

Pantheon Report

Generated at 2019-01-21 14:48:13 (UTC).

Data path: AWS India 2 on **ens5** (*local*) → Saudi Arabia on **enp2s0** (*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 **nets.org.sg** and have been applied to correct the timestamps in logs.

System info:

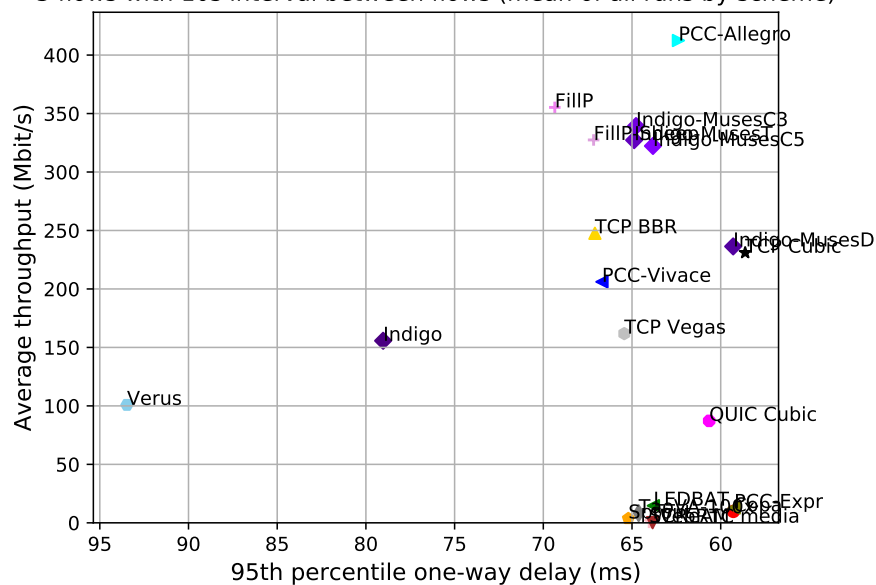
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

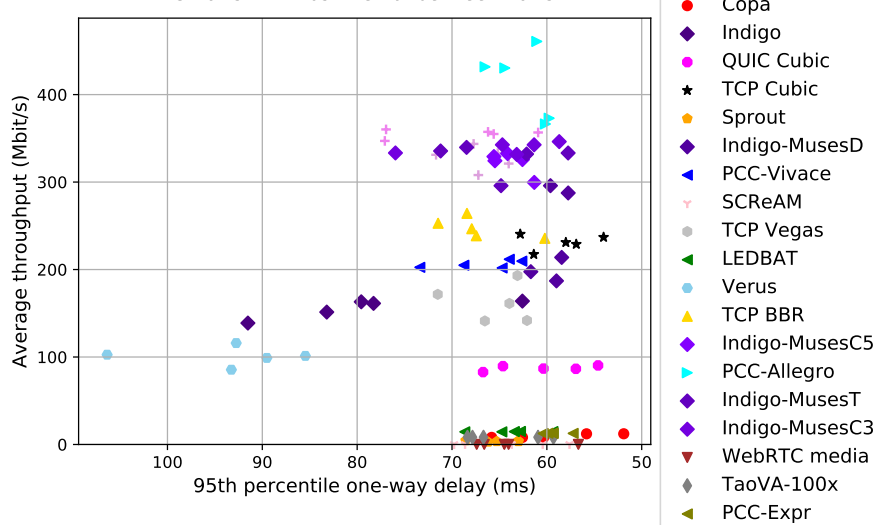
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
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 India 2 to Saudi Arabia, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 2 to Saudi Arabia, 5 runs of 30s each per sch
3 flows with 10s interval between flows



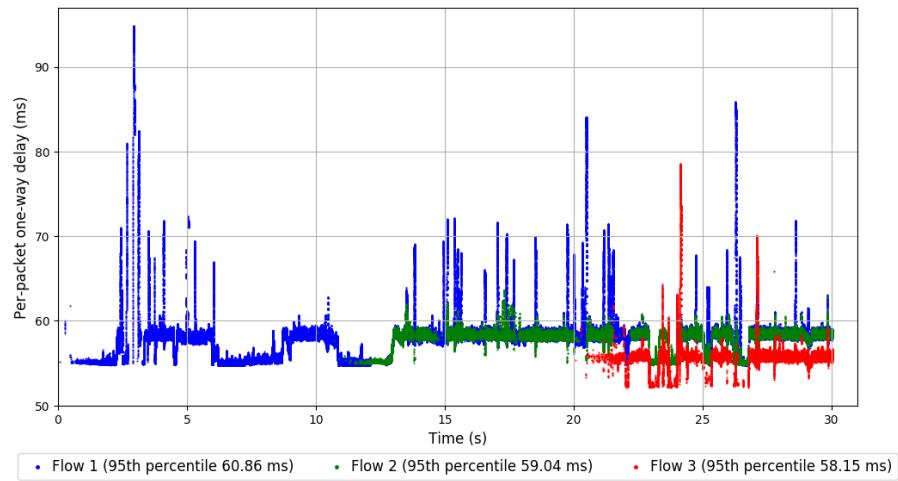
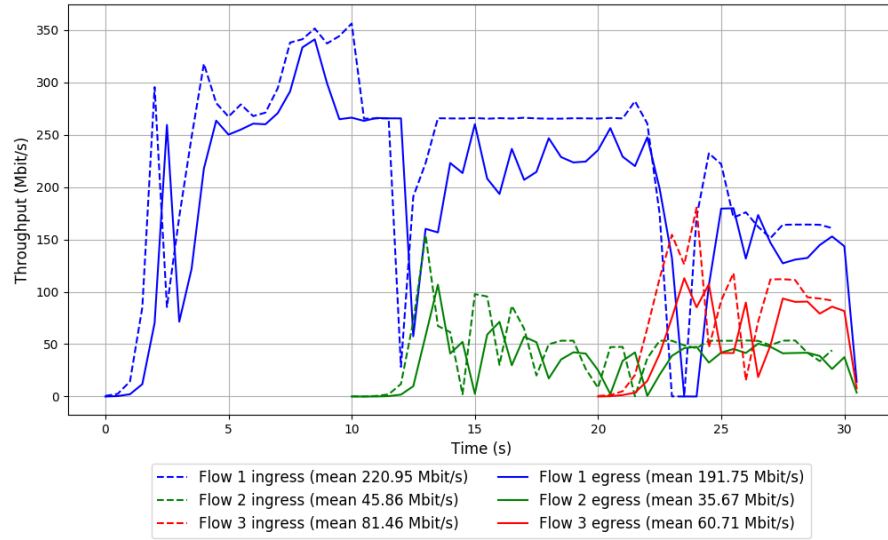
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	207.68	36.56	48.58	67.92	62.77	62.75	13.04	20.85	22.78
Copa	5	3.40	8.28	2.57	59.25	59.13	58.97	86.11	68.86	81.19
TCP Cubic	5	166.51	74.54	44.50	58.86	57.14	57.82	1.02	0.85	1.15
FillP	5	243.55	114.90	106.43	69.00	69.61	68.81	23.41	24.86	25.26
FillP-Sheep	5	233.68	99.85	82.61	66.84	67.03	66.53	14.49	11.52	10.60
Indigo	5	82.69	73.62	76.21	76.39	80.24	83.02	9.62	16.03	27.51
Indigo-MusesC3	5	330.42	9.08	10.24	65.27	60.71	60.42	13.79	9.59	9.36
Indigo-MusesC5	5	321.32	0.83	1.39	63.83	63.38	62.23	26.54	29.22	28.07
Indigo-MusesD	5	228.18	11.70	2.08	59.27	60.61	60.06	14.75	13.21	15.64
Indigo-MusesT	5	281.57	51.96	43.23	63.98	69.17	73.77	10.88	8.84	8.26
LEDBAT	5	9.44	6.34	3.10	64.01	62.36	62.24	0.01	0.00	0.00
PCC-Allegro	5	356.64	34.03	100.87	62.23	62.47	61.91	6.43	3.08	5.61
PCC-Expr	5	8.15	4.85	4.13	59.23	59.25	59.26	33.77	35.75	38.14
QUIC Cubic	5	51.64	39.00	29.94	58.94	61.33	62.77	0.00	0.00	0.01
SCReAM	5	0.21	0.21	0.22	62.56	63.24	63.69	0.10	0.05	0.00
Sprout	5	2.16	1.77	1.17	64.99	65.19	63.86	0.03	0.12	0.00
TaoVA-100x	5	0.00	9.47	5.92	59.69	66.17	60.24	95.92	29.84	25.34
TCP Vegas	5	103.40	59.75	55.92	64.83	64.70	68.36	1.46	1.87	3.40
Verus	5	71.71	33.42	26.25	94.92	81.39	86.90	65.92	46.06	43.76
PCC-Vivace	5	181.41	30.13	14.10	66.75	65.52	65.93	1.41	0.75	0.75
WebRTC media	5	0.05	0.05	0.05	64.46	63.61	63.86	0.00	0.01	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-01-21 11:10:42
End at: 2019-01-21 11:11:13
Local clock offset: 1.371 ms
Remote clock offset: -45.443 ms

Below is generated by plot.py at 2019-01-21 14:23:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.70 Mbit/s
95th percentile per-packet one-way delay: 60.213 ms
Loss rate: 15.39%
-- Flow 1:
Average throughput: 191.75 Mbit/s
95th percentile per-packet one-way delay: 60.857 ms
Loss rate: 13.21%
-- Flow 2:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 59.042 ms
Loss rate: 22.22%
-- Flow 3:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 58.152 ms
Loss rate: 25.48%

Run 1: Report of TCP BBR — Data Link

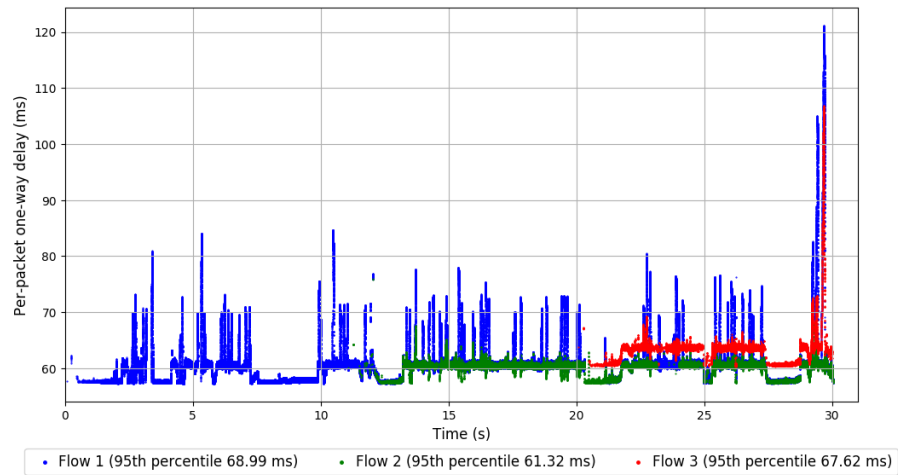
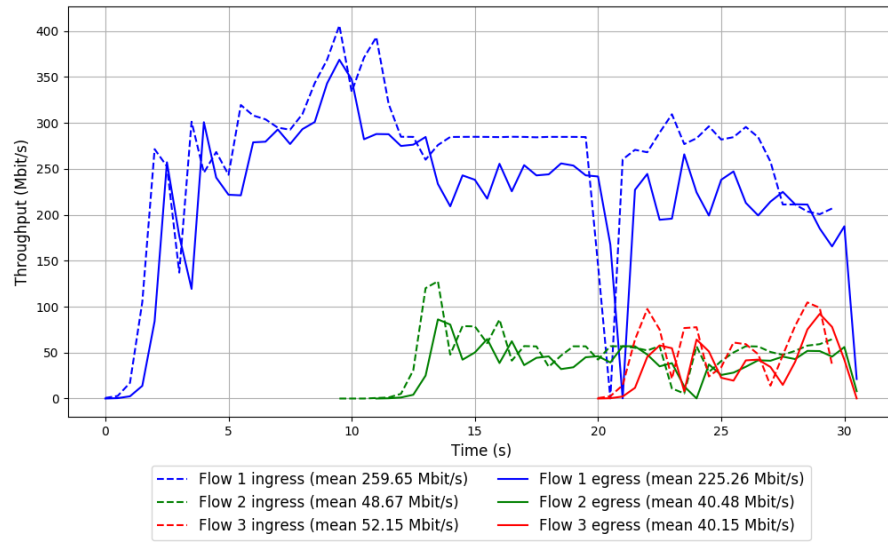


Run 2: Statistics of TCP BBR

Start at: 2019-01-21 11:46:34
End at: 2019-01-21 11:47:04
Local clock offset: -0.795 ms
Remote clock offset: -40.135 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 264.20 Mbit/s
95th percentile per-packet one-way delay: 68.423 ms
Loss rate: 14.60%
-- Flow 1:
Average throughput: 225.26 Mbit/s
95th percentile per-packet one-way delay: 68.990 ms
Loss rate: 13.24%
-- Flow 2:
Average throughput: 40.48 Mbit/s
95th percentile per-packet one-way delay: 61.324 ms
Loss rate: 21.01%
-- Flow 3:
Average throughput: 40.15 Mbit/s
95th percentile per-packet one-way delay: 67.621 ms
Loss rate: 23.02%

Run 2: Report of TCP BBR — Data Link

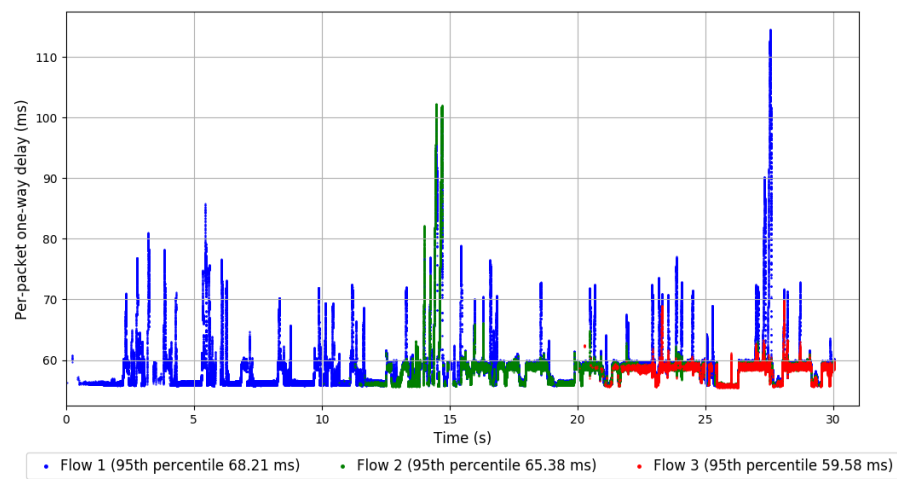
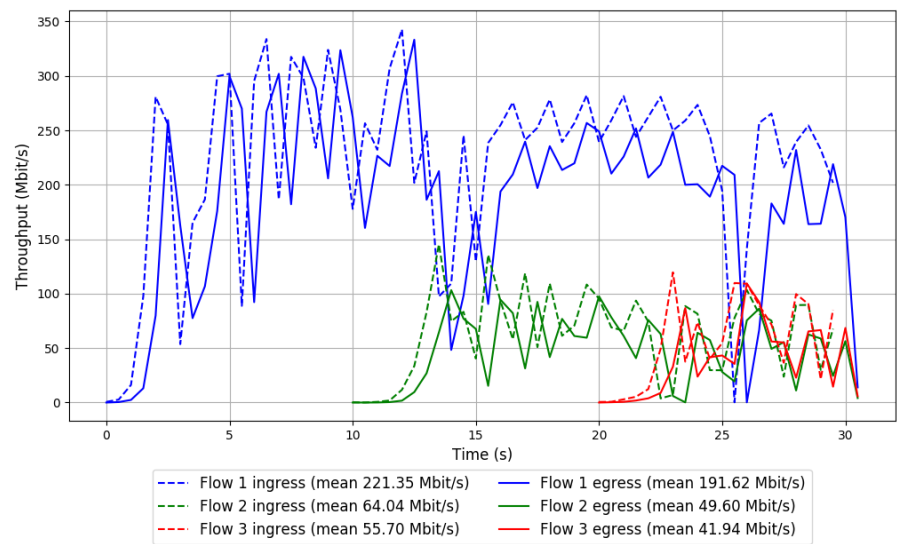


Run 3: Statistics of TCP BBR

Start at: 2019-01-21 12:32:39
End at: 2019-01-21 12:33:09
Local clock offset: -1.536 ms
Remote clock offset: -44.362 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 238.60 Mbit/s
95th percentile per-packet one-way delay: 67.437 ms
Loss rate: 15.54%
-- Flow 1:
Average throughput: 191.62 Mbit/s
95th percentile per-packet one-way delay: 68.212 ms
Loss rate: 13.42%
-- Flow 2:
Average throughput: 49.60 Mbit/s
95th percentile per-packet one-way delay: 65.376 ms
Loss rate: 22.54%
-- Flow 3:
Average throughput: 41.94 Mbit/s
95th percentile per-packet one-way delay: 59.584 ms
Loss rate: 24.70%

Run 3: Report of TCP BBR — Data Link

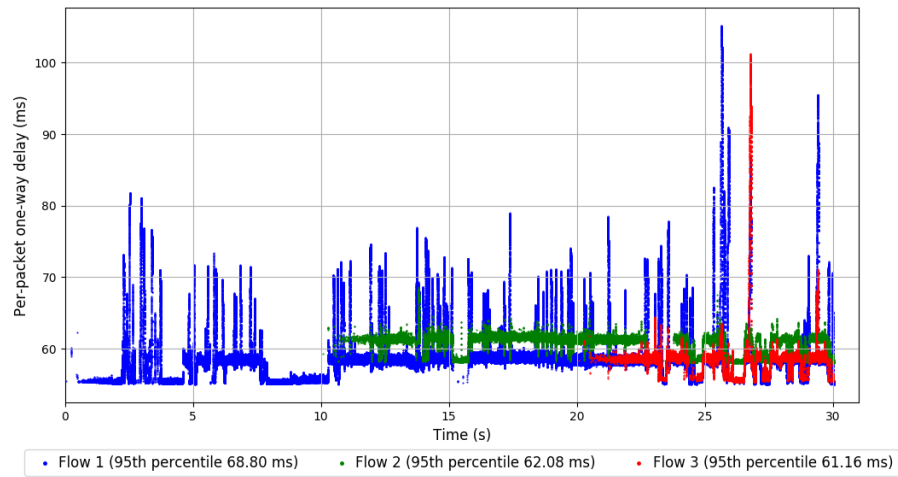
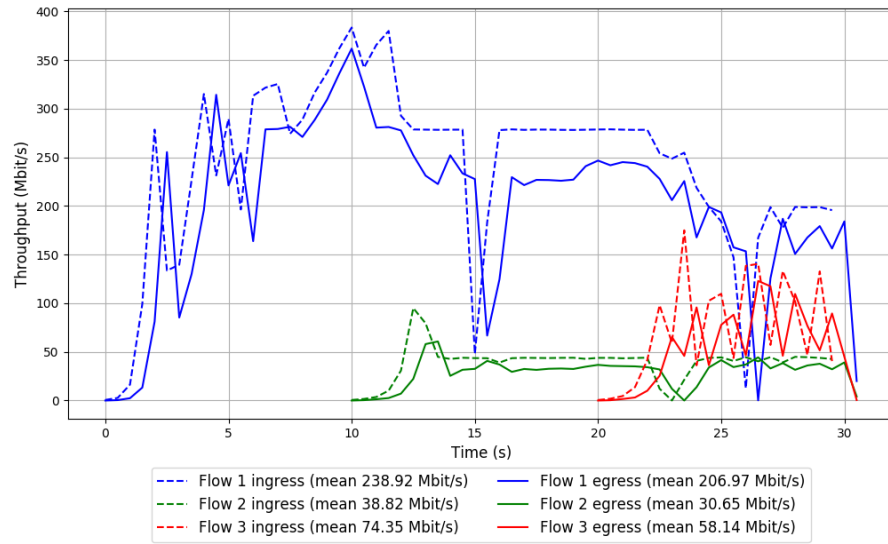


Run 4: Statistics of TCP BBR

Start at: 2019-01-21 13:25:35
End at: 2019-01-21 13:26:05
Local clock offset: -2.572 ms
Remote clock offset: -44.667 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 246.65 Mbit/s
95th percentile per-packet one-way delay: 67.919 ms
Loss rate: 14.78%
-- Flow 1:
Average throughput: 206.97 Mbit/s
95th percentile per-packet one-way delay: 68.796 ms
Loss rate: 13.37%
-- Flow 2:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 62.083 ms
Loss rate: 21.07%
-- Flow 3:
Average throughput: 58.14 Mbit/s
95th percentile per-packet one-way delay: 61.162 ms
Loss rate: 21.83%

Run 4: Report of TCP BBR — Data Link

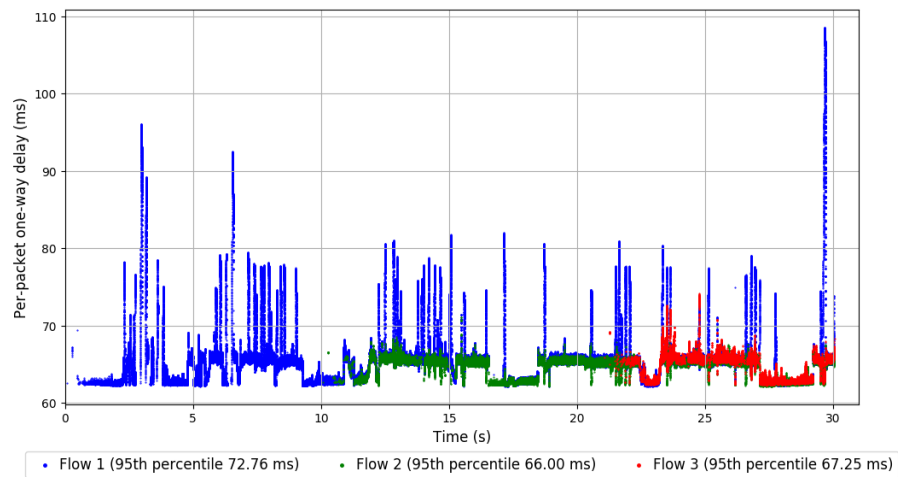
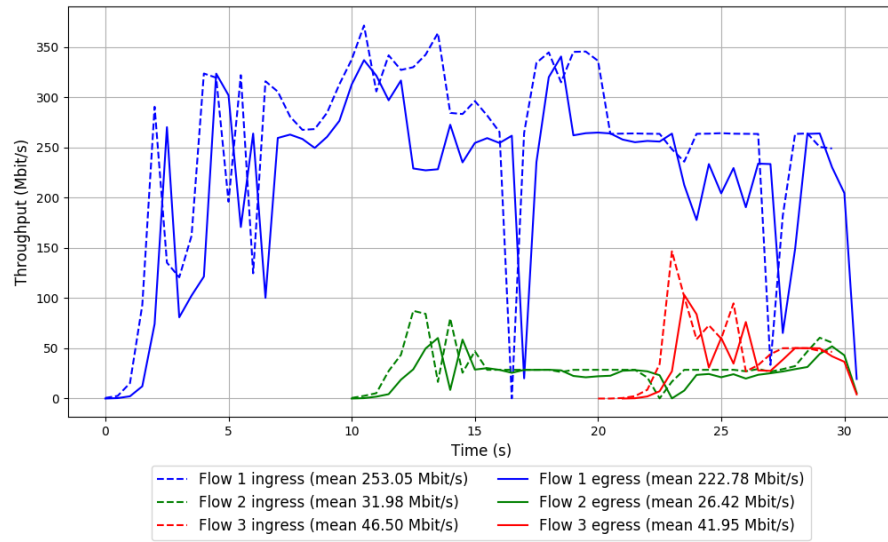


Run 5: Statistics of TCP BBR

Start at: 2019-01-21 14:01:37
End at: 2019-01-21 14:02:07
Local clock offset: -4.401 ms
Remote clock offset: -39.63 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 252.92 Mbit/s
95th percentile per-packet one-way delay: 71.465 ms
Loss rate: 12.72%
-- Flow 1:
Average throughput: 222.78 Mbit/s
95th percentile per-packet one-way delay: 72.756 ms
Loss rate: 11.95%
-- Flow 2:
Average throughput: 26.42 Mbit/s
95th percentile per-packet one-way delay: 66.002 ms
Loss rate: 17.39%
-- Flow 3:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 67.255 ms
Loss rate: 18.89%

Run 5: Report of TCP BBR — Data Link

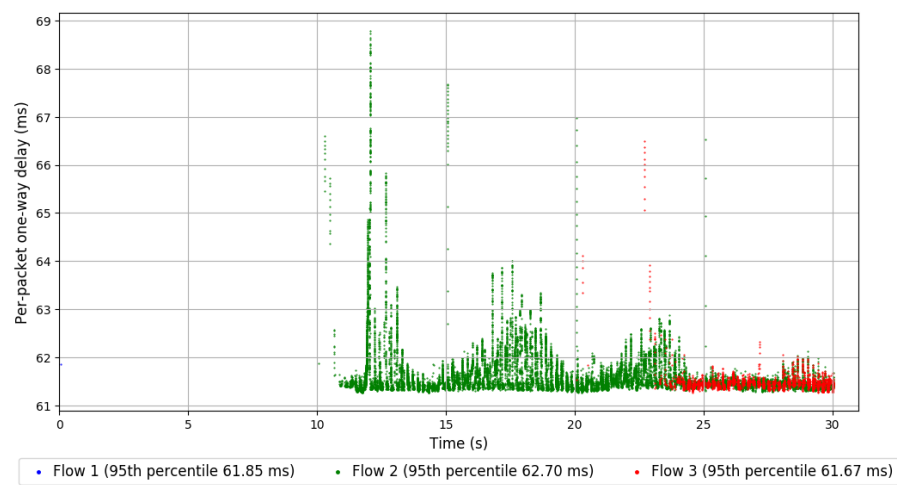
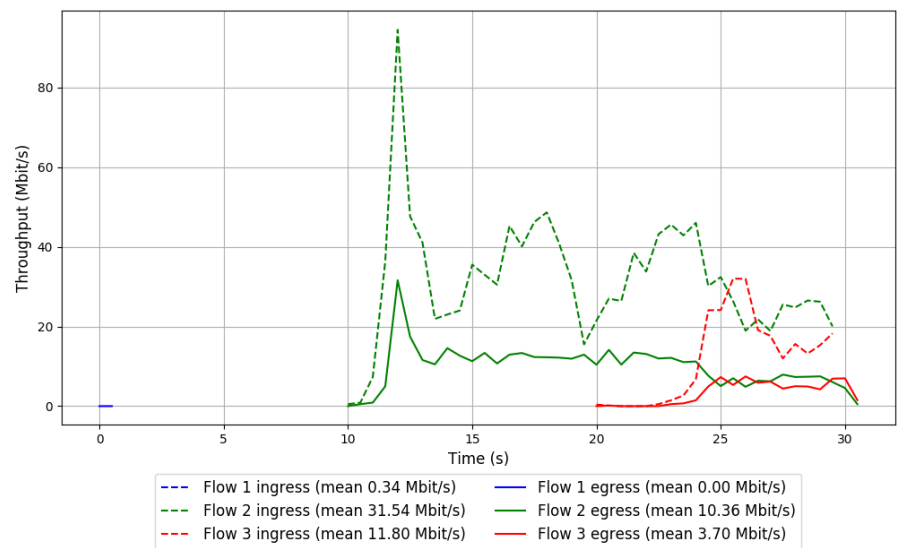


Run 1: Statistics of Copa

Start at: 2019-01-21 11:01:01
End at: 2019-01-21 11:01:31
Local clock offset: -1.597 ms
Remote clock offset: -39.729 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 62.572 ms
Loss rate: 67.38%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 61.854 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 62.698 ms
Loss rate: 67.15%
-- Flow 3:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 61.675 ms
Loss rate: 68.61%

Run 1: Report of Copa — Data Link

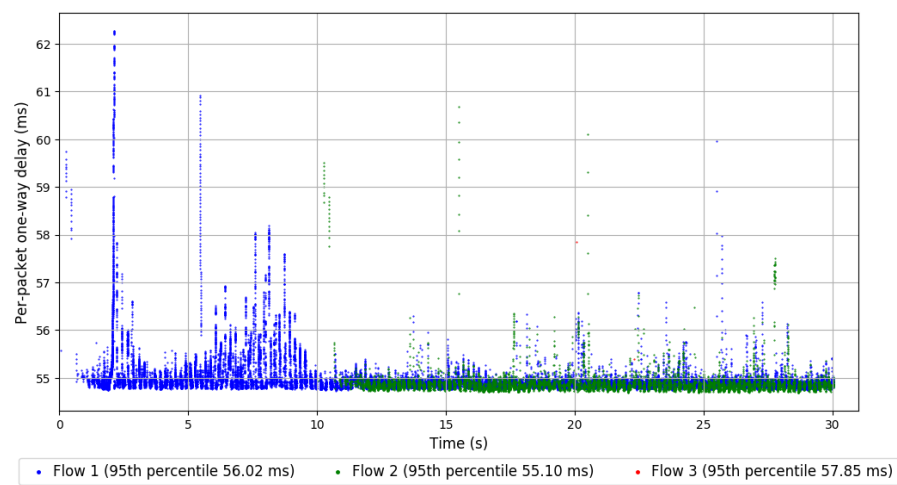
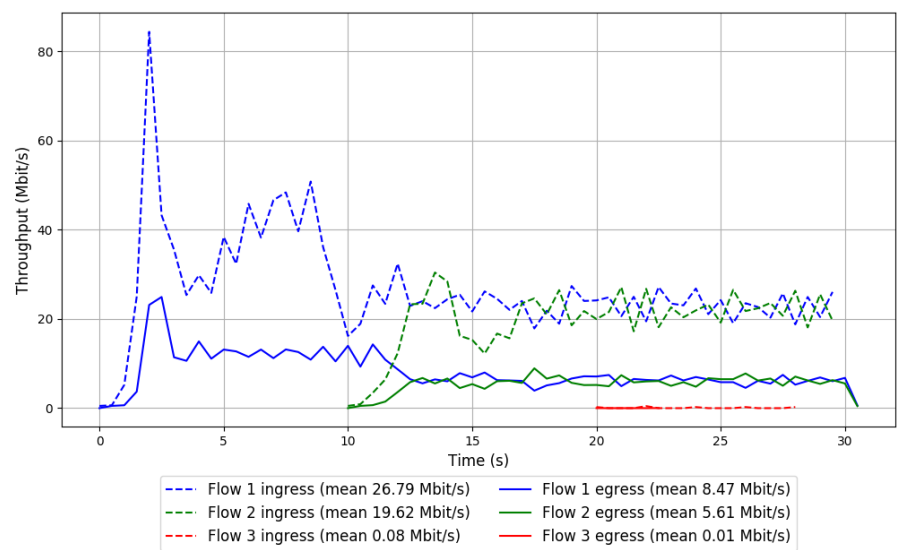


Run 2: Statistics of Copa

Start at: 2019-01-21 11:31:24
End at: 2019-01-21 11:31:54
Local clock offset: -2.08 ms
Remote clock offset: -44.459 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 55.818 ms
Loss rate: 69.40%
-- Flow 1:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 56.025 ms
Loss rate: 68.40%
-- Flow 2:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 55.102 ms
Loss rate: 71.41%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 57.855 ms
Loss rate: 98.16%

Run 2: Report of Copa — Data Link

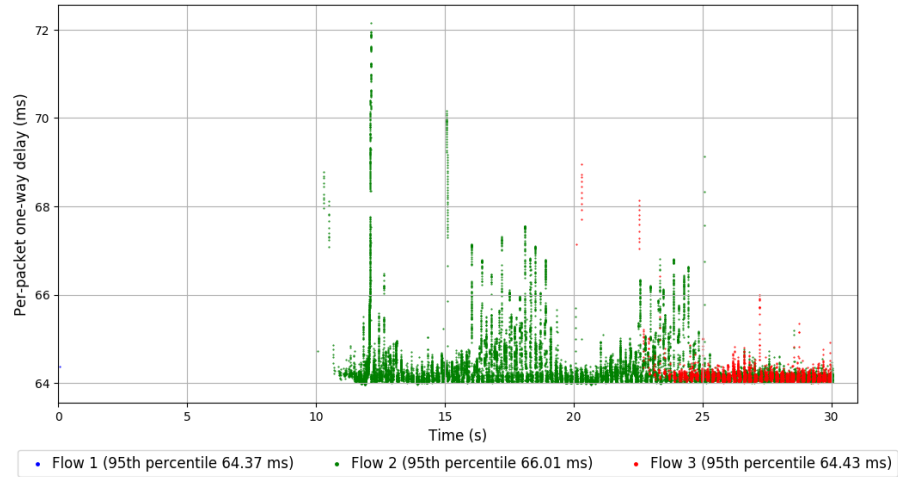
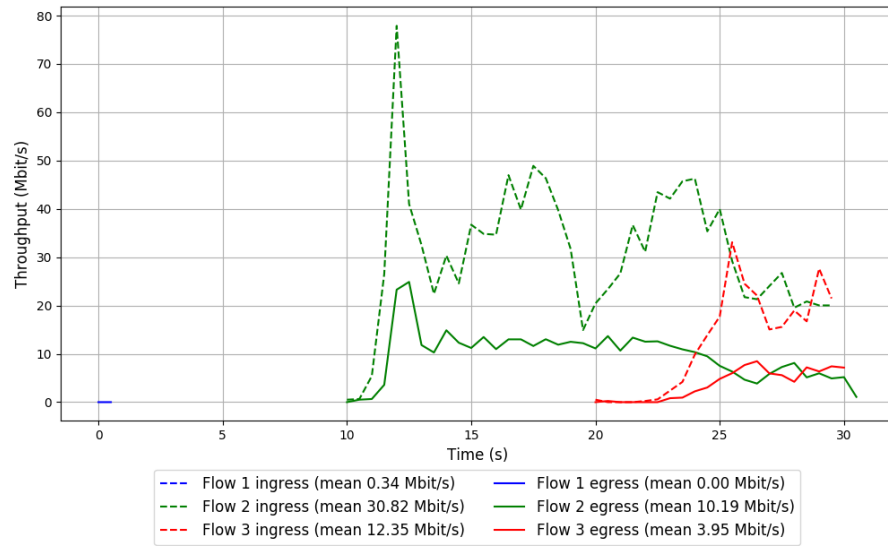


Run 3: Statistics of Copa

Start at: 2019-01-21 12:22:56
End at: 2019-01-21 12:23:26
Local clock offset: 1.345 ms
Remote clock offset: -33.277 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 65.820 ms
Loss rate: 67.11%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 64.367 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 66.007 ms
Loss rate: 66.92%
-- Flow 3:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 64.429 ms
Loss rate: 68.05%

Run 3: Report of Copa — Data Link

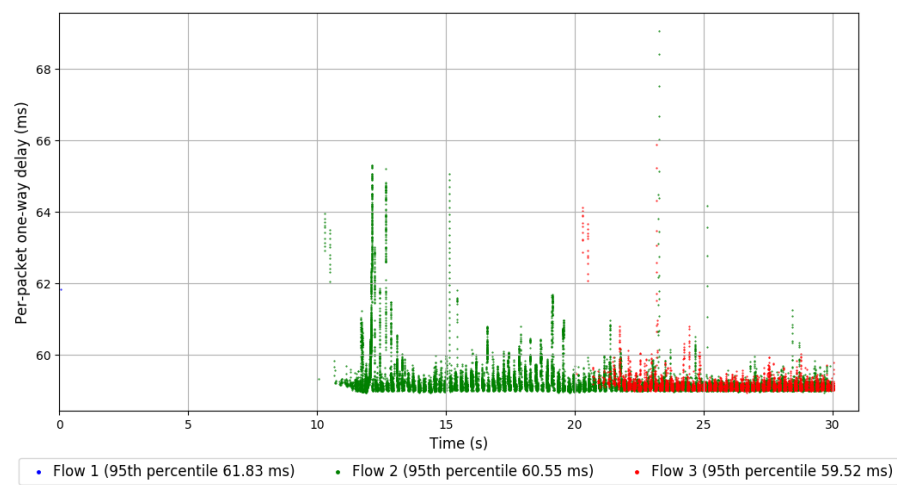
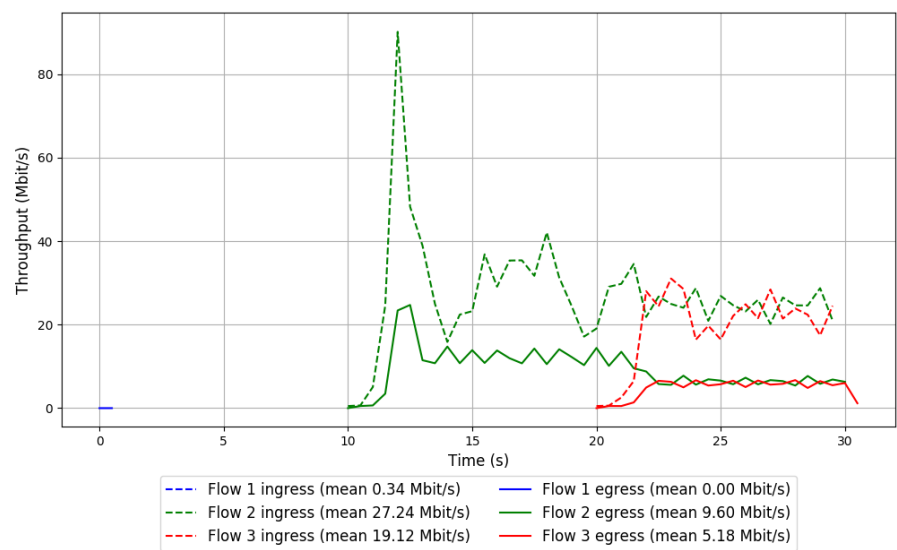


Run 4: Statistics of Copa

Start at: 2019-01-21 13:10:19
End at: 2019-01-21 13:10:49
Local clock offset: 0.732 ms
Remote clock offset: -39.652 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 60.335 ms
Loss rate: 66.88%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 61.828 ms
Loss rate: 98.60%
-- Flow 2:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 60.550 ms
Loss rate: 64.77%
-- Flow 3:
Average throughput: 5.18 Mbit/s
95th percentile per-packet one-way delay: 59.525 ms
Loss rate: 72.89%

Run 4: Report of Copa — Data Link

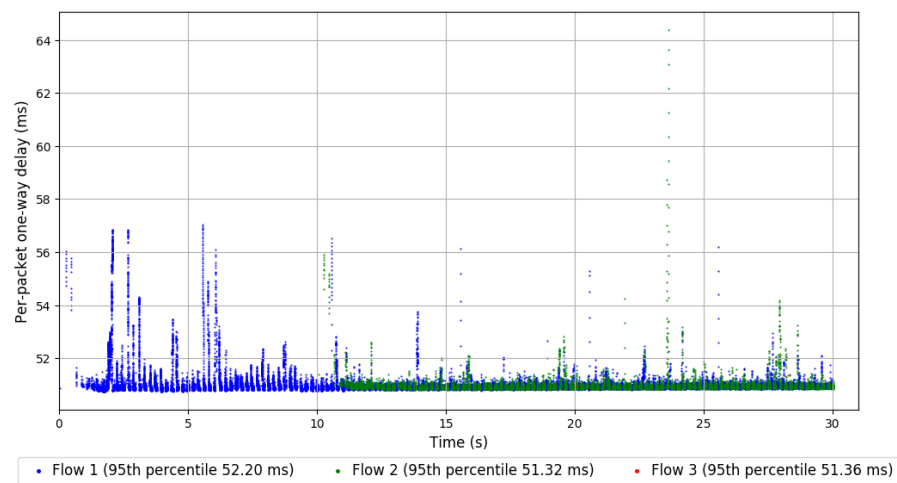
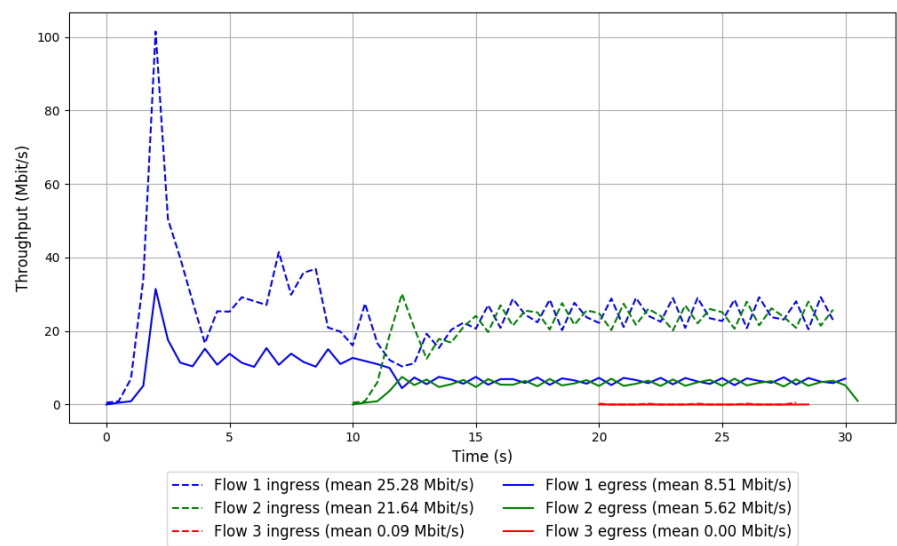


Run 5: Statistics of Copa

Start at: 2019-01-21 13:46:17
End at: 2019-01-21 13:46:47
Local clock offset: -0.92 ms
Remote clock offset: -46.615 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 51.895 ms
Loss rate: 69.15%
-- Flow 1:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 52.197 ms
Loss rate: 66.33%
-- Flow 2:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 51.316 ms
Loss rate: 74.03%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 51.360 ms
Loss rate: 98.22%

Run 5: Report of Copa — Data Link

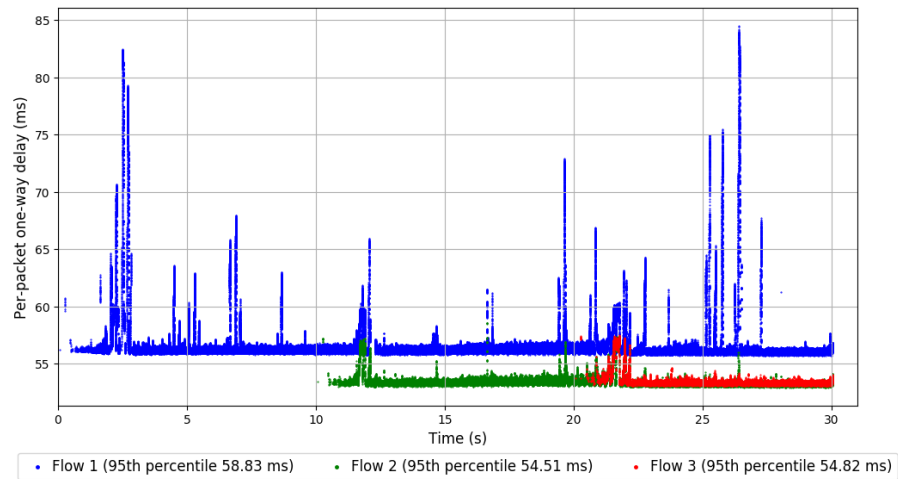
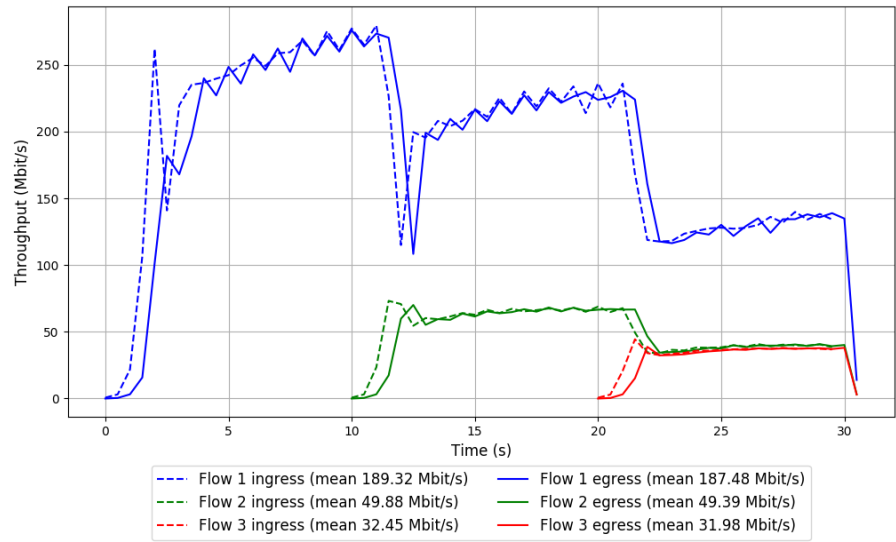


Run 1: Statistics of TCP Cubic

Start at: 2019-01-21 11:18:14
End at: 2019-01-21 11:18:44
Local clock offset: -0.429 ms
Remote clock offset: -45.701 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.01 Mbit/s
95th percentile per-packet one-way delay: 57.999 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 187.48 Mbit/s
95th percentile per-packet one-way delay: 58.833 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 54.514 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 54.817 ms
Loss rate: 1.46%

Run 1: Report of TCP Cubic — Data Link

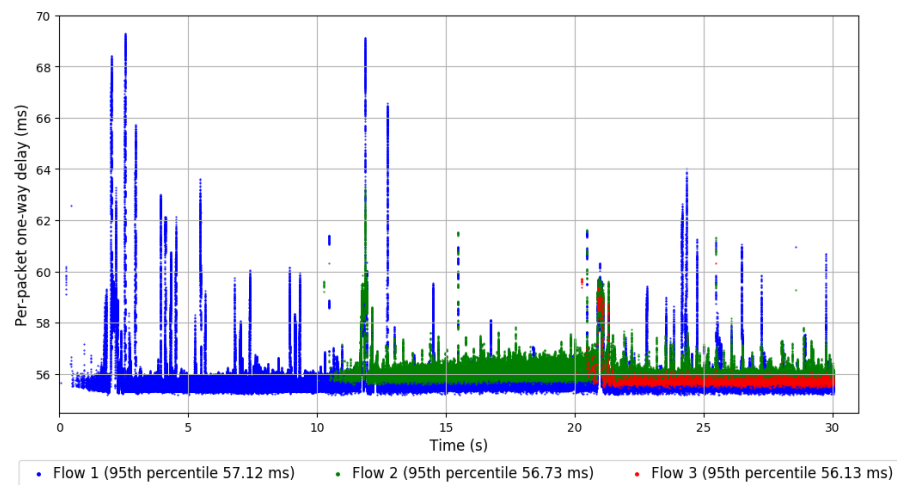
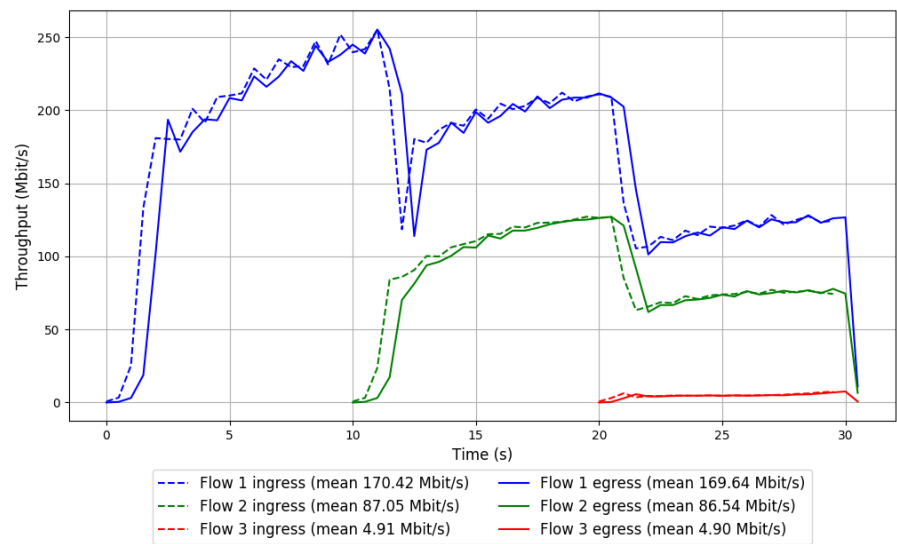


Run 2: Statistics of TCP Cubic

Start at: 2019-01-21 11:54:08
End at: 2019-01-21 11:54:38
Local clock offset: -3.055 ms
Remote clock offset: -45.283 ms

Below is generated by plot.py at 2019-01-21 14:24:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 228.95 Mbit/s
95th percentile per-packet one-way delay: 56.899 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 169.64 Mbit/s
95th percentile per-packet one-way delay: 57.125 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 86.54 Mbit/s
95th percentile per-packet one-way delay: 56.726 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 56.130 ms
Loss rate: 0.24%

Run 2: Report of TCP Cubic — Data Link

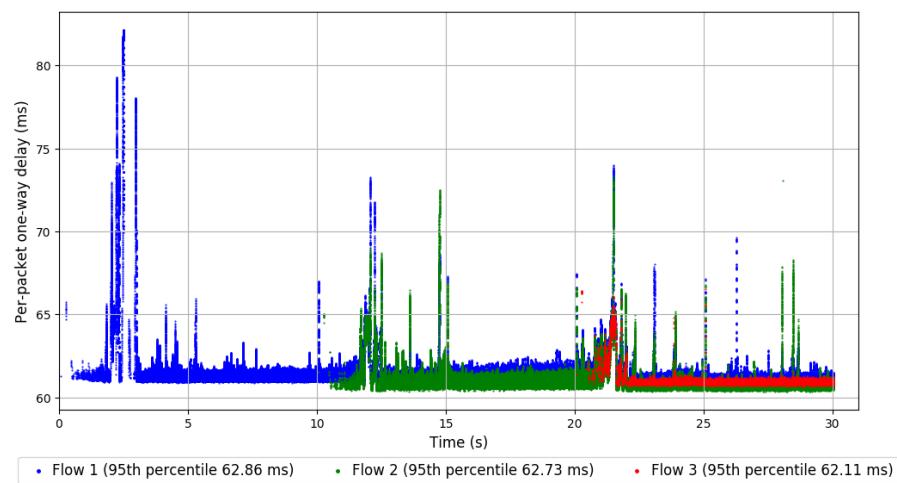
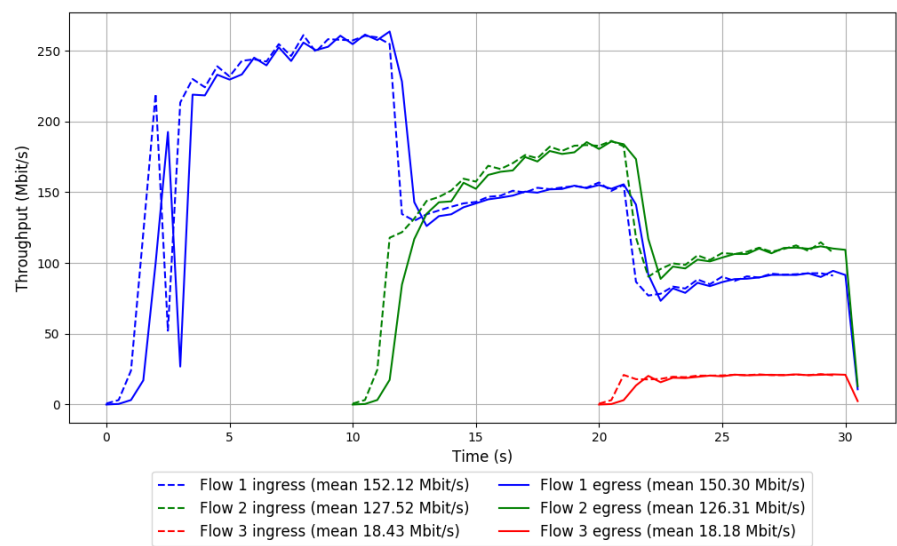


Run 3: Statistics of TCP Cubic

Start at: 2019-01-21 12:40:11
End at: 2019-01-21 12:40:41
Local clock offset: 0.728 ms
Remote clock offset: -37.18 ms

Below is generated by plot.py at 2019-01-21 14:24:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.50 Mbit/s
95th percentile per-packet one-way delay: 62.803 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 150.30 Mbit/s
95th percentile per-packet one-way delay: 62.861 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 126.31 Mbit/s
95th percentile per-packet one-way delay: 62.731 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 18.18 Mbit/s
95th percentile per-packet one-way delay: 62.114 ms
Loss rate: 1.34%

Run 3: Report of TCP Cubic — Data Link

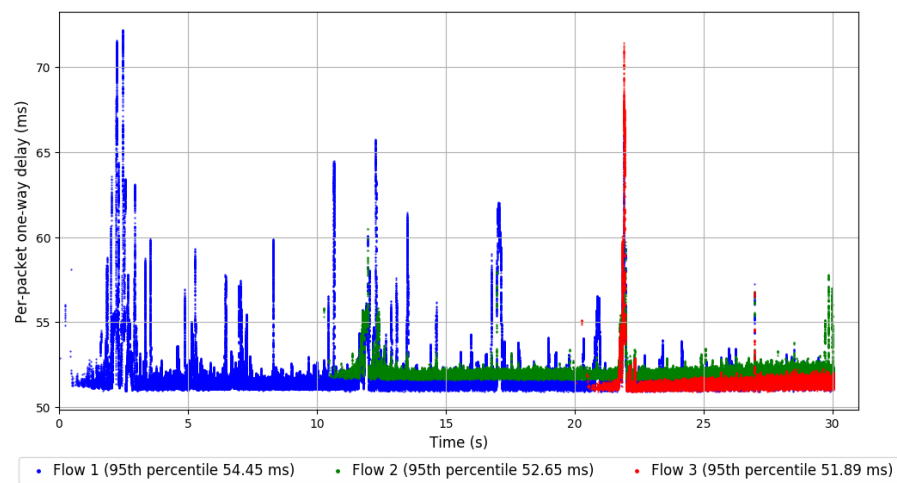
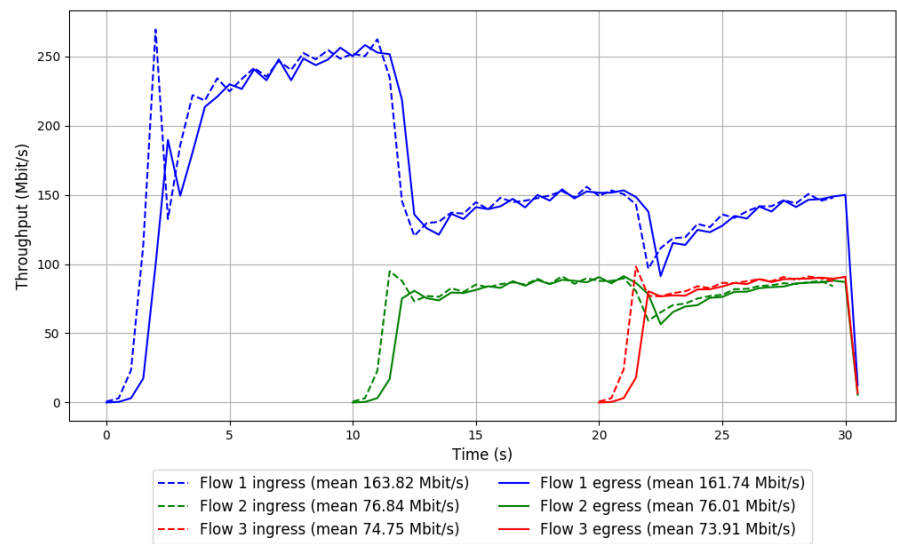


Run 4: Statistics of TCP Cubic

Start at: 2019-01-21 13:33:08
End at: 2019-01-21 13:33:38
Local clock offset: -1.534 ms
Remote clock offset: -47.376 ms

Below is generated by plot.py at 2019-01-21 14:25:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.94 Mbit/s
95th percentile per-packet one-way delay: 54.021 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 161.74 Mbit/s
95th percentile per-packet one-way delay: 54.451 ms
Loss rate: 1.27%
-- Flow 2:
Average throughput: 76.01 Mbit/s
95th percentile per-packet one-way delay: 52.649 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 73.91 Mbit/s
95th percentile per-packet one-way delay: 51.887 ms
Loss rate: 1.12%

Run 4: Report of TCP Cubic — Data Link

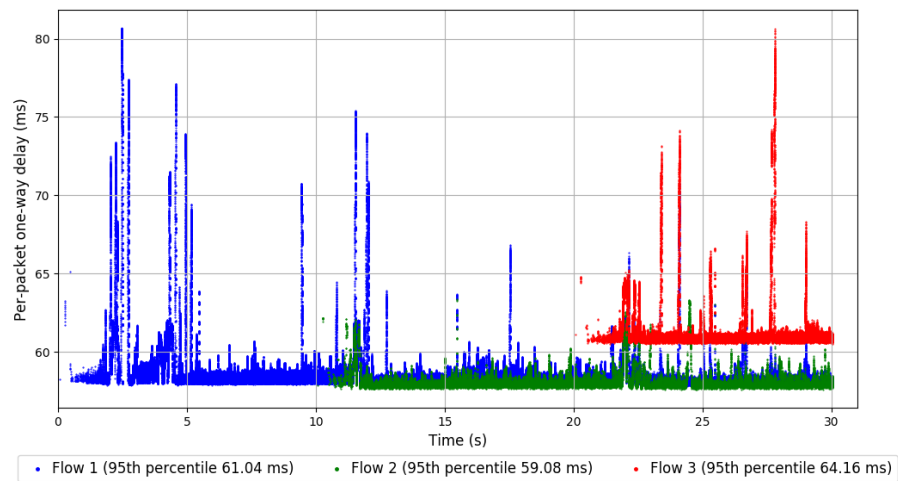
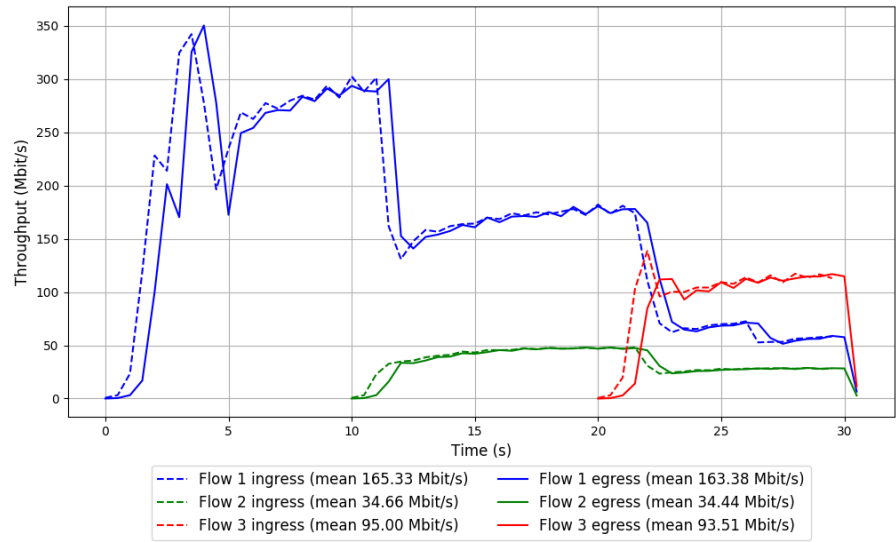


Run 5: Statistics of TCP Cubic

Start at: 2019-01-21 14:09:12
End at: 2019-01-21 14:09:42
Local clock offset: -2.867 ms
Remote clock offset: -42.109 ms

Below is generated by plot.py at 2019-01-21 14:25:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 217.40 Mbit/s
95th percentile per-packet one-way delay: 61.380 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 163.38 Mbit/s
95th percentile per-packet one-way delay: 61.041 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 34.44 Mbit/s
95th percentile per-packet one-way delay: 59.081 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 64.164 ms
Loss rate: 1.58%

Run 5: Report of TCP Cubic — Data Link

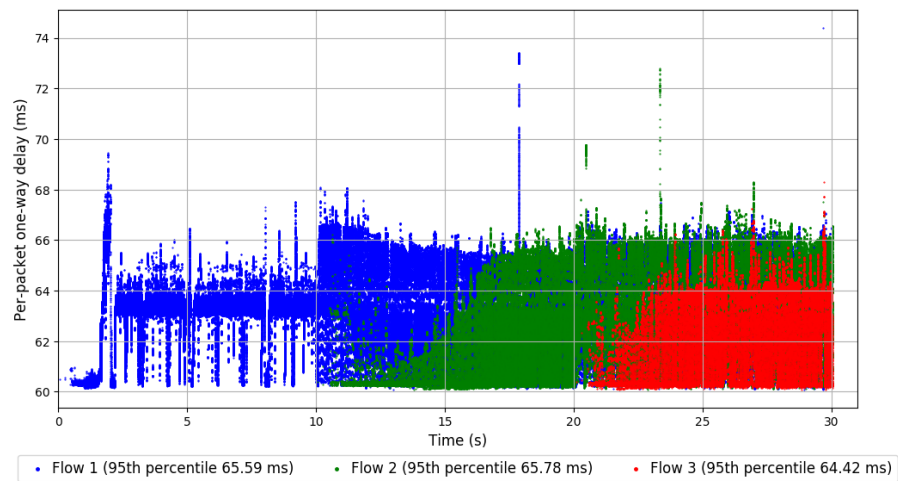
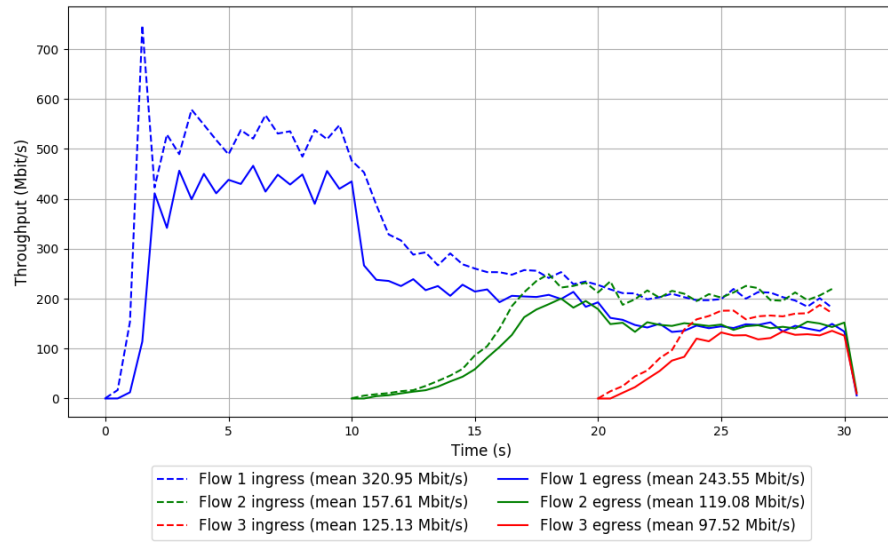


Run 1: Statistics of FillP

Start at: 2019-01-21 11:19:44
End at: 2019-01-21 11:20:14
Local clock offset: -3.137 ms
Remote clock offset: -41.037 ms

Below is generated by plot.py at 2019-01-21 14:28:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 354.97 Mbit/s
95th percentile per-packet one-way delay: 65.604 ms
Loss rate: 24.01%
-- Flow 1:
Average throughput: 243.55 Mbit/s
95th percentile per-packet one-way delay: 65.590 ms
Loss rate: 24.11%
-- Flow 2:
Average throughput: 119.08 Mbit/s
95th percentile per-packet one-way delay: 65.778 ms
Loss rate: 24.44%
-- Flow 3:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 64.420 ms
Loss rate: 22.07%

Run 1: Report of FillP — Data Link

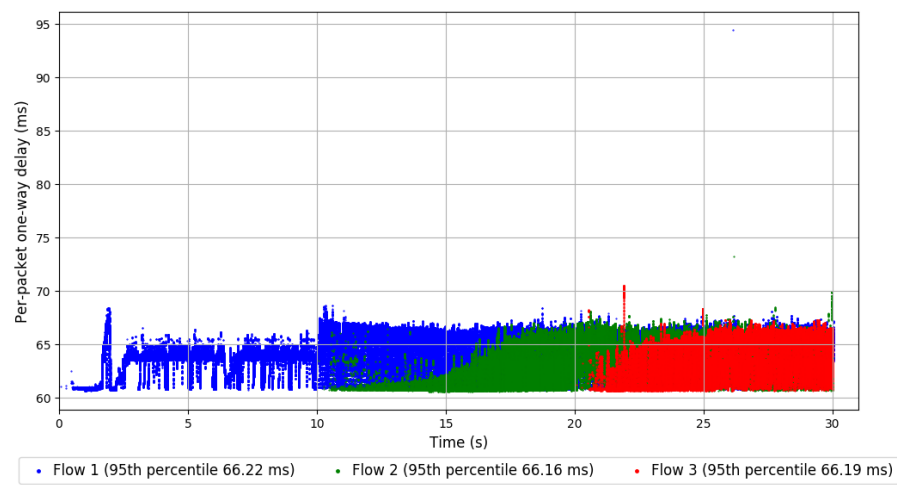
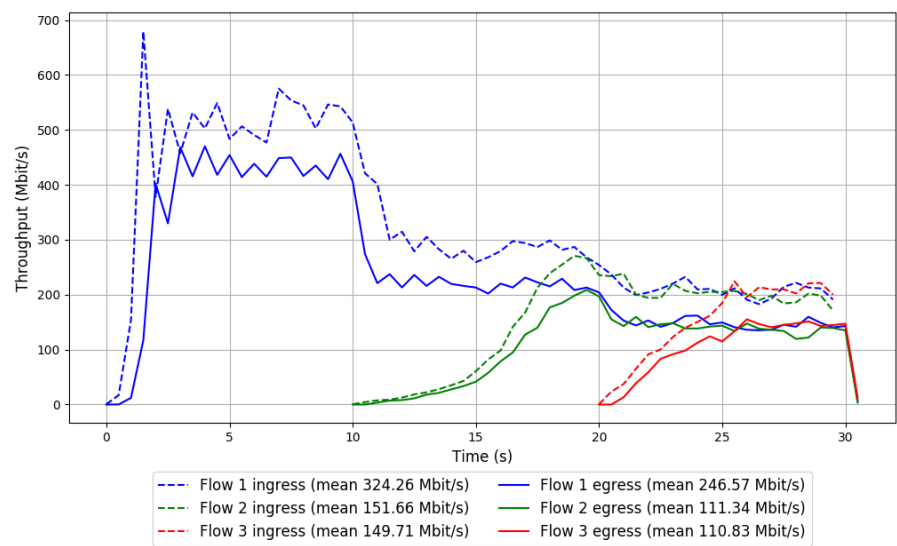


Run 2: Statistics of FillP

Start at: 2019-01-21 11:55:38
End at: 2019-01-21 11:56:08
Local clock offset: -1.741 ms
Remote clock offset: -38.779 ms

Below is generated by plot.py at 2019-01-21 14:28:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 357.39 Mbit/s
95th percentile per-packet one-way delay: 66.202 ms
Loss rate: 24.72%
-- Flow 1:
Average throughput: 246.57 Mbit/s
95th percentile per-packet one-way delay: 66.220 ms
Loss rate: 23.95%
-- Flow 2:
Average throughput: 111.34 Mbit/s
95th percentile per-packet one-way delay: 66.161 ms
Loss rate: 26.59%
-- Flow 3:
Average throughput: 110.83 Mbit/s
95th percentile per-packet one-way delay: 66.187 ms
Loss rate: 25.96%

Run 2: Report of FillP — Data Link

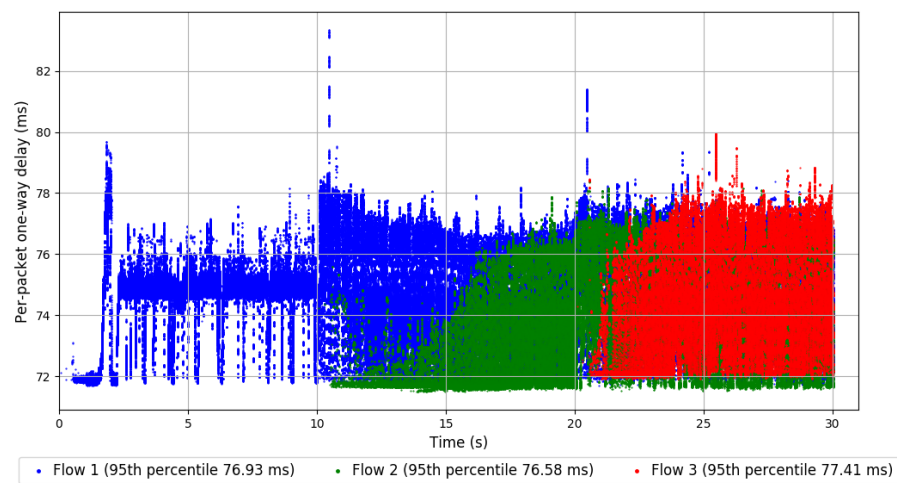
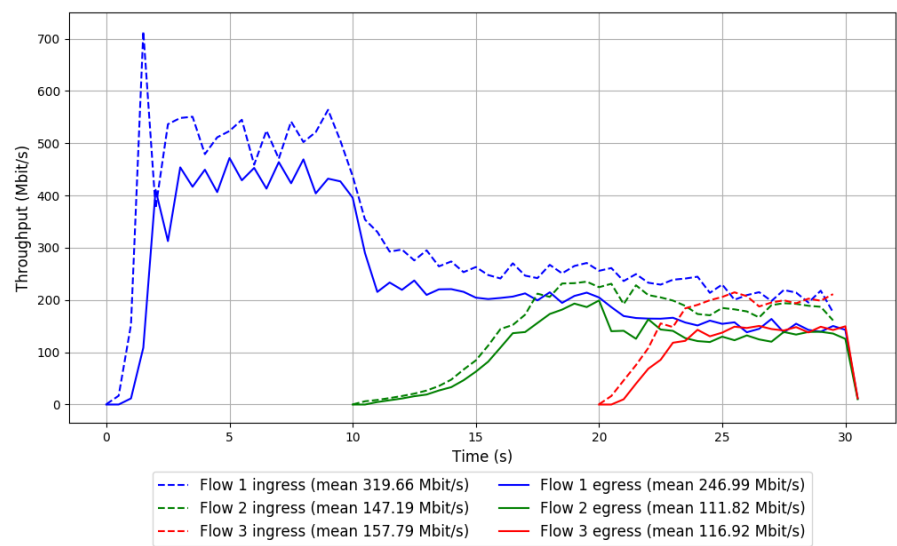


Run 3: Statistics of FillP

Start at: 2019-01-21 12:41:41
End at: 2019-01-21 12:42:11
Local clock offset: -1.473 ms
Remote clock offset: -30.962 ms

Below is generated by plot.py at 2019-01-21 14:28:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 360.18 Mbit/s
95th percentile per-packet one-way delay: 76.952 ms
Loss rate: 23.36%
-- Flow 1:
Average throughput: 246.99 Mbit/s
95th percentile per-packet one-way delay: 76.932 ms
Loss rate: 22.73%
-- Flow 2:
Average throughput: 111.82 Mbit/s
95th percentile per-packet one-way delay: 76.579 ms
Loss rate: 24.04%
-- Flow 3:
Average throughput: 116.92 Mbit/s
95th percentile per-packet one-way delay: 77.414 ms
Loss rate: 25.91%

Run 3: Report of FillP — Data Link

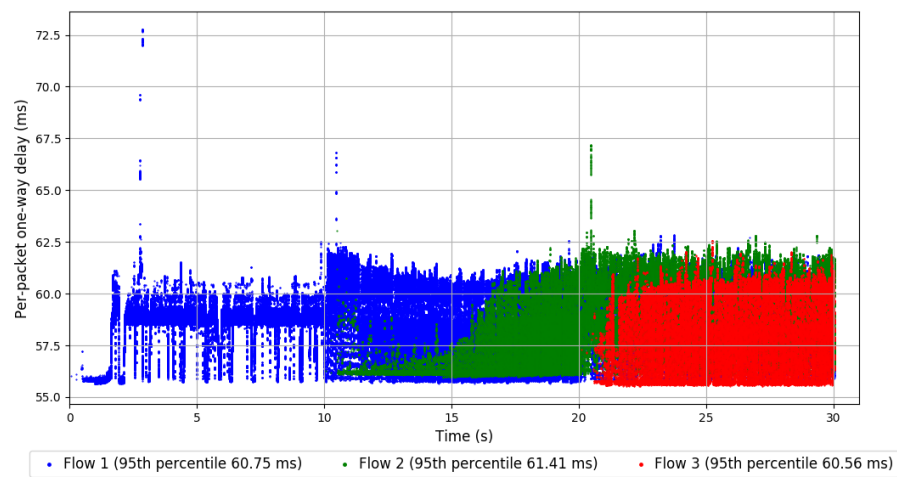
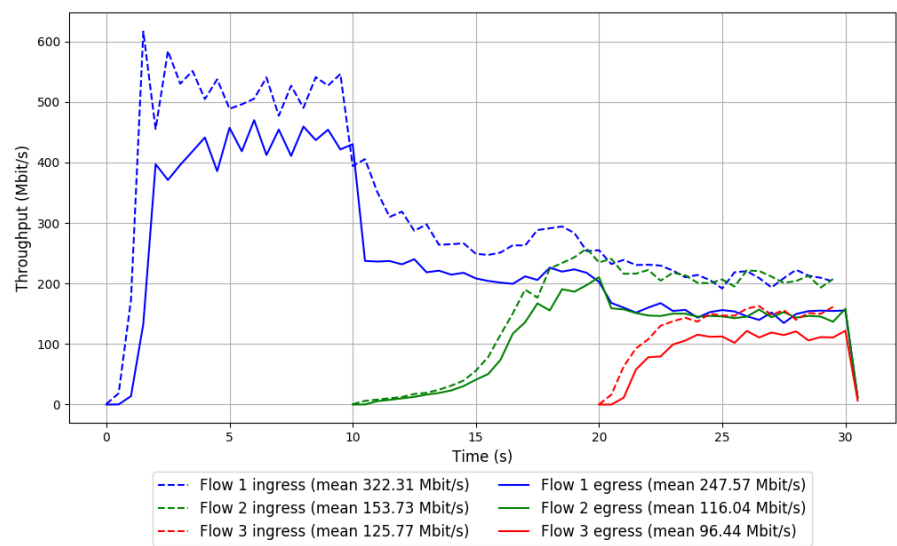


Run 4: Statistics of FillP

Start at: 2019-01-21 13:34:38
End at: 2019-01-21 13:35:08
Local clock offset: -0.643 ms
Remote clock offset: -41.67 ms

Below is generated by plot.py at 2019-01-21 14:28:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.68 Mbit/s
95th percentile per-packet one-way delay: 60.921 ms
Loss rate: 23.49%
-- Flow 1:
Average throughput: 247.57 Mbit/s
95th percentile per-packet one-way delay: 60.748 ms
Loss rate: 23.19%
-- Flow 2:
Average throughput: 116.04 Mbit/s
95th percentile per-packet one-way delay: 61.406 ms
Loss rate: 24.51%
-- Flow 3:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 60.564 ms
Loss rate: 23.30%

Run 4: Report of FillP — Data Link

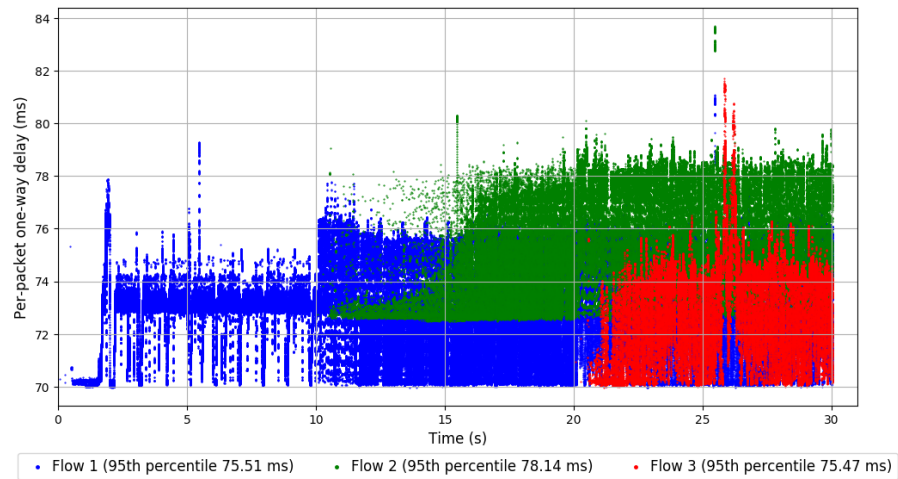
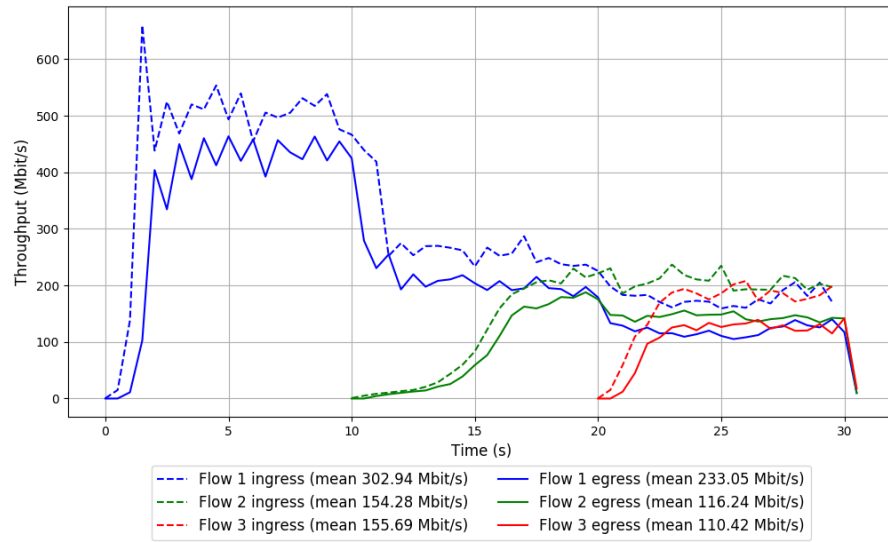


Run 5: Statistics of FillP

Start at: 2019-01-21 14:10:41
End at: 2019-01-21 14:11:11
Local clock offset: -8.672 ms
Remote clock offset: -35.809 ms

Below is generated by plot.py at 2019-01-21 14:28:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 347.04 Mbit/s
95th percentile per-packet one-way delay: 77.082 ms
Loss rate: 24.12%
-- Flow 1:
Average throughput: 233.05 Mbit/s
95th percentile per-packet one-way delay: 75.506 ms
Loss rate: 23.07%
-- Flow 2:
Average throughput: 116.24 Mbit/s
95th percentile per-packet one-way delay: 78.145 ms
Loss rate: 24.73%
-- Flow 3:
Average throughput: 110.42 Mbit/s
95th percentile per-packet one-way delay: 75.465 ms
Loss rate: 29.08%

Run 5: Report of FillP — Data Link

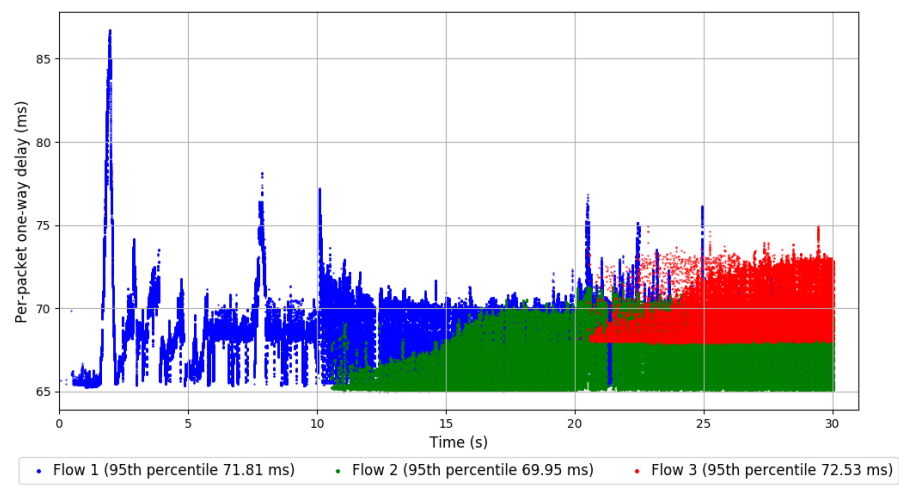
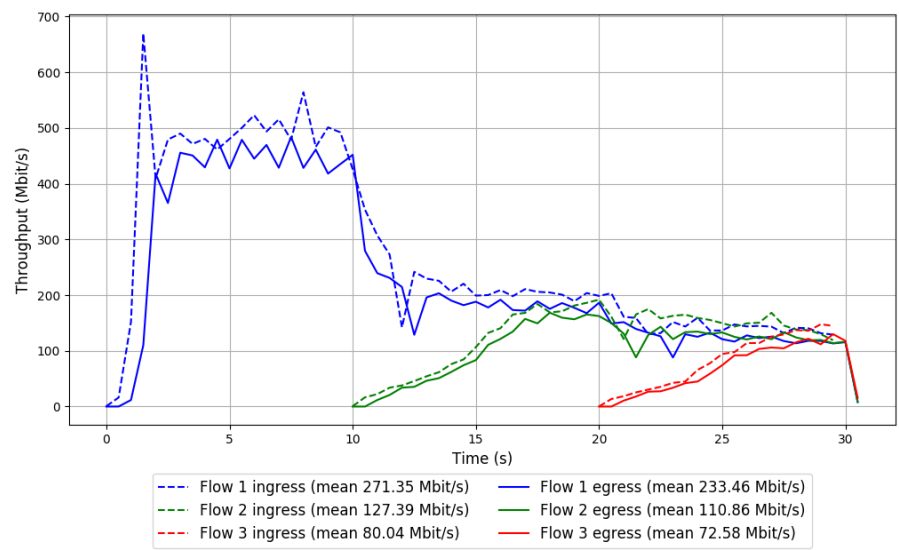


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-21 11:09:10
End at: 2019-01-21 11:09:40
Local clock offset: -0.209 ms
Remote clock offset: -34.141 ms

Below is generated by plot.py at 2019-01-21 14:28:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.19 Mbit/s
95th percentile per-packet one-way delay: 71.682 ms
Loss rate: 13.42%
-- Flow 1:
Average throughput: 233.46 Mbit/s
95th percentile per-packet one-way delay: 71.809 ms
Loss rate: 13.96%
-- Flow 2:
Average throughput: 110.86 Mbit/s
95th percentile per-packet one-way delay: 69.954 ms
Loss rate: 12.98%
-- Flow 3:
Average throughput: 72.58 Mbit/s
95th percentile per-packet one-way delay: 72.528 ms
Loss rate: 9.29%

Run 1: Report of FillP-Sheep — Data Link

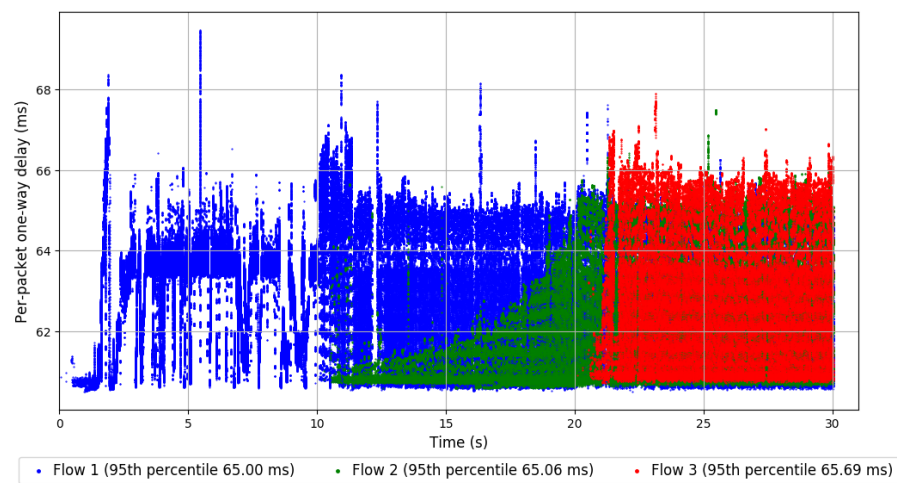
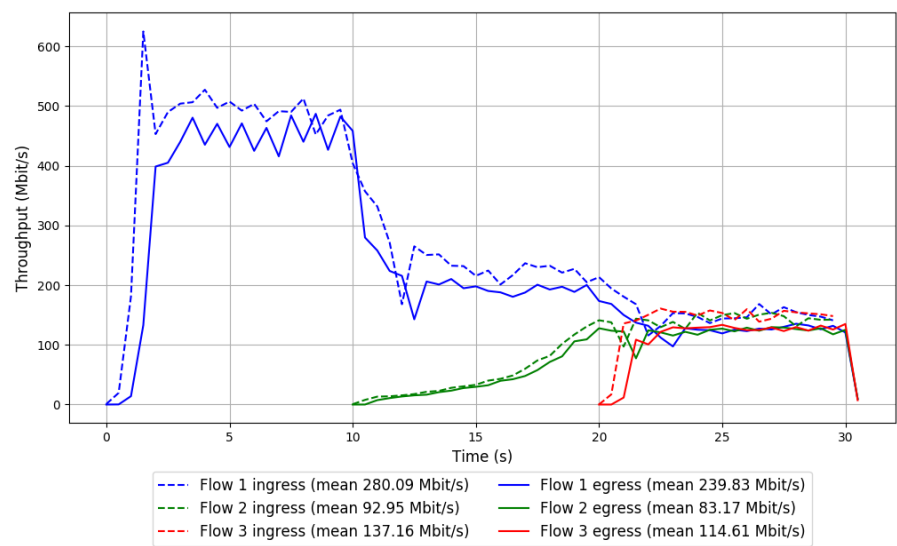


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-21 11:44:52
End at: 2019-01-21 11:45:22
Local clock offset: -4.449 ms
Remote clock offset: -40.54 ms

Below is generated by plot.py at 2019-01-21 14:30:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.13 Mbit/s
95th percentile per-packet one-way delay: 65.174 ms
Loss rate: 14.00%
-- Flow 1:
Average throughput: 239.83 Mbit/s
95th percentile per-packet one-way delay: 65.003 ms
Loss rate: 14.37%
-- Flow 2:
Average throughput: 83.17 Mbit/s
95th percentile per-packet one-way delay: 65.063 ms
Loss rate: 10.52%
-- Flow 3:
Average throughput: 114.61 Mbit/s
95th percentile per-packet one-way delay: 65.687 ms
Loss rate: 16.44%

Run 2: Report of FillP-Sheep — Data Link

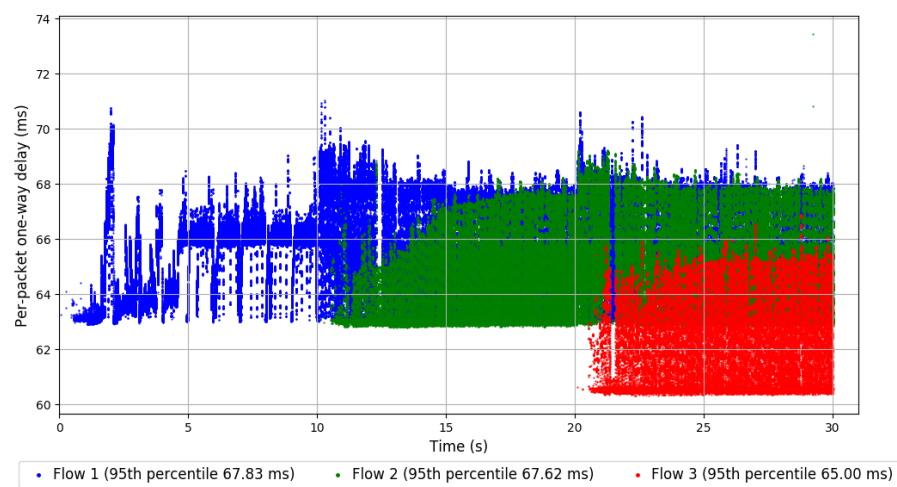
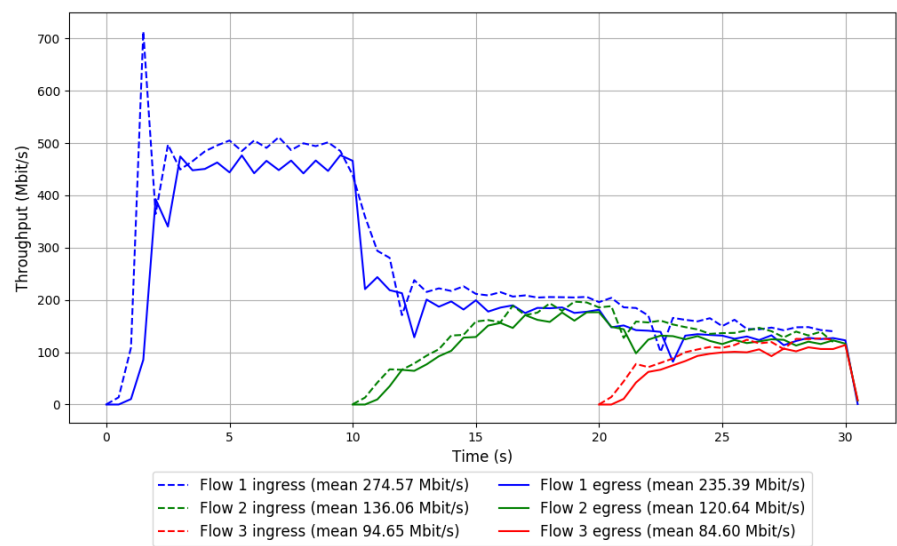


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-21 12:31:05
End at: 2019-01-21 12:31:35
Local clock offset: -1.052 ms
Remote clock offset: -39.373 ms

Below is generated by plot.py at 2019-01-21 14:31:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.64 Mbit/s
95th percentile per-packet one-way delay: 67.722 ms
Loss rate: 13.35%
-- Flow 1:
Average throughput: 235.39 Mbit/s
95th percentile per-packet one-way delay: 67.832 ms
Loss rate: 14.33%
-- Flow 2:
Average throughput: 120.64 Mbit/s
95th percentile per-packet one-way delay: 67.616 ms
Loss rate: 11.34%
-- Flow 3:
Average throughput: 84.60 Mbit/s
95th percentile per-packet one-way delay: 64.995 ms
Loss rate: 10.61%

Run 3: Report of FillP-Sheep — Data Link

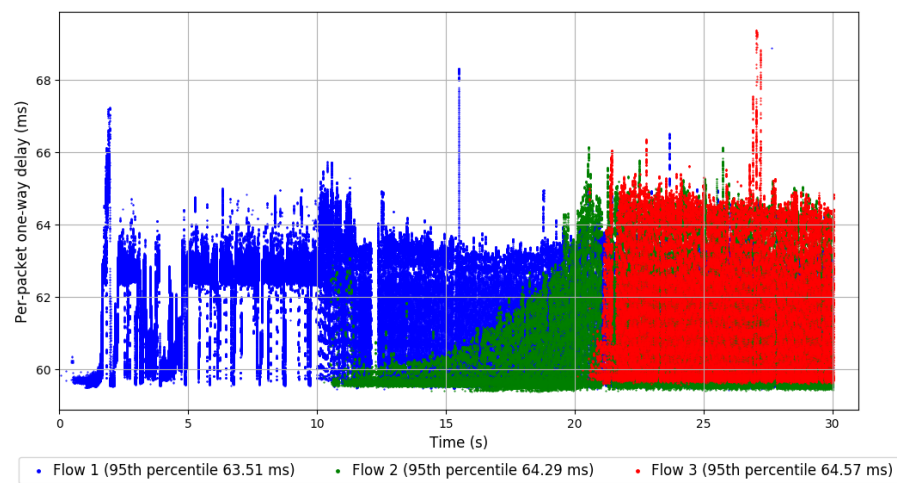
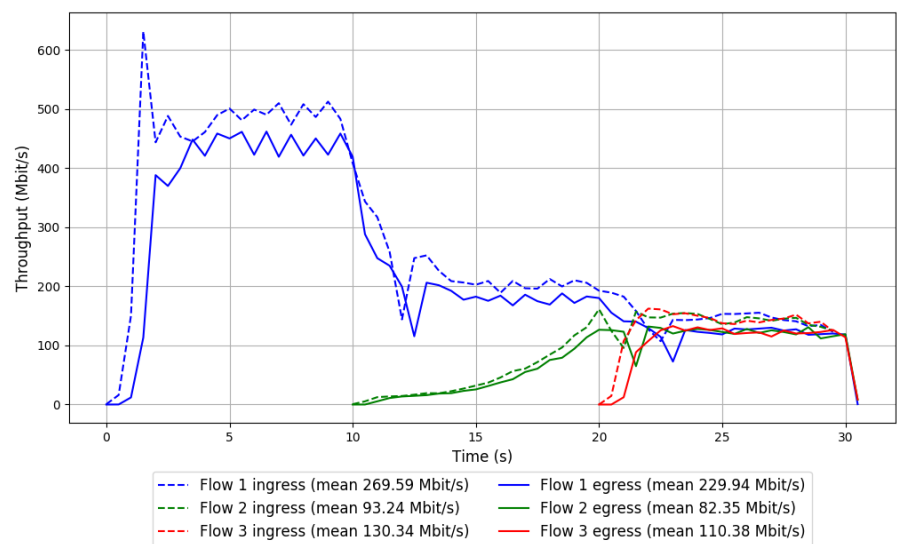


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-21 13:24:01
End at: 2019-01-21 13:24:31
Local clock offset: -1.804 ms
Remote clock offset: -39.916 ms

Below is generated by plot.py at 2019-01-21 14:32:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 321.14 Mbit/s
95th percentile per-packet one-way delay: 64.022 ms
Loss rate: 14.28%
-- Flow 1:
Average throughput: 229.94 Mbit/s
95th percentile per-packet one-way delay: 63.505 ms
Loss rate: 14.71%
-- Flow 2:
Average throughput: 82.35 Mbit/s
95th percentile per-packet one-way delay: 64.291 ms
Loss rate: 11.69%
-- Flow 3:
Average throughput: 110.38 Mbit/s
95th percentile per-packet one-way delay: 64.571 ms
Loss rate: 15.30%

Run 4: Report of FillP-Sheep — Data Link

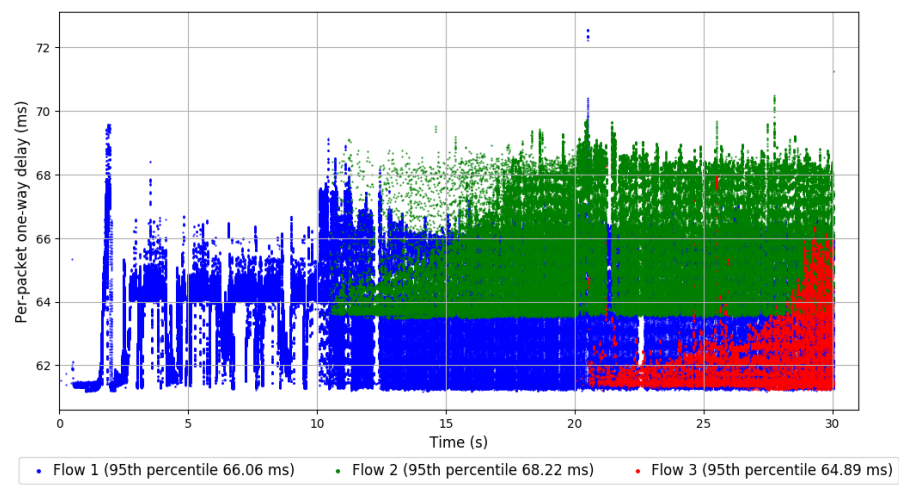
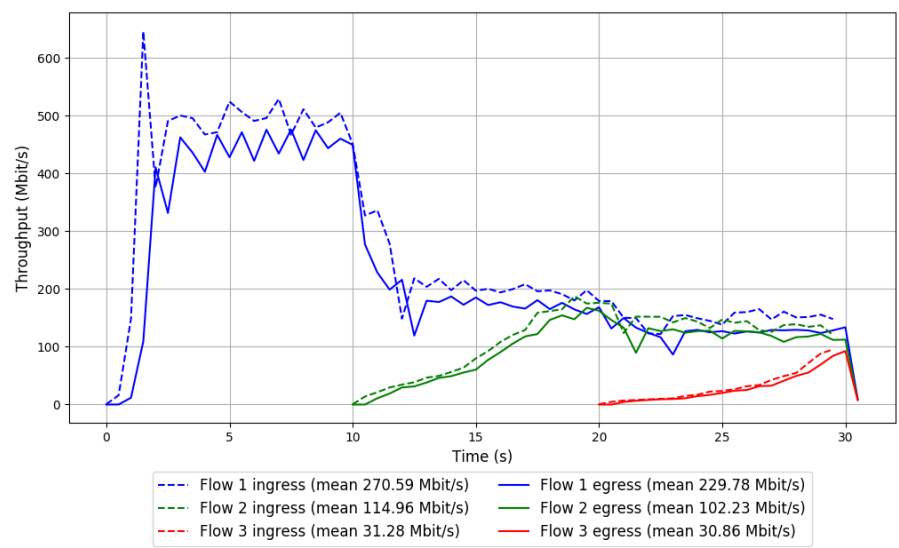


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-21 13:59:56
End at: 2019-01-21 14:00:26
Local clock offset: -2.298 ms
Remote clock offset: -38.576 ms

Below is generated by plot.py at 2019-01-21 14:32:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 308.02 Mbit/s
95th percentile per-packet one-way delay: 67.222 ms
Loss rate: 13.82%
-- Flow 1:
Average throughput: 229.78 Mbit/s
95th percentile per-packet one-way delay: 66.060 ms
Loss rate: 15.08%
-- Flow 2:
Average throughput: 102.23 Mbit/s
95th percentile per-packet one-way delay: 68.217 ms
Loss rate: 11.06%
-- Flow 3:
Average throughput: 30.86 Mbit/s
95th percentile per-packet one-way delay: 64.890 ms
Loss rate: 1.34%

Run 5: Report of FillP-Sheep — Data Link

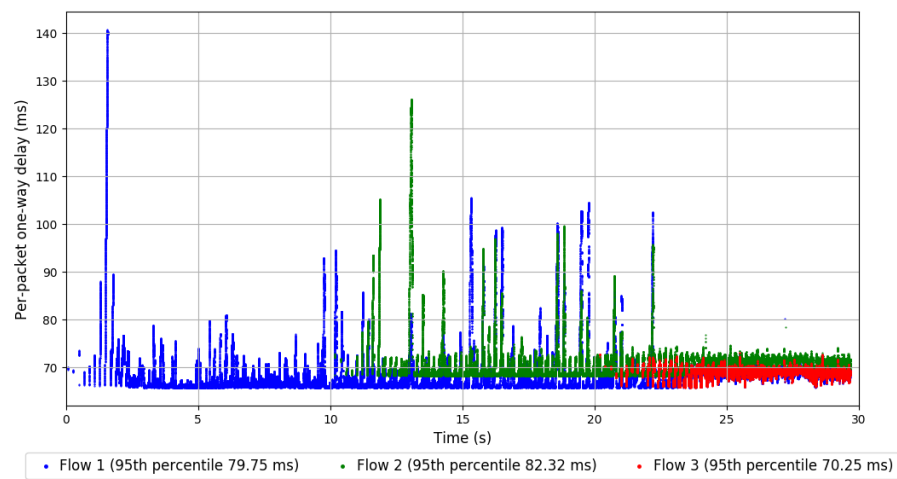
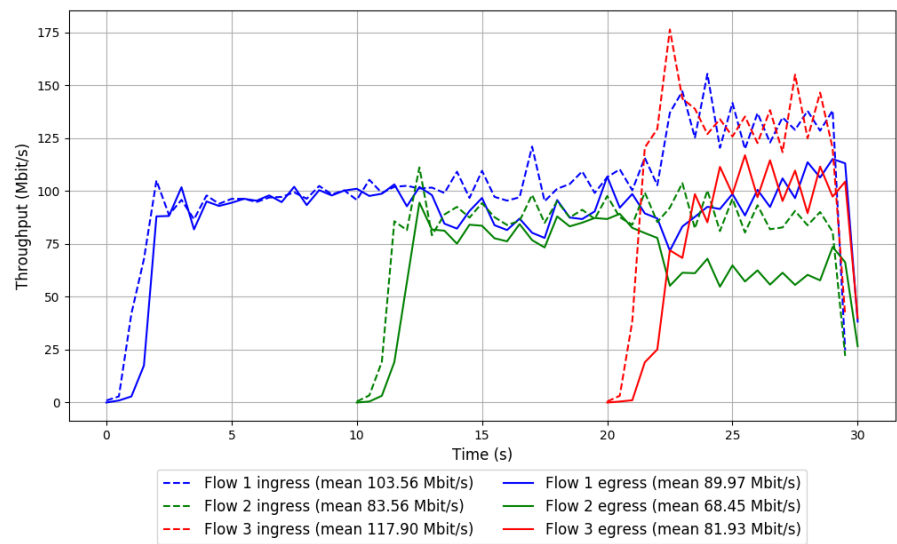


Run 1: Statistics of Indigo

Start at: 2019-01-21 11:25:30
End at: 2019-01-21 11:26:00
Local clock offset: -1.349 ms
Remote clock offset: -33.105 ms

Below is generated by plot.py at 2019-01-21 14:32:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 161.31 Mbit/s
95th percentile per-packet one-way delay: 78.274 ms
Loss rate: 17.87%
-- Flow 1:
Average throughput: 89.97 Mbit/s
95th percentile per-packet one-way delay: 79.751 ms
Loss rate: 13.13%
-- Flow 2:
Average throughput: 68.45 Mbit/s
95th percentile per-packet one-way delay: 82.319 ms
Loss rate: 18.08%
-- Flow 3:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 70.245 ms
Loss rate: 30.53%

Run 1: Report of Indigo — Data Link

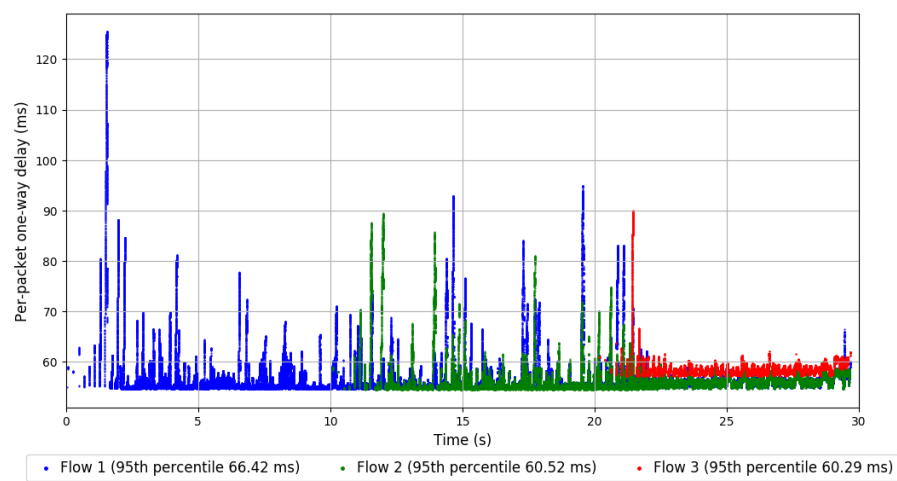
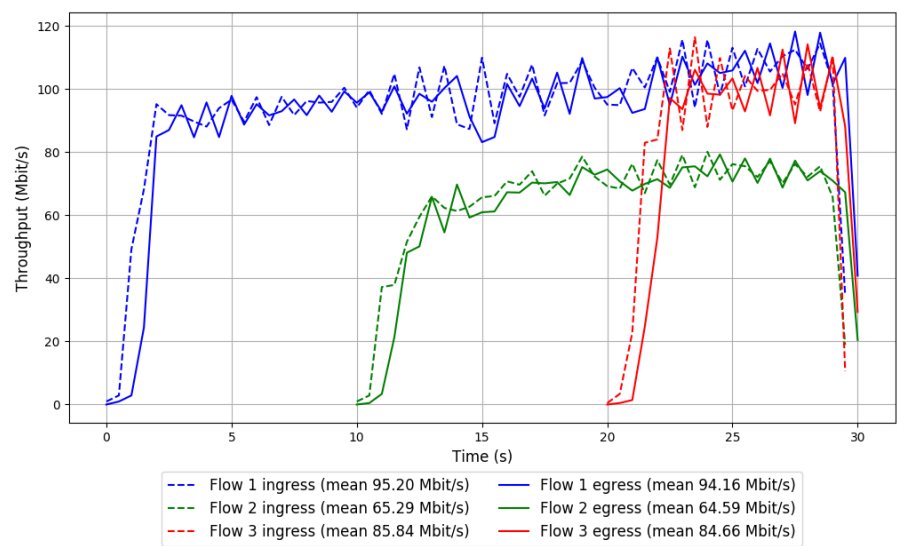


Run 2: Statistics of Indigo

Start at: 2019-01-21 12:01:23
End at: 2019-01-21 12:01:53
Local clock offset: -2.766 ms
Remote clock offset: -46.193 ms

Below is generated by plot.py at 2019-01-21 14:32:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 163.92 Mbit/s
95th percentile per-packet one-way delay: 62.579 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 66.419 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 64.59 Mbit/s
95th percentile per-packet one-way delay: 60.517 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 84.66 Mbit/s
95th percentile per-packet one-way delay: 60.294 ms
Loss rate: 1.33%

Run 2: Report of Indigo — Data Link

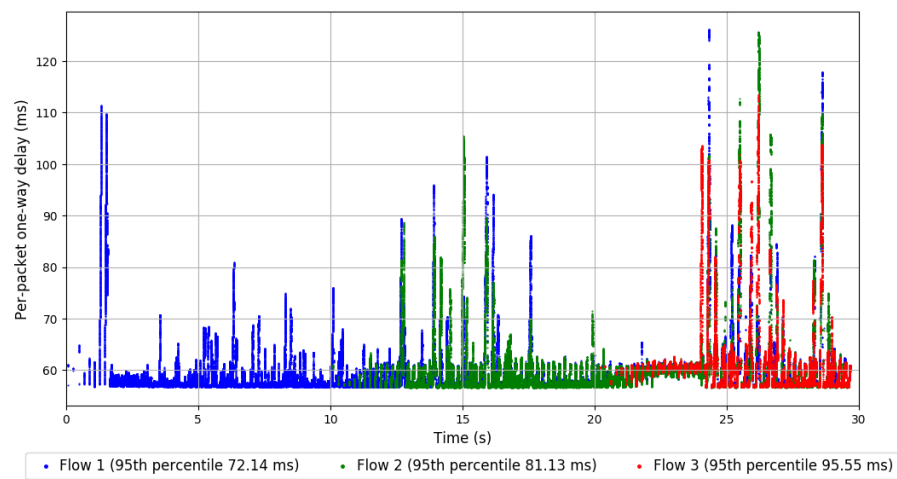
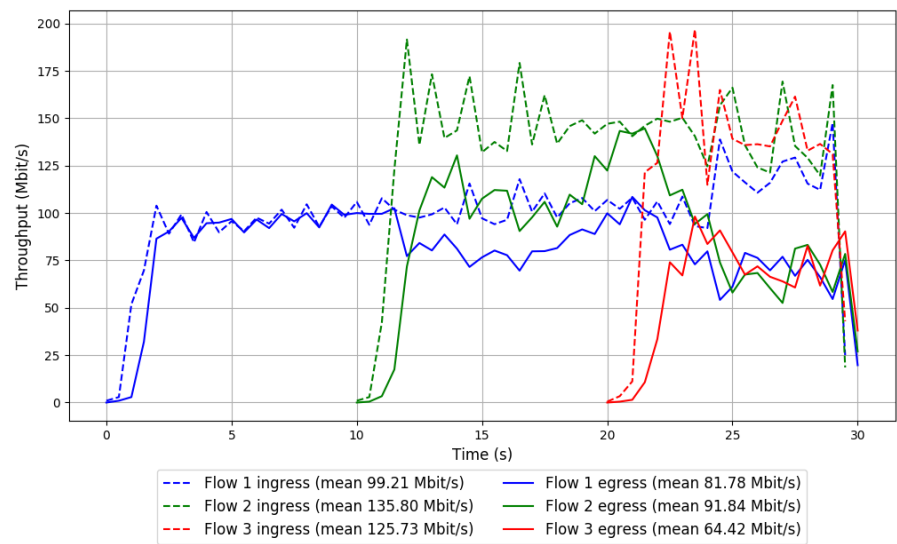


Run 3: Statistics of Indigo

Start at: 2019-01-21 12:53:05
End at: 2019-01-21 12:53:35
Local clock offset: 1.191 ms
Remote clock offset: -40.881 ms

Below is generated by plot.py at 2019-01-21 14:32:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 163.11 Mbit/s
95th percentile per-packet one-way delay: 79.568 ms
Loss rate: 28.84%
-- Flow 1:
Average throughput: 81.78 Mbit/s
95th percentile per-packet one-way delay: 72.135 ms
Loss rate: 17.56%
-- Flow 2:
Average throughput: 91.84 Mbit/s
95th percentile per-packet one-way delay: 81.130 ms
Loss rate: 32.37%
-- Flow 3:
Average throughput: 64.42 Mbit/s
95th percentile per-packet one-way delay: 95.549 ms
Loss rate: 48.76%

Run 3: Report of Indigo — Data Link

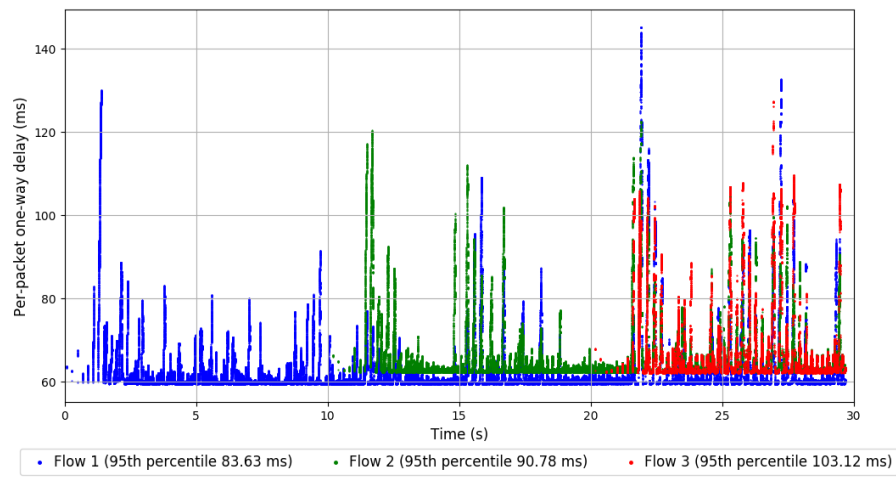
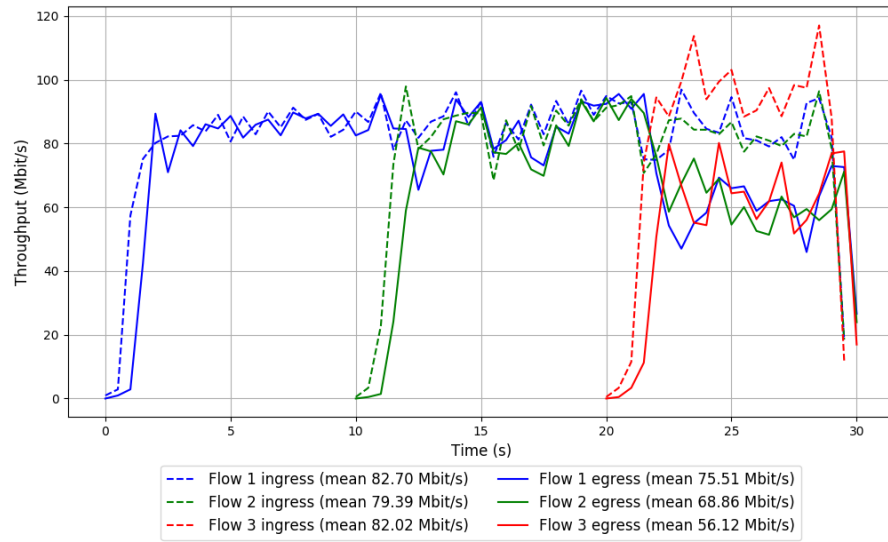


Run 4: Statistics of Indigo

Start at: 2019-01-21 13:40:23
End at: 2019-01-21 13:40:53
Local clock offset: -2.731 ms
Remote clock offset: -39.693 ms

Below is generated by plot.py at 2019-01-21 14:32:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 138.80 Mbit/s
95th percentile per-packet one-way delay: 91.520 ms
Loss rate: 13.92%
-- Flow 1:
Average throughput: 75.51 Mbit/s
95th percentile per-packet one-way delay: 83.630 ms
Loss rate: 8.70%
-- Flow 2:
Average throughput: 68.86 Mbit/s
95th percentile per-packet one-way delay: 90.779 ms
Loss rate: 13.30%
-- Flow 3:
Average throughput: 56.12 Mbit/s
95th percentile per-packet one-way delay: 103.117 ms
Loss rate: 31.58%

Run 4: Report of Indigo — Data Link

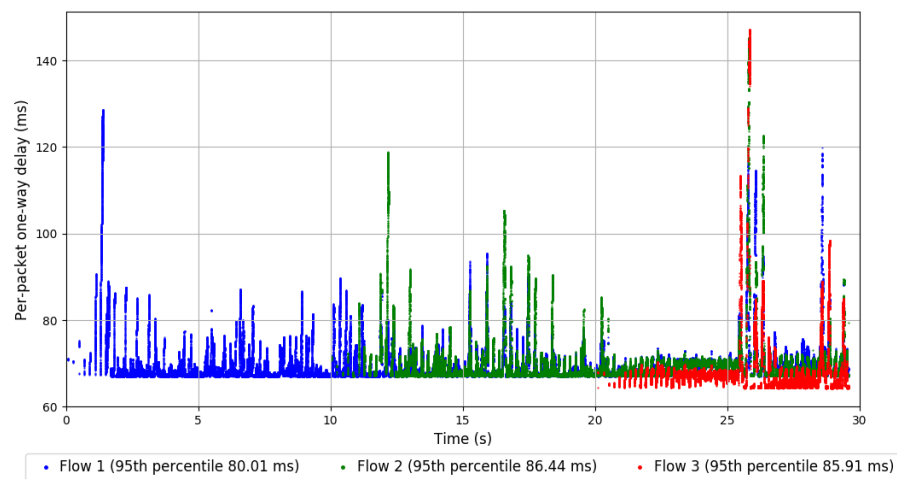
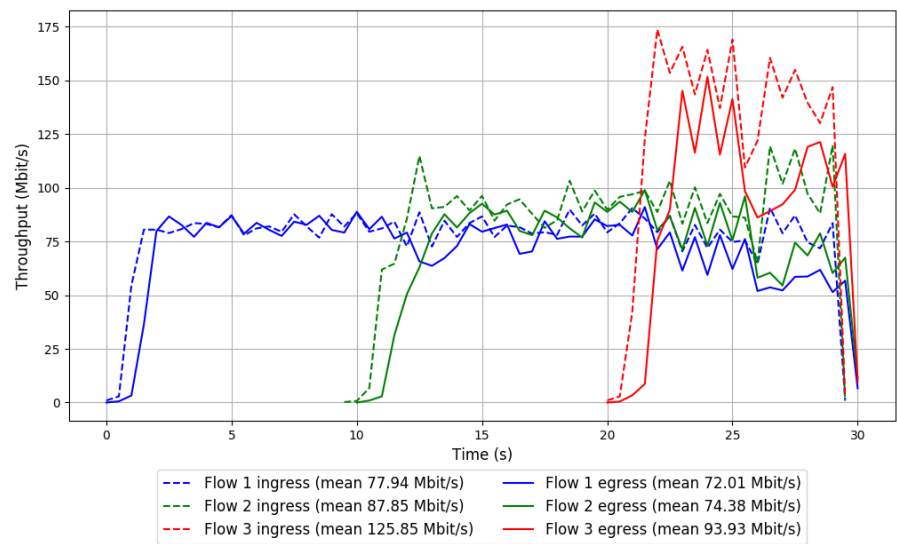


Run 5: Statistics of Indigo

Start at: 2019-01-21 14:16:27
End at: 2019-01-21 14:16:57
Local clock offset: -4.635 ms
Remote clock offset: -37.68 ms

Below is generated by plot.py at 2019-01-21 14:32:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.36 Mbit/s
95th percentile per-packet one-way delay: 83.207 ms
Loss rate: 14.21%
-- Flow 1:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 80.006 ms
Loss rate: 7.62%
-- Flow 2:
Average throughput: 74.38 Mbit/s
95th percentile per-packet one-way delay: 86.437 ms
Loss rate: 15.31%
-- Flow 3:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 85.910 ms
Loss rate: 25.36%

Run 5: Report of Indigo — Data Link

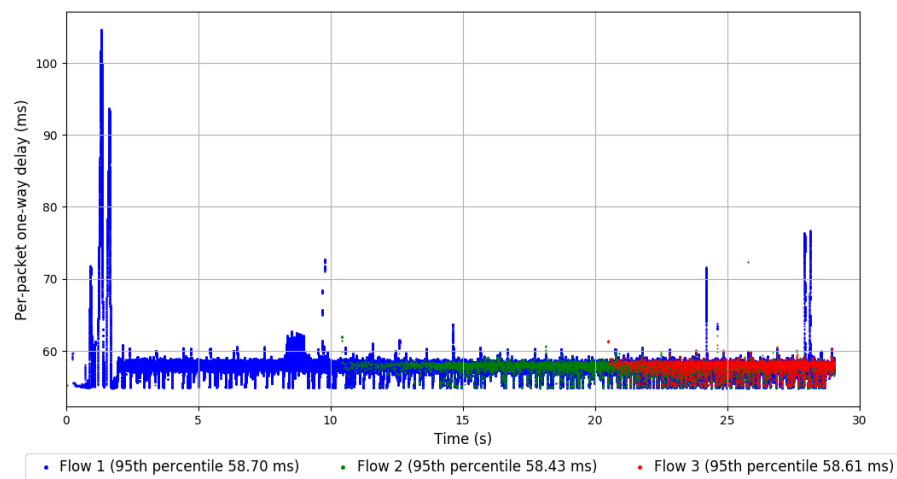
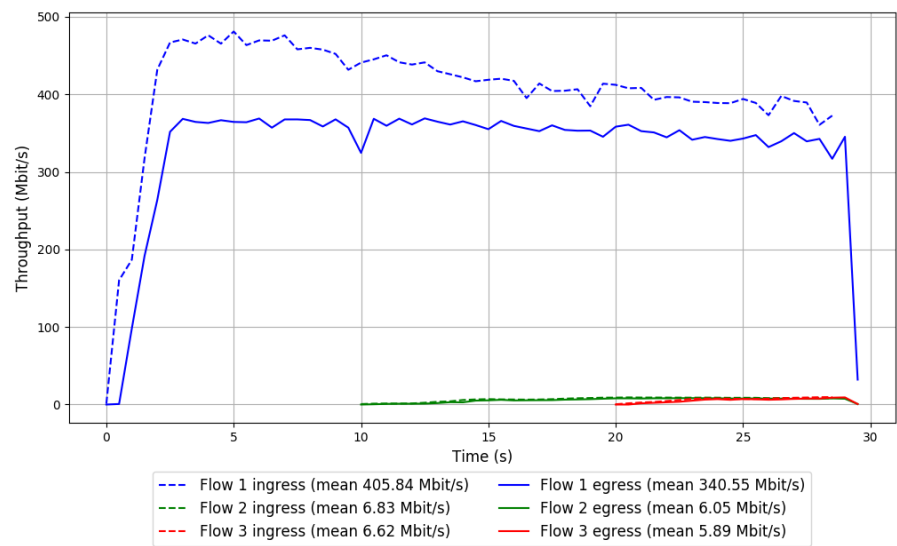


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-21 11:22:36
End at: 2019-01-21 11:23:06
Local clock offset: -2.153 ms
Remote clock offset: -45.078 ms

Below is generated by plot.py at 2019-01-21 14:34:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.25 Mbit/s
95th percentile per-packet one-way delay: 58.694 ms
Loss rate: 16.03%
-- Flow 1:
Average throughput: 340.55 Mbit/s
95th percentile per-packet one-way delay: 58.699 ms
Loss rate: 16.10%
-- Flow 2:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 58.429 ms
Loss rate: 11.52%
-- Flow 3:
Average throughput: 5.89 Mbit/s
95th percentile per-packet one-way delay: 58.607 ms
Loss rate: 10.88%

Run 1: Report of Indigo-MusesC3 — Data Link

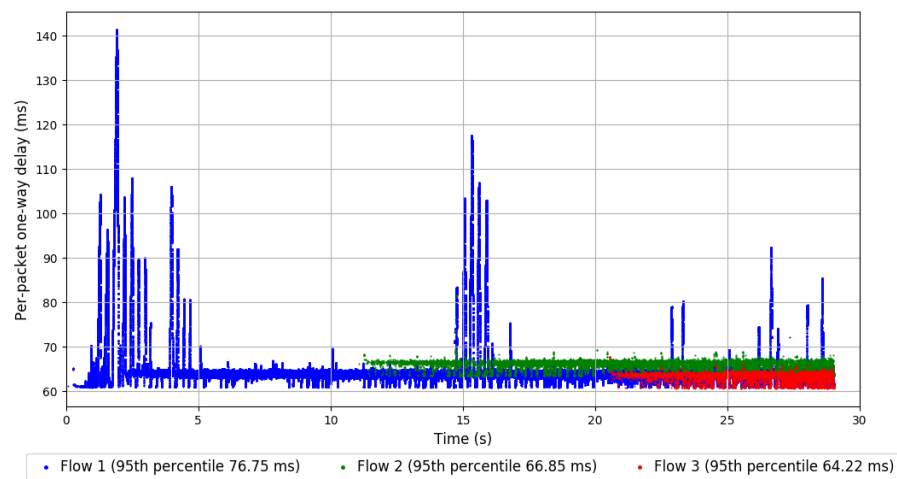
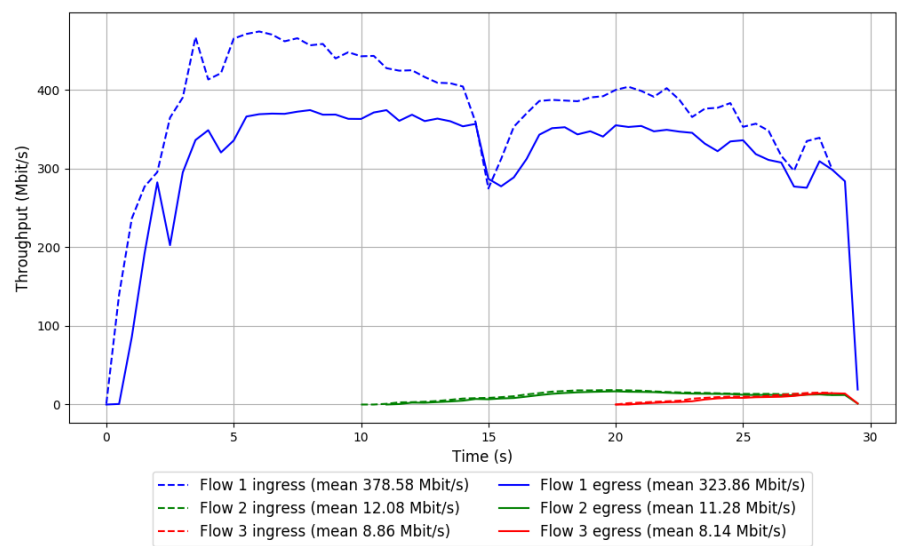


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-21 11:58:30
End at: 2019-01-21 11:59:00
Local clock offset: -0.98 ms
Remote clock offset: -38.278 ms

Below is generated by plot.py at 2019-01-21 14:34:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.29 Mbit/s
95th percentile per-packet one-way delay: 75.964 ms
Loss rate: 14.31%
-- Flow 1:
Average throughput: 323.86 Mbit/s
95th percentile per-packet one-way delay: 76.750 ms
Loss rate: 14.45%
-- Flow 2:
Average throughput: 11.28 Mbit/s
95th percentile per-packet one-way delay: 66.851 ms
Loss rate: 9.19%
-- Flow 3:
Average throughput: 8.14 Mbit/s
95th percentile per-packet one-way delay: 64.215 ms
Loss rate: 8.12%

Run 2: Report of Indigo-MusesC3 — Data Link

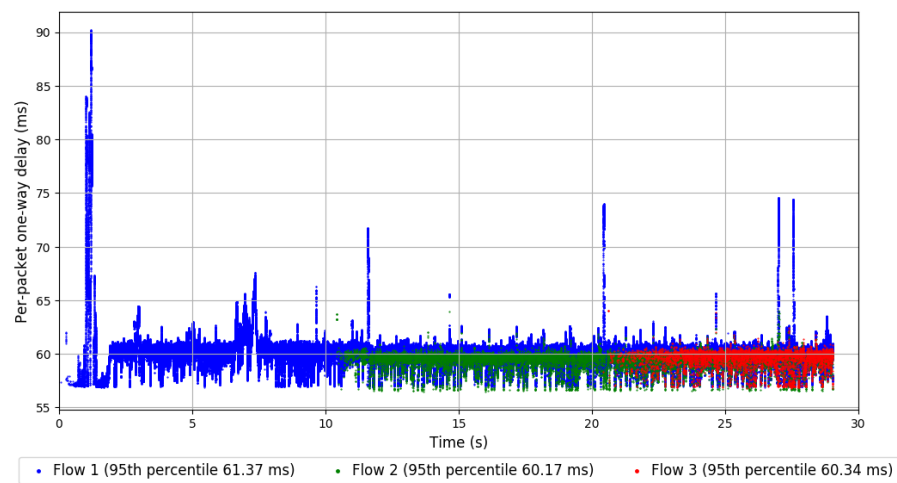
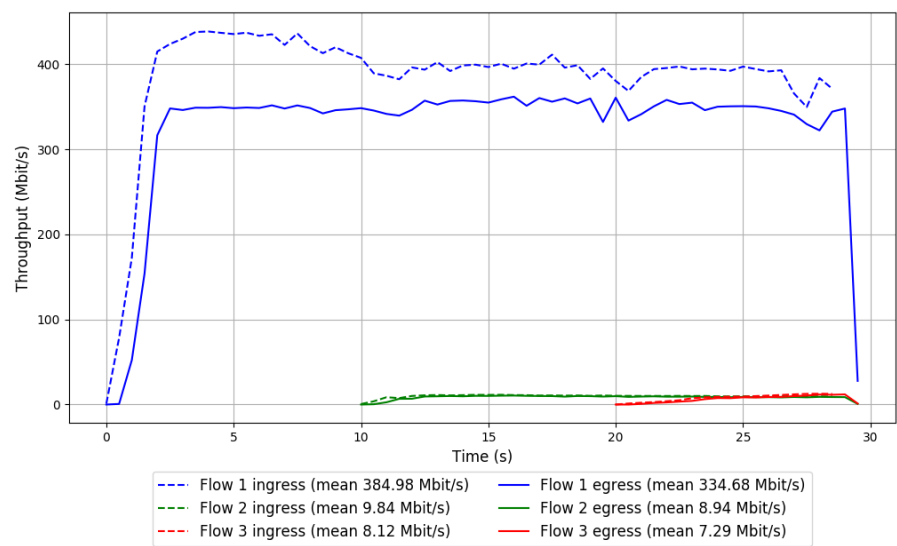


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-21 12:50:04
End at: 2019-01-21 12:50:34
Local clock offset: 2.786 ms
Remote clock offset: -39.438 ms

Below is generated by plot.py at 2019-01-21 14:34:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 342.61 Mbit/s
95th percentile per-packet one-way delay: 61.342 ms
Loss rate: 12.98%
-- Flow 1:
Average throughput: 334.68 Mbit/s
95th percentile per-packet one-way delay: 61.368 ms
Loss rate: 13.06%
-- Flow 2:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 60.175 ms
Loss rate: 9.16%
-- Flow 3:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 60.345 ms
Loss rate: 10.17%

Run 3: Report of Indigo-MusesC3 — Data Link

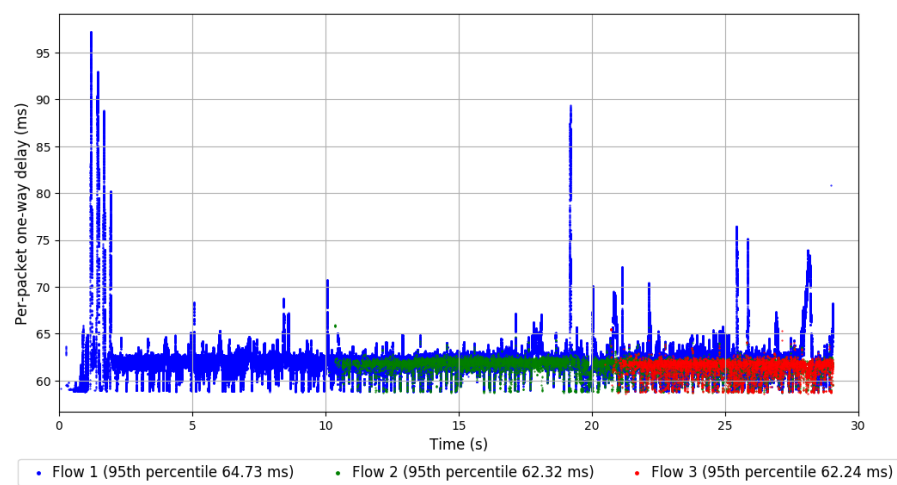
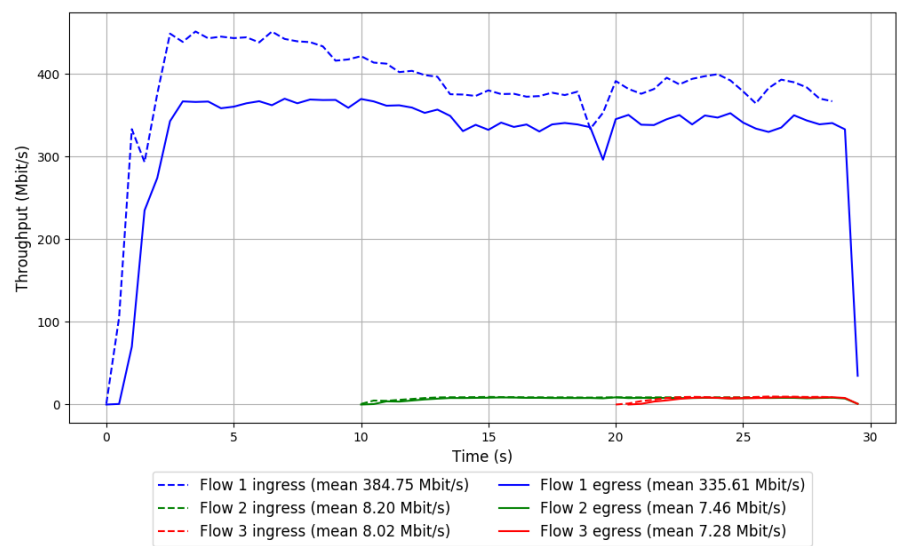


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-21 13:37:30
End at: 2019-01-21 13:38:00
Local clock offset: -3.8 ms
Remote clock offset: -41.678 ms

Below is generated by plot.py at 2019-01-21 14:34:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 342.62 Mbit/s
95th percentile per-packet one-way delay: 64.690 ms
Loss rate: 12.69%
-- Flow 1:
Average throughput: 335.61 Mbit/s
95th percentile per-packet one-way delay: 64.734 ms
Loss rate: 12.77%
-- Flow 2:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 62.323 ms
Loss rate: 8.98%
-- Flow 3:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 62.236 ms
Loss rate: 9.29%

Run 4: Report of Indigo-MusesC3 — Data Link

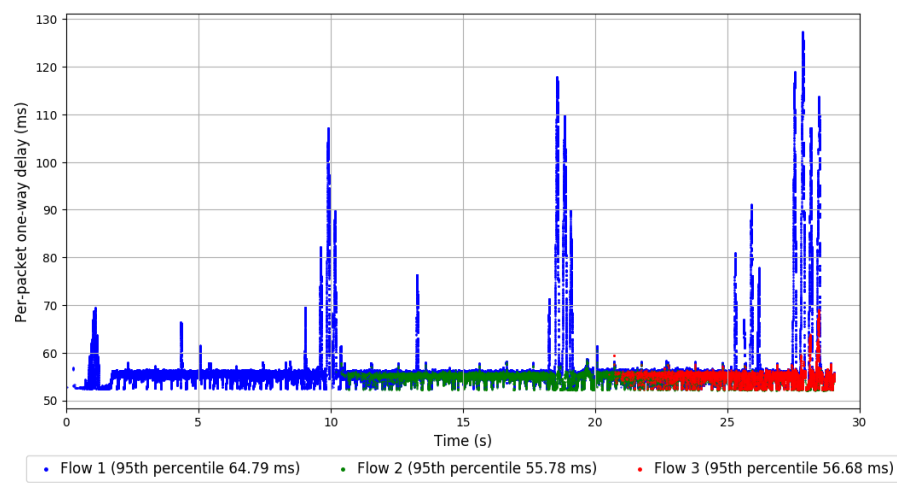
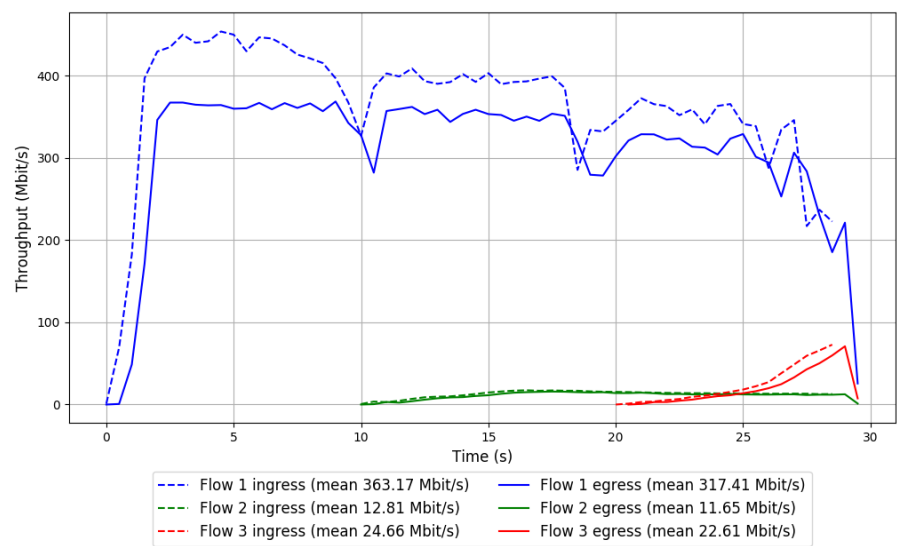


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-21 14:13:33
End at: 2019-01-21 14:14:03
Local clock offset: -1.469 ms
Remote clock offset: -46.274 ms

Below is generated by plot.py at 2019-01-21 14:34:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 331.65 Mbit/s
95th percentile per-packet one-way delay: 63.178 ms
Loss rate: 12.43%
-- Flow 1:
Average throughput: 317.41 Mbit/s
95th percentile per-packet one-way delay: 64.793 ms
Loss rate: 12.59%
-- Flow 2:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 55.783 ms
Loss rate: 9.08%
-- Flow 3:
Average throughput: 22.61 Mbit/s
95th percentile per-packet one-way delay: 56.681 ms
Loss rate: 8.32%

Run 5: Report of Indigo-MusesC3 — Data Link

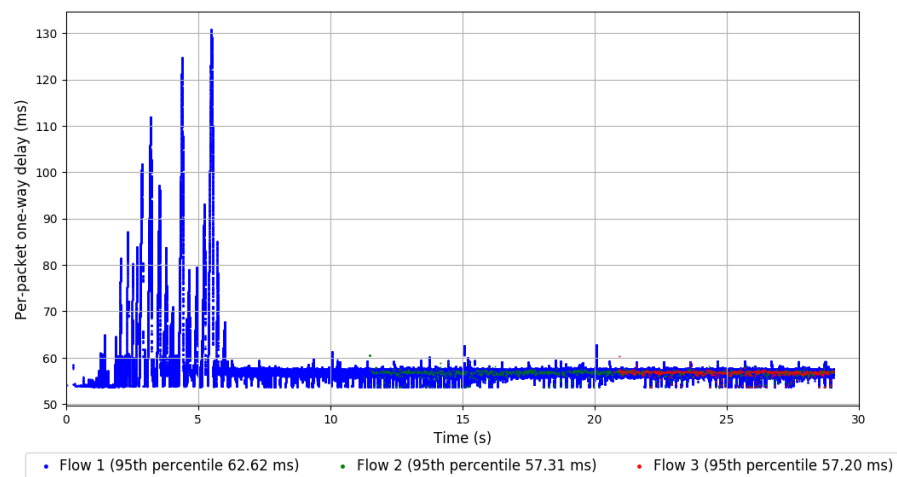
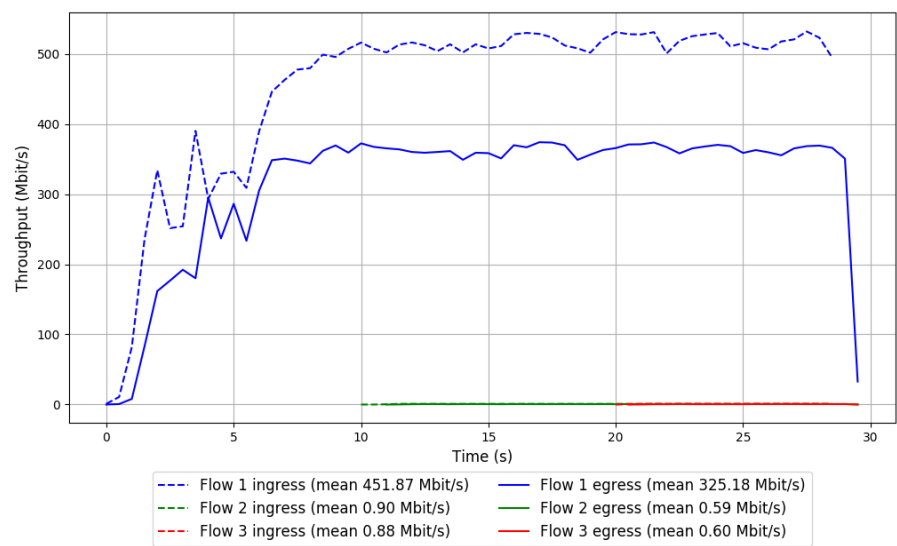


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-21 11:03:38
End at: 2019-01-21 11:04:08
Local clock offset: 0.033 ms
Remote clock offset: -45.659 ms

Below is generated by plot.py at 2019-01-21 14:36:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.72 Mbit/s
95th percentile per-packet one-way delay: 62.574 ms
Loss rate: 28.05%
-- Flow 1:
Average throughput: 325.18 Mbit/s
95th percentile per-packet one-way delay: 62.623 ms
Loss rate: 28.03%
-- Flow 2:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 57.313 ms
Loss rate: 37.53%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 57.205 ms
Loss rate: 36.13%

Run 1: Report of Indigo-MusesC5 — Data Link

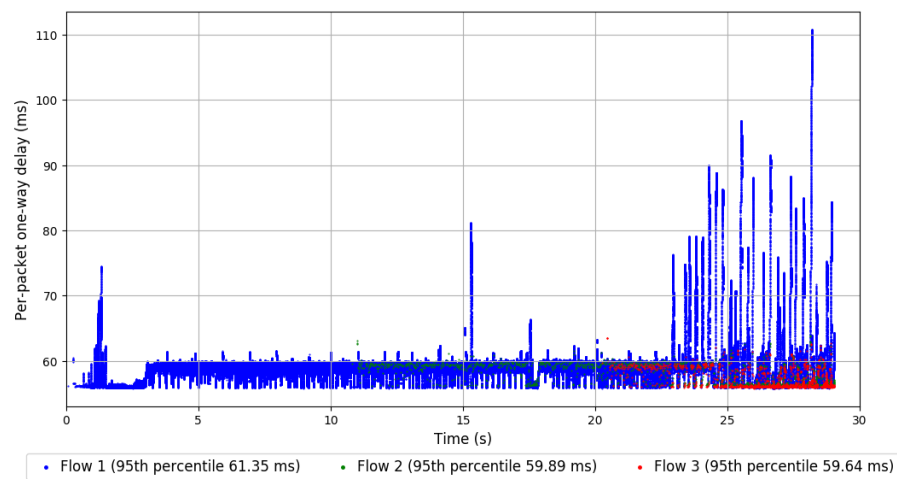
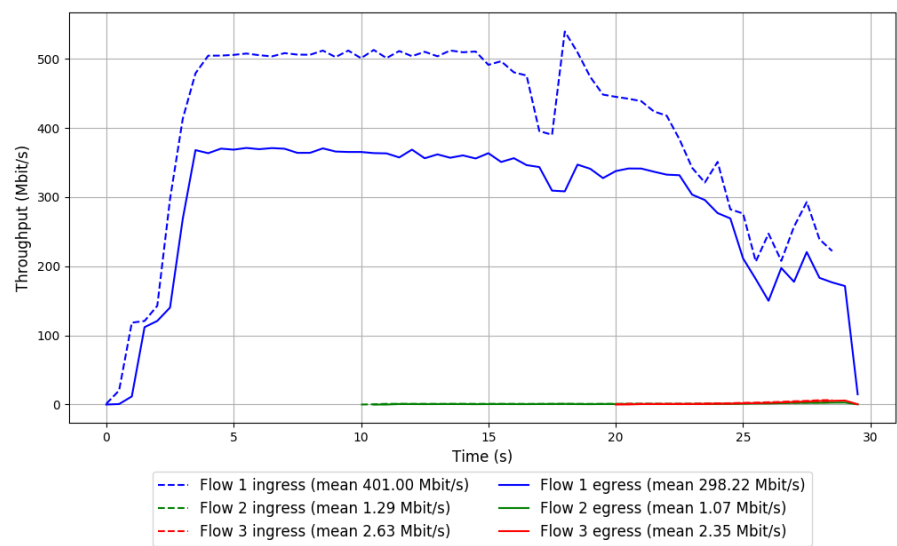


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-21 11:34:03
End at: 2019-01-21 11:34:33
Local clock offset: -3.421 ms
Remote clock offset: -44.509 ms

Below is generated by plot.py at 2019-01-21 14:36:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 299.61 Mbit/s
95th percentile per-packet one-way delay: 61.326 ms
Loss rate: 25.58%
-- Flow 1:
Average throughput: 298.22 Mbit/s
95th percentile per-packet one-way delay: 61.348 ms
Loss rate: 25.62%
-- Flow 2:
Average throughput: 1.07 Mbit/s
95th percentile per-packet one-way delay: 59.891 ms
Loss rate: 18.99%
-- Flow 3:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 59.636 ms
Loss rate: 10.71%

Run 2: Report of Indigo-MusesC5 — Data Link

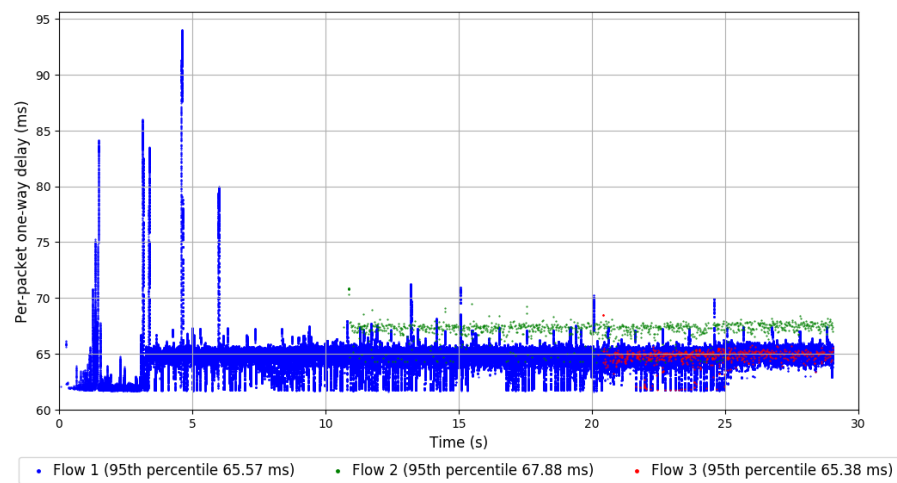
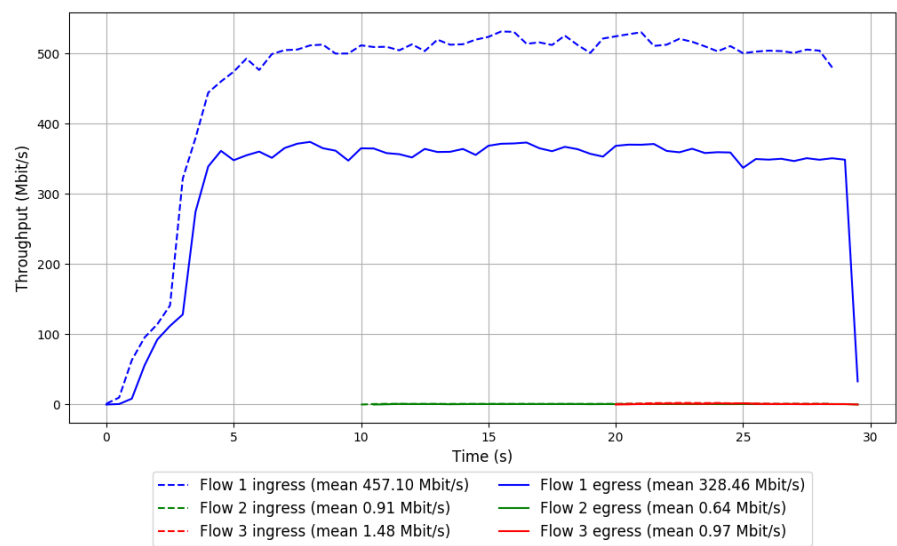


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-21 12:25:34
End at: 2019-01-21 12:26:04
Local clock offset: -1.346 ms
Remote clock offset: -38.46 ms

Below is generated by plot.py at 2019-01-21 14:37:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.16 Mbit/s
95th percentile per-packet one-way delay: 65.580 ms
Loss rate: 28.15%
-- Flow 1:
Average throughput: 328.46 Mbit/s
95th percentile per-packet one-way delay: 65.572 ms
Loss rate: 28.14%
-- Flow 2:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 67.884 ms
Loss rate: 31.30%
-- Flow 3:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 65.376 ms
Loss rate: 34.58%

Run 3: Report of Indigo-MusesC5 — Data Link

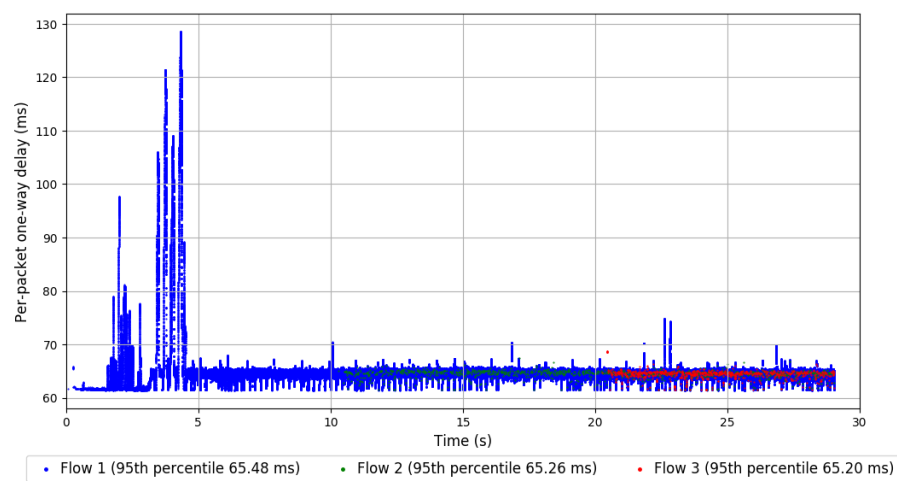
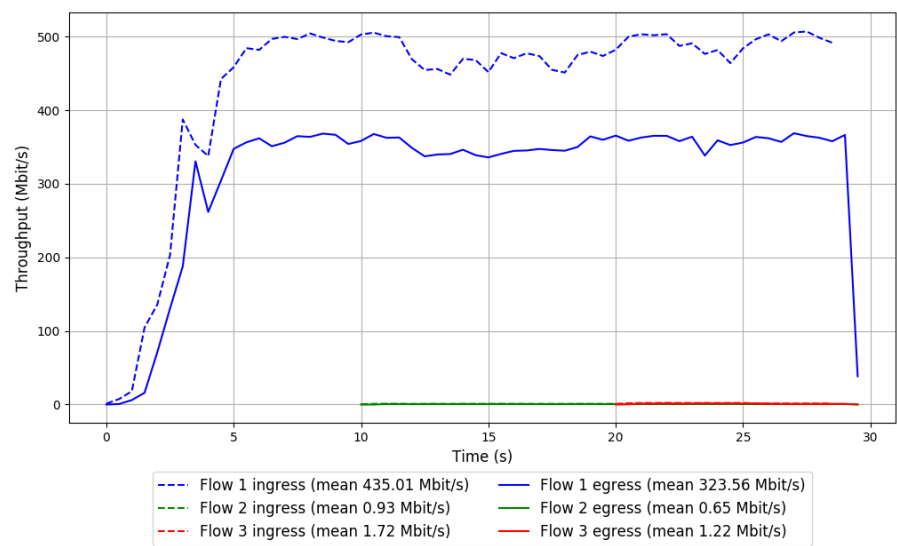


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-21 13:12:57
End at: 2019-01-21 13:13:27
Local clock offset: -0.386 ms
Remote clock offset: -38.274 ms

Below is generated by plot.py at 2019-01-21 14:38:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.34 Mbit/s
95th percentile per-packet one-way delay: 65.477 ms
Loss rate: 25.63%
-- Flow 1:
Average throughput: 323.56 Mbit/s
95th percentile per-packet one-way delay: 65.478 ms
Loss rate: 25.62%
-- Flow 2:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 65.257 ms
Loss rate: 30.50%
-- Flow 3:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 65.205 ms
Loss rate: 28.84%

Run 4: Report of Indigo-MusesC5 — Data Link

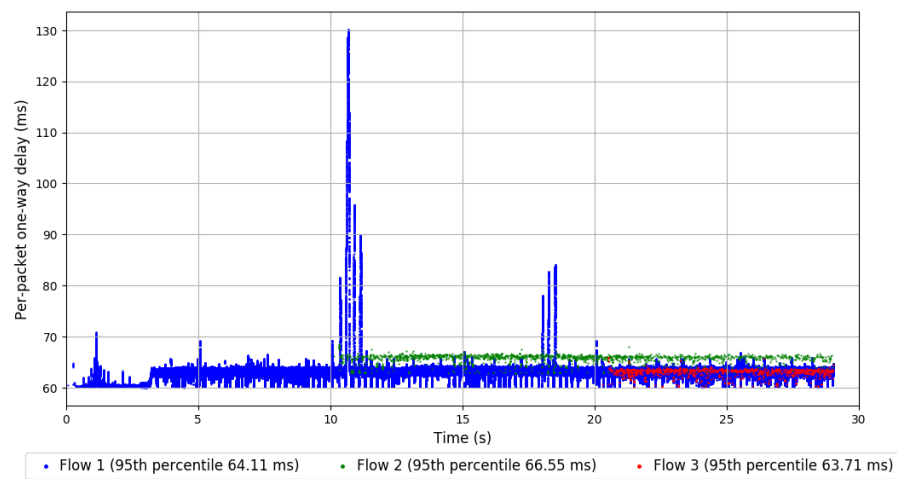
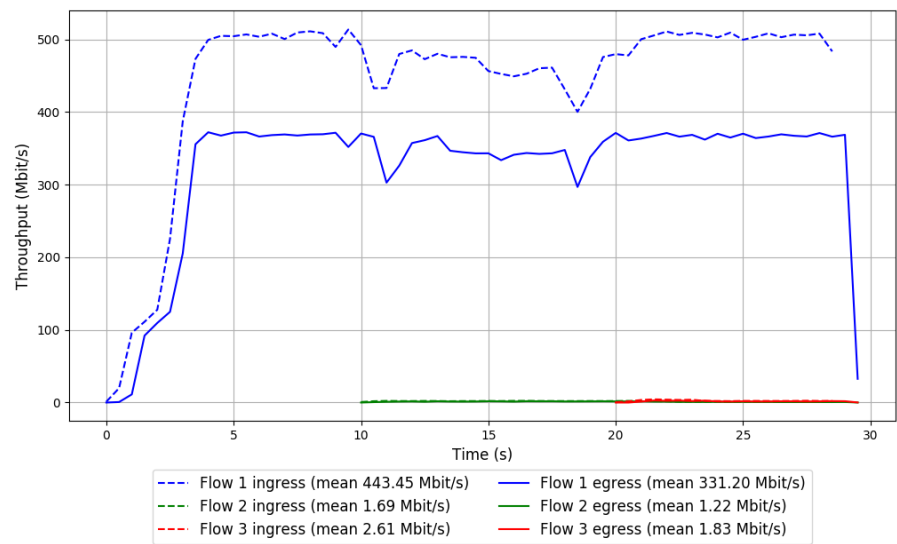


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-21 13:48:56
End at: 2019-01-21 13:49:26
Local clock offset: -3.029 ms
Remote clock offset: -39.616 ms

Below is generated by plot.py at 2019-01-21 14:38:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 332.53 Mbit/s
95th percentile per-packet one-way delay: 64.140 ms
Loss rate: 25.32%
-- Flow 1:
Average throughput: 331.20 Mbit/s
95th percentile per-packet one-way delay: 64.108 ms
Loss rate: 25.31%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 66.546 ms
Loss rate: 27.76%
-- Flow 3:
Average throughput: 1.83 Mbit/s
95th percentile per-packet one-way delay: 63.714 ms
Loss rate: 30.09%

Run 5: Report of Indigo-MusesC5 — Data Link

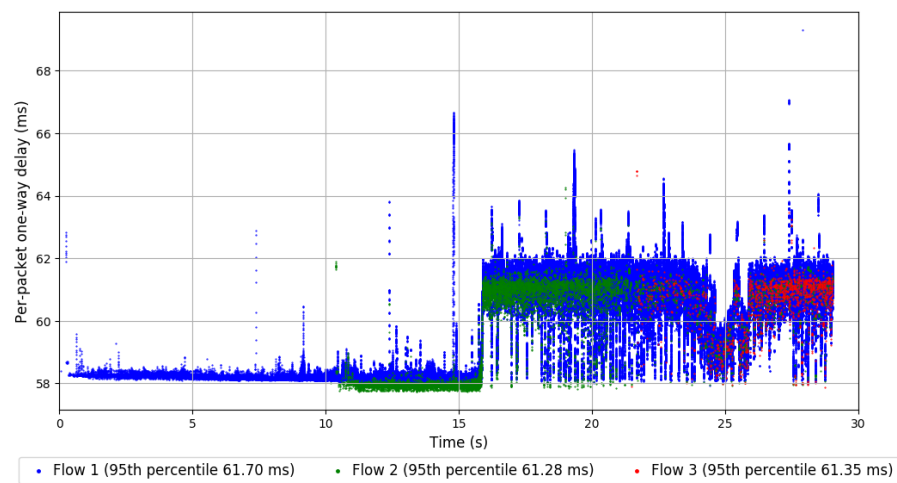
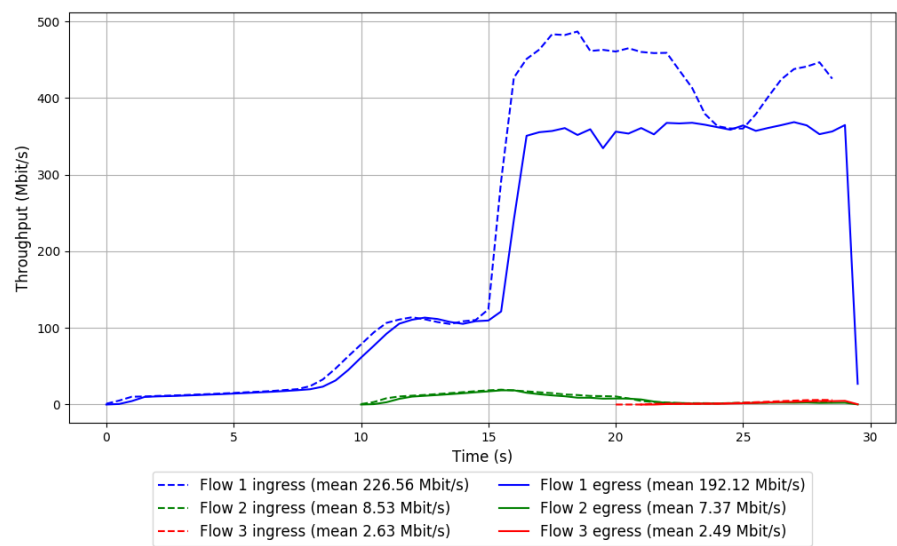



```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-21 10:58:07
End at: 2019-01-21 10:58:37
Local clock offset: -0.306 ms
Remote clock offset: -41.858 ms

# Below is generated by plot.py at 2019-01-21 14:38:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 197.56 Mbit/s
95th percentile per-packet one-way delay: 61.691 ms
Loss rate: 15.16%
-- Flow 1:
Average throughput: 192.12 Mbit/s
95th percentile per-packet one-way delay: 61.697 ms
Loss rate: 15.20%
-- Flow 2:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 61.279 ms
Loss rate: 13.55%
-- Flow 3:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 61.348 ms
Loss rate: 16.21%
```

Run 1: Report of Indigo-MusesD — Data Link

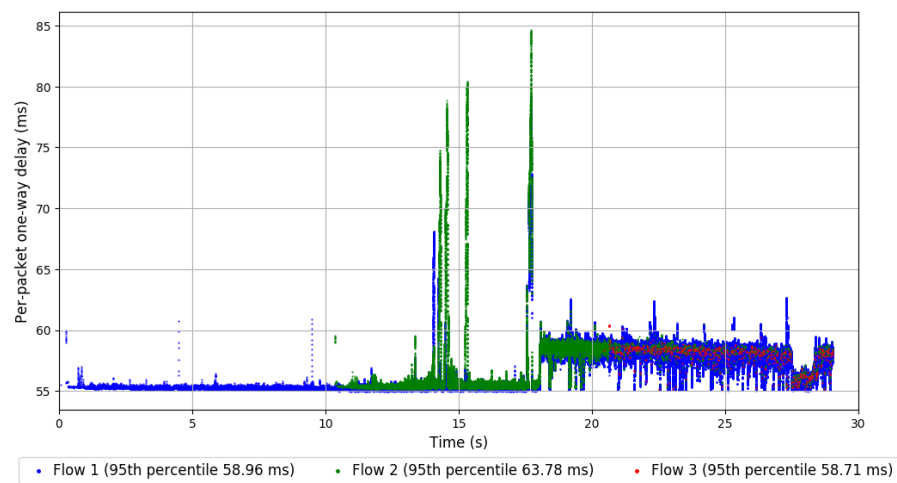
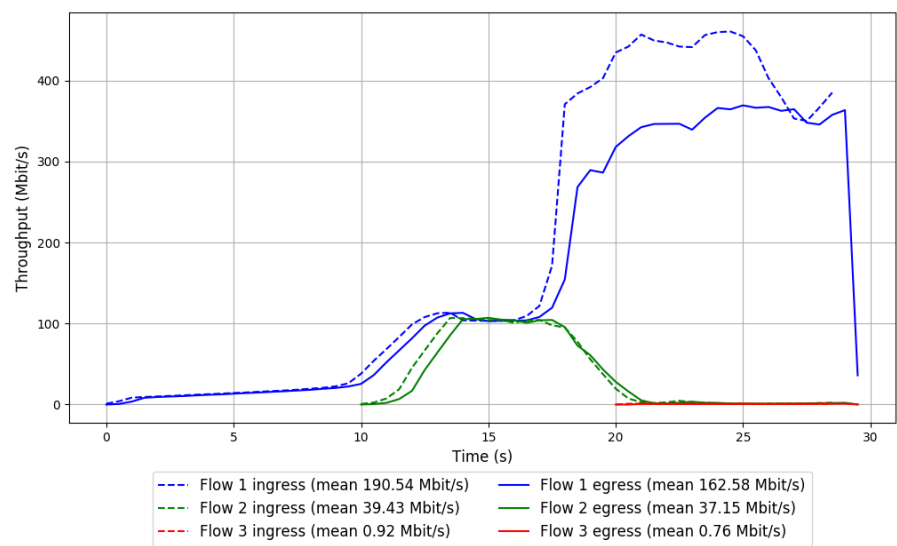


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-21 11:28:28
End at: 2019-01-21 11:28:58
Local clock offset: -2.353 ms
Remote clock offset: -44.52 ms

Below is generated by plot.py at 2019-01-21 14:38:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 187.02 Mbit/s
95th percentile per-packet one-way delay: 58.987 ms
Loss rate: 13.61%
-- Flow 1:
Average throughput: 162.58 Mbit/s
95th percentile per-packet one-way delay: 58.958 ms
Loss rate: 14.66%
-- Flow 2:
Average throughput: 37.15 Mbit/s
95th percentile per-packet one-way delay: 63.784 ms
Loss rate: 5.78%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 58.712 ms
Loss rate: 16.86%

Run 2: Report of Indigo-MusesD — Data Link

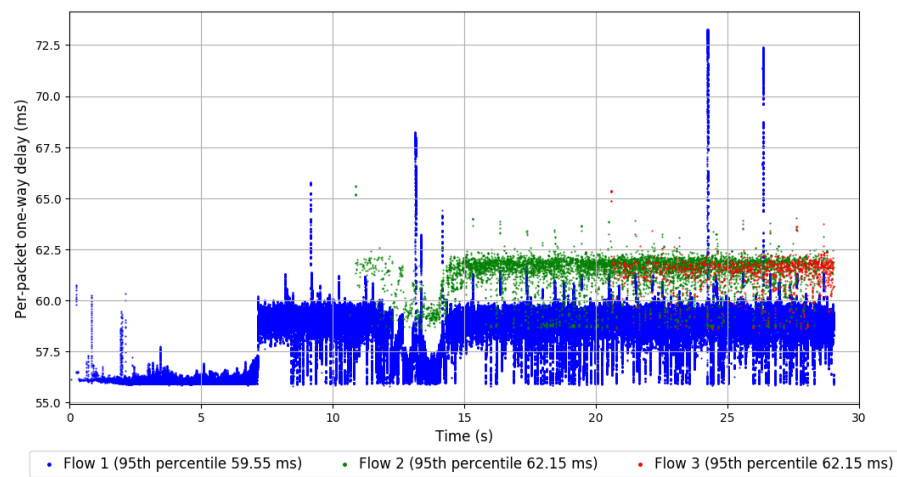
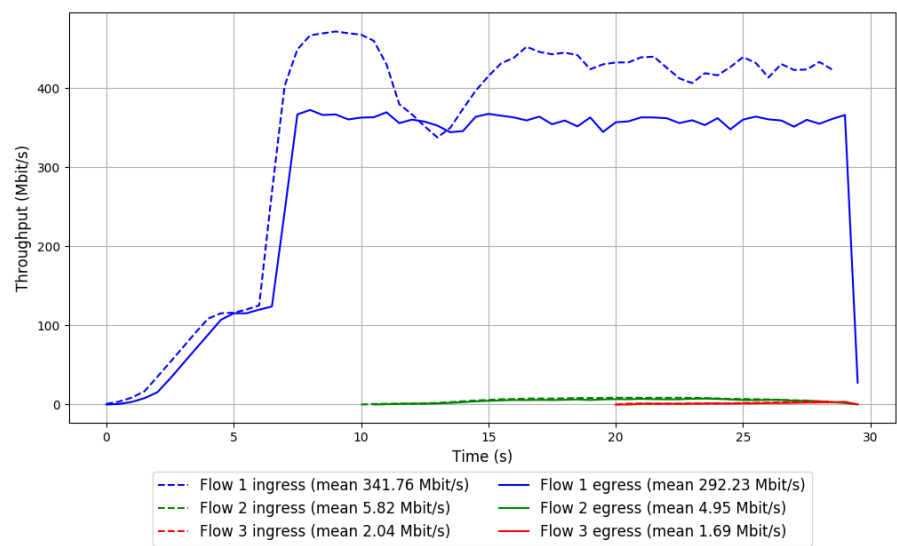


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-21 12:19:58
End at: 2019-01-21 12:20:28
Local clock offset: -2.334 ms
Remote clock offset: -44.895 ms

Below is generated by plot.py at 2019-01-21 14:38:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.87 Mbit/s
95th percentile per-packet one-way delay: 59.621 ms
Loss rate: 14.53%
-- Flow 1:
Average throughput: 292.23 Mbit/s
95th percentile per-packet one-way delay: 59.553 ms
Loss rate: 14.49%
-- Flow 2:
Average throughput: 4.95 Mbit/s
95th percentile per-packet one-way delay: 62.147 ms
Loss rate: 17.27%
-- Flow 3:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 62.148 ms
Loss rate: 16.89%

Run 3: Report of Indigo-MusesD — Data Link

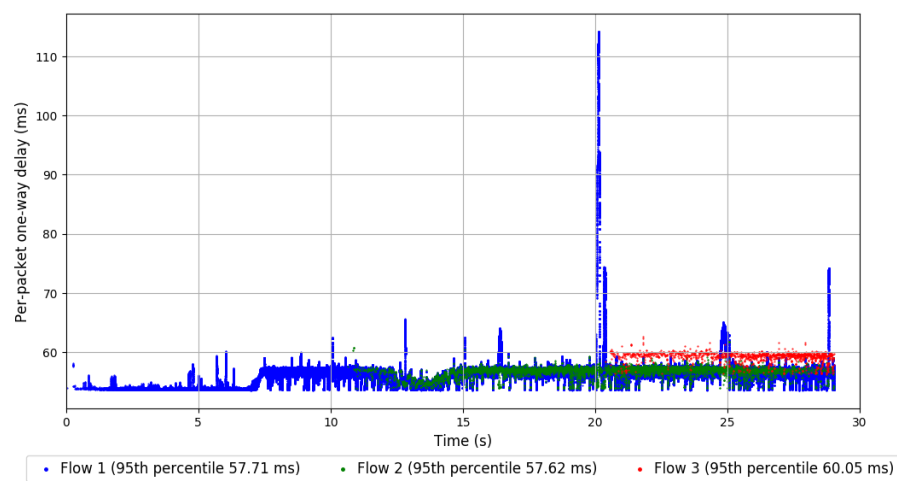
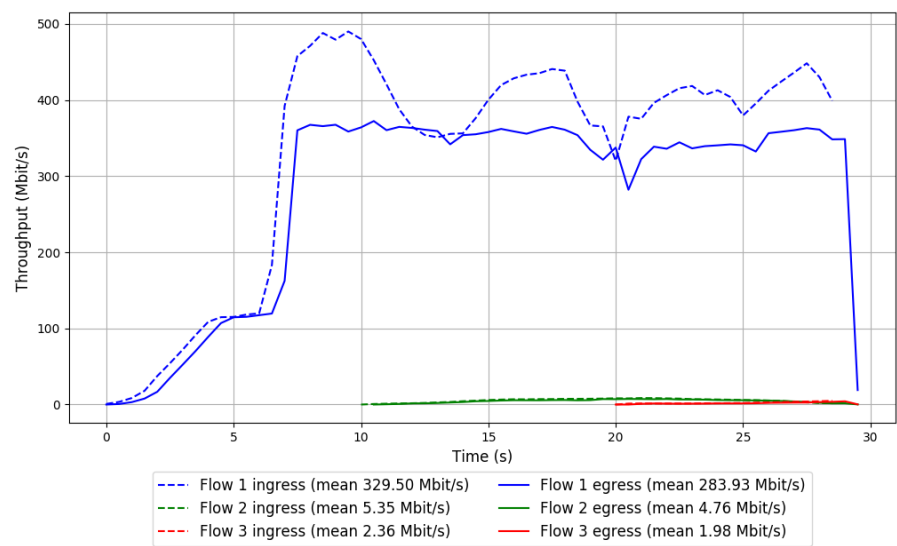


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-21 13:01:36
End at: 2019-01-21 13:02:06
Local clock offset: 0.36 ms
Remote clock offset: -45.135 ms

Below is generated by plot.py at 2019-01-21 14:39:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.54 Mbit/s
95th percentile per-packet one-way delay: 57.750 ms
Loss rate: 13.83%
-- Flow 1:
Average throughput: 283.93 Mbit/s
95th percentile per-packet one-way delay: 57.708 ms
Loss rate: 13.83%
-- Flow 2:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 57.625 ms
Loss rate: 13.48%
-- Flow 3:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 60.052 ms
Loss rate: 16.09%

Run 4: Report of Indigo-MusesD — Data Link

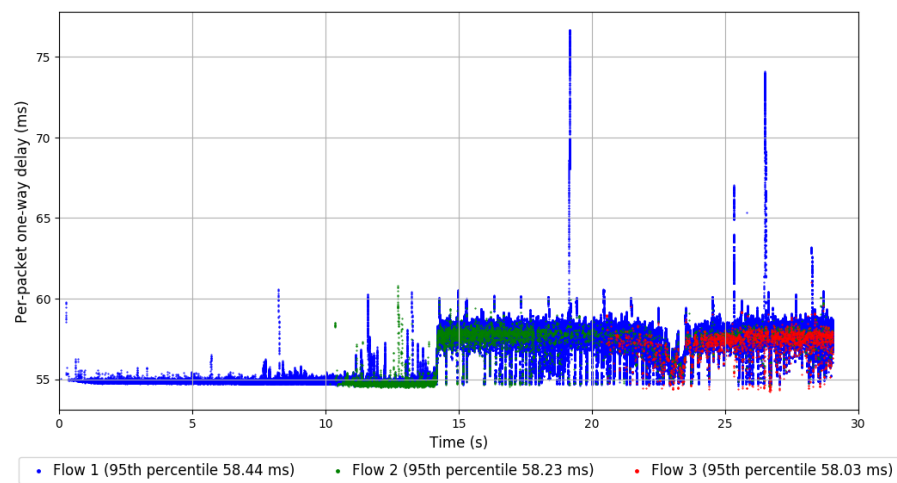
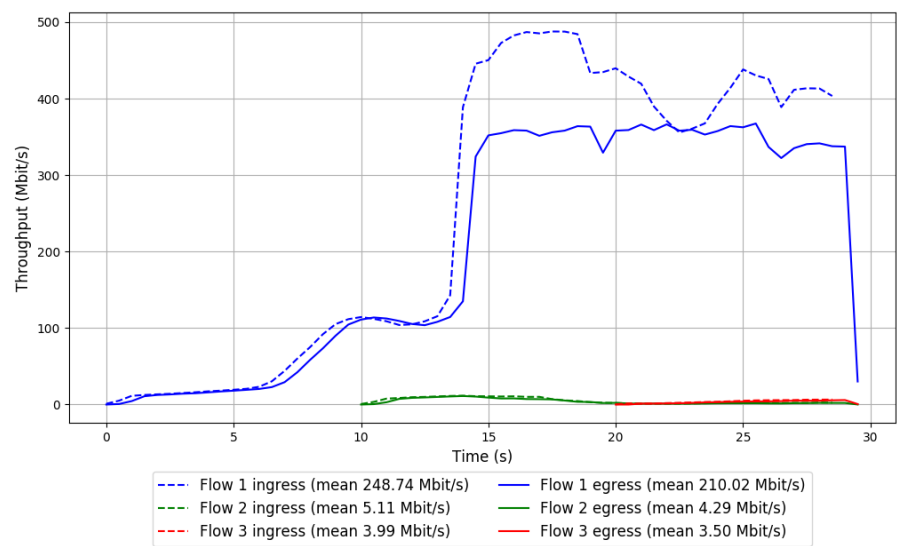


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-21 13:43:21
End at: 2019-01-21 13:43:51
Local clock offset: -3.074 ms
Remote clock offset: -44.867 ms

Below is generated by plot.py at 2019-01-21 14:39:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.86 Mbit/s
95th percentile per-packet one-way delay: 58.436 ms
Loss rate: 15.55%
-- Flow 1:
Average throughput: 210.02 Mbit/s
95th percentile per-packet one-way delay: 58.438 ms
Loss rate: 15.56%
-- Flow 2:
Average throughput: 4.29 Mbit/s
95th percentile per-packet one-way delay: 58.231 ms
Loss rate: 15.95%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 58.032 ms
Loss rate: 12.16%

Run 5: Report of Indigo-MusesD — Data Link

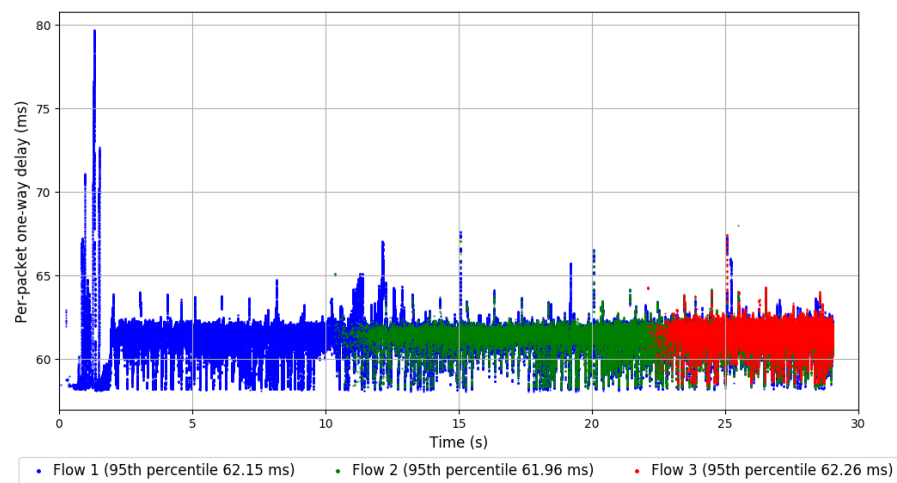
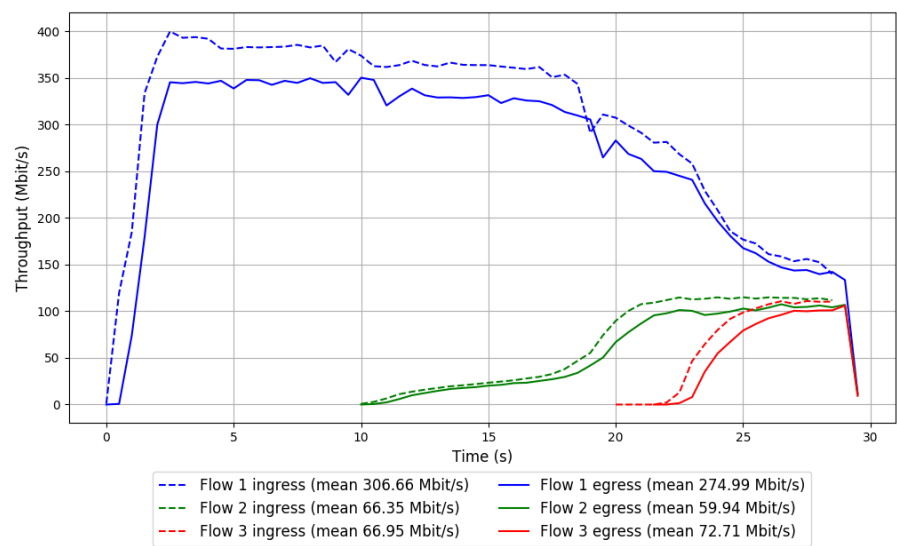


Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-21 11:12:17
End at: 2019-01-21 11:12:47
Local clock offset: 0.735 ms
Remote clock offset: -40.137 ms

Below is generated by plot.py at 2019-01-21 14:40:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 332.00 Mbit/s
95th percentile per-packet one-way delay: 62.137 ms
Loss rate: 10.24%
-- Flow 1:
Average throughput: 274.99 Mbit/s
95th percentile per-packet one-way delay: 62.154 ms
Loss rate: 10.32%
-- Flow 2:
Average throughput: 59.94 Mbit/s
95th percentile per-packet one-way delay: 61.964 ms
Loss rate: 9.66%
-- Flow 3:
Average throughput: 72.71 Mbit/s
95th percentile per-packet one-way delay: 62.257 ms
Loss rate: 10.25%

Run 1: Report of Indigo-MusesT — Data Link

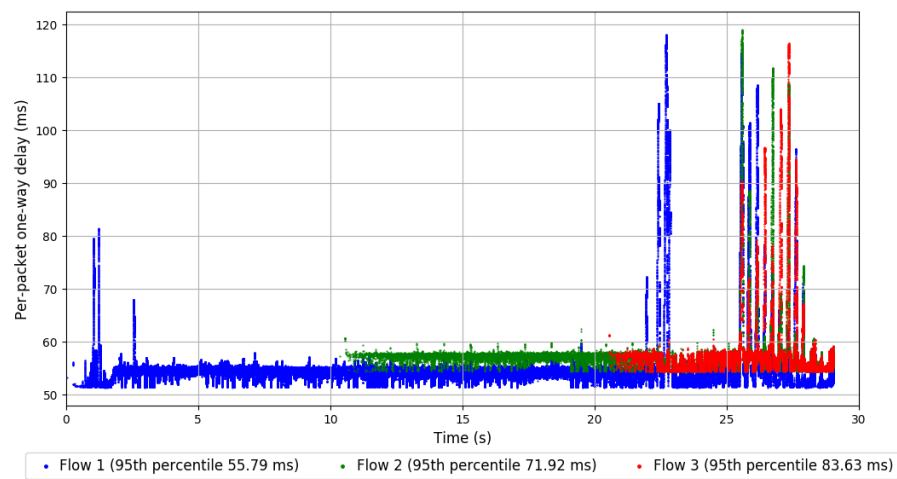
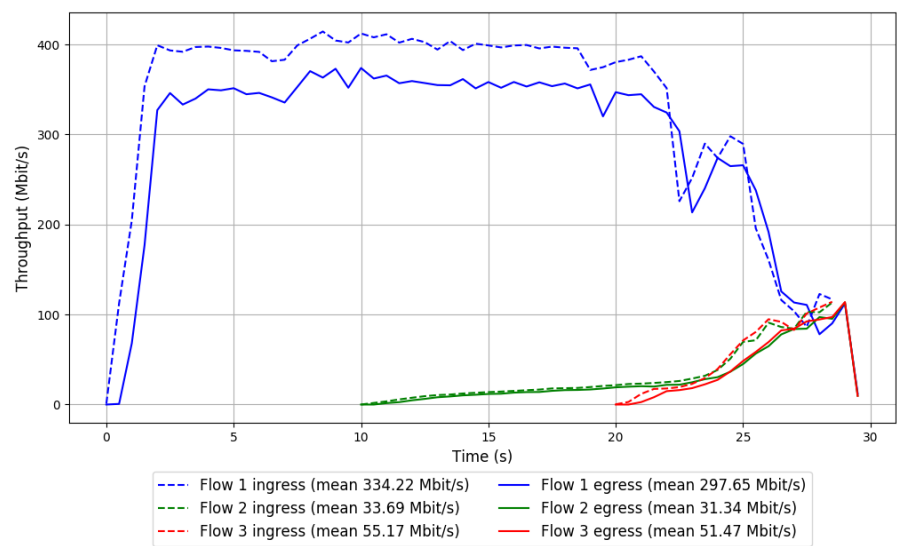


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-21 11:48:09
End at: 2019-01-21 11:48:39
Local clock offset: 0.288 ms
Remote clock offset: -45.164 ms

Below is generated by plot.py at 2019-01-21 14:40:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.23 Mbit/s
95th percentile per-packet one-way delay: 57.757 ms
Loss rate: 10.52%
-- Flow 1:
Average throughput: 297.65 Mbit/s
95th percentile per-packet one-way delay: 55.786 ms
Loss rate: 10.94%
-- Flow 2:
Average throughput: 31.34 Mbit/s
95th percentile per-packet one-way delay: 71.923 ms
Loss rate: 6.96%
-- Flow 3:
Average throughput: 51.47 Mbit/s
95th percentile per-packet one-way delay: 83.628 ms
Loss rate: 6.72%

Run 2: Report of Indigo-MusesT — Data Link

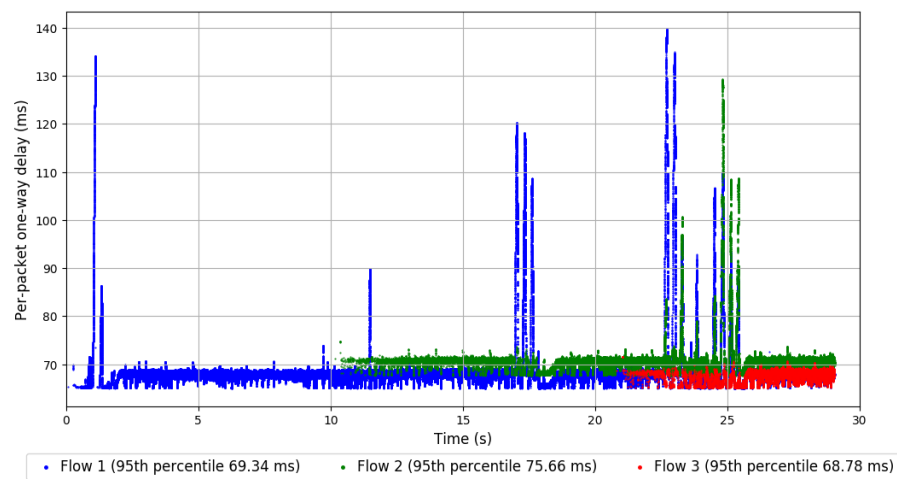
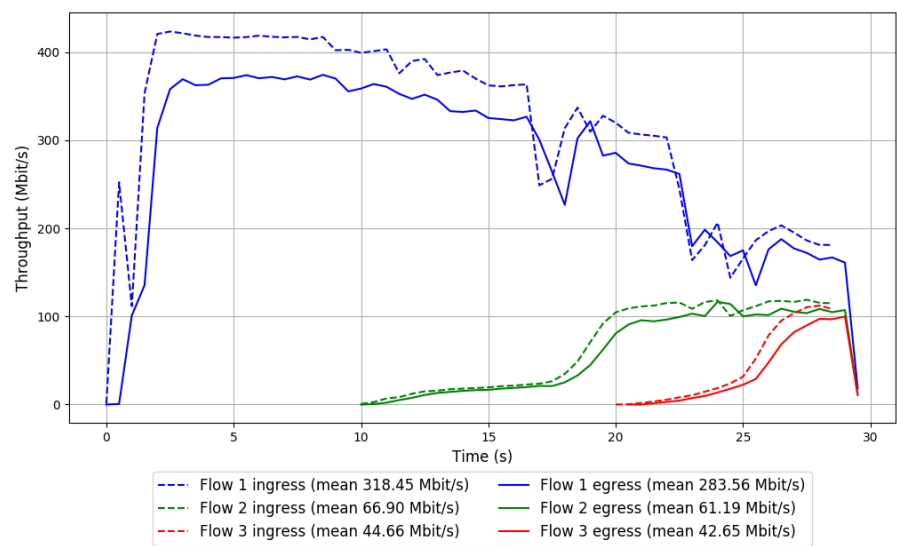


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-21 12:34:12
End at: 2019-01-21 12:34:42
Local clock offset: -0.655 ms
Remote clock offset: -34.302 ms

Below is generated by plot.py at 2019-01-21 14:40:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.54 Mbit/s
95th percentile per-packet one-way delay: 71.203 ms
Loss rate: 10.63%
-- Flow 1:
Average throughput: 283.56 Mbit/s
95th percentile per-packet one-way delay: 69.339 ms
Loss rate: 10.95%
-- Flow 2:
Average throughput: 61.19 Mbit/s
95th percentile per-packet one-way delay: 75.657 ms
Loss rate: 8.54%
-- Flow 3:
Average throughput: 42.65 Mbit/s
95th percentile per-packet one-way delay: 68.778 ms
Loss rate: 9.98%

Run 3: Report of Indigo-MusesT — Data Link

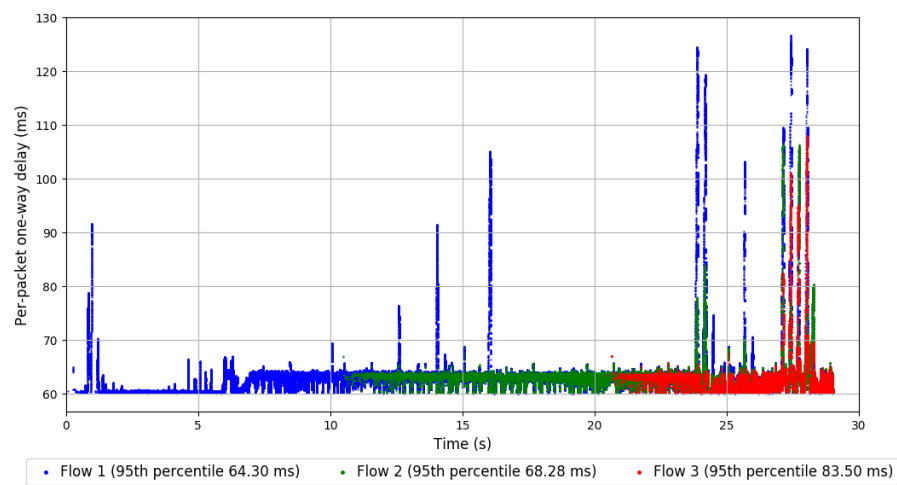
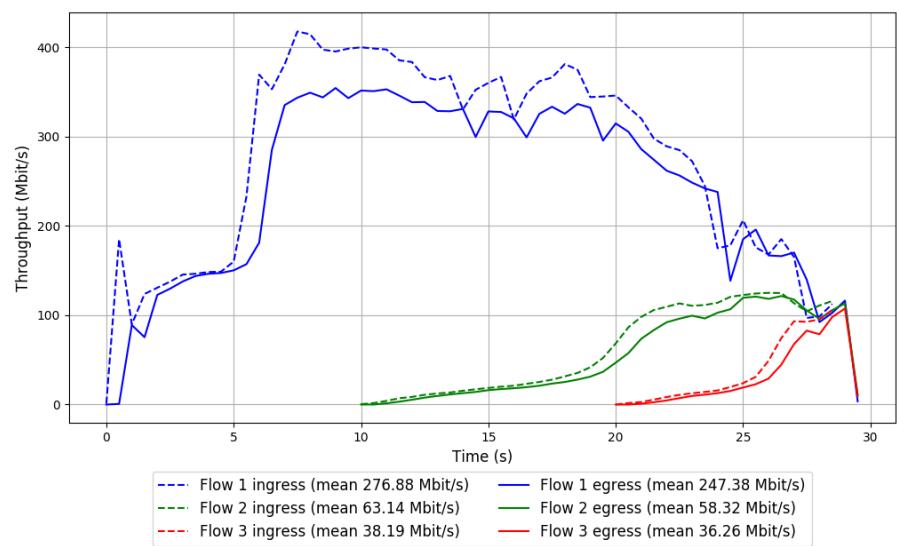


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-21 13:27:09
End at: 2019-01-21 13:27:39
Local clock offset: -0.899 ms
Remote clock offset: -38.086 ms

Below is generated by plot.py at 2019-01-21 14:41:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 295.87 Mbit/s
95th percentile per-packet one-way delay: 64.833 ms
Loss rate: 10.09%
-- Flow 1:
Average throughput: 247.38 Mbit/s
95th percentile per-packet one-way delay: 64.298 ms
Loss rate: 10.65%
-- Flow 2:
Average throughput: 58.32 Mbit/s
95th percentile per-packet one-way delay: 68.284 ms
Loss rate: 7.66%
-- Flow 3:
Average throughput: 36.26 Mbit/s
95th percentile per-packet one-way delay: 83.501 ms
Loss rate: 5.11%

Run 4: Report of Indigo-MusesT — Data Link

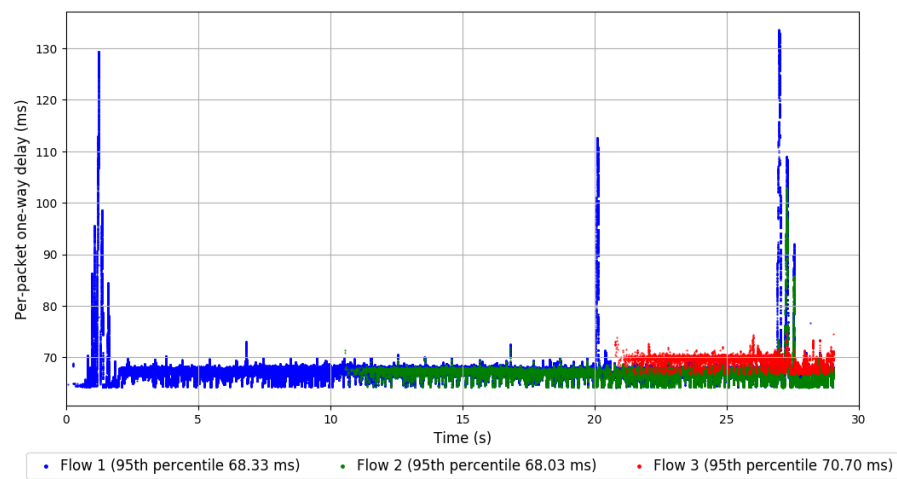
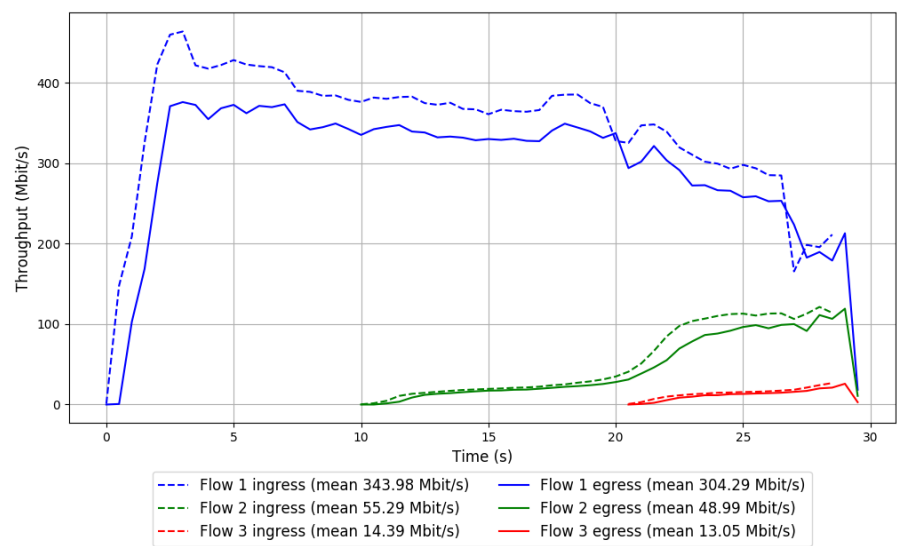


Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-21 14:03:12
End at: 2019-01-21 14:03:42
Local clock offset: -1.504 ms
Remote clock offset: -34.636 ms

Below is generated by plot.py at 2019-01-21 14:41:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 339.65 Mbit/s
95th percentile per-packet one-way delay: 68.465 ms
Loss rate: 11.49%
-- Flow 1:
Average throughput: 304.29 Mbit/s
95th percentile per-packet one-way delay: 68.326 ms
Loss rate: 11.53%
-- Flow 2:
Average throughput: 48.99 Mbit/s
95th percentile per-packet one-way delay: 68.034 ms
Loss rate: 11.38%
-- Flow 3:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 70.702 ms
Loss rate: 9.23%

Run 5: Report of Indigo-MusesT — Data Link

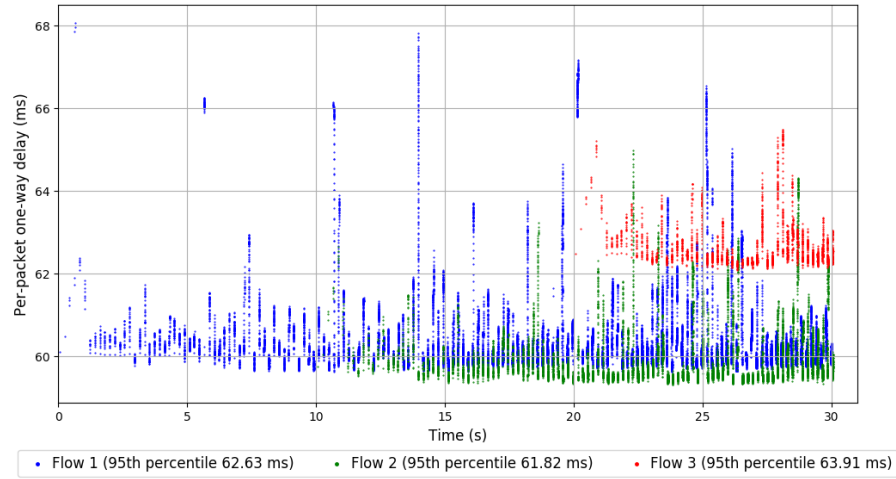
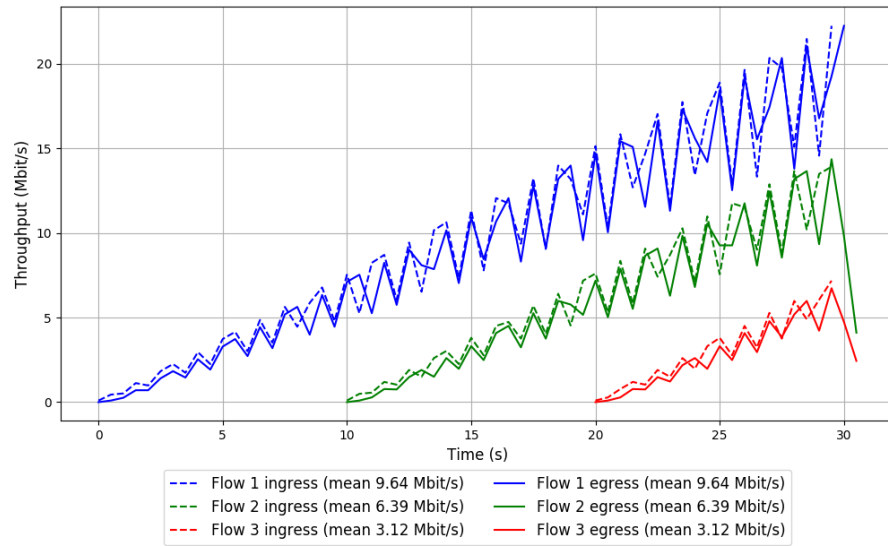


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-21 11:05:12
End at: 2019-01-21 11:05:42
Local clock offset: 0.675 ms
Remote clock offset: -39.054 ms

# Below is generated by plot.py at 2019-01-21 14:41:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 62.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 62.627 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 61.821 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 63.905 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

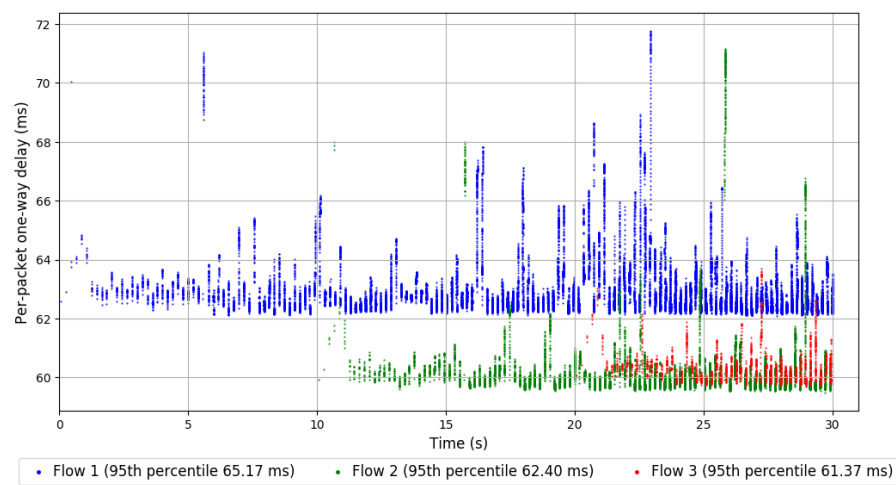
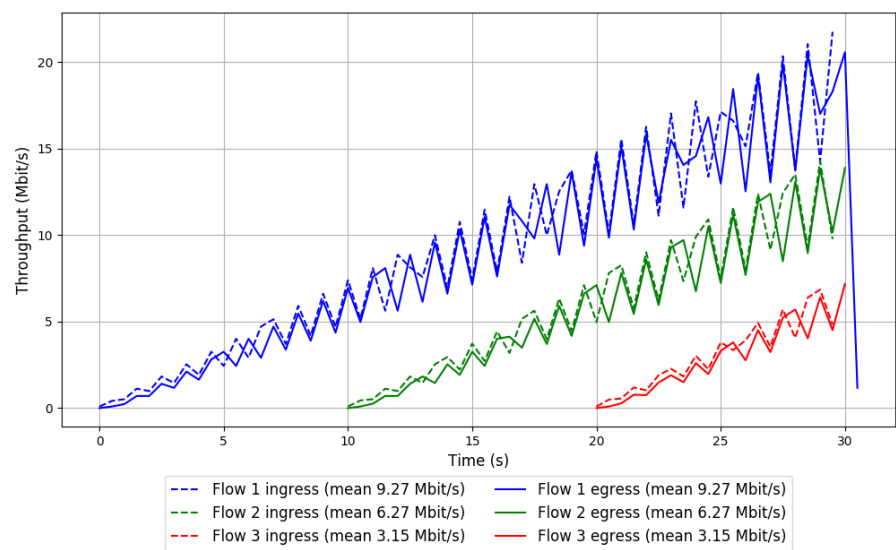


Run 2: Statistics of LEDBAT

Start at: 2019-01-21 11:35:36
End at: 2019-01-21 11:36:06
Local clock offset: -0.629 ms
Remote clock offset: -37.833 ms

Below is generated by plot.py at 2019-01-21 14:41:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 64.747 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.27 Mbit/s
95th percentile per-packet one-way delay: 65.170 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 62.404 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.15 Mbit/s
95th percentile per-packet one-way delay: 61.374 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

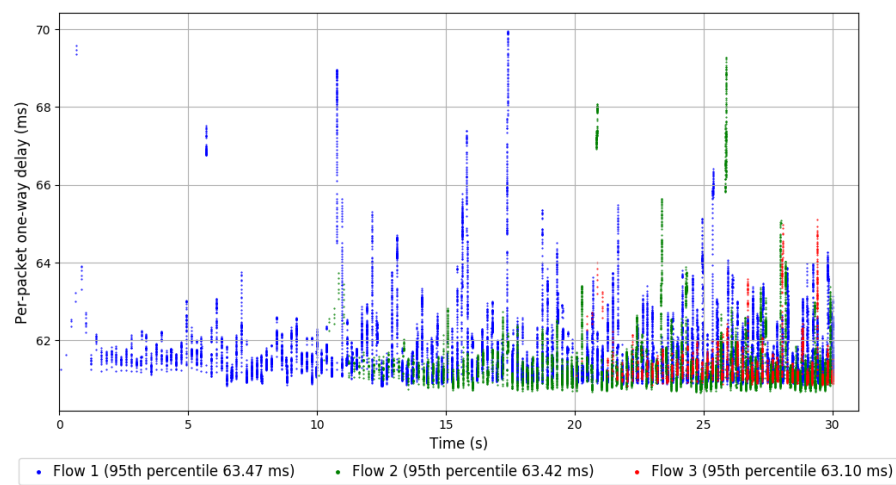
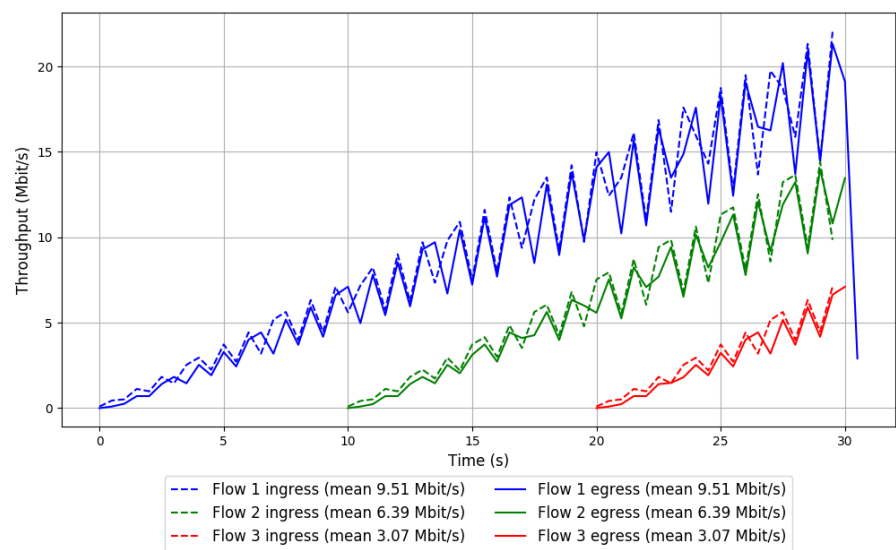


Run 3: Statistics of LEDBAT

Start at: 2019-01-21 12:27:08
End at: 2019-01-21 12:27:38
Local clock offset: 0.125 ms
Remote clock offset: -37.579 ms

Below is generated by plot.py at 2019-01-21 14:41:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.76 Mbit/s
95th percentile per-packet one-way delay: 63.430 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 63.465 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 63.418 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 63.105 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

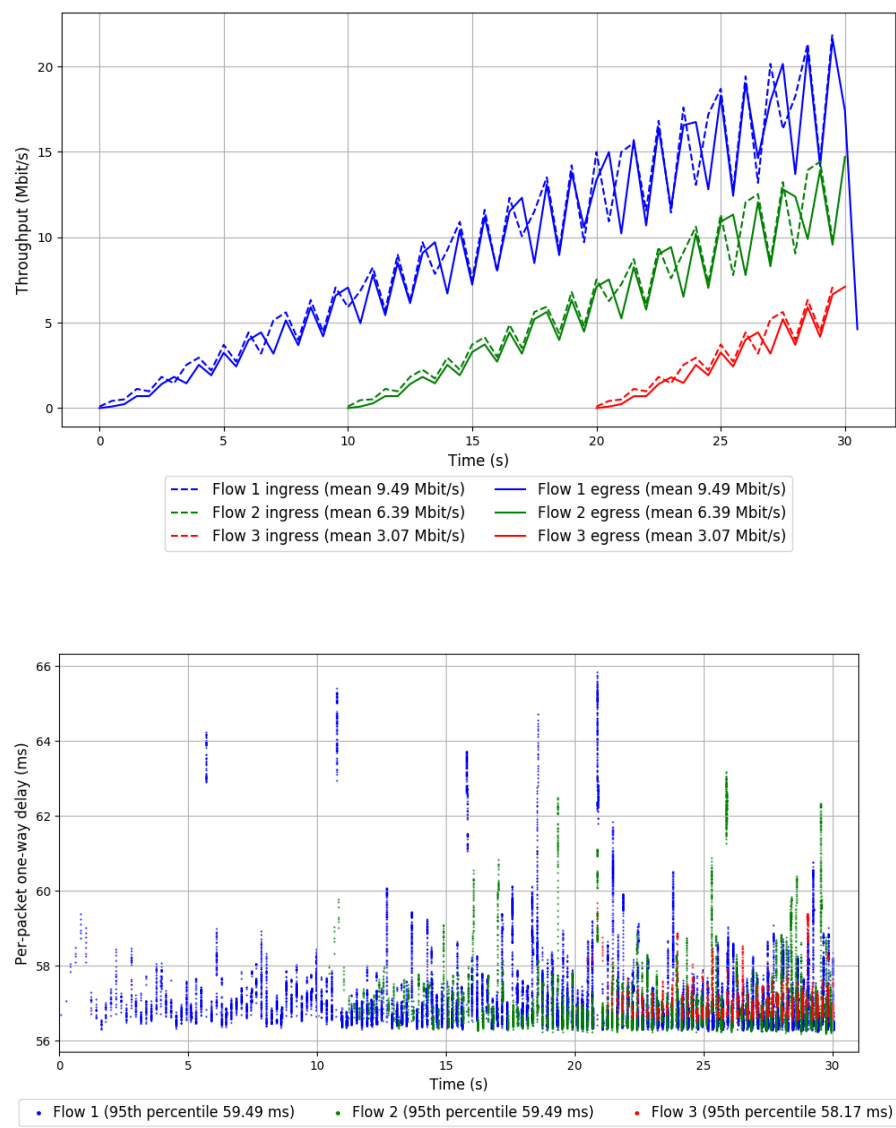


Run 4: Statistics of LEDBAT

Start at: 2019-01-21 13:19:58
End at: 2019-01-21 13:20:28
Local clock offset: 0.421 ms
Remote clock offset: -41.556 ms

Below is generated by plot.py at 2019-01-21 14:41:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.74 Mbit/s
95th percentile per-packet one-way delay: 59.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 59.491 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 59.495 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 58.175 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

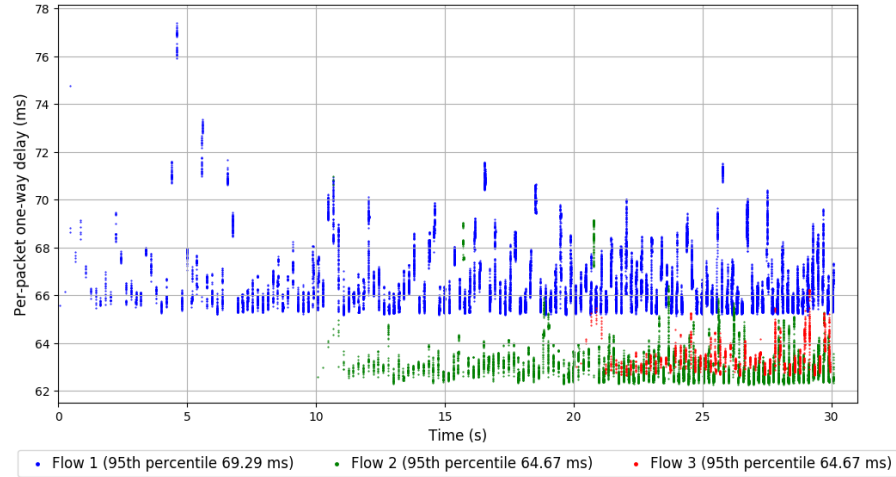
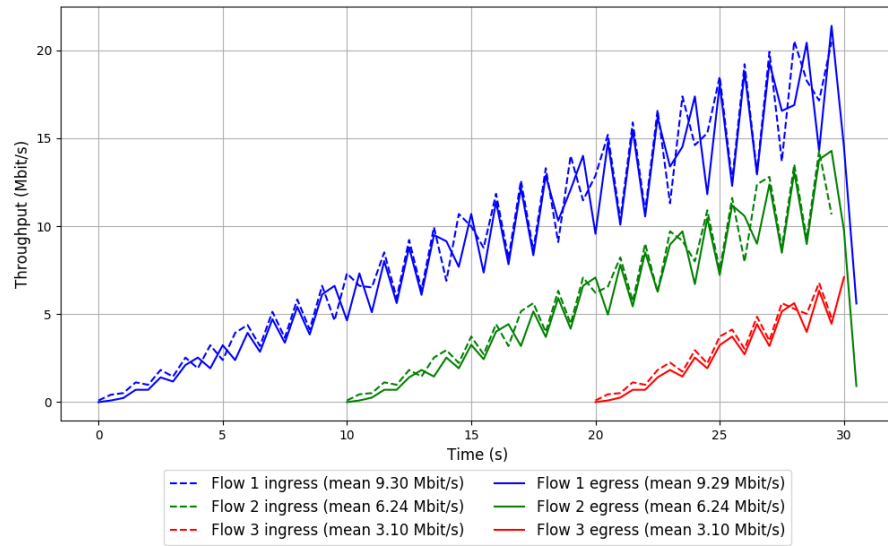


Run 5: Statistics of LEDBAT

Start at: 2019-01-21 13:50:31
End at: 2019-01-21 13:51:01
Local clock offset: -4.679 ms
Remote clock offset: -38.931 ms

Below is generated by plot.py at 2019-01-21 14:41:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.47 Mbit/s
95th percentile per-packet one-way delay: 68.653 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 69.290 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 64.675 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 64.666 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

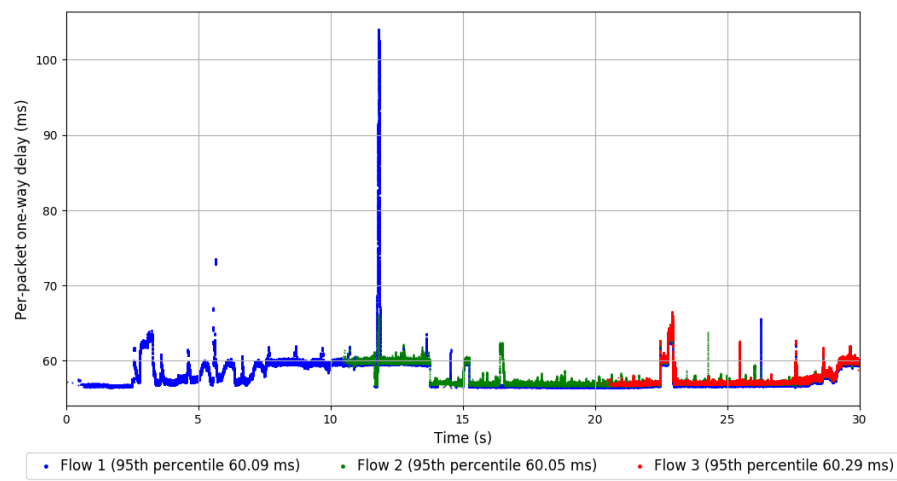
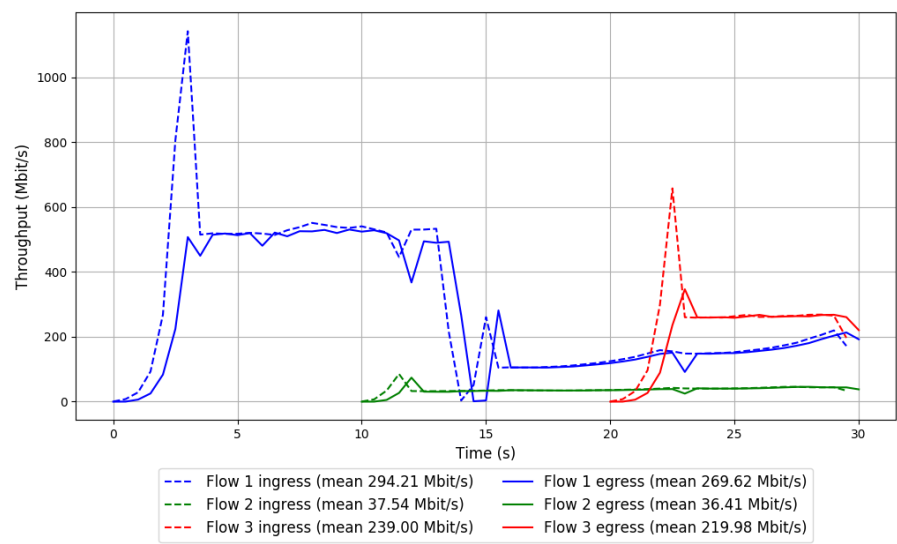


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-21 11:16:42
End at: 2019-01-21 11:17:12
Local clock offset: -2.87 ms
Remote clock offset: -44.981 ms

# Below is generated by plot.py at 2019-01-21 14:43:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 366.41 Mbit/s
95th percentile per-packet one-way delay: 60.150 ms
Loss rate: 7.94%
-- Flow 1:
Average throughput: 269.62 Mbit/s
95th percentile per-packet one-way delay: 60.093 ms
Loss rate: 8.35%
-- Flow 2:
Average throughput: 36.41 Mbit/s
95th percentile per-packet one-way delay: 60.049 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 219.98 Mbit/s
95th percentile per-packet one-way delay: 60.290 ms
Loss rate: 7.94%
```

Run 1: Report of PCC-Allegro — Data Link

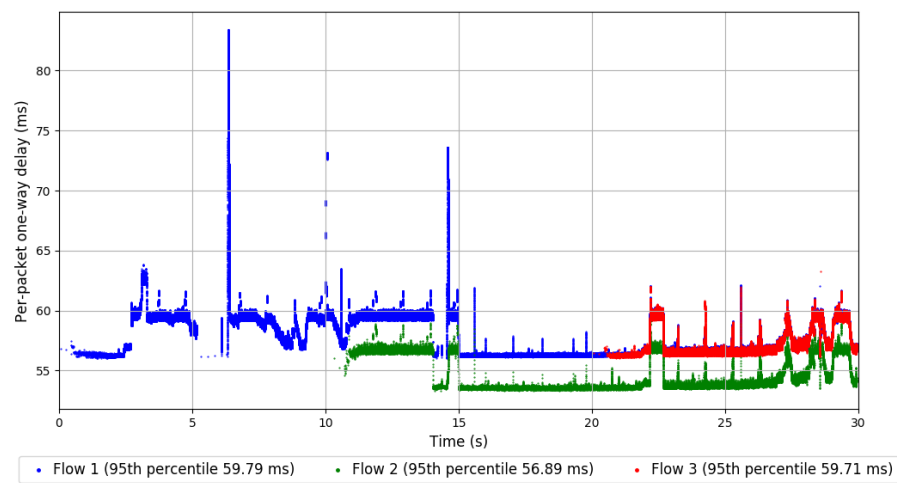
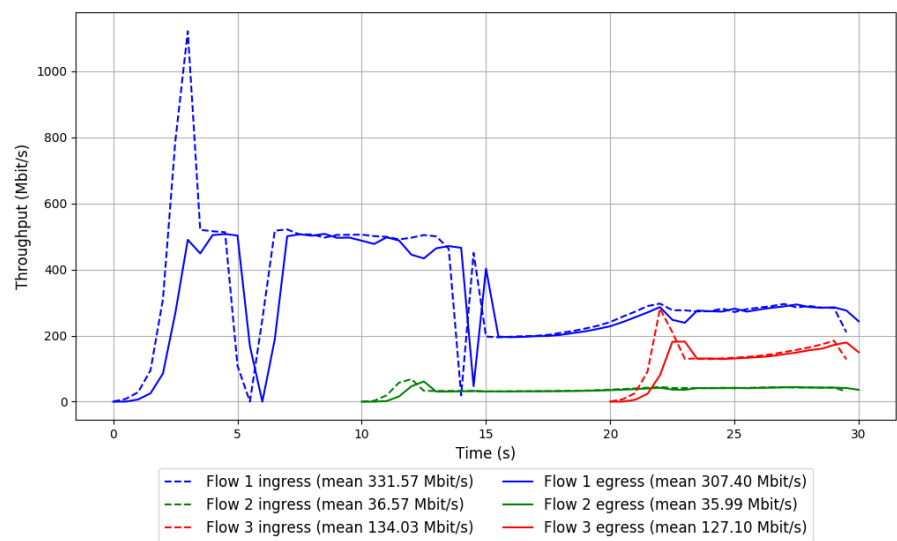


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-21 11:52:36
End at: 2019-01-21 11:53:06
Local clock offset: -0.532 ms
Remote clock offset: -44.646 ms

Below is generated by plot.py at 2019-01-21 14:43:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 372.97 Mbit/s
95th percentile per-packet one-way delay: 59.758 ms
Loss rate: 6.79%
-- Flow 1:
Average throughput: 307.40 Mbit/s
95th percentile per-packet one-way delay: 59.794 ms
Loss rate: 7.29%
-- Flow 2:
Average throughput: 35.99 Mbit/s
95th percentile per-packet one-way delay: 56.889 ms
Loss rate: 2.84%
-- Flow 3:
Average throughput: 127.10 Mbit/s
95th percentile per-packet one-way delay: 59.708 ms
Loss rate: 5.17%

Run 2: Report of PCC-Allegro — Data Link

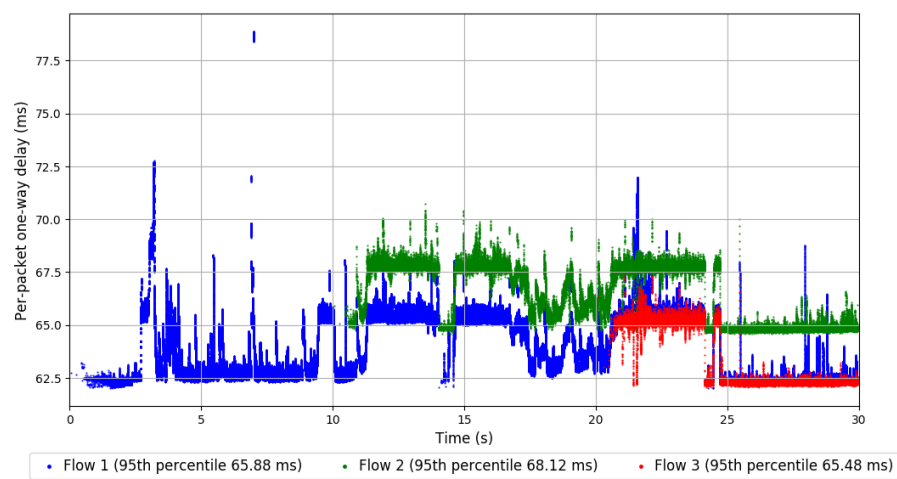
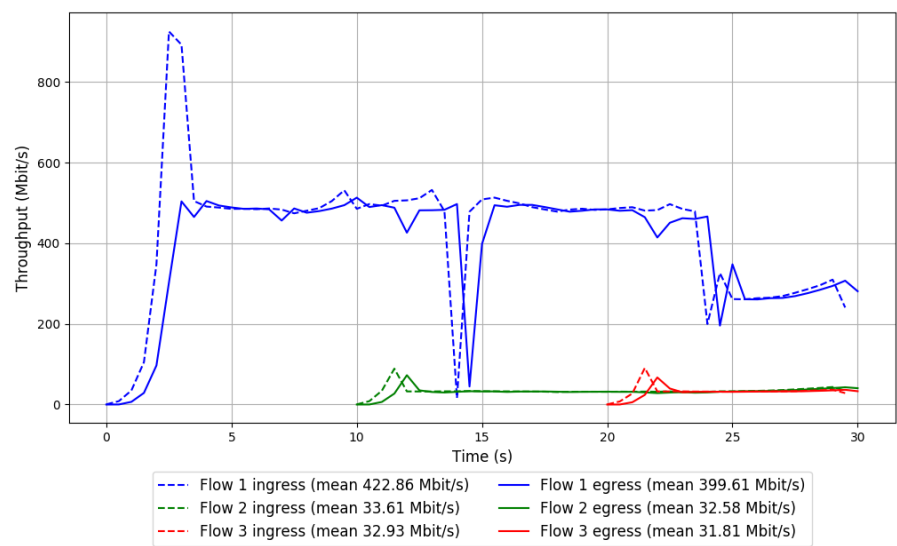


Run 3: Statistics of PCC-Allegro

Start at: 2019-01-21 12:38:37
End at: 2019-01-21 12:39:07
Local clock offset: -2.221 ms
Remote clock offset: -38.737 ms

Below is generated by plot.py at 2019-01-21 14:44:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 431.74 Mbit/s
95th percentile per-packet one-way delay: 66.513 ms
Loss rate: 5.33%
-- Flow 1:
Average throughput: 399.61 Mbit/s
95th percentile per-packet one-way delay: 65.880 ms
Loss rate: 5.50%
-- Flow 2:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 68.125 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 31.81 Mbit/s
95th percentile per-packet one-way delay: 65.483 ms
Loss rate: 3.44%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-21 13:31:33

End at: 2019-01-21 13:32:03

Local clock offset: -4.314 ms

Remote clock offset: -44.403 ms

Below is generated by plot.py at 2019-01-21 14:45:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 460.77 Mbit/s

95th percentile per-packet one-way delay: 61.060 ms

Loss rate: 5.05%

-- Flow 1:

Average throughput: 421.03 Mbit/s

95th percentile per-packet one-way delay: 61.247 ms

Loss rate: 5.06%

-- Flow 2:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 60.641 ms

Loss rate: 3.67%

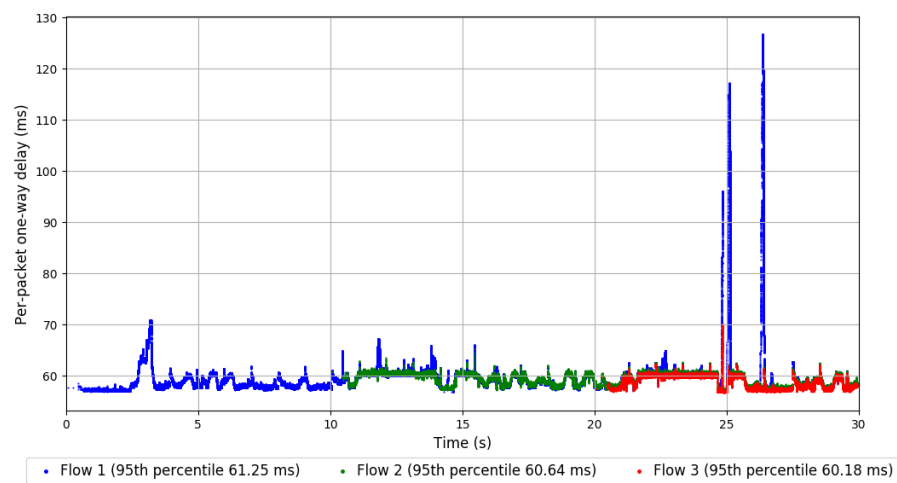
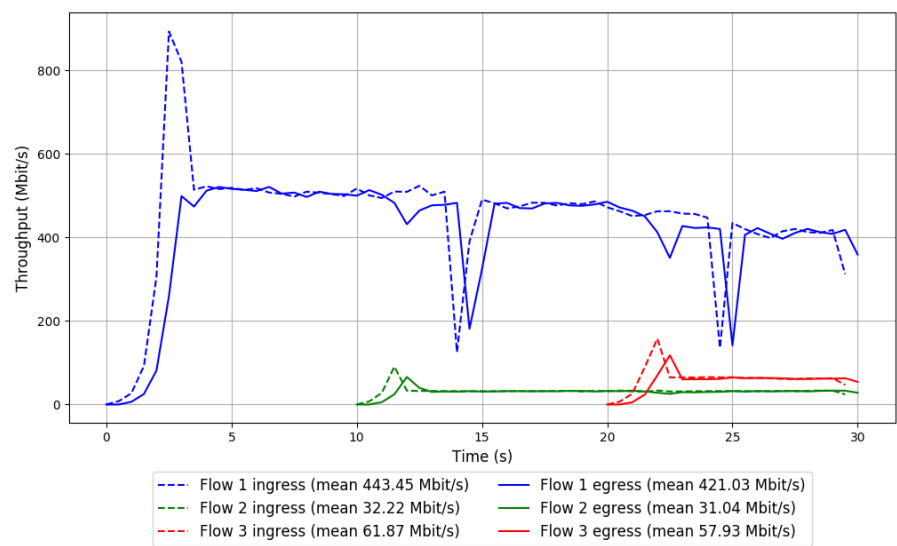
-- Flow 3:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 60.181 ms

Loss rate: 6.36%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-21 14:07:38

End at: 2019-01-21 14:08:08

Local clock offset: -1.753 ms

Remote clock offset: -38.244 ms

Below is generated by plot.py at 2019-01-21 14:45:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 430.40 Mbit/s

95th percentile per-packet one-way delay: 64.431 ms

Loss rate: 5.75%

-- Flow 1:

Average throughput: 385.52 Mbit/s

95th percentile per-packet one-way delay: 64.127 ms

Loss rate: 5.95%

-- Flow 2:

Average throughput: 34.15 Mbit/s

95th percentile per-packet one-way delay: 66.670 ms

Loss rate: 2.82%

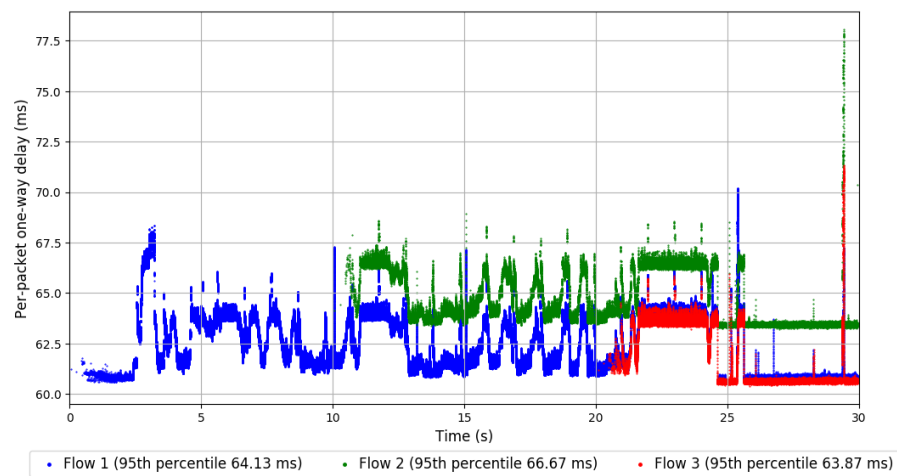
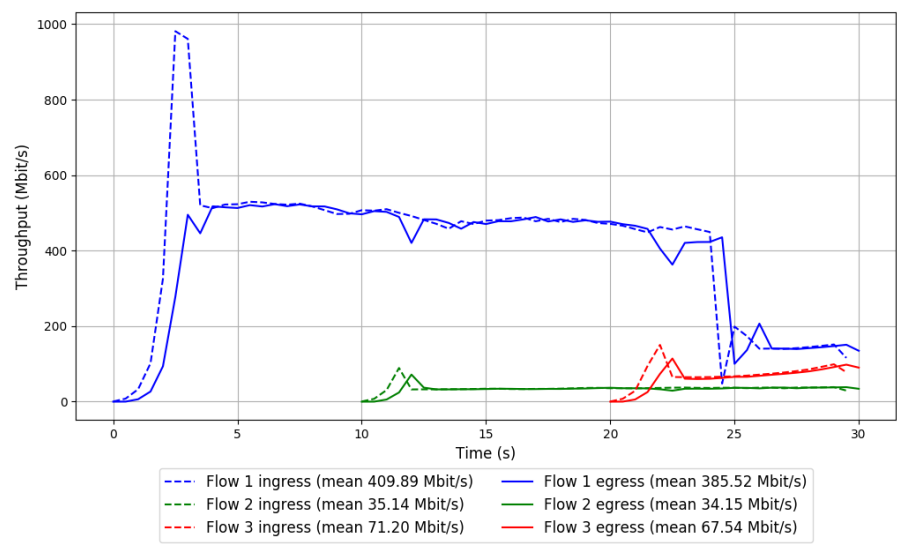
-- Flow 3:

Average throughput: 67.54 Mbit/s

95th percentile per-packet one-way delay: 63.874 ms

Loss rate: 5.14%

Run 5: Report of PCC-Allegro — Data Link

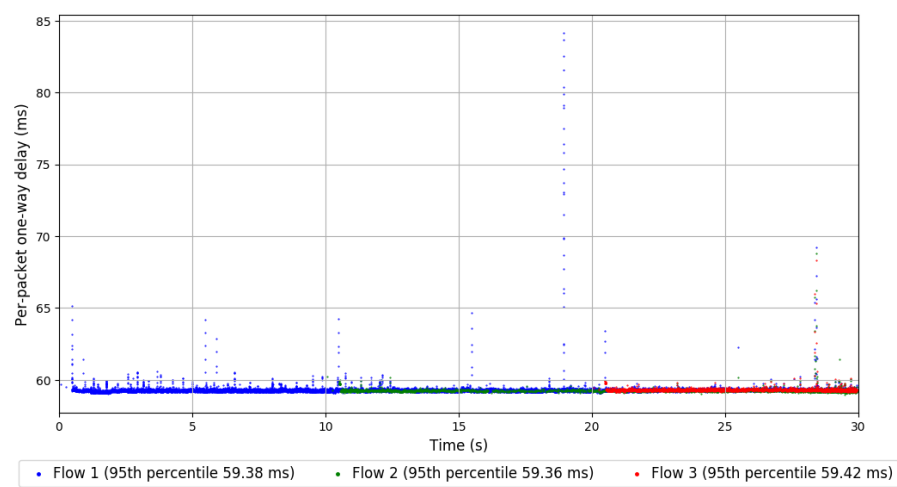
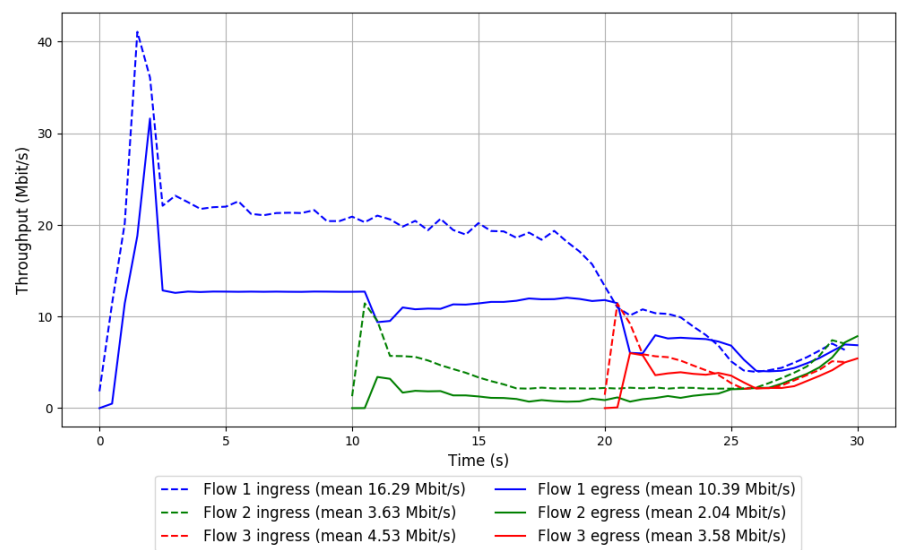



```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-21 11:02:19
End at: 2019-01-21 11:02:49
Local clock offset: 1.198 ms
Remote clock offset: -39.065 ms

# Below is generated by plot.py at 2019-01-21 14:45:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.93 Mbit/s
95th percentile per-packet one-way delay: 59.378 ms
Loss rate: 35.98%
-- Flow 1:
Average throughput: 10.39 Mbit/s
95th percentile per-packet one-way delay: 59.375 ms
Loss rate: 36.19%
-- Flow 2:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 59.363 ms
Loss rate: 43.91%
-- Flow 3:
Average throughput: 3.58 Mbit/s
95th percentile per-packet one-way delay: 59.417 ms
Loss rate: 20.95%
```

Run 1: Report of PCC-Expr — Data Link

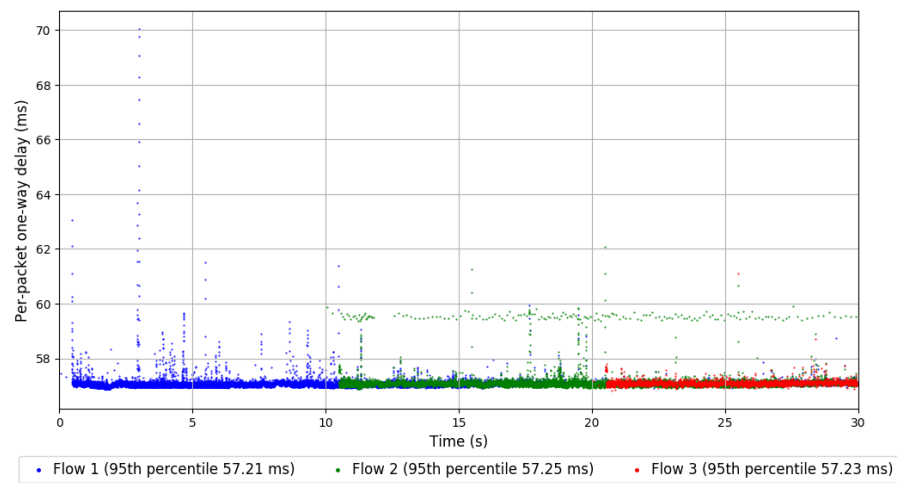
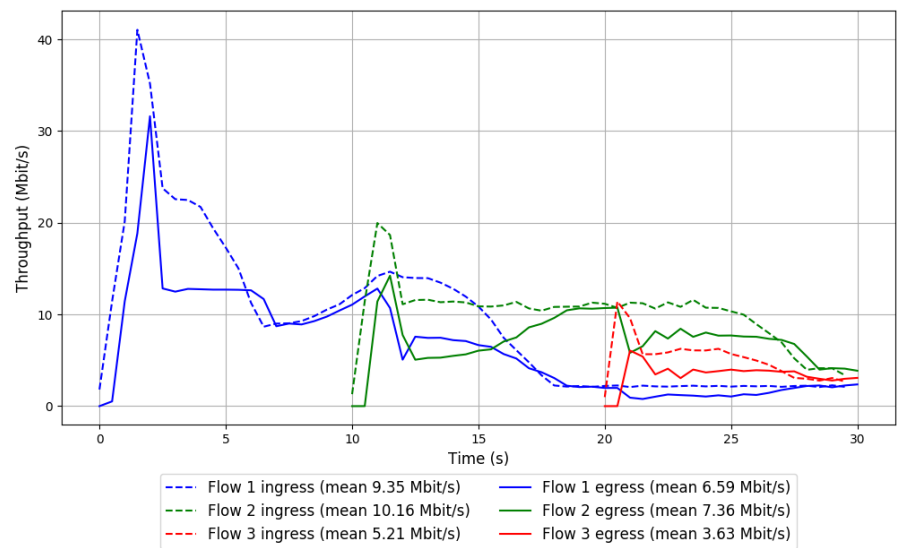


Run 2: Statistics of PCC-Expr

Start at: 2019-01-21 11:32:43
End at: 2019-01-21 11:33:13
Local clock offset: -1.245 ms
Remote clock offset: -41.379 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.68 Mbit/s
95th percentile per-packet one-way delay: 57.230 ms
Loss rate: 28.83%
-- Flow 1:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 57.213 ms
Loss rate: 29.50%
-- Flow 2:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 57.250 ms
Loss rate: 27.55%
-- Flow 3:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 57.227 ms
Loss rate: 30.20%

Run 2: Report of PCC-Expr — Data Link

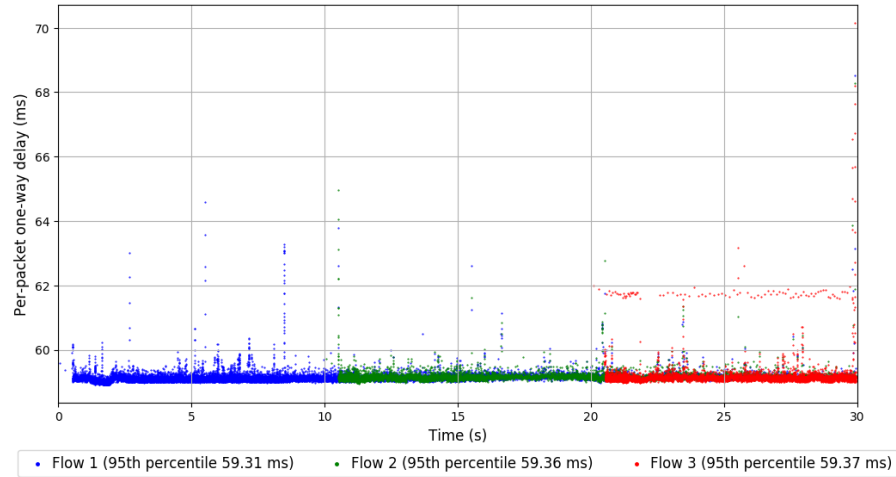
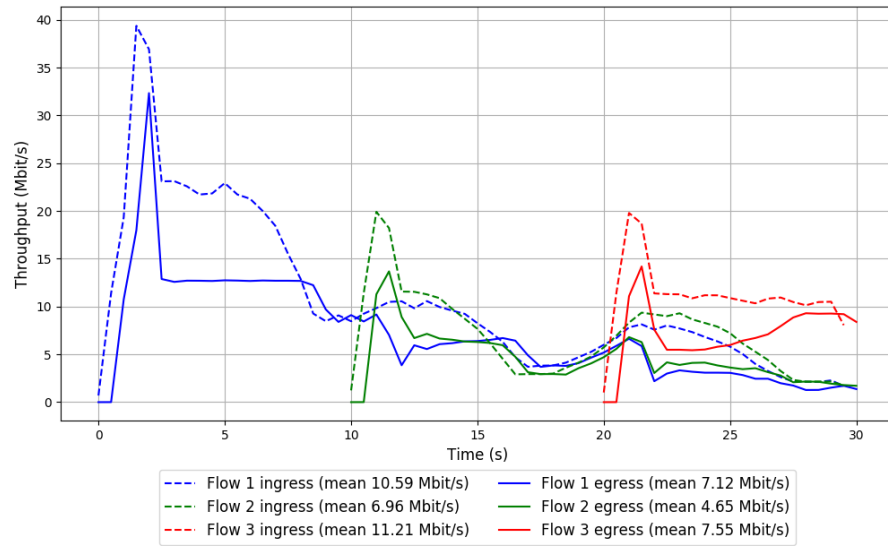


Run 3: Statistics of PCC-Expr

Start at: 2019-01-21 12:24:14
End at: 2019-01-21 12:24:44
Local clock offset: 0.473 ms
Remote clock offset: -39.22 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 59.333 ms
Loss rate: 32.85%
-- Flow 1:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 59.314 ms
Loss rate: 32.76%
-- Flow 2:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 59.363 ms
Loss rate: 33.19%
-- Flow 3:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 59.367 ms
Loss rate: 32.68%

Run 3: Report of PCC-Expr — Data Link

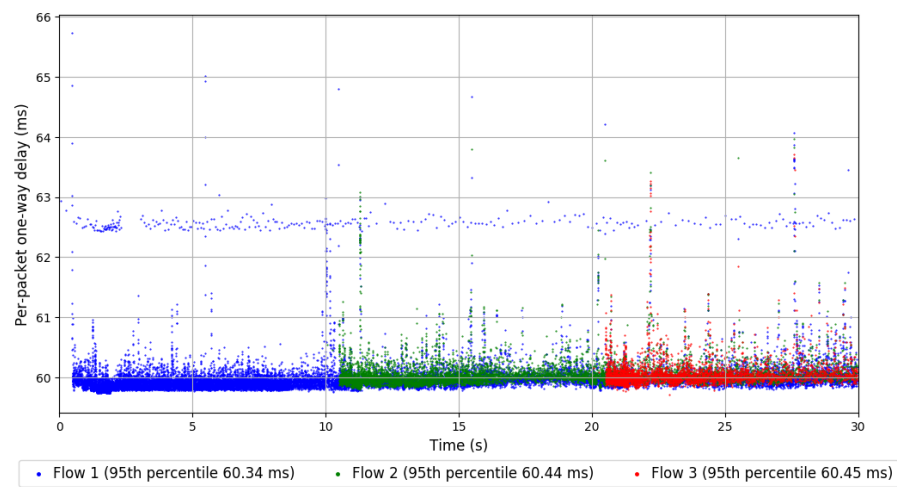
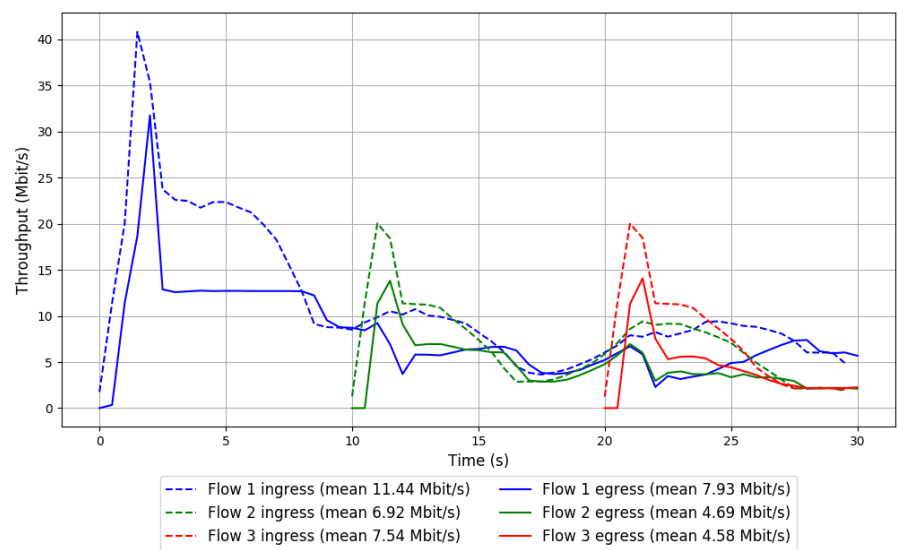


```
Run 4: Statistics of PCC-Expr

Start at: 2019-01-21 13:11:38
End at: 2019-01-21 13:12:08
Local clock offset: -0.318 ms
Remote clock offset: -39.865 ms

# Below is generated by plot.py at 2019-01-21 14:45:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.57 Mbit/s
95th percentile per-packet one-way delay: 60.392 ms
Loss rate: 32.18%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 60.345 ms
Loss rate: 30.66%
-- Flow 2:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 60.437 ms
Loss rate: 32.16%
-- Flow 3:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 60.451 ms
Loss rate: 39.23%
```

Run 4: Report of PCC-Expr — Data Link

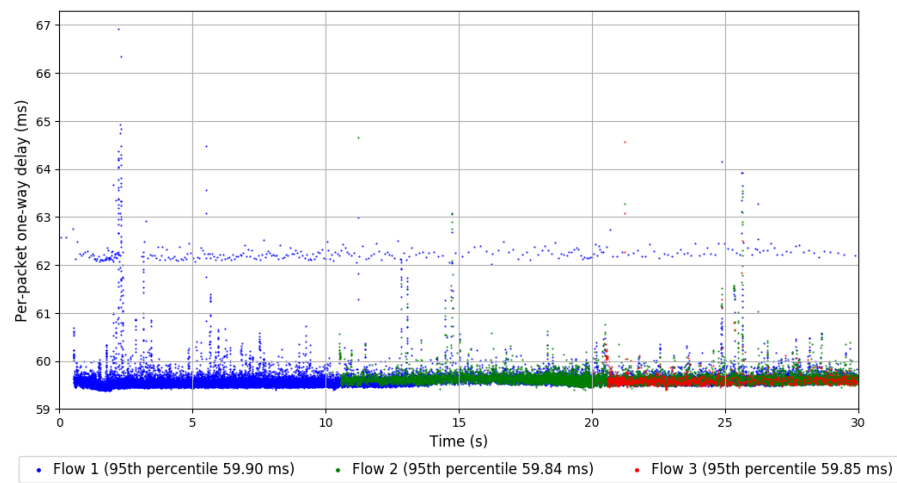
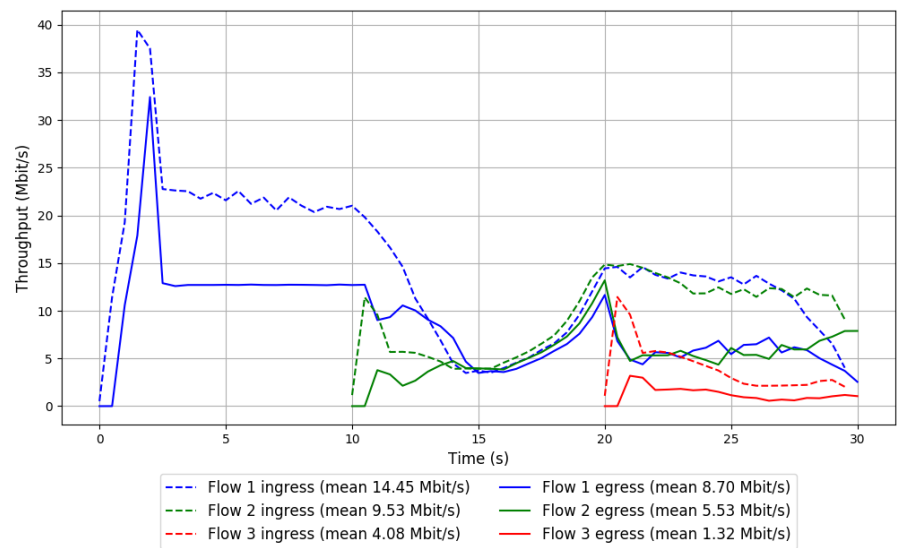


Run 5: Statistics of PCC-Expr

Start at: 2019-01-21 13:47:37
End at: 2019-01-21 13:48:07
Local clock offset: -1.596 ms
Remote clock offset: -38.825 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.82 Mbit/s
95th percentile per-packet one-way delay: 59.879 ms
Loss rate: 42.08%
-- Flow 1:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 59.904 ms
Loss rate: 39.76%
-- Flow 2:
Average throughput: 5.53 Mbit/s
95th percentile per-packet one-way delay: 59.838 ms
Loss rate: 41.96%
-- Flow 3:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 59.846 ms
Loss rate: 67.63%

Run 5: Report of PCC-Expr — Data Link

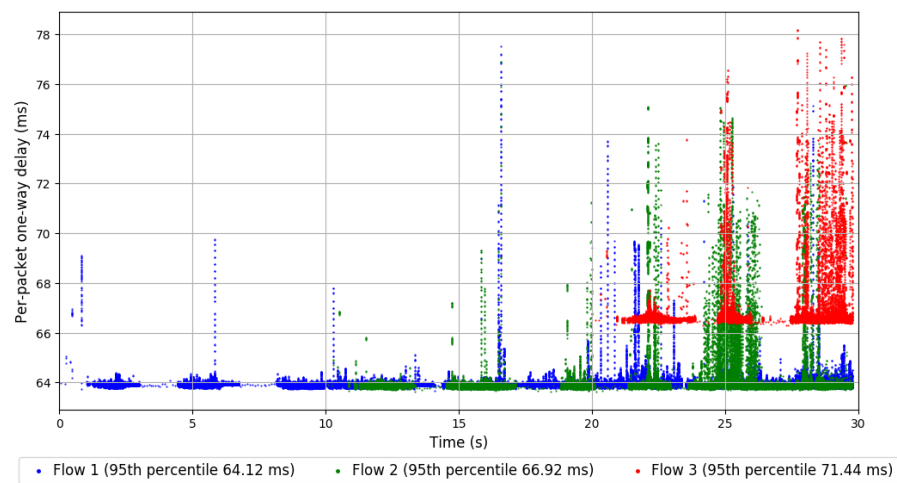
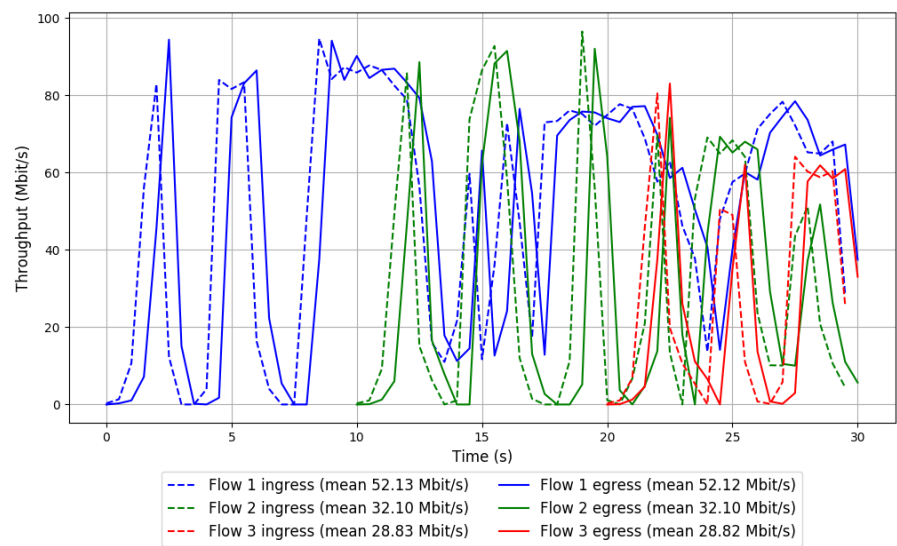


Run 1: Statistics of QUIC Cubic

Start at: 2019-01-21 11:06:31
End at: 2019-01-21 11:07:01
Local clock offset: -1.07 ms
Remote clock offset: -36.376 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 66.725 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 52.12 Mbit/s
95th percentile per-packet one-way delay: 64.119 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 66.915 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.82 Mbit/s
95th percentile per-packet one-way delay: 71.441 ms
Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link

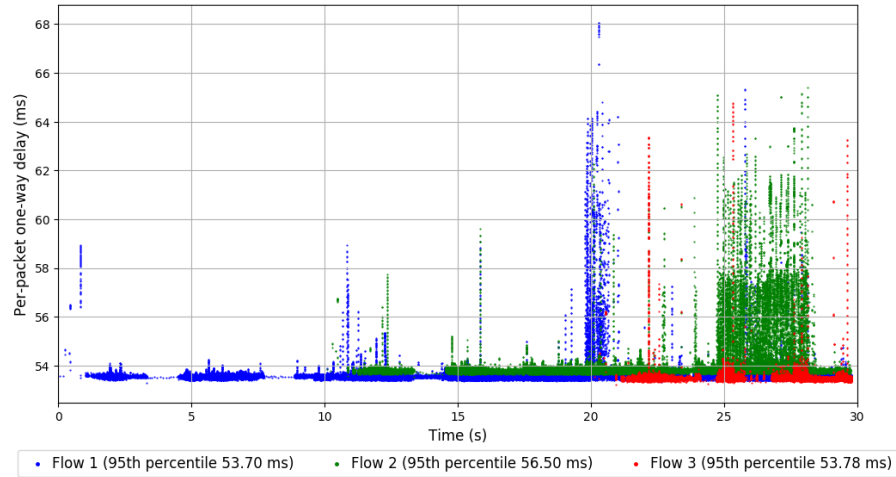
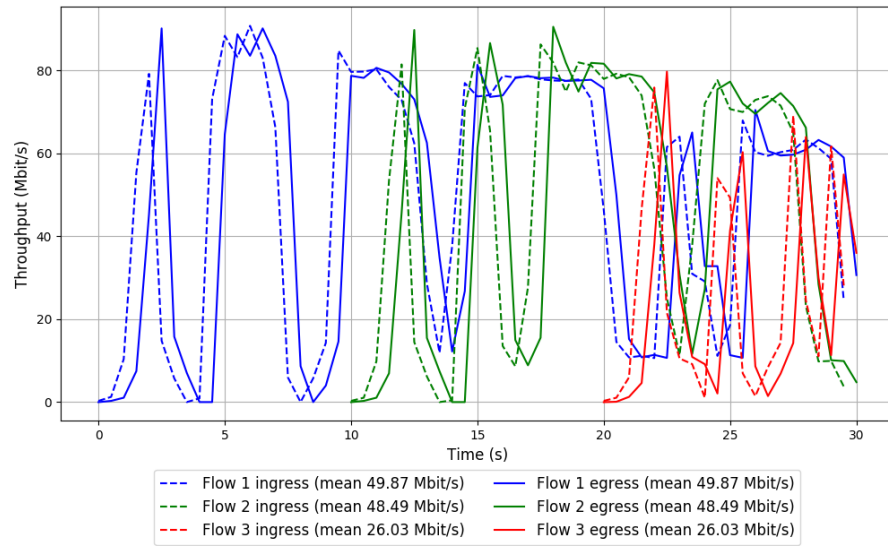


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-21 11:36:55
End at: 2019-01-21 11:37:25
Local clock offset: -0.155 ms
Remote clock offset: -43.453 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 54.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 53.704 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.49 Mbit/s
95th percentile per-packet one-way delay: 56.499 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.03 Mbit/s
95th percentile per-packet one-way delay: 53.778 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

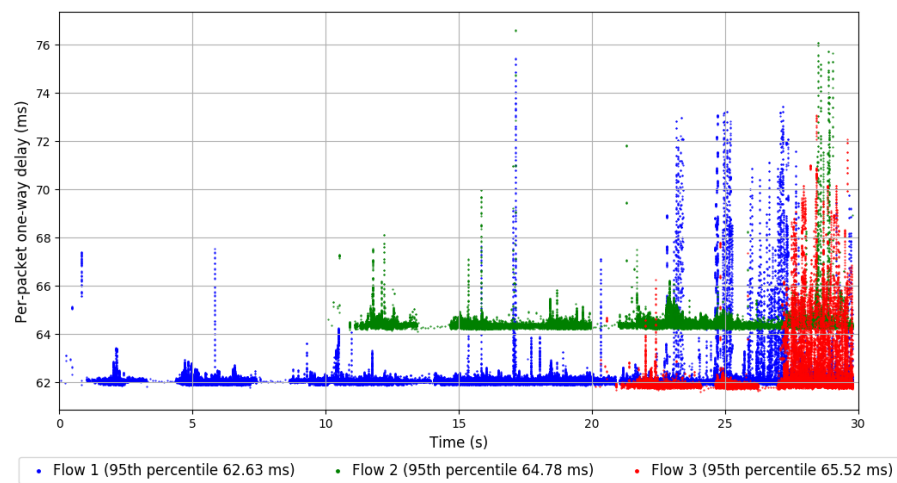
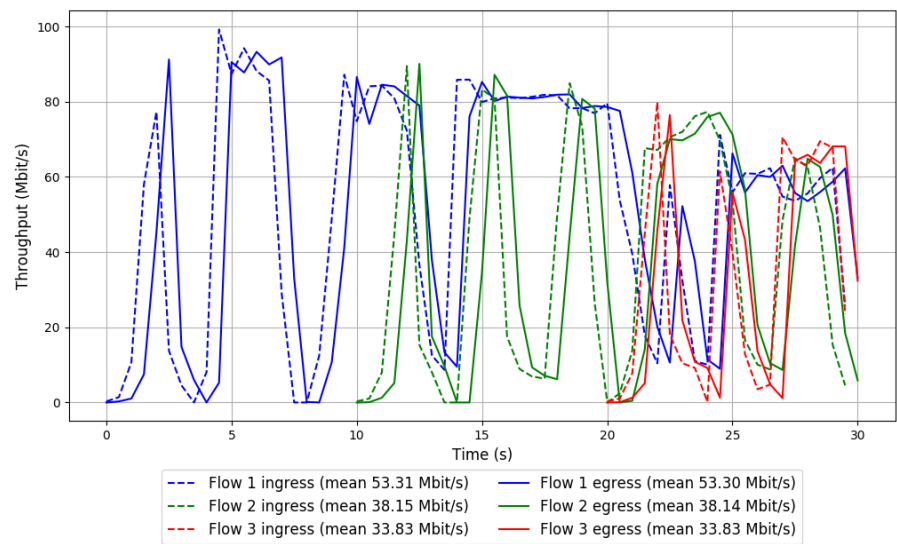


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-21 12:28:27
End at: 2019-01-21 12:28:57
Local clock offset: -1.064 ms
Remote clock offset: -37.883 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.55 Mbit/s
95th percentile per-packet one-way delay: 64.627 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 62.634 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 64.777 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 65.521 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

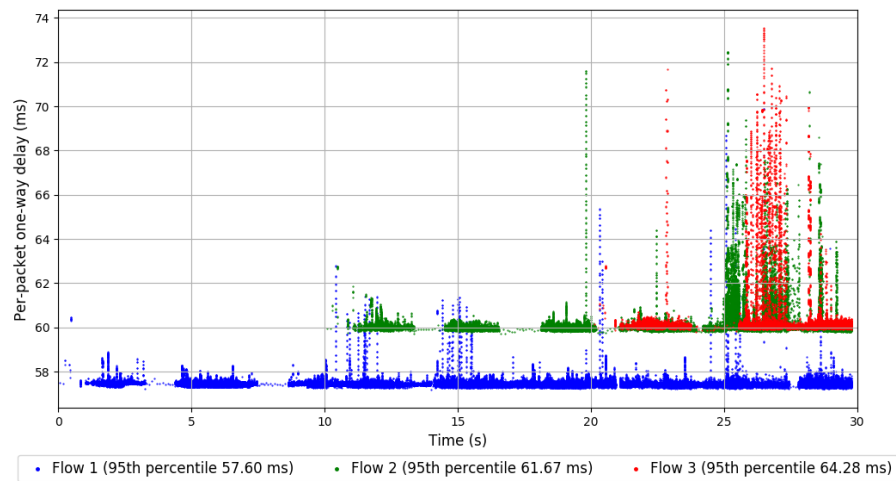
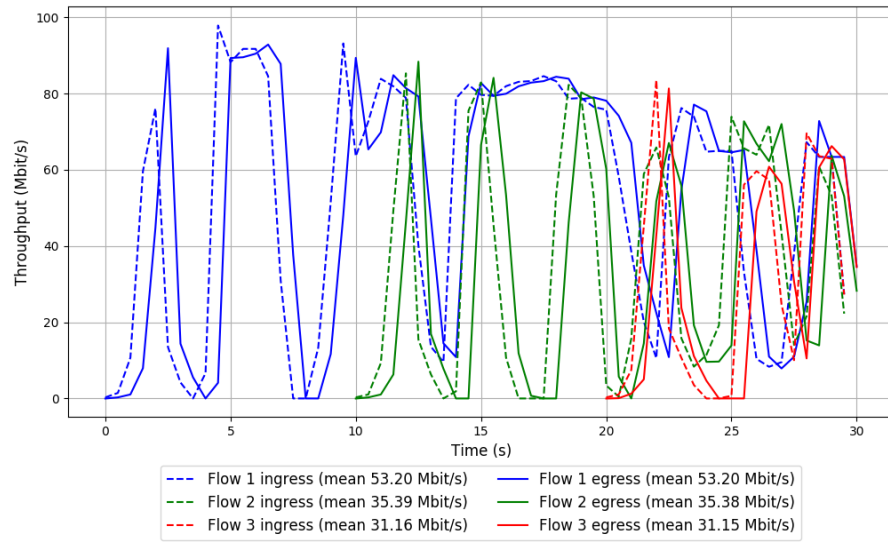


Run 4: Statistics of QUIC Cubic

Start at: 2019-01-21 13:21:21
End at: 2019-01-21 13:21:51
Local clock offset: 0.552 ms
Remote clock offset: -40.313 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.77 Mbit/s
95th percentile per-packet one-way delay: 60.355 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.20 Mbit/s
95th percentile per-packet one-way delay: 57.598 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.38 Mbit/s
95th percentile per-packet one-way delay: 61.669 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 31.15 Mbit/s
95th percentile per-packet one-way delay: 64.282 ms
Loss rate: 0.06%

Run 4: Report of QUIC Cubic — Data Link

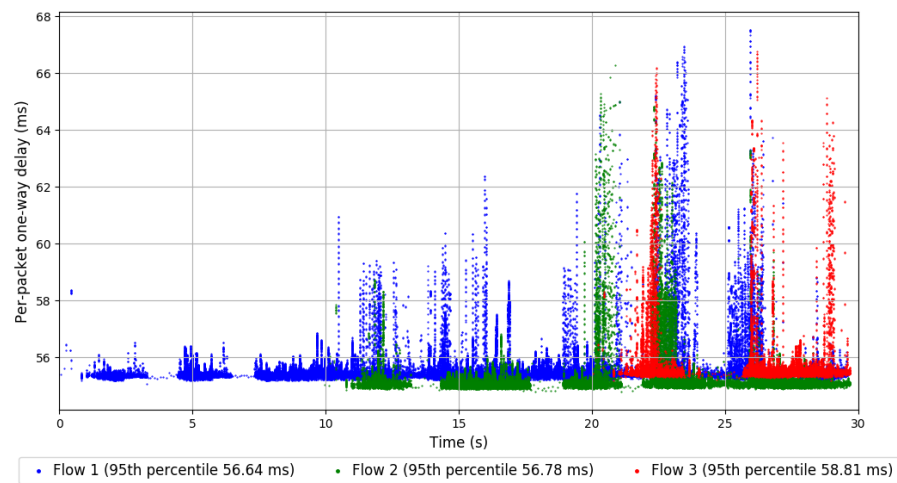
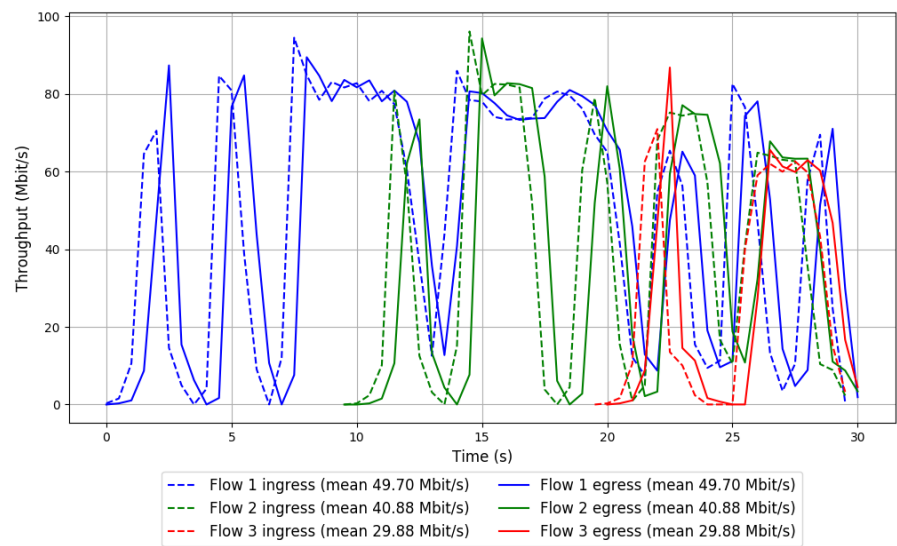


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-21 13:51:50
End at: 2019-01-21 13:52:20
Local clock offset: -3.726 ms
Remote clock offset: -45.415 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.52 Mbit/s
95th percentile per-packet one-way delay: 56.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.70 Mbit/s
95th percentile per-packet one-way delay: 56.639 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.88 Mbit/s
95th percentile per-packet one-way delay: 56.778 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 29.88 Mbit/s
95th percentile per-packet one-way delay: 58.808 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

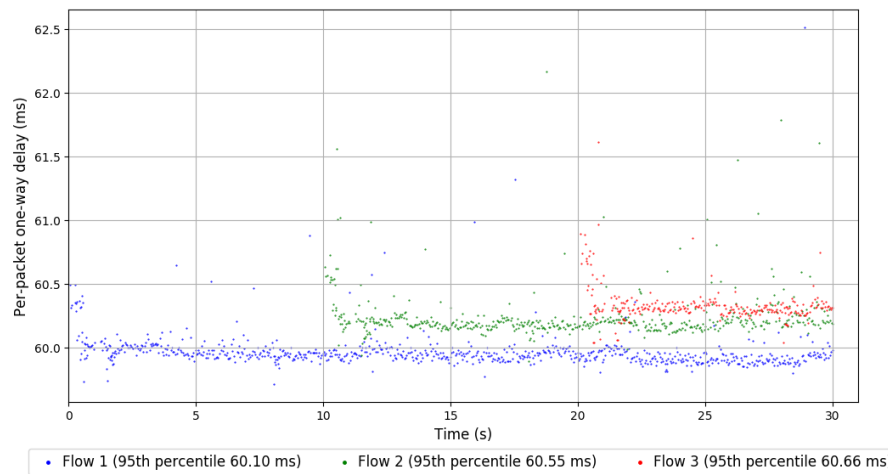
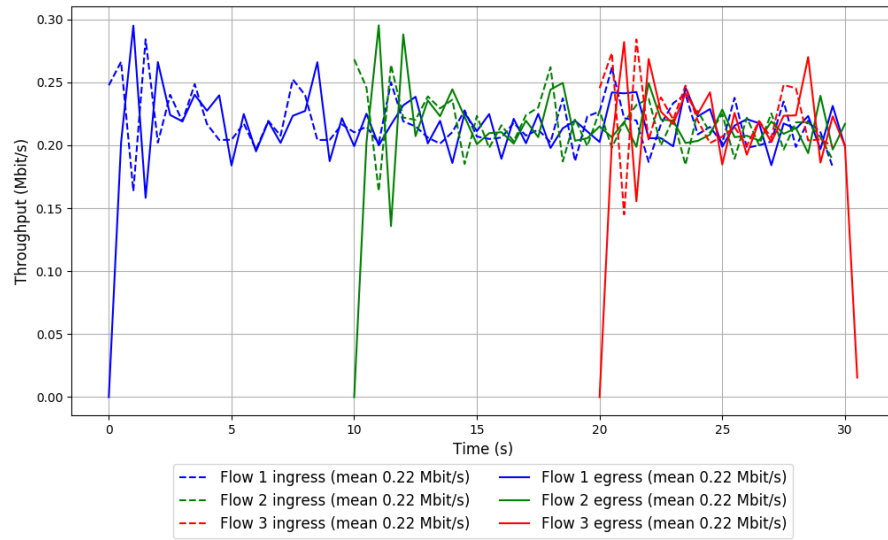


```
Run 1: Statistics of SReAM

Start at: 2019-01-21 11:21:20
End at: 2019-01-21 11:21:50
Local clock offset: -0.275 ms
Remote clock offset: -38.534 ms

# Below is generated by plot.py at 2019-01-21 14:45:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 60.435 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.099 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.553 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.658 ms
Loss rate: 0.00%
```

Run 1: Report of SCRaM — Data Link

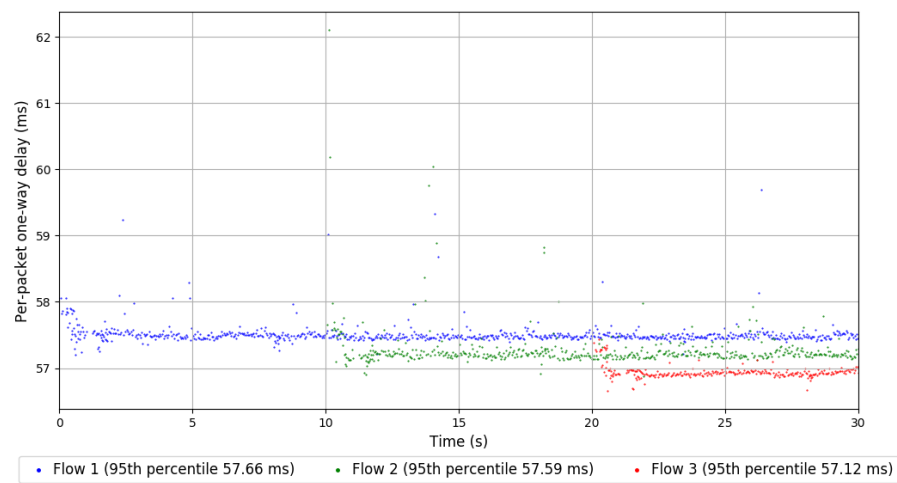
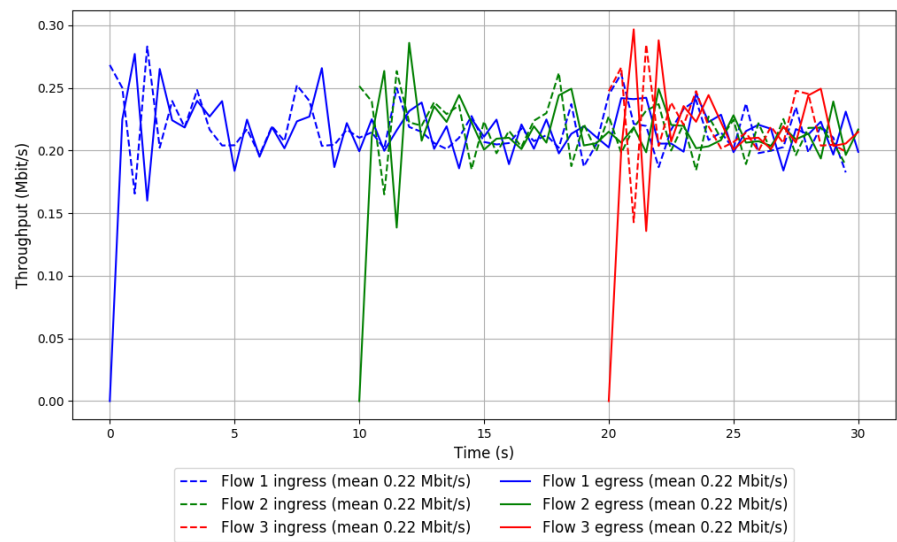


Run 2: Statistics of SReAM

Start at: 2019-01-21 11:57:13
End at: 2019-01-21 11:57:43
Local clock offset: -3.129 ms
Remote clock offset: -44.089 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 57.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.586 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 57.119 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

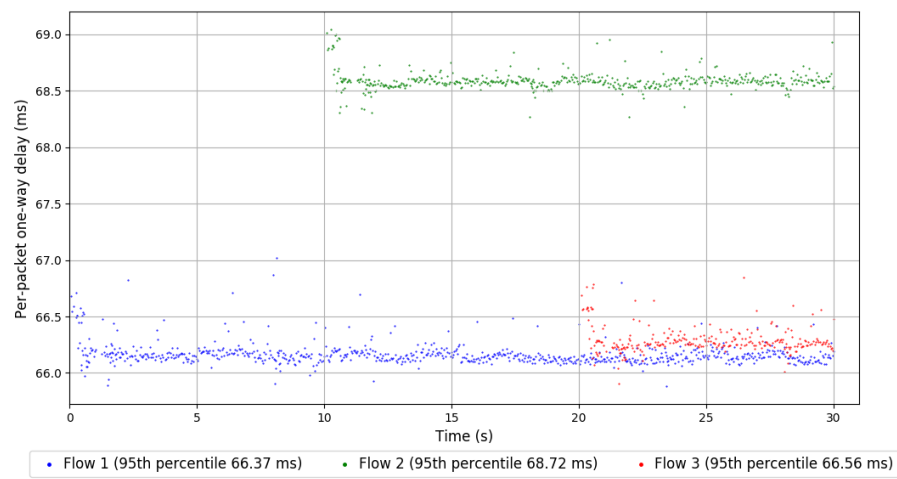
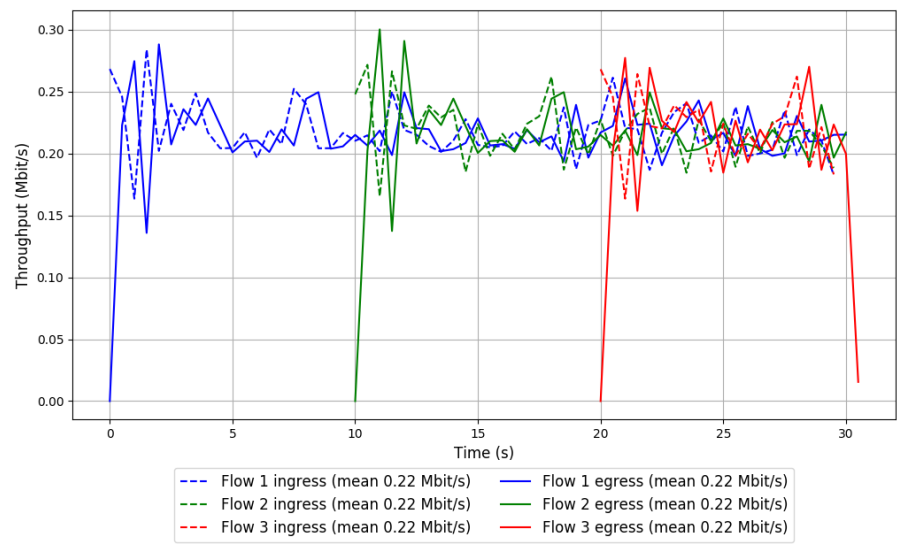


Run 3: Statistics of SReAM

Start at: 2019-01-21 12:43:16
End at: 2019-01-21 12:43:46
Local clock offset: 1.438 ms
Remote clock offset: -31.354 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 68.624 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.718 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.564 ms
Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link

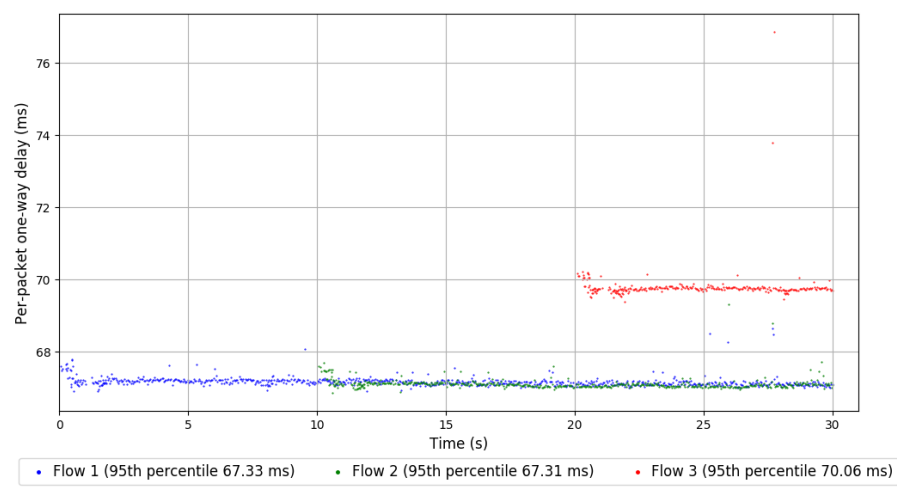
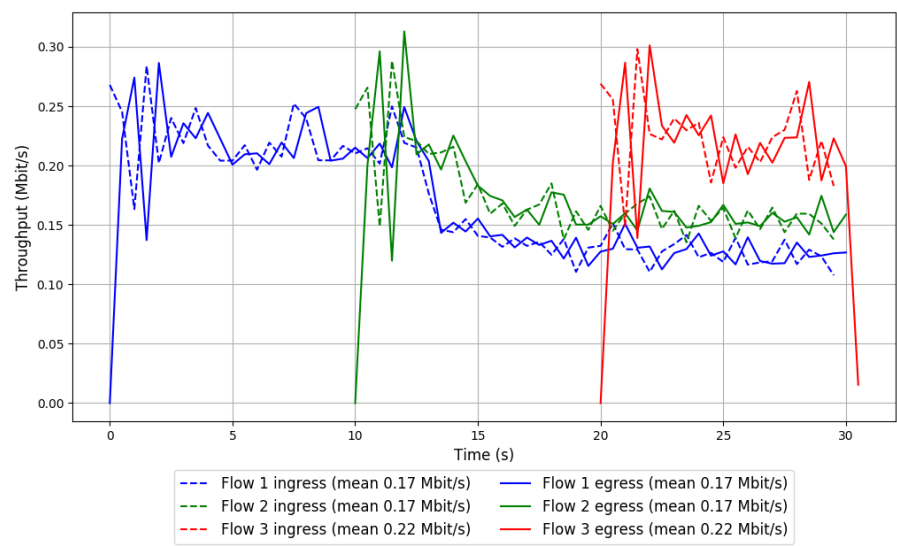


Run 4: Statistics of SReAM

Start at: 2019-01-21 13:36:13
End at: 2019-01-21 13:36:43
Local clock offset: -3.215 ms
Remote clock offset: -32.987 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 69.780 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 67.329 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 67.310 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.059 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

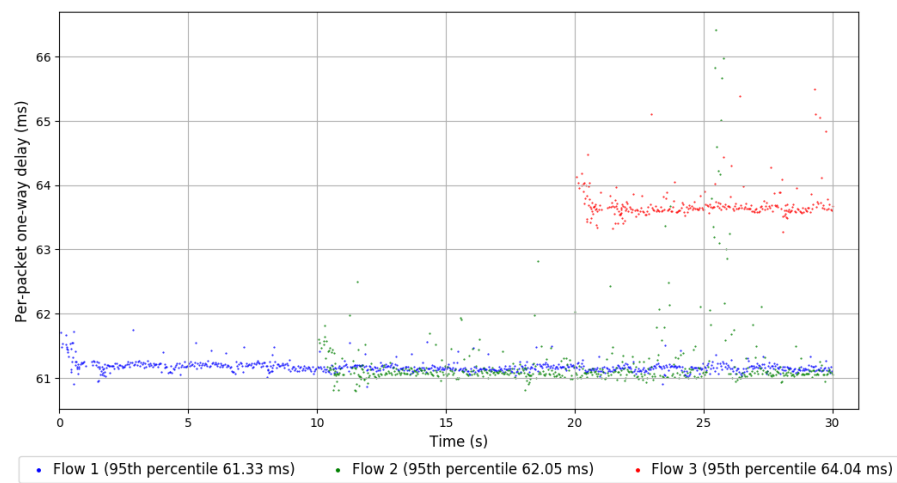
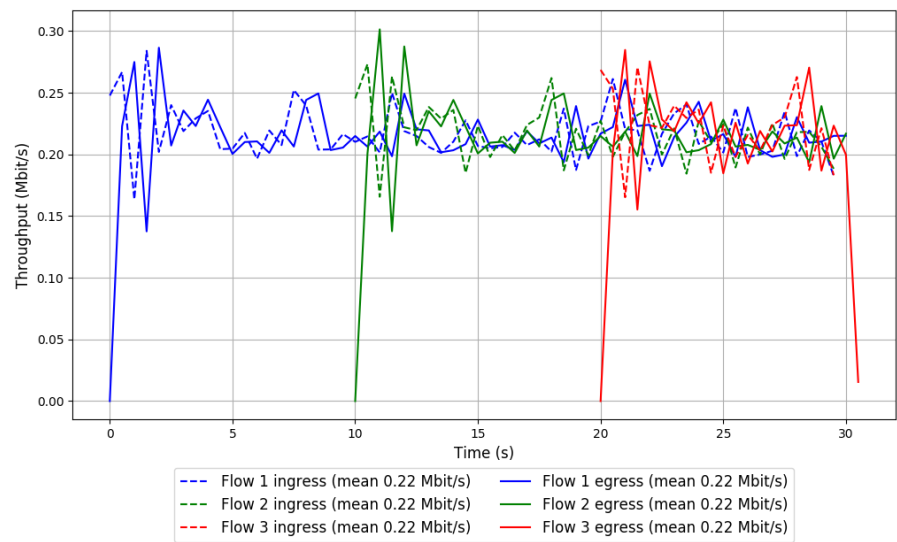


Run 5: Statistics of SReAM

Start at: 2019-01-21 14:12:17
End at: 2019-01-21 14:12:47
Local clock offset: -1.315 ms
Remote clock offset: -37.658 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.051 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.041 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

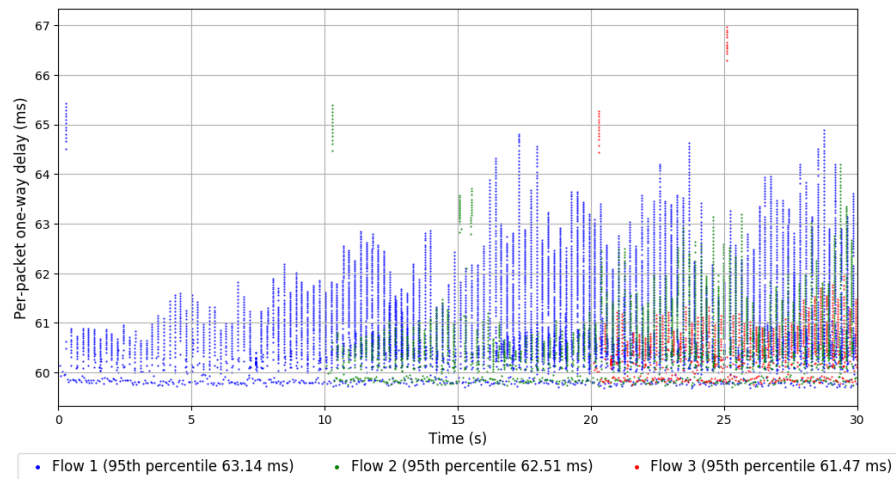
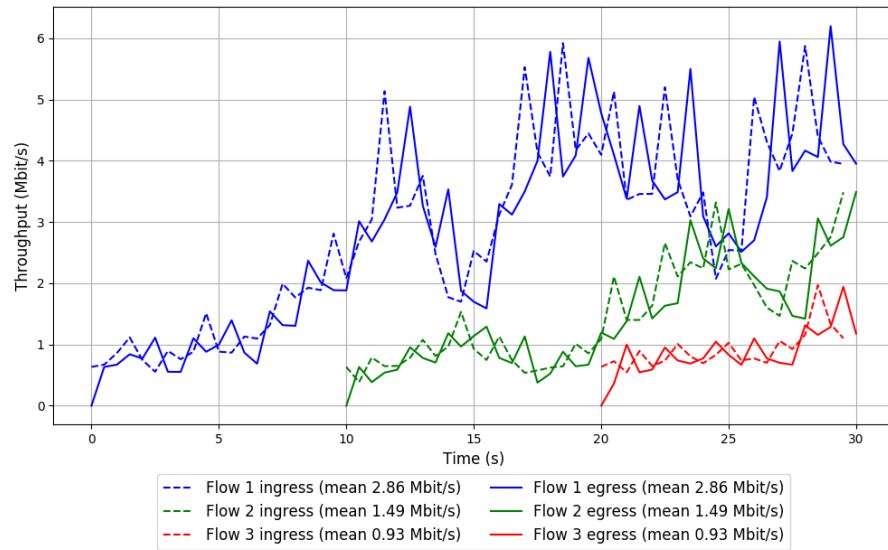


Run 1: Statistics of Sprout

Start at: 2019-01-21 11:13:52
End at: 2019-01-21 11:14:22
Local clock offset: -0.474 ms
Remote clock offset: -39.662 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 63.020 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 63.144 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 62.510 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 61.471 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

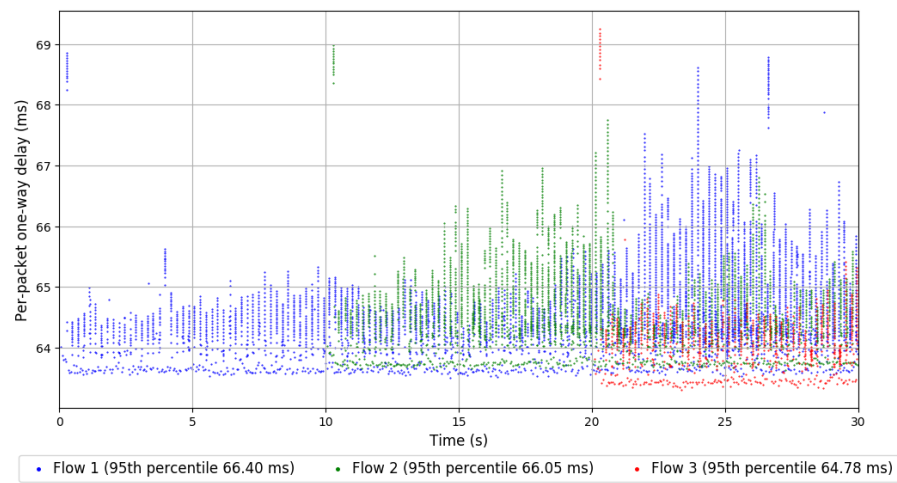
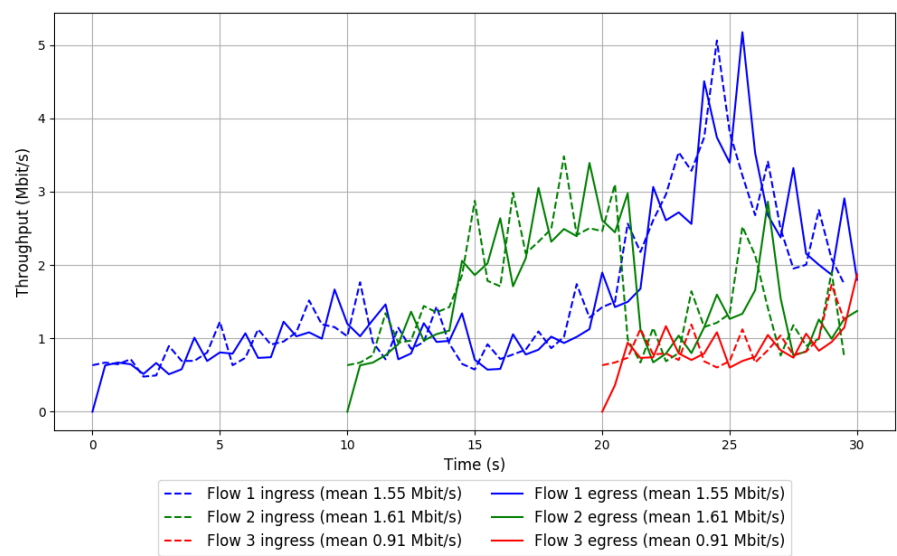


Run 2: Statistics of Sprout

Start at: 2019-01-21 11:49:45
End at: 2019-01-21 11:50:15
Local clock offset: -4.368 ms
Remote clock offset: -38.339 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 66.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 66.397 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 66.054 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 64.784 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

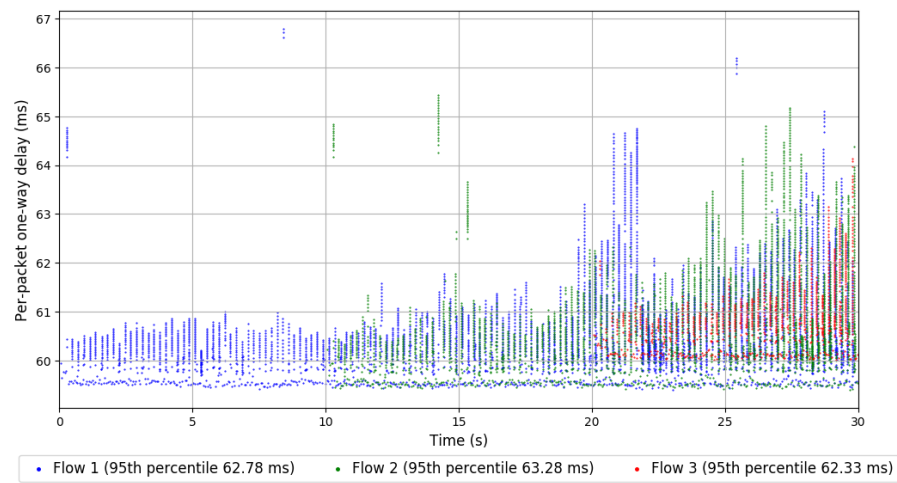
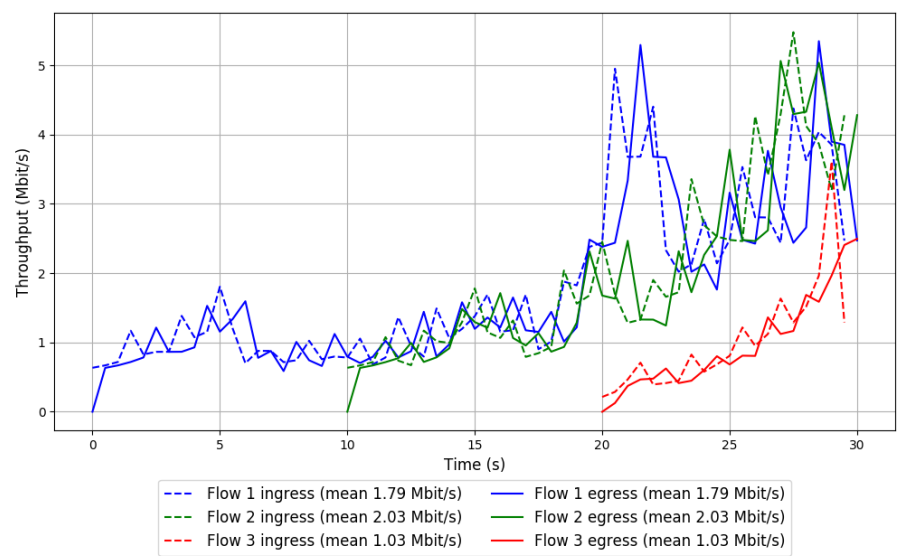


Run 3: Statistics of Sprout

Start at: 2019-01-21 12:35:47
End at: 2019-01-21 12:36:17
Local clock offset: 1.564 ms
Remote clock offset: -37.317 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 62.982 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 62.785 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 63.280 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 62.332 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

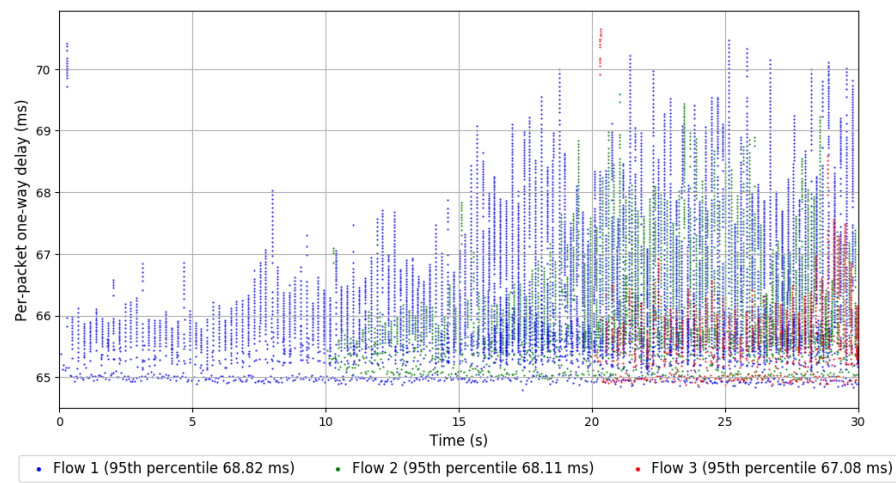
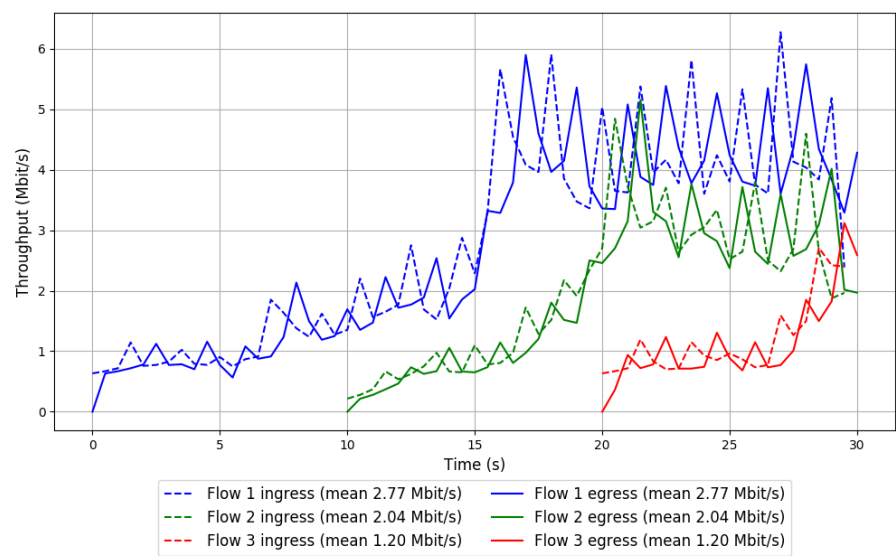


Run 4: Statistics of Sprout

Start at: 2019-01-21 13:28:42
End at: 2019-01-21 13:29:12
Local clock offset: -1.805 ms
Remote clock offset: -33.963 ms

```
# Below is generated by plot.py at 2019-01-21 14:45:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 68.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 68.820 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 68.105 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 67.075 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

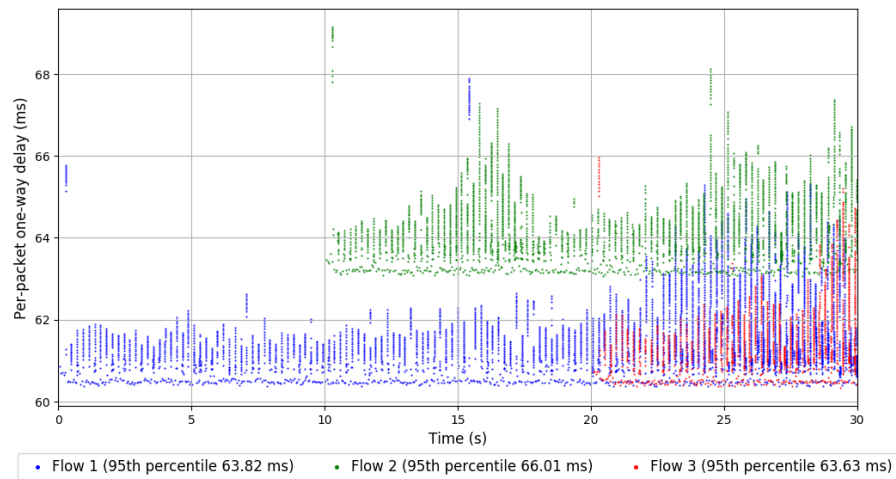
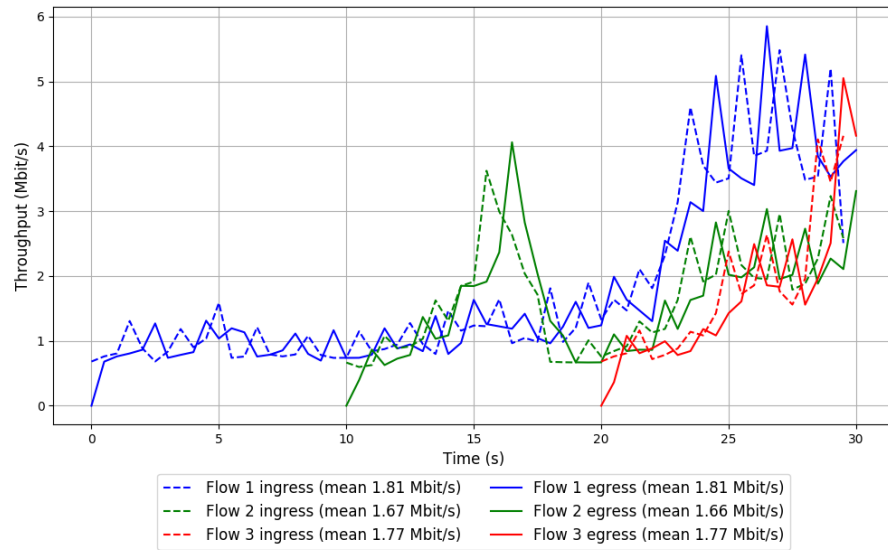


Run 5: Statistics of Sprout

Start at: 2019-01-21 14:04:47
End at: 2019-01-21 14:05:17
Local clock offset: -0.922 ms
Remote clock offset: -37.664 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 65.281 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 63.817 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 66.014 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 63.630 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

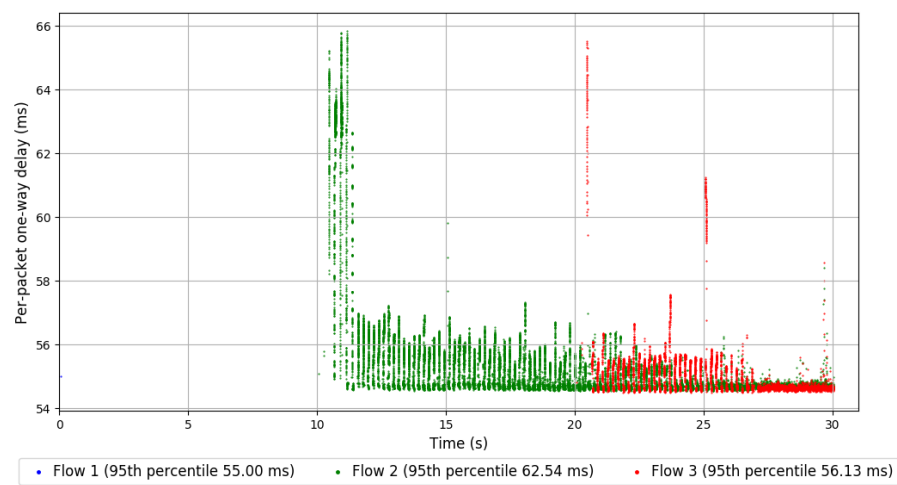
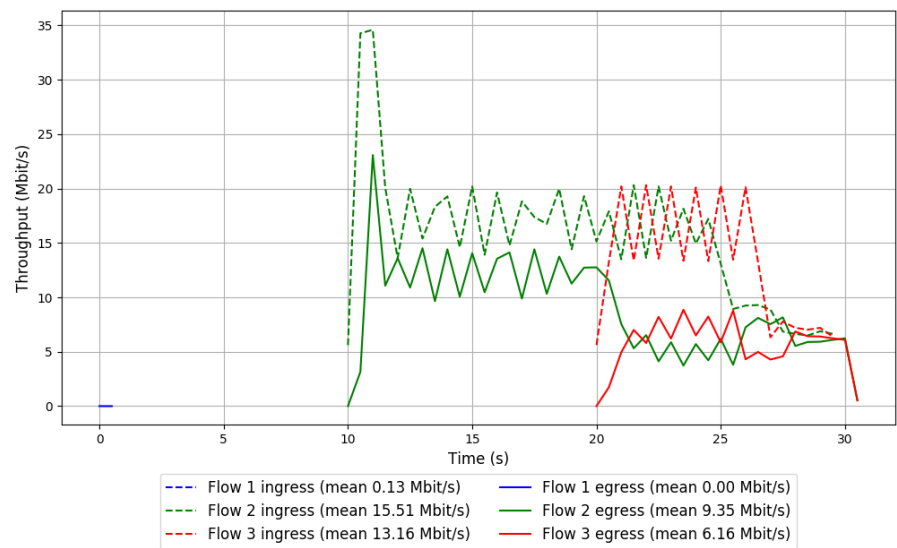


Run 1: Statistics of TaoVA-100x

Start at: 2019-01-21 11:24:11
End at: 2019-01-21 11:24:41
Local clock offset: 1.448 ms
Remote clock offset: -41.721 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 60.931 ms
Loss rate: 43.74%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 54.999 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 62.538 ms
Loss rate: 39.75%
-- Flow 3:
Average throughput: 6.16 Mbit/s
95th percentile per-packet one-way delay: 56.126 ms
Loss rate: 53.17%

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

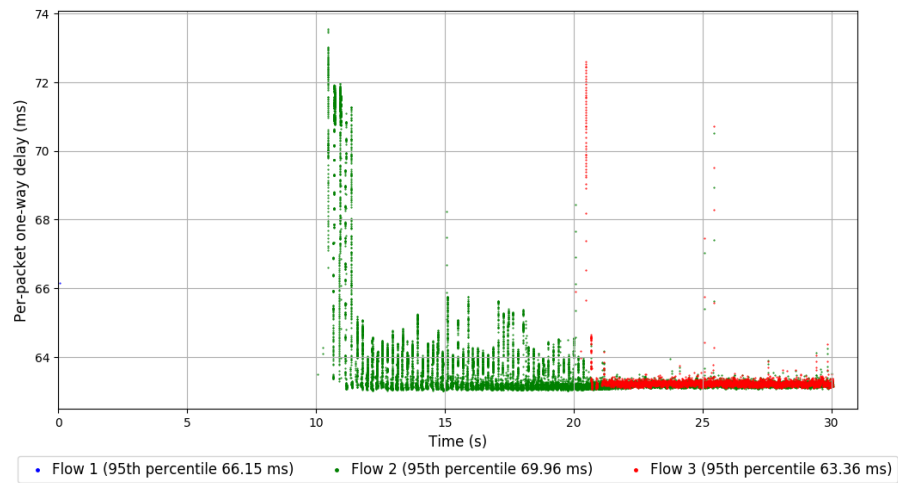
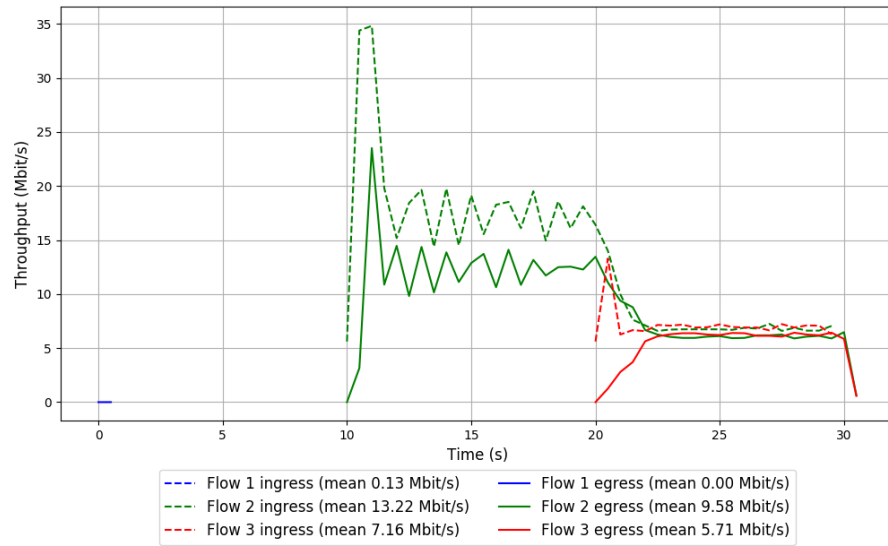


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-21 12:00:05
End at: 2019-01-21 12:00:35
Local clock offset: -2.475 ms
Remote clock offset: -37.51 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 68.370 ms
Loss rate: 25.96%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 66.146 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 69.961 ms
Loss rate: 27.48%
-- Flow 3:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 63.363 ms
Loss rate: 20.31%

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

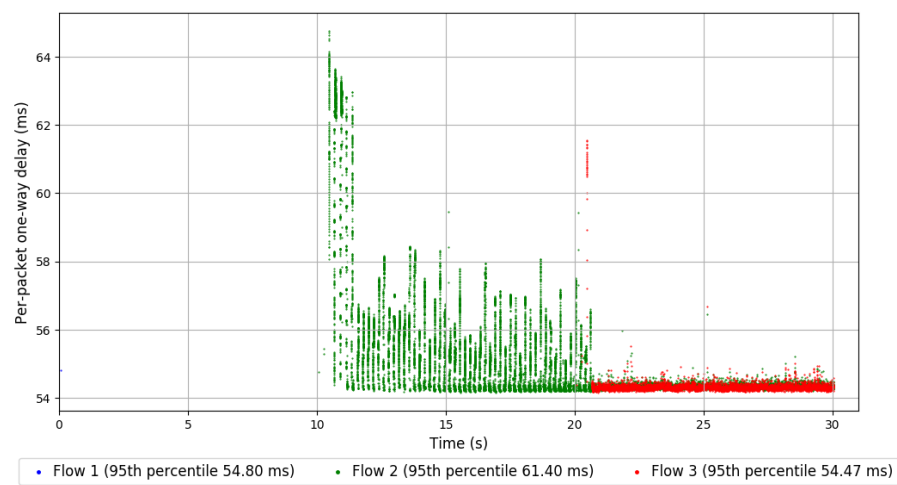
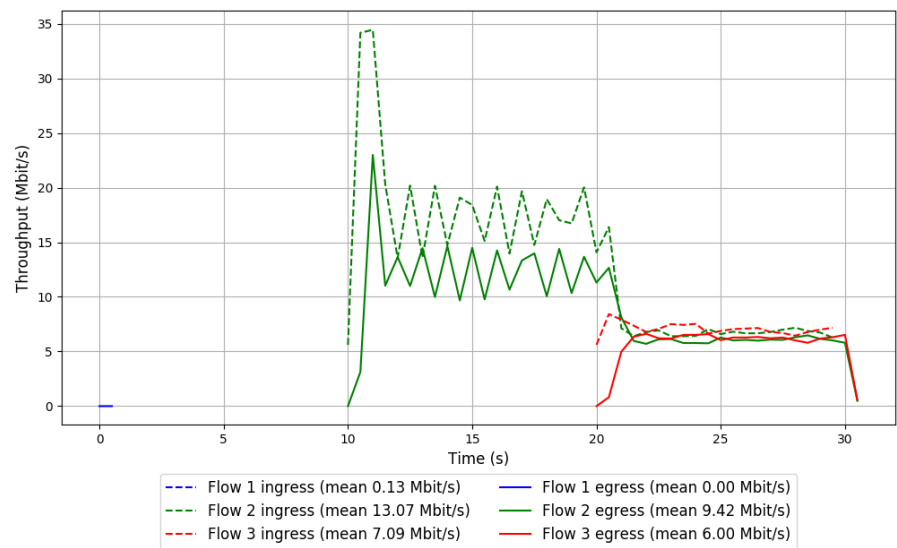


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-21 12:51:46
End at: 2019-01-21 12:52:16
Local clock offset: 1.561 ms
Remote clock offset: -43.091 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 59.304 ms
Loss rate: 25.22%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 54.802 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 61.403 ms
Loss rate: 27.88%
-- Flow 3:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 54.470 ms
Loss rate: 15.37%

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

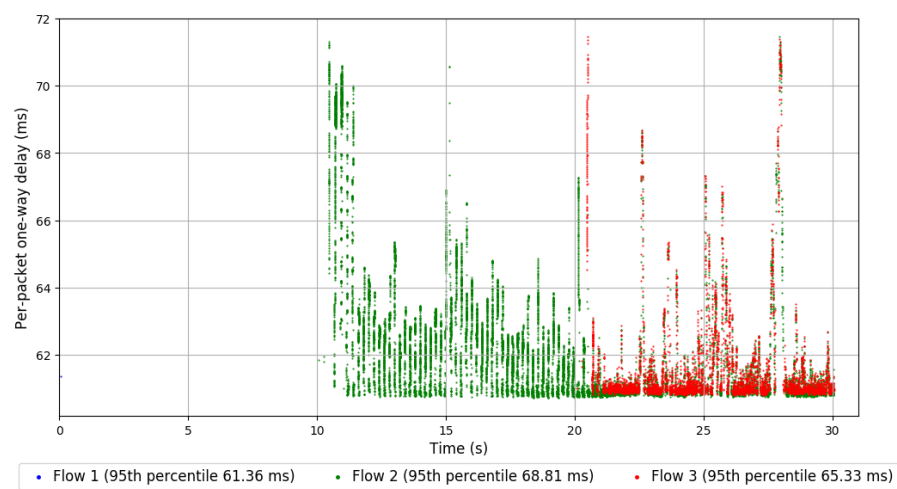
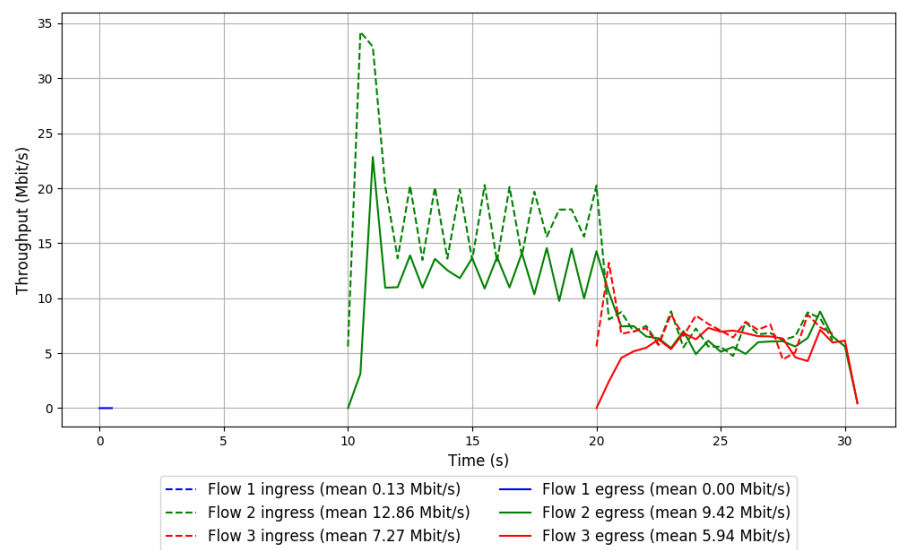


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-21 13:39:05
End at: 2019-01-21 13:39:35
Local clock offset: -2.391 ms
Remote clock offset: -38.236 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 67.841 ms
Loss rate: 24.88%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 61.361 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.42 Mbit/s
95th percentile per-packet one-way delay: 68.811 ms
Loss rate: 26.74%
-- Flow 3:
Average throughput: 5.94 Mbit/s
95th percentile per-packet one-way delay: 65.331 ms
Loss rate: 18.27%

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

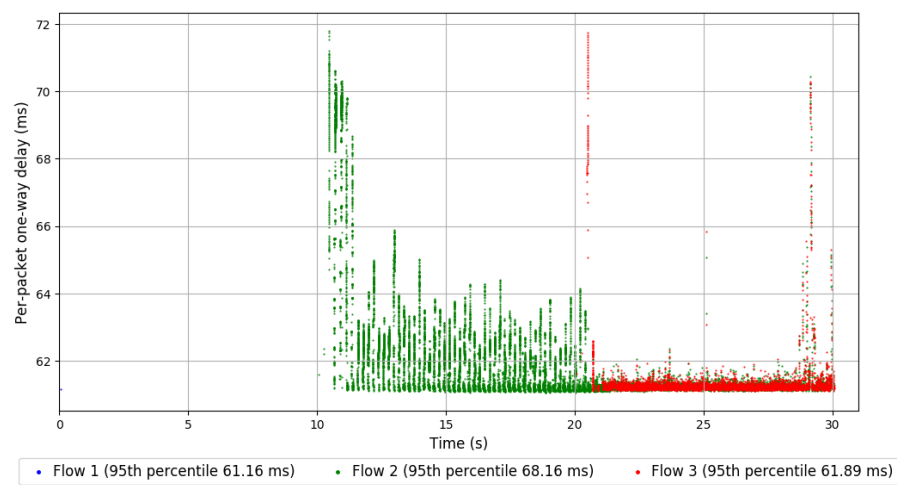
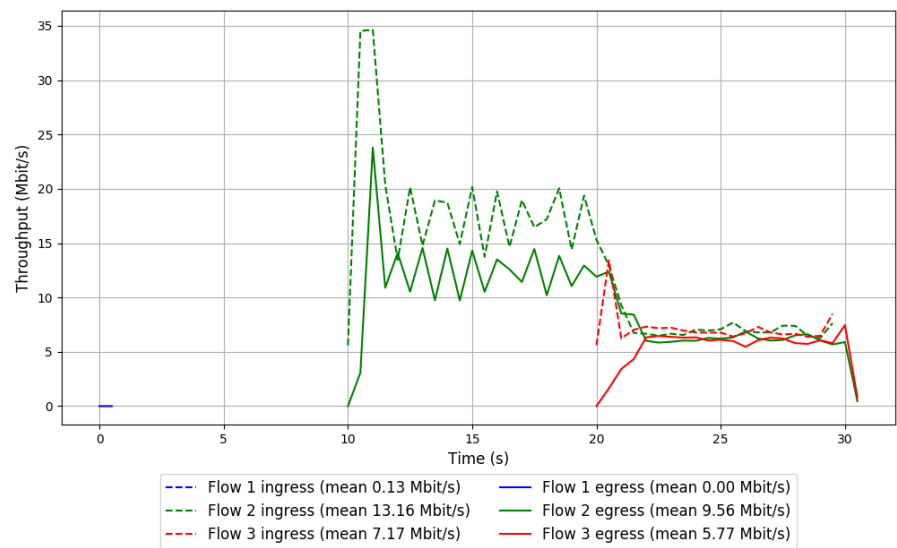


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-21 14:15:09
End at: 2019-01-21 14:15:39
Local clock offset: -4.472 ms
Remote clock offset: -40.53 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.29 Mbit/s
95th percentile per-packet one-way delay: 66.680 ms
Loss rate: 25.69%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 61.160 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 68.161 ms
Loss rate: 27.34%
-- Flow 3:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 61.892 ms
Loss rate: 19.58%

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

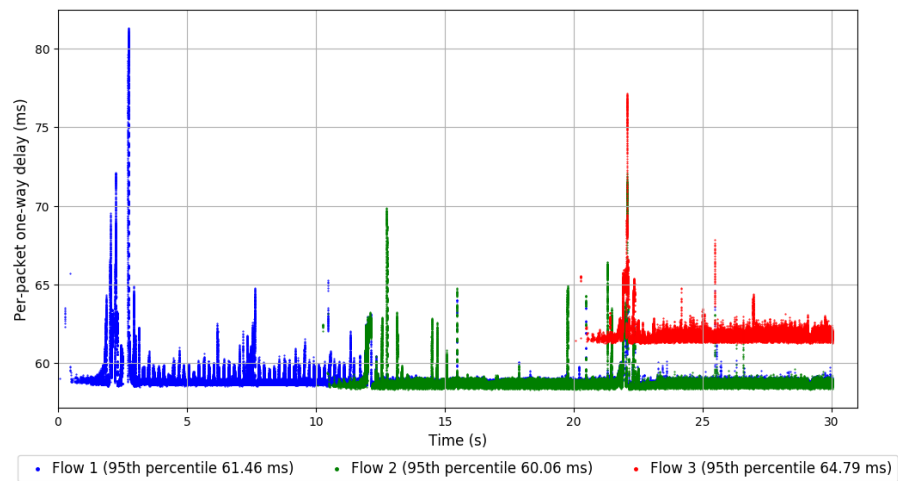
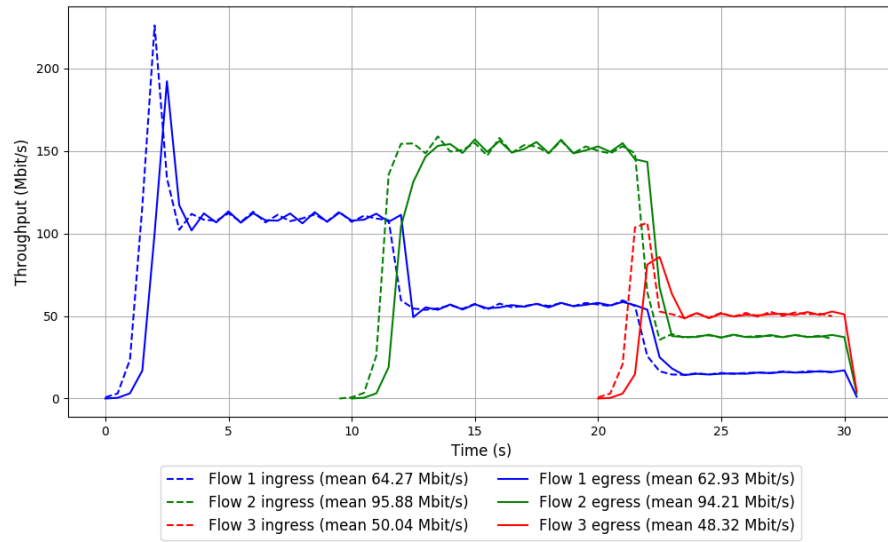


Run 1: Statistics of TCP Vegas

Start at: 2019-01-21 10:59:35
End at: 2019-01-21 11:00:05
Local clock offset: -0.428 ms
Remote clock offset: -41.469 ms

Below is generated by plot.py at 2019-01-21 14:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 141.77 Mbit/s
95th percentile per-packet one-way delay: 62.094 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 62.93 Mbit/s
95th percentile per-packet one-way delay: 61.463 ms
Loss rate: 2.09%
-- Flow 2:
Average throughput: 94.21 Mbit/s
95th percentile per-packet one-way delay: 60.056 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 48.32 Mbit/s
95th percentile per-packet one-way delay: 64.787 ms
Loss rate: 3.44%

Run 1: Report of TCP Vegas — Data Link

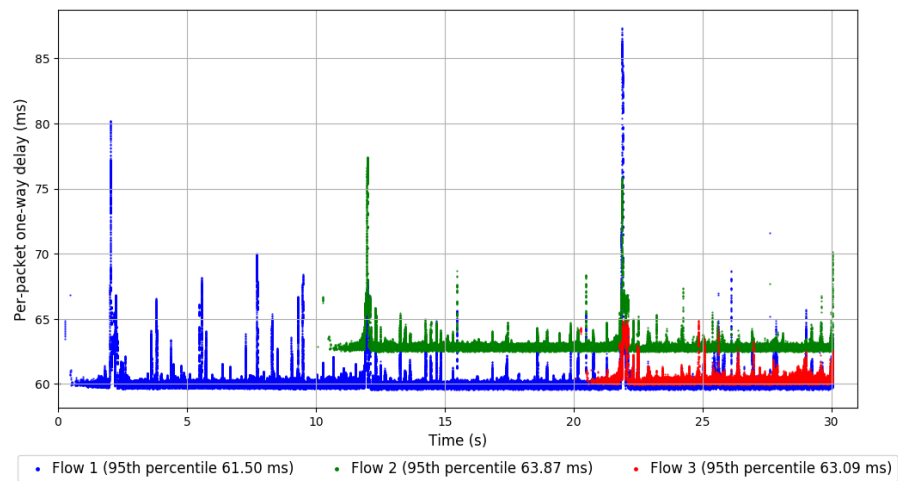
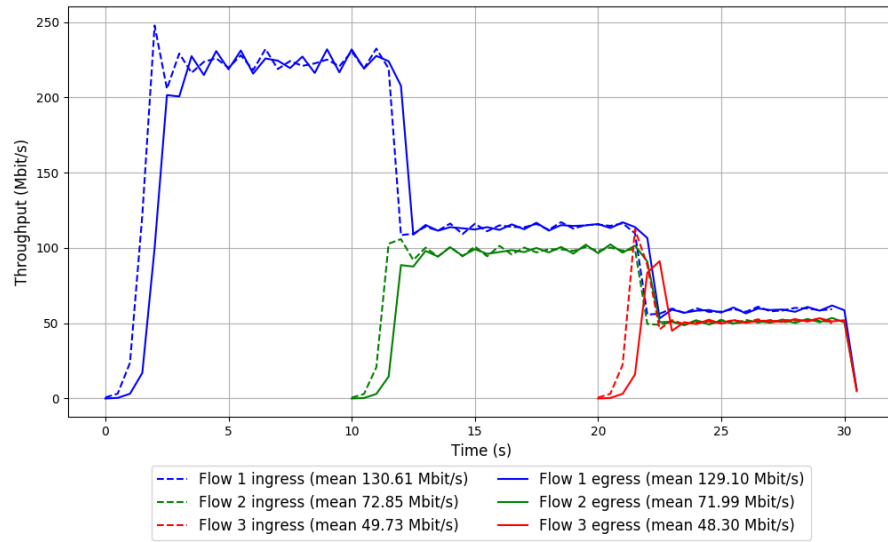


Run 2: Statistics of TCP Vegas

Start at: 2019-01-21 11:29:56
End at: 2019-01-21 11:30:26
Local clock offset: -1.226 ms
Remote clock offset: -38.553 ms

Below is generated by plot.py at 2019-01-21 14:45:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 193.10 Mbit/s
95th percentile per-packet one-way delay: 63.099 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 129.10 Mbit/s
95th percentile per-packet one-way delay: 61.503 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 71.99 Mbit/s
95th percentile per-packet one-way delay: 63.865 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 48.30 Mbit/s
95th percentile per-packet one-way delay: 63.086 ms
Loss rate: 2.86%

Run 2: Report of TCP Vegas — Data Link

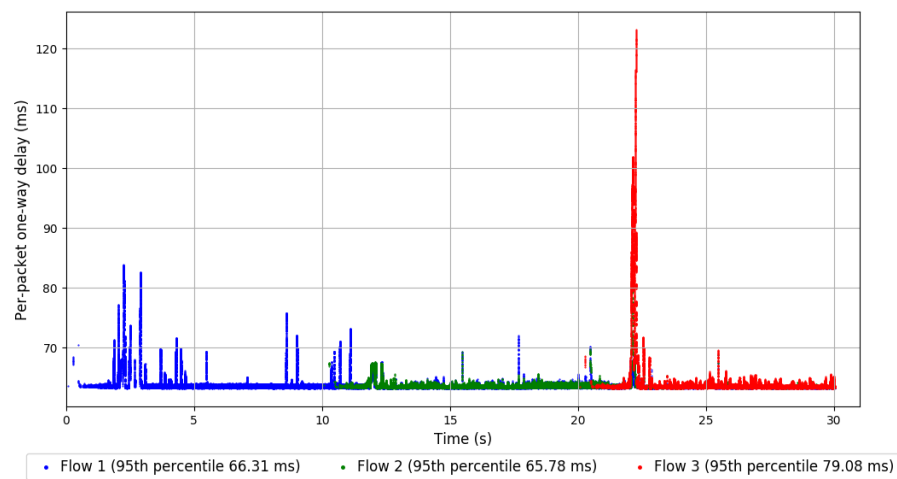
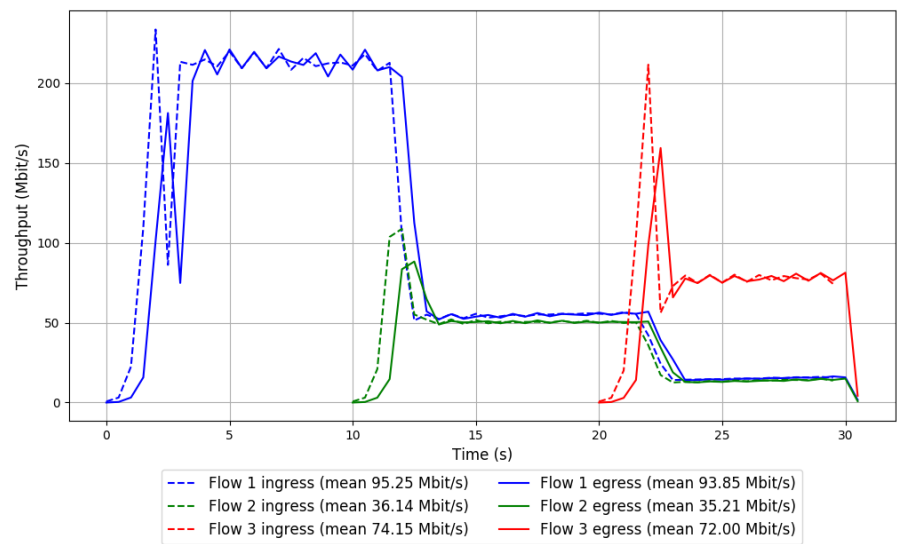


Run 3: Statistics of TCP Vegas

Start at: 2019-01-21 12:21:31
End at: 2019-01-21 12:22:01
Local clock offset: -0.081 ms
Remote clock offset: -38.003 ms

Below is generated by plot.py at 2019-01-21 14:45:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 141.23 Mbit/s
95th percentile per-packet one-way delay: 66.536 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 93.85 Mbit/s
95th percentile per-packet one-way delay: 66.311 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 65.775 ms
Loss rate: 2.61%
-- Flow 3:
Average throughput: 72.00 Mbit/s
95th percentile per-packet one-way delay: 79.081 ms
Loss rate: 2.91%

Run 3: Report of TCP Vegas — Data Link

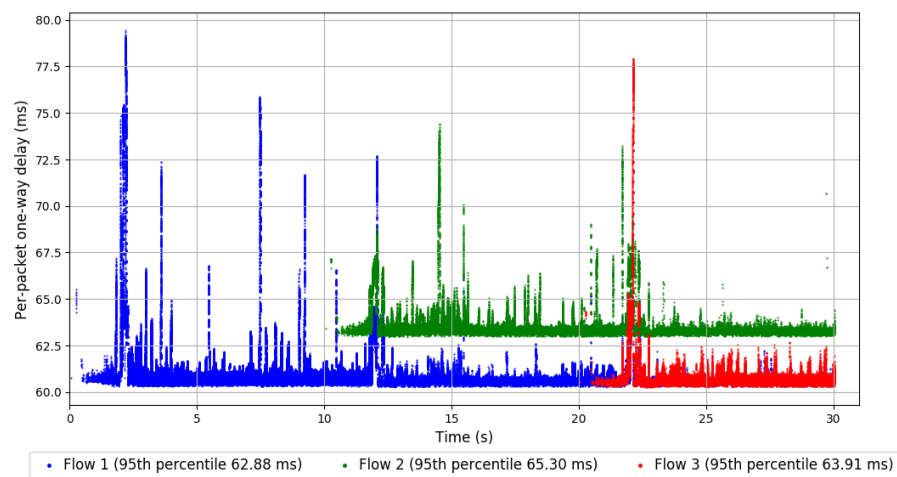
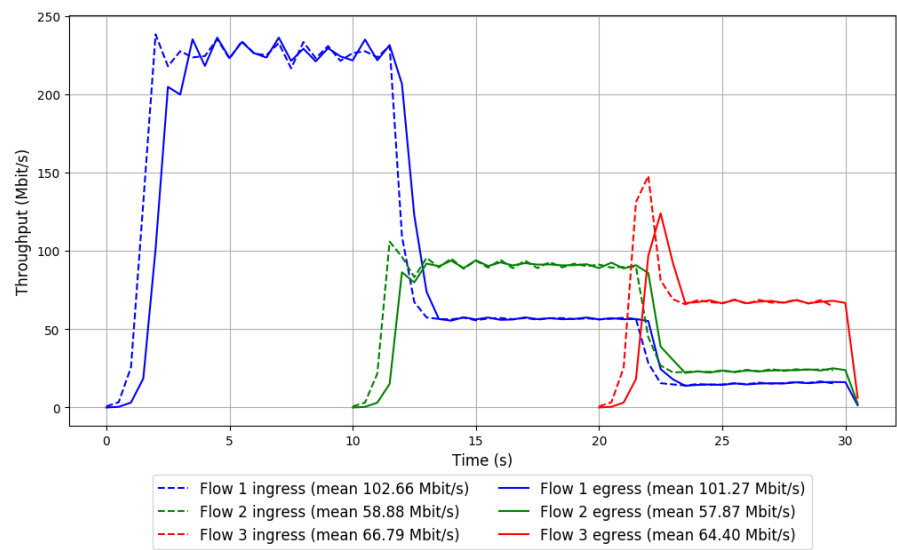


Run 4: Statistics of TCP Vegas

Start at: 2019-01-21 13:03:08
End at: 2019-01-21 13:03:38
Local clock offset: -2.33 ms
Remote clock offset: -41.122 ms

Below is generated by plot.py at 2019-01-21 14:45:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 161.26 Mbit/s
95th percentile per-packet one-way delay: 63.951 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 101.27 Mbit/s
95th percentile per-packet one-way delay: 62.885 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 57.87 Mbit/s
95th percentile per-packet one-way delay: 65.301 ms
Loss rate: 1.72%
-- Flow 3:
Average throughput: 64.40 Mbit/s
95th percentile per-packet one-way delay: 63.905 ms
Loss rate: 3.57%

Run 4: Report of TCP Vegas — Data Link

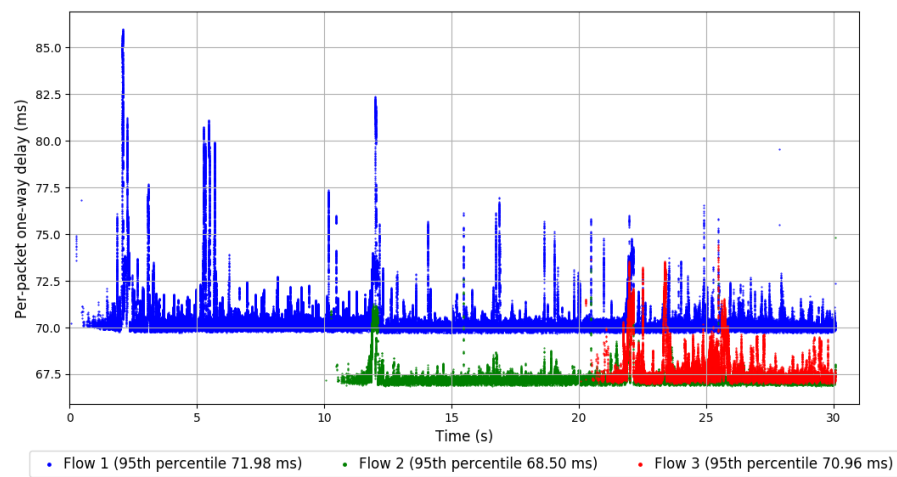
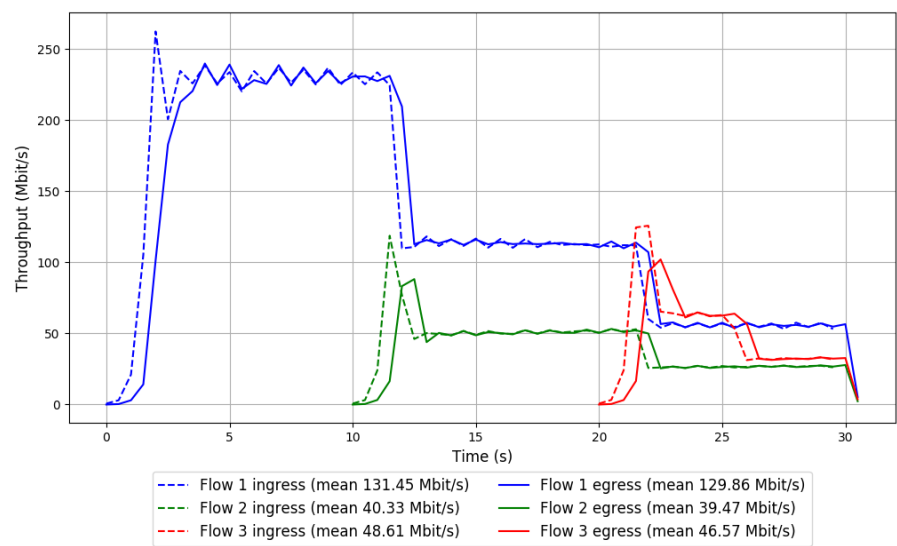


Run 5: Statistics of TCP Vegas

Start at: 2019-01-21 13:44:50
End at: 2019-01-21 13:45:20
Local clock offset: -3.732 ms
Remote clock offset: -32.864 ms

Below is generated by plot.py at 2019-01-21 14:45:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.64 Mbit/s
95th percentile per-packet one-way delay: 71.502 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 129.86 Mbit/s
95th percentile per-packet one-way delay: 71.982 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: 68.498 ms
Loss rate: 2.09%
-- Flow 3:
Average throughput: 46.57 Mbit/s
95th percentile per-packet one-way delay: 70.957 ms
Loss rate: 4.20%

Run 5: Report of TCP Vegas — Data Link

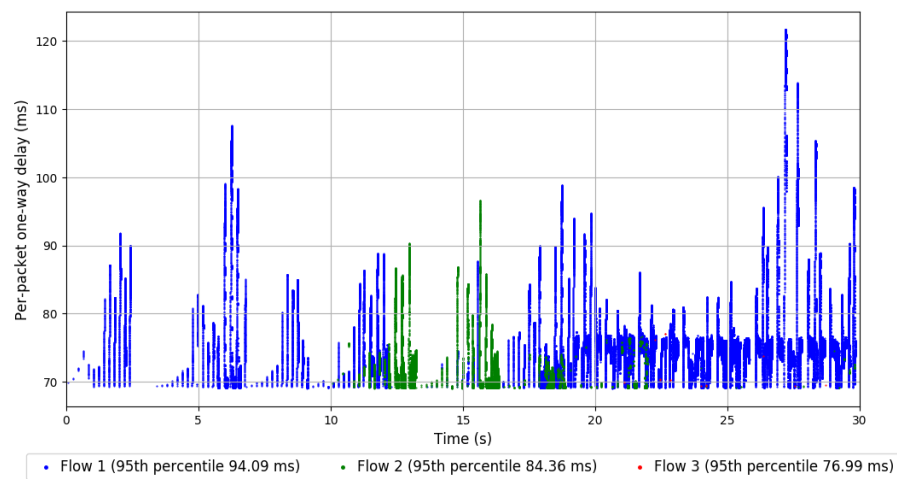
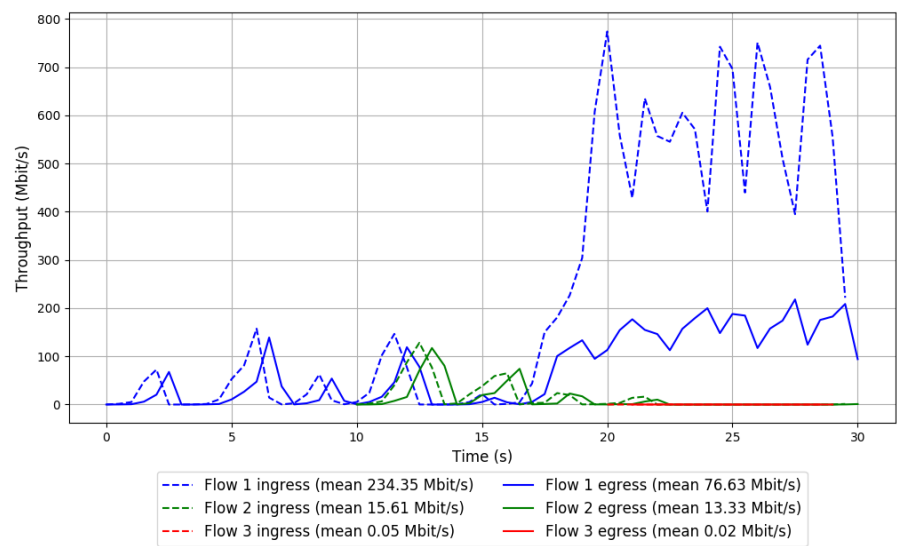


Run 1: Statistics of Verus

Start at: 2019-01-21 10:56:34
End at: 2019-01-21 10:57:04
Local clock offset: -2.085 ms
Remote clock offset: -32.636 ms

Below is generated by plot.py at 2019-01-21 14:46:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.48 Mbit/s
95th percentile per-packet one-way delay: 93.262 ms
Loss rate: 65.06%
-- Flow 1:
Average throughput: 76.63 Mbit/s
95th percentile per-packet one-way delay: 94.092 ms
Loss rate: 67.29%
-- Flow 2:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 84.357 ms
Loss rate: 14.56%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 76.994 ms
Loss rate: 63.41%

Run 1: Report of Verus — Data Link

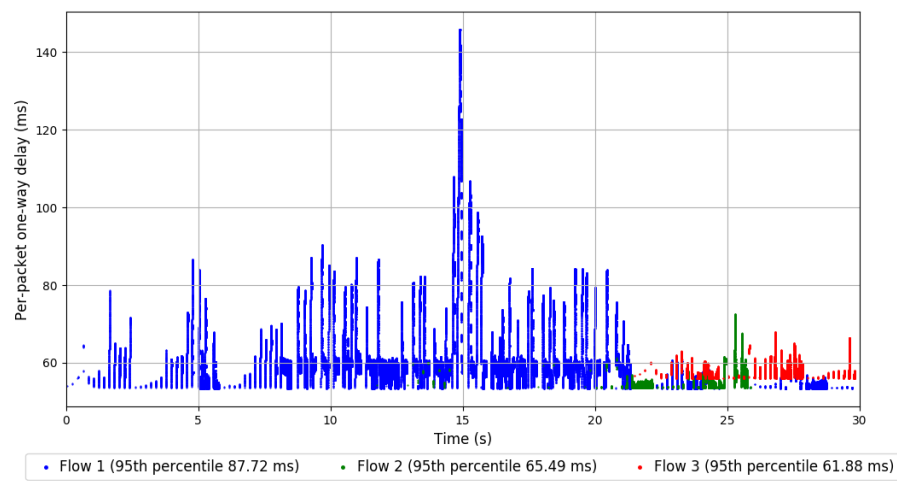
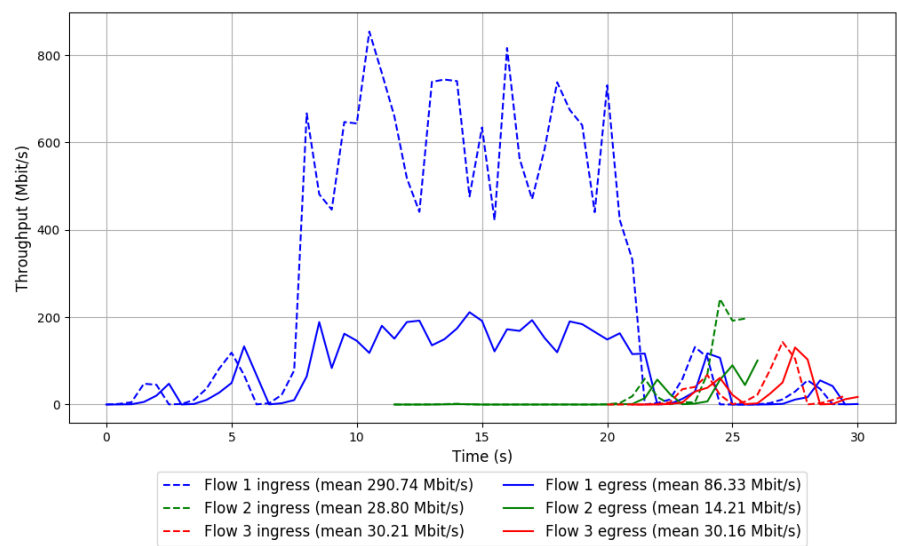


Run 2: Statistics of Verus

Start at: 2019-01-21 11:26:59
End at: 2019-01-21 11:27:29
Local clock offset: -0.851 ms
Remote clock offset: -45.012 ms

Below is generated by plot.py at 2019-01-21 14:47:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 101.27 Mbit/s
95th percentile per-packet one-way delay: 85.460 ms
Loss rate: 67.65%
-- Flow 1:
Average throughput: 86.33 Mbit/s
95th percentile per-packet one-way delay: 87.723 ms
Loss rate: 70.31%
-- Flow 2:
Average throughput: 14.21 Mbit/s
95th percentile per-packet one-way delay: 65.488 ms
Loss rate: 50.65%
-- Flow 3:
Average throughput: 30.16 Mbit/s
95th percentile per-packet one-way delay: 61.876 ms
Loss rate: 10.90%

Run 2: Report of Verus — Data Link

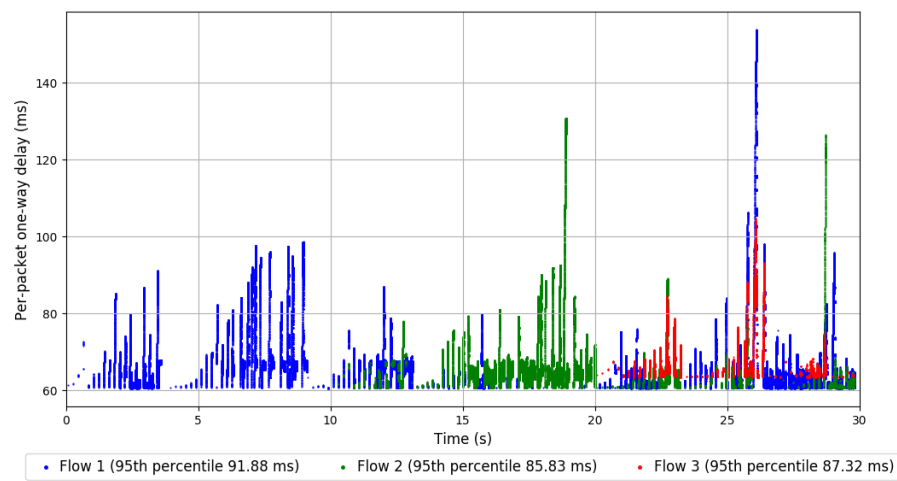
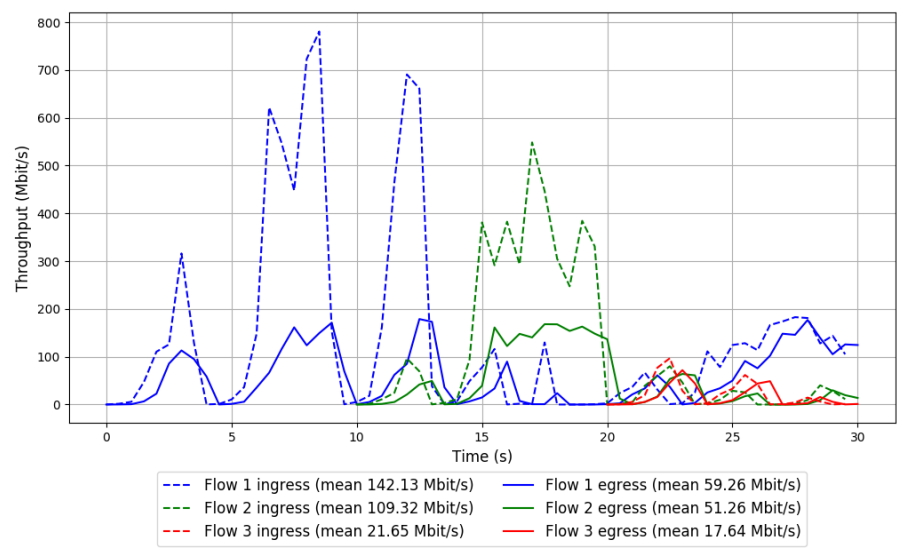


Run 3: Statistics of Verus

Start at: 2019-01-21 12:02:53
End at: 2019-01-21 12:03:23
Local clock offset: -0.526 ms
Remote clock offset: -38.016 ms

Below is generated by plot.py at 2019-01-21 14:47:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 98.97 Mbit/s
95th percentile per-packet one-way delay: 89.520 ms
Loss rate: 55.34%
-- Flow 1:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 91.883 ms
Loss rate: 58.30%
-- Flow 2:
Average throughput: 51.26 Mbit/s
95th percentile per-packet one-way delay: 85.832 ms
Loss rate: 53.11%
-- Flow 3:
Average throughput: 17.64 Mbit/s
95th percentile per-packet one-way delay: 87.321 ms
Loss rate: 18.49%

Run 3: Report of Verus — Data Link

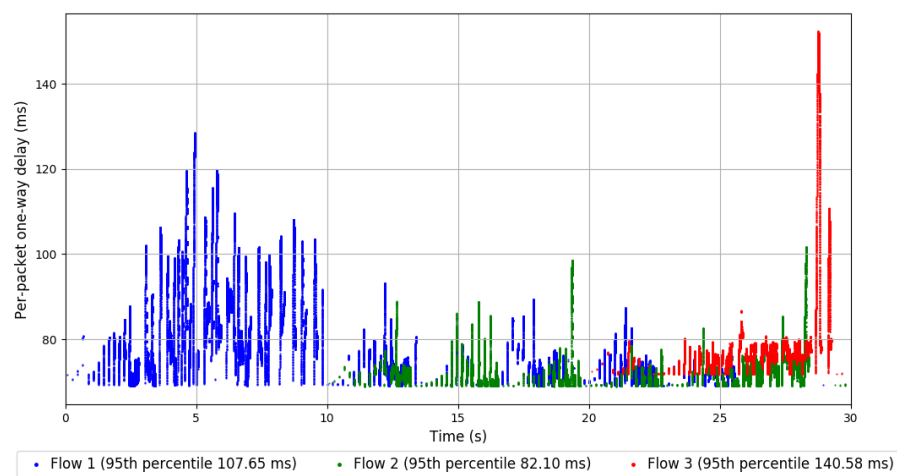
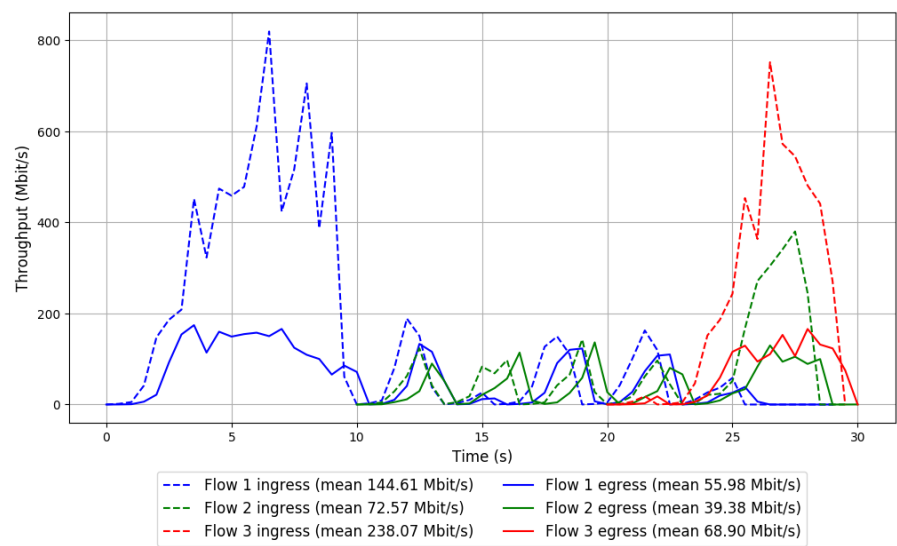


Run 4: Statistics of Verus

Start at: 2019-01-21 13:00:08
End at: 2019-01-21 13:00:38
Local clock offset: -1.667 ms
Remote clock offset: -31.863 ms

Below is generated by plot.py at 2019-01-21 14:47:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 102.65 Mbit/s
95th percentile per-packet one-way delay: 106.361 ms
Loss rate: 61.42%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 107.651 ms
Loss rate: 61.55%
-- Flow 2:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 82.097 ms
Loss rate: 45.74%
-- Flow 3:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 140.579 ms
Loss rate: 71.06%

Run 4: Report of Verus — Data Link

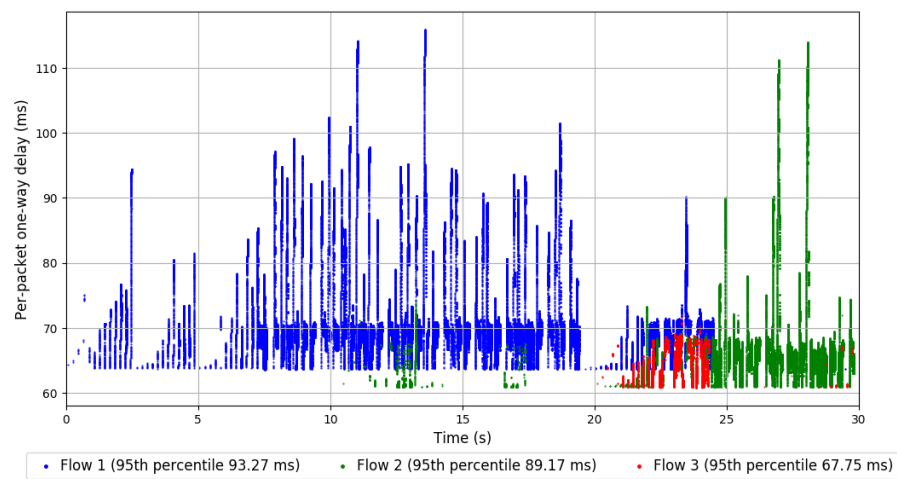
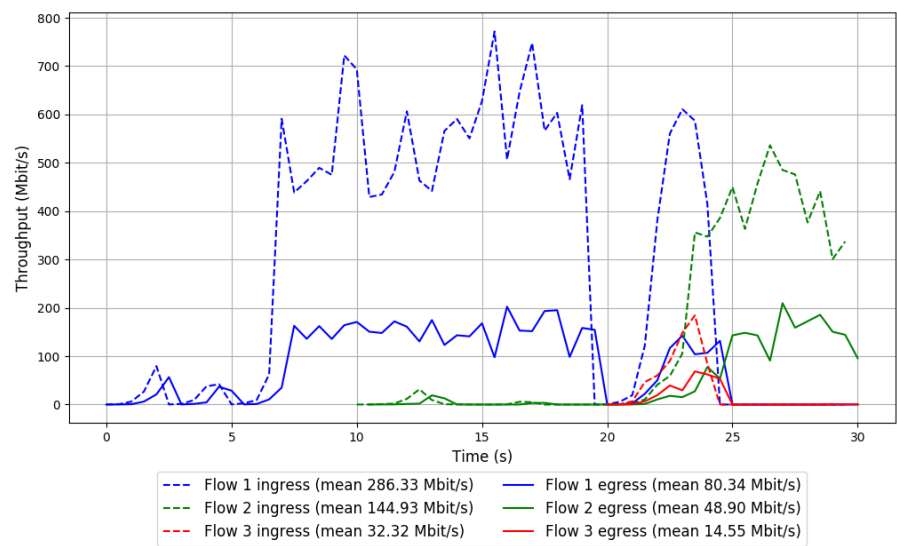


Run 5: Statistics of Verus

Start at: 2019-01-21 13:41:51
End at: 2019-01-21 13:42:21
Local clock offset: -3.393 ms
Remote clock offset: -38.97 ms

Below is generated by plot.py at 2019-01-21 14:47:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 115.94 Mbit/s
95th percentile per-packet one-way delay: 92.752 ms
Loss rate: 70.25%
-- Flow 1:
Average throughput: 80.34 Mbit/s
95th percentile per-packet one-way delay: 93.274 ms
Loss rate: 72.13%
-- Flow 2:
Average throughput: 48.90 Mbit/s
95th percentile per-packet one-way delay: 89.166 ms
Loss rate: 66.25%
-- Flow 3:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 67.752 ms
Loss rate: 54.95%

Run 5: Report of Verus — Data Link

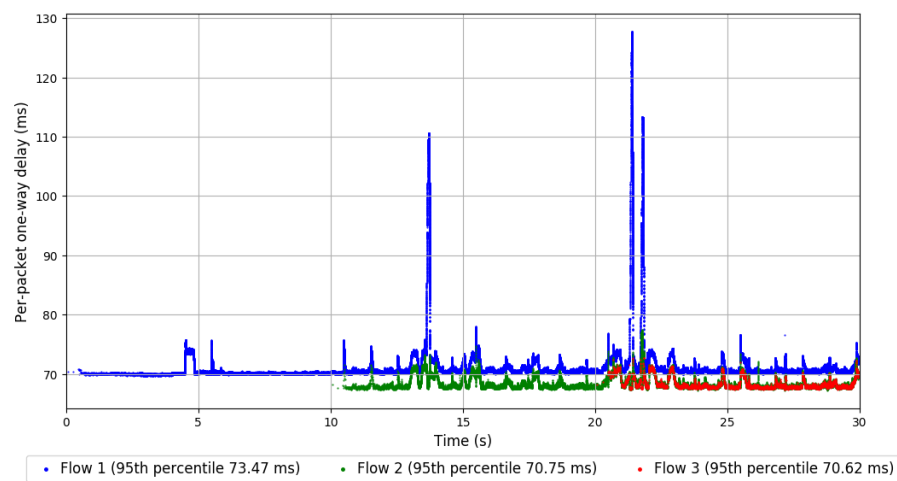
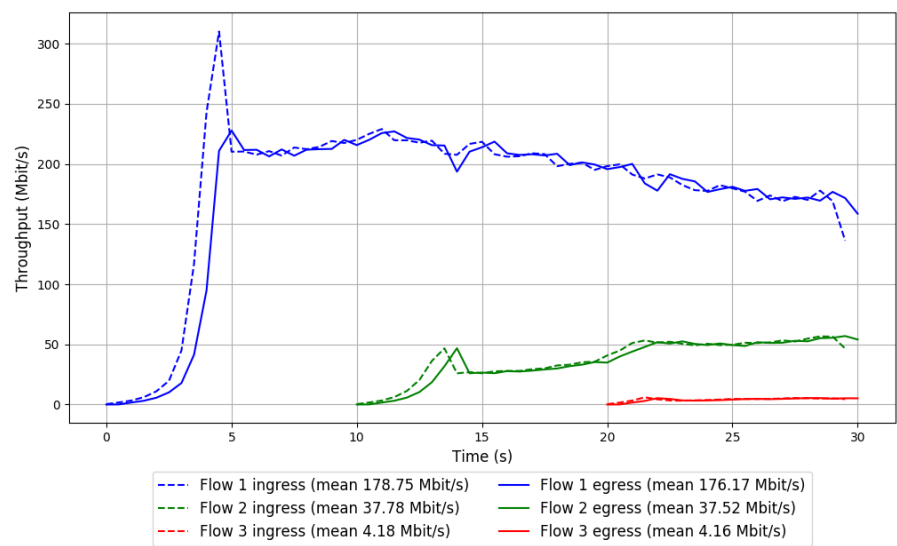


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-21 11:15:10
End at: 2019-01-21 11:15:40
Local clock offset: -2.182 ms
Remote clock offset: -33.775 ms

Below is generated by plot.py at 2019-01-21 14:47:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 202.50 Mbit/s
95th percentile per-packet one-way delay: 73.395 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 176.17 Mbit/s
95th percentile per-packet one-way delay: 73.469 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 37.52 Mbit/s
95th percentile per-packet one-way delay: 70.751 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 4.16 Mbit/s
95th percentile per-packet one-way delay: 70.617 ms
Loss rate: 0.56%

Run 1: Report of PCC-Vivace — Data Link

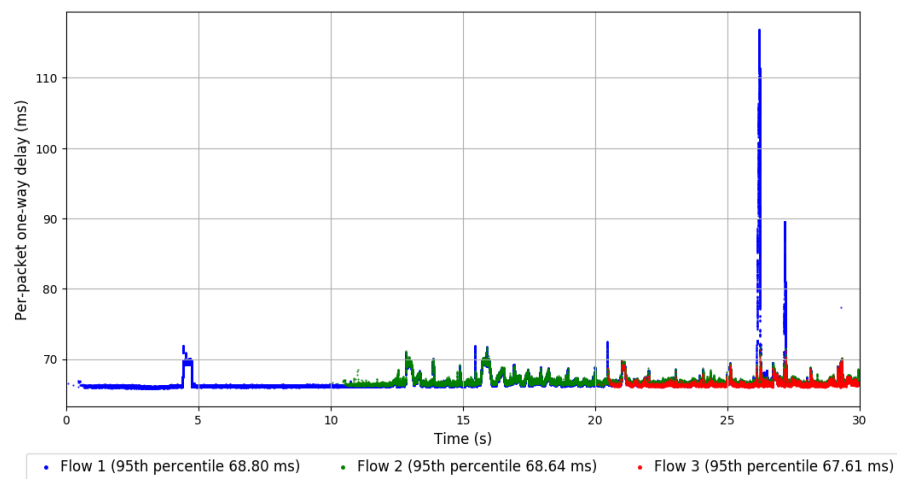
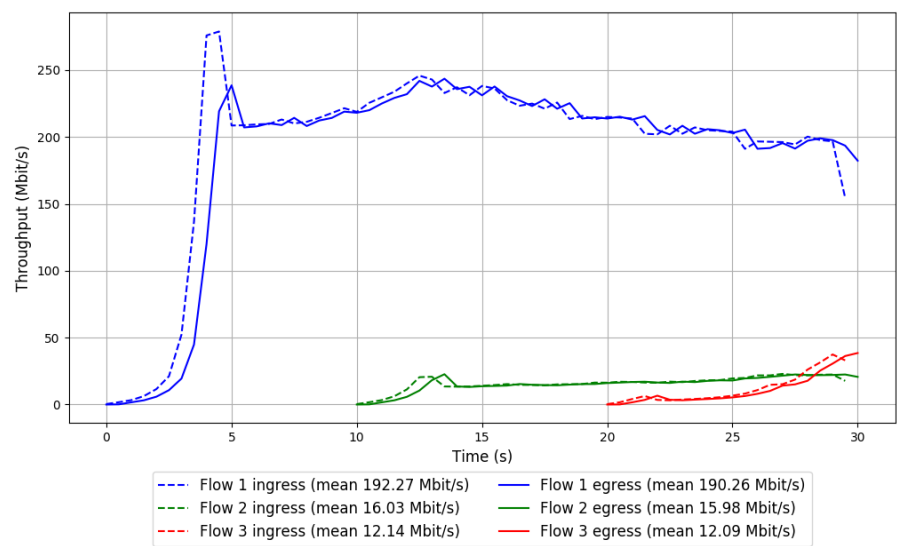


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-21 11:51:02
End at: 2019-01-21 11:51:32
Local clock offset: -2.346 ms
Remote clock offset: -33.991 ms

Below is generated by plot.py at 2019-01-21 14:48:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 204.88 Mbit/s
95th percentile per-packet one-way delay: 68.751 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 190.26 Mbit/s
95th percentile per-packet one-way delay: 68.802 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 68.635 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 67.609 ms
Loss rate: 0.34%

Run 2: Report of PCC-Vivace — Data Link

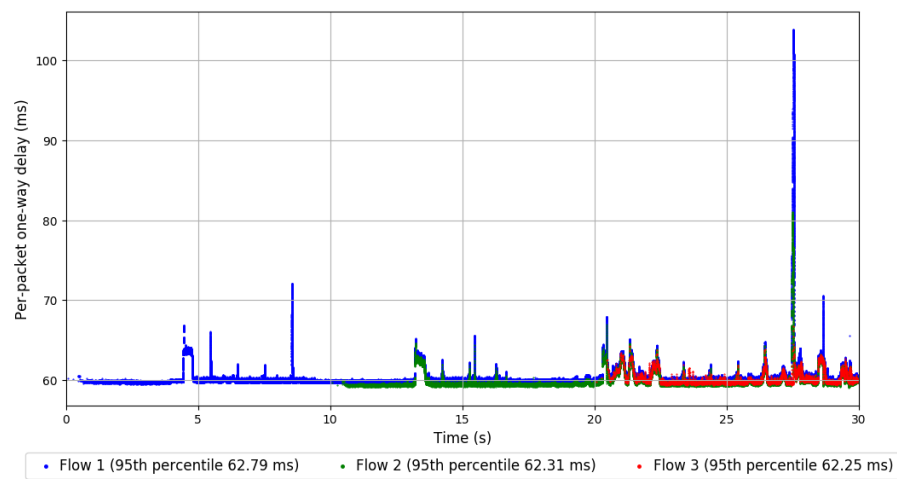
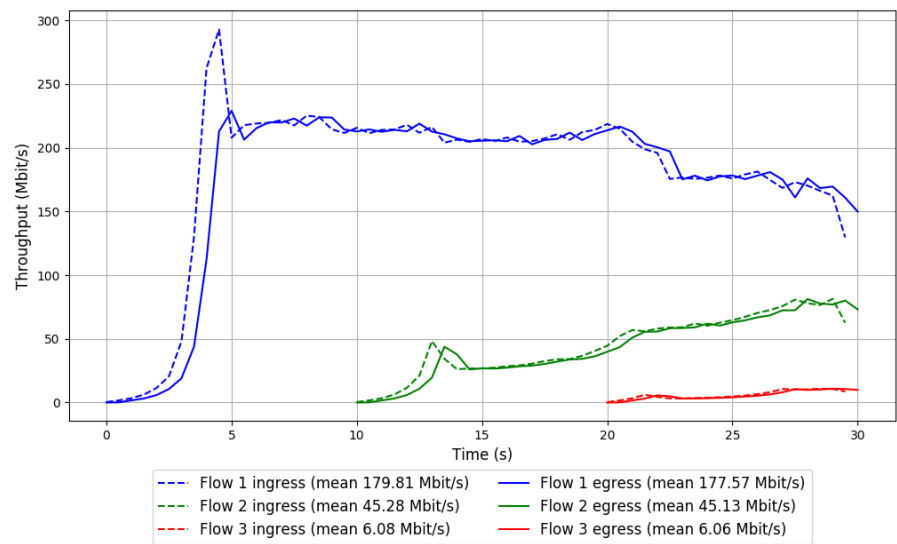


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-21 12:37:04
End at: 2019-01-21 12:37:34
Local clock offset: 0.936 ms
Remote clock offset: -38.242 ms

Below is generated by plot.py at 2019-01-21 14:48:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 209.59 Mbit/s
95th percentile per-packet one-way delay: 62.641 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 177.57 Mbit/s
95th percentile per-packet one-way delay: 62.790 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 45.13 Mbit/s
95th percentile per-packet one-way delay: 62.314 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 6.06 Mbit/s
95th percentile per-packet one-way delay: 62.246 ms
Loss rate: 0.39%

Run 3: Report of PCC-Vivace — Data Link

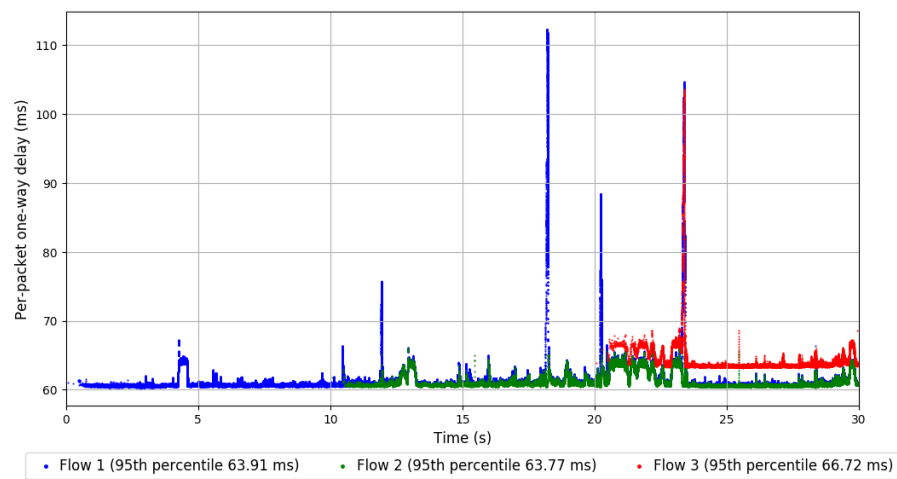
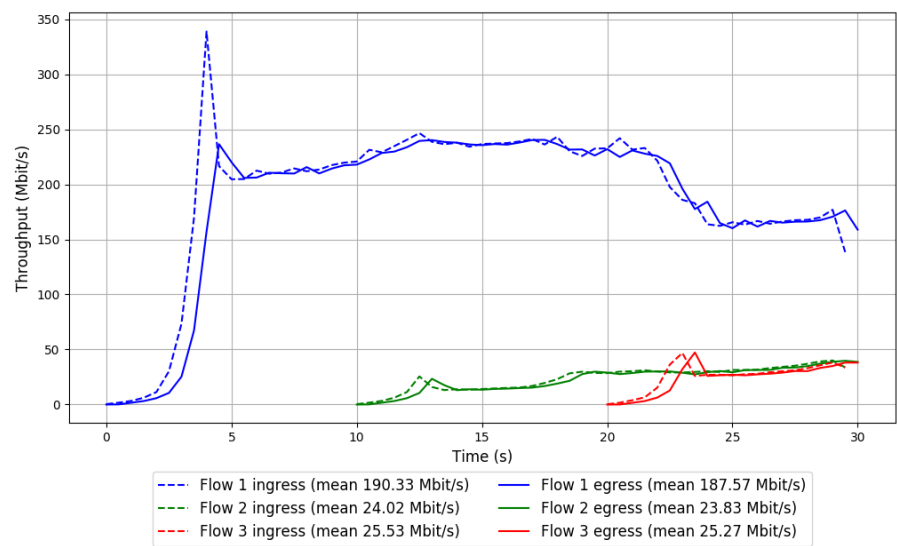


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-21 13:30:00
End at: 2019-01-21 13:30:30
Local clock offset: -2.969 ms
Remote clock offset: -39.586 ms

Below is generated by plot.py at 2019-01-21 14:48:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 211.73 Mbit/s
95th percentile per-packet one-way delay: 63.966 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 187.57 Mbit/s
95th percentile per-packet one-way delay: 63.913 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 63.765 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 25.27 Mbit/s
95th percentile per-packet one-way delay: 66.724 ms
Loss rate: 0.97%

Run 4: Report of PCC-Vivace — Data Link

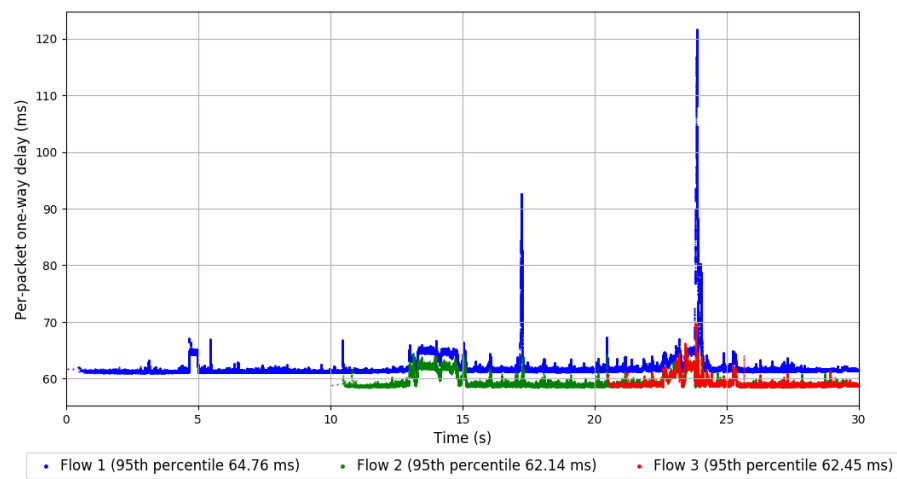
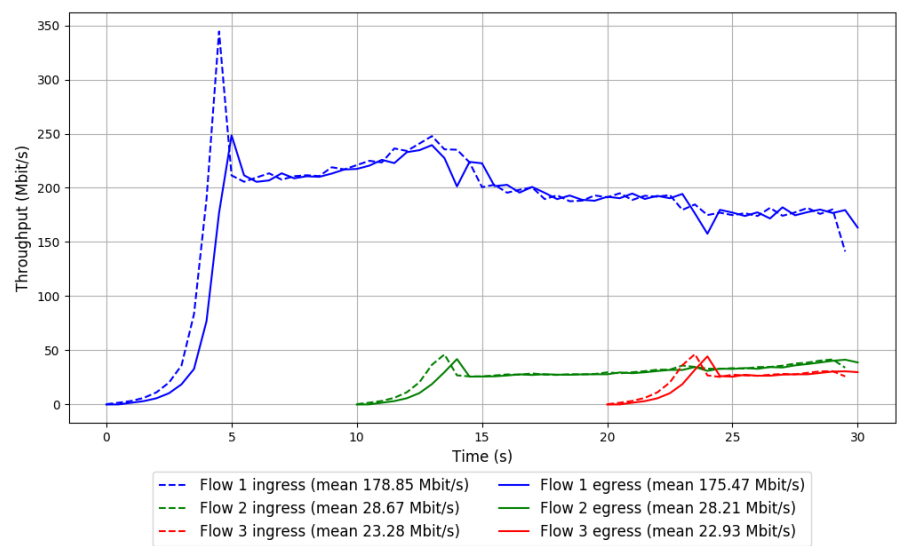


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-21 14:06:05
End at: 2019-01-21 14:06:35
Local clock offset: -3.394 ms
Remote clock offset: -42.113 ms

Below is generated by plot.py at 2019-01-21 14:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 201.81 Mbit/s
95th percentile per-packet one-way delay: 64.720 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 175.47 Mbit/s
95th percentile per-packet one-way delay: 64.762 ms
Loss rate: 1.90%
-- Flow 2:
Average throughput: 28.21 Mbit/s
95th percentile per-packet one-way delay: 62.142 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 62.447 ms
Loss rate: 1.50%

Run 5: Report of PCC-Vivace — Data Link

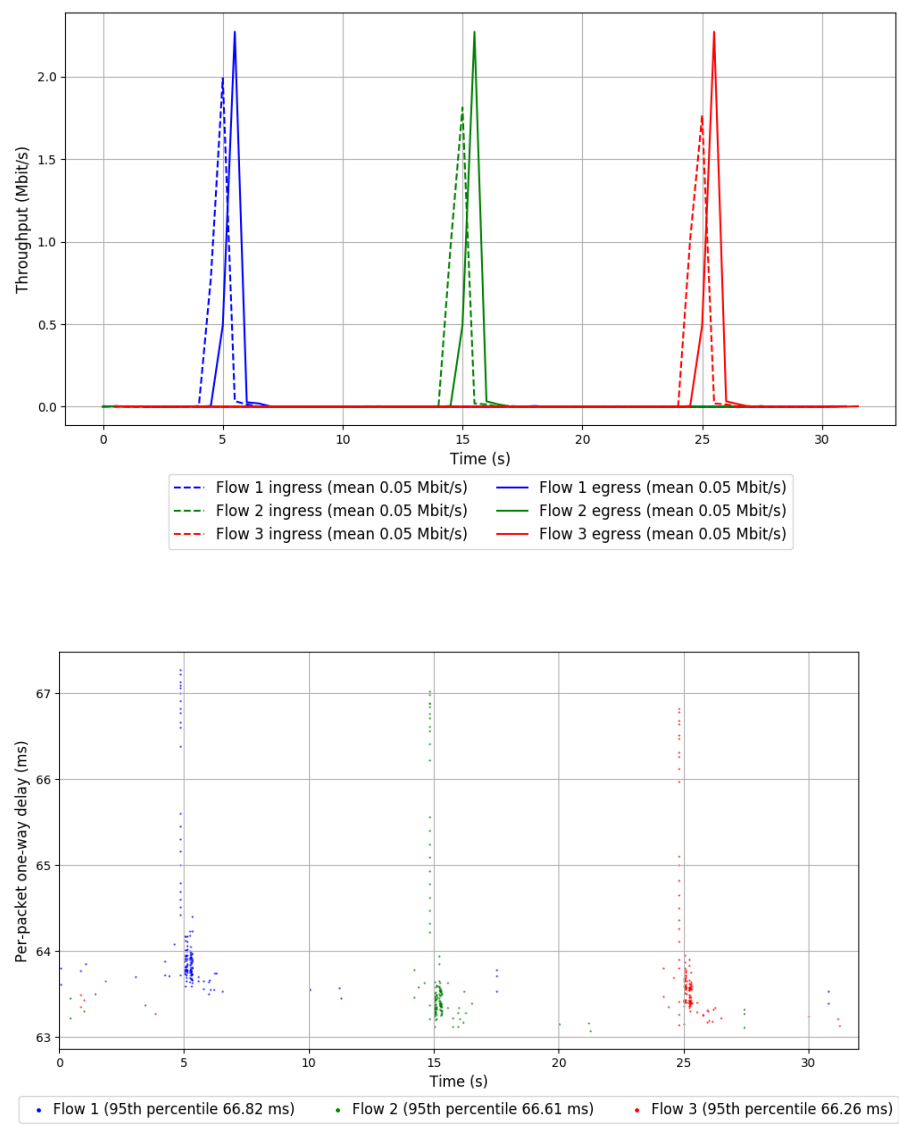


Run 1: Statistics of WebRTC media

Start at: 2019-01-21 11:07:54
End at: 2019-01-21 11:08:24
Local clock offset: -2.615 ms
Remote clock offset: -38.577 ms

Below is generated by plot.py at 2019-01-21 14:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 66.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.816 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.605 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.261 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

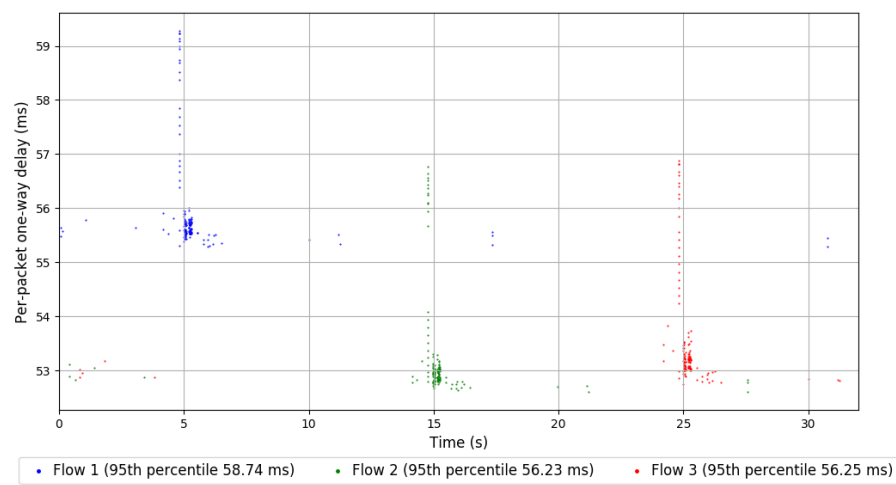
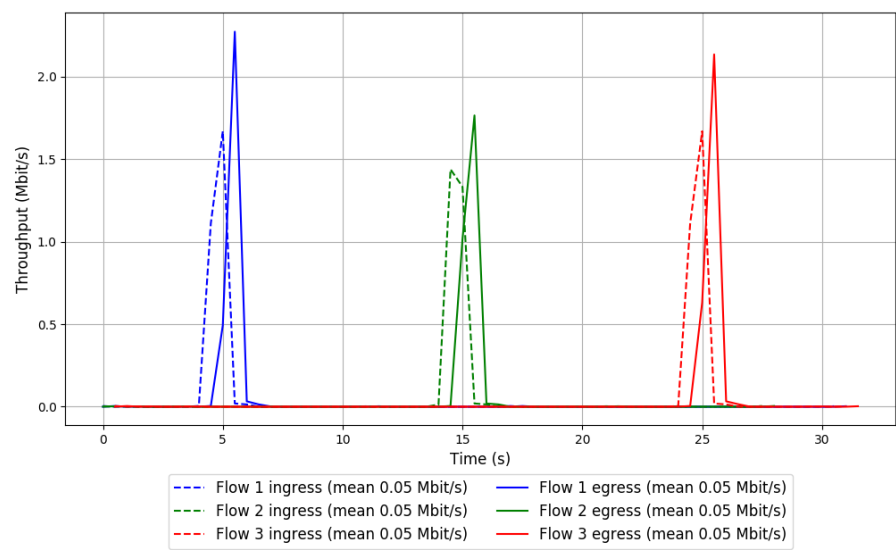


Run 2: Statistics of WebRTC media

Start at: 2019-01-21 11:38:19
End at: 2019-01-21 11:38:49
Local clock offset: -1.945 ms
Remote clock offset: -46.076 ms

Below is generated by plot.py at 2019-01-21 14:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 56.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 58.745 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.233 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 56.252 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

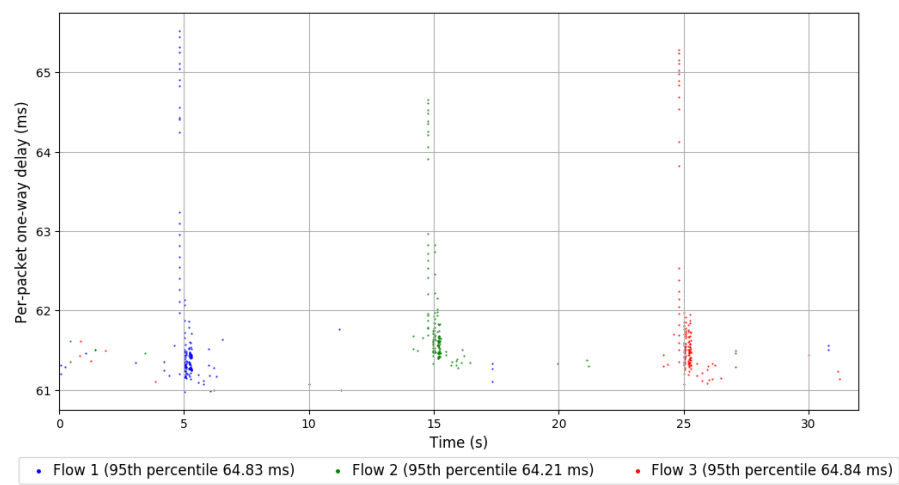
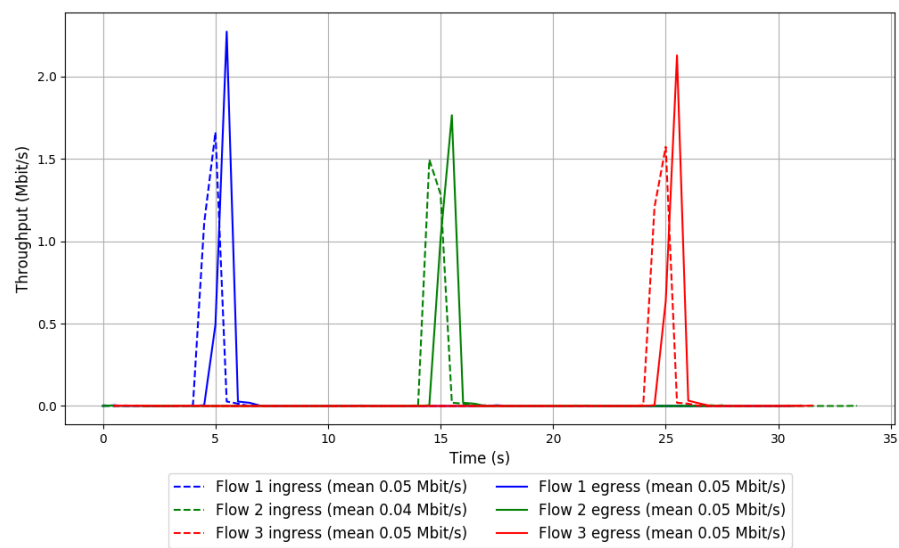


Run 3: Statistics of WebRTC media

Start at: 2019-01-21 12:29:49
End at: 2019-01-21 12:30:19
Local clock offset: -0.002 ms
Remote clock offset: -37.712 ms

Below is generated by plot.py at 2019-01-21 14:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 64.482 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.825 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.213 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.845 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

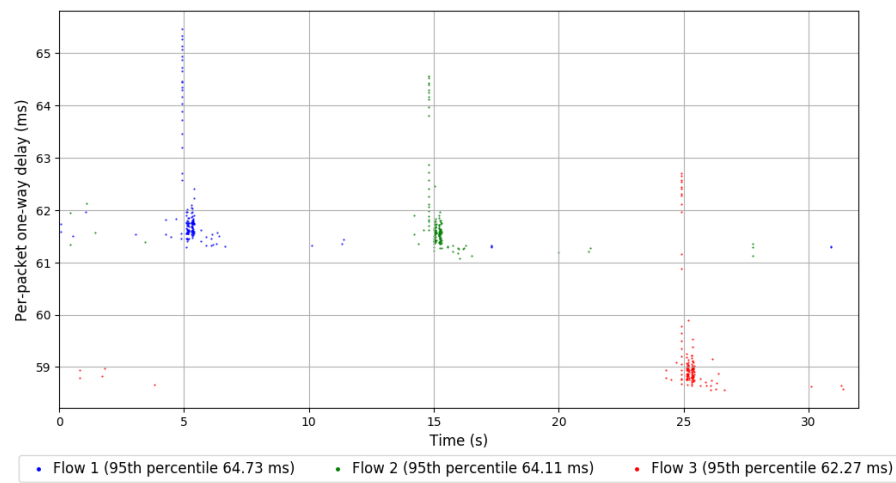
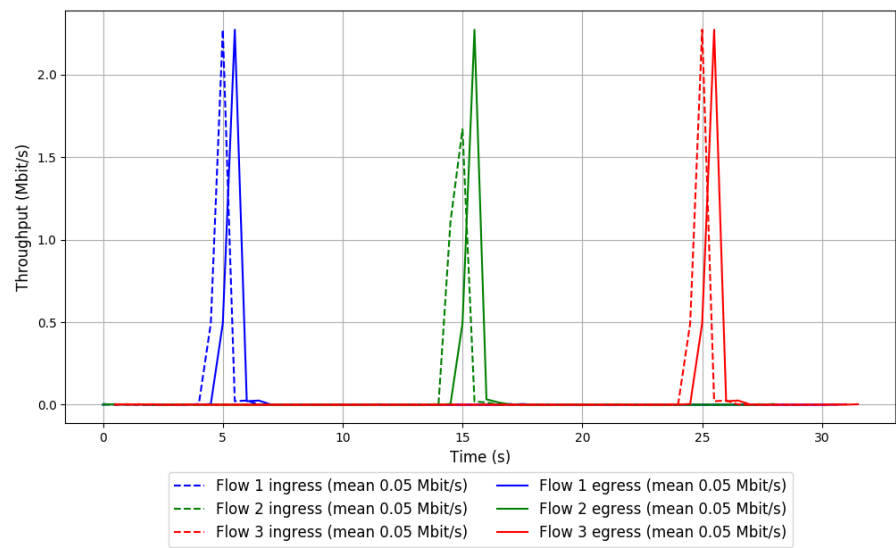


Run 4: Statistics of WebRTC media

Start at: 2019-01-21 13:22:46
End at: 2019-01-21 13:23:16
Local clock offset: -0.885 ms
Remote clock offset: -40.285 ms

Below is generated by plot.py at 2019-01-21 14:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 64.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.727 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.114 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.269 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-21 13:53:12
End at: 2019-01-21 13:53:42
Local clock offset: -4.396 ms
Remote clock offset: -38.482 ms

Below is generated by plot.py at 2019-01-21 14:48:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 67.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 67.202 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 66.878 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 69.662 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

