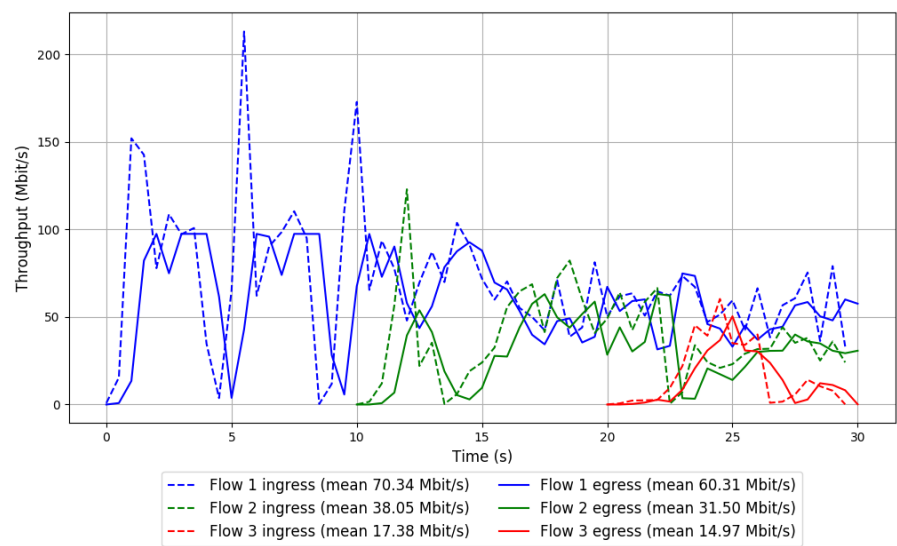


Run 4: Statistics of Verus

Start at: 2019-03-27 02:38:00
End at: 2019-03-27 02:38:30
Local clock offset: -3.377 ms
Remote clock offset: -10.864 ms

Below is generated by plot.py at 2019-03-27 03:27:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 192.726 ms
Loss rate: 14.92%
-- Flow 1:
Average throughput: 60.31 Mbit/s
95th percentile per-packet one-way delay: 192.565 ms
Loss rate: 14.05%
-- Flow 2:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 192.920 ms
Loss rate: 17.52%
-- Flow 3:
Average throughput: 14.97 Mbit/s
95th percentile per-packet one-way delay: 201.374 ms
Loss rate: 14.05%

Run 4: Report of Verus — Data Link

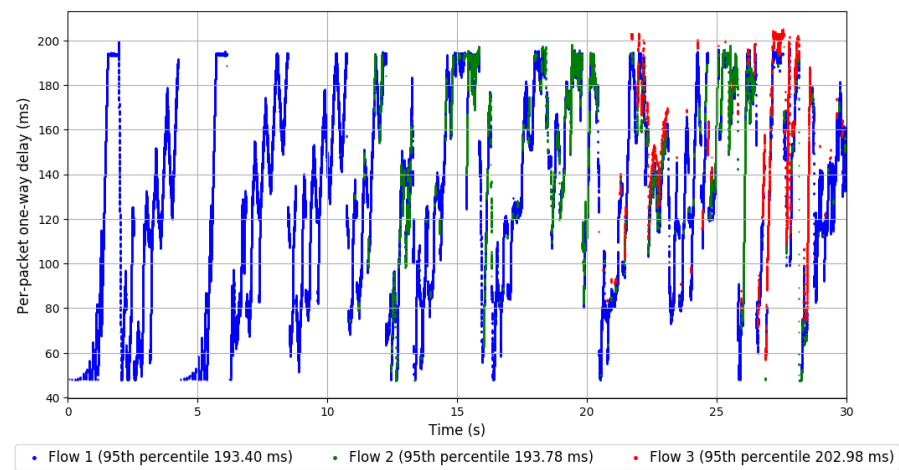
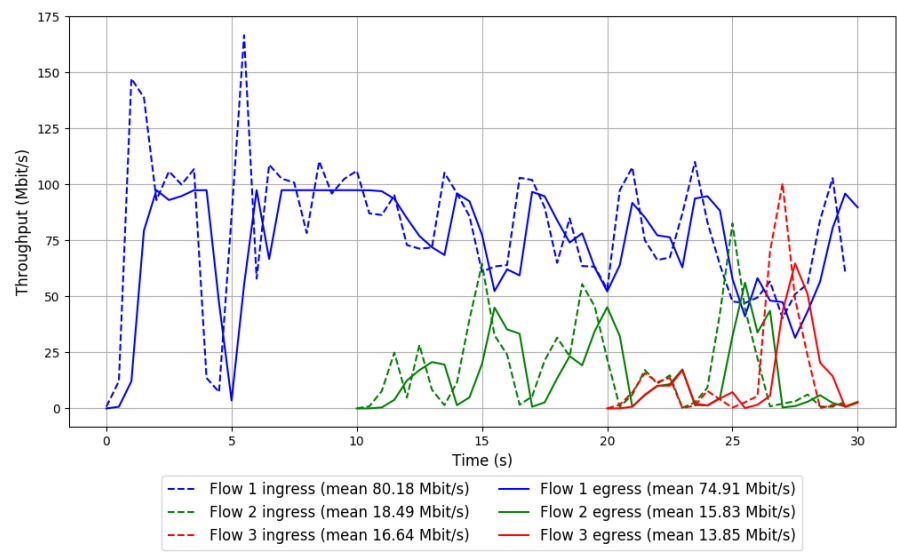


Run 5: Statistics of Verus

Start at: 2019-03-27 03:04:52
End at: 2019-03-27 03:05:22
Local clock offset: 1.187 ms
Remote clock offset: -10.368 ms

Below is generated by plot.py at 2019-03-27 03:27:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 193.675 ms
Loss rate: 7.86%
-- Flow 1:
Average throughput: 74.91 Mbit/s
95th percentile per-packet one-way delay: 193.401 ms
Loss rate: 6.23%
-- Flow 2:
Average throughput: 15.83 Mbit/s
95th percentile per-packet one-way delay: 193.775 ms
Loss rate: 14.55%
-- Flow 3:
Average throughput: 13.85 Mbit/s
95th percentile per-packet one-way delay: 202.983 ms
Loss rate: 17.04%

Run 5: Report of Verus — Data Link

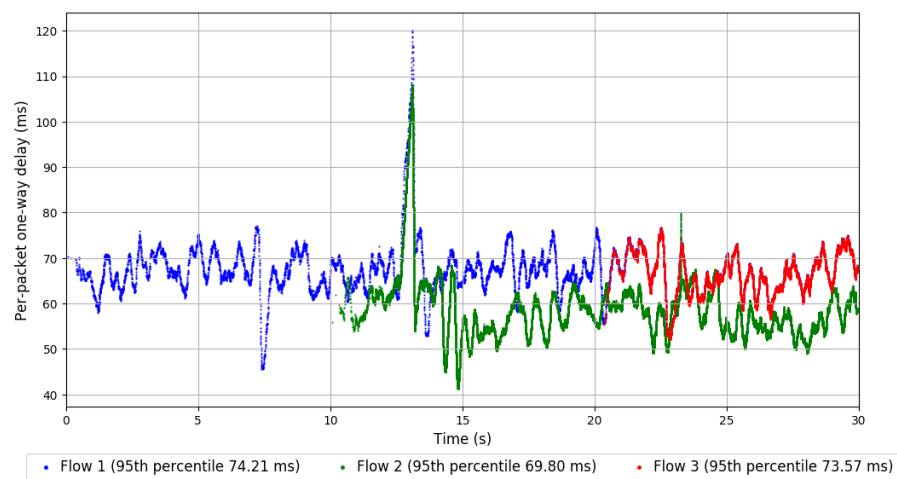
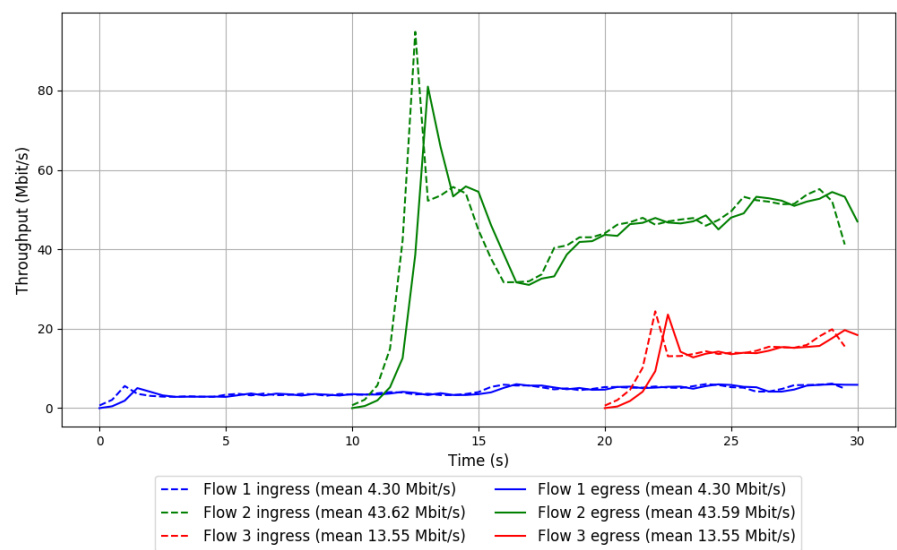


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-27 01:12:29
End at: 2019-03-27 01:12:59
Local clock offset: 0.676 ms
Remote clock offset: -21.584 ms

Below is generated by plot.py at 2019-03-27 03:27:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 73.363 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 74.206 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 43.59 Mbit/s
95th percentile per-packet one-way delay: 69.798 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 13.55 Mbit/s
95th percentile per-packet one-way delay: 73.566 ms
Loss rate: 0.02%

Run 1: Report of PCC-Vivace — Data Link

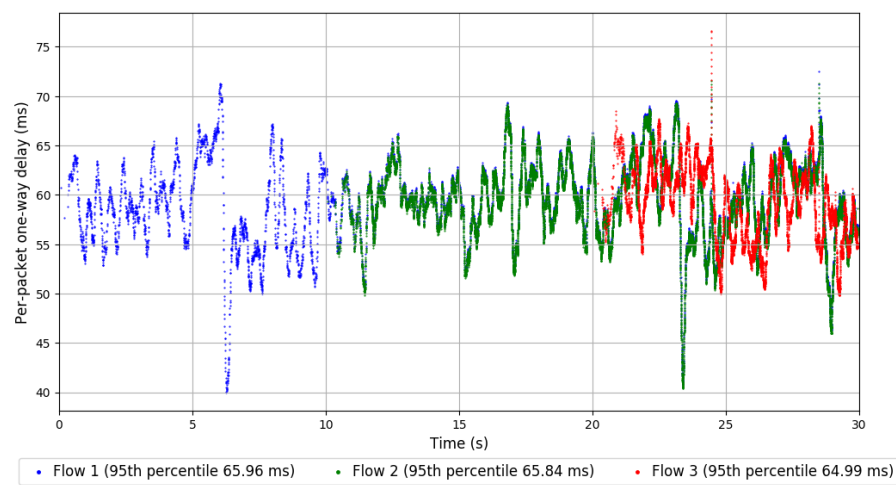
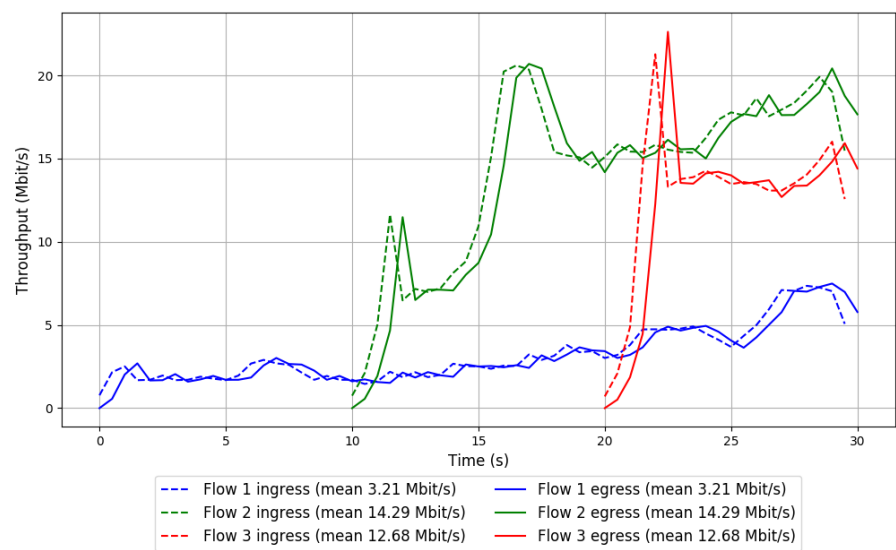


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-27 01:39:23
End at: 2019-03-27 01:39:53
Local clock offset: 0.861 ms
Remote clock offset: -19.973 ms

Below is generated by plot.py at 2019-03-27 03:27:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.90 Mbit/s
95th percentile per-packet one-way delay: 65.613 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 65.956 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 14.29 Mbit/s
95th percentile per-packet one-way delay: 65.845 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 64.992 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

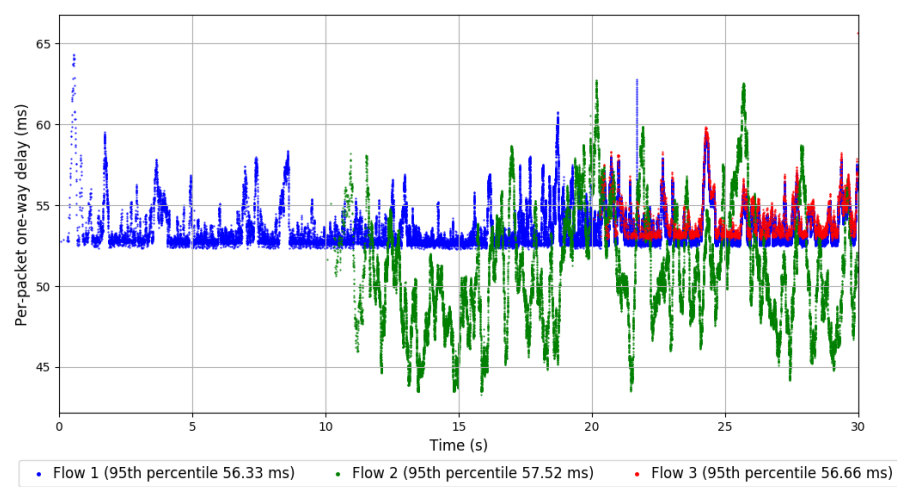
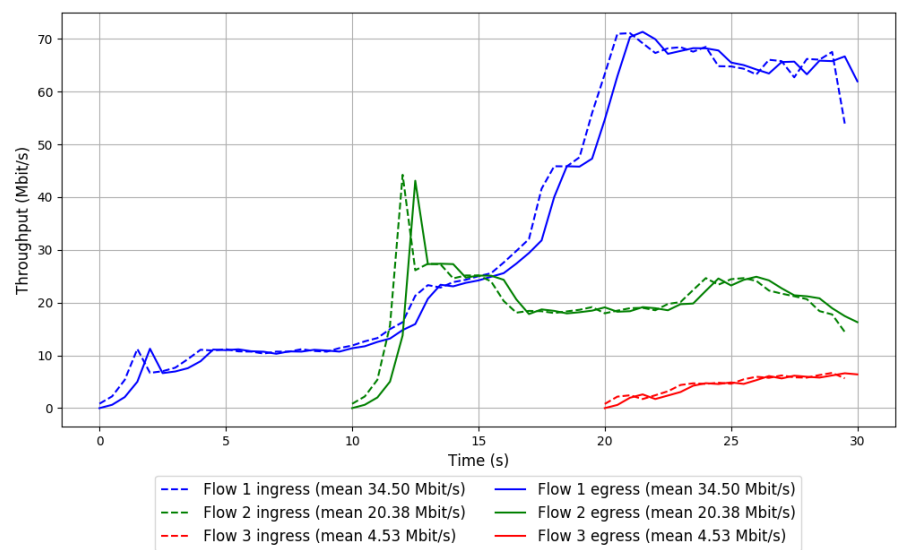


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-27 02:06:03
End at: 2019-03-27 02:06:33
Local clock offset: -1.678 ms
Remote clock offset: -15.185 ms

Below is generated by plot.py at 2019-03-27 03:27:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 56.619 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 56.332 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.38 Mbit/s
95th percentile per-packet one-way delay: 57.517 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 56.662 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

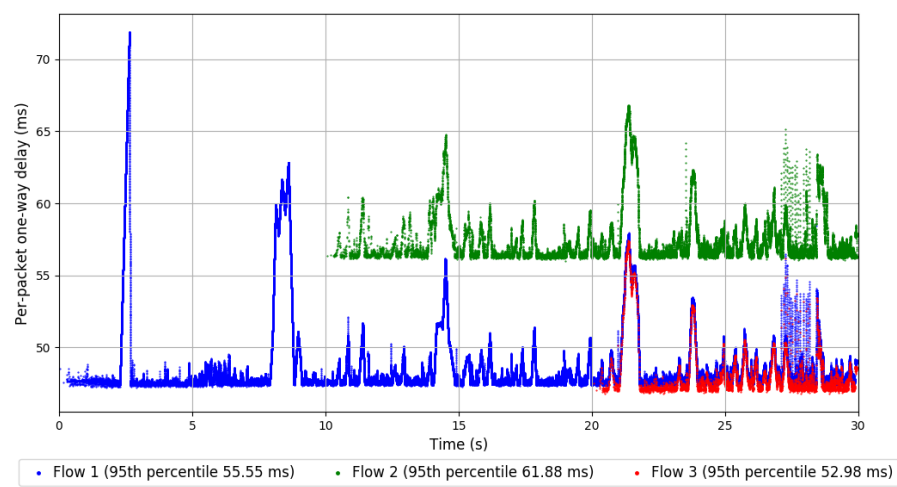
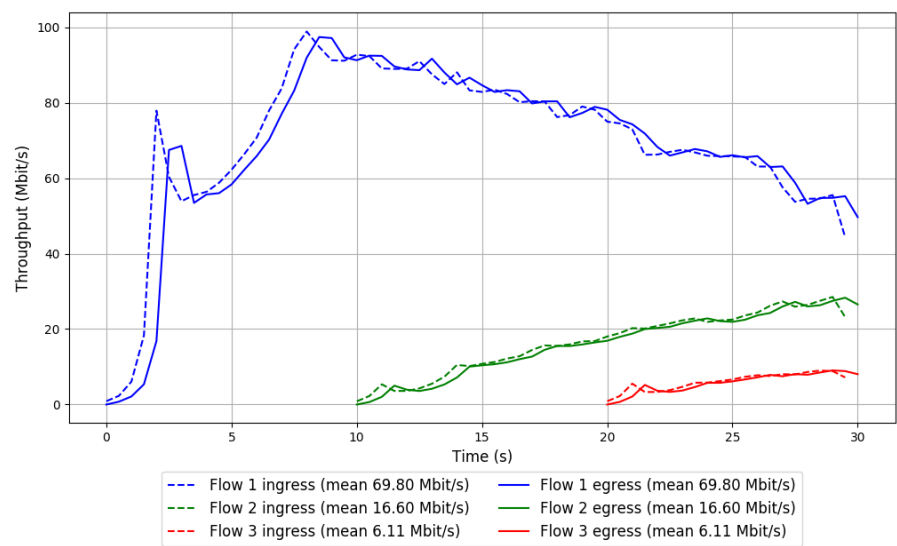


Run 4: Statistics of PCC-Vivace

Start at: 2019-03-27 02:32:48
End at: 2019-03-27 02:33:18
Local clock offset: -2.946 ms
Remote clock offset: -10.418 ms

Below is generated by plot.py at 2019-03-27 03:28:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.84 Mbit/s
95th percentile per-packet one-way delay: 58.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.80 Mbit/s
95th percentile per-packet one-way delay: 55.553 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.60 Mbit/s
95th percentile per-packet one-way delay: 61.884 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.11 Mbit/s
95th percentile per-packet one-way delay: 52.978 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

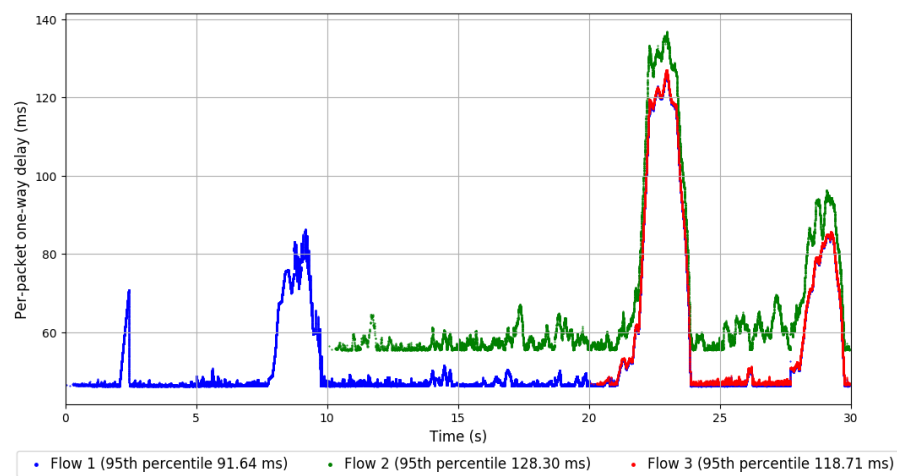
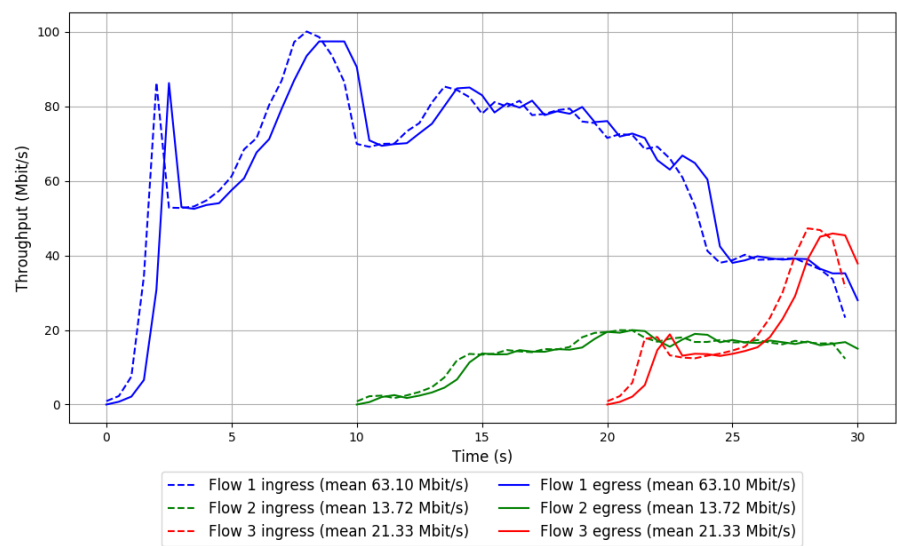


Run 5: Statistics of PCC-Vivace

Start at: 2019-03-27 02:59:35
End at: 2019-03-27 03:00:05
Local clock offset: 0.62 ms
Remote clock offset: -11.495 ms

Below is generated by plot.py at 2019-03-27 03:28:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 107.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.10 Mbit/s
95th percentile per-packet one-way delay: 91.639 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.72 Mbit/s
95th percentile per-packet one-way delay: 128.302 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.33 Mbit/s
95th percentile per-packet one-way delay: 118.706 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

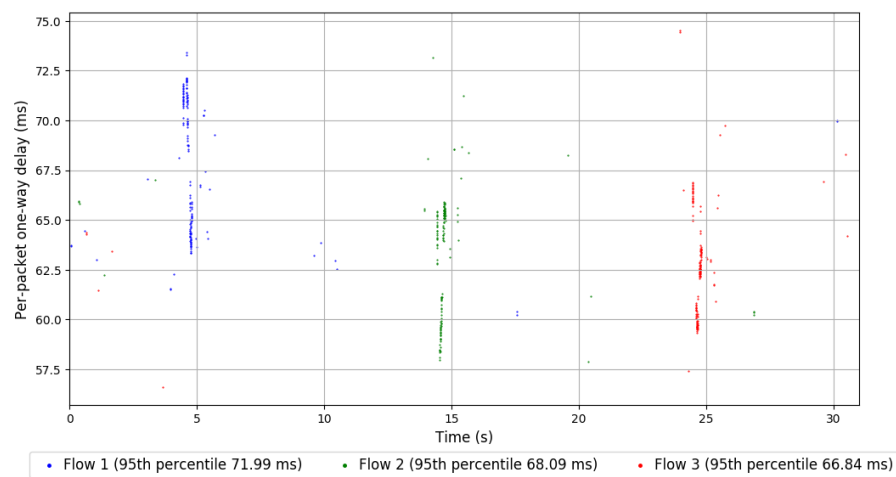
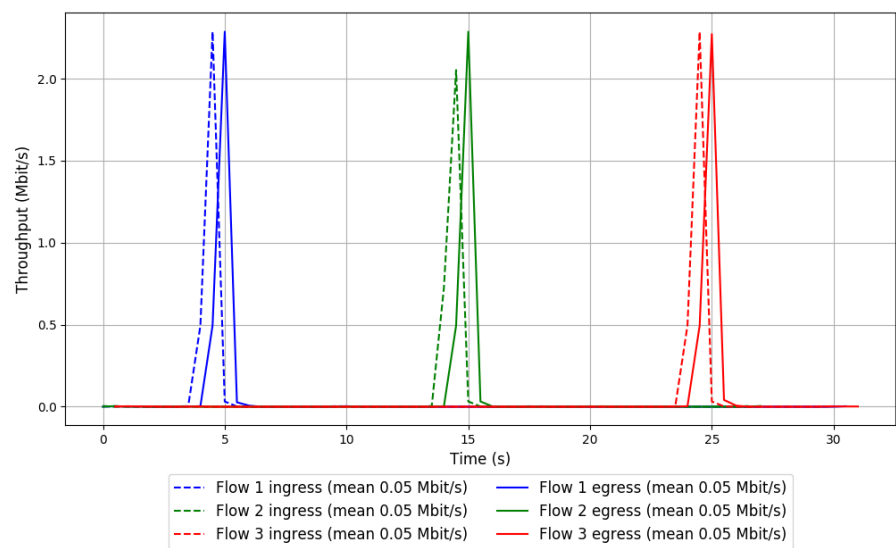


Run 1: Statistics of WebRTC media

Start at: 2019-03-27 01:29:07
End at: 2019-03-27 01:29:37
Local clock offset: 0.793 ms
Remote clock offset: -15.738 ms

Below is generated by plot.py at 2019-03-27 03:28:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 71.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 71.989 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.094 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.840 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

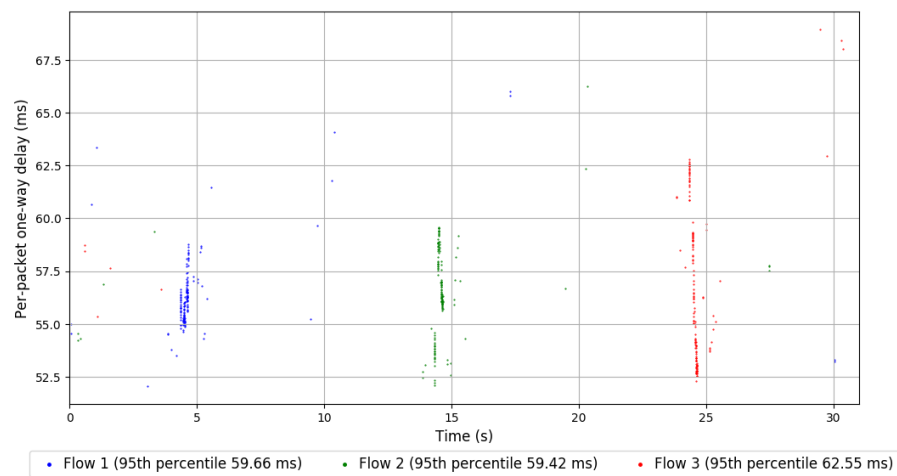
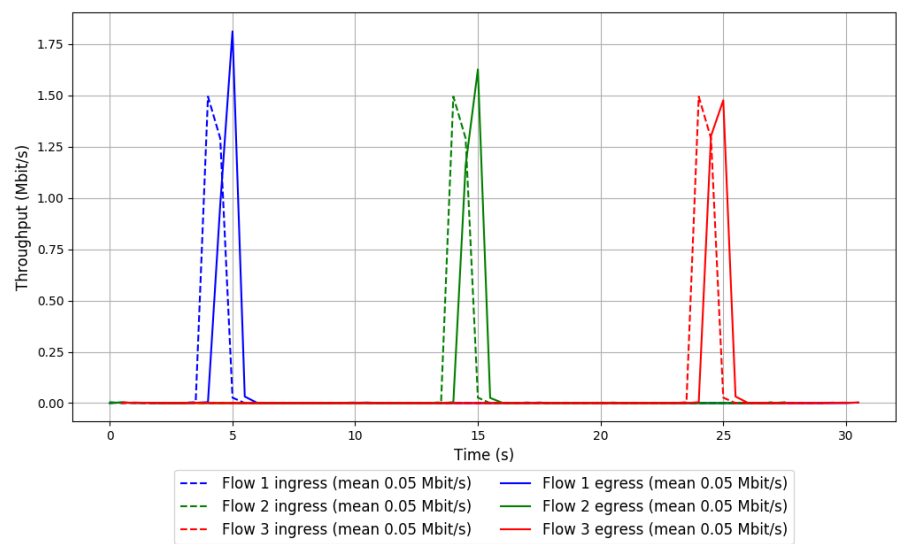


Run 2: Statistics of WebRTC media

Start at: 2019-03-27 01:55:51
End at: 2019-03-27 01:56:21
Local clock offset: -1.161 ms
Remote clock offset: -15.847 ms

Below is generated by plot.py at 2019-03-27 03:28:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 62.020 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.665 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.422 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.546 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

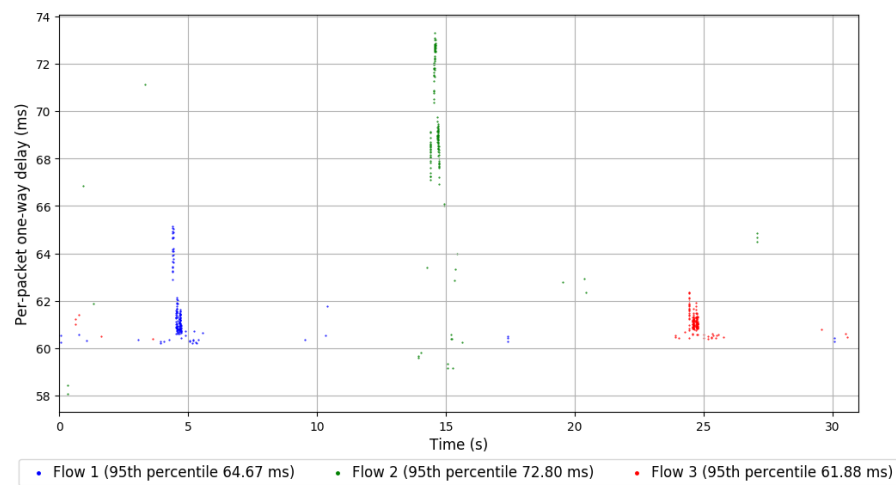
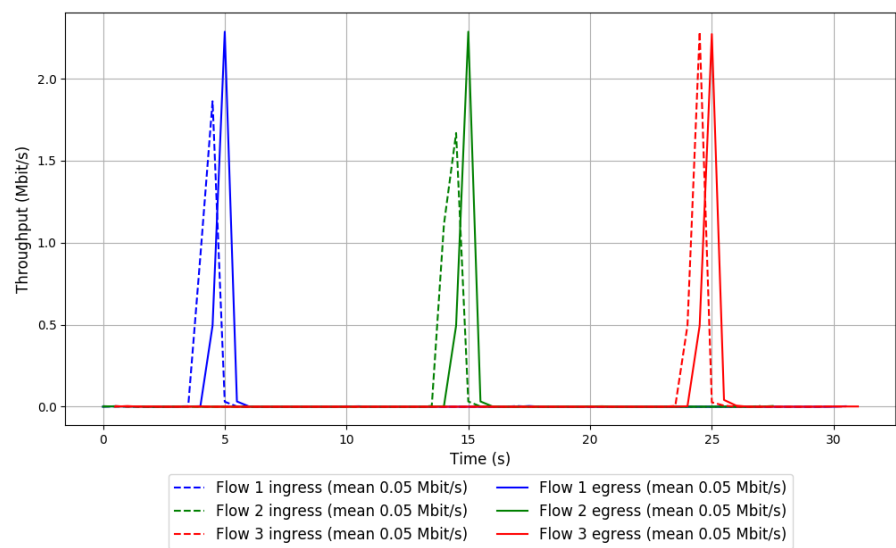


Run 3: Statistics of WebRTC media

Start at: 2019-03-27 02:22:37
End at: 2019-03-27 02:23:07
Local clock offset: -2.61 ms
Remote clock offset: -6.873 ms

Below is generated by plot.py at 2019-03-27 03:28:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 72.237 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.665 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 72.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.876 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-03-27 02:49:25

End at: 2019-03-27 02:49:55

Local clock offset: -1.915 ms

Remote clock offset: -9.96 ms

Below is generated by plot.py at 2019-03-27 03:28:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 58.005 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 58.528 ms

Loss rate: 0.00%

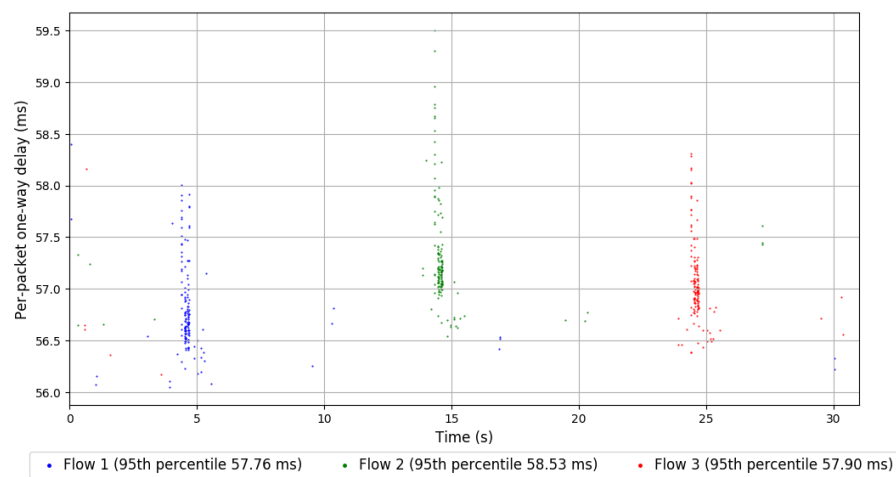
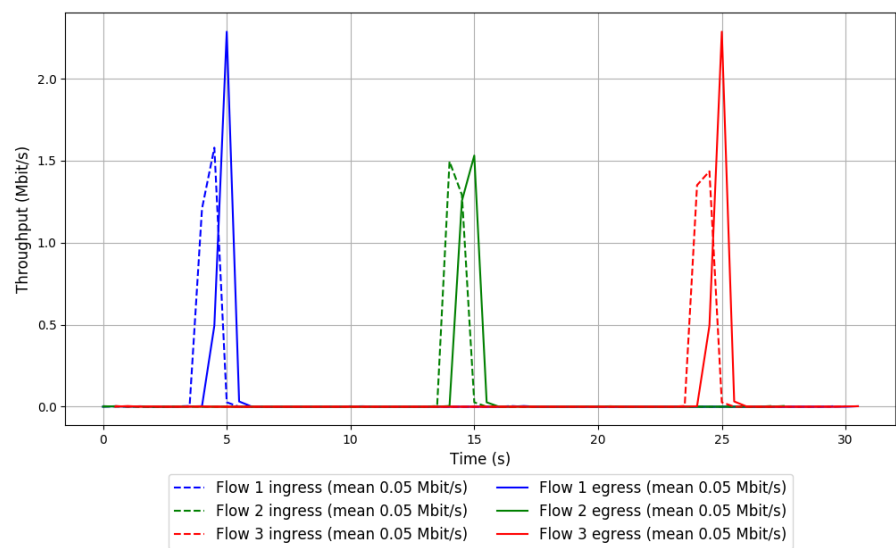
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 57.899 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-27 03:16:19
End at: 2019-03-27 03:16:49
Local clock offset: 2.17 ms
Remote clock offset: -7.261 ms

Below is generated by plot.py at 2019-03-27 03:28:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 61.525 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 52.294 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.888 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 61.387 ms
Loss rate: 0.05%

Run 5: Report of WebRTC media — Data Link

