

Pantheon Report

Generated at 2018-06-06 23:57:37 (UTC).

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

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.

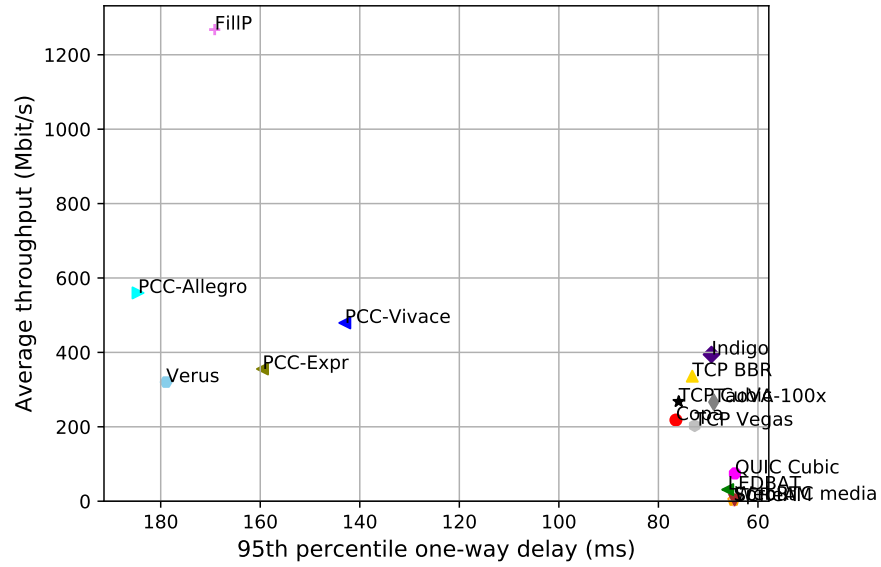
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

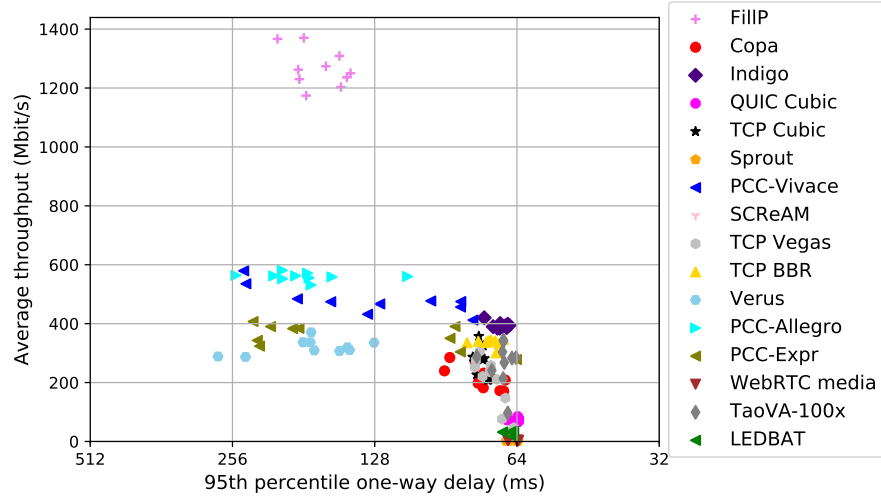
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ 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-quic @ 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 Tokyo to GCE Iowa, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



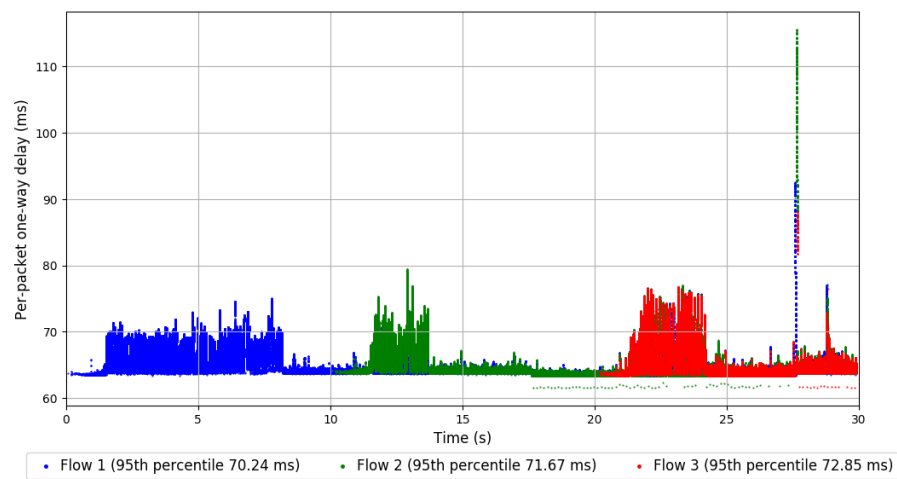
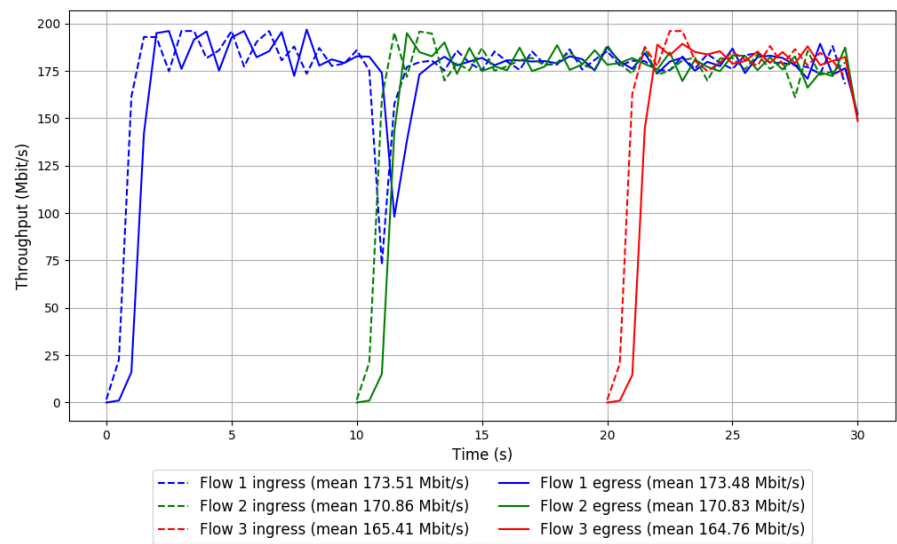
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	171.47	168.92	159.18	72.13	73.51	74.45	0.43	0.63	1.52
Copa	10	116.52	105.82	97.50	70.62	75.72	78.44	0.26	0.62	1.52
TCP Cubic	10	148.66	132.76	93.99	75.45	74.64	74.34	0.52	1.11	2.28
FillP	10	681.47	611.97	548.08	166.41	171.49	148.45	3.94	3.99	3.23
Indigo	10	206.06	199.91	166.25	68.20	69.92	70.90	0.44	0.60	1.52
LEDBAT	10	19.96	13.65	6.67	66.25	65.84	65.44	0.92	1.39	2.69
PCC-Allegro	10	498.35	74.67	36.80	186.54	147.30	145.07	1.91	1.28	2.46
PCC-Expr	10	224.70	154.19	86.87	163.85	126.71	117.52	3.04	2.91	3.30
QUIC Cubic	10	47.16	31.84	18.20	63.69	64.43	64.07	0.60	1.27	1.85
SCReAM	10	0.22	0.22	0.22	64.32	64.57	64.27	0.38	0.65	1.20
Sprout	10	0.85	1.17	1.53	64.70	64.60	63.85	0.25	0.85	0.70
TaoVA-100x	10	142.20	138.03	120.11	67.93	67.69	69.46	0.22	0.67	1.26
TCP Vegas	10	124.95	70.90	94.17	71.96	70.38	71.12	0.45	0.75	1.48
Verus	10	202.64	127.07	106.10	172.66	149.30	231.86	1.43	1.05	2.51
PCC-Vivace	10	282.05	241.19	113.58	140.89	132.95	71.62	0.71	1.33	2.61
WebRTC media	10	1.93	1.24	0.50	64.01	64.47	63.93	0.59	0.77	2.08

Run 1: Statistics of TCP BBR

Start at: 2018-06-06 17:35:03
End at: 2018-06-06 17:35:33
Local clock offset: -0.037 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-06-06 21:44:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.30 Mbit/s
95th percentile per-packet one-way delay: 71.107 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 173.48 Mbit/s
95th percentile per-packet one-way delay: 70.244 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 170.83 Mbit/s
95th percentile per-packet one-way delay: 71.674 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 164.76 Mbit/s
95th percentile per-packet one-way delay: 72.854 ms
Loss rate: 1.45%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-06 17:58:13

End at: 2018-06-06 17:58:43

Local clock offset: -0.056 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2018-06-06 21:44:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.59 Mbit/s

95th percentile per-packet one-way delay: 69.786 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 169.17 Mbit/s

95th percentile per-packet one-way delay: 67.945 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 167.35 Mbit/s

95th percentile per-packet one-way delay: 71.346 ms

Loss rate: 0.73%

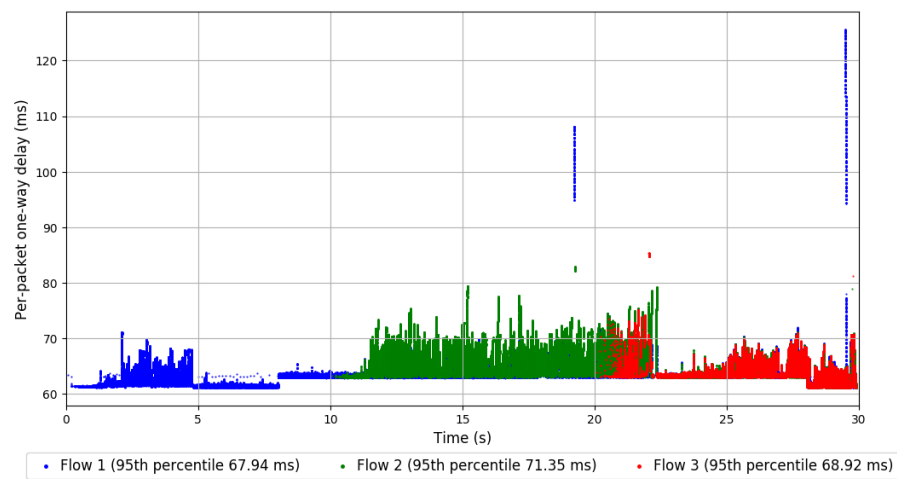
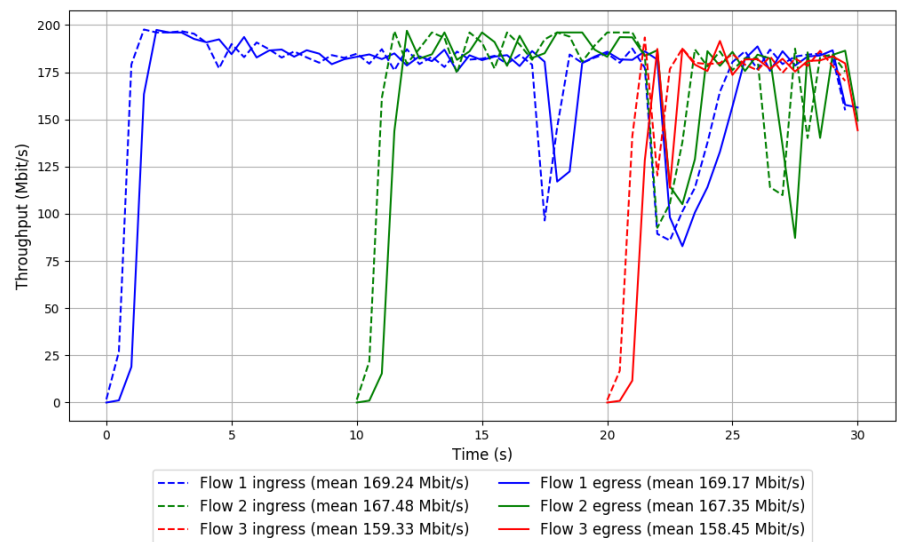
-- Flow 3:

Average throughput: 158.45 Mbit/s

95th percentile per-packet one-way delay: 68.921 ms

Loss rate: 1.67%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-06 18:21:51

End at: 2018-06-06 18:22:21

Local clock offset: -0.023 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-06-06 21:44:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 347.30 Mbit/s

95th percentile per-packet one-way delay: 68.329 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 178.21 Mbit/s

95th percentile per-packet one-way delay: 68.122 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 174.02 Mbit/s

95th percentile per-packet one-way delay: 68.402 ms

Loss rate: 0.69%

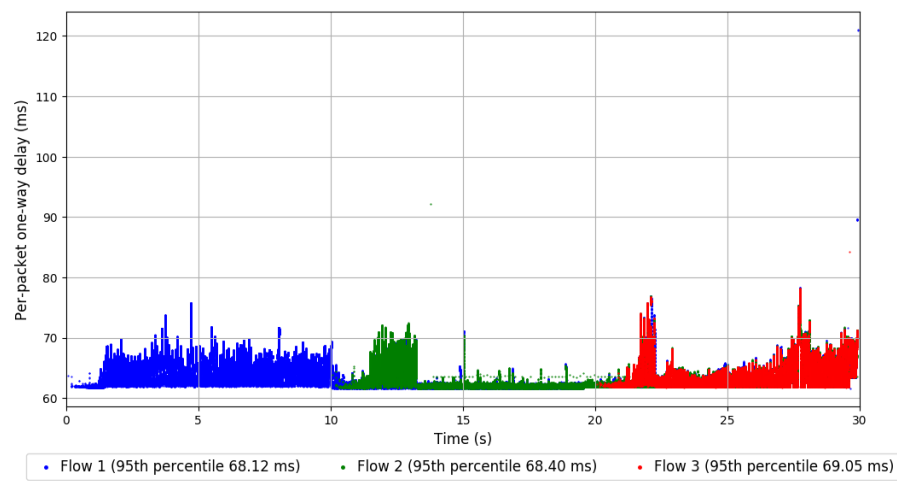
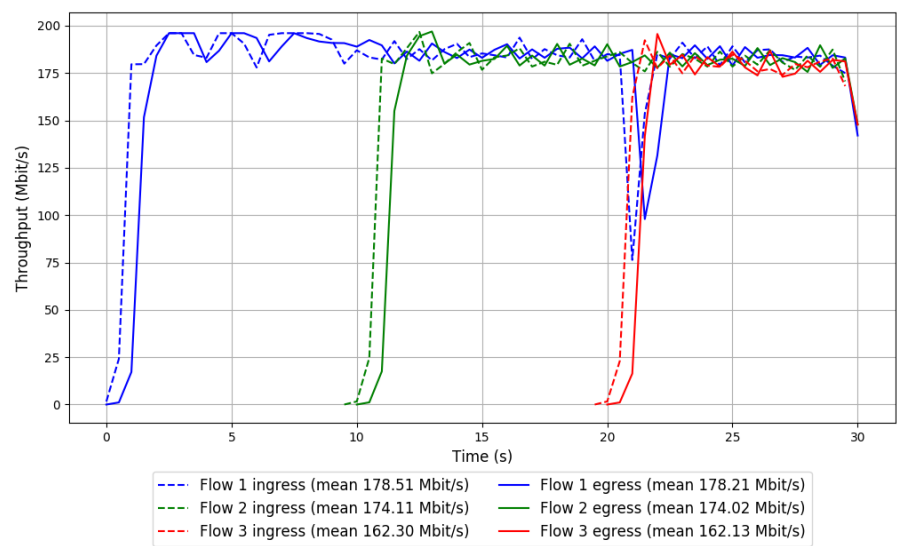
-- Flow 3:

Average throughput: 162.13 Mbit/s

95th percentile per-packet one-way delay: 69.047 ms

Loss rate: 1.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-06 18:44:54

End at: 2018-06-06 18:45:24

Local clock offset: -0.015 ms

Remote clock offset: 0.118 ms

Below is generated by plot.py at 2018-06-06 21:44:38

Datalink statistics

-- Total of 3 flows:

Average throughput: 344.82 Mbit/s

95th percentile per-packet one-way delay: 72.720 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 175.79 Mbit/s

95th percentile per-packet one-way delay: 72.178 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 172.70 Mbit/s

95th percentile per-packet one-way delay: 72.503 ms

Loss rate: 0.71%

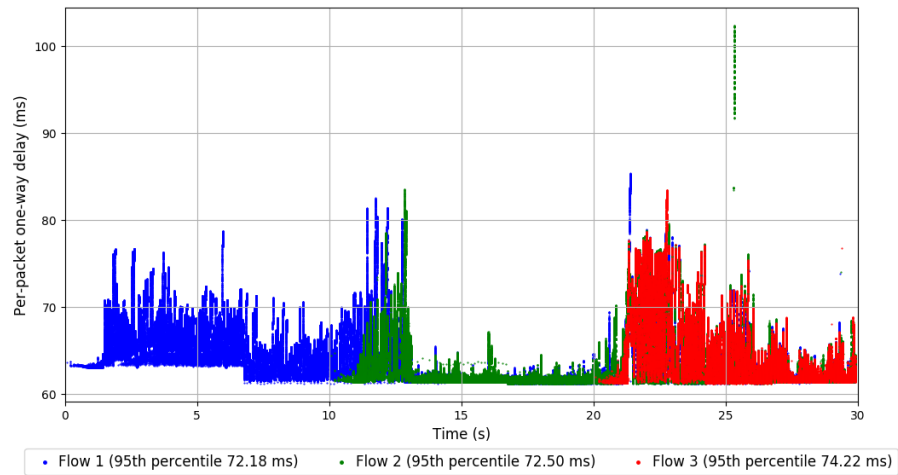
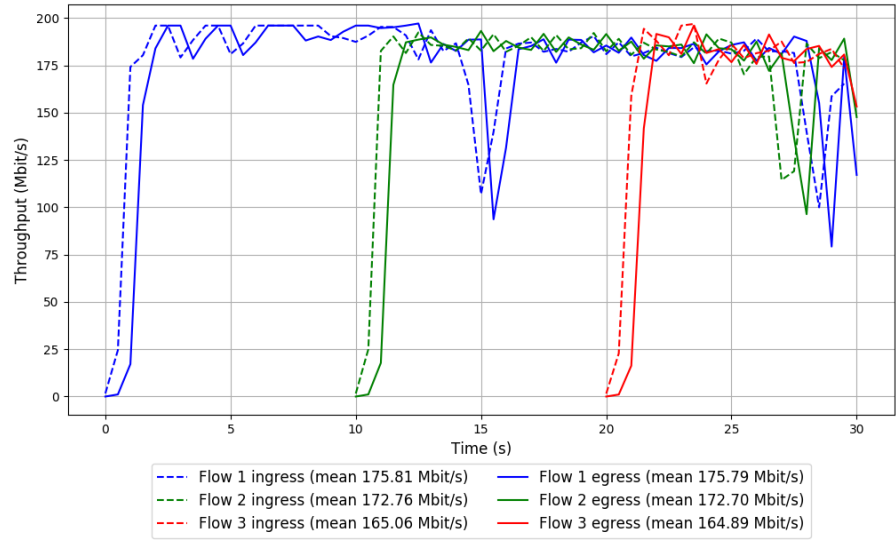
-- Flow 3:

Average throughput: 164.89 Mbit/s

95th percentile per-packet one-way delay: 74.223 ms

Loss rate: 1.37%

Run 4: Report of TCP BBR — Data Link

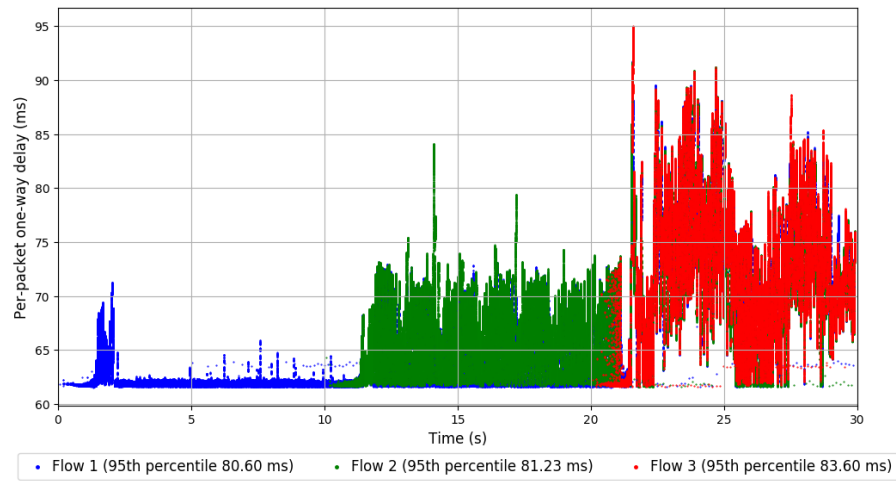
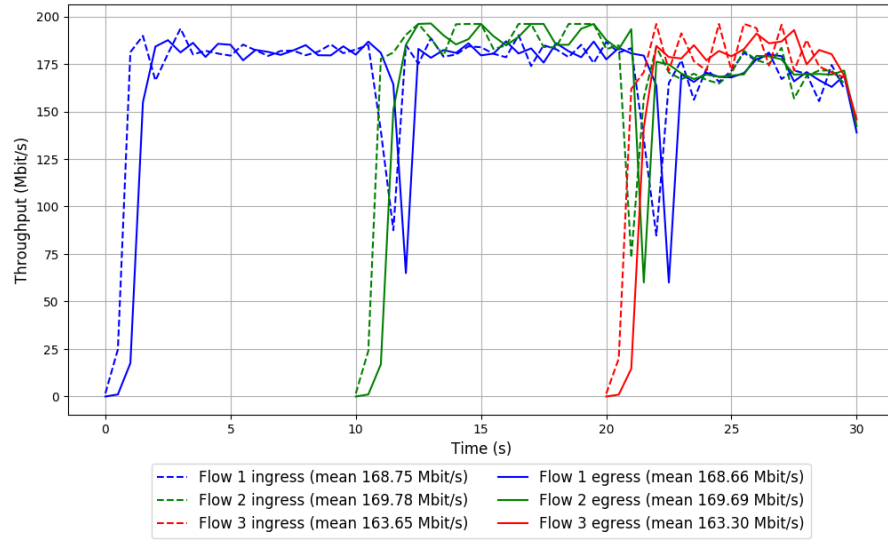


Run 5: Statistics of TCP BBR

Start at: 2018-06-06 19:08:16
End at: 2018-06-06 19:08:46
Local clock offset: 0.002 ms
Remote clock offset: -0.167 ms

Below is generated by plot.py at 2018-06-06 21:44:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 335.20 Mbit/s
95th percentile per-packet one-way delay: 81.578 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 168.66 Mbit/s
95th percentile per-packet one-way delay: 80.603 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 169.69 Mbit/s
95th percentile per-packet one-way delay: 81.227 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 163.30 Mbit/s
95th percentile per-packet one-way delay: 83.602 ms
Loss rate: 1.44%

Run 5: Report of TCP BBR — Data Link

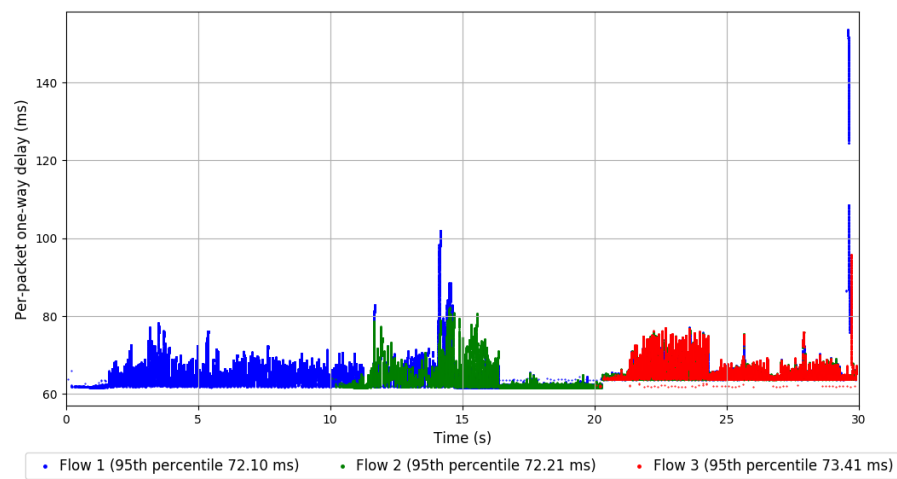
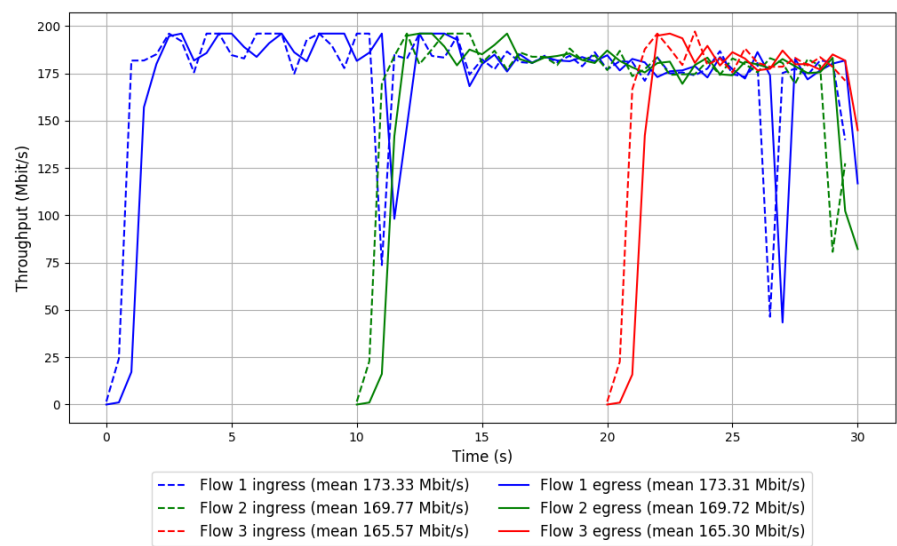


Run 6: Statistics of TCP BBR

Start at: 2018-06-06 19:31:30
End at: 2018-06-06 19:32:00
Local clock offset: -0.011 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-06 21:44:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.60 Mbit/s
95th percentile per-packet one-way delay: 72.514 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 173.31 Mbit/s
95th percentile per-packet one-way delay: 72.096 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 169.72 Mbit/s
95th percentile per-packet one-way delay: 72.210 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 165.30 Mbit/s
95th percentile per-packet one-way delay: 73.406 ms
Loss rate: 1.43%

Run 6: Report of TCP BBR — Data Link

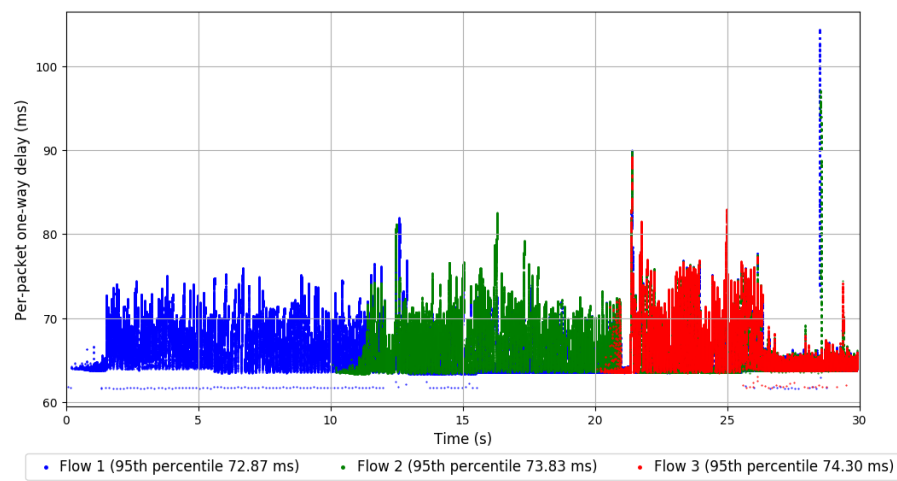
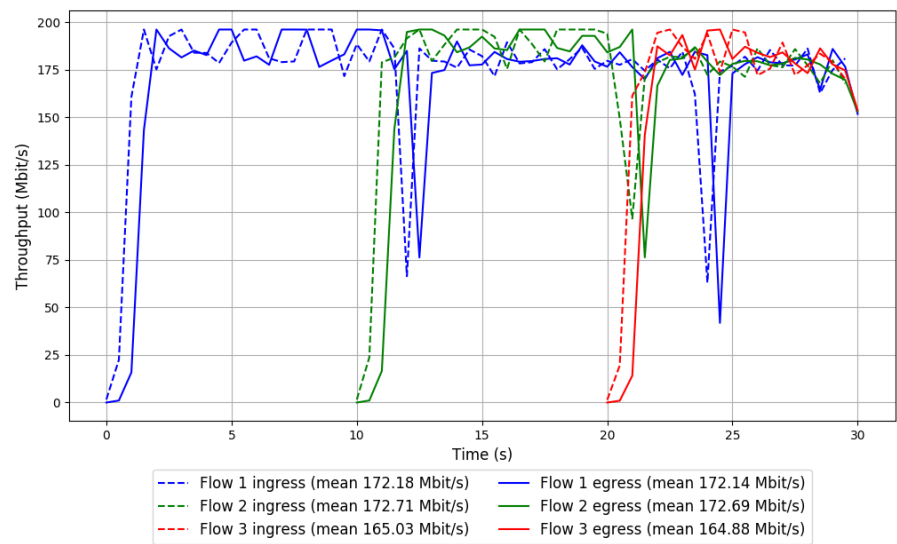


Run 7: Statistics of TCP BBR

Start at: 2018-06-06 19:54:45
End at: 2018-06-06 19:55:15
Local clock offset: -0.038 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-06-06 21:44:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.28 Mbit/s
95th percentile per-packet one-way delay: 73.531 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 172.14 Mbit/s
95th percentile per-packet one-way delay: 72.868 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 172.69 Mbit/s
95th percentile per-packet one-way delay: 73.830 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 164.88 Mbit/s
95th percentile per-packet one-way delay: 74.300 ms
Loss rate: 1.36%

Run 7: Report of TCP BBR — Data Link

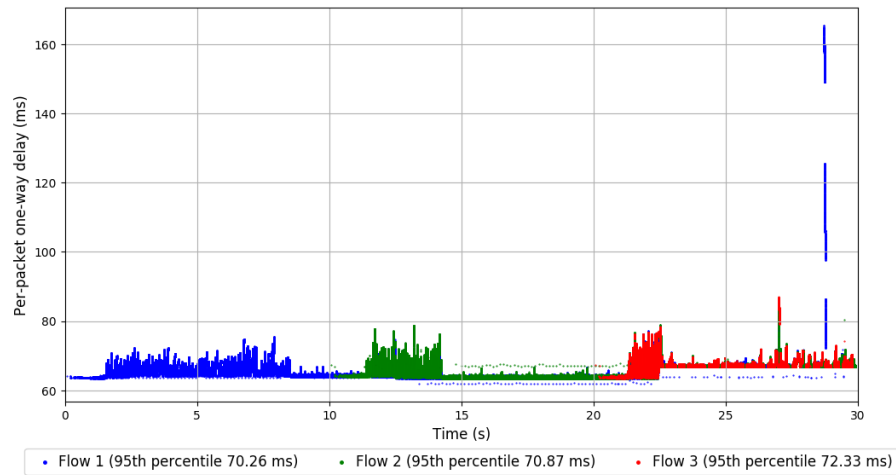
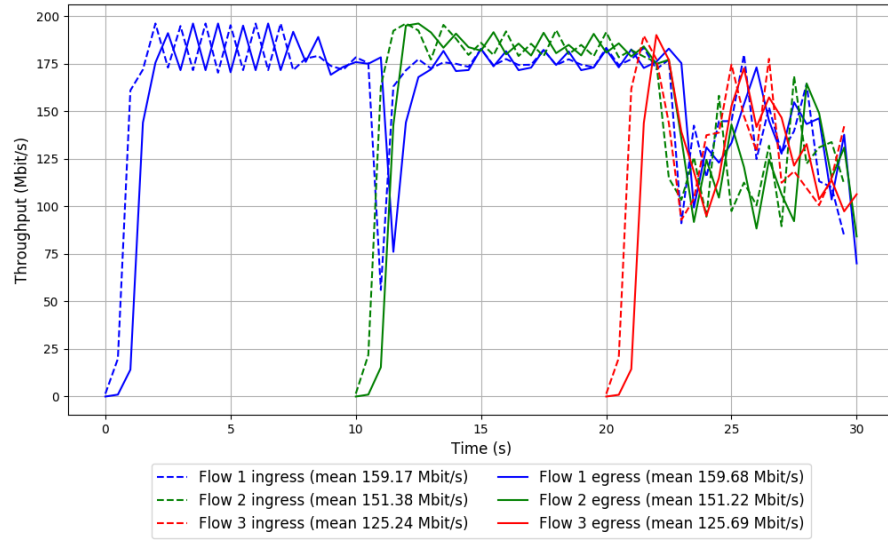


Run 8: Statistics of TCP BBR

Start at: 2018-06-06 20:18:08
End at: 2018-06-06 20:18:38
Local clock offset: -0.031 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-06-06 21:44:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 300.99 Mbit/s
95th percentile per-packet one-way delay: 70.745 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 159.68 Mbit/s
95th percentile per-packet one-way delay: 70.263 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 151.22 Mbit/s
95th percentile per-packet one-way delay: 70.872 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 125.69 Mbit/s
95th percentile per-packet one-way delay: 72.333 ms
Loss rate: 2.17%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-06 20:41:36

End at: 2018-06-06 20:42:06

Local clock offset: 0.052 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-06 21:49:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 336.39 Mbit/s

95th percentile per-packet one-way delay: 74.370 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 170.10 Mbit/s

95th percentile per-packet one-way delay: 71.596 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 171.35 Mbit/s

95th percentile per-packet one-way delay: 75.113 ms

Loss rate: 0.69%

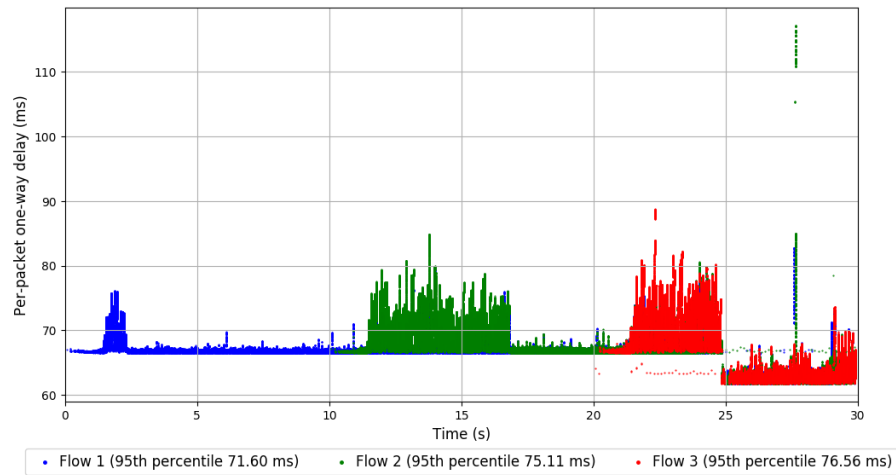
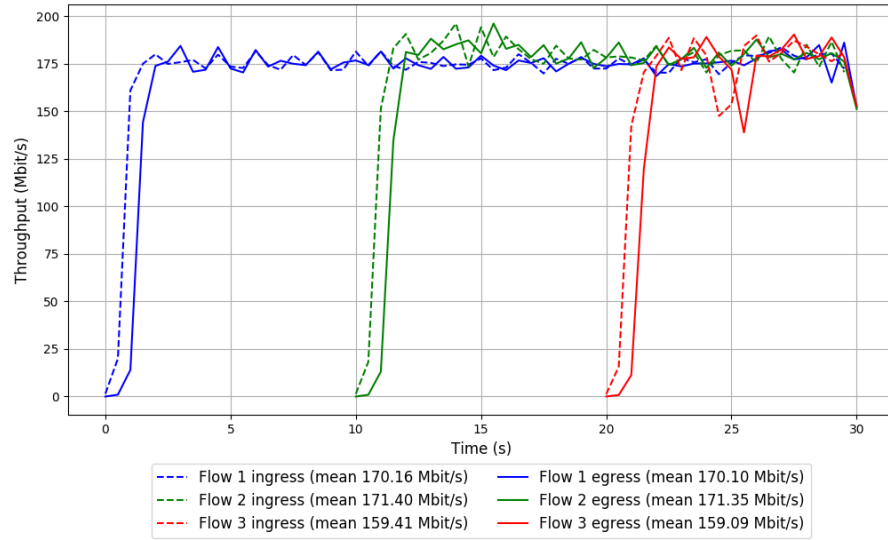
-- Flow 3:

Average throughput: 159.09 Mbit/s

95th percentile per-packet one-way delay: 76.562 ms

Loss rate: 1.47%

Run 9: Report of TCP BBR — Data Link

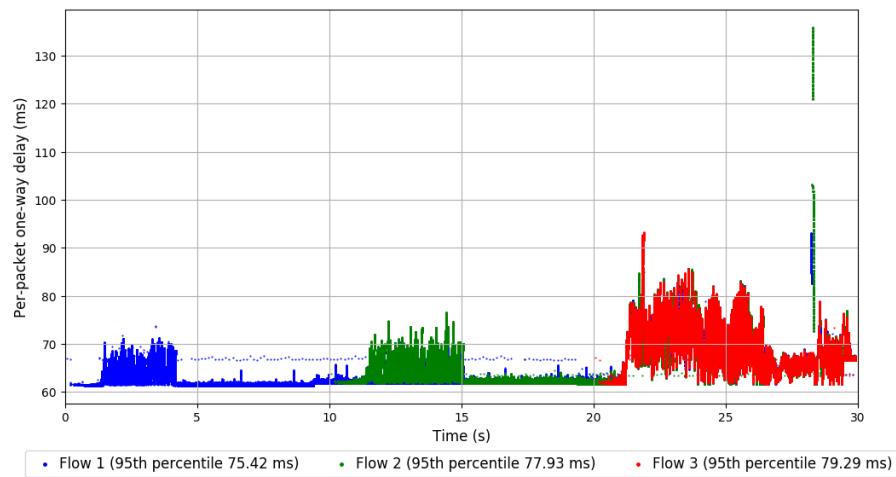
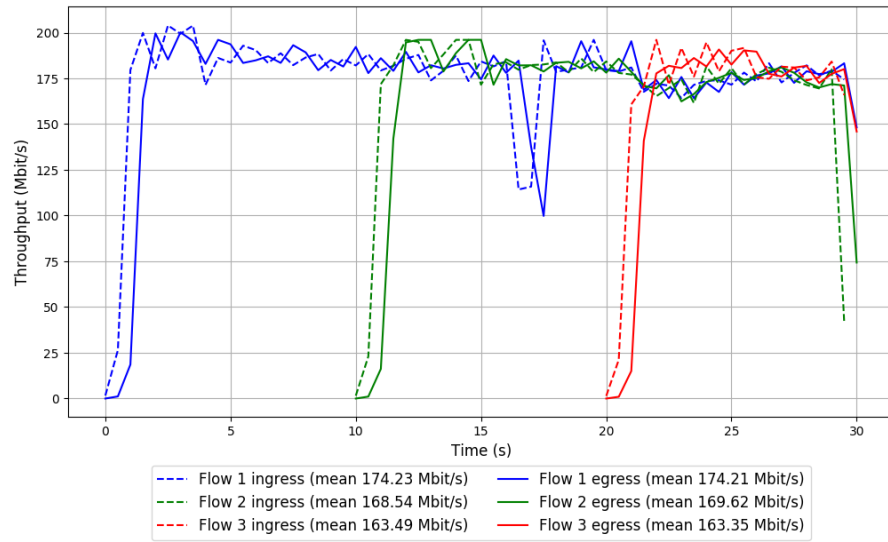


Run 10: Statistics of TCP BBR

Start at: 2018-06-06 21:04:31
End at: 2018-06-06 21:05:01
Local clock offset: 0.07 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-06-06 21:50:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.24 Mbit/s
95th percentile per-packet one-way delay: 77.262 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 174.21 Mbit/s
95th percentile per-packet one-way delay: 75.423 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 169.62 Mbit/s
95th percentile per-packet one-way delay: 77.929 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 163.35 Mbit/s
95th percentile per-packet one-way delay: 79.288 ms
Loss rate: 1.43%

Run 10: Report of TCP BBR — Data Link

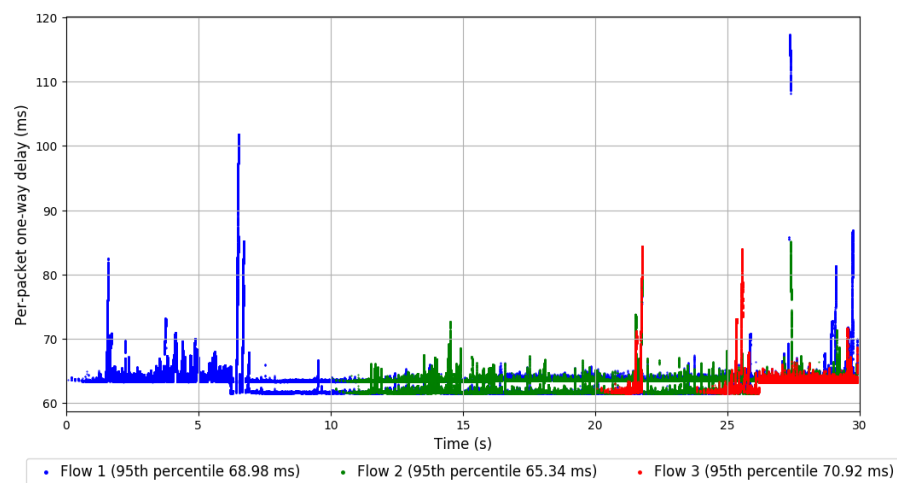
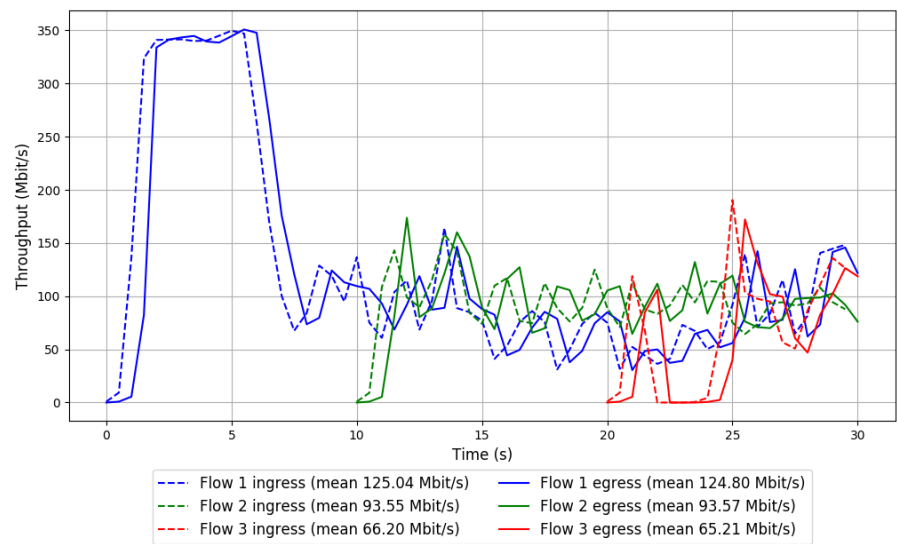


Run 1: Statistics of Copa

Start at: 2018-06-06 17:46:44
End at: 2018-06-06 17:47:14
Local clock offset: -0.057 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-06 21:51:18
Datalink statistics
-- Total of 3 flows:
Average throughput: 208.47 Mbit/s
95th percentile per-packet one-way delay: 67.753 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 124.80 Mbit/s
95th percentile per-packet one-way delay: 68.984 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 65.342 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 70.921 ms
Loss rate: 2.75%

Run 1: Report of Copa — Data Link

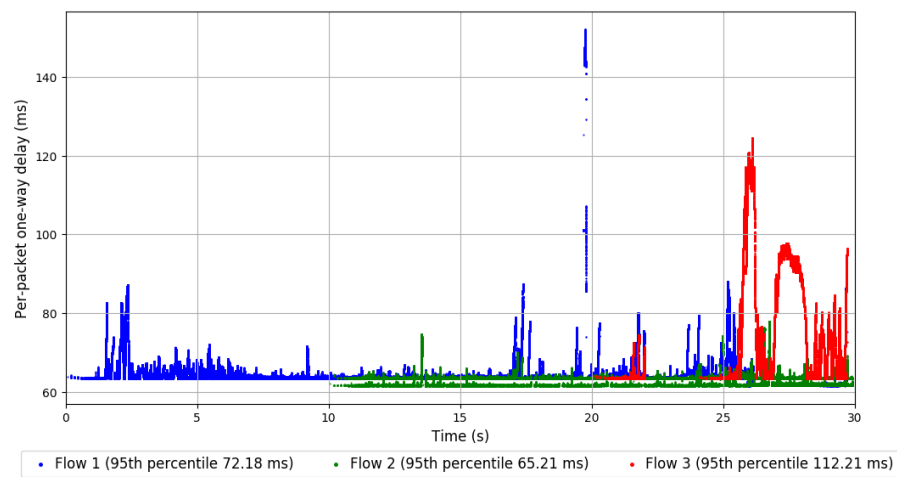
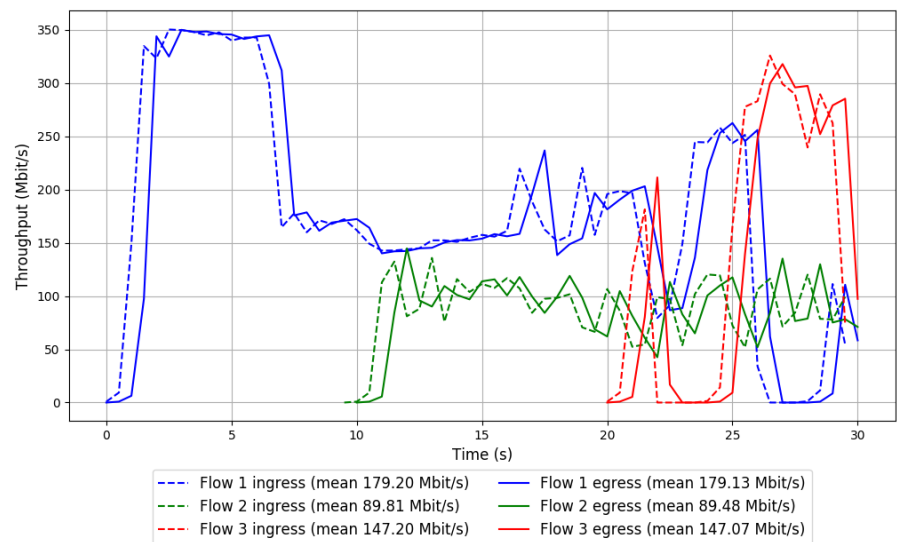


Run 2: Statistics of Copa

Start at: 2018-06-06 18:10:05
End at: 2018-06-06 18:10:35
Local clock offset: -0.029 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-06-06 21:53:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 285.02 Mbit/s
95th percentile per-packet one-way delay: 88.773 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 179.13 Mbit/s
95th percentile per-packet one-way delay: 72.176 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 89.48 Mbit/s
95th percentile per-packet one-way delay: 65.210 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 147.07 Mbit/s
95th percentile per-packet one-way delay: 112.214 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

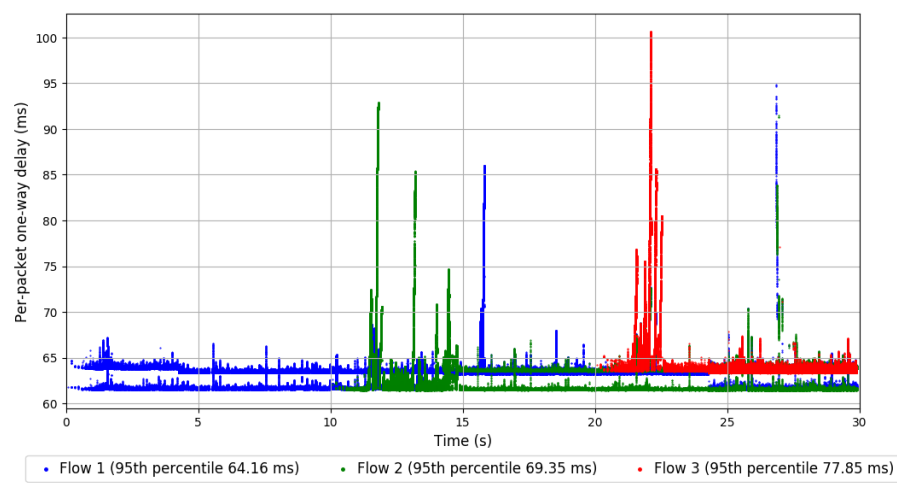
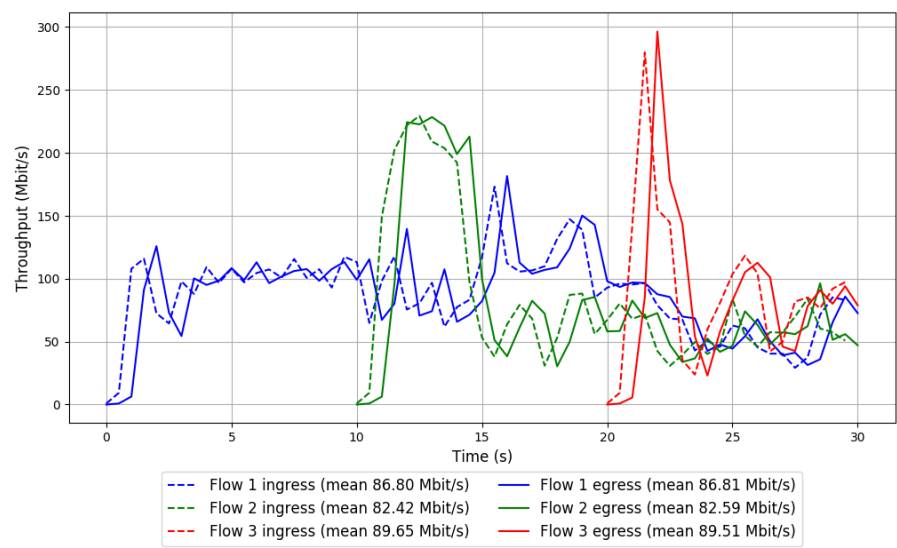


Run 3: Statistics of Copa

Start at: 2018-06-06 18:33:26
End at: 2018-06-06 18:33:56
Local clock offset: -0.024 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-06 21:53:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 171.15 Mbit/s
95th percentile per-packet one-way delay: 68.275 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 86.81 Mbit/s
95th percentile per-packet one-way delay: 64.163 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 69.354 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 89.51 Mbit/s
95th percentile per-packet one-way delay: 77.851 ms
Loss rate: 1.44%

Run 3: Report of Copa — Data Link

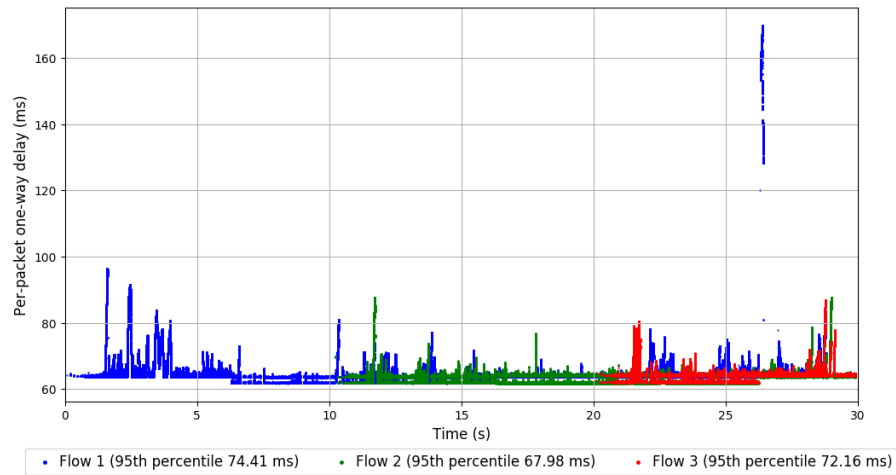
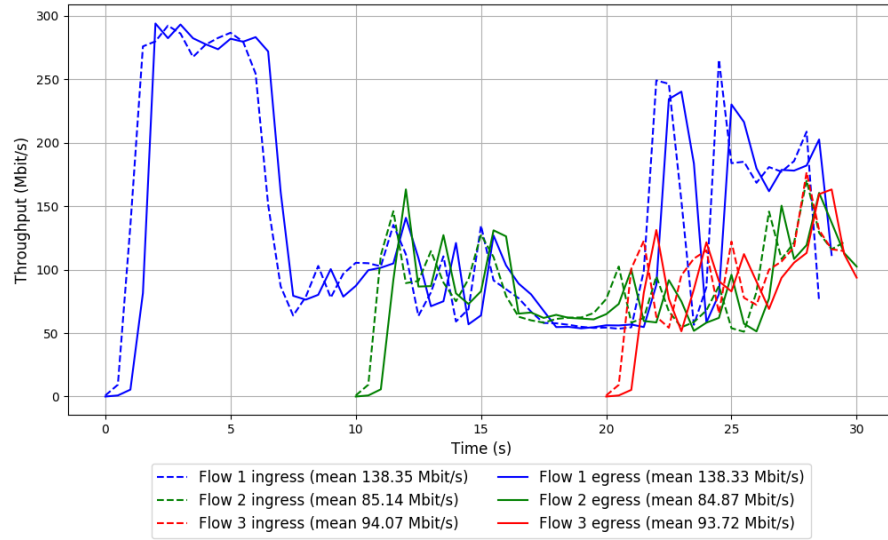


Run 4: Statistics of Copa

Start at: 2018-06-06 18:56:44
End at: 2018-06-06 18:57:14
Local clock offset: 0.002 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-06-06 21:53:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 220.43 Mbit/s
95th percentile per-packet one-way delay: 72.926 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 138.33 Mbit/s
95th percentile per-packet one-way delay: 74.411 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 67.982 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 93.72 Mbit/s
95th percentile per-packet one-way delay: 72.161 ms
Loss rate: 1.62%

Run 4: Report of Copa — Data Link

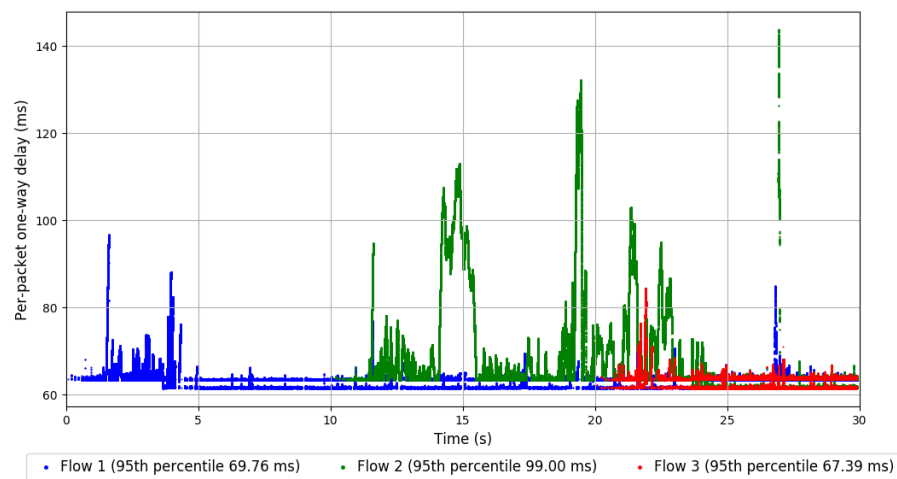
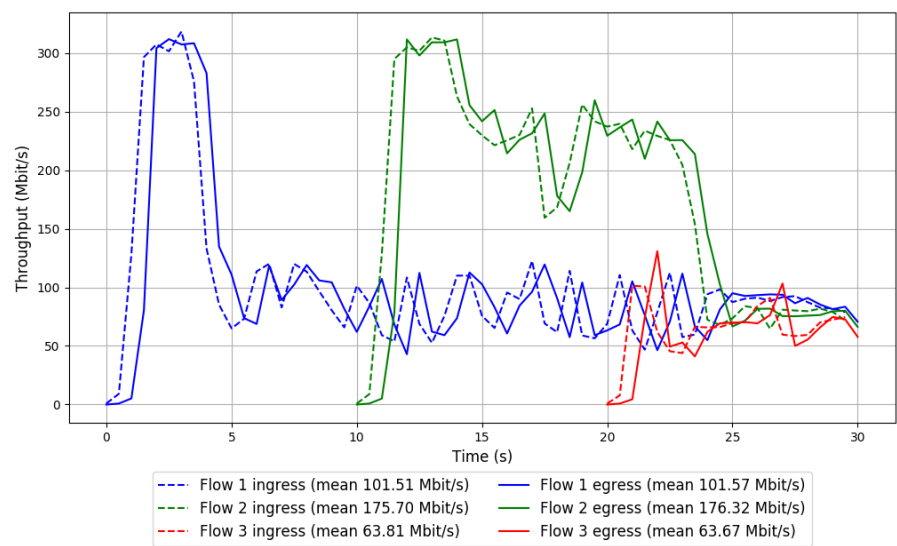


Run 5: Statistics of Copa

Start at: 2018-06-06 19:19:57
End at: 2018-06-06 19:20:27
Local clock offset: -0.03 ms
Remote clock offset: -0.169 ms

Below is generated by plot.py at 2018-06-06 21:53:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 239.72 Mbit/s
95th percentile per-packet one-way delay: 91.119 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 101.57 Mbit/s
95th percentile per-packet one-way delay: 69.764 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 176.32 Mbit/s
95th percentile per-packet one-way delay: 98.998 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 63.67 Mbit/s
95th percentile per-packet one-way delay: 67.390 ms
Loss rate: 1.48%

Run 5: Report of Copa — Data Link

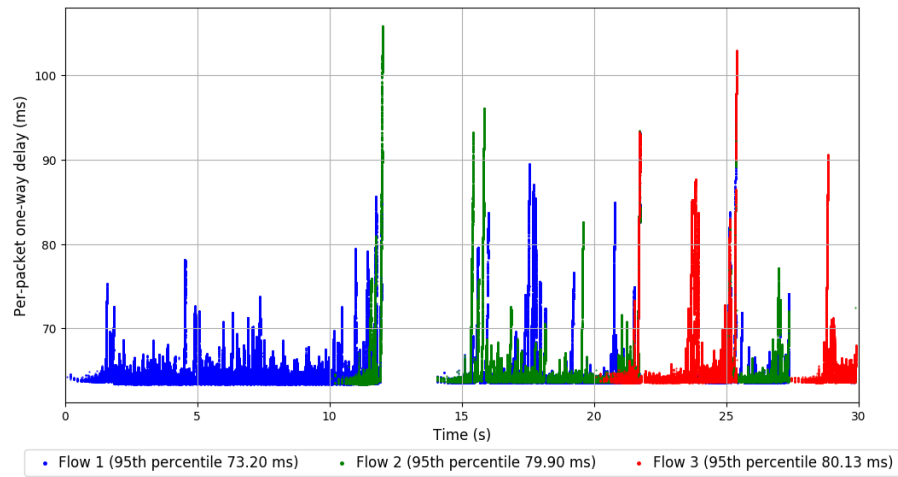
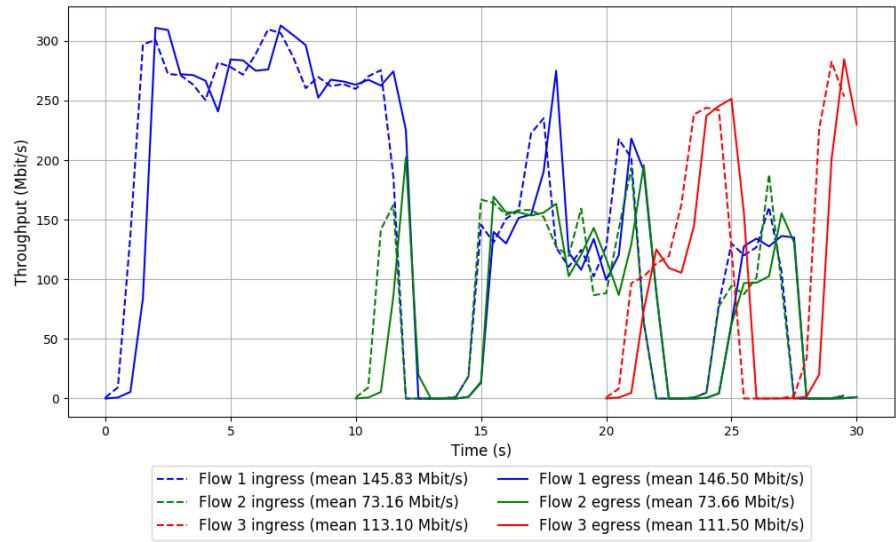


Run 6: Statistics of Copa

Start at: 2018-06-06 19:43:19
End at: 2018-06-06 19:43:49
Local clock offset: -0.023 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2018-06-06 21:53:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 232.06 Mbit/s
95th percentile per-packet one-way delay: 75.234 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 146.50 Mbit/s
95th percentile per-packet one-way delay: 73.203 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 73.66 Mbit/s
95th percentile per-packet one-way delay: 79.898 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 111.50 Mbit/s
95th percentile per-packet one-way delay: 80.129 ms
Loss rate: 2.67%

Run 6: Report of Copa — Data Link

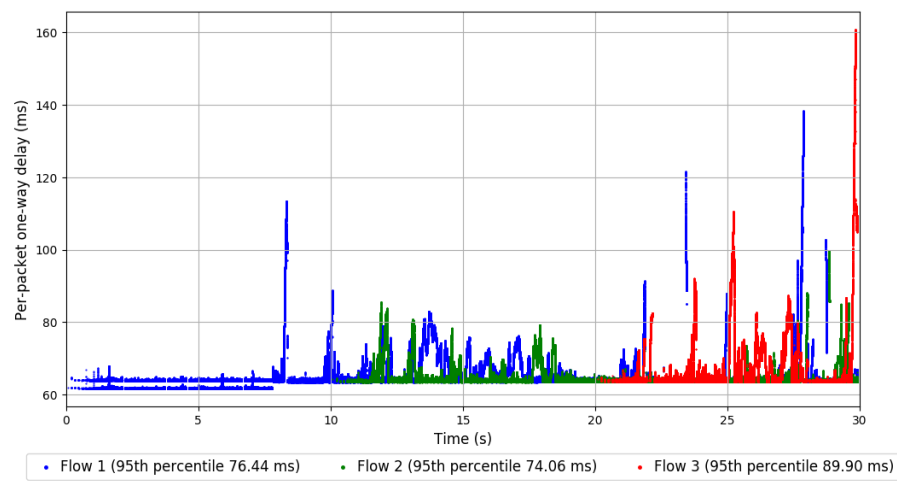
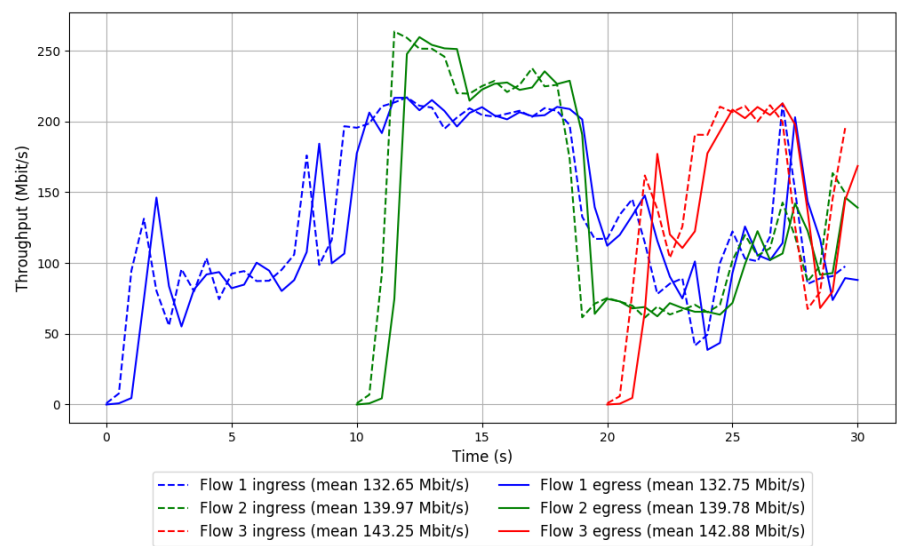


Run 7: Statistics of Copa

Start at: 2018-06-06 20:06:33
End at: 2018-06-06 20:07:03
Local clock offset: 0.106 ms
Remote clock offset: -0.121 ms

```
# Below is generated by plot.py at 2018-06-06 21:59:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.62 Mbit/s
95th percentile per-packet one-way delay: 78.479 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 132.75 Mbit/s
95th percentile per-packet one-way delay: 76.435 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 139.78 Mbit/s
95th percentile per-packet one-way delay: 74.063 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 142.88 Mbit/s
95th percentile per-packet one-way delay: 89.898 ms
Loss rate: 1.54%
```


Run 7: Report of Copa — Data Link

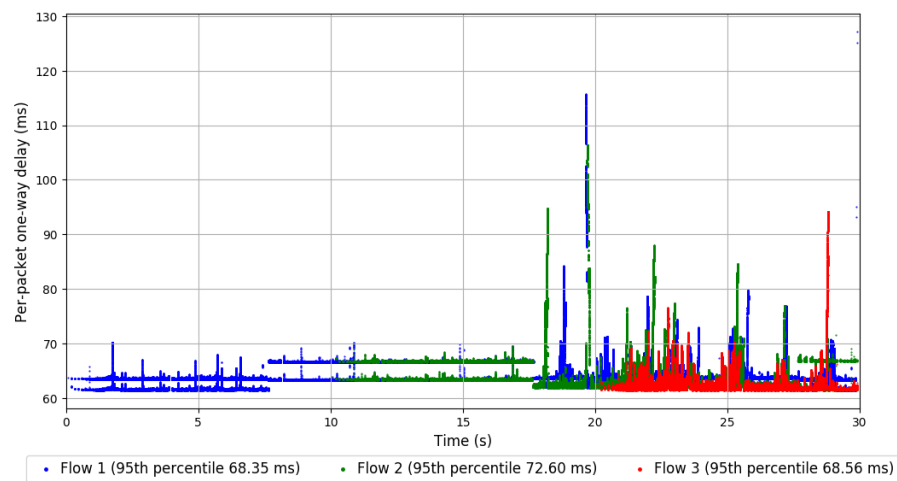
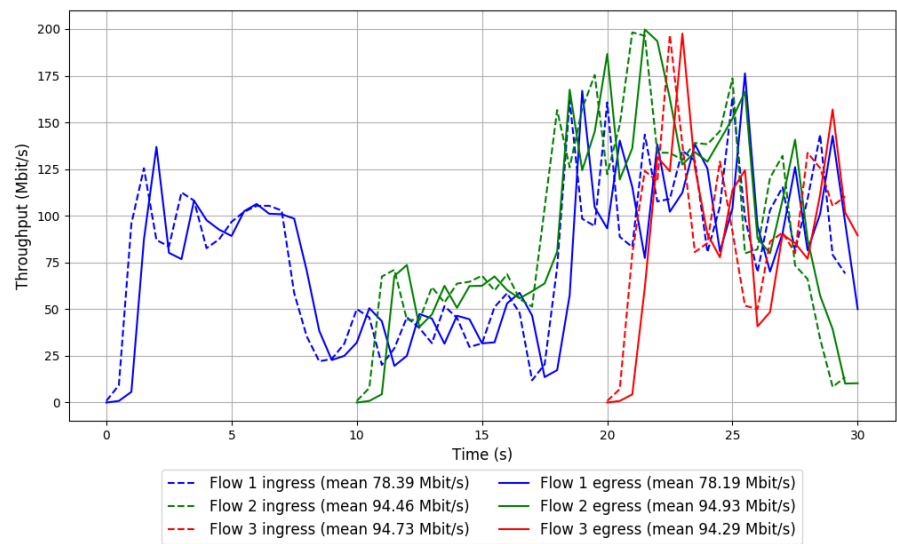


Run 8: Statistics of Copa

Start at: 2018-06-06 20:29:43
End at: 2018-06-06 20:30:13
Local clock offset: 0.028 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2018-06-06 21:59:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 172.33 Mbit/s
95th percentile per-packet one-way delay: 69.539 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 78.19 Mbit/s
95th percentile per-packet one-way delay: 68.349 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 72.604 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 68.561 ms
Loss rate: 1.75%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-06 20:53:05

End at: 2018-06-06 20:53:35

Local clock offset: 0.072 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-06-06 21:59:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 198.00 Mbit/s

95th percentile per-packet one-way delay: 77.322 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 67.15 Mbit/s

95th percentile per-packet one-way delay: 68.795 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 135.29 Mbit/s

95th percentile per-packet one-way delay: 79.757 ms

Loss rate: 0.37%

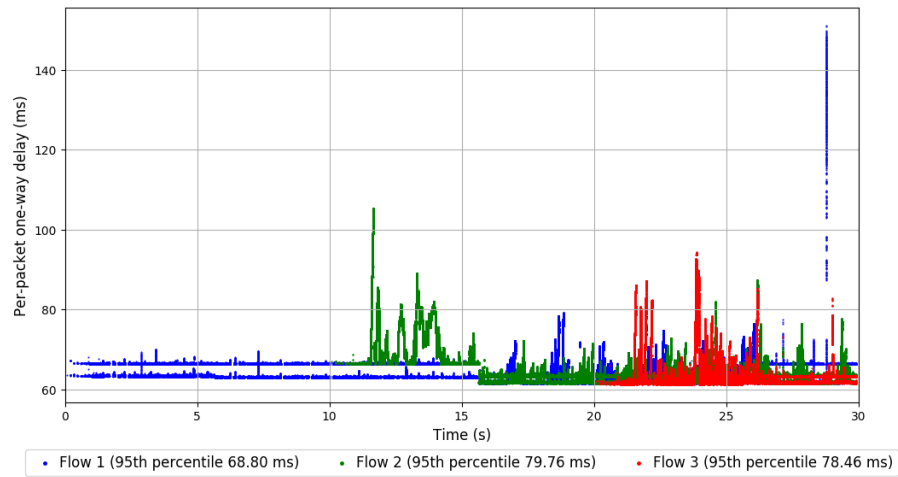
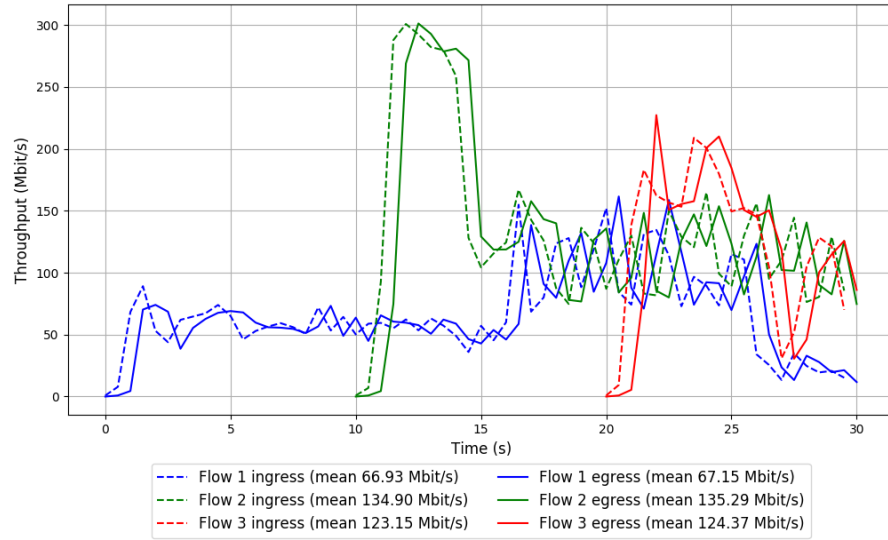
-- Flow 3:

Average throughput: 124.37 Mbit/s

95th percentile per-packet one-way delay: 78.460 ms

Loss rate: 0.30%

Run 9: Report of Copa — Data Link

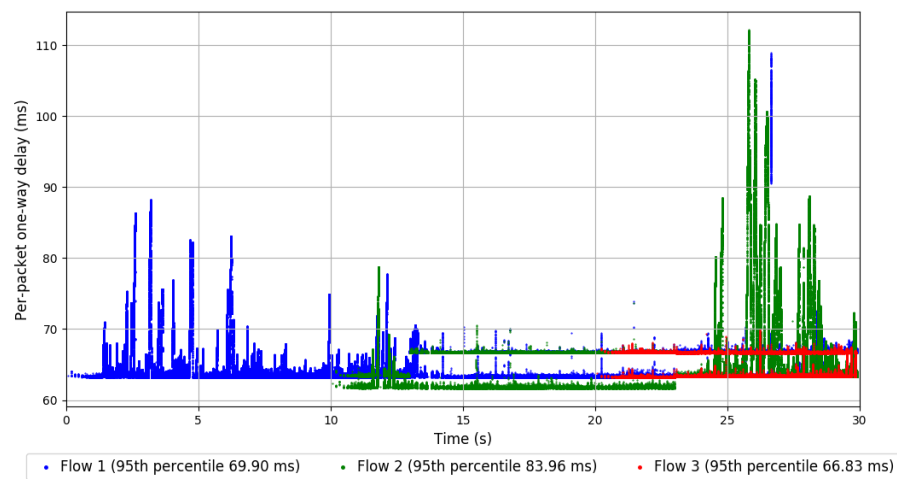
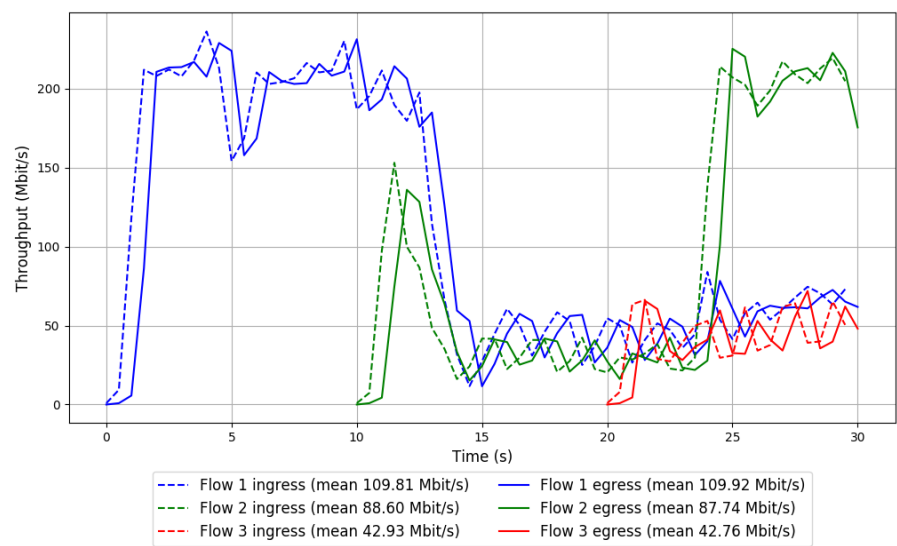


Run 10: Statistics of Copa

Start at: 2018-06-06 21:15:48
End at: 2018-06-06 21:16:18
Local clock offset: 0.089 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-06-06 21:59:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 182.26 Mbit/s
95th percentile per-packet one-way delay: 75.418 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 109.92 Mbit/s
95th percentile per-packet one-way delay: 69.901 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 87.74 Mbit/s
95th percentile per-packet one-way delay: 83.963 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 42.76 Mbit/s
95th percentile per-packet one-way delay: 66.831 ms
Loss rate: 1.69%

Run 10: Report of Copa — Data Link

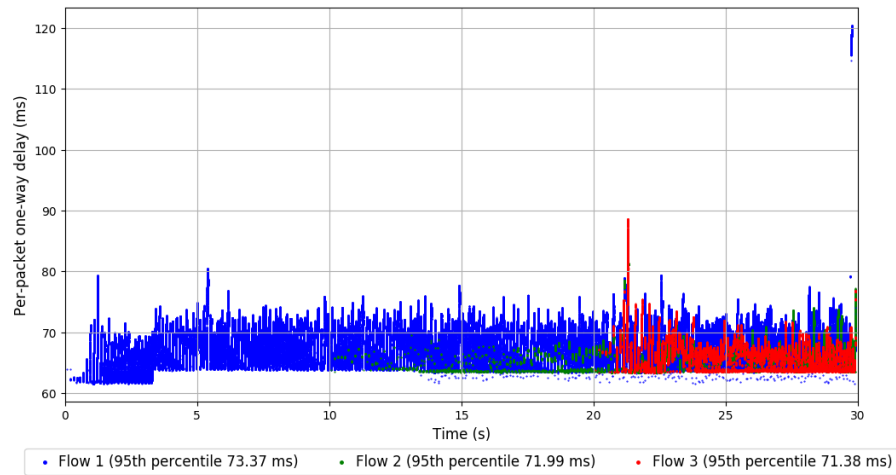
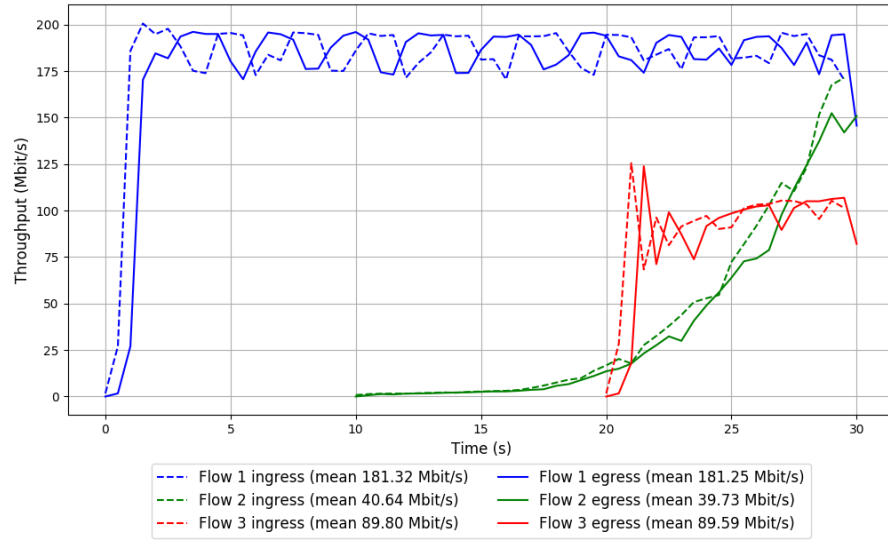


Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 17:40:37
End at: 2018-06-06 17:41:07
Local clock offset: -0.05 ms
Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-06 21:59:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 237.16 Mbit/s
95th percentile per-packet one-way delay: 73.142 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 181.25 Mbit/s
95th percentile per-packet one-way delay: 73.374 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 71.994 ms
Loss rate: 2.86%
-- Flow 3:
Average throughput: 89.59 Mbit/s
95th percentile per-packet one-way delay: 71.379 ms
Loss rate: 1.50%

Run 1: Report of TCP Cubic — Data Link

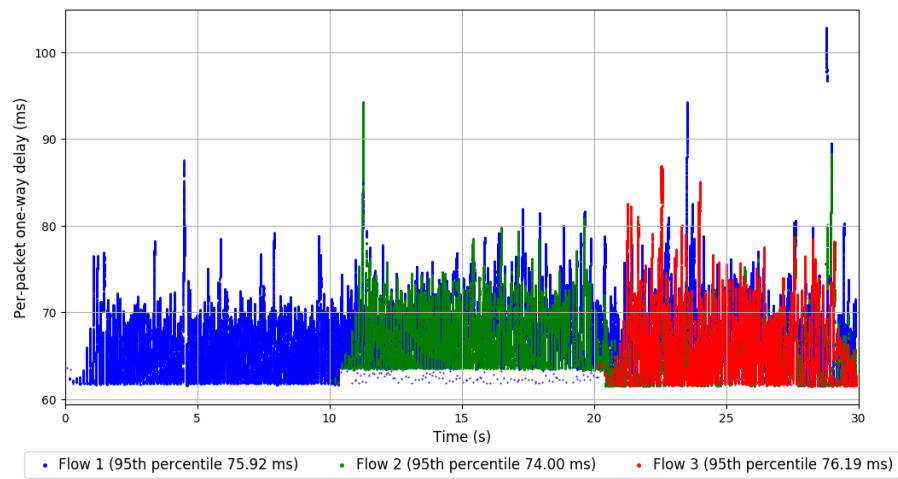
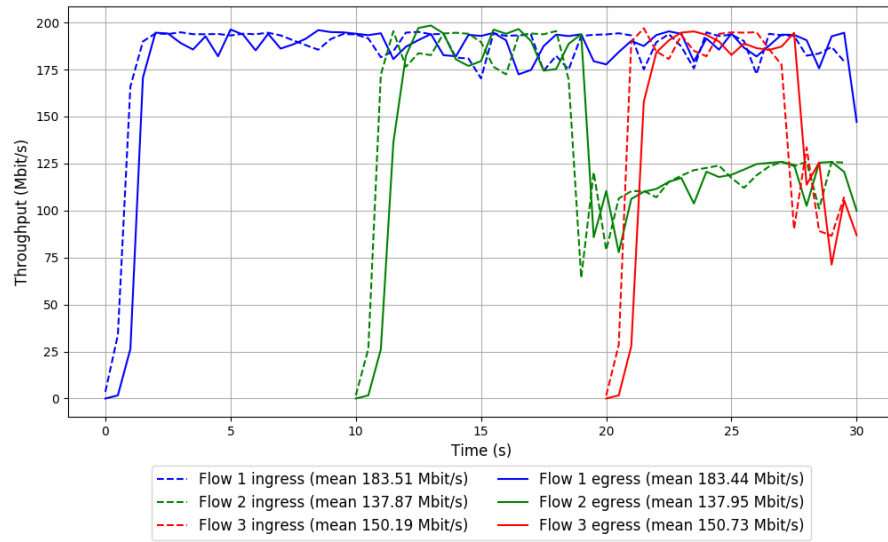


Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 18:03:50
End at: 2018-06-06 18:04:20
Local clock offset: -0.072 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-06 21:59:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 324.58 Mbit/s
95th percentile per-packet one-way delay: 75.475 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 183.44 Mbit/s
95th percentile per-packet one-way delay: 75.924 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 137.95 Mbit/s
95th percentile per-packet one-way delay: 73.997 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 150.73 Mbit/s
95th percentile per-packet one-way delay: 76.194 ms
Loss rate: 0.92%

Run 2: Report of TCP Cubic — Data Link

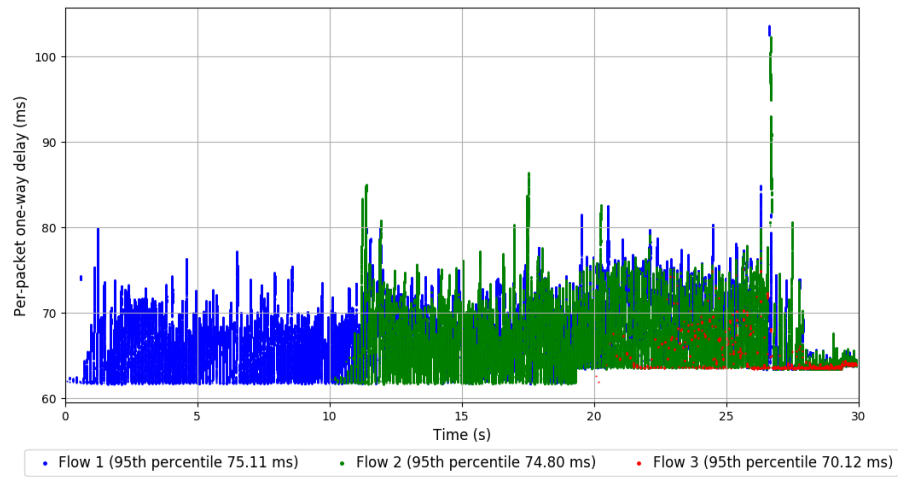
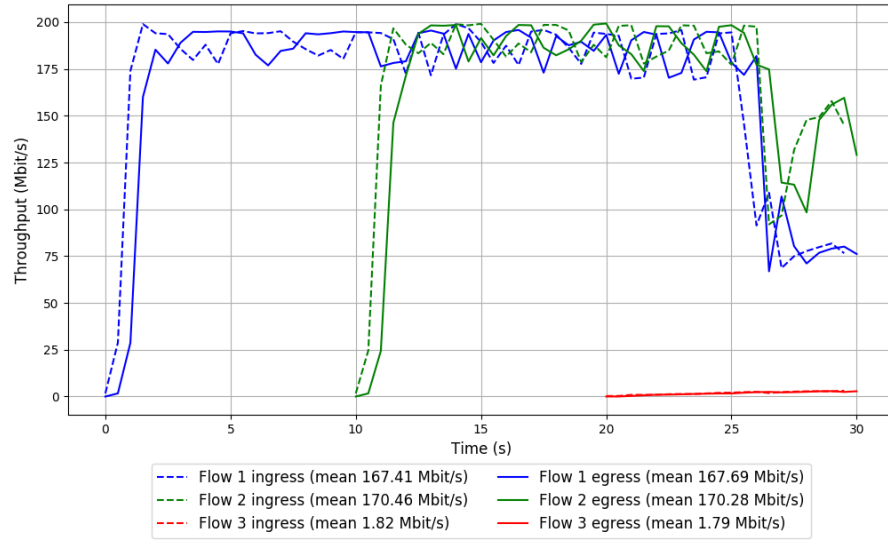


Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 18:27:21
End at: 2018-06-06 18:27:51
Local clock offset: 0.004 ms
Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-06-06 21:59:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 281.52 Mbit/s
95th percentile per-packet one-way delay: 75.003 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 167.69 Mbit/s
95th percentile per-packet one-way delay: 75.112 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 170.28 Mbit/s
95th percentile per-packet one-way delay: 74.797 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 70.118 ms
Loss rate: 3.10%

Run 3: Report of TCP Cubic — Data Link

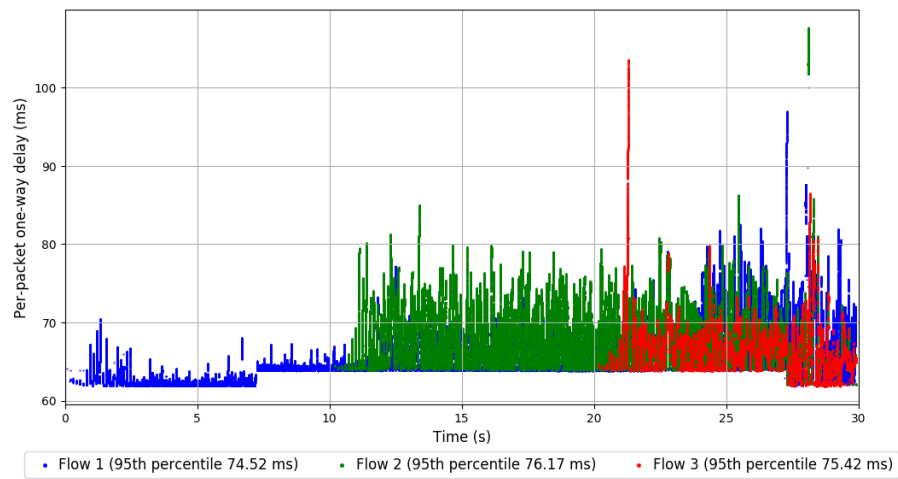
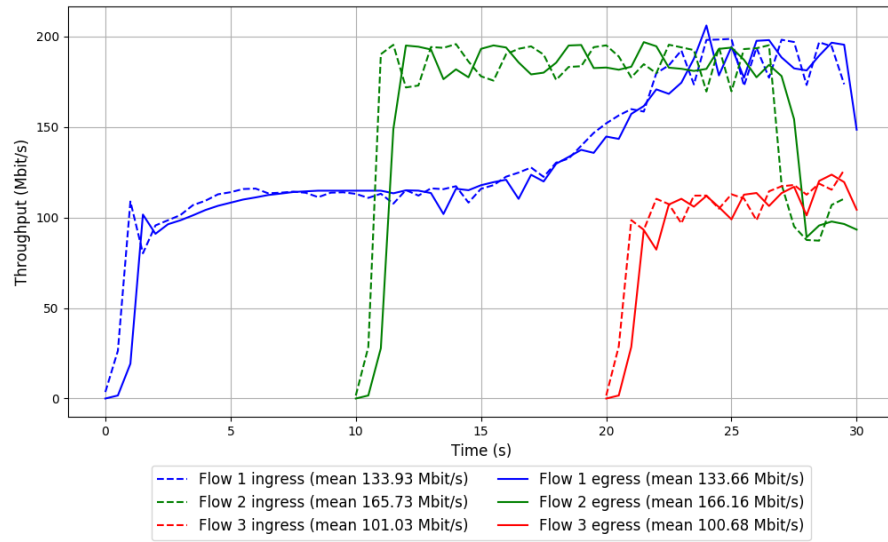


Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 18:50:33
End at: 2018-06-06 18:51:03
Local clock offset: -0.033 ms
Remote clock offset: -0.439 ms

Below is generated by plot.py at 2018-06-06 21:59:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 277.15 Mbit/s
95th percentile per-packet one-way delay: 75.655 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 133.66 Mbit/s
95th percentile per-packet one-way delay: 74.518 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 166.16 Mbit/s
95th percentile per-packet one-way delay: 76.168 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 100.68 Mbit/s
95th percentile per-packet one-way delay: 75.415 ms
Loss rate: 1.63%

Run 4: Report of TCP Cubic — Data Link

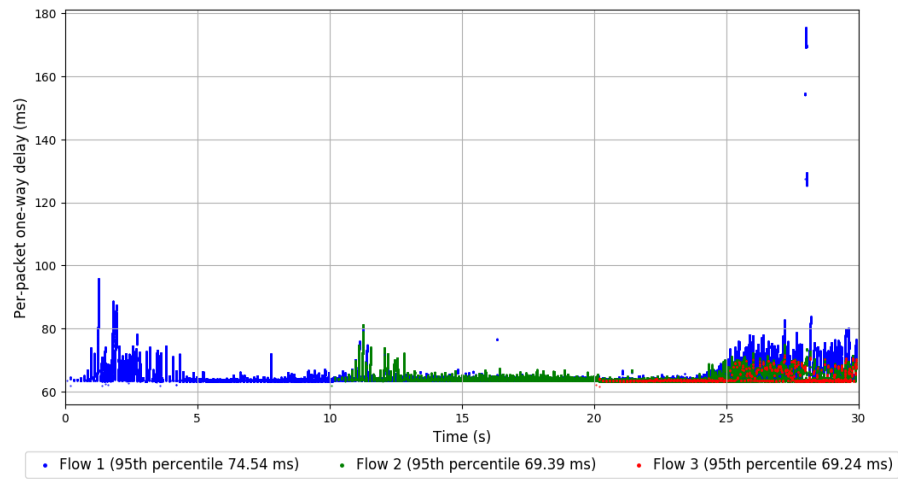
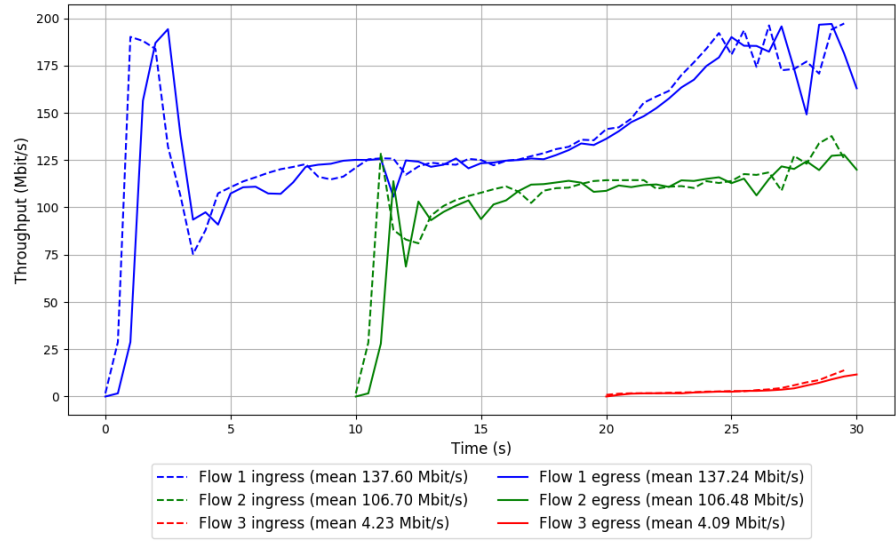


Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 19:13:50
End at: 2018-06-06 19:14:20
Local clock offset: 0.022 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-06 21:59:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 209.39 Mbit/s
95th percentile per-packet one-way delay: 73.406 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 137.24 Mbit/s
95th percentile per-packet one-way delay: 74.541 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 106.48 Mbit/s
95th percentile per-packet one-way delay: 69.385 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 4.09 Mbit/s
95th percentile per-packet one-way delay: 69.237 ms
Loss rate: 4.41%

Run 5: Report of TCP Cubic — Data Link

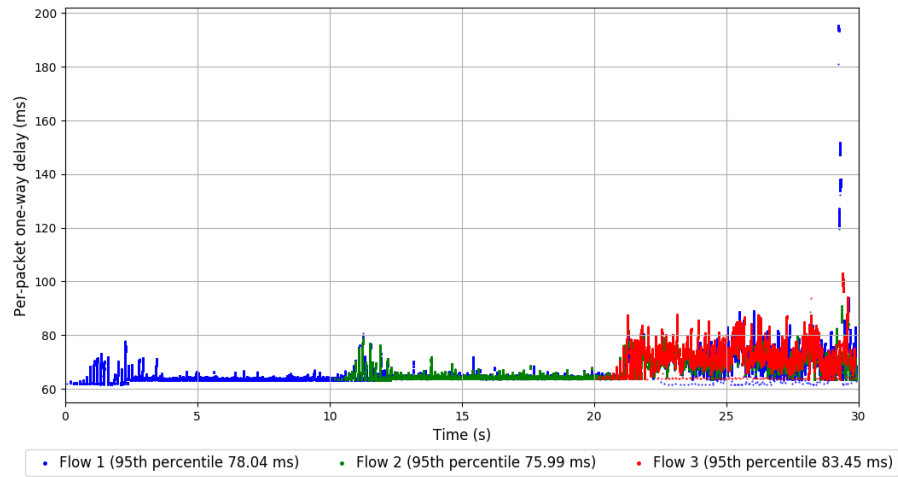
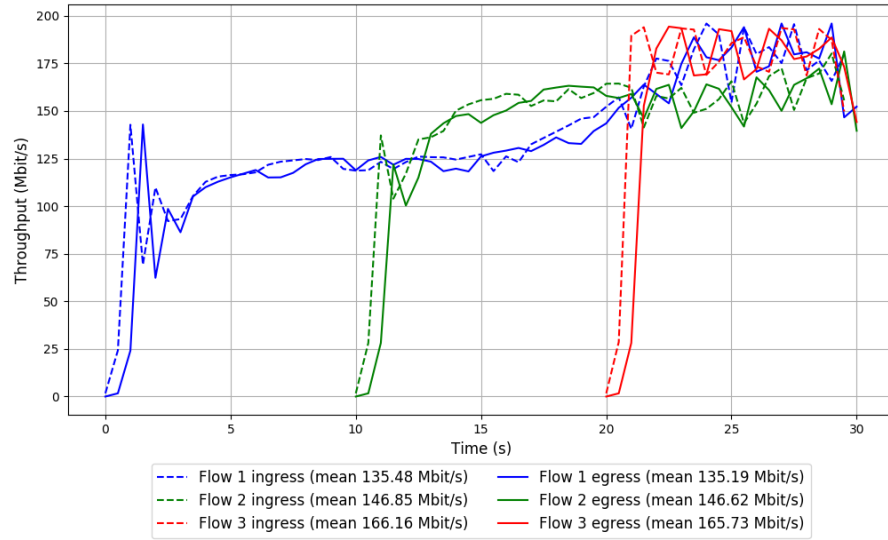


Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 19:37:08
End at: 2018-06-06 19:37:38
Local clock offset: -0.019 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2018-06-06 22:01:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 286.87 Mbit/s
95th percentile per-packet one-way delay: 79.385 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 135.19 Mbit/s
95th percentile per-packet one-way delay: 78.037 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 146.62 Mbit/s
95th percentile per-packet one-way delay: 75.988 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 165.73 Mbit/s
95th percentile per-packet one-way delay: 83.450 ms
Loss rate: 1.47%

Run 6: Report of TCP Cubic — Data Link

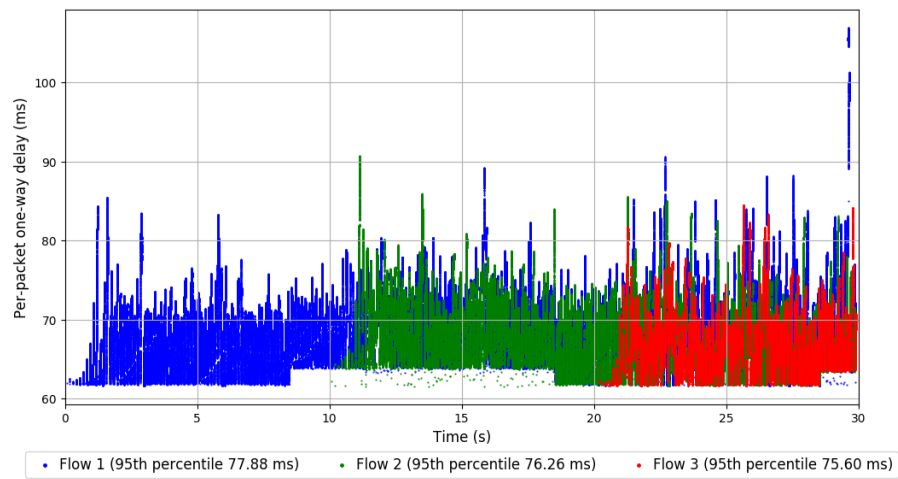
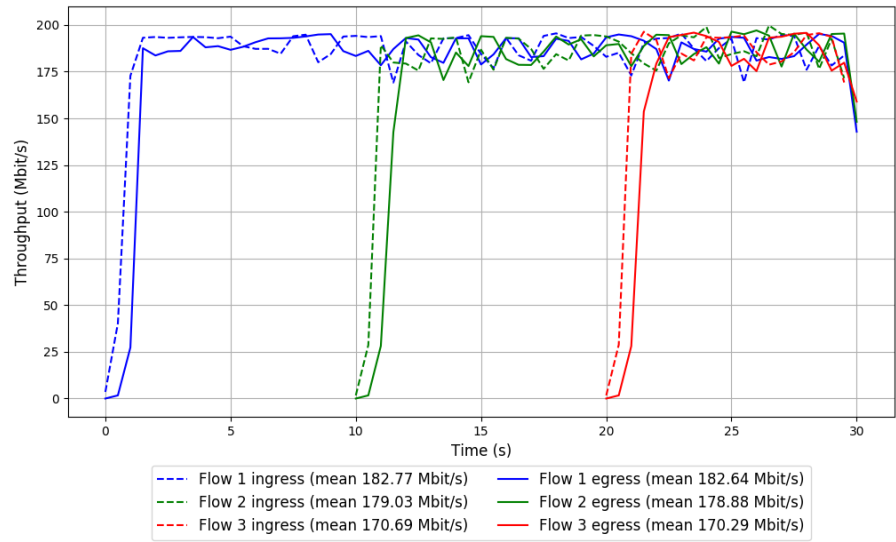


Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 20:00:22
End at: 2018-06-06 20:00:52
Local clock offset: -0.042 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2018-06-06 22:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 357.34 Mbit/s
95th percentile per-packet one-way delay: 77.094 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 182.64 Mbit/s
95th percentile per-packet one-way delay: 77.883 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 178.88 Mbit/s
95th percentile per-packet one-way delay: 76.260 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 170.29 Mbit/s
95th percentile per-packet one-way delay: 75.597 ms
Loss rate: 1.47%

Run 7: Report of TCP Cubic — Data Link

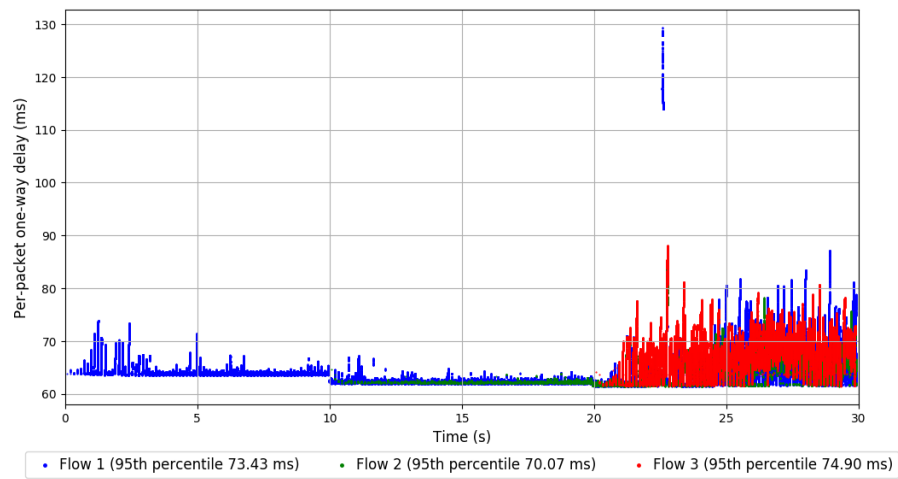
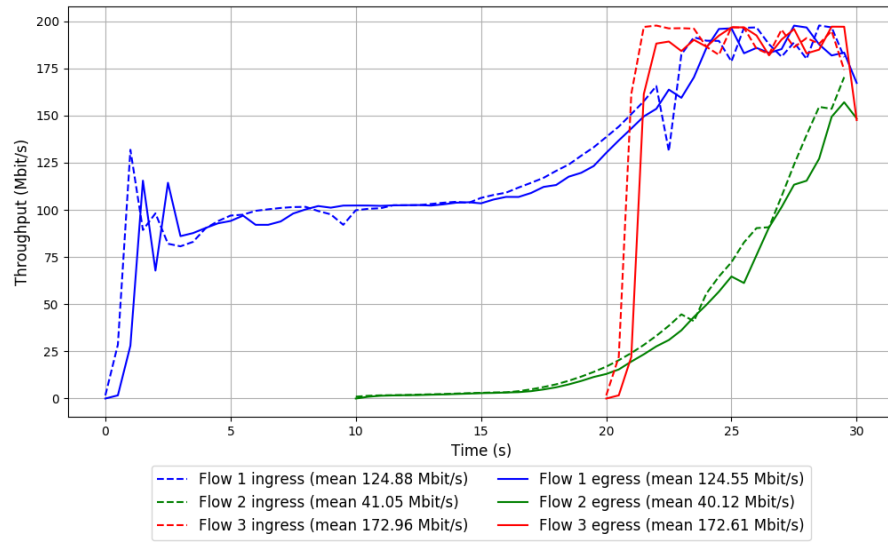


Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 20:23:31
End at: 2018-06-06 20:24:01
Local clock offset: 0.027 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-06-06 22:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 207.80 Mbit/s
95th percentile per-packet one-way delay: 73.776 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 124.55 Mbit/s
95th percentile per-packet one-way delay: 73.432 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 40.12 Mbit/s
95th percentile per-packet one-way delay: 70.068 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 172.61 Mbit/s
95th percentile per-packet one-way delay: 74.899 ms
Loss rate: 1.43%

Run 8: Report of TCP Cubic — Data Link

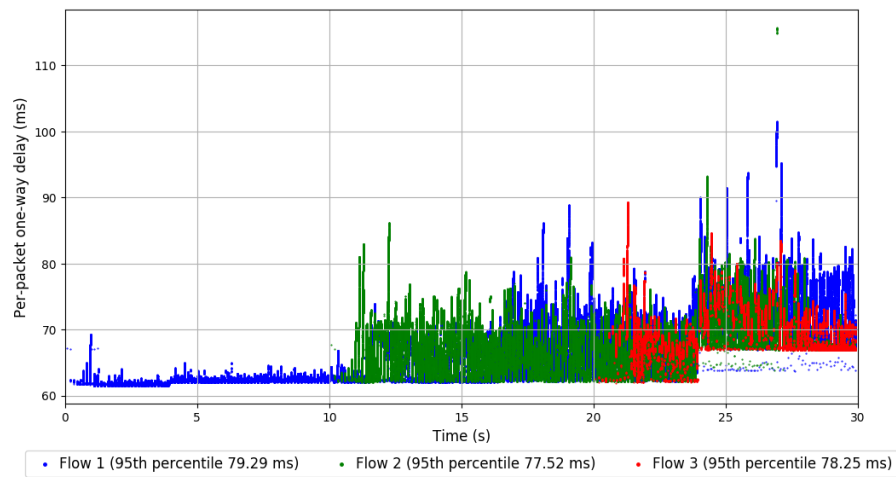
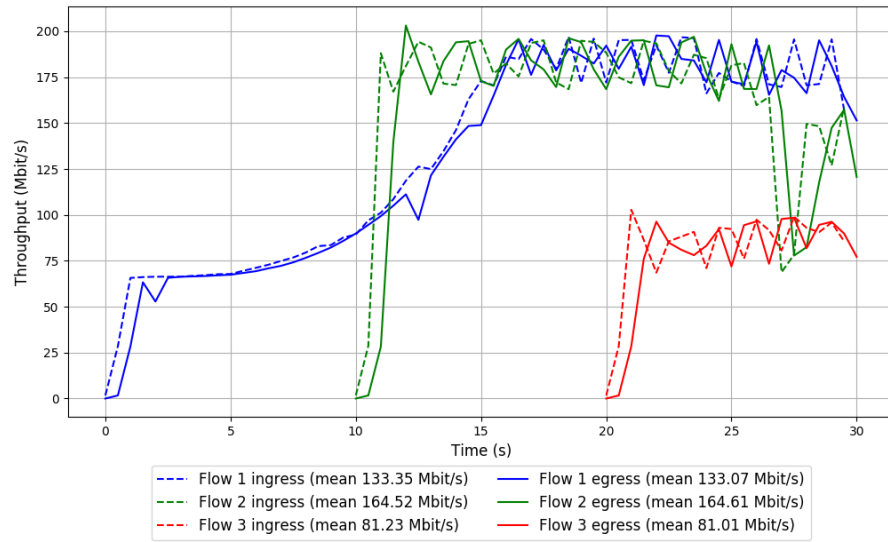


Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 20:46:57
End at: 2018-06-06 20:47:27
Local clock offset: 0.073 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-06-06 22:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 269.04 Mbit/s
95th percentile per-packet one-way delay: 78.440 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 133.07 Mbit/s
95th percentile per-packet one-way delay: 79.287 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 164.61 Mbit/s
95th percentile per-packet one-way delay: 77.522 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 81.01 Mbit/s
95th percentile per-packet one-way delay: 78.248 ms
Loss rate: 1.52%

Run 9: Report of TCP Cubic — Data Link

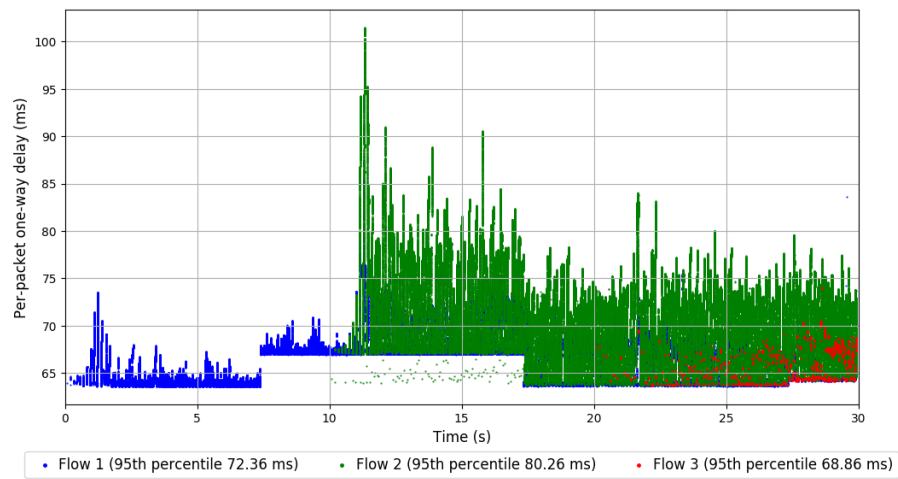
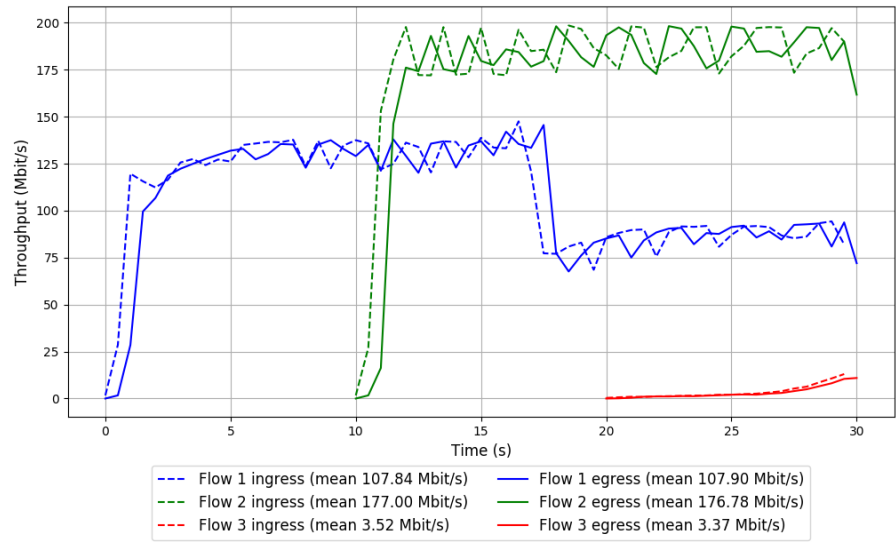


Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 21:09:43
End at: 2018-06-06 21:10:13
Local clock offset: 0.085 ms
Remote clock offset: -0.508 ms

Below is generated by plot.py at 2018-06-06 22:03:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.43 Mbit/s
95th percentile per-packet one-way delay: 77.893 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 107.90 Mbit/s
95th percentile per-packet one-way delay: 72.360 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 176.78 Mbit/s
95th percentile per-packet one-way delay: 80.264 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 3.37 Mbit/s
95th percentile per-packet one-way delay: 68.859 ms
Loss rate: 5.37%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-06 17:50:37

End at: 2018-06-06 17:51:07

Local clock offset: -0.043 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-06-06 22:24:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 1203.37 Mbit/s

95th percentile per-packet one-way delay: 150.896 ms

Loss rate: 3.37%

-- Flow 1:

Average throughput: 625.09 Mbit/s

95th percentile per-packet one-way delay: 149.650 ms

Loss rate: 3.37%

-- Flow 2:

Average throughput: 616.70 Mbit/s

95th percentile per-packet one-way delay: 152.448 ms

Loss rate: 3.54%

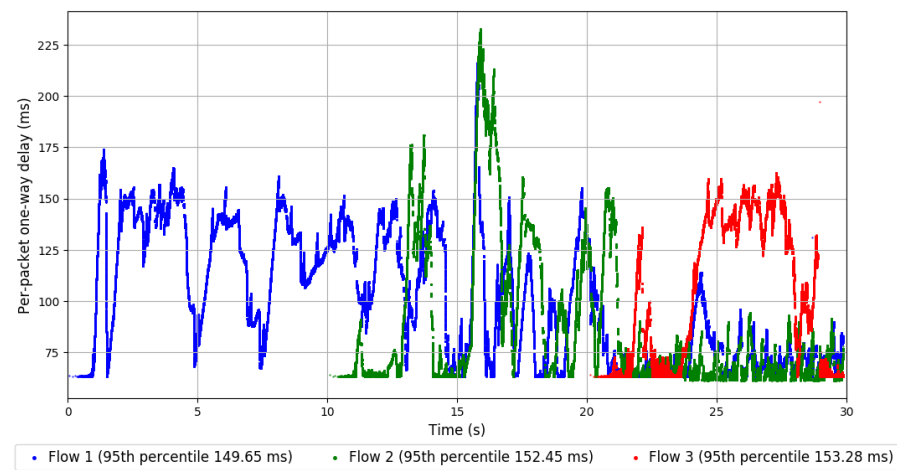
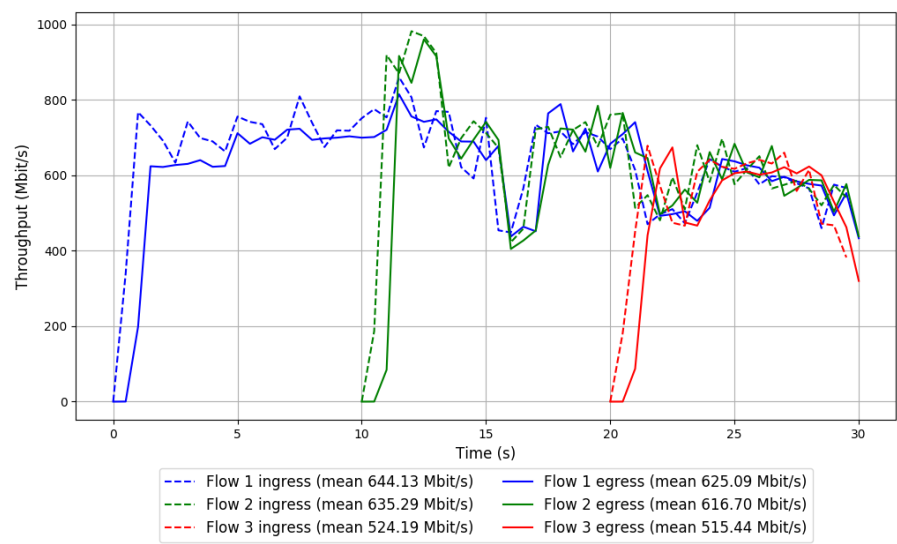
-- Flow 3:

Average throughput: 515.44 Mbit/s

95th percentile per-packet one-way delay: 153.275 ms

Loss rate: 2.94%

Run 1: Report of FillP — Data Link

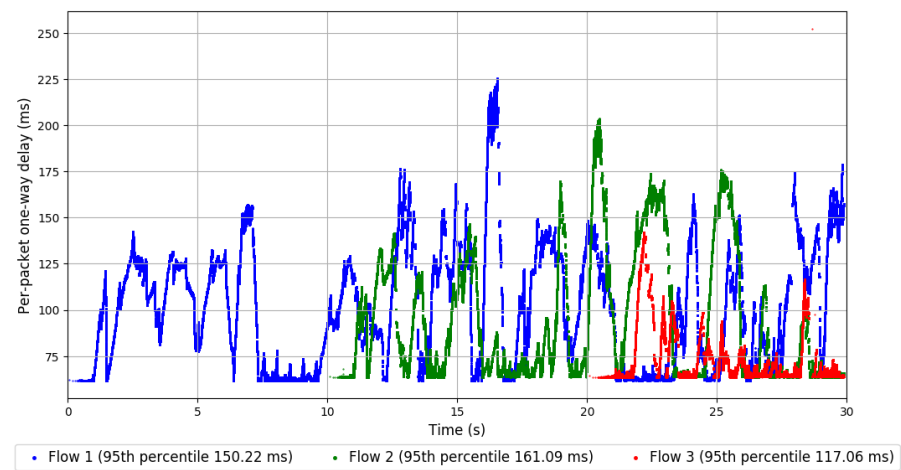
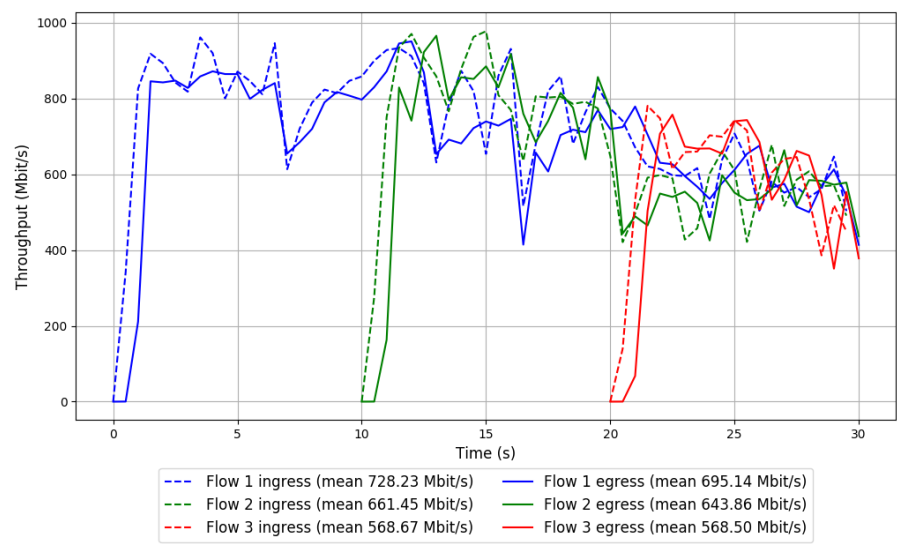


Run 2: Statistics of FillP

Start at: 2018-06-06 18:14:04
End at: 2018-06-06 18:14:34
Local clock offset: -0.039 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-06-06 22:28:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 1309.12 Mbit/s
95th percentile per-packet one-way delay: 152.015 ms
Loss rate: 3.89%
-- Flow 1:
Average throughput: 695.14 Mbit/s
95th percentile per-packet one-way delay: 150.216 ms
Loss rate: 4.95%
-- Flow 2:
Average throughput: 643.86 Mbit/s
95th percentile per-packet one-way delay: 161.090 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 568.50 Mbit/s
95th percentile per-packet one-way delay: 117.057 ms
Loss rate: 1.31%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-06 18:37:17

End at: 2018-06-06 18:37:47

Local clock offset: -0.024 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2018-06-06 22:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 1370.29 Mbit/s

95th percentile per-packet one-way delay: 180.787 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 709.56 Mbit/s

95th percentile per-packet one-way delay: 218.727 ms

Loss rate: 3.16%

-- Flow 2:

Average throughput: 684.84 Mbit/s

95th percentile per-packet one-way delay: 140.955 ms

Loss rate: 3.12%

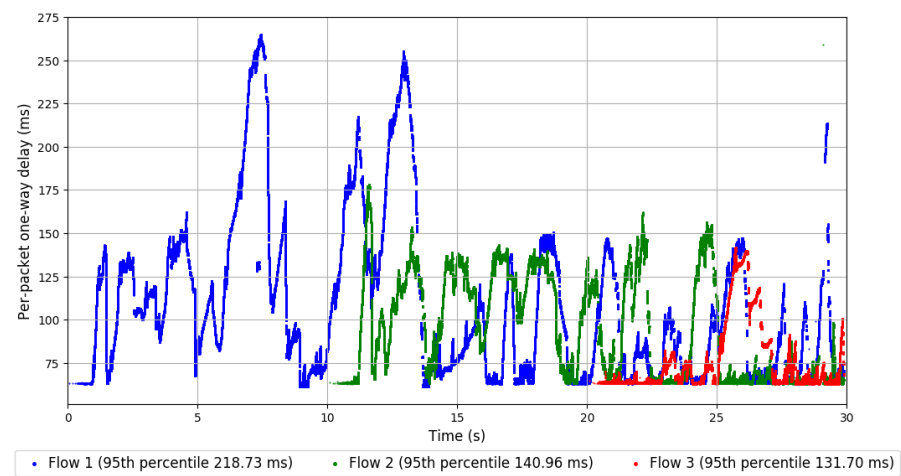
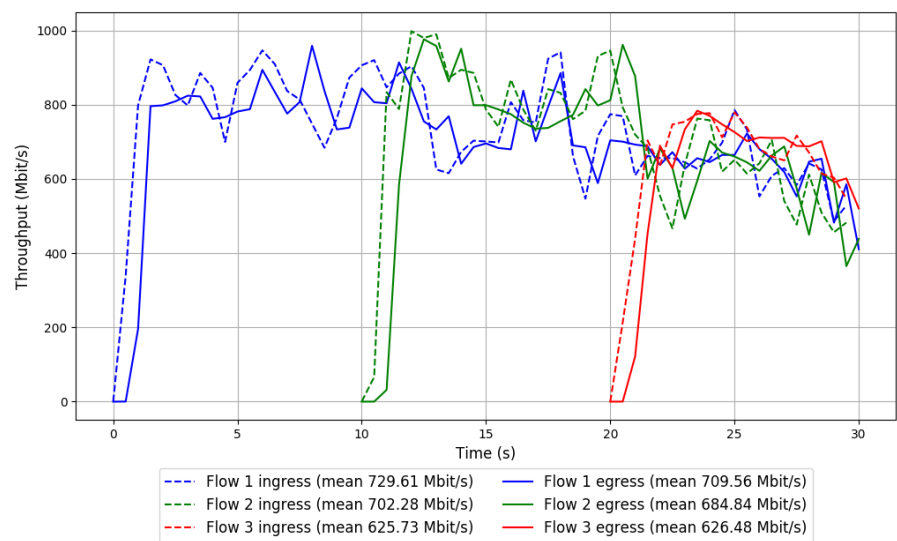
-- Flow 3:

Average throughput: 626.48 Mbit/s

95th percentile per-packet one-way delay: 131.697 ms

Loss rate: 1.11%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-06 19:00:38

End at: 2018-06-06 19:01:08

Local clock offset: -0.007 ms

Remote clock offset: -0.36 ms

Below is generated by plot.py at 2018-06-06 22:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 1262.42 Mbit/s

95th percentile per-packet one-way delay: 185.780 ms

Loss rate: 4.73%

-- Flow 1:

Average throughput: 656.92 Mbit/s

95th percentile per-packet one-way delay: 183.725 ms

Loss rate: 6.27%

-- Flow 2:

Average throughput: 620.98 Mbit/s

95th percentile per-packet one-way delay: 208.212 ms

Loss rate: 3.44%

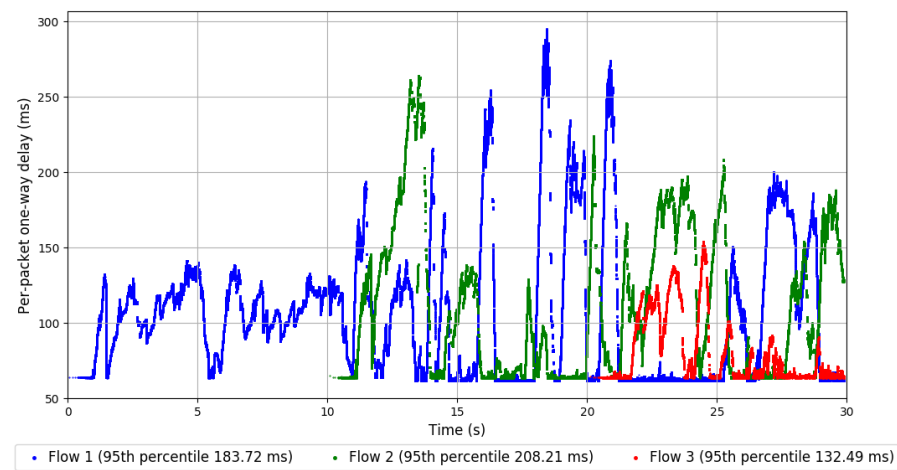
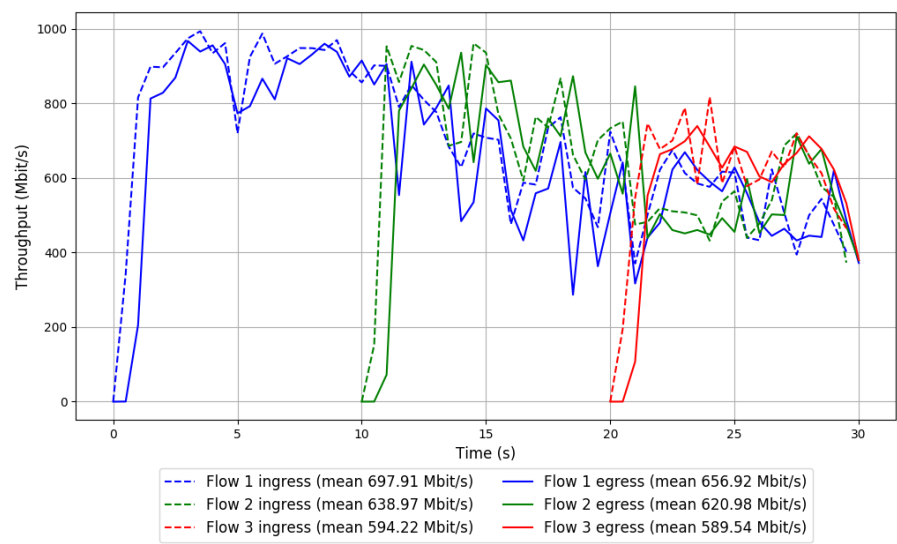
-- Flow 3:

Average throughput: 589.54 Mbit/s

95th percentile per-packet one-way delay: 132.488 ms

Loss rate: 2.07%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-06 19:23:53

End at: 2018-06-06 19:24:23

Local clock offset: -0.028 ms

Remote clock offset: -0.16 ms

Below is generated by plot.py at 2018-06-06 22:31:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 1273.81 Mbit/s

95th percentile per-packet one-way delay: 162.372 ms

Loss rate: 4.98%

-- Flow 1:

Average throughput: 705.47 Mbit/s

95th percentile per-packet one-way delay: 154.884 ms

Loss rate: 4.77%

-- Flow 2:

Average throughput: 617.91 Mbit/s

95th percentile per-packet one-way delay: 156.141 ms

Loss rate: 5.27%

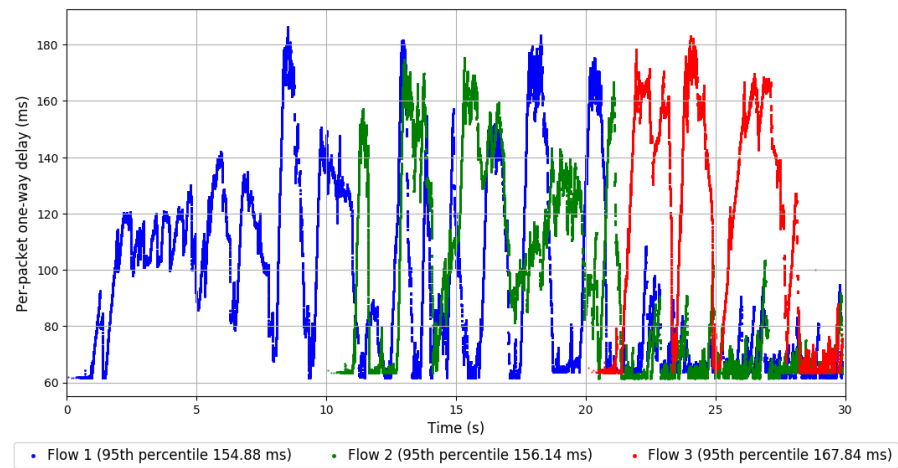
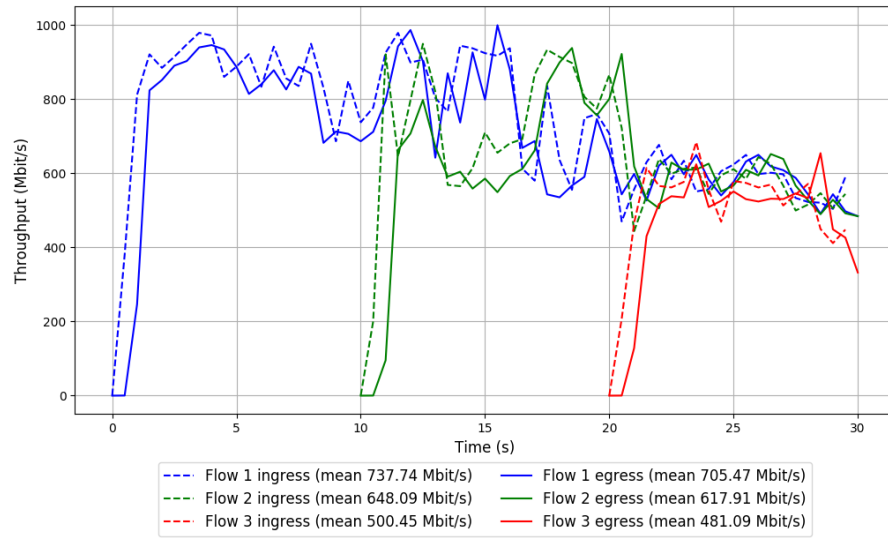
-- Flow 3:

Average throughput: 481.09 Mbit/s

95th percentile per-packet one-way delay: 167.836 ms

Loss rate: 5.11%

Run 5: Report of FillP — Data Link

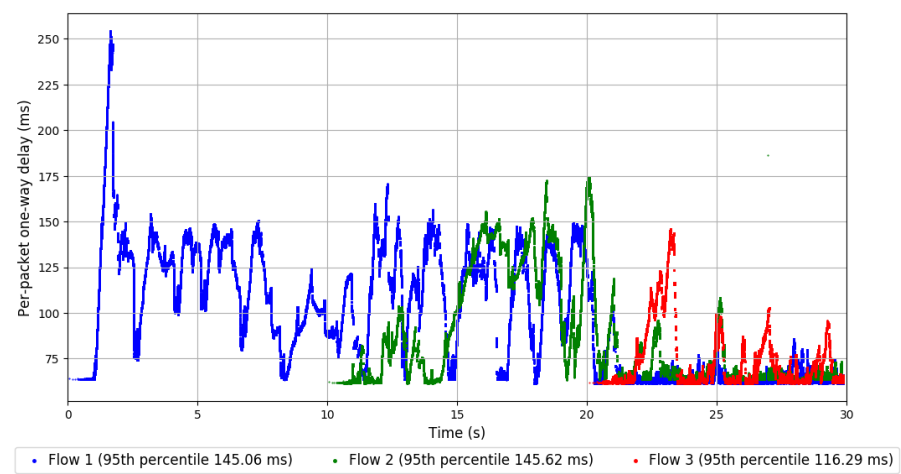
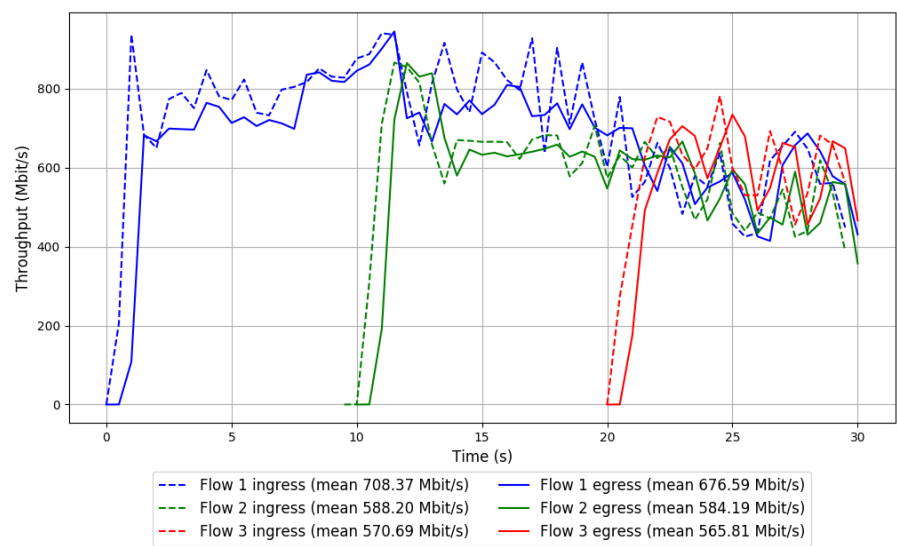


Run 6: Statistics of FillP

Start at: 2018-06-06 19:47:13
End at: 2018-06-06 19:47:43
Local clock offset: -0.037 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-06-06 22:31:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 1250.18 Mbit/s
95th percentile per-packet one-way delay: 144.019 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 676.59 Mbit/s
95th percentile per-packet one-way delay: 145.060 ms
Loss rate: 4.90%
-- Flow 2:
Average throughput: 584.19 Mbit/s
95th percentile per-packet one-way delay: 145.616 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 565.81 Mbit/s
95th percentile per-packet one-way delay: 116.288 ms
Loss rate: 2.10%

Run 6: Report of FillP — Data Link

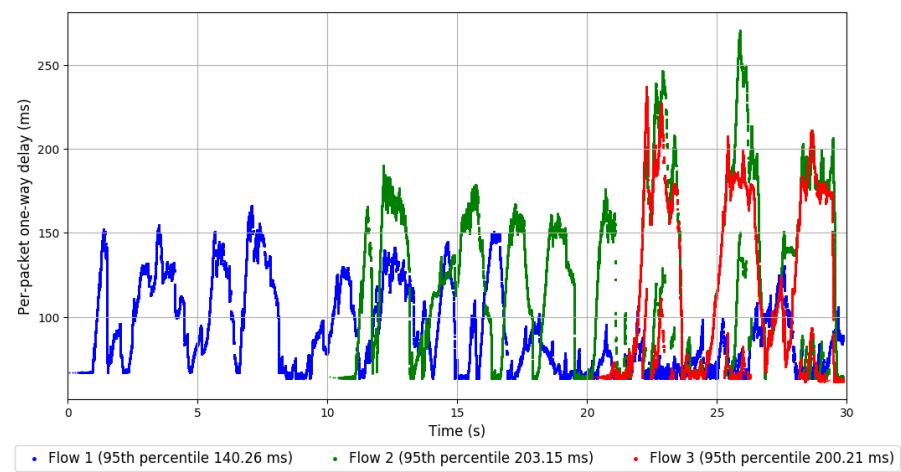
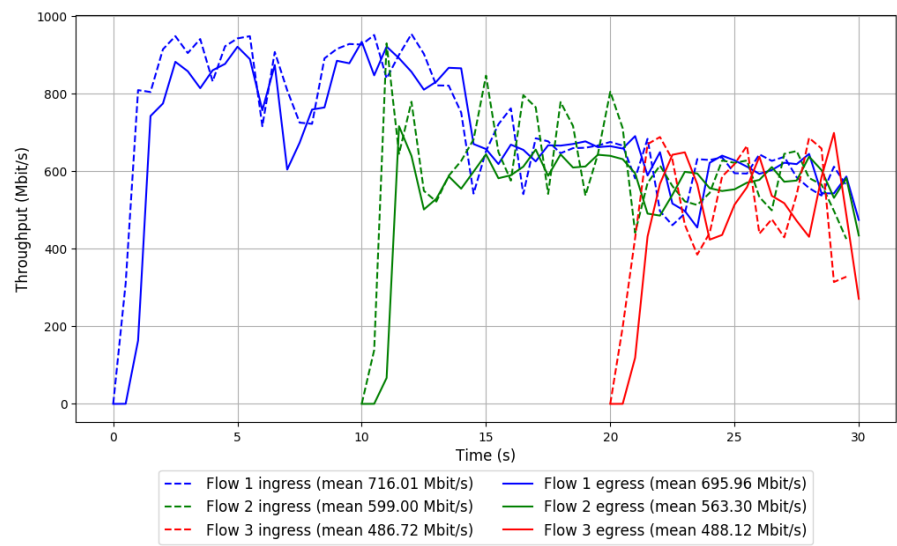


Run 7: Statistics of FillP

Start at: 2018-06-06 20:10:32
End at: 2018-06-06 20:11:02
Local clock offset: -0.049 ms
Remote clock offset: -0.157 ms

Below is generated by plot.py at 2018-06-06 22:31:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 1230.14 Mbit/s
95th percentile per-packet one-way delay: 184.769 ms
Loss rate: 4.00%
-- Flow 1:
Average throughput: 695.96 Mbit/s
95th percentile per-packet one-way delay: 140.260 ms
Loss rate: 3.23%
-- Flow 2:
Average throughput: 563.30 Mbit/s
95th percentile per-packet one-way delay: 203.145 ms
Loss rate: 6.58%
-- Flow 3:
Average throughput: 488.12 Mbit/s
95th percentile per-packet one-way delay: 200.208 ms
Loss rate: 1.05%

Run 7: Report of FillP — Data Link

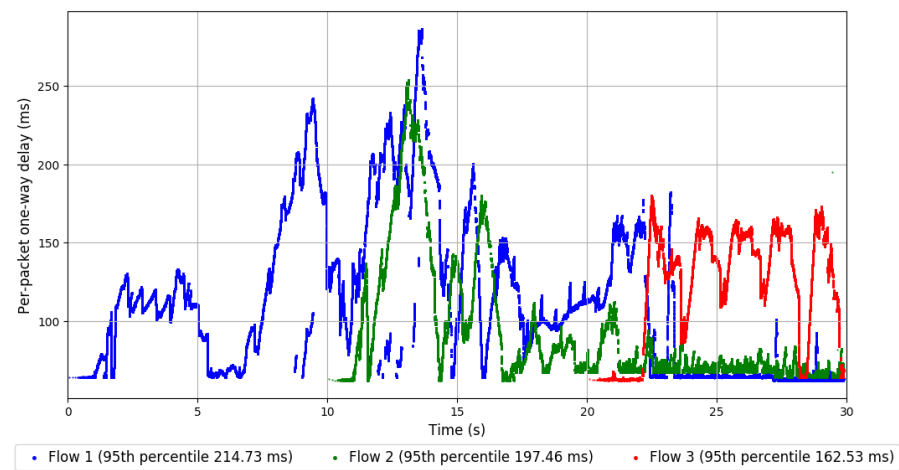
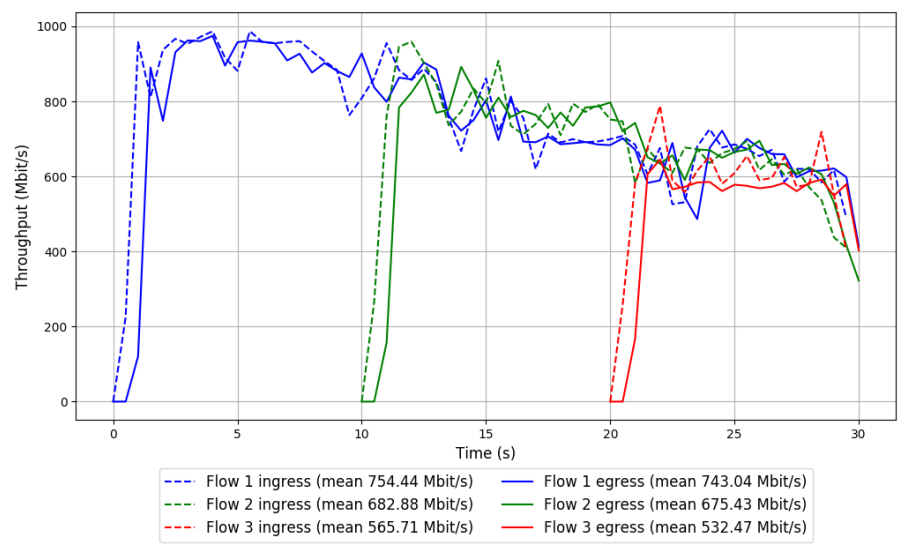


Run 8: Statistics of FillP

Start at: 2018-06-06 20:33:33
End at: 2018-06-06 20:34:03
Local clock offset: 0.053 ms
Remote clock offset: -0.511 ms

Below is generated by plot.py at 2018-06-06 22:34:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 1366.70 Mbit/s
95th percentile per-packet one-way delay: 205.565 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 743.04 Mbit/s
95th percentile per-packet one-way delay: 214.729 ms
Loss rate: 1.94%
-- Flow 2:
Average throughput: 675.43 Mbit/s
95th percentile per-packet one-way delay: 197.464 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 532.47 Mbit/s
95th percentile per-packet one-way delay: 162.530 ms
Loss rate: 7.10%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-06 20:56:56

End at: 2018-06-06 20:57:26

Local clock offset: 0.074 ms

Remote clock offset: -0.24 ms

Below is generated by plot.py at 2018-06-06 22:56:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 1236.44 Mbit/s

95th percentile per-packet one-way delay: 146.611 ms

Loss rate: 3.08%

-- Flow 1:

Average throughput: 659.35 Mbit/s

95th percentile per-packet one-way delay: 141.041 ms

Loss rate: 2.70%

-- Flow 2:

Average throughput: 576.41 Mbit/s

95th percentile per-packet one-way delay: 160.091 ms

Loss rate: 4.40%

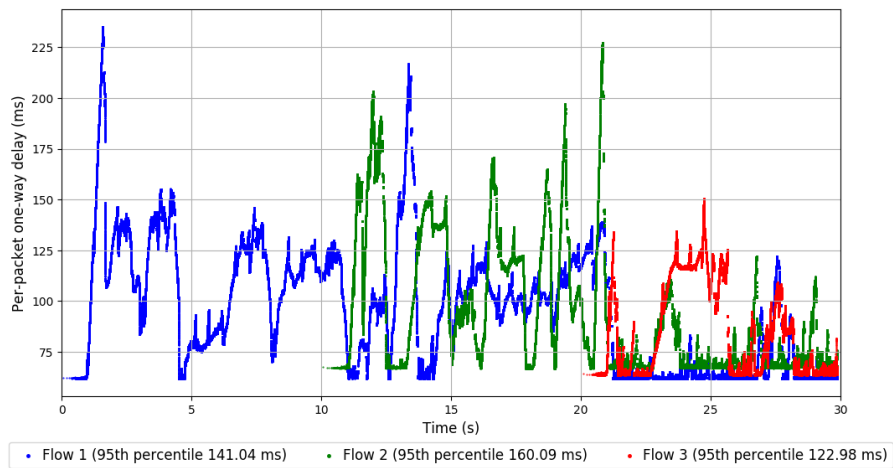
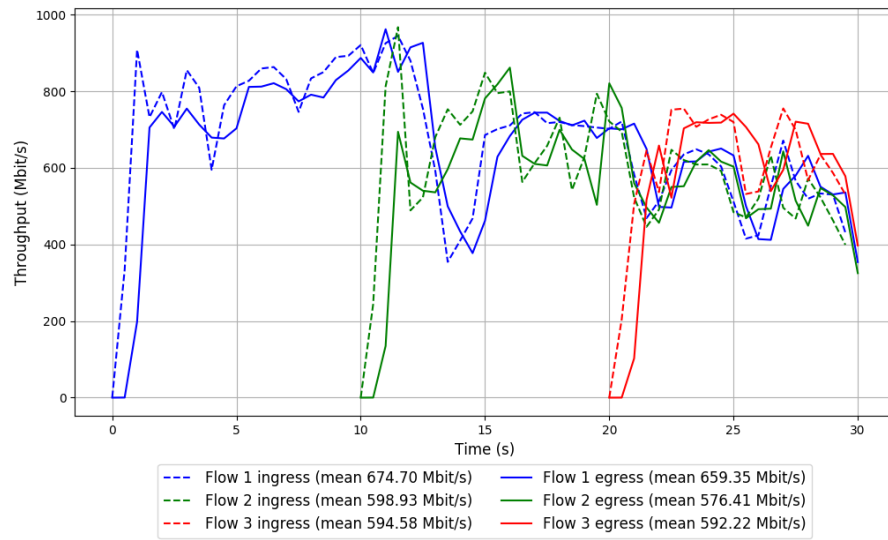
-- Flow 3:

Average throughput: 592.22 Mbit/s

95th percentile per-packet one-way delay: 122.981 ms

Loss rate: 1.72%

Run 9: Report of FillP — Data Link

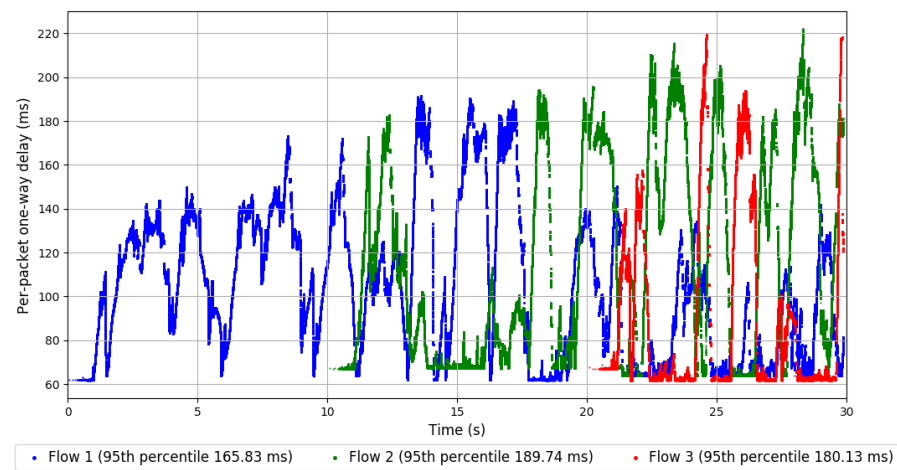
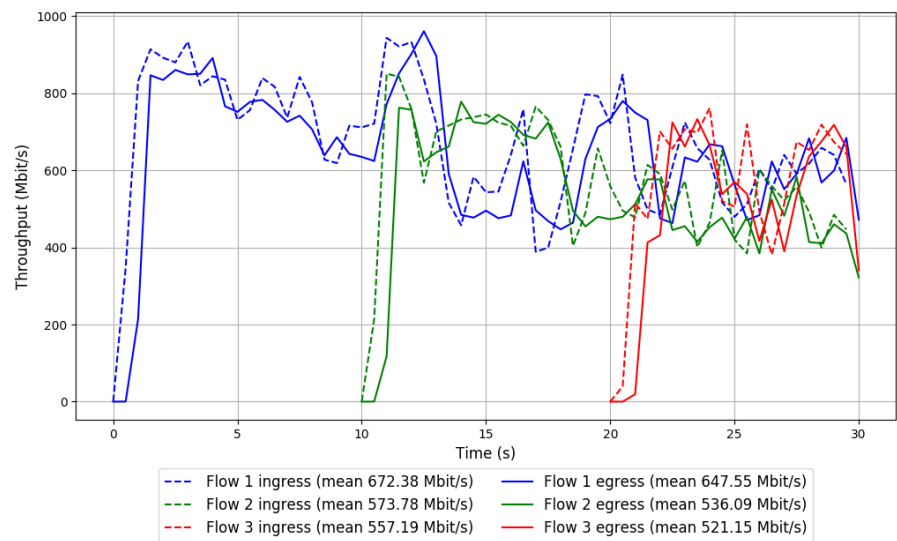


Run 10: Statistics of FillP

Start at: 2018-06-06 21:19:39
End at: 2018-06-06 21:20:09
Local clock offset: 0.106 ms
Remote clock offset: -0.299 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 1174.21 Mbit/s
95th percentile per-packet one-way delay: 178.706 ms
Loss rate: 5.59%
-- Flow 1:
Average throughput: 647.55 Mbit/s
95th percentile per-packet one-way delay: 165.833 ms
Loss rate: 4.09%
-- Flow 2:
Average throughput: 536.09 Mbit/s
95th percentile per-packet one-way delay: 189.736 ms
Loss rate: 7.19%
-- Flow 3:
Average throughput: 521.15 Mbit/s
95th percentile per-packet one-way delay: 180.132 ms
Loss rate: 7.75%

Run 10: Report of FillP — Data Link

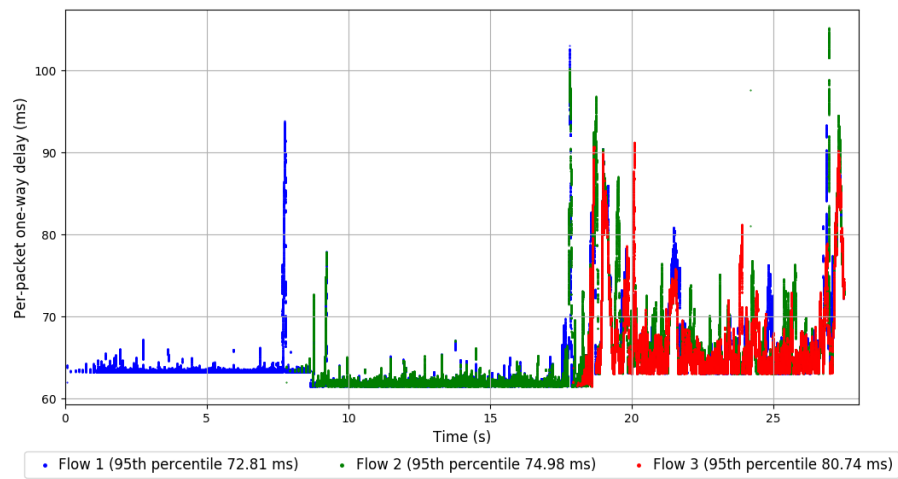
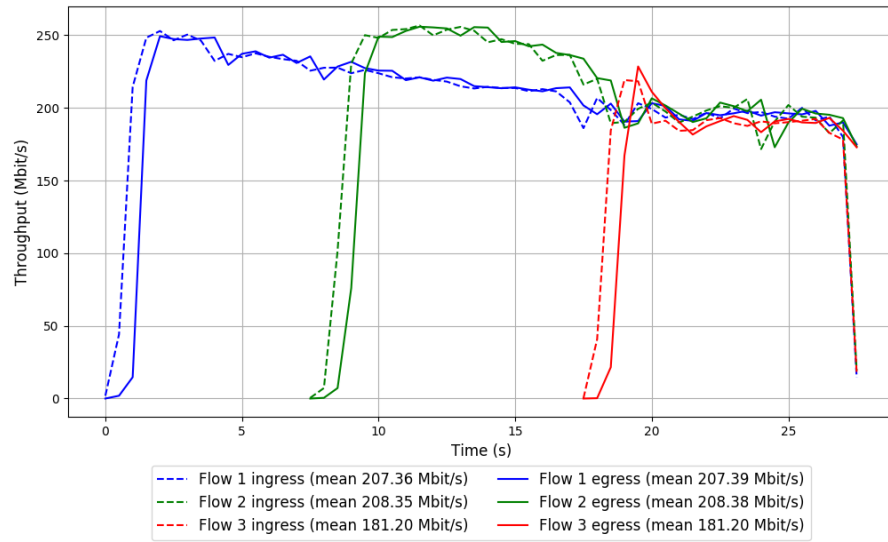


```
Run 1: Statistics of Indigo

Start at: 2018-06-06 17:43:29
End at: 2018-06-06 17:44:00
Local clock offset: -0.05 ms
Remote clock offset: 0.099 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 419.95 Mbit/s
95th percentile per-packet one-way delay: 75.068 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 207.39 Mbit/s
95th percentile per-packet one-way delay: 72.807 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 208.38 Mbit/s
95th percentile per-packet one-way delay: 74.983 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 181.20 Mbit/s
95th percentile per-packet one-way delay: 80.742 ms
Loss rate: 1.31%
```


Run 1: Report of Indigo — Data Link

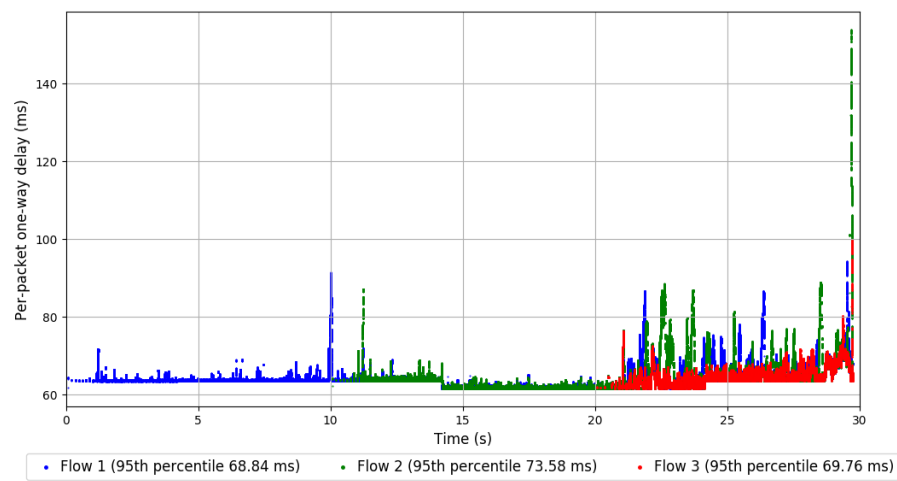
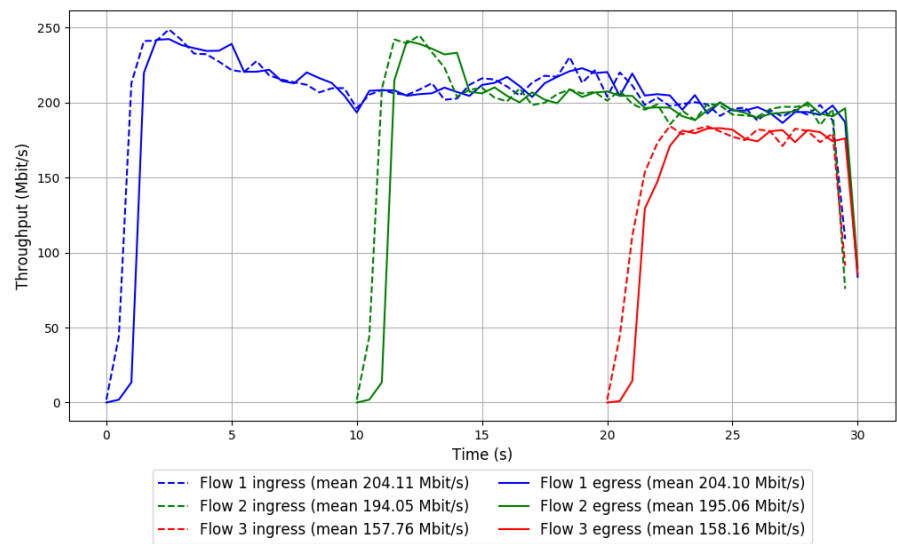


Run 2: Statistics of Indigo

Start at: 2018-06-06 18:06:46
End at: 2018-06-06 18:07:16
Local clock offset: -0.047 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 384.82 Mbit/s
95th percentile per-packet one-way delay: 70.418 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 204.10 Mbit/s
95th percentile per-packet one-way delay: 68.837 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 195.06 Mbit/s
95th percentile per-packet one-way delay: 73.575 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 158.16 Mbit/s
95th percentile per-packet one-way delay: 69.762 ms
Loss rate: 1.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-06 18:30:15

End at: 2018-06-06 18:30:45

Local clock offset: -0.025 ms

Remote clock offset: -0.11 ms

Below is generated by plot.py at 2018-06-06 22:57:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 392.69 Mbit/s

95th percentile per-packet one-way delay: 67.703 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 208.16 Mbit/s

95th percentile per-packet one-way delay: 67.356 ms

Loss rate: 0.39%

-- Flow 2:

Average throughput: 196.81 Mbit/s

95th percentile per-packet one-way delay: 68.170 ms

Loss rate: 0.66%

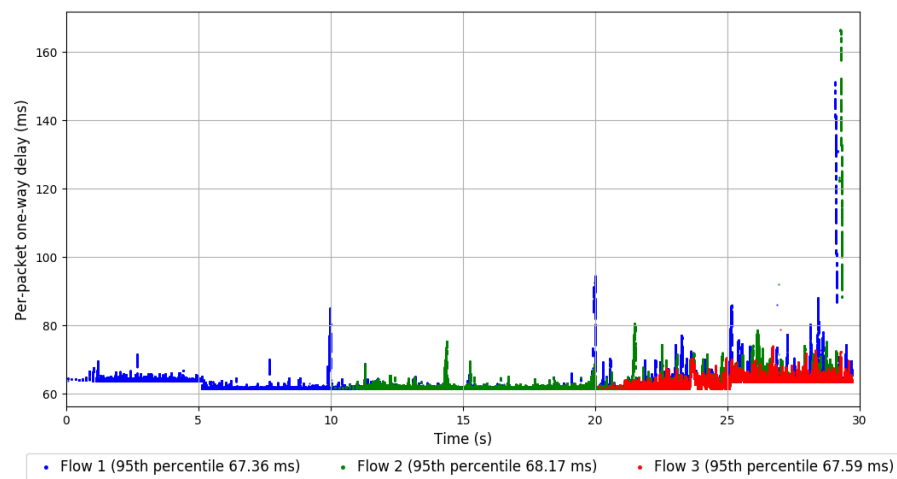
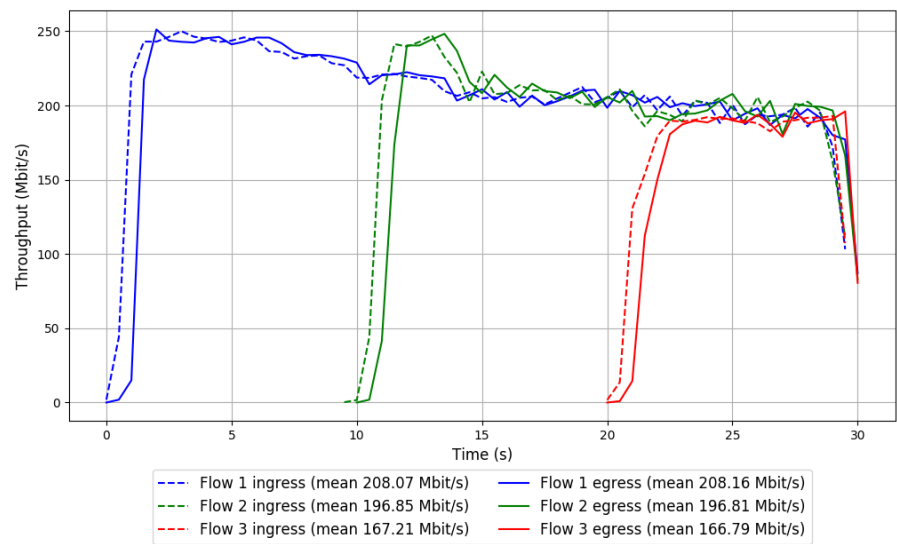
-- Flow 3:

Average throughput: 166.79 Mbit/s

95th percentile per-packet one-way delay: 67.589 ms

Loss rate: 1.55%

Run 3: Report of Indigo — Data Link

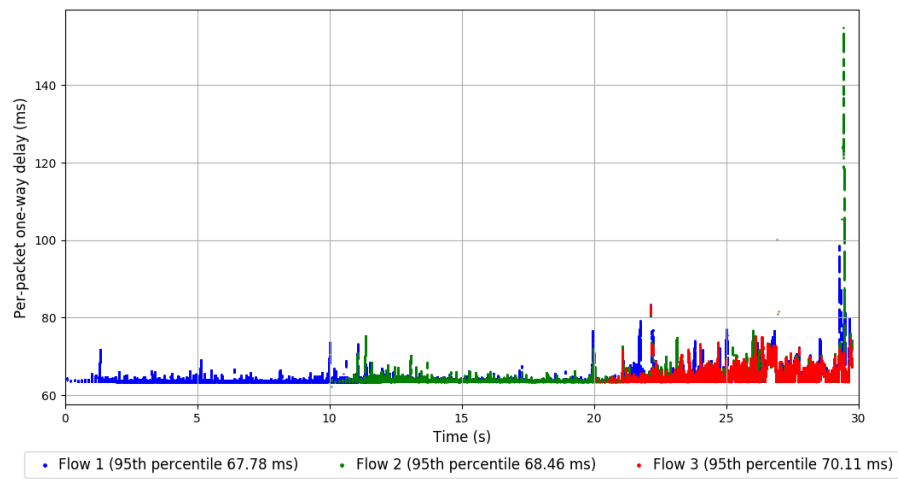
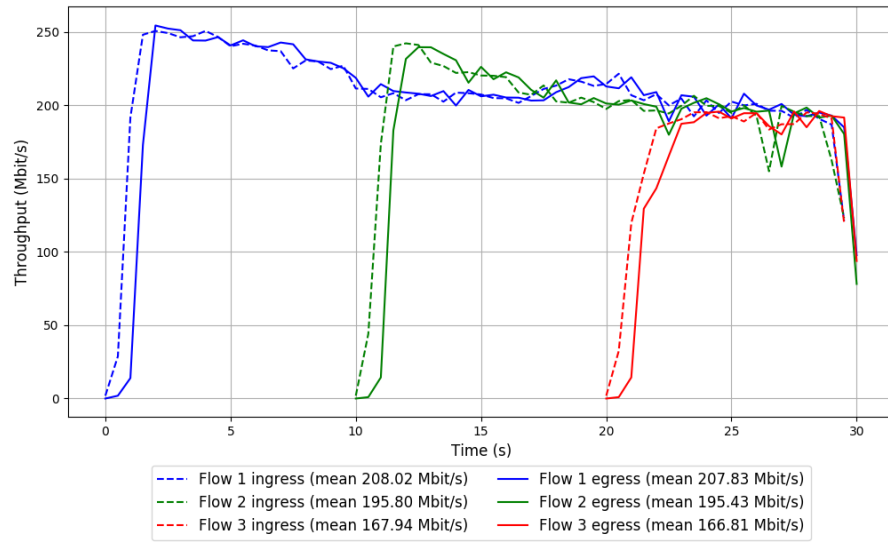


Run 4: Statistics of Indigo

Start at: 2018-06-06 18:53:28
End at: 2018-06-06 18:53:58
Local clock offset: 0.017 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 391.57 Mbit/s
95th percentile per-packet one-way delay: 68.642 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 207.83 Mbit/s
95th percentile per-packet one-way delay: 67.779 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 195.43 Mbit/s
95th percentile per-packet one-way delay: 68.457 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 166.81 Mbit/s
95th percentile per-packet one-way delay: 70.108 ms
Loss rate: 1.95%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-06 19:16:41

End at: 2018-06-06 19:17:11

Local clock offset: -0.021 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-06-06 22:57:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 389.82 Mbit/s

95th percentile per-packet one-way delay: 71.876 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 205.99 Mbit/s

95th percentile per-packet one-way delay: 69.405 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 198.69 Mbit/s

95th percentile per-packet one-way delay: 72.711 ms

Loss rate: 0.67%

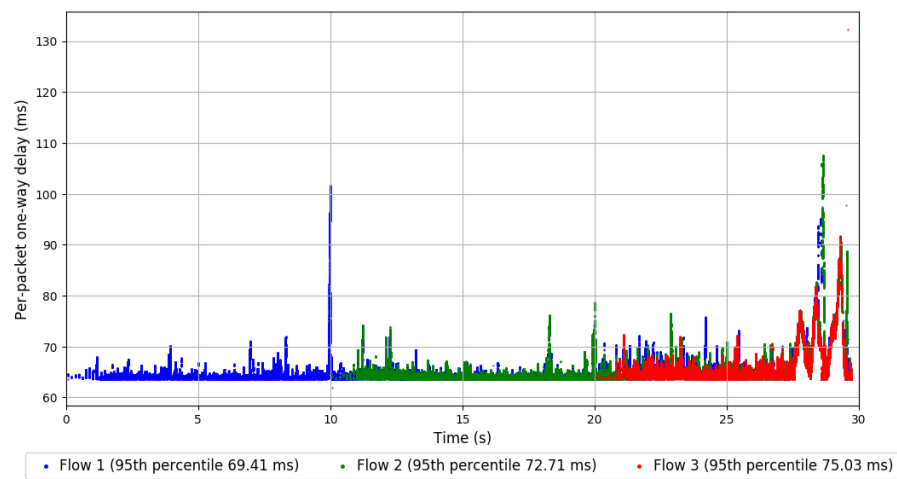
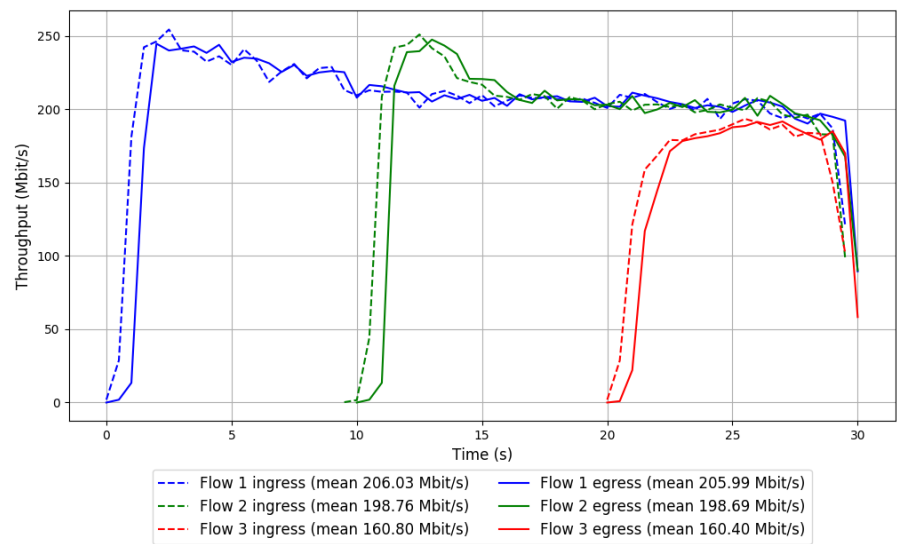
-- Flow 3:

Average throughput: 160.40 Mbit/s

95th percentile per-packet one-way delay: 75.029 ms

Loss rate: 1.59%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-06 19:40:02

End at: 2018-06-06 19:40:32

Local clock offset: -0.016 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-06 22:57:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 397.81 Mbit/s

95th percentile per-packet one-way delay: 66.937 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 208.98 Mbit/s

95th percentile per-packet one-way delay: 66.443 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 200.45 Mbit/s

95th percentile per-packet one-way delay: 67.216 ms

Loss rate: 0.57%

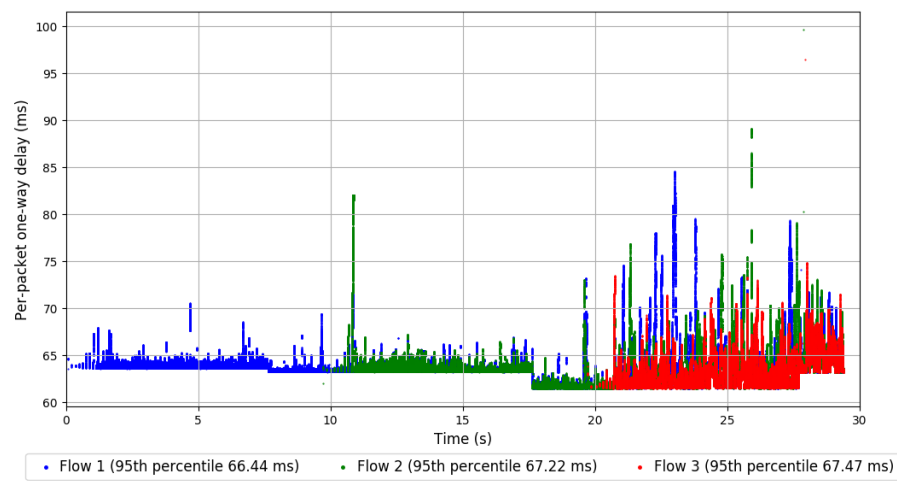
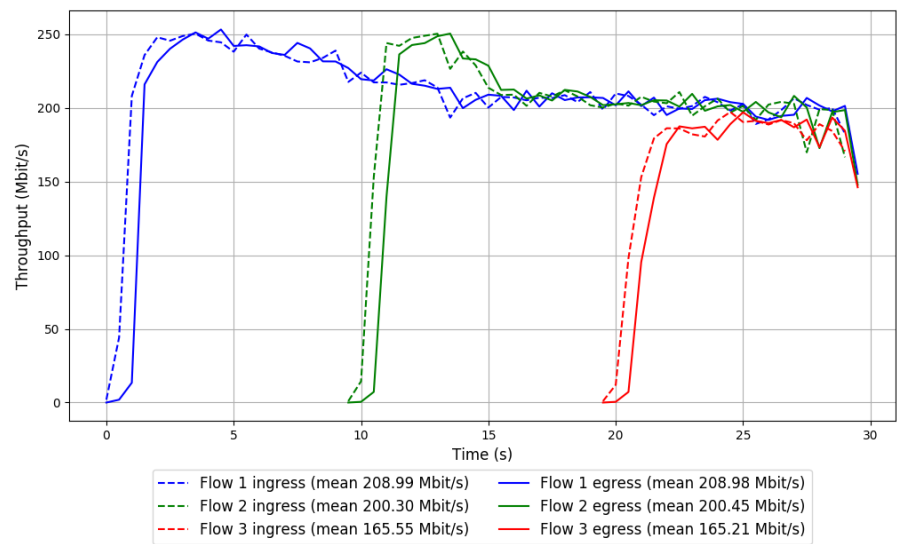
-- Flow 3:

Average throughput: 165.21 Mbit/s

95th percentile per-packet one-way delay: 67.471 ms

Loss rate: 1.50%

Run 6: Report of Indigo — Data Link

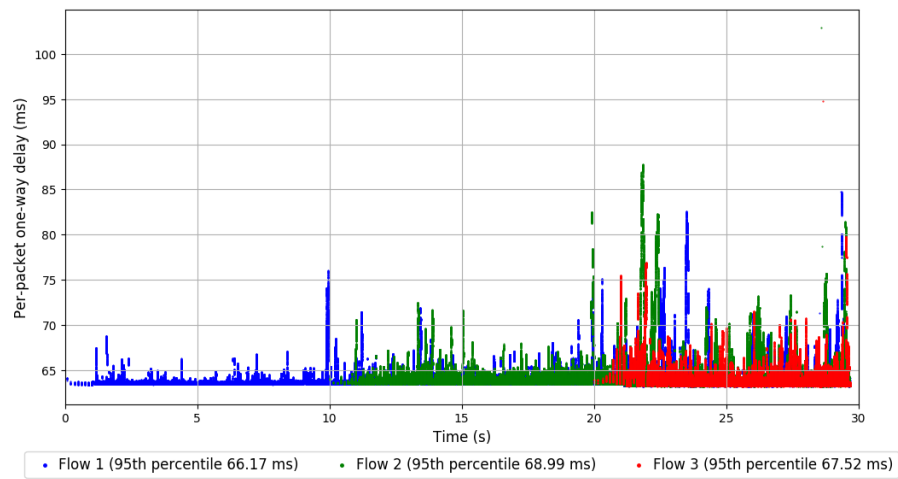
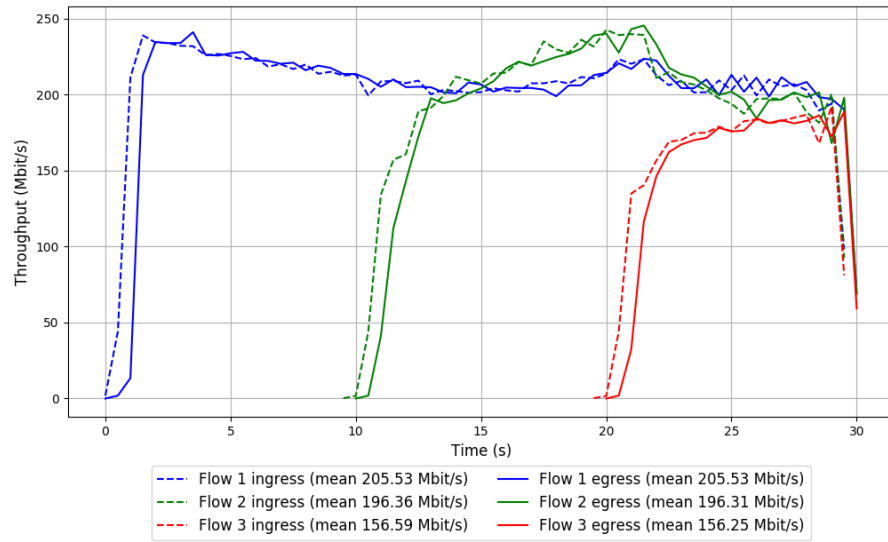


Run 7: Statistics of Indigo

Start at: 2018-06-06 20:03:19
End at: 2018-06-06 20:03:49
Local clock offset: -0.006 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 386.77 Mbit/s
95th percentile per-packet one-way delay: 67.278 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 205.53 Mbit/s
95th percentile per-packet one-way delay: 66.165 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 196.31 Mbit/s
95th percentile per-packet one-way delay: 68.988 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 156.25 Mbit/s
95th percentile per-packet one-way delay: 67.520 ms
Loss rate: 1.53%

Run 7: Report of Indigo — Data Link

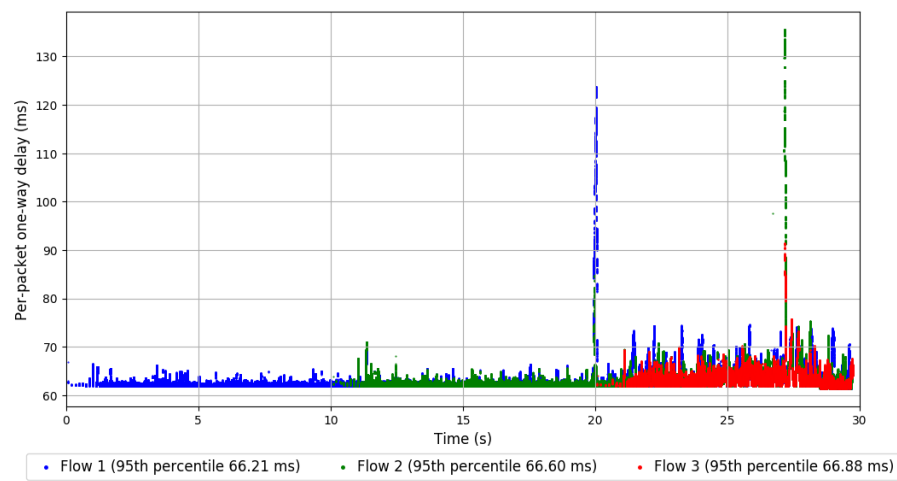
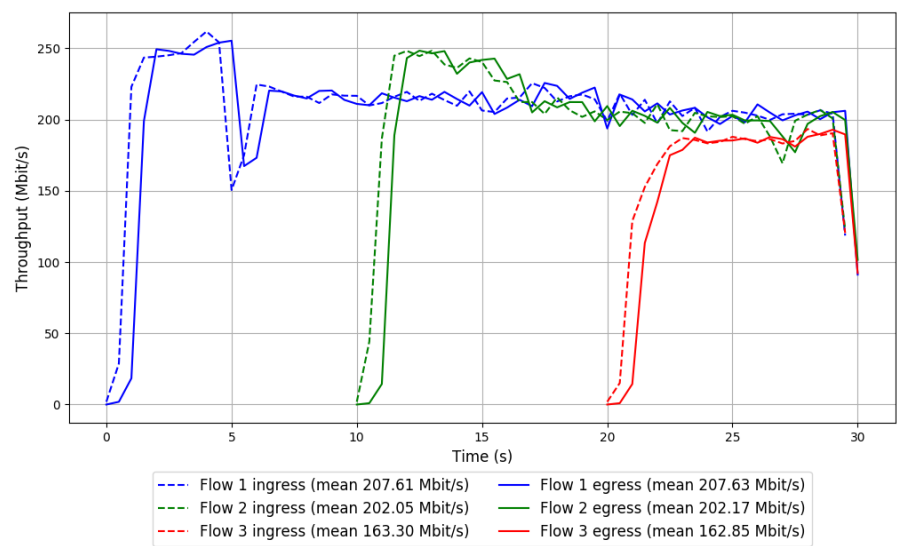


Run 8: Statistics of Indigo

Start at: 2018-06-06 20:26:22
End at: 2018-06-06 20:26:52
Local clock offset: -0.01 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 394.47 Mbit/s
95th percentile per-packet one-way delay: 66.485 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 207.63 Mbit/s
95th percentile per-packet one-way delay: 66.213 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 202.17 Mbit/s
95th percentile per-packet one-way delay: 66.603 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 162.85 Mbit/s
95th percentile per-packet one-way delay: 66.878 ms
Loss rate: 1.59%

Run 8: Report of Indigo — Data Link

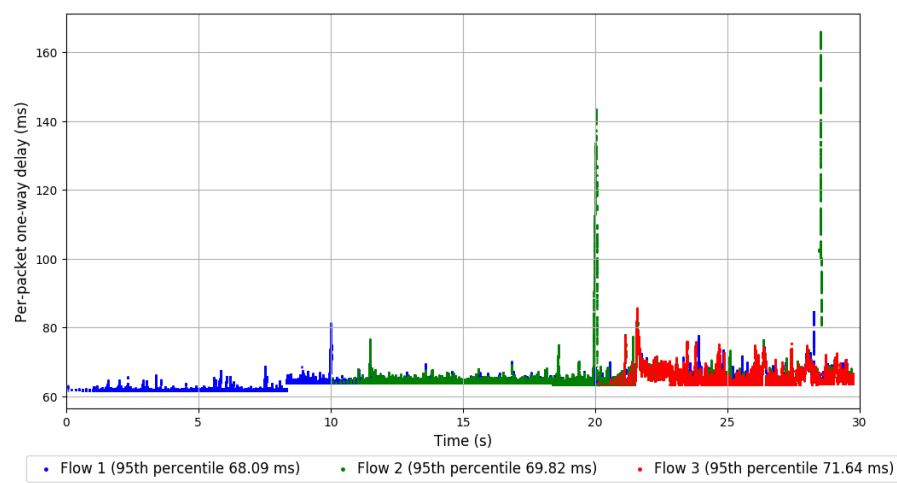
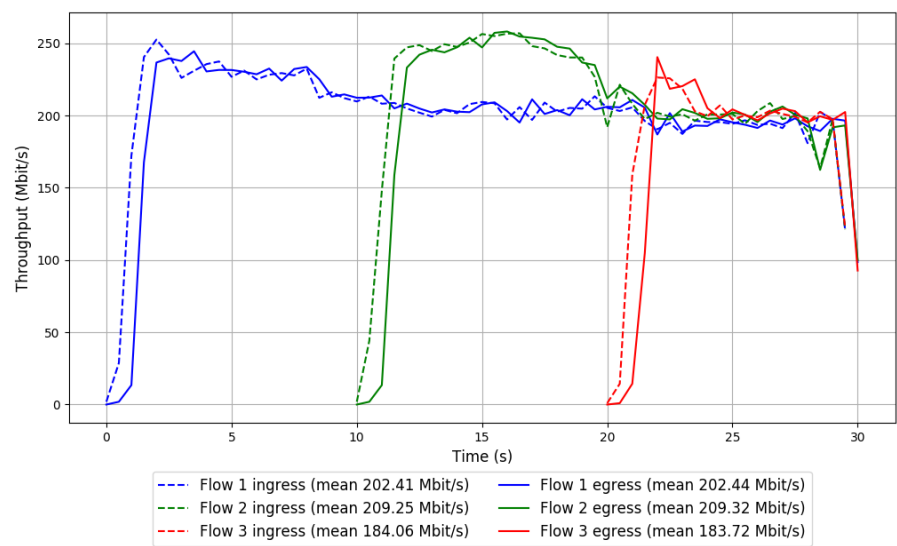


Run 9: Statistics of Indigo

Start at: 2018-06-06 20:49:52
End at: 2018-06-06 20:50:22
Local clock offset: 0.076 ms
Remote clock offset: -0.223 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 400.55 Mbit/s
95th percentile per-packet one-way delay: 69.462 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 202.44 Mbit/s
95th percentile per-packet one-way delay: 68.090 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 209.32 Mbit/s
95th percentile per-packet one-way delay: 69.816 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 183.72 Mbit/s
95th percentile per-packet one-way delay: 71.635 ms
Loss rate: 1.50%

Run 9: Report of Indigo — Data Link

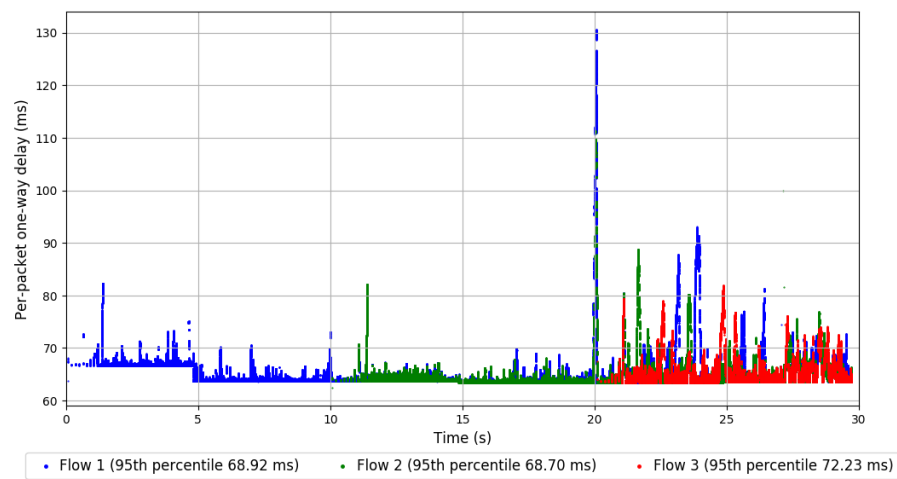
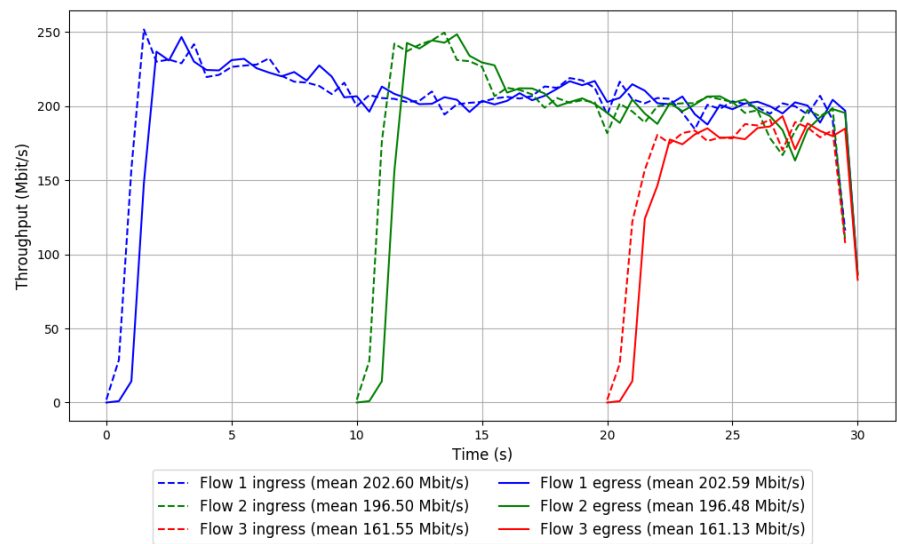


Run 10: Statistics of Indigo

Start at: 2018-06-06 21:12:36
End at: 2018-06-06 21:13:06
Local clock offset: 0.11 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 384.89 Mbit/s
95th percentile per-packet one-way delay: 69.601 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 202.59 Mbit/s
95th percentile per-packet one-way delay: 68.922 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 196.48 Mbit/s
95th percentile per-packet one-way delay: 68.703 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 161.13 Mbit/s
95th percentile per-packet one-way delay: 72.227 ms
Loss rate: 1.57%

Run 10: Report of Indigo — Data Link

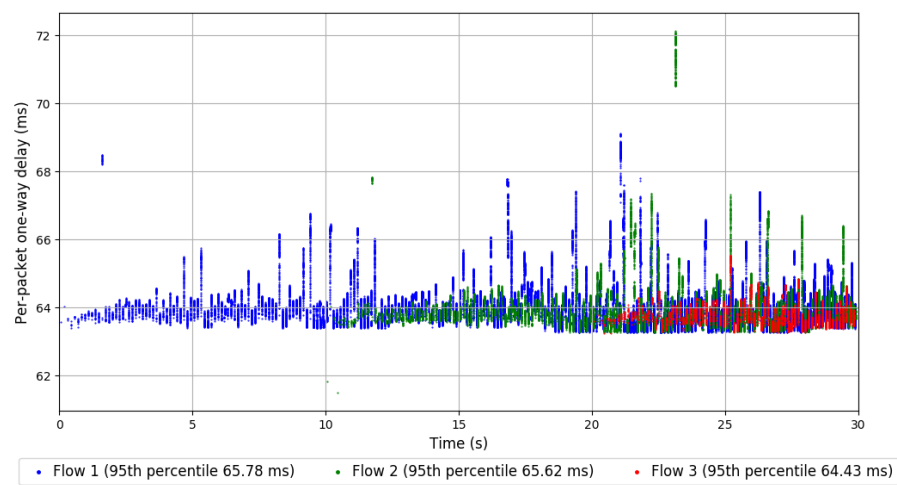
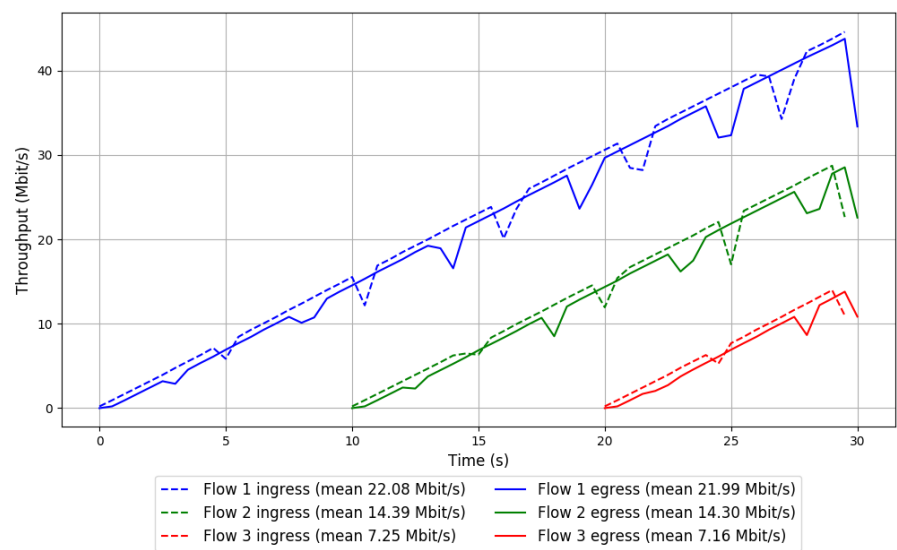


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 17:48:12
End at: 2018-06-06 17:48:42
Local clock offset: -0.046 ms
Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-06-06 22:57:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 65.668 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 21.99 Mbit/s
95th percentile per-packet one-way delay: 65.775 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 65.619 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 64.430 ms
Loss rate: 2.60%
```

Run 1: Report of LEDBAT — Data Link

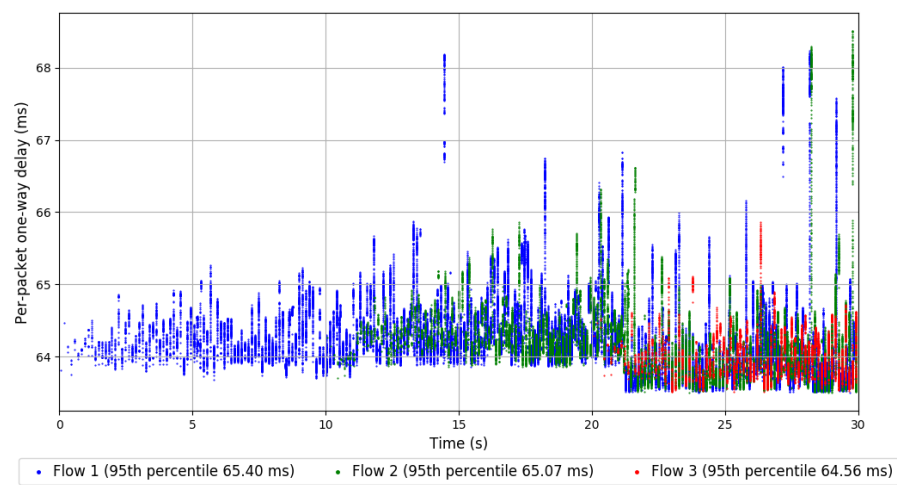
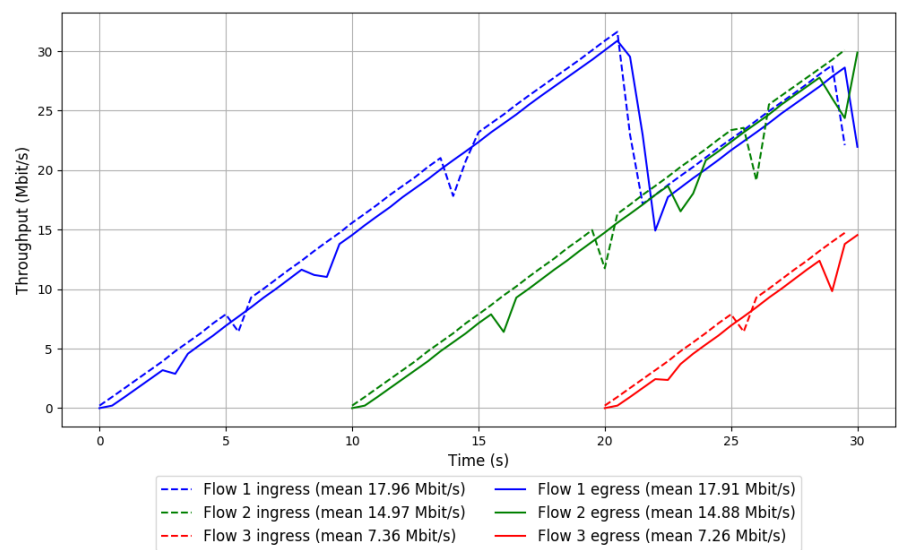


Run 2: Statistics of LEDBAT

Start at: 2018-06-06 18:11:39
End at: 2018-06-06 18:12:09
Local clock offset: -0.03 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 30.14 Mbit/s
95th percentile per-packet one-way delay: 65.264 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 17.91 Mbit/s
95th percentile per-packet one-way delay: 65.404 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 14.88 Mbit/s
95th percentile per-packet one-way delay: 65.068 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 64.558 ms
Loss rate: 2.56%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-06 18:34:51

End at: 2018-06-06 18:35:21

Local clock offset: -0.017 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-06 22:57:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.81 Mbit/s

95th percentile per-packet one-way delay: 65.533 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 22.01 Mbit/s

95th percentile per-packet one-way delay: 65.888 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 14.30 Mbit/s

95th percentile per-packet one-way delay: 65.098 ms

Loss rate: 1.29%

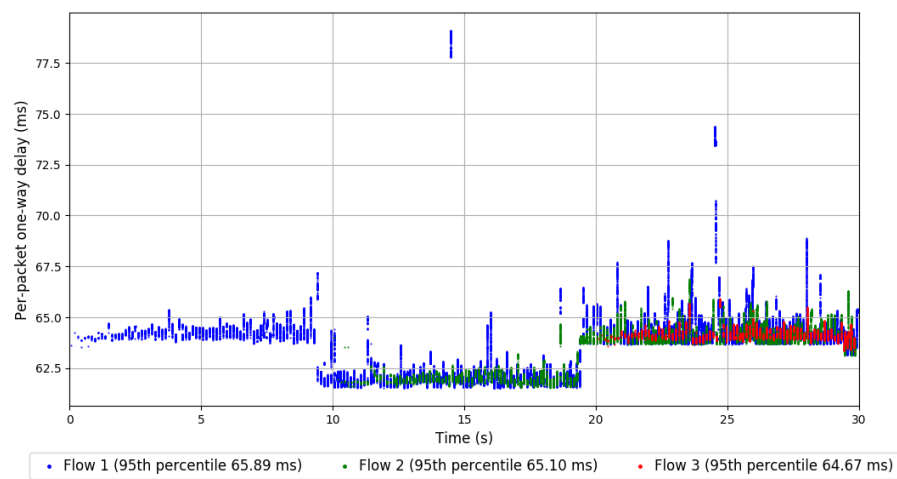
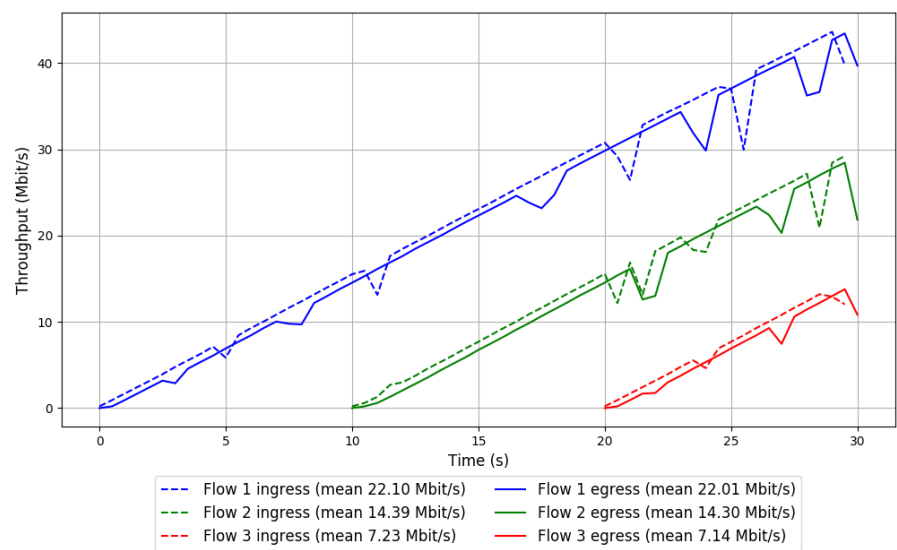
-- Flow 3:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 64.668 ms

Loss rate: 2.60%

Run 3: Report of LEDBAT — Data Link

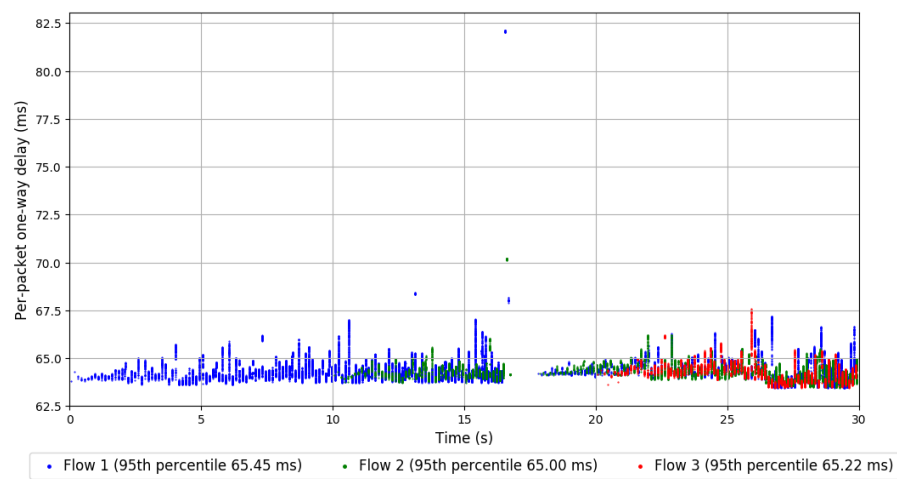
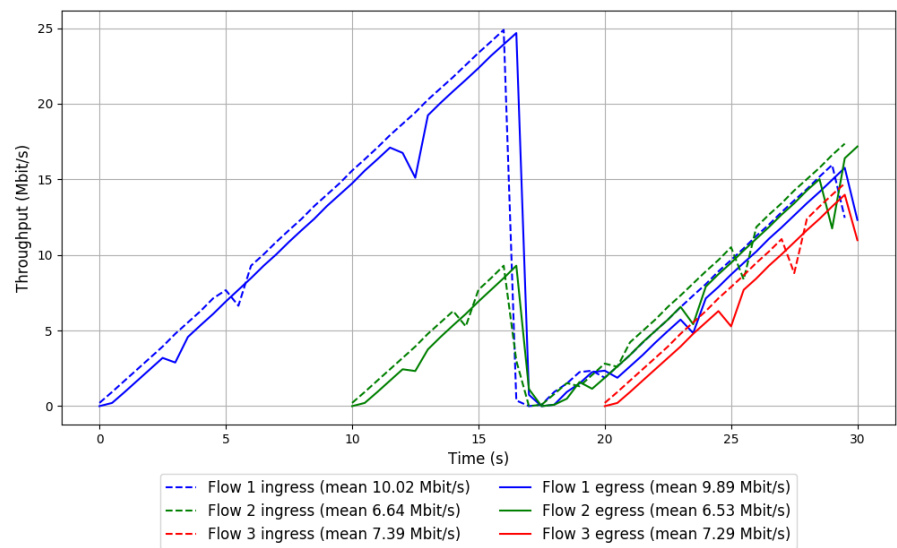


Run 4: Statistics of LEDBAT

Start at: 2018-06-06 18:58:14
End at: 2018-06-06 18:58:44
Local clock offset: -0.013 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.59 Mbit/s
95th percentile per-packet one-way delay: 65.302 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 9.89 Mbit/s
95th percentile per-packet one-way delay: 65.453 ms
Loss rate: 1.69%
-- Flow 2:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 64.995 ms
Loss rate: 2.37%
-- Flow 3:
Average throughput: 7.29 Mbit/s
95th percentile per-packet one-way delay: 65.220 ms
Loss rate: 2.56%

Run 4: Report of LEDBAT — Data Link

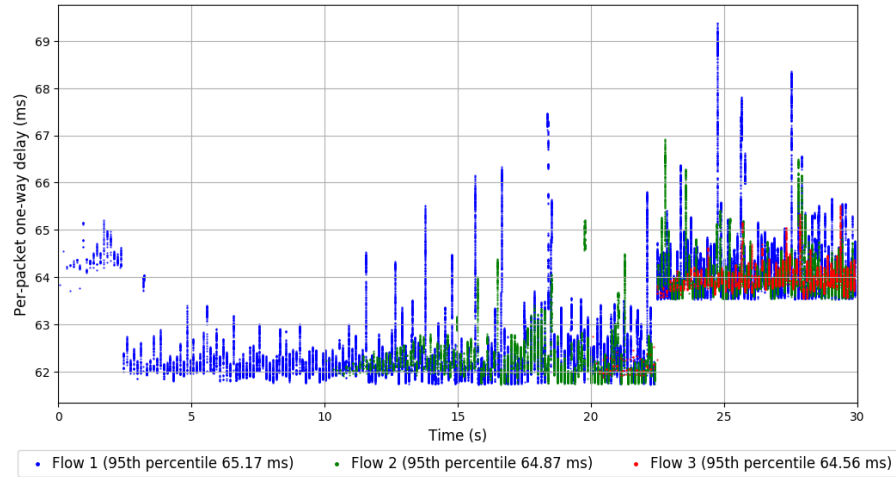
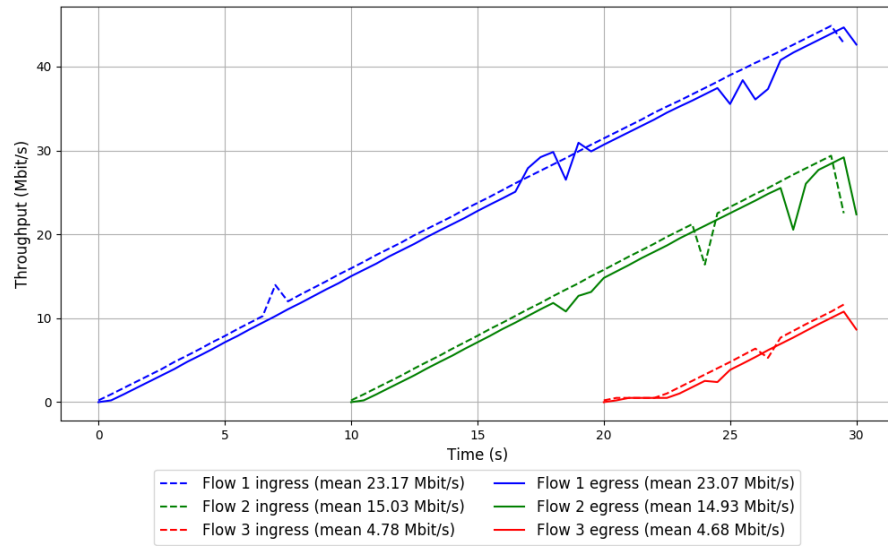


Run 5: Statistics of LEDBAT

Start at: 2018-06-06 19:21:28
End at: 2018-06-06 19:21:58
Local clock offset: -0.07 ms
Remote clock offset: -0.317 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.49 Mbit/s
95th percentile per-packet one-way delay: 65.031 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: 65.170 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 14.93 Mbit/s
95th percentile per-packet one-way delay: 64.866 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 64.555 ms
Loss rate: 3.14%

Run 5: Report of LEDBAT — Data Link

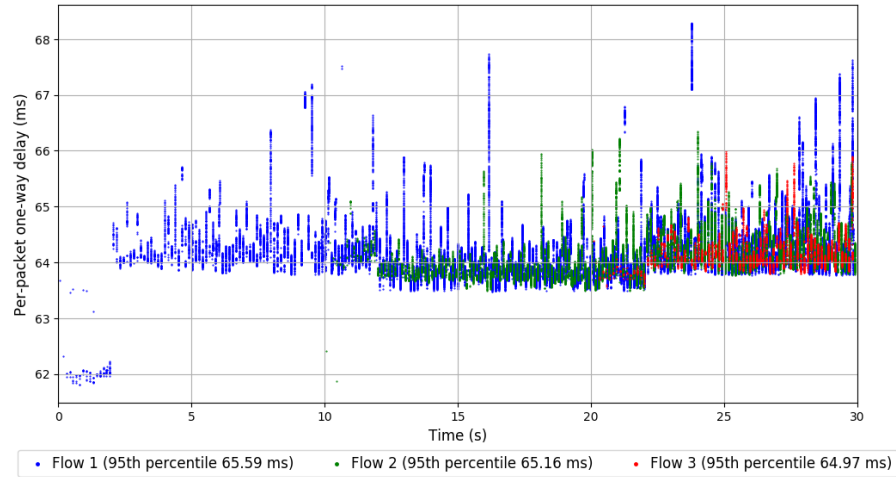
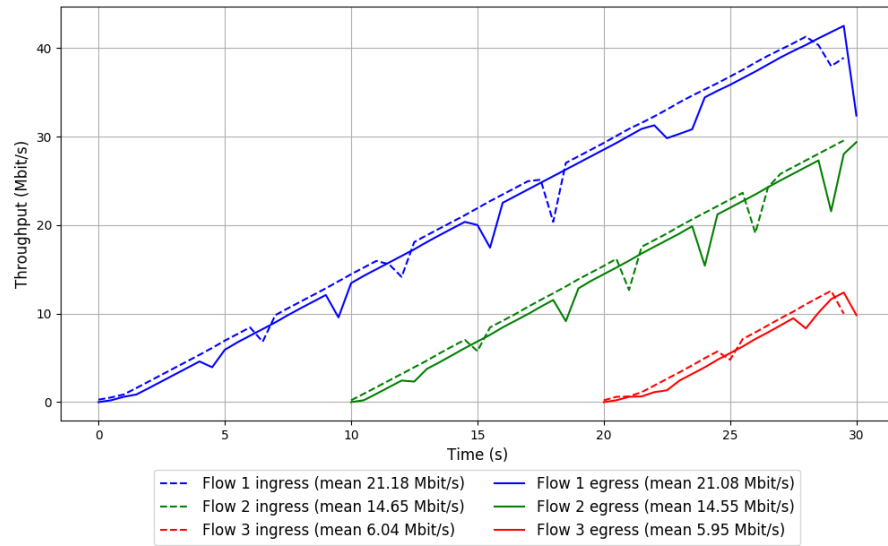


Run 6: Statistics of LEDBAT

Start at: 2018-06-06 19:44:49
End at: 2018-06-06 19:45:19
Local clock offset: -0.043 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-06-06 22:57:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 65.374 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 65.595 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 14.55 Mbit/s
95th percentile per-packet one-way delay: 65.161 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 64.965 ms
Loss rate: 2.84%

Run 6: Report of LEDBAT — Data Link

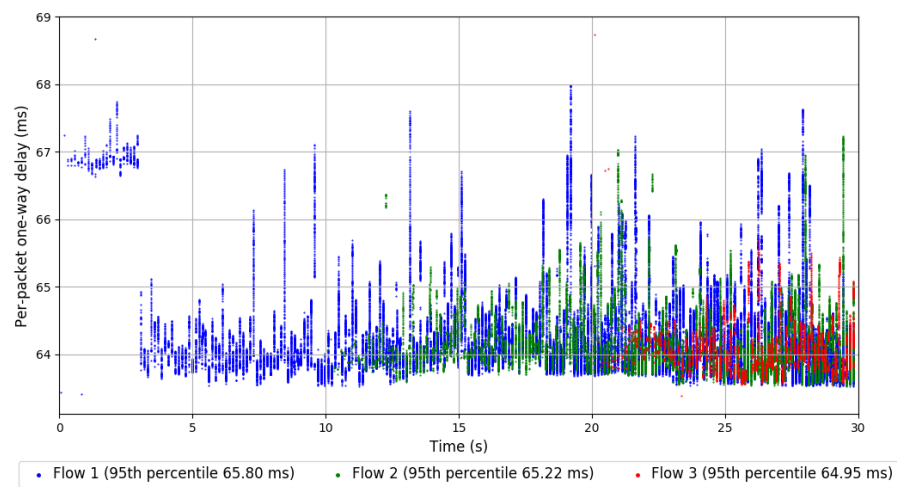
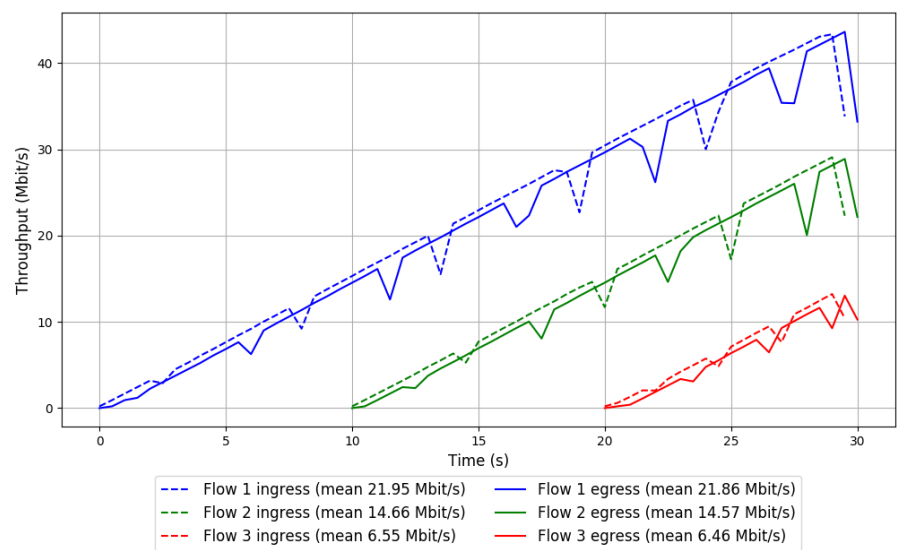


Run 7: Statistics of LEDBAT

Start at: 2018-06-06 20:08:08
End at: 2018-06-06 20:08:38
Local clock offset: 0.002 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 33.62 Mbit/s
95th percentile per-packet one-way delay: 65.560 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 21.86 Mbit/s
95th percentile per-packet one-way delay: 65.802 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 65.224 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 64.948 ms
Loss rate: 2.73%

Run 7: Report of LEDBAT — Data Link

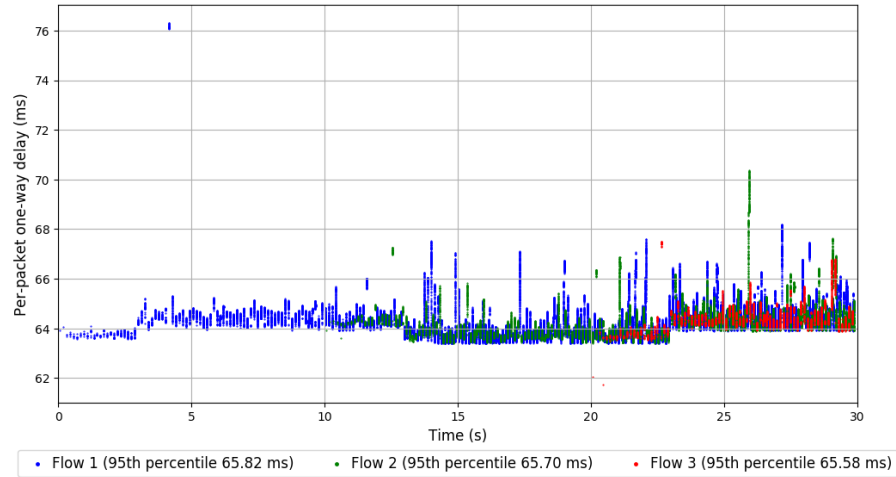
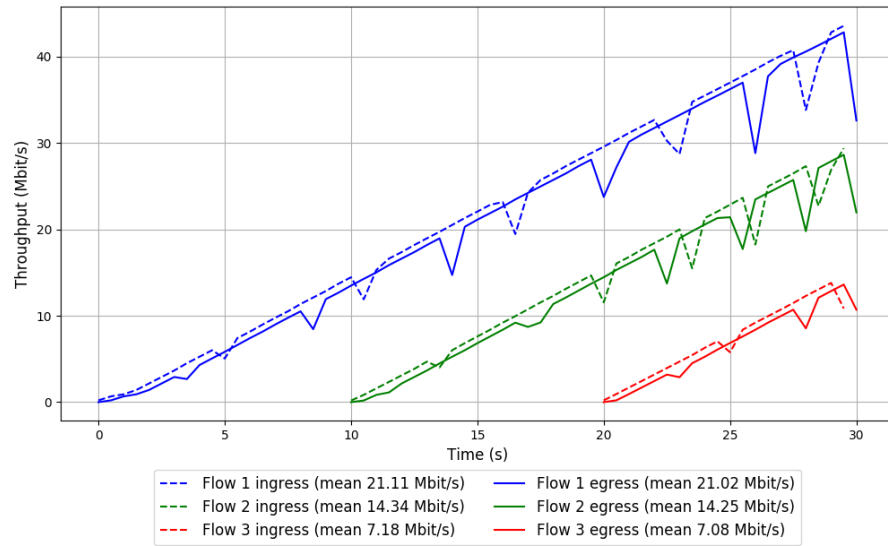


Run 8: Statistics of LEDBAT

Start at: 2018-06-06 20:31:08
End at: 2018-06-06 20:31:38
Local clock offset: 0.079 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.78 Mbit/s
95th percentile per-packet one-way delay: 65.789 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 21.02 Mbit/s
95th percentile per-packet one-way delay: 65.823 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 14.25 Mbit/s
95th percentile per-packet one-way delay: 65.698 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 65.584 ms
Loss rate: 2.59%

Run 8: Report of LEDBAT — Data Link

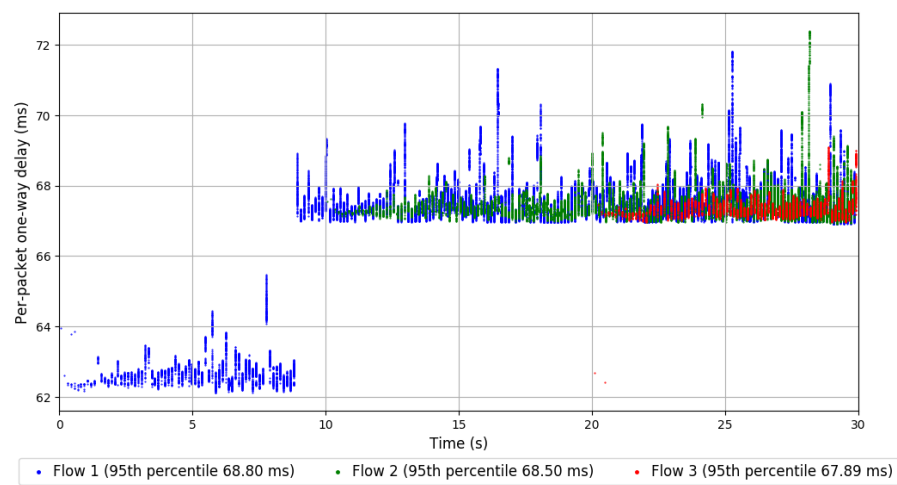
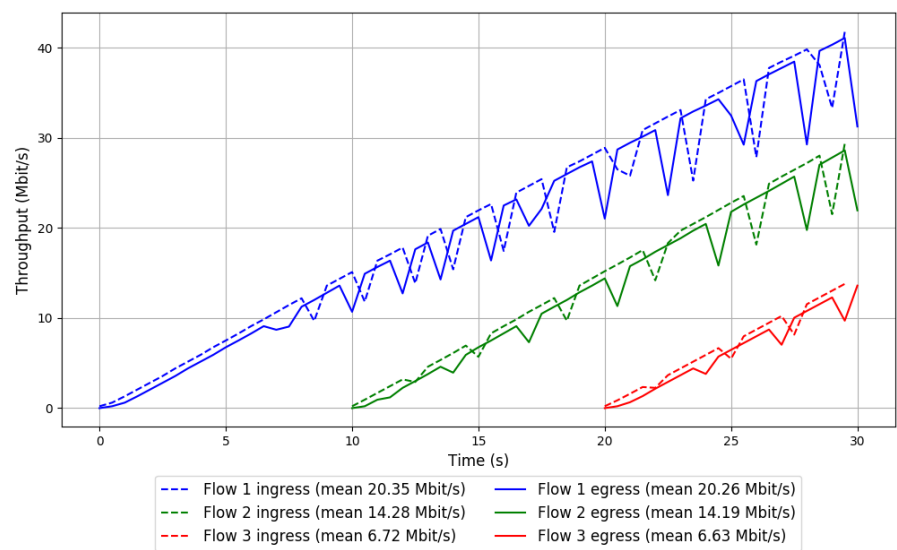


Run 9: Statistics of LEDBAT

Start at: 2018-06-06 20:54:32
End at: 2018-06-06 20:55:02
Local clock offset: 0.062 ms
Remote clock offset: -0.376 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.80 Mbit/s
95th percentile per-packet one-way delay: 68.674 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 68.799 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 14.19 Mbit/s
95th percentile per-packet one-way delay: 68.504 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 67.890 ms
Loss rate: 2.63%

Run 9: Report of LEDBAT — Data Link

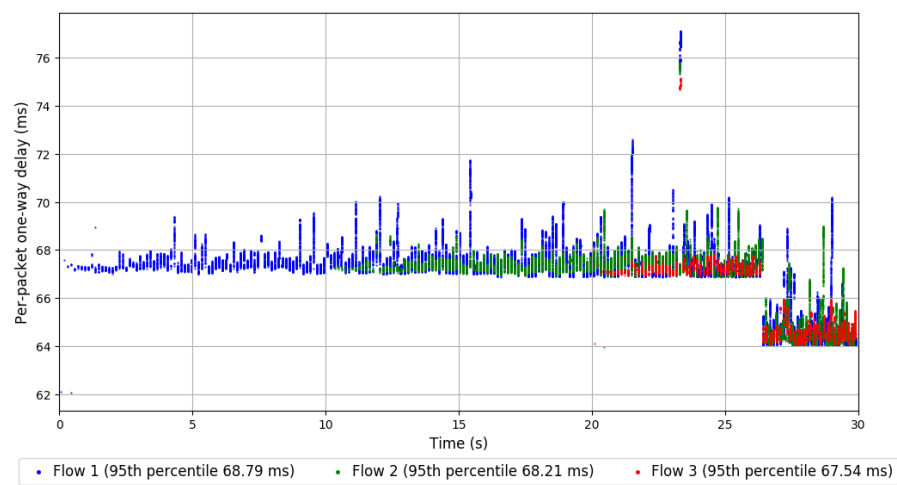
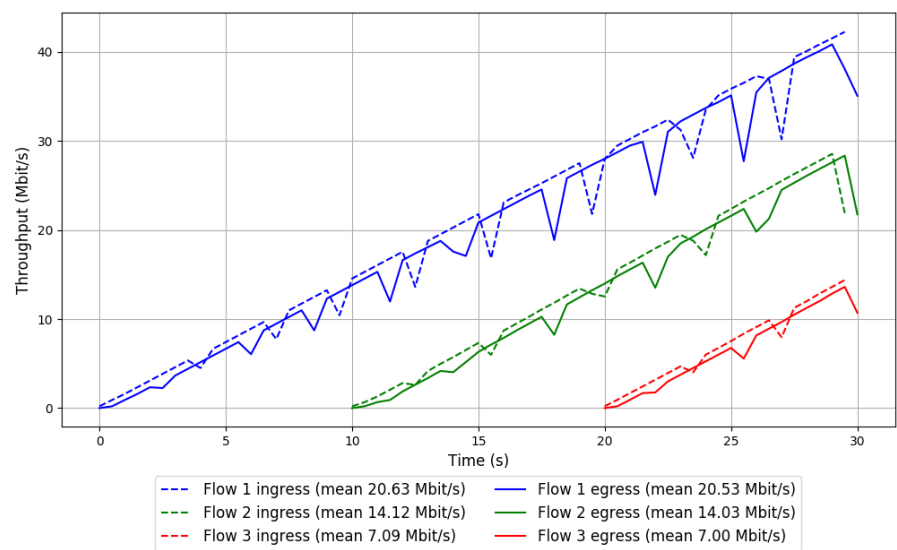


Run 10: Statistics of LEDBAT

Start at: 2018-06-06 21:17:14
End at: 2018-06-06 21:17:44
Local clock offset: 0.116 ms
Remote clock offset: -0.415 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 32.11 Mbit/s
95th percentile per-packet one-way delay: 68.581 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 20.53 Mbit/s
95th percentile per-packet one-way delay: 68.789 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 14.03 Mbit/s
95th percentile per-packet one-way delay: 68.210 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 67.543 ms
Loss rate: 2.62%

Run 10: Report of LEDBAT — Data Link

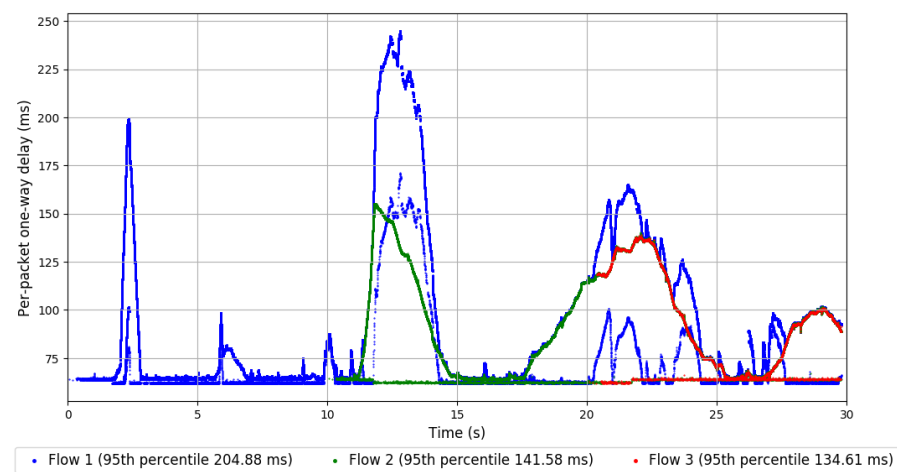
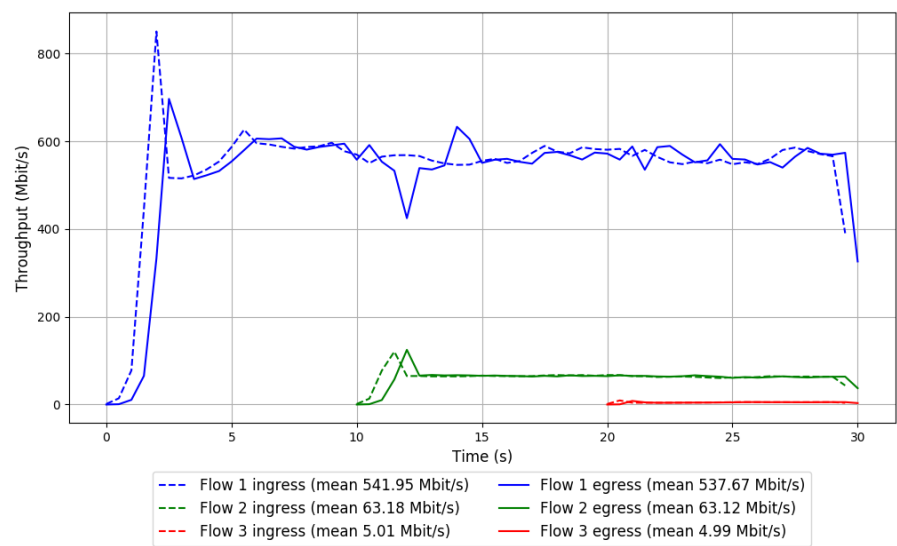


Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 17:41:59
End at: 2018-06-06 17:42:29
Local clock offset: -0.054 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 581.12 Mbit/s
95th percentile per-packet one-way delay: 200.786 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 537.67 Mbit/s
95th percentile per-packet one-way delay: 204.885 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 63.12 Mbit/s
95th percentile per-packet one-way delay: 141.580 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 134.612 ms
Loss rate: 1.68%

Run 1: Report of PCC-Allegro — Data Link

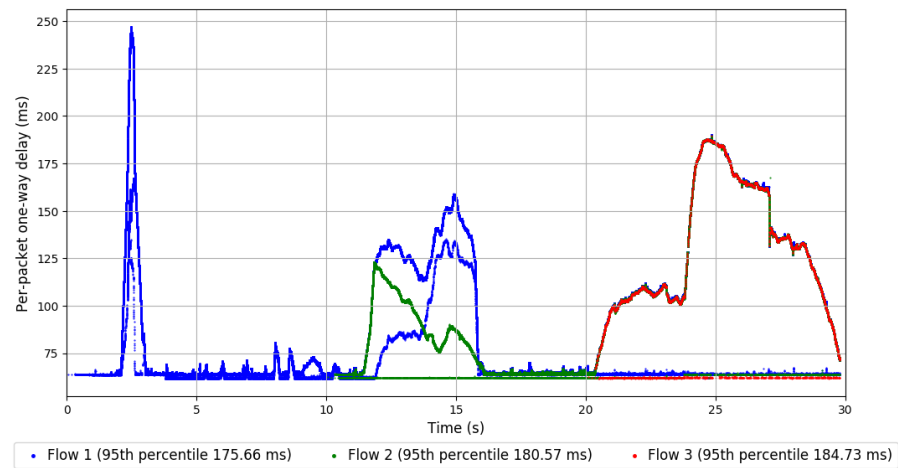
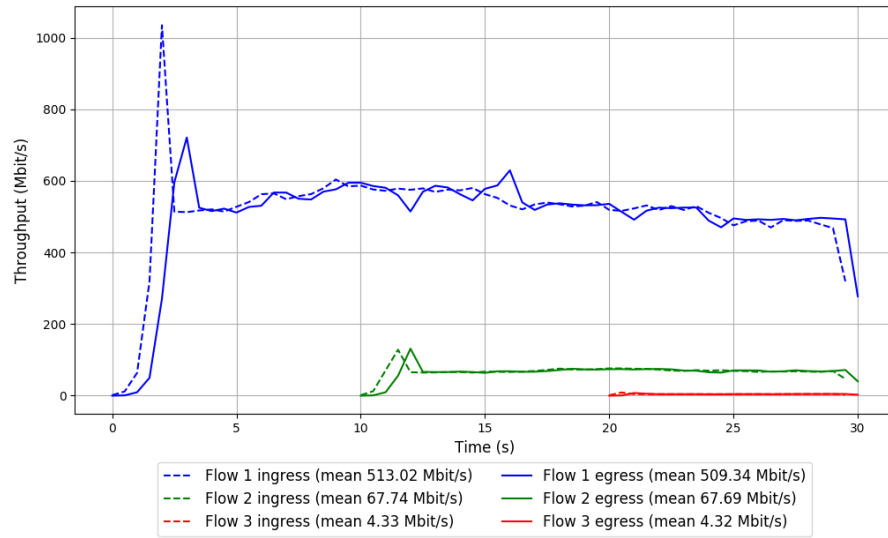


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 18:05:17
End at: 2018-06-06 18:05:47
Local clock offset: -0.043 ms
Remote clock offset: -0.183 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 555.67 Mbit/s
95th percentile per-packet one-way delay: 176.270 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 509.34 Mbit/s
95th percentile per-packet one-way delay: 175.665 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 67.69 Mbit/s
95th percentile per-packet one-way delay: 180.575 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 184.726 ms
Loss rate: 1.44%

Run 2: Report of PCC-Allegro — Data Link

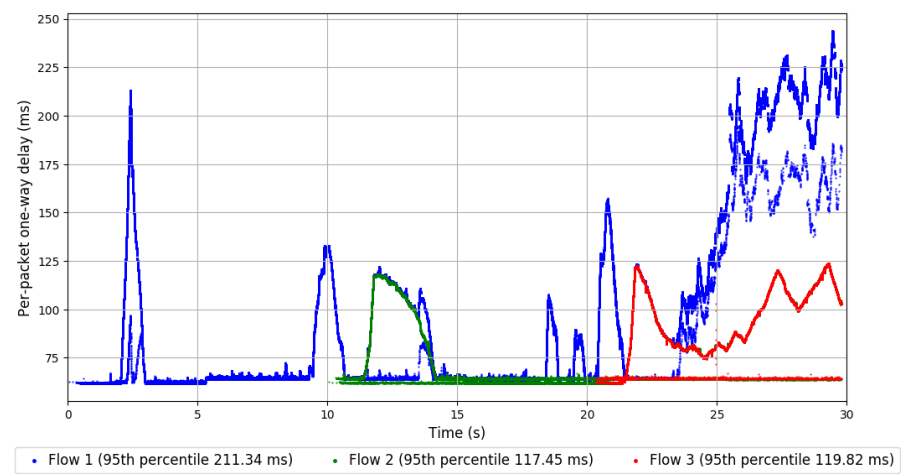
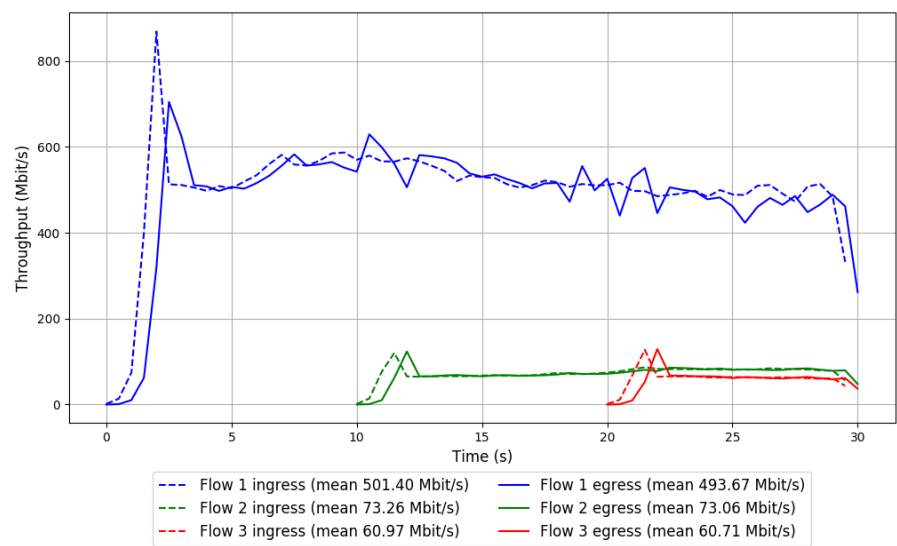


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 18:28:45
End at: 2018-06-06 18:29:15
Local clock offset: -0.014 ms
Remote clock offset: -0.381 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 561.95 Mbit/s
95th percentile per-packet one-way delay: 209.312 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 493.67 Mbit/s
95th percentile per-packet one-way delay: 211.337 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 73.06 Mbit/s
95th percentile per-packet one-way delay: 117.455 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 60.71 Mbit/s
95th percentile per-packet one-way delay: 119.822 ms
Loss rate: 1.72%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 18:51:58

End at: 2018-06-06 18:52:28

Local clock offset: 0.005 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-06 22:57:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 571.48 Mbit/s

95th percentile per-packet one-way delay: 177.529 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 515.93 Mbit/s

95th percentile per-packet one-way delay: 179.477 ms

Loss rate: 2.02%

-- Flow 2:

Average throughput: 67.28 Mbit/s

95th percentile per-packet one-way delay: 120.168 ms

Loss rate: 0.81%

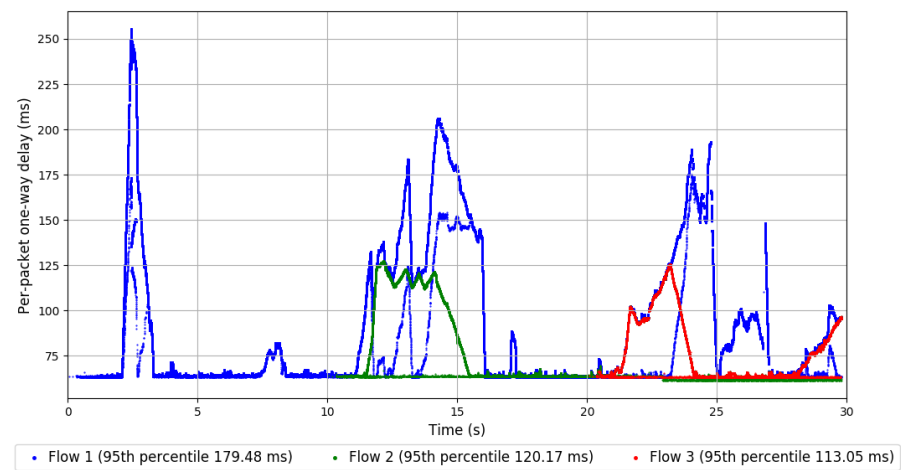
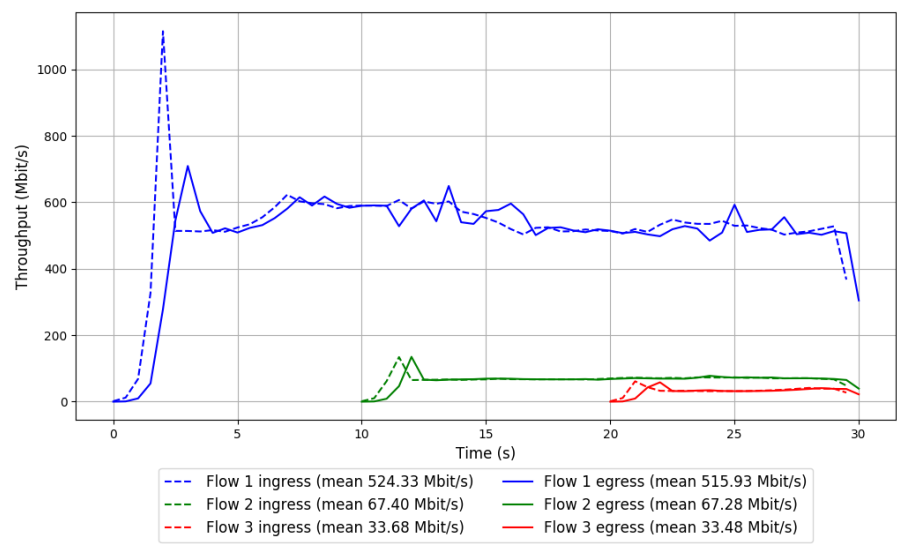
-- Flow 3:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 113.051 ms

Loss rate: 1.87%

Run 4: Report of PCC-Allegro — Data Link

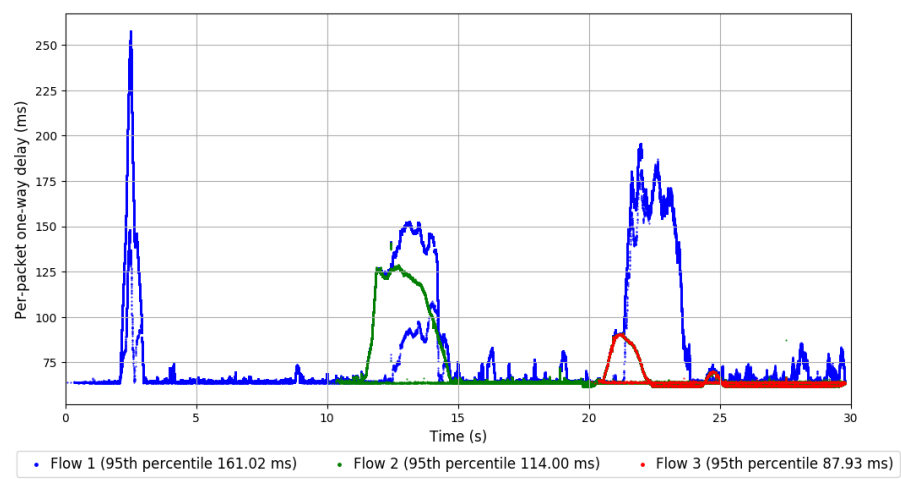
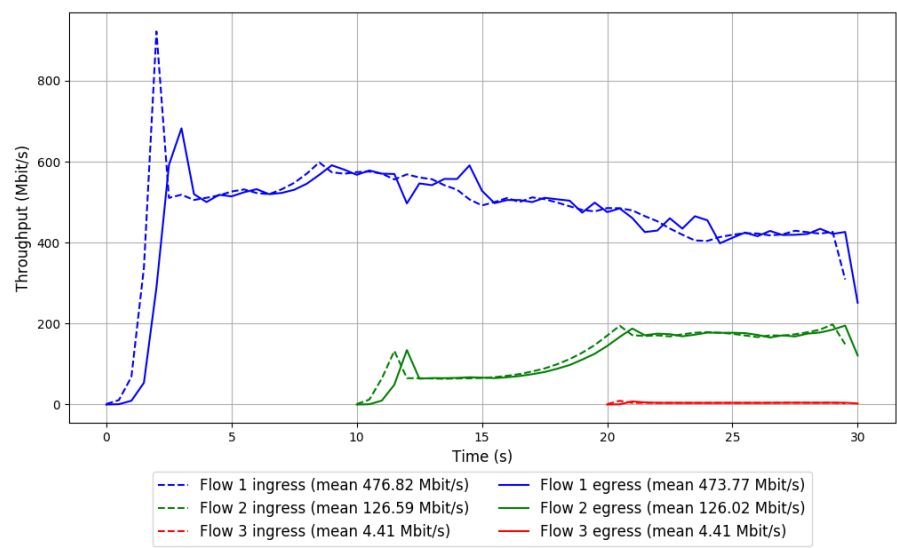


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 19:15:11
End at: 2018-06-06 19:15:41
Local clock offset: -0.028 ms
Remote clock offset: -0.329 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 558.81 Mbit/s
95th percentile per-packet one-way delay: 157.620 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 473.77 Mbit/s
95th percentile per-packet one-way delay: 161.017 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 126.02 Mbit/s
95th percentile per-packet one-way delay: 113.997 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 87.928 ms
Loss rate: 1.30%

Run 5: Report of PCC-Allegro — Data Link

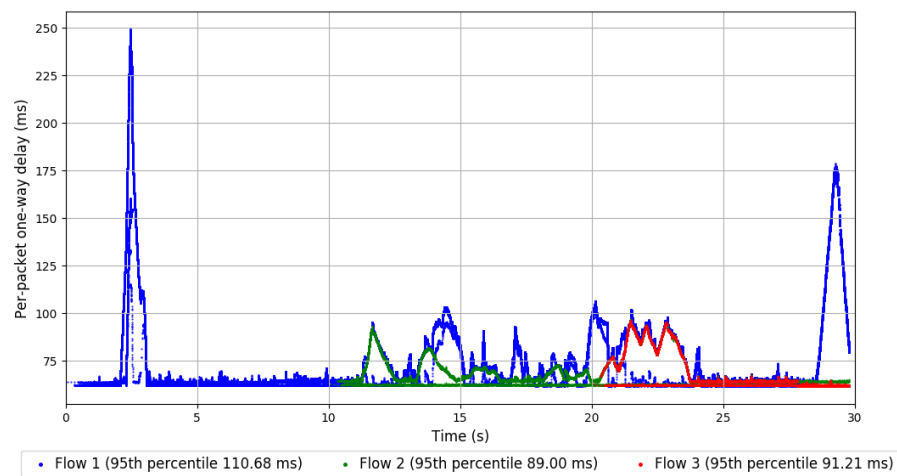
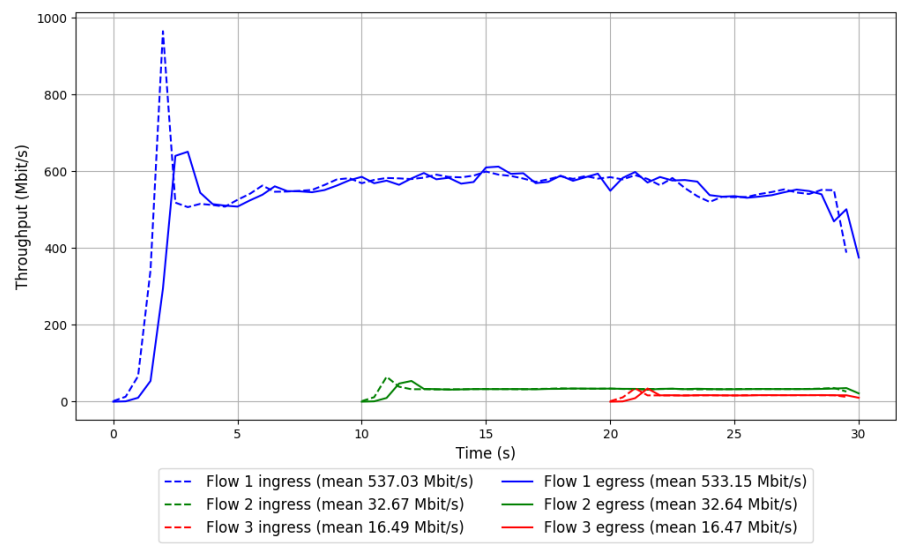


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 19:38:33
End at: 2018-06-06 19:39:03
Local clock offset: -0.046 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-06-06 22:57:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 560.17 Mbit/s
95th percentile per-packet one-way delay: 109.021 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 533.15 Mbit/s
95th percentile per-packet one-way delay: 110.677 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 32.64 Mbit/s
95th percentile per-packet one-way delay: 89.005 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 16.47 Mbit/s
95th percentile per-packet one-way delay: 91.206 ms
Loss rate: 1.35%

Run 6: Report of PCC-Allegro — Data Link

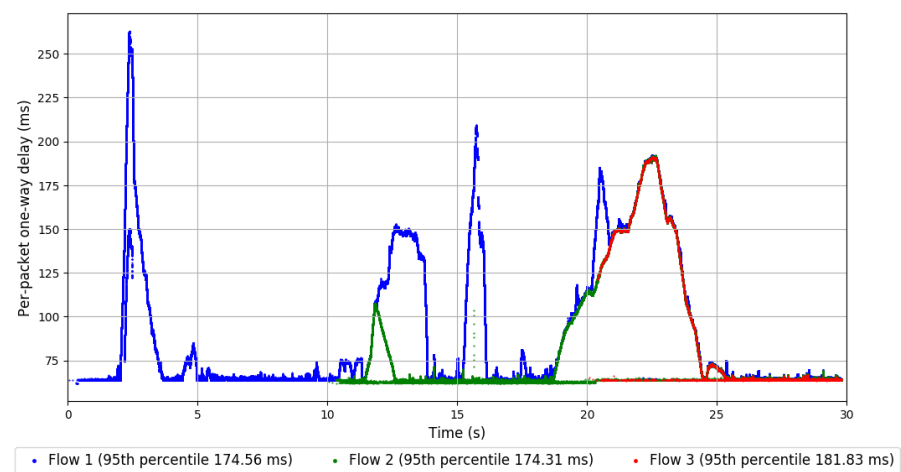
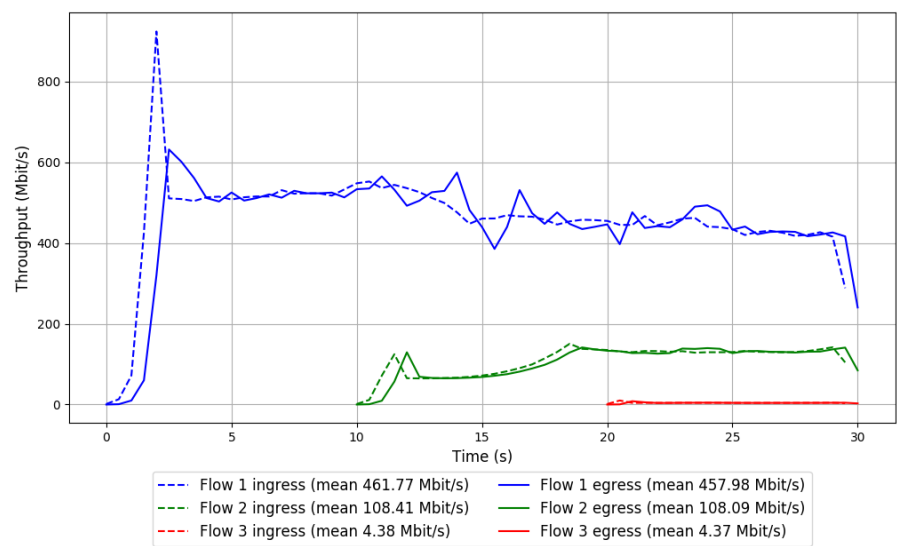


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 20:01:50
End at: 2018-06-06 20:02:20
Local clock offset: 0.003 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2018-06-06 23:04:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 531.11 Mbit/s
95th percentile per-packet one-way delay: 174.559 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 457.98 Mbit/s
95th percentile per-packet one-way delay: 174.556 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 108.09 Mbit/s
95th percentile per-packet one-way delay: 174.315 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 181.831 ms
Loss rate: 1.49%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 20:24:51

End at: 2018-06-06 20:25:22

Local clock offset: 0.019 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-06 23:06:05

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.00 Mbit/s

95th percentile per-packet one-way delay: 251.763 ms

Loss rate: 3.29%

-- Flow 1:

Average throughput: 498.39 Mbit/s

95th percentile per-packet one-way delay: 254.074 ms

Loss rate: 3.44%

-- Flow 2:

Average throughput: 67.97 Mbit/s

95th percentile per-packet one-way delay: 173.944 ms

Loss rate: 1.59%

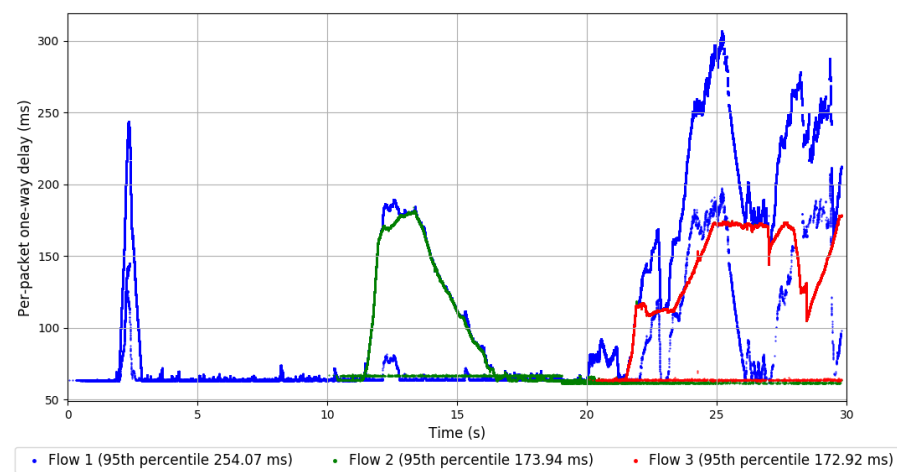
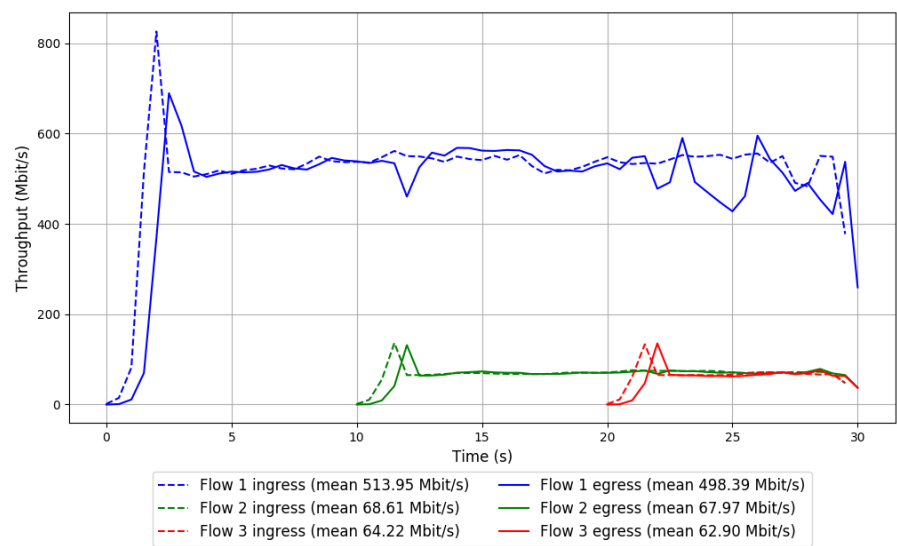
-- Flow 3:

Average throughput: 62.90 Mbit/s

95th percentile per-packet one-way delay: 172.922 ms

Loss rate: 3.33%

Run 8: Report of PCC-Allegro — Data Link

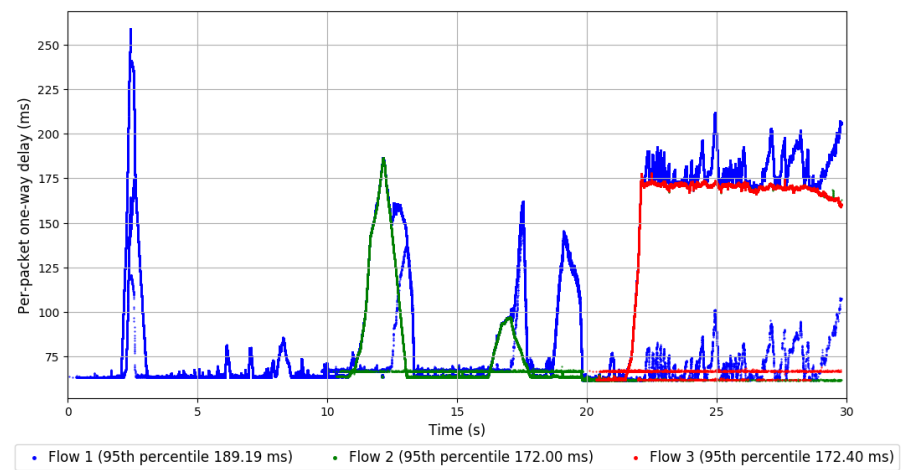
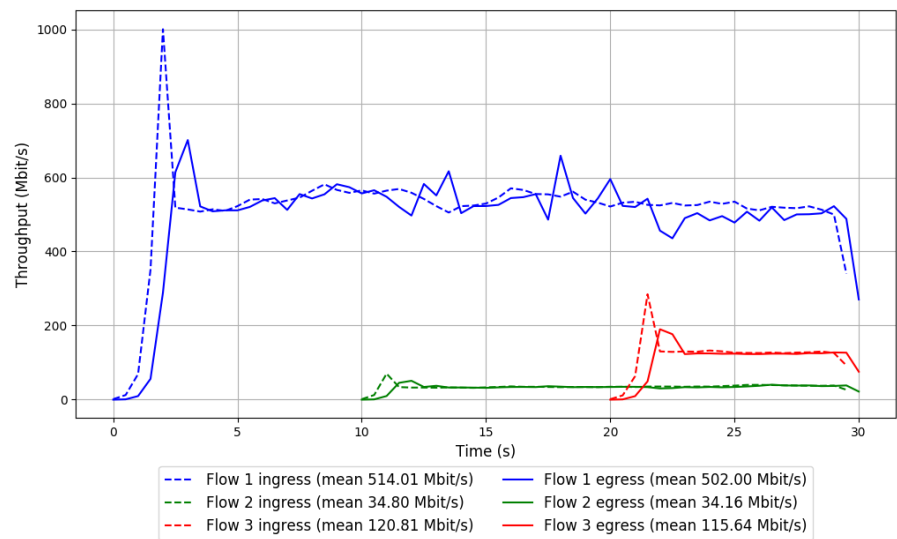


Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 20:48:21
End at: 2018-06-06 20:48:51
Local clock offset: 0.083 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-06 23:06:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 562.38 Mbit/s
95th percentile per-packet one-way delay: 188.118 ms
Loss rate: 2.95%
-- Flow 1:
Average throughput: 502.00 Mbit/s
95th percentile per-packet one-way delay: 189.189 ms
Loss rate: 2.77%
-- Flow 2:
Average throughput: 34.16 Mbit/s
95th percentile per-packet one-way delay: 172.001 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 115.64 Mbit/s
95th percentile per-packet one-way delay: 172.399 ms
Loss rate: 5.59%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 21:11:05

End at: 2018-06-06 21:11:35

Local clock offset: 0.026 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-06-06 23:06:18

Datalink statistics

-- Total of 3 flows:

Average throughput: 552.19 Mbit/s

95th percentile per-packet one-way delay: 200.558 ms

Loss rate: 3.12%

-- Flow 1:

Average throughput: 461.63 Mbit/s

95th percentile per-packet one-way delay: 204.499 ms

Loss rate: 3.09%

-- Flow 2:

Average throughput: 106.69 Mbit/s

95th percentile per-packet one-way delay: 189.928 ms

Loss rate: 2.79%

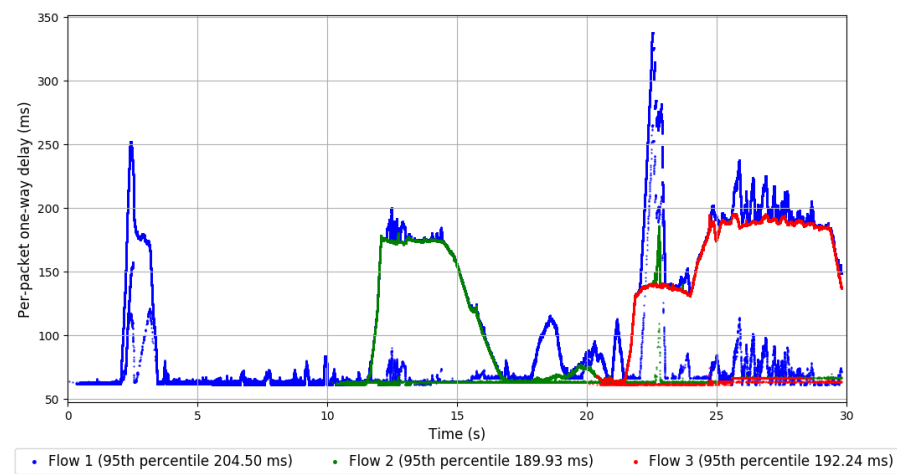
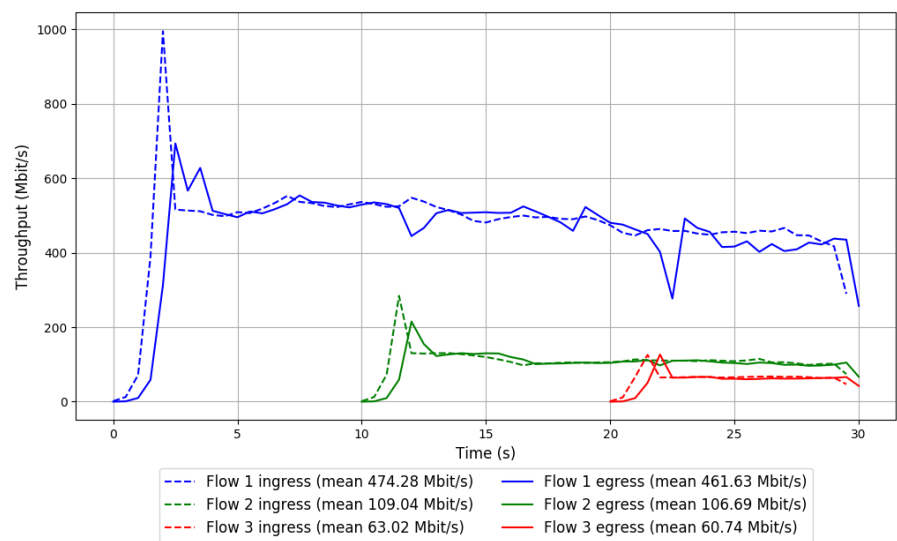
-- Flow 3:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 192.243 ms

Loss rate: 4.88%

Run 10: Report of PCC-Allegro — Data Link

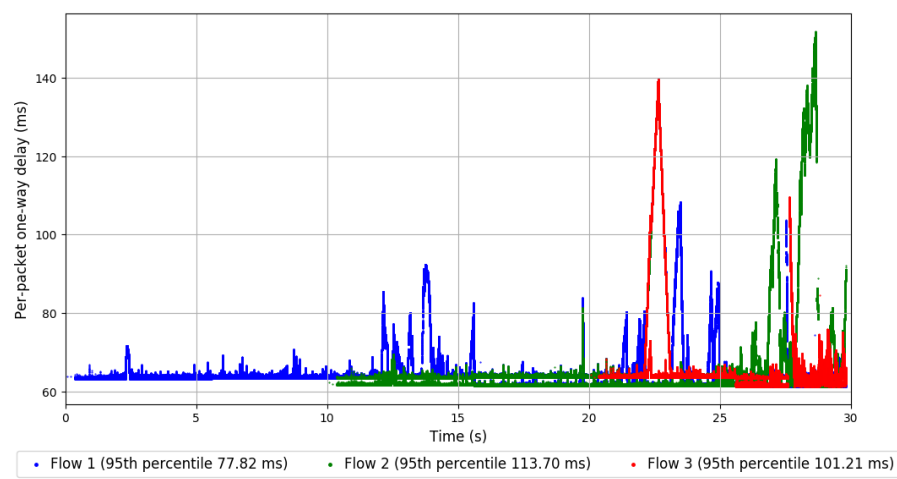
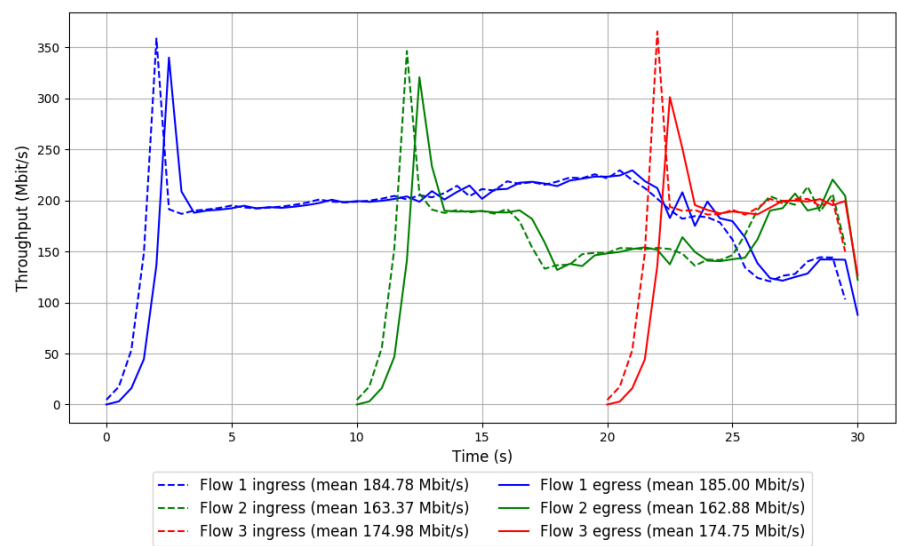


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 17:45:05
End at: 2018-06-06 17:45:35
Local clock offset: -0.054 ms
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2018-06-06 23:09:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 350.31 Mbit/s
95th percentile per-packet one-way delay: 88.705 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 185.00 Mbit/s
95th percentile per-packet one-way delay: 77.824 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 162.88 Mbit/s
95th percentile per-packet one-way delay: 113.701 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 174.75 Mbit/s
95th percentile per-packet one-way delay: 101.211 ms
Loss rate: 1.42%
```

Run 1: Report of PCC-Expr — Data Link

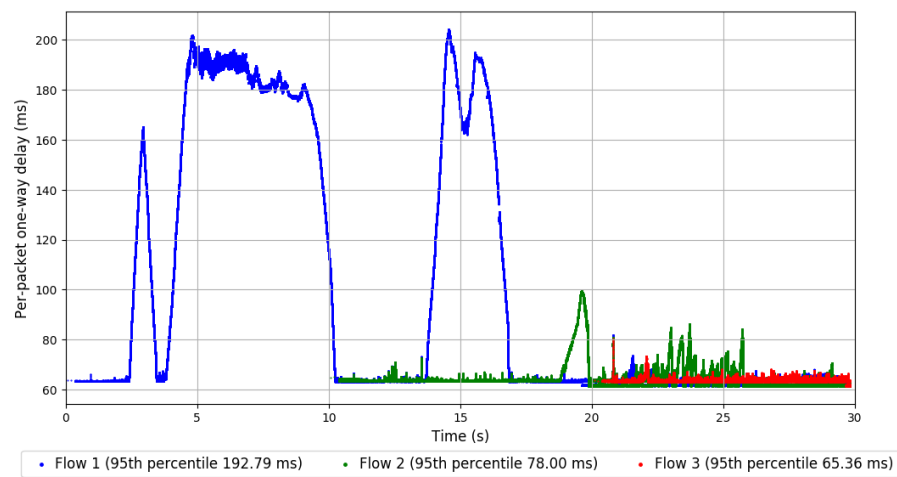
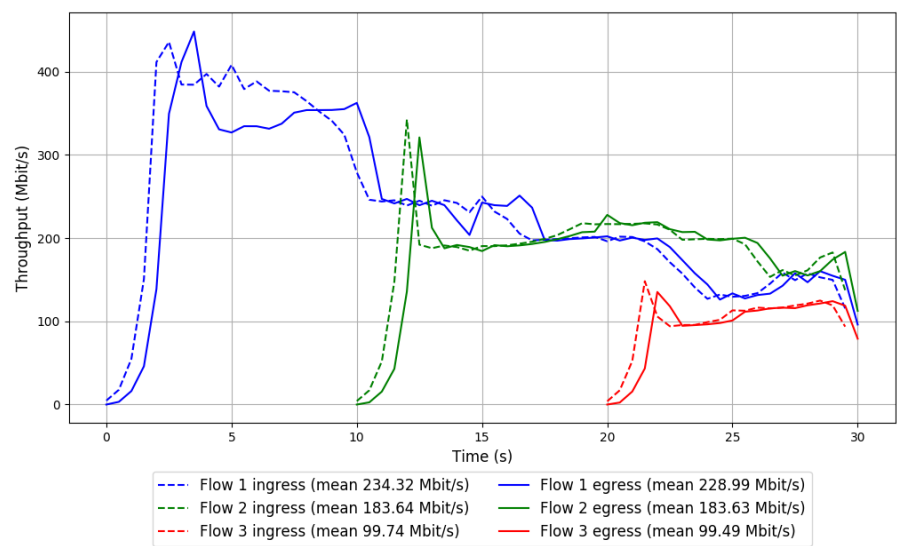


```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 18:08:21
End at: 2018-06-06 18:08:51
Local clock offset: -0.071 ms
Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2018-06-06 23:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 383.34 Mbit/s
95th percentile per-packet one-way delay: 190.974 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 228.99 Mbit/s
95th percentile per-packet one-way delay: 192.793 ms
Loss rate: 2.69%
-- Flow 2:
Average throughput: 183.63 Mbit/s
95th percentile per-packet one-way delay: 77.996 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 99.49 Mbit/s
95th percentile per-packet one-way delay: 65.358 ms
Loss rate: 1.56%
```

Run 2: Report of PCC-Expr — Data Link

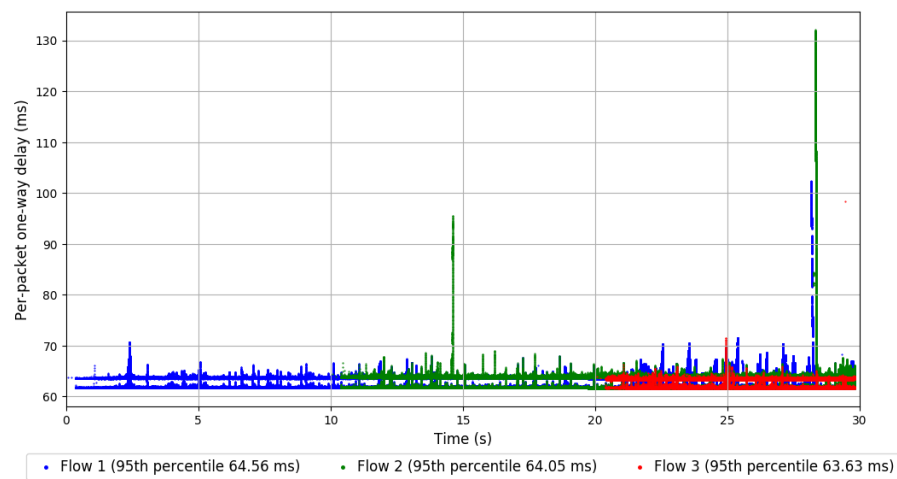
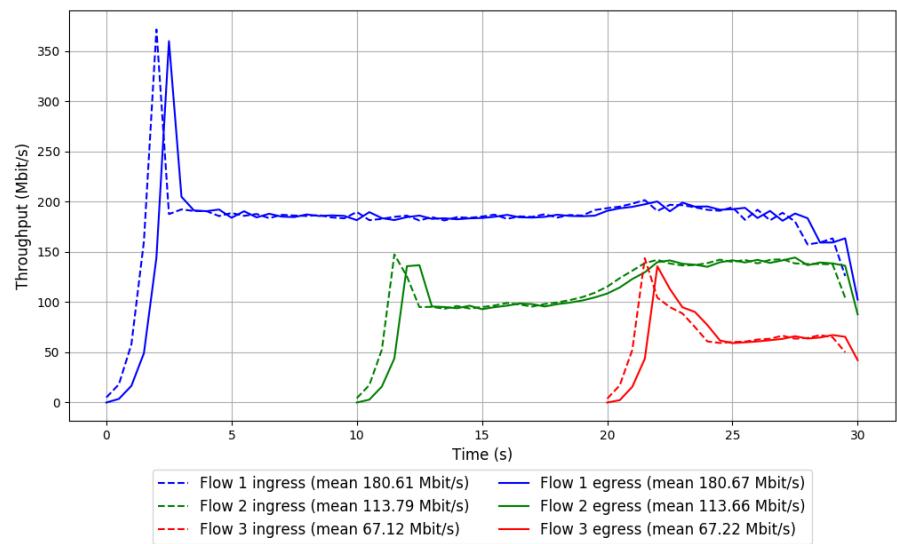


Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 18:31:51
End at: 2018-06-06 18:32:21
Local clock offset: -0.024 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-06 23:10:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 278.10 Mbit/s
95th percentile per-packet one-way delay: 64.187 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 180.67 Mbit/s
95th percentile per-packet one-way delay: 64.559 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 113.66 Mbit/s
95th percentile per-packet one-way delay: 64.050 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 67.22 Mbit/s
95th percentile per-packet one-way delay: 63.627 ms
Loss rate: 1.15%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 18:55:05

End at: 2018-06-06 18:55:35

Local clock offset: -0.039 ms

Remote clock offset: -0.17 ms

Below is generated by plot.py at 2018-06-06 23:10:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 323.69 Mbit/s

95th percentile per-packet one-way delay: 224.432 ms

Loss rate: 2.26%

-- Flow 1:

Average throughput: 219.58 Mbit/s

95th percentile per-packet one-way delay: 246.913 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 125.95 Mbit/s

95th percentile per-packet one-way delay: 72.934 ms

Loss rate: 0.35%

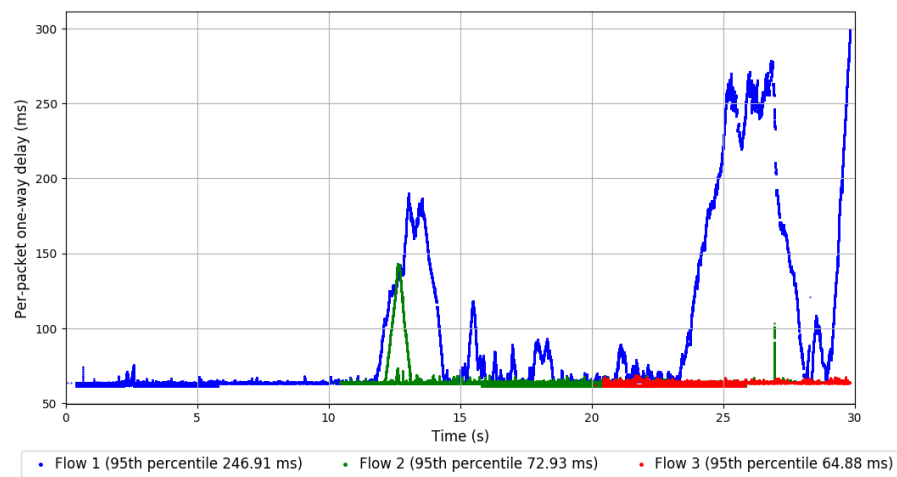
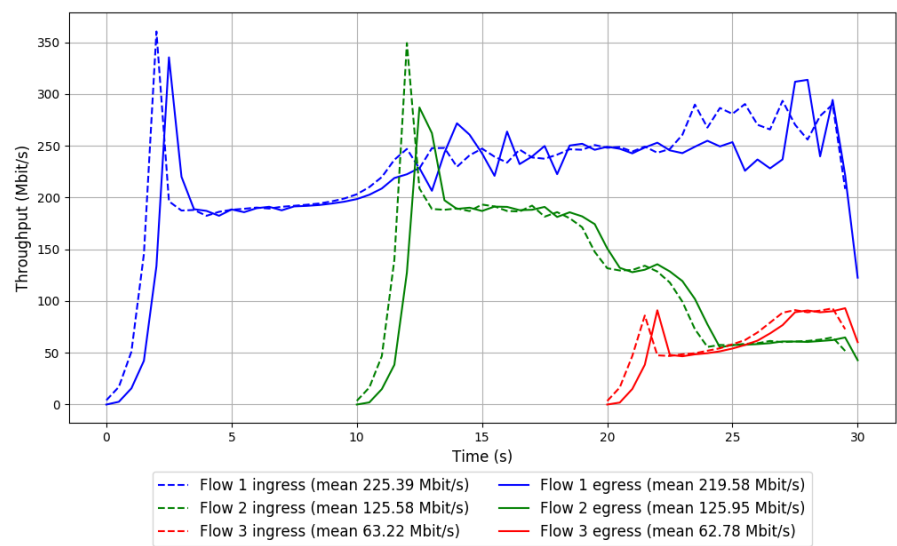
-- Flow 3:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 64.876 ms

Loss rate: 1.96%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 19:18:17

End at: 2018-06-06 19:18:47

Local clock offset: -0.041 ms

Remote clock offset: -0.15 ms

Below is generated by plot.py at 2018-06-06 23:20:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 384.00 Mbit/s

95th percentile per-packet one-way delay: 185.189 ms

Loss rate: 2.83%

-- Flow 1:

Average throughput: 211.73 Mbit/s

95th percentile per-packet one-way delay: 176.566 ms

Loss rate: 1.96%

-- Flow 2:

Average throughput: 232.60 Mbit/s

95th percentile per-packet one-way delay: 189.550 ms

Loss rate: 3.78%

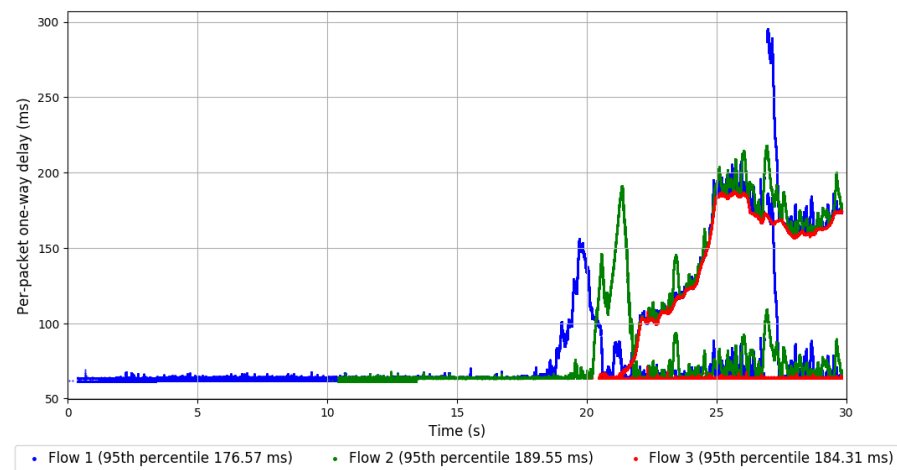
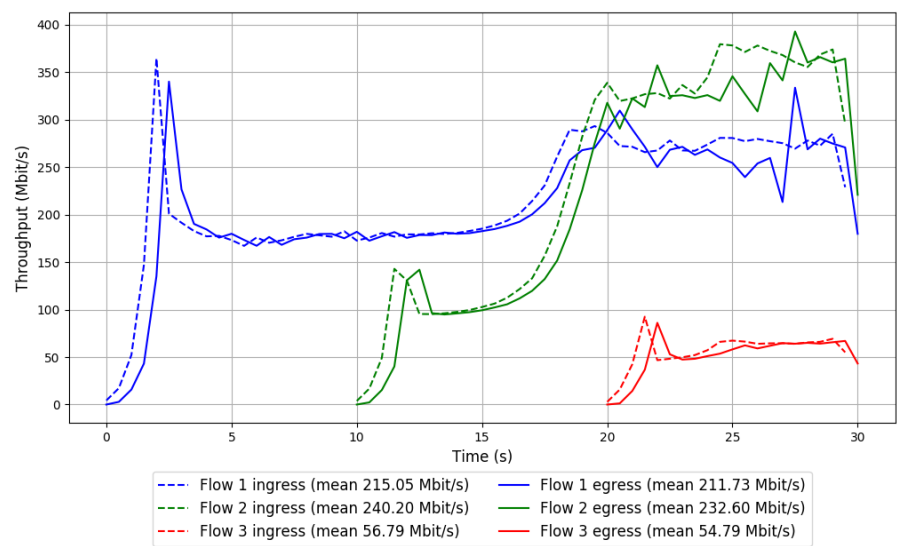
-- Flow 3:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 184.310 ms

Loss rate: 4.77%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 19:41:38

End at: 2018-06-06 19:42:08

Local clock offset: -0.09 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-06-06 23:20:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.42 Mbit/s

95th percentile per-packet one-way delay: 86.570 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 274.54 Mbit/s

95th percentile per-packet one-way delay: 102.804 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 135.77 Mbit/s

95th percentile per-packet one-way delay: 64.401 ms

Loss rate: 1.00%

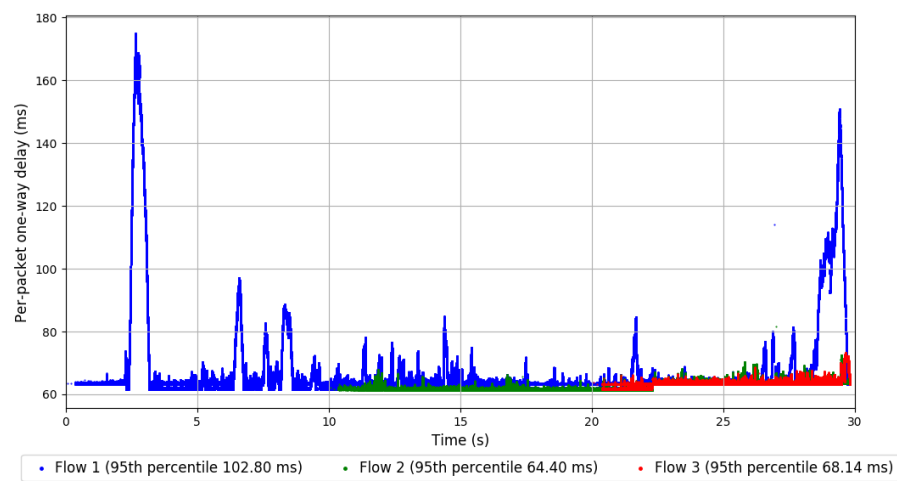
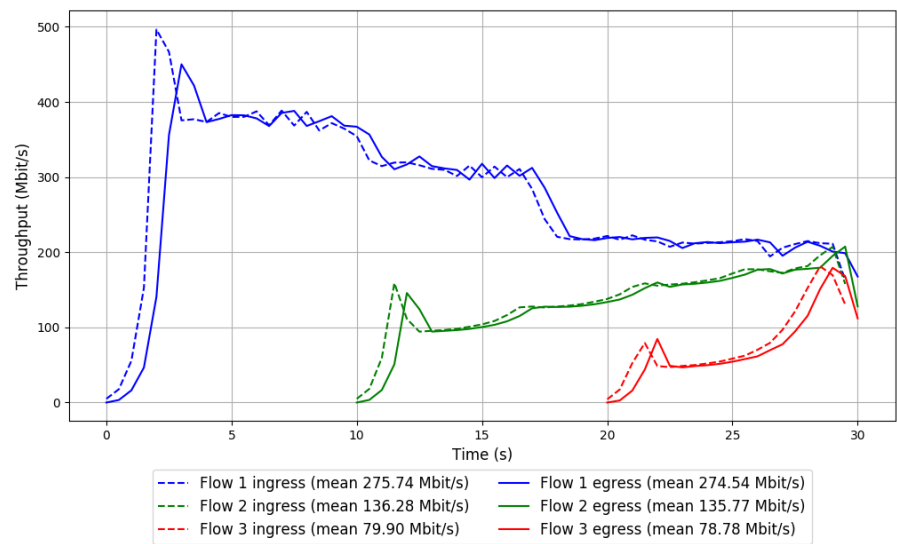
-- Flow 3:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 68.136 ms

Loss rate: 2.68%

Run 6: Report of PCC-Expr — Data Link

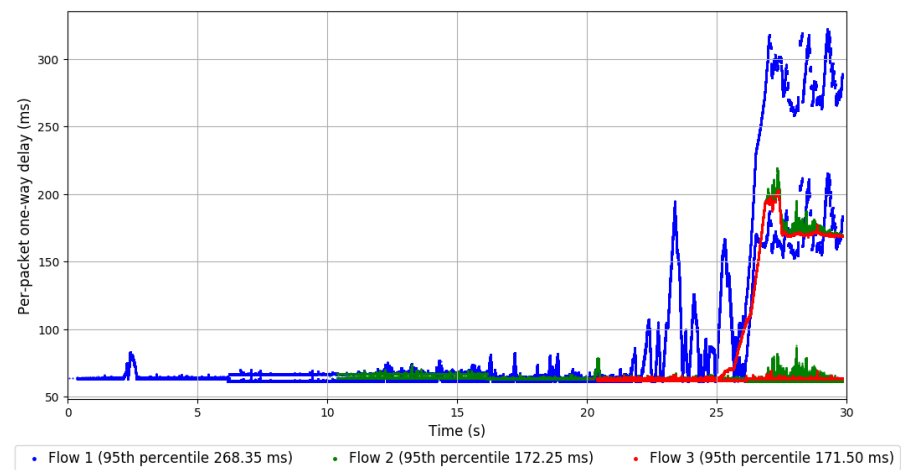
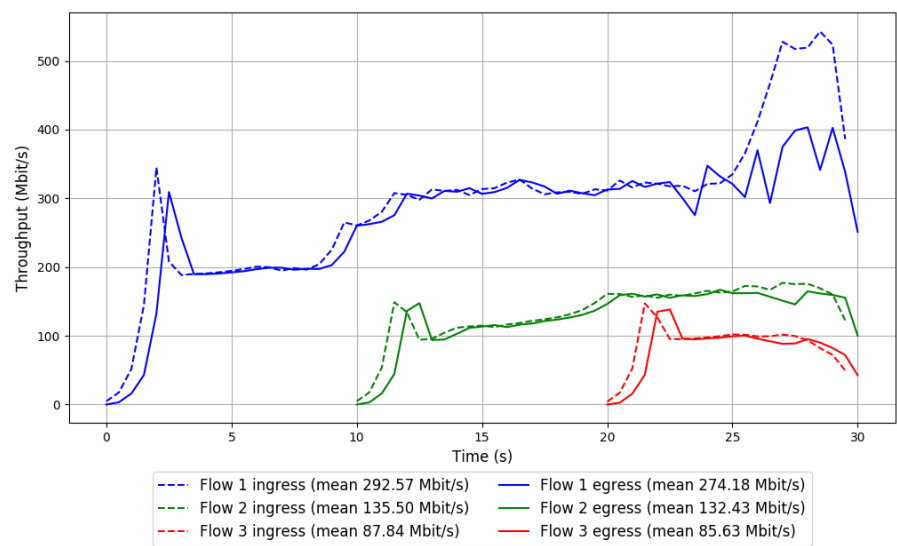


Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 20:04:54
End at: 2018-06-06 20:05:24
Local clock offset: -0.023 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-06-06 23:21:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 390.04 Mbit/s
95th percentile per-packet one-way delay: 212.682 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 274.18 Mbit/s
95th percentile per-packet one-way delay: 268.353 ms
Loss rate: 6.70%
-- Flow 2:
Average throughput: 132.43 Mbit/s
95th percentile per-packet one-way delay: 172.255 ms
Loss rate: 2.92%
-- Flow 3:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 171.502 ms
Loss rate: 3.82%

Run 7: Report of PCC-Expr — Data Link

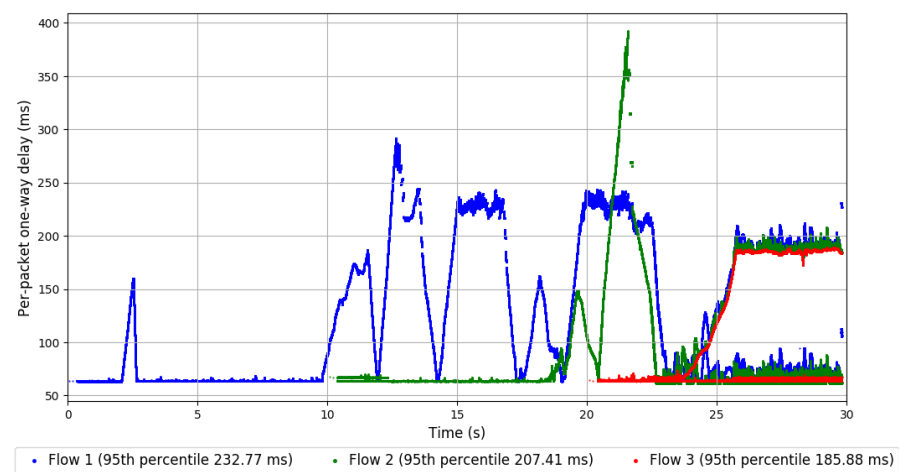
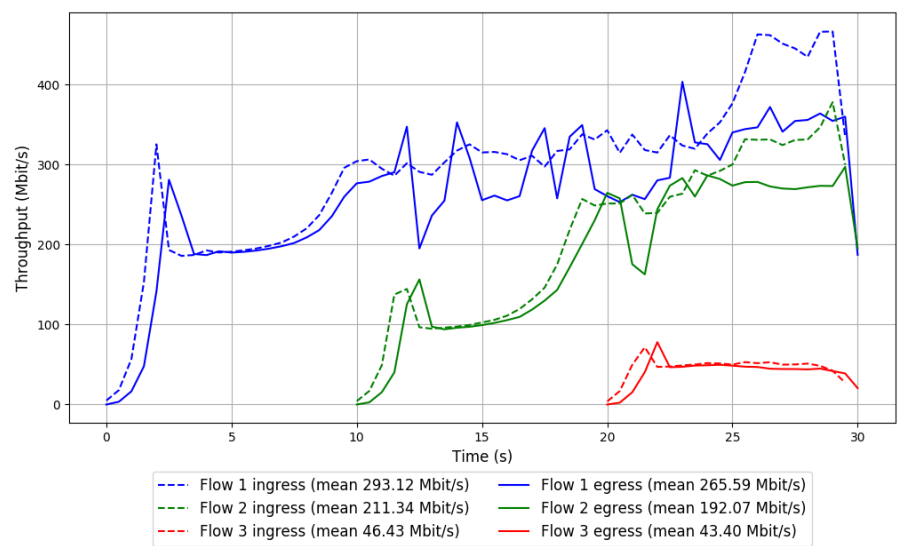


Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 20:27:58
End at: 2018-06-06 20:28:28
Local clock offset: 0.065 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-06-06 23:22:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 407.17 Mbit/s
95th percentile per-packet one-way delay: 231.591 ms
Loss rate: 9.70%
-- Flow 1:
Average throughput: 265.59 Mbit/s
95th percentile per-packet one-way delay: 232.773 ms
Loss rate: 9.79%
-- Flow 2:
Average throughput: 192.07 Mbit/s
95th percentile per-packet one-way delay: 207.406 ms
Loss rate: 9.74%
-- Flow 3:
Average throughput: 43.40 Mbit/s
95th percentile per-packet one-way delay: 185.876 ms
Loss rate: 7.78%

Run 8: Report of PCC-Expr — Data Link

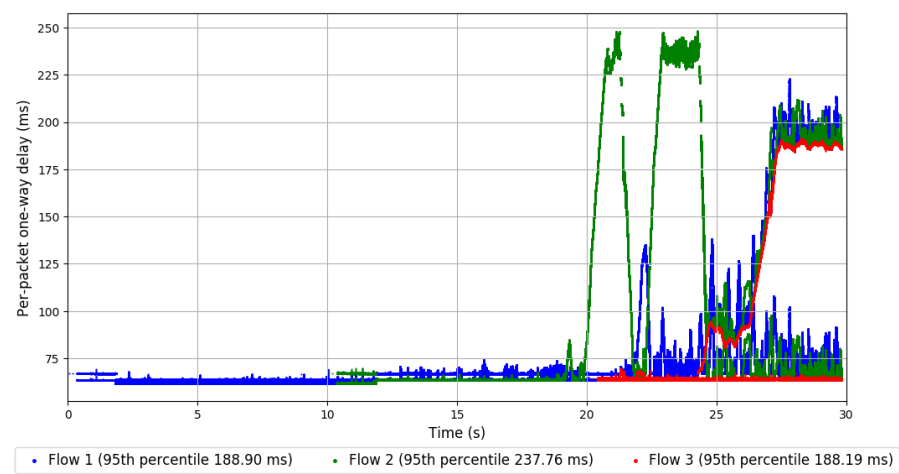
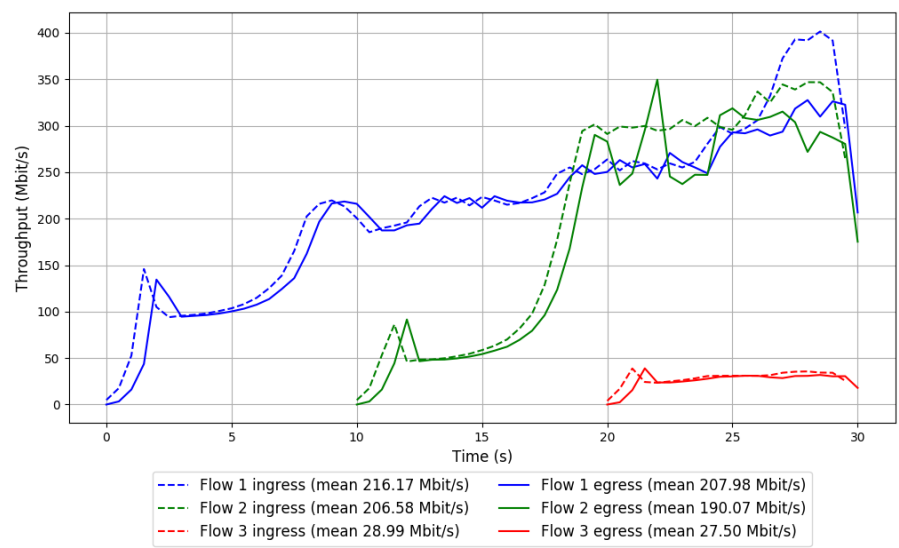


Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 20:51:29
End at: 2018-06-06 20:51:59
Local clock offset: 0.063 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-06-06 23:22:12
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.10 Mbit/s
95th percentile per-packet one-way delay: 226.851 ms
Loss rate: 5.93%
-- Flow 1:
Average throughput: 207.98 Mbit/s
95th percentile per-packet one-way delay: 188.903 ms
Loss rate: 4.21%
-- Flow 2:
Average throughput: 190.07 Mbit/s
95th percentile per-packet one-way delay: 237.764 ms
Loss rate: 8.60%
-- Flow 3:
Average throughput: 27.50 Mbit/s
95th percentile per-packet one-way delay: 188.192 ms
Loss rate: 6.47%

Run 9: Report of PCC-Expr — Data Link

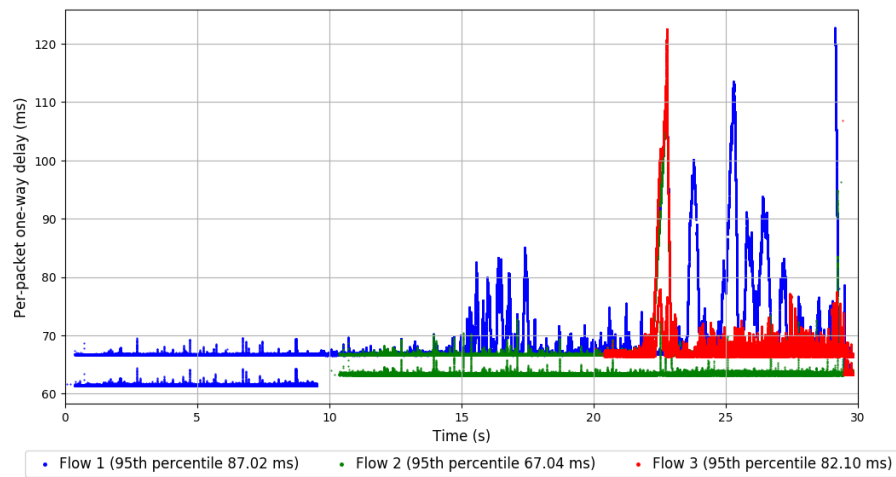
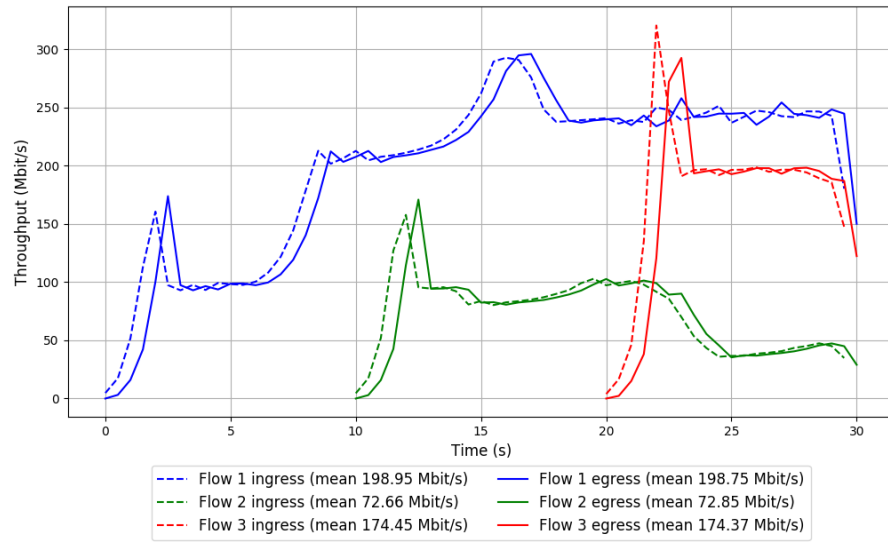


Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 21:14:11
End at: 2018-06-06 21:14:41
Local clock offset: 0.093 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.11 Mbit/s
95th percentile per-packet one-way delay: 84.350 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 198.75 Mbit/s
95th percentile per-packet one-way delay: 87.017 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 67.044 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 174.37 Mbit/s
95th percentile per-packet one-way delay: 82.100 ms
Loss rate: 1.42%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 17:49:24

End at: 2018-06-06 17:49:54

Local clock offset: -0.047 ms

Remote clock offset: 0.133 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 77.84 Mbit/s

95th percentile per-packet one-way delay: 63.439 ms

Loss rate: 0.91%

-- Flow 1:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 63.304 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 37.51 Mbit/s

95th percentile per-packet one-way delay: 63.288 ms

Loss rate: 1.31%

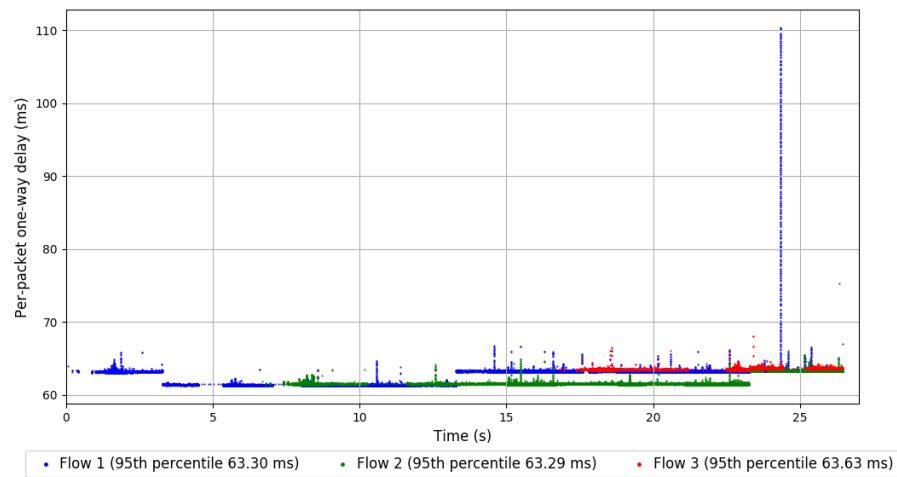
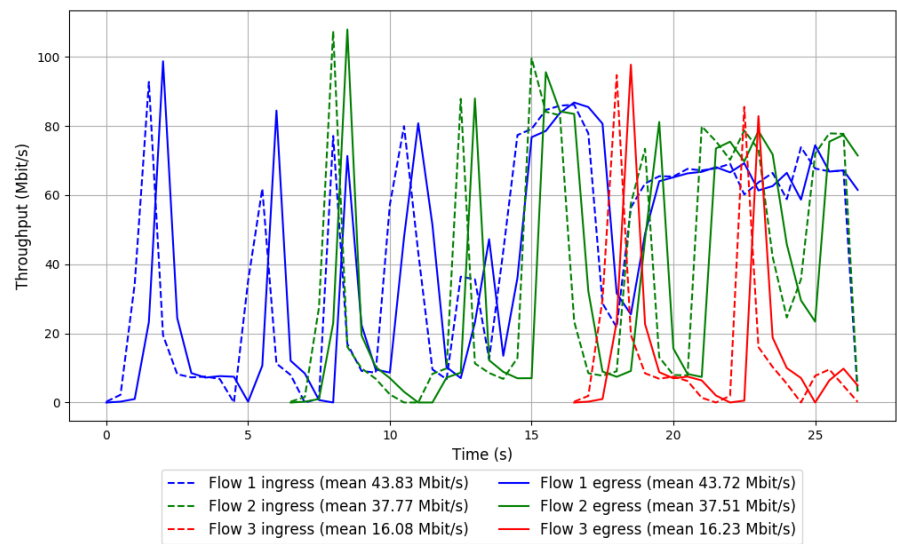
-- Flow 3:

Average throughput: 16.23 Mbit/s

95th percentile per-packet one-way delay: 63.630 ms

Loss rate: 0.38%

Run 1: Report of QUIC Cubic — Data Link

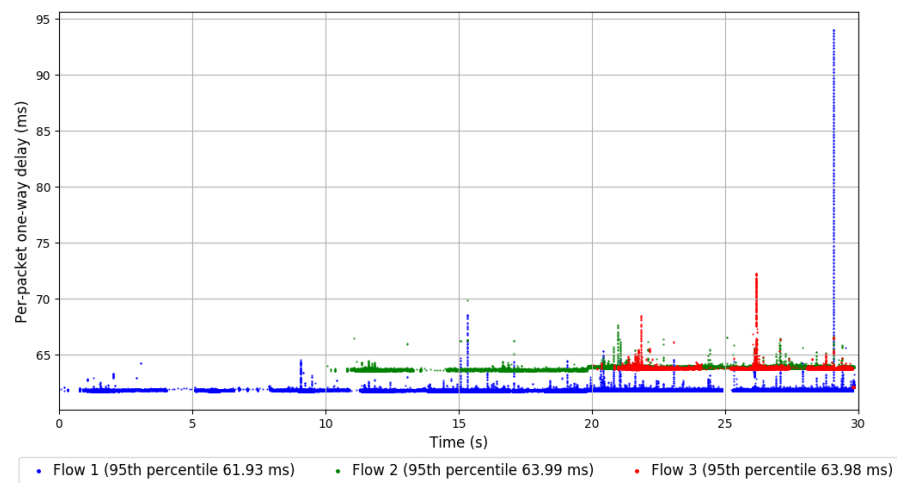
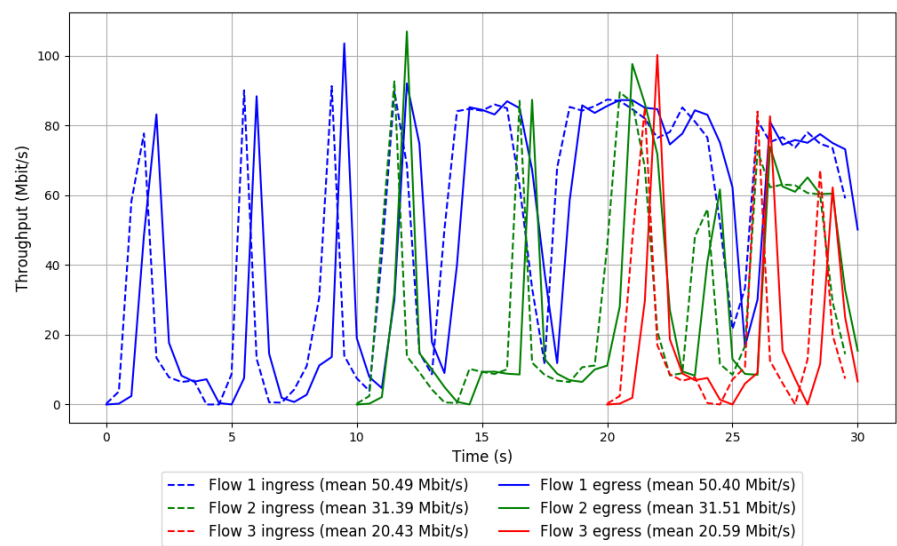


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 18:12:51
End at: 2018-06-06 18:13:21
Local clock offset: -0.018 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.06 Mbit/s
95th percentile per-packet one-way delay: 63.939 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 50.40 Mbit/s
95th percentile per-packet one-way delay: 61.931 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 31.51 Mbit/s
95th percentile per-packet one-way delay: 63.991 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 63.982 ms
Loss rate: 0.53%

Run 2: Report of QUIC Cubic — Data Link

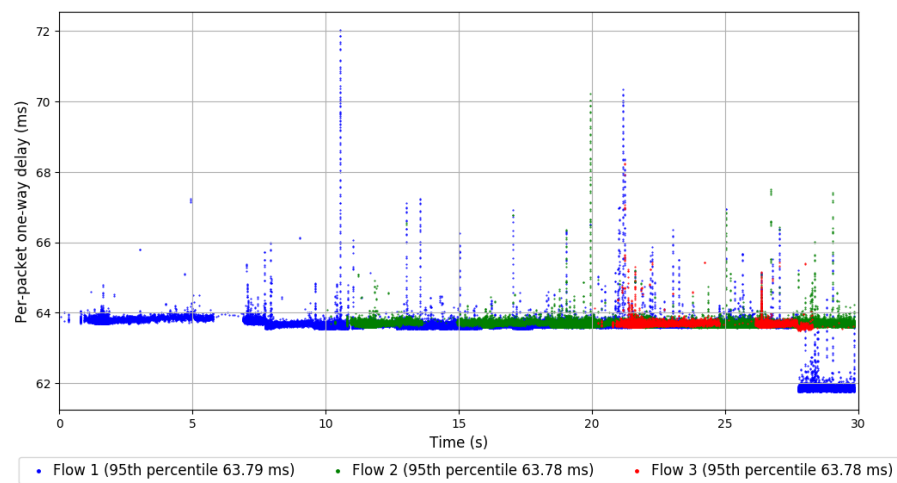
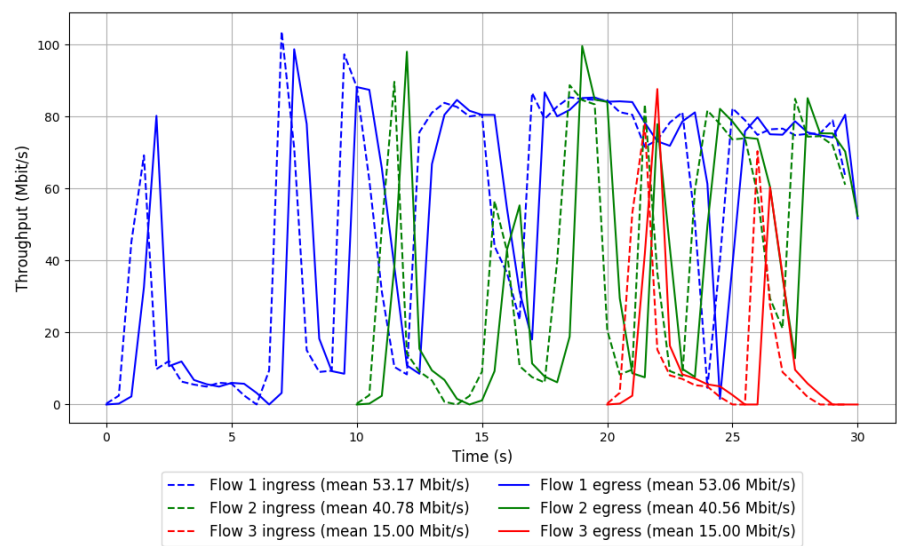


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 18:36:03
End at: 2018-06-06 18:36:33
Local clock offset: -0.018 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 63.786 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 63.791 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 40.56 Mbit/s
95th percentile per-packet one-way delay: 63.778 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 15.00 Mbit/s
95th percentile per-packet one-way delay: 63.780 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

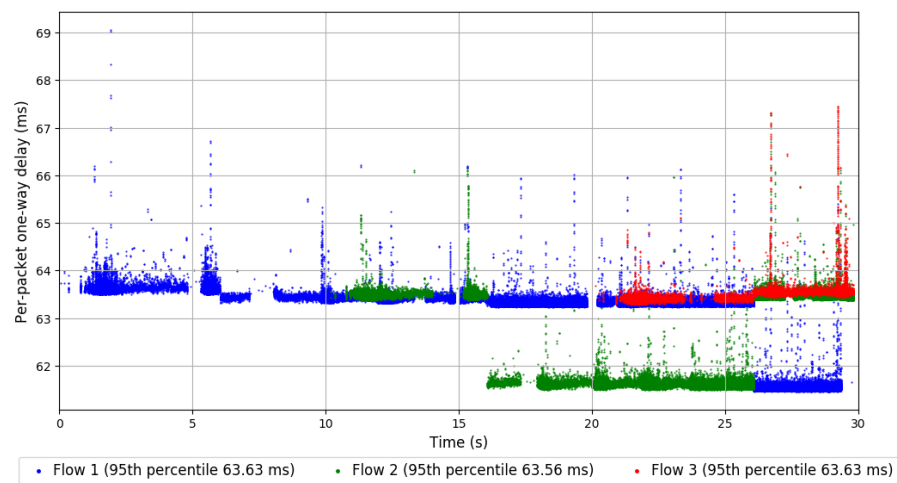
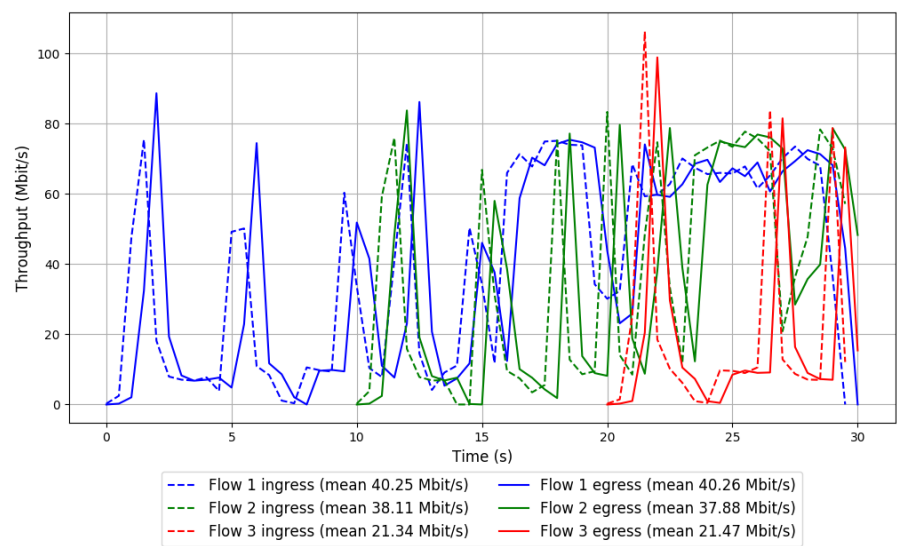


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 18:59:24
End at: 2018-06-06 18:59:54
Local clock offset: 0.034 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.31 Mbit/s
95th percentile per-packet one-way delay: 63.610 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 40.26 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 63.564 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 63.634 ms
Loss rate: 0.72%

Run 4: Report of QUIC Cubic — Data Link

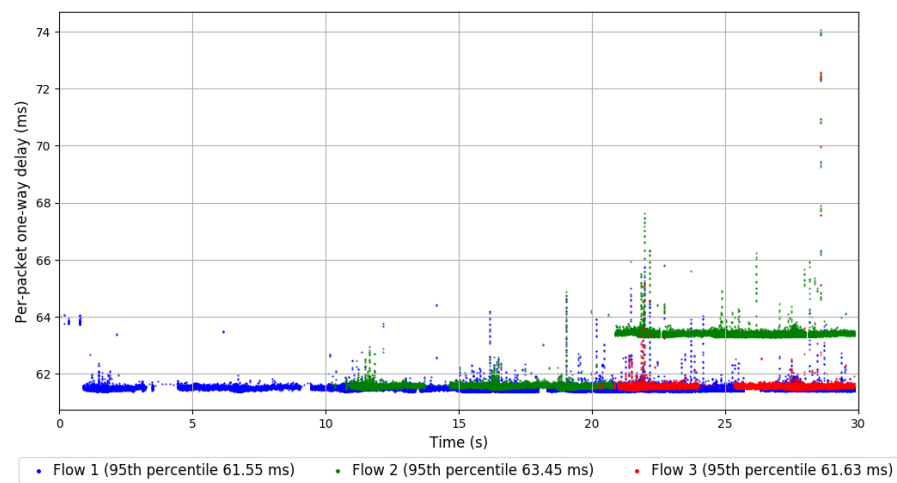
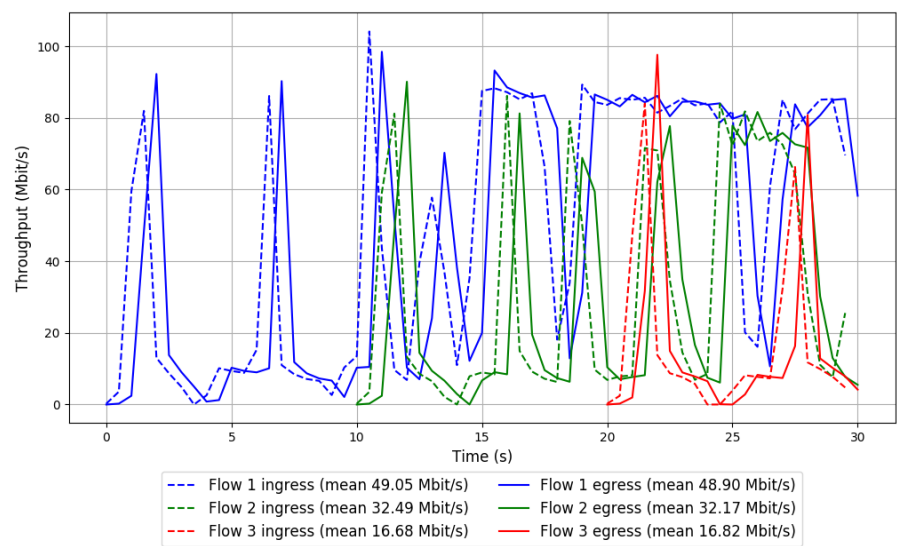


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 19:22:40
End at: 2018-06-06 19:23:10
Local clock offset: -0.054 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 63.388 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 48.90 Mbit/s
95th percentile per-packet one-way delay: 61.553 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 32.17 Mbit/s
95th percentile per-packet one-way delay: 63.448 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 16.82 Mbit/s
95th percentile per-packet one-way delay: 61.629 ms
Loss rate: 0.42%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 19:46:00

End at: 2018-06-06 19:46:30

Local clock offset: -0.031 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 67.17 Mbit/s

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

Loss rate: 1.25%

-- Flow 1:

Average throughput: 47.14 Mbit/s

95th percentile per-packet one-way delay: 61.616 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 61.568 ms

Loss rate: 1.80%

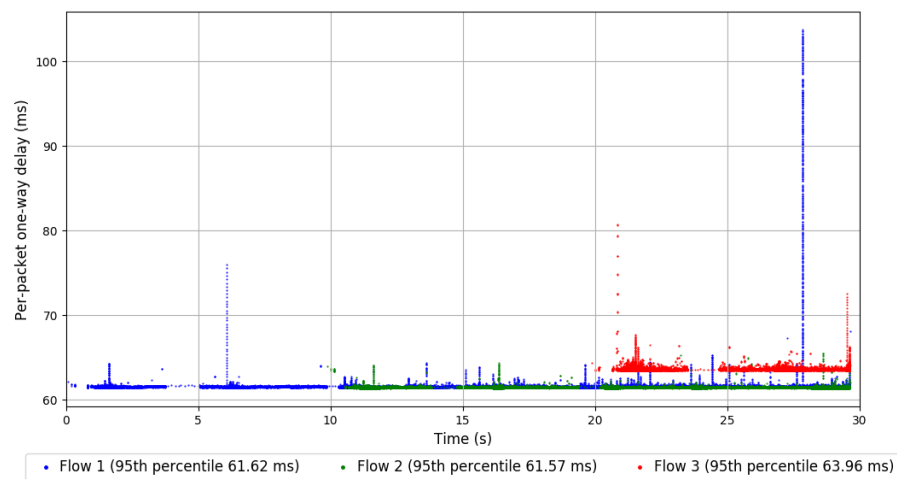
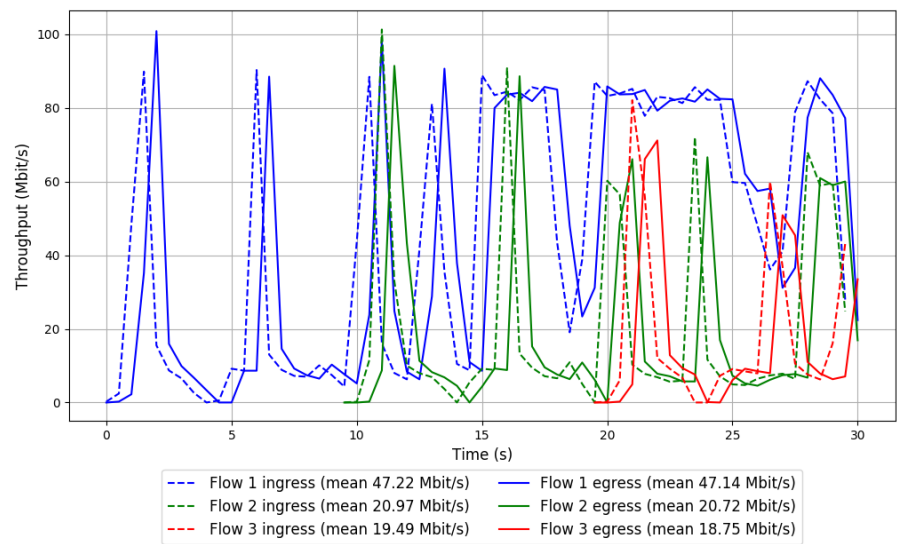
-- Flow 3:

Average throughput: 18.75 Mbit/s

95th percentile per-packet one-way delay: 63.956 ms

Loss rate: 5.02%

Run 6: Report of QUIC Cubic — Data Link

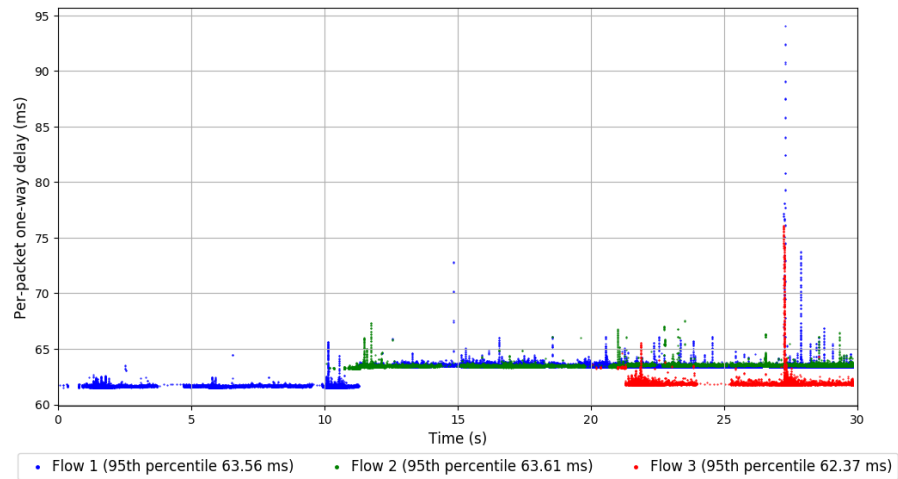
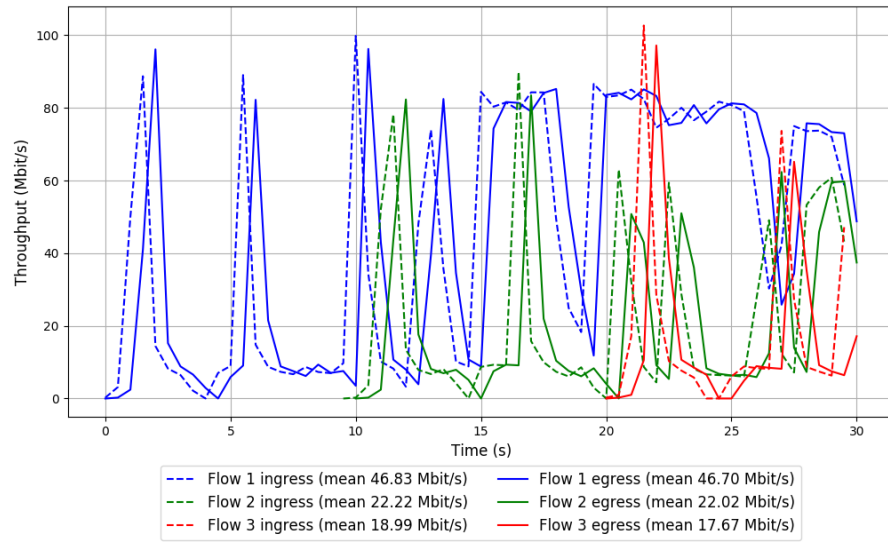


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 20:09:19
End at: 2018-06-06 20:09:49
Local clock offset: -0.042 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.12 Mbit/s
95th percentile per-packet one-way delay: 63.577 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 46.70 Mbit/s
95th percentile per-packet one-way delay: 63.560 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 22.02 Mbit/s
95th percentile per-packet one-way delay: 63.613 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 17.67 Mbit/s
95th percentile per-packet one-way delay: 62.374 ms
Loss rate: 8.20%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 20:32:19

End at: 2018-06-06 20:32:49

Local clock offset: 0.049 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 66.736 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 43.90 Mbit/s

95th percentile per-packet one-way delay: 63.526 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 30.80 Mbit/s

95th percentile per-packet one-way delay: 66.785 ms

Loss rate: 0.98%

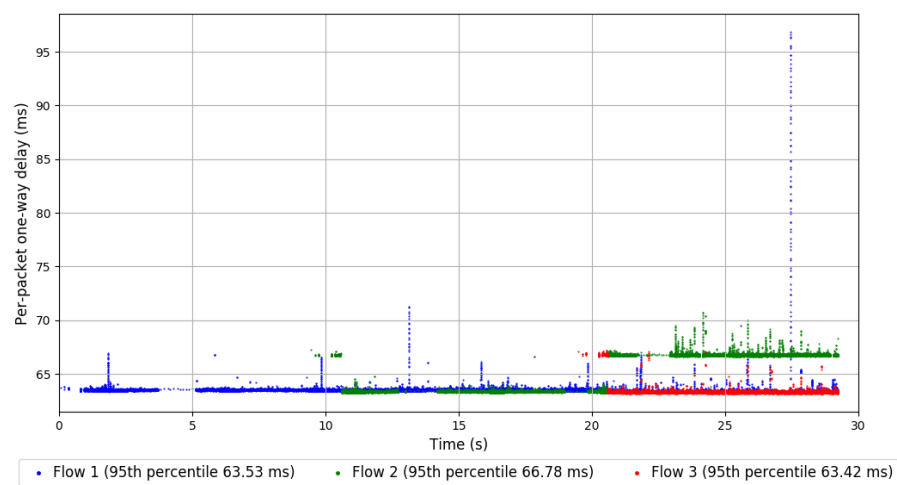
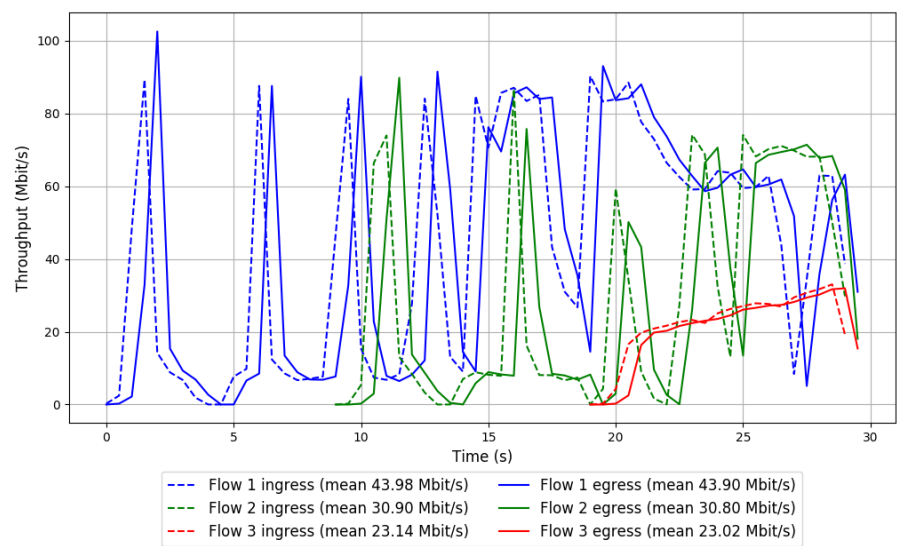
-- Flow 3:

Average throughput: 23.02 Mbit/s

95th percentile per-packet one-way delay: 63.417 ms

Loss rate: 1.83%

Run 8: Report of QUIC Cubic — Data Link

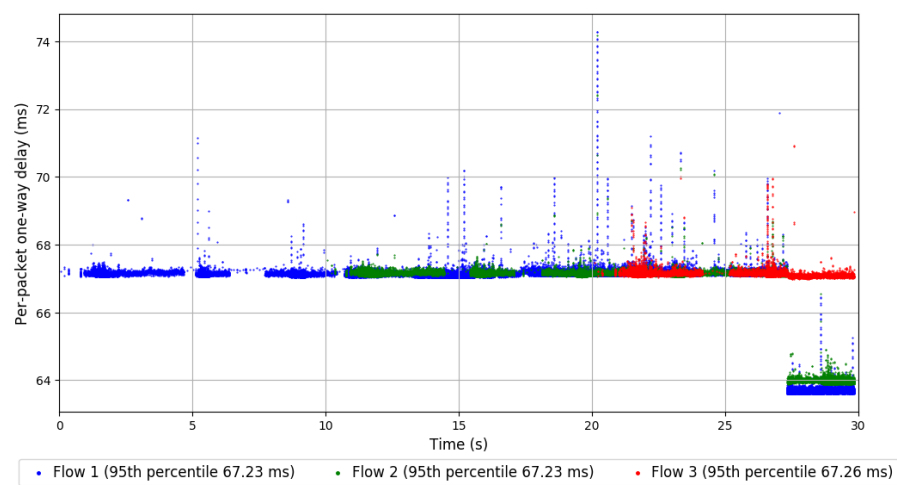
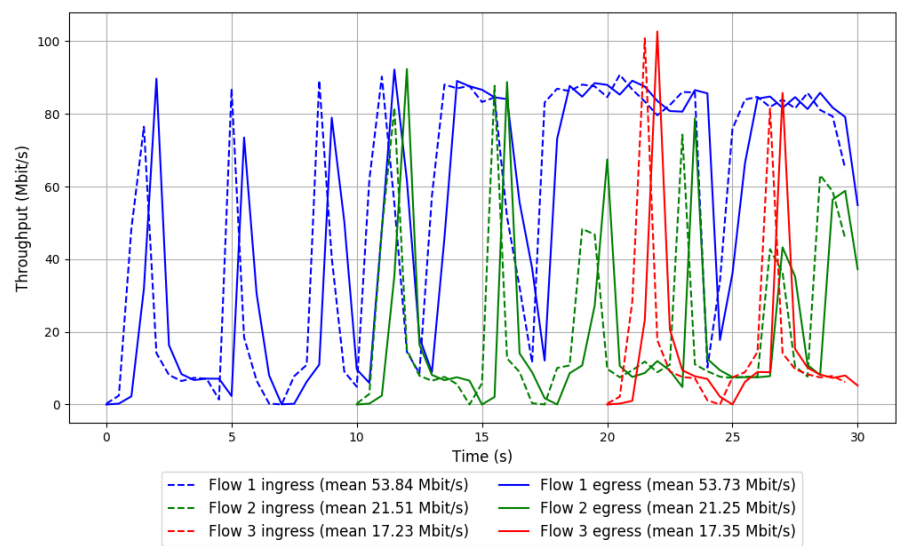


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 20:55:43
End at: 2018-06-06 20:56:13
Local clock offset: 0.067 ms
Remote clock offset: -0.484 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.52 Mbit/s
95th percentile per-packet one-way delay: 67.233 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 53.73 Mbit/s
95th percentile per-packet one-way delay: 67.230 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 67.235 ms
Loss rate: 1.86%
-- Flow 3:
Average throughput: 17.35 Mbit/s
95th percentile per-packet one-way delay: 67.261 ms
Loss rate: 0.58%

Run 9: Report of QUIC Cubic — Data Link

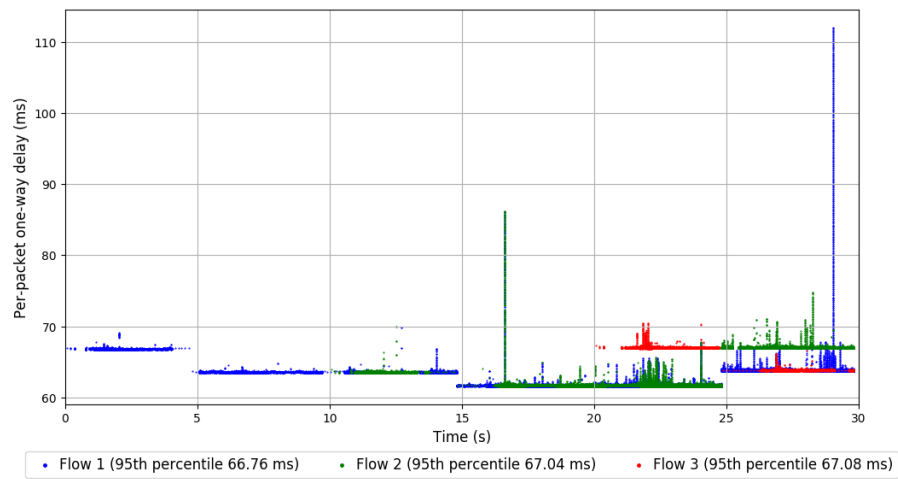
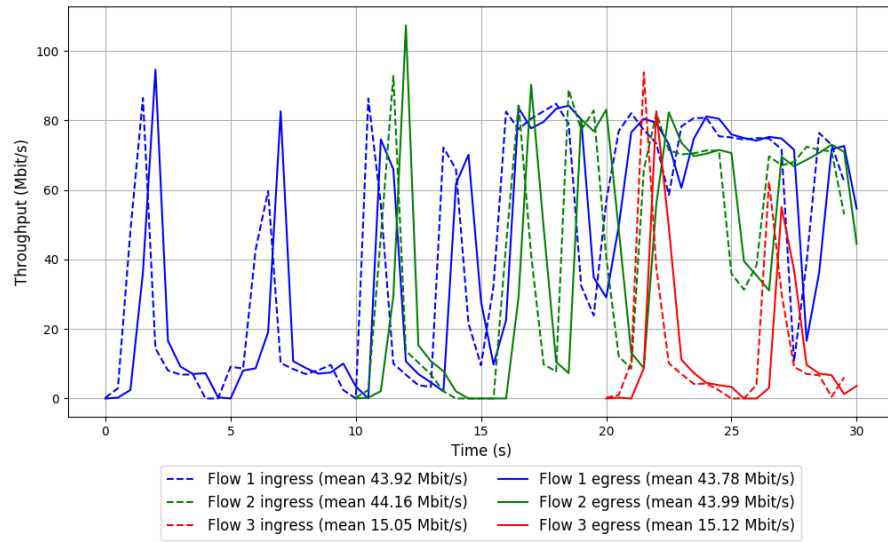


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 21:18:26
End at: 2018-06-06 21:18:56
Local clock offset: 0.098 ms
Remote clock offset: -0.371 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.93 Mbit/s
95th percentile per-packet one-way delay: 67.009 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 43.78 Mbit/s
95th percentile per-packet one-way delay: 66.758 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 43.99 Mbit/s
95th percentile per-packet one-way delay: 67.043 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 15.12 Mbit/s
95th percentile per-packet one-way delay: 67.081 ms
Loss rate: 0.82%

Run 10: Report of QUIC Cubic — Data Link

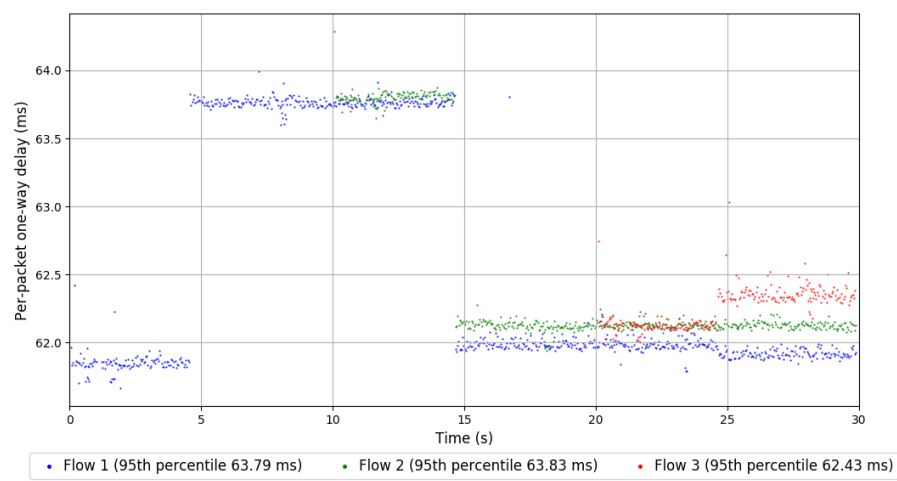
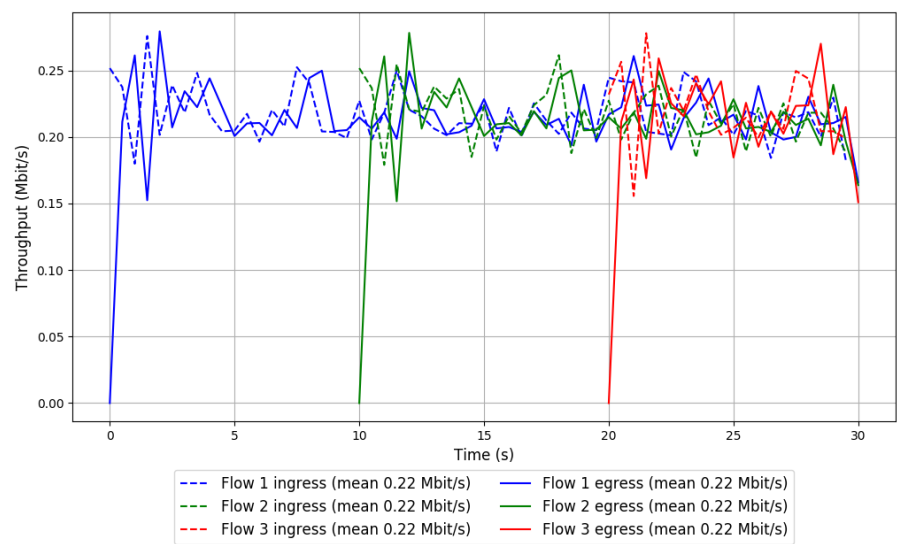


Run 1: Statistics of SCReAM

Start at: 2018-06-06 17:31:16
End at: 2018-06-06 17:31:46
Local clock offset: -0.057 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.807 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.792 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.826 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.427 ms
Loss rate: 1.45%

Run 1: Report of SReAM — Data Link

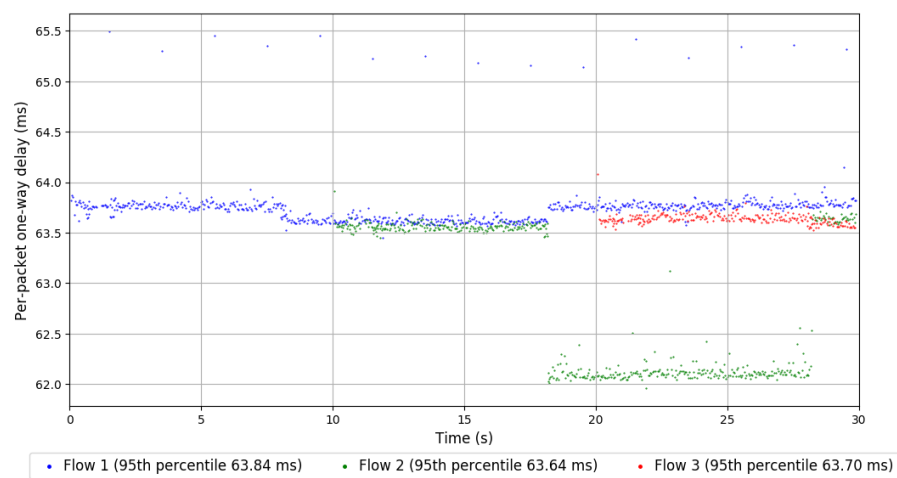
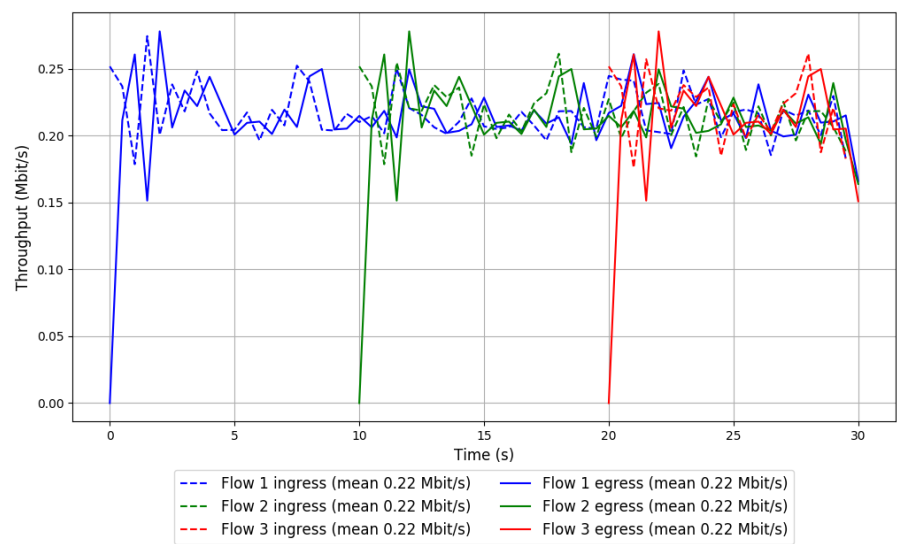


Run 2: Statistics of SReAM

Start at: 2018-06-06 17:54:22
End at: 2018-06-06 17:54:52
Local clock offset: -0.068 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.811 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.845 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.637 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.701 ms
Loss rate: 1.45%

Run 2: Report of SReAM — Data Link

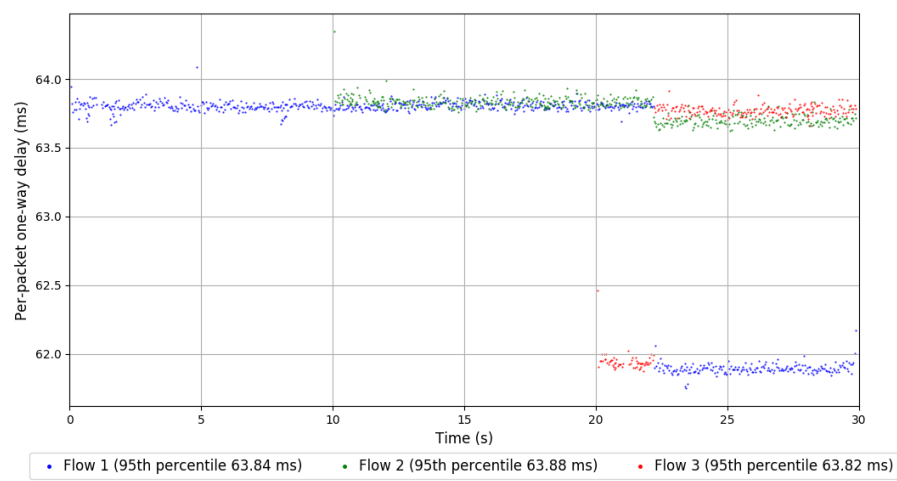
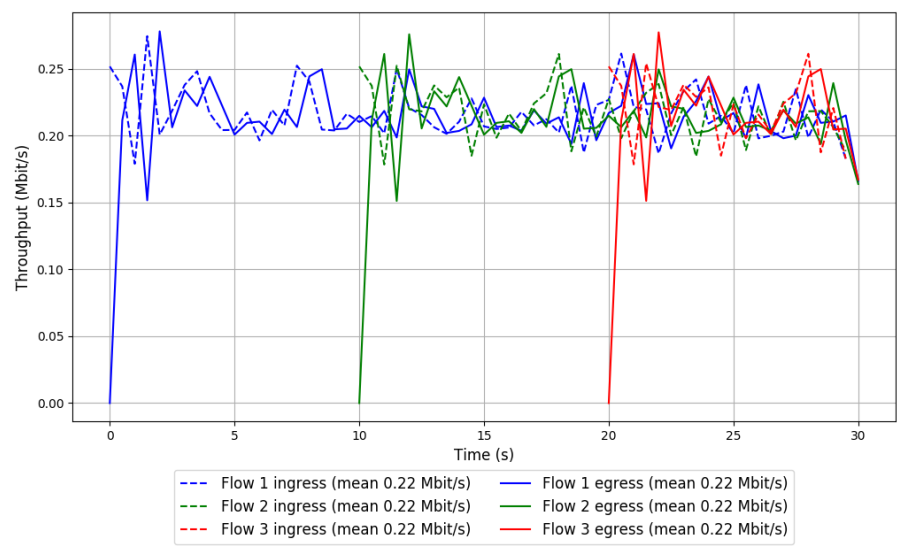


Run 3: Statistics of SReAM

Start at: 2018-06-06 18:17:58
End at: 2018-06-06 18:18:28
Local clock offset: -0.039 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.860 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.844 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.884 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.818 ms
Loss rate: 1.08%

Run 3: Report of SReAM — Data Link

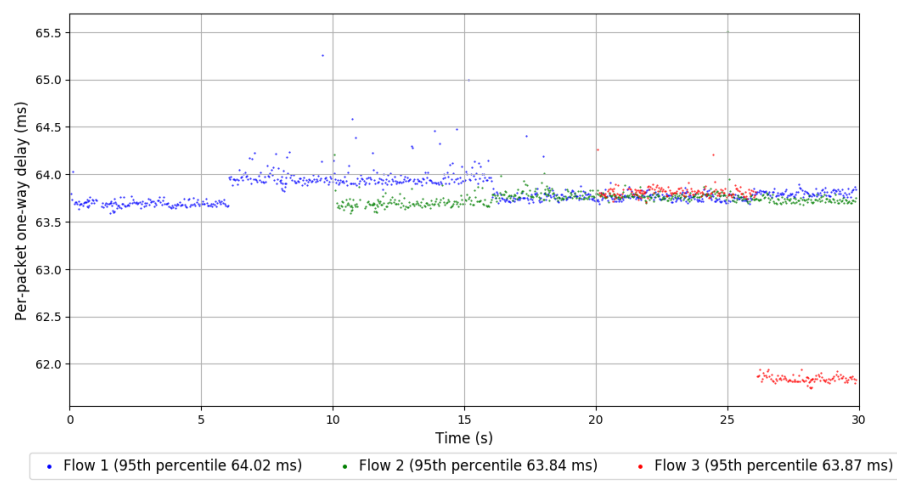
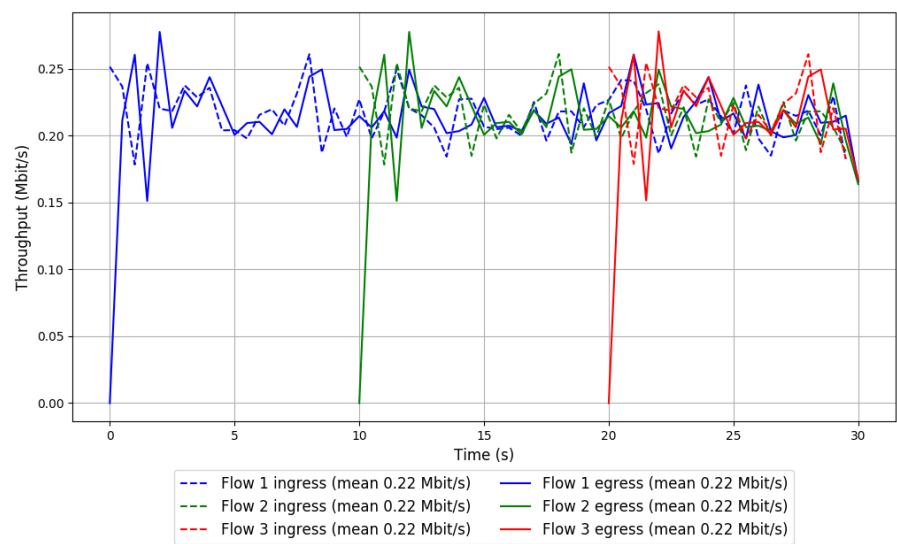


Run 4: Statistics of SReAM

Start at: 2018-06-06 18:41:04
End at: 2018-06-06 18:41:34
Local clock offset: -0.029 ms
Remote clock offset: -0.207 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.979 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.021 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.835 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 1.08%

Run 4: Report of SReAM — Data Link

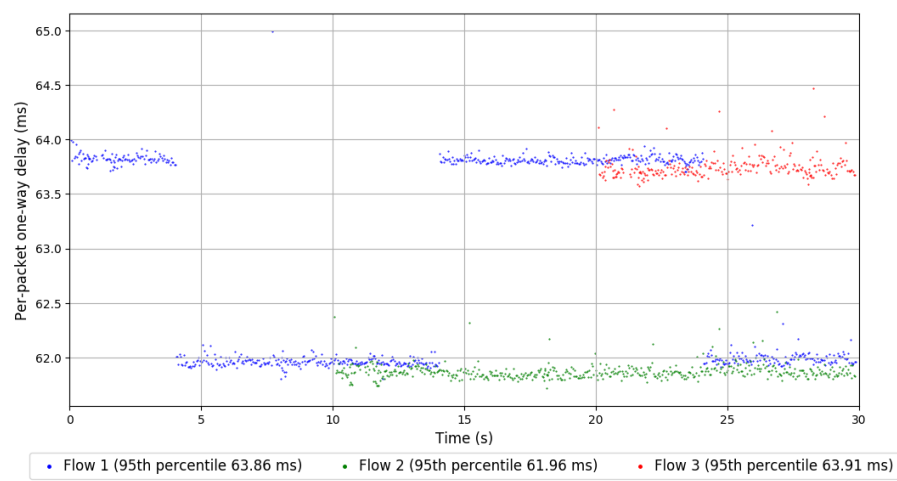
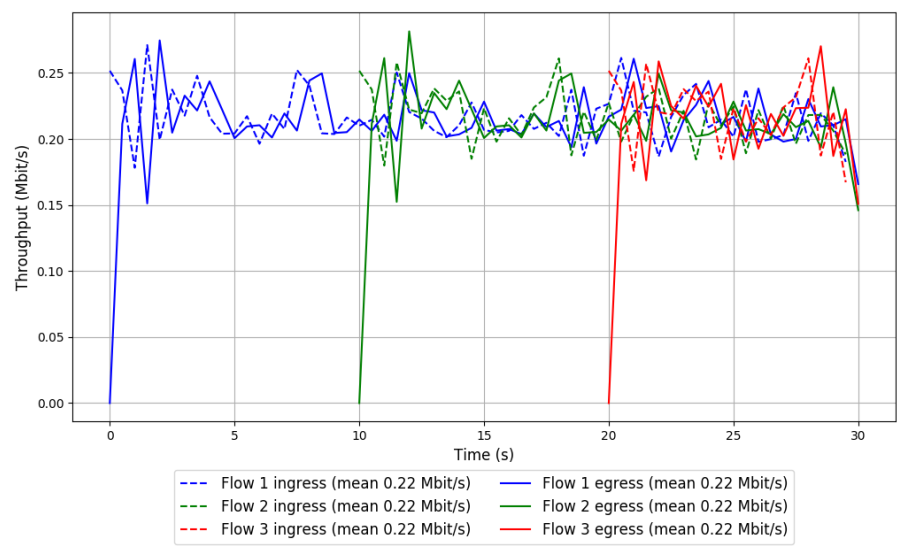


Run 5: Statistics of SReAM

Start at: 2018-06-06 19:04:26
End at: 2018-06-06 19:04:56
Local clock offset: -0.015 ms
Remote clock offset: -0.222 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.852 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.860 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.959 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.907 ms
Loss rate: 1.10%

Run 5: Report of SCReAM — Data Link

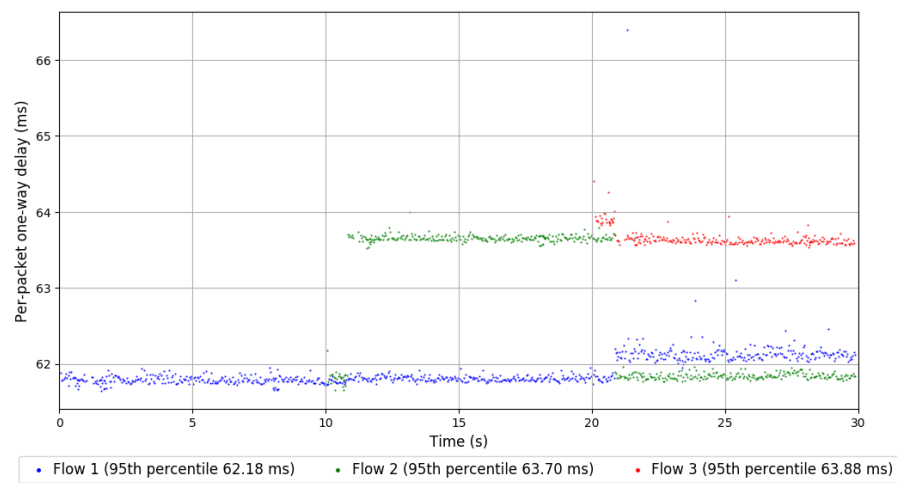
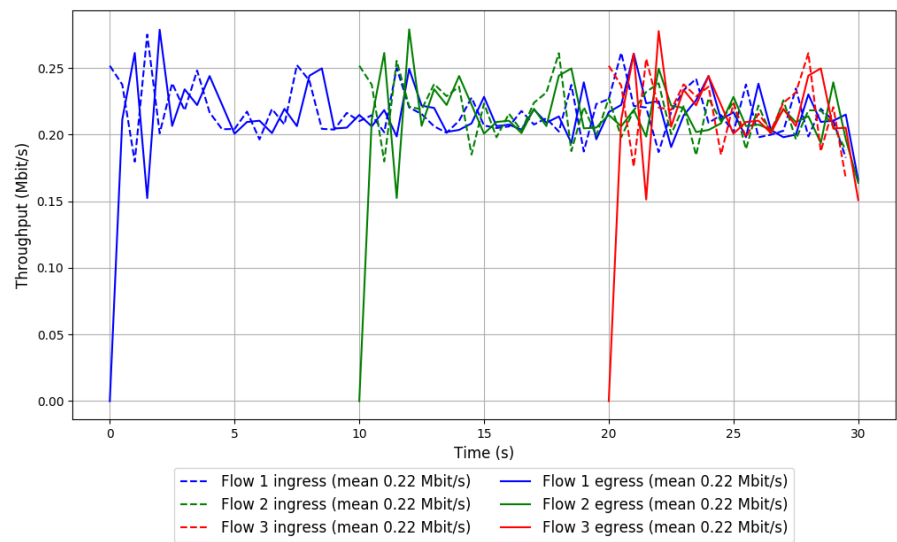


Run 6: Statistics of SReAM

Start at: 2018-06-06 19:27:40
End at: 2018-06-06 19:28:10
Local clock offset: -0.089 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.694 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.184 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.700 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.885 ms
Loss rate: 1.10%

Run 6: Report of SReAM — Data Link

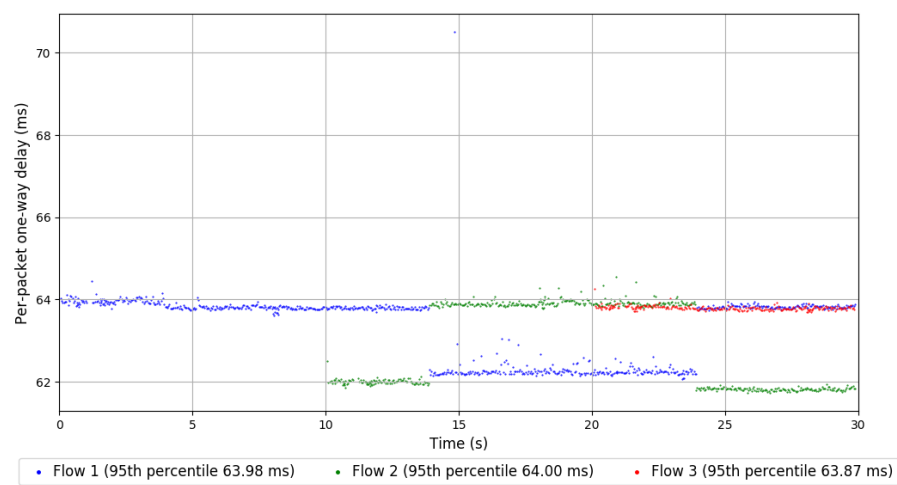
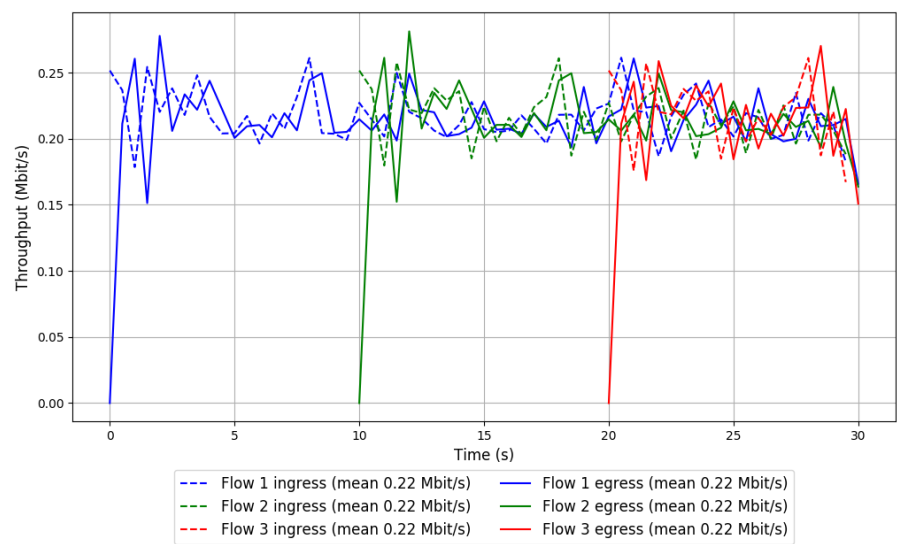


Run 7: Statistics of SReAM

Start at: 2018-06-06 19:50:57
End at: 2018-06-06 19:51:27
Local clock offset: -0.03 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 63.972 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.978 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.998 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 1.10%

Run 7: Report of SReAM — Data Link

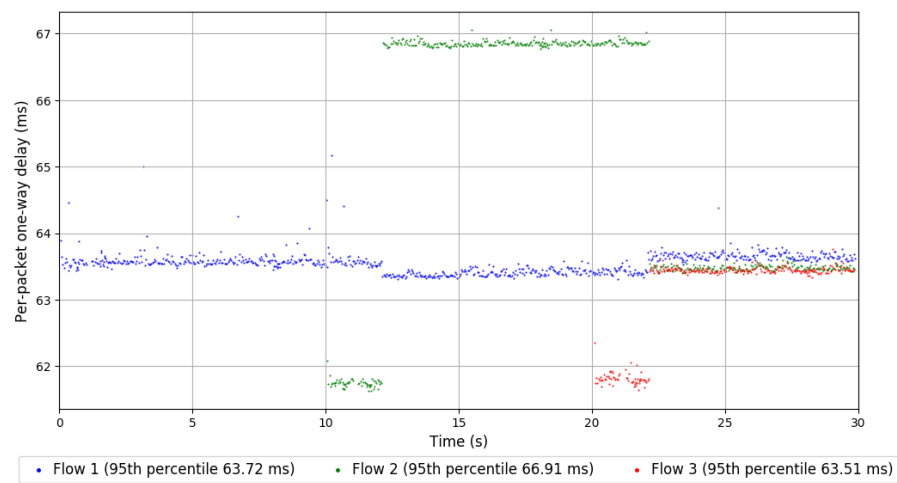
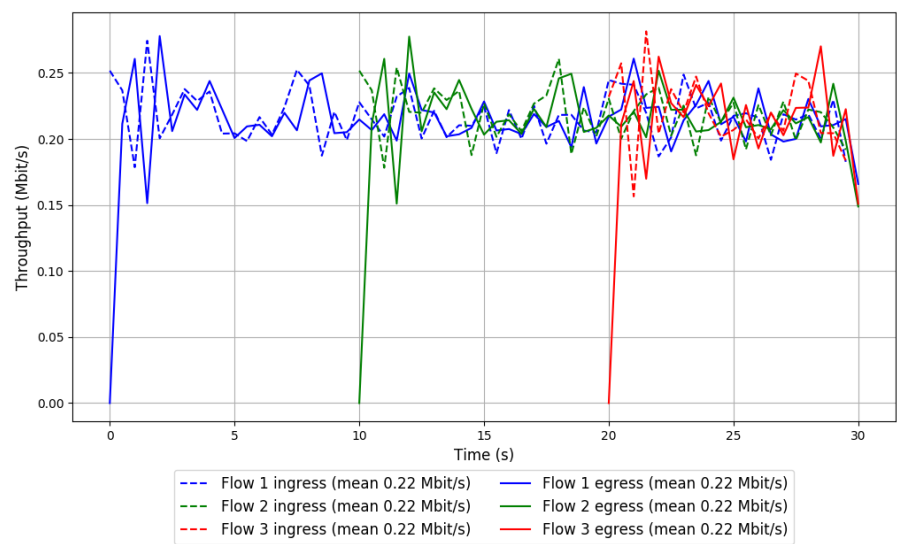


Run 8: Statistics of SReAM

Start at: 2018-06-06 20:14:18
End at: 2018-06-06 20:14:48
Local clock offset: -0.039 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.867 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.905 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.513 ms
Loss rate: 1.10%

Run 8: Report of SCReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-06-06 20:37:44

End at: 2018-06-06 20:38:14

Local clock offset: 0.015 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 66.990 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 67.003 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.951 ms

Loss rate: 0.61%

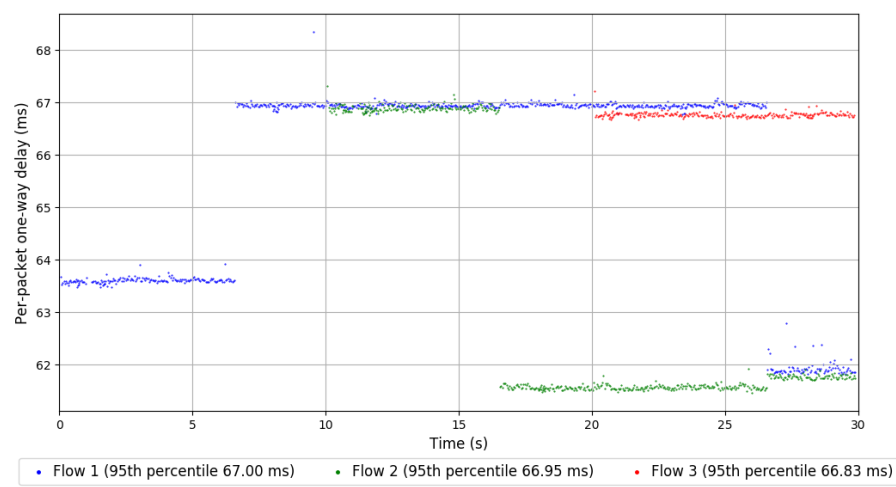
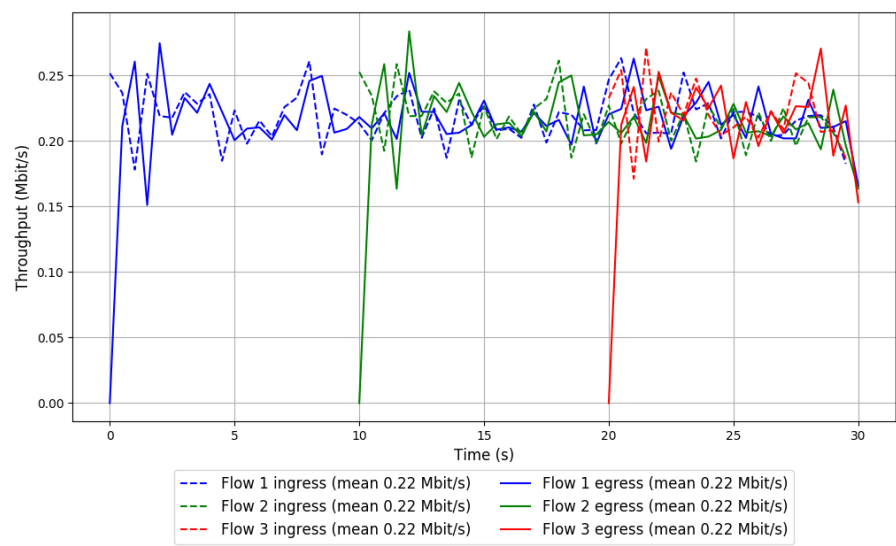
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.828 ms

Loss rate: 1.11%

Run 9: Report of SReAM — Data Link

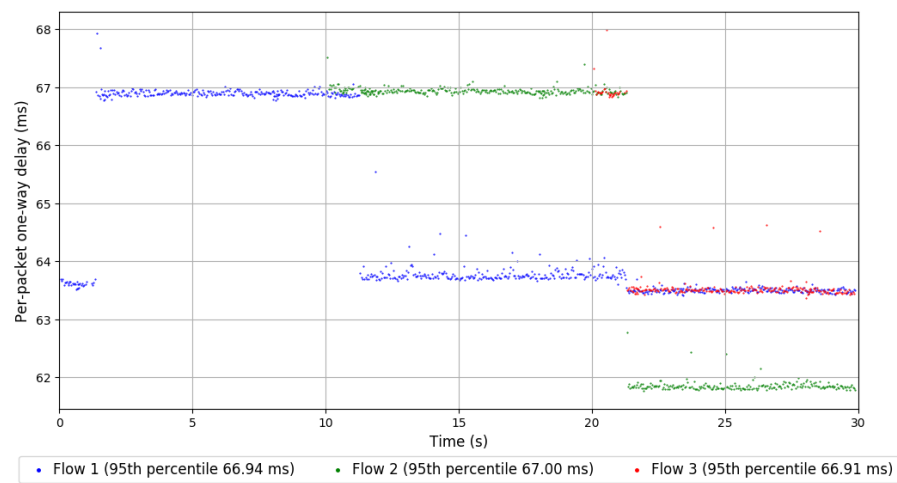
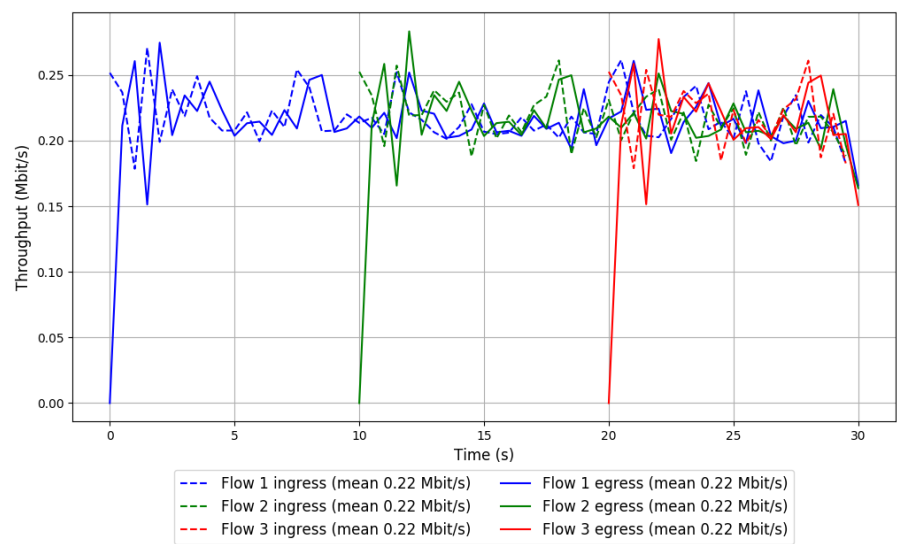


Run 10: Statistics of SCReAM

Start at: 2018-06-06 21:00:39
End at: 2018-06-06 21:01:09
Local clock offset: 0.066 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.969 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.944 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.999 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.913 ms
Loss rate: 1.45%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-06 17:33:54

End at: 2018-06-06 17:34:24

Local clock offset: -0.033 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.70 Mbit/s

95th percentile per-packet one-way delay: 64.032 ms

Loss rate: 0.26%

-- Flow 1:

Average throughput: 1.37 Mbit/s

95th percentile per-packet one-way delay: 63.970 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 63.958 ms

Loss rate: 0.19%

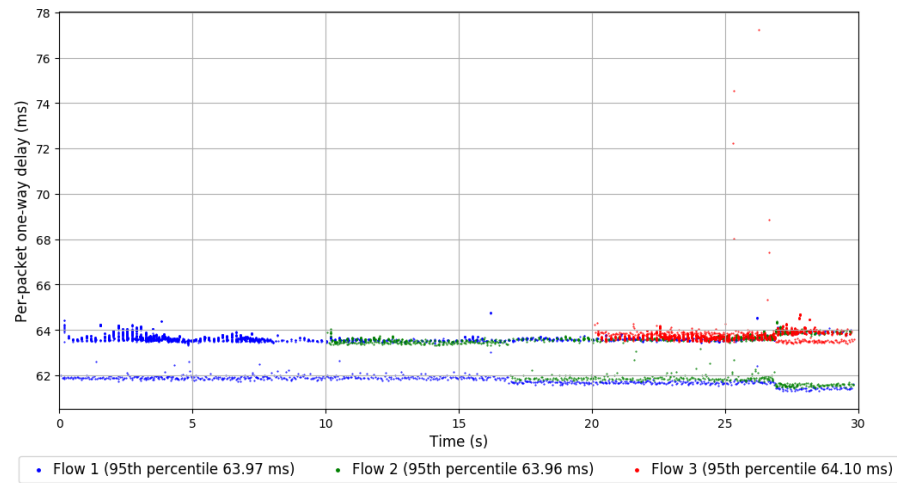
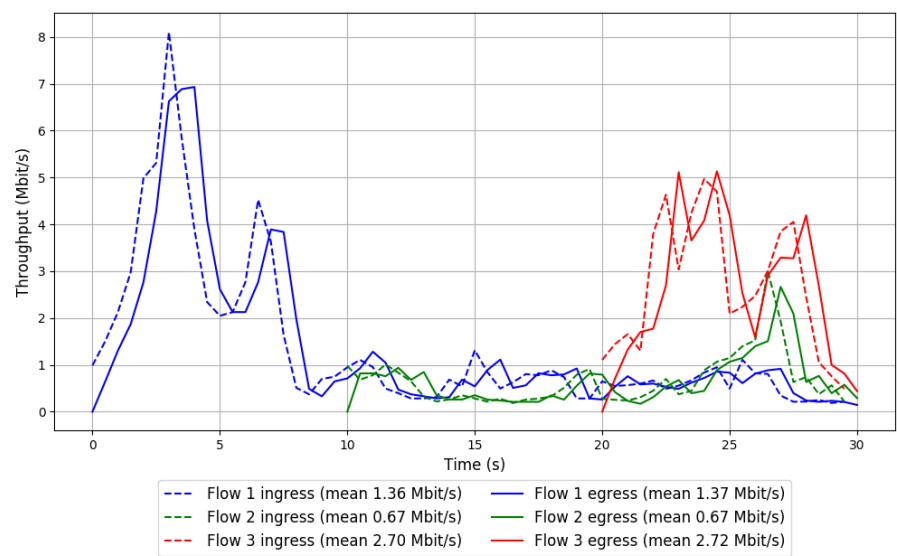
-- Flow 3:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 64.101 ms

Loss rate: 0.47%

Run 1: Report of Sprout — Data Link

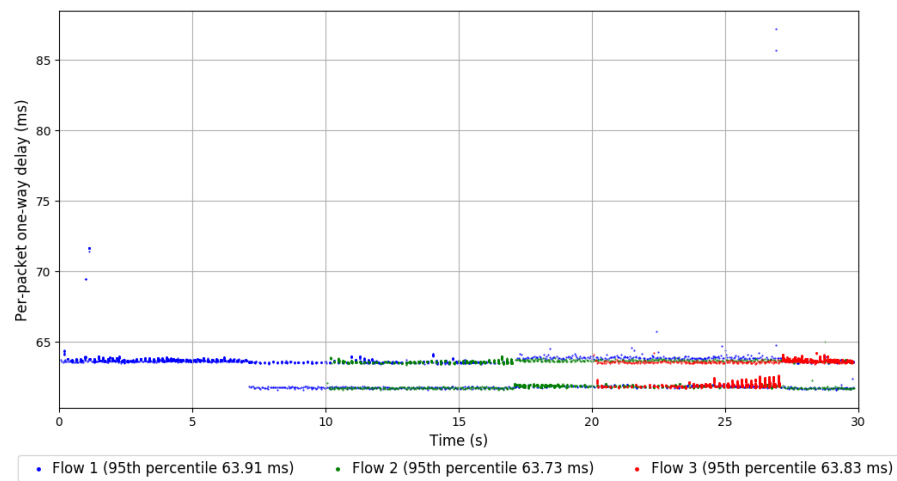
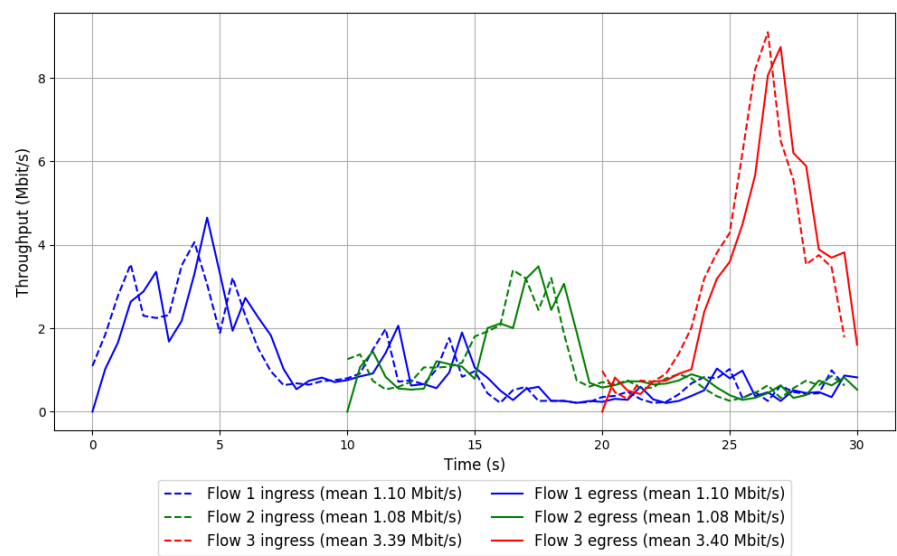


Run 2: Statistics of Sprout

Start at: 2018-06-06 17:57:03
End at: 2018-06-06 17:57:33
Local clock offset: -0.052 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 63.864 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 63.909 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 1.08 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 3.40 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 0.78%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-06 18:20:42

End at: 2018-06-06 18:21:12

Local clock offset: -0.038 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 63.591 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 63.531 ms

Loss rate: 0.56%

-- Flow 2:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 63.862 ms

Loss rate: 0.97%

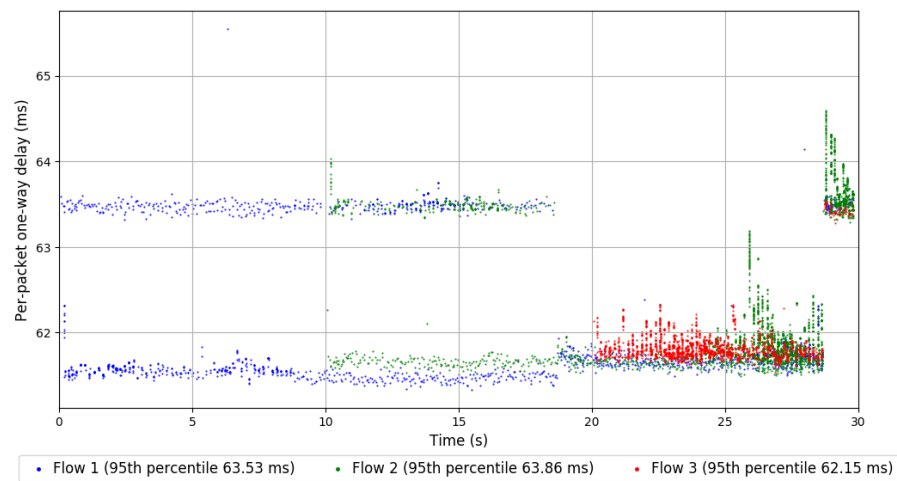
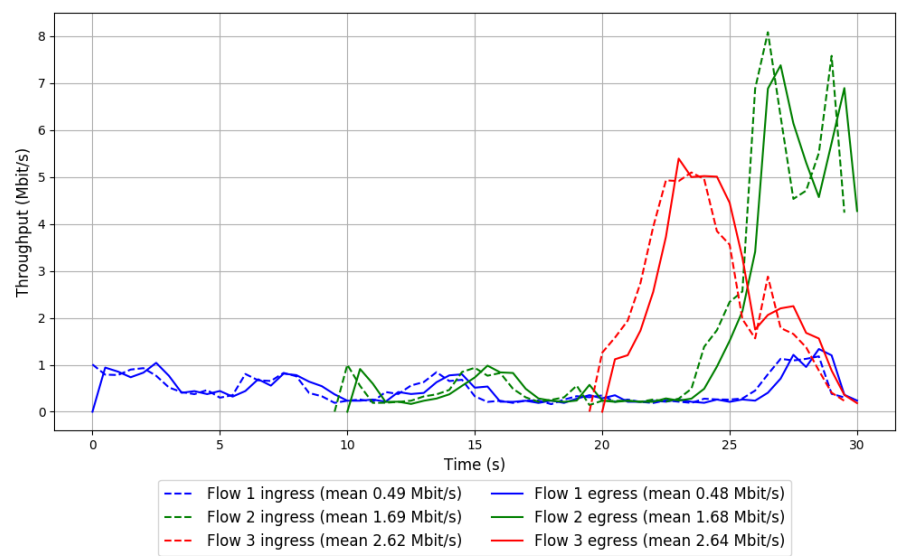
-- Flow 3:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 62.145 ms

Loss rate: 0.19%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-06 18:43:45

End at: 2018-06-06 18:44:15

Local clock offset: -0.01 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 64.139 ms

Loss rate: 0.16%

-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 63.759 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 1.39 Mbit/s

95th percentile per-packet one-way delay: 64.597 ms

Loss rate: 0.21%

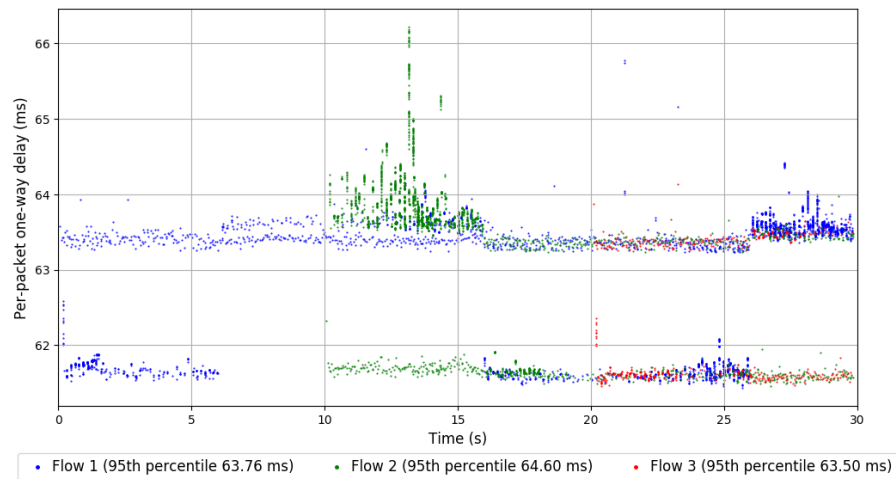
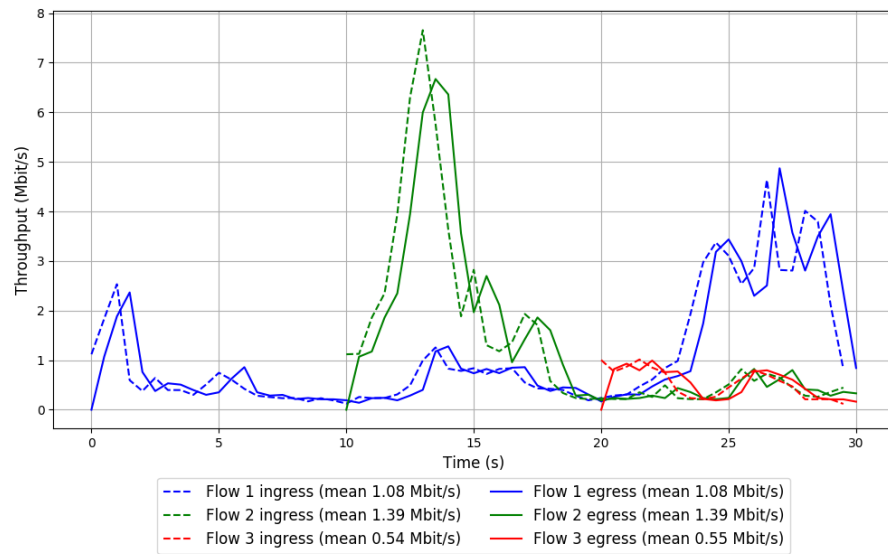
-- Flow 3:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.03%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

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

End at: 2018-06-06 19:07:36

Local clock offset: -0.008 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.83 Mbit/s

95th percentile per-packet one-way delay: 63.936 ms

Loss rate: 0.40%

-- Flow 1:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 62.194 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 2.98 Mbit/s

95th percentile per-packet one-way delay: 63.980 ms

Loss rate: 0.02%

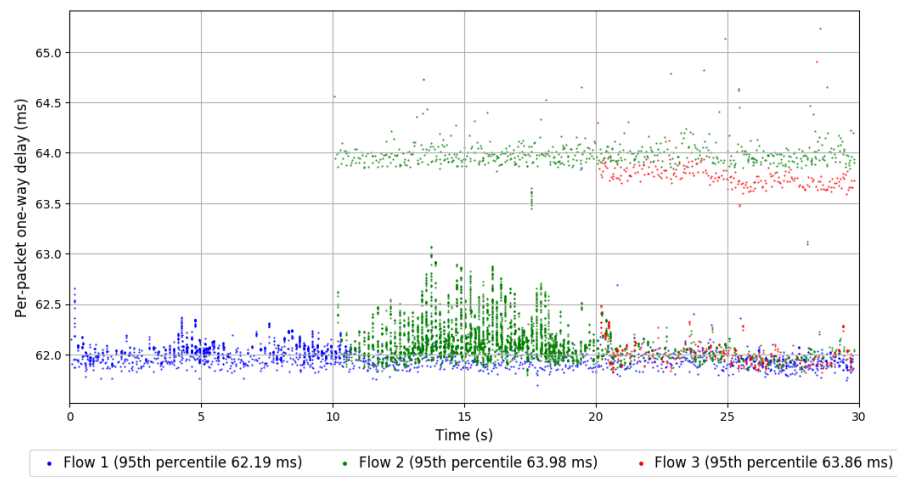
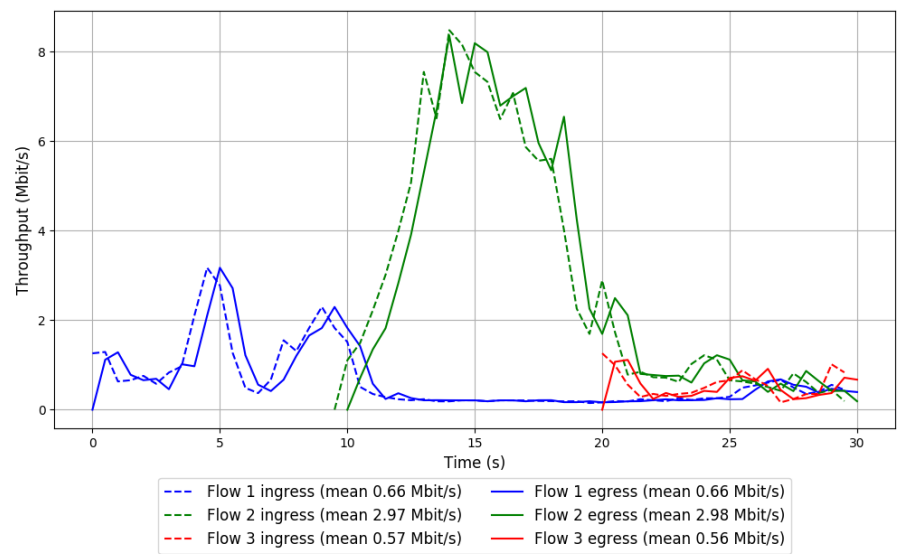
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 63.863 ms

Loss rate: 4.08%

Run 5: Report of Sprout — Data Link

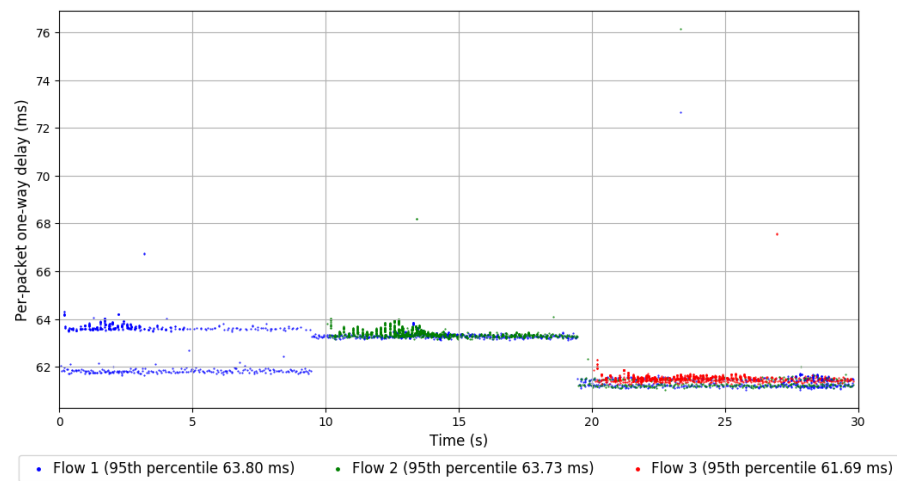
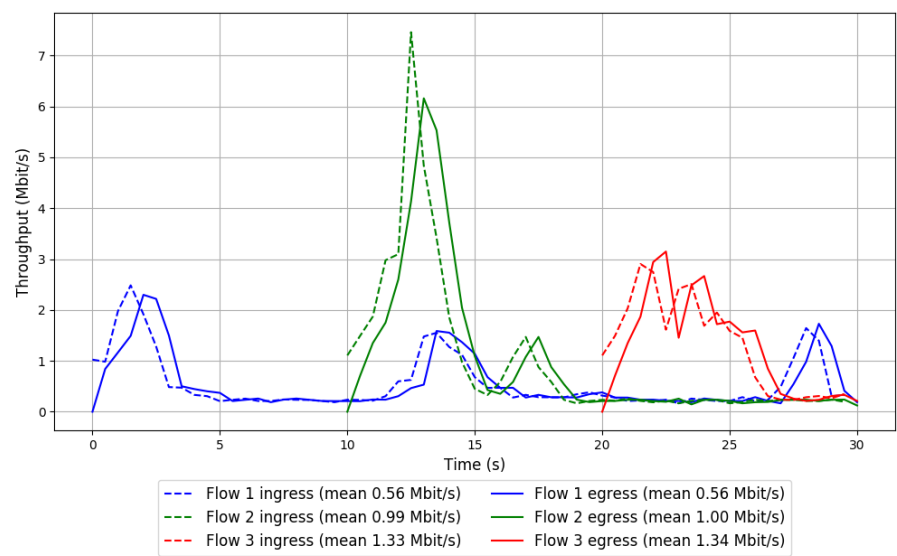


Run 6: Statistics of Sprout

Start at: 2018-06-06 19:30:21
End at: 2018-06-06 19:30:51
Local clock offset: -0.065 ms
Remote clock offset: 0.162 ms

```
# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 63.795 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 63.732 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 61.694 ms
Loss rate: 0.53%
```

Run 6: Report of Sprout — Data Link

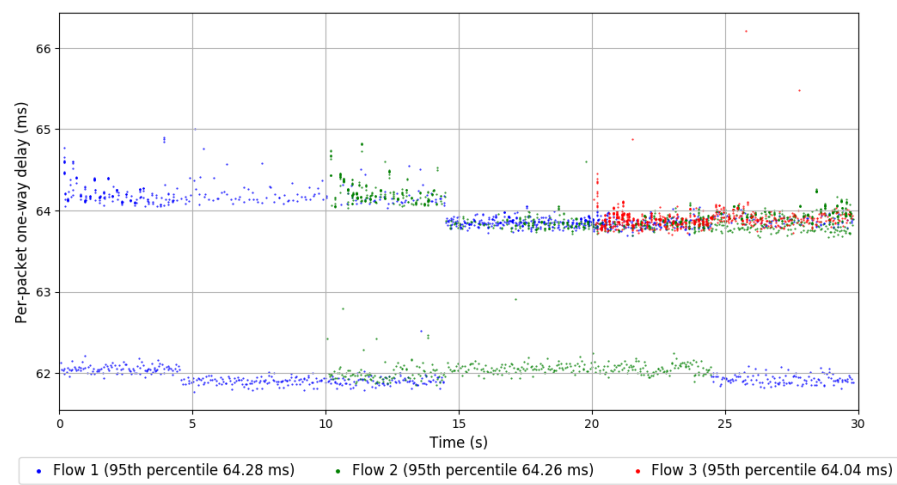
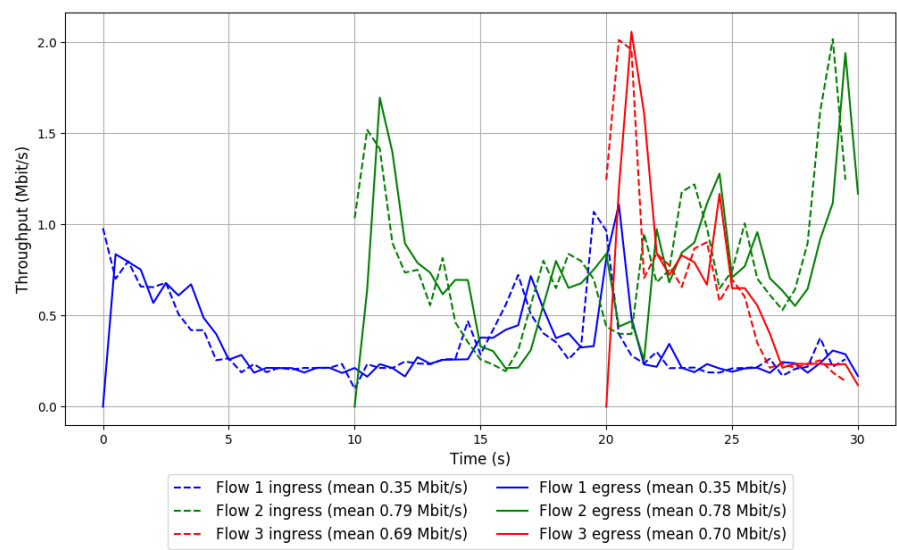


Run 7: Statistics of Sprout

Start at: 2018-06-06 19:53:36
End at: 2018-06-06 19:54:06
Local clock offset: -0.042 ms
Remote clock offset: -0.354 ms

```
# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.10 Mbit/s
95th percentile per-packet one-way delay: 64.254 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 64.282 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 64.263 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 64.044 ms
Loss rate: 0.18%
```

Run 7: Report of Sprout — Data Link

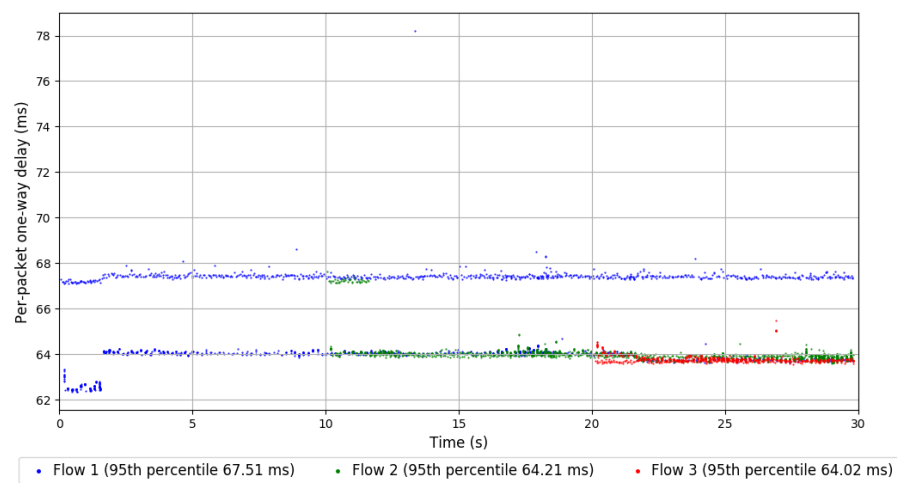
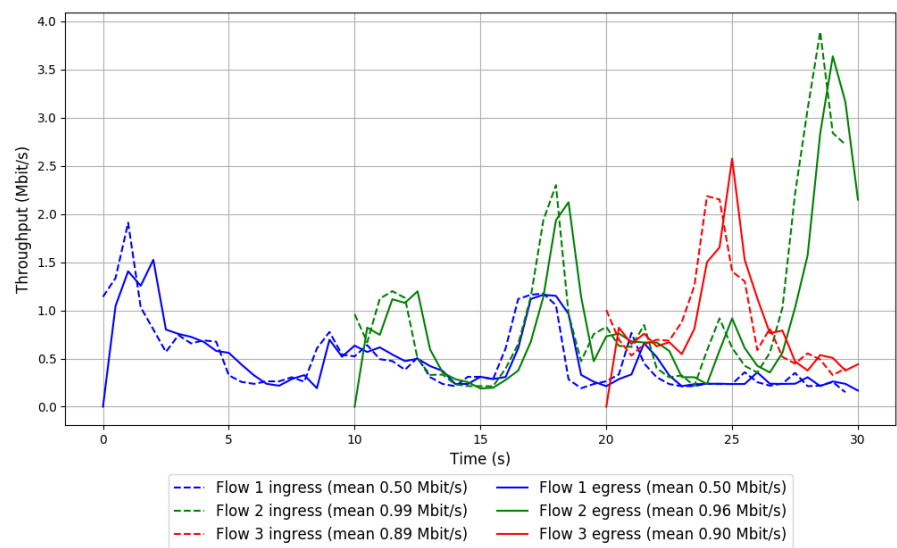


Run 8: Statistics of Sprout

Start at: 2018-06-06 20:16:59
End at: 2018-06-06 20:17:29
Local clock offset: -0.011 ms
Remote clock offset: -0.397 ms

```
# Below is generated by plot.py at 2018-06-06 23:22:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 67.451 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 67.514 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 64.211 ms
Loss rate: 3.56%
-- Flow 3:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 64.023 ms
Loss rate: 0.28%
```

Run 8: Report of Sprout — Data Link

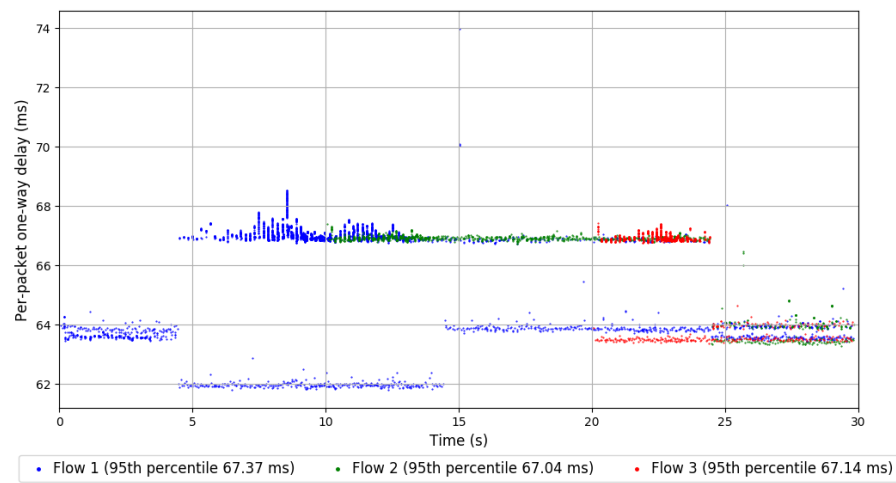
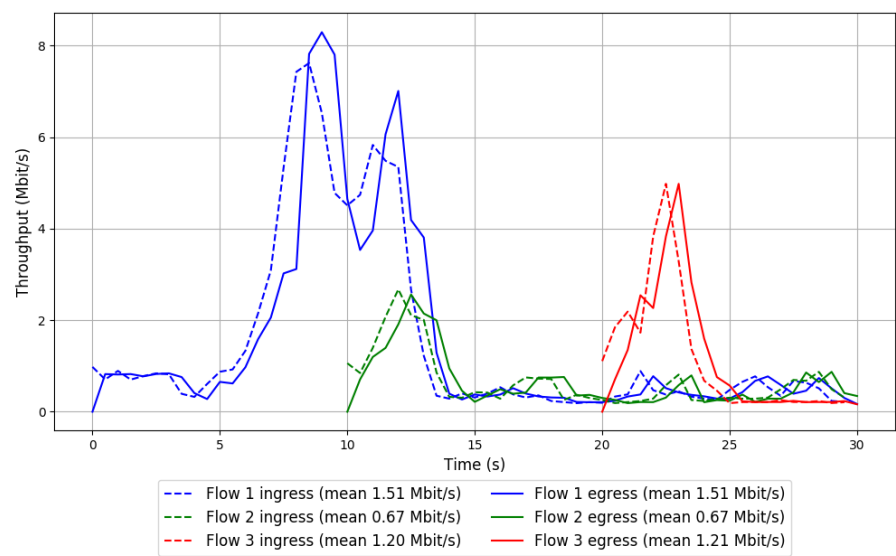


Run 9: Statistics of Sprout

Start at: 2018-06-06 20:40:26
End at: 2018-06-06 20:40:56
Local clock offset: 0.029 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-06-06 23:22:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 67.295 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 67.367 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 67.036 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 67.137 ms
Loss rate: 0.20%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-06 21:03:22

End at: 2018-06-06 21:03:52

Local clock offset: 0.087 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-06 23:22:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 66.705 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 66.724 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 66.681 ms

Loss rate: 0.15%

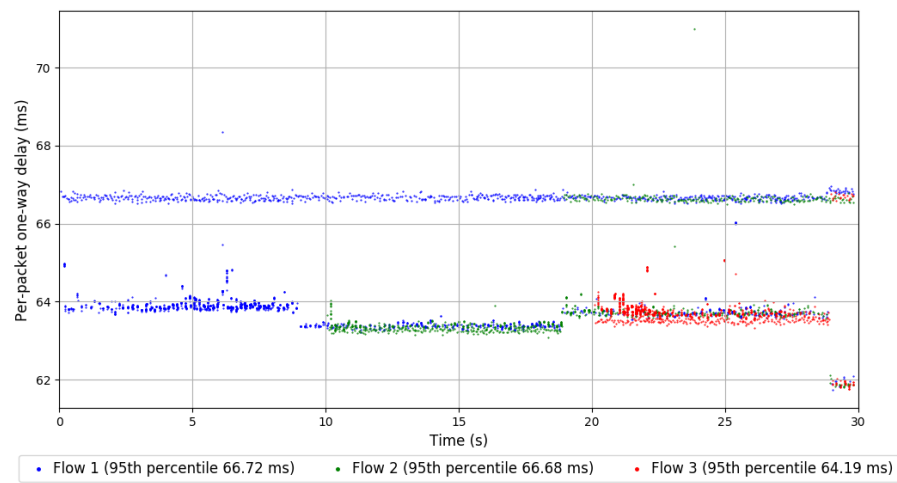
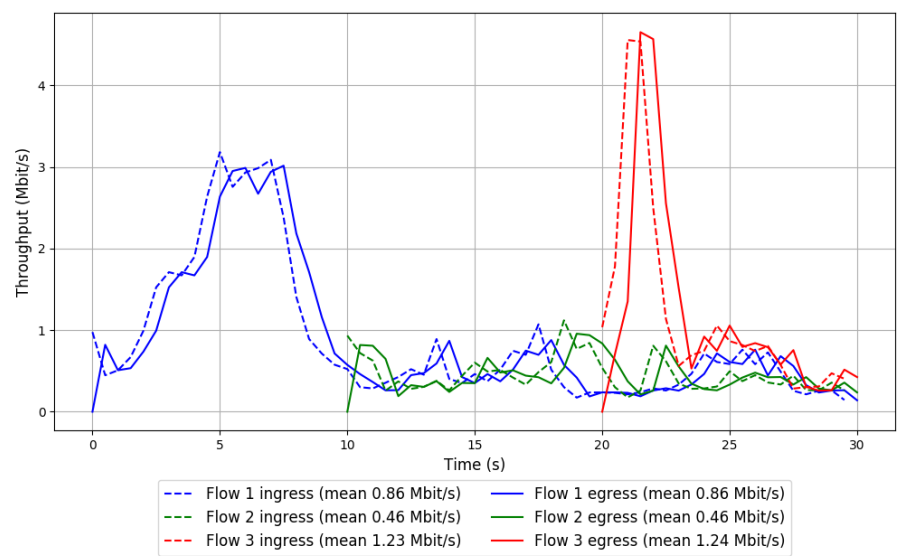
-- Flow 3:

Average throughput: 1.24 Mbit/s

95th percentile per-packet one-way delay: 64.187 ms

Loss rate: 0.21%

Run 10: Report of Sprout — Data Link

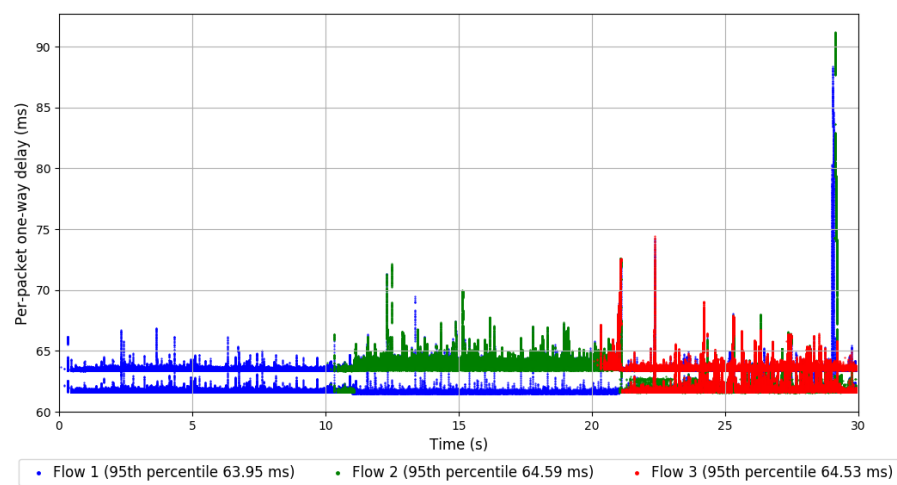
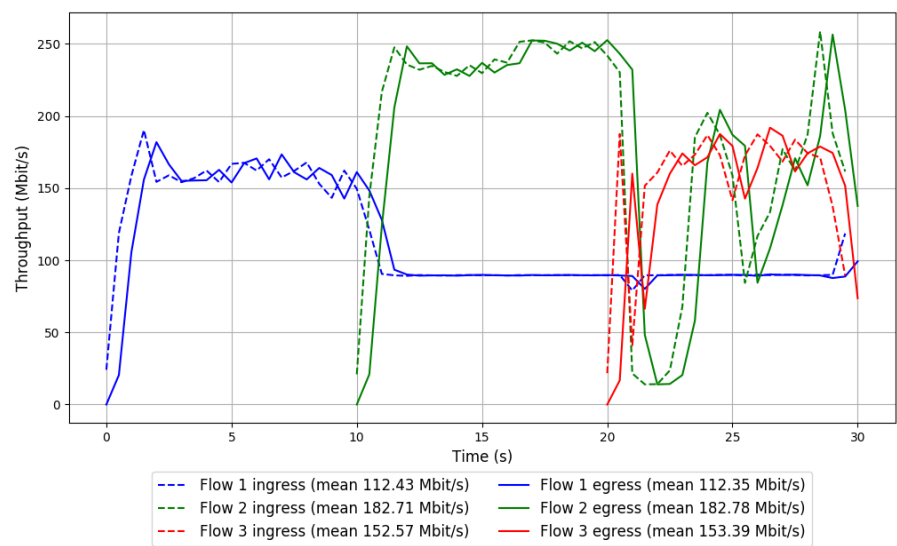


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 17:36:30
End at: 2018-06-06 17:37:00
Local clock offset: -0.006 ms
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-06-06 23:28:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 284.41 Mbit/s
95th percentile per-packet one-way delay: 64.289 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 112.35 Mbit/s
95th percentile per-packet one-way delay: 63.950 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 182.78 Mbit/s
95th percentile per-packet one-way delay: 64.586 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 153.39 Mbit/s
95th percentile per-packet one-way delay: 64.528 ms
Loss rate: 0.76%
```

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

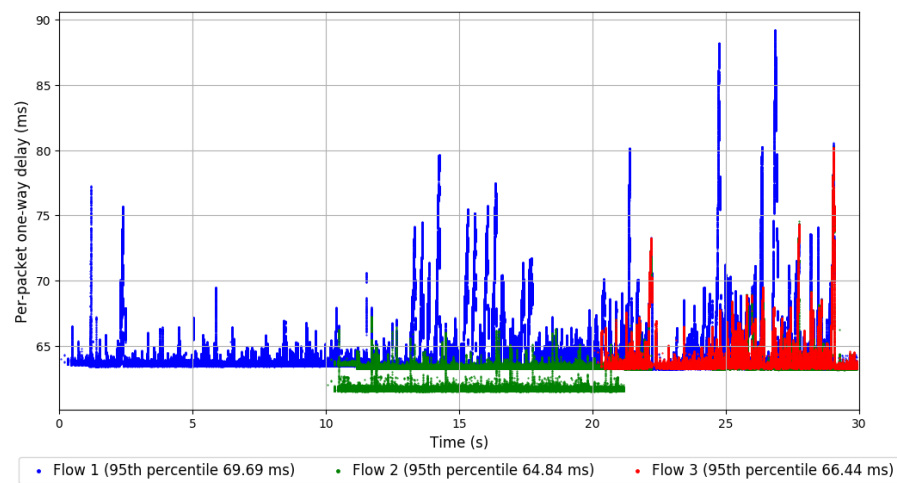
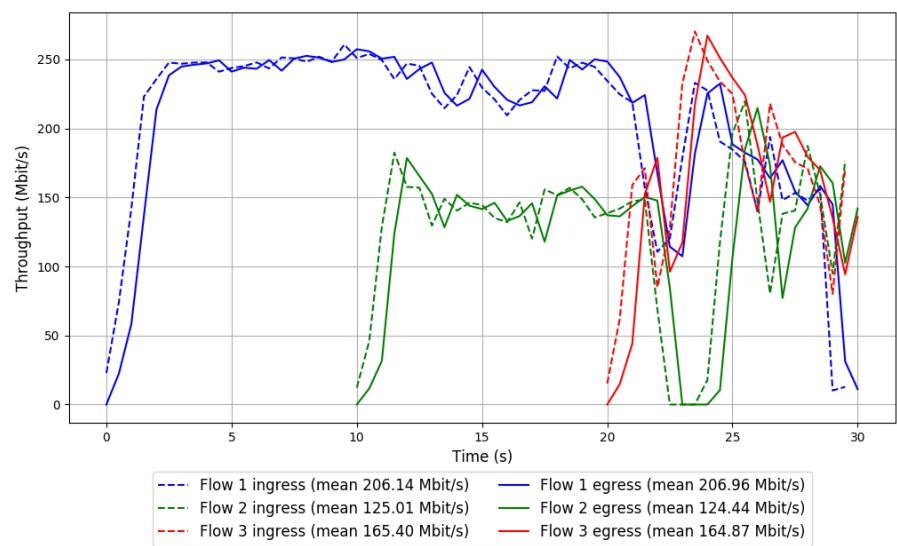


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 17:59:39
End at: 2018-06-06 18:00:09
Local clock offset: -0.084 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-06-06 23:31:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.98 Mbit/s
95th percentile per-packet one-way delay: 68.359 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 206.96 Mbit/s
95th percentile per-packet one-way delay: 69.686 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 124.44 Mbit/s
95th percentile per-packet one-way delay: 64.837 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 164.87 Mbit/s
95th percentile per-packet one-way delay: 66.443 ms
Loss rate: 1.61%

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

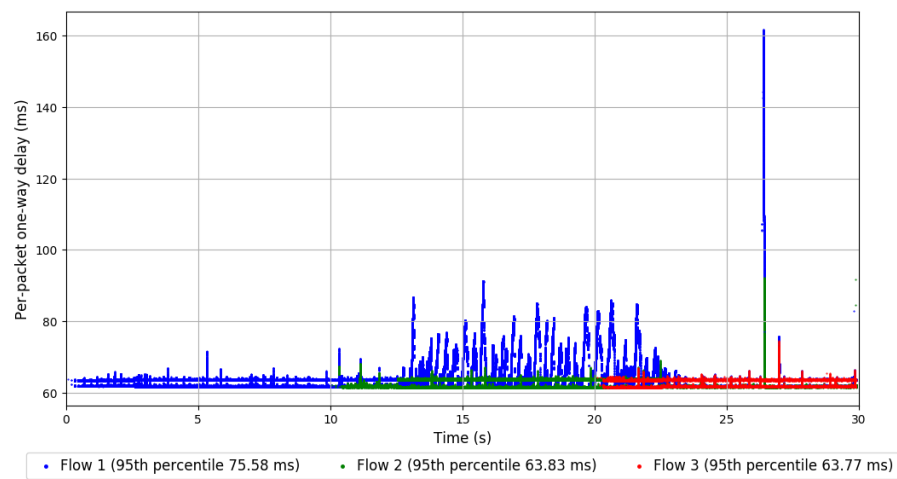
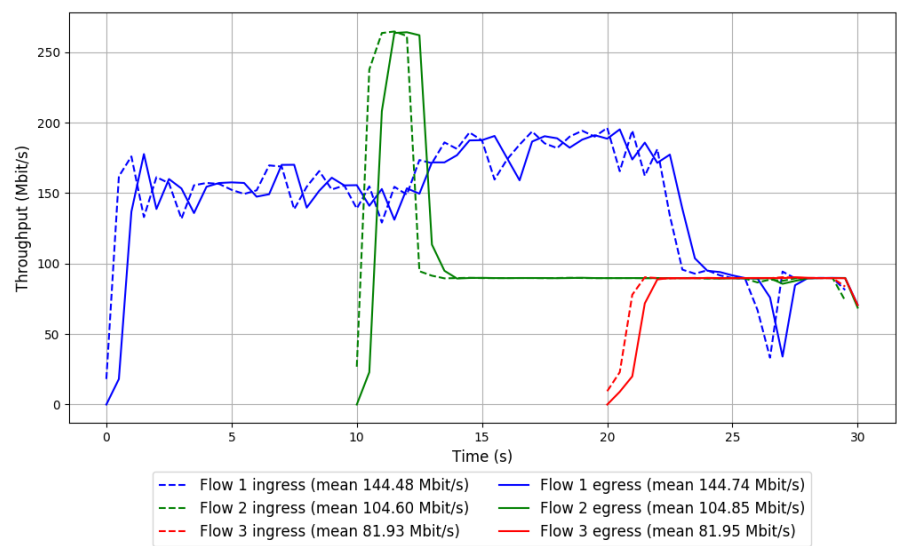


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 18:23:18
End at: 2018-06-06 18:23:48
Local clock offset: -0.01 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-06-06 23:31:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 241.36 Mbit/s
95th percentile per-packet one-way delay: 72.339 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 144.74 Mbit/s
95th percentile per-packet one-way delay: 75.584 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 104.85 Mbit/s
95th percentile per-packet one-way delay: 63.829 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 81.95 Mbit/s
95th percentile per-packet one-way delay: 63.773 ms
Loss rate: 1.49%

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

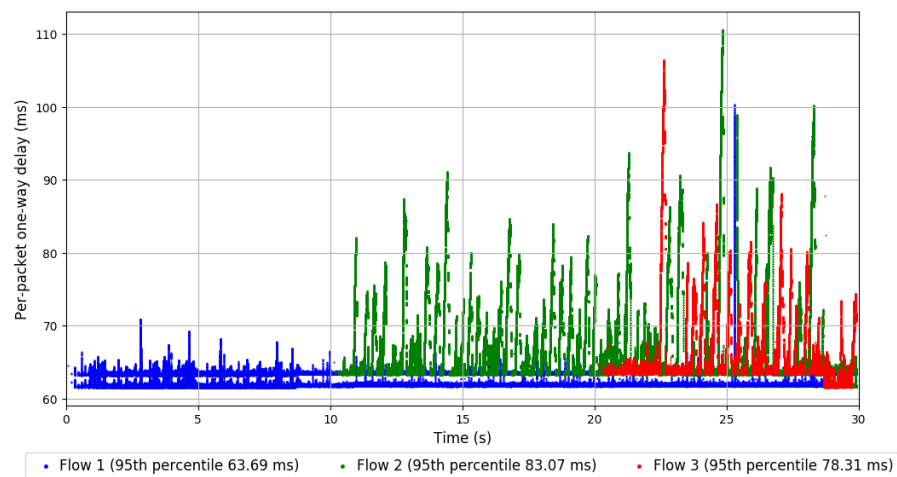
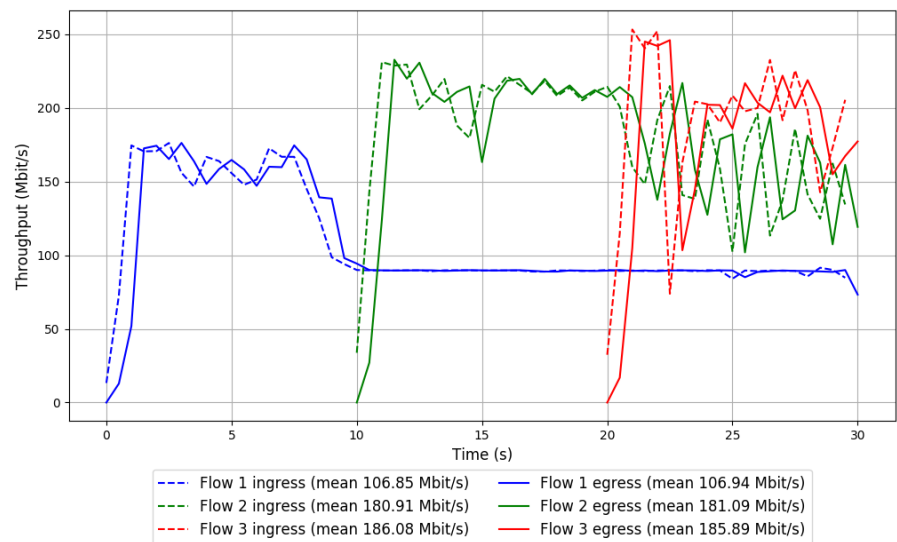


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 18:46:22
End at: 2018-06-06 18:46:52
Local clock offset: -0.049 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-06-06 23:31:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 288.46 Mbit/s
95th percentile per-packet one-way delay: 77.841 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 106.94 Mbit/s
95th percentile per-packet one-way delay: 63.685 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 181.09 Mbit/s
95th percentile per-packet one-way delay: 83.073 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 185.89 Mbit/s
95th percentile per-packet one-way delay: 78.306 ms
Loss rate: 1.39%

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

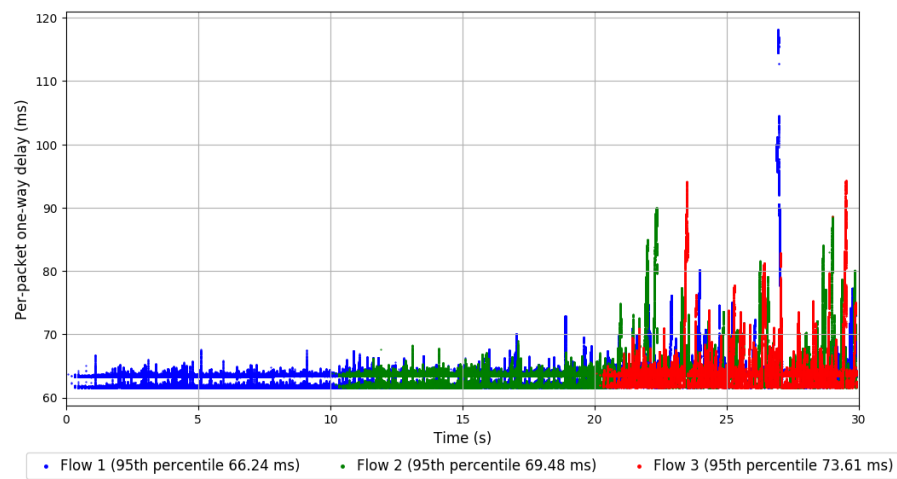
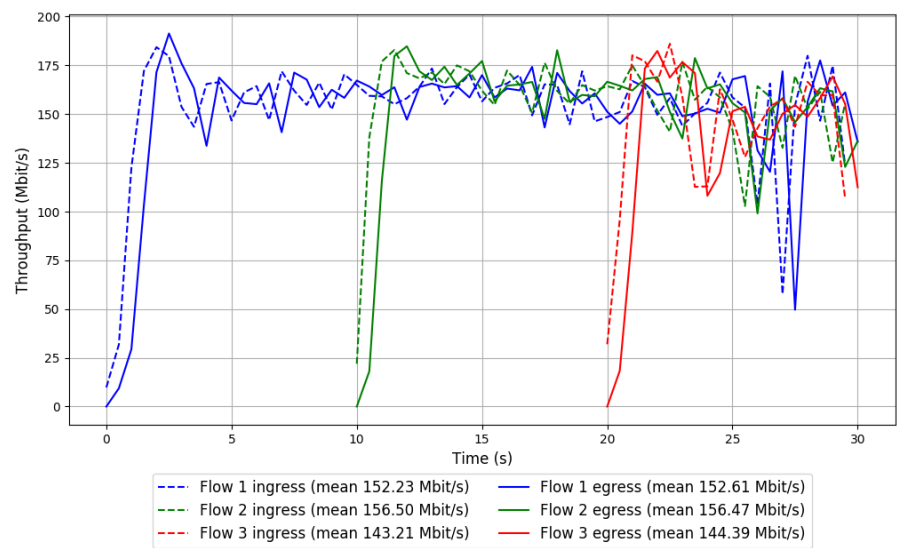


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 19:09:43
End at: 2018-06-06 19:10:13
Local clock offset: -0.014 ms
Remote clock offset: -0.152 ms

Below is generated by plot.py at 2018-06-06 23:31:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 304.13 Mbit/s
95th percentile per-packet one-way delay: 68.670 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 152.61 Mbit/s
95th percentile per-packet one-way delay: 66.237 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 156.47 Mbit/s
95th percentile per-packet one-way delay: 69.476 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 144.39 Mbit/s
95th percentile per-packet one-way delay: 73.612 ms
Loss rate: 0.49%

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

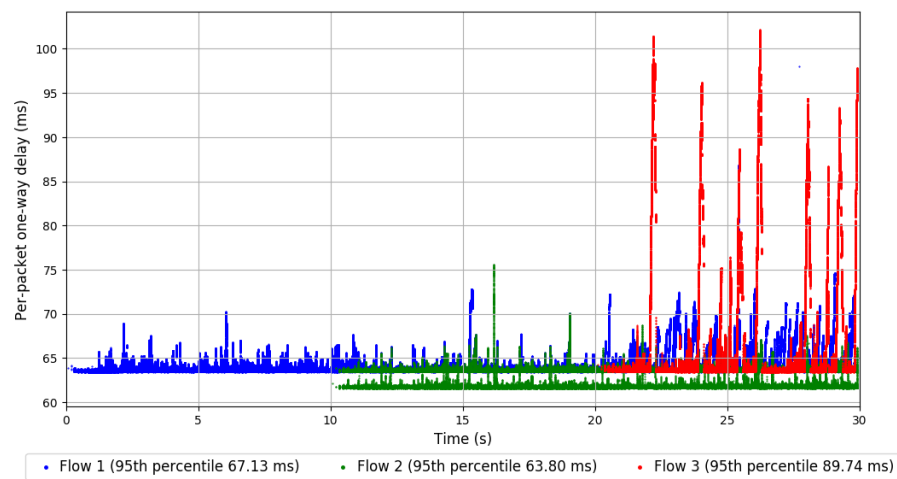
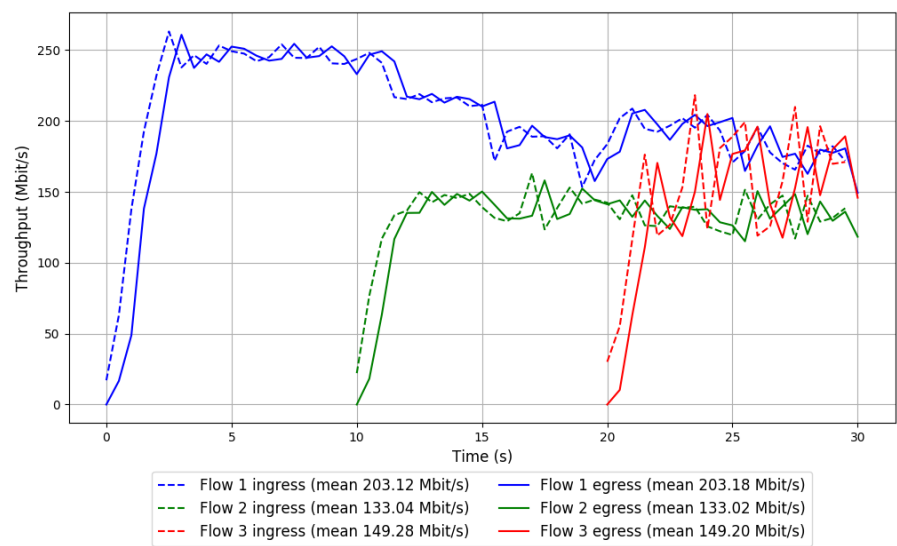


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 19:32:58
End at: 2018-06-06 19:33:28
Local clock offset: -0.032 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-06-06 23:32:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.64 Mbit/s
95th percentile per-packet one-way delay: 68.353 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 203.18 Mbit/s
95th percentile per-packet one-way delay: 67.126 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 133.02 Mbit/s
95th percentile per-packet one-way delay: 63.803 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 149.20 Mbit/s
95th percentile per-packet one-way delay: 89.736 ms
Loss rate: 1.35%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 19:56:12

End at: 2018-06-06 19:56:42

Local clock offset: -0.014 ms

Remote clock offset: 0.105 ms

Below is generated by plot.py at 2018-06-06 23:32:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.13 Mbit/s

95th percentile per-packet one-way delay: 65.580 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 135.81 Mbit/s

95th percentile per-packet one-way delay: 67.288 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 160.05 Mbit/s

95th percentile per-packet one-way delay: 64.985 ms

Loss rate: 0.54%

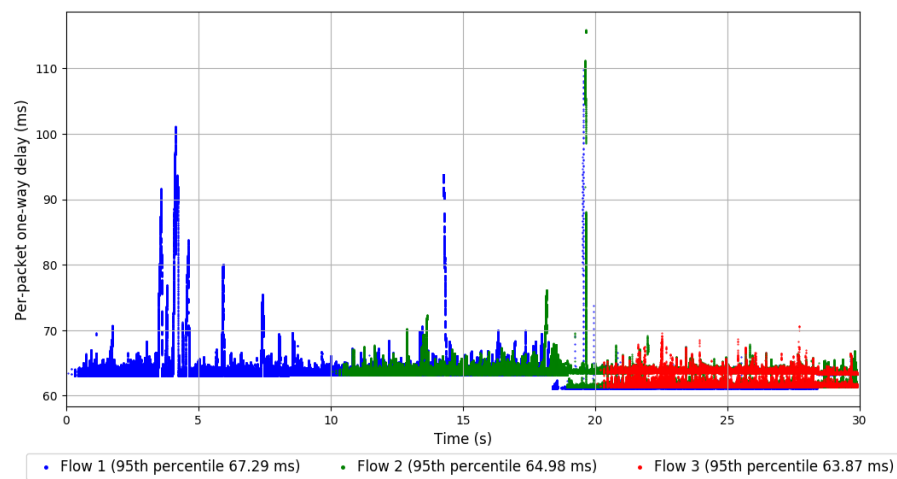
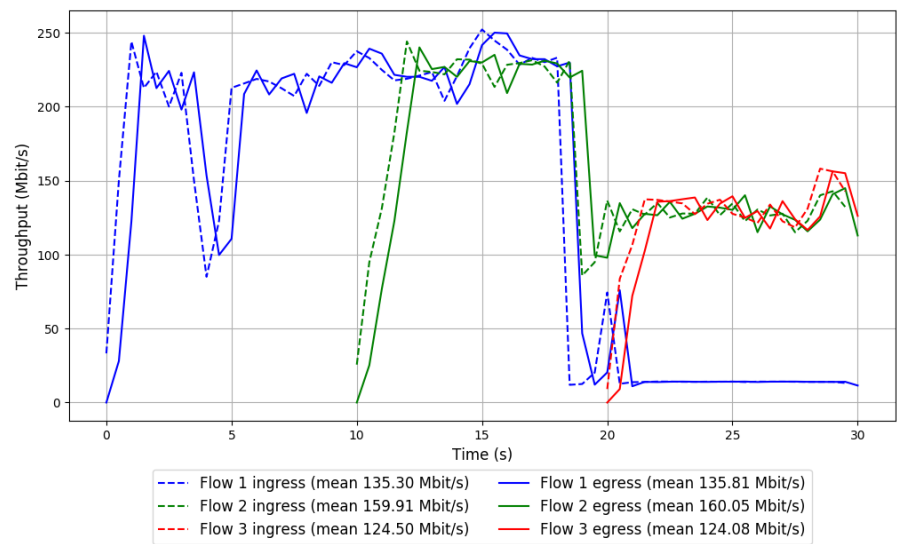
-- Flow 3:

Average throughput: 124.08 Mbit/s

95th percentile per-packet one-way delay: 63.873 ms

Loss rate: 1.58%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 20:19:35

End at: 2018-06-06 20:20:05

Local clock offset: 0.011 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-06 23:32:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.89 Mbit/s

95th percentile per-packet one-way delay: 68.092 ms

Loss rate: 0.62%

-- Flow 1:

Average throughput: 205.75 Mbit/s

95th percentile per-packet one-way delay: 68.491 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 43.82 Mbit/s

95th percentile per-packet one-way delay: 66.877 ms

Loss rate: 1.31%

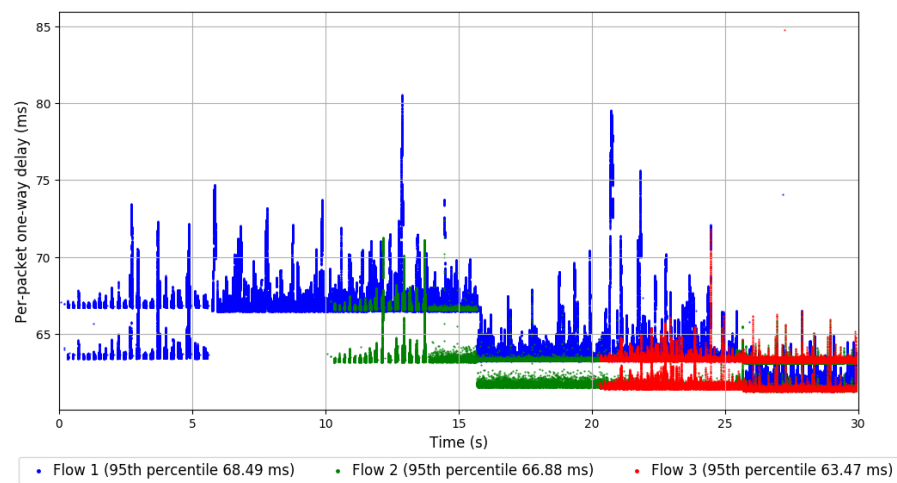
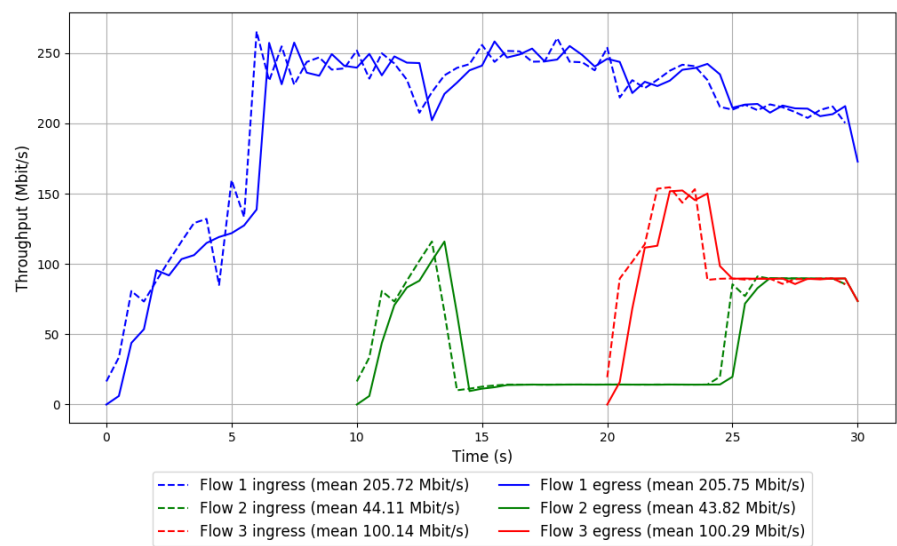
-- Flow 3:

Average throughput: 100.29 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 1.15%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 20:43:04

End at: 2018-06-06 20:43:34

Local clock offset: 0.05 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-06 23:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 213.37 Mbit/s

95th percentile per-packet one-way delay: 68.420 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 71.83 Mbit/s

95th percentile per-packet one-way delay: 68.409 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 208.11 Mbit/s

95th percentile per-packet one-way delay: 68.548 ms

Loss rate: 0.46%

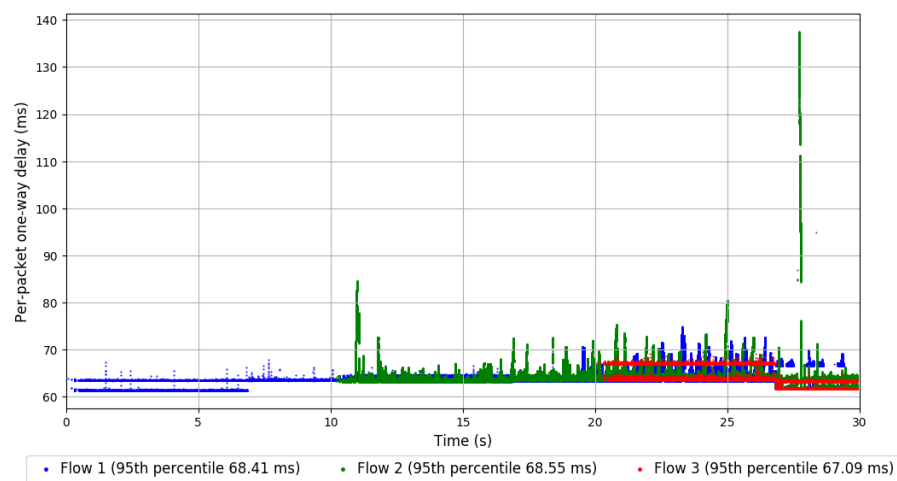
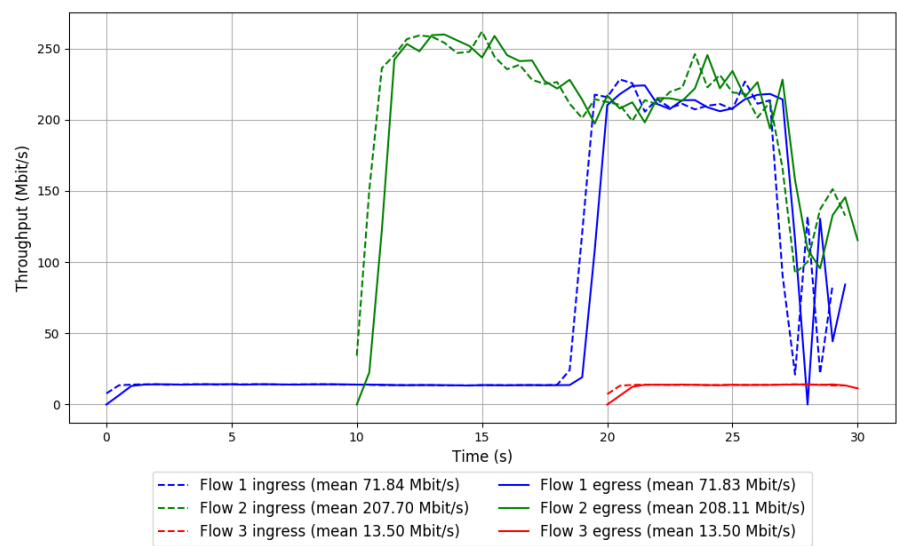
-- Flow 3:

Average throughput: 13.50 Mbit/s

95th percentile per-packet one-way delay: 67.086 ms

Loss rate: 1.37%

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

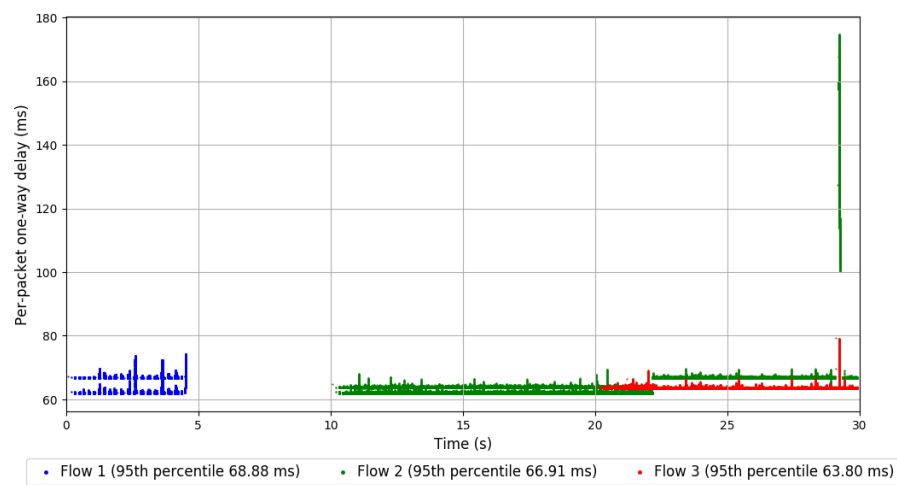
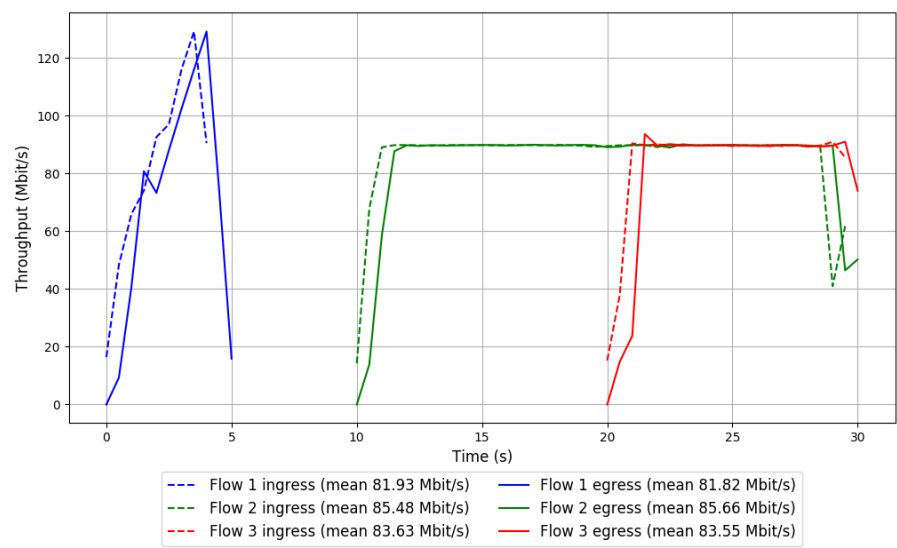


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 21:05:58
End at: 2018-06-06 21:06:28
Local clock offset: 0.096 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-06-06 23:36:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 96.59 Mbit/s
95th percentile per-packet one-way delay: 66.928 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 81.82 Mbit/s
95th percentile per-packet one-way delay: 68.882 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 85.66 Mbit/s
95th percentile per-packet one-way delay: 66.907 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 63.802 ms
Loss rate: 1.38%

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

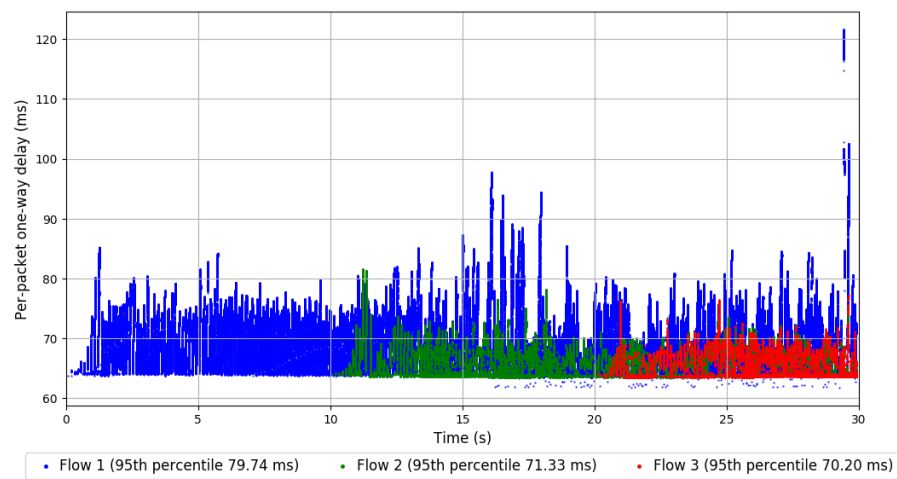
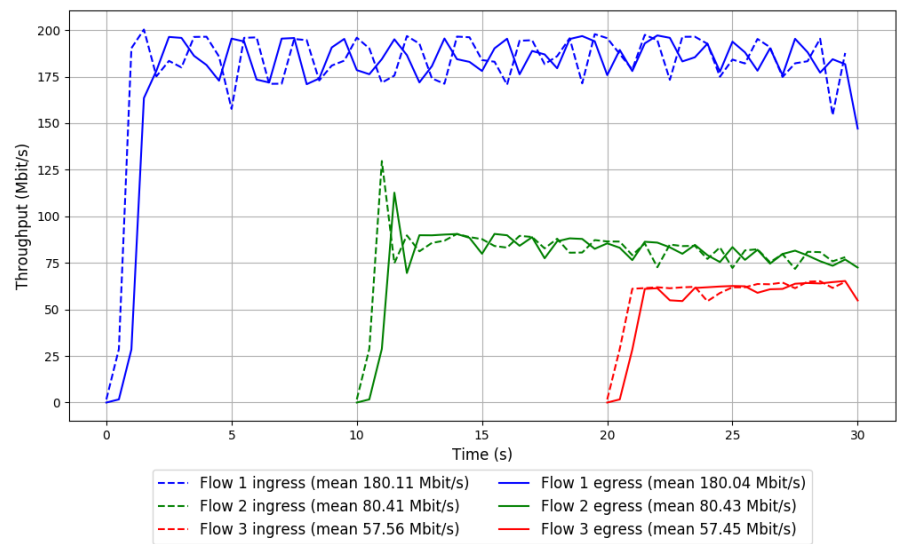


Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 17:39:15
End at: 2018-06-06 17:39:45
Local clock offset: -0.056 ms
Remote clock offset: -0.133 ms

Below is generated by plot.py at 2018-06-06 23:36:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 252.34 Mbit/s
95th percentile per-packet one-way delay: 78.541 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 180.04 Mbit/s
95th percentile per-packet one-way delay: 79.737 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 80.43 Mbit/s
95th percentile per-packet one-way delay: 71.331 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 70.196 ms
Loss rate: 1.45%

Run 1: Report of TCP Vegas — Data Link

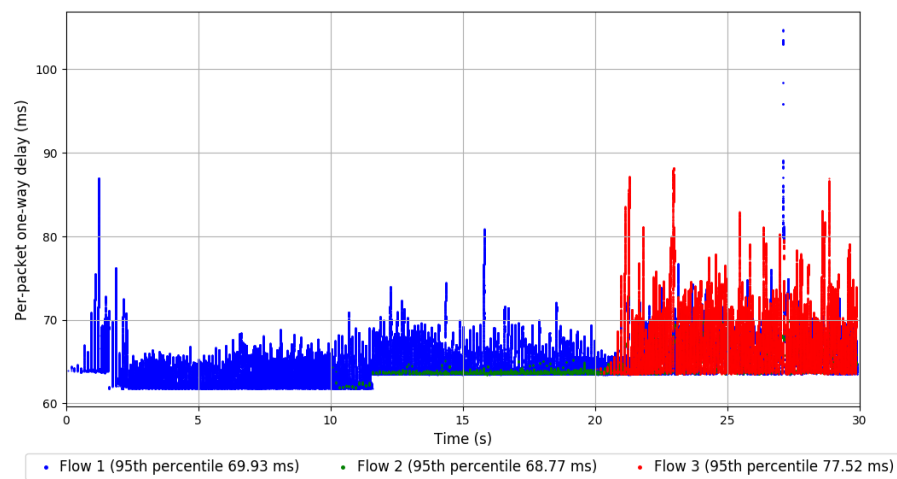
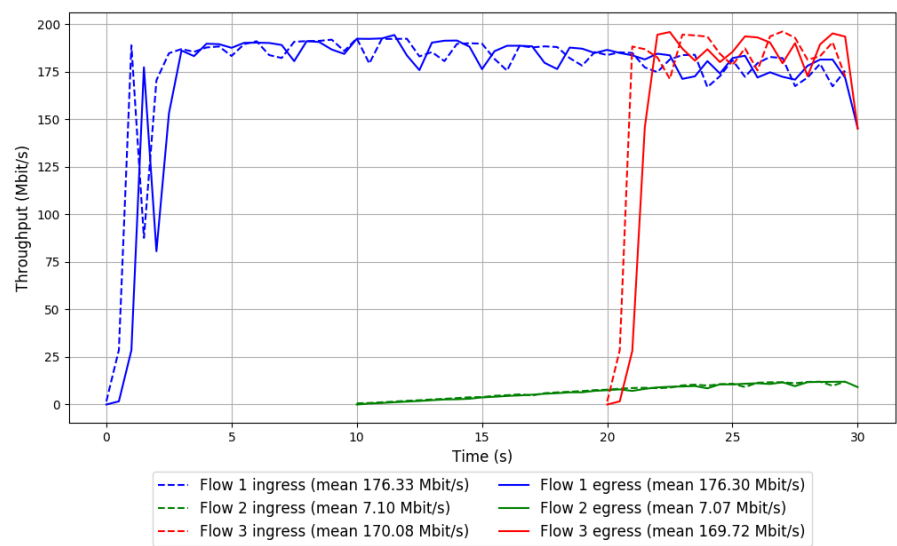


Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 18:02:29
End at: 2018-06-06 18:02:59
Local clock offset: -0.055 ms
Remote clock offset: -0.259 ms

Below is generated by plot.py at 2018-06-06 23:36:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 236.76 Mbit/s
95th percentile per-packet one-way delay: 73.132 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 176.30 Mbit/s
95th percentile per-packet one-way delay: 69.932 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 7.07 Mbit/s
95th percentile per-packet one-way delay: 68.769 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 169.72 Mbit/s
95th percentile per-packet one-way delay: 77.519 ms
Loss rate: 1.44%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 18:25:59

End at: 2018-06-06 18:26:29

Local clock offset: -0.045 ms

Remote clock offset: 0.119 ms

Below is generated by plot.py at 2018-06-06 23:36:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 258.36 Mbit/s

95th percentile per-packet one-way delay: 72.696 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 149.27 Mbit/s

95th percentile per-packet one-way delay: 69.446 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 69.597 ms

Loss rate: 0.63%

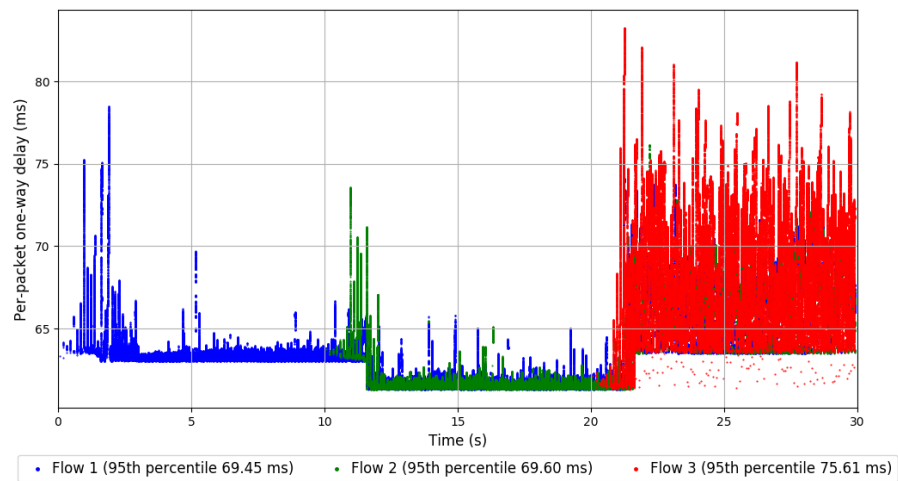
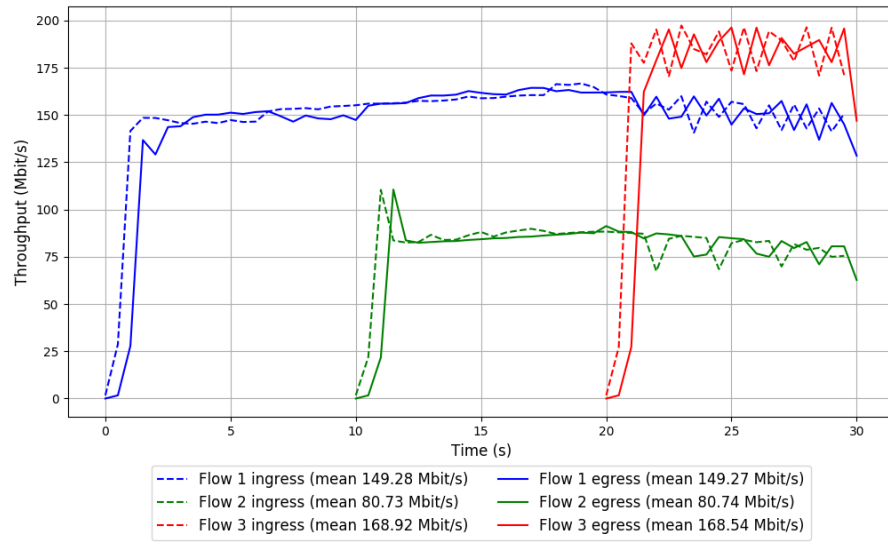
-- Flow 3:

Average throughput: 168.54 Mbit/s

95th percentile per-packet one-way delay: 75.614 ms

Loss rate: 1.45%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 18:49:09

End at: 2018-06-06 18:49:39

Local clock offset: 0.04 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-06 23:37:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.23 Mbit/s

95th percentile per-packet one-way delay: 78.188 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 178.33 Mbit/s

95th percentile per-packet one-way delay: 78.412 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 128.13 Mbit/s

95th percentile per-packet one-way delay: 78.156 ms

Loss rate: 0.37%

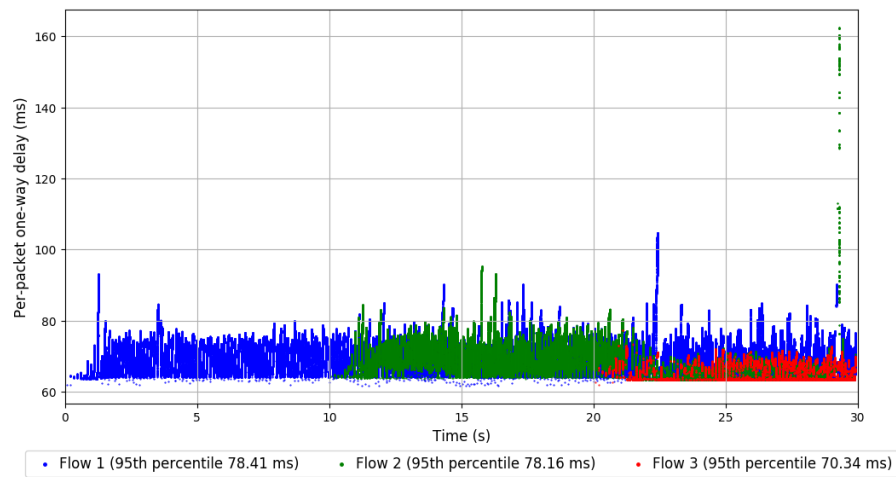
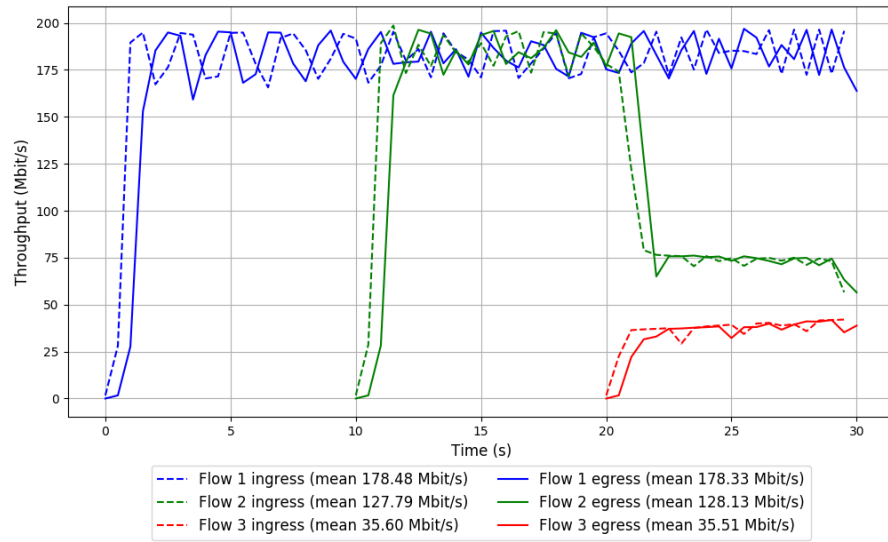
-- Flow 3:

Average throughput: 35.51 Mbit/s

95th percentile per-packet one-way delay: 70.341 ms

Loss rate: 1.51%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 19:12:30

End at: 2018-06-06 19:13:00

Local clock offset: -0.023 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2018-06-06 23:37:10

Datalink statistics

-- Total of 3 flows:

Average throughput: 211.07 Mbit/s

95th percentile per-packet one-way delay: 70.639 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 99.20 Mbit/s

95th percentile per-packet one-way delay: 69.255 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 83.52 Mbit/s

95th percentile per-packet one-way delay: 69.872 ms

Loss rate: 0.66%

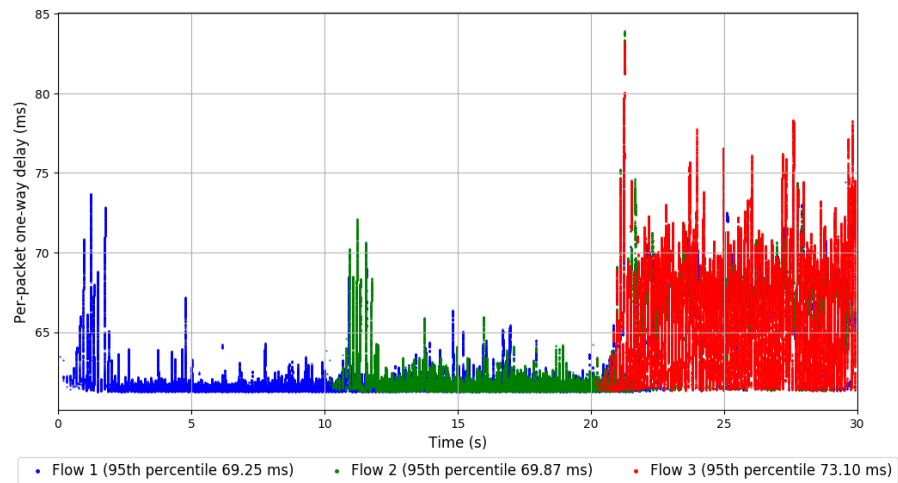
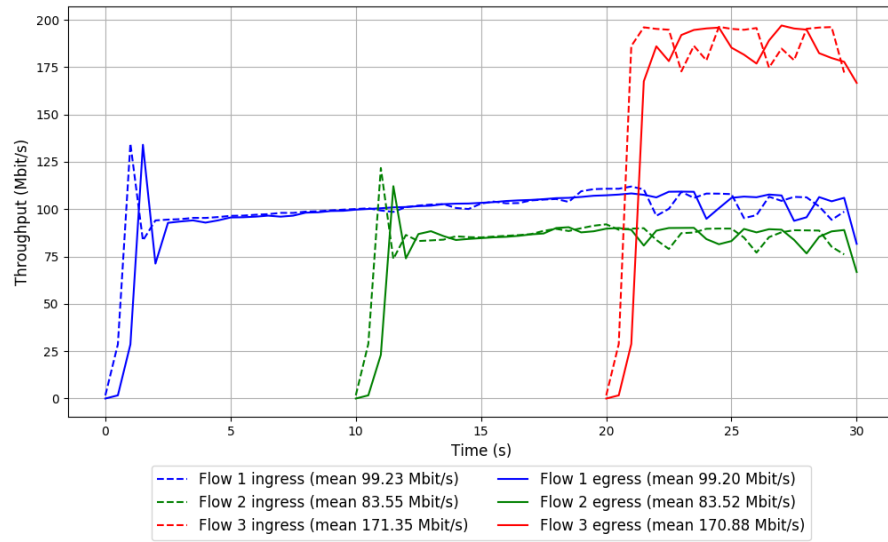
-- Flow 3:

Average throughput: 170.88 Mbit/s

95th percentile per-packet one-way delay: 73.100 ms

Loss rate: 1.54%

Run 5: Report of TCP Vegas — Data Link

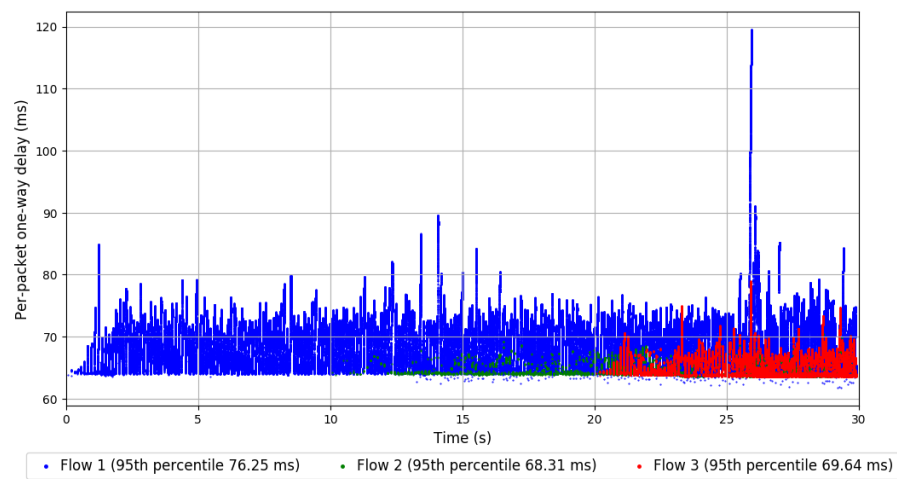
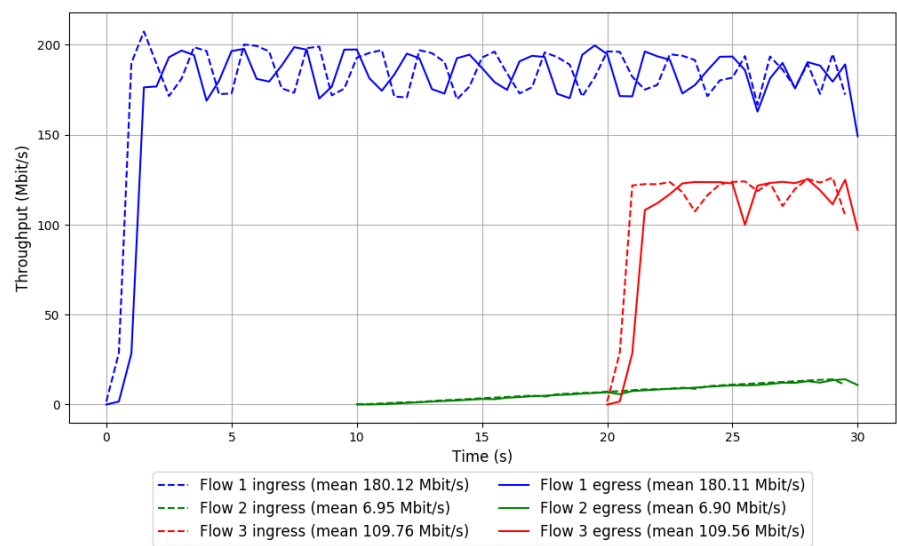


Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 19:35:47
End at: 2018-06-06 19:36:17
Local clock offset: -0.021 ms
Remote clock offset: -0.274 ms

Below is generated by plot.py at 2018-06-06 23:37:10
Datalink statistics
-- Total of 3 flows:
Average throughput: 220.76 Mbit/s
95th percentile per-packet one-way delay: 75.693 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 180.11 Mbit/s
95th percentile per-packet one-way delay: 76.254 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 68.308 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 109.56 Mbit/s
95th percentile per-packet one-way delay: 69.636 ms
Loss rate: 1.46%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 19:58:57

End at: 2018-06-06 19:59:27

Local clock offset: -0.027 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-06 23:38:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 306.10 Mbit/s

95th percentile per-packet one-way delay: 76.706 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 183.04 Mbit/s

95th percentile per-packet one-way delay: 76.422 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 180.46 Mbit/s

95th percentile per-packet one-way delay: 77.218 ms

Loss rate: 0.74%

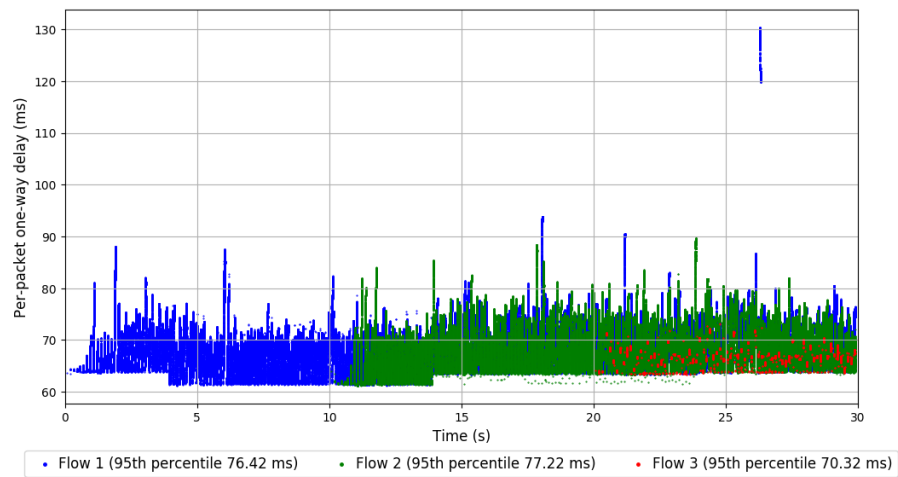
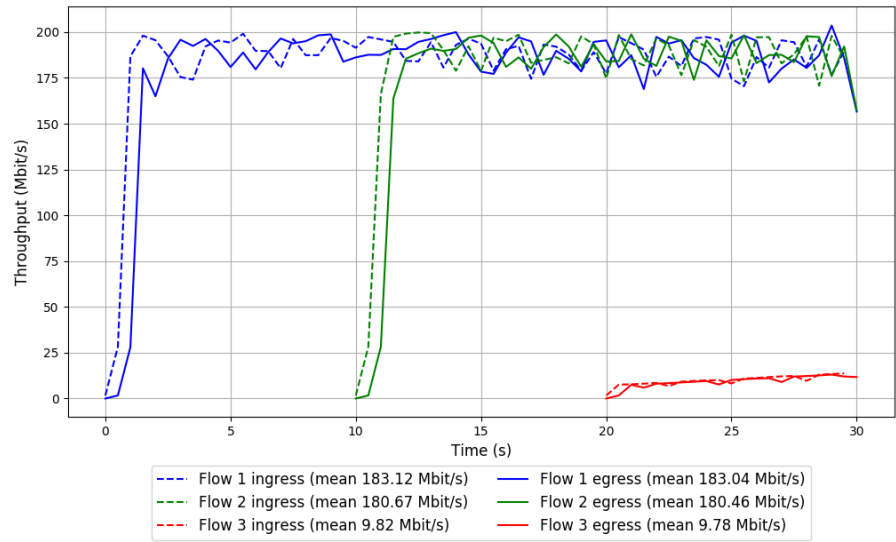
-- Flow 3:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 70.323 ms

Loss rate: 1.77%

Run 7: Report of TCP Vegas — Data Link

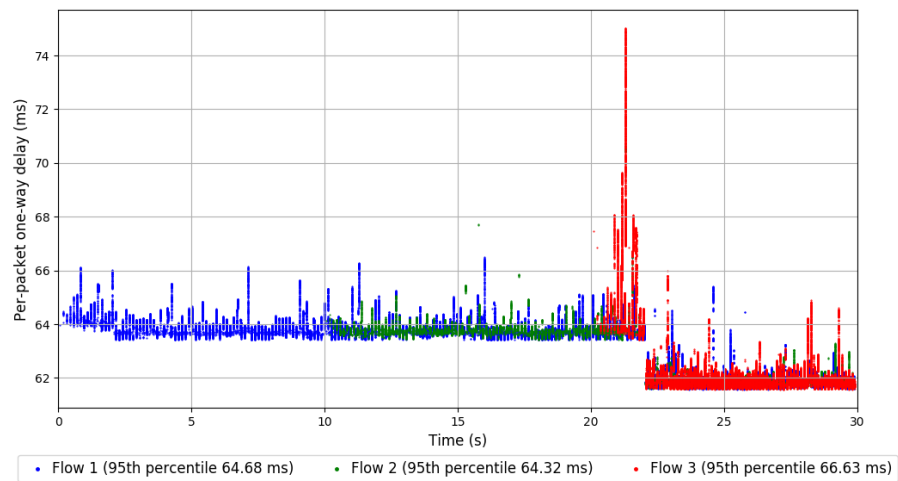
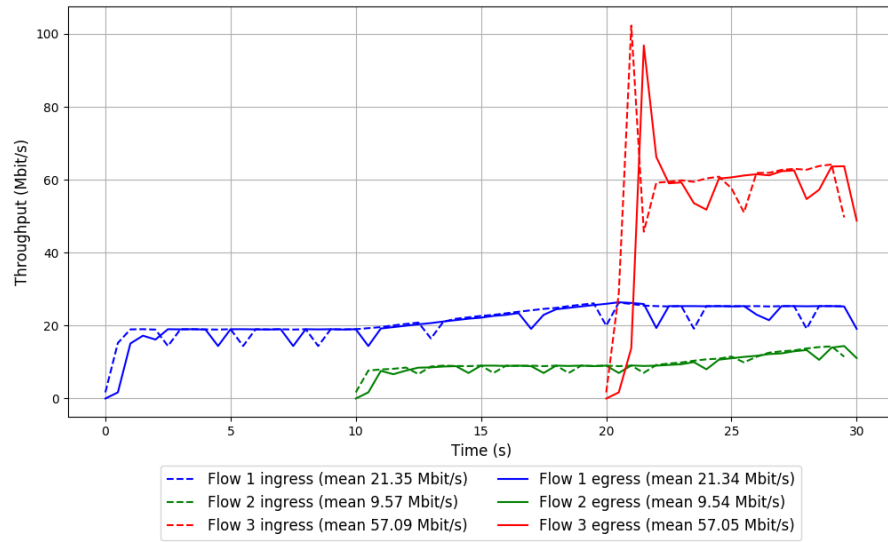


Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 20:22:19
End at: 2018-06-06 20:22:49
Local clock offset: 0.014 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-06-06 23:38:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.44 Mbit/s
95th percentile per-packet one-way delay: 64.987 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 21.34 Mbit/s
95th percentile per-packet one-way delay: 64.684 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 9.54 Mbit/s
95th percentile per-packet one-way delay: 64.323 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 57.05 Mbit/s
95th percentile per-packet one-way delay: 66.627 ms
Loss rate: 1.42%

Run 8: Report of TCP Vegas — Data Link

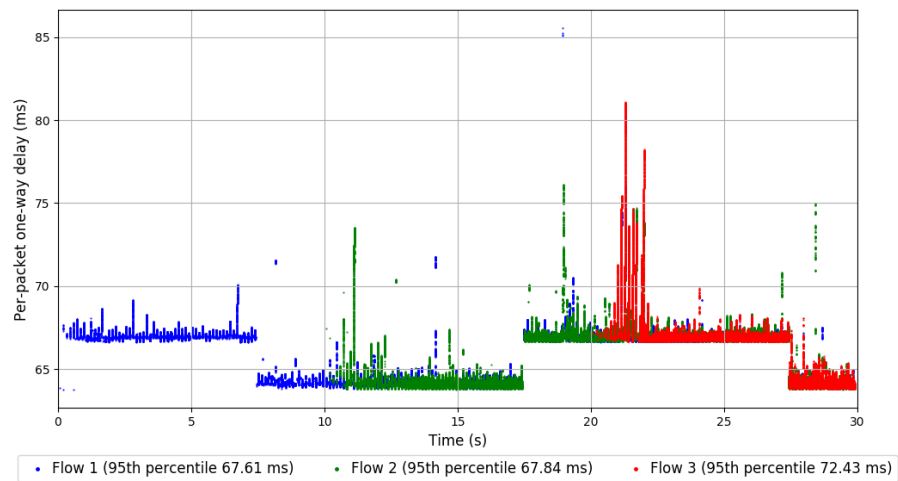
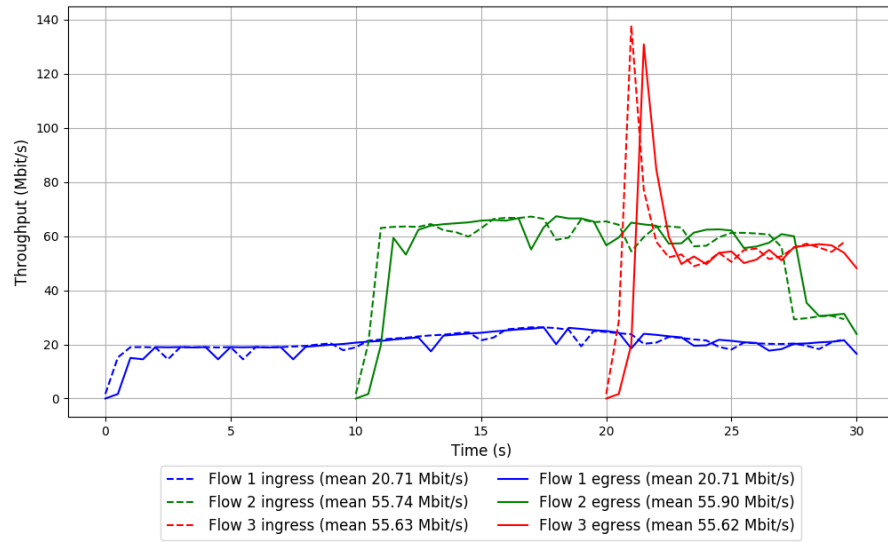


Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 20:45:43
End at: 2018-06-06 20:46:13
Local clock offset: 0.074 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-06-06 23:38:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.14 Mbit/s
95th percentile per-packet one-way delay: 68.846 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 20.71 Mbit/s
95th percentile per-packet one-way delay: 67.605 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 55.90 Mbit/s
95th percentile per-packet one-way delay: 67.845 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 55.62 Mbit/s
95th percentile per-packet one-way delay: 72.429 ms
Loss rate: 1.32%

Run 9: Report of TCP Vegas — Data Link

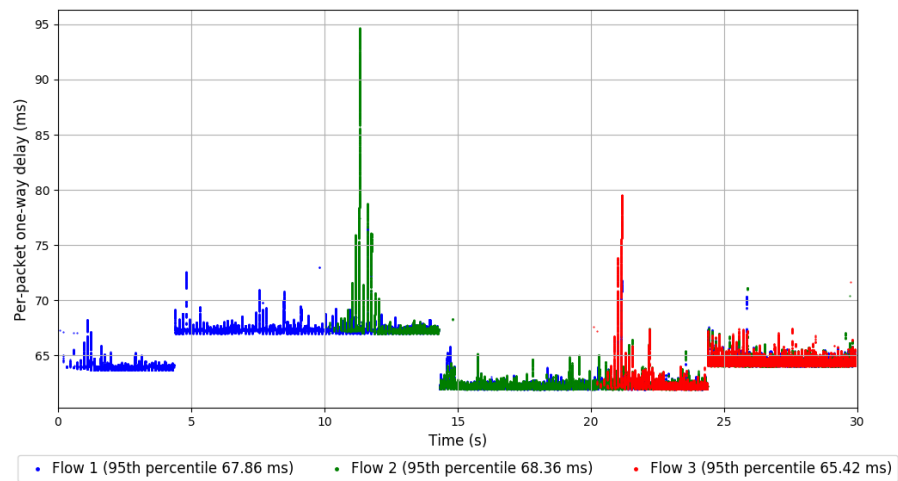
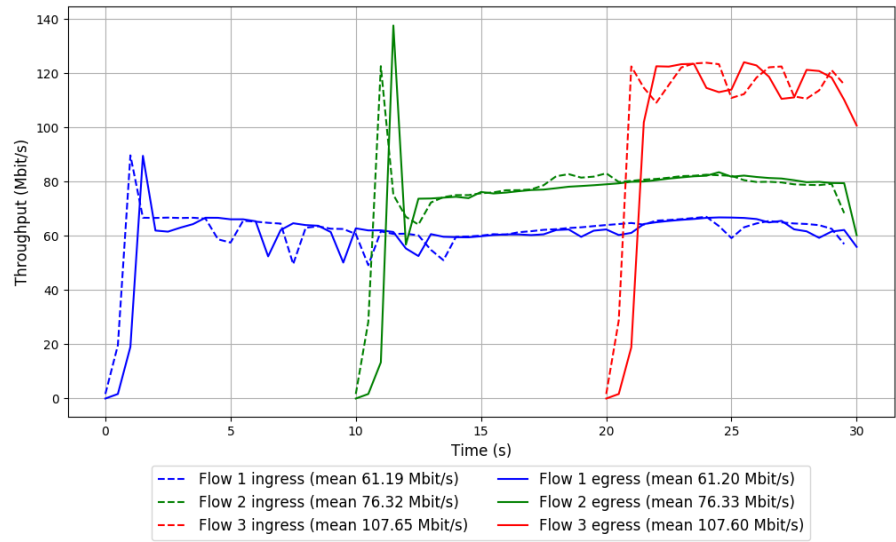


Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 21:08:26
End at: 2018-06-06 21:08:56
Local clock offset: 0.087 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2018-06-06 23:38:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 147.37 Mbit/s
95th percentile per-packet one-way delay: 67.724 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 61.20 Mbit/s
95th percentile per-packet one-way delay: 67.864 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 76.33 Mbit/s
95th percentile per-packet one-way delay: 68.364 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 107.60 Mbit/s
95th percentile per-packet one-way delay: 65.424 ms
Loss rate: 1.40%

Run 10: Report of TCP Vegas — Data Link

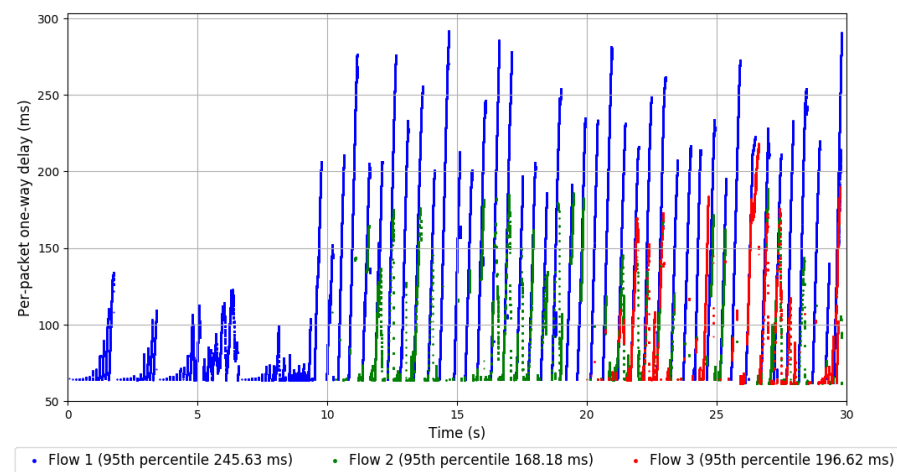
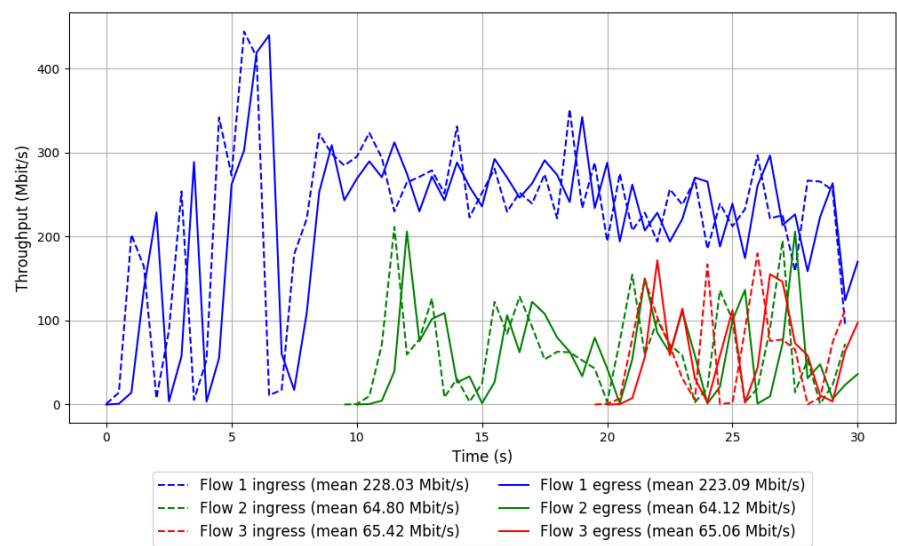


Run 1: Statistics of Verus

Start at: 2018-06-06 17:32:25
End at: 2018-06-06 17:32:55
Local clock offset: -0.048 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-06-06 23:41:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.08 Mbit/s
95th percentile per-packet one-way delay: 240.228 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 223.09 Mbit/s
95th percentile per-packet one-way delay: 245.630 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 64.12 Mbit/s
95th percentile per-packet one-way delay: 168.177 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 65.06 Mbit/s
95th percentile per-packet one-way delay: 196.624 ms
Loss rate: 2.41%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-06 17:55:31

End at: 2018-06-06 17:56:01

Local clock offset: -0.07 ms

Remote clock offset: -0.0 ms

Below is generated by plot.py at 2018-06-06 23:42:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 337.03 Mbit/s

95th percentile per-packet one-way delay: 181.536 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 208.20 Mbit/s

95th percentile per-packet one-way delay: 163.603 ms

Loss rate: 1.10%

-- Flow 2:

Average throughput: 165.25 Mbit/s

95th percentile per-packet one-way delay: 189.433 ms

Loss rate: 0.63%

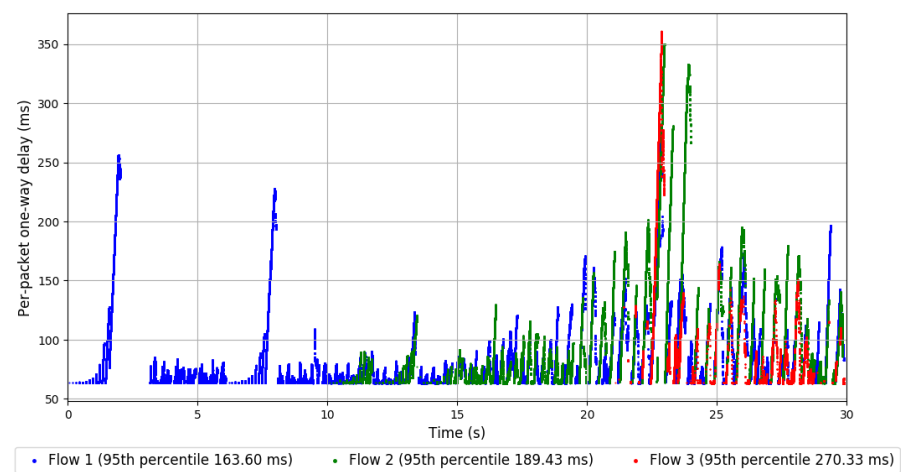
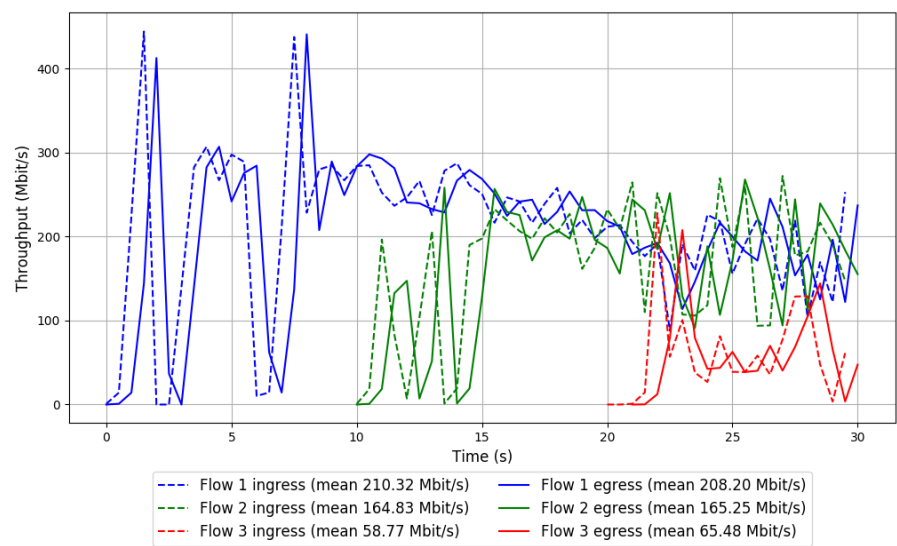
-- Flow 3:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 270.335 ms

Loss rate: 1.25%

Run 2: Report of Verus — Data Link

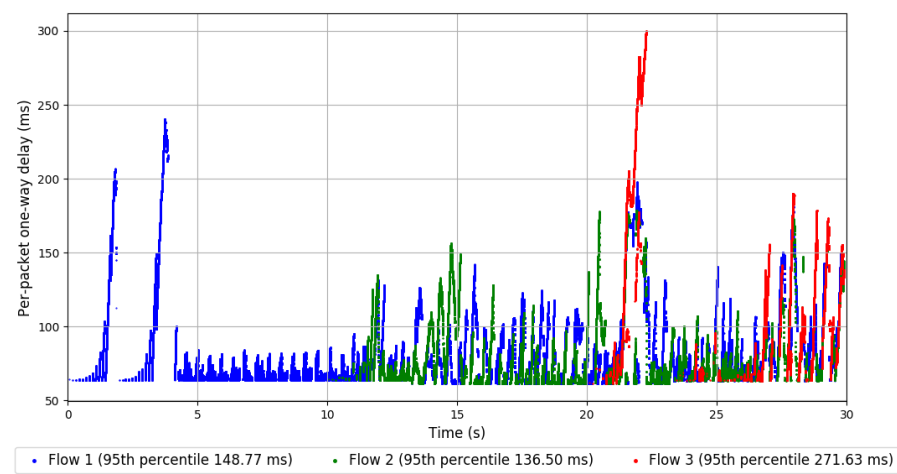
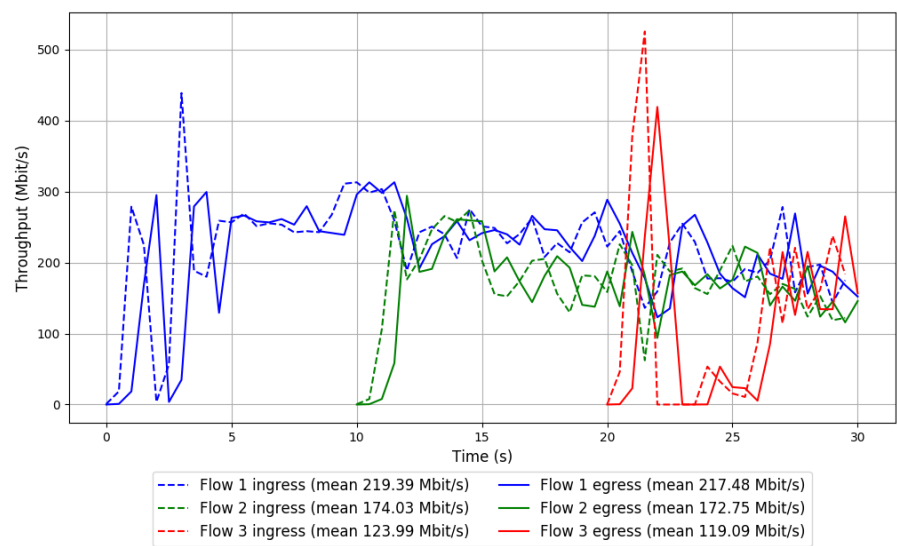


Run 3: Statistics of Verus

Start at: 2018-06-06 18:19:07
End at: 2018-06-06 18:19:37
Local clock offset: 0.006 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-06-06 23:43:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 370.73 Mbit/s
95th percentile per-packet one-way delay: 174.462 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 217.48 Mbit/s
95th percentile per-packet one-way delay: 148.771 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 172.75 Mbit/s
95th percentile per-packet one-way delay: 136.503 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 119.09 Mbit/s
95th percentile per-packet one-way delay: 271.631 ms
Loss rate: 3.69%

Run 3: Report of Verus — Data Link

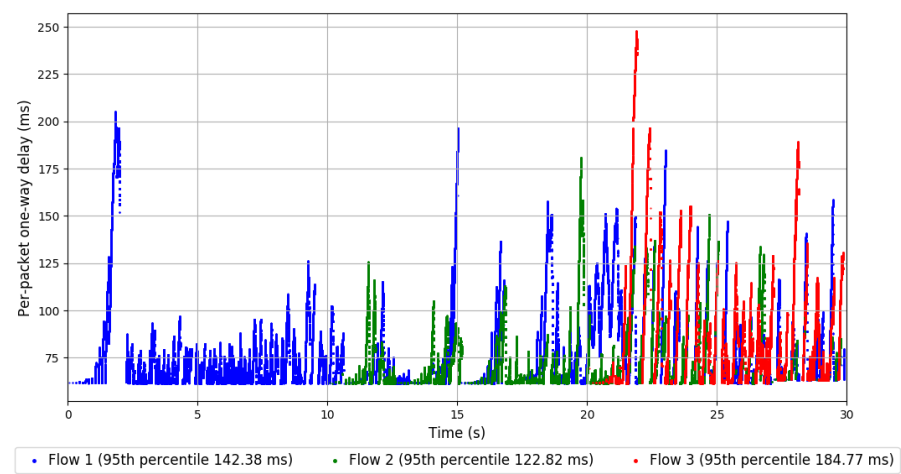
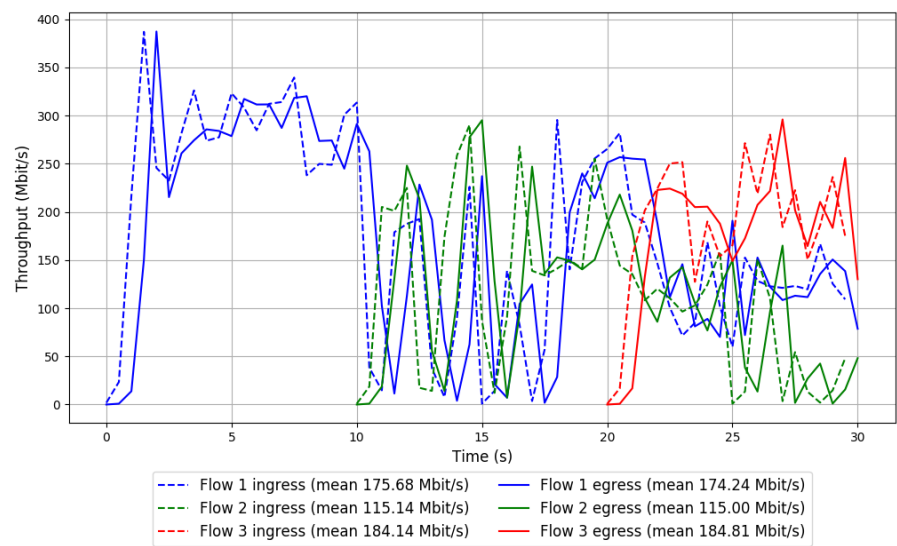


Run 4: Statistics of Verus

Start at: 2018-06-06 18:42:13
End at: 2018-06-06 18:42:43
Local clock offset: -0.039 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-06-06 23:43:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.54 Mbit/s
95th percentile per-packet one-way delay: 144.624 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 174.24 Mbit/s
95th percentile per-packet one-way delay: 142.385 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 115.00 Mbit/s
95th percentile per-packet one-way delay: 122.818 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 184.81 Mbit/s
95th percentile per-packet one-way delay: 184.772 ms
Loss rate: 1.47%

Run 4: Report of Verus — Data Link

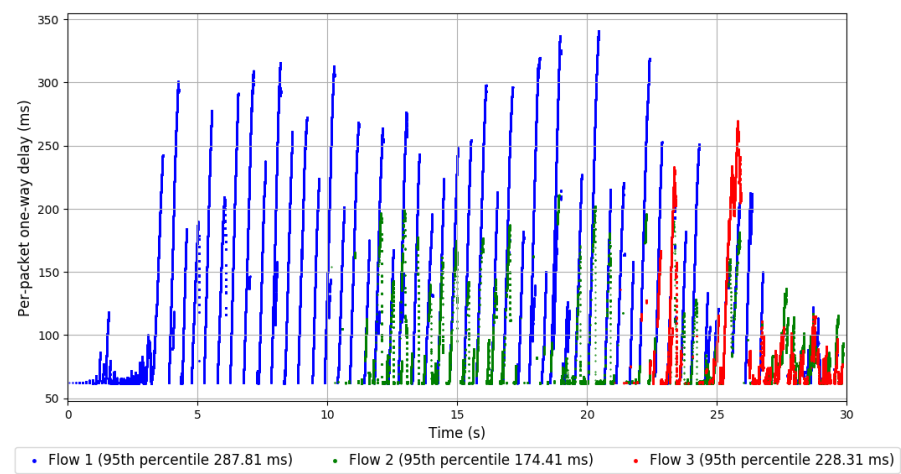
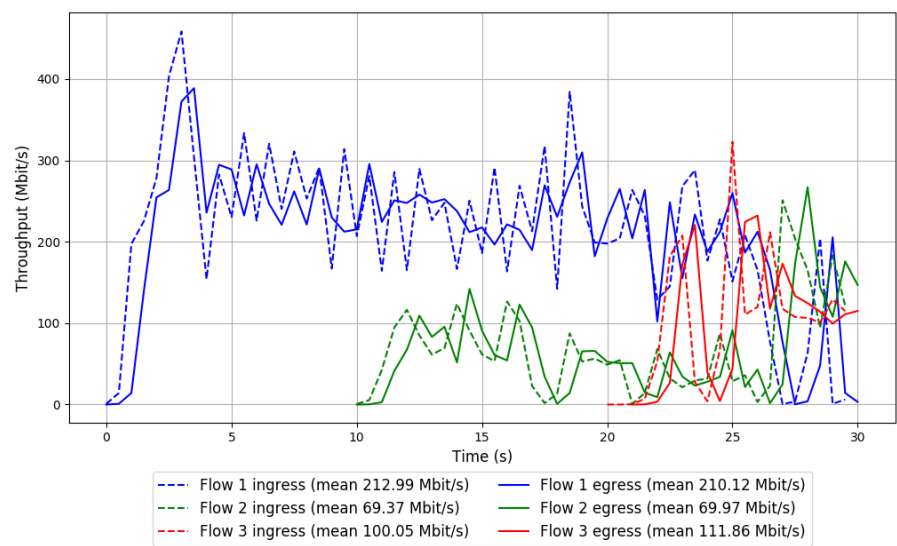


Run 5: Statistics of Verus

Start at: 2018-06-06 19:05:35
End at: 2018-06-06 19:06:05
Local clock offset: -0.0 ms
Remote clock offset: -0.357 ms

Below is generated by plot.py at 2018-06-06 23:43:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 288.64 Mbit/s
95th percentile per-packet one-way delay: 274.674 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 210.12 Mbit/s
95th percentile per-packet one-way delay: 287.811 ms
Loss rate: 1.77%
-- Flow 2:
Average throughput: 69.97 Mbit/s
95th percentile per-packet one-way delay: 174.413 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 111.86 Mbit/s
95th percentile per-packet one-way delay: 228.309 ms
Loss rate: 1.72%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-06 19:28:49

End at: 2018-06-06 19:29:19

Local clock offset: -0.112 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-06 23:43:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 335.51 Mbit/s

95th percentile per-packet one-way delay: 128.408 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 210.82 Mbit/s

95th percentile per-packet one-way delay: 125.179 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 123.38 Mbit/s

95th percentile per-packet one-way delay: 102.281 ms

Loss rate: 1.74%

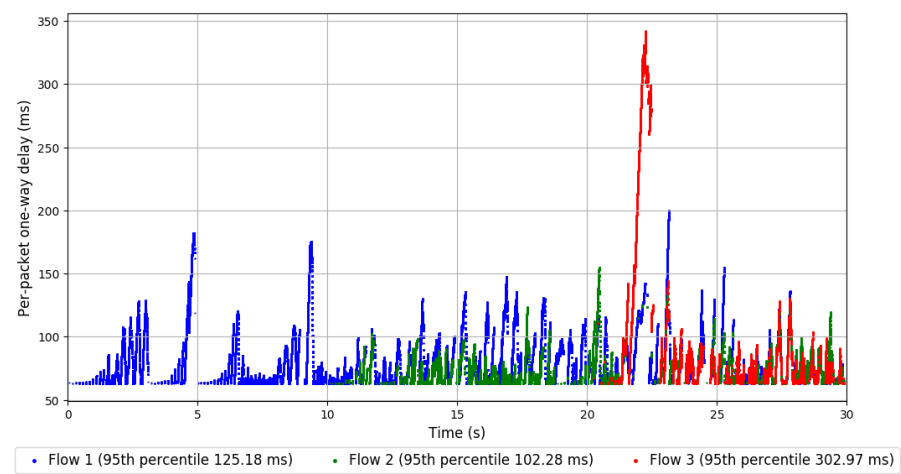
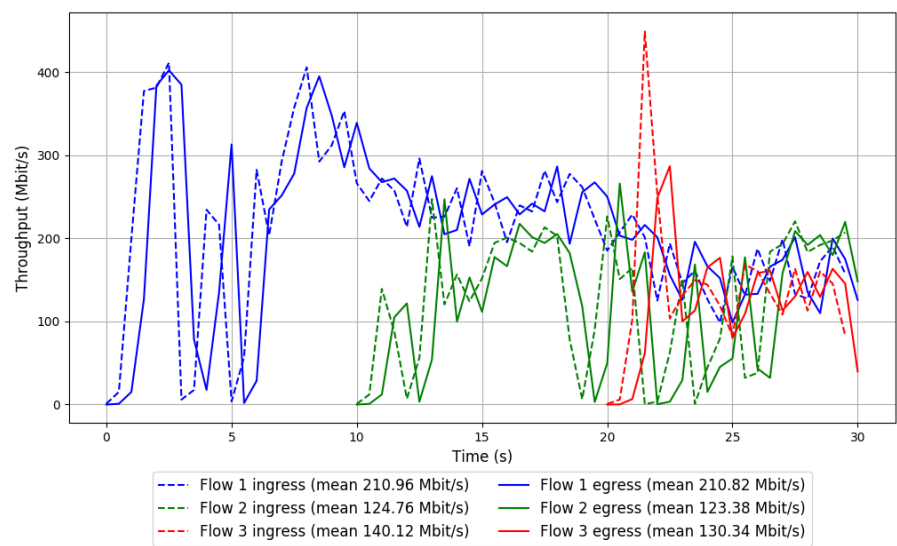
-- Flow 3:

Average throughput: 130.34 Mbit/s

95th percentile per-packet one-way delay: 302.969 ms

Loss rate: 8.22%

Run 6: Report of Verus — Data Link

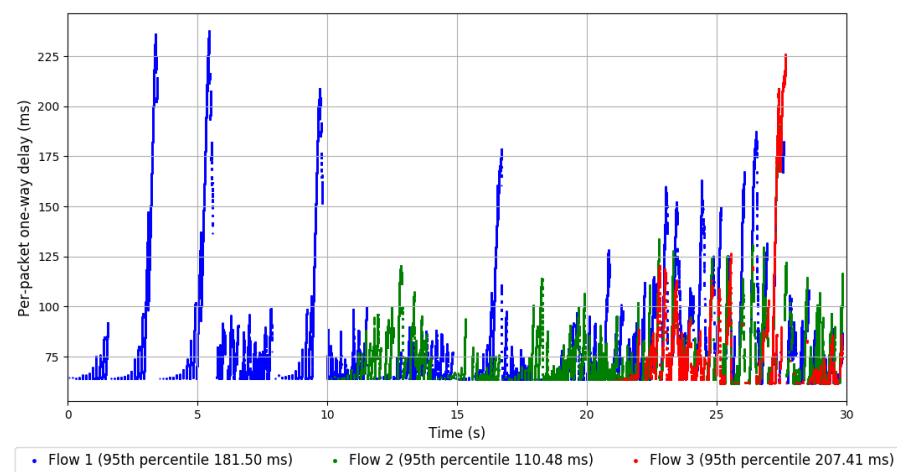
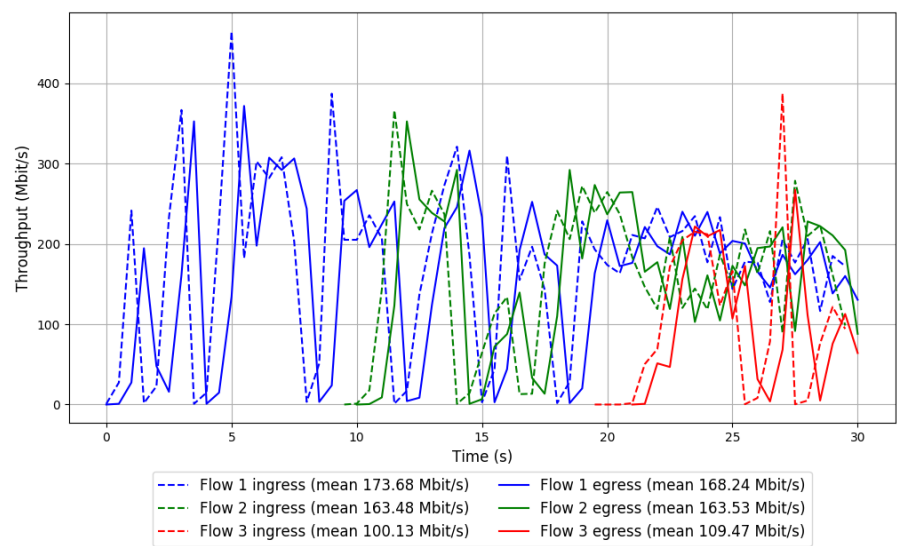


Run 7: Statistics of Verus

Start at: 2018-06-06 19:52:05
End at: 2018-06-06 19:52:36
Local clock offset: -0.034 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2018-06-06 23:45:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 309.38 Mbit/s
95th percentile per-packet one-way delay: 171.856 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 168.24 Mbit/s
95th percentile per-packet one-way delay: 181.504 ms
Loss rate: 3.55%
-- Flow 2:
Average throughput: 163.53 Mbit/s
95th percentile per-packet one-way delay: 110.477 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 109.47 Mbit/s
95th percentile per-packet one-way delay: 207.410 ms
Loss rate: 3.18%

Run 7: Report of Verus — Data Link

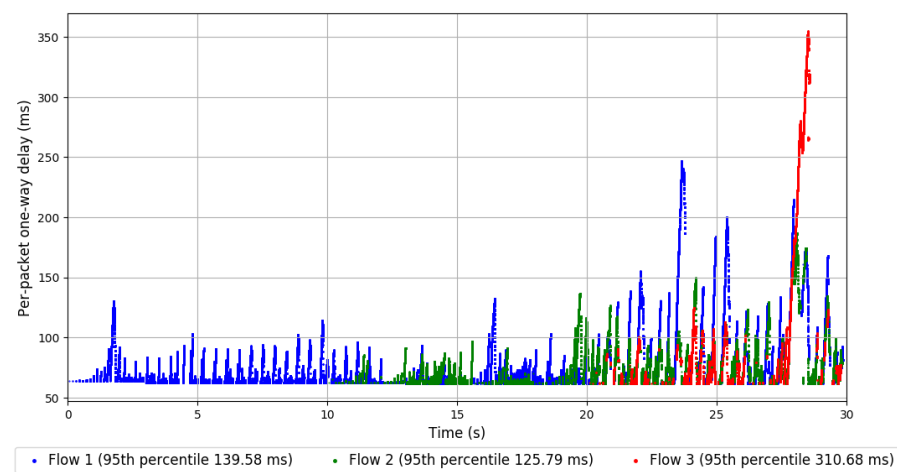
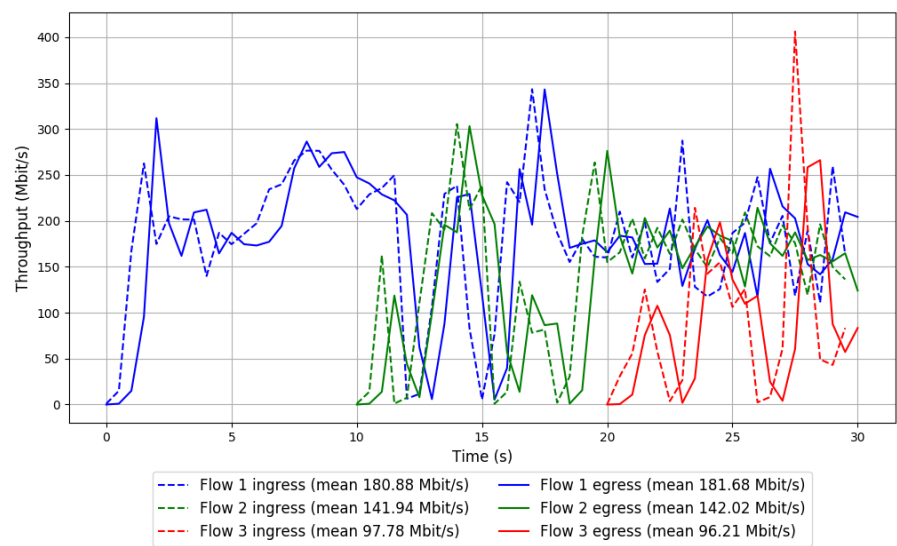


Run 8: Statistics of Verus

Start at: 2018-06-06 20:15:28
End at: 2018-06-06 20:15:58
Local clock offset: -0.031 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2018-06-06 23:45:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.13 Mbit/s
95th percentile per-packet one-way delay: 151.954 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 181.68 Mbit/s
95th percentile per-packet one-way delay: 139.583 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 142.02 Mbit/s
95th percentile per-packet one-way delay: 125.792 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 96.21 Mbit/s
95th percentile per-packet one-way delay: 310.676 ms
Loss rate: 1.44%

Run 8: Report of Verus — Data Link

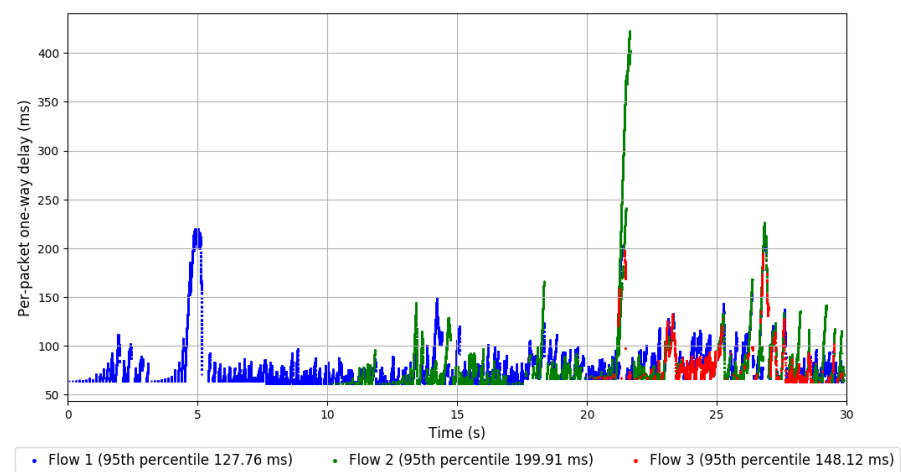
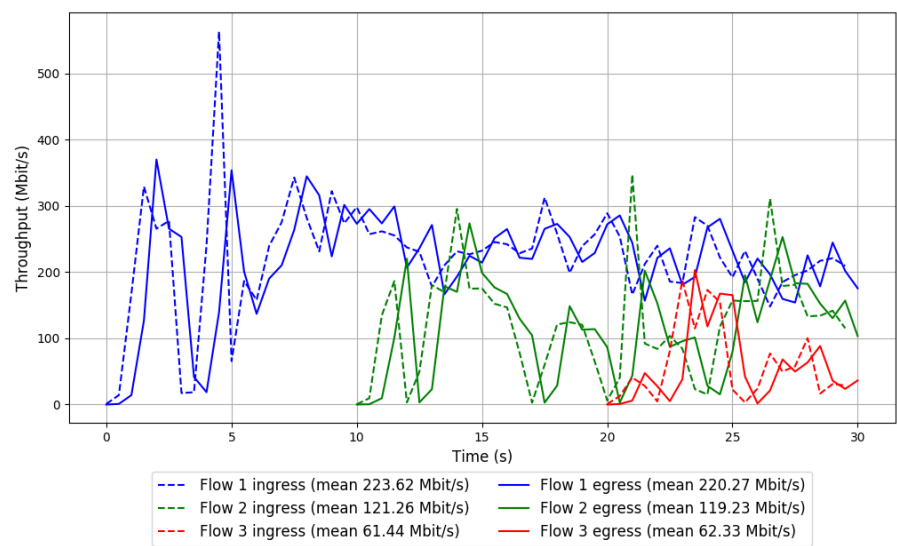


Run 9: Statistics of Verus

Start at: 2018-06-06 20:38:53
End at: 2018-06-06 20:39:23
Local clock offset: 0.046 ms
Remote clock offset: -0.296 ms

Below is generated by plot.py at 2018-06-06 23:47:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 319.58 Mbit/s
95th percentile per-packet one-way delay: 146.157 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 220.27 Mbit/s
95th percentile per-packet one-way delay: 127.763 ms
Loss rate: 2.06%
-- Flow 2:
Average throughput: 119.23 Mbit/s
95th percentile per-packet one-way delay: 199.910 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 62.33 Mbit/s
95th percentile per-packet one-way delay: 148.118 ms
Loss rate: 0.01%

Run 9: Report of Verus — Data Link

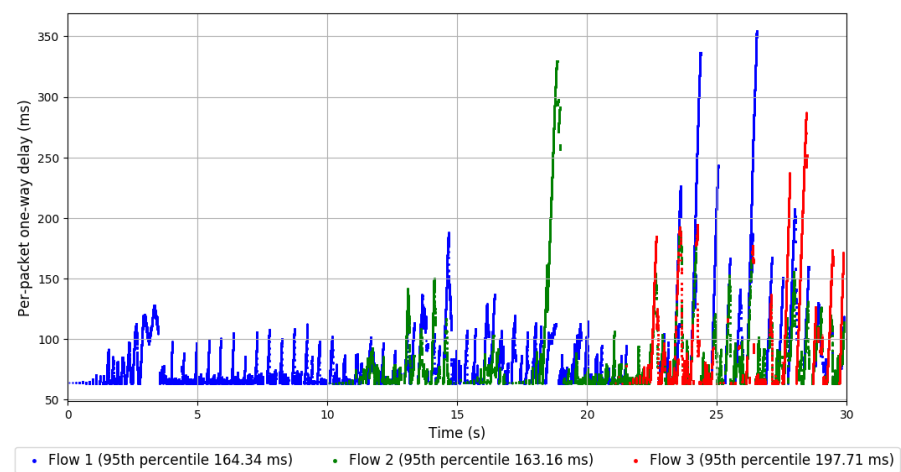
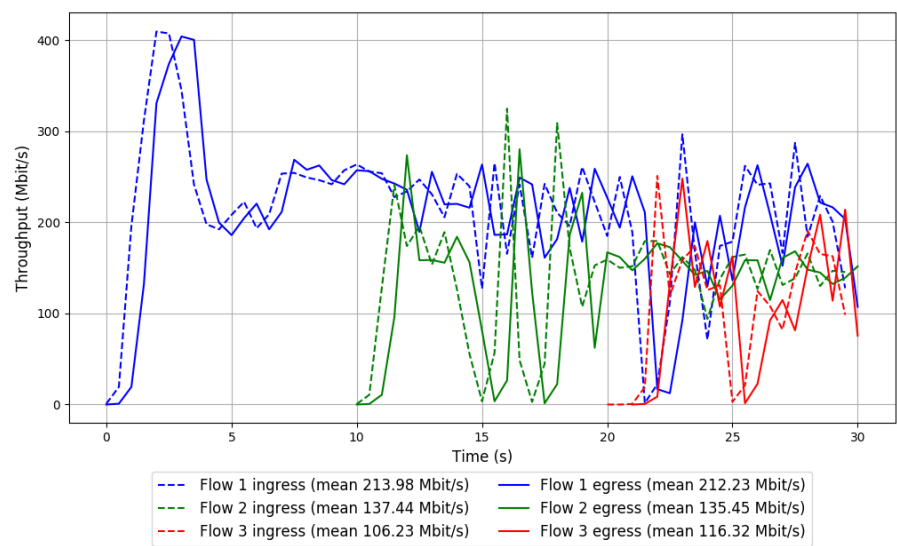


Run 10: Statistics of Verus

Start at: 2018-06-06 21:01:48
End at: 2018-06-06 21:02:18
Local clock offset: 0.065 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-06-06 23:48:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 336.53 Mbit/s
95th percentile per-packet one-way delay: 175.208 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 212.23 Mbit/s
95th percentile per-packet one-way delay: 164.345 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 135.45 Mbit/s
95th percentile per-packet one-way delay: 163.163 ms
Loss rate: 2.08%
-- Flow 3:
Average throughput: 116.32 Mbit/s
95th percentile per-packet one-way delay: 197.708 ms
Loss rate: 1.74%

Run 10: Report of Verus — Data Link

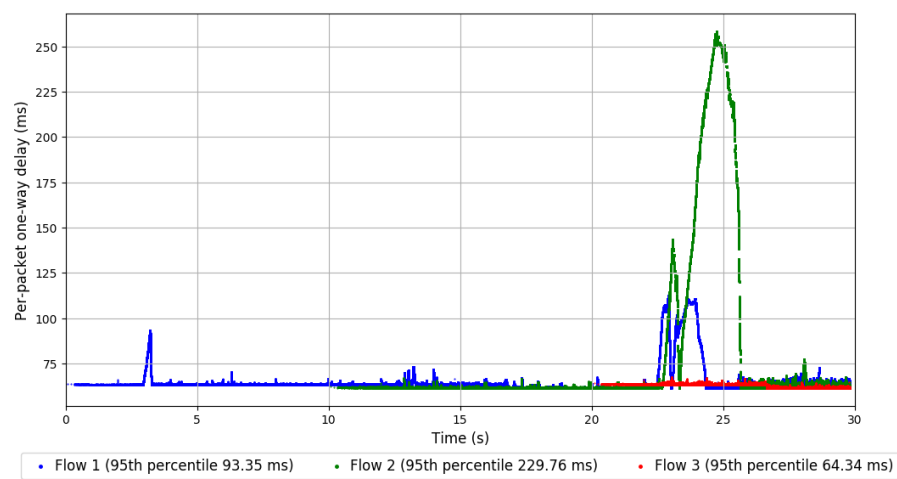
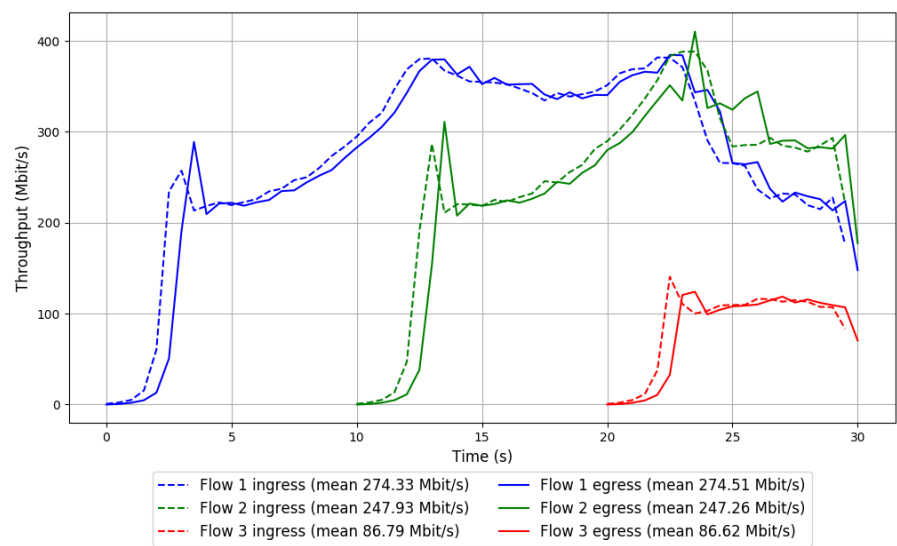


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 17:29:34
End at: 2018-06-06 17:30:04
Local clock offset: 0.002 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-06-06 23:52:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 466.90 Mbit/s
95th percentile per-packet one-way delay: 124.888 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 274.51 Mbit/s
95th percentile per-packet one-way delay: 93.347 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 247.26 Mbit/s
95th percentile per-packet one-way delay: 229.760 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 64.341 ms
Loss rate: 1.50%

Run 1: Report of PCC-Vivace — Data Link

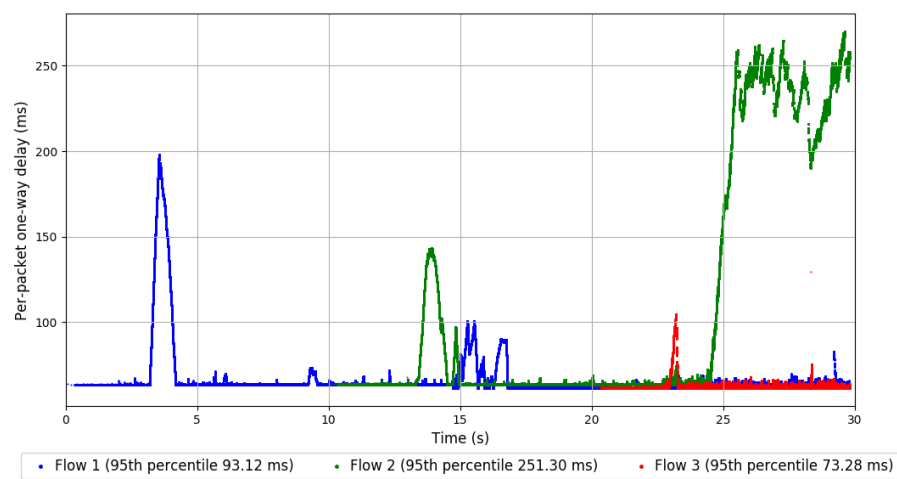
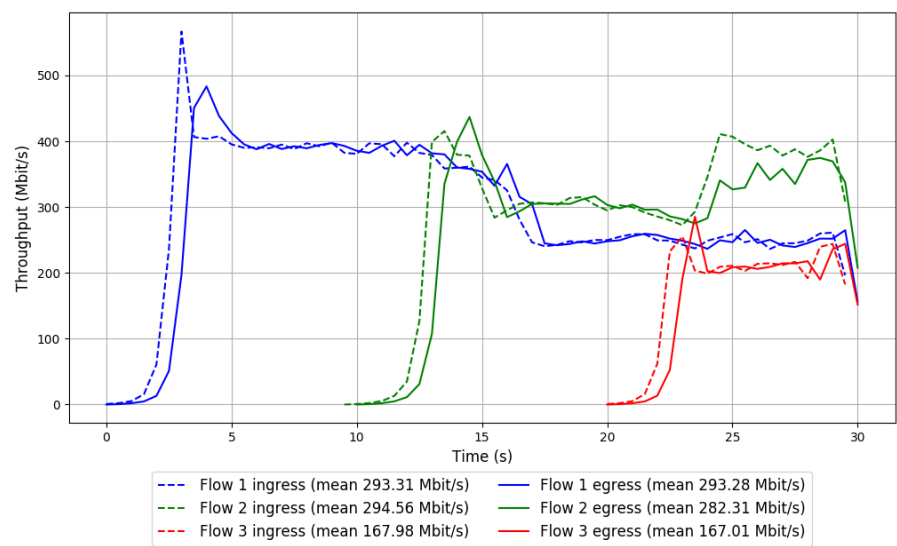


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 17:52:36
End at: 2018-06-06 17:53:06
Local clock offset: -0.044 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-06-06 23:53:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 535.36 Mbit/s
95th percentile per-packet one-way delay: 239.861 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 293.28 Mbit/s
95th percentile per-packet one-way delay: 93.117 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 282.31 Mbit/s
95th percentile per-packet one-way delay: 251.299 ms
Loss rate: 4.78%
-- Flow 3:
Average throughput: 167.01 Mbit/s
95th percentile per-packet one-way delay: 73.281 ms
Loss rate: 1.85%

Run 2: Report of PCC-Vivace — Data Link

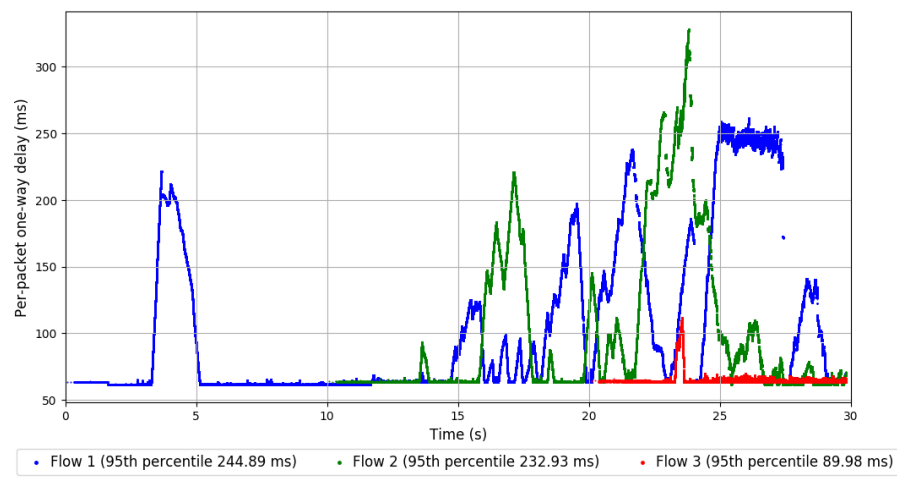
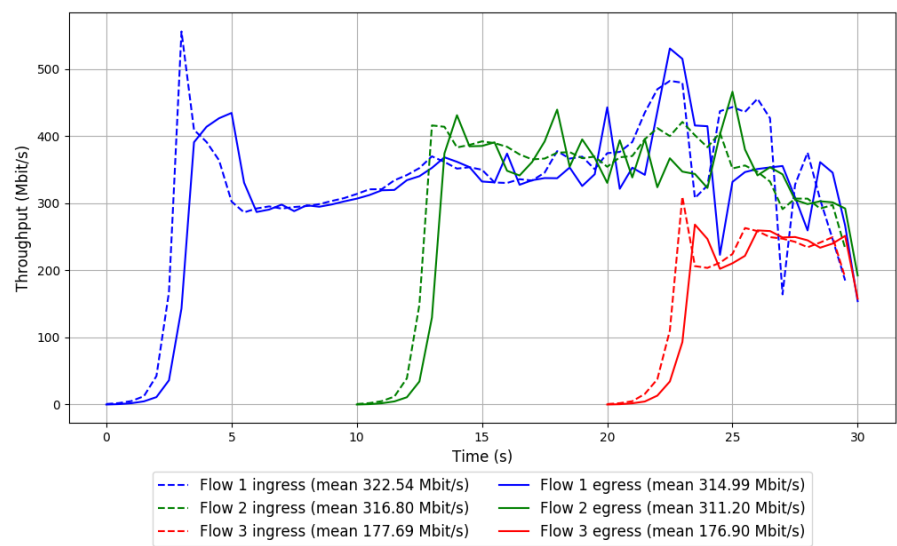


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 18:16:09
End at: 2018-06-06 18:16:39
Local clock offset: -0.032 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-06 23:55:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 579.32 Mbit/s
95th percentile per-packet one-way delay: 242.416 ms
Loss rate: 2.53%
-- Flow 1:
Average throughput: 314.99 Mbit/s
95th percentile per-packet one-way delay: 244.890 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 311.20 Mbit/s
95th percentile per-packet one-way delay: 232.927 ms
Loss rate: 2.40%
-- Flow 3:
Average throughput: 176.90 Mbit/s
95th percentile per-packet one-way delay: 89.977 ms
Loss rate: 1.74%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 18:39:24

End at: 2018-06-06 18:39:54

Local clock offset: 0.005 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-06-06 23:55:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 431.88 Mbit/s

95th percentile per-packet one-way delay: 132.576 ms

Loss rate: 0.66%

-- Flow 1:

Average throughput: 281.61 Mbit/s

95th percentile per-packet one-way delay: 154.862 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 198.55 Mbit/s

95th percentile per-packet one-way delay: 67.560 ms

Loss rate: 0.40%

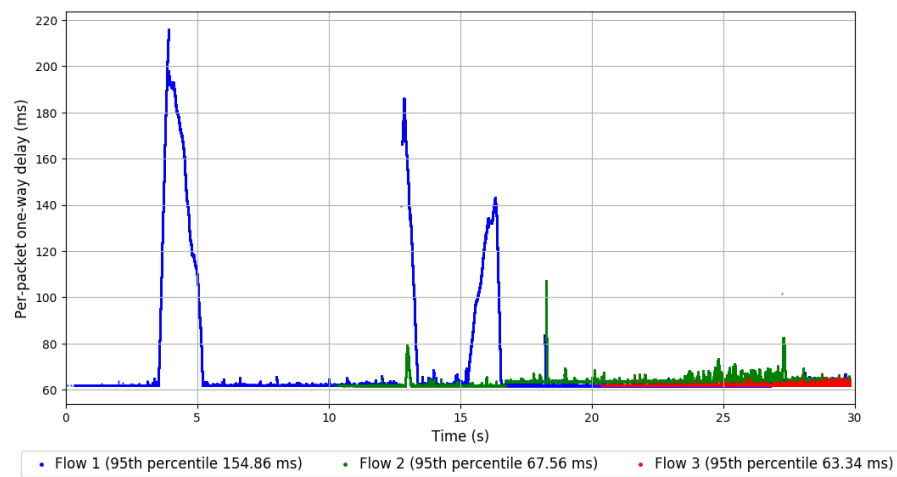
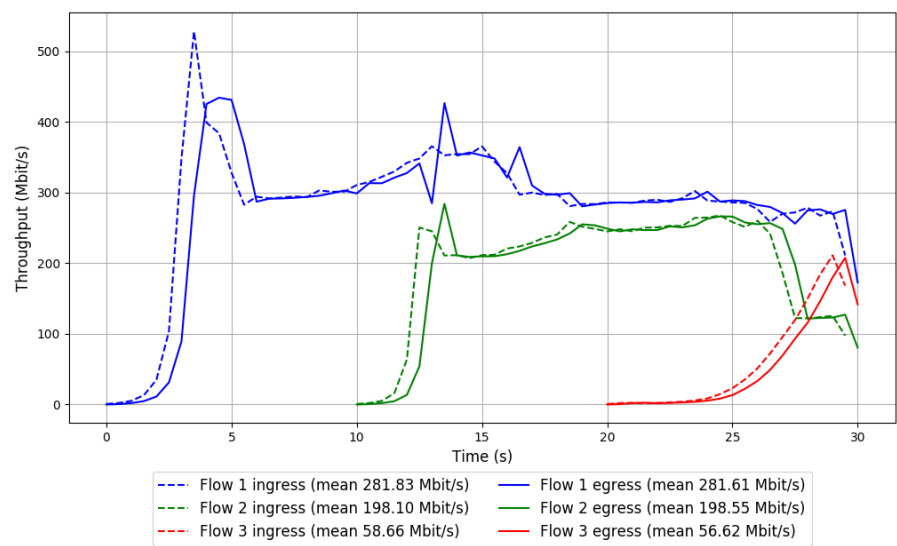
-- Flow 3:

Average throughput: 56.62 Mbit/s

95th percentile per-packet one-way delay: 63.344 ms

Loss rate: 4.72%

Run 4: Report of PCC-Vivace — Data Link

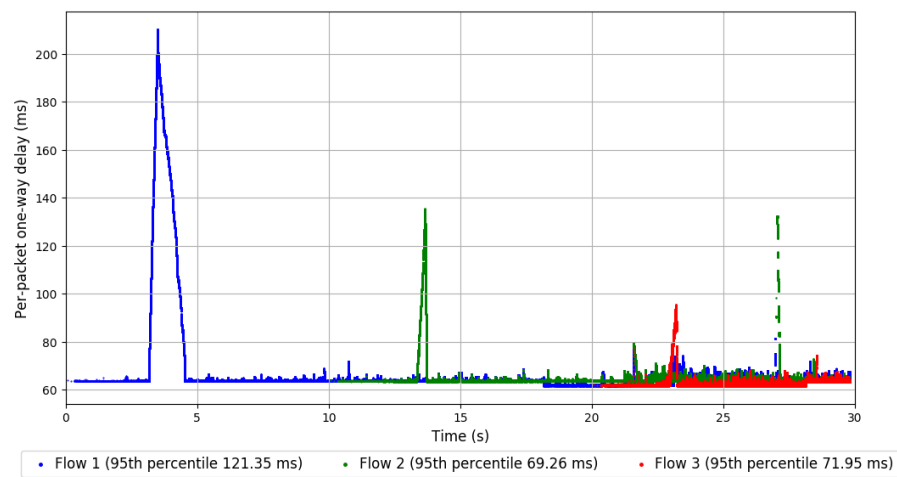
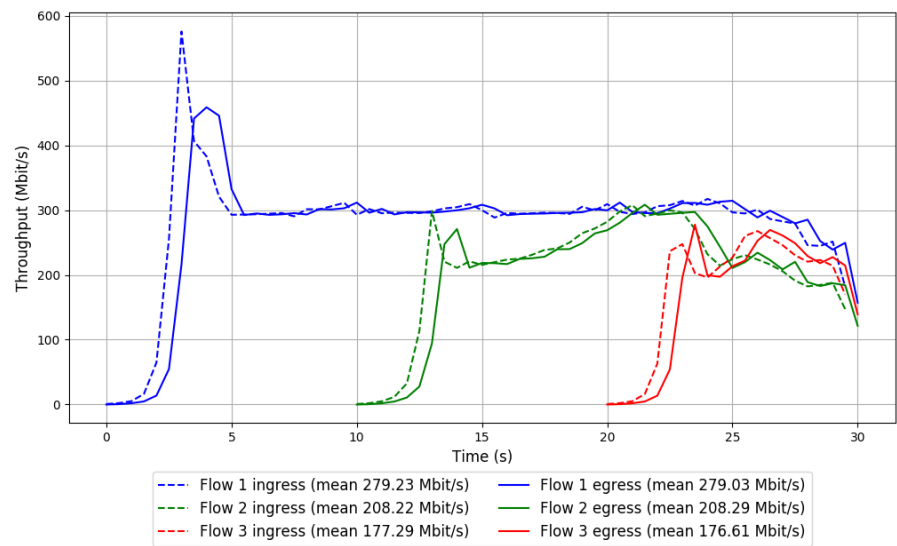


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 19:02:42
End at: 2018-06-06 19:03:12
Local clock offset: -0.028 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2018-06-06 23:55:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 475.06 Mbit/s
95th percentile per-packet one-way delay: 84.173 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 279.03 Mbit/s
95th percentile per-packet one-way delay: 121.354 ms
Loss rate: 0.50%
-- Flow 2:
Average throughput: 208.29 Mbit/s
95th percentile per-packet one-way delay: 69.262 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 176.61 Mbit/s
95th percentile per-packet one-way delay: 71.948 ms
Loss rate: 1.65%

Run 5: Report of PCC-Vivace — Data Link

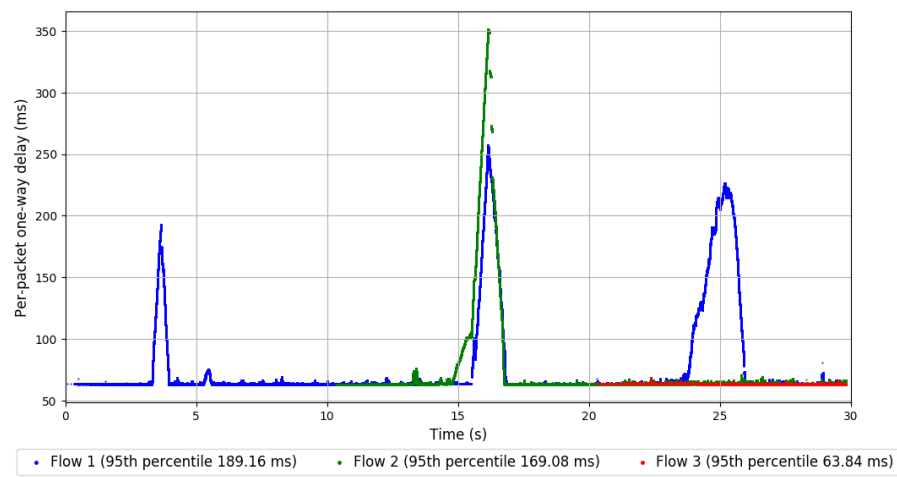
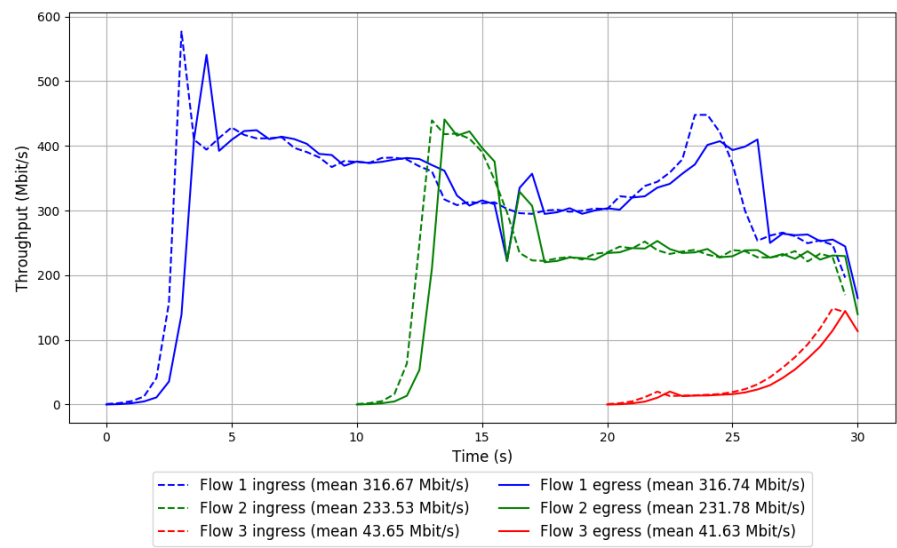


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 19:25:56
End at: 2018-06-06 19:26:26
Local clock offset: -0.054 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-06 23:55:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 484.11 Mbit/s
95th percentile per-packet one-way delay: 186.592 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 316.74 Mbit/s
95th percentile per-packet one-way delay: 189.158 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 231.78 Mbit/s
95th percentile per-packet one-way delay: 169.080 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 41.63 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 5.88%

Run 6: Report of PCC-Vivace — Data Link

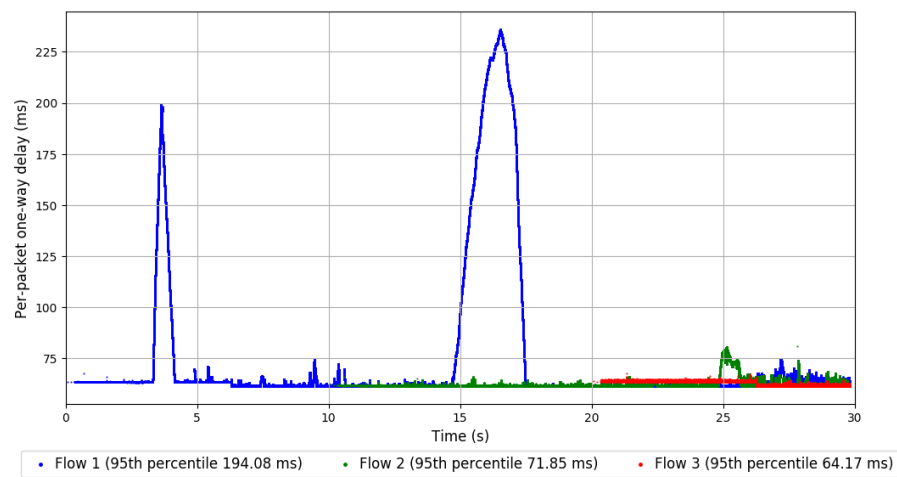
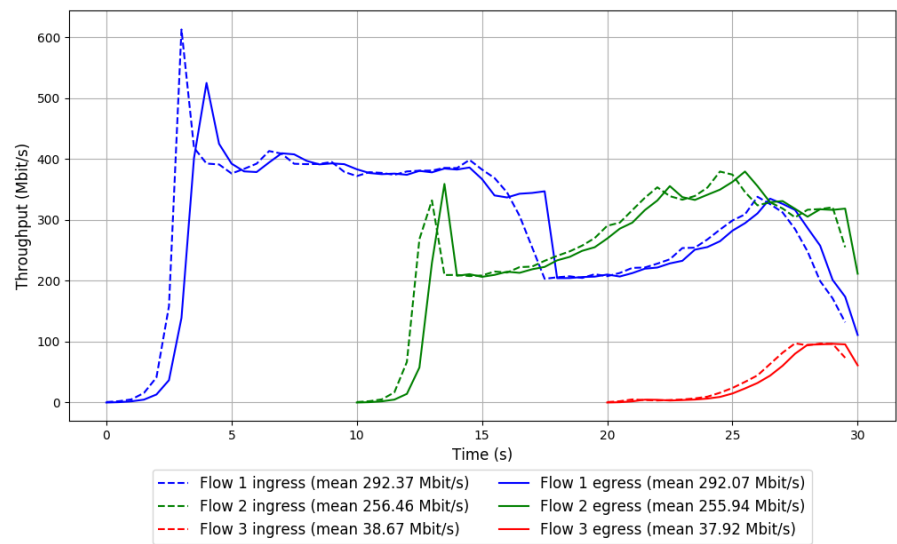


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 19:49:14
End at: 2018-06-06 19:49:44
Local clock offset: -0.023 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2018-06-06 23:56:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 474.36 Mbit/s
95th percentile per-packet one-way delay: 158.611 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 292.07 Mbit/s
95th percentile per-packet one-way delay: 194.084 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 255.94 Mbit/s
95th percentile per-packet one-way delay: 71.847 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 37.92 Mbit/s
95th percentile per-packet one-way delay: 64.173 ms
Loss rate: 3.22%

Run 7: Report of PCC-Vivace — Data Link

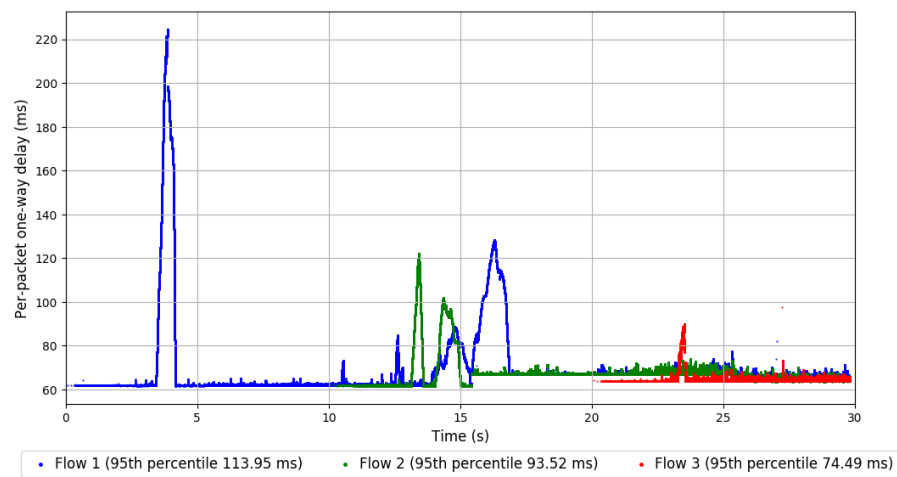
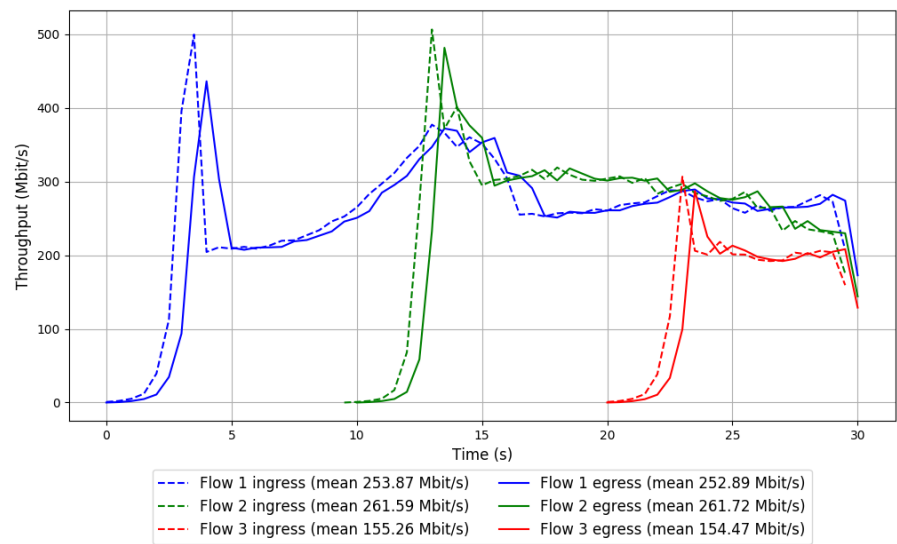


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 20:12:35
End at: 2018-06-06 20:13:05
Local clock offset: -0.016 ms
Remote clock offset: -0.203 ms

Below is generated by plot.py at 2018-06-06 23:57:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 477.12 Mbit/s
95th percentile per-packet one-way delay: 97.413 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 252.89 Mbit/s
95th percentile per-packet one-way delay: 113.950 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 261.72 Mbit/s
95th percentile per-packet one-way delay: 93.524 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 154.47 Mbit/s
95th percentile per-packet one-way delay: 74.487 ms
Loss rate: 1.84%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 20:36:04

End at: 2018-06-06 20:36:34

Local clock offset: 0.035 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-06 23:57:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 412.05 Mbit/s

95th percentile per-packet one-way delay: 79.326 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 259.39 Mbit/s

95th percentile per-packet one-way delay: 81.914 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 187.95 Mbit/s

95th percentile per-packet one-way delay: 74.773 ms

Loss rate: 0.48%

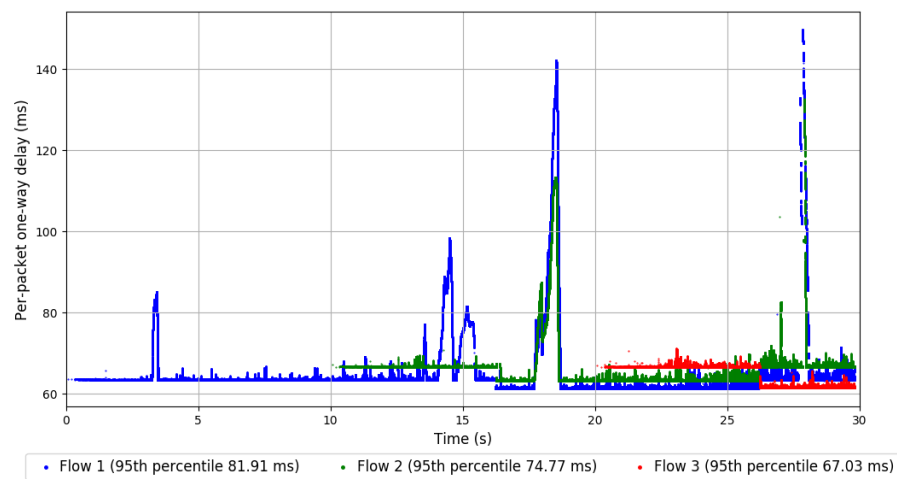
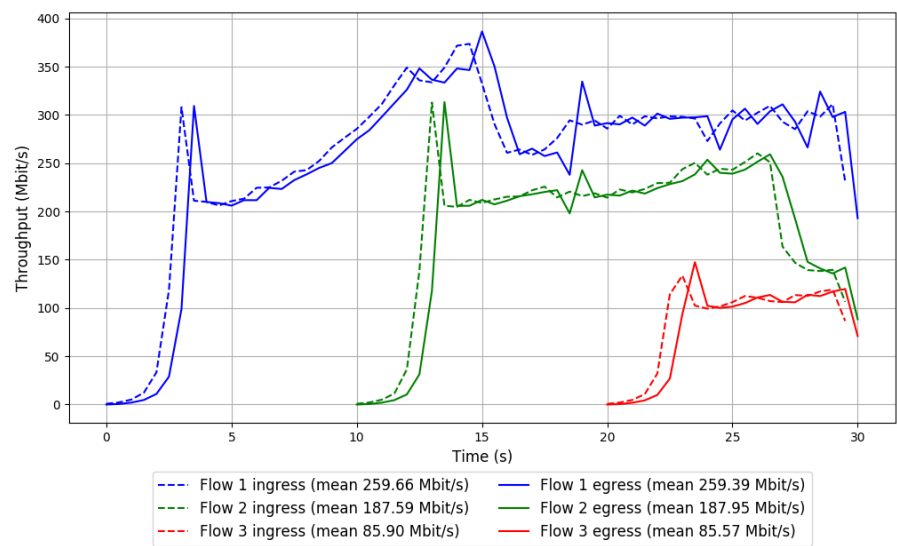
-- Flow 3:

Average throughput: 85.57 Mbit/s

95th percentile per-packet one-way delay: 67.032 ms

Loss rate: 1.71%

Run 9: Report of PCC-Vivace — Data Link

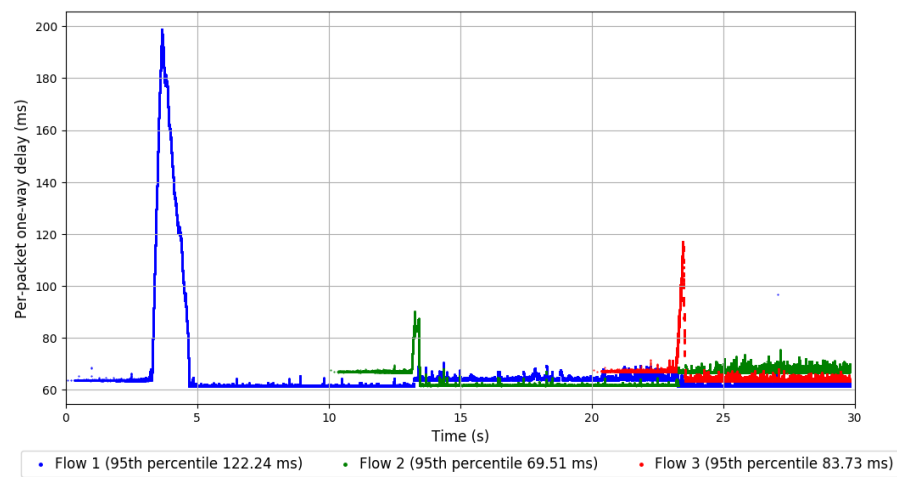
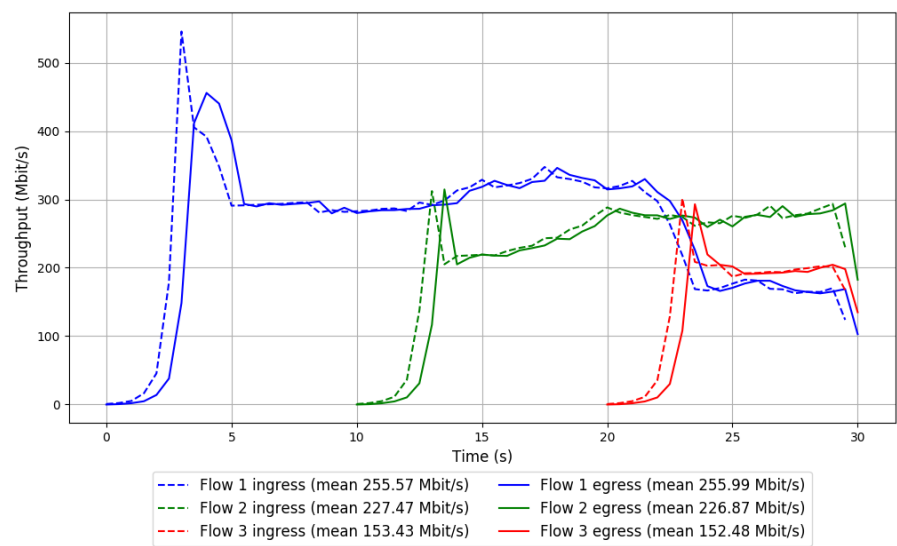


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 20:58:57
End at: 2018-06-06 20:59:27
Local clock offset: 0.092 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-06 23:57:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 456.38 Mbit/s
95th percentile per-packet one-way delay: 84.273 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 255.99 Mbit/s
95th percentile per-packet one-way delay: 122.239 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 226.87 Mbit/s
95th percentile per-packet one-way delay: 69.514 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 152.48 Mbit/s
95th percentile per-packet one-way delay: 83.735 ms
Loss rate: 1.97%

Run 10: Report of PCC-Vivace — Data Link

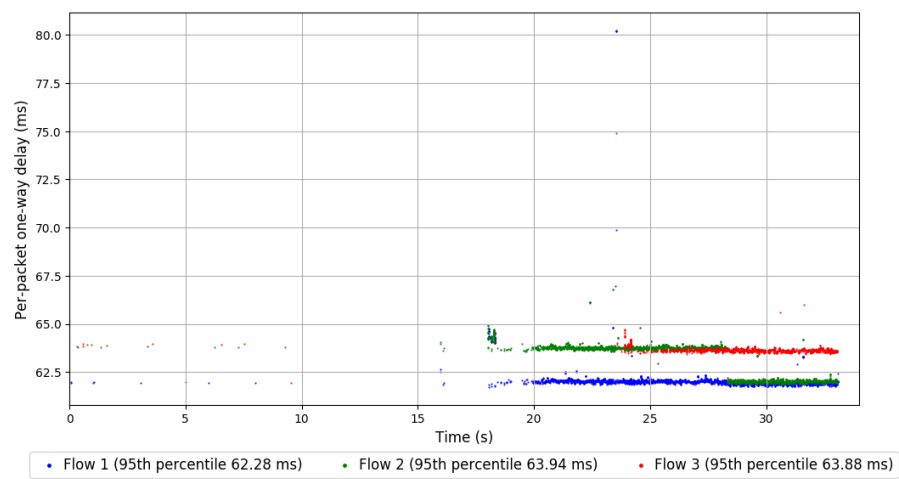
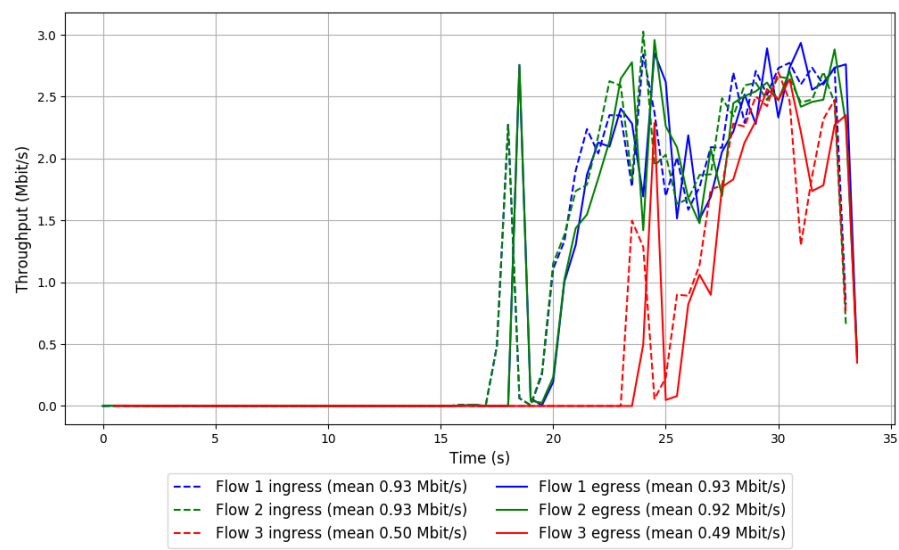


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 17:38:05
End at: 2018-06-06 17:38:35
Local clock offset: -0.057 ms
Remote clock offset: -0.267 ms

# Below is generated by plot.py at 2018-06-06 23:57:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 63.892 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 62.282 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 63.944 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 63.880 ms
Loss rate: 2.26%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-06 18:01:20

End at: 2018-06-06 18:01:50

Local clock offset: -0.038 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2018-06-06 23:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.81 Mbit/s

95th percentile per-packet one-way delay: 63.496 ms

Loss rate: 0.78%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 63.494 ms

Loss rate: 0.77%

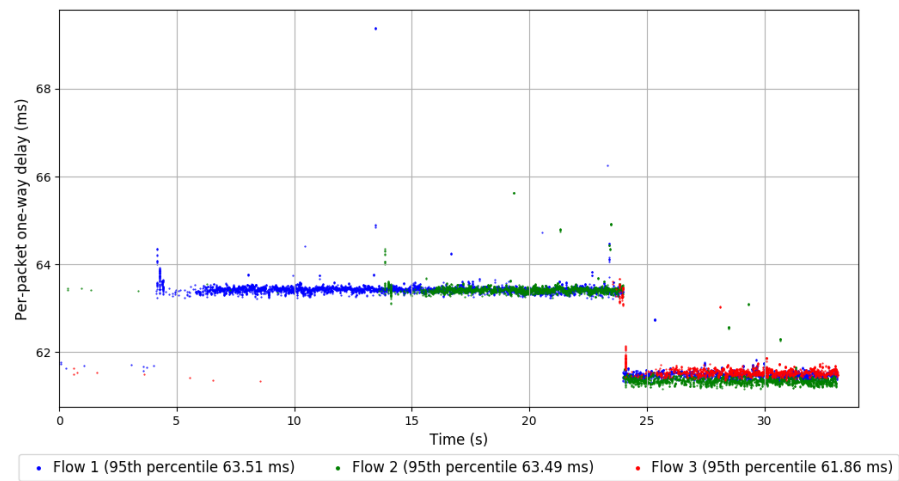
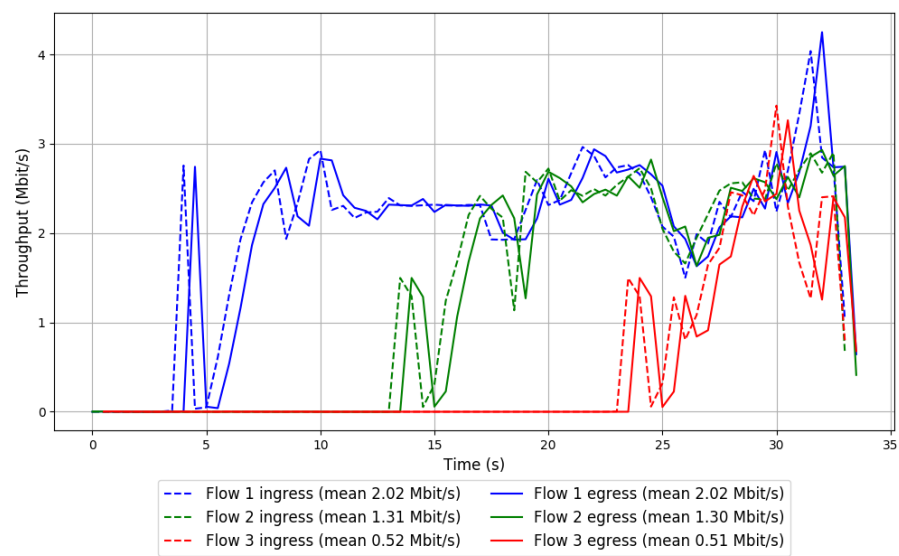
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 61.863 ms

Loss rate: 1.58%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-06 18:24:50

End at: 2018-06-06 18:25:20

Local clock offset: -0.022 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-06 23:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.77 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 63.700 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 1.26 Mbit/s

95th percentile per-packet one-way delay: 63.643 ms

Loss rate: 0.79%

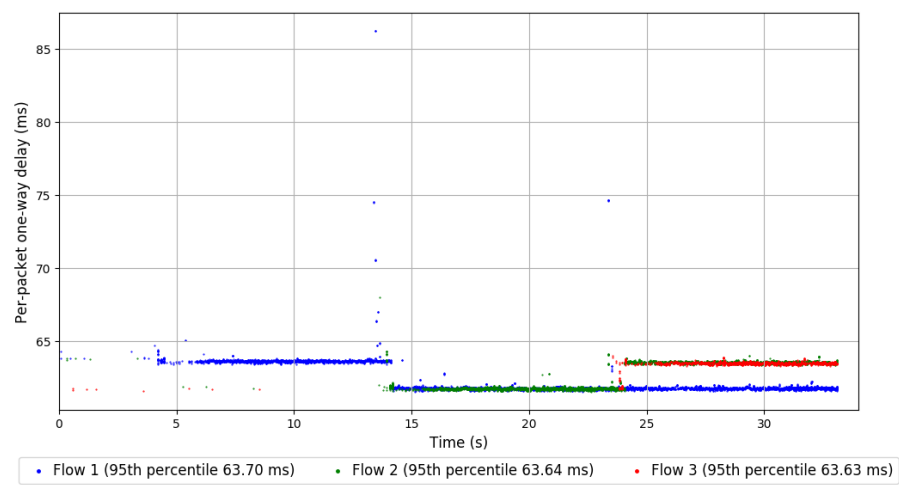
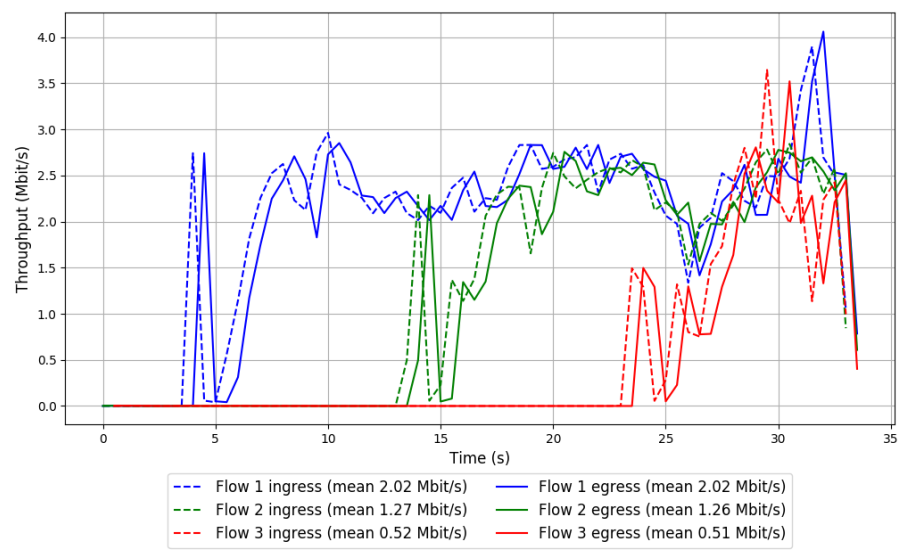
-- Flow 3:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 63.630 ms

Loss rate: 2.42%

Run 3: Report of WebRTC media — Data Link

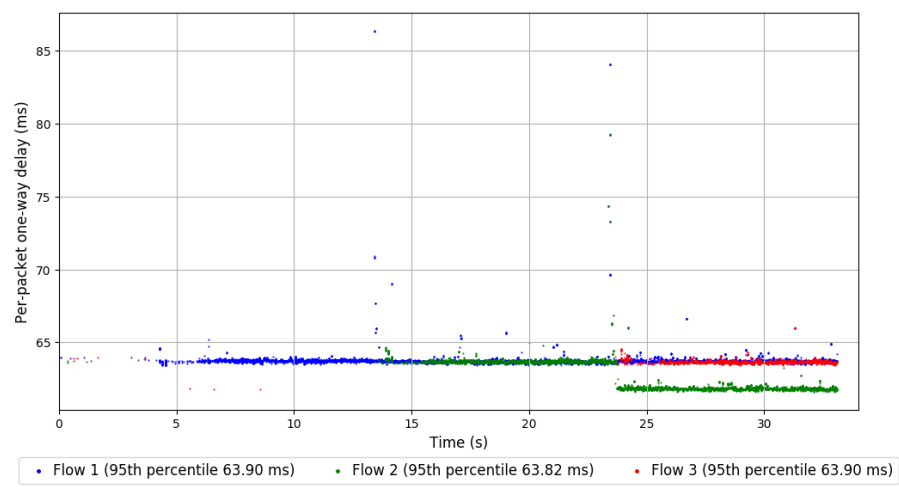
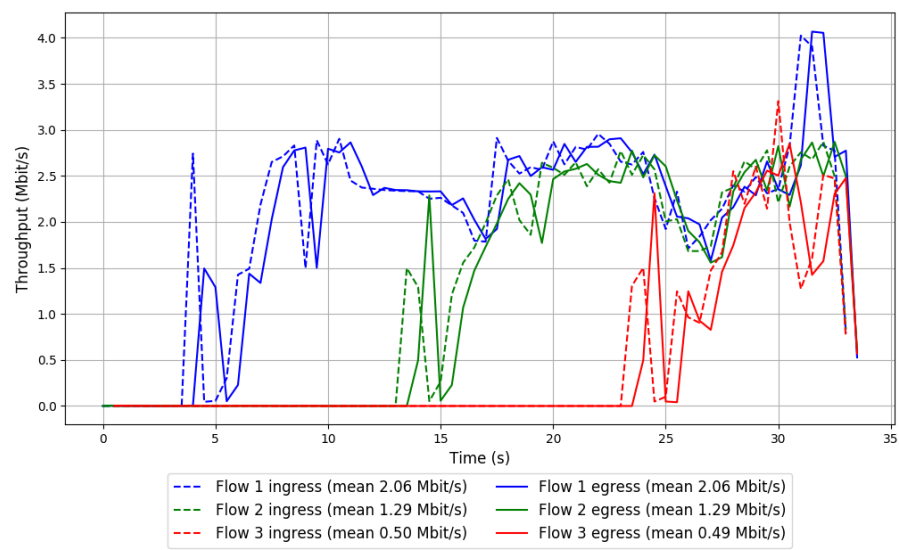


Run 4: Statistics of WebRTC media

Start at: 2018-06-06 18:48:00
End at: 2018-06-06 18:48:30
Local clock offset: -0.028 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-06-06 23:57:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 63.877 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 63.903 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 63.817 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 63.896 ms
Loss rate: 1.76%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-06 19:11:21

End at: 2018-06-06 19:11:51

Local clock offset: -0.001 ms

Remote clock offset: 0.207 ms

Below is generated by plot.py at 2018-06-06 23:57:31

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 63.583 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 2.04 Mbit/s

95th percentile per-packet one-way delay: 61.729 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 61.644 ms

Loss rate: 0.74%

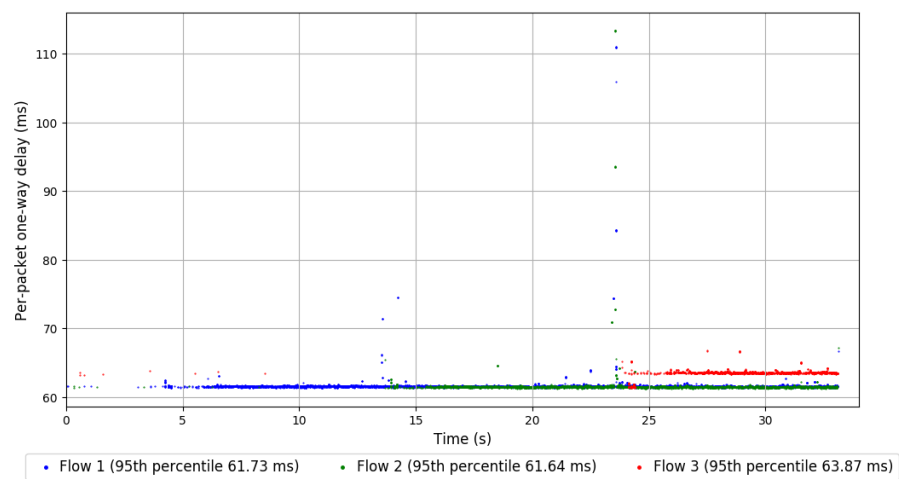
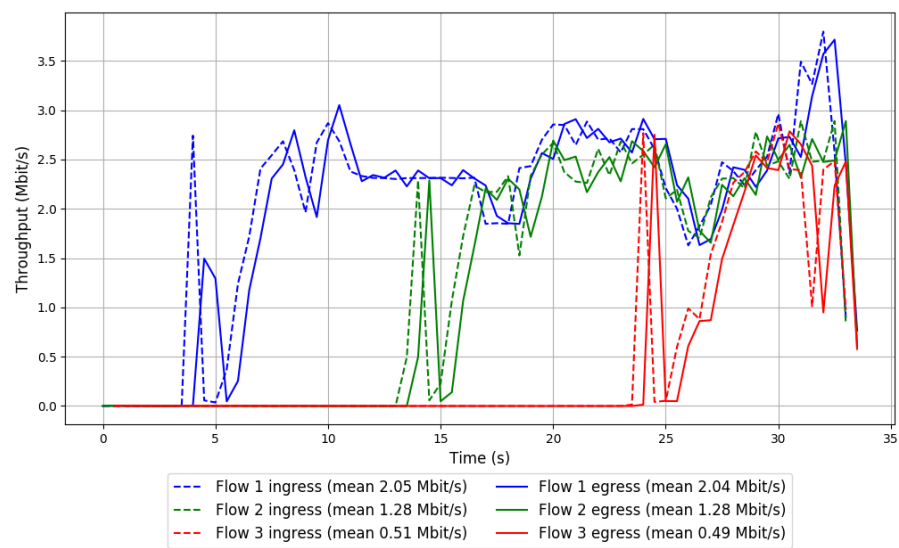
-- Flow 3:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 63.868 ms

Loss rate: 2.42%

Run 5: Report of WebRTC media — Data Link

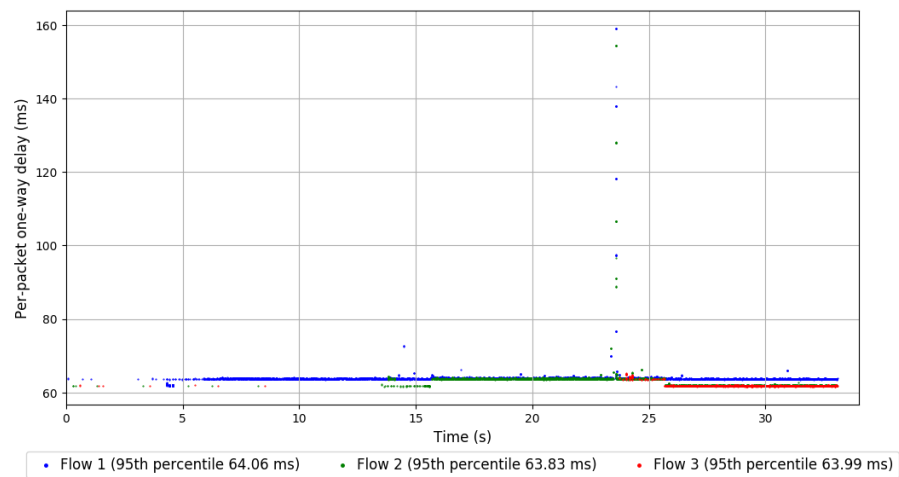
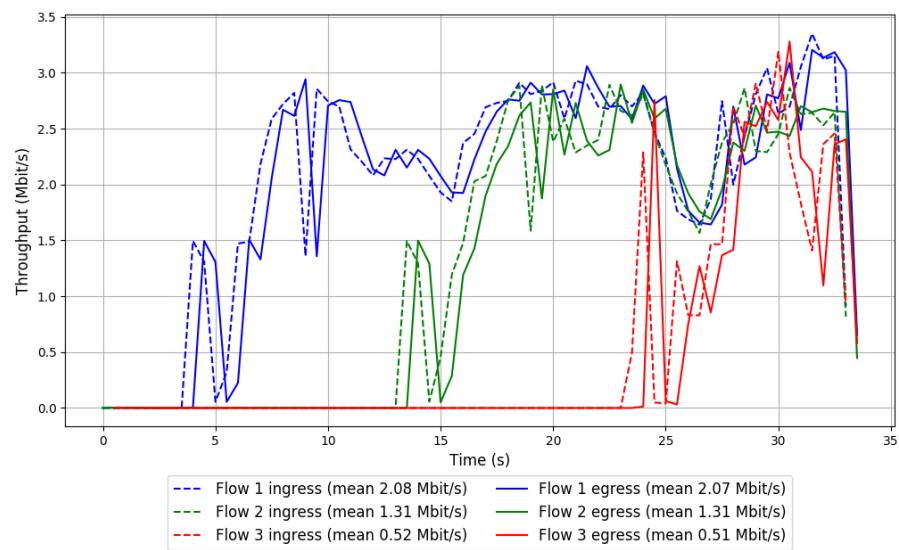


Run 6: Statistics of WebRTC media

Start at: 2018-06-06 19:34:38
End at: 2018-06-06 19:35:08
Local clock offset: -0.053 ms
Remote clock offset: -0.256 ms

Below is generated by plot.py at 2018-06-06 23:57:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 64.024 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 64.059 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 63.834 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.988 ms
Loss rate: 2.24%

Run 6: Report of WebRTC media — Data Link

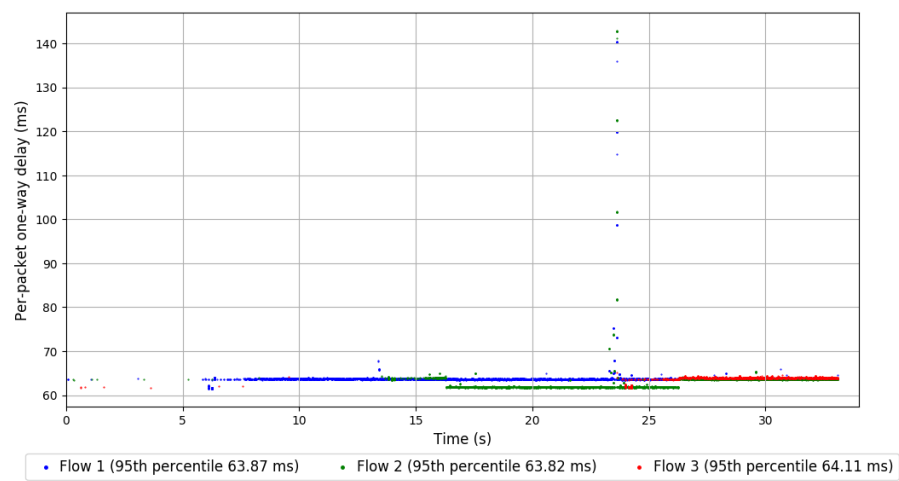
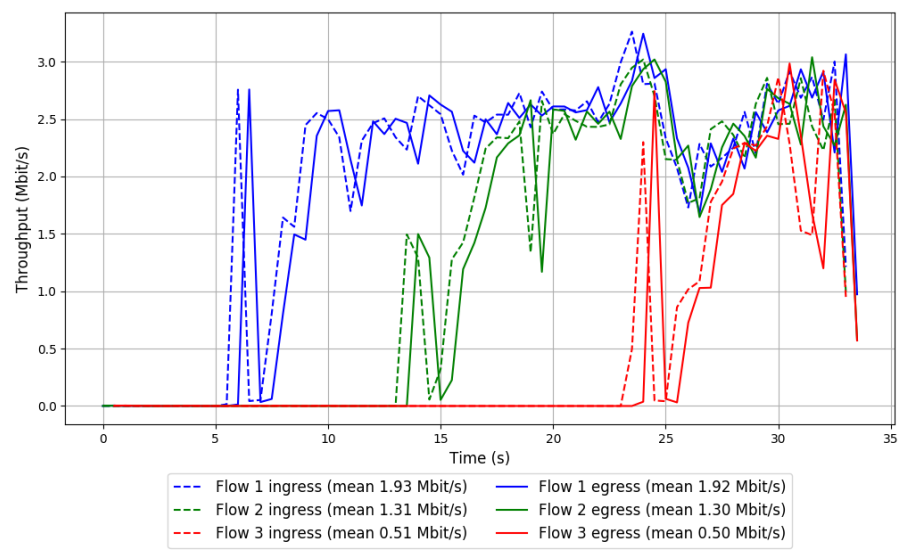


Run 7: Statistics of WebRTC media

Start at: 2018-06-06 19:57:47
End at: 2018-06-06 19:58:18
Local clock offset: -0.015 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-06-06 23:57:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 63.970 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 63.865 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 63.824 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 64.105 ms
Loss rate: 2.32%

Run 7: Report of WebRTC media — Data Link

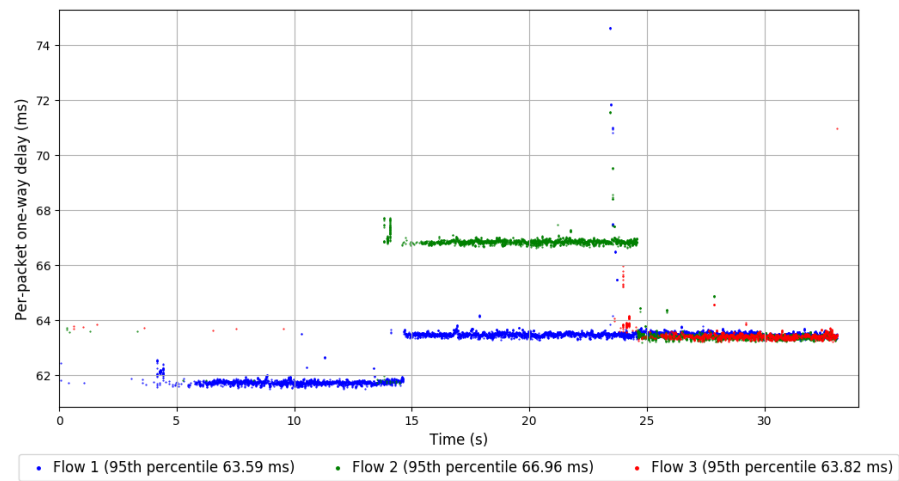
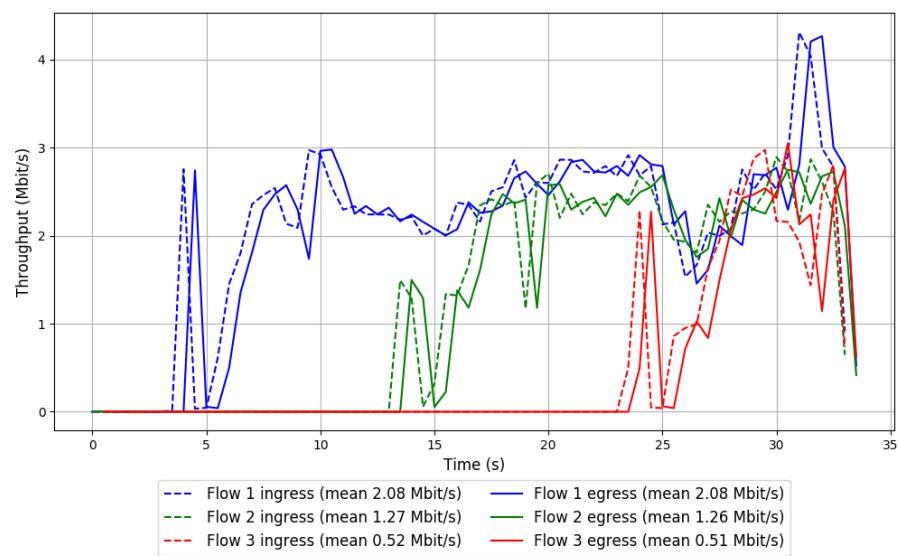


Run 8: Statistics of WebRTC media

Start at: 2018-06-06 20:21:09
End at: 2018-06-06 20:21:39
Local clock offset: 0.011 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-06 23:57:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 66.893 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 63.595 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 66.958 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.819 ms
Loss rate: 1.64%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-06 20:44:34

End at: 2018-06-06 20:45:04

Local clock offset: 0.087 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-06-06 23:57:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 66.723 ms

Loss rate: 0.85%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 66.527 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 1.28 Mbit/s

95th percentile per-packet one-way delay: 66.690 ms

Loss rate: 0.75%

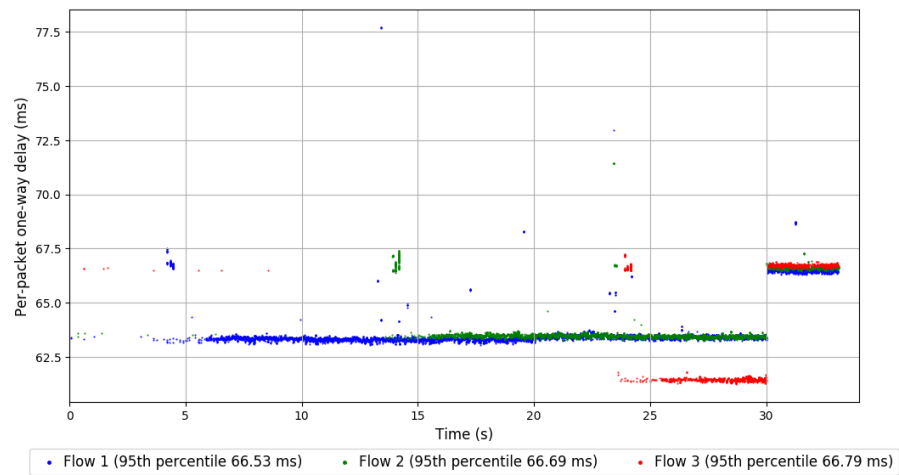
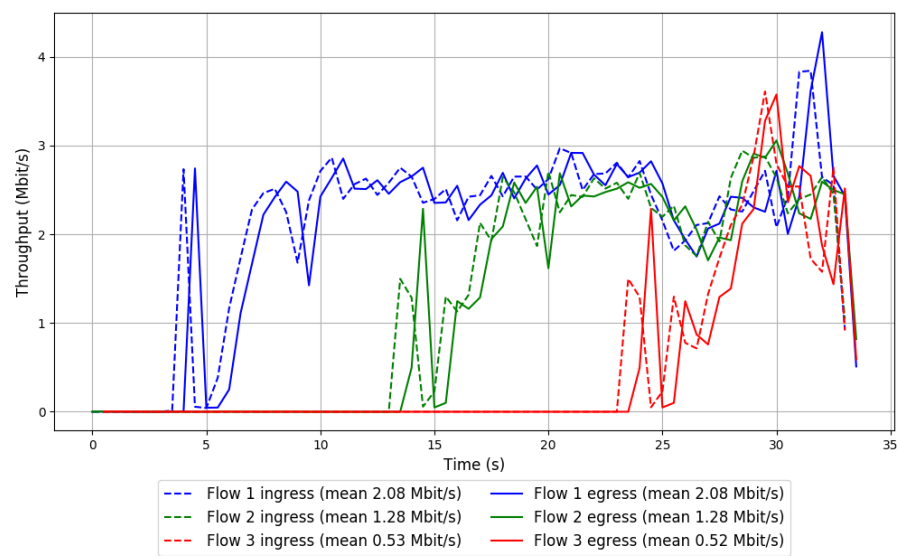
-- Flow 3:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 66.791 ms

Loss rate: 2.12%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-06 21:07:17
End at: 2018-06-06 21:07:47
Local clock offset: 0.083 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-06 23:57:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.77 Mbit/s
95th percentile per-packet one-way delay: 66.850 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 66.887 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 66.806 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 63.489 ms
Loss rate: 2.00%

Run 10: Report of WebRTC media — Data Link

