

Pantheon Report

Generated at 2018-06-06 12:03:06 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

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

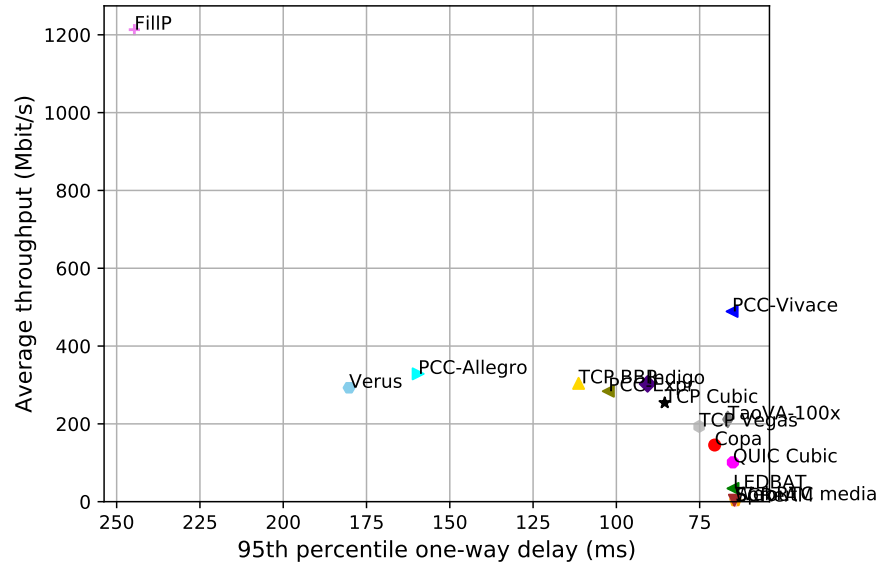
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

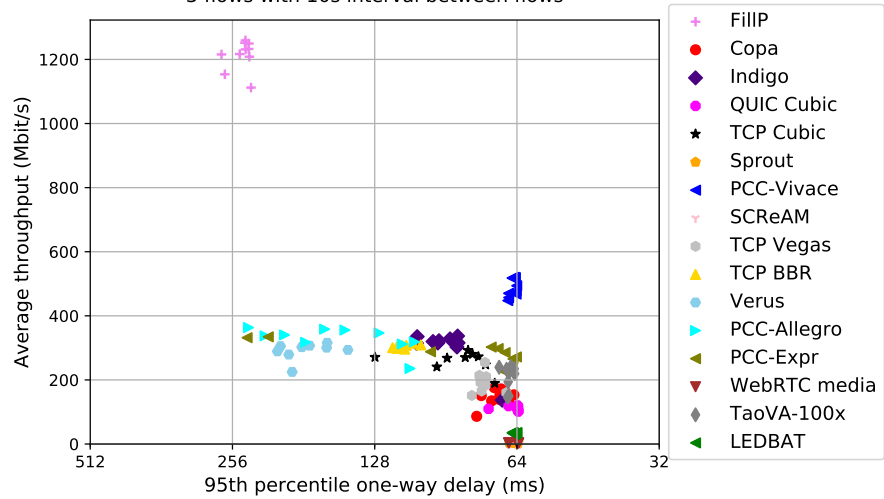
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/llnwd @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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 @ c838669682f0c19f6baf92afc9a596a406d48c1f
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 GCE Iowa to GCE Tokyo, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Iowa to GCE Tokyo, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



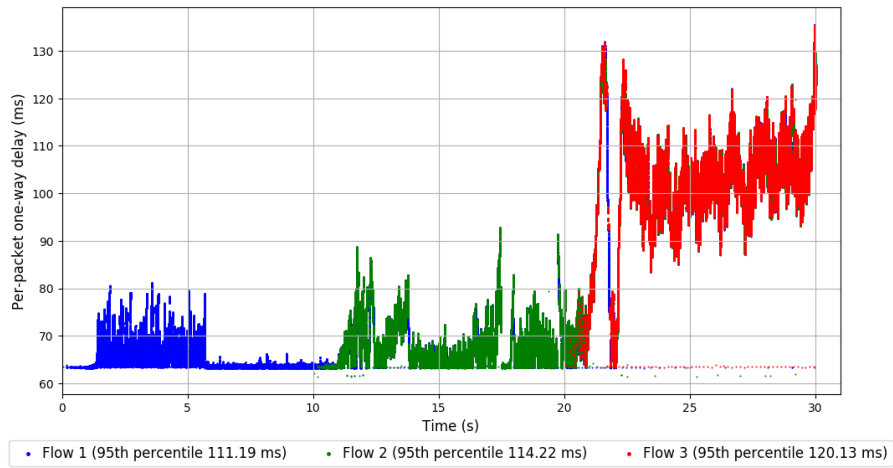
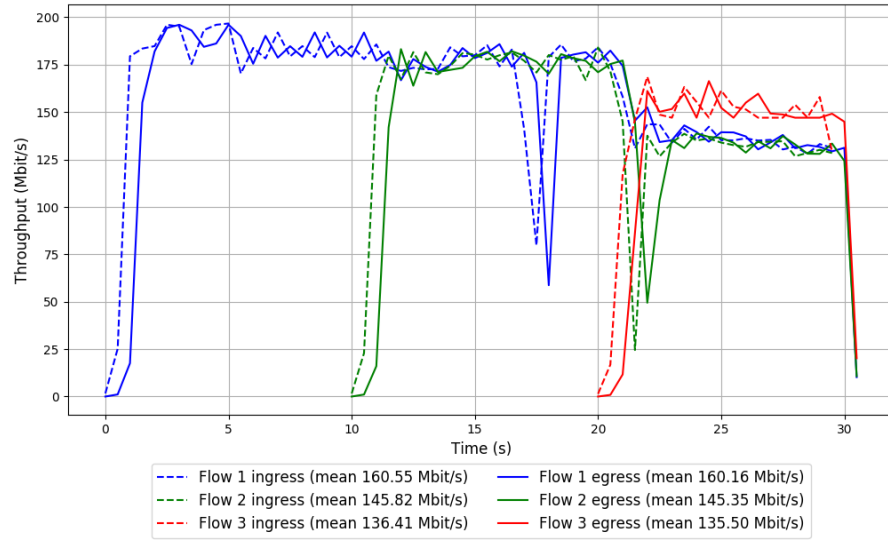
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	160.18	151.57	129.51	108.68	111.10	116.98	0.08	0.12	0.28
Copa	10	83.51	70.75	63.85	69.72	73.18	71.25	0.00	0.00	0.03
TCP Cubic	10	160.32	114.17	53.69	84.56	85.51	86.47	0.00	0.08	0.62
FillP	10	634.94	602.99	532.93	249.23	238.52	190.99	0.60	1.09	0.42
Indigo	10	173.28	153.97	84.22	87.66	91.31	95.40	0.02	0.04	0.07
LEDBAT	10	22.16	14.23	7.36	65.11	64.79	64.34	0.01	0.00	0.00
PCC-Allegro	10	286.64	49.44	27.45	158.08	160.73	148.64	0.37	0.27	0.46
PCC-Expr	10	179.02	139.42	36.67	99.35	106.92	108.32	0.57	1.10	1.63
QUIC Cubic	10	55.43	47.02	44.30	65.01	64.17	64.40	0.00	0.00	0.01
SCReAM	10	0.22	0.22	0.22	64.44	64.26	63.96	0.01	0.00	0.00
Sprout	10	1.02	0.88	2.15	63.82	64.35	63.75	0.00	0.00	0.00
TaoVA-100x	10	132.53	88.98	68.90	65.42	67.75	69.63	0.00	0.00	0.00
TCP Vegas	10	99.18	112.84	57.04	74.37	73.75	72.37	0.01	0.04	0.06
Verus	10	195.24	111.02	73.29	172.43	180.58	184.81	0.49	0.71	1.36
PCC-Vivace	10	298.50	226.47	120.84	65.93	64.96	64.12	0.00	0.00	0.01
WebRTC media	10	2.00	1.34	0.54	64.59	64.02	64.28	0.01	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-06 06:28:59
End at: 2018-06-06 06:29:29
Local clock offset: -0.114 ms
Remote clock offset: -0.572 ms

Below is generated by plot.py at 2018-06-06 10:17:50
Datalink statistics
-- Total of 3 flows:
Average throughput: 302.10 Mbit/s
95th percentile per-packet one-way delay: 114.102 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 160.16 Mbit/s
95th percentile per-packet one-way delay: 111.190 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 145.35 Mbit/s
95th percentile per-packet one-way delay: 114.220 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 135.50 Mbit/s
95th percentile per-packet one-way delay: 120.134 ms
Loss rate: 0.16%

Run 1: Report of TCP BBR — Data Link

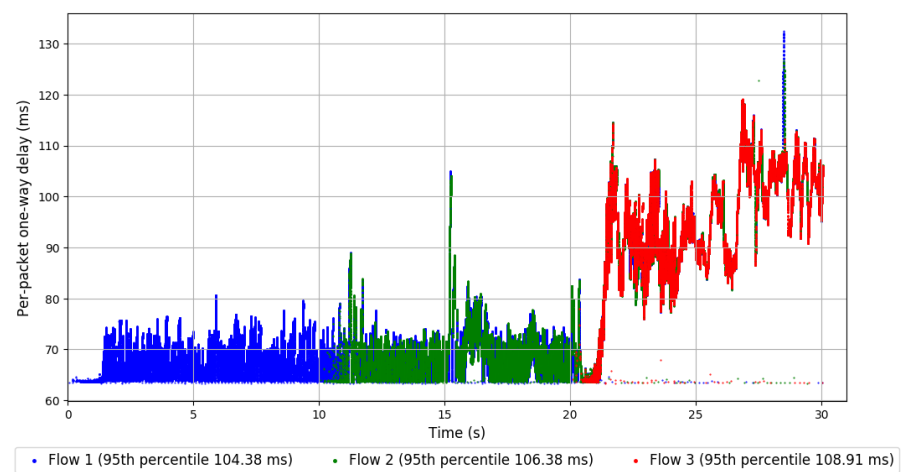
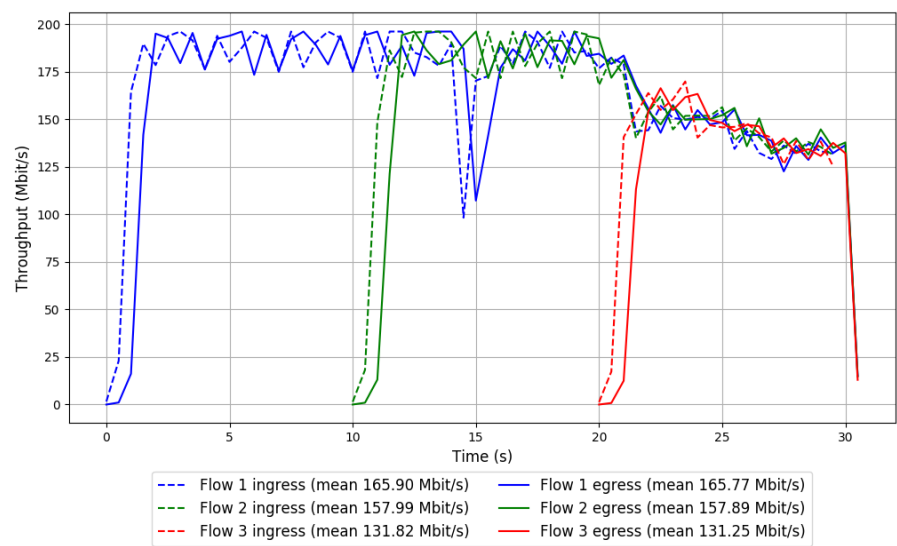


Run 2: Statistics of TCP BBR

Start at: 2018-06-06 06:51:20
End at: 2018-06-06 06:51:50
Local clock offset: -0.074 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-06-06 10:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 314.55 Mbit/s
95th percentile per-packet one-way delay: 106.276 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 165.77 Mbit/s
95th percentile per-packet one-way delay: 104.381 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 157.89 Mbit/s
95th percentile per-packet one-way delay: 106.380 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 131.25 Mbit/s
95th percentile per-packet one-way delay: 108.907 ms
Loss rate: 0.43%

Run 2: Report of TCP BBR — Data Link

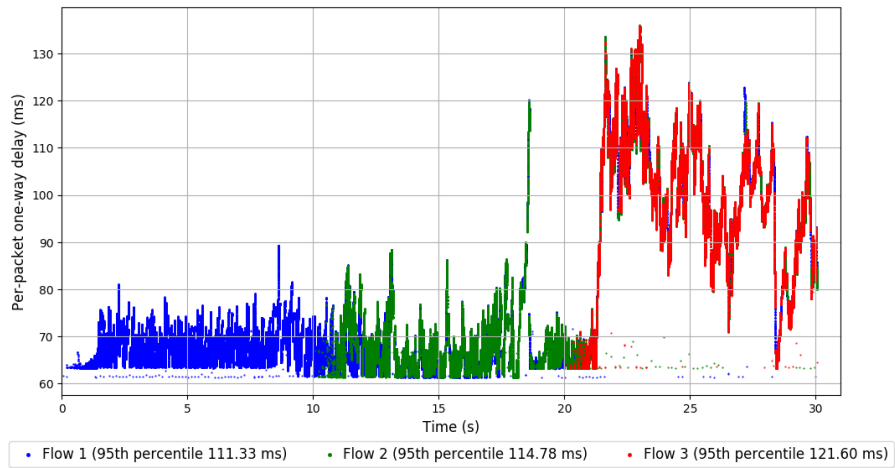
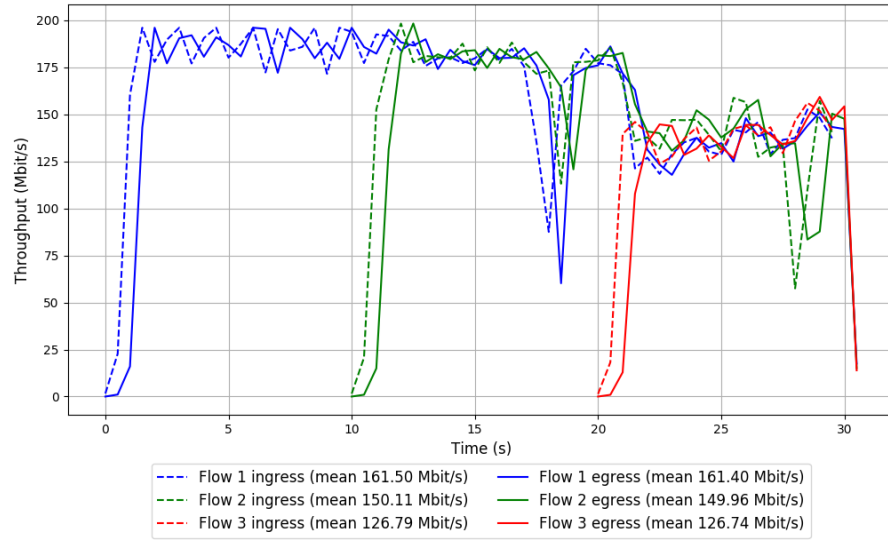


Run 3: Statistics of TCP BBR

Start at: 2018-06-06 07:13:52
End at: 2018-06-06 07:14:22
Local clock offset: -0.053 ms
Remote clock offset: -0.556 ms

Below is generated by plot.py at 2018-06-06 10:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 303.35 Mbit/s
95th percentile per-packet one-way delay: 114.906 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 161.40 Mbit/s
95th percentile per-packet one-way delay: 111.334 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 149.96 Mbit/s
95th percentile per-packet one-way delay: 114.784 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 126.74 Mbit/s
95th percentile per-packet one-way delay: 121.601 ms
Loss rate: 0.10%

Run 3: Report of TCP BBR — Data Link

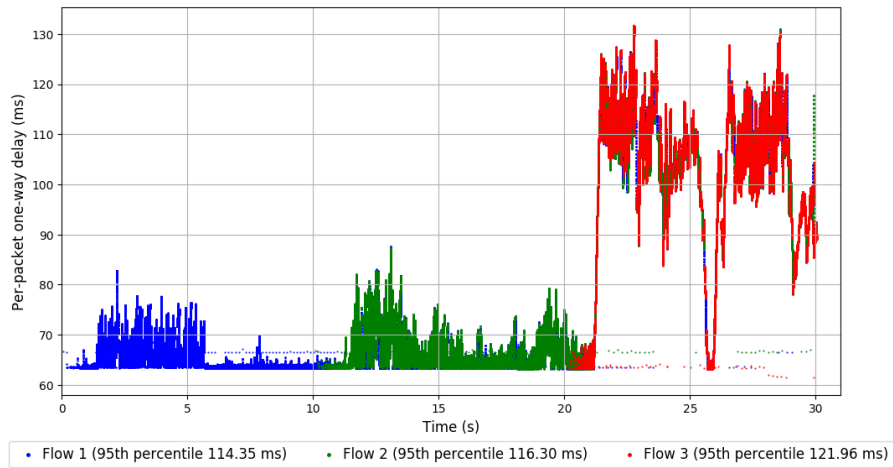
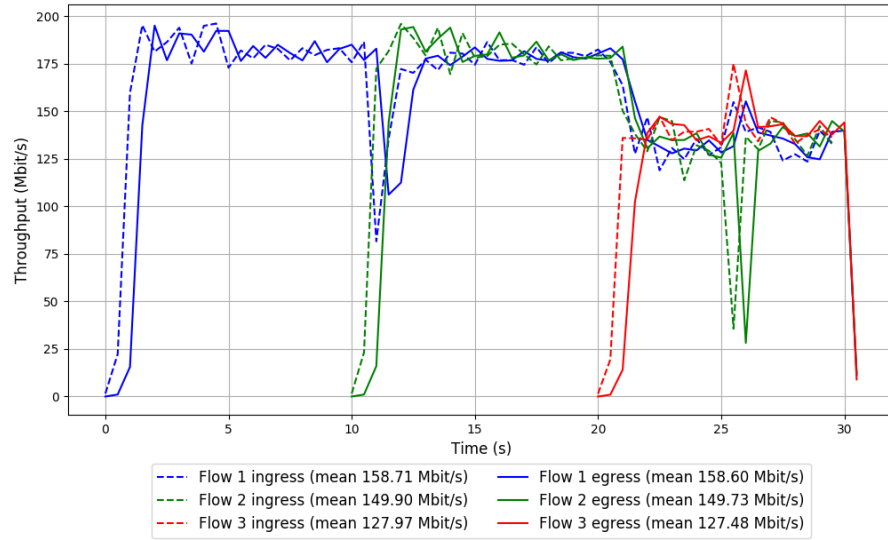


Run 4: Statistics of TCP BBR

Start at: 2018-06-06 07:36:13
End at: 2018-06-06 07:36:43
Local clock offset: 0.014 ms
Remote clock offset: -0.584 ms

Below is generated by plot.py at 2018-06-06 10:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 300.72 Mbit/s
95th percentile per-packet one-way delay: 117.302 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 158.60 Mbit/s
95th percentile per-packet one-way delay: 114.347 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 149.73 Mbit/s
95th percentile per-packet one-way delay: 116.296 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 127.48 Mbit/s
95th percentile per-packet one-way delay: 121.961 ms
Loss rate: 0.37%

Run 4: Report of TCP BBR — Data Link

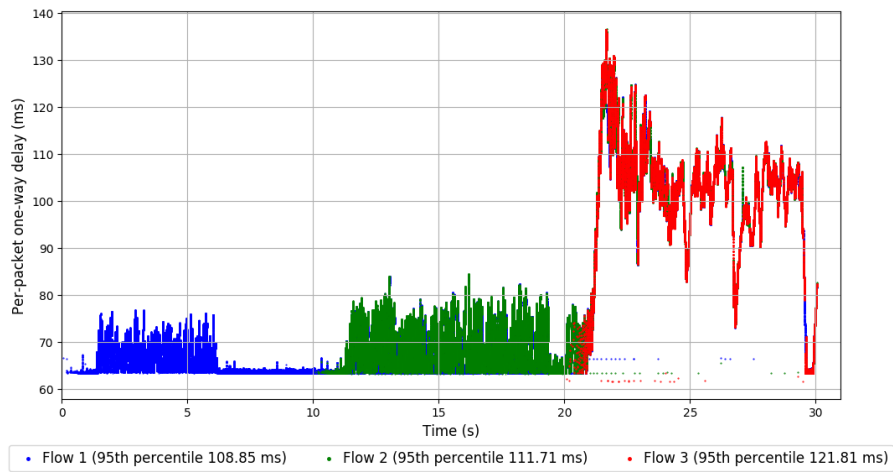
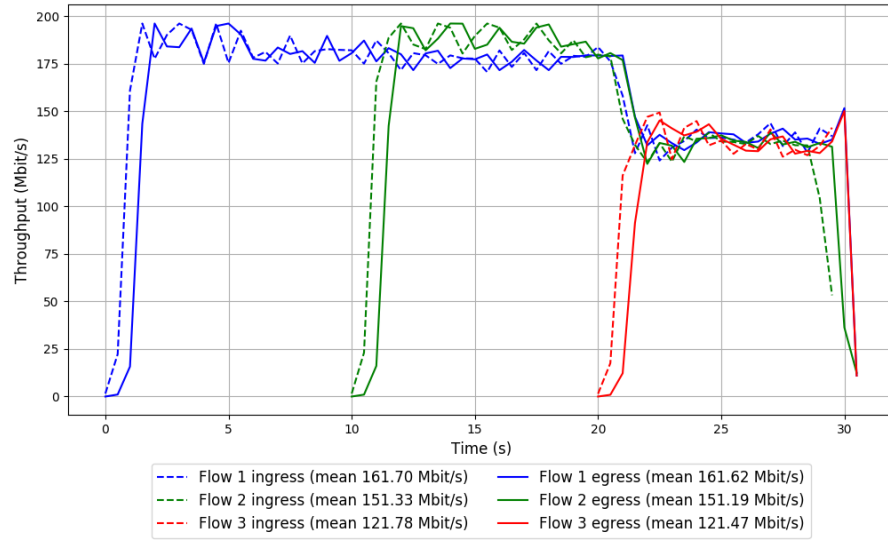


Run 5: Statistics of TCP BBR

Start at: 2018-06-06 07:58:30
End at: 2018-06-06 07:59:00
Local clock offset: -0.068 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-06 10:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 302.72 Mbit/s
95th percentile per-packet one-way delay: 111.702 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 161.62 Mbit/s
95th percentile per-packet one-way delay: 108.854 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 151.19 Mbit/s
95th percentile per-packet one-way delay: 111.706 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 121.47 Mbit/s
95th percentile per-packet one-way delay: 121.806 ms
Loss rate: 0.23%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-06 08:20:52

End at: 2018-06-06 08:21:22

Local clock offset: -0.022 ms

Remote clock offset: 0.215 ms

Below is generated by plot.py at 2018-06-06 10:18:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 296.11 Mbit/s

95th percentile per-packet one-way delay: 110.614 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 153.68 Mbit/s

95th percentile per-packet one-way delay: 107.501 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 150.89 Mbit/s

95th percentile per-packet one-way delay: 110.025 ms

Loss rate: 0.00%

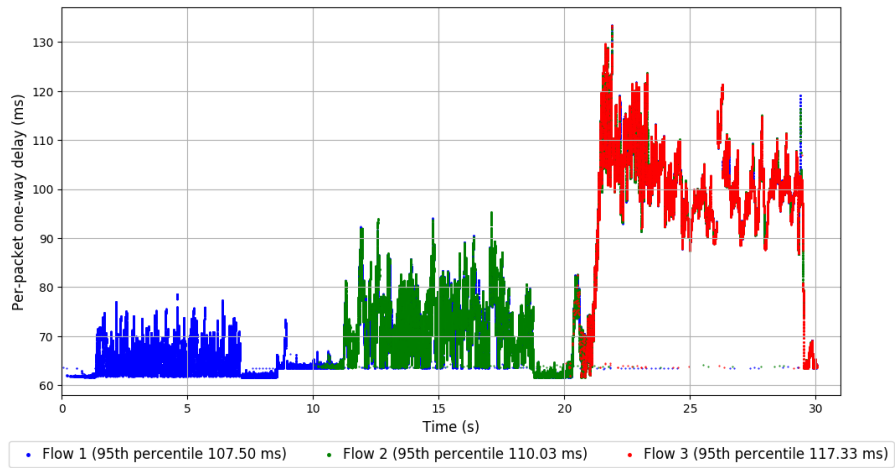
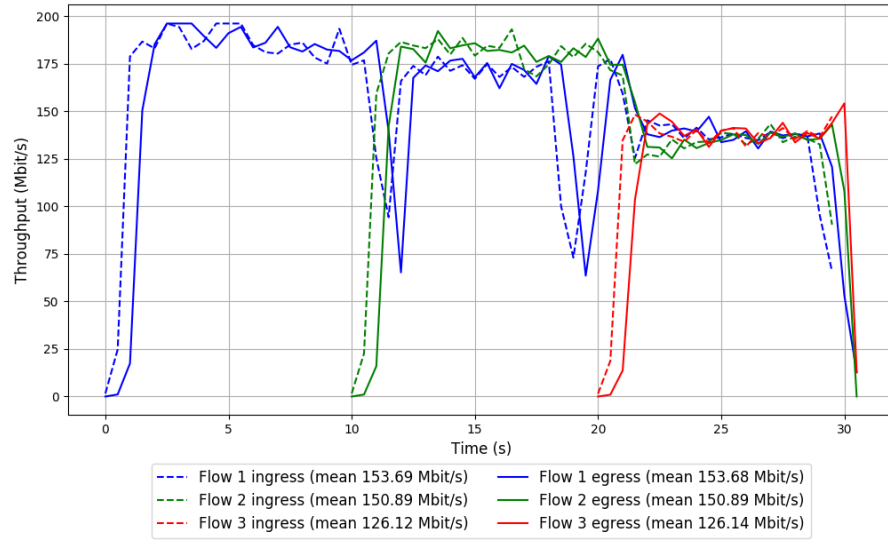
-- Flow 3:

Average throughput: 126.14 Mbit/s

95th percentile per-packet one-way delay: 117.335 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-06 08:43:24

End at: 2018-06-06 08:43:54

Local clock offset: -0.036 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2018-06-06 10:18:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 308.20 Mbit/s

95th percentile per-packet one-way delay: 109.775 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 160.05 Mbit/s

95th percentile per-packet one-way delay: 106.843 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 153.30 Mbit/s

95th percentile per-packet one-way delay: 109.989 ms

Loss rate: 0.15%

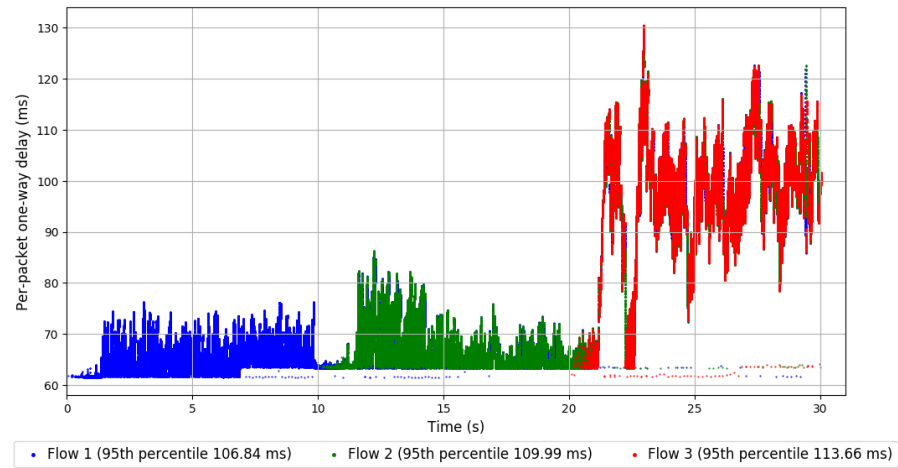
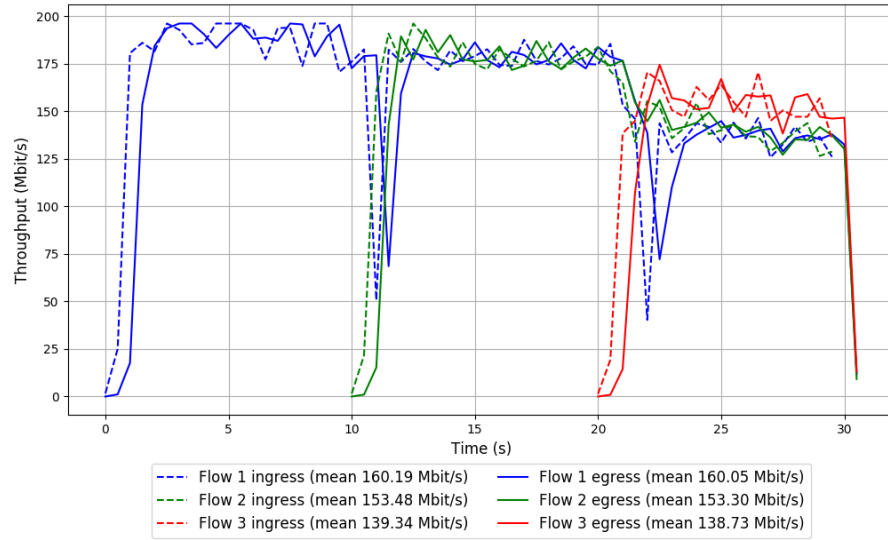
-- Flow 3:

Average throughput: 138.73 Mbit/s

95th percentile per-packet one-way delay: 113.656 ms

Loss rate: 0.39%

Run 7: Report of TCP BBR — Data Link

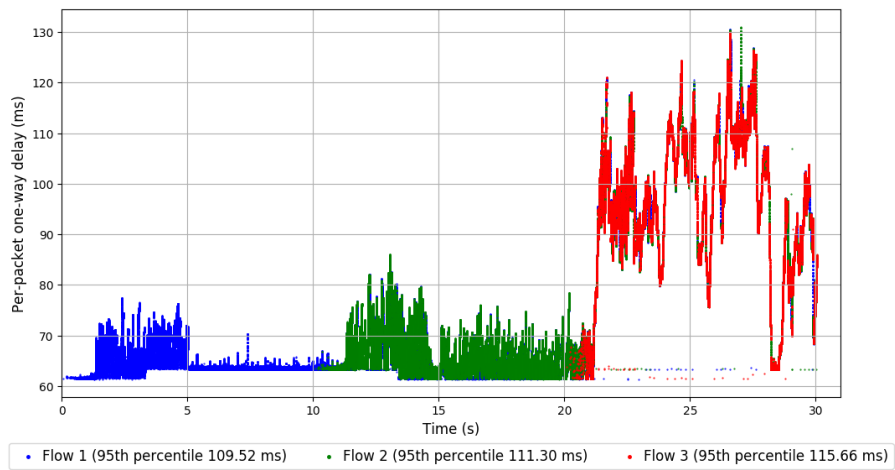
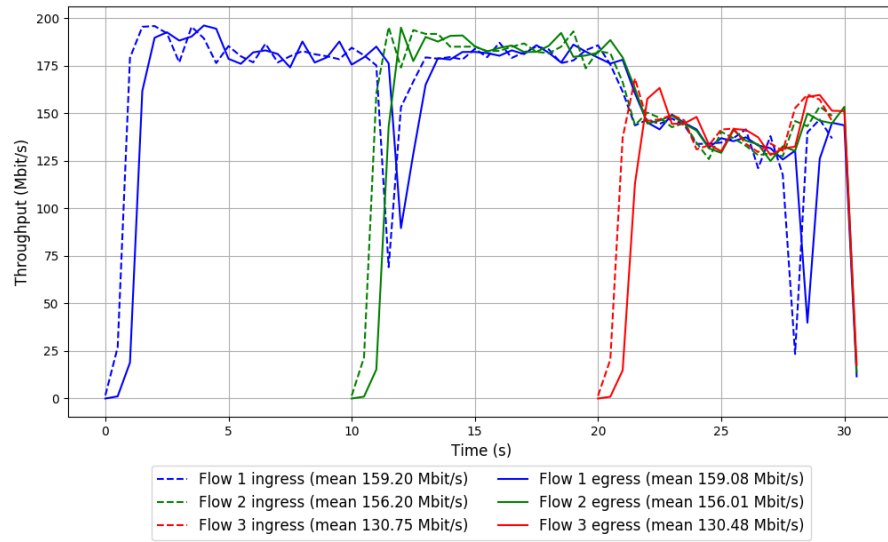


Run 8: Statistics of TCP BBR

Start at: 2018-06-06 09:05:48
End at: 2018-06-06 09:06:18
Local clock offset: -0.106 ms
Remote clock offset: -0.146 ms

Below is generated by plot.py at 2018-06-06 10:18:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.35 Mbit/s
95th percentile per-packet one-way delay: 111.619 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 159.08 Mbit/s
95th percentile per-packet one-way delay: 109.524 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 156.01 Mbit/s
95th percentile per-packet one-way delay: 111.302 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 130.48 Mbit/s
95th percentile per-packet one-way delay: 115.658 ms
Loss rate: 0.22%

Run 8: Report of TCP BBR — Data Link

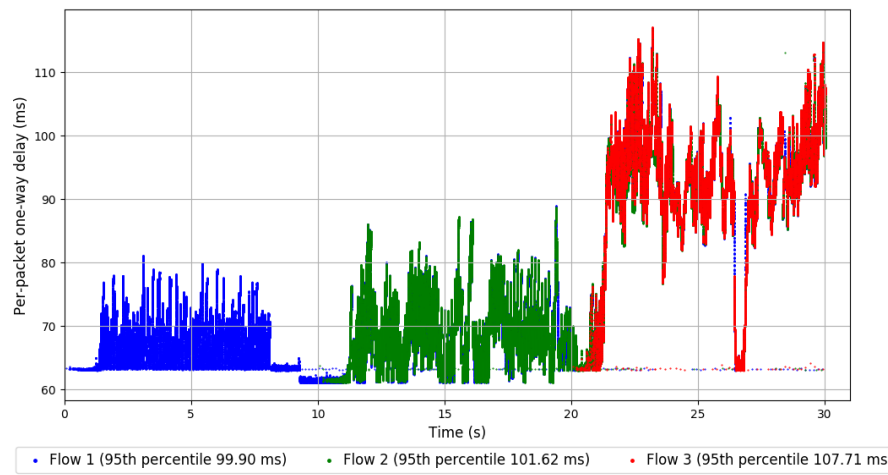
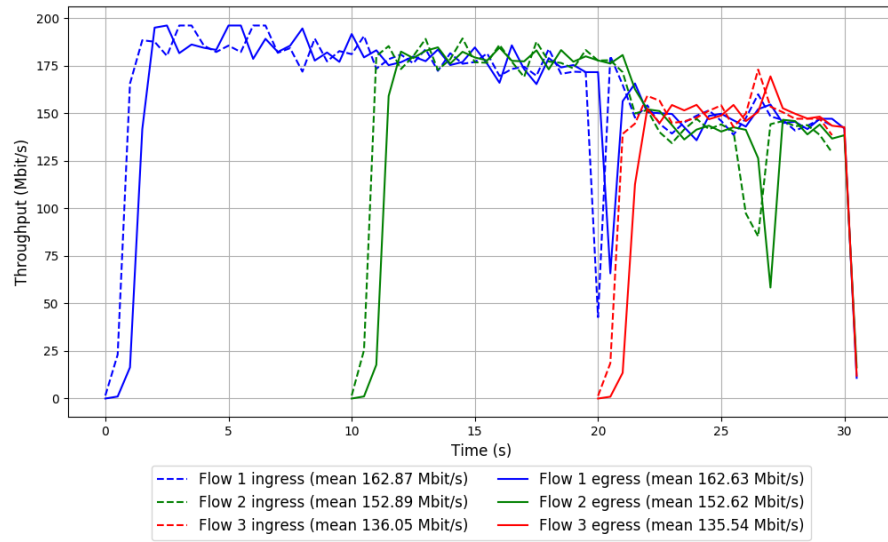


Run 9: Statistics of TCP BBR

Start at: 2018-06-06 09:28:12
End at: 2018-06-06 09:28:42
Local clock offset: -0.091 ms
Remote clock offset: -0.392 ms

Below is generated by plot.py at 2018-06-06 10:22:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 309.24 Mbit/s
95th percentile per-packet one-way delay: 102.276 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 162.63 Mbit/s
95th percentile per-packet one-way delay: 99.904 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 152.62 Mbit/s
95th percentile per-packet one-way delay: 101.617 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 135.54 Mbit/s
95th percentile per-packet one-way delay: 107.707 ms
Loss rate: 0.59%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-06 09:50:47

End at: 2018-06-06 09:51:17

Local clock offset: -0.108 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-06-06 10:22:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 298.42 Mbit/s

95th percentile per-packet one-way delay: 114.820 ms

Loss rate: 0.12%

-- Flow 1:

Average throughput: 158.76 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 148.81 Mbit/s

95th percentile per-packet one-way delay: 114.667 ms

Loss rate: 0.12%

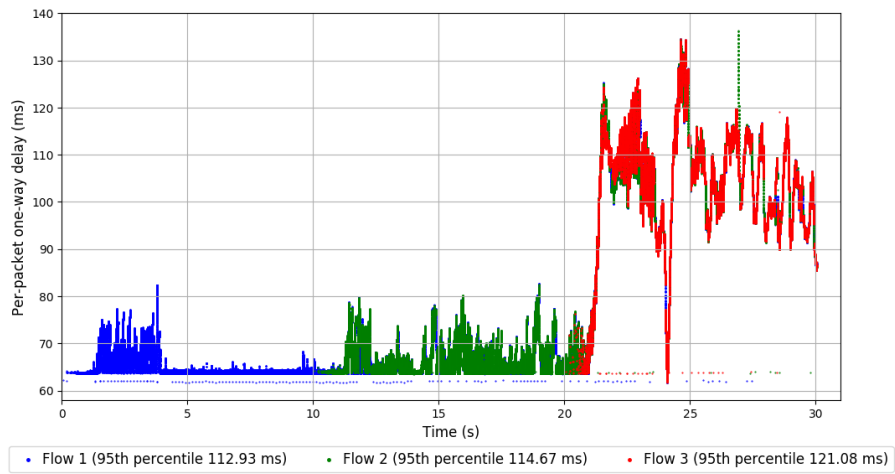
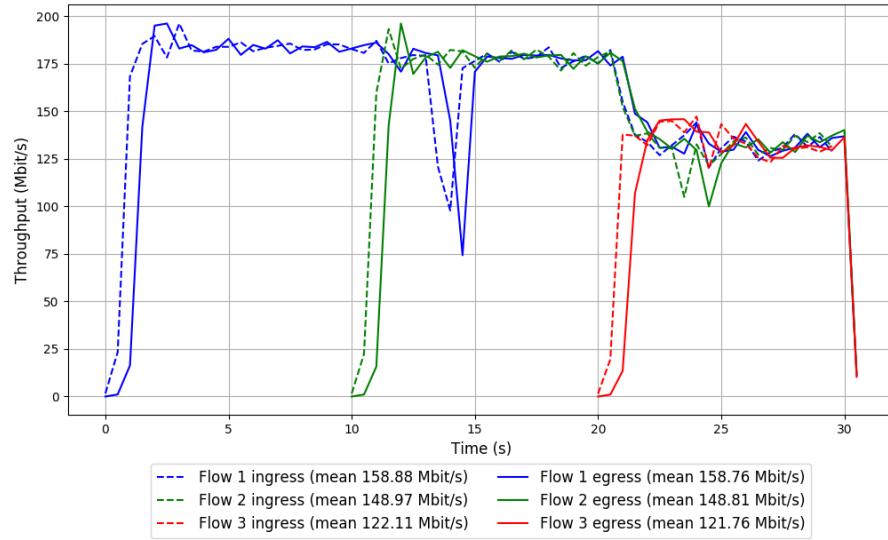
-- Flow 3:

Average throughput: 121.76 Mbit/s

95th percentile per-packet one-way delay: 121.075 ms

Loss rate: 0.29%

Run 10: Report of TCP BBR — Data Link

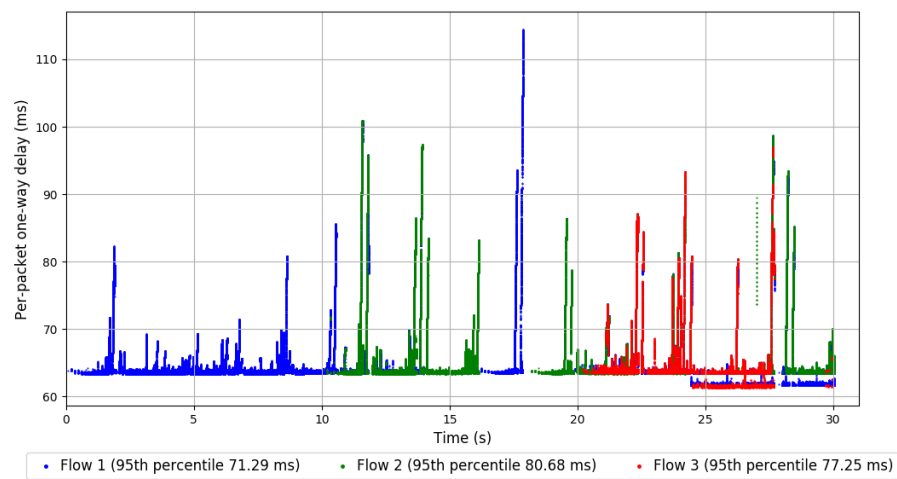
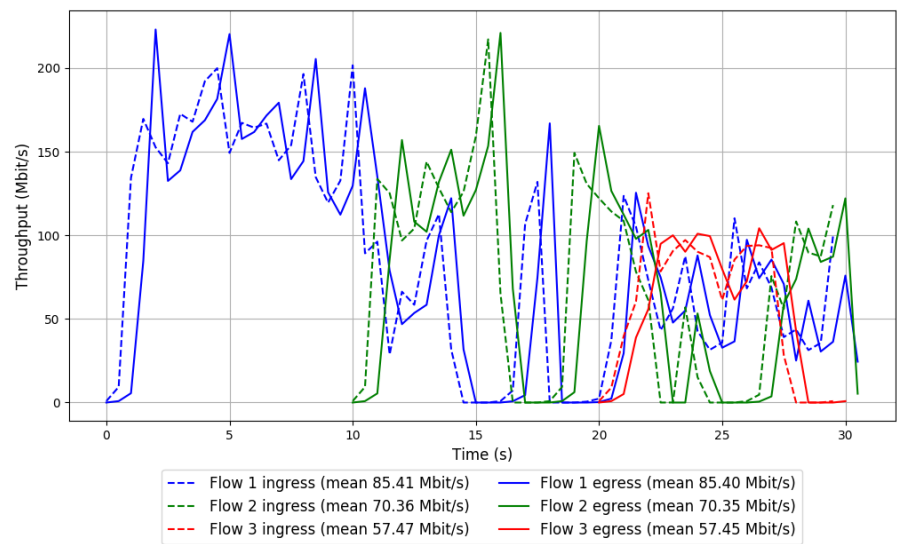


Run 1: Statistics of Copa

Start at: 2018-06-06 06:27:36
End at: 2018-06-06 06:28:06
Local clock offset: -0.098 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-06-06 10:22:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.17 Mbit/s
95th percentile per-packet one-way delay: 76.152 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 71.293 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 70.35 Mbit/s
95th percentile per-packet one-way delay: 80.678 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 77.245 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

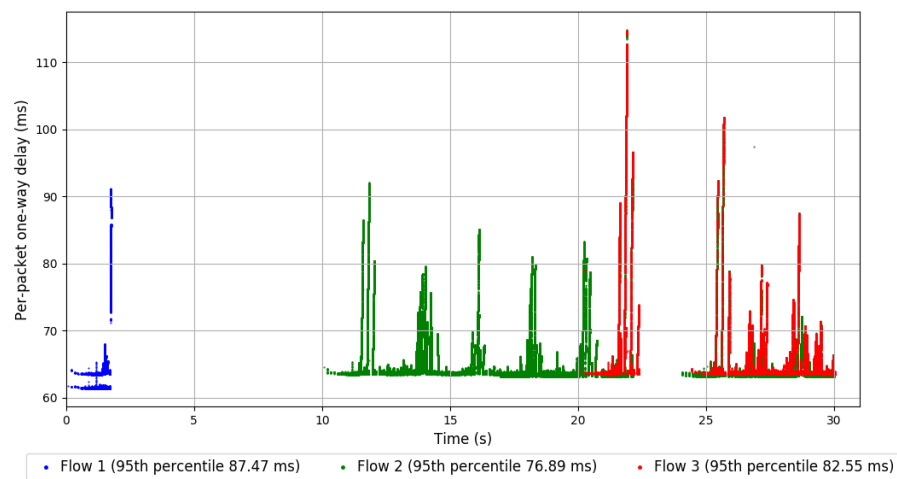
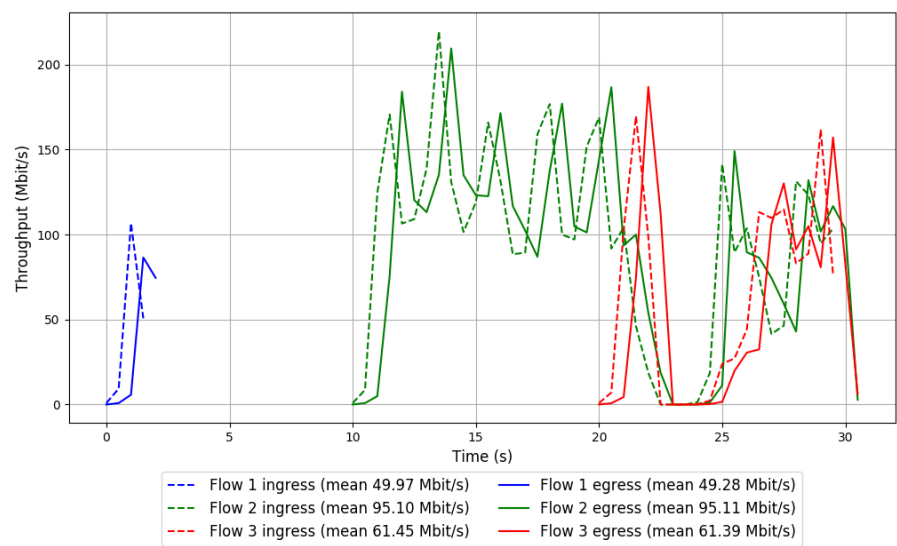


Run 2: Statistics of Copa

Start at: 2018-06-06 06:50:04
End at: 2018-06-06 06:50:34
Local clock offset: -0.109 ms
Remote clock offset: -0.412 ms

Below is generated by plot.py at 2018-06-06 10:22:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 77.879 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 49.28 Mbit/s
95th percentile per-packet one-way delay: 87.470 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 76.888 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.39 Mbit/s
95th percentile per-packet one-way delay: 82.549 ms
Loss rate: 0.18%

Run 2: Report of Copa — Data Link

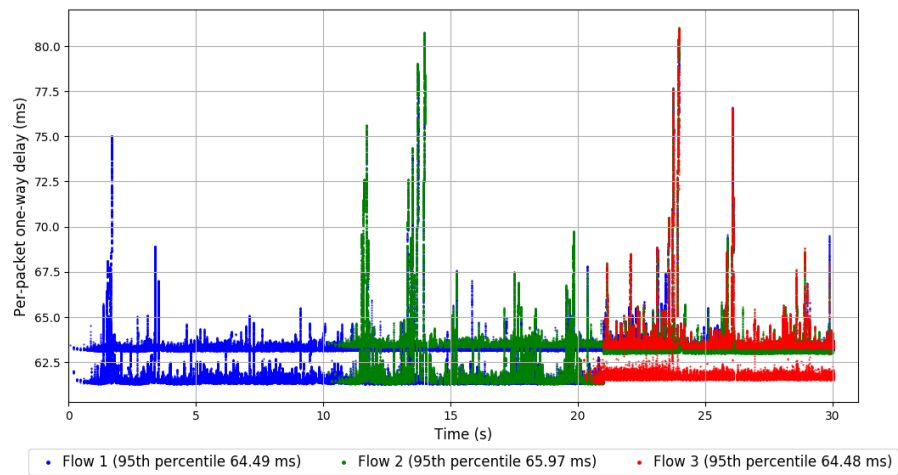
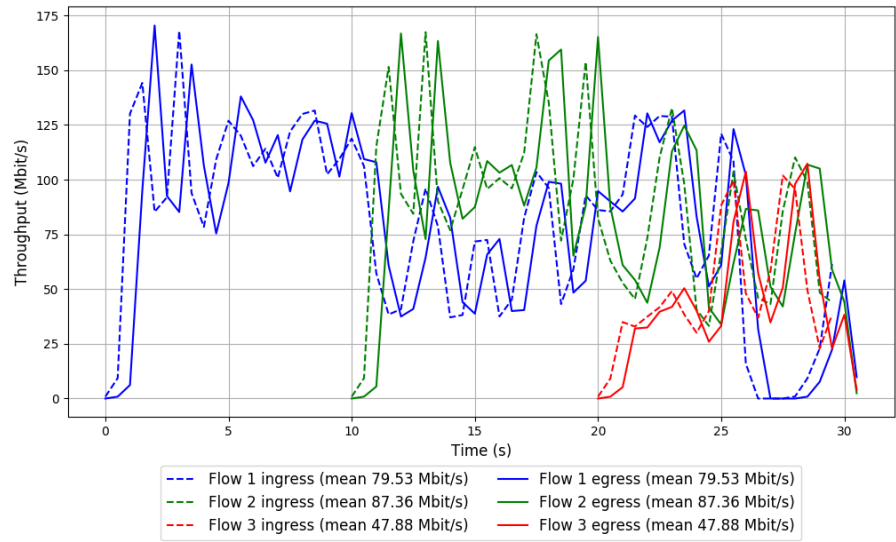


Run 3: Statistics of Copa

Start at: 2018-06-06 07:12:30
End at: 2018-06-06 07:13:00
Local clock offset: -0.027 ms
Remote clock offset: -0.542 ms

Below is generated by plot.py at 2018-06-06 10:22:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 153.52 Mbit/s
95th percentile per-packet one-way delay: 64.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.53 Mbit/s
95th percentile per-packet one-way delay: 64.488 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 65.973 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 47.88 Mbit/s
95th percentile per-packet one-way delay: 64.481 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

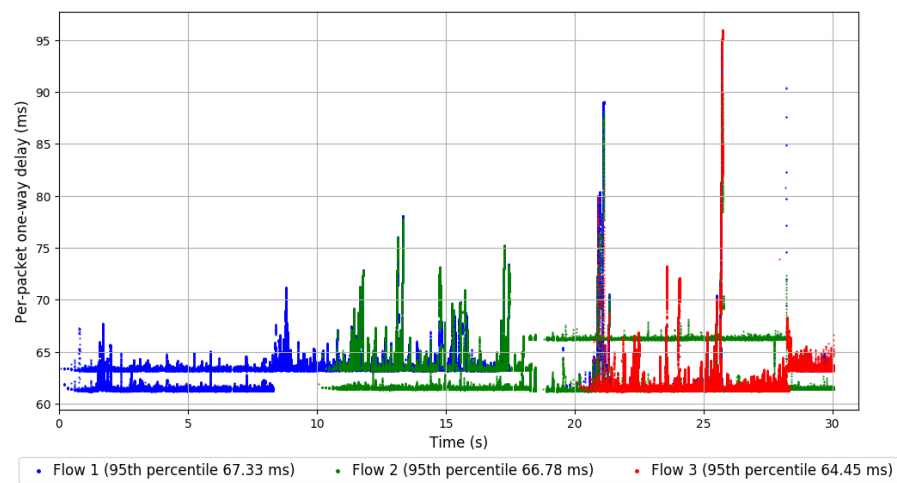
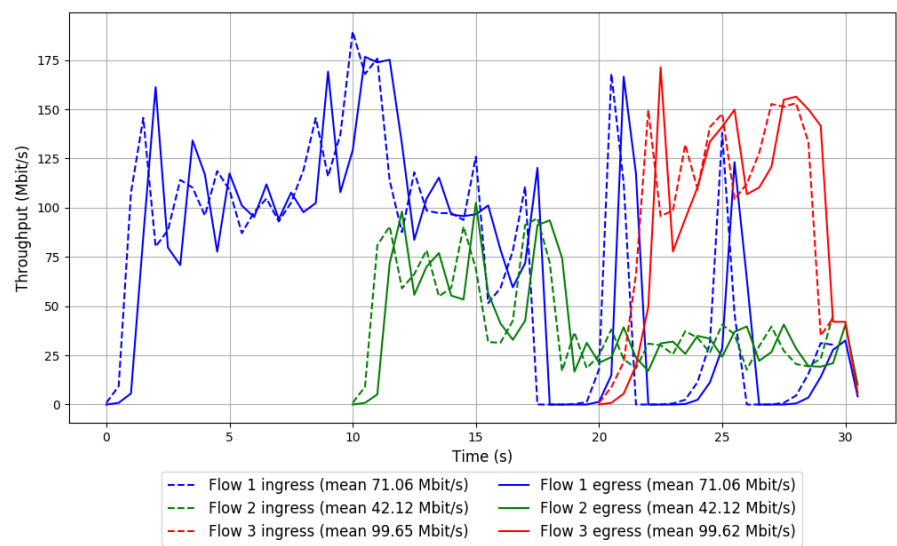


Run 4: Statistics of Copa

Start at: 2018-06-06 07:34:52
End at: 2018-06-06 07:35:22
Local clock offset: 0.004 ms
Remote clock offset: -0.669 ms

Below is generated by plot.py at 2018-06-06 10:22:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 132.21 Mbit/s
95th percentile per-packet one-way delay: 66.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.06 Mbit/s
95th percentile per-packet one-way delay: 67.333 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 42.12 Mbit/s
95th percentile per-packet one-way delay: 66.784 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 99.62 Mbit/s
95th percentile per-packet one-way delay: 64.453 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

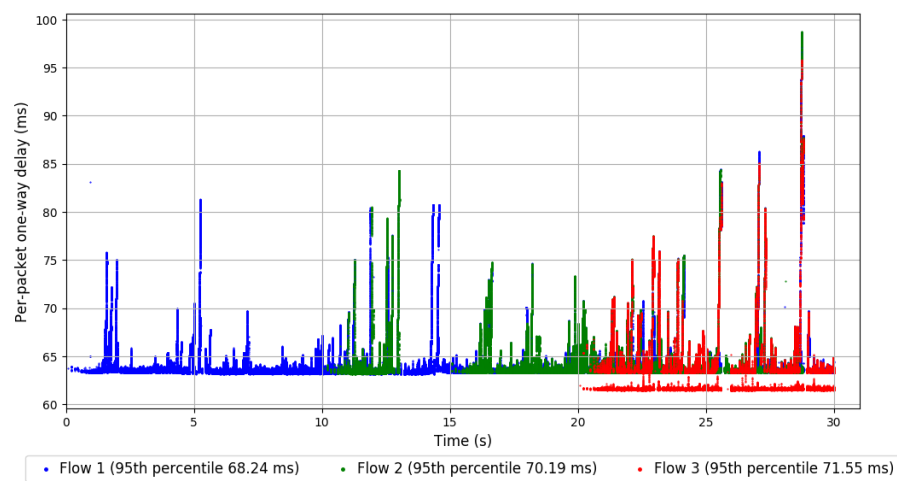
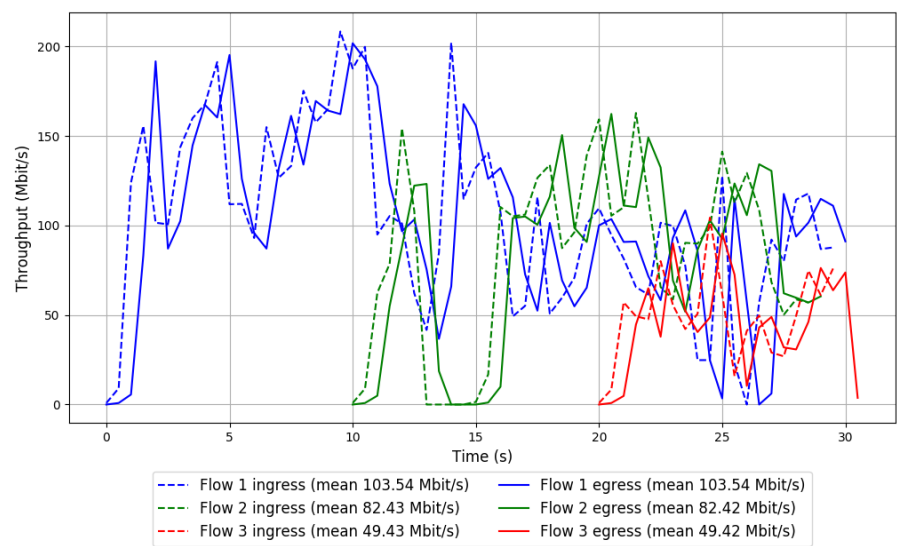


Run 5: Statistics of Copa

Start at: 2018-06-06 07:57:06
End at: 2018-06-06 07:57:36
Local clock offset: -0.045 ms
Remote clock offset: -0.189 ms

```
# Below is generated by plot.py at 2018-06-06 10:23:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 171.95 Mbit/s
95th percentile per-packet one-way delay: 69.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.54 Mbit/s
95th percentile per-packet one-way delay: 68.242 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 82.42 Mbit/s
95th percentile per-packet one-way delay: 70.190 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.42 Mbit/s
95th percentile per-packet one-way delay: 71.547 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-06 08:19:31

End at: 2018-06-06 08:20:01

Local clock offset: -0.094 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-06 10:23:14

Datalink statistics

-- Total of 3 flows:

Average throughput: 138.73 Mbit/s

95th percentile per-packet one-way delay: 69.611 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 78.82 Mbit/s

95th percentile per-packet one-way delay: 66.689 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.67 Mbit/s

95th percentile per-packet one-way delay: 74.337 ms

Loss rate: 0.00%

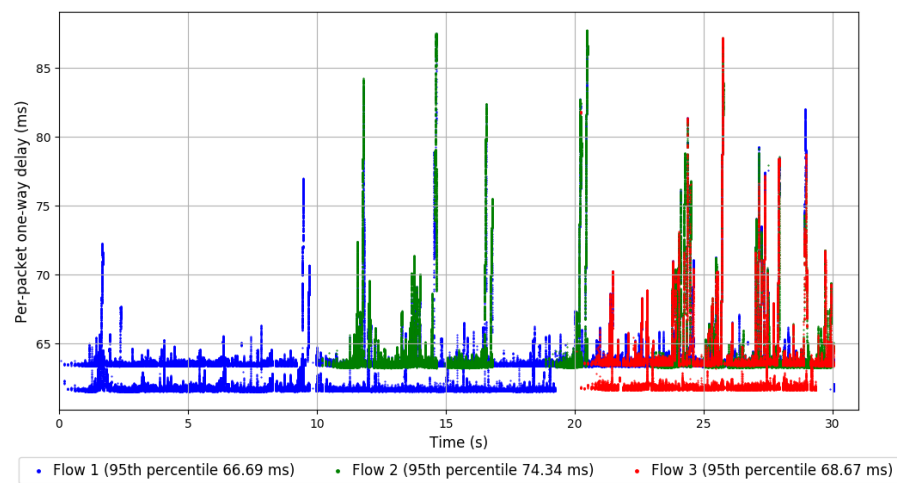
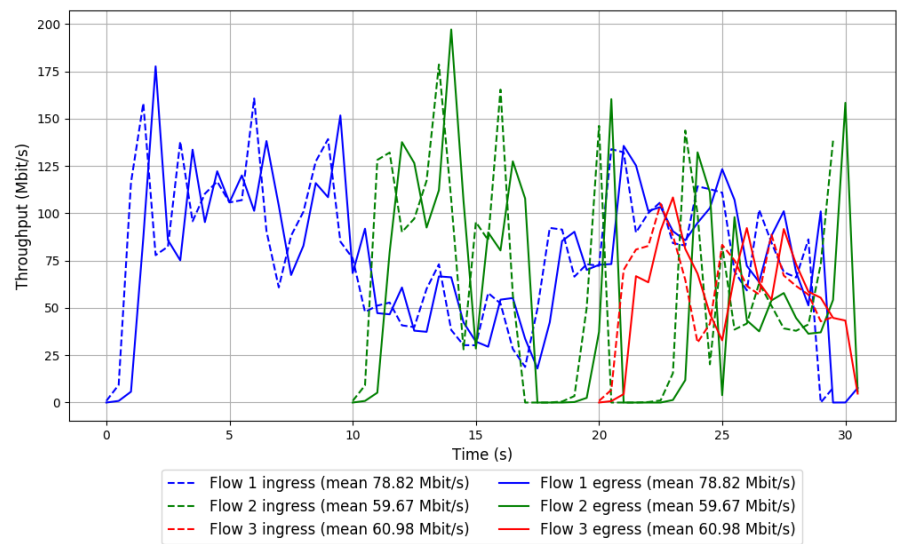
-- Flow 3:

Average throughput: 60.98 Mbit/s

95th percentile per-packet one-way delay: 68.667 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

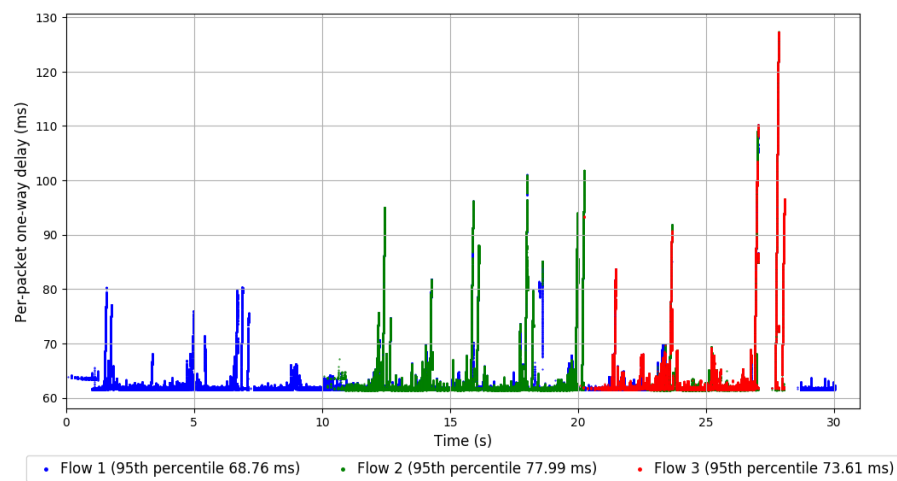
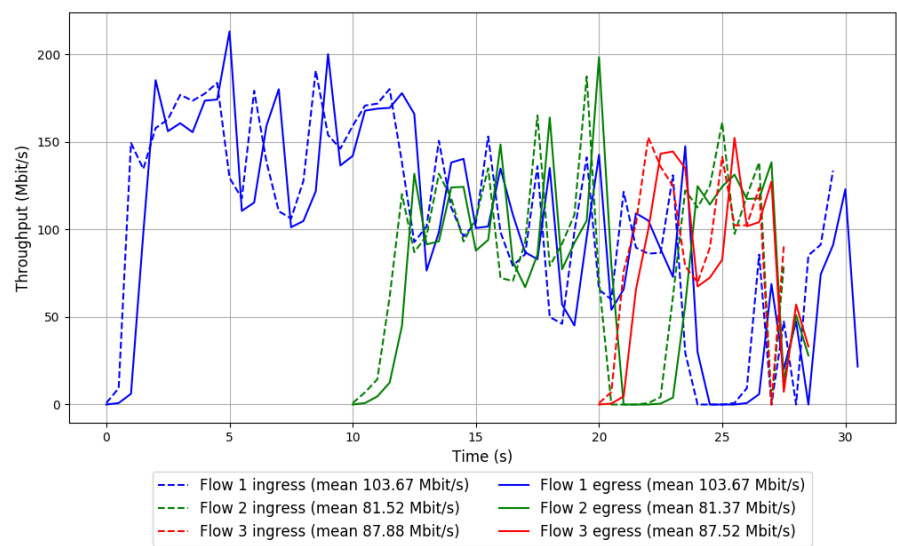


Run 7: Statistics of Copa

Start at: 2018-06-06 08:42:00
End at: 2018-06-06 08:42:30
Local clock offset: -0.035 ms
Remote clock offset: 0.189 ms

Below is generated by plot.py at 2018-06-06 10:26:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 175.88 Mbit/s
95th percentile per-packet one-way delay: 71.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.67 Mbit/s
95th percentile per-packet one-way delay: 68.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 77.994 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.52 Mbit/s
95th percentile per-packet one-way delay: 73.614 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-06 09:04:27

End at: 2018-06-06 09:04:58

Local clock offset: -0.093 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-06-06 10:26:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 134.68 Mbit/s

95th percentile per-packet one-way delay: 72.398 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 86.56 Mbit/s

95th percentile per-packet one-way delay: 69.408 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 47.19 Mbit/s

95th percentile per-packet one-way delay: 80.727 ms

Loss rate: 0.00%

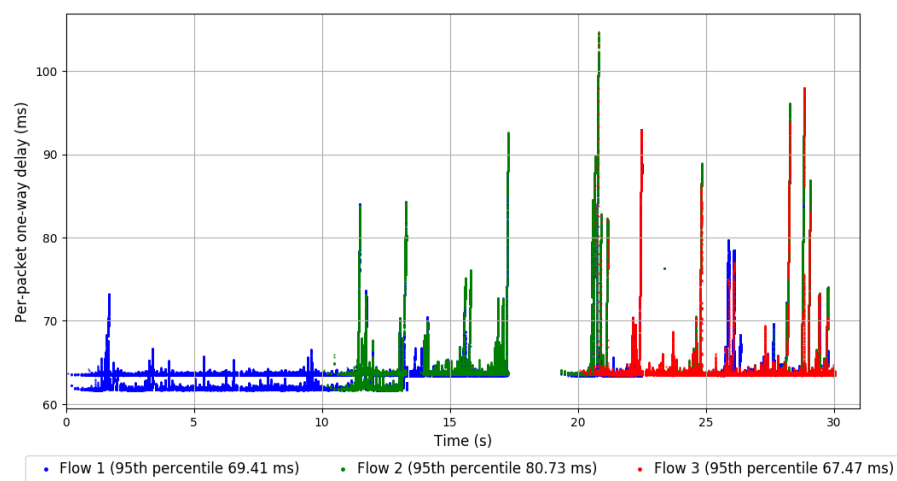
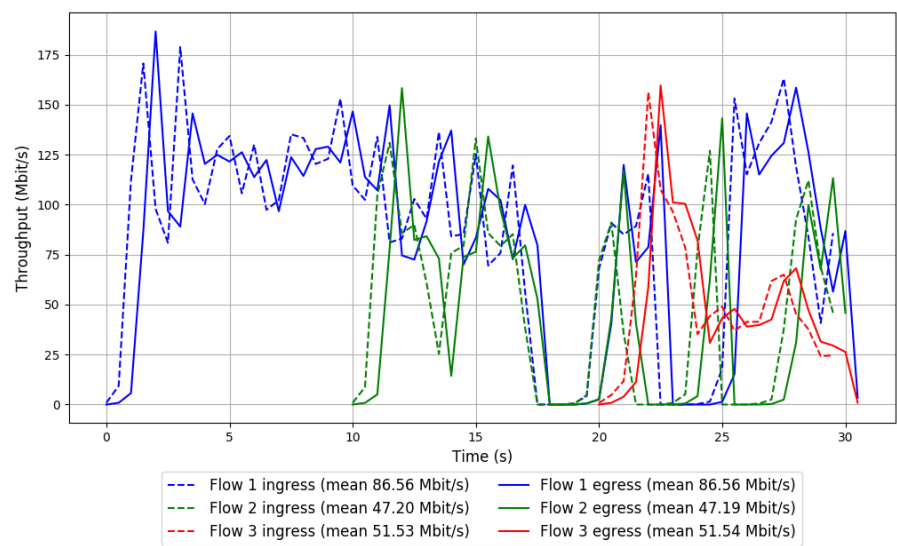
-- Flow 3:

Average throughput: 51.54 Mbit/s

95th percentile per-packet one-way delay: 67.466 ms

Loss rate: 0.01%

Run 8: Report of Copa — Data Link

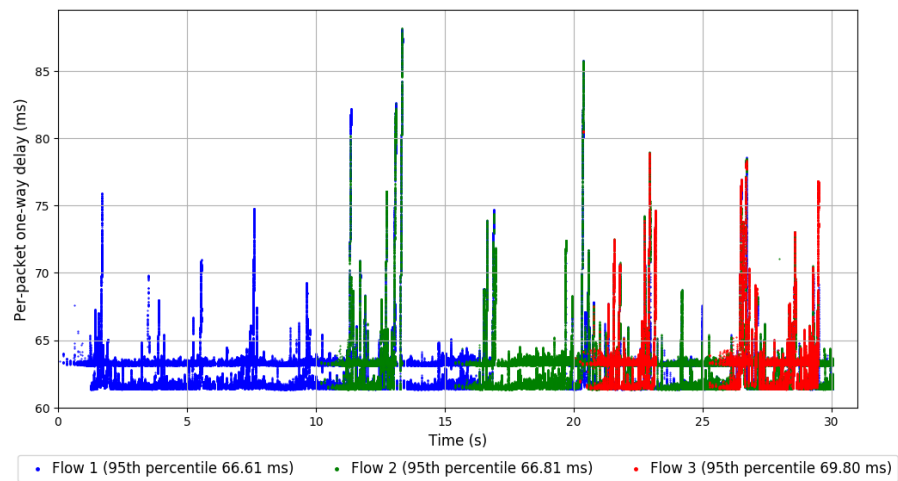
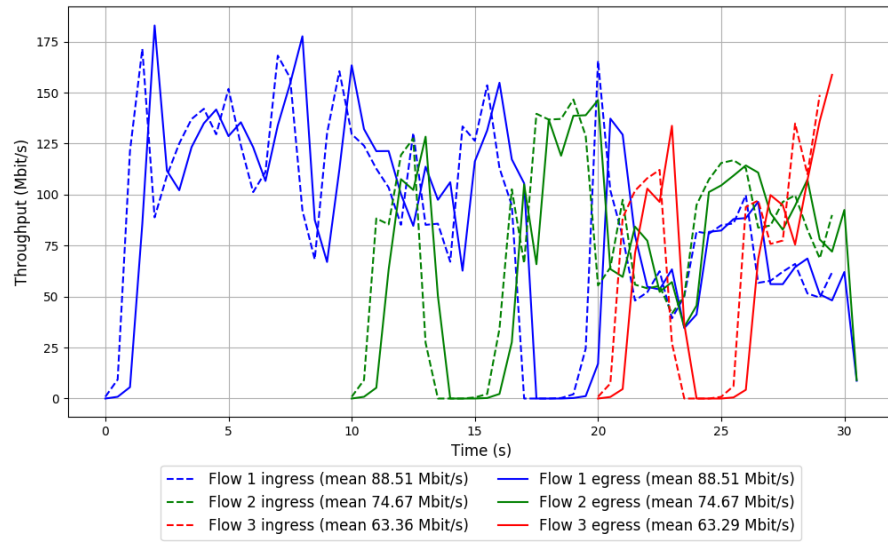


Run 9: Statistics of Copa

Start at: 2018-06-06 09:26:50
End at: 2018-06-06 09:27:20
Local clock offset: -0.127 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-06-06 10:27:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 158.06 Mbit/s
95th percentile per-packet one-way delay: 67.230 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.51 Mbit/s
95th percentile per-packet one-way delay: 66.611 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 74.67 Mbit/s
95th percentile per-packet one-way delay: 66.808 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.29 Mbit/s
95th percentile per-packet one-way delay: 69.796 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

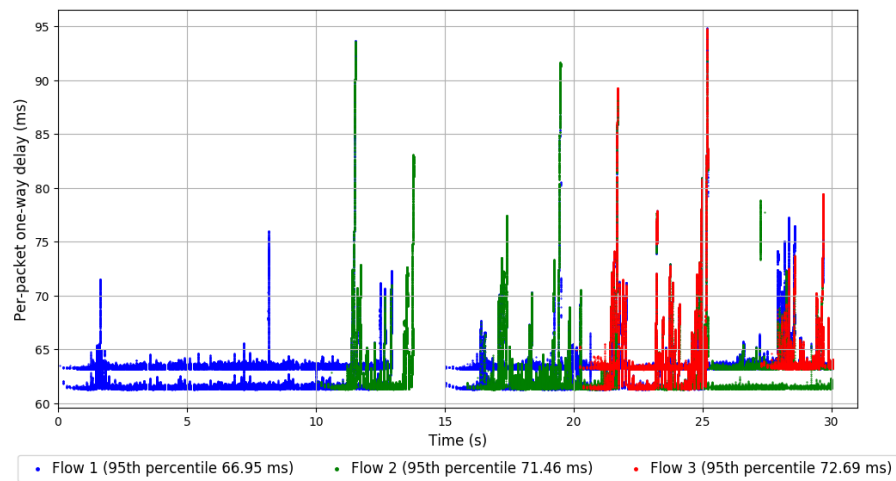
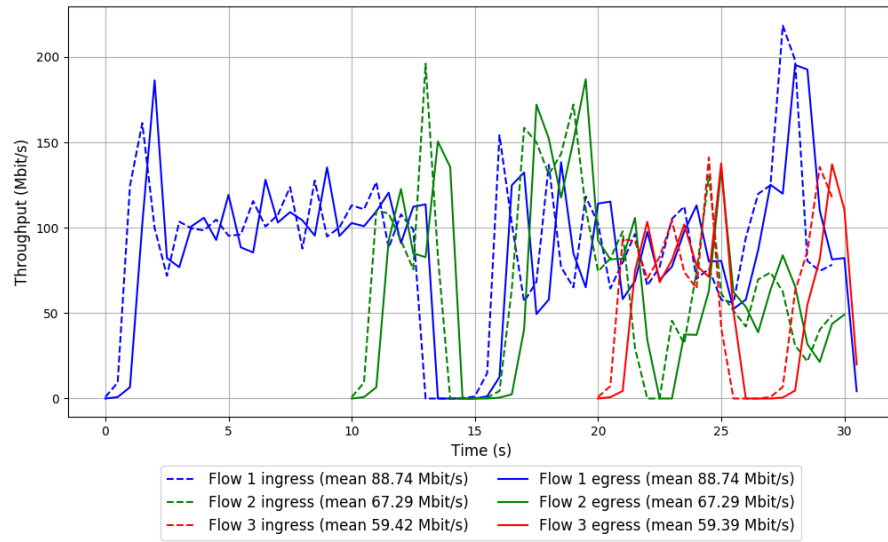


Run 10: Statistics of Copa

Start at: 2018-06-06 09:49:26
End at: 2018-06-06 09:49:56
Local clock offset: -0.11 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-06-06 10:27:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 153.12 Mbit/s
95th percentile per-packet one-way delay: 69.531 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 88.74 Mbit/s
95th percentile per-packet one-way delay: 66.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.29 Mbit/s
95th percentile per-packet one-way delay: 71.460 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.39 Mbit/s
95th percentile per-packet one-way delay: 72.695 ms
Loss rate: 0.08%

Run 10: Report of Copa — Data Link

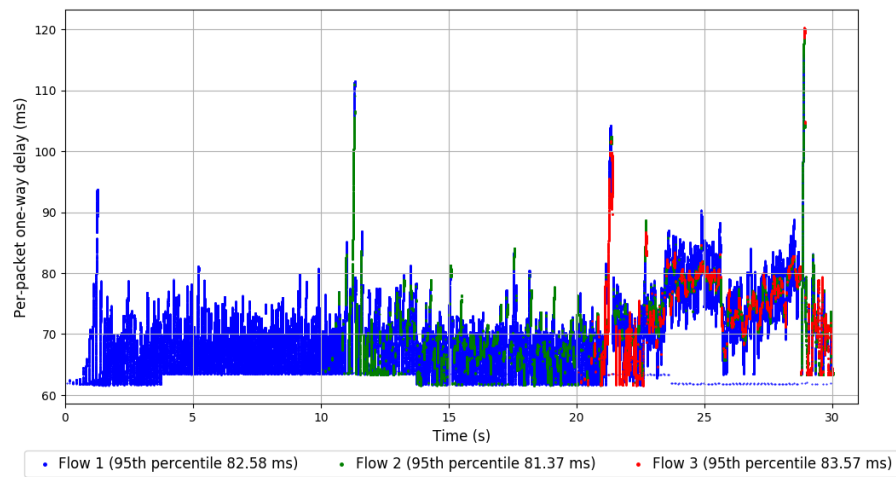
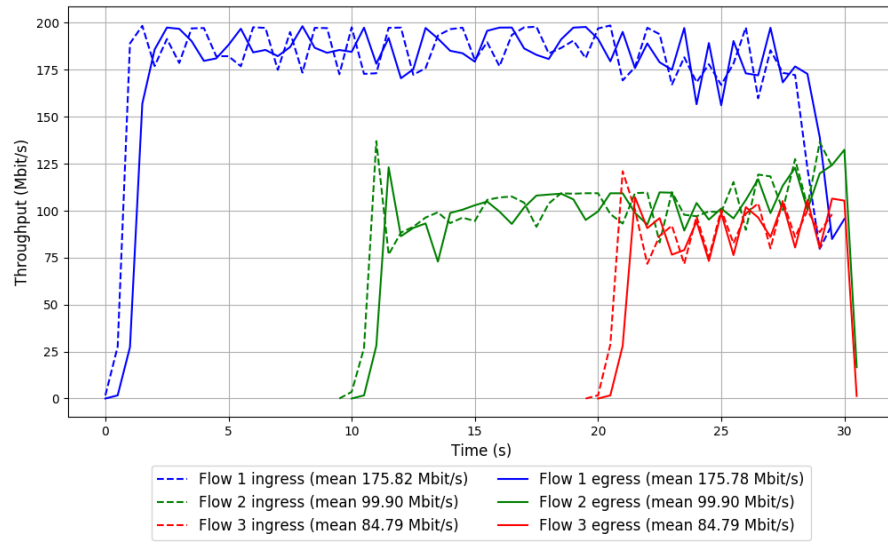


Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 06:22:17
End at: 2018-06-06 06:22:47
Local clock offset: -0.091 ms
Remote clock offset: -0.325 ms

Below is generated by plot.py at 2018-06-06 10:27:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 270.21 Mbit/s
95th percentile per-packet one-way delay: 82.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 175.78 Mbit/s
95th percentile per-packet one-way delay: 82.584 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 99.90 Mbit/s
95th percentile per-packet one-way delay: 81.372 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.79 Mbit/s
95th percentile per-packet one-way delay: 83.569 ms
Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

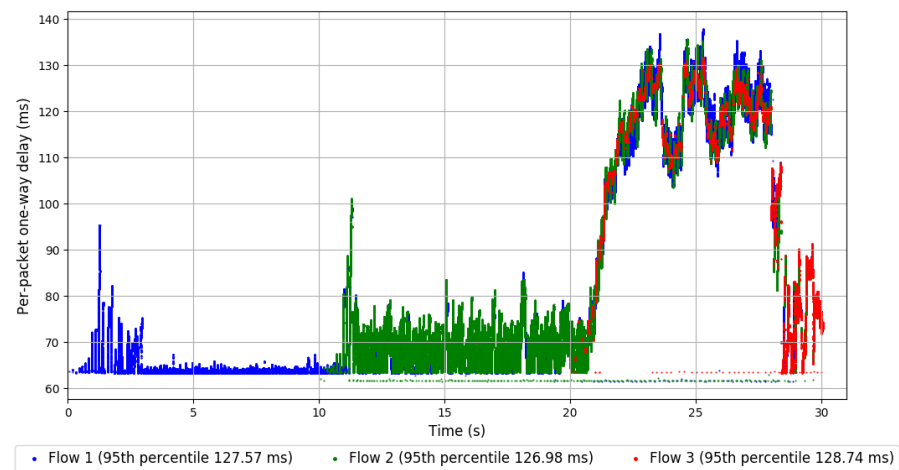
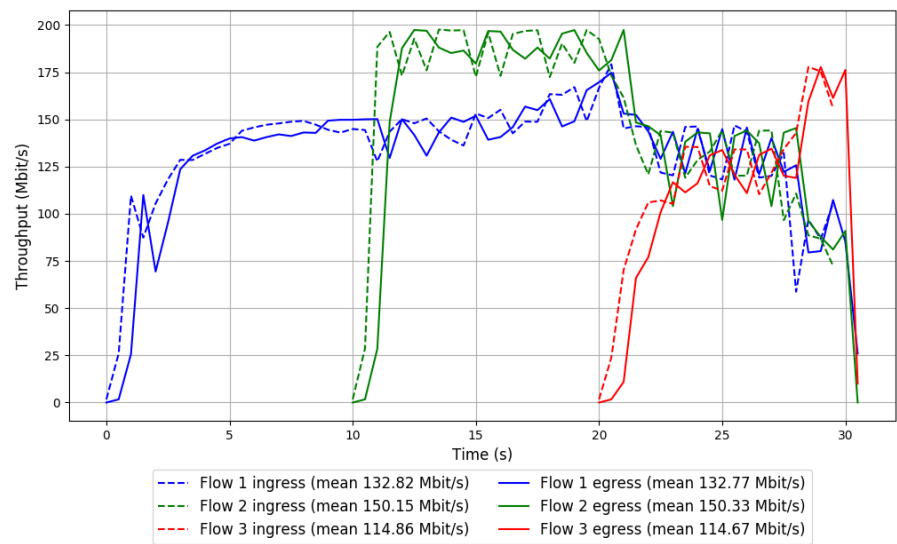


Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 06:44:31
End at: 2018-06-06 06:45:01
Local clock offset: -0.1 ms
Remote clock offset: -0.532 ms

Below is generated by plot.py at 2018-06-06 10:27:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 270.92 Mbit/s
95th percentile per-packet one-way delay: 127.826 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 132.77 Mbit/s
95th percentile per-packet one-way delay: 127.566 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 150.33 Mbit/s
95th percentile per-packet one-way delay: 126.984 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 114.67 Mbit/s
95th percentile per-packet one-way delay: 128.742 ms
Loss rate: 0.14%

Run 2: Report of TCP Cubic — Data Link

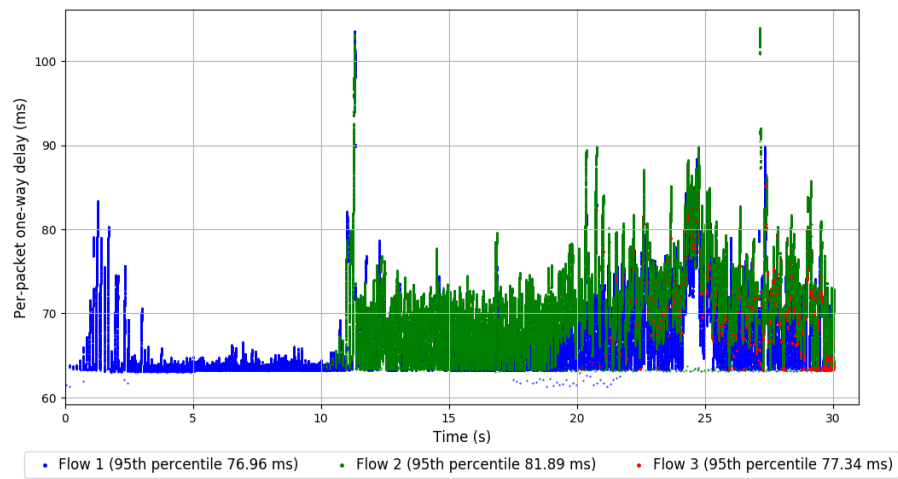
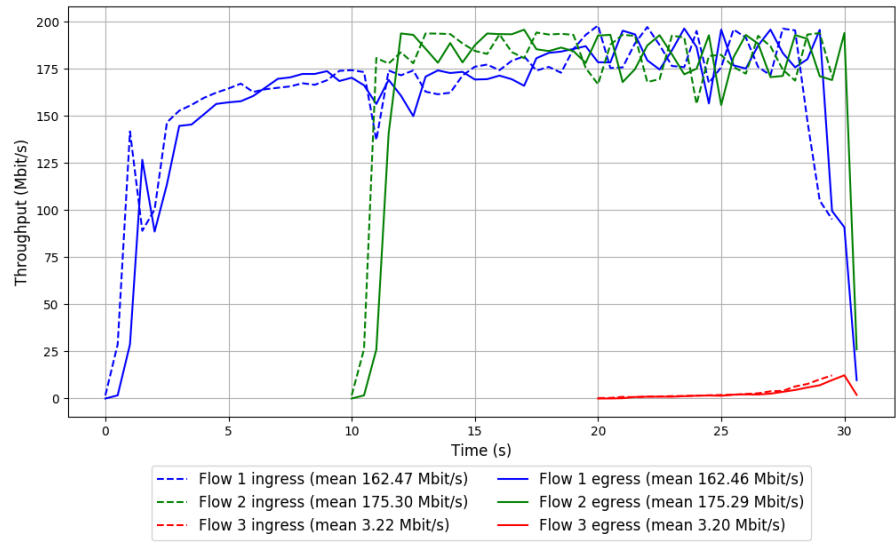


Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 07:06:56
End at: 2018-06-06 07:07:26
Local clock offset: -0.095 ms
Remote clock offset: -0.663 ms

Below is generated by plot.py at 2018-06-06 10:27:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 280.24 Mbit/s
95th percentile per-packet one-way delay: 79.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.46 Mbit/s
95th percentile per-packet one-way delay: 76.959 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 175.29 Mbit/s
95th percentile per-packet one-way delay: 81.892 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.20 Mbit/s
95th percentile per-packet one-way delay: 77.340 ms
Loss rate: 0.37%

Run 3: Report of TCP Cubic — Data Link

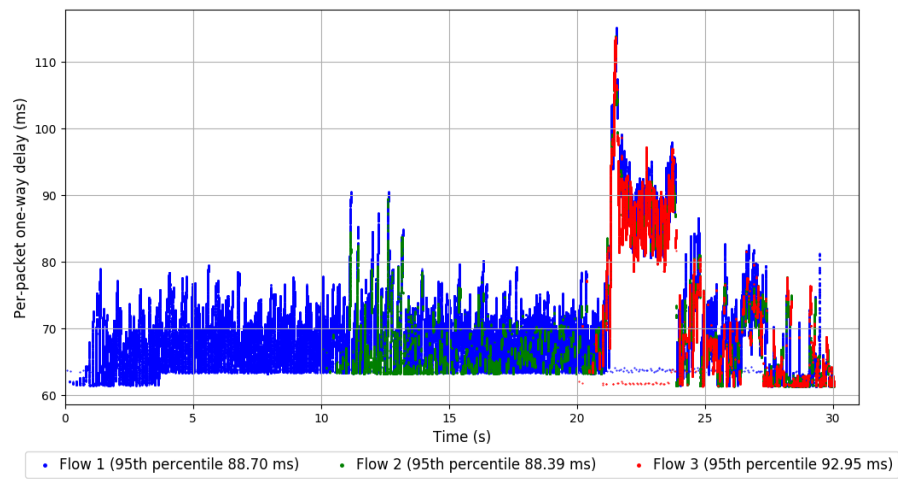
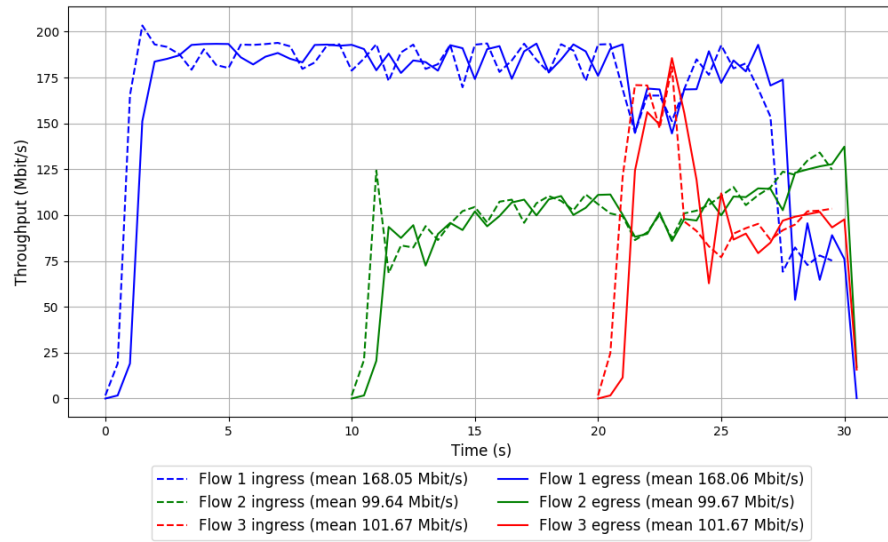


Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 07:29:27
End at: 2018-06-06 07:29:57
Local clock offset: 0.002 ms
Remote clock offset: -0.537 ms

Below is generated by plot.py at 2018-06-06 10:28:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 268.09 Mbit/s
95th percentile per-packet one-way delay: 89.949 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.06 Mbit/s
95th percentile per-packet one-way delay: 88.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 99.67 Mbit/s
95th percentile per-packet one-way delay: 88.388 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 101.67 Mbit/s
95th percentile per-packet one-way delay: 92.952 ms
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

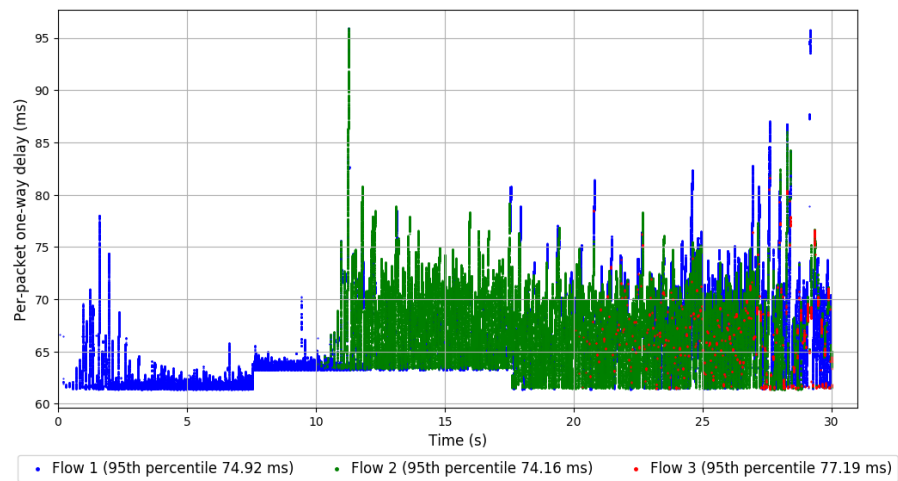
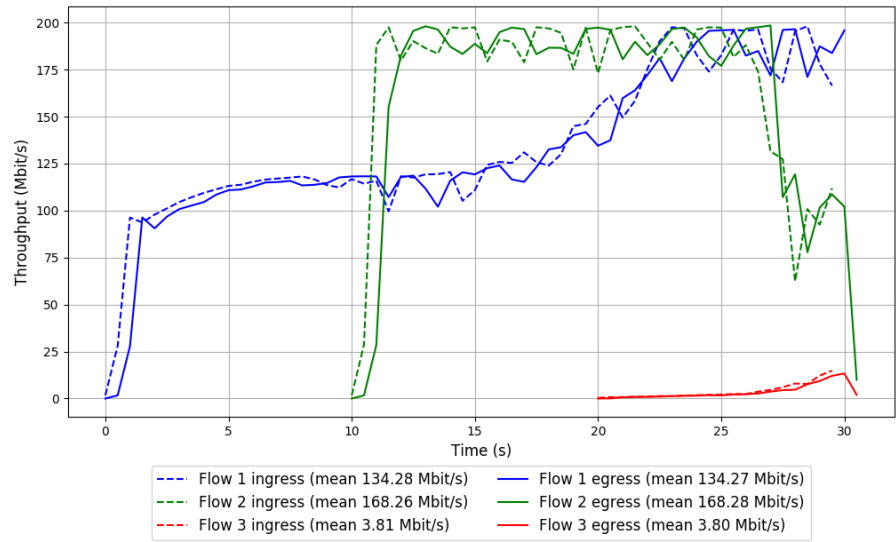


Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 07:51:43
End at: 2018-06-06 07:52:13
Local clock offset: -0.038 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-06-06 10:30:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 247.38 Mbit/s
95th percentile per-packet one-way delay: 74.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.27 Mbit/s
95th percentile per-packet one-way delay: 74.922 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 168.28 Mbit/s
95th percentile per-packet one-way delay: 74.155 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 77.188 ms
Loss rate: 0.28%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 08:14:03

End at: 2018-06-06 08:14:33

Local clock offset: -0.042 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-06 10:30:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 189.50 Mbit/s

95th percentile per-packet one-way delay: 71.334 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 123.41 Mbit/s

95th percentile per-packet one-way delay: 71.494 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 97.27 Mbit/s

95th percentile per-packet one-way delay: 70.794 ms

Loss rate: 0.03%

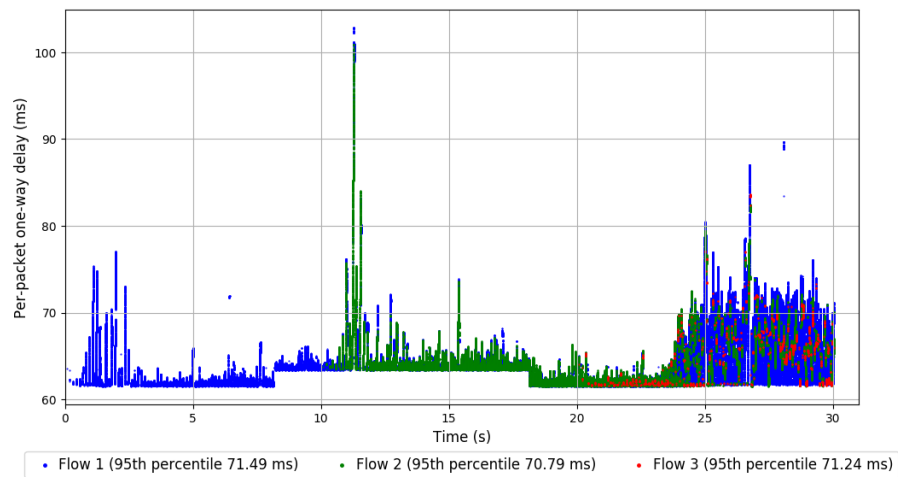
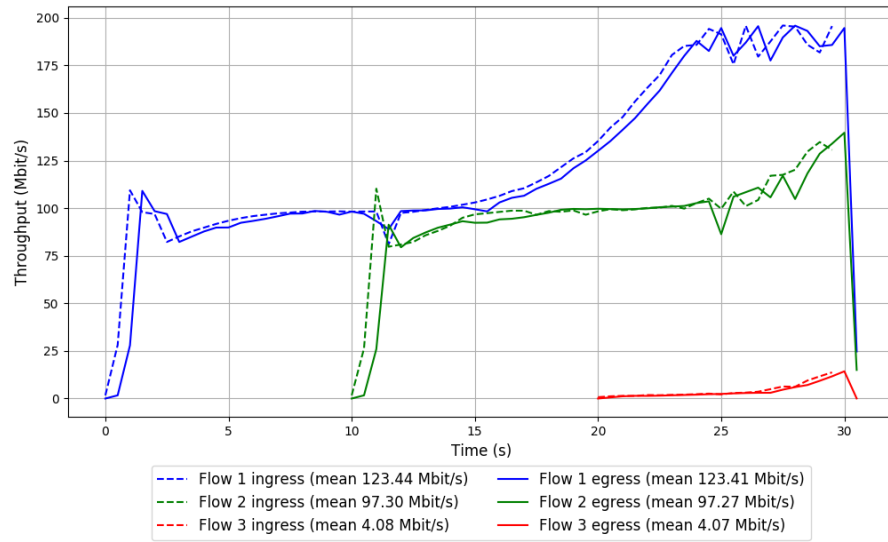
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 71.243 ms

Loss rate: 0.15%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 08:36:30

End at: 2018-06-06 08:37:00

Local clock offset: -0.018 ms

Remote clock offset: 0.331 ms

Below is generated by plot.py at 2018-06-06 10:30:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.84 Mbit/s

95th percentile per-packet one-way delay: 76.427 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 179.93 Mbit/s

95th percentile per-packet one-way delay: 76.605 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 41.56 Mbit/s

95th percentile per-packet one-way delay: 75.068 ms

Loss rate: 0.01%

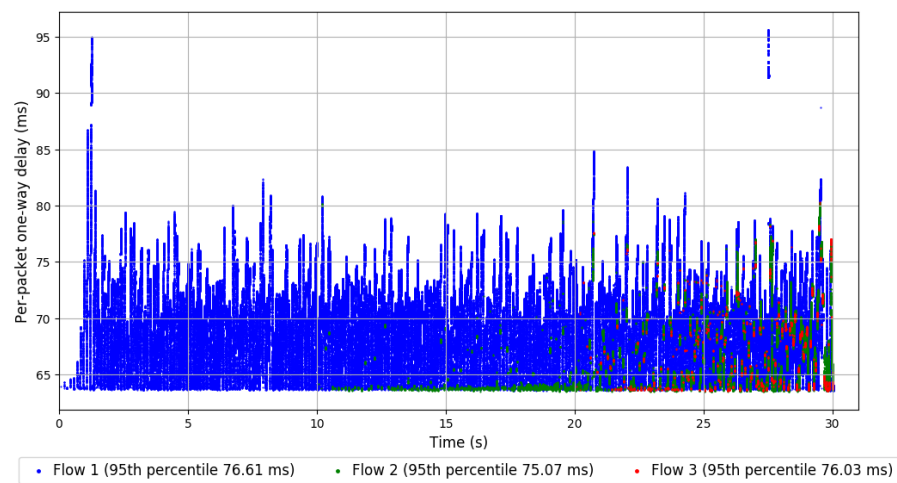
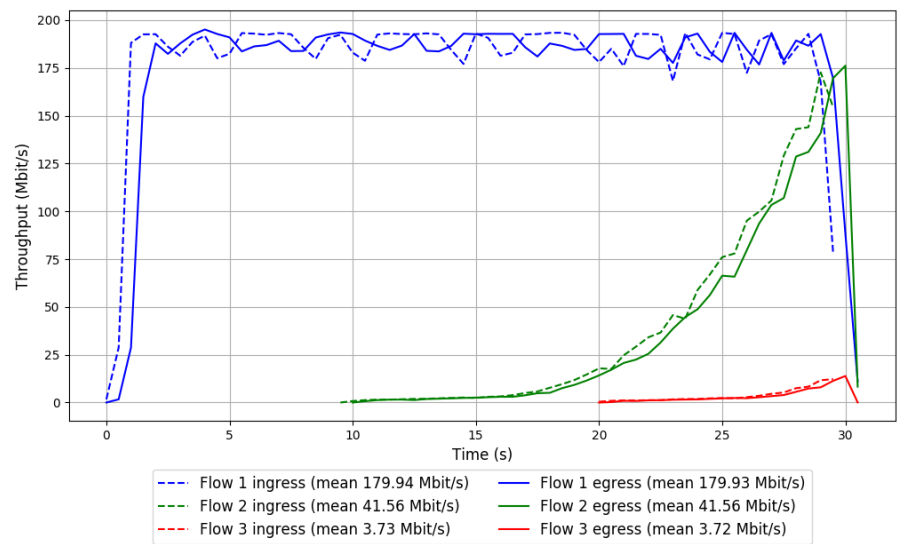
-- Flow 3:

Average throughput: 3.72 Mbit/s

95th percentile per-packet one-way delay: 76.034 ms

Loss rate: 0.26%

Run 7: Report of TCP Cubic — Data Link

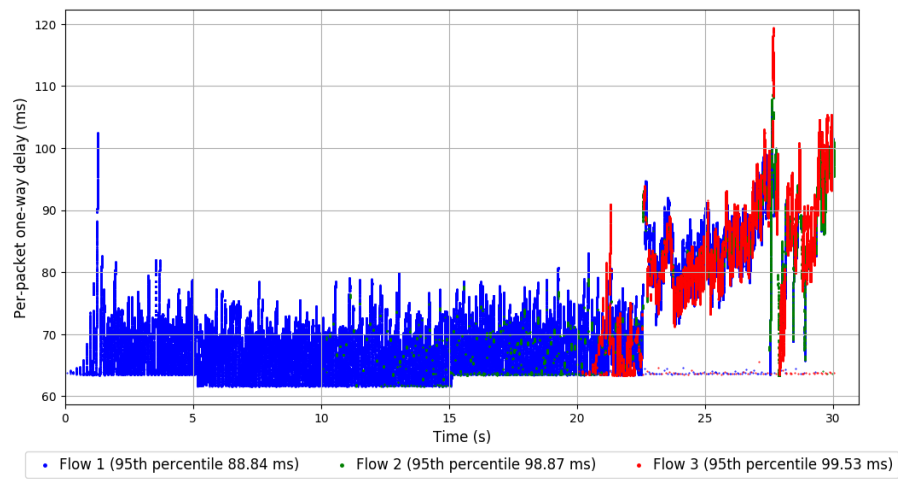
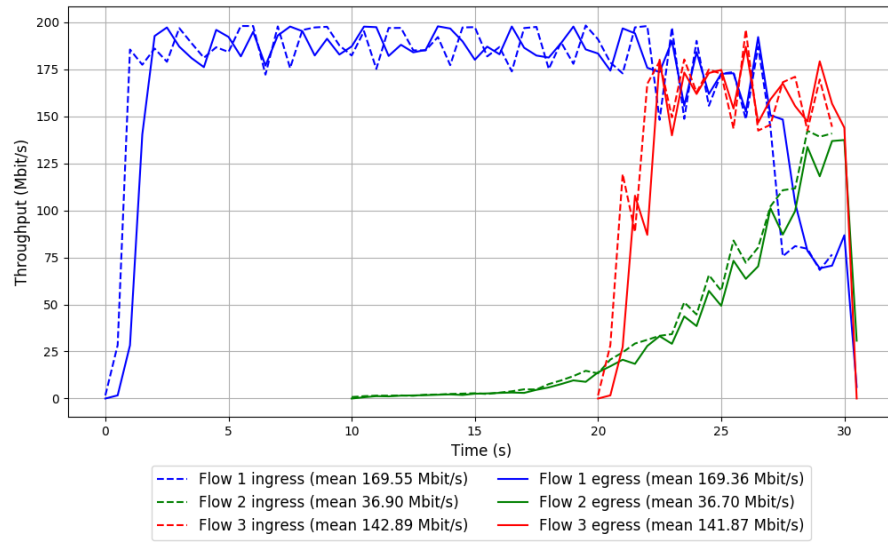


Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 08:58:56
End at: 2018-06-06 08:59:26
Local clock offset: -0.082 ms
Remote clock offset: -0.013 ms

Below is generated by plot.py at 2018-06-06 10:31:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.85 Mbit/s
95th percentile per-packet one-way delay: 94.555 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 169.36 Mbit/s
95th percentile per-packet one-way delay: 88.840 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.70 Mbit/s
95th percentile per-packet one-way delay: 98.874 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 141.87 Mbit/s
95th percentile per-packet one-way delay: 99.527 ms
Loss rate: 0.84%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 09:21:22

End at: 2018-06-06 09:21:52

Local clock offset: -0.118 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-06-06 10:31:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 272.47 Mbit/s

95th percentile per-packet one-way delay: 77.224 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 179.22 Mbit/s

95th percentile per-packet one-way delay: 77.576 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.71 Mbit/s

95th percentile per-packet one-way delay: 75.457 ms

Loss rate: 0.12%

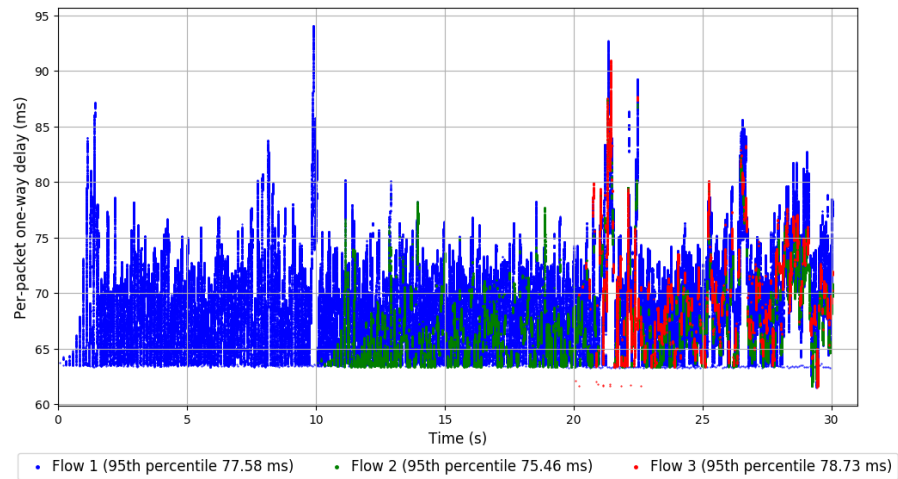
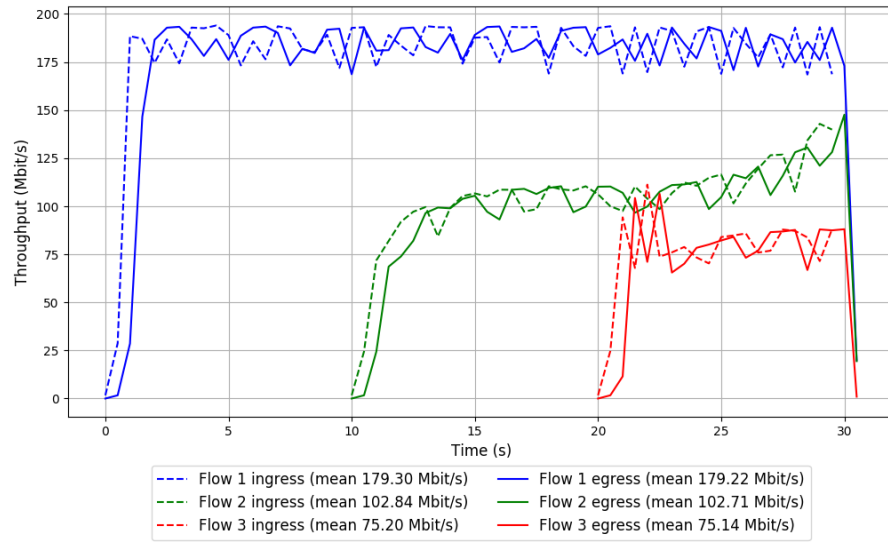
-- Flow 3:

Average throughput: 75.14 Mbit/s

95th percentile per-packet one-way delay: 78.733 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link

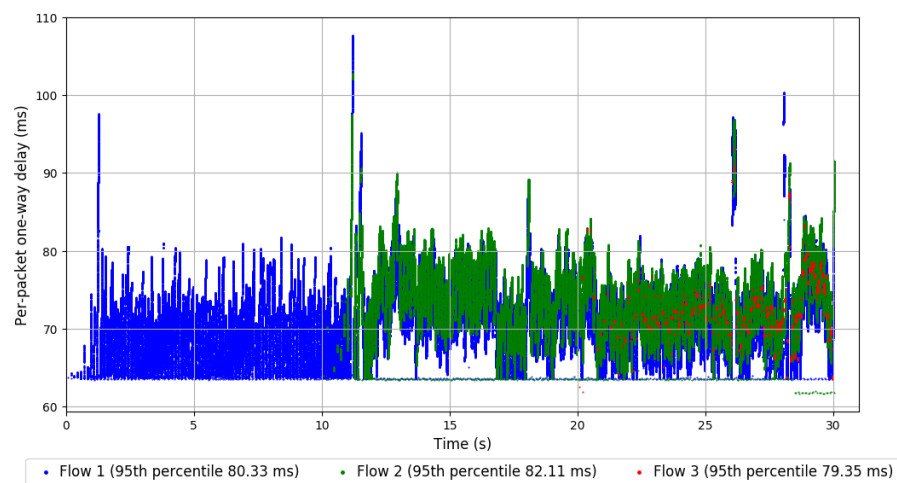
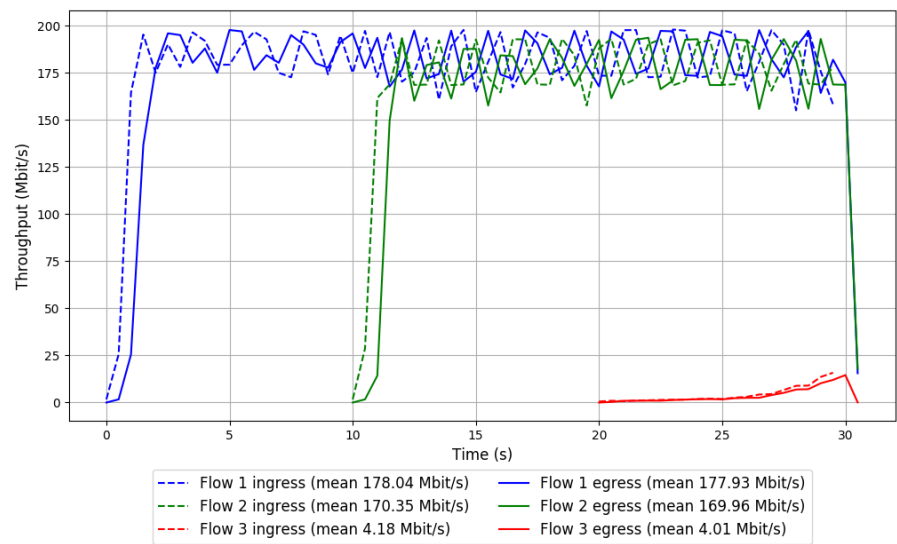


Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 09:43:52
End at: 2018-06-06 09:44:22
Local clock offset: -0.12 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-06 10:32:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 292.34 Mbit/s
95th percentile per-packet one-way delay: 81.210 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 177.93 Mbit/s
95th percentile per-packet one-way delay: 80.331 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 169.96 Mbit/s
95th percentile per-packet one-way delay: 82.106 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 79.353 ms
Loss rate: 4.19%

Run 10: Report of TCP Cubic — Data Link

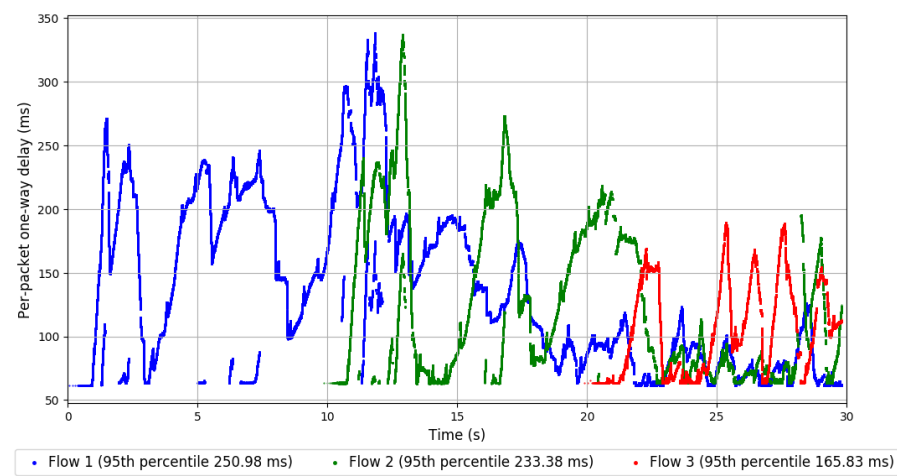
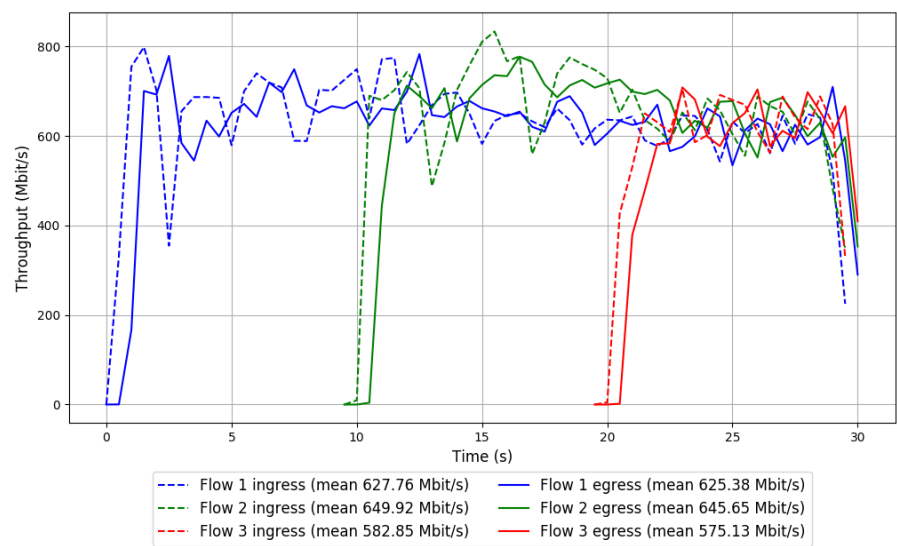


Run 1: Statistics of FillP

Start at: 2018-06-06 06:32:49
End at: 2018-06-06 06:33:19
Local clock offset: -0.109 ms
Remote clock offset: -0.563 ms

Below is generated by plot.py at 2018-06-06 10:53:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 1249.66 Mbit/s
95th percentile per-packet one-way delay: 236.375 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 625.38 Mbit/s
95th percentile per-packet one-way delay: 250.982 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 645.65 Mbit/s
95th percentile per-packet one-way delay: 233.380 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 575.13 Mbit/s
95th percentile per-packet one-way delay: 165.832 ms
Loss rate: 1.34%

Run 1: Report of FillP — Data Link

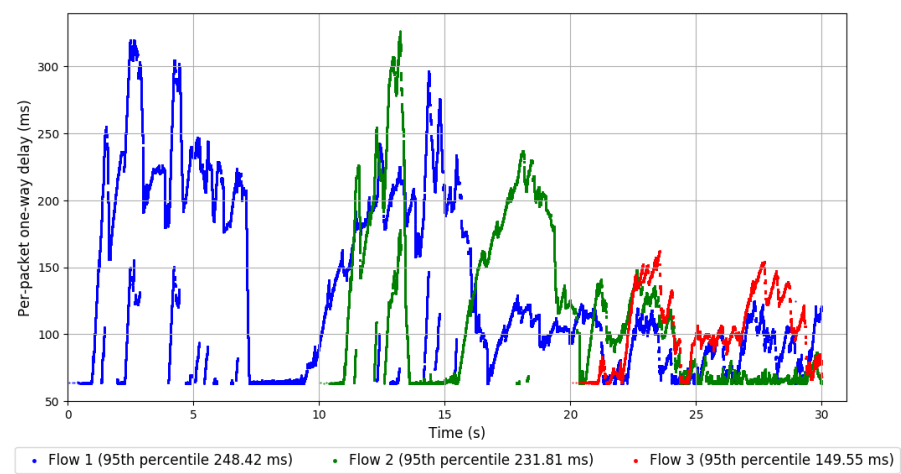
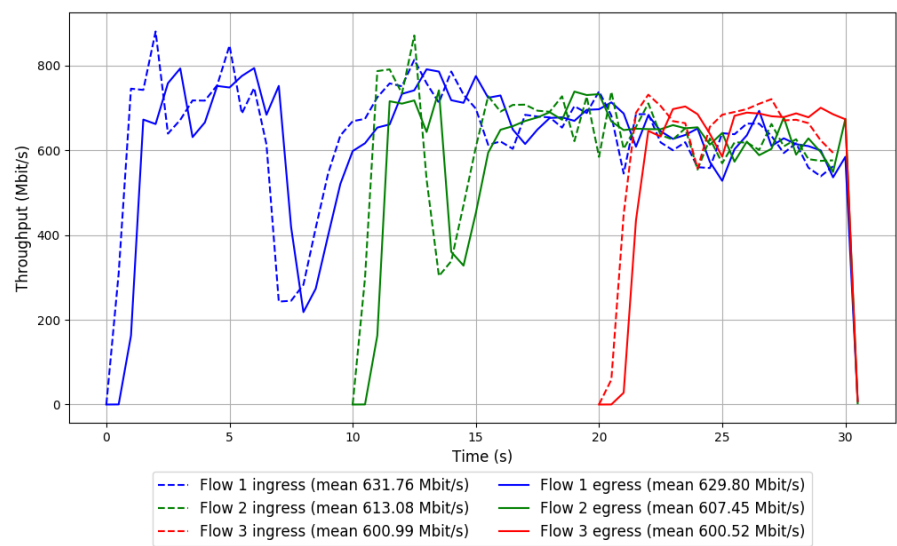


Run 2: Statistics of FillP

Start at: 2018-06-06 06:55:16
End at: 2018-06-06 06:55:46
Local clock offset: -0.076 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2018-06-06 10:53:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 1232.77 Mbit/s
95th percentile per-packet one-way delay: 236.586 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 629.80 Mbit/s
95th percentile per-packet one-way delay: 248.420 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 607.45 Mbit/s
95th percentile per-packet one-way delay: 231.808 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 600.52 Mbit/s
95th percentile per-packet one-way delay: 149.550 ms
Loss rate: 0.04%

Run 2: Report of FillP — Data Link

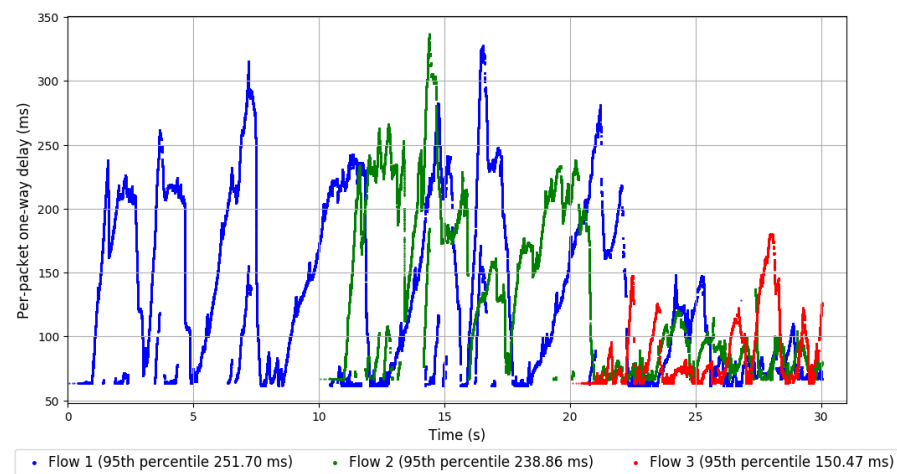
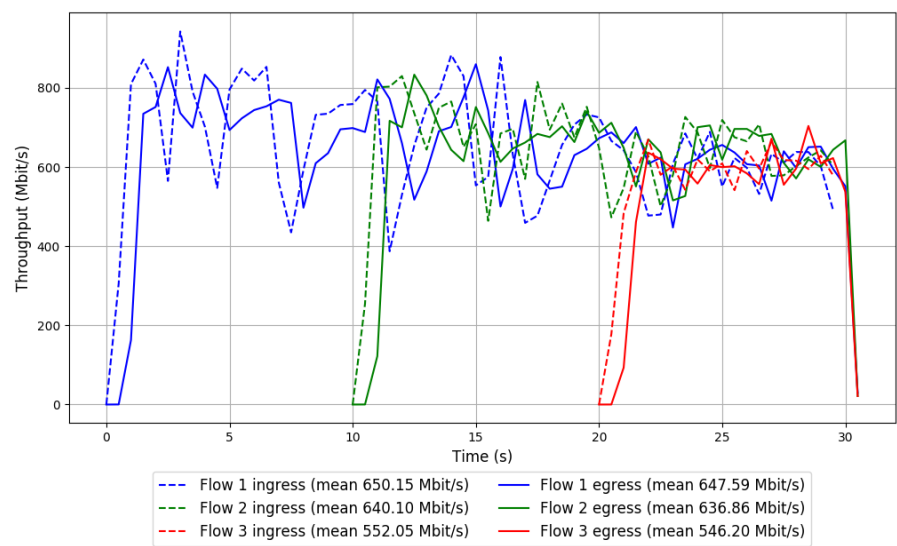


Run 3: Statistics of FillP

Start at: 2018-06-06 07:17:44
End at: 2018-06-06 07:18:14
Local clock offset: -0.01 ms
Remote clock offset: -0.468 ms

Below is generated by plot.py at 2018-06-06 10:55:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 1252.20 Mbit/s
95th percentile per-packet one-way delay: 240.907 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 647.59 Mbit/s
95th percentile per-packet one-way delay: 251.698 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 636.86 Mbit/s
95th percentile per-packet one-way delay: 238.859 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 546.20 Mbit/s
95th percentile per-packet one-way delay: 150.469 ms
Loss rate: 1.06%

Run 3: Report of FillP — Data Link

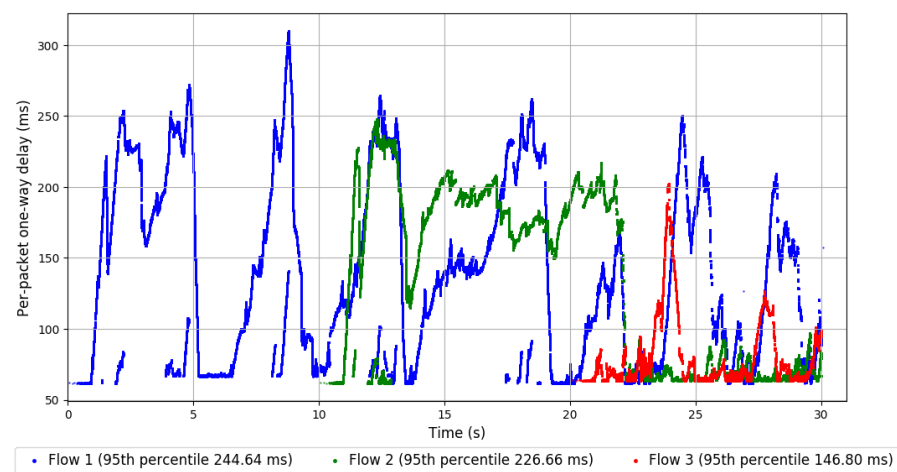
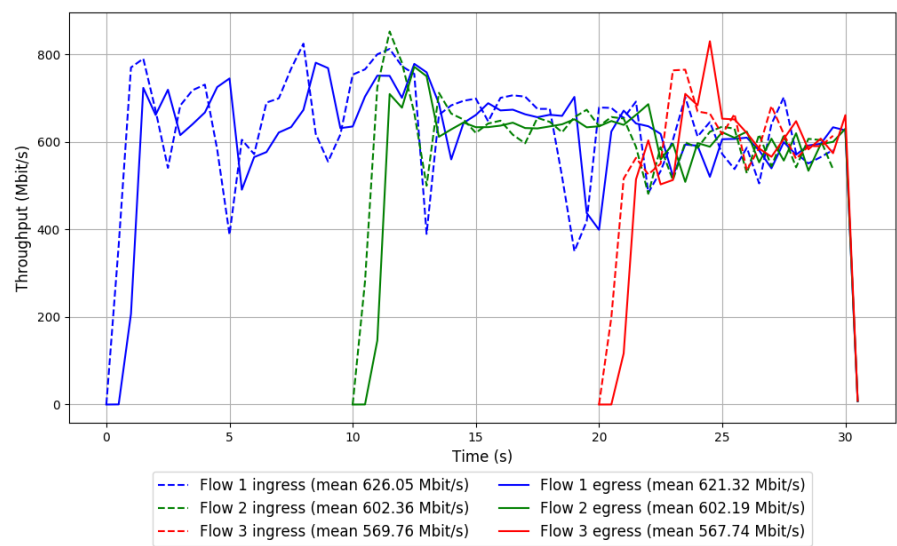


Run 4: Statistics of FillP

Start at: 2018-06-06 07:40:08
End at: 2018-06-06 07:40:38
Local clock offset: -0.004 ms
Remote clock offset: -0.484 ms

Below is generated by plot.py at 2018-06-06 10:55:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 1208.49 Mbit/s
95th percentile per-packet one-way delay: 235.765 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 621.32 Mbit/s
95th percentile per-packet one-way delay: 244.643 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 602.19 Mbit/s
95th percentile per-packet one-way delay: 226.661 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 567.74 Mbit/s
95th percentile per-packet one-way delay: 146.798 ms
Loss rate: 0.33%

Run 4: Report of FillP — Data Link

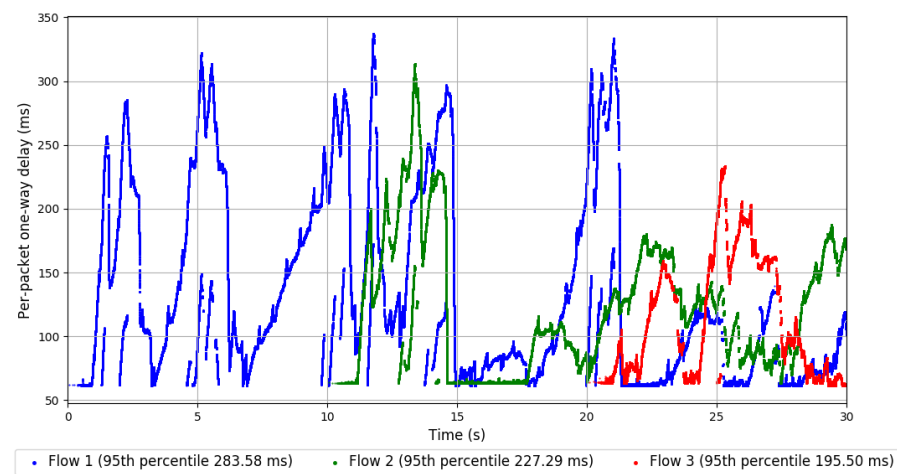
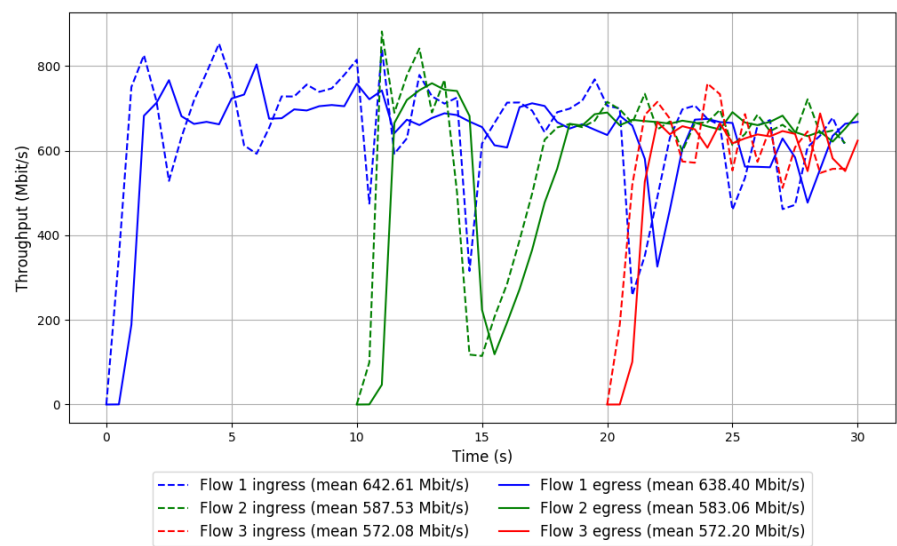


Run 5: Statistics of FillP

Start at: 2018-06-06 08:02:21
End at: 2018-06-06 08:02:51
Local clock offset: -0.096 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-06 10:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 1215.59 Mbit/s
95th percentile per-packet one-way delay: 270.107 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 638.40 Mbit/s
95th percentile per-packet one-way delay: 283.576 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 583.06 Mbit/s
95th percentile per-packet one-way delay: 227.289 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 572.20 Mbit/s
95th percentile per-packet one-way delay: 195.495 ms
Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-06 08:24:45

End at: 2018-06-06 08:25:15

Local clock offset: -0.057 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-06 10:56:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 1153.59 Mbit/s

95th percentile per-packet one-way delay: 265.721 ms

Loss rate: 1.58%

-- Flow 1:

Average throughput: 551.23 Mbit/s

95th percentile per-packet one-way delay: 238.045 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 623.92 Mbit/s

95th percentile per-packet one-way delay: 301.672 ms

Loss rate: 4.22%

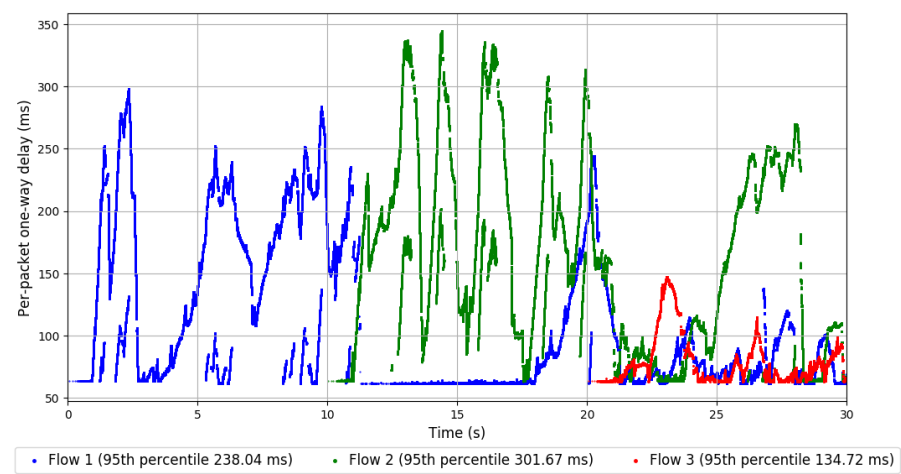
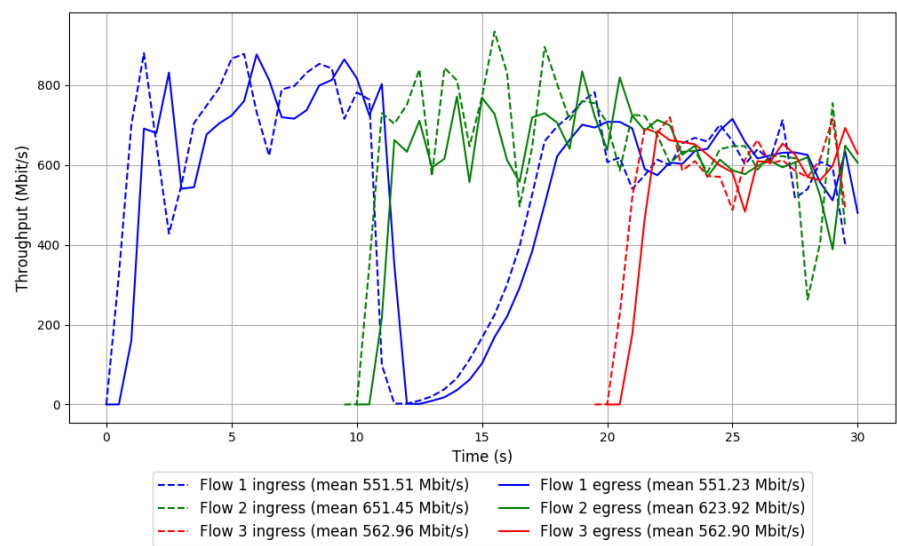
-- Flow 3:

Average throughput: 562.90 Mbit/s

95th percentile per-packet one-way delay: 134.718 ms

Loss rate: 0.00%

Run 6: Report of FillP — Data Link

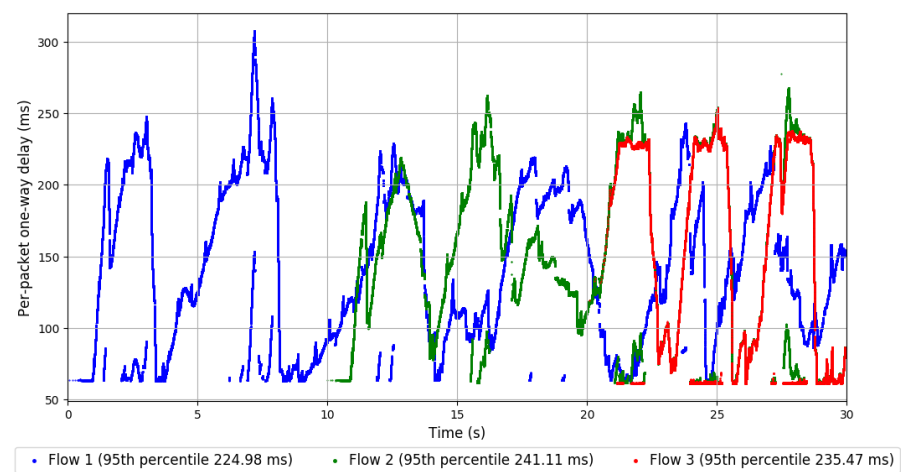
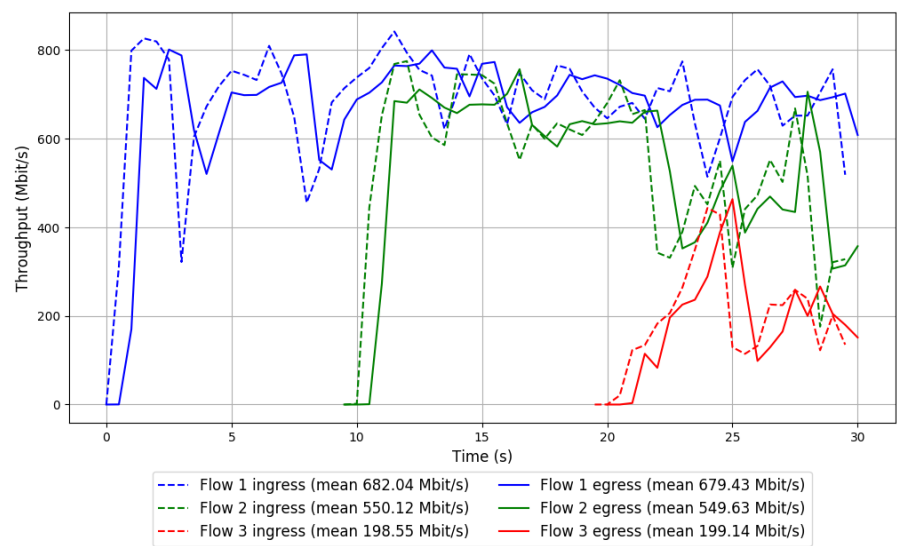


Run 7: Statistics of FillP

Start at: 2018-06-06 08:47:18
End at: 2018-06-06 08:47:48
Local clock offset: -0.006 ms
Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-06 10:56:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 1112.17 Mbit/s
95th percentile per-packet one-way delay: 233.875 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 679.43 Mbit/s
95th percentile per-packet one-way delay: 224.979 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 549.63 Mbit/s
95th percentile per-packet one-way delay: 241.108 ms
Loss rate: 0.10%
-- Flow 3:
Average throughput: 199.14 Mbit/s
95th percentile per-packet one-way delay: 235.475 ms
Loss rate: 0.28%

Run 7: Report of FillP — Data Link

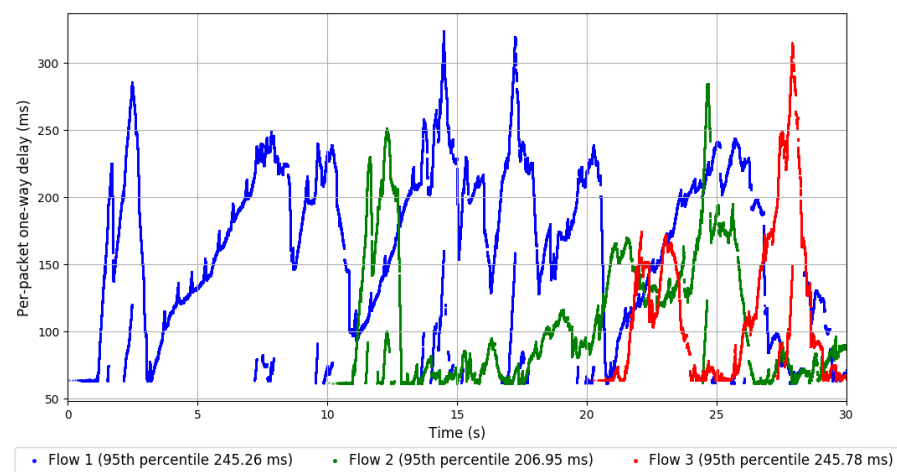
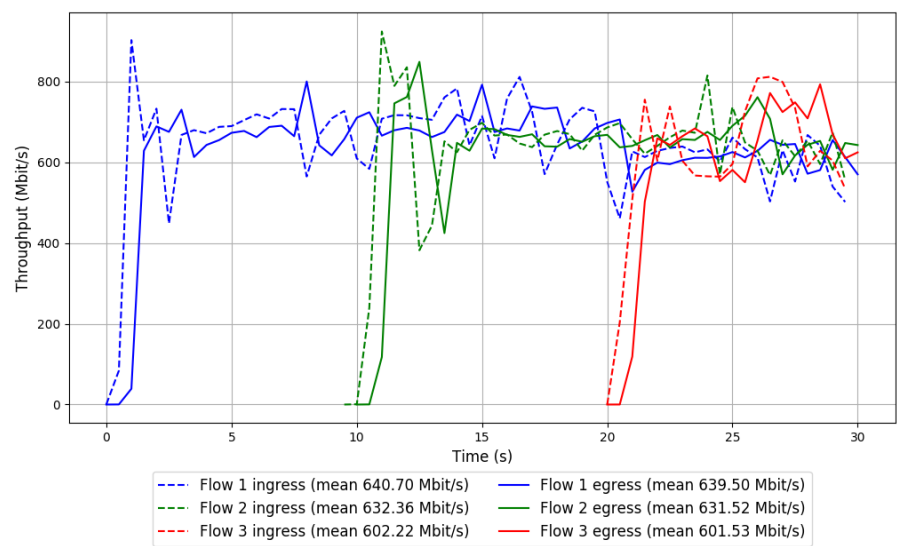


Run 8: Statistics of FillP

Start at: 2018-06-06 09:09:42
End at: 2018-06-06 09:10:12
Local clock offset: -0.139 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2018-06-06 10:59:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 1259.38 Mbit/s
95th percentile per-packet one-way delay: 240.263 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 639.50 Mbit/s
95th percentile per-packet one-way delay: 245.257 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 631.52 Mbit/s
95th percentile per-packet one-way delay: 206.950 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 601.53 Mbit/s
95th percentile per-packet one-way delay: 245.778 ms
Loss rate: 0.14%

Run 8: Report of FillP — Data Link

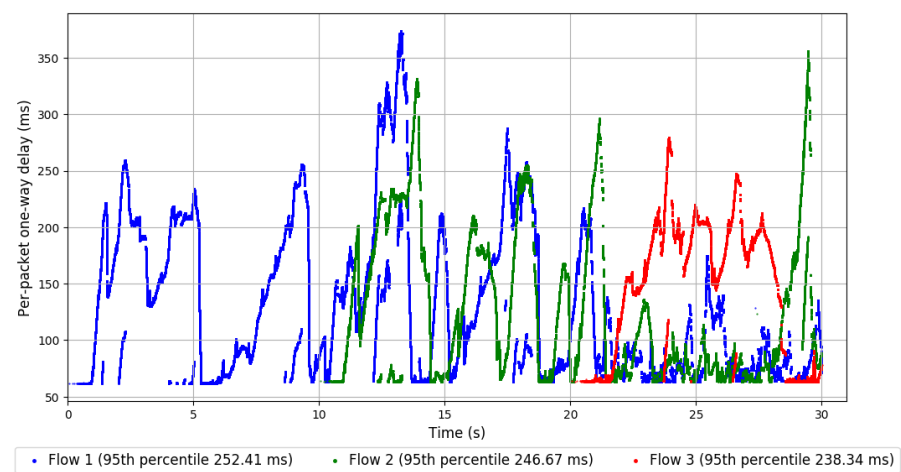
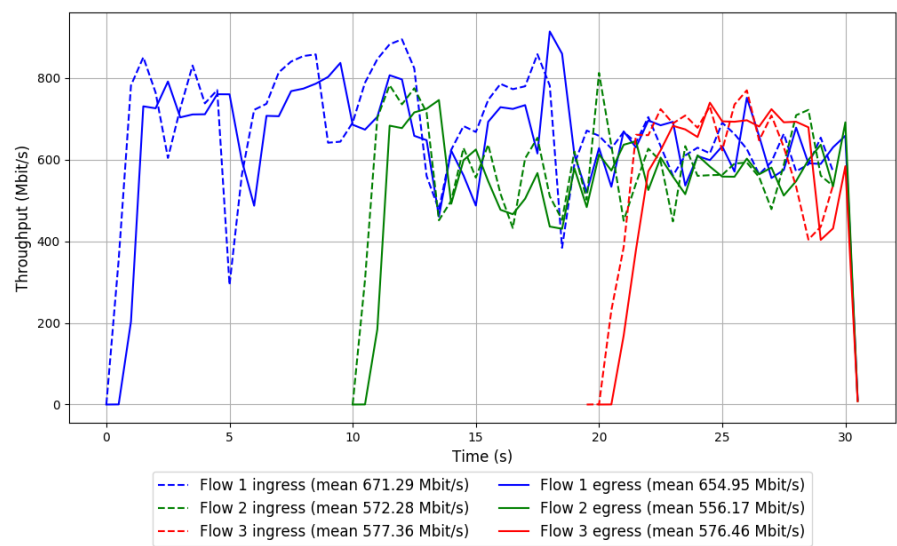


Run 9: Statistics of FillP

Start at: 2018-06-06 09:32:04
End at: 2018-06-06 09:32:34
Local clock offset: -0.115 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-06-06 11:20:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 1216.75 Mbit/s
95th percentile per-packet one-way delay: 247.102 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 654.95 Mbit/s
95th percentile per-packet one-way delay: 252.414 ms
Loss rate: 2.44%
-- Flow 2:
Average throughput: 556.17 Mbit/s
95th percentile per-packet one-way delay: 246.666 ms
Loss rate: 2.82%
-- Flow 3:
Average throughput: 576.46 Mbit/s
95th percentile per-packet one-way delay: 238.342 ms
Loss rate: 0.16%

Run 9: Report of FillP — Data Link

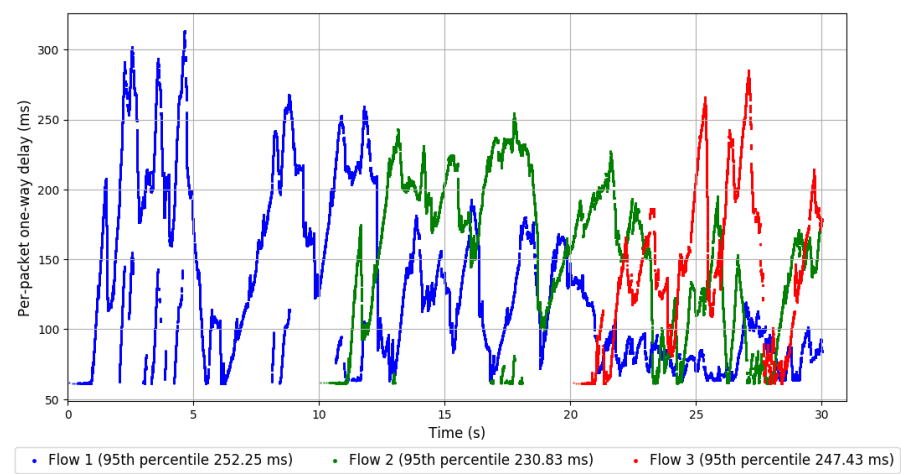
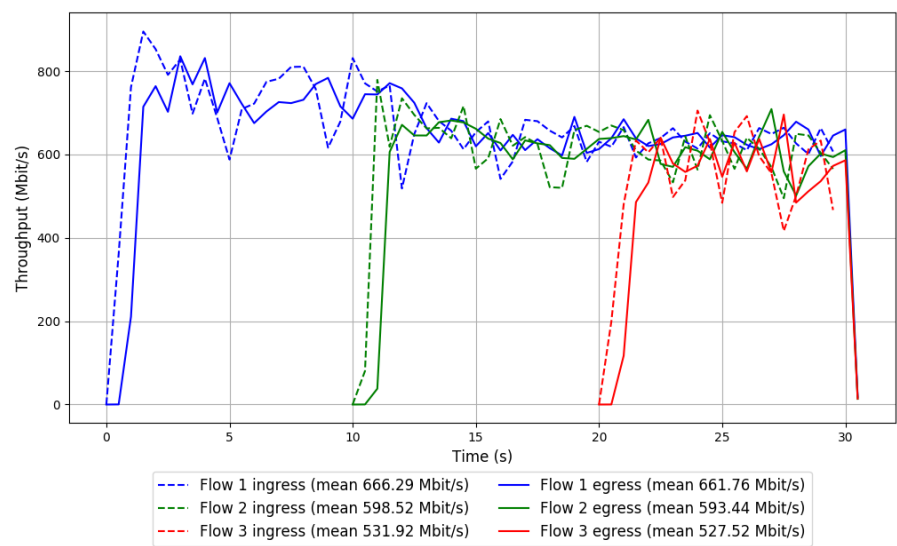


Run 10: Statistics of FillP

Start at: 2018-06-06 09:54:42
End at: 2018-06-06 09:55:12
Local clock offset: -0.104 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 1231.31 Mbit/s
95th percentile per-packet one-way delay: 240.178 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 661.76 Mbit/s
95th percentile per-packet one-way delay: 252.246 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 593.44 Mbit/s
95th percentile per-packet one-way delay: 230.834 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 527.52 Mbit/s
95th percentile per-packet one-way delay: 247.427 ms
Loss rate: 0.83%

Run 10: Report of FillP — Data Link

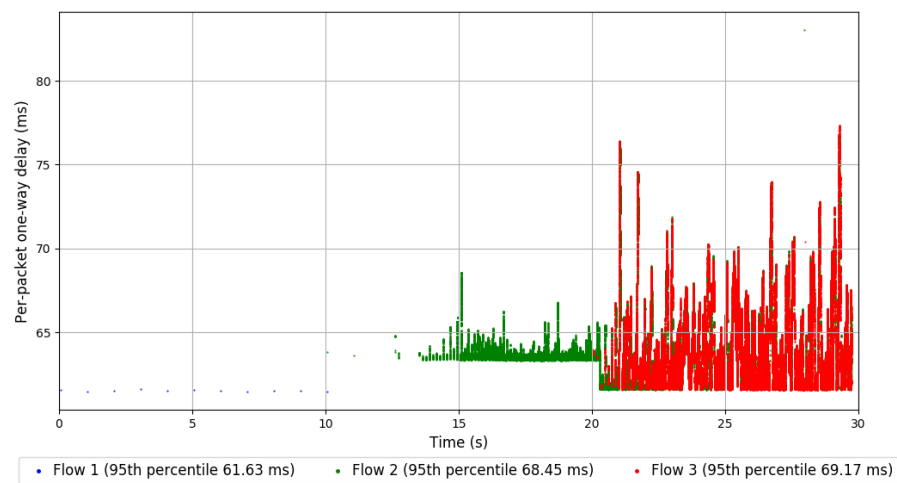
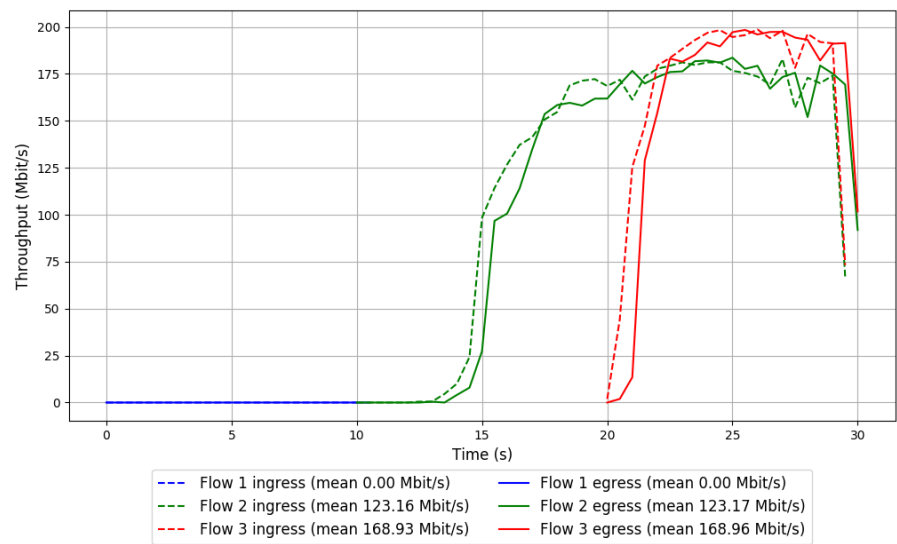


```
Run 1: Statistics of Indigo

Start at: 2018-06-06 06:23:40
End at: 2018-06-06 06:24:10
Local clock offset: -0.098 ms
Remote clock offset: -0.319 ms

# Below is generated by plot.py at 2018-06-06 11:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.74 Mbit/s
95th percentile per-packet one-way delay: 68.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 61.632 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 123.17 Mbit/s
95th percentile per-packet one-way delay: 68.447 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 168.96 Mbit/s
95th percentile per-packet one-way delay: 69.172 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

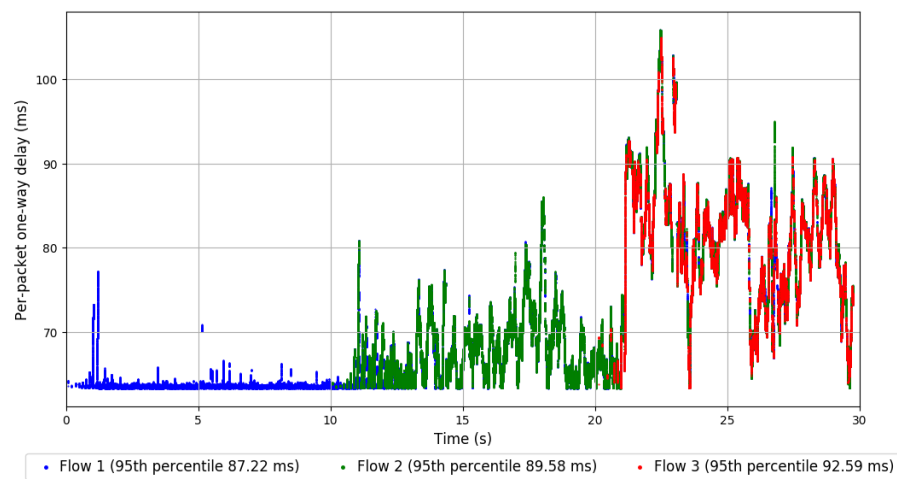
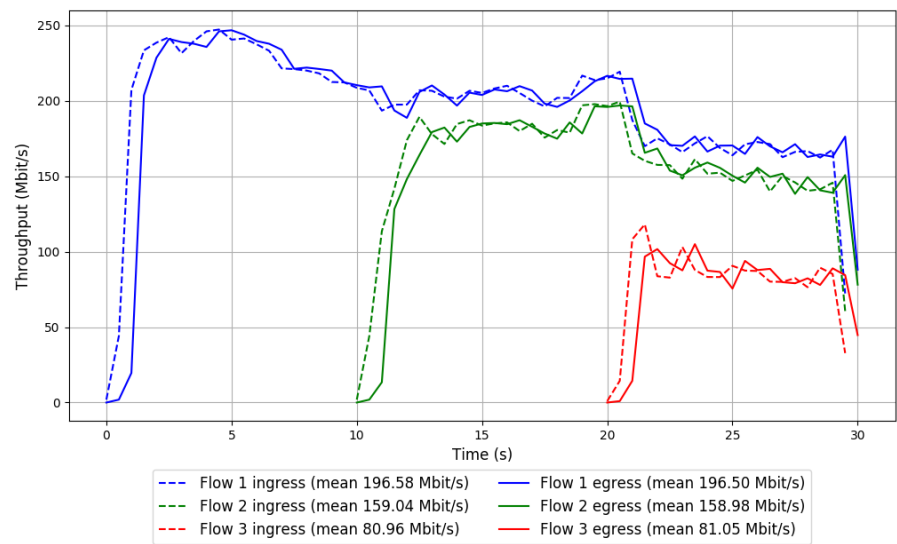


Run 2: Statistics of Indigo

Start at: 2018-06-06 06:45:55
End at: 2018-06-06 06:46:25
Local clock offset: -0.08 ms
Remote clock offset: -0.466 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 328.06 Mbit/s
95th percentile per-packet one-way delay: 88.676 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 196.50 Mbit/s
95th percentile per-packet one-way delay: 87.224 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 158.98 Mbit/s
95th percentile per-packet one-way delay: 89.575 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 81.05 Mbit/s
95th percentile per-packet one-way delay: 92.590 ms
Loss rate: 0.08%

Run 2: Report of Indigo — Data Link

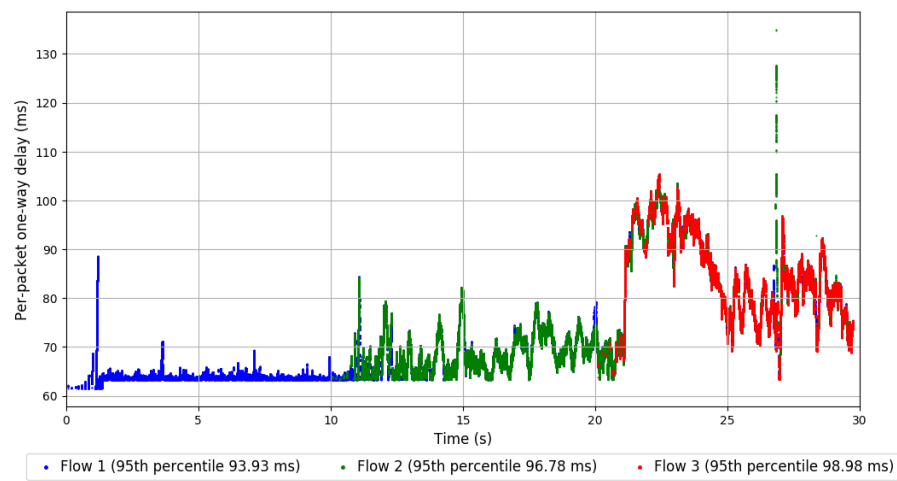
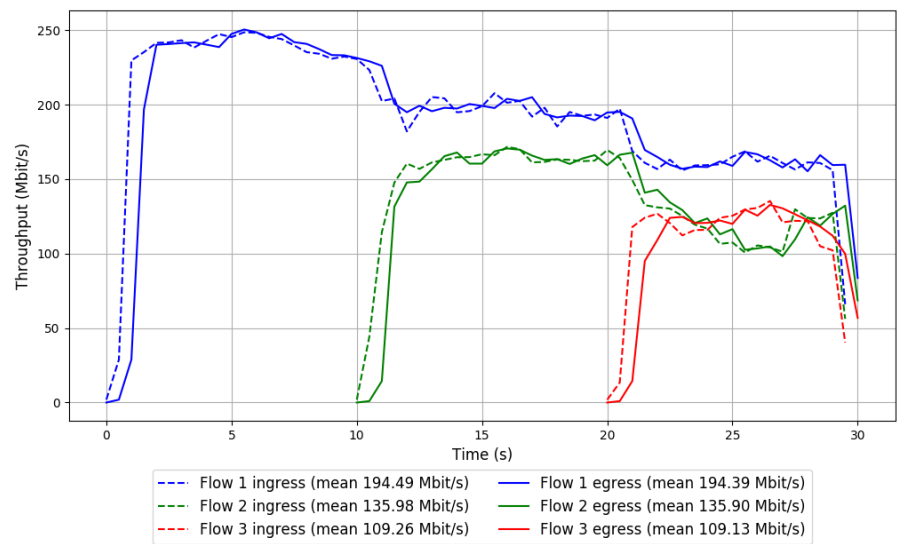


Run 3: Statistics of Indigo

Start at: 2018-06-06 07:08:19
End at: 2018-06-06 07:08:49
Local clock offset: -0.085 ms
Remote clock offset: -0.401 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.85 Mbit/s
95th percentile per-packet one-way delay: 96.338 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 194.39 Mbit/s
95th percentile per-packet one-way delay: 93.927 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 135.90 Mbit/s
95th percentile per-packet one-way delay: 96.775 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 109.13 Mbit/s
95th percentile per-packet one-way delay: 98.980 ms
Loss rate: 0.03%

Run 3: Report of Indigo — Data Link

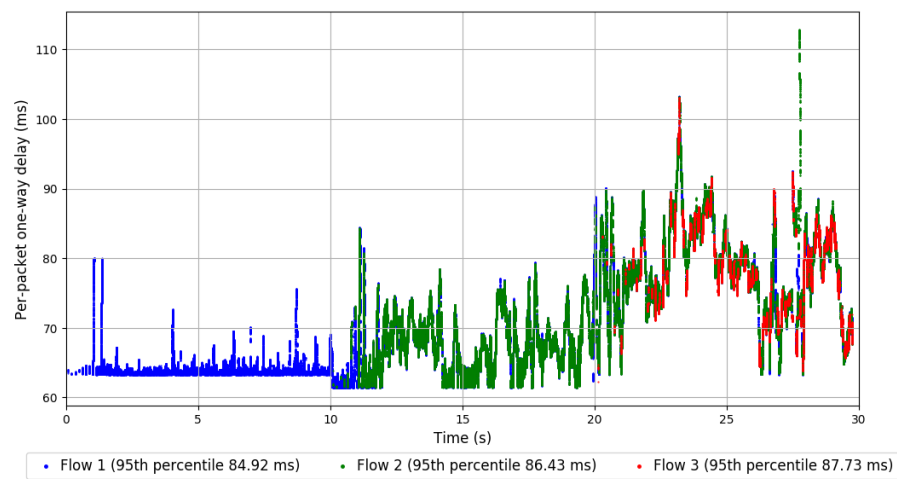
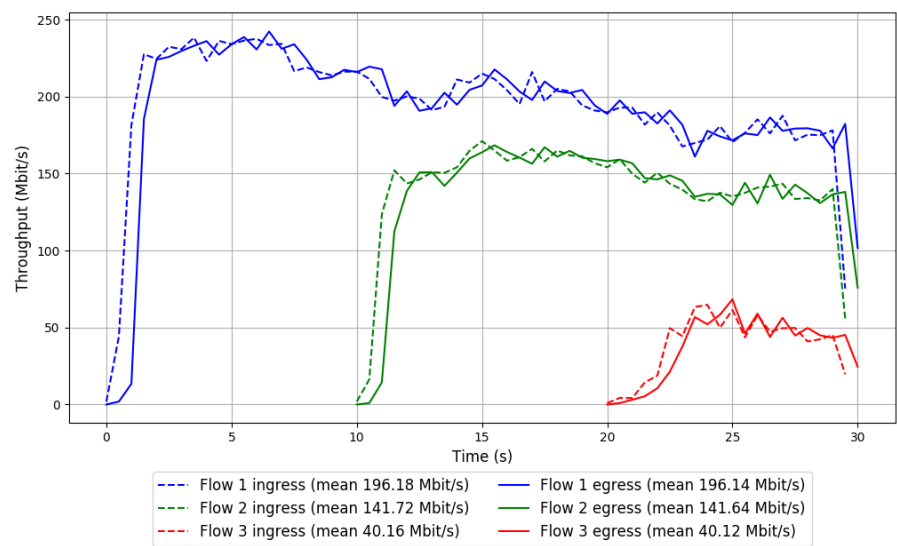


Run 4: Statistics of Indigo

Start at: 2018-06-06 07:30:51
End at: 2018-06-06 07:31:21
Local clock offset: 0.005 ms
Remote clock offset: -0.455 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 302.81 Mbit/s
95th percentile per-packet one-way delay: 85.739 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 196.14 Mbit/s
95th percentile per-packet one-way delay: 84.916 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 141.64 Mbit/s
95th percentile per-packet one-way delay: 86.426 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 40.12 Mbit/s
95th percentile per-packet one-way delay: 87.735 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

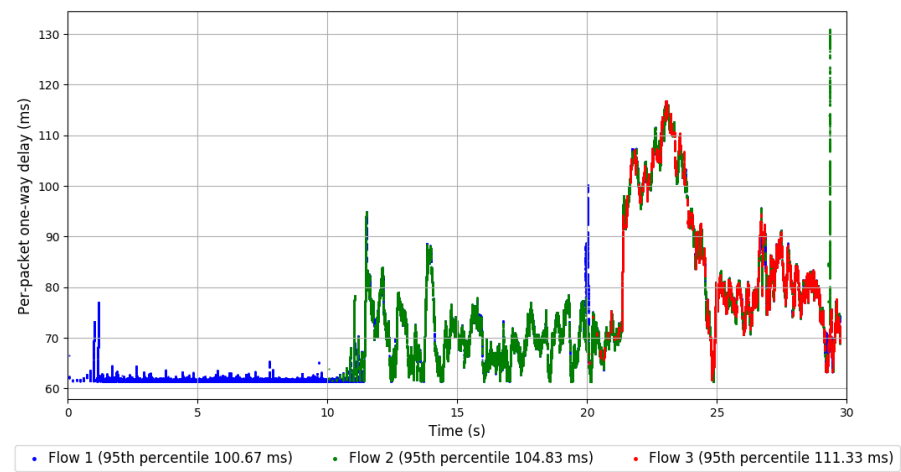
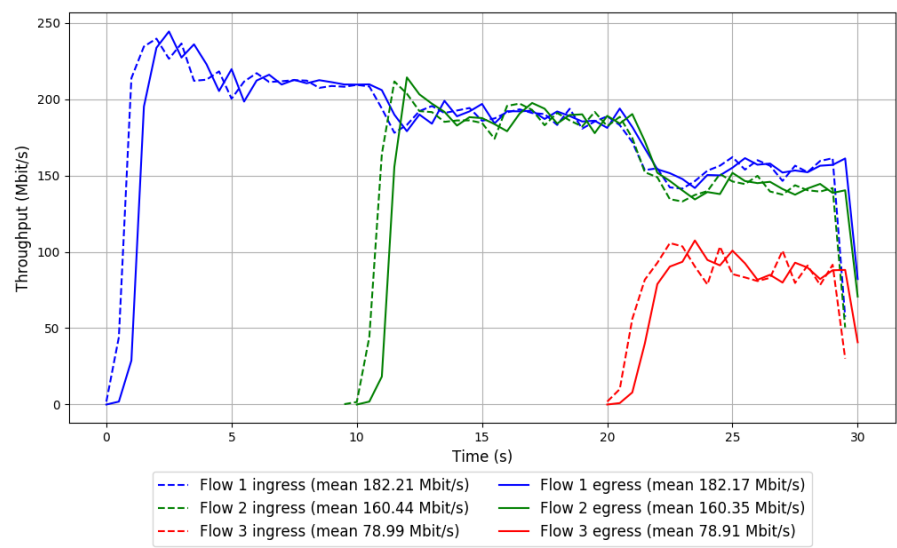


Run 5: Statistics of Indigo

Start at: 2018-06-06 07:53:05
End at: 2018-06-06 07:53:35
Local clock offset: -0.002 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 314.22 Mbit/s
95th percentile per-packet one-way delay: 104.406 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 182.17 Mbit/s
95th percentile per-packet one-way delay: 100.669 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 160.35 Mbit/s
95th percentile per-packet one-way delay: 104.825 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 78.91 Mbit/s
95th percentile per-packet one-way delay: 111.330 ms
Loss rate: 0.13%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-06 08:15:21

End at: 2018-06-06 08:15:51

Local clock offset: -0.082 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-06-06 11:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.95 Mbit/s

95th percentile per-packet one-way delay: 85.465 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 198.85 Mbit/s

95th percentile per-packet one-way delay: 83.190 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 170.39 Mbit/s

95th percentile per-packet one-way delay: 86.427 ms

Loss rate: 0.04%

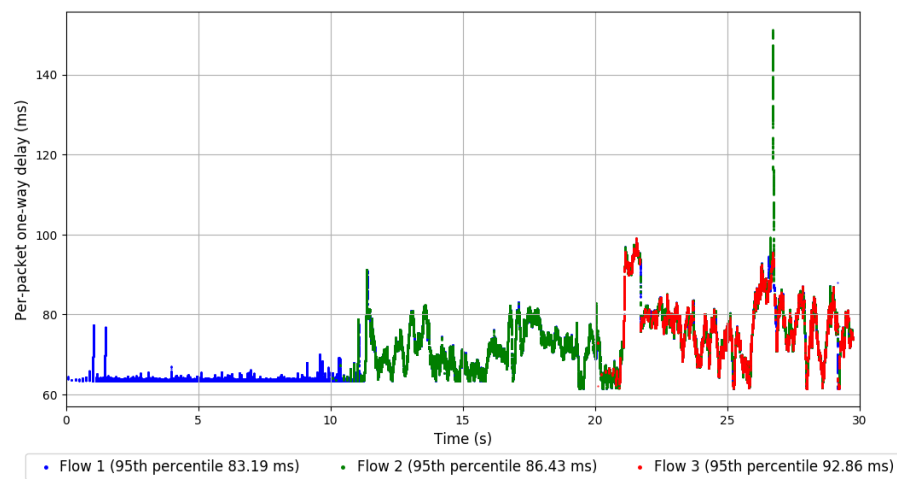
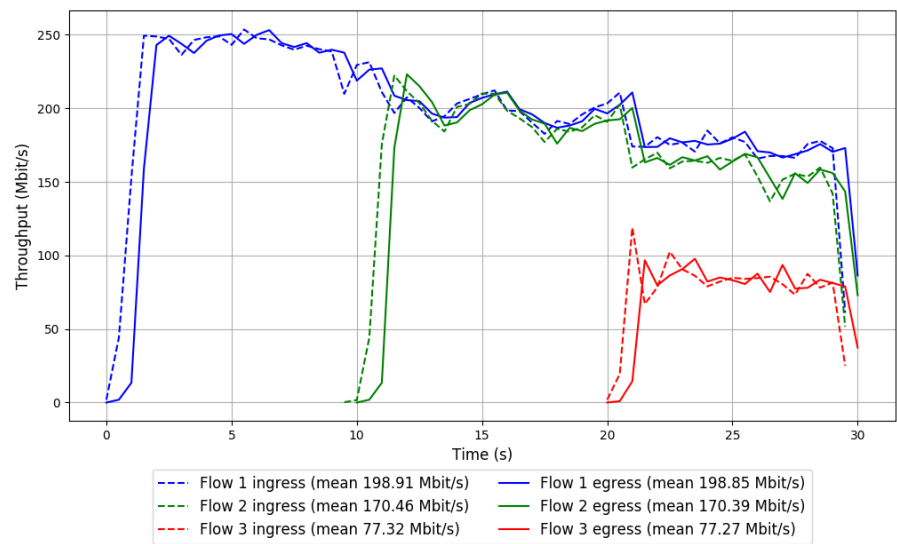
-- Flow 3:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 92.855 ms

Loss rate: 0.04%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-06 08:37:50

End at: 2018-06-06 08:38:20

Local clock offset: -0.049 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-06-06 11:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 315.13 Mbit/s

95th percentile per-packet one-way delay: 94.116 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 189.07 Mbit/s

95th percentile per-packet one-way delay: 91.620 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 160.16 Mbit/s

95th percentile per-packet one-way delay: 94.877 ms

Loss rate: 0.03%

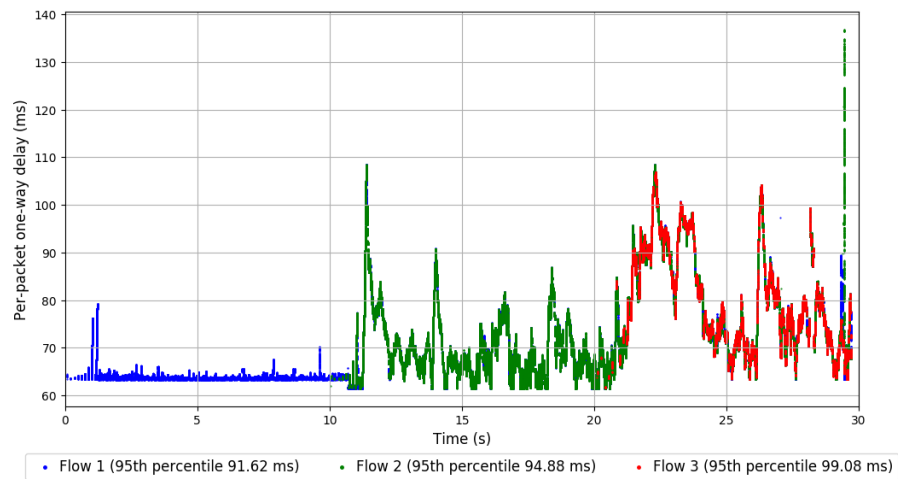
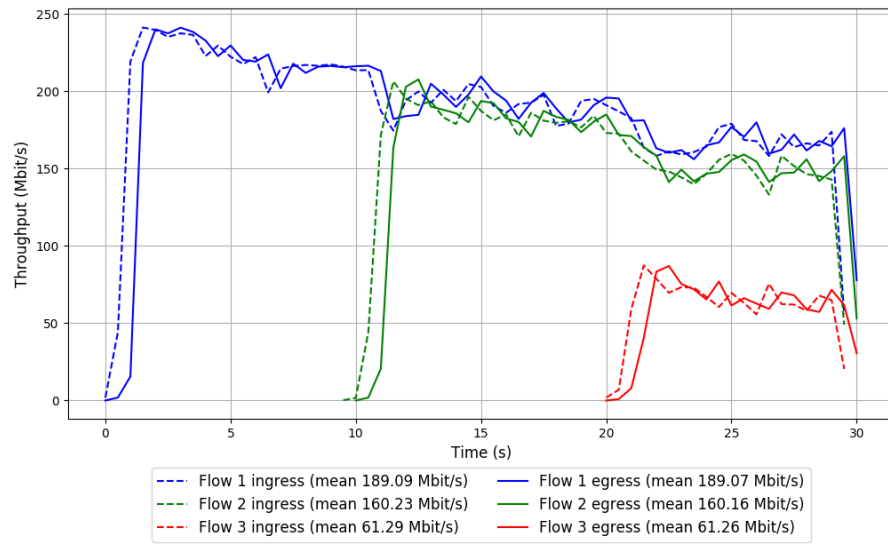
-- Flow 3:

Average throughput: 61.26 Mbit/s

95th percentile per-packet one-way delay: 99.081 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

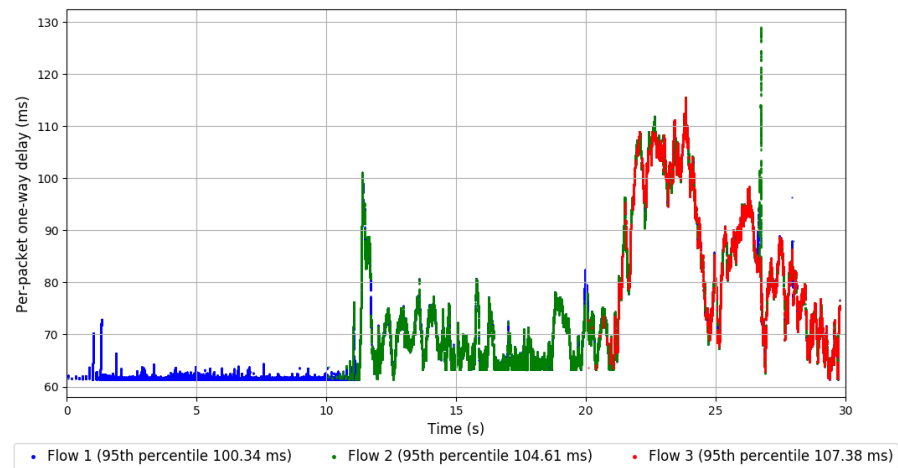
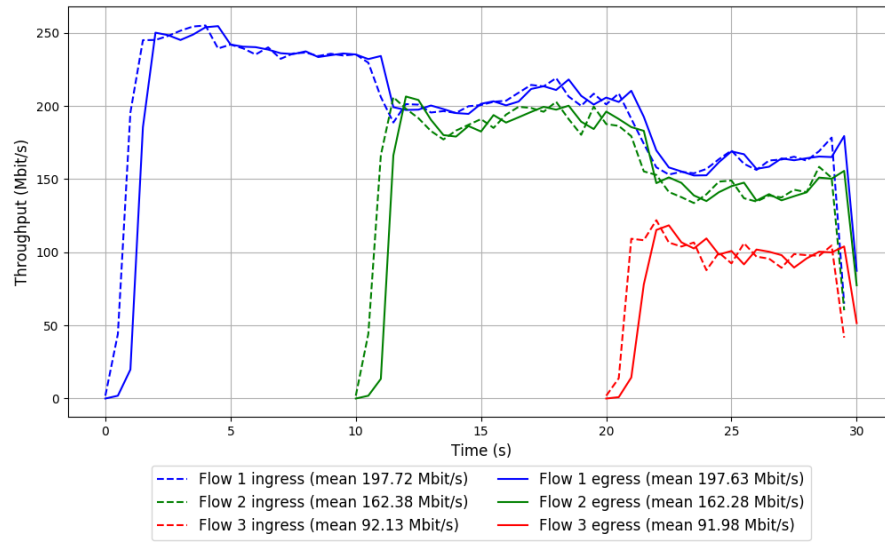


Run 8: Statistics of Indigo

Start at: 2018-06-06 09:00:18
End at: 2018-06-06 09:00:48
Local clock offset: -0.1 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.10 Mbit/s
95th percentile per-packet one-way delay: 104.070 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 197.63 Mbit/s
95th percentile per-packet one-way delay: 100.341 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 162.28 Mbit/s
95th percentile per-packet one-way delay: 104.605 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 91.98 Mbit/s
95th percentile per-packet one-way delay: 107.382 ms
Loss rate: 0.15%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-06 09:22:45

End at: 2018-06-06 09:23:15

Local clock offset: -0.155 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-06 11:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.39 Mbit/s

95th percentile per-packet one-way delay: 93.583 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 181.65 Mbit/s

95th percentile per-packet one-way delay: 89.215 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 174.58 Mbit/s

95th percentile per-packet one-way delay: 94.456 ms

Loss rate: 0.04%

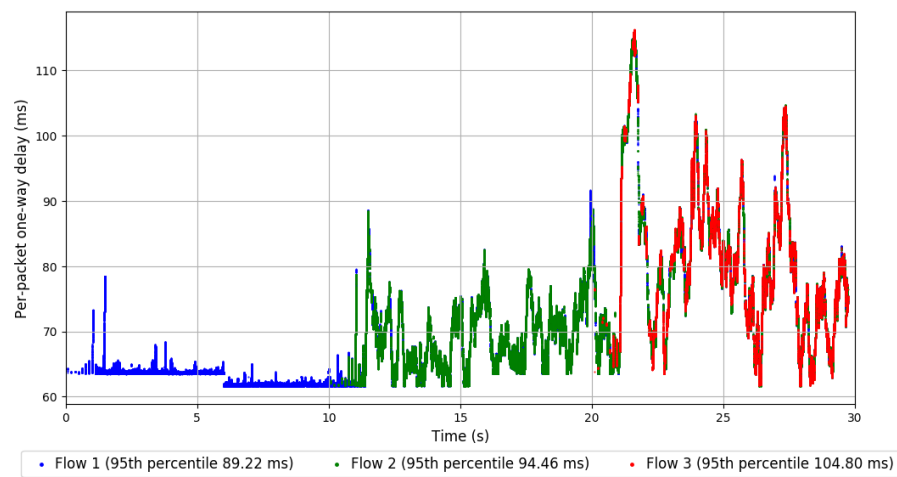
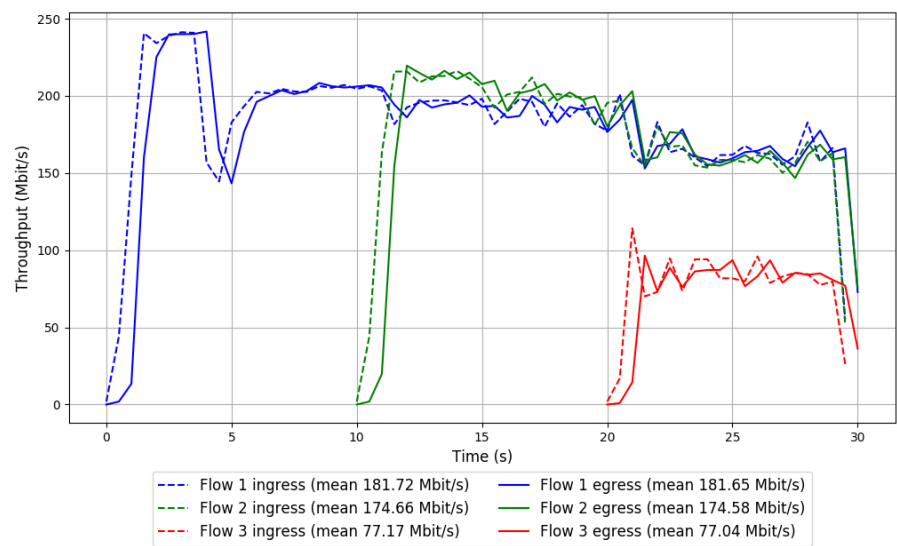
-- Flow 3:

Average throughput: 77.04 Mbit/s

95th percentile per-packet one-way delay: 104.797 ms

Loss rate: 0.14%

Run 9: Report of Indigo — Data Link

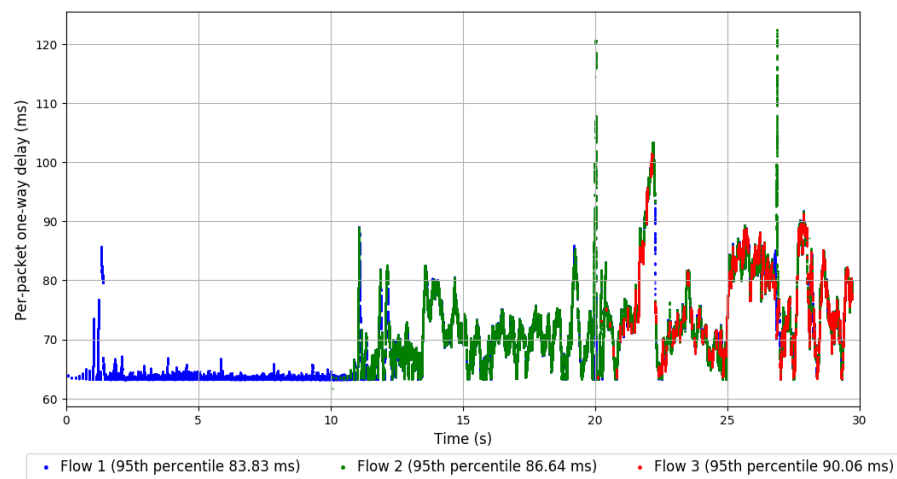
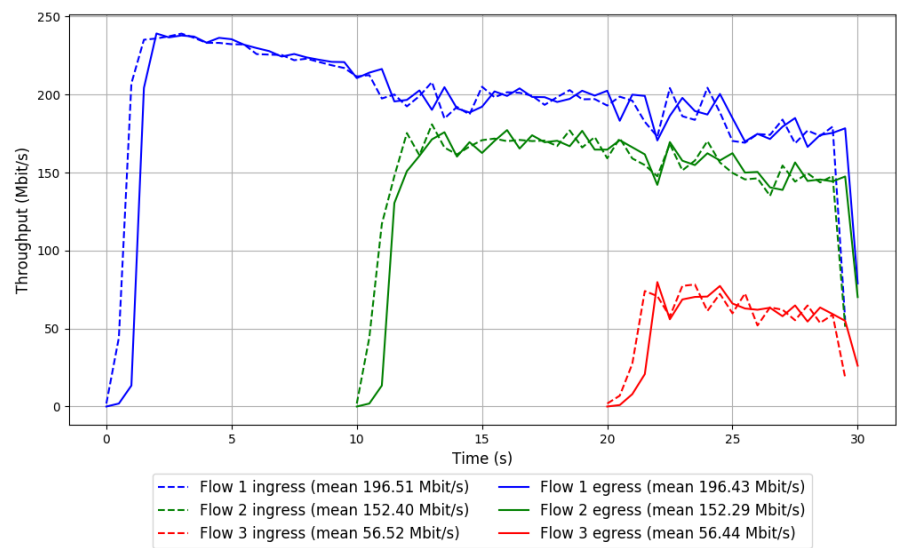


Run 10: Statistics of Indigo

Start at: 2018-06-06 09:45:17
End at: 2018-06-06 09:45:47
Local clock offset: -0.082 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 315.69 Mbit/s
95th percentile per-packet one-way delay: 85.260 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 196.43 Mbit/s
95th percentile per-packet one-way delay: 83.828 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 152.29 Mbit/s
95th percentile per-packet one-way delay: 86.642 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 56.44 Mbit/s
95th percentile per-packet one-way delay: 90.063 ms
Loss rate: 0.13%

Run 10: Report of Indigo — Data Link

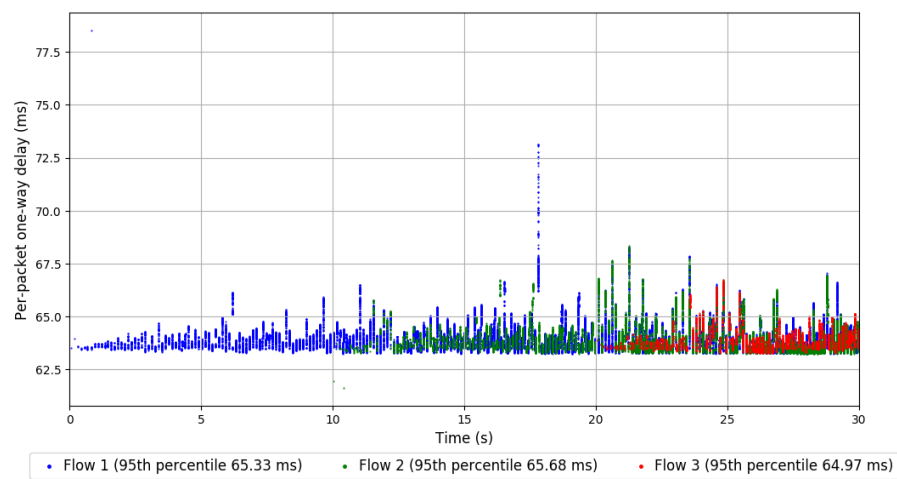
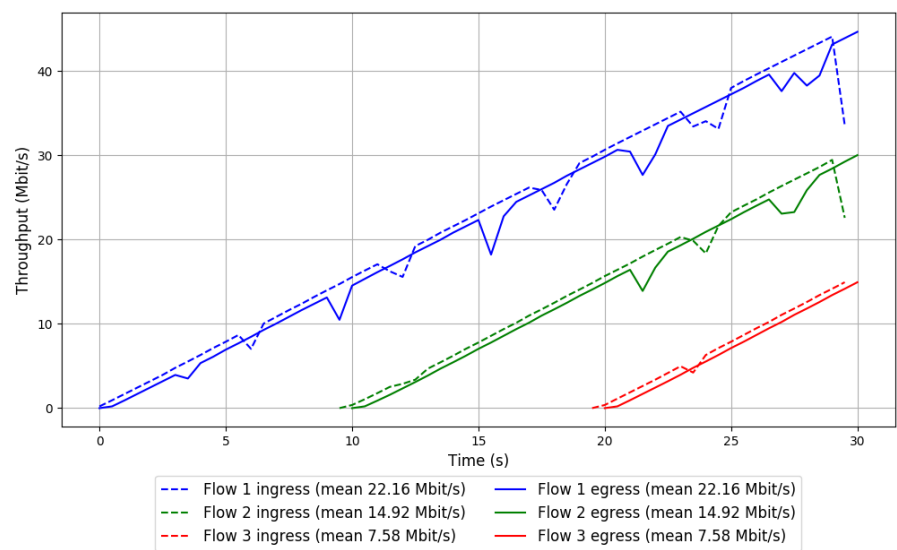


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 06:14:19
End at: 2018-06-06 06:14:49
Local clock offset: -0.088 ms
Remote clock offset: -0.364 ms

# Below is generated by plot.py at 2018-06-06 11:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.57 Mbit/s
95th percentile per-packet one-way delay: 65.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.16 Mbit/s
95th percentile per-packet one-way delay: 65.327 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 65.680 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 64.972 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

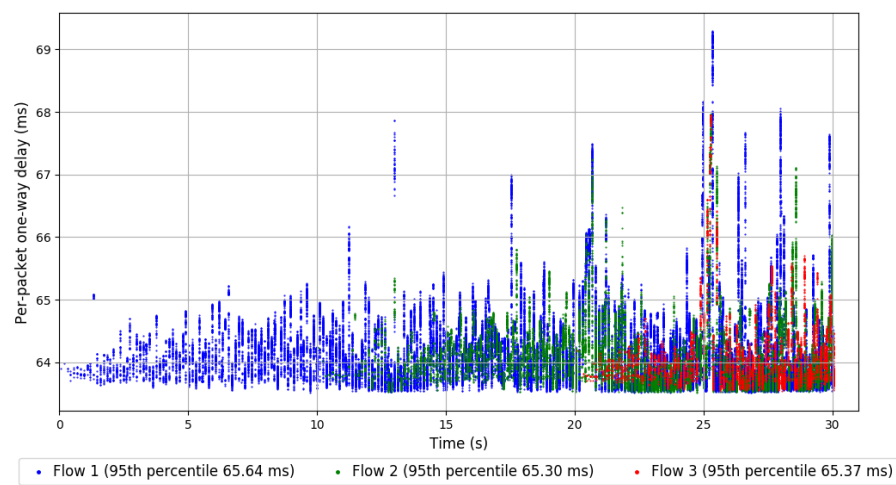
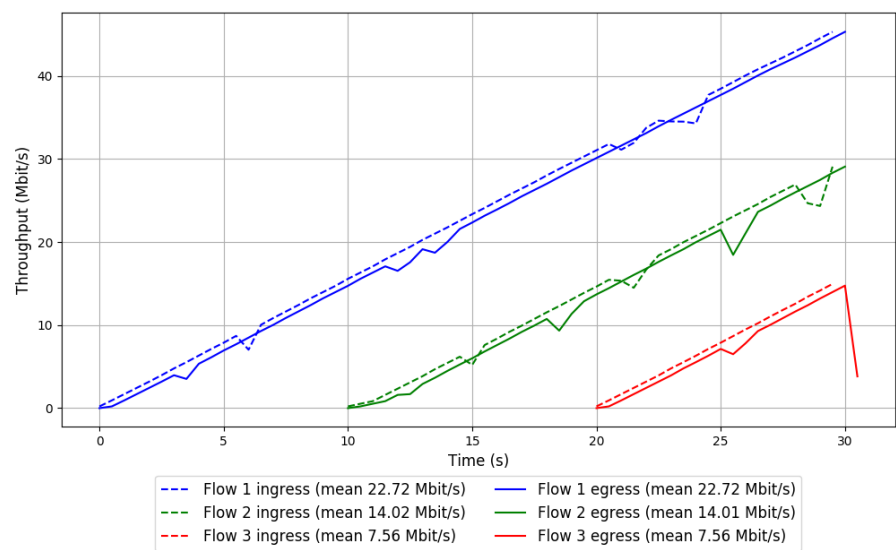


Run 2: Statistics of LEDBAT

Start at: 2018-06-06 06:36:33
End at: 2018-06-06 06:37:03
Local clock offset: -0.097 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 65.512 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.72 Mbit/s
95th percentile per-packet one-way delay: 65.639 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 65.297 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 65.369 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

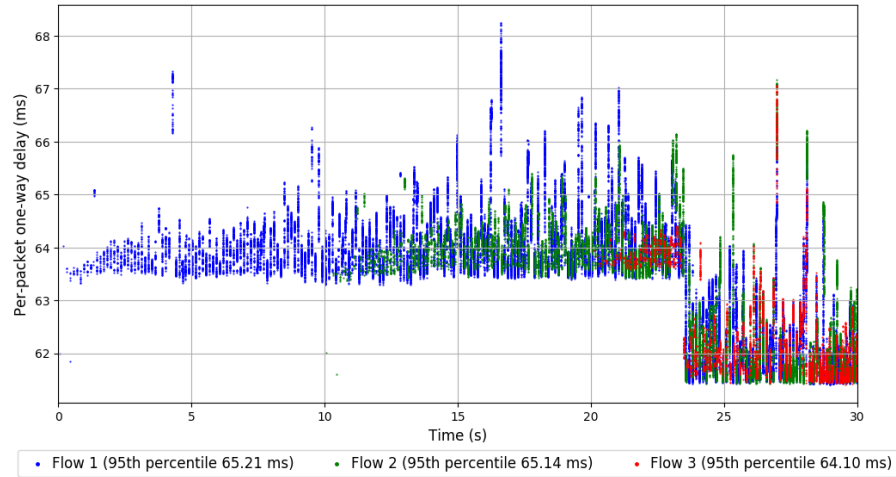
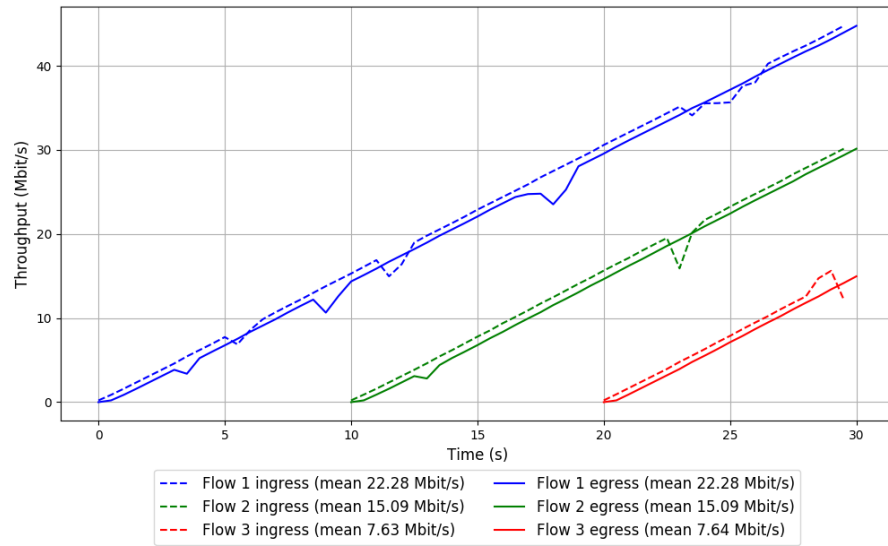


Run 3: Statistics of LEDBAT

Start at: 2018-06-06 06:58:57
End at: 2018-06-06 06:59:27
Local clock offset: -0.093 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 65.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.28 Mbit/s
95th percentile per-packet one-way delay: 65.209 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 65.141 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 64.097 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

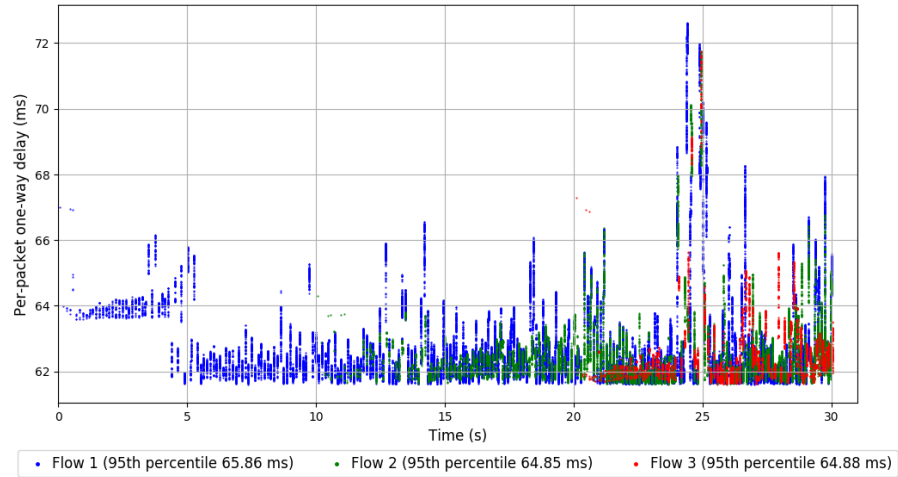
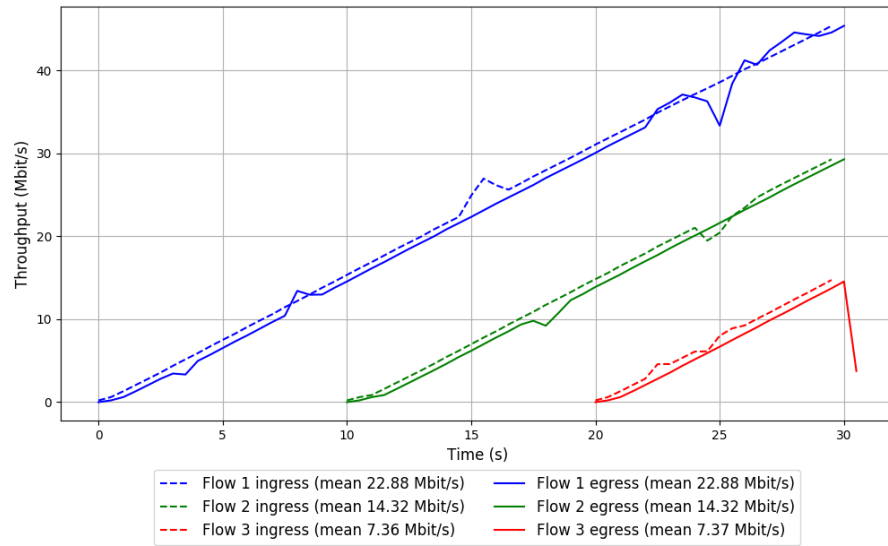


Run 4: Statistics of LEDBAT

Start at: 2018-06-06 07:21:26
End at: 2018-06-06 07:21:56
Local clock offset: -0.015 ms
Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 65.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 65.857 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 64.850 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 64.875 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-06 07:43:47

End at: 2018-06-06 07:44:17

Local clock offset: -0.011 ms

Remote clock offset: -0.46 ms

Below is generated by plot.py at 2018-06-06 11:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 64.723 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 21.72 Mbit/s

95th percentile per-packet one-way delay: 64.801 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 9.24 Mbit/s

95th percentile per-packet one-way delay: 64.649 ms

Loss rate: 0.01%

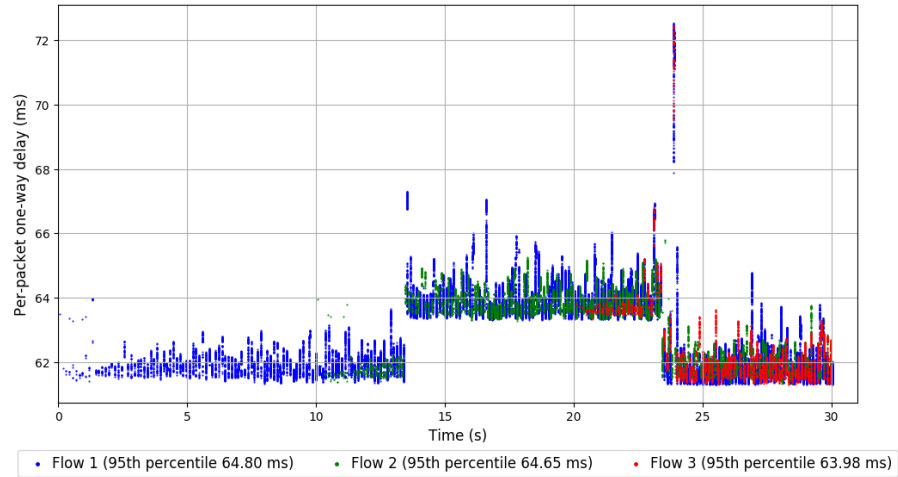
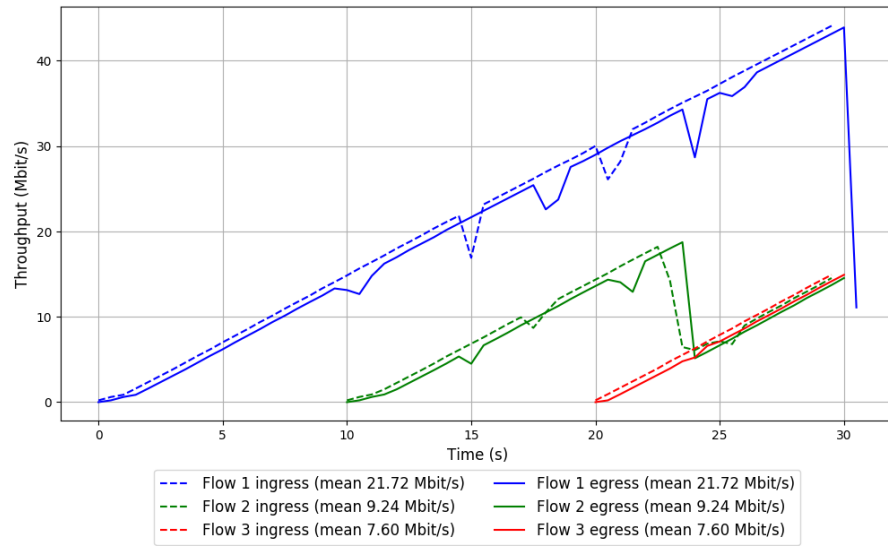
-- Flow 3:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 63.984 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

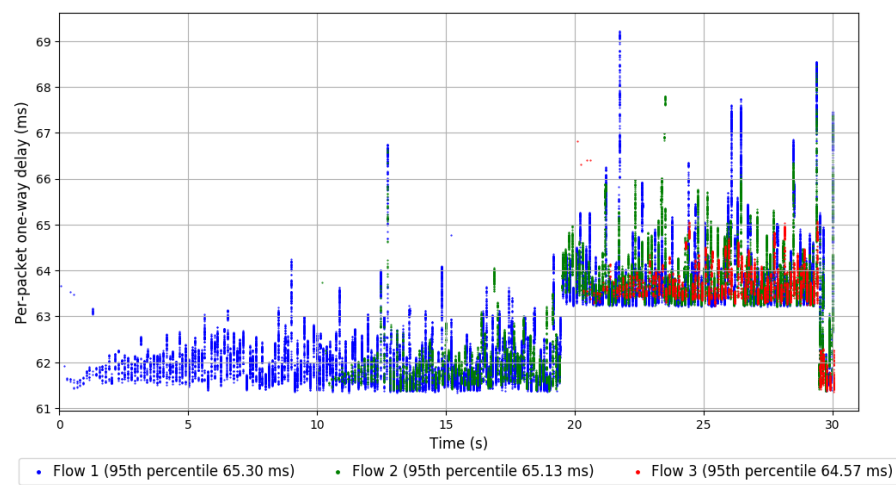
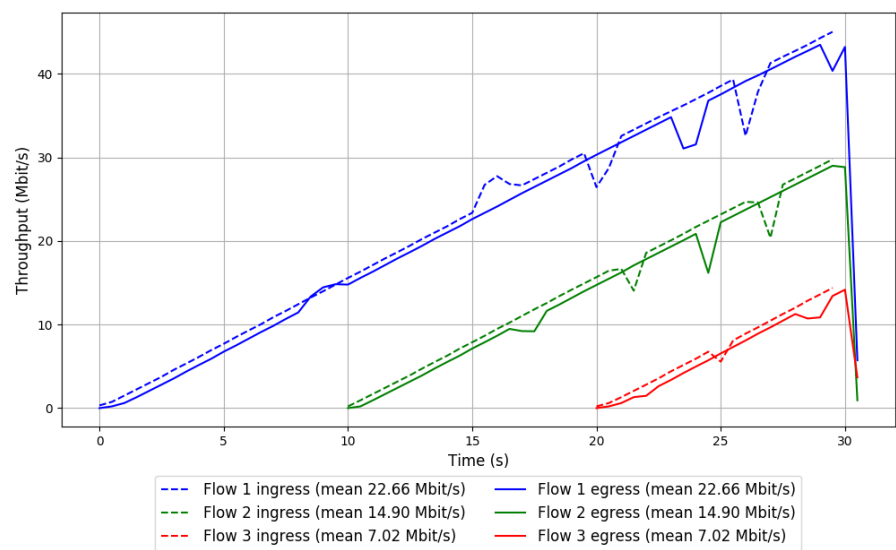


Run 6: Statistics of LEDBAT

Start at: 2018-06-06 08:06:01
End at: 2018-06-06 08:06:31
Local clock offset: -0.047 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 65.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.66 Mbit/s
95th percentile per-packet one-way delay: 65.298 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.90 Mbit/s
95th percentile per-packet one-way delay: 65.131 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 64.567 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-06 08:28:28

End at: 2018-06-06 08:28:58

Local clock offset: -0.049 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-06-06 11:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 30.84 Mbit/s

95th percentile per-packet one-way delay: 64.926 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 18.57 Mbit/s

95th percentile per-packet one-way delay: 64.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 14.72 Mbit/s

95th percentile per-packet one-way delay: 64.895 ms

Loss rate: 0.00%

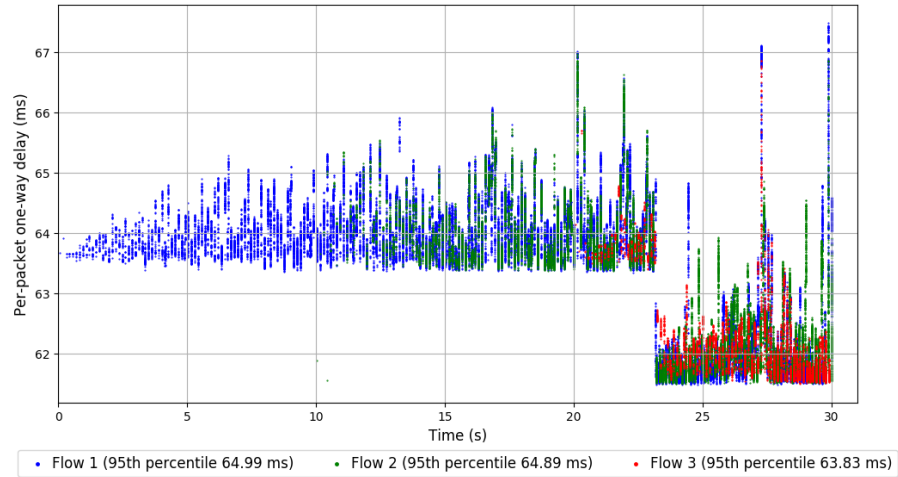
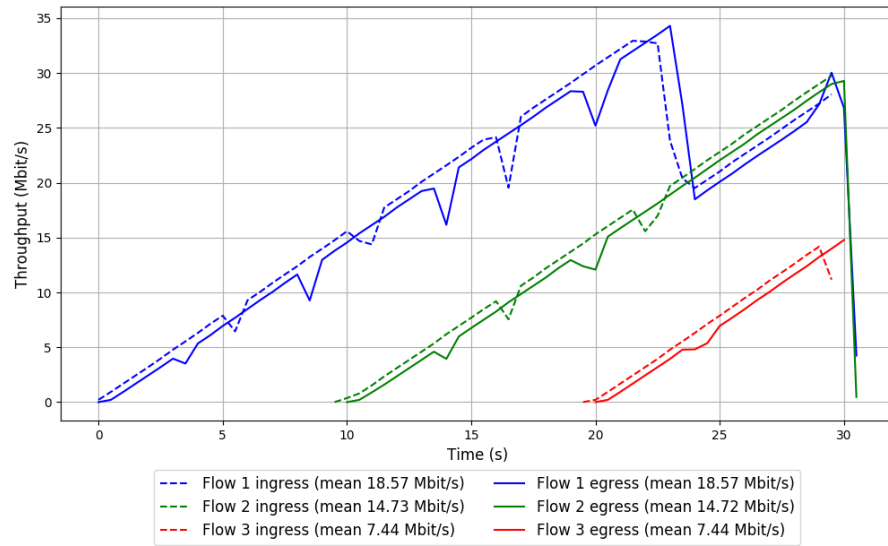
-- Flow 3:

Average throughput: 7.44 Mbit/s

95th percentile per-packet one-way delay: 63.833 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-06 08:50:57

End at: 2018-06-06 08:51:27

Local clock offset: -0.049 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2018-06-06 11:20:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 35.39 Mbit/s

95th percentile per-packet one-way delay: 65.426 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.91 Mbit/s

95th percentile per-packet one-way delay: 65.614 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 15.22 Mbit/s

95th percentile per-packet one-way delay: 65.184 ms

Loss rate: 0.00%

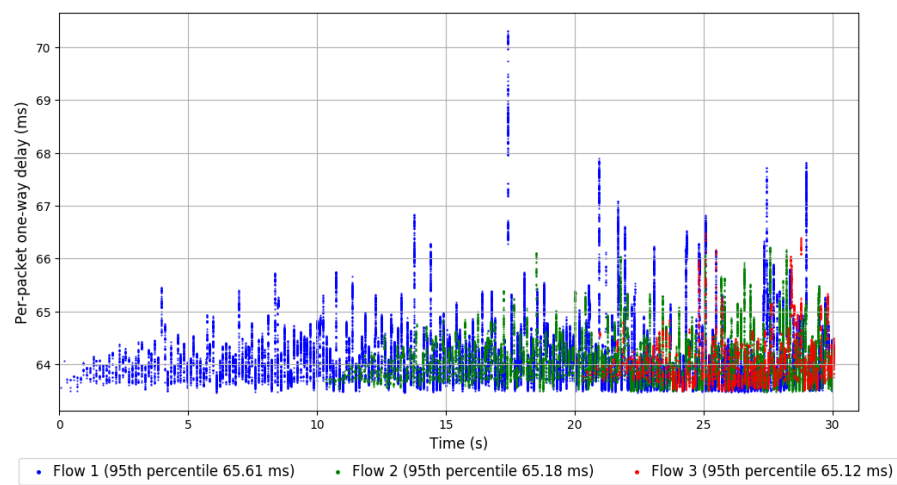
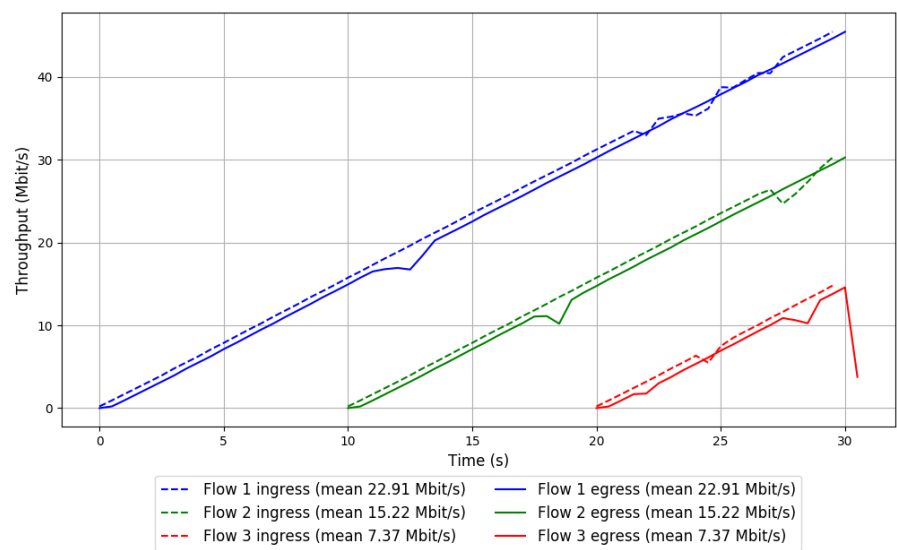
-- Flow 3:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 65.116 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

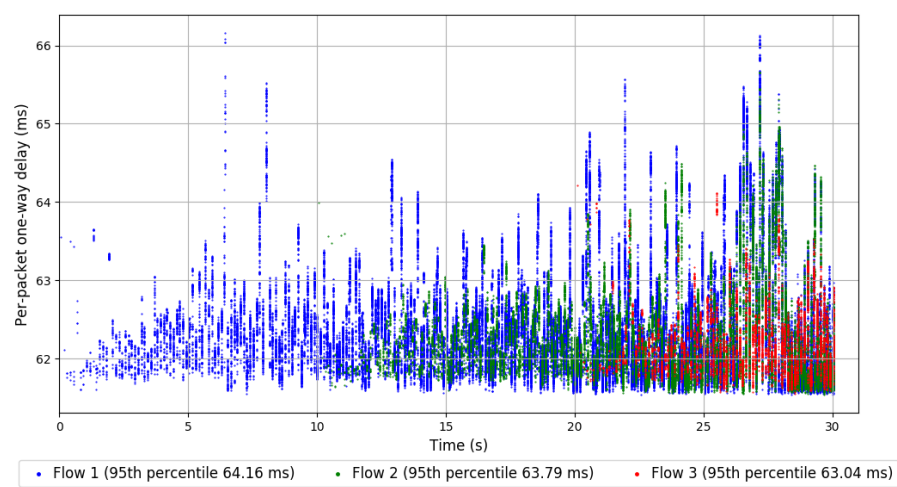
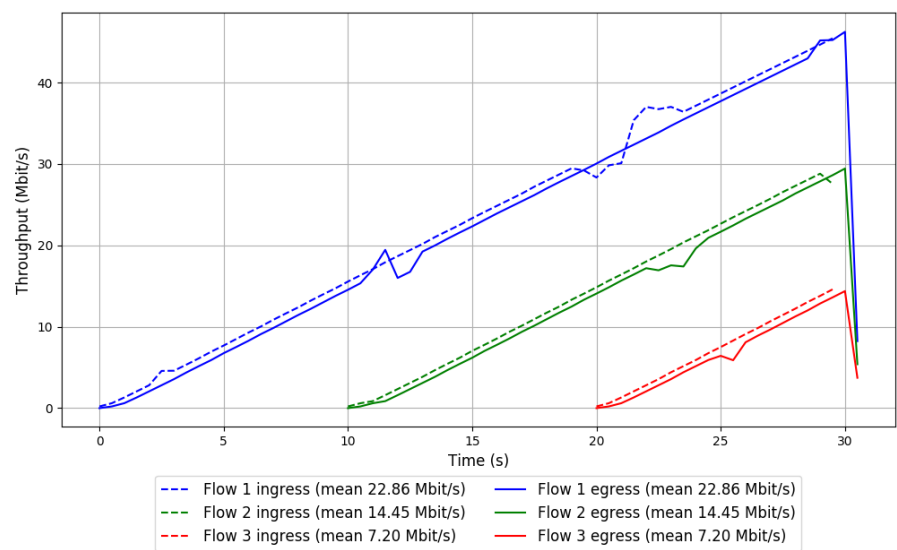


Run 9: Statistics of LEDBAT

Start at: 2018-06-06 09:13:29
End at: 2018-06-06 09:13:59
Local clock offset: -0.158 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 64.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.86 Mbit/s
95th percentile per-packet one-way delay: 64.158 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 63.787 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 63.036 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

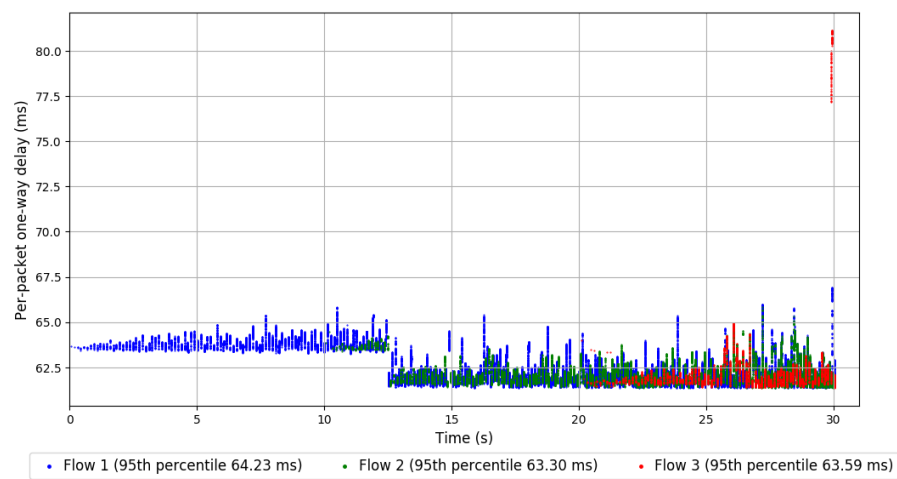
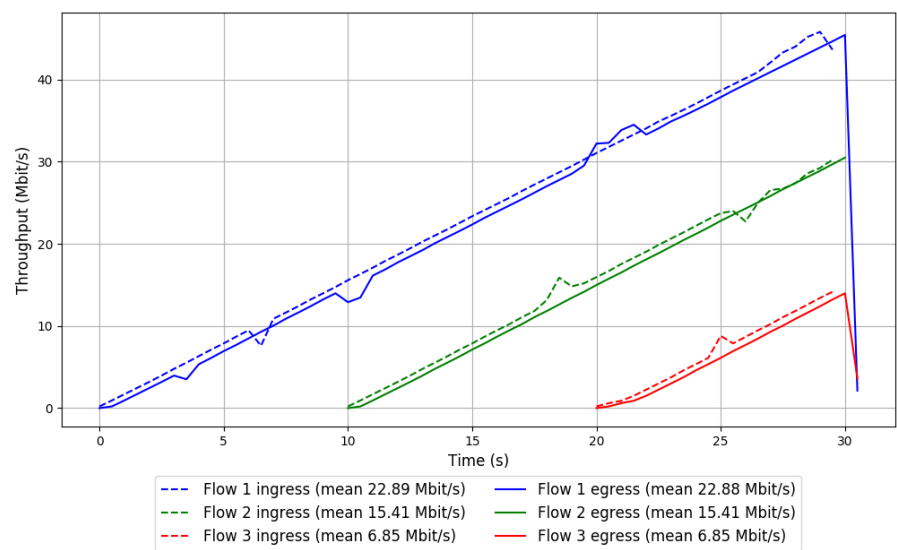


Run 10: Statistics of LEDBAT

Start at: 2018-06-06 09:35:48
End at: 2018-06-06 09:36:18
Local clock offset: -0.111 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.39 Mbit/s
95th percentile per-packet one-way delay: 64.086 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 22.88 Mbit/s
95th percentile per-packet one-way delay: 64.231 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 15.41 Mbit/s
95th percentile per-packet one-way delay: 63.304 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 63.589 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

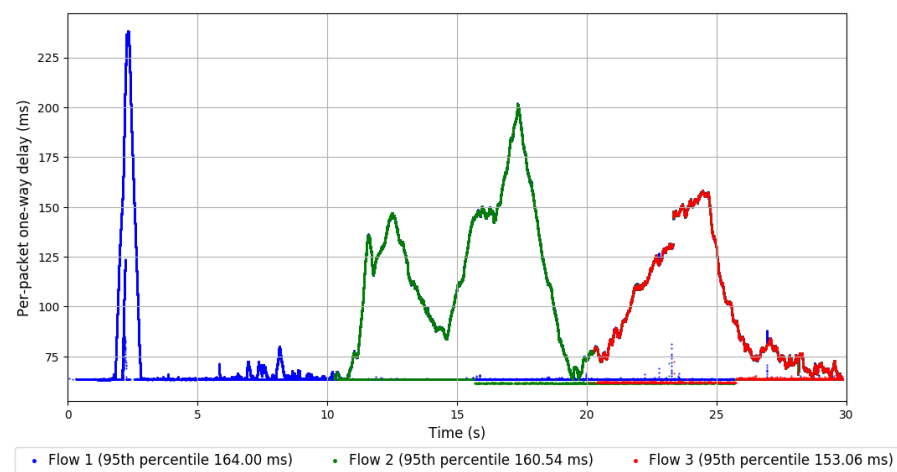
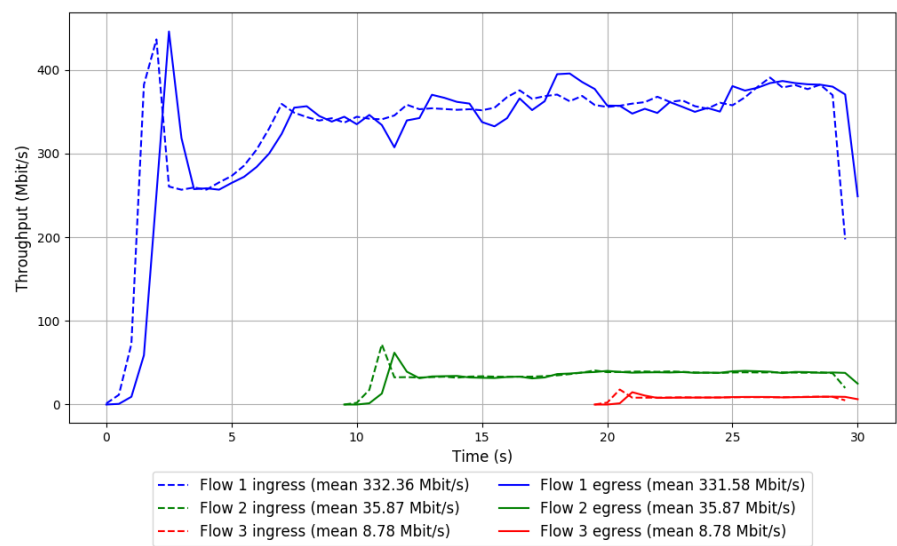


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 06:20:55
End at: 2018-06-06 06:21:25
Local clock offset: -0.095 ms
Remote clock offset: -0.29 ms

# Below is generated by plot.py at 2018-06-06 11:20:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 358.38 Mbit/s
95th percentile per-packet one-way delay: 163.387 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 331.58 Mbit/s
95th percentile per-packet one-way delay: 164.001 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 35.87 Mbit/s
95th percentile per-packet one-way delay: 160.540 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 153.055 ms
Loss rate: 0.00%
```


Run 1: Report of PCC-Allegro — Data Link

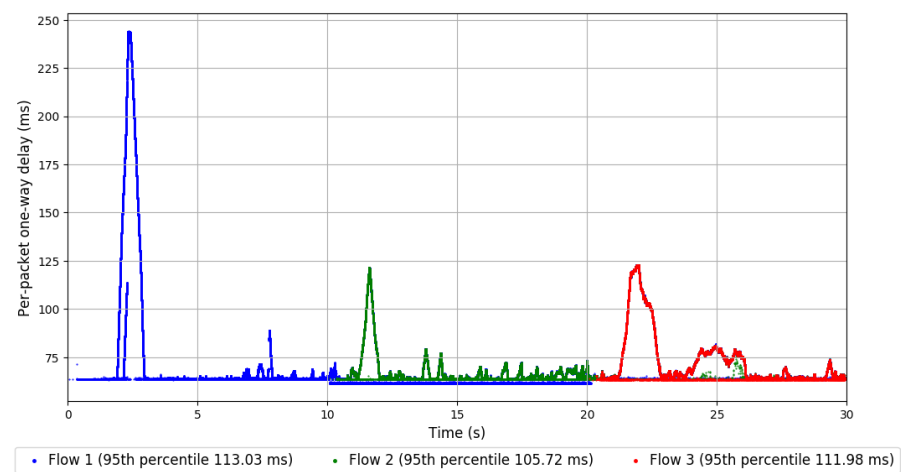
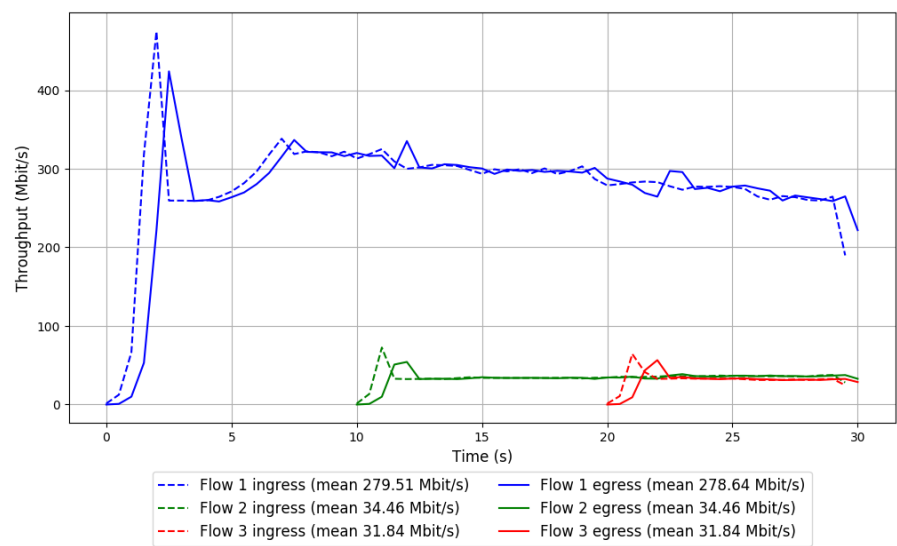


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 06:43:10
End at: 2018-06-06 06:43:40
Local clock offset: -0.076 ms
Remote clock offset: -0.374 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 312.03 Mbit/s
95th percentile per-packet one-way delay: 111.922 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 278.64 Mbit/s
95th percentile per-packet one-way delay: 113.033 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 34.46 Mbit/s
95th percentile per-packet one-way delay: 105.725 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 31.84 Mbit/s
95th percentile per-packet one-way delay: 111.978 ms
Loss rate: 0.02%

Run 2: Report of PCC-Allegro — Data Link

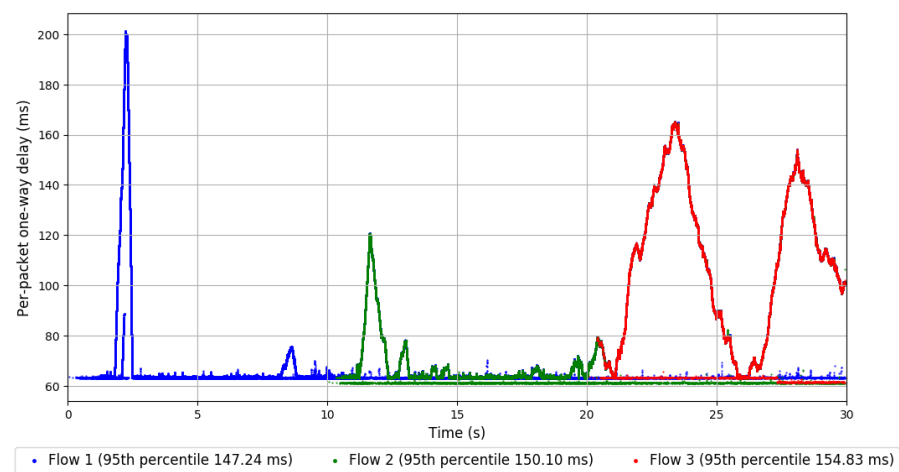
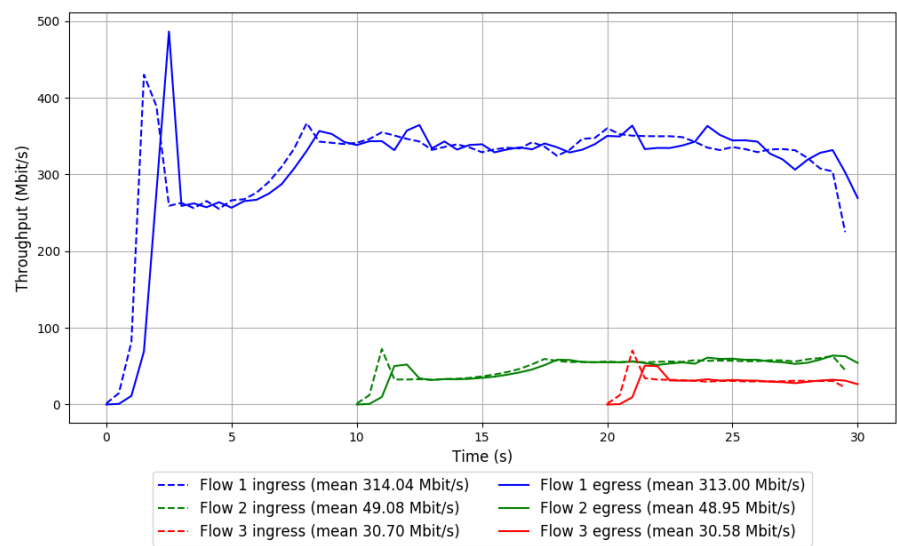


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 07:05:33
End at: 2018-06-06 07:06:03
Local clock offset: -0.097 ms
Remote clock offset: -0.736 ms

Below is generated by plot.py at 2018-06-06 11:20:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 355.55 Mbit/s
95th percentile per-packet one-way delay: 148.006 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 313.00 Mbit/s
95th percentile per-packet one-way delay: 147.239 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 48.95 Mbit/s
95th percentile per-packet one-way delay: 150.104 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 154.834 ms
Loss rate: 0.37%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 07:28:06

End at: 2018-06-06 07:28:36

Local clock offset: -0.02 ms

Remote clock offset: -0.56 ms

Below is generated by plot.py at 2018-06-06 11:20:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 317.33 Mbit/s

95th percentile per-packet one-way delay: 179.211 ms

Loss rate: 0.24%

-- Flow 1:

Average throughput: 285.50 Mbit/s

95th percentile per-packet one-way delay: 176.224 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 17.00 Mbit/s

95th percentile per-packet one-way delay: 173.416 ms

Loss rate: 0.00%

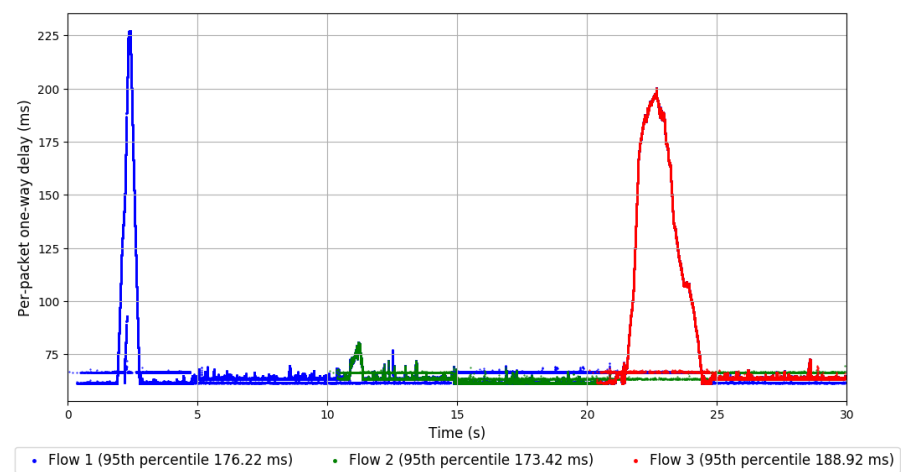
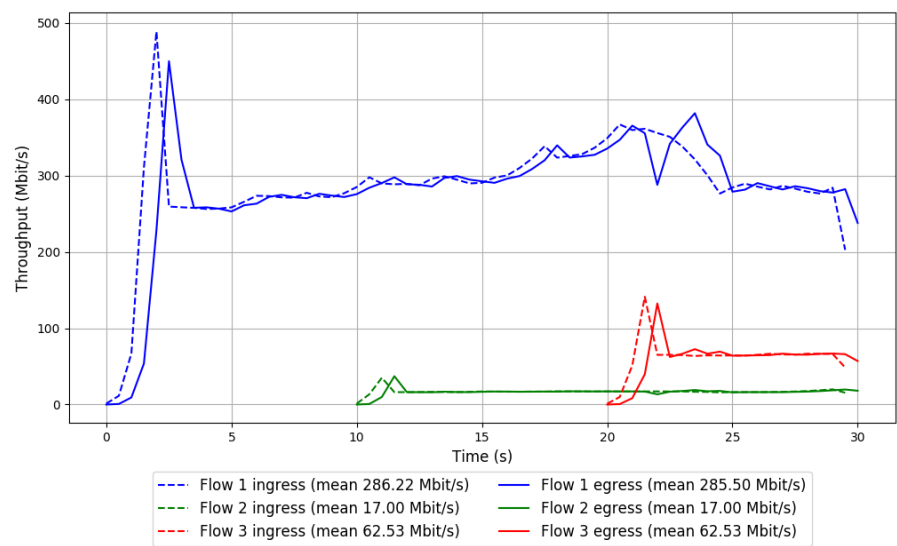
-- Flow 3:

Average throughput: 62.53 Mbit/s

95th percentile per-packet one-way delay: 188.916 ms

Loss rate: 0.01%

Run 4: Report of PCC-Allegro — Data Link

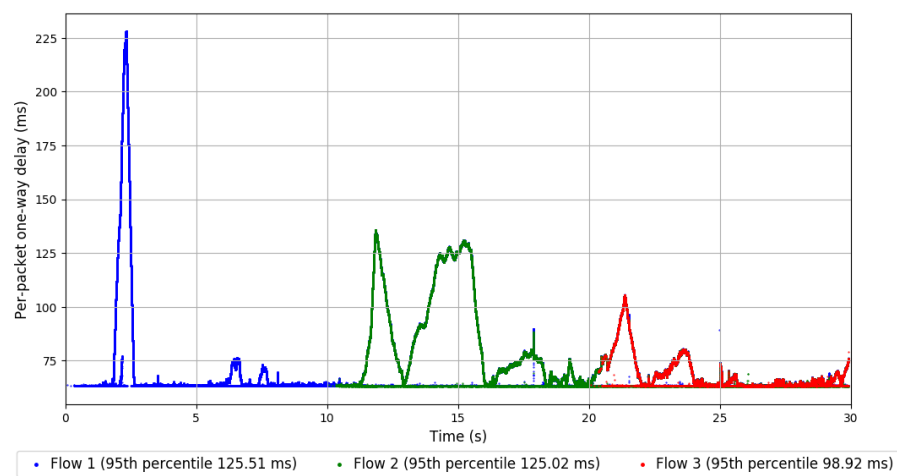
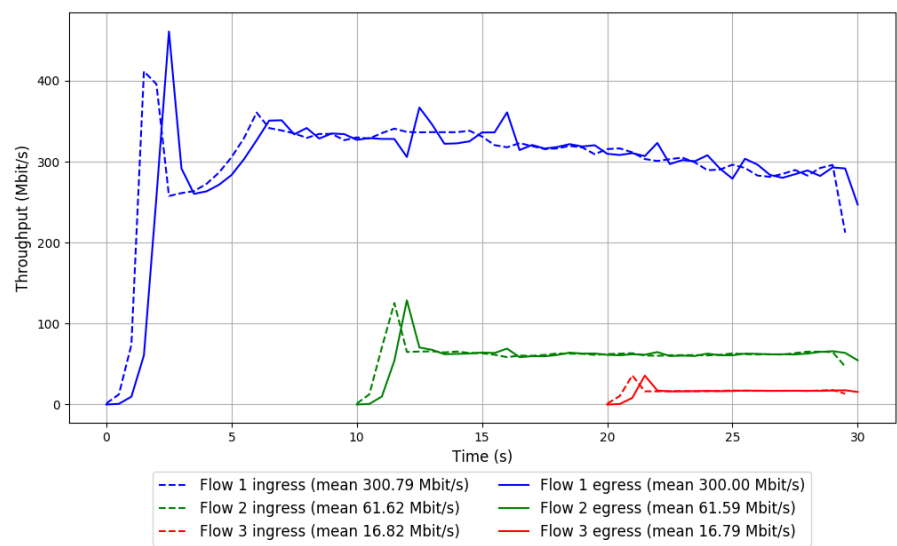


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 07:50:21
End at: 2018-06-06 07:50:51
Local clock offset: -0.032 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2018-06-06 11:20:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.45 Mbit/s
95th percentile per-packet one-way delay: 125.319 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 300.00 Mbit/s
95th percentile per-packet one-way delay: 125.509 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 61.59 Mbit/s
95th percentile per-packet one-way delay: 125.018 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 16.79 Mbit/s
95th percentile per-packet one-way delay: 98.916 ms
Loss rate: 0.12%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 08:12:42

End at: 2018-06-06 08:13:12

Local clock offset: -0.068 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-06 11:20:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 318.60 Mbit/s

95th percentile per-packet one-way delay: 105.505 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 296.07 Mbit/s

95th percentile per-packet one-way delay: 105.797 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 17.92 Mbit/s

95th percentile per-packet one-way delay: 103.215 ms

Loss rate: 0.00%

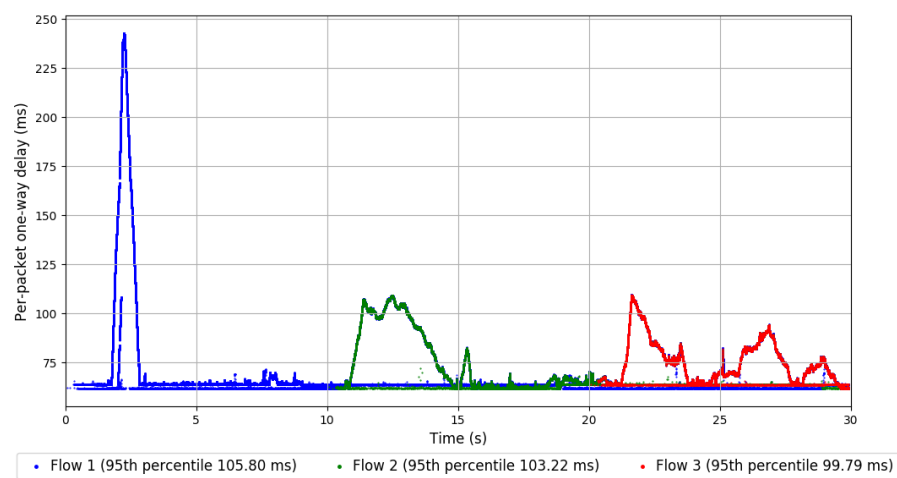
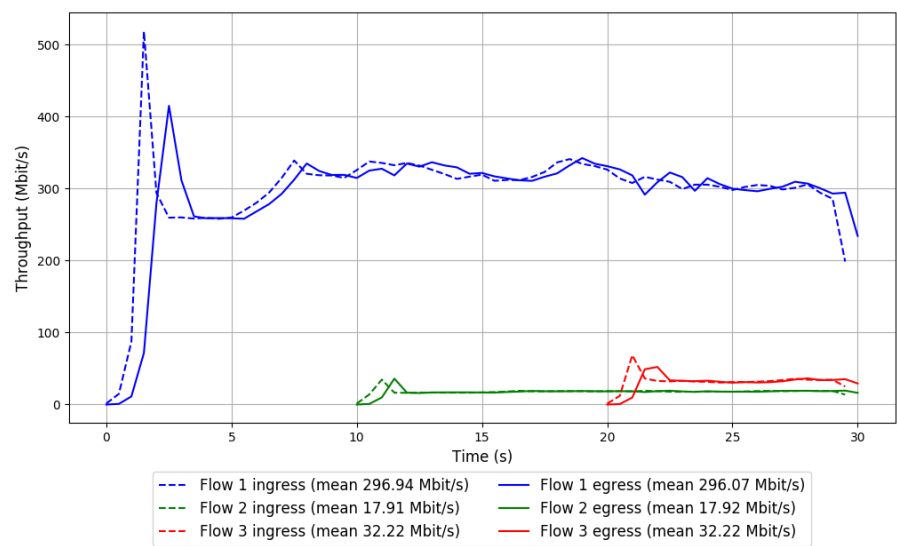
-- Flow 3:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 99.791 ms

Loss rate: 0.00%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 08:35:08

End at: 2018-06-06 08:35:38

Local clock offset: -0.033 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-06 11:20:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.47 Mbit/s

95th percentile per-packet one-way delay: 236.765 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 351.69 Mbit/s

95th percentile per-packet one-way delay: 236.661 ms

Loss rate: 1.16%

-- Flow 2:

Average throughput: 15.73 Mbit/s

95th percentile per-packet one-way delay: 237.763 ms

Loss rate: 1.51%

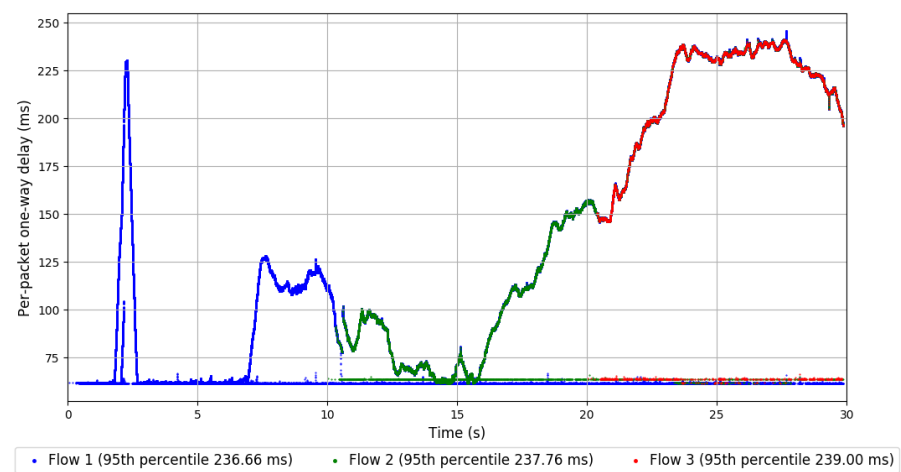
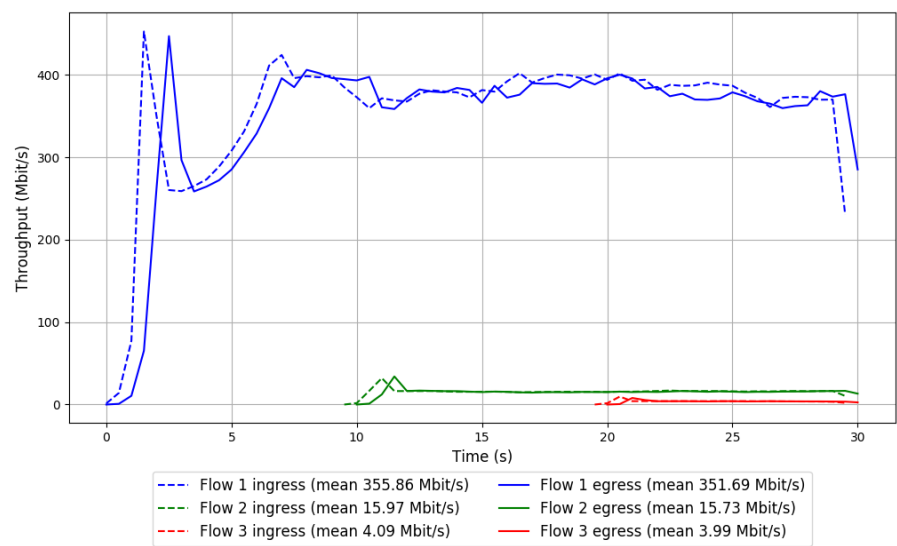
-- Flow 3:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 238.999 ms

Loss rate: 2.50%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 08:57:34

End at: 2018-06-06 08:58:04

Local clock offset: -0.06 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-06-06 11:20:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 340.42 Mbit/s

95th percentile per-packet one-way delay: 198.646 ms

Loss rate: 0.20%

-- Flow 1:

Average throughput: 294.79 Mbit/s

95th percentile per-packet one-way delay: 198.477 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 60.18 Mbit/s

95th percentile per-packet one-way delay: 203.005 ms

Loss rate: 0.05%

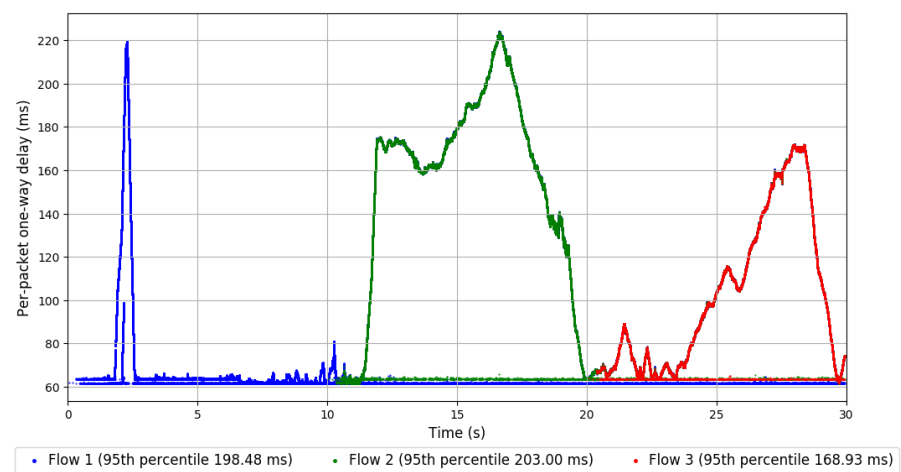
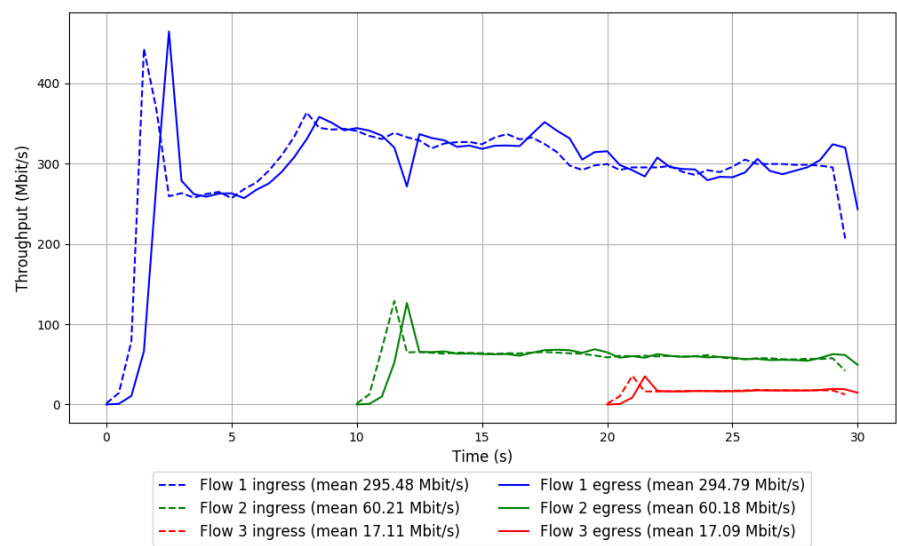
-- Flow 3:

Average throughput: 17.09 Mbit/s

95th percentile per-packet one-way delay: 168.934 ms

Loss rate: 0.10%

Run 8: Report of PCC-Allegro — Data Link

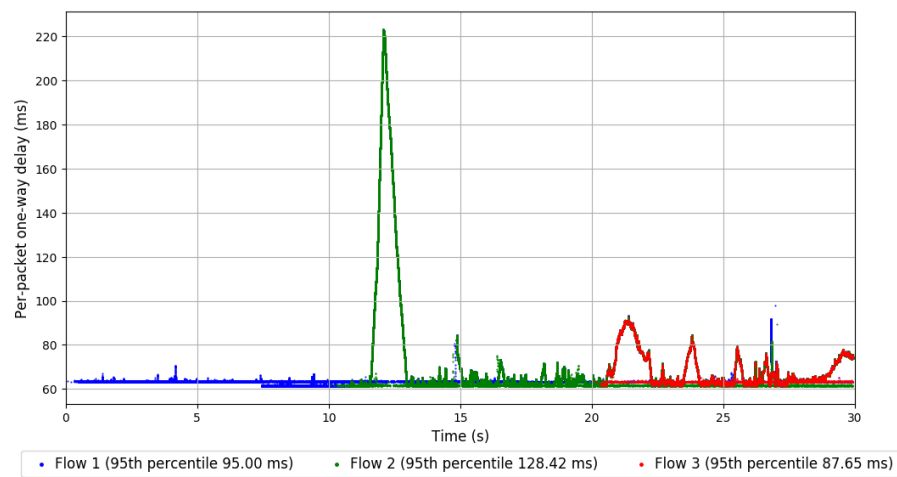
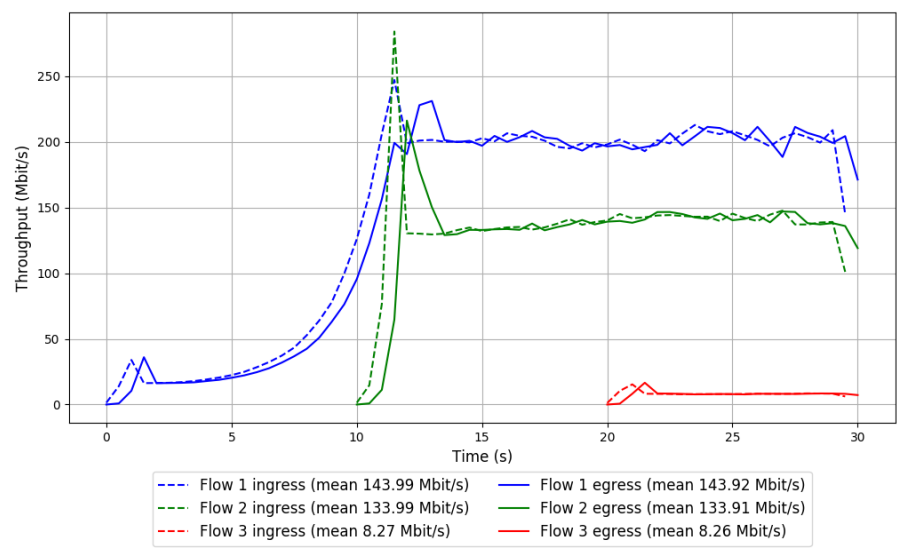


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 09:20:03
End at: 2018-06-06 09:20:33
Local clock offset: -0.129 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-06-06 11:20:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.66 Mbit/s
95th percentile per-packet one-way delay: 107.758 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 143.92 Mbit/s
95th percentile per-packet one-way delay: 95.003 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 133.91 Mbit/s
95th percentile per-packet one-way delay: 128.417 ms
Loss rate: 0.06%
-- Flow 3:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 87.654 ms
Loss rate: 0.12%

Run 9: Report of PCC-Allegro — Data Link

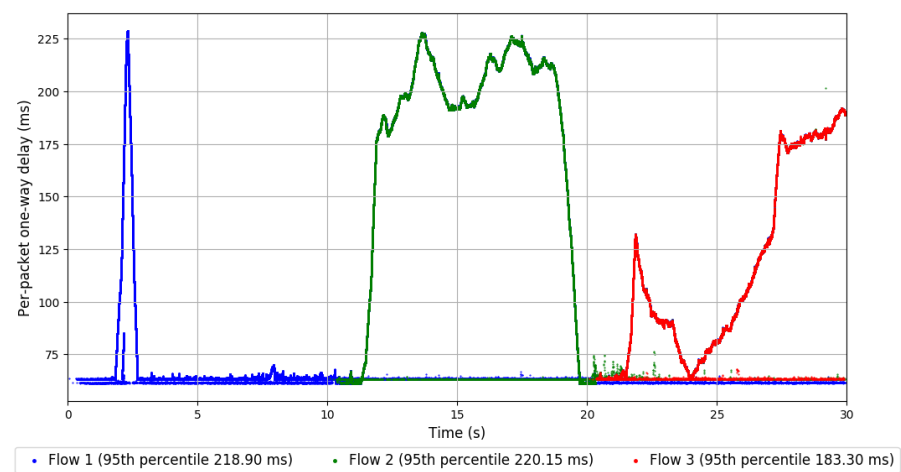
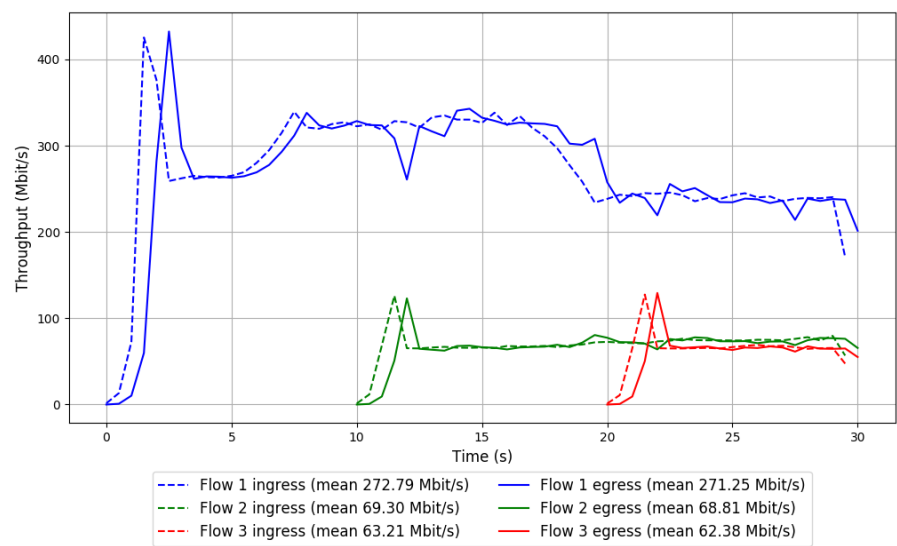


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 09:42:30
End at: 2018-06-06 09:43:00
Local clock offset: -0.107 ms
Remote clock offset: -0.237 ms

Below is generated by plot.py at 2018-06-06 11:20:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.55 Mbit/s
95th percentile per-packet one-way delay: 218.412 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 271.25 Mbit/s
95th percentile per-packet one-way delay: 218.903 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 68.81 Mbit/s
95th percentile per-packet one-way delay: 220.147 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 62.38 Mbit/s
95th percentile per-packet one-way delay: 183.302 ms
Loss rate: 1.32%

Run 10: Report of PCC-Allegro — Data Link

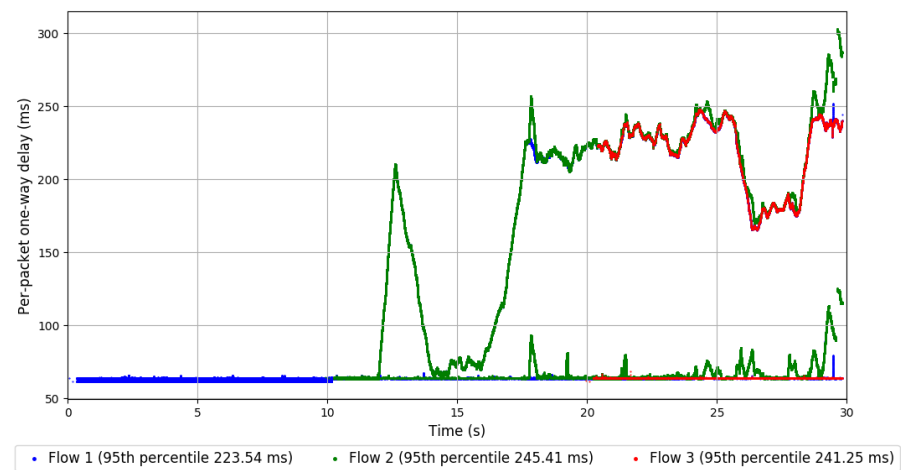
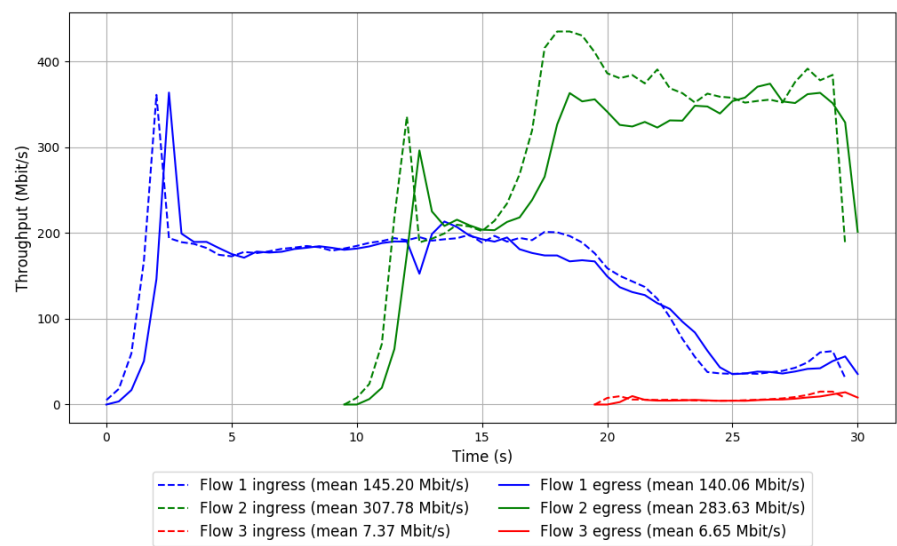


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 06:19:20
End at: 2018-06-06 06:19:50
Local clock offset: -0.075 ms
Remote clock offset: -0.37 ms

# Below is generated by plot.py at 2018-06-06 11:23:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 331.71 Mbit/s
95th percentile per-packet one-way delay: 238.398 ms
Loss rate: 6.08%
-- Flow 1:
Average throughput: 140.06 Mbit/s
95th percentile per-packet one-way delay: 223.540 ms
Loss rate: 3.52%
-- Flow 2:
Average throughput: 283.63 Mbit/s
95th percentile per-packet one-way delay: 245.405 ms
Loss rate: 7.84%
-- Flow 3:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 241.246 ms
Loss rate: 9.74%
```

Run 1: Report of PCC-Expr — Data Link

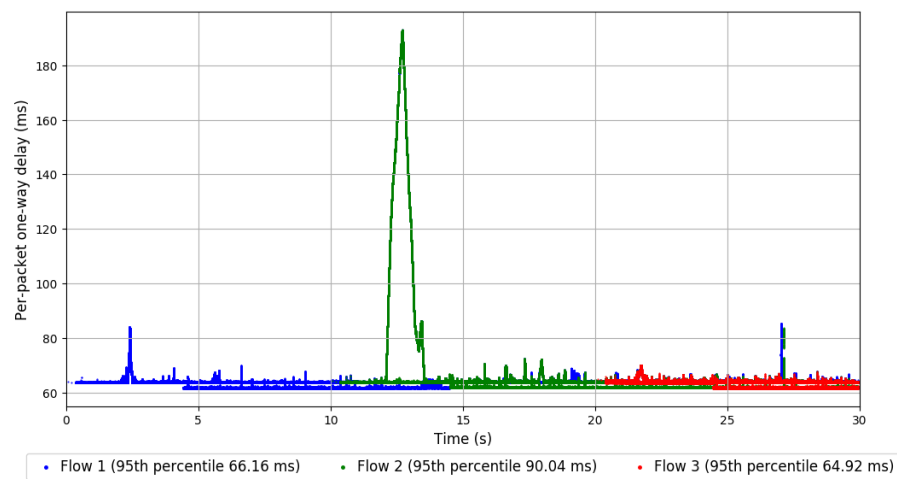
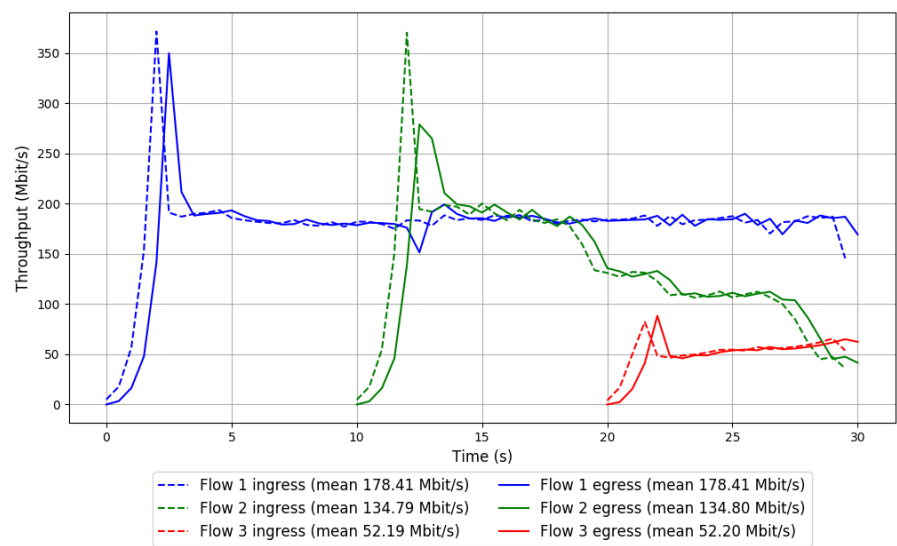


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 06:41:36
End at: 2018-06-06 06:42:06
Local clock offset: -0.089 ms
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2018-06-06 11:23:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 285.26 Mbit/s
95th percentile per-packet one-way delay: 67.799 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.41 Mbit/s
95th percentile per-packet one-way delay: 66.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.80 Mbit/s
95th percentile per-packet one-way delay: 90.040 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.20 Mbit/s
95th percentile per-packet one-way delay: 64.920 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 07:04:03

End at: 2018-06-06 07:04:33

Local clock offset: -0.077 ms

Remote clock offset: -0.65 ms

Below is generated by plot.py at 2018-06-06 11:24:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.54 Mbit/s

95th percentile per-packet one-way delay: 65.498 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.68 Mbit/s

95th percentile per-packet one-way delay: 64.747 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 109.87 Mbit/s

95th percentile per-packet one-way delay: 65.515 ms

Loss rate: 0.00%

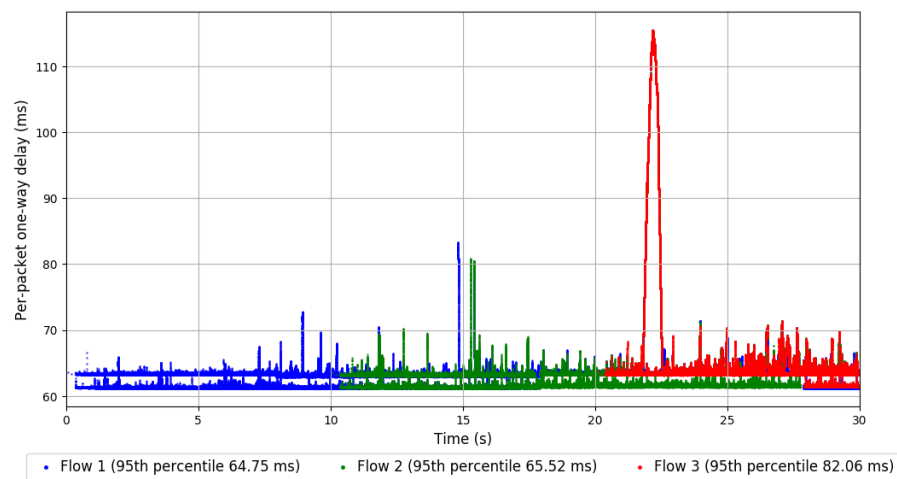
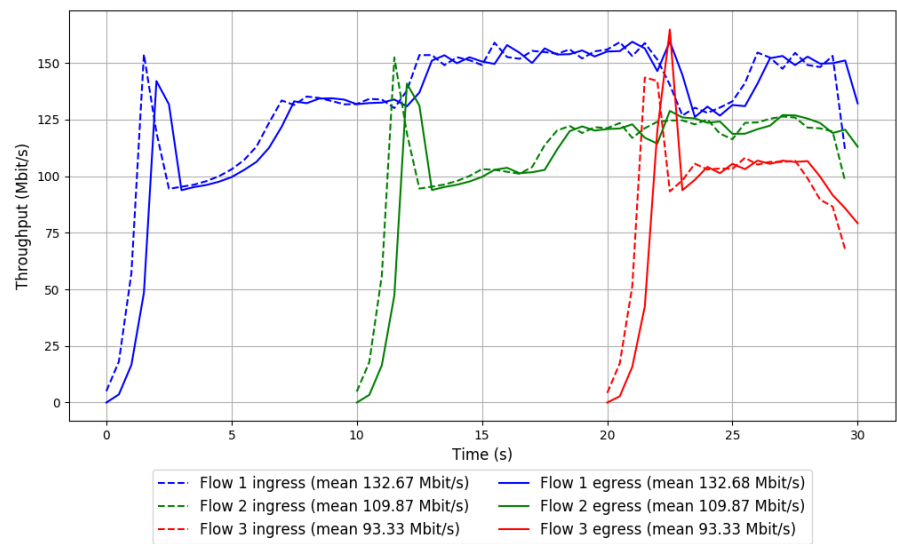
-- Flow 3:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 82.057 ms

Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

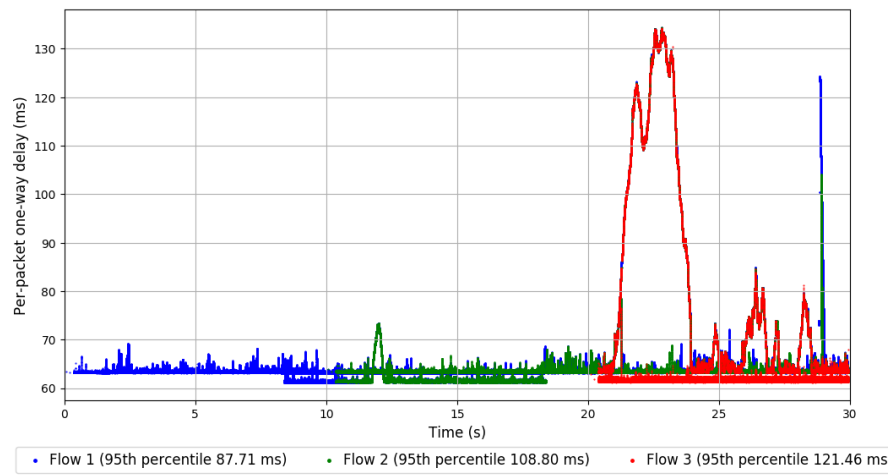
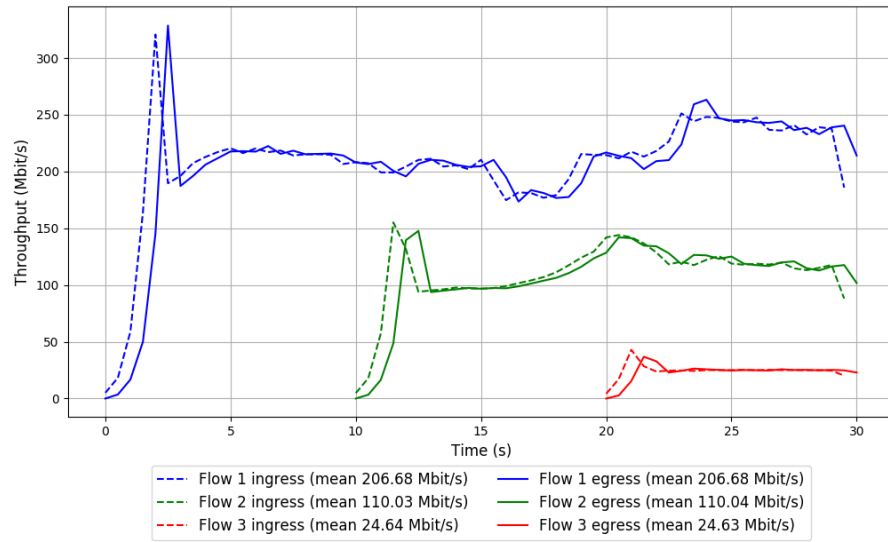


Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 07:26:32
End at: 2018-06-06 07:27:02
Local clock offset: -0.031 ms
Remote clock offset: -0.698 ms

Below is generated by plot.py at 2018-06-06 11:27:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.93 Mbit/s
95th percentile per-packet one-way delay: 97.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.68 Mbit/s
95th percentile per-packet one-way delay: 87.709 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 110.04 Mbit/s
95th percentile per-packet one-way delay: 108.799 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 121.458 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

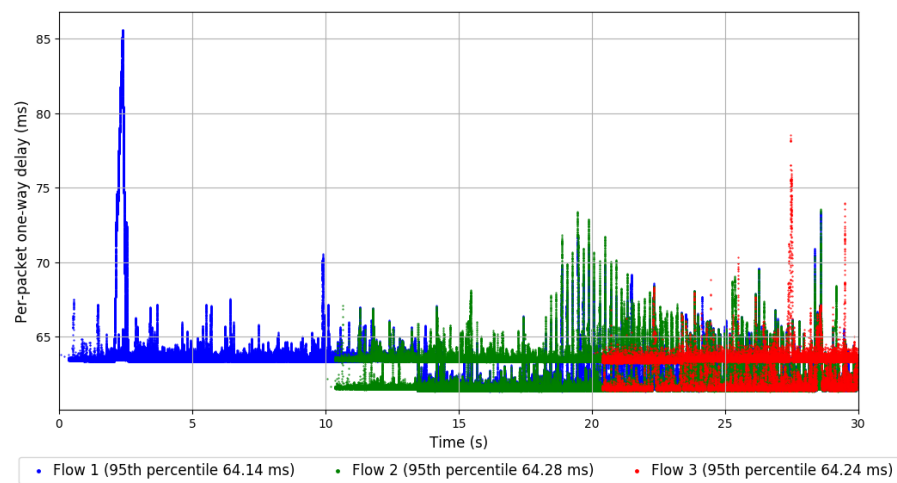
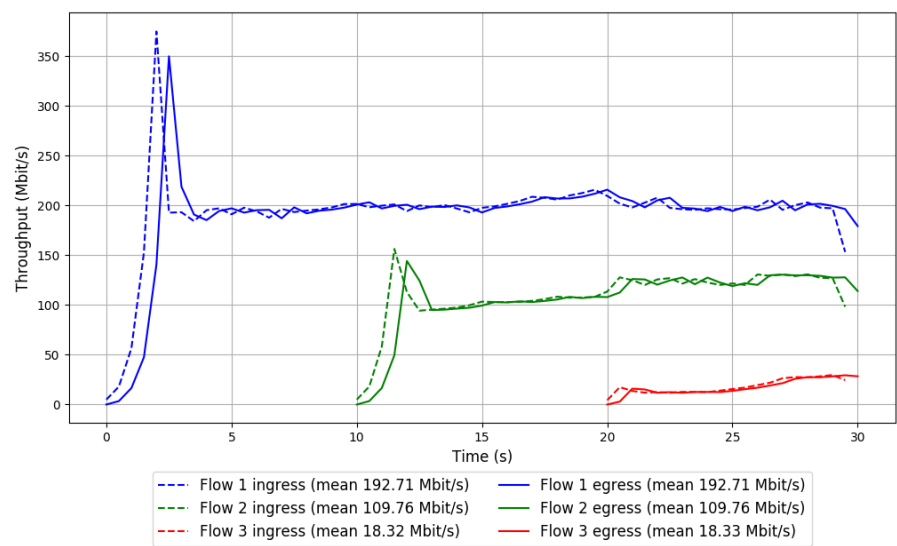


Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 07:48:47
End at: 2018-06-06 07:49:17
Local clock offset: -0.042 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-06-06 11:27:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 271.77 Mbit/s
95th percentile per-packet one-way delay: 64.177 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 192.71 Mbit/s
95th percentile per-packet one-way delay: 64.135 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 109.76 Mbit/s
95th percentile per-packet one-way delay: 64.279 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.33 Mbit/s
95th percentile per-packet one-way delay: 64.238 ms
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 08:11:08

End at: 2018-06-06 08:11:38

Local clock offset: -0.068 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-06-06 11:27:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 265.86 Mbit/s

95th percentile per-packet one-way delay: 65.285 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.60 Mbit/s

95th percentile per-packet one-way delay: 65.230 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.23 Mbit/s

95th percentile per-packet one-way delay: 65.022 ms

Loss rate: 0.00%

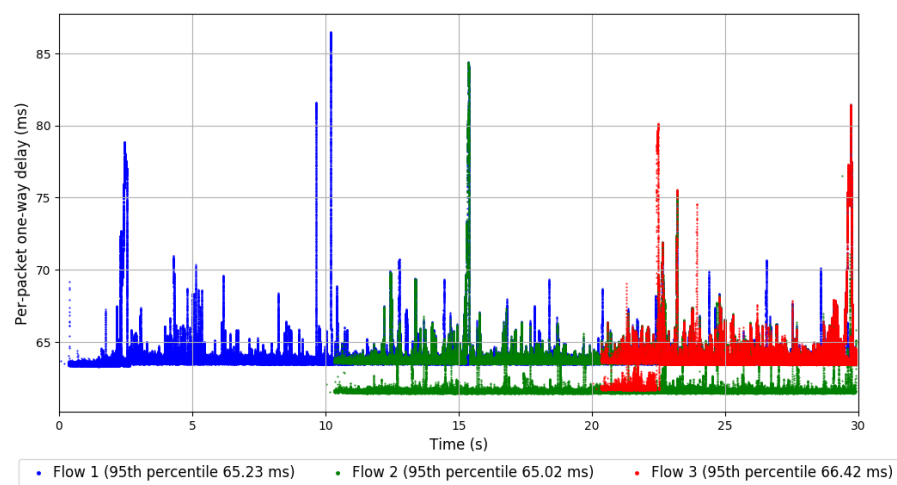
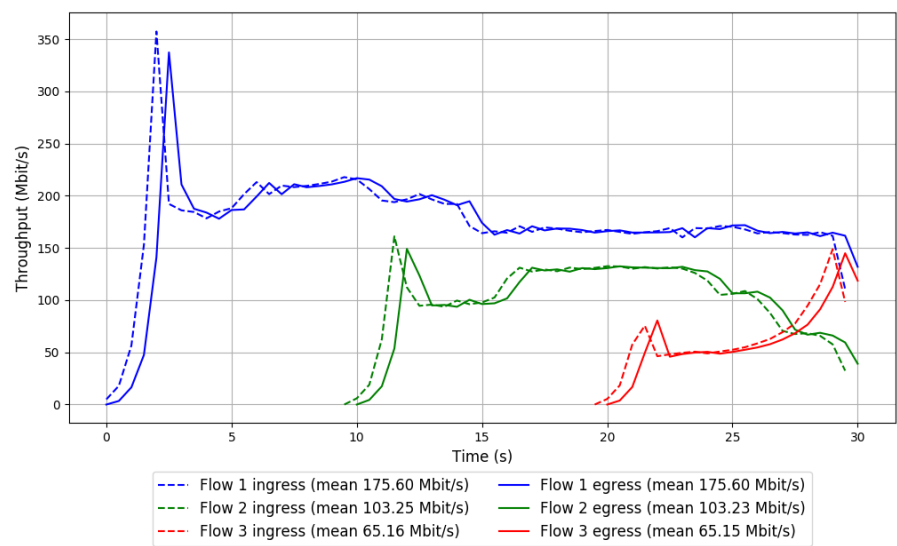
-- Flow 3:

Average throughput: 65.15 Mbit/s

95th percentile per-packet one-way delay: 66.416 ms

Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 08:33:33

End at: 2018-06-06 08:34:03

Local clock offset: -0.047 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-06-06 11:30:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 297.93 Mbit/s

95th percentile per-packet one-way delay: 70.147 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 210.10 Mbit/s

95th percentile per-packet one-way delay: 69.296 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 116.82 Mbit/s

95th percentile per-packet one-way delay: 71.118 ms

Loss rate: 0.00%

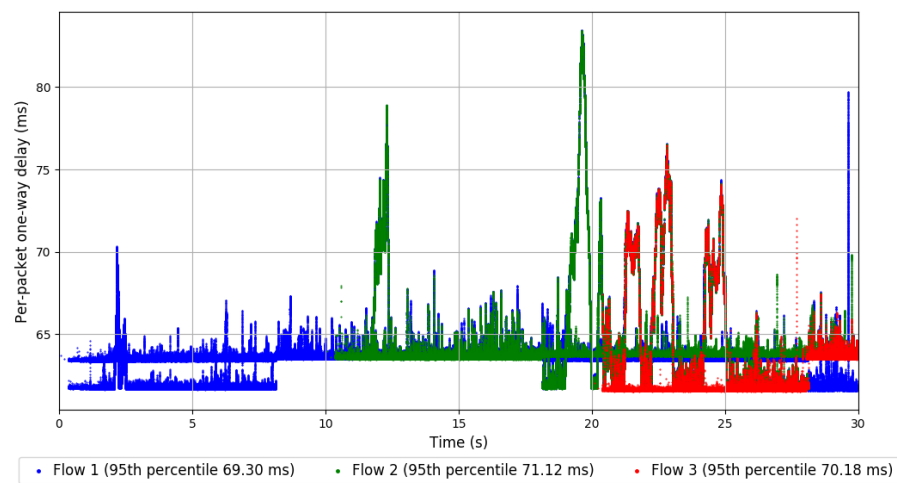
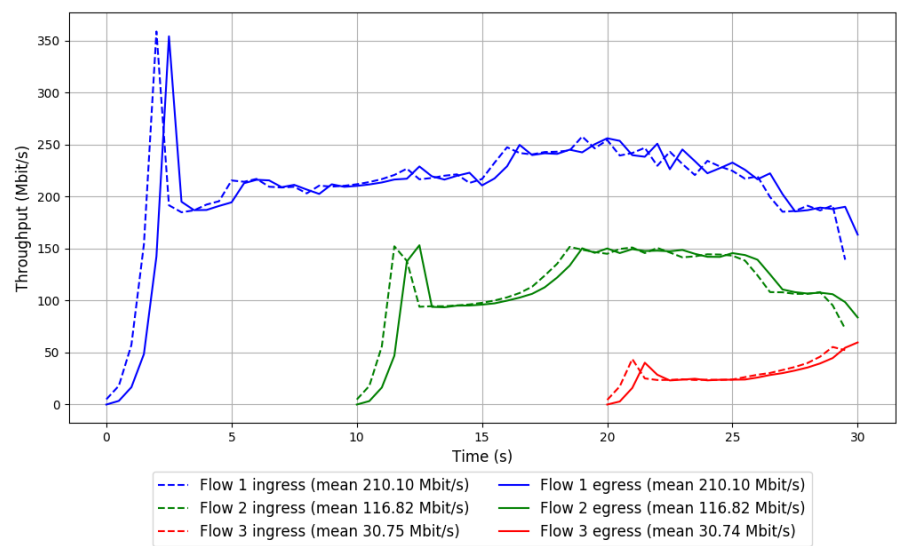
-- Flow 3:

Average throughput: 30.74 Mbit/s

95th percentile per-packet one-way delay: 70.181 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link

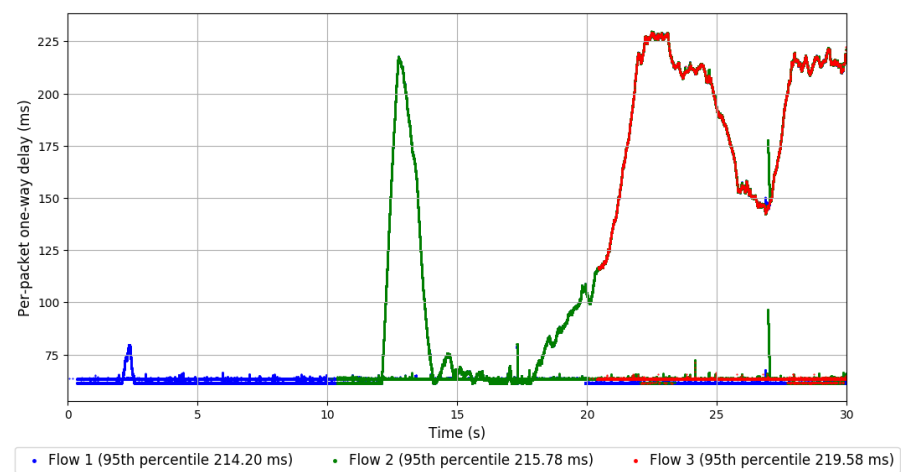
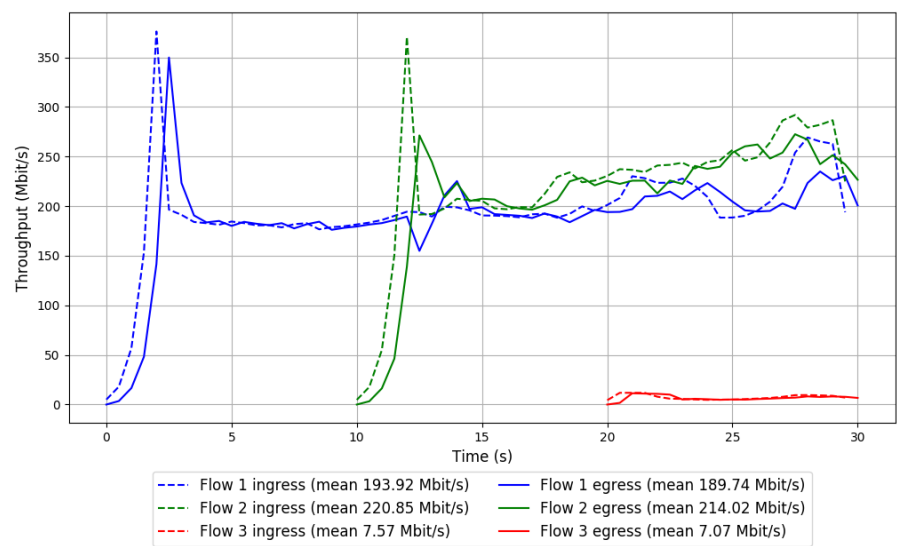


Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 08:56:01
End at: 2018-06-06 08:56:31
Local clock offset: -0.097 ms
Remote clock offset: -0.197 ms

Below is generated by plot.py at 2018-06-06 11:33:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.39 Mbit/s
95th percentile per-packet one-way delay: 215.033 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 189.74 Mbit/s
95th percentile per-packet one-way delay: 214.200 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 214.02 Mbit/s
95th percentile per-packet one-way delay: 215.784 ms
Loss rate: 3.09%
-- Flow 3:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 219.576 ms
Loss rate: 6.53%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 09:18:34

End at: 2018-06-06 09:19:04

Local clock offset: -0.119 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-06 11:33:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 225.35 Mbit/s

95th percentile per-packet one-way delay: 67.787 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 133.95 Mbit/s

95th percentile per-packet one-way delay: 67.701 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 109.72 Mbit/s

95th percentile per-packet one-way delay: 66.789 ms

Loss rate: 0.07%

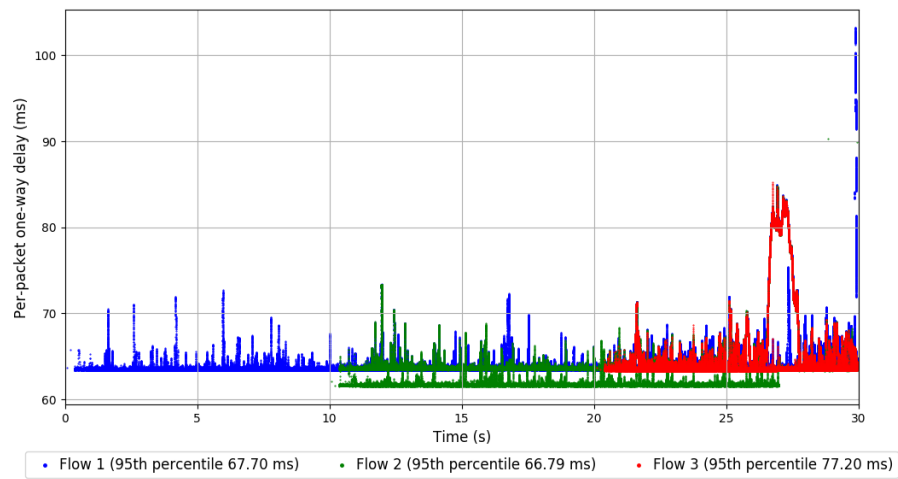
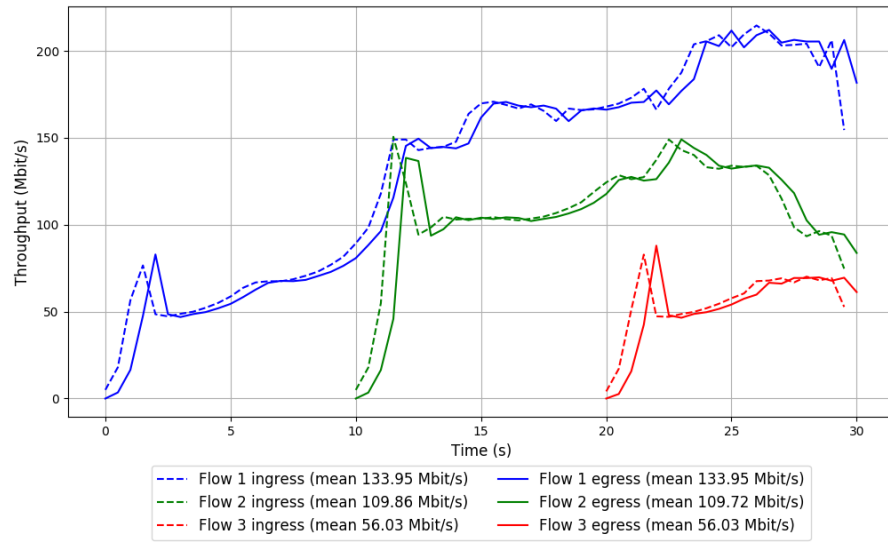
-- Flow 3:

Average throughput: 56.03 Mbit/s

95th percentile per-packet one-way delay: 77.198 ms

Loss rate: 0.02%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 09:40:55

End at: 2018-06-06 09:41:25

Local clock offset: -0.13 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-06 11:34:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.47 Mbit/s

95th percentile per-packet one-way delay: 72.564 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 230.29 Mbit/s

95th percentile per-packet one-way delay: 70.828 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 102.31 Mbit/s

95th percentile per-packet one-way delay: 76.484 ms

Loss rate: 0.00%

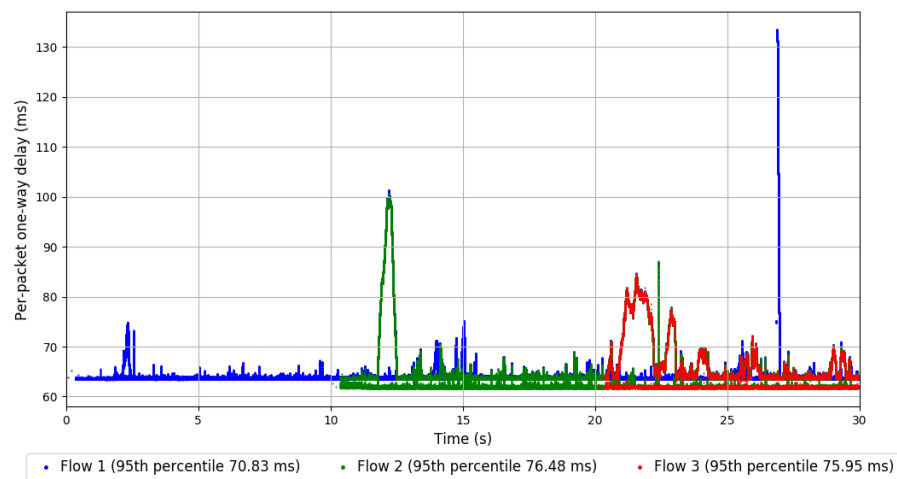
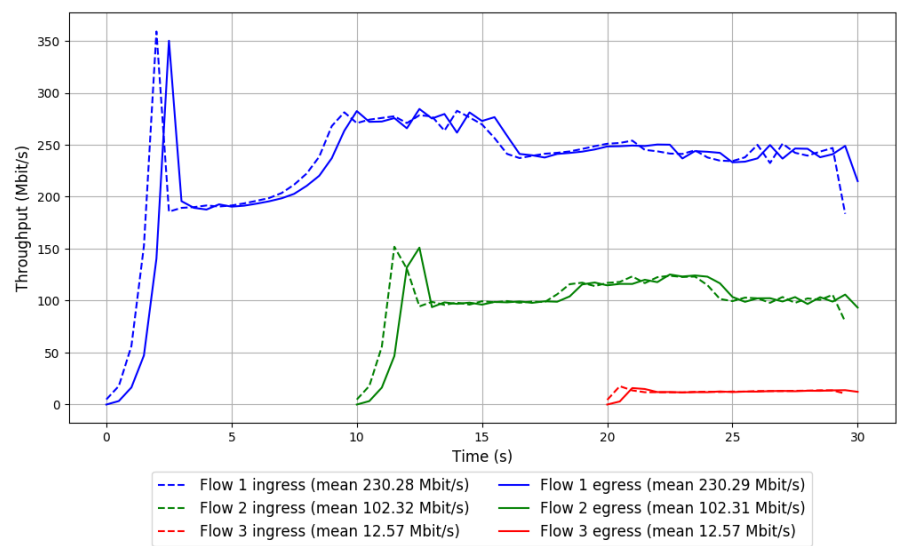
-- Flow 3:

Average throughput: 12.57 Mbit/s

95th percentile per-packet one-way delay: 75.955 ms

Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link

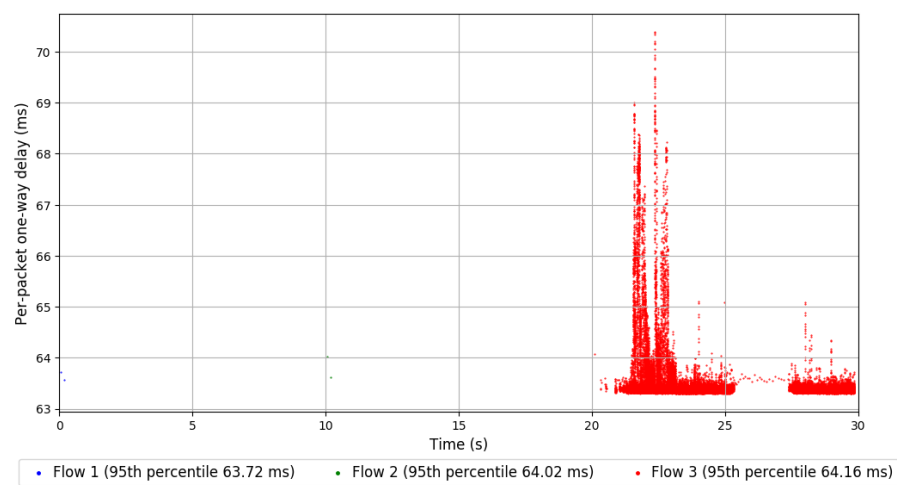
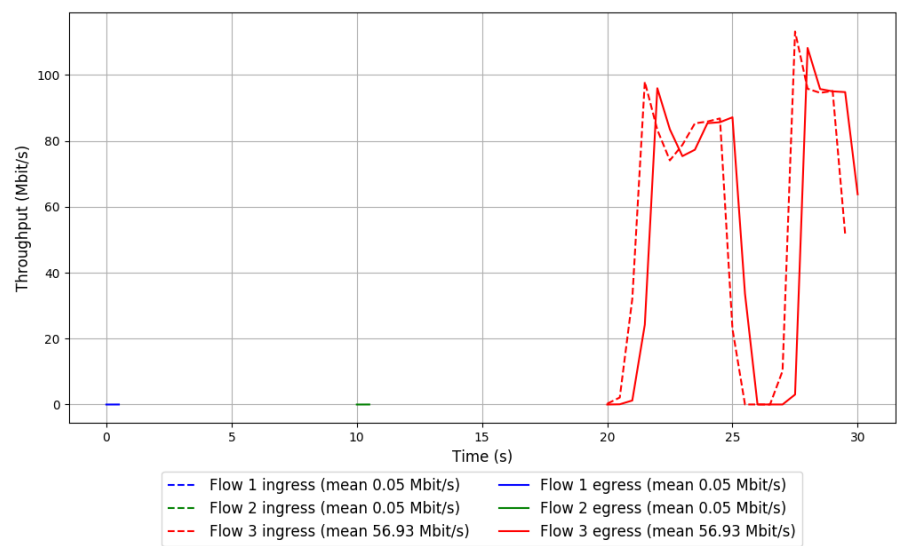


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 06:15:31
End at: 2018-06-06 06:16:01
Local clock offset: -0.066 ms
Remote clock offset: -0.333 ms

Below is generated by plot.py at 2018-06-06 11:34:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 18.65 Mbit/s
95th percentile per-packet one-way delay: 64.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.720 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 64.024 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 64.162 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

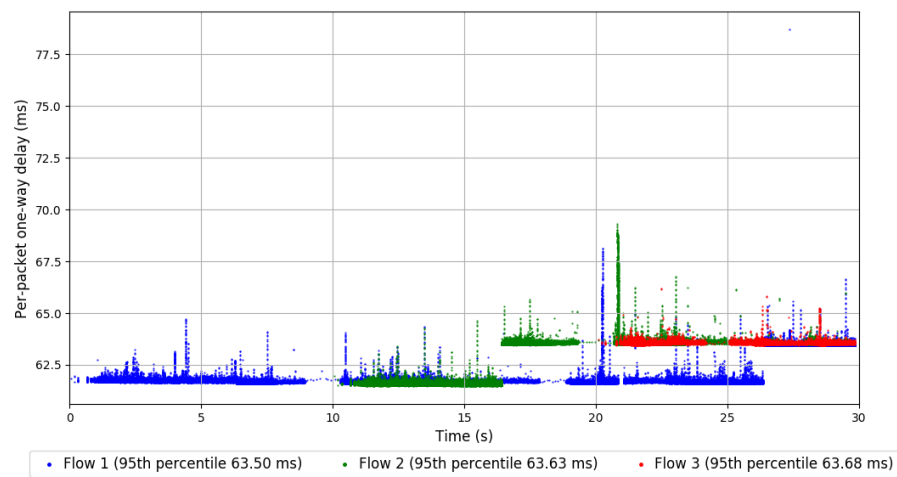
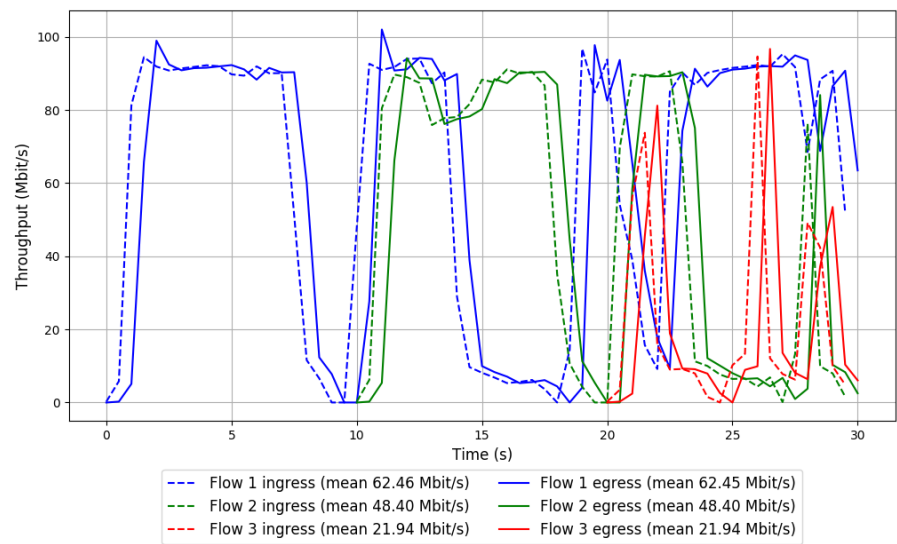


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 06:37:44
End at: 2018-06-06 06:38:14
Local clock offset: -0.098 ms
Remote clock offset: -0.334 ms

Below is generated by plot.py at 2018-06-06 11:34:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 101.64 Mbit/s
95th percentile per-packet one-way delay: 63.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.45 Mbit/s
95th percentile per-packet one-way delay: 63.500 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.40 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 21.94 Mbit/s
95th percentile per-packet one-way delay: 63.682 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

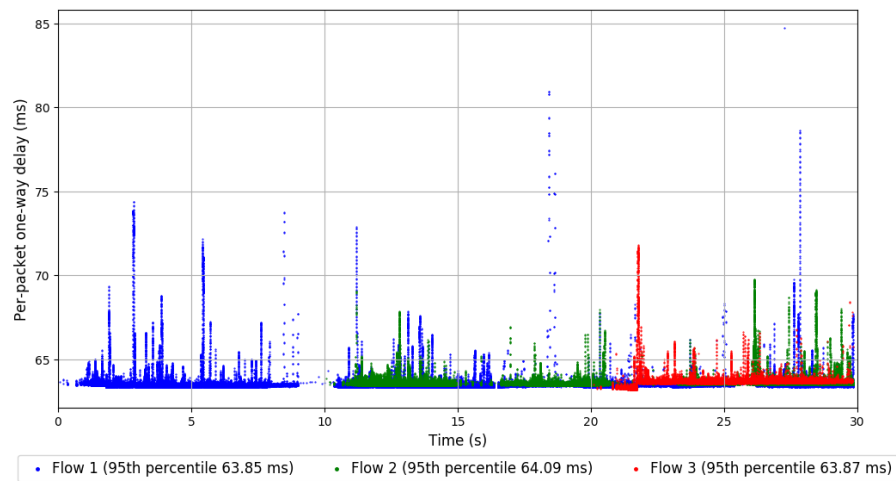
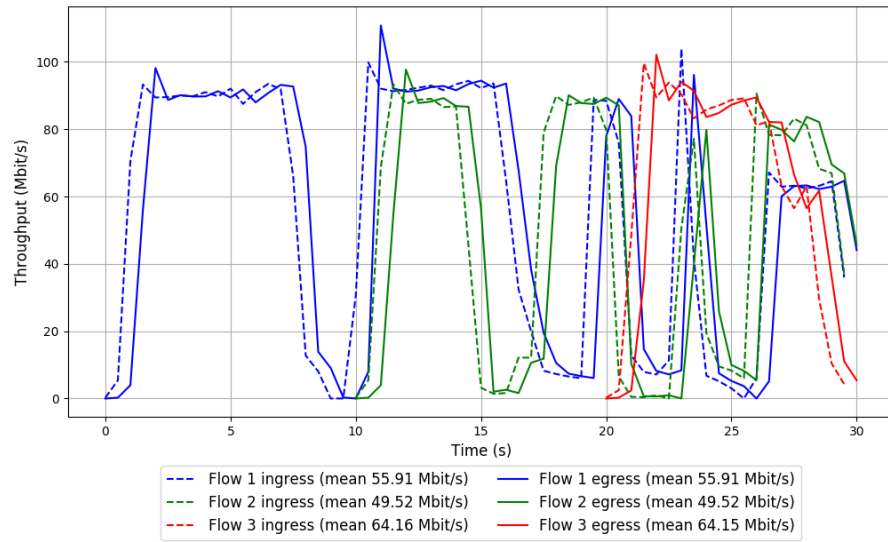


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 07:00:09
End at: 2018-06-06 07:00:39
Local clock offset: -0.051 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-06-06 11:34:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.76 Mbit/s
95th percentile per-packet one-way delay: 63.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 49.52 Mbit/s
95th percentile per-packet one-way delay: 64.095 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 64.15 Mbit/s
95th percentile per-packet one-way delay: 63.874 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

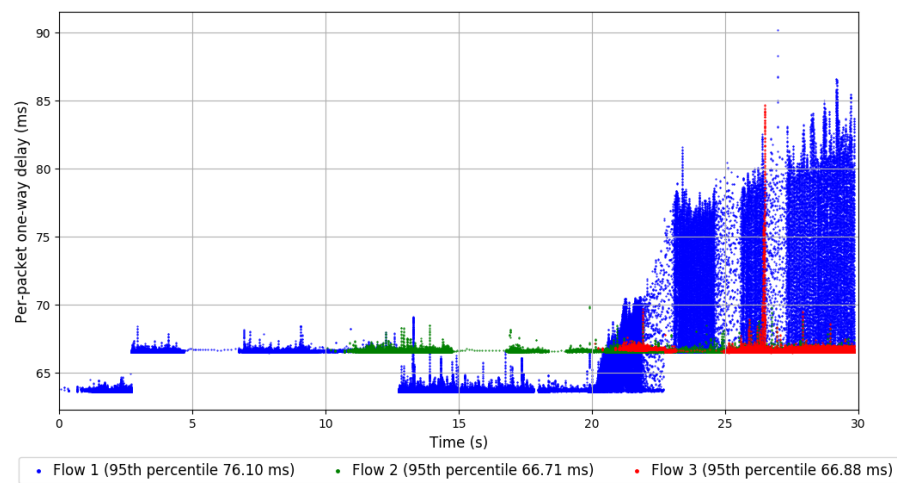
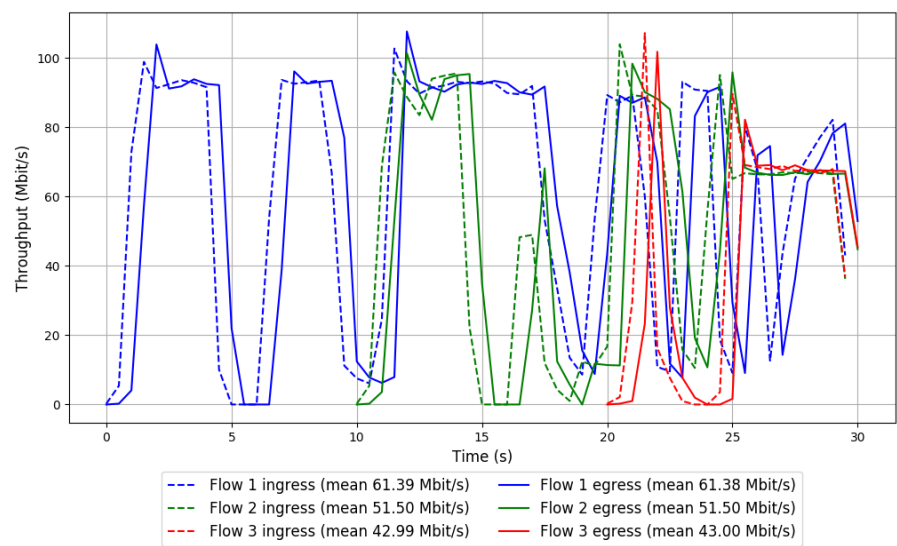


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 07:22:38
End at: 2018-06-06 07:23:08
Local clock offset: -0.024 ms
Remote clock offset: -0.308 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 109.63 Mbit/s
95th percentile per-packet one-way delay: 73.494 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 61.38 Mbit/s
95th percentile per-packet one-way delay: 76.098 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 51.50 Mbit/s
95th percentile per-packet one-way delay: 66.706 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 43.00 Mbit/s
95th percentile per-packet one-way delay: 66.883 ms
Loss rate: 0.04%

Run 4: Report of QUIC Cubic — Data Link

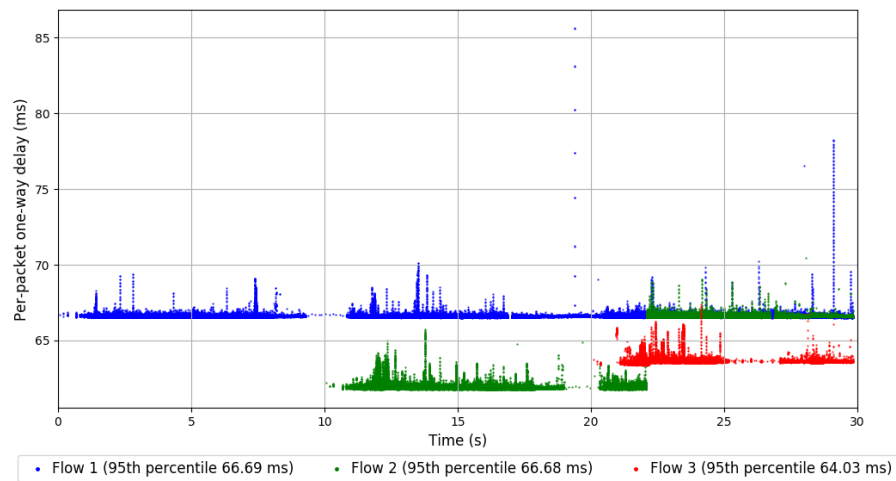
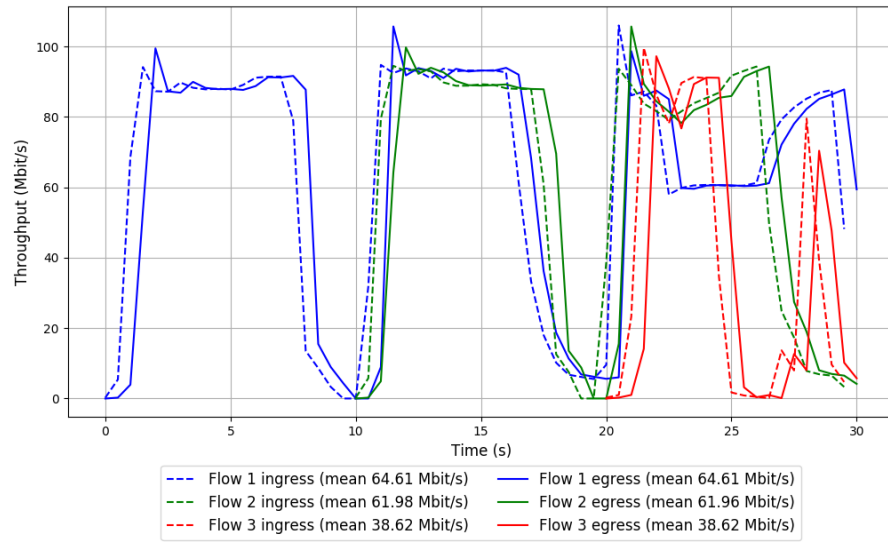


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 07:44:58
End at: 2018-06-06 07:45:28
Local clock offset: 0.009 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 118.41 Mbit/s
95th percentile per-packet one-way delay: 66.677 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 64.61 Mbit/s
95th percentile per-packet one-way delay: 66.692 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 61.96 Mbit/s
95th percentile per-packet one-way delay: 66.676 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 38.62 Mbit/s
95th percentile per-packet one-way delay: 64.025 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

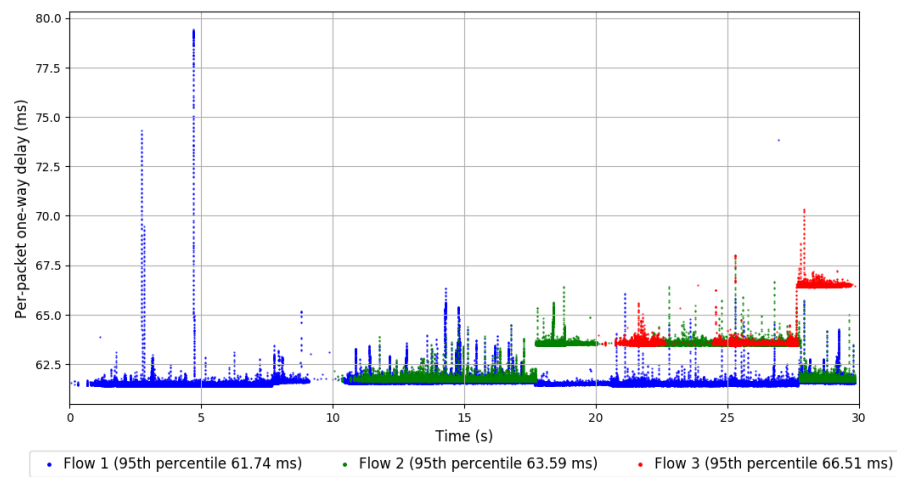
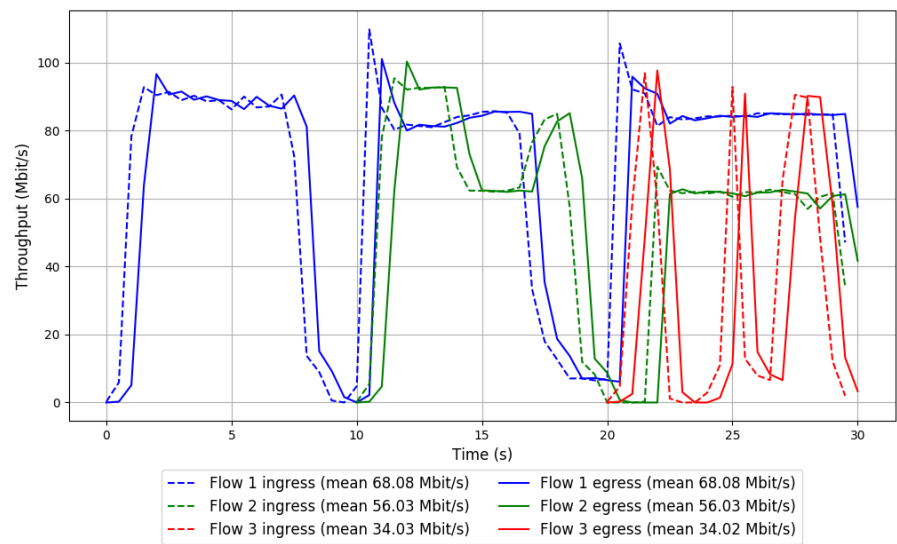


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 08:07:13
End at: 2018-06-06 08:07:43
Local clock offset: -0.039 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 116.40 Mbit/s
95th percentile per-packet one-way delay: 63.630 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.08 Mbit/s
95th percentile per-packet one-way delay: 61.737 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 63.595 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 34.02 Mbit/s
95th percentile per-packet one-way delay: 66.512 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 08:29:39

End at: 2018-06-06 08:30:09

Local clock offset: -0.067 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2018-06-06 11:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.18 Mbit/s

95th percentile per-packet one-way delay: 63.717 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.58 Mbit/s

95th percentile per-packet one-way delay: 63.645 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 62.05 Mbit/s

95th percentile per-packet one-way delay: 63.811 ms

Loss rate: 0.00%

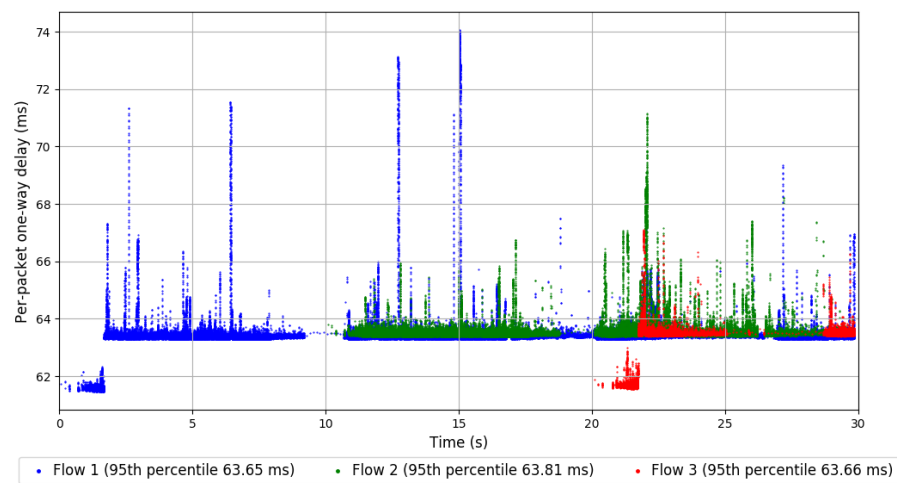
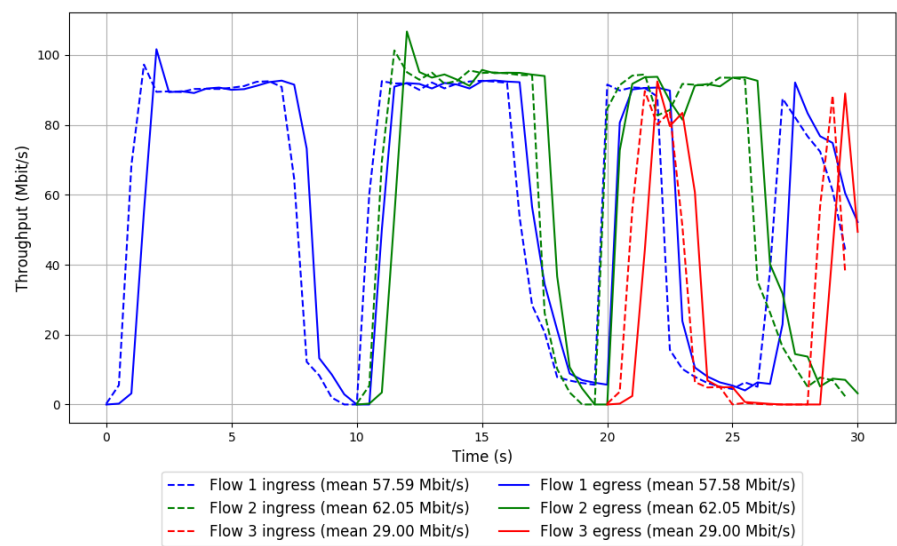
-- Flow 3:

Average throughput: 29.00 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 08:52:09

End at: 2018-06-06 08:52:39

Local clock offset: -0.04 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-06-06 11:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 105.79 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 50.97 Mbit/s

95th percentile per-packet one-way delay: 63.613 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 51.32 Mbit/s

95th percentile per-packet one-way delay: 61.716 ms

Loss rate: 0.00%

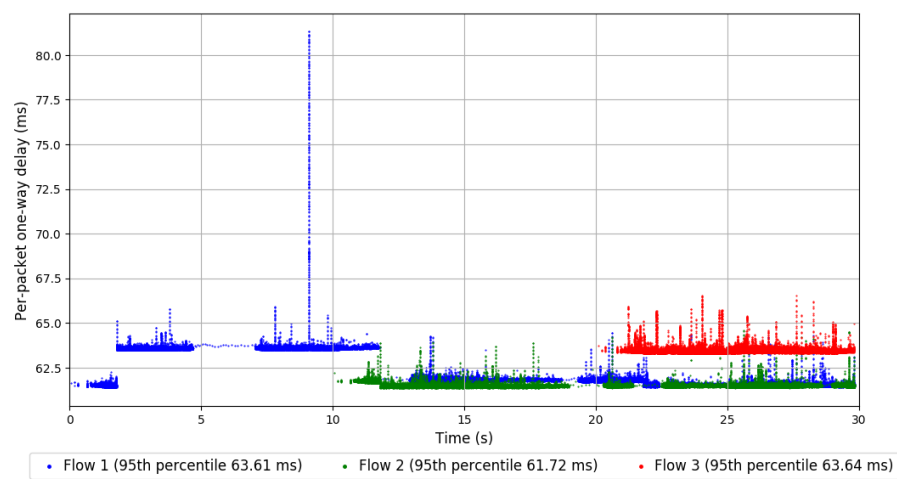
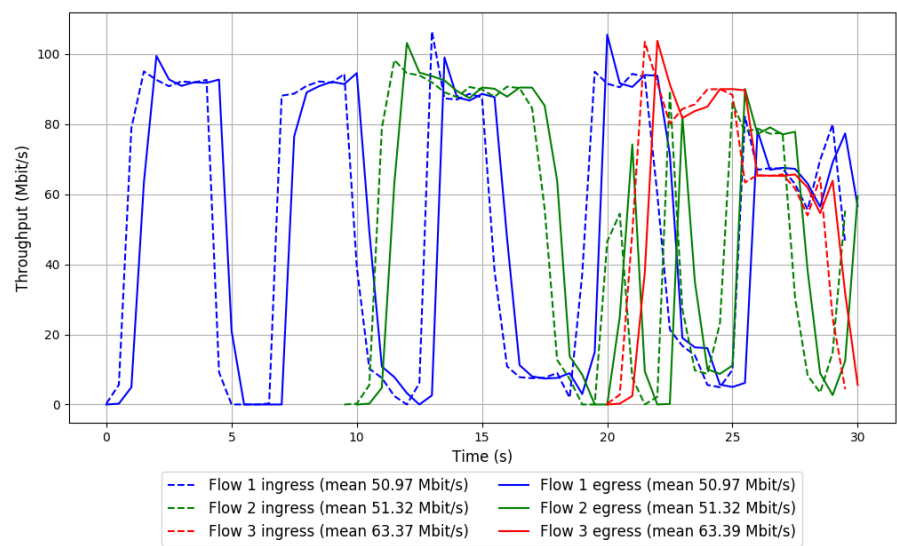
-- Flow 3:

Average throughput: 63.39 Mbit/s

95th percentile per-packet one-way delay: 63.642 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

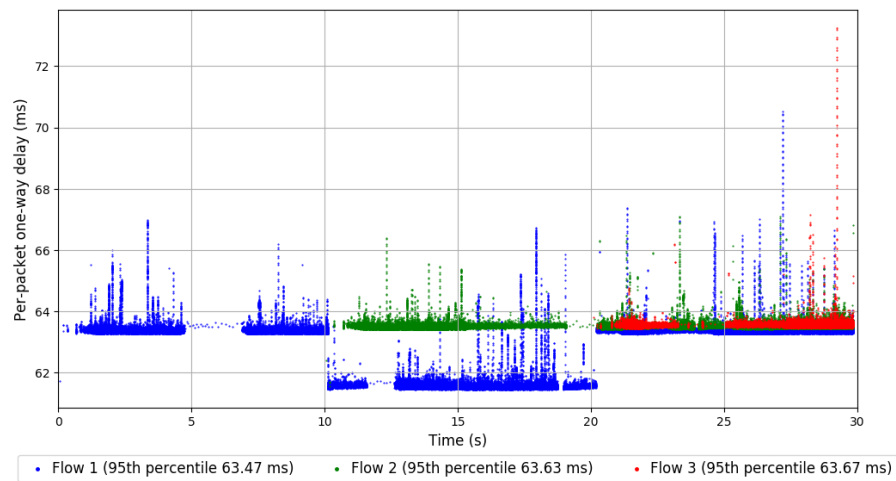
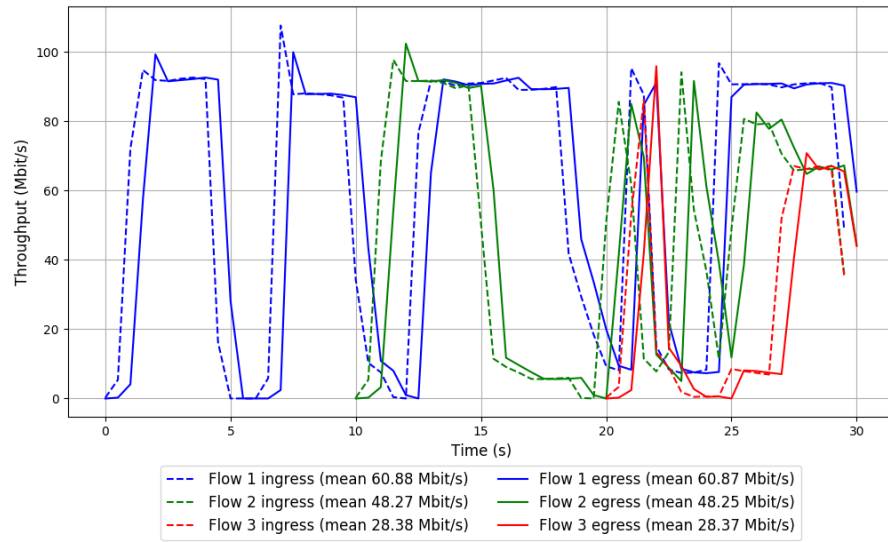


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 09:14:40
End at: 2018-06-06 09:15:10
Local clock offset: -0.125 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 102.20 Mbit/s
95th percentile per-packet one-way delay: 63.606 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 63.472 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 48.25 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.03%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 09:37:00

End at: 2018-06-06 09:37:30

Local clock offset: -0.115 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-06-06 11:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 120.45 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.37 Mbit/s

95th percentile per-packet one-way delay: 63.776 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 41.10 Mbit/s

95th percentile per-packet one-way delay: 63.822 ms

Loss rate: 0.01%

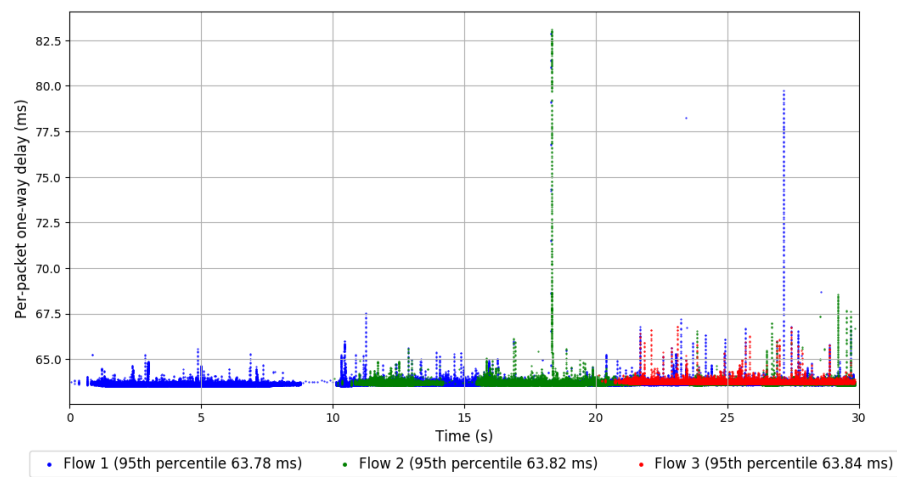
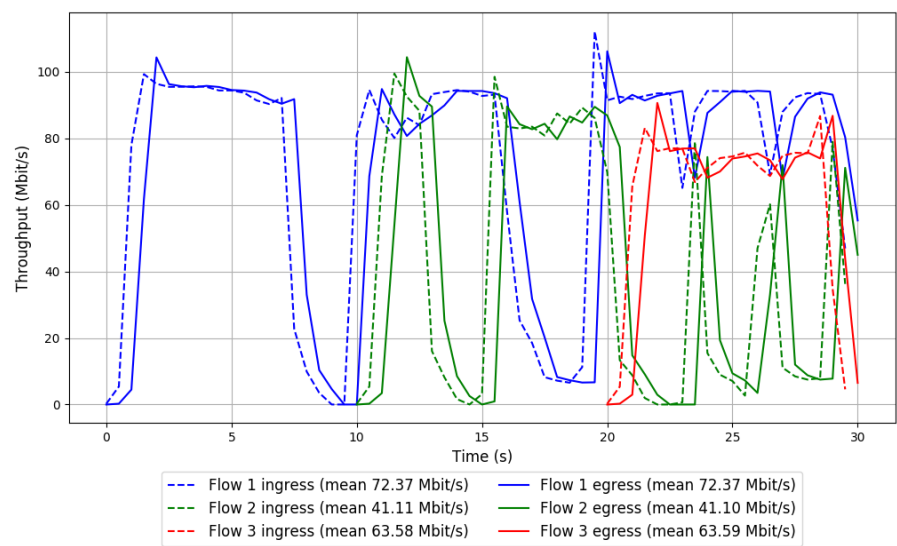
-- Flow 3:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 63.845 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

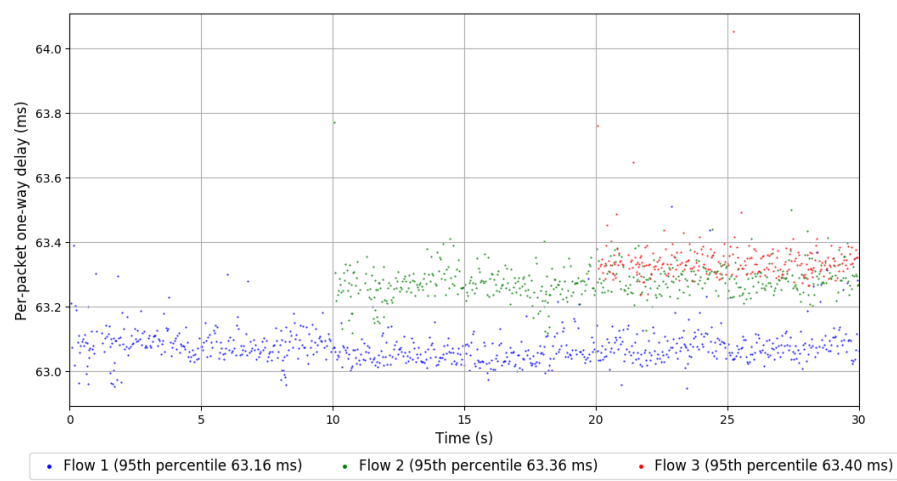
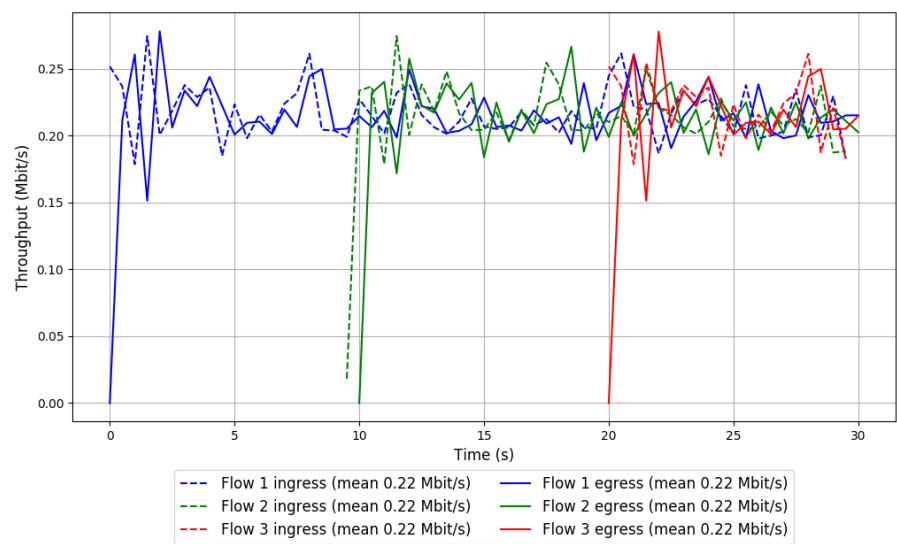


```
Run 1: Statistics of SCReAM

Start at: 2018-06-06 06:31:40
End at: 2018-06-06 06:32:10
Local clock offset: -0.07 ms
Remote clock offset: -0.692 ms

# Below is generated by plot.py at 2018-06-06 11:34:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.160 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.357 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.395 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

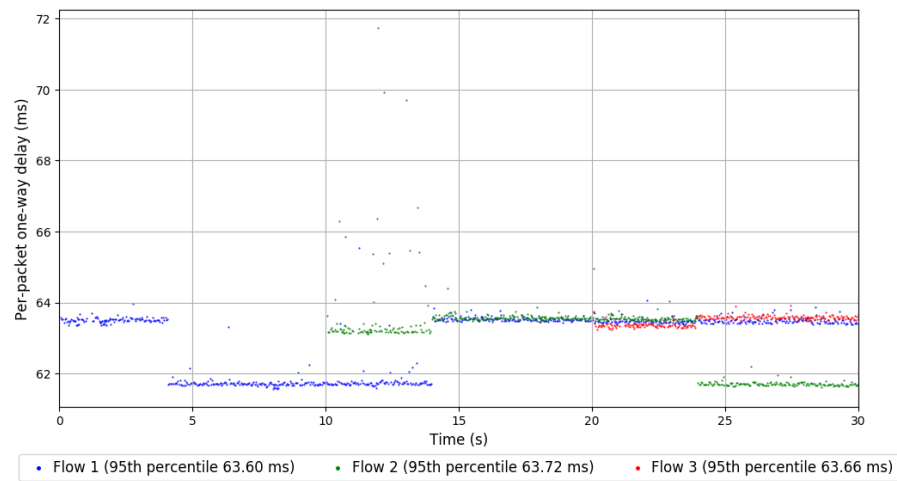
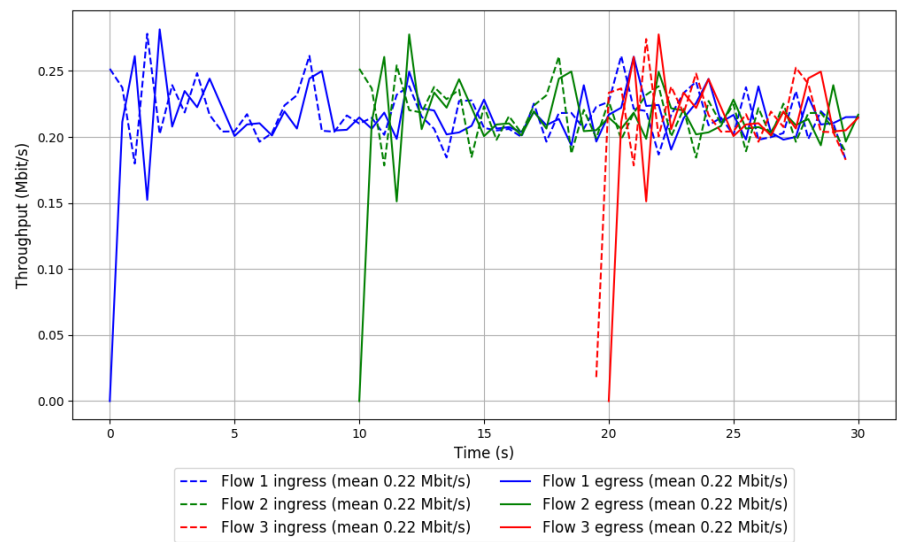


Run 2: Statistics of SReAM

Start at: 2018-06-06 06:54:07
End at: 2018-06-06 06:54:37
Local clock offset: -0.103 ms
Remote clock offset: -0.523 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.648 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.601 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.721 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.661 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

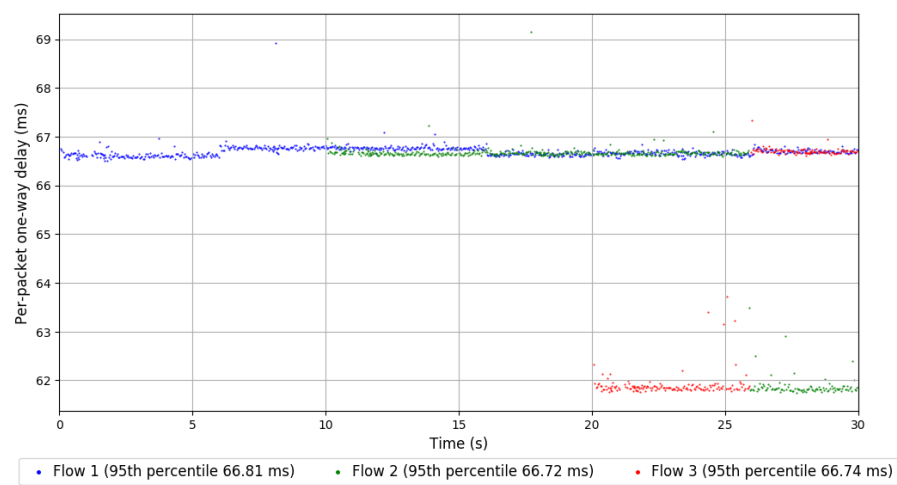
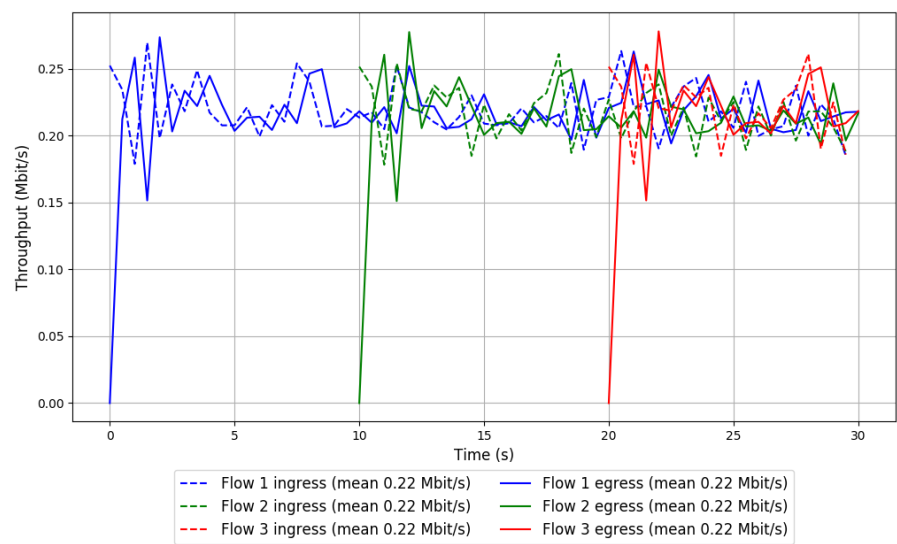


Run 3: Statistics of SReAM

Start at: 2018-06-06 07:16:35
End at: 2018-06-06 07:17:05
Local clock offset: -0.044 ms
Remote clock offset: -0.441 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.807 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.723 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.741 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

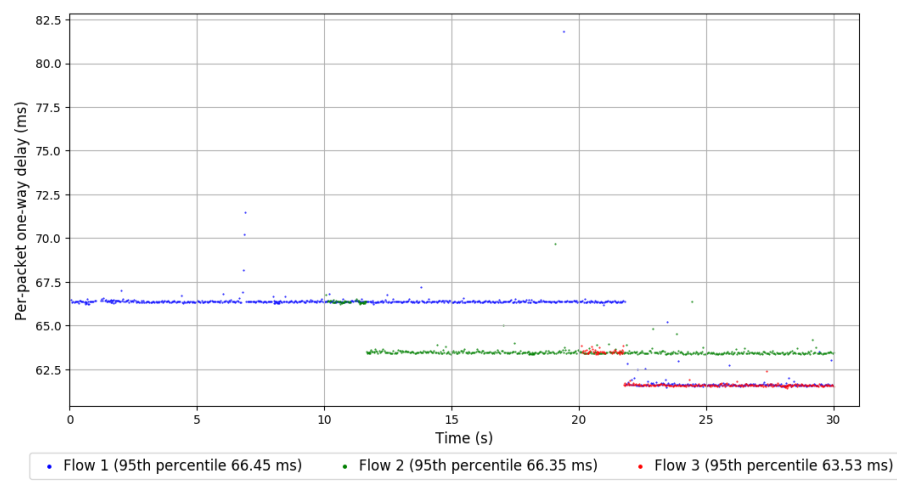
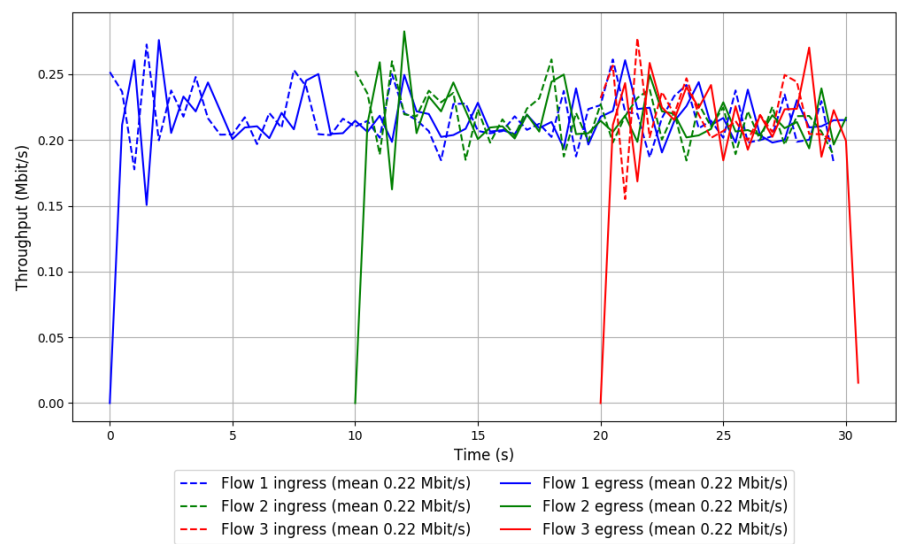


Run 4: Statistics of SReAM

Start at: 2018-06-06 07:38:59
End at: 2018-06-06 07:39:29
Local clock offset: 0.026 ms
Remote clock offset: -0.712 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.453 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.352 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.535 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

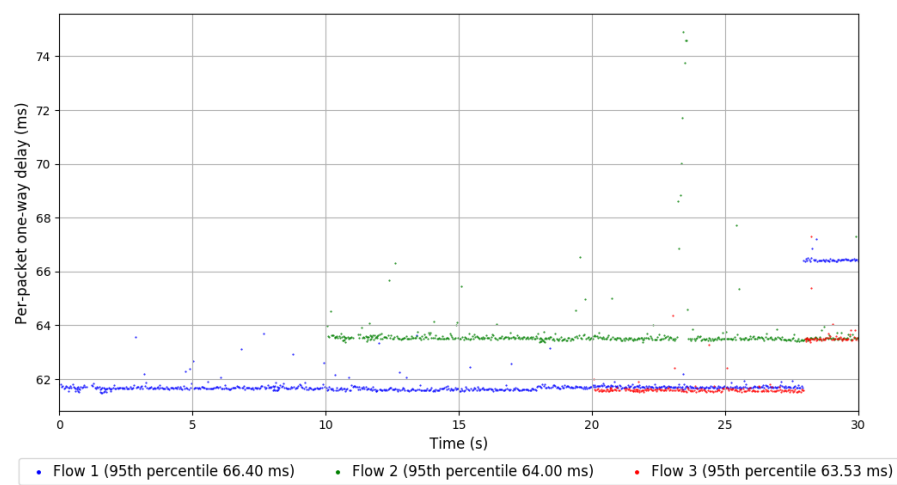
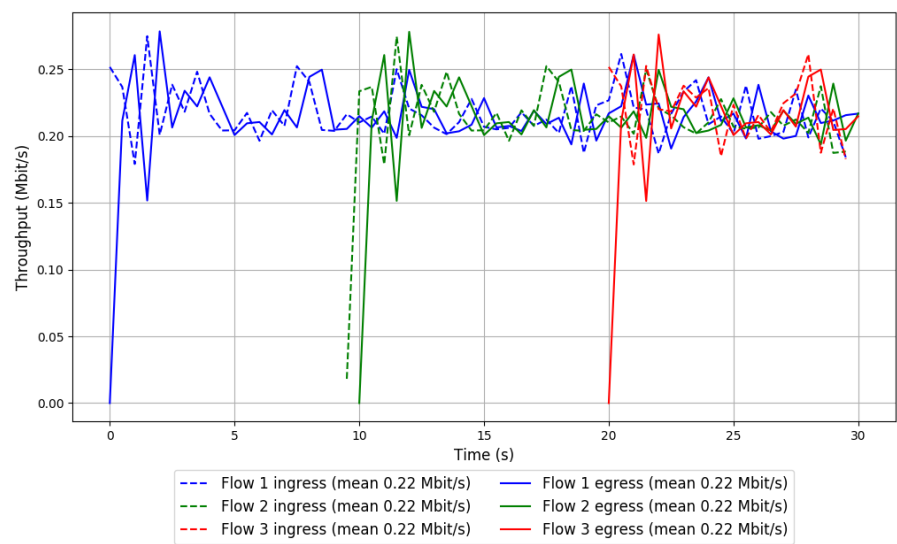


Run 5: Statistics of SReAM

Start at: 2018-06-06 08:01:13
End at: 2018-06-06 08:01:43
Local clock offset: -0.068 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 64.093 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.400 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.535 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-06 08:23:36

End at: 2018-06-06 08:24:06

Local clock offset: -0.013 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-06-06 11:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.624 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.756 ms

Loss rate: 0.00%

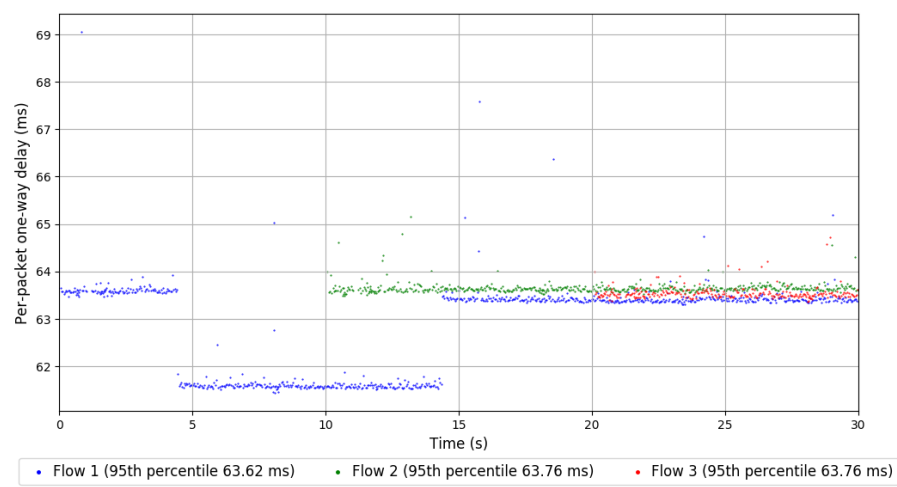
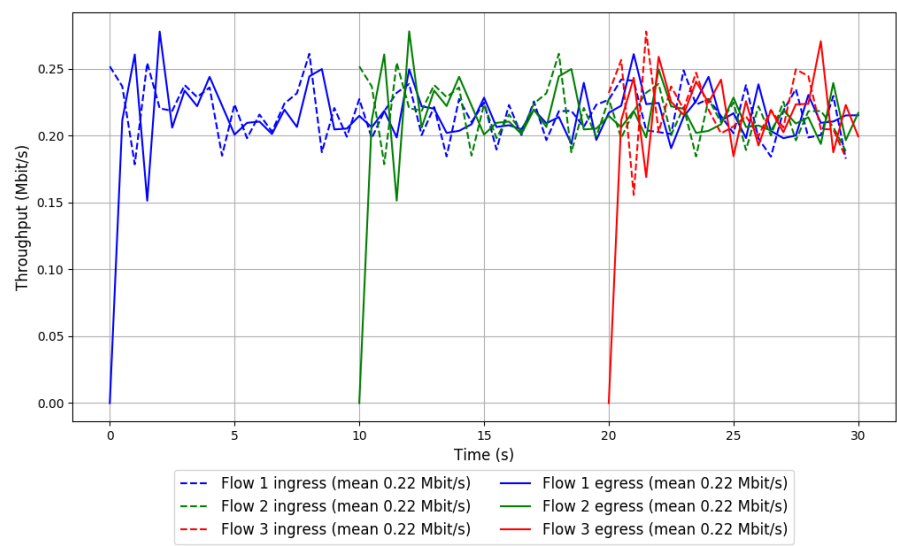
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.764 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

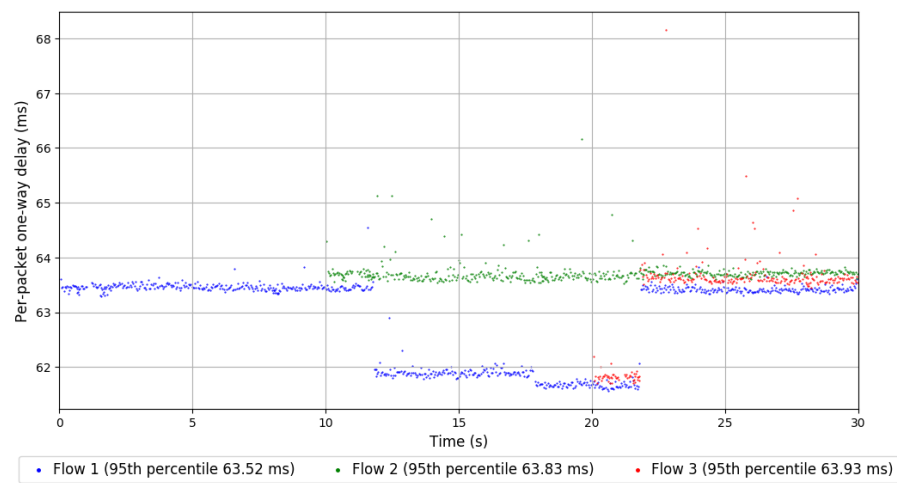
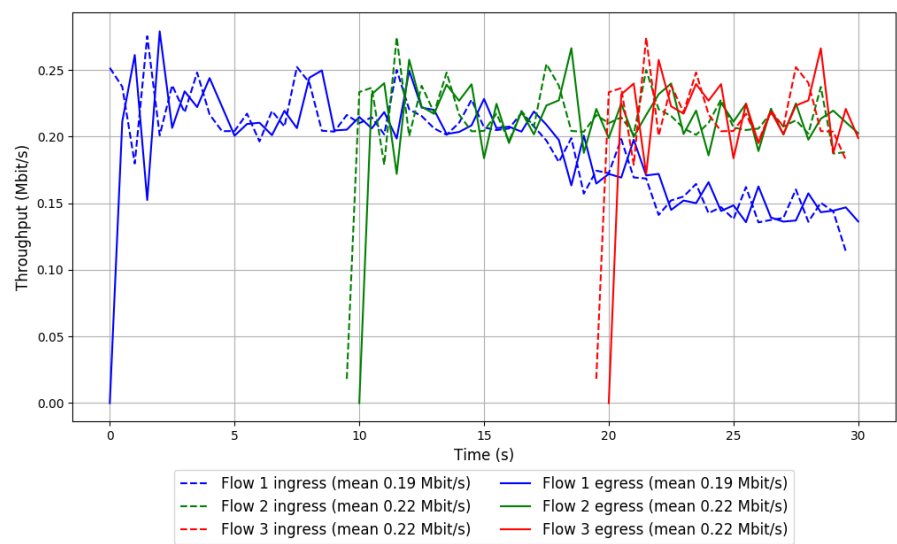


Run 7: Statistics of SReAM

Start at: 2018-06-06 08:46:09
End at: 2018-06-06 08:46:39
Local clock offset: -0.018 ms
Remote clock offset: 0.21 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 63.779 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 63.525 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.832 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.929 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

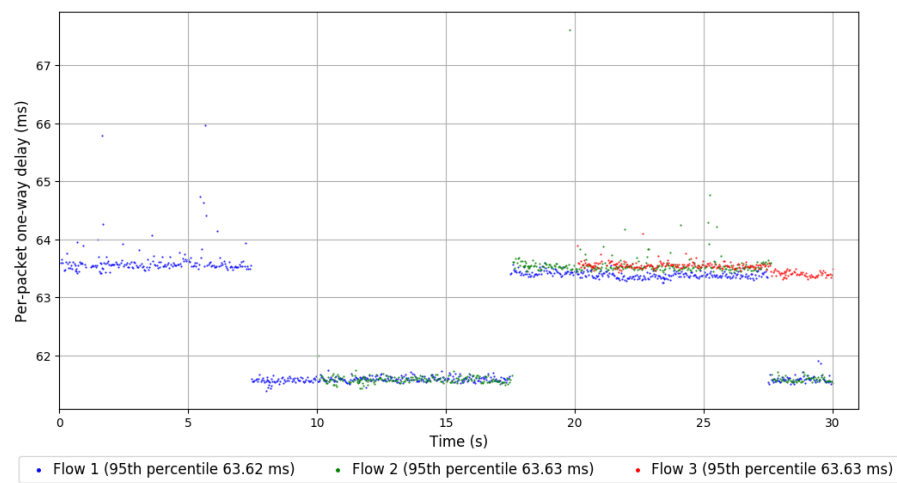
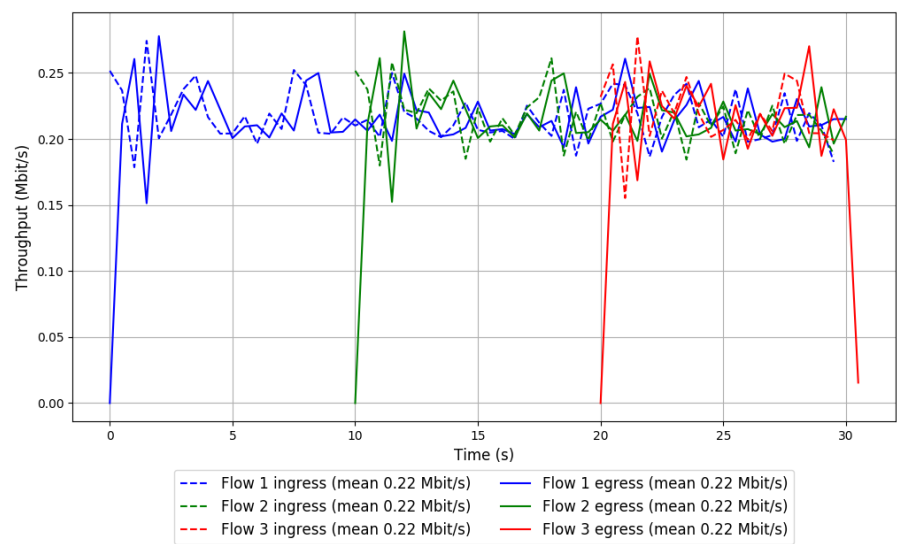


Run 8: Statistics of SReAM

Start at: 2018-06-06 09:08:33
End at: 2018-06-06 09:09:03
Local clock offset: -0.097 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.628 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.623 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.630 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.628 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-06 09:30:55

End at: 2018-06-06 09:31:25

Local clock offset: -0.106 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-06 11:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 63.805 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.768 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.833 ms

Loss rate: 0.00%

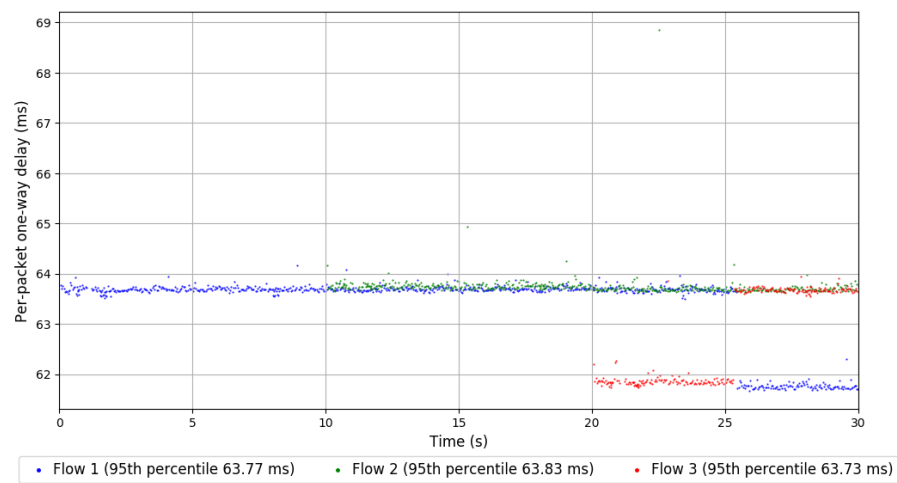
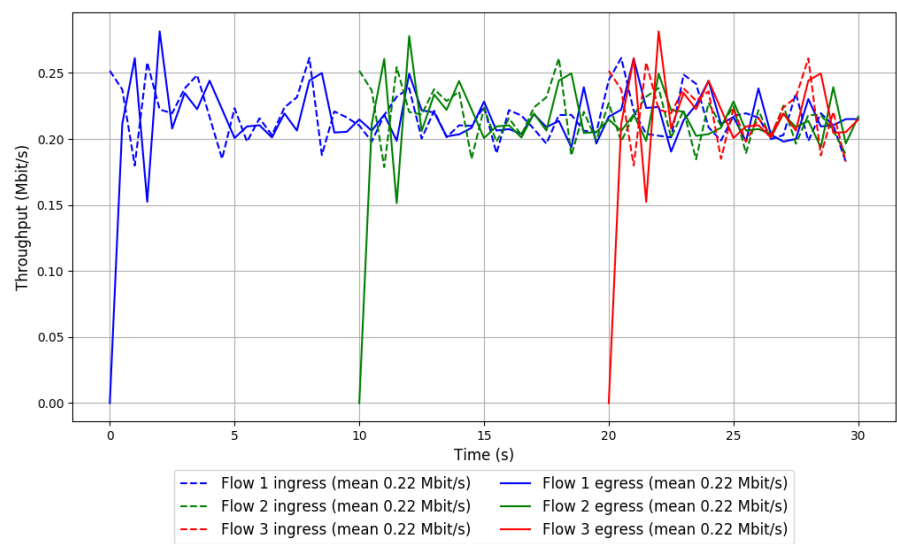
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.730 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

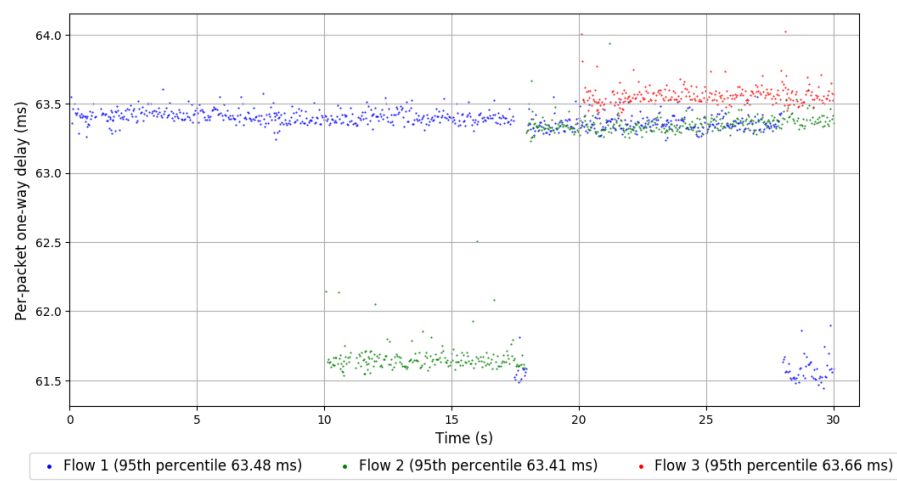
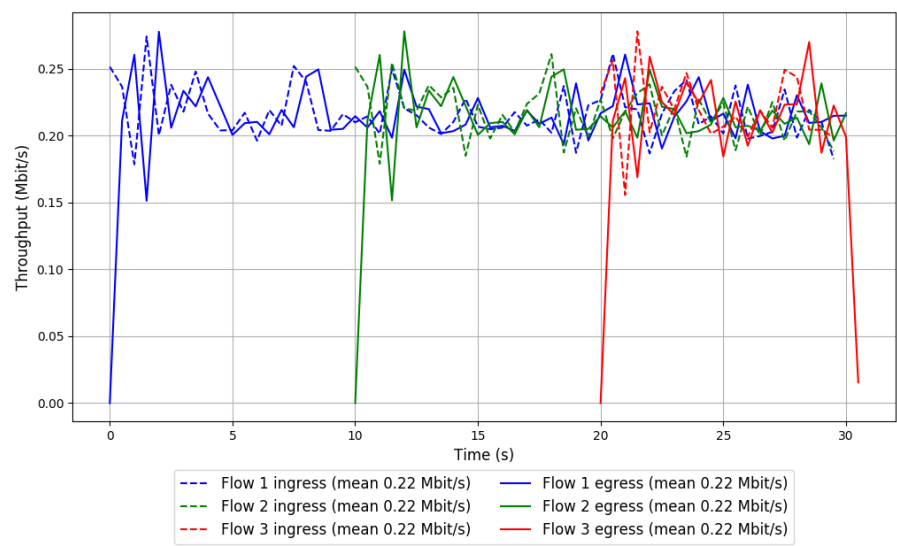


Run 10: Statistics of SReAM

Start at: 2018-06-06 09:53:33
End at: 2018-06-06 09:54:03
Local clock offset: -0.131 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 63.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.485 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.415 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.662 ms
Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link

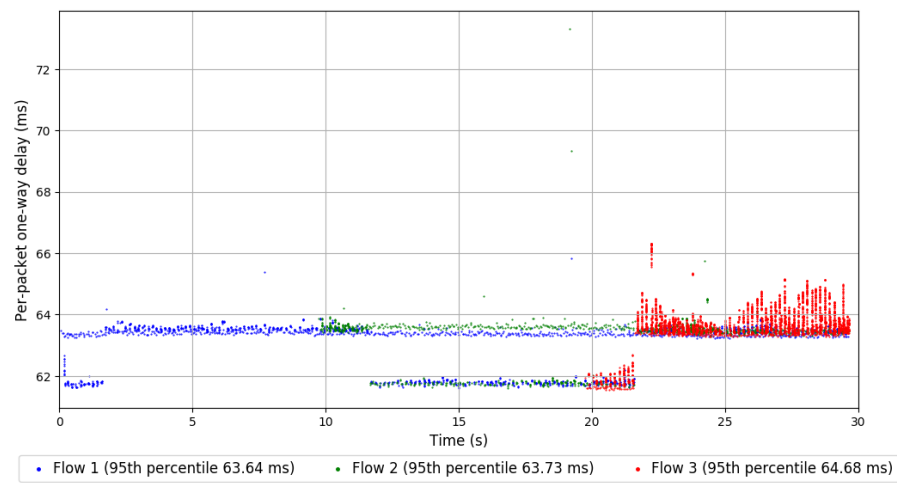
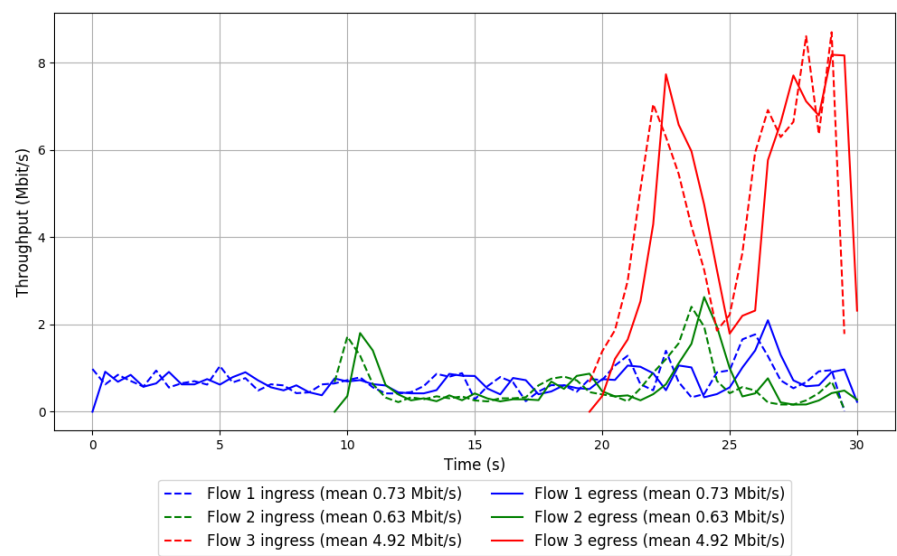


Run 1: Statistics of Sprout

Start at: 2018-06-06 06:24:59
End at: 2018-06-06 06:25:29
Local clock offset: -0.083 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 64.492 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 63.639 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 63.728 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 64.683 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

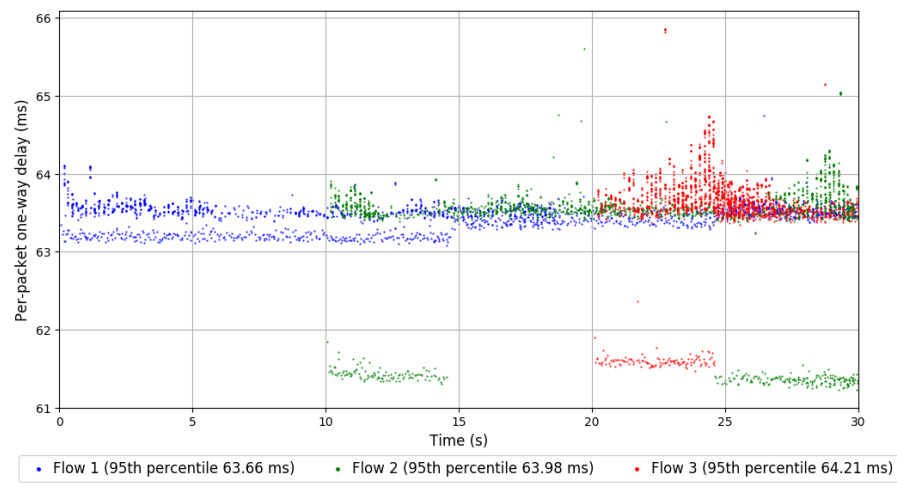
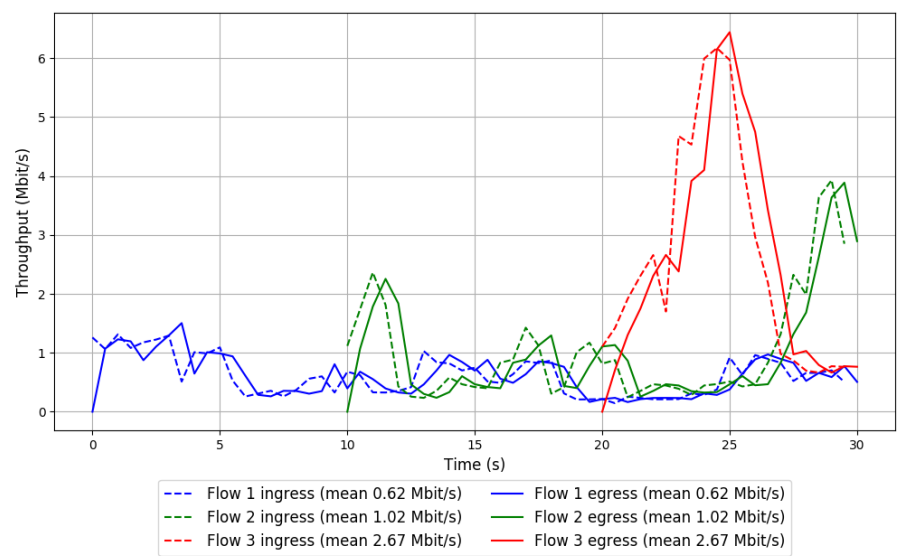


Run 2: Statistics of Sprout

Start at: 2018-06-06 06:47:26
End at: 2018-06-06 06:47:56
Local clock offset: -0.092 ms
Remote clock offset: -0.5 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 64.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 63.664 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 63.985 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 64.210 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

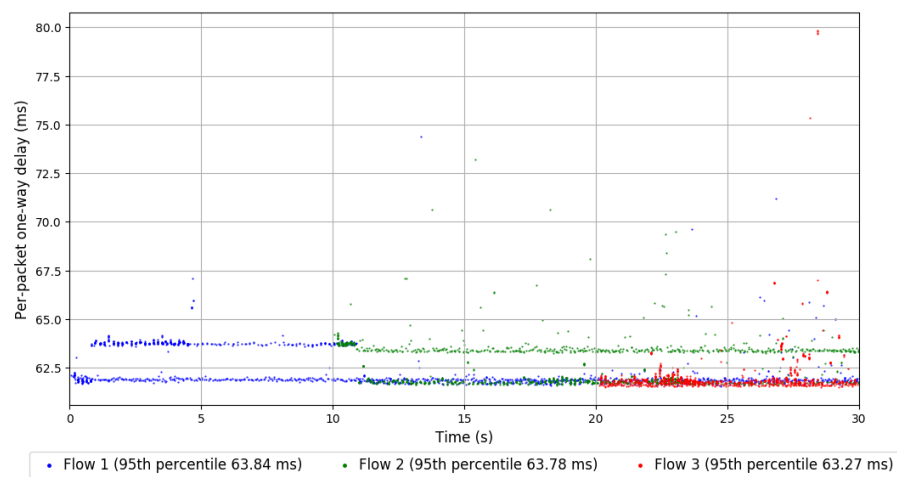
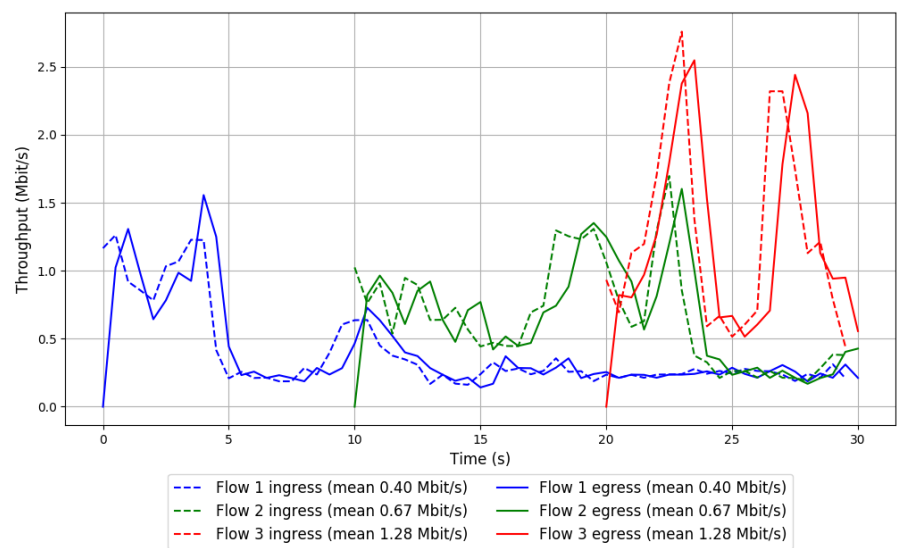


Run 3: Statistics of Sprout

Start at: 2018-06-06 07:09:50
End at: 2018-06-06 07:10:20
Local clock offset: -0.052 ms
Remote clock offset: -0.315 ms

```
# Below is generated by plot.py at 2018-06-06 11:34:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 63.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 63.844 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 63.783 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 63.273 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

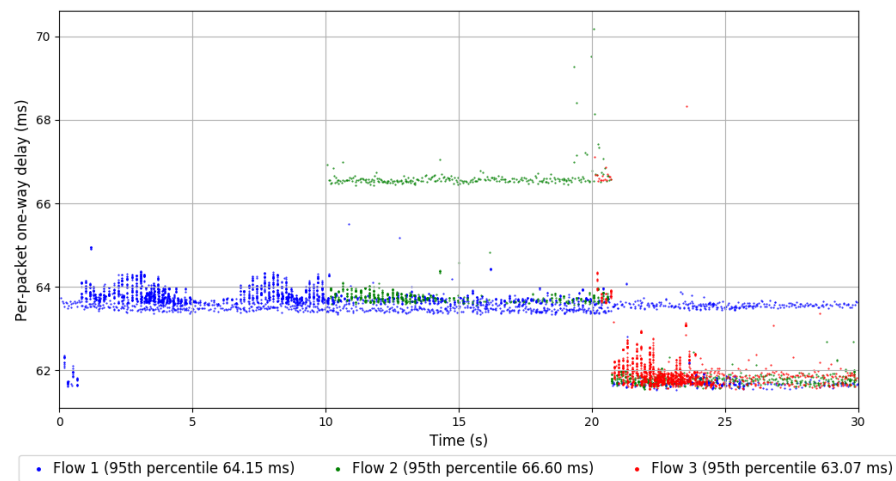
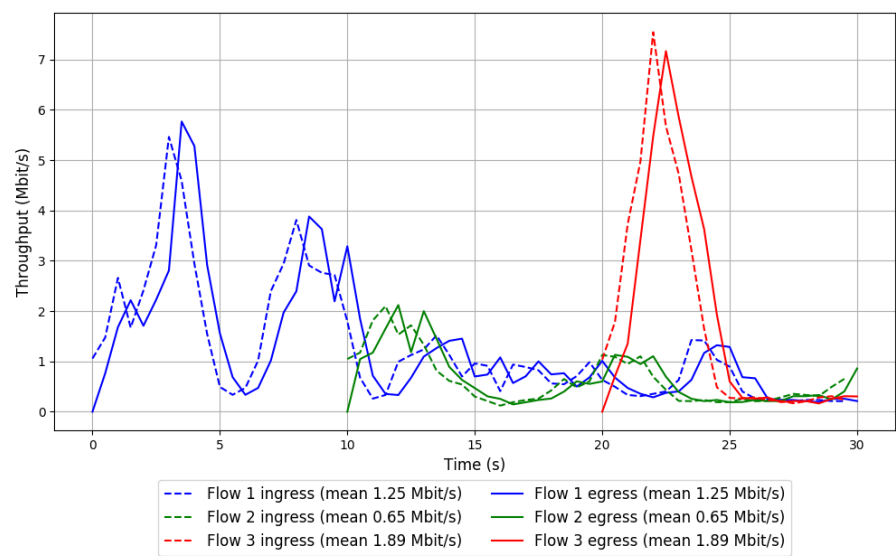


Run 4: Statistics of Sprout

Start at: 2018-06-06 07:32:20
End at: 2018-06-06 07:32:50
Local clock offset: 0.022 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 64.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 64.146 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 66.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 63.071 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

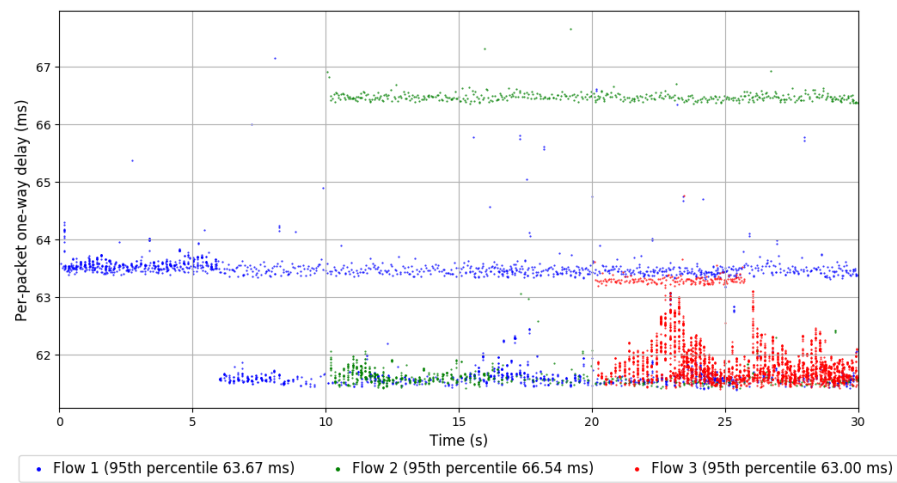
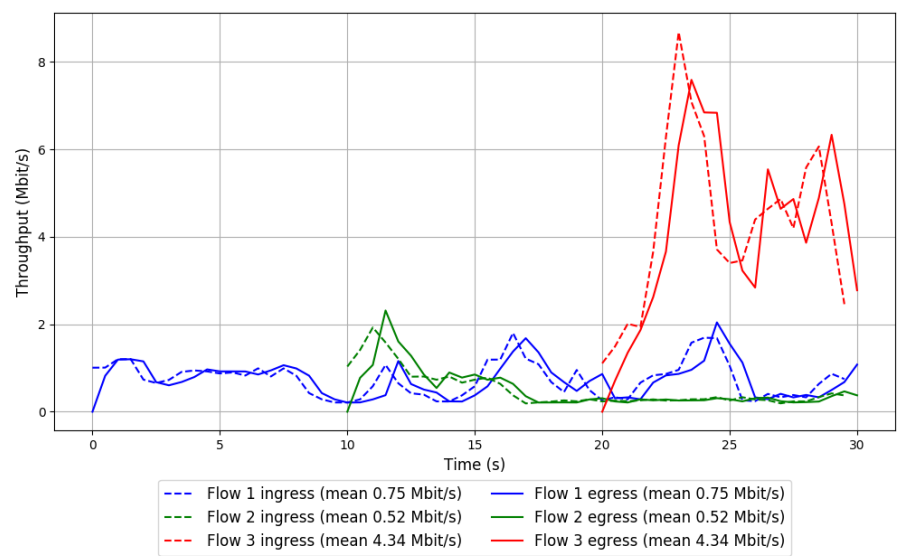


Run 5: Statistics of Sprout

Start at: 2018-06-06 07:54:35
End at: 2018-06-06 07:55:05
Local clock offset: -0.019 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 66.426 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 63.666 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 66.537 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 63.000 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-06 08:16:53

End at: 2018-06-06 08:17:23

Local clock offset: 0.026 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-06 11:34:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.73 Mbit/s

95th percentile per-packet one-way delay: 63.589 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.77 Mbit/s

95th percentile per-packet one-way delay: 63.371 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.00%

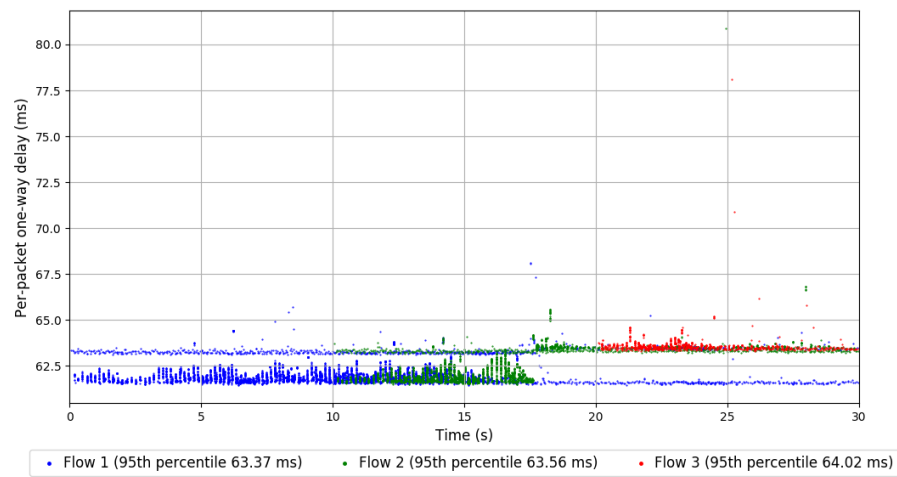
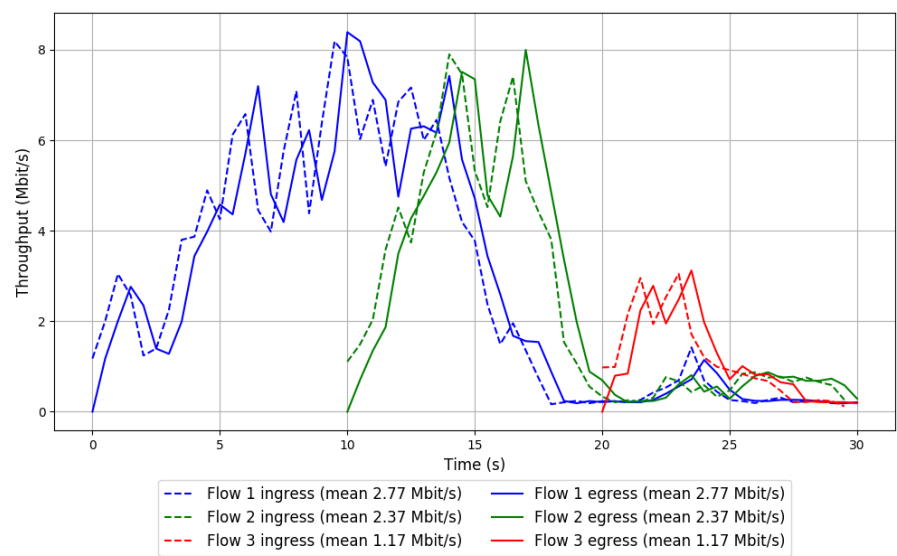
-- Flow 3:

Average throughput: 1.17 Mbit/s

95th percentile per-packet one-way delay: 64.017 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

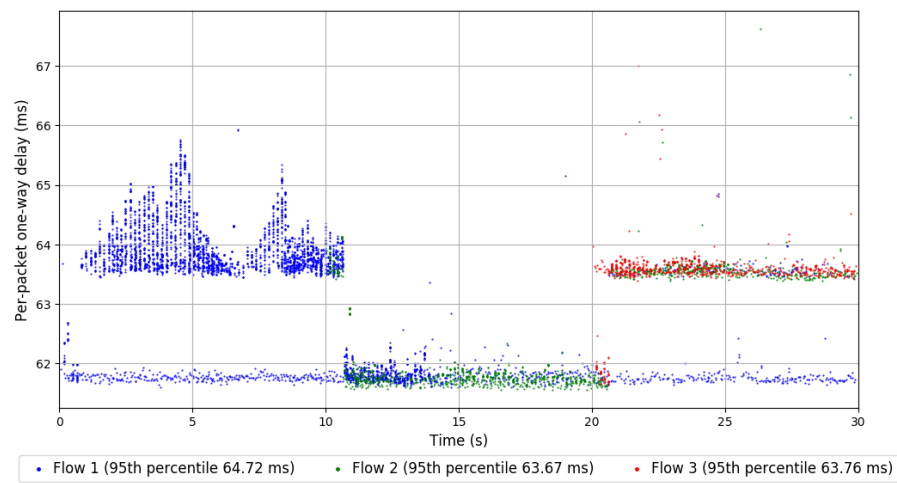
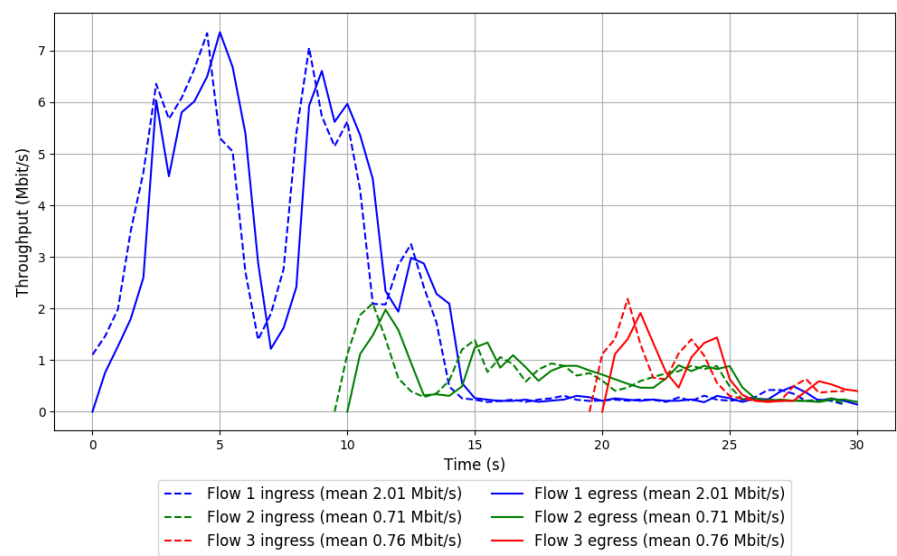


Run 7: Statistics of Sprout

Start at: 2018-06-06 08:39:20
End at: 2018-06-06 08:39:50
Local clock offset: -0.043 ms
Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.73 Mbit/s
95th percentile per-packet one-way delay: 64.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 64.717 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 63.672 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 63.764 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

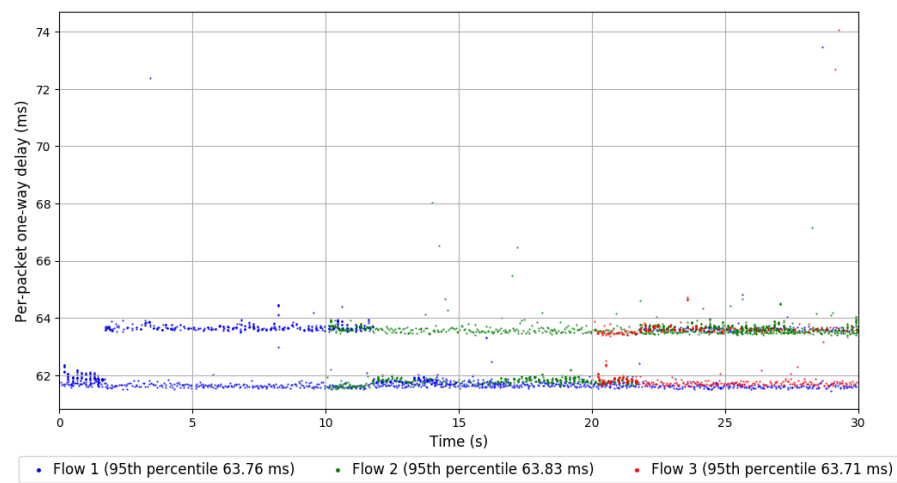
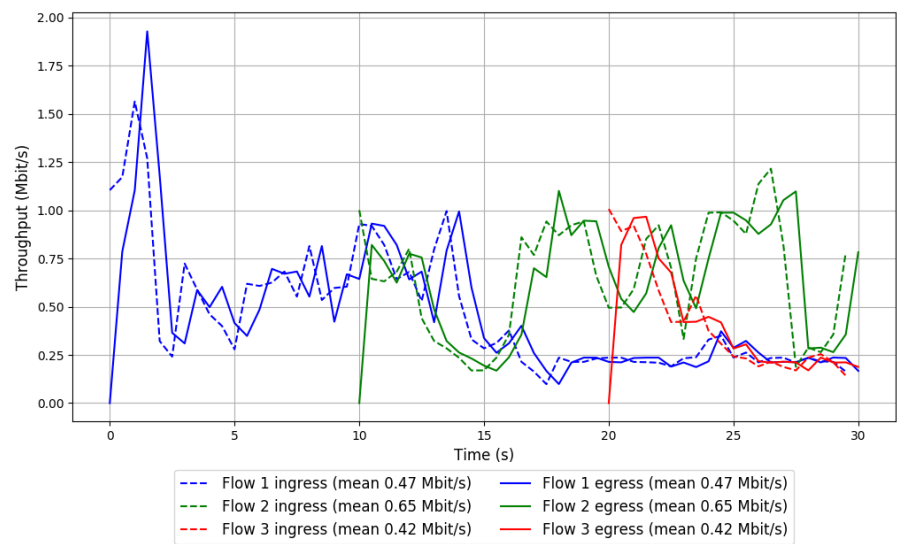


Run 8: Statistics of Sprout

Start at: 2018-06-06 09:01:49
End at: 2018-06-06 09:02:19
Local clock offset: -0.092 ms
Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 63.770 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 63.755 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 63.833 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

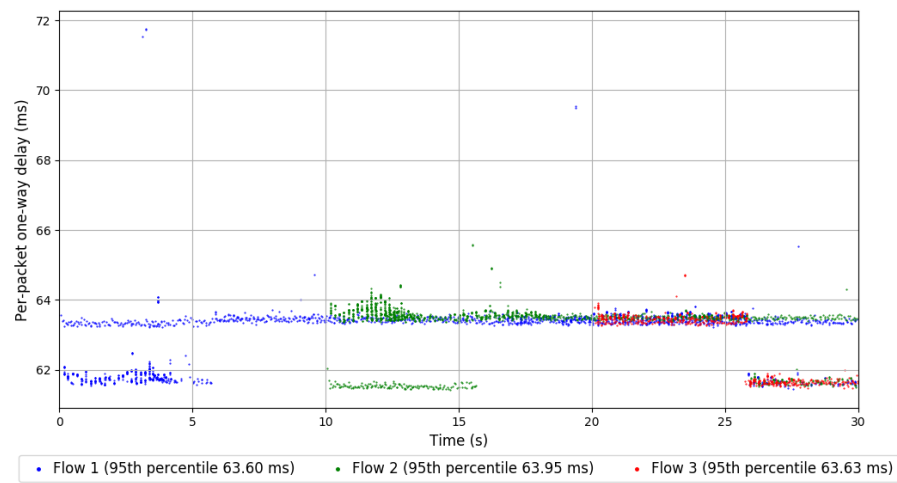
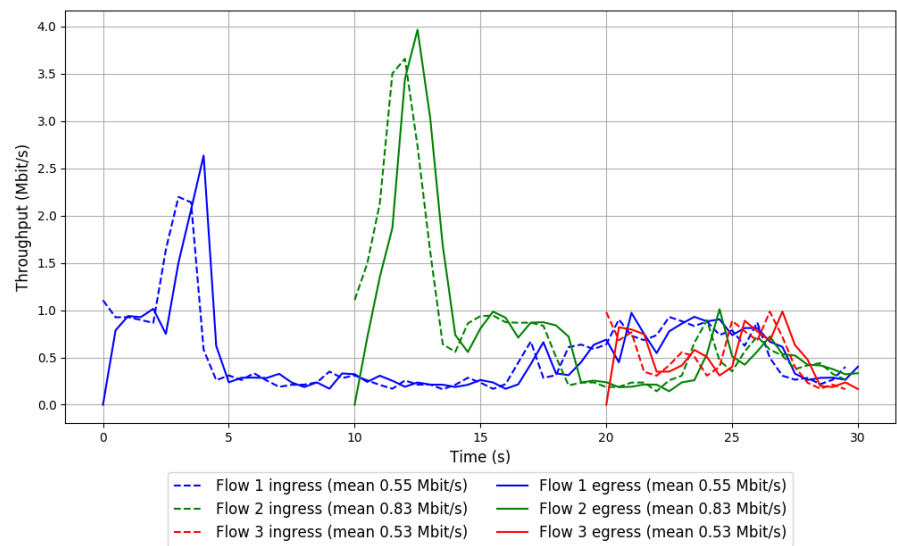


Run 9: Statistics of Sprout

Start at: 2018-06-06 09:24:15
End at: 2018-06-06 09:24:45
Local clock offset: -0.122 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 63.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 63.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.83 Mbit/s
95th percentile per-packet one-way delay: 63.953 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 63.627 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

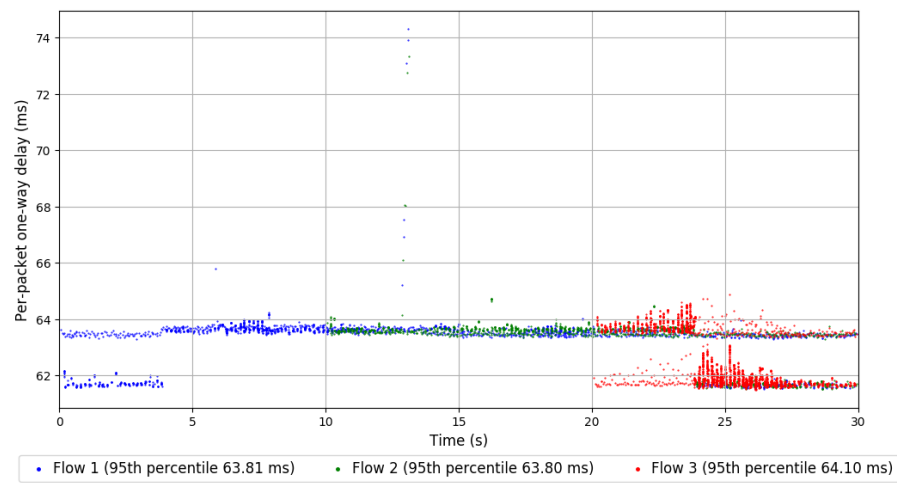
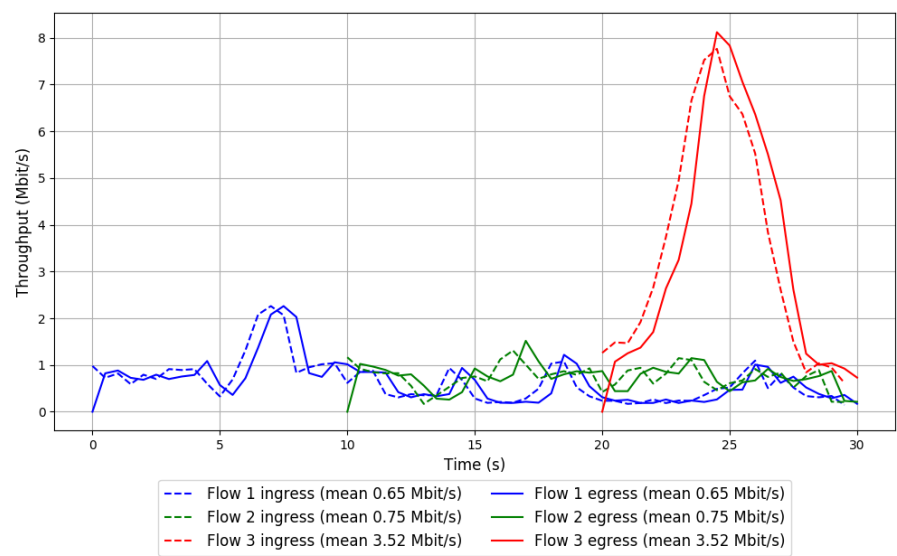


Run 10: Statistics of Sprout

Start at: 2018-06-06 09:46:47
End at: 2018-06-06 09:47:17
Local clock offset: -0.141 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-06-06 11:34:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 63.955 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 63.813 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 63.804 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 64.099 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

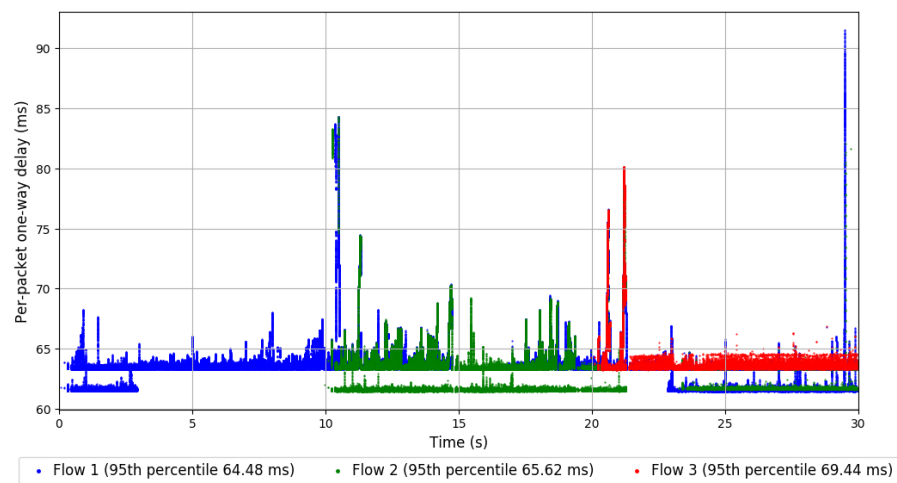
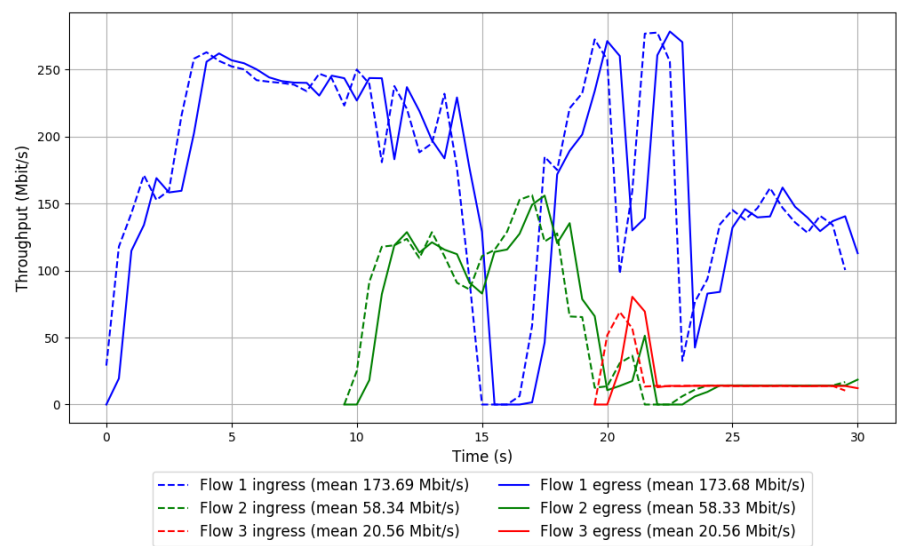


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 06:26:08
End at: 2018-06-06 06:26:38
Local clock offset: -0.093 ms
Remote clock offset: -0.354 ms

# Below is generated by plot.py at 2018-06-06 11:38:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 219.52 Mbit/s
95th percentile per-packet one-way delay: 64.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.68 Mbit/s
95th percentile per-packet one-way delay: 64.476 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 65.618 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 69.440 ms
Loss rate: 0.01%
```

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

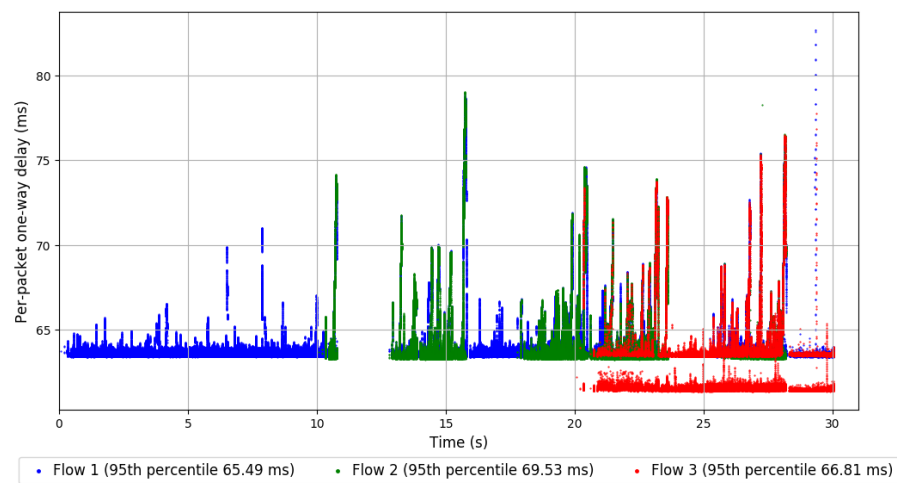
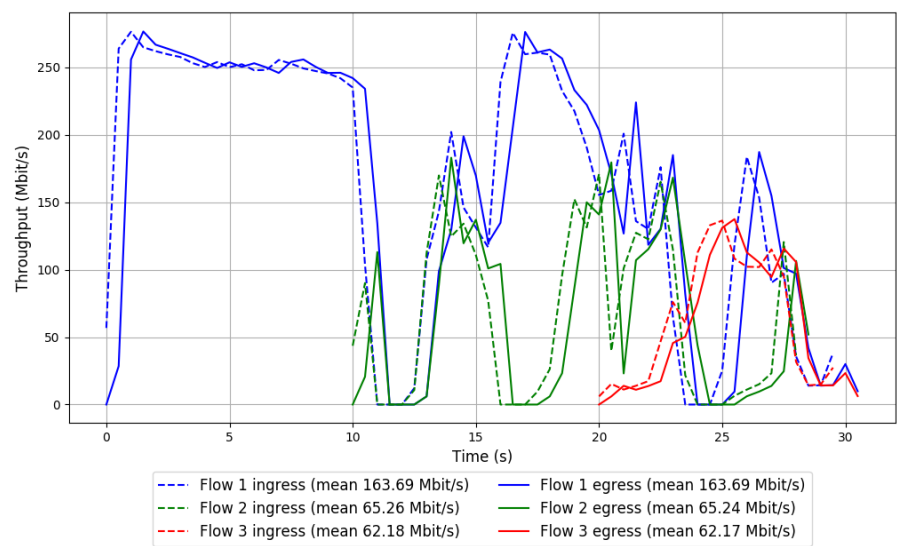


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 06:48:35
End at: 2018-06-06 06:49:05
Local clock offset: -0.075 ms
Remote clock offset: -0.371 ms

Below is generated by plot.py at 2018-06-06 11:38:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 223.69 Mbit/s
95th percentile per-packet one-way delay: 66.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.69 Mbit/s
95th percentile per-packet one-way delay: 65.490 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 65.24 Mbit/s
95th percentile per-packet one-way delay: 69.527 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.17 Mbit/s
95th percentile per-packet one-way delay: 66.808 ms
Loss rate: 0.02%

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

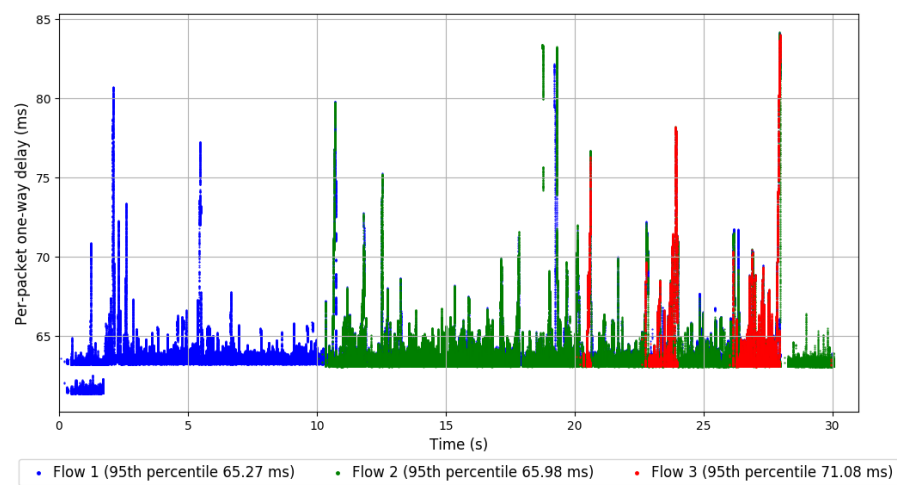
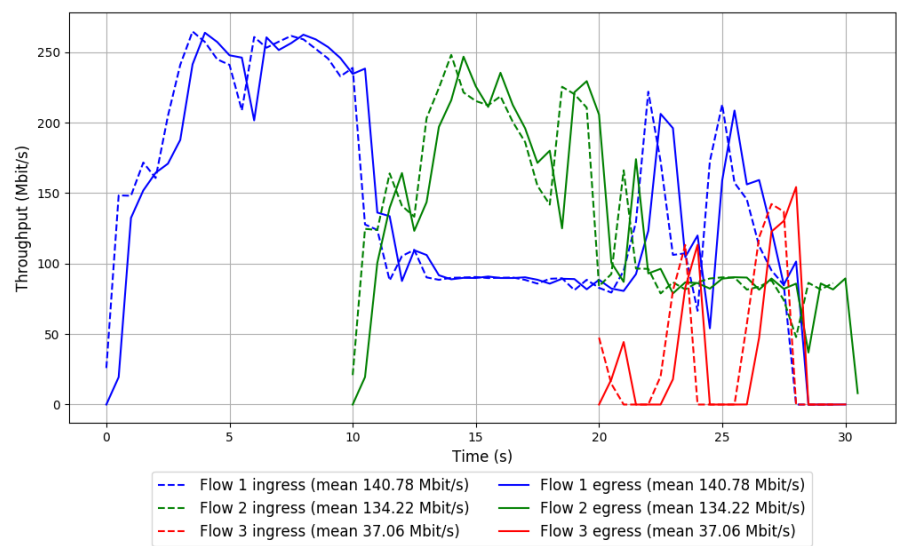


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 07:10:59
End at: 2018-06-06 07:11:29
Local clock offset: -0.052 ms
Remote clock offset: -0.443 ms

Below is generated by plot.py at 2018-06-06 11:38:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 242.00 Mbit/s
95th percentile per-packet one-way delay: 65.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 140.78 Mbit/s
95th percentile per-packet one-way delay: 65.273 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 134.22 Mbit/s
95th percentile per-packet one-way delay: 65.976 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.06 Mbit/s
95th percentile per-packet one-way delay: 71.080 ms
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 07:33:29

End at: 2018-06-06 07:33:59

Local clock offset: 0.032 ms

Remote clock offset: -0.54 ms

Below is generated by plot.py at 2018-06-06 11:38:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 149.76 Mbit/s

95th percentile per-packet one-way delay: 66.560 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.27 Mbit/s

95th percentile per-packet one-way delay: 66.728 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 110.19 Mbit/s

95th percentile per-packet one-way delay: 64.894 ms

Loss rate: 0.00%

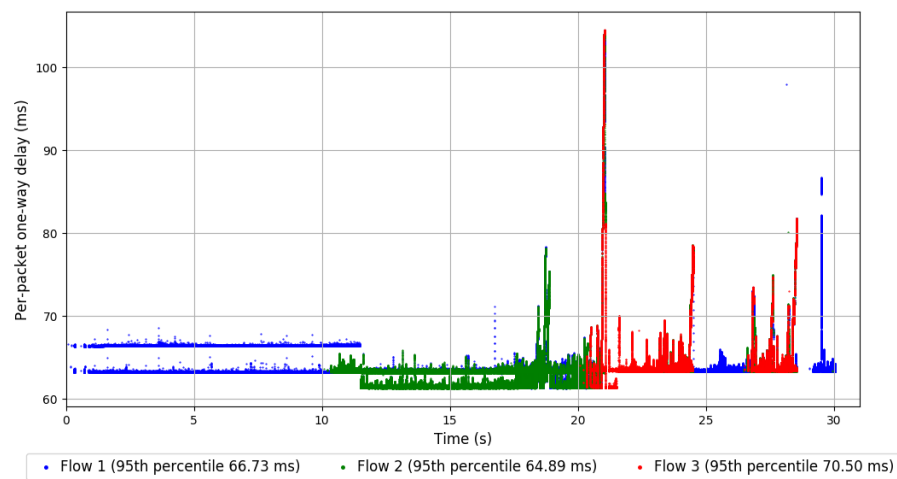
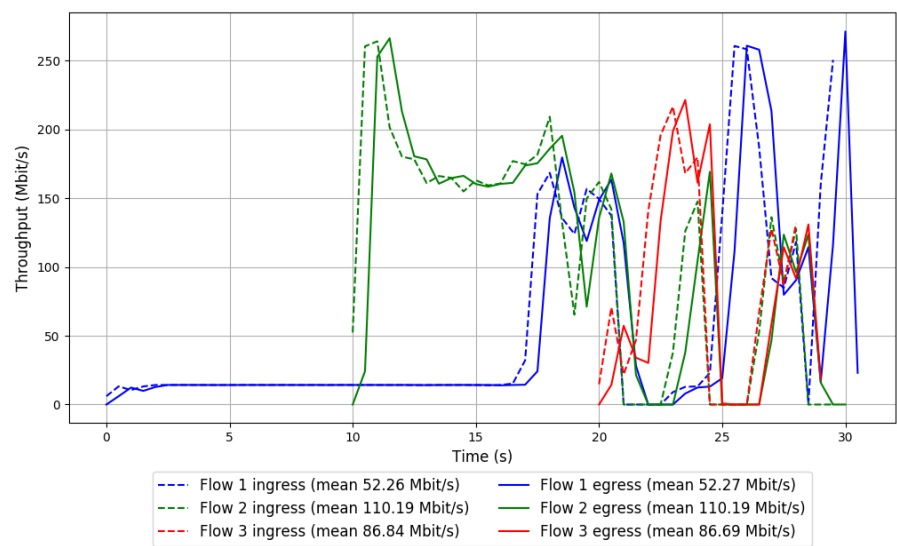
-- Flow 3:

Average throughput: 86.69 Mbit/s

95th percentile per-packet one-way delay: 70.495 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 07:55:44

End at: 2018-06-06 07:56:14

Local clock offset: -0.027 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-06-06 11:38:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.44 Mbit/s

95th percentile per-packet one-way delay: 67.010 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.39 Mbit/s

95th percentile per-packet one-way delay: 66.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 89.94 Mbit/s

95th percentile per-packet one-way delay: 66.652 ms

Loss rate: 0.01%

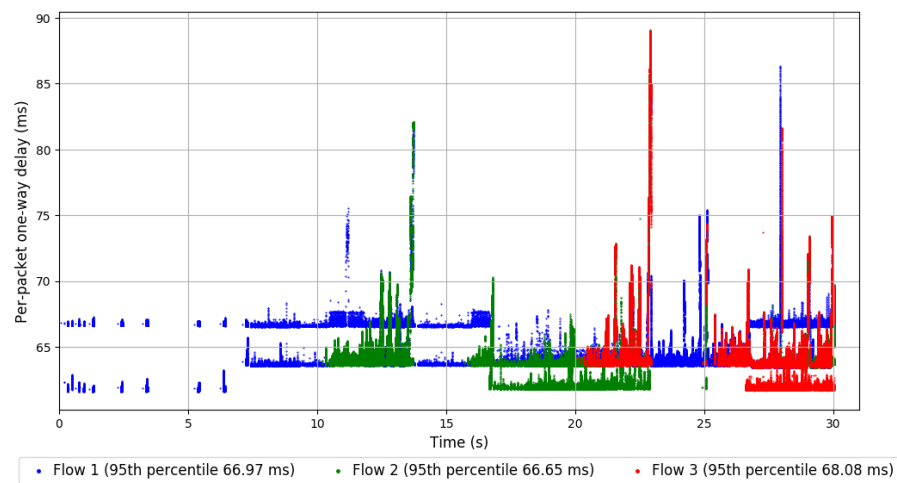
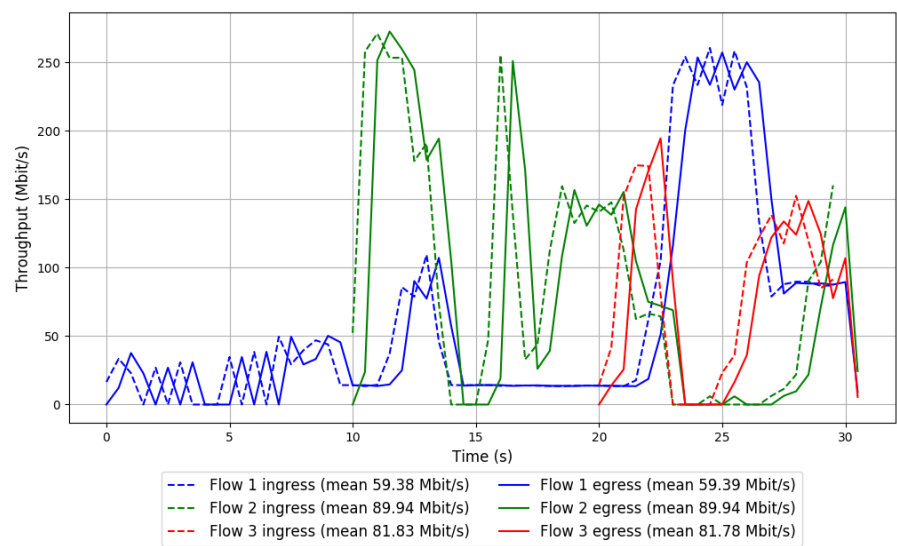
-- Flow 3:

Average throughput: 81.78 Mbit/s

95th percentile per-packet one-way delay: 68.076 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 08:18:02

End at: 2018-06-06 08:18:32

Local clock offset: -0.075 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-06-06 11:39:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 233.07 Mbit/s

95th percentile per-packet one-way delay: 67.336 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 161.55 Mbit/s

95th percentile per-packet one-way delay: 66.368 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.07 Mbit/s

95th percentile per-packet one-way delay: 69.591 ms

Loss rate: 0.00%

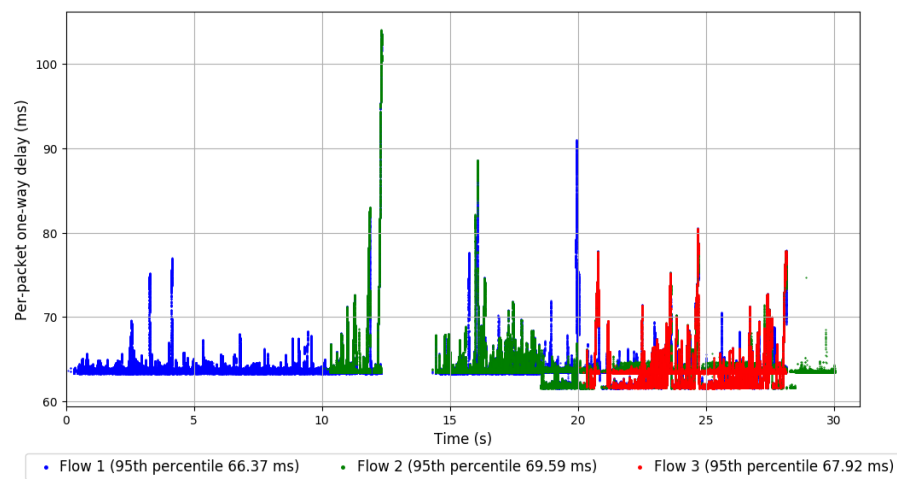
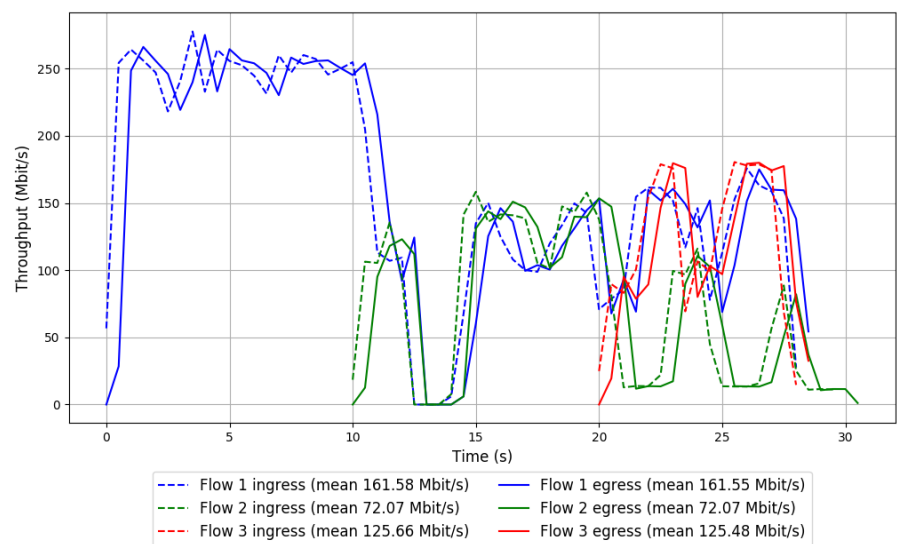
-- Flow 3:

Average throughput: 125.48 Mbit/s

95th percentile per-packet one-way delay: 67.915 ms

Loss rate: 0.00%

Run 6: Report of TaoVA-100x — Data Link



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 08:40:29

End at: 2018-06-06 08:40:59

Local clock offset: -0.021 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-06-06 11:41:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 239.57 Mbit/s

95th percentile per-packet one-way delay: 69.800 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.30 Mbit/s

95th percentile per-packet one-way delay: 64.812 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 216.20 Mbit/s

95th percentile per-packet one-way delay: 71.572 ms

Loss rate: 0.00%

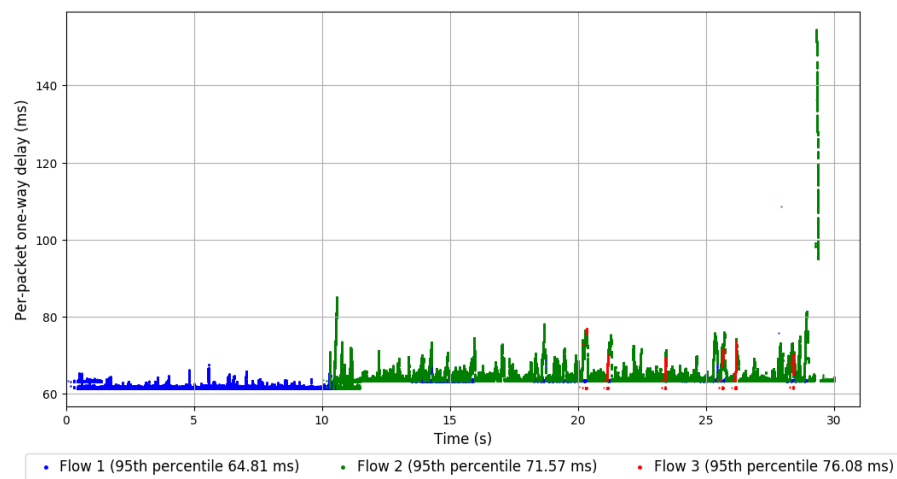
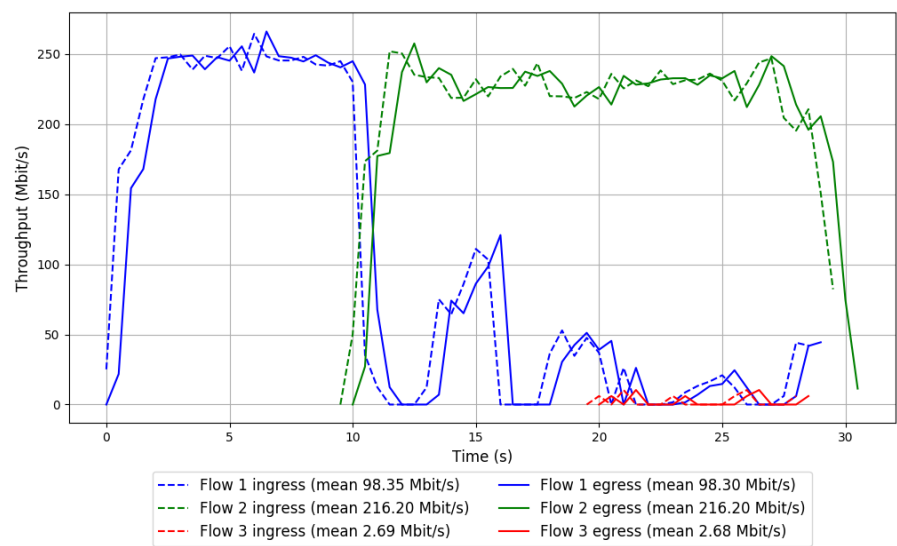
-- Flow 3:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 76.080 ms

Loss rate: 0.00%

Run 7: Report of TaoVA-100x — Data Link

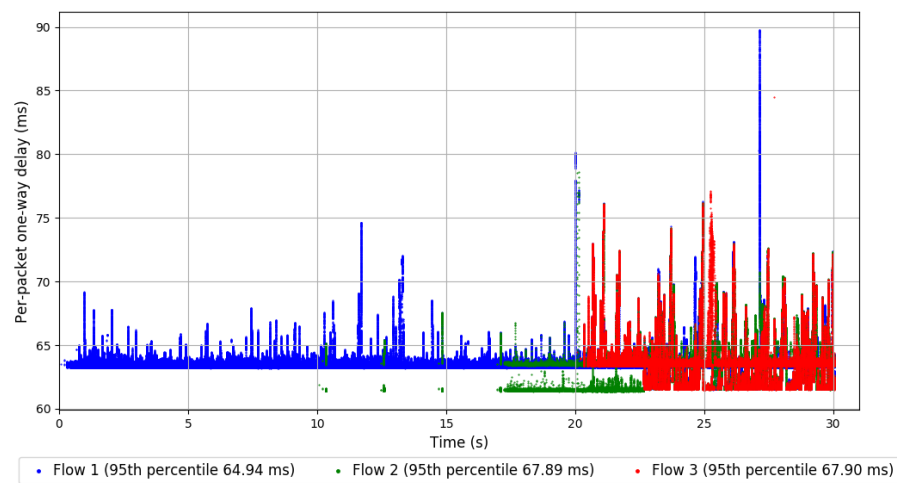
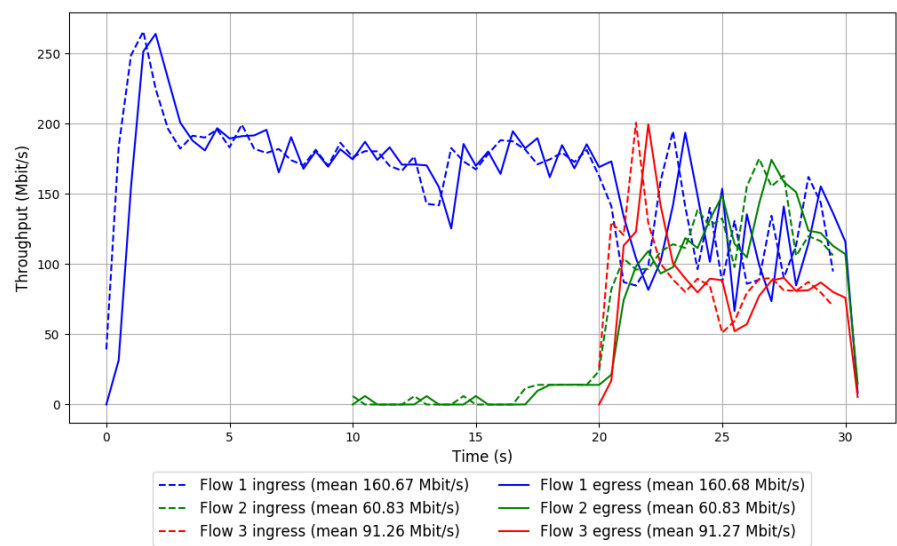


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 09:02:58
End at: 2018-06-06 09:03:28
Local clock offset: -0.106 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-06 11:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 231.53 Mbit/s
95th percentile per-packet one-way delay: 66.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 160.68 Mbit/s
95th percentile per-packet one-way delay: 64.941 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 67.887 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 91.27 Mbit/s
95th percentile per-packet one-way delay: 67.899 ms
Loss rate: 0.00%

Run 8: Report of TaoVA-100x — Data Link

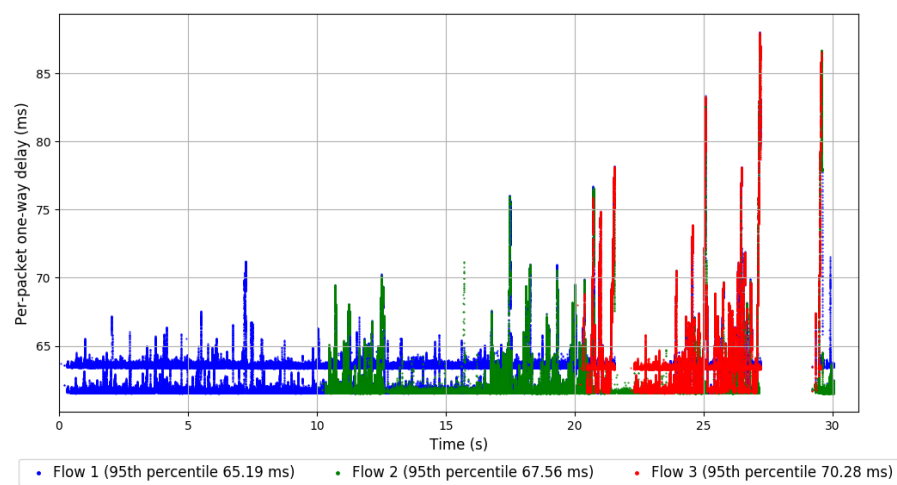
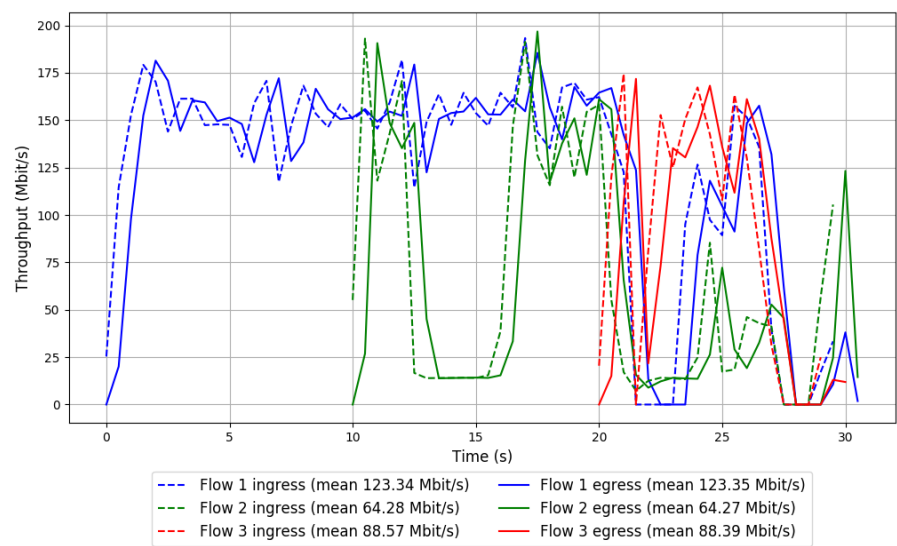


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 09:25:24
End at: 2018-06-06 09:25:54
Local clock offset: -0.113 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-06 11:43:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 194.08 Mbit/s
95th percentile per-packet one-way delay: 66.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 123.35 Mbit/s
95th percentile per-packet one-way delay: 65.188 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.27 Mbit/s
95th percentile per-packet one-way delay: 67.556 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.39 Mbit/s
95th percentile per-packet one-way delay: 70.283 ms
Loss rate: 0.00%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 09:47:56

End at: 2018-06-06 09:48:26

Local clock offset: -0.111 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-06 11:44:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 234.81 Mbit/s

95th percentile per-packet one-way delay: 64.863 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.62 Mbit/s

95th percentile per-packet one-way delay: 63.917 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 18.50 Mbit/s

95th percentile per-packet one-way delay: 68.260 ms

Loss rate: 0.00%

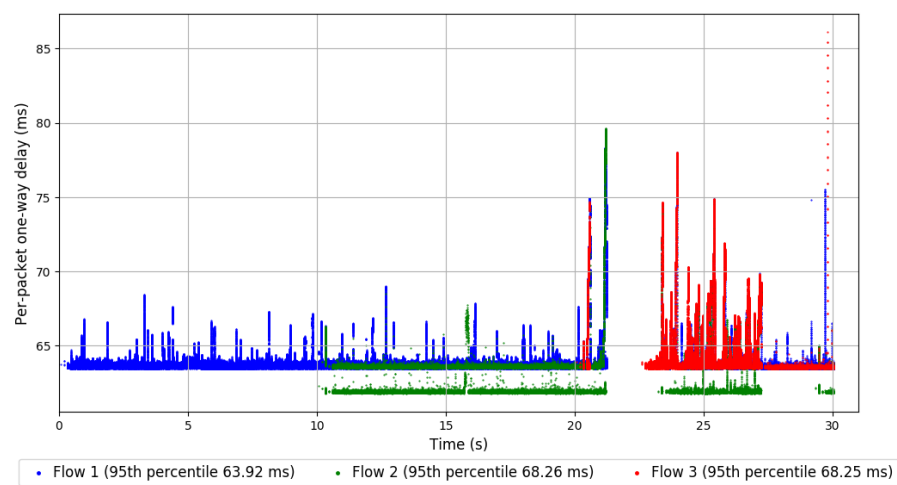
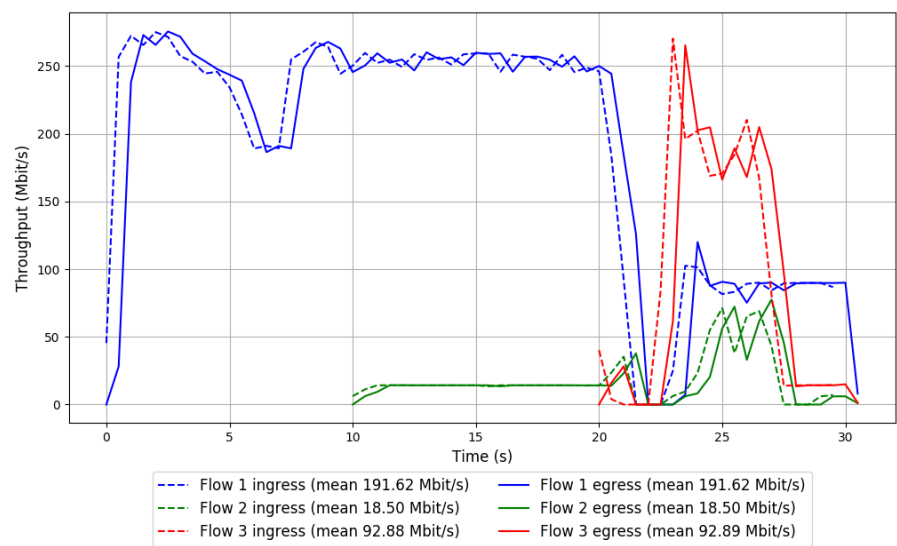
-- Flow 3:

Average throughput: 92.89 Mbit/s

95th percentile per-packet one-way delay: 68.246 ms

Loss rate: 0.00%

Run 10: Report of TaoVA-100x — Data Link

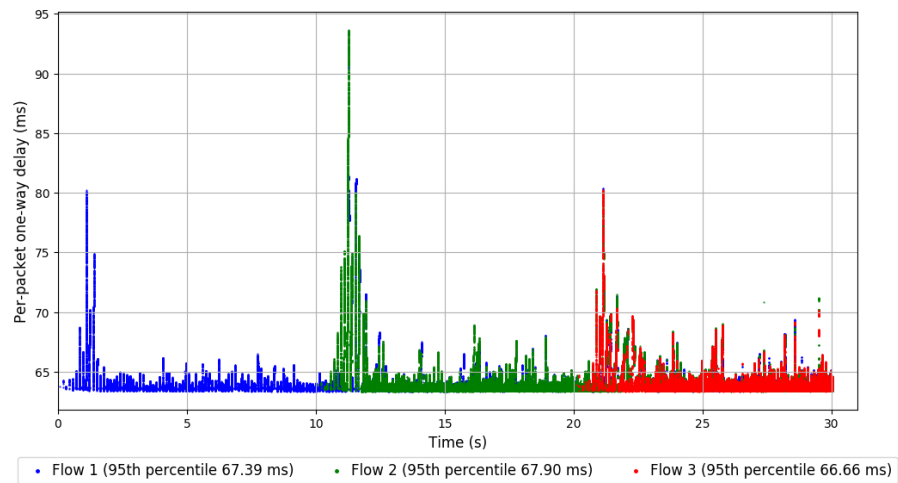
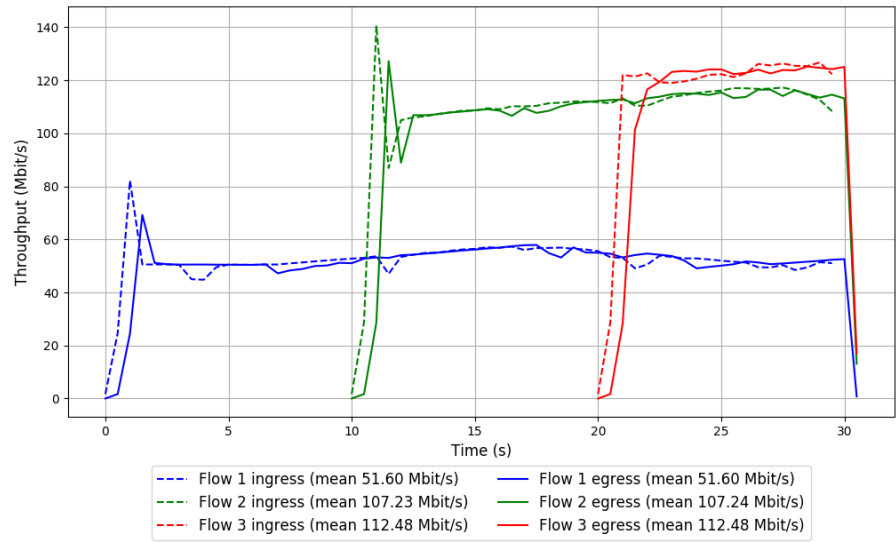


Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 06:30:23
End at: 2018-06-06 06:30:53
Local clock offset: -0.103 ms
Remote clock offset: -0.403 ms

Below is generated by plot.py at 2018-06-06 11:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 160.39 Mbit/s
95th percentile per-packet one-way delay: 67.420 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.60 Mbit/s
95th percentile per-packet one-way delay: 67.390 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 107.24 Mbit/s
95th percentile per-packet one-way delay: 67.904 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 112.48 Mbit/s
95th percentile per-packet one-way delay: 66.664 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

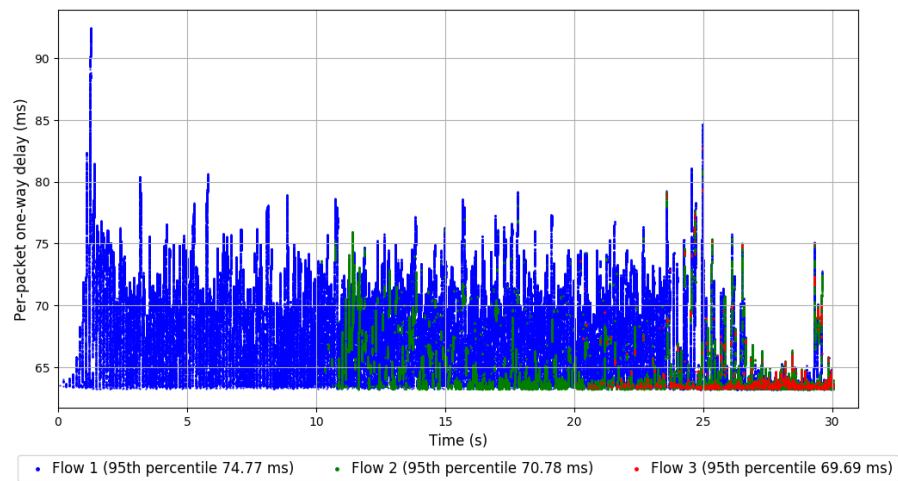
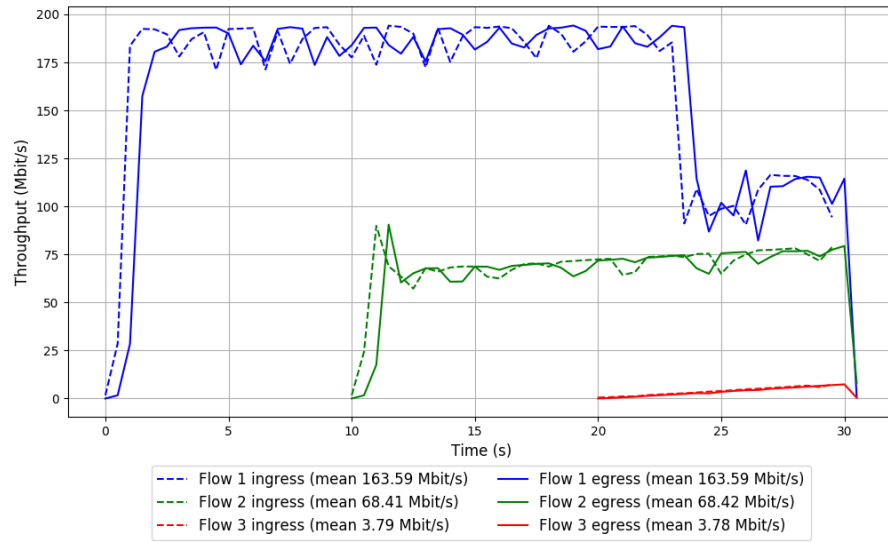


Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 06:52:46
End at: 2018-06-06 06:53:16
Local clock offset: -0.008 ms
Remote clock offset: -0.547 ms

Below is generated by plot.py at 2018-06-06 11:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 210.40 Mbit/s
95th percentile per-packet one-way delay: 74.377 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 163.59 Mbit/s
95th percentile per-packet one-way delay: 74.766 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.42 Mbit/s
95th percentile per-packet one-way delay: 70.775 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 69.691 ms
Loss rate: 0.22%

Run 2: Report of TCP Vegas — Data Link

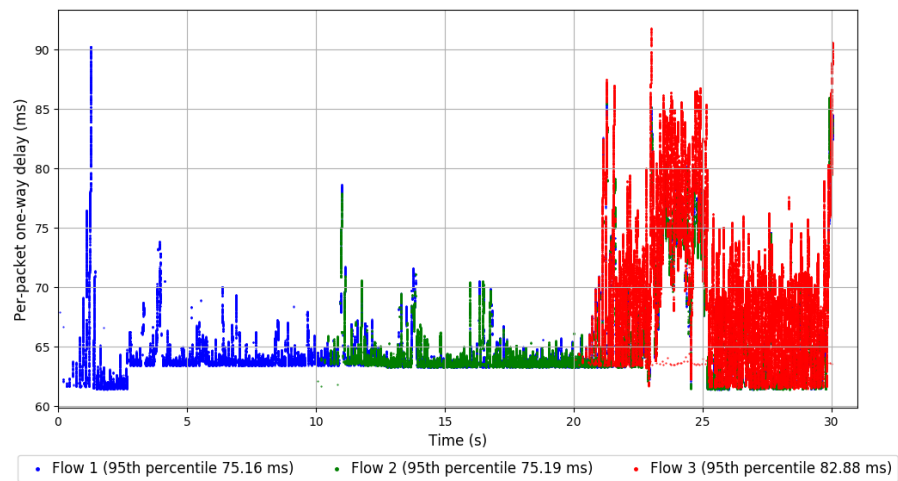
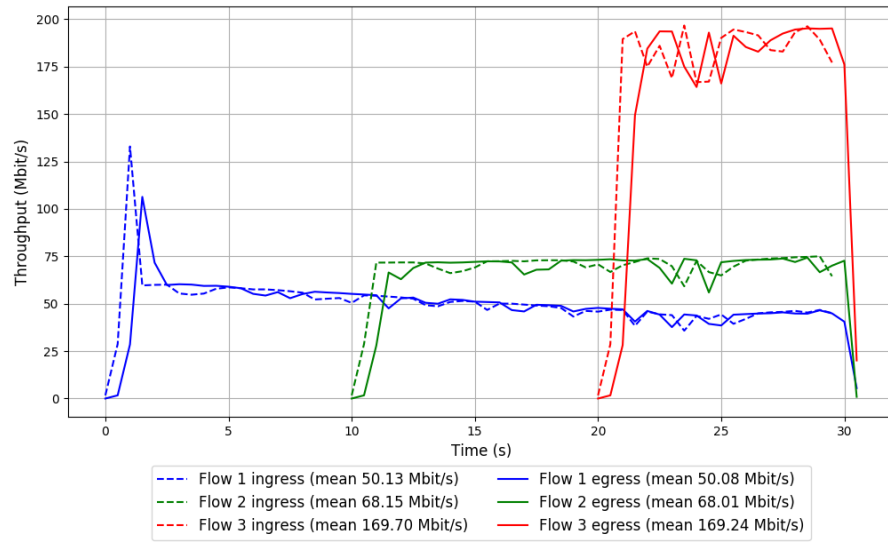


Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 07:15:18
End at: 2018-06-06 07:15:48
Local clock offset: -0.069 ms
Remote clock offset: -0.489 ms

Below is generated by plot.py at 2018-06-06 11:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.52 Mbit/s
95th percentile per-packet one-way delay: 79.732 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 50.08 Mbit/s
95th percentile per-packet one-way delay: 75.156 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 68.01 Mbit/s
95th percentile per-packet one-way delay: 75.187 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 169.24 Mbit/s
95th percentile per-packet one-way delay: 82.881 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

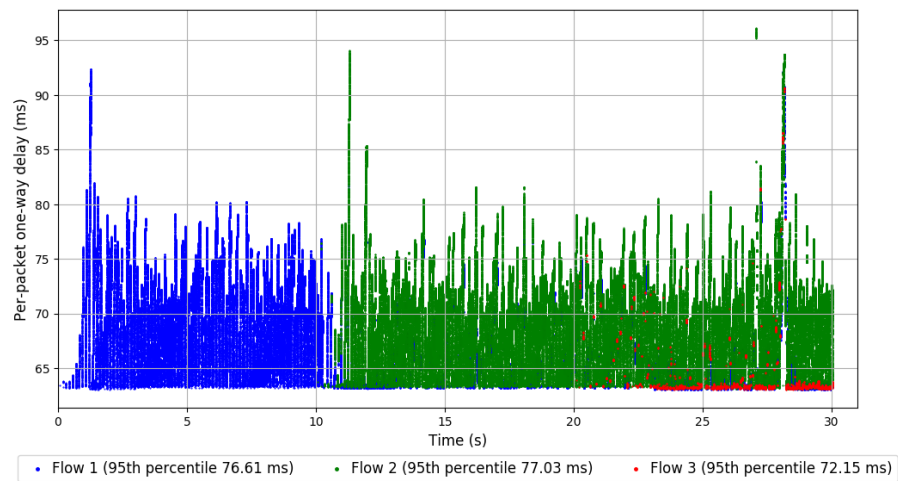
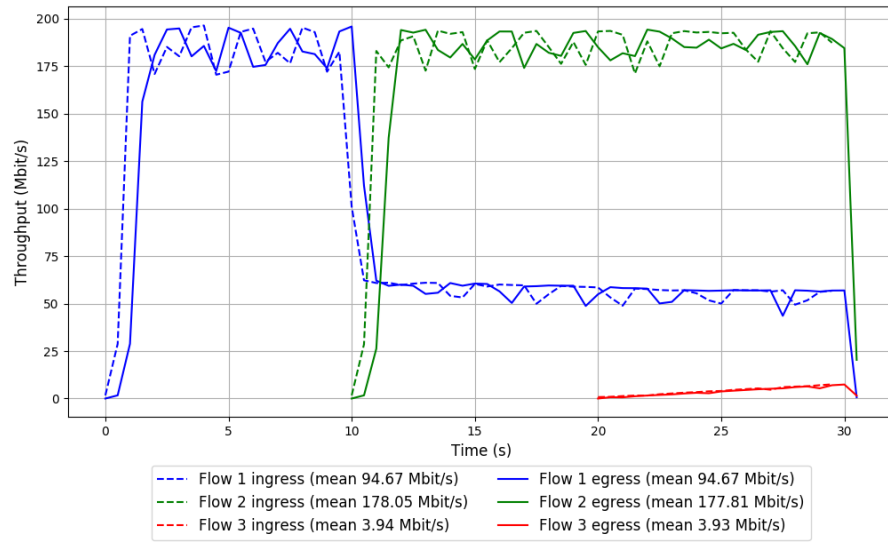


Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 07:37:38
End at: 2018-06-06 07:38:08
Local clock offset: -0.003 ms
Remote clock offset: -0.711 ms

Below is generated by plot.py at 2018-06-06 11:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.35 Mbit/s
95th percentile per-packet one-way delay: 76.858 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 76.605 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 177.81 Mbit/s
95th percentile per-packet one-way delay: 77.032 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 72.147 ms
Loss rate: 0.09%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 07:59:55

End at: 2018-06-06 08:00:25

Local clock offset: -0.059 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-06 11:44:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 165.19 Mbit/s

95th percentile per-packet one-way delay: 76.019 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.65 Mbit/s

95th percentile per-packet one-way delay: 74.945 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 164.06 Mbit/s

95th percentile per-packet one-way delay: 76.557 ms

Loss rate: 0.00%

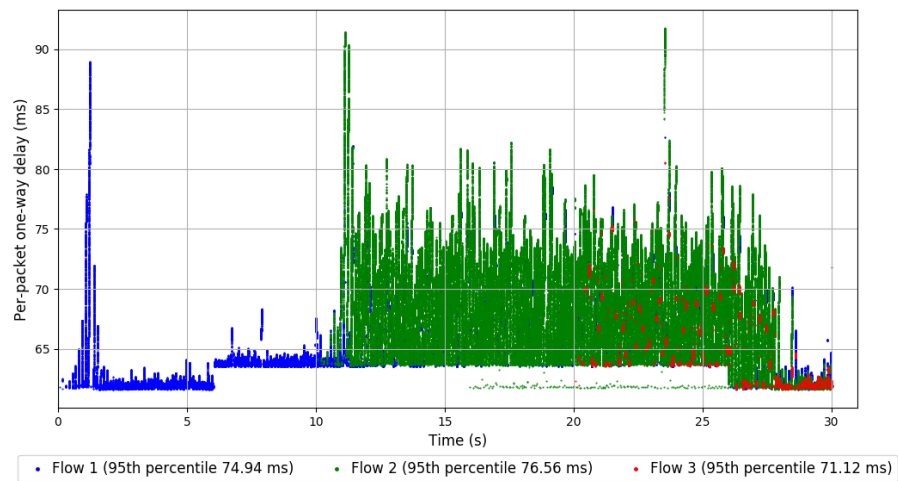
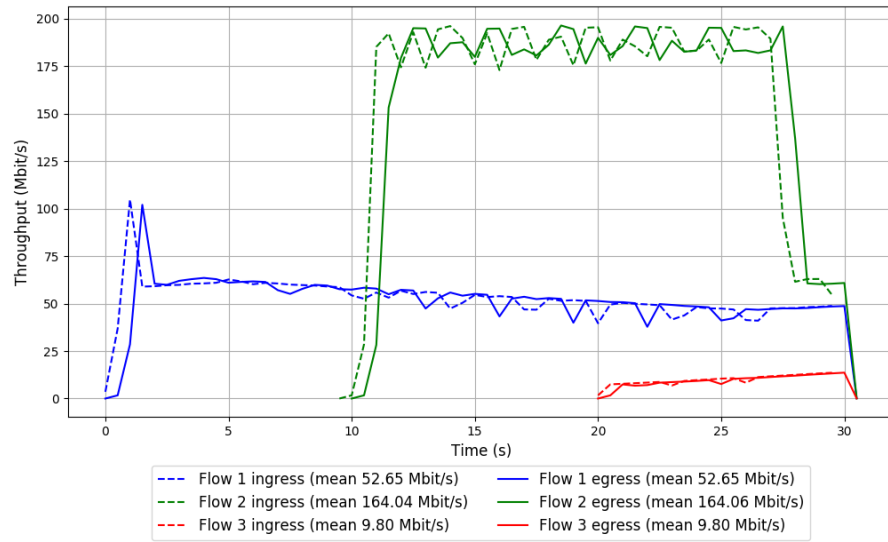
-- Flow 3:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 71.117 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 08:22:16

End at: 2018-06-06 08:22:46

Local clock offset: -0.074 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-06 11:44:57

Datalink statistics

-- Total of 3 flows:

Average throughput: 191.65 Mbit/s

95th percentile per-packet one-way delay: 76.441 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 76.069 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 165.78 Mbit/s

95th percentile per-packet one-way delay: 76.813 ms

Loss rate: 0.00%

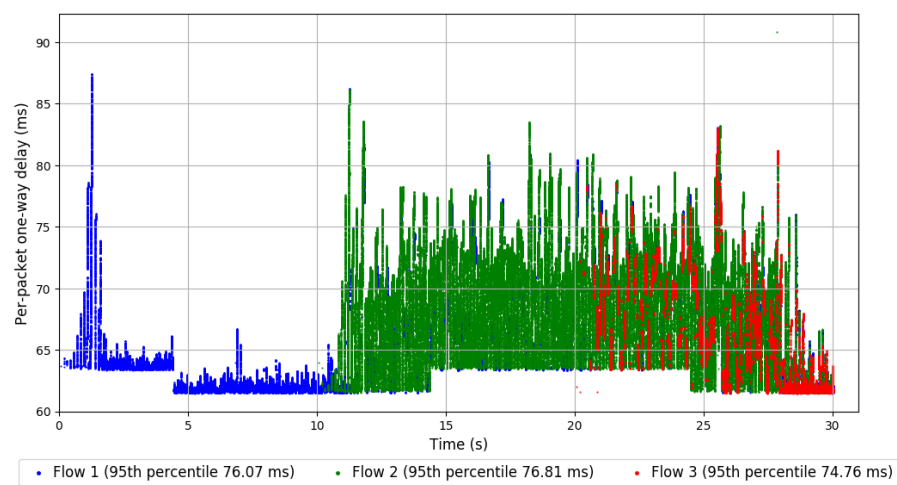
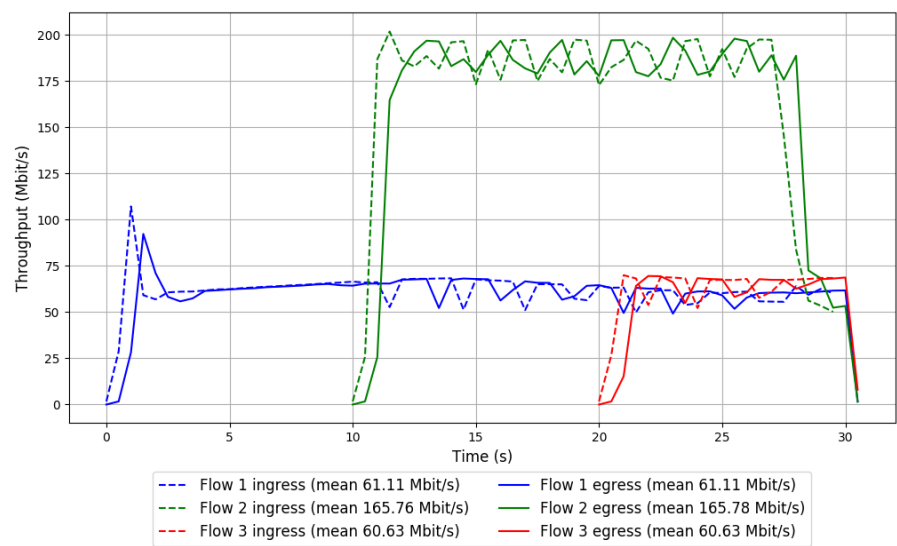
-- Flow 3:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 74.757 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 08:44:49

End at: 2018-06-06 08:45:19

Local clock offset: -0.026 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-06-06 11:45:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 207.97 Mbit/s

95th percentile per-packet one-way delay: 76.550 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 170.08 Mbit/s

95th percentile per-packet one-way delay: 76.897 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.94 Mbit/s

95th percentile per-packet one-way delay: 72.100 ms

Loss rate: 0.00%

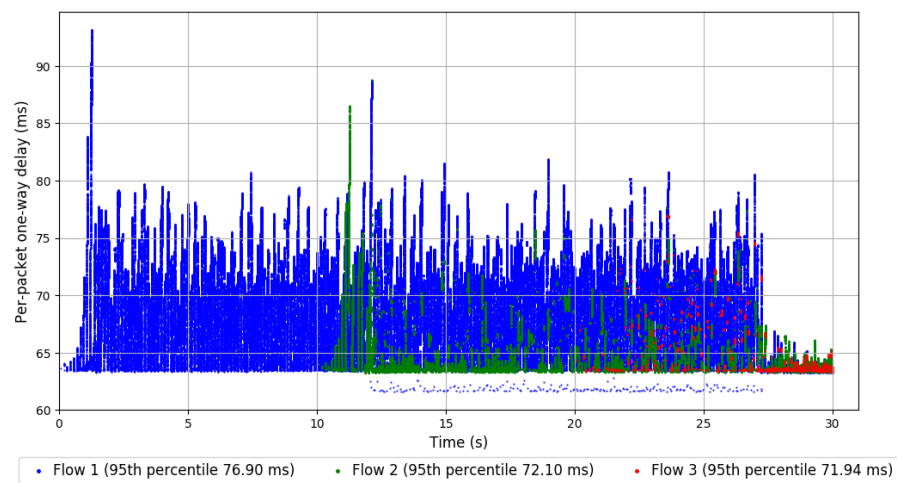
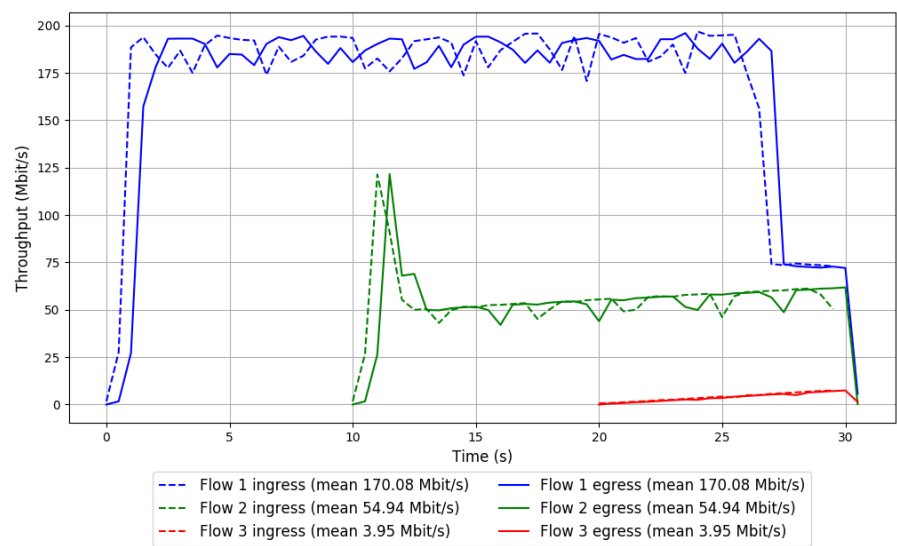
-- Flow 3:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 71.939 ms

Loss rate: 0.15%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 09:07:13

End at: 2018-06-06 09:07:43

Local clock offset: -0.099 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2018-06-06 11:45:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 194.40 Mbit/s

95th percentile per-packet one-way delay: 74.689 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 148.24 Mbit/s

95th percentile per-packet one-way delay: 75.152 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 70.972 ms

Loss rate: 0.00%

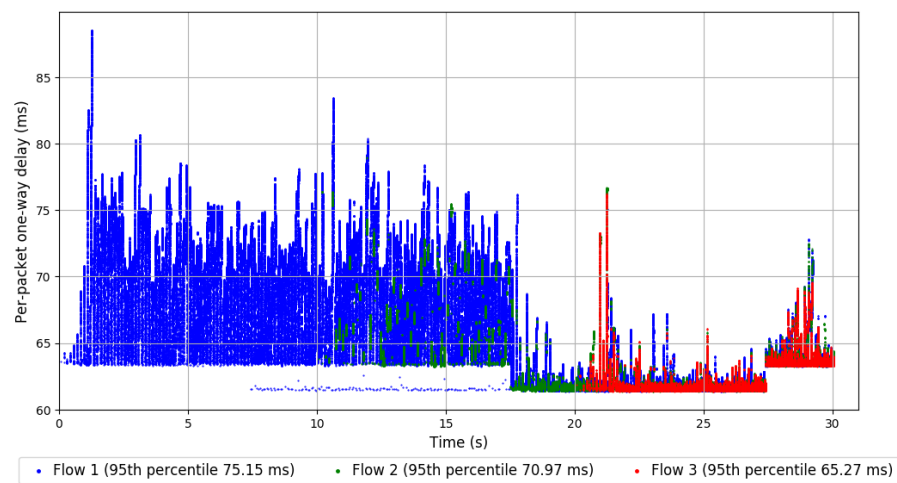
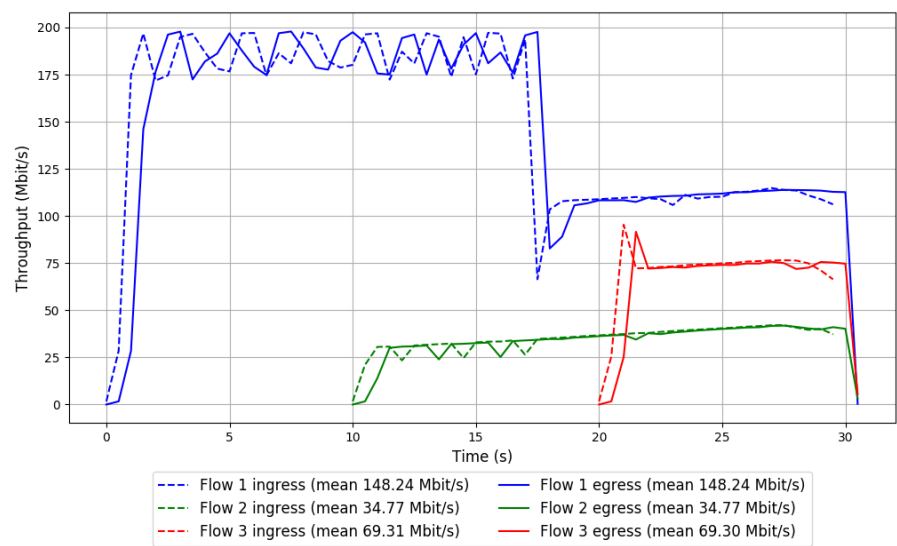
-- Flow 3:

Average throughput: 69.30 Mbit/s

95th percentile per-packet one-way delay: 65.274 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

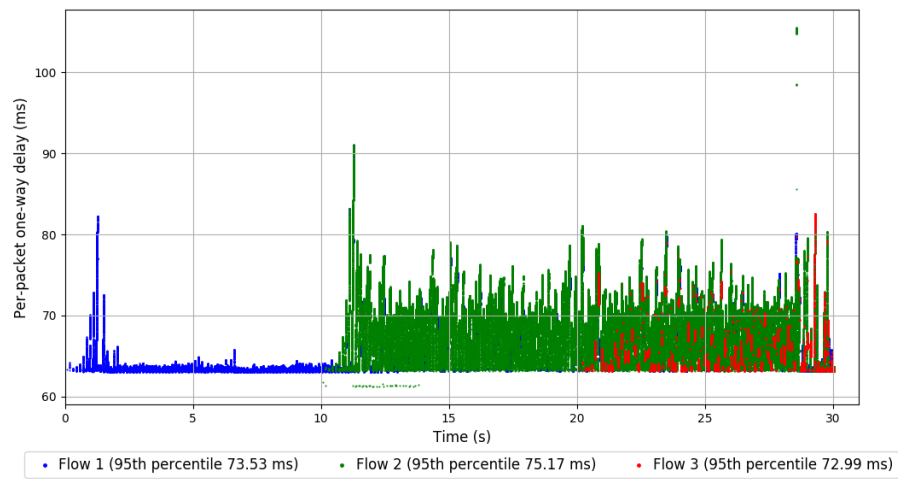
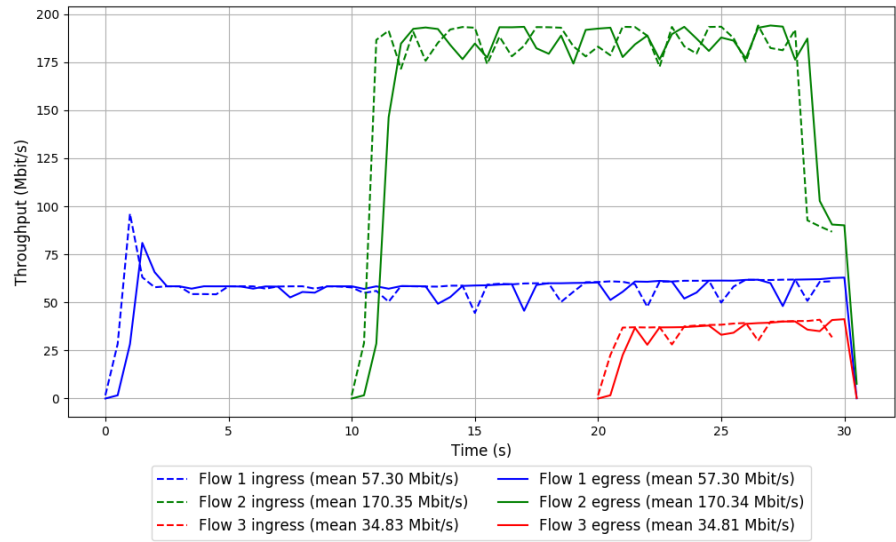


Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 09:29:37
End at: 2018-06-06 09:30:07
Local clock offset: -0.119 ms
Remote clock offset: -0.369 ms

Below is generated by plot.py at 2018-06-06 11:46:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 182.32 Mbit/s
95th percentile per-packet one-way delay: 74.653 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.30 Mbit/s
95th percentile per-packet one-way delay: 73.525 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 170.34 Mbit/s
95th percentile per-packet one-way delay: 75.170 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 34.81 Mbit/s
95th percentile per-packet one-way delay: 72.993 ms
Loss rate: 0.06%

Run 9: Report of TCP Vegas — Data Link

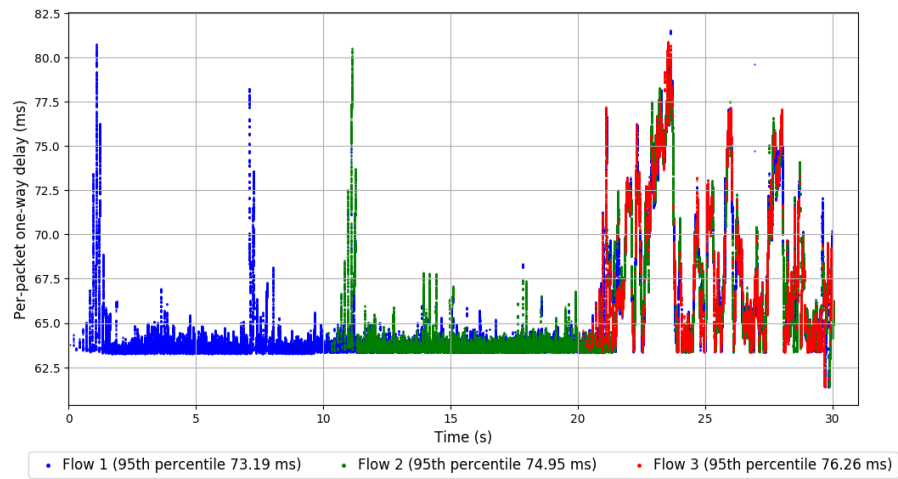
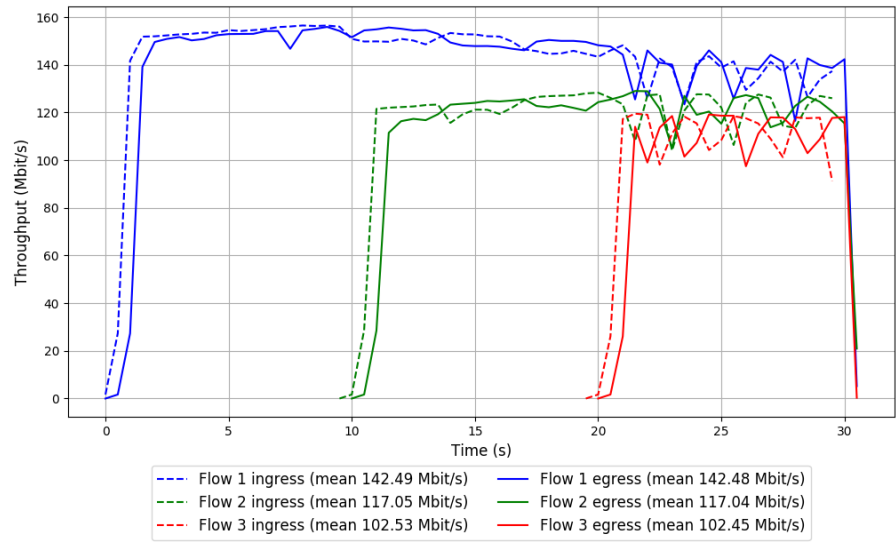


Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 09:52:11
End at: 2018-06-06 09:52:41
Local clock offset: -0.09 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-06-06 11:47:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 254.57 Mbit/s
95th percentile per-packet one-way delay: 74.794 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 142.48 Mbit/s
95th percentile per-packet one-way delay: 73.188 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 117.04 Mbit/s
95th percentile per-packet one-way delay: 74.951 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 102.45 Mbit/s
95th percentile per-packet one-way delay: 76.264 ms
Loss rate: 0.10%

Run 10: Report of TCP Vegas — Data Link

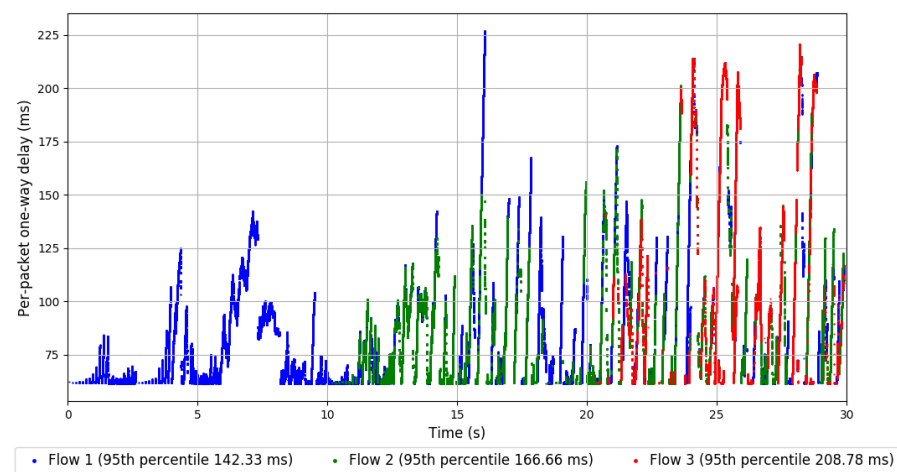
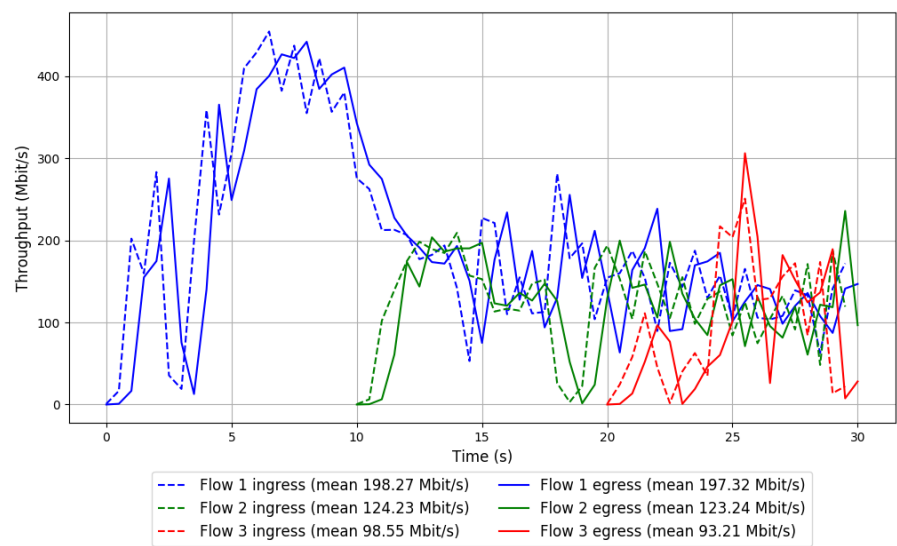


Run 1: Statistics of Verus

Start at: 2018-06-06 06:17:50
End at: 2018-06-06 06:18:20
Local clock offset: -0.115 ms
Remote clock offset: -0.383 ms

Below is generated by plot.py at 2018-06-06 11:49:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 309.76 Mbit/s
95th percentile per-packet one-way delay: 180.842 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 197.32 Mbit/s
95th percentile per-packet one-way delay: 142.331 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 123.24 Mbit/s
95th percentile per-packet one-way delay: 166.662 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 93.21 Mbit/s
95th percentile per-packet one-way delay: 208.782 ms
Loss rate: 5.52%

Run 1: Report of Verus — Data Link

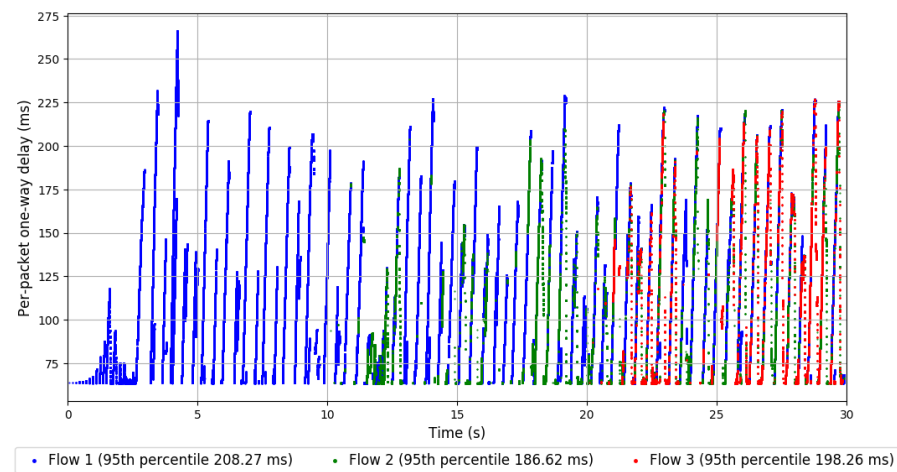
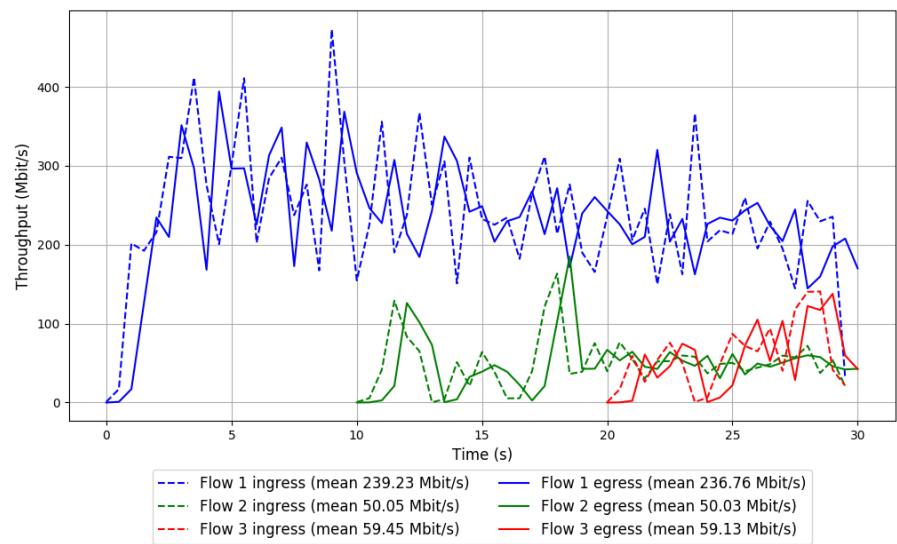


Run 2: Statistics of Verus

Start at: 2018-06-06 06:40:08
End at: 2018-06-06 06:40:38
Local clock offset: -0.091 ms
Remote clock offset: -0.397 ms

Below is generated by plot.py at 2018-06-06 11:49:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 289.23 Mbit/s
95th percentile per-packet one-way delay: 205.654 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 236.76 Mbit/s
95th percentile per-packet one-way delay: 208.269 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 50.03 Mbit/s
95th percentile per-packet one-way delay: 186.622 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 59.13 Mbit/s
95th percentile per-packet one-way delay: 198.258 ms
Loss rate: 0.52%

Run 2: Report of Verus — Data Link

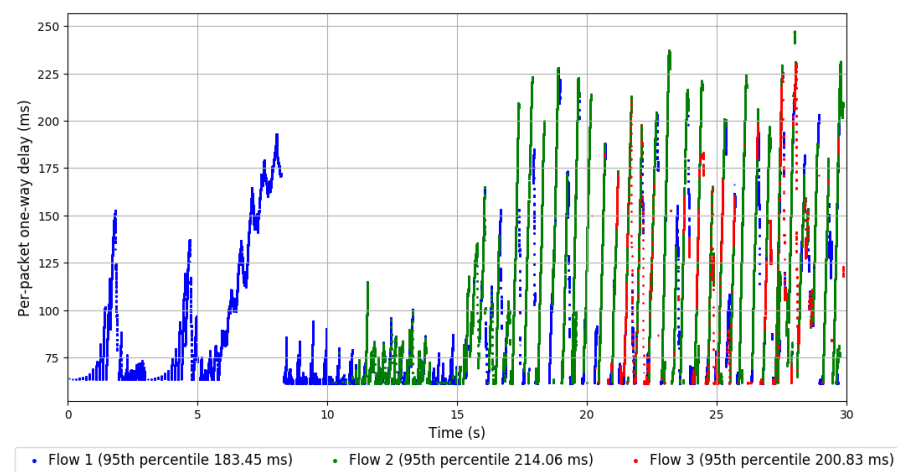
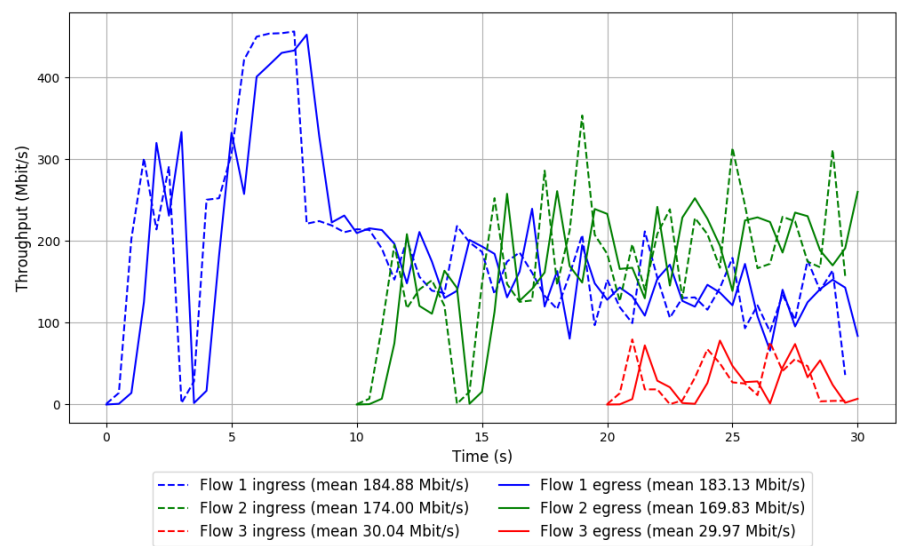


Run 3: Statistics of Verus

Start at: 2018-06-06 07:02:33
End at: 2018-06-06 07:03:03
Local clock offset: -0.064 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2018-06-06 11:50:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 305.43 Mbit/s
95th percentile per-packet one-way delay: 202.584 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 183.13 Mbit/s
95th percentile per-packet one-way delay: 183.447 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 169.83 Mbit/s
95th percentile per-packet one-way delay: 214.060 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 29.97 Mbit/s
95th percentile per-packet one-way delay: 200.828 ms
Loss rate: 0.56%

Run 3: Report of Verus — Data Link

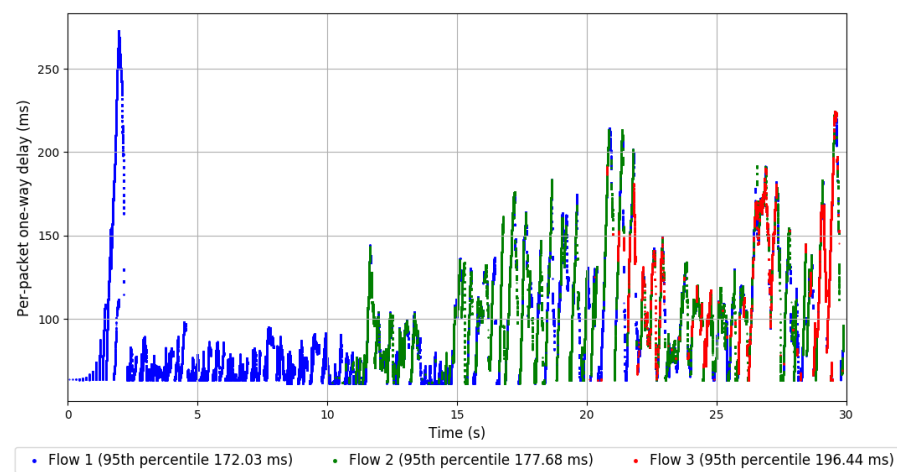
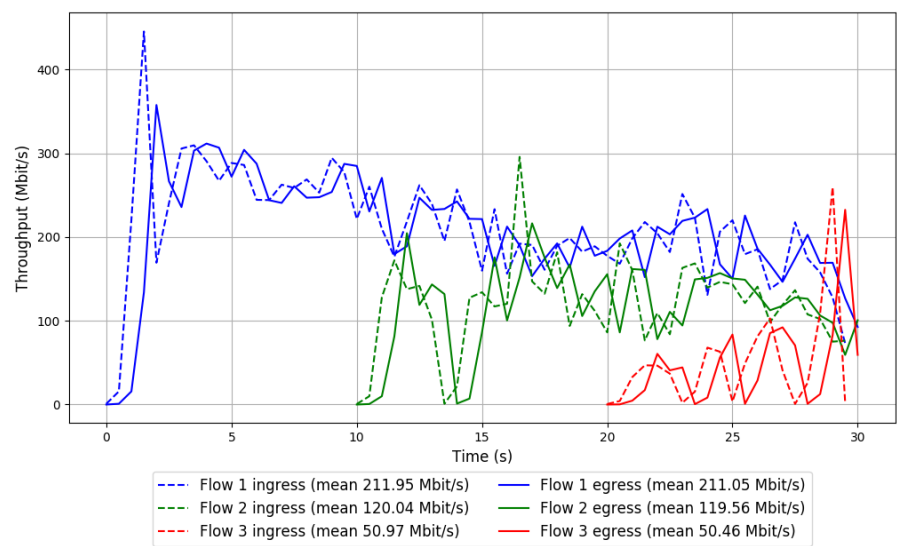


Run 4: Statistics of Verus

Start at: 2018-06-06 07:25:02
End at: 2018-06-06 07:25:32
Local clock offset: 0.007 ms
Remote clock offset: -0.639 ms

Below is generated by plot.py at 2018-06-06 11:50:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.96 Mbit/s
95th percentile per-packet one-way delay: 175.738 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 211.05 Mbit/s
95th percentile per-packet one-way delay: 172.029 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 119.56 Mbit/s
95th percentile per-packet one-way delay: 177.679 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 196.441 ms
Loss rate: 0.94%

Run 4: Report of Verus — Data Link

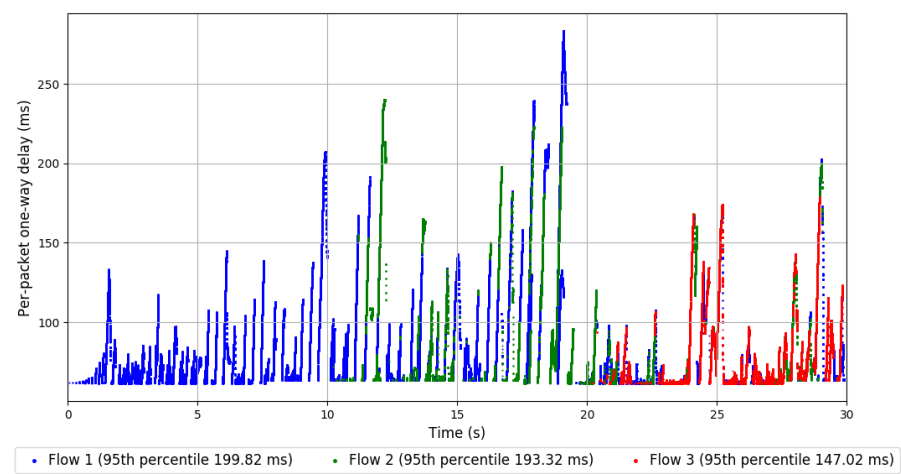
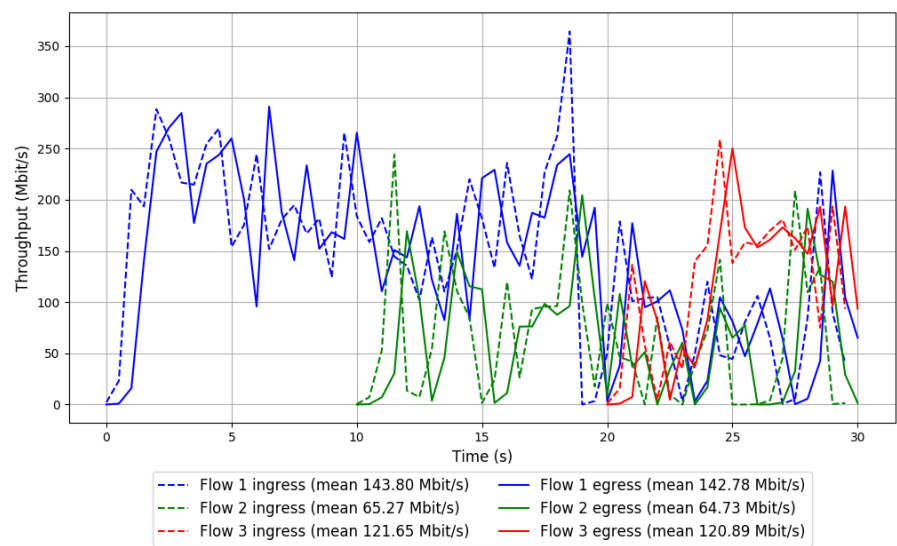


Run 5: Statistics of Verus

Start at: 2018-06-06 07:47:23
End at: 2018-06-06 07:47:53
Local clock offset: -0.04 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-06-06 11:50:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 225.01 Mbit/s
95th percentile per-packet one-way delay: 191.383 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 142.78 Mbit/s
95th percentile per-packet one-way delay: 199.820 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 64.73 Mbit/s
95th percentile per-packet one-way delay: 193.324 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 120.89 Mbit/s
95th percentile per-packet one-way delay: 147.022 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-06 08:09:38

End at: 2018-06-06 08:10:08

Local clock offset: -0.047 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-06 11:51:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 302.23 Mbit/s

95th percentile per-packet one-way delay: 182.623 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 193.25 Mbit/s

95th percentile per-packet one-way delay: 173.617 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 119.09 Mbit/s

95th percentile per-packet one-way delay: 186.190 ms

Loss rate: 0.12%

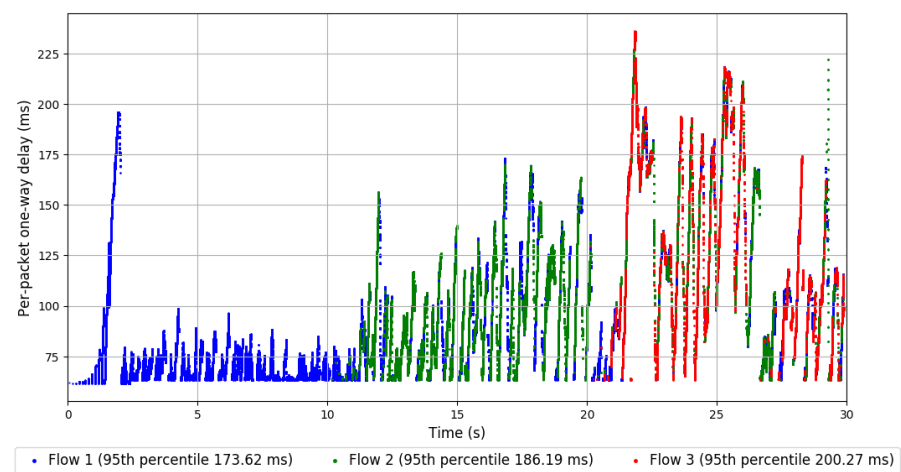
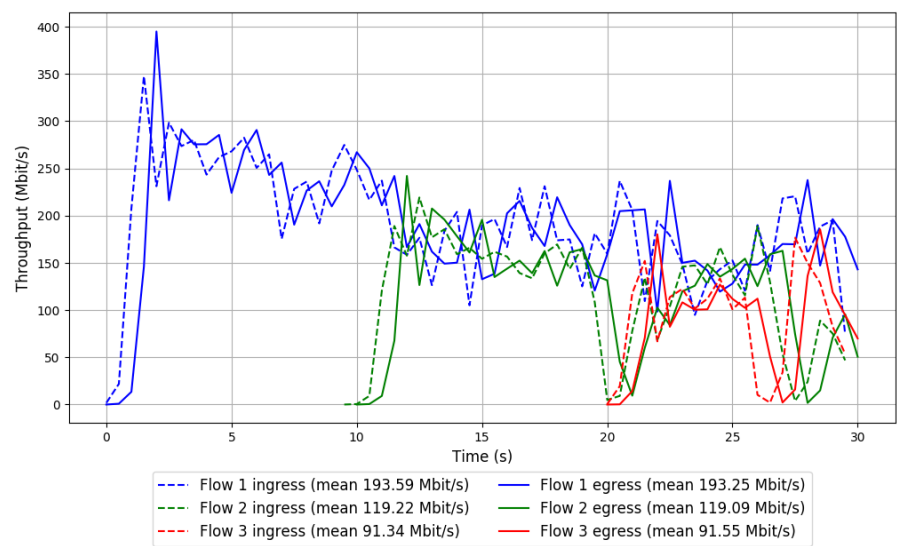
-- Flow 3:

Average throughput: 91.55 Mbit/s

95th percentile per-packet one-way delay: 200.269 ms

Loss rate: 0.41%

Run 6: Report of Verus — Data Link

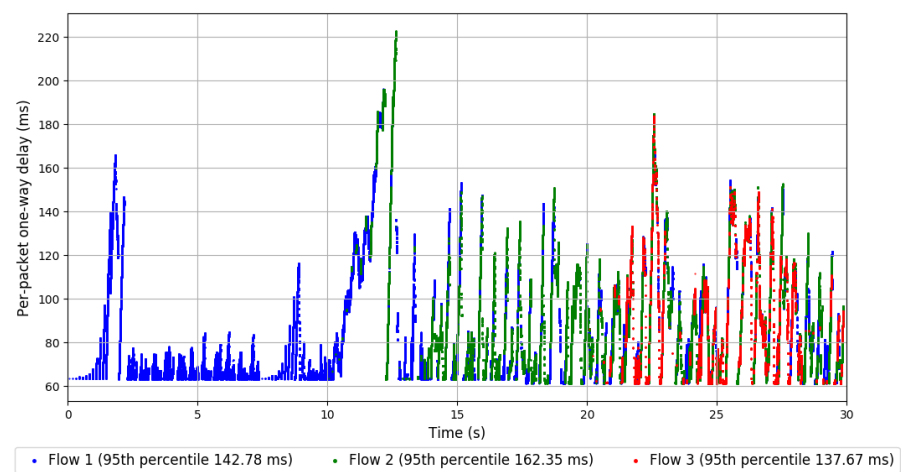
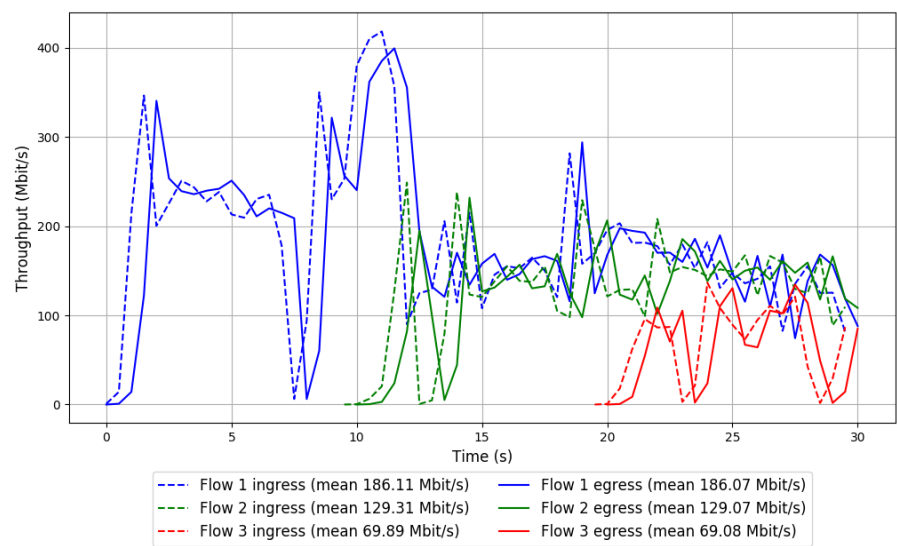


Run 7: Statistics of Verus

Start at: 2018-06-06 08:32:03
End at: 2018-06-06 08:32:33
Local clock offset: -0.05 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-06 11:51:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 293.70 Mbit/s
95th percentile per-packet one-way delay: 145.850 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 186.07 Mbit/s
95th percentile per-packet one-way delay: 142.783 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 129.07 Mbit/s
95th percentile per-packet one-way delay: 162.352 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 69.08 Mbit/s
95th percentile per-packet one-way delay: 137.666 ms
Loss rate: 1.22%

Run 7: Report of Verus — Data Link

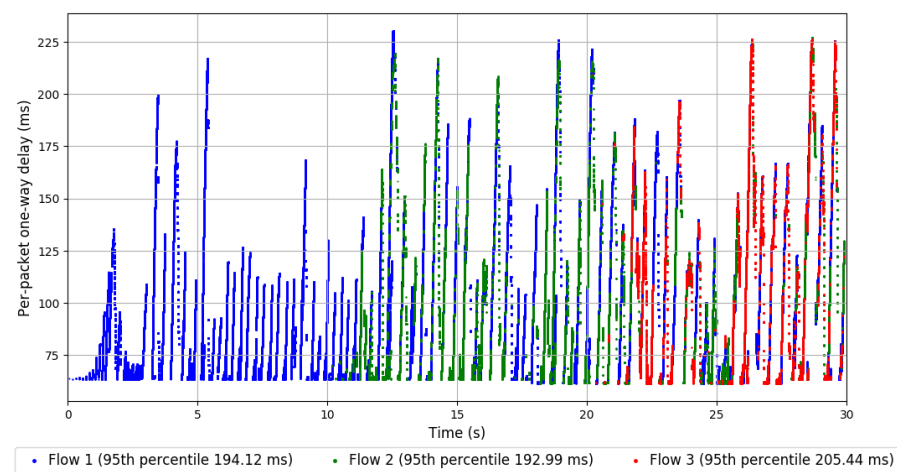
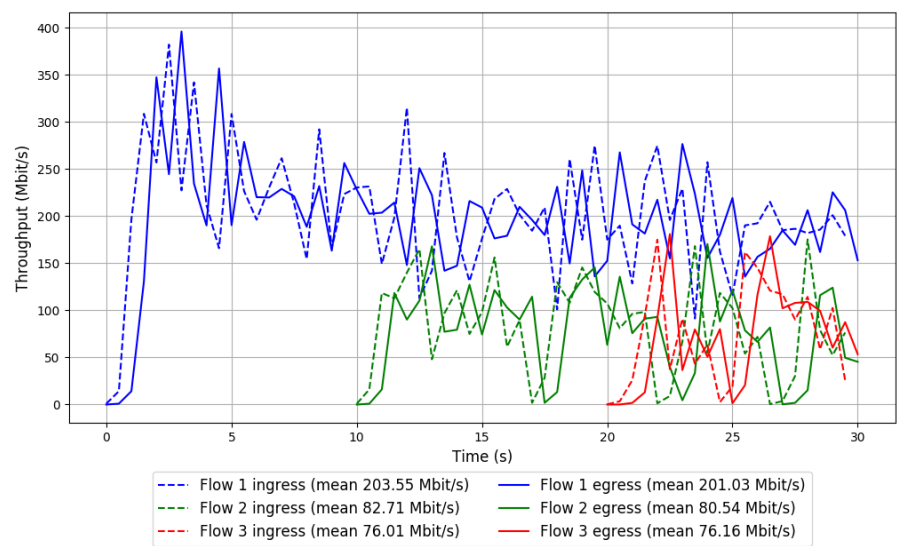


Run 8: Statistics of Verus

Start at: 2018-06-06 08:54:33
End at: 2018-06-06 08:55:03
Local clock offset: -0.046 ms
Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-06-06 11:52:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 279.23 Mbit/s
95th percentile per-packet one-way delay: 194.557 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 201.03 Mbit/s
95th percentile per-packet one-way delay: 194.122 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 80.54 Mbit/s
95th percentile per-packet one-way delay: 192.985 ms
Loss rate: 2.63%
-- Flow 3:
Average throughput: 76.16 Mbit/s
95th percentile per-packet one-way delay: 205.435 ms
Loss rate: 1.39%

Run 8: Report of Verus — Data Link

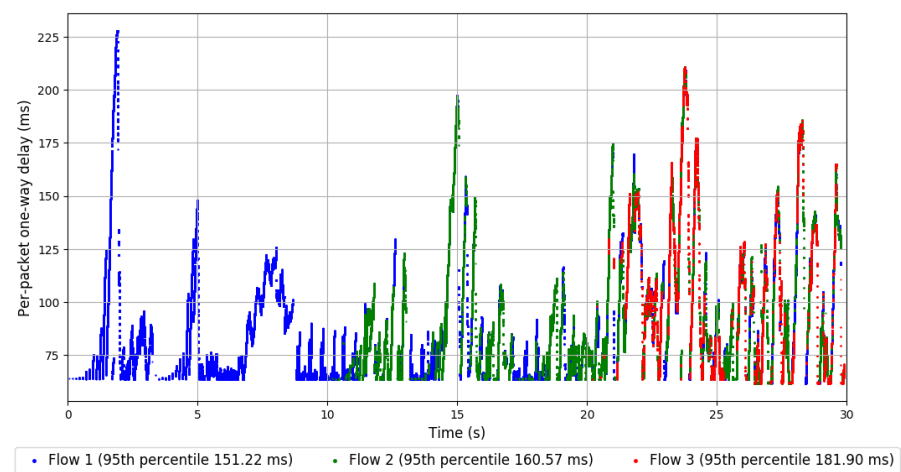
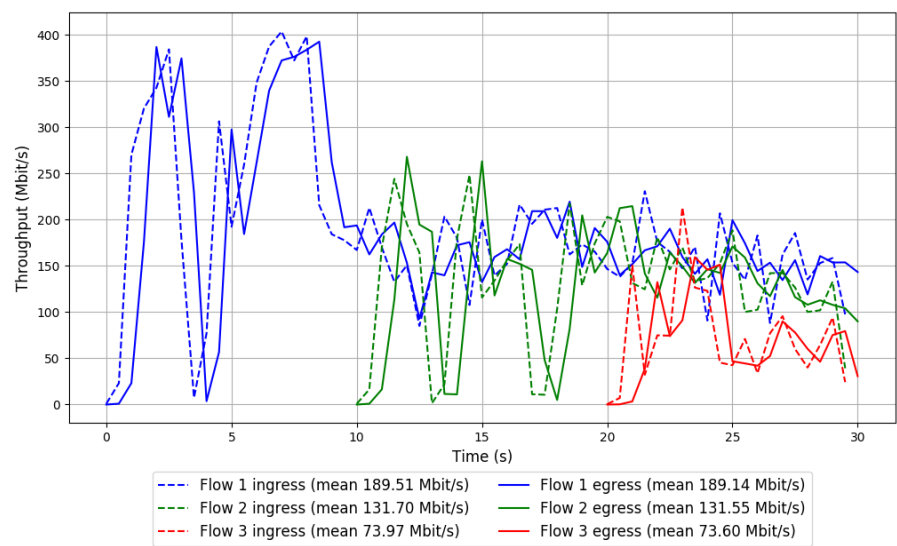


Run 9: Statistics of Verus

Start at: 2018-06-06 09:17:04
End at: 2018-06-06 09:17:34
Local clock offset: -0.171 ms
Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-06 11:54:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 300.64 Mbit/s
95th percentile per-packet one-way delay: 161.792 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 189.14 Mbit/s
95th percentile per-packet one-way delay: 151.216 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 131.55 Mbit/s
95th percentile per-packet one-way delay: 160.567 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 73.60 Mbit/s
95th percentile per-packet one-way delay: 181.898 ms
Loss rate: 0.64%

Run 9: Report of Verus — Data Link

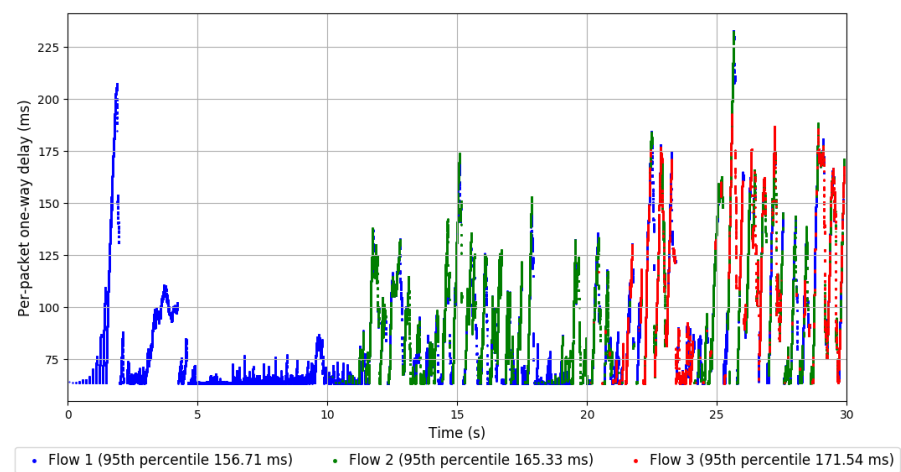
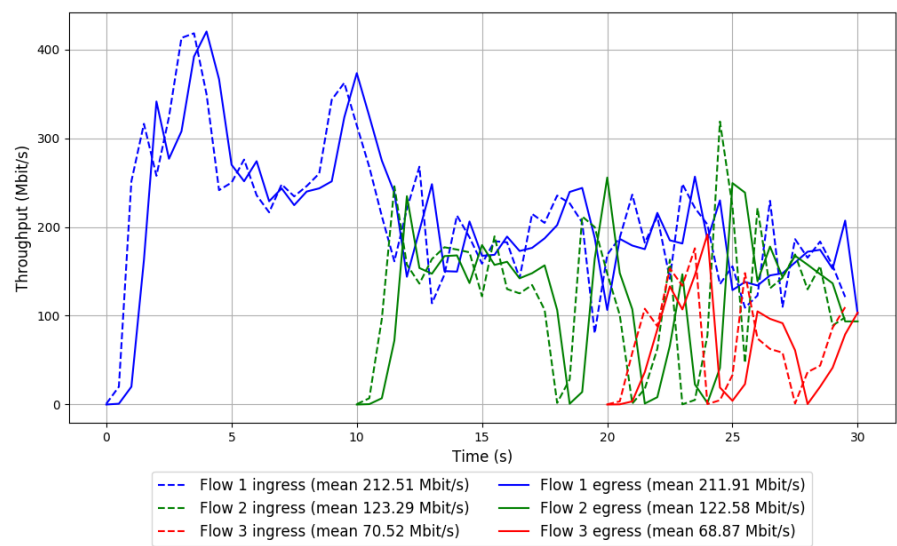


Run 10: Statistics of Verus

Start at: 2018-06-06 09:39:25
End at: 2018-06-06 09:39:55
Local clock offset: -0.109 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-06-06 11:54:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 315.96 Mbit/s
95th percentile per-packet one-way delay: 161.363 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 211.91 Mbit/s
95th percentile per-packet one-way delay: 156.711 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 122.58 Mbit/s
95th percentile per-packet one-way delay: 165.332 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 68.87 Mbit/s
95th percentile per-packet one-way delay: 171.539 ms
Loss rate: 2.39%

Run 10: Report of Verus — Data Link

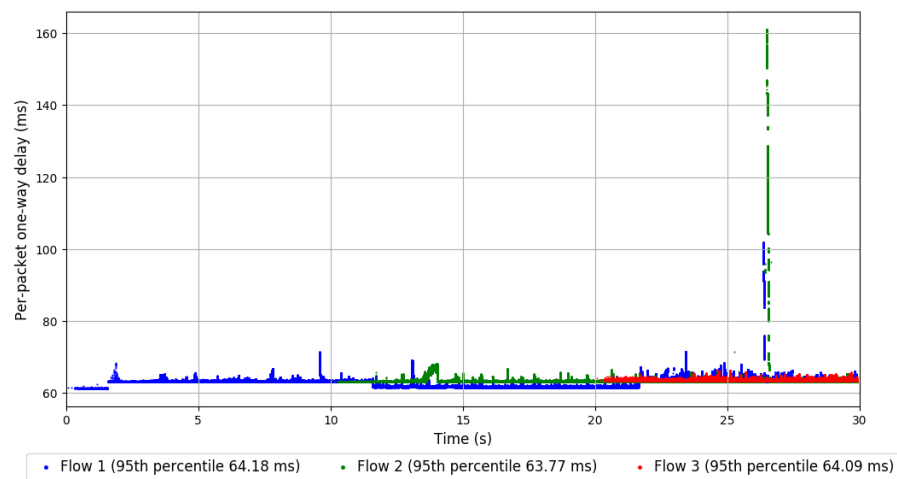
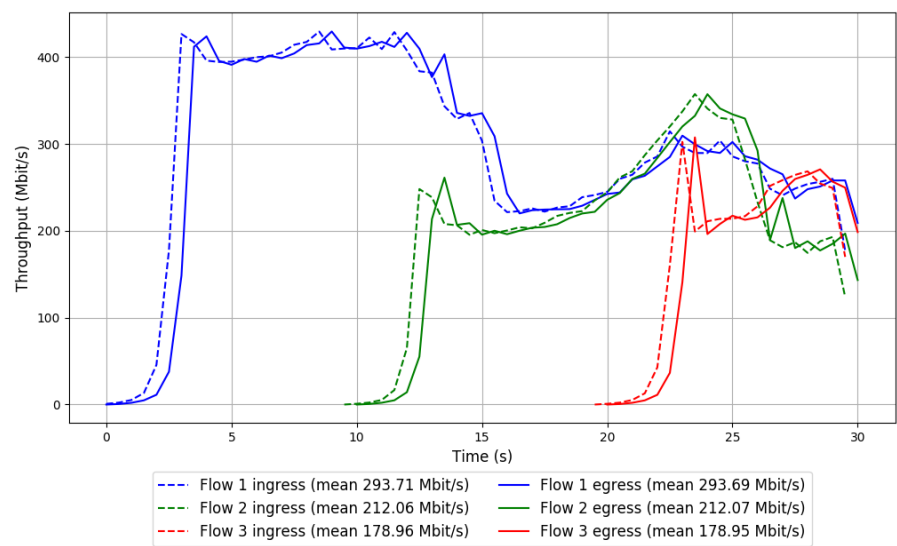


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 06:34:49
End at: 2018-06-06 06:35:19
Local clock offset: -0.08 ms
Remote clock offset: -0.474 ms

Below is generated by plot.py at 2018-06-06 11:58:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 493.93 Mbit/s
95th percentile per-packet one-way delay: 64.084 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 293.69 Mbit/s
95th percentile per-packet one-way delay: 64.176 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 212.07 Mbit/s
95th percentile per-packet one-way delay: 63.774 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 178.95 Mbit/s
95th percentile per-packet one-way delay: 64.094 ms
Loss rate: 0.03%

Run 1: Report of PCC-Vivace — Data Link

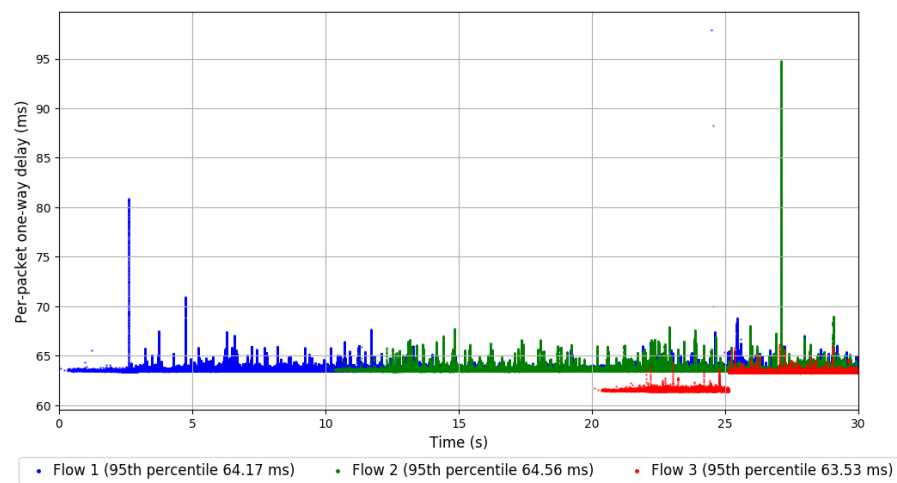
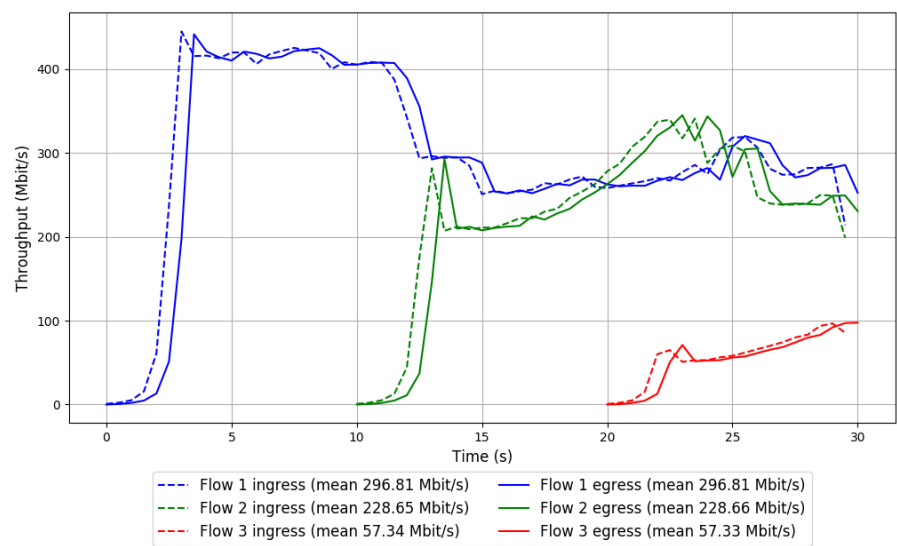


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 06:57:16
End at: 2018-06-06 06:57:46
Local clock offset: -0.073 ms
Remote clock offset: -0.367 ms

Below is generated by plot.py at 2018-06-06 11:58:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 467.76 Mbit/s
95th percentile per-packet one-way delay: 64.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 296.81 Mbit/s
95th percentile per-packet one-way delay: 64.171 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 228.66 Mbit/s
95th percentile per-packet one-way delay: 64.563 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 57.33 Mbit/s
95th percentile per-packet one-way delay: 63.530 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 07:19:44

End at: 2018-06-06 07:20:14

Local clock offset: -0.045 ms

Remote clock offset: -0.5 ms

Below is generated by plot.py at 2018-06-06 11:58:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.14 Mbit/s

95th percentile per-packet one-way delay: 66.687 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 304.63 Mbit/s

95th percentile per-packet one-way delay: 66.756 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 170.06 Mbit/s

95th percentile per-packet one-way delay: 64.874 ms

Loss rate: 0.00%

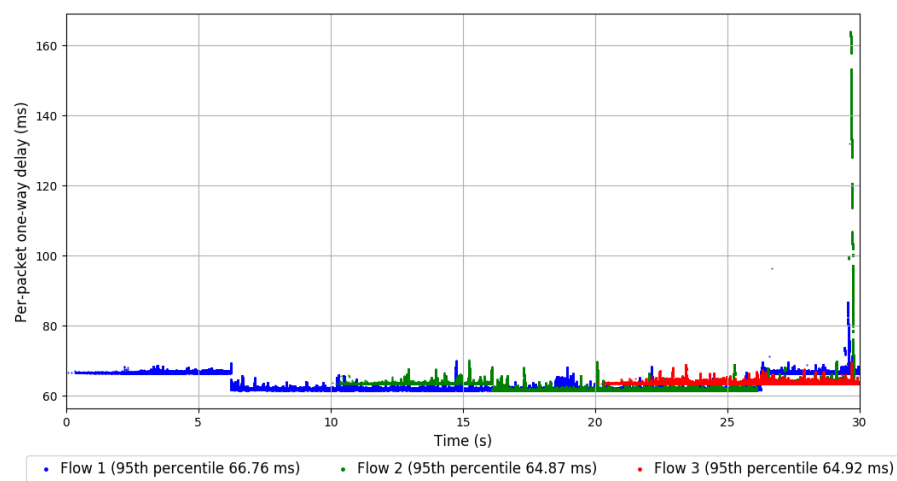
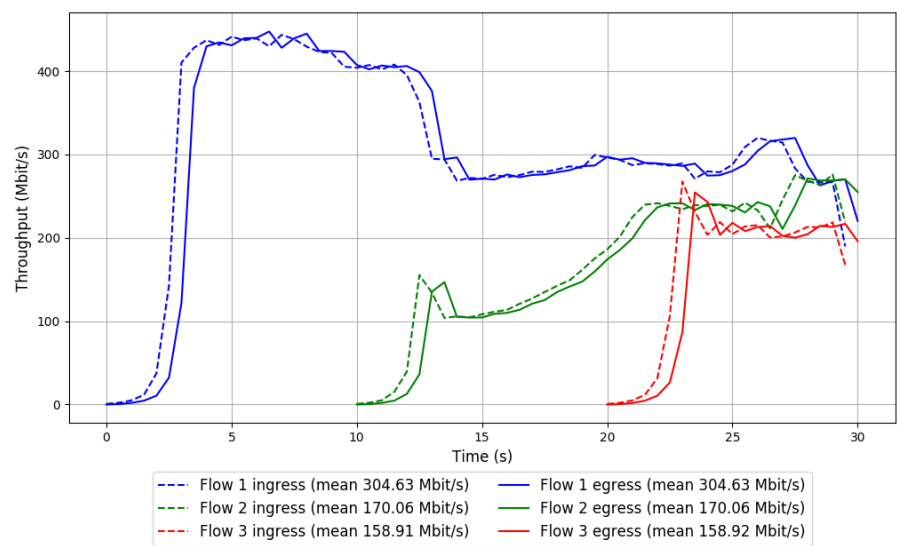
-- Flow 3:

Average throughput: 158.92 Mbit/s

95th percentile per-packet one-way delay: 64.922 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

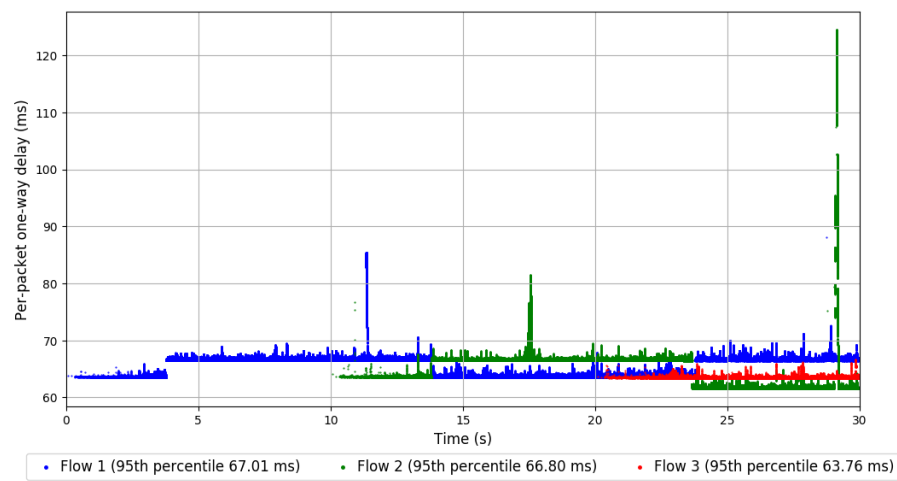
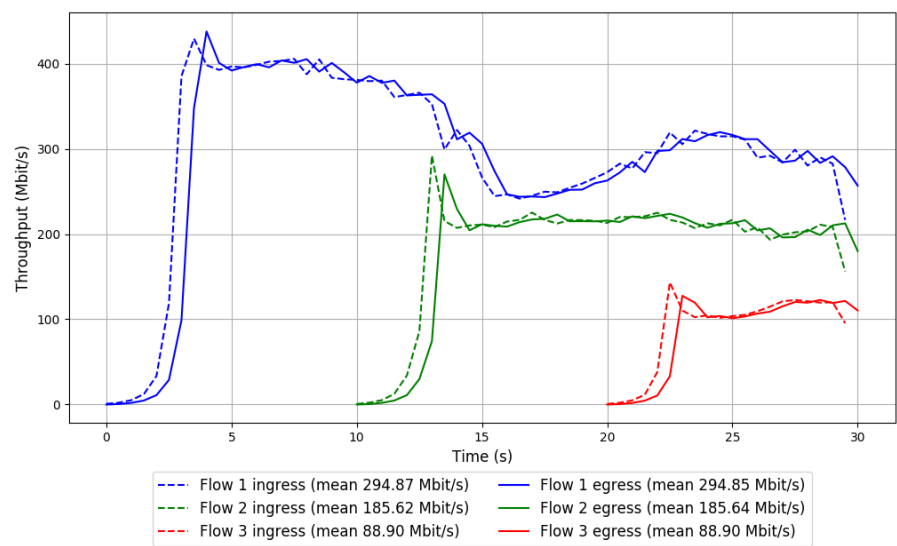


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 07:42:07
End at: 2018-06-06 07:42:37
Local clock offset: 0.003 ms
Remote clock offset: -0.474 ms

Below is generated by plot.py at 2018-06-06 11:59:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 447.60 Mbit/s
95th percentile per-packet one-way delay: 66.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 294.85 Mbit/s
95th percentile per-packet one-way delay: 67.010 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 185.64 Mbit/s
95th percentile per-packet one-way delay: 66.795 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 88.90 Mbit/s
95th percentile per-packet one-way delay: 63.756 ms
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 08:04:20

End at: 2018-06-06 08:04:50

Local clock offset: -0.058 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-06 12:00:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 457.00 Mbit/s

95th percentile per-packet one-way delay: 66.662 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 286.07 Mbit/s

95th percentile per-packet one-way delay: 66.695 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 225.03 Mbit/s

95th percentile per-packet one-way delay: 64.219 ms

Loss rate: 0.00%

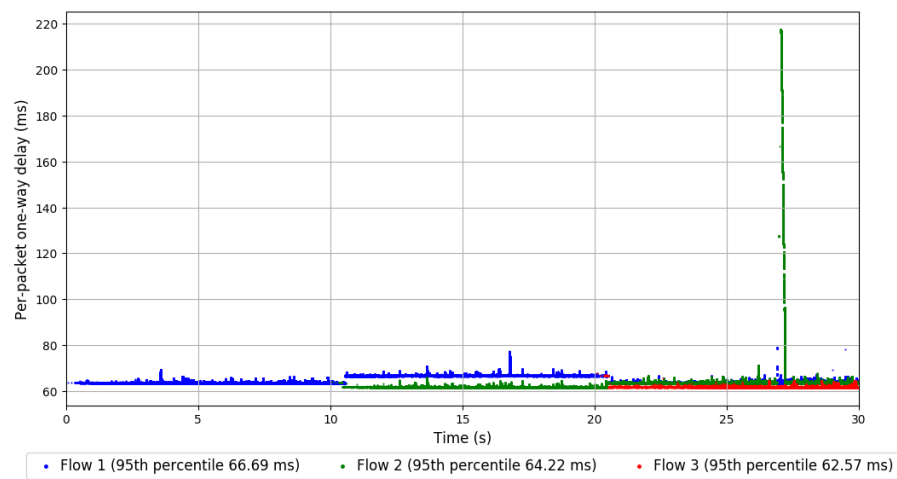
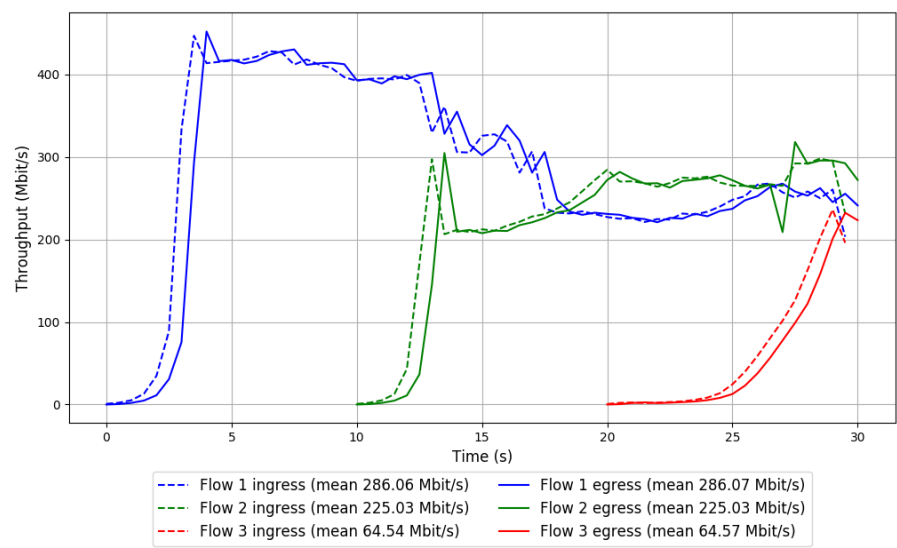
-- Flow 3:

Average throughput: 64.57 Mbit/s

95th percentile per-packet one-way delay: 62.569 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 08:26:43

End at: 2018-06-06 08:27:13

Local clock offset: -0.062 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-06-06 12:01:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 518.24 Mbit/s

95th percentile per-packet one-way delay: 64.815 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 308.57 Mbit/s

95th percentile per-packet one-way delay: 64.663 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 230.56 Mbit/s

95th percentile per-packet one-way delay: 64.933 ms

Loss rate: 0.00%

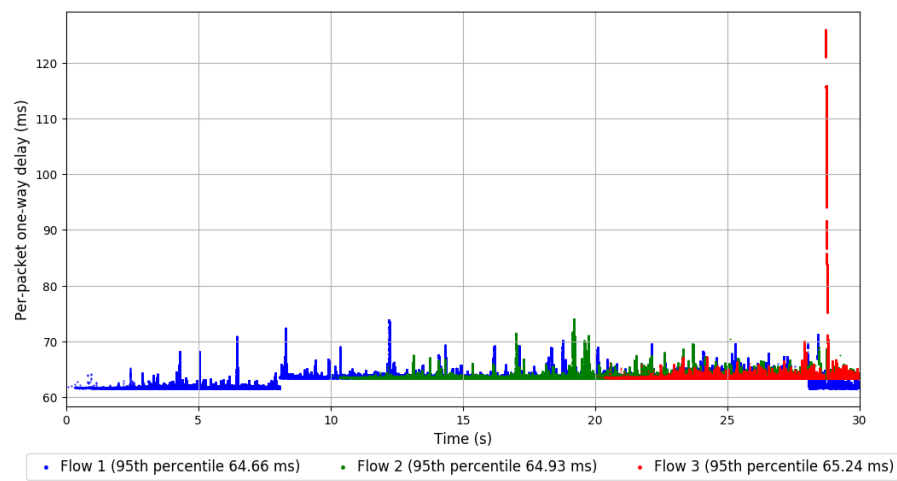
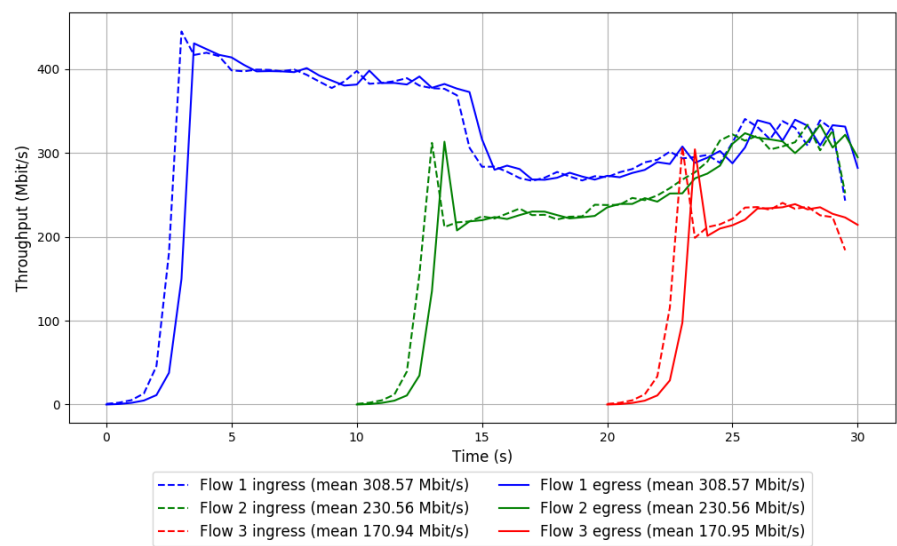
-- Flow 3:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 65.237 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 08:49:12

End at: 2018-06-06 08:49:42

Local clock offset: -0.062 ms

Remote clock offset: 0.292 ms

Below is generated by plot.py at 2018-06-06 12:02:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 517.85 Mbit/s

95th percentile per-packet one-way delay: 65.550 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 310.62 Mbit/s

95th percentile per-packet one-way delay: 72.790 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 230.59 Mbit/s

95th percentile per-packet one-way delay: 64.240 ms

Loss rate: 0.00%

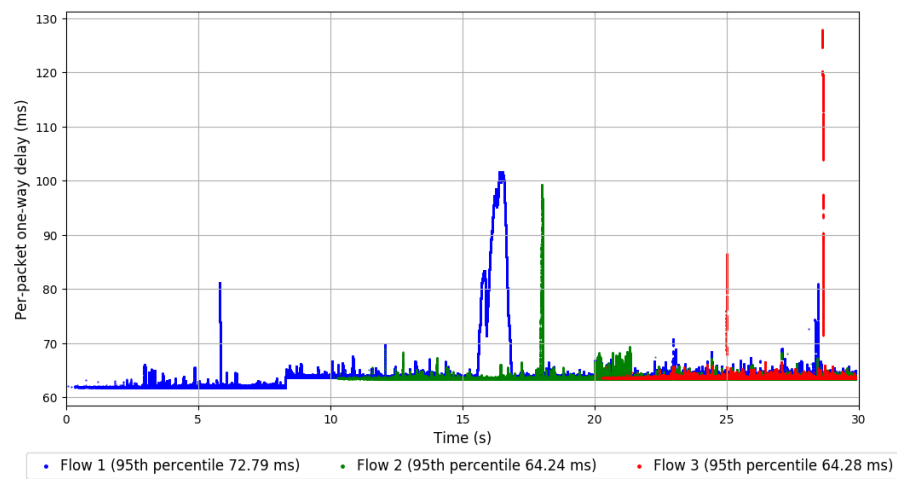
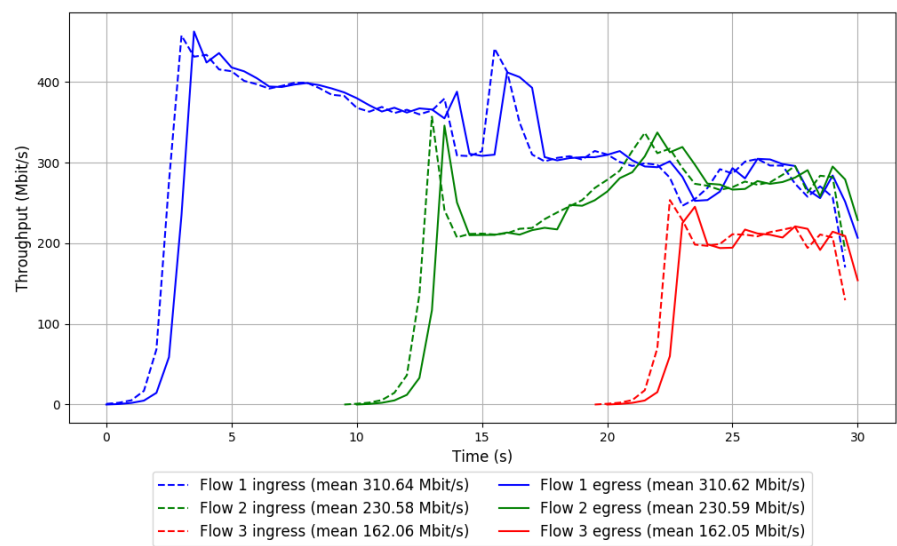
-- Flow 3:

Average throughput: 162.05 Mbit/s

95th percentile per-packet one-way delay: 64.283 ms

Loss rate: 0.02%

Run 7: Report of PCC-Vivace — Data Link

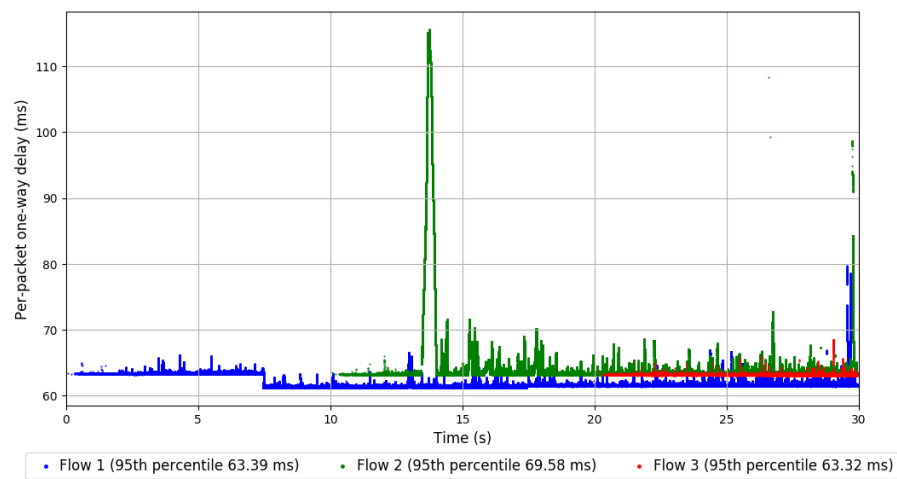
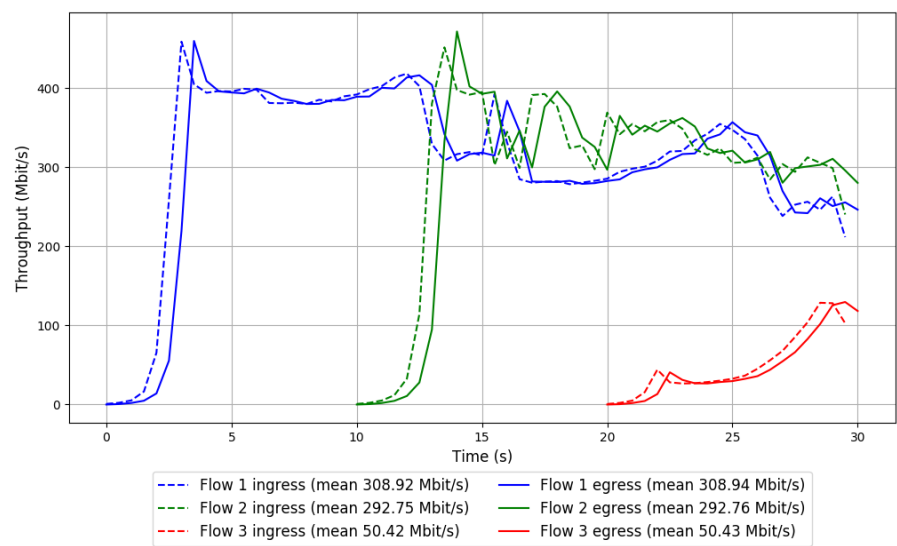


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 09:11:43
End at: 2018-06-06 09:12:13
Local clock offset: -0.121 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2018-06-06 12:02:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 520.23 Mbit/s
95th percentile per-packet one-way delay: 64.905 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 308.94 Mbit/s
95th percentile per-packet one-way delay: 63.394 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 292.76 Mbit/s
95th percentile per-packet one-way delay: 69.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 50.43 Mbit/s
95th percentile per-packet one-way delay: 63.316 ms
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

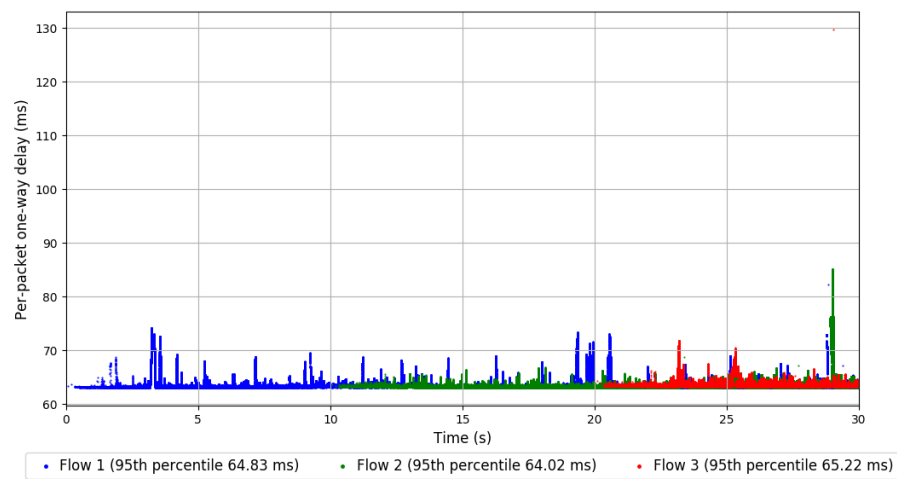
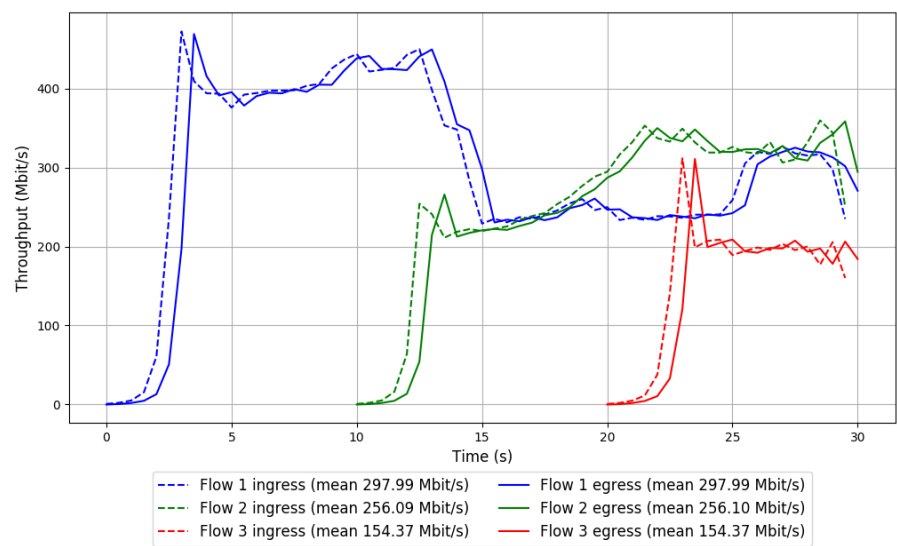


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 09:34:03
End at: 2018-06-06 09:34:33
Local clock offset: -0.116 ms
Remote clock offset: -0.323 ms

Below is generated by plot.py at 2018-06-06 12:03:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 519.19 Mbit/s
95th percentile per-packet one-way delay: 64.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 297.99 Mbit/s
95th percentile per-packet one-way delay: 64.826 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 256.10 Mbit/s
95th percentile per-packet one-way delay: 64.021 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 154.37 Mbit/s
95th percentile per-packet one-way delay: 65.225 ms
Loss rate: 0.01%

Run 9: Report of PCC-Vivace — Data Link

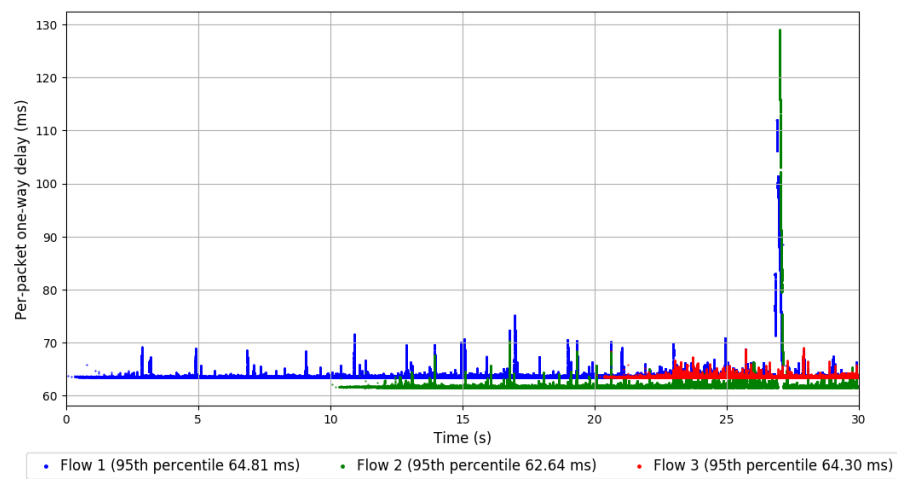
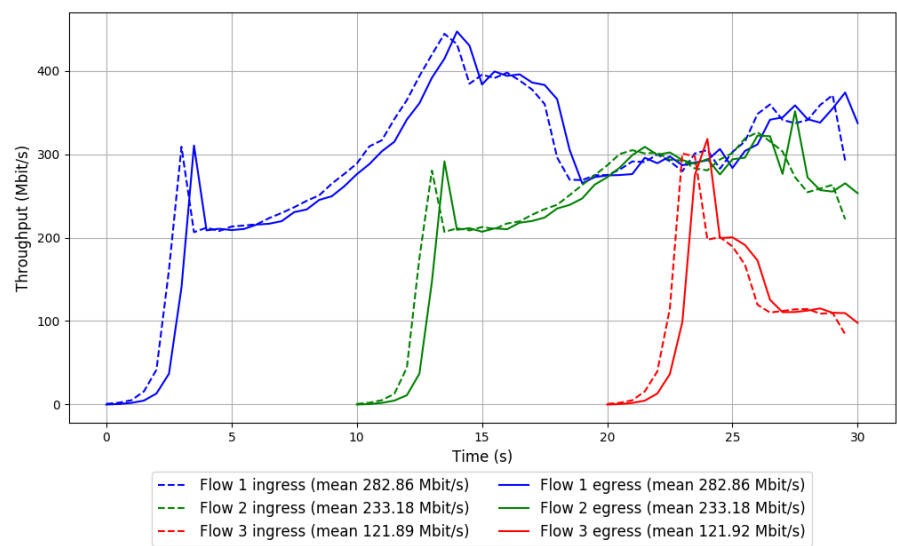


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 09:56:42
End at: 2018-06-06 09:57:12
Local clock offset: -0.094 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-06 12:03:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 478.16 Mbit/s
95th percentile per-packet one-way delay: 64.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 282.86 Mbit/s
95th percentile per-packet one-way delay: 64.814 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 233.18 Mbit/s
95th percentile per-packet one-way delay: 62.638 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 121.92 Mbit/s
95th percentile per-packet one-way delay: 64.297 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

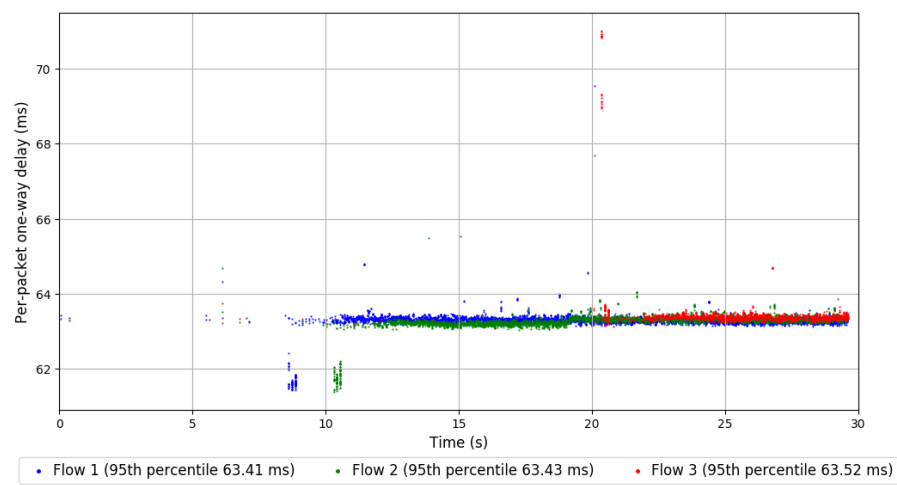
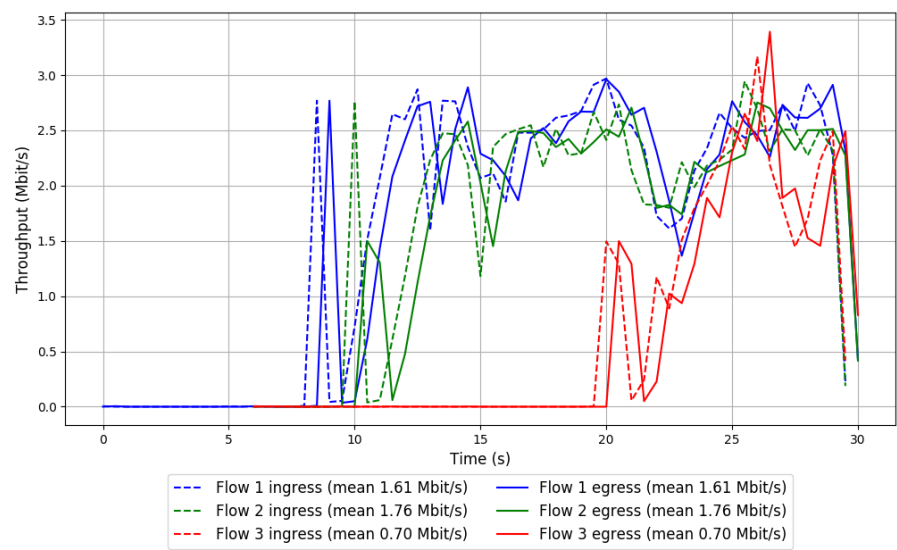


Run 1: Statistics of WebRTC media

Start at: 2018-06-06 06:16:41
End at: 2018-06-06 06:17:11
Local clock offset: -0.072 ms
Remote clock offset: -0.535 ms

Below is generated by plot.py at 2018-06-06 12:03:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.57 Mbit/s
95th percentile per-packet one-way delay: 63.448 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 63.414 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 63.433 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 63.519 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

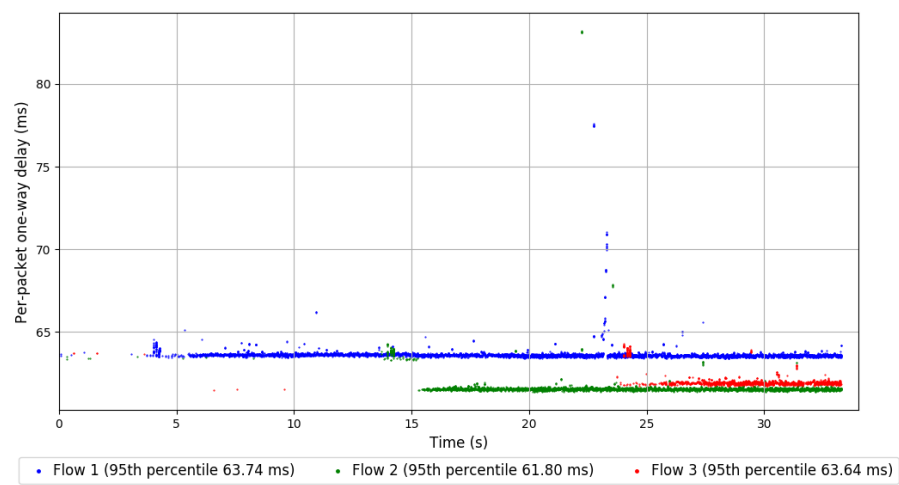
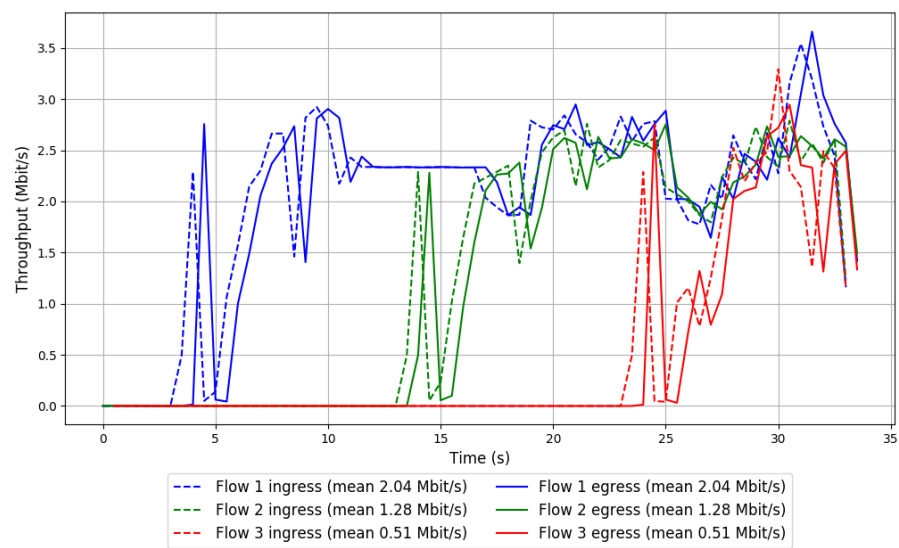


Run 2: Statistics of WebRTC media

Start at: 2018-06-06 06:38:59
End at: 2018-06-06 06:39:29
Local clock offset: -0.045 ms
Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-06-06 12:03:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 63.736 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 61.803 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.637 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

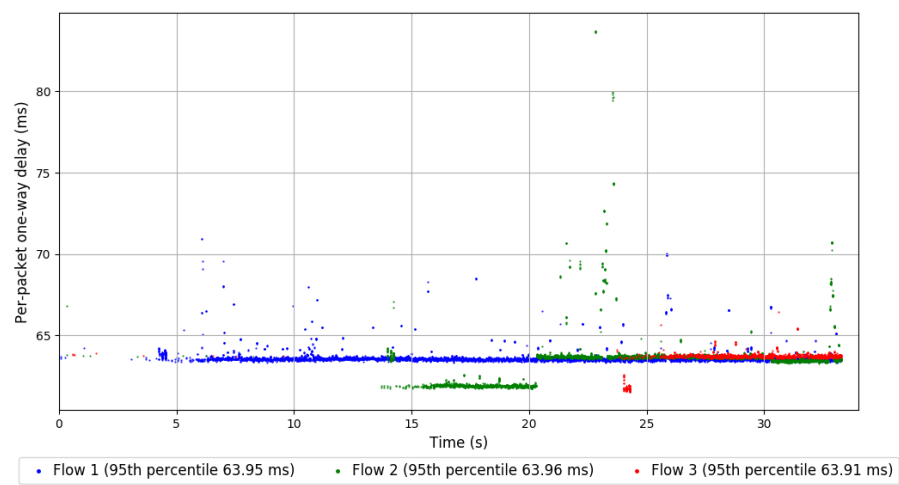
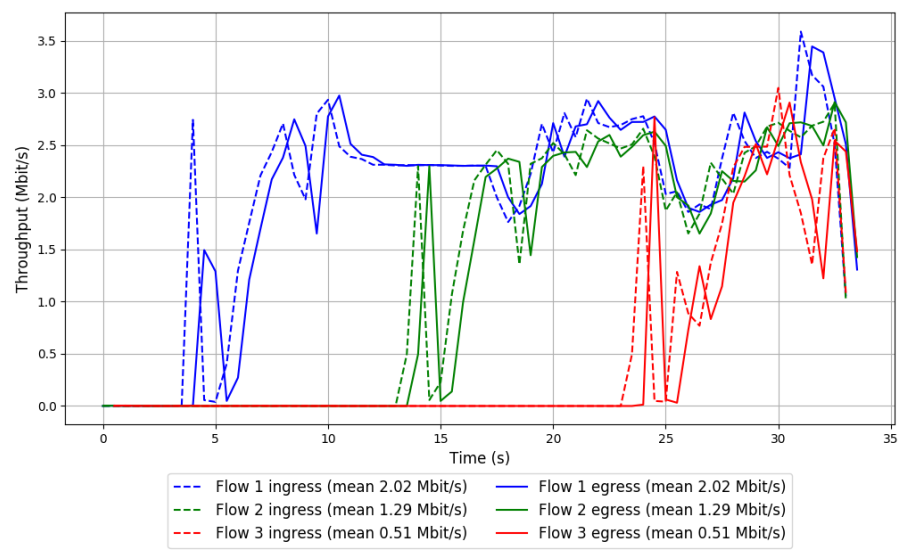


Run 3: Statistics of WebRTC media

Start at: 2018-06-06 07:01:24
End at: 2018-06-06 07:01:54
Local clock offset: -0.121 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2018-06-06 12:03:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 63.944 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 63.947 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 63.960 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.914 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-06 07:23:53

End at: 2018-06-06 07:24:23

Local clock offset: 0.007 ms

Remote clock offset: -0.63 ms

Below is generated by plot.py at 2018-06-06 12:03:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 66.542 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 66.561 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 63.627 ms

Loss rate: 0.00%

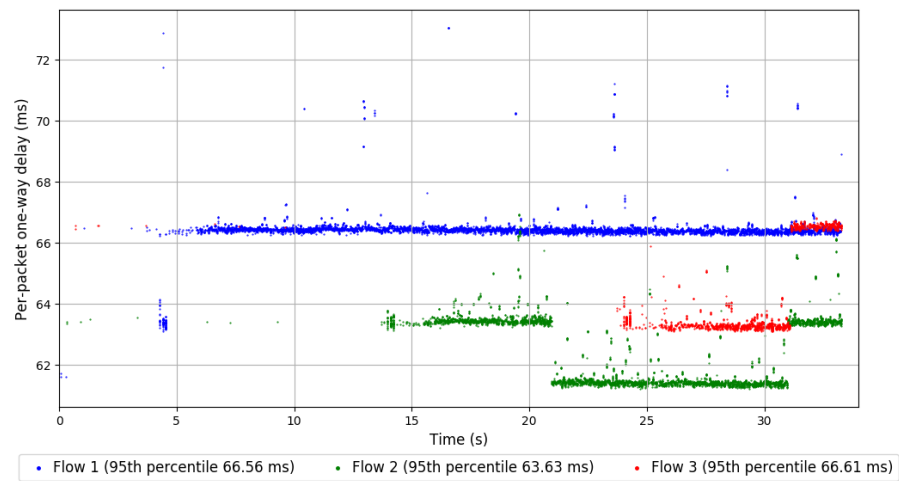
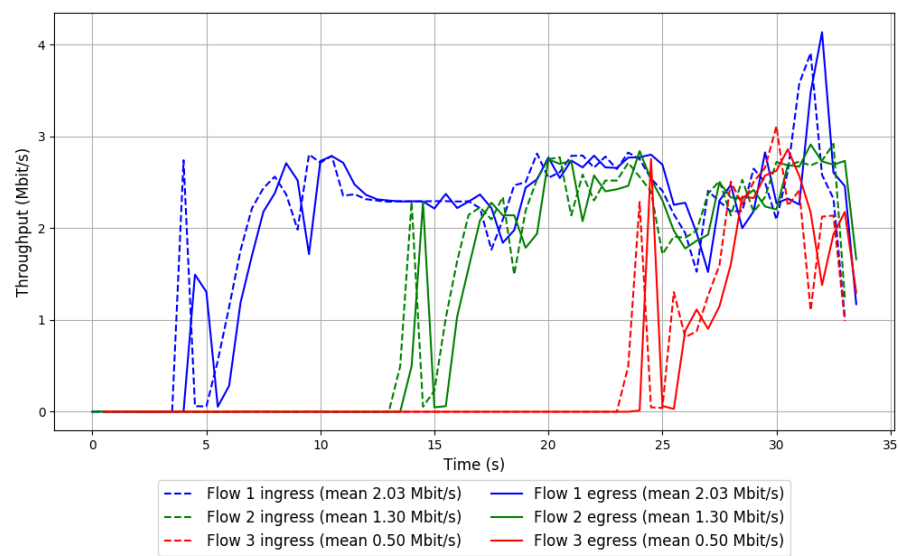
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 66.606 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

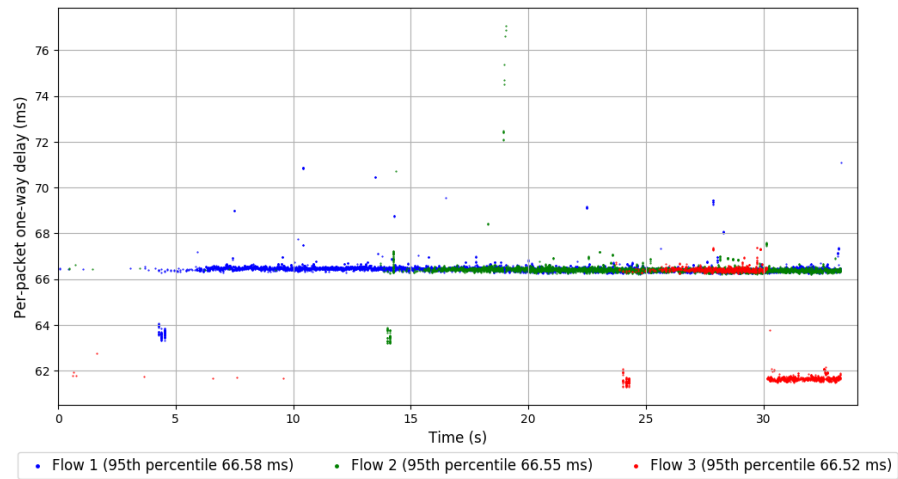
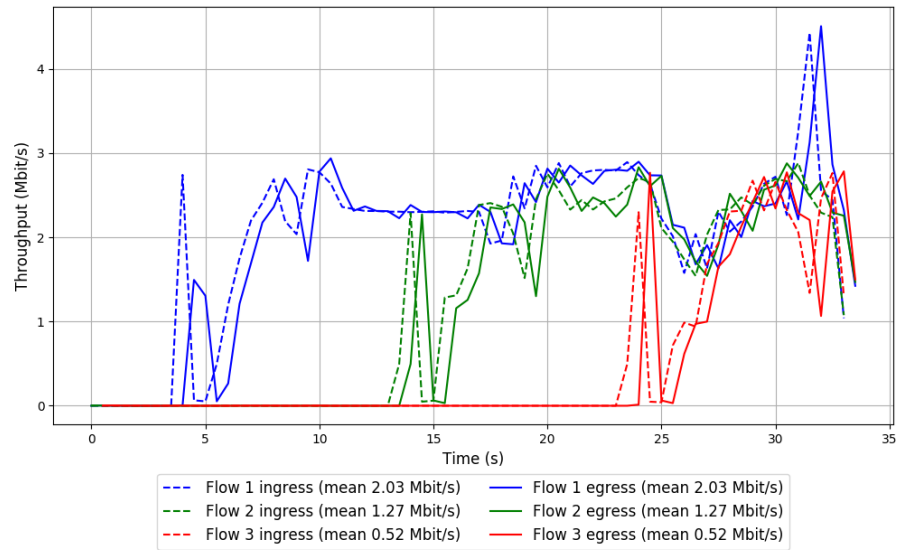


Run 5: Statistics of WebRTC media

Start at: 2018-06-06 07:46:14
End at: 2018-06-06 07:46:44
Local clock offset: -0.006 ms
Remote clock offset: -0.448 ms

Below is generated by plot.py at 2018-06-06 12:03:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 66.568 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.03 Mbit/s
95th percentile per-packet one-way delay: 66.580 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 66.551 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 66.520 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-06 08:08:29

End at: 2018-06-06 08:08:59

Local clock offset: -0.059 ms

Remote clock offset: 0.0 ms

Below is generated by plot.py at 2018-06-06 12:03:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 4.09 Mbit/s

95th percentile per-packet one-way delay: 66.667 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 66.675 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.36 Mbit/s

95th percentile per-packet one-way delay: 66.668 ms

Loss rate: 0.00%

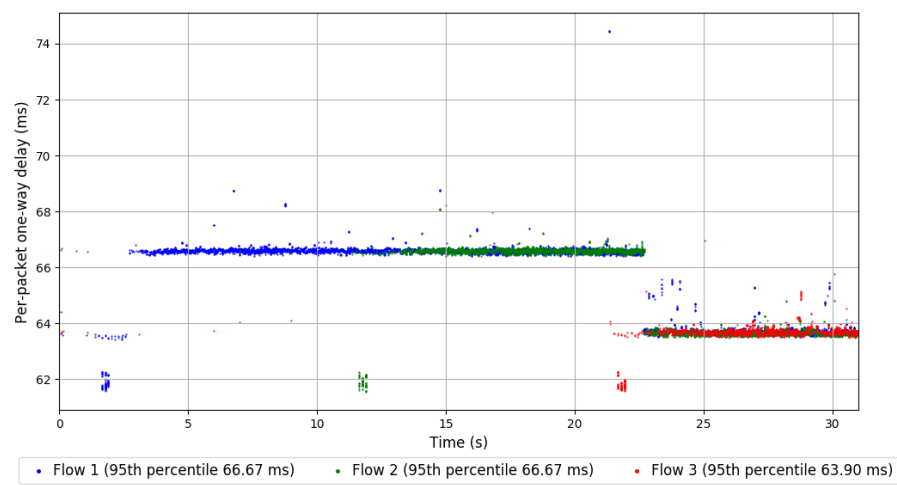
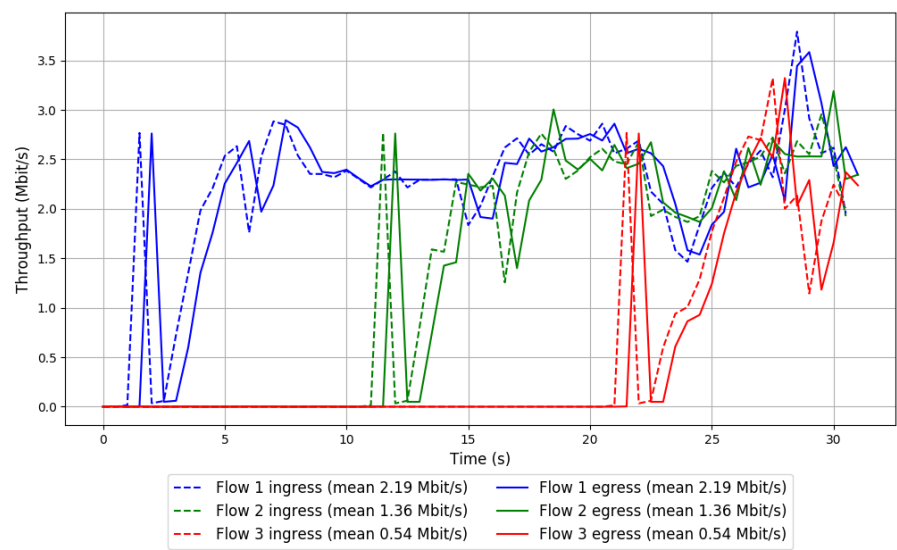
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 63.898 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-06 08:30:54

End at: 2018-06-06 08:31:24

Local clock offset: -0.027 ms

Remote clock offset: 0.177 ms

Below is generated by plot.py at 2018-06-06 12:03:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.06 Mbit/s

95th percentile per-packet one-way delay: 63.948 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 63.641 ms

Loss rate: 0.02%

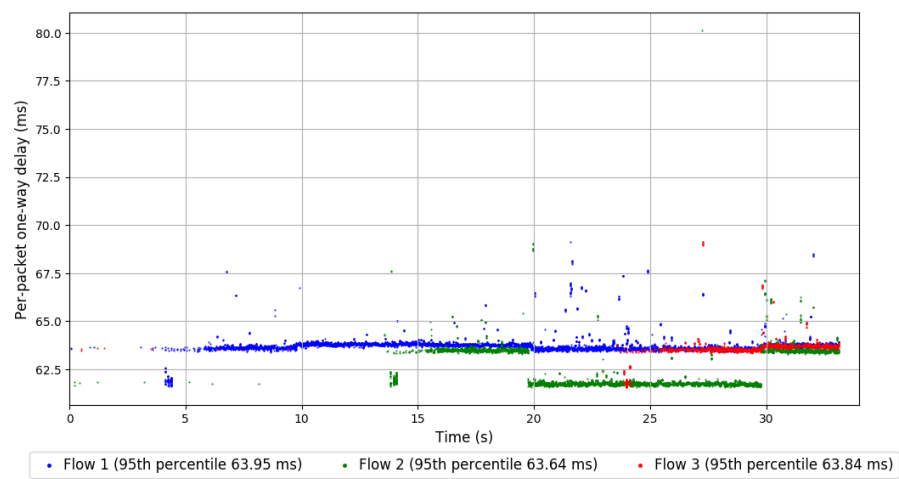
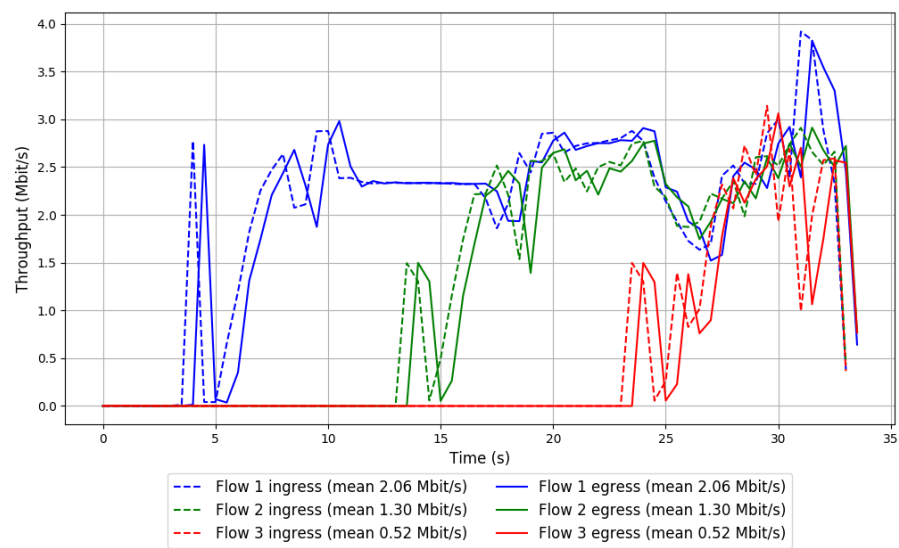
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 63.840 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-06 08:53:24

End at: 2018-06-06 08:53:54

Local clock offset: -0.042 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-06 12:03:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.83 Mbit/s

95th percentile per-packet one-way delay: 63.647 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 63.672 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 63.396 ms

Loss rate: 0.02%

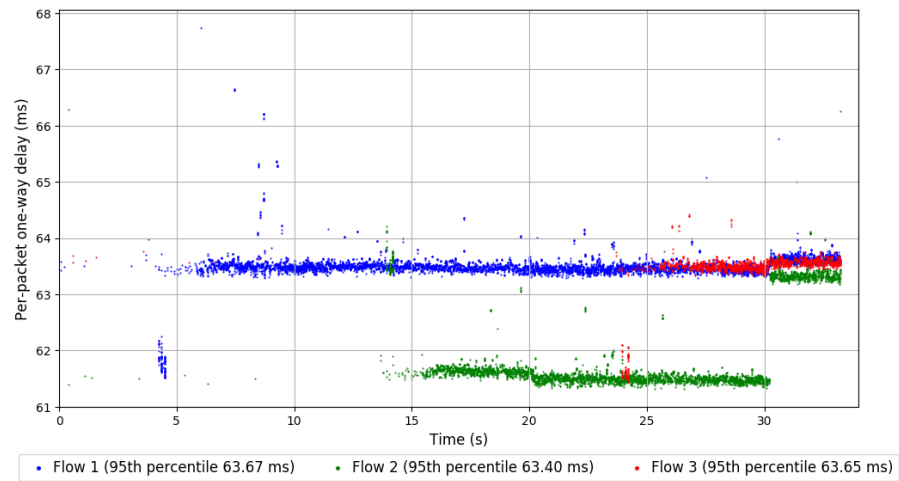
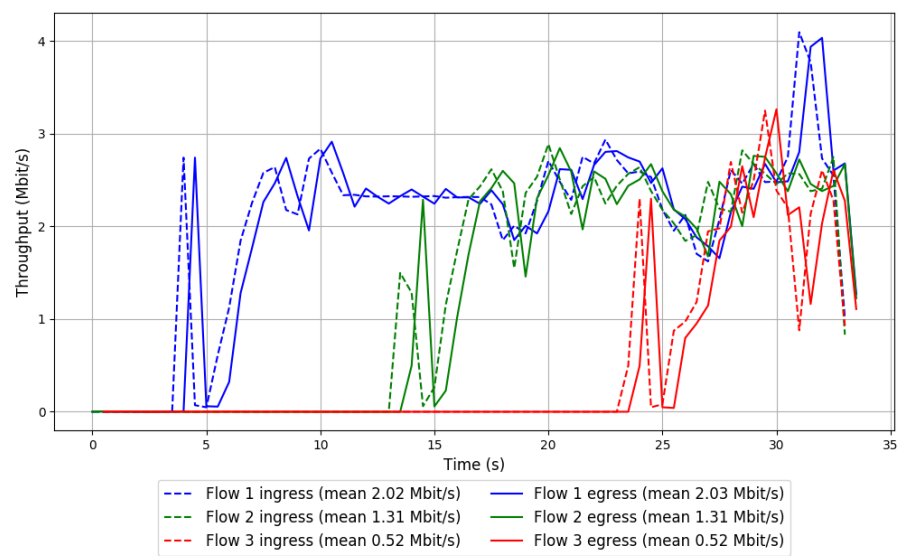
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 63.651 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

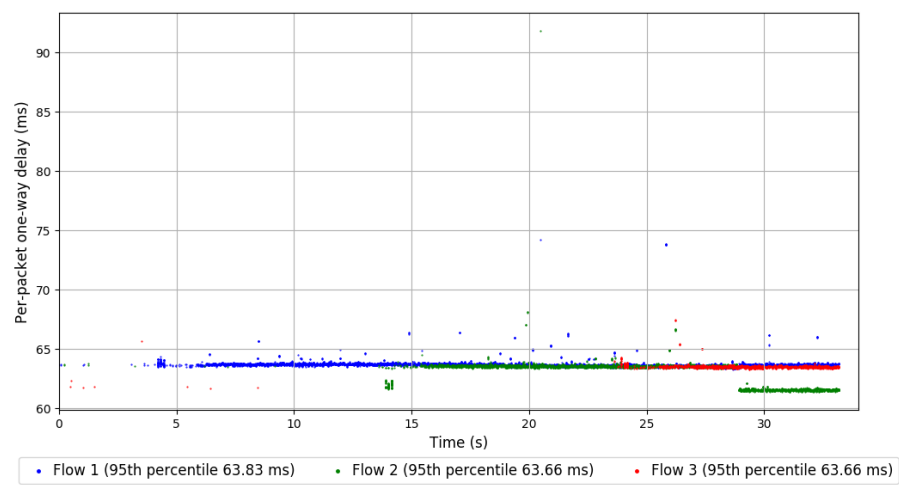
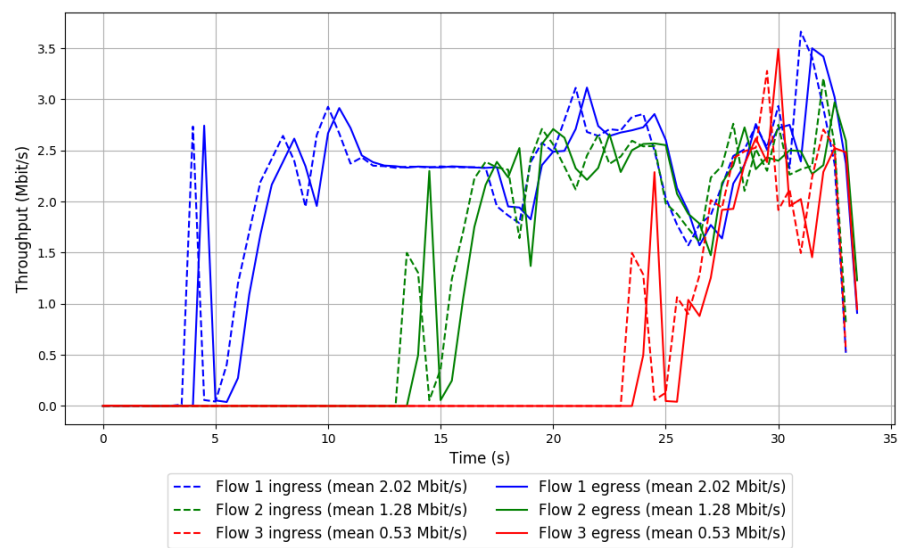


Run 9: Statistics of WebRTC media

Start at: 2018-06-06 09:15:55
End at: 2018-06-06 09:16:25
Local clock offset: -0.14 ms
Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-06-06 12:03:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 63.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 63.828 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 63.660 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 63.658 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-06 09:38:16
End at: 2018-06-06 09:38:46
Local clock offset: -0.101 ms
Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-06-06 12:03:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 63.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 63.493 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 63.486 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 63.587 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

