

## Pantheon Report

Generated at 2018-06-05 13:59:30 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

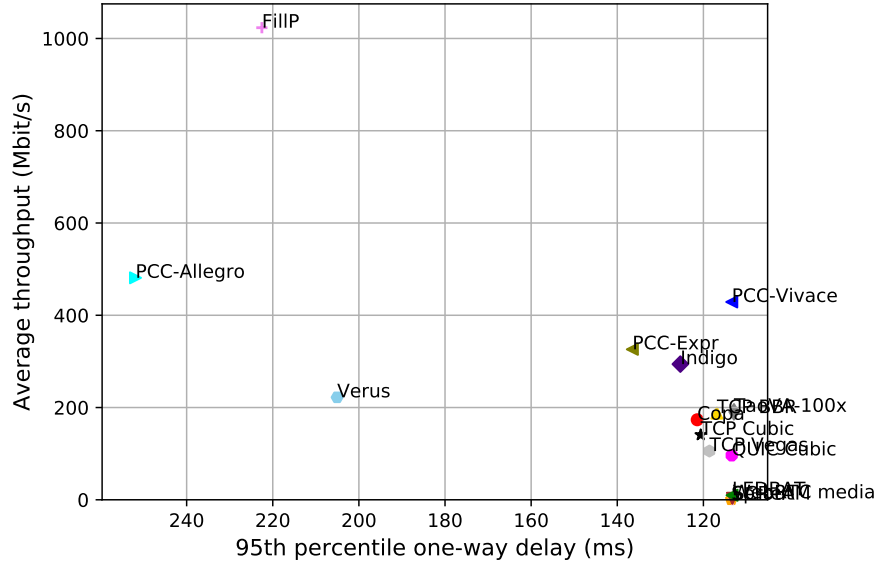
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

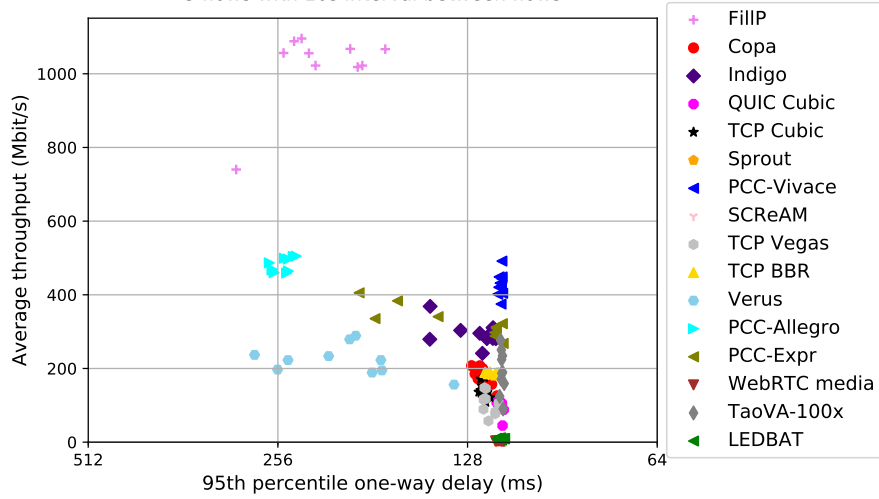
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/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 London, 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 London, 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	96.07	94.75	86.96	115.42	116.82	118.46	0.01	0.02	0.01
Copa	10	94.93	79.14	82.32	118.57	121.85	129.14	0.00	0.00	0.00
TCP Cubic	10	86.56	58.28	46.58	120.18	121.36	121.68	0.02	0.04	0.13
FillP	10	555.92	503.73	400.02	236.99	161.97	123.05	1.16	0.37	0.03
Indigo	10	147.08	158.35	131.32	121.11	125.38	128.82	0.00	0.00	0.01
LEDBAT	10	6.26	4.62	1.49	113.42	113.24	112.57	0.01	0.00	0.00
PCC-Allegro	10	446.87	45.40	12.61	251.90	251.47	242.54	3.51	3.35	4.91
PCC-Expr	10	197.99	155.59	74.73	136.66	131.22	130.13	0.14	0.12	0.19
QUIC Cubic	10	48.68	50.04	44.52	112.75	113.18	112.22	0.00	0.00	0.01
SCReAM	10	0.21	0.21	0.21	112.59	112.34	112.44	0.00	0.00	0.00
Sprout	10	0.21	0.21	0.25	113.14	112.95	113.13	0.02	0.00	0.00
TaoVA-100x	10	94.69	108.14	72.44	112.78	112.70	113.78	0.00	0.00	0.00
TCP Vegas	10	60.76	48.55	38.09	118.61	118.01	117.76	0.01	0.01	0.10
Verus	10	126.57	116.40	60.76	200.63	204.66	190.68	1.03	1.23	4.09
PCC-Vivace	10	260.39	188.26	131.09	113.95	112.81	112.71	0.00	0.00	0.00
WebRTC media	10	1.85	1.05	0.39	112.21	112.80	112.85	0.00	0.00	0.00

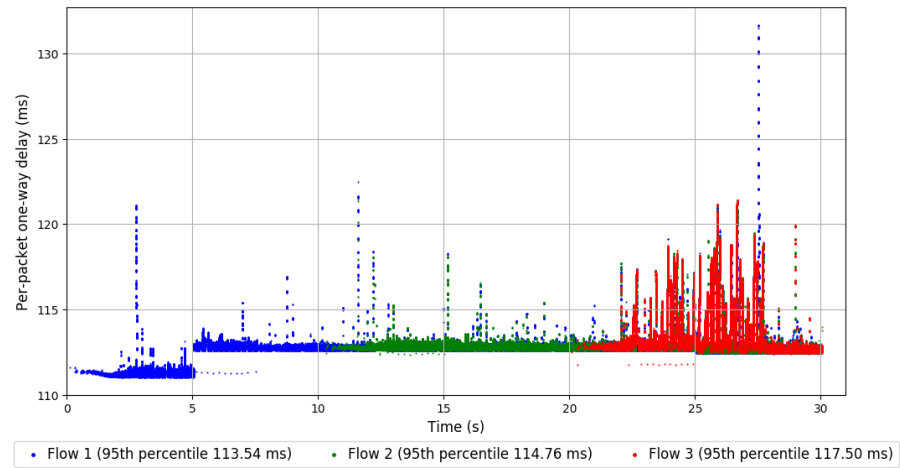
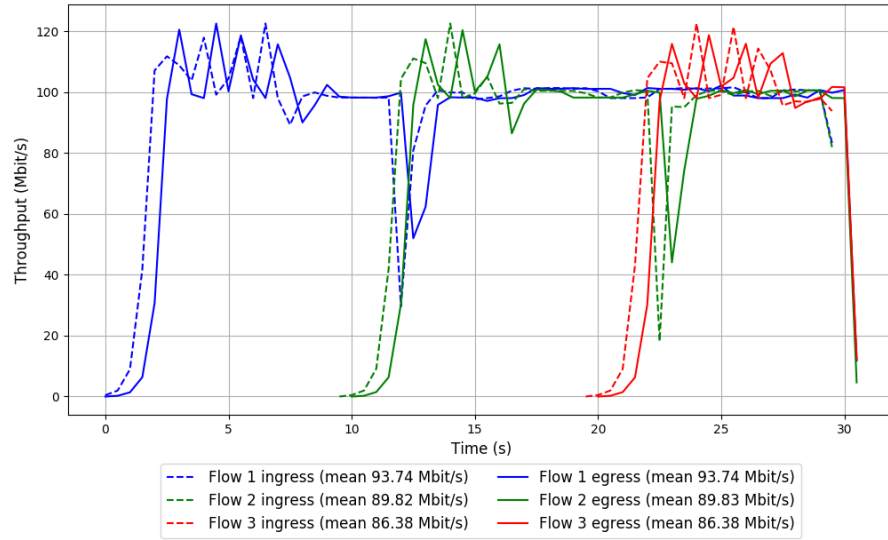
Run 1: Statistics of TCP BBR

Start at: 2018-06-05 08:16:00  
End at: 2018-06-05 08:16:30  
Local clock offset: -0.257 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-06-05 12:24:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 182.31 Mbit/s  
95th percentile per-packet one-way delay: 115.423 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 93.74 Mbit/s  
95th percentile per-packet one-way delay: 113.538 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 89.83 Mbit/s  
95th percentile per-packet one-way delay: 114.757 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 86.38 Mbit/s  
95th percentile per-packet one-way delay: 117.498 ms  
Loss rate: 0.00%



# Run 1: Report of TCP BBR — Data Link

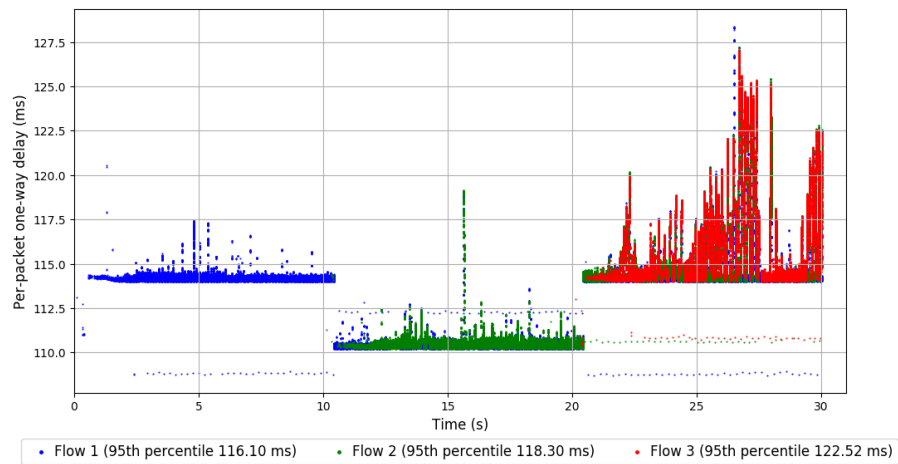
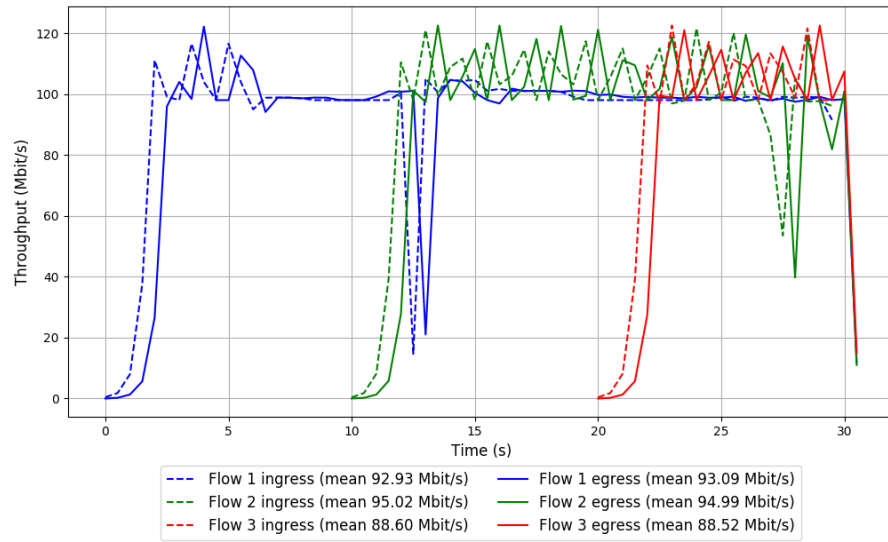


Run 2: Statistics of TCP BBR

Start at: 2018-06-05 08:39:34  
End at: 2018-06-05 08:40:04  
Local clock offset: -0.167 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-06-05 12:24:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 185.54 Mbit/s  
95th percentile per-packet one-way delay: 118.672 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 93.09 Mbit/s  
95th percentile per-packet one-way delay: 116.101 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 94.99 Mbit/s  
95th percentile per-packet one-way delay: 118.304 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 88.52 Mbit/s  
95th percentile per-packet one-way delay: 122.518 ms  
Loss rate: 0.00%

## Run 2: Report of TCP BBR — Data Link

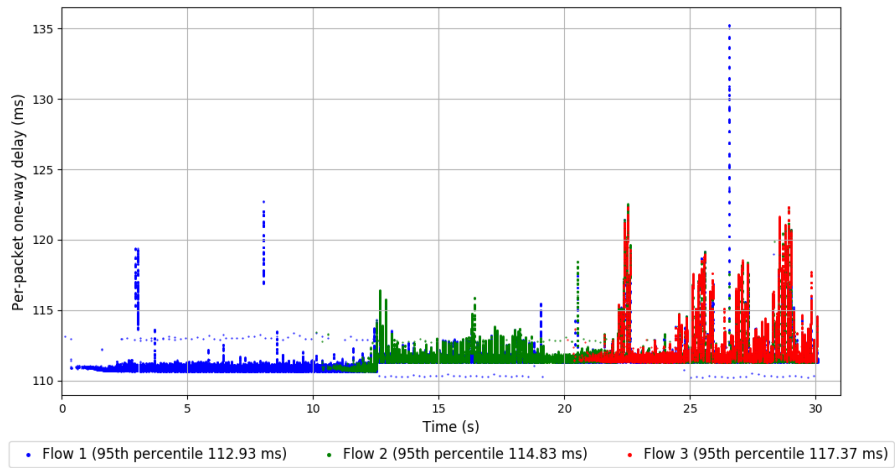
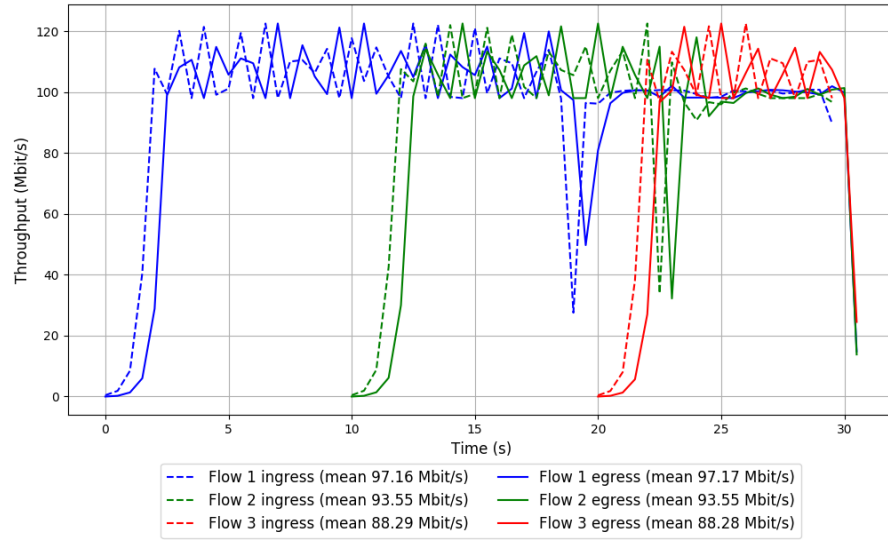


Run 3: Statistics of TCP BBR

Start at: 2018-06-05 09:03:32  
End at: 2018-06-05 09:04:02  
Local clock offset: -0.122 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-05 12:24:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 188.62 Mbit/s  
95th percentile per-packet one-way delay: 115.144 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.17 Mbit/s  
95th percentile per-packet one-way delay: 112.932 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 93.55 Mbit/s  
95th percentile per-packet one-way delay: 114.830 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 88.28 Mbit/s  
95th percentile per-packet one-way delay: 117.371 ms  
Loss rate: 0.00%

### Run 3: Report of TCP BBR — Data Link

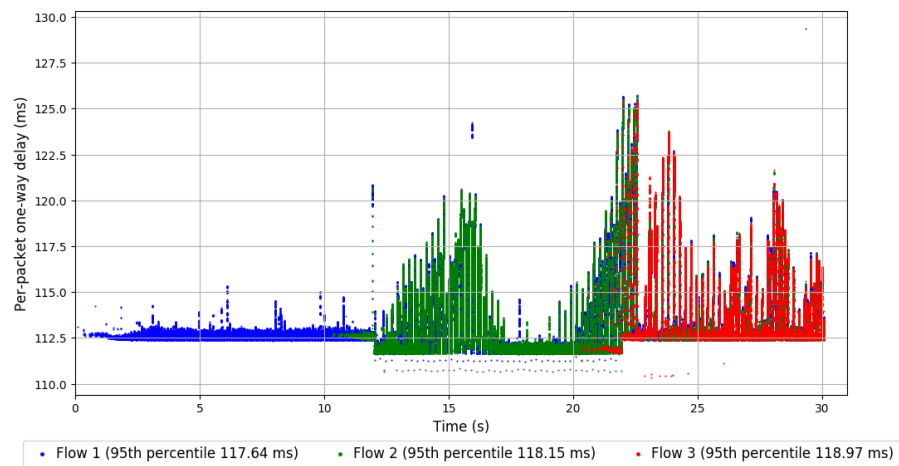
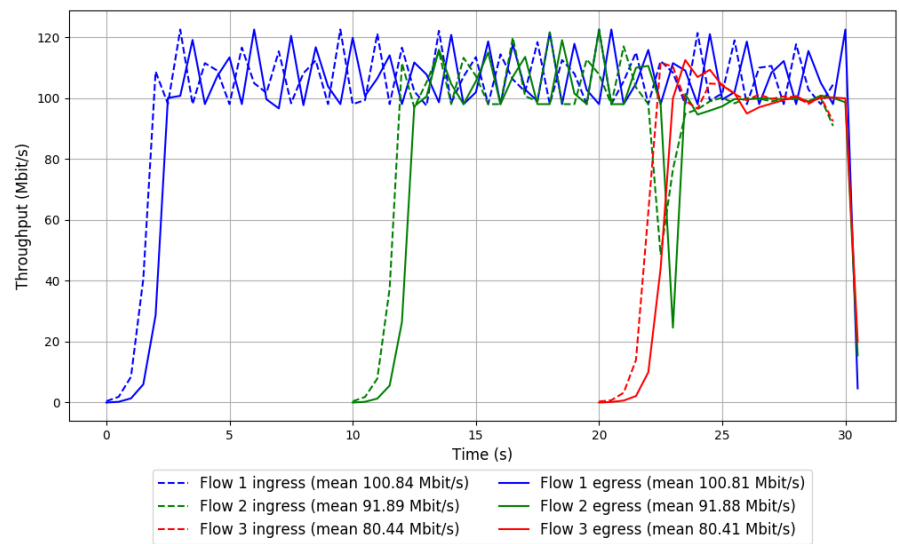


Run 4: Statistics of TCP BBR

Start at: 2018-06-05 09:27:23  
End at: 2018-06-05 09:27:53  
Local clock offset: 0.0 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-05 12:24:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 188.70 Mbit/s  
95th percentile per-packet one-way delay: 117.992 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 100.81 Mbit/s  
95th percentile per-packet one-way delay: 117.637 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 91.88 Mbit/s  
95th percentile per-packet one-way delay: 118.153 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 80.41 Mbit/s  
95th percentile per-packet one-way delay: 118.973 ms  
Loss rate: 0.04%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-05 09:51:04

End at: 2018-06-05 09:51:34

Local clock offset: 0.12 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-06-05 12:24:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 187.73 Mbit/s

95th percentile per-packet one-way delay: 113.419 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 93.13 Mbit/s

95th percentile per-packet one-way delay: 112.977 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 98.42 Mbit/s

95th percentile per-packet one-way delay: 113.923 ms

Loss rate: 0.11%

-- Flow 3:

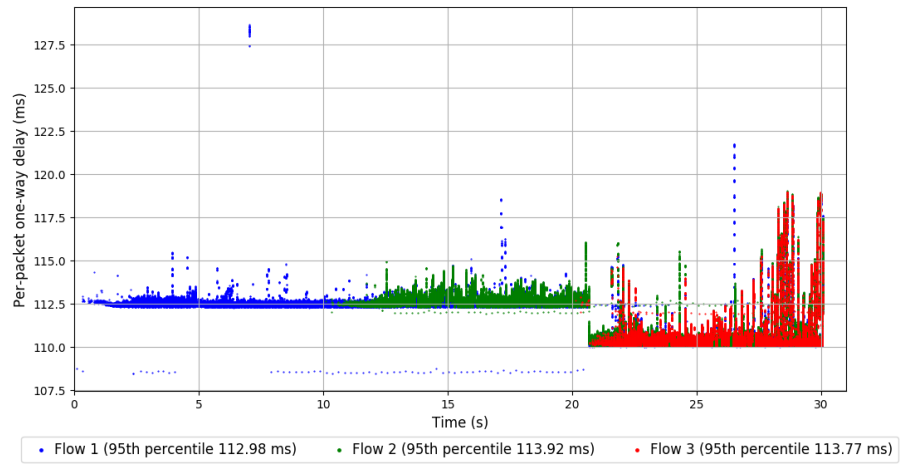
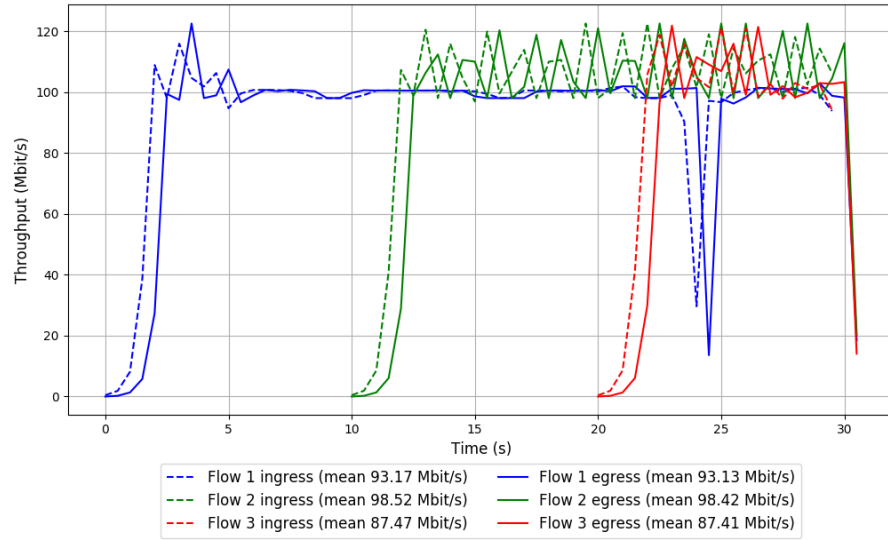
Average throughput: 87.41 Mbit/s

95th percentile per-packet one-way delay: 113.766 ms

Loss rate: 0.11%



## Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-05 10:14:36

End at: 2018-06-05 10:15:06

Local clock offset: -0.324 ms

Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2018-06-05 12:24:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 189.41 Mbit/s

95th percentile per-packet one-way delay: 120.175 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 98.70 Mbit/s

95th percentile per-packet one-way delay: 120.458 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 120.243 ms

Loss rate: 0.00%

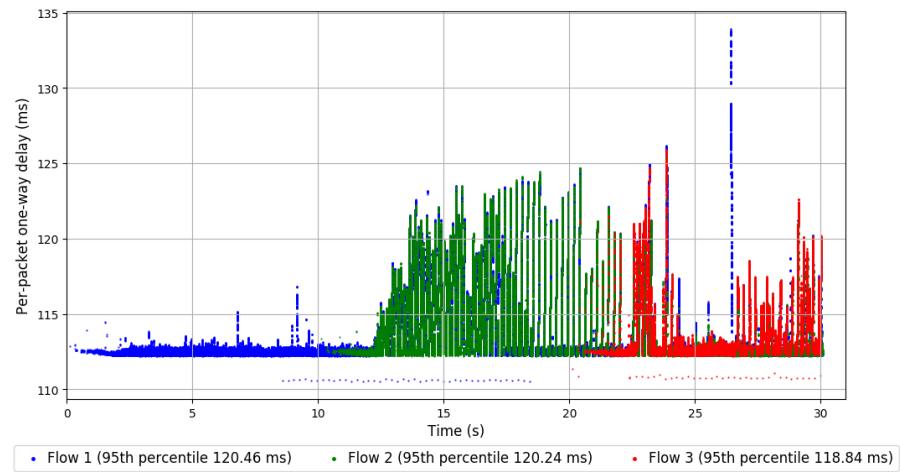
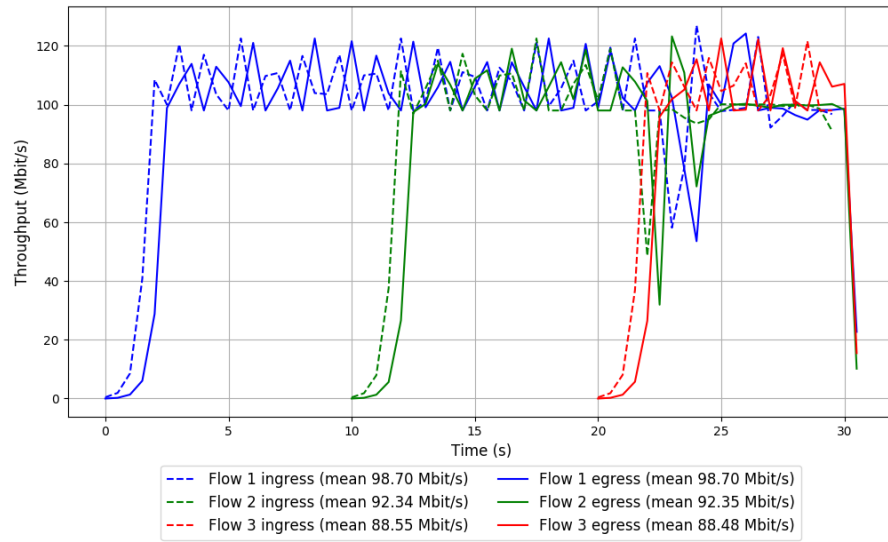
-- Flow 3:

Average throughput: 88.48 Mbit/s

95th percentile per-packet one-way delay: 118.843 ms

Loss rate: 0.00%

# Run 6: Report of TCP BBR — Data Link

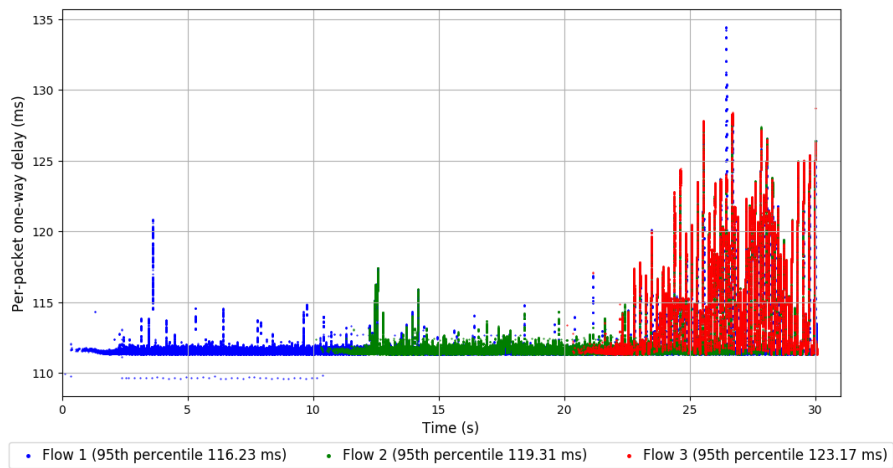
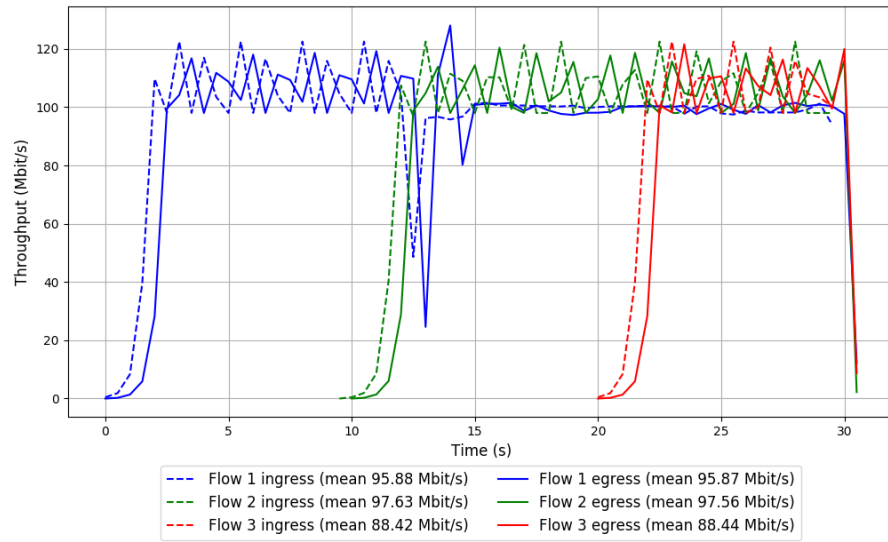


Run 7: Statistics of TCP BBR

Start at: 2018-06-05 10:38:24  
End at: 2018-06-05 10:38:54  
Local clock offset: -0.115 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2018-06-05 12:24:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 189.97 Mbit/s  
95th percentile per-packet one-way delay: 119.958 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 95.87 Mbit/s  
95th percentile per-packet one-way delay: 116.230 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 97.56 Mbit/s  
95th percentile per-packet one-way delay: 119.310 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 88.44 Mbit/s  
95th percentile per-packet one-way delay: 123.169 ms  
Loss rate: 0.00%

## Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-05 11:02:20

End at: 2018-06-05 11:02:50

Local clock offset: -0.422 ms

Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2018-06-05 12:24:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 189.43 Mbit/s

95th percentile per-packet one-way delay: 114.269 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 113.222 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 98.83 Mbit/s

95th percentile per-packet one-way delay: 113.903 ms

Loss rate: 0.00%

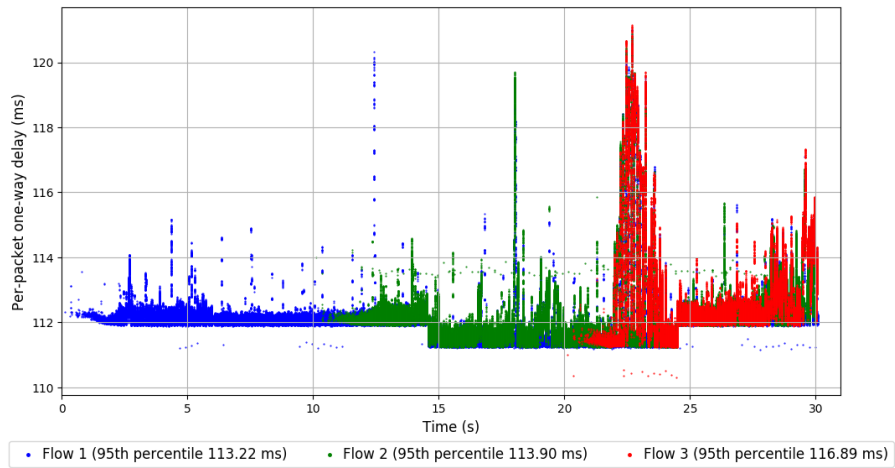
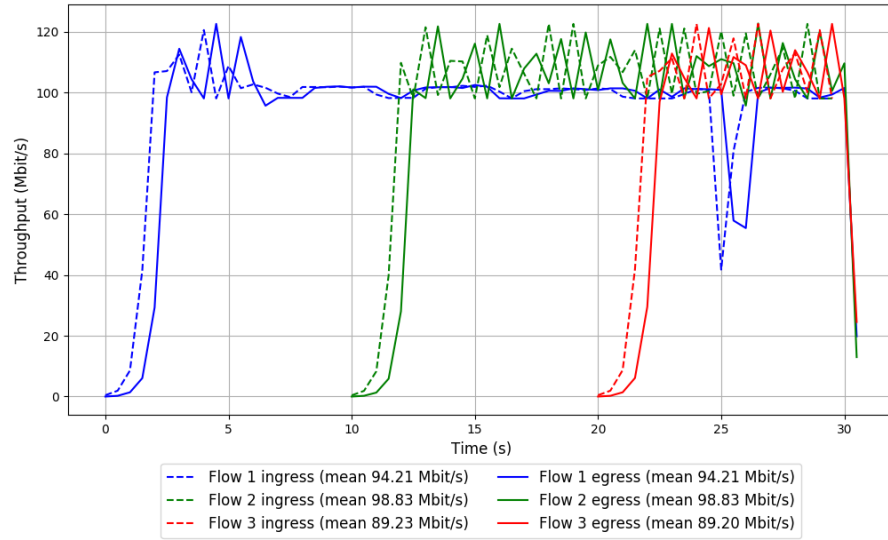
-- Flow 3:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 116.885 ms

Loss rate: 0.00%

# Run 8: Report of TCP BBR — Data Link



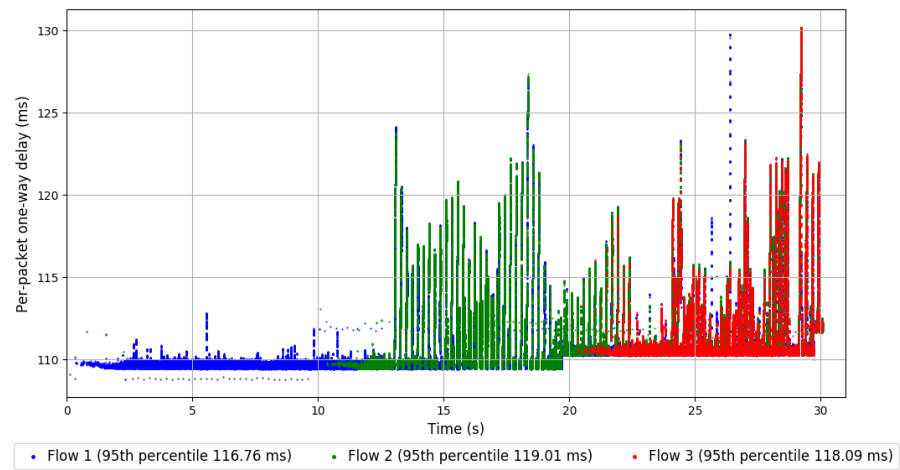
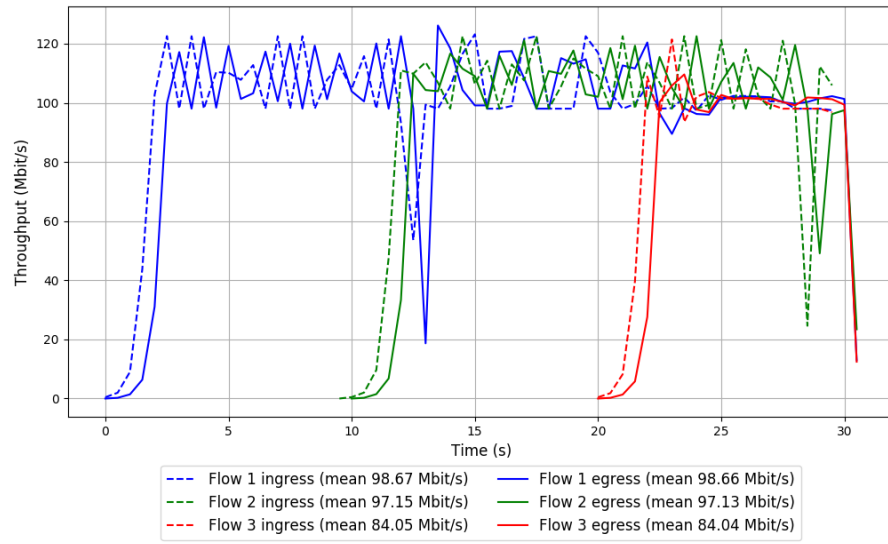
Run 9: Statistics of TCP BBR

Start at: 2018-06-05 11:26:05  
End at: 2018-06-05 11:26:35  
Local clock offset: -0.092 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-06-05 12:26:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 191.14 Mbit/s  
95th percentile per-packet one-way delay: 117.947 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 98.66 Mbit/s  
95th percentile per-packet one-way delay: 116.764 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 97.13 Mbit/s  
95th percentile per-packet one-way delay: 119.006 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 84.04 Mbit/s  
95th percentile per-packet one-way delay: 118.094 ms  
Loss rate: 0.00%



### Run 9: Report of TCP BBR — Data Link

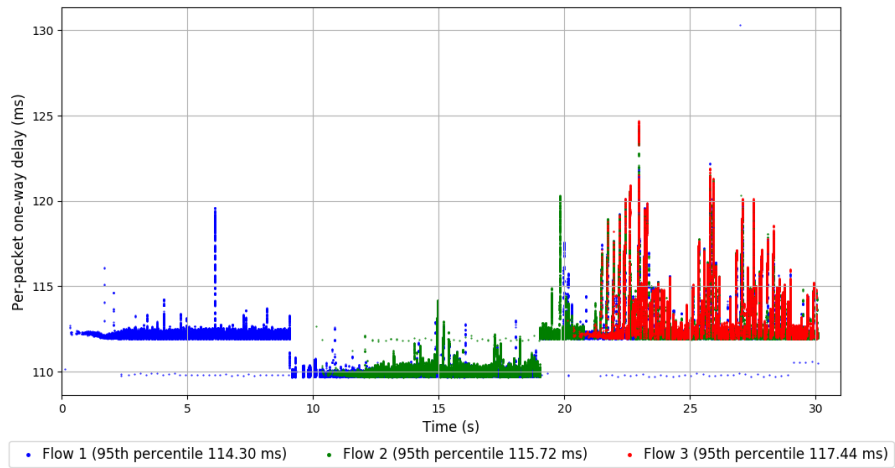
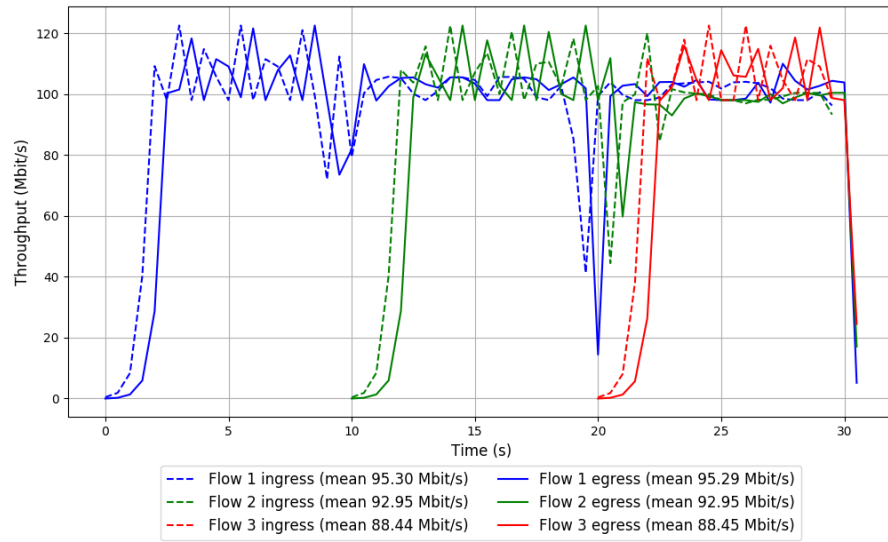


Run 10: Statistics of TCP BBR

Start at: 2018-06-05 11:49:46  
End at: 2018-06-05 11:50:16  
Local clock offset: -0.348 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-05 12:26:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 186.41 Mbit/s  
95th percentile per-packet one-way delay: 115.610 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 95.29 Mbit/s  
95th percentile per-packet one-way delay: 114.303 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 92.95 Mbit/s  
95th percentile per-packet one-way delay: 115.725 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 88.45 Mbit/s  
95th percentile per-packet one-way delay: 117.436 ms  
Loss rate: 0.00%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-05 08:32:03

End at: 2018-06-05 08:32:33

Local clock offset: -0.398 ms

Remote clock offset: 0.305 ms

# Below is generated by plot.py at 2018-06-05 12:27:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 125.71 Mbit/s

95th percentile per-packet one-way delay: 114.923 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.28 Mbit/s

95th percentile per-packet one-way delay: 115.746 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.25 Mbit/s

95th percentile per-packet one-way delay: 114.806 ms

Loss rate: 0.00%

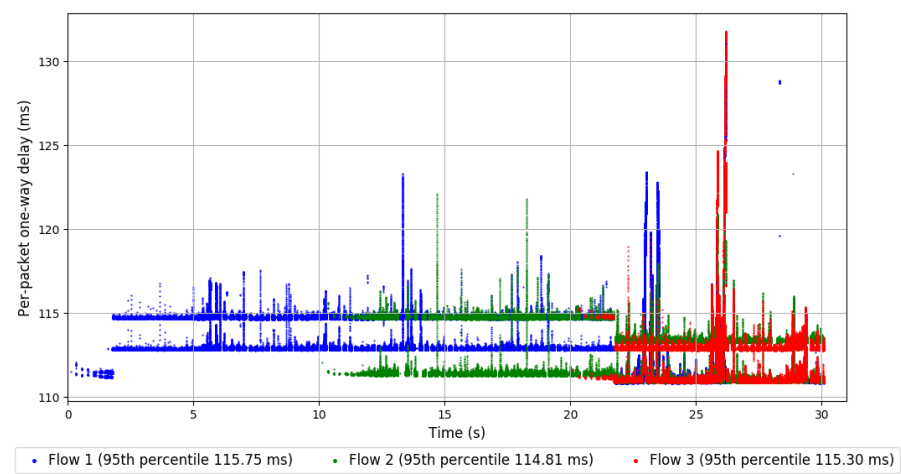
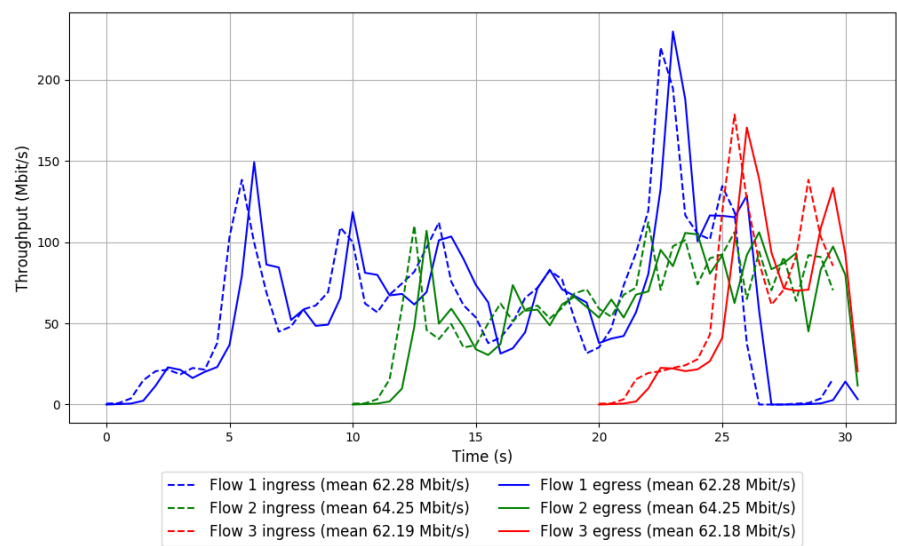
-- Flow 3:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 115.300 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

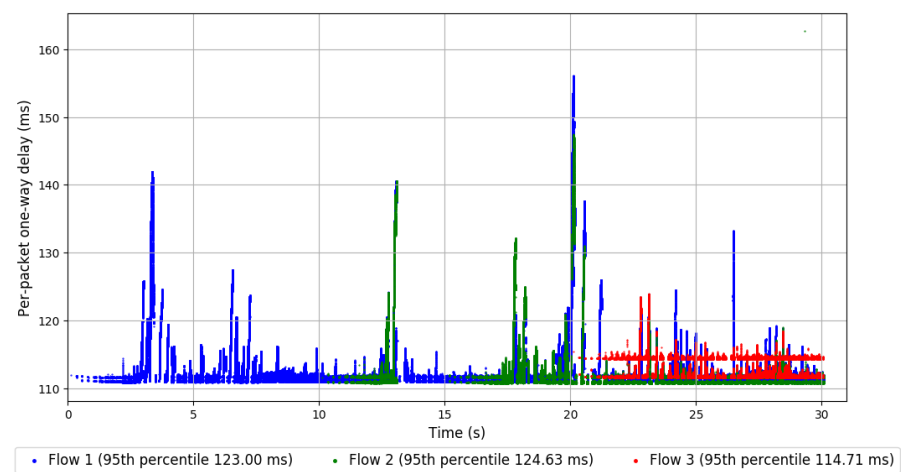
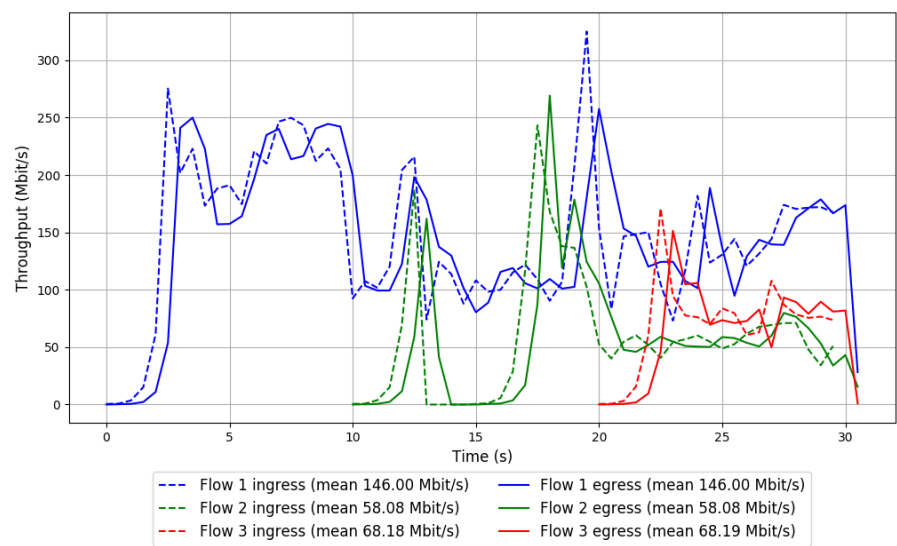


Run 2: Statistics of Copa

Start at: 2018-06-05 08:55:37  
End at: 2018-06-05 08:56:07  
Local clock offset: -0.348 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-05 12:30:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 207.28 Mbit/s  
95th percentile per-packet one-way delay: 122.378 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 146.00 Mbit/s  
95th percentile per-packet one-way delay: 123.004 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 58.08 Mbit/s  
95th percentile per-packet one-way delay: 124.633 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 68.19 Mbit/s  
95th percentile per-packet one-way delay: 114.714 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



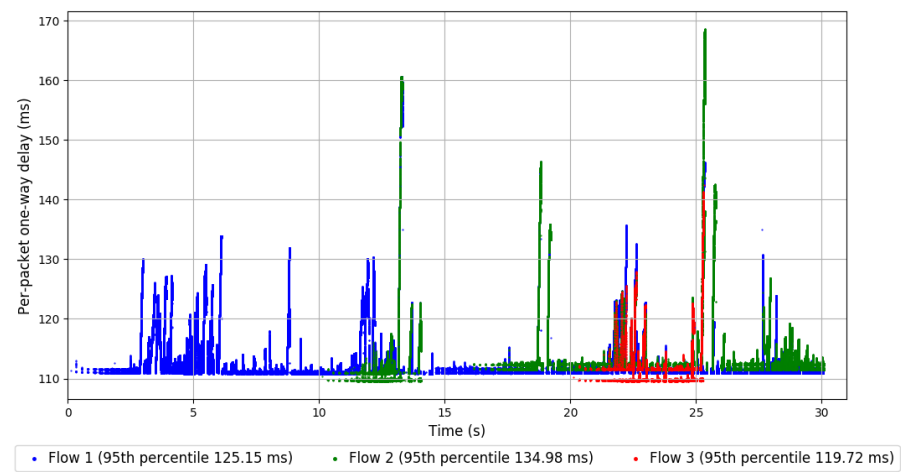
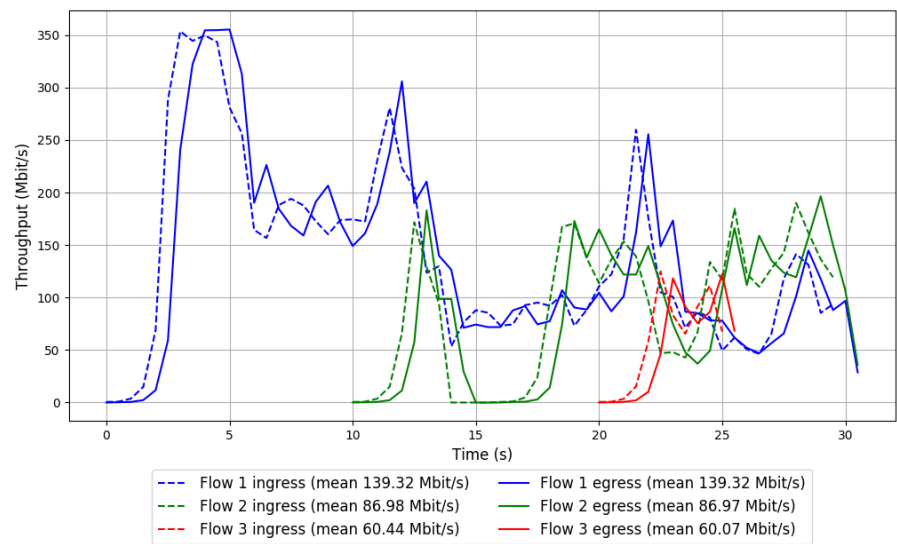
Run 3: Statistics of Copa

Start at: 2018-06-05 09:19:30  
End at: 2018-06-05 09:20:00  
Local clock offset: -0.269 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-05 12:30:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 207.56 Mbit/s  
95th percentile per-packet one-way delay: 126.139 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 139.32 Mbit/s  
95th percentile per-packet one-way delay: 125.151 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 86.97 Mbit/s  
95th percentile per-packet one-way delay: 134.983 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 60.07 Mbit/s  
95th percentile per-packet one-way delay: 119.724 ms  
Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-05 09:43:24

End at: 2018-06-05 09:43:54

Local clock offset: -0.479 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-06-05 12:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 155.59 Mbit/s

95th percentile per-packet one-way delay: 120.753 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 113.928 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 89.97 Mbit/s

95th percentile per-packet one-way delay: 115.219 ms

Loss rate: 0.00%

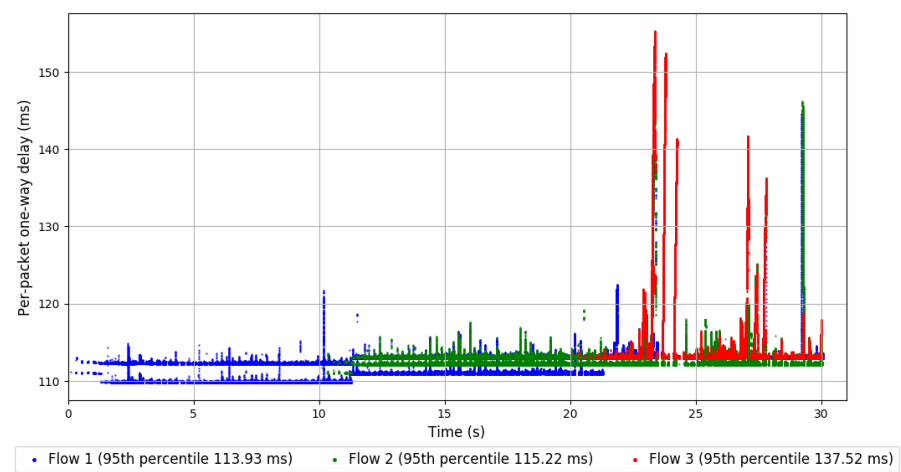
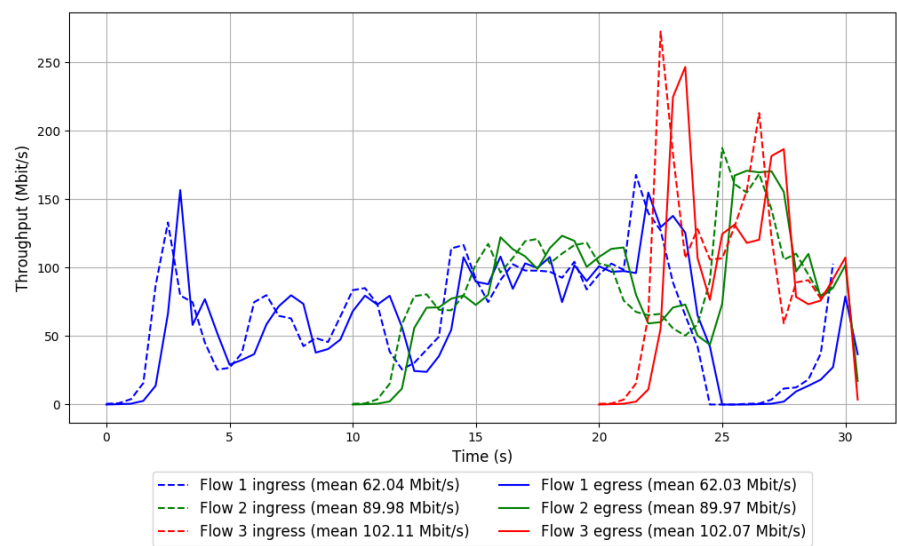
-- Flow 3:

Average throughput: 102.07 Mbit/s

95th percentile per-packet one-way delay: 137.517 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

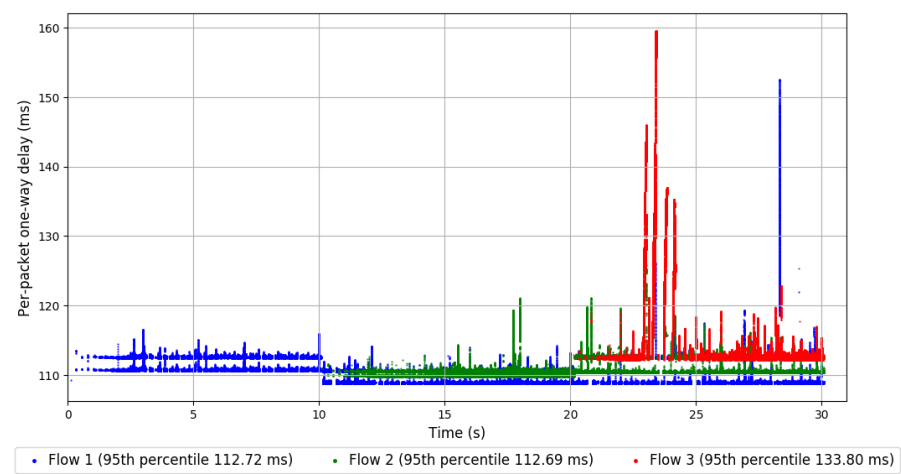
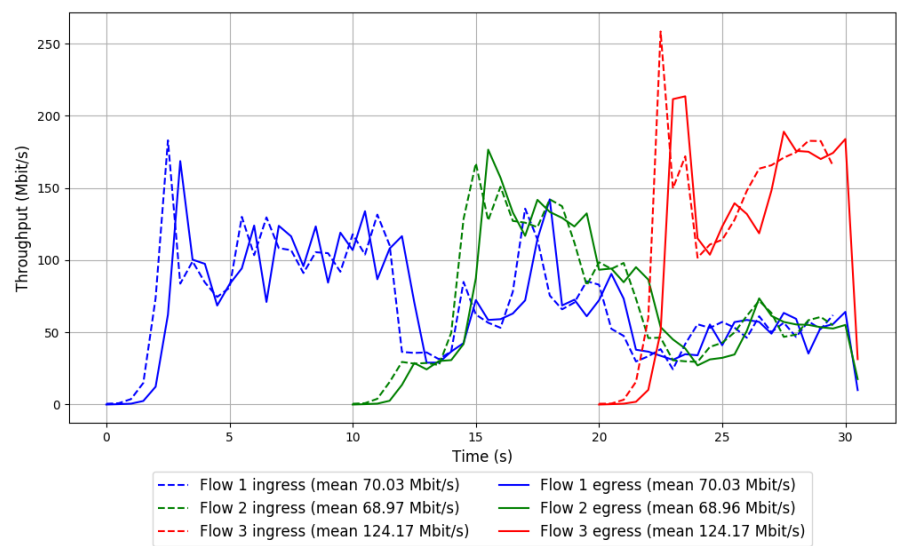


Run 5: Statistics of Copa

Start at: 2018-06-05 10:06:55  
End at: 2018-06-05 10:07:25  
Local clock offset: -0.257 ms  
Remote clock offset: -0.076 ms

```
# Below is generated by plot.py at 2018-06-05 12:30:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 157.11 Mbit/s
95th percentile per-packet one-way delay: 117.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 70.03 Mbit/s
95th percentile per-packet one-way delay: 112.719 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 68.96 Mbit/s
95th percentile per-packet one-way delay: 112.686 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 124.17 Mbit/s
95th percentile per-packet one-way delay: 133.803 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-05 10:30:43

End at: 2018-06-05 10:31:13

Local clock offset: -0.295 ms

Remote clock offset: -0.48 ms

# Below is generated by plot.py at 2018-06-05 12:30:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 185.39 Mbit/s

95th percentile per-packet one-way delay: 122.661 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 120.71 Mbit/s

95th percentile per-packet one-way delay: 120.132 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.36 Mbit/s

95th percentile per-packet one-way delay: 115.911 ms

Loss rate: 0.00%

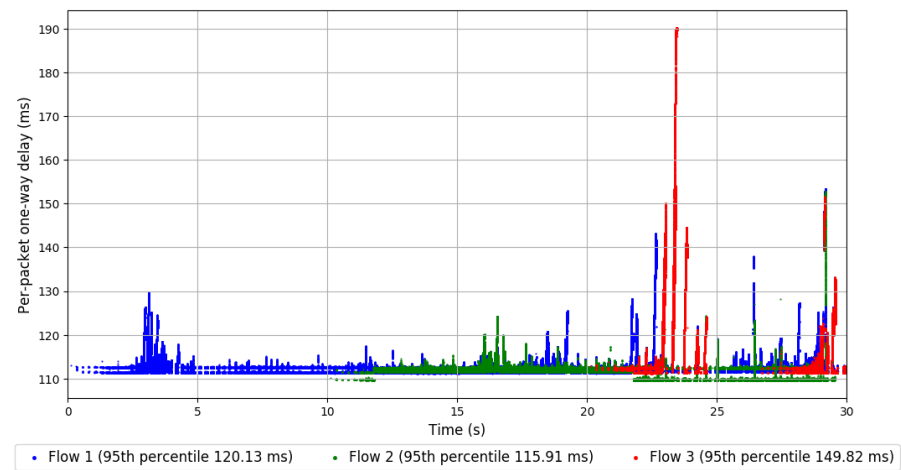
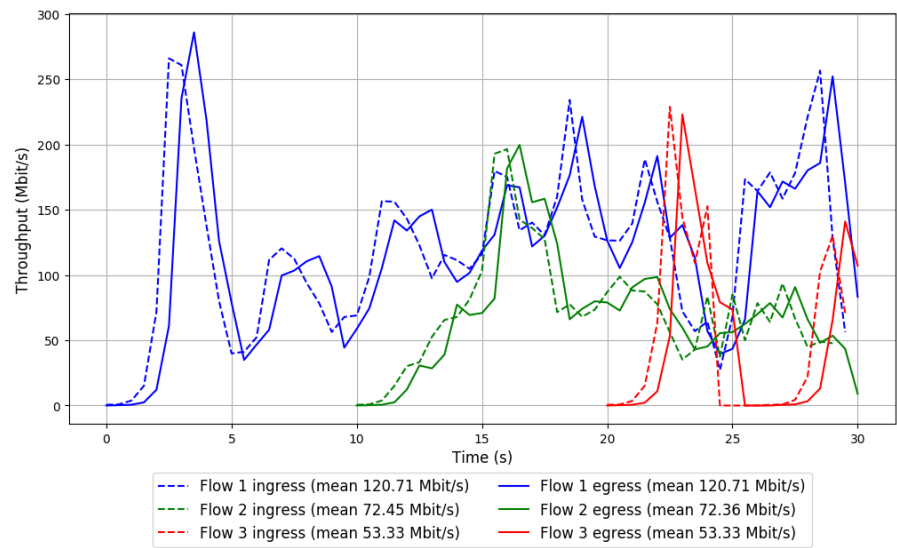
-- Flow 3:

Average throughput: 53.33 Mbit/s

95th percentile per-packet one-way delay: 149.816 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



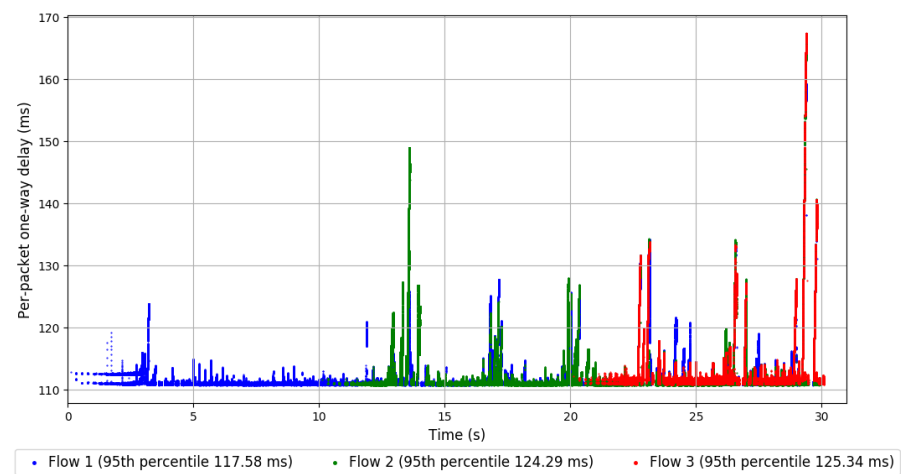
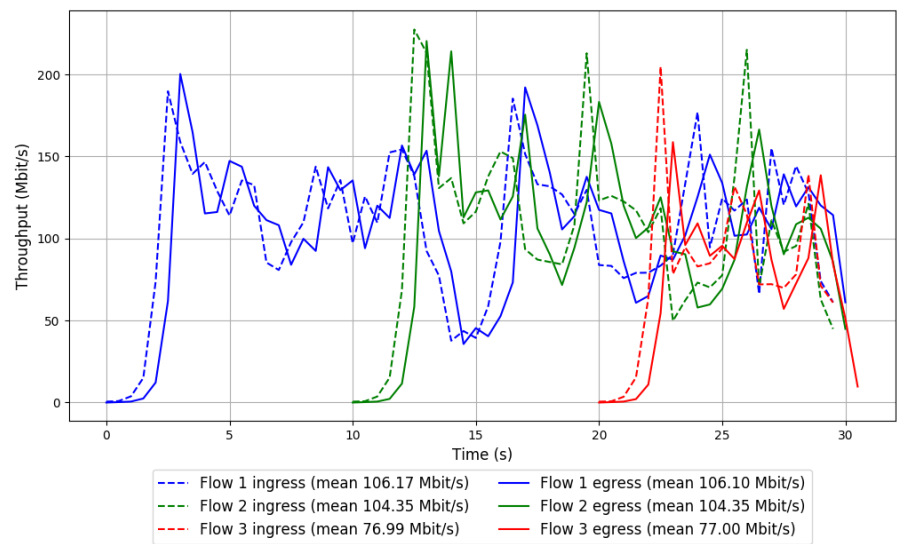
Run 7: Statistics of Copa

Start at: 2018-06-05 10:54:32  
End at: 2018-06-05 10:55:02  
Local clock offset: -0.474 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-06-05 12:34:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 199.60 Mbit/s  
95th percentile per-packet one-way delay: 121.122 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 106.10 Mbit/s  
95th percentile per-packet one-way delay: 117.578 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 104.35 Mbit/s  
95th percentile per-packet one-way delay: 124.286 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 77.00 Mbit/s  
95th percentile per-packet one-way delay: 125.342 ms  
Loss rate: 0.00%



Run 7: Report of Copa — Data Link

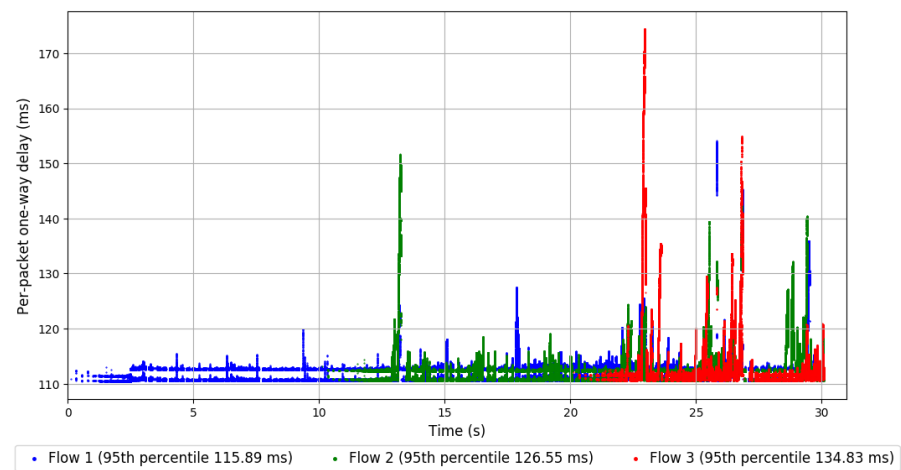
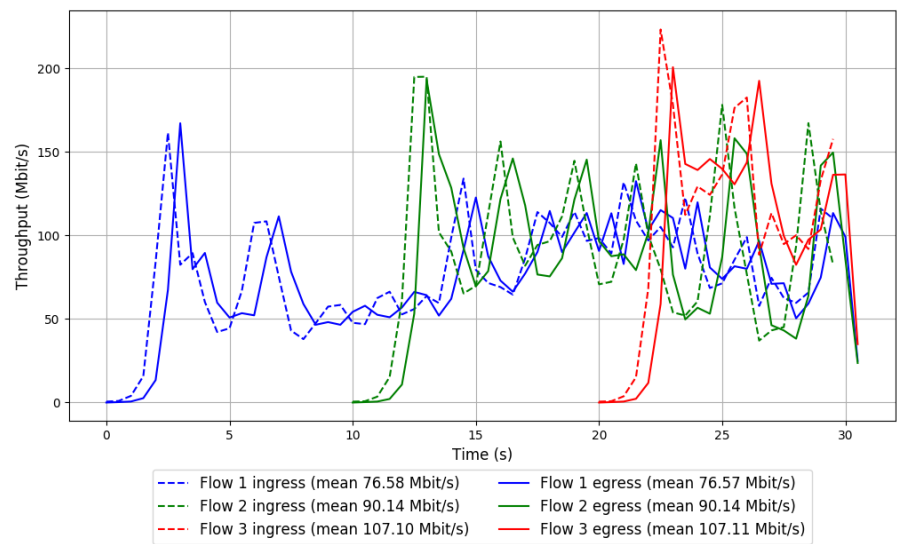


Run 8: Statistics of Copa

Start at: 2018-06-05 11:18:22  
End at: 2018-06-05 11:18:52  
Local clock offset: -0.054 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-05 12:34:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 172.12 Mbit/s  
95th percentile per-packet one-way delay: 123.181 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 76.57 Mbit/s  
95th percentile per-packet one-way delay: 115.893 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 90.14 Mbit/s  
95th percentile per-packet one-way delay: 126.554 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 107.11 Mbit/s  
95th percentile per-packet one-way delay: 134.834 ms  
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

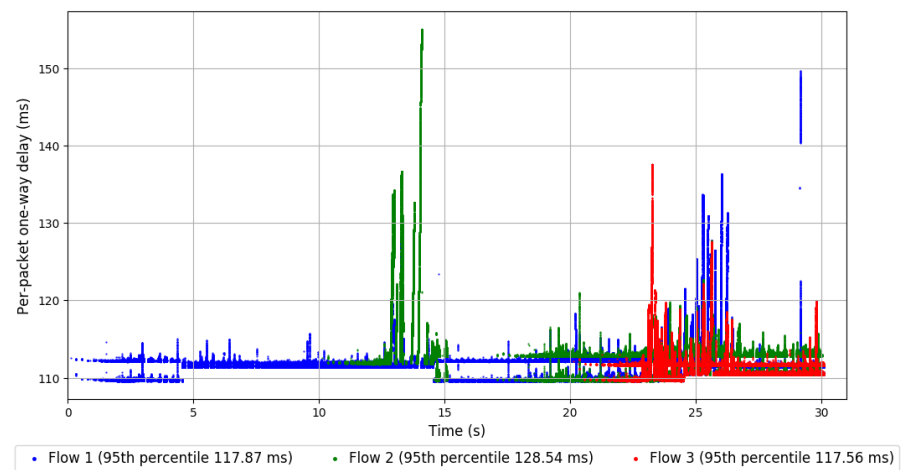
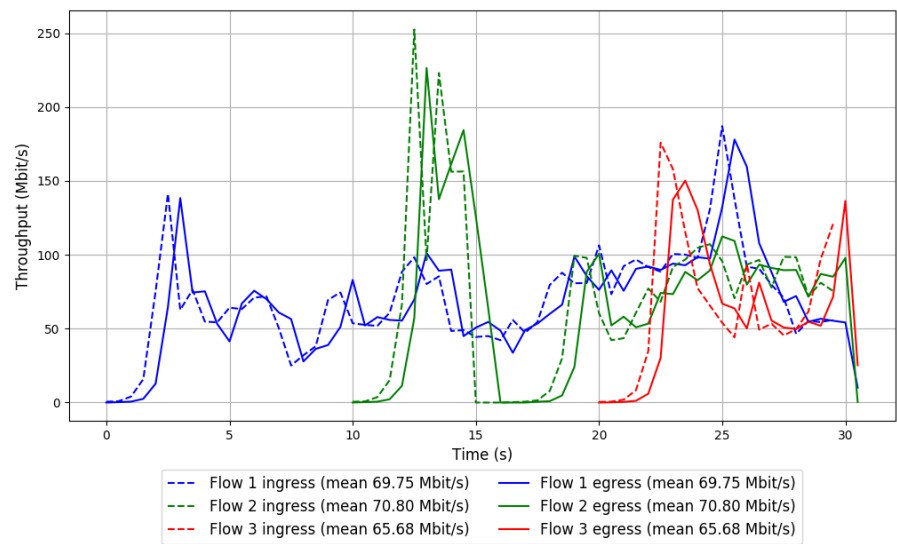


Run 9: Statistics of Copa

Start at: 2018-06-05 11:42:10  
End at: 2018-06-05 11:42:40  
Local clock offset: -0.235 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-05 12:34:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 138.61 Mbit/s  
95th percentile per-packet one-way delay: 121.483 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 69.75 Mbit/s  
95th percentile per-packet one-way delay: 117.874 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 70.80 Mbit/s  
95th percentile per-packet one-way delay: 128.543 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 65.68 Mbit/s  
95th percentile per-packet one-way delay: 117.559 ms  
Loss rate: 0.02%

Run 9: Report of Copa — Data Link

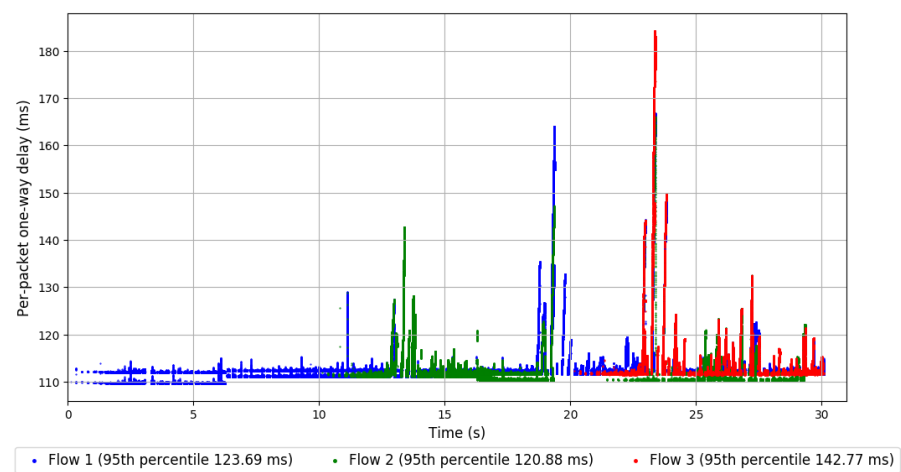
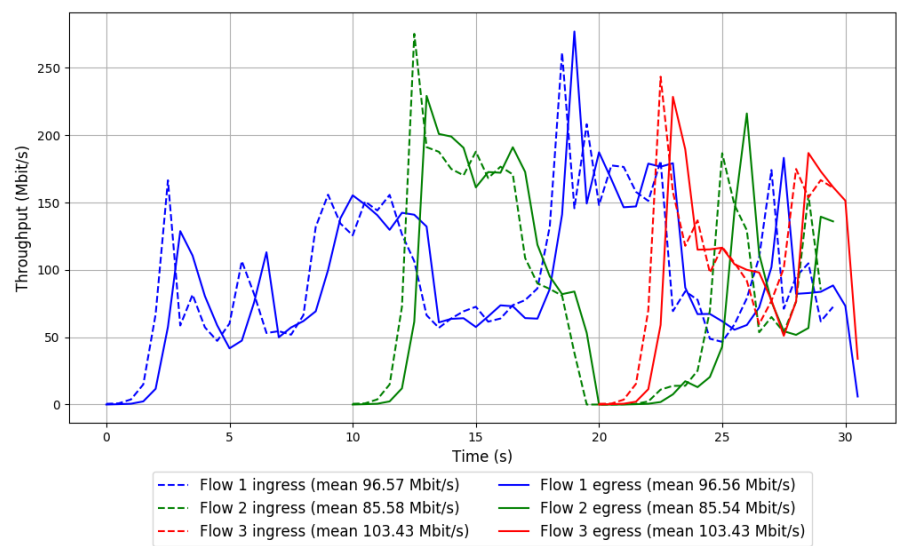


Run 10: Statistics of Copa

Start at: 2018-06-05 12:05:49  
End at: 2018-06-05 12:06:19  
Local clock offset: -0.293 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2018-06-05 12:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 185.66 Mbit/s  
95th percentile per-packet one-way delay: 124.530 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 96.56 Mbit/s  
95th percentile per-packet one-way delay: 123.694 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 85.54 Mbit/s  
95th percentile per-packet one-way delay: 120.876 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 103.43 Mbit/s  
95th percentile per-packet one-way delay: 142.769 ms  
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



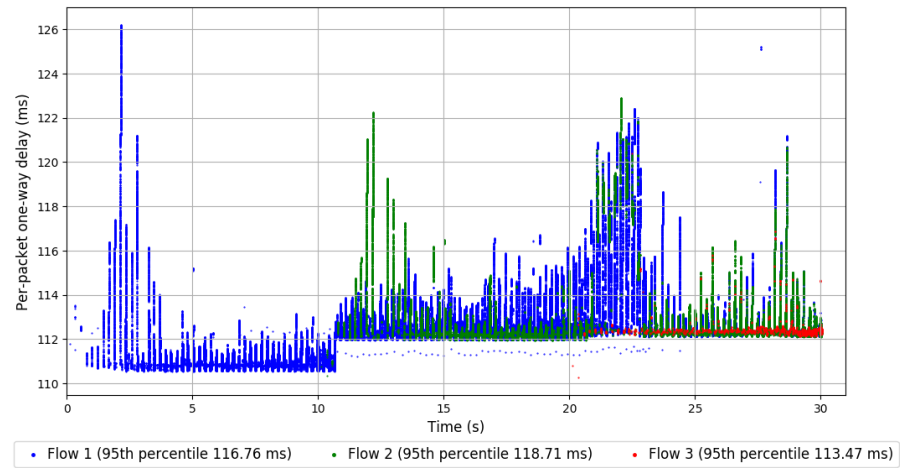
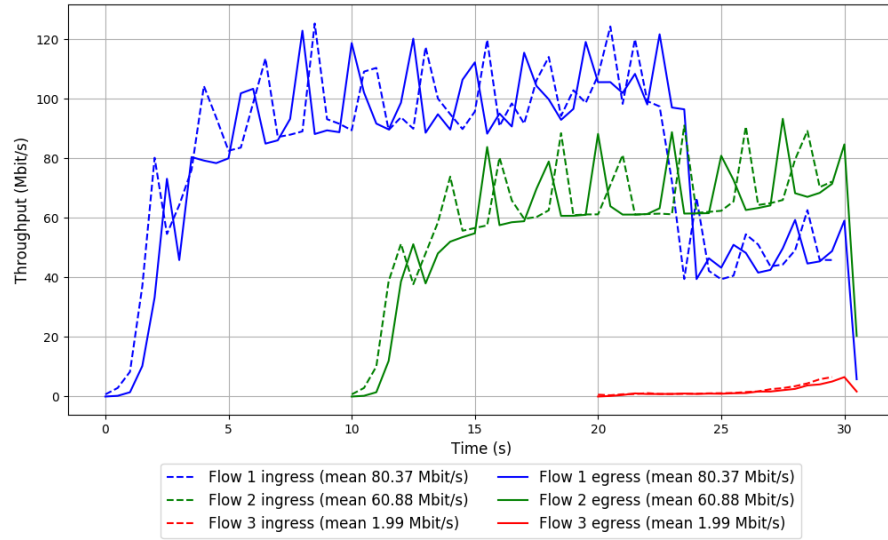
Run 1: Statistics of TCP Cubic

Start at: 2018-06-05 08:17:24  
End at: 2018-06-05 08:17:54  
Local clock offset: 0.135 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-06-05 12:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 121.57 Mbit/s  
95th percentile per-packet one-way delay: 117.778 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 80.37 Mbit/s  
95th percentile per-packet one-way delay: 116.763 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 60.88 Mbit/s  
95th percentile per-packet one-way delay: 118.706 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.99 Mbit/s  
95th percentile per-packet one-way delay: 113.467 ms  
Loss rate: 0.12%



# Run 1: Report of TCP Cubic — Data Link

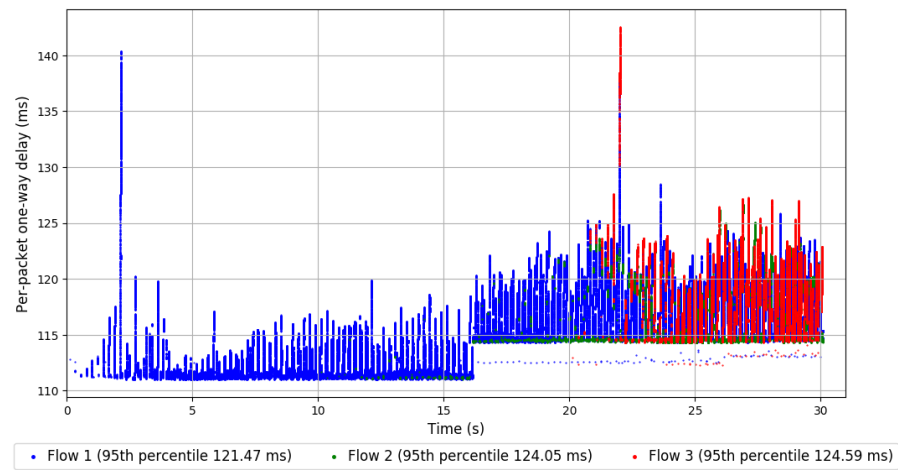
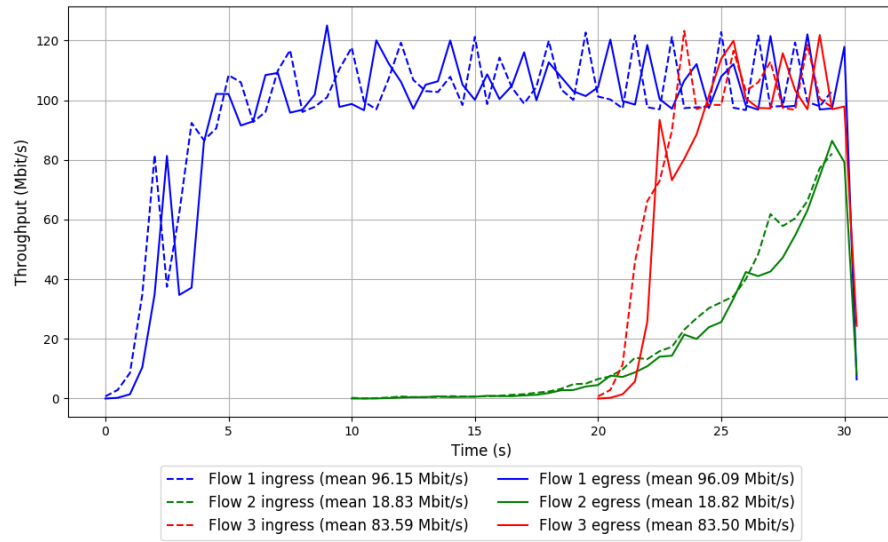


Run 2: Statistics of TCP Cubic

Start at: 2018-06-05 08:40:59  
End at: 2018-06-05 08:41:29  
Local clock offset: -0.387 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-06-05 12:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 136.25 Mbit/s  
95th percentile per-packet one-way delay: 122.804 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 96.09 Mbit/s  
95th percentile per-packet one-way delay: 121.466 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 18.82 Mbit/s  
95th percentile per-packet one-way delay: 124.046 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 83.50 Mbit/s  
95th percentile per-packet one-way delay: 124.595 ms  
Loss rate: 0.00%

## Run 2: Report of TCP Cubic — Data Link

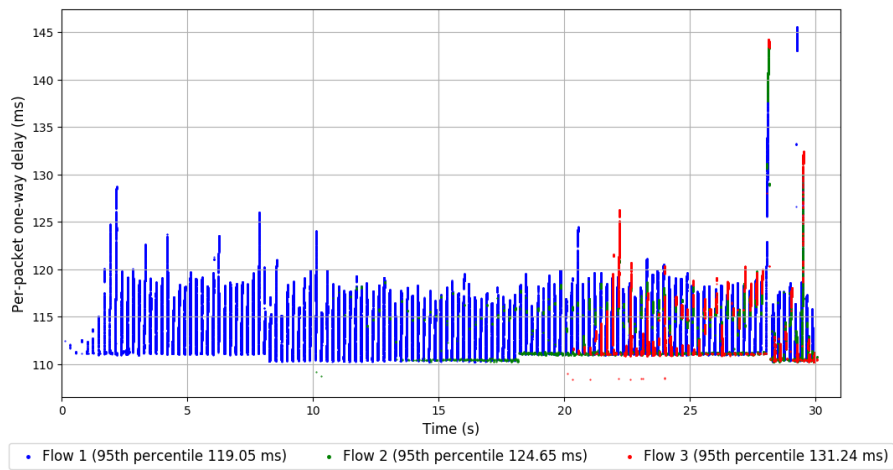
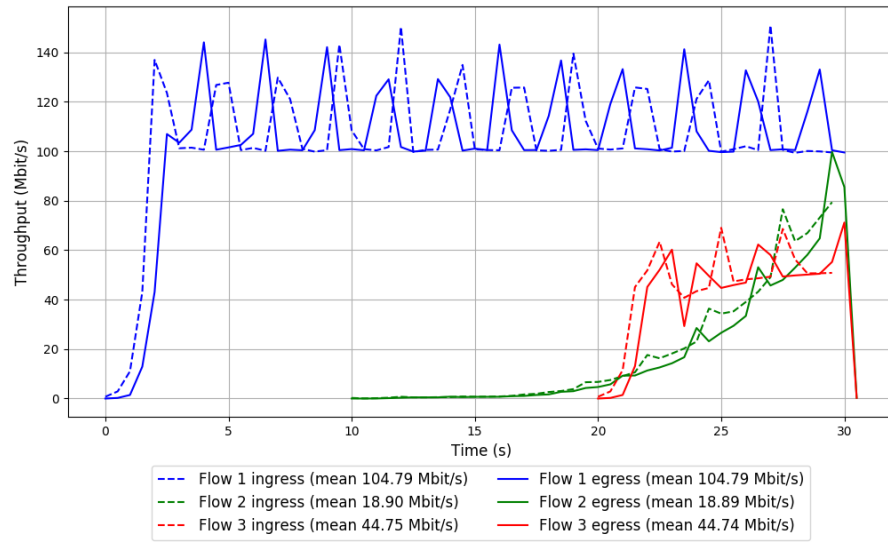


Run 3: Statistics of TCP Cubic

Start at: 2018-06-05 09:04:57  
End at: 2018-06-05 09:05:27  
Local clock offset: 0.258 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-06-05 12:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 131.79 Mbit/s  
95th percentile per-packet one-way delay: 119.476 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 104.79 Mbit/s  
95th percentile per-packet one-way delay: 119.046 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 18.89 Mbit/s  
95th percentile per-packet one-way delay: 124.650 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 44.74 Mbit/s  
95th percentile per-packet one-way delay: 131.235 ms  
Loss rate: 0.00%

### Run 3: Report of TCP Cubic — Data Link

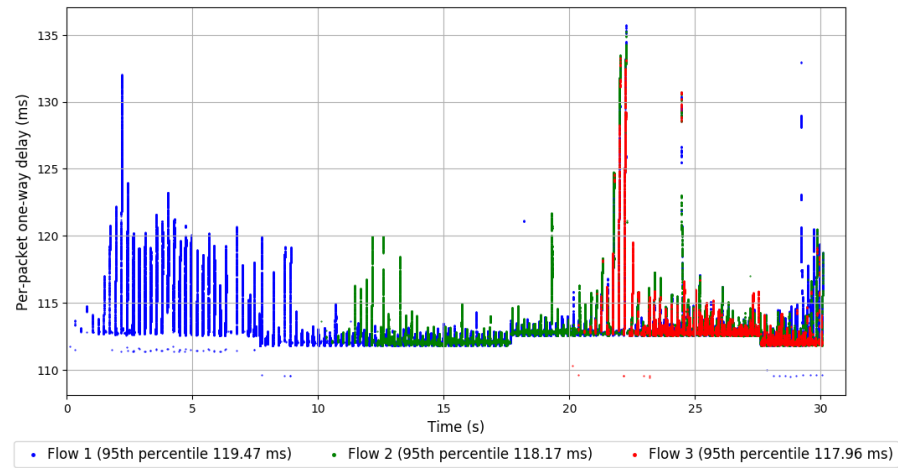
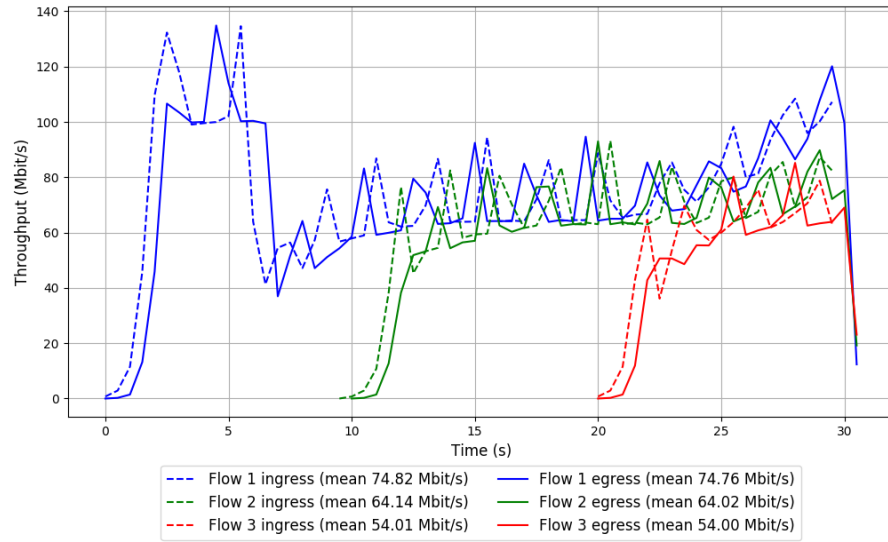


Run 4: Statistics of TCP Cubic

Start at: 2018-06-05 09:28:47  
End at: 2018-06-05 09:29:17  
Local clock offset: -0.171 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-05 12:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 135.34 Mbit/s  
95th percentile per-packet one-way delay: 119.180 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 74.76 Mbit/s  
95th percentile per-packet one-way delay: 119.472 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 64.02 Mbit/s  
95th percentile per-packet one-way delay: 118.167 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 54.00 Mbit/s  
95th percentile per-packet one-way delay: 117.961 ms  
Loss rate: 0.00%

# Run 4: Report of TCP Cubic — Data Link



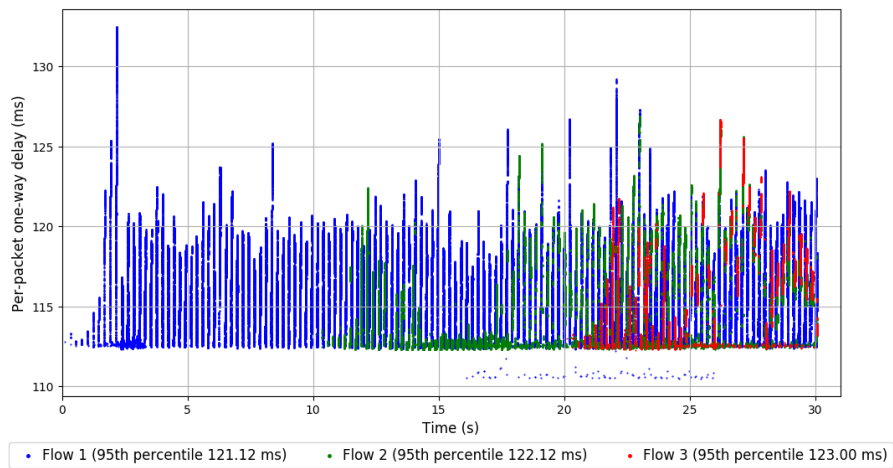
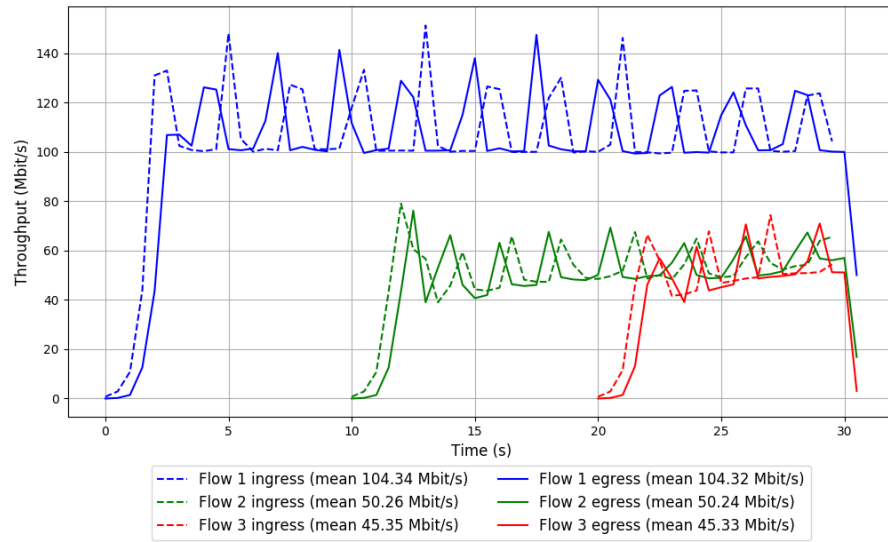
Run 5: Statistics of TCP Cubic

Start at: 2018-06-05 09:52:29  
End at: 2018-06-05 09:52:59  
Local clock offset: 0.058 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-05 12:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 152.81 Mbit/s  
95th percentile per-packet one-way delay: 121.435 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 104.32 Mbit/s  
95th percentile per-packet one-way delay: 121.125 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 50.24 Mbit/s  
95th percentile per-packet one-way delay: 122.121 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 45.33 Mbit/s  
95th percentile per-packet one-way delay: 122.997 ms  
Loss rate: 0.05%



# Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-05 10:16:01

End at: 2018-06-05 10:16:31

Local clock offset: -0.129 ms

Remote clock offset: -0.47 ms

# Below is generated by plot.py at 2018-06-05 12:35:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 133.45 Mbit/s

95th percentile per-packet one-way delay: 121.808 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 74.58 Mbit/s

95th percentile per-packet one-way delay: 121.846 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 60.99 Mbit/s

95th percentile per-packet one-way delay: 121.858 ms

Loss rate: 0.02%

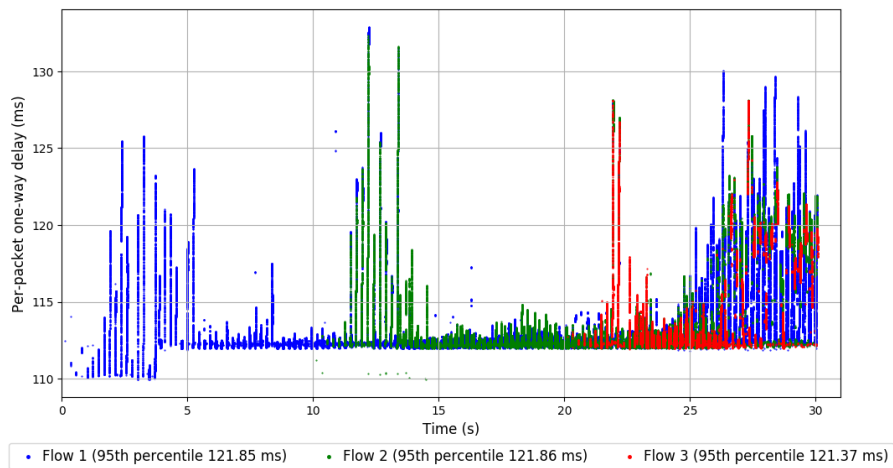
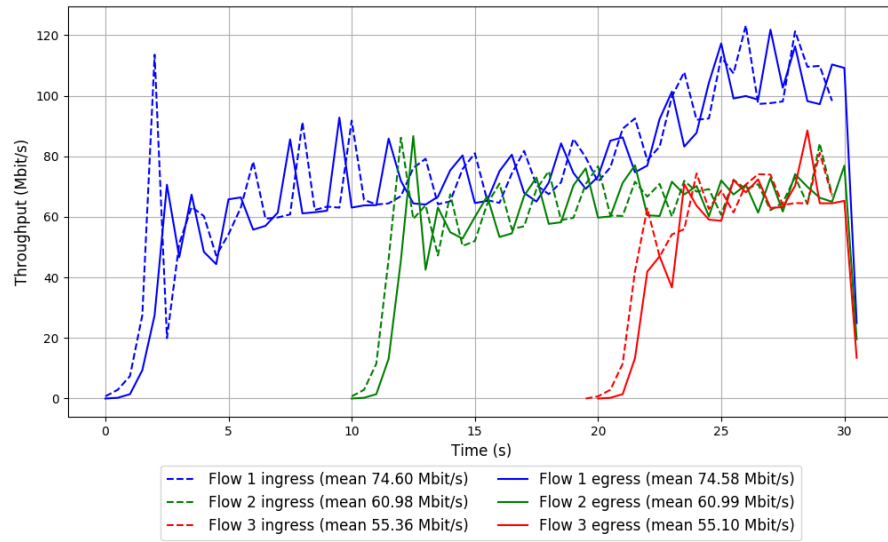
-- Flow 3:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 121.372 ms

Loss rate: 0.48%

## Run 6: Report of TCP Cubic — Data Link

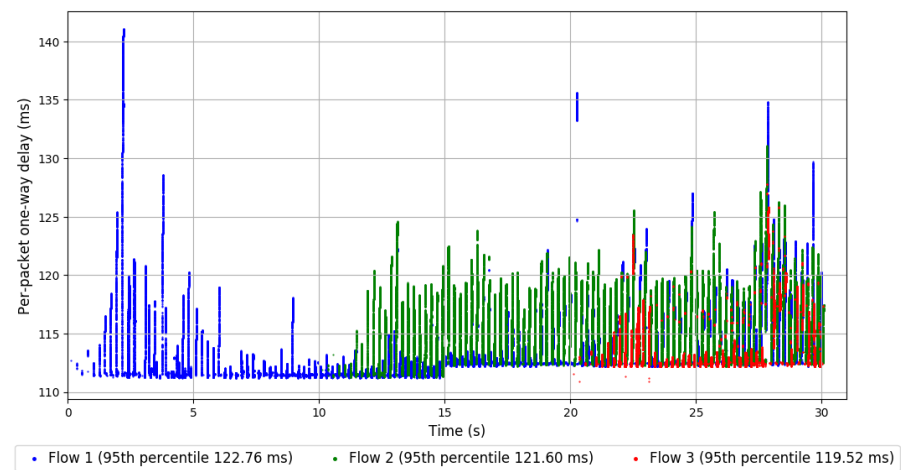
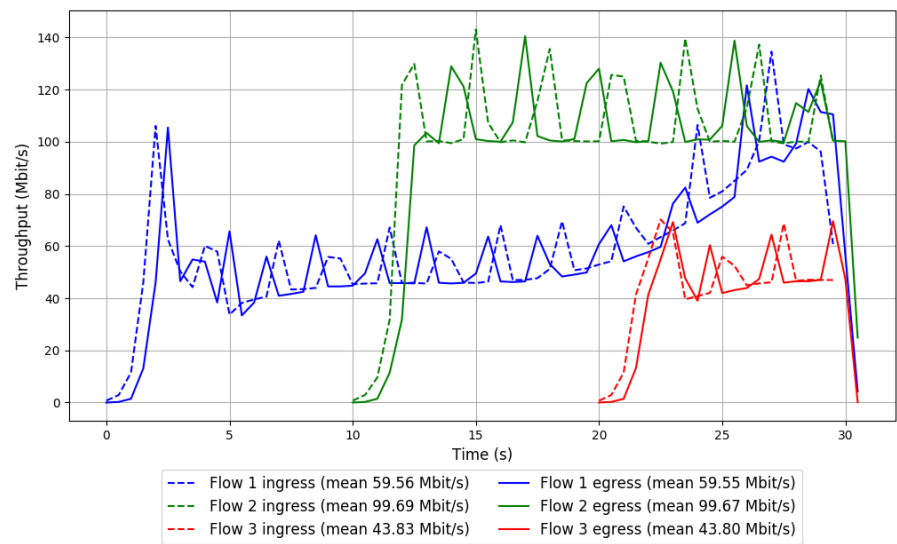


Run 7: Statistics of TCP Cubic

Start at: 2018-06-05 10:39:50  
End at: 2018-06-05 10:40:20  
Local clock offset: -0.342 ms  
Remote clock offset: -0.402 ms

# Below is generated by plot.py at 2018-06-05 12:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 140.35 Mbit/s  
95th percentile per-packet one-way delay: 121.983 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.55 Mbit/s  
95th percentile per-packet one-way delay: 122.757 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 99.67 Mbit/s  
95th percentile per-packet one-way delay: 121.600 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 43.80 Mbit/s  
95th percentile per-packet one-way delay: 119.524 ms  
Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

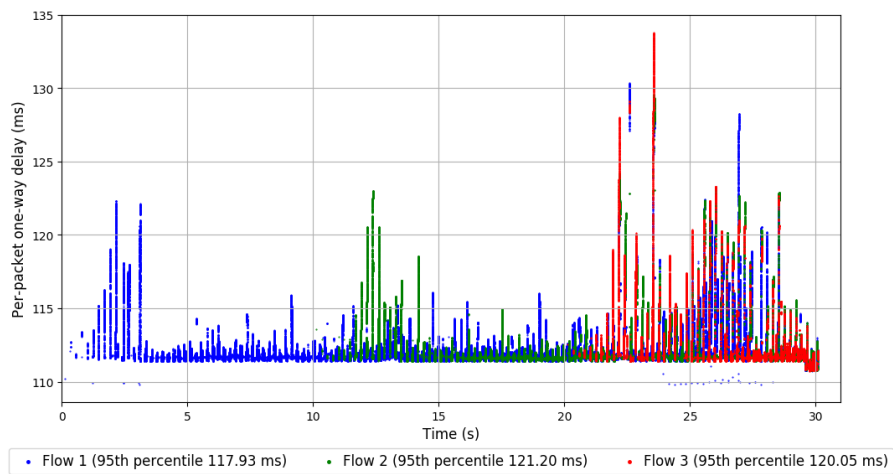
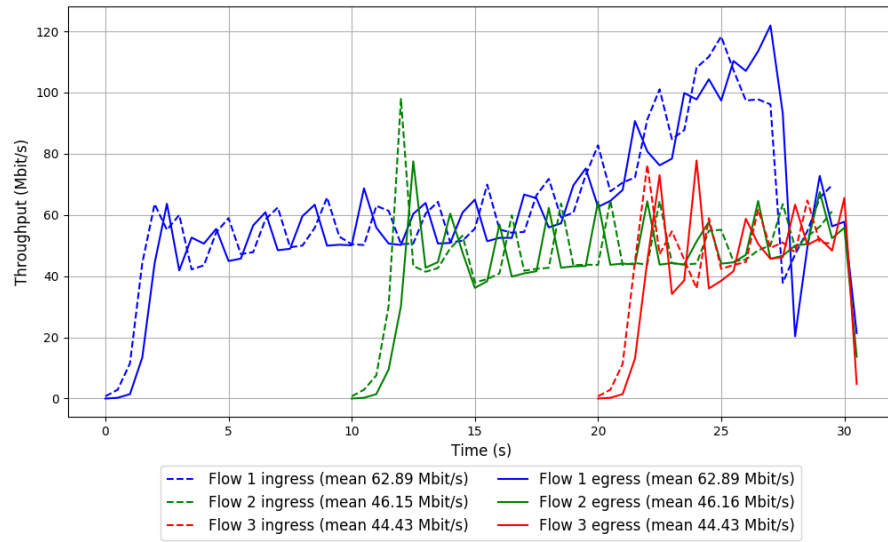


Run 8: Statistics of TCP Cubic

Start at: 2018-06-05 11:03:45  
End at: 2018-06-05 11:04:15  
Local clock offset: -0.287 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-05 12:35:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 108.39 Mbit/s  
95th percentile per-packet one-way delay: 119.731 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 62.89 Mbit/s  
95th percentile per-packet one-way delay: 117.933 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.16 Mbit/s  
95th percentile per-packet one-way delay: 121.203 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 44.43 Mbit/s  
95th percentile per-packet one-way delay: 120.053 ms  
Loss rate: 0.00%

## Run 8: Report of TCP Cubic — Data Link



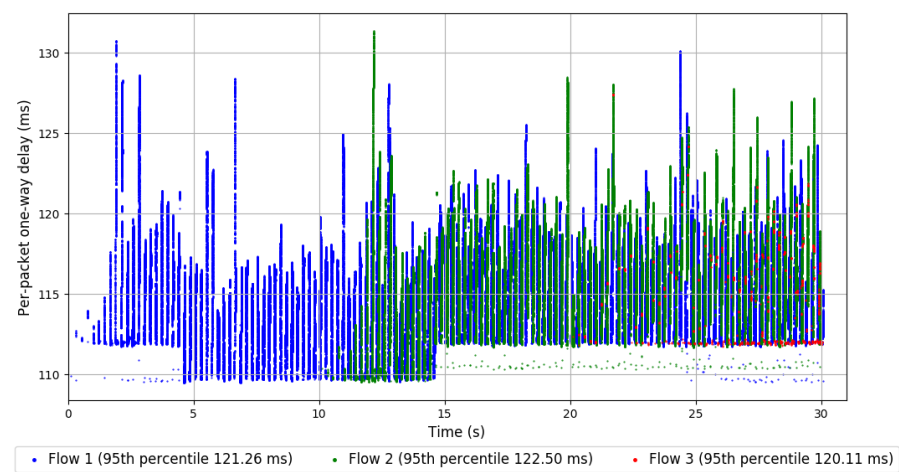
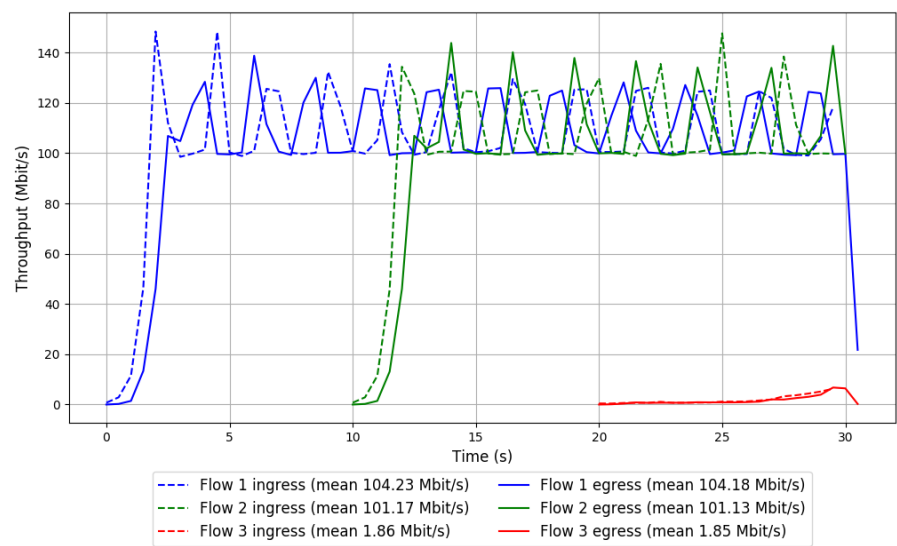
Run 9: Statistics of TCP Cubic

Start at: 2018-06-05 11:27:30  
End at: 2018-06-05 11:28:00  
Local clock offset: -0.132 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-05 12:36:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 171.72 Mbit/s  
95th percentile per-packet one-way delay: 121.895 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 104.18 Mbit/s  
95th percentile per-packet one-way delay: 121.264 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 101.13 Mbit/s  
95th percentile per-packet one-way delay: 122.505 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.85 Mbit/s  
95th percentile per-packet one-way delay: 120.114 ms  
Loss rate: 0.39%



Run 9: Report of TCP Cubic — Data Link

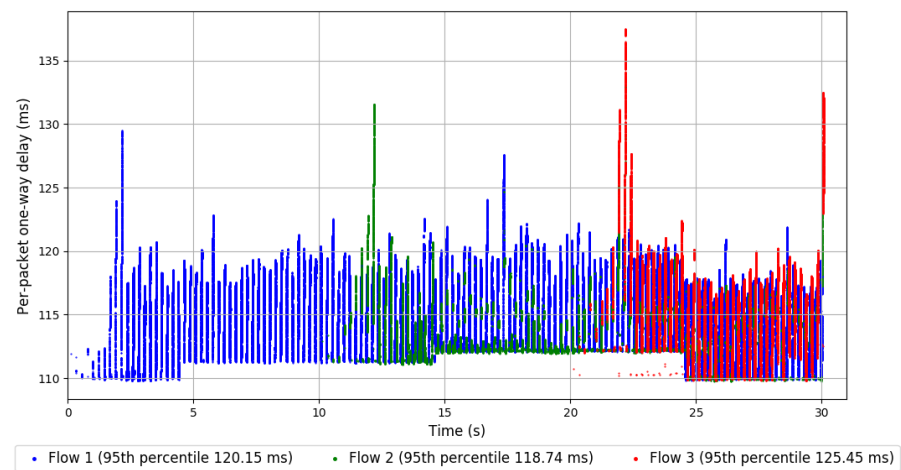
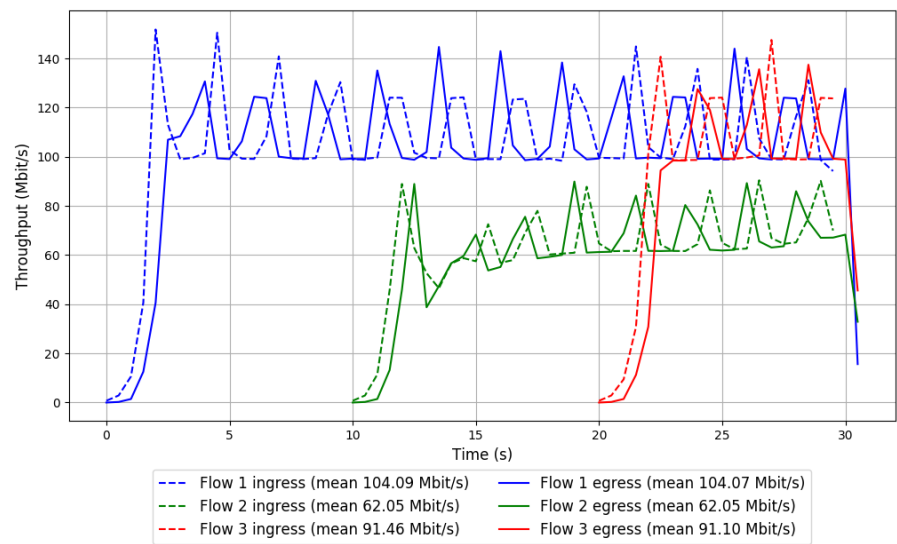


Run 10: Statistics of TCP Cubic

Start at: 2018-06-05 11:51:10  
End at: 2018-06-05 11:51:40  
Local clock offset: -0.411 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-06-05 12:36:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 175.40 Mbit/s  
95th percentile per-packet one-way delay: 120.219 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 104.07 Mbit/s  
95th percentile per-packet one-way delay: 120.154 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 62.05 Mbit/s  
95th percentile per-packet one-way delay: 118.743 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 91.10 Mbit/s  
95th percentile per-packet one-way delay: 125.450 ms  
Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link

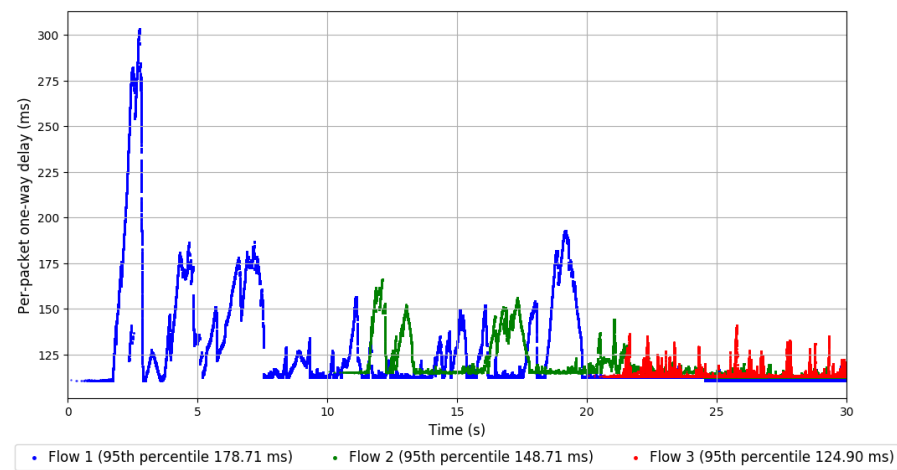
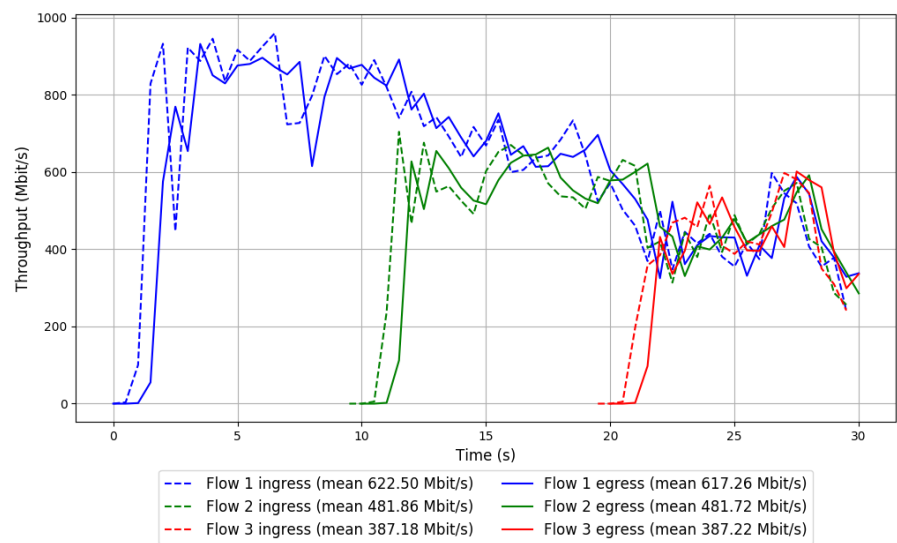


Run 1: Statistics of FillP

Start at: 2018-06-05 08:23:00  
End at: 2018-06-05 08:23:30  
Local clock offset: -0.379 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2018-06-05 12:56:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1066.85 Mbit/s  
95th percentile per-packet one-way delay: 172.891 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 617.26 Mbit/s  
95th percentile per-packet one-way delay: 178.707 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 481.72 Mbit/s  
95th percentile per-packet one-way delay: 148.712 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 387.22 Mbit/s  
95th percentile per-packet one-way delay: 124.901 ms  
Loss rate: 0.00%

Run 1: Report of FillP — Data Link

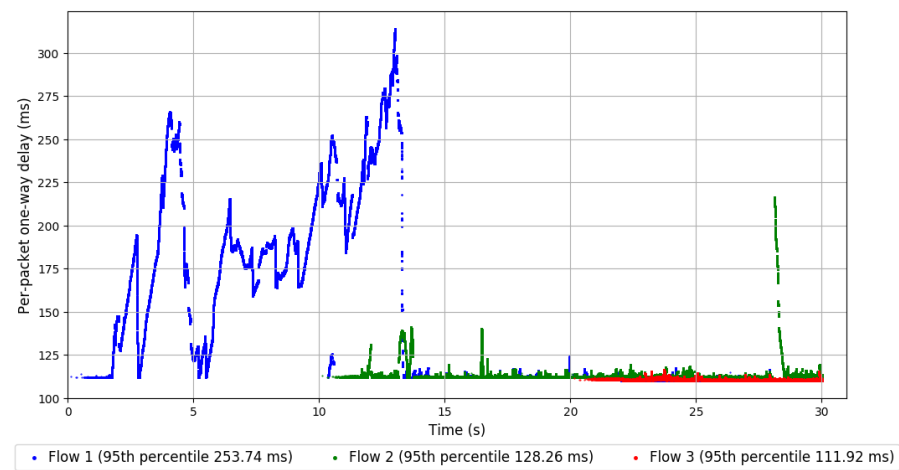
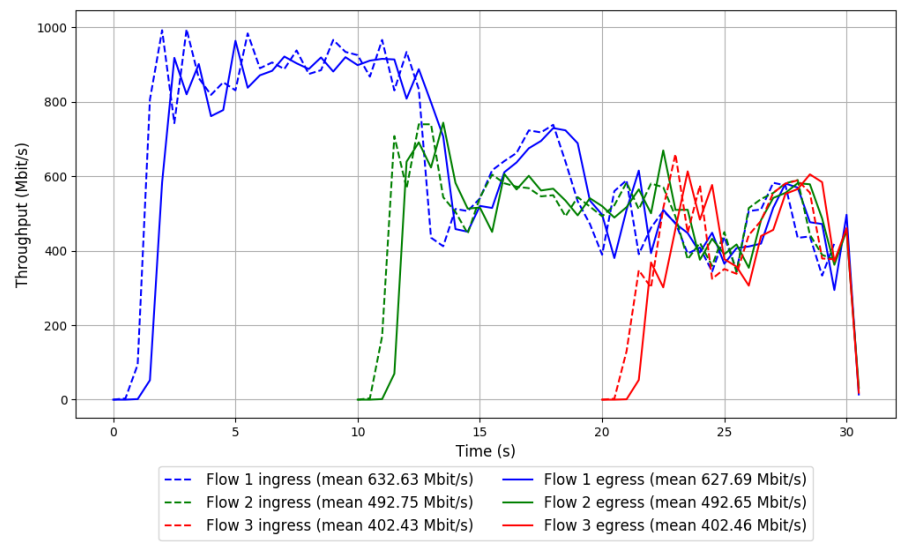


Run 2: Statistics of FillP

Start at: 2018-06-05 08:46:23  
End at: 2018-06-05 08:46:53  
Local clock offset: -0.17 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-05 12:57:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1088.31 Mbit/s  
95th percentile per-packet one-way delay: 241.279 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 627.69 Mbit/s  
95th percentile per-packet one-way delay: 253.742 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 492.65 Mbit/s  
95th percentile per-packet one-way delay: 128.257 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 402.46 Mbit/s  
95th percentile per-packet one-way delay: 111.923 ms  
Loss rate: 0.01%

Run 2: Report of FillP — Data Link



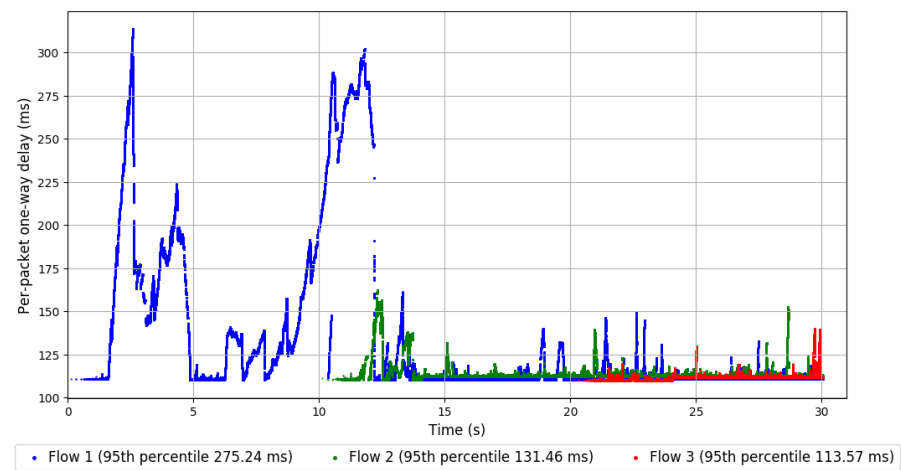
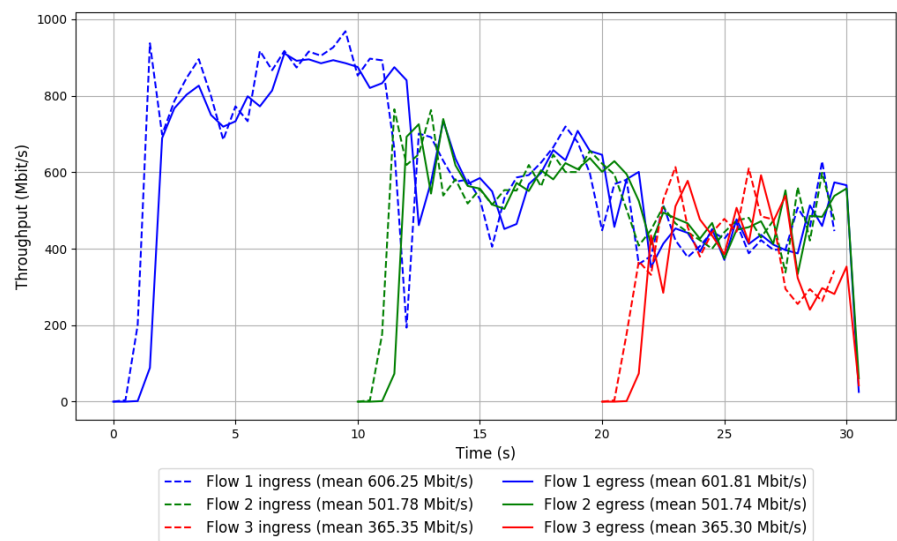
Run 3: Statistics of FillP

Start at: 2018-06-05 09:10:21  
End at: 2018-06-05 09:10:51  
Local clock offset: -0.252 ms  
Remote clock offset: -0.423 ms

# Below is generated by plot.py at 2018-06-05 12:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1056.51 Mbit/s  
95th percentile per-packet one-way delay: 250.764 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 601.81 Mbit/s  
95th percentile per-packet one-way delay: 275.240 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 501.74 Mbit/s  
95th percentile per-packet one-way delay: 131.458 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 365.30 Mbit/s  
95th percentile per-packet one-way delay: 113.572 ms  
Loss rate: 0.00%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-05 09:34:18

End at: 2018-06-05 09:34:48

Local clock offset: -0.401 ms

Remote clock offset: 0.395 ms

# Below is generated by plot.py at 2018-06-05 12:58:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1022.24 Mbit/s

95th percentile per-packet one-way delay: 188.020 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 588.25 Mbit/s

95th percentile per-packet one-way delay: 199.360 ms

Loss rate: 1.84%

-- Flow 2:

Average throughput: 460.68 Mbit/s

95th percentile per-packet one-way delay: 150.309 ms

Loss rate: 0.00%

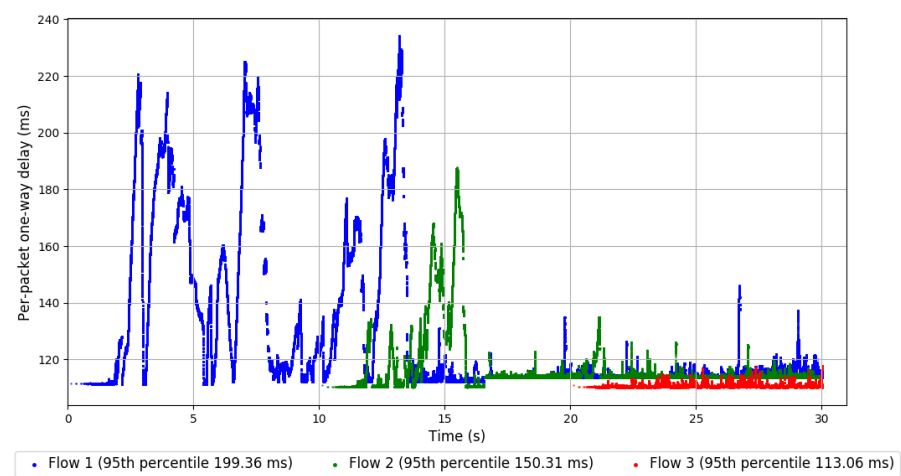
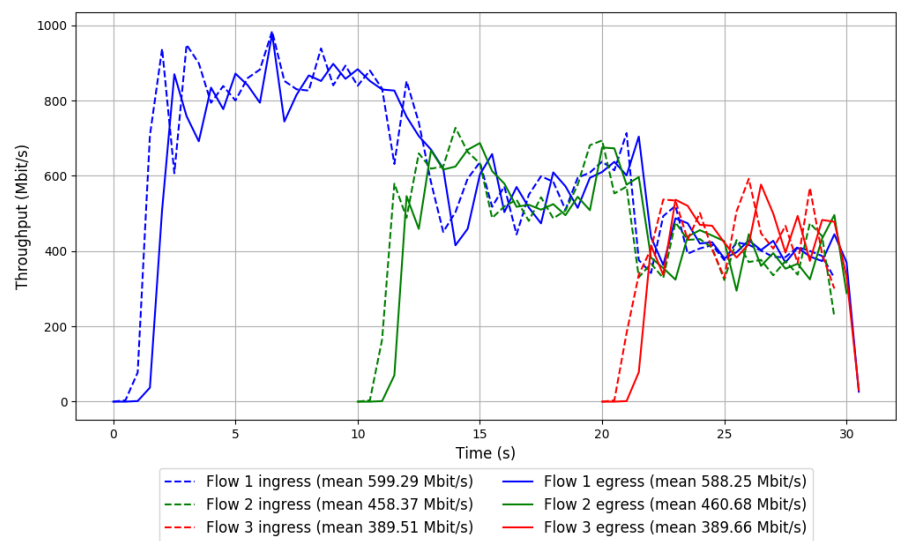
-- Flow 3:

Average throughput: 389.66 Mbit/s

95th percentile per-packet one-way delay: 113.064 ms

Loss rate: 0.00%

Run 4: Report of FillP — Data Link

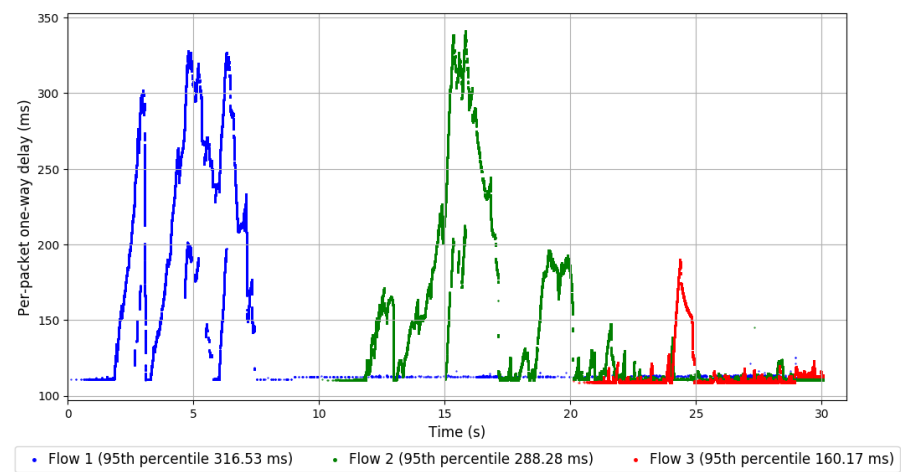
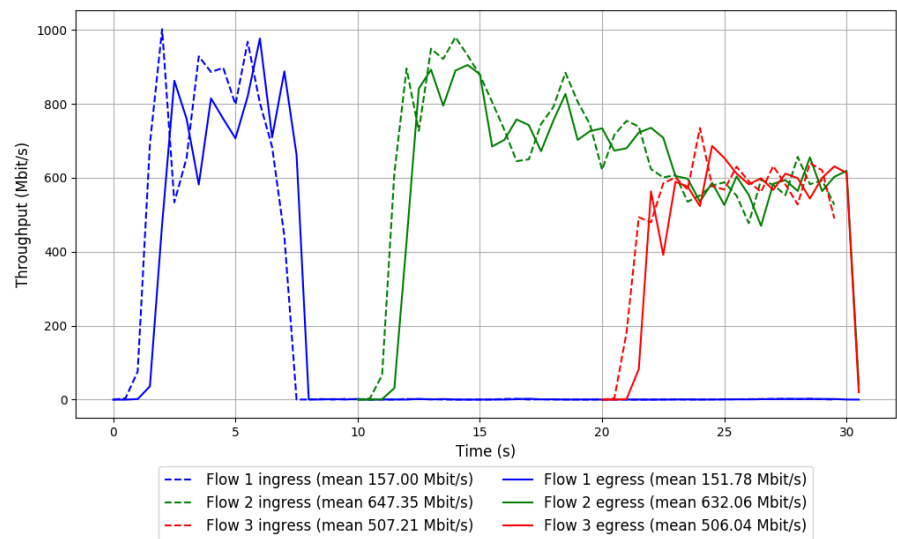


Run 5: Statistics of FillP

Start at: 2018-06-05 09:58:06  
End at: 2018-06-05 09:58:36  
Local clock offset: -0.168 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-05 12:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 740.10 Mbit/s  
95th percentile per-packet one-way delay: 298.148 ms  
Loss rate: 2.09%  
-- Flow 1:  
Average throughput: 151.78 Mbit/s  
95th percentile per-packet one-way delay: 316.534 ms  
Loss rate: 3.33%  
-- Flow 2:  
Average throughput: 632.06 Mbit/s  
95th percentile per-packet one-way delay: 288.277 ms  
Loss rate: 2.36%  
-- Flow 3:  
Average throughput: 506.04 Mbit/s  
95th percentile per-packet one-way delay: 160.168 ms  
Loss rate: 0.21%

Run 5: Report of FillP — Data Link

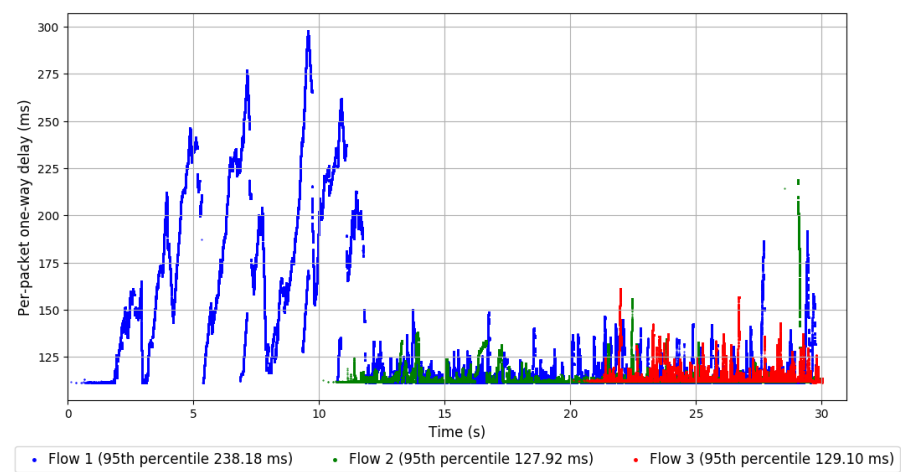
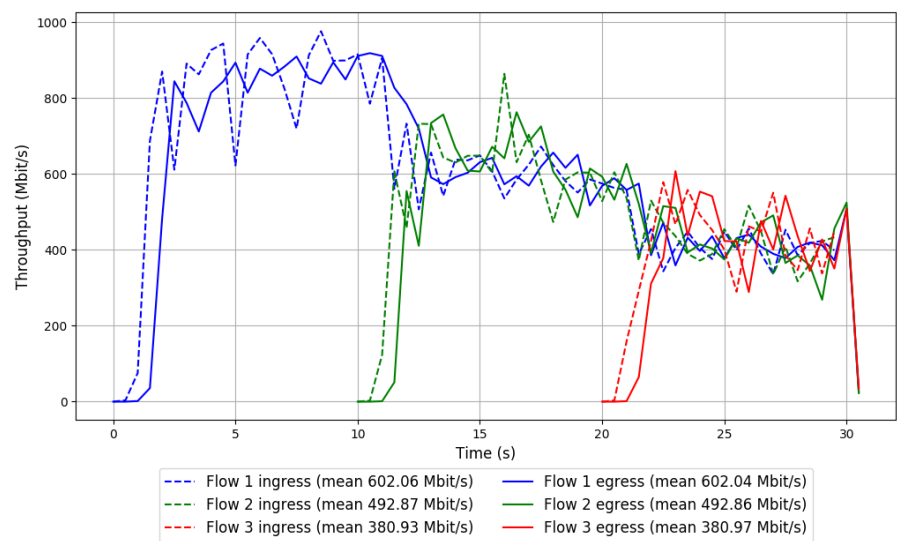


Run 6: Statistics of FillP

Start at: 2018-06-05 10:21:35  
End at: 2018-06-05 10:22:05  
Local clock offset: -0.066 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-06-05 12:58:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1055.73 Mbit/s  
95th percentile per-packet one-way delay: 228.573 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 602.04 Mbit/s  
95th percentile per-packet one-way delay: 238.178 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 492.86 Mbit/s  
95th percentile per-packet one-way delay: 127.923 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 380.97 Mbit/s  
95th percentile per-packet one-way delay: 129.105 ms  
Loss rate: 0.00%

Run 6: Report of FillP — Data Link



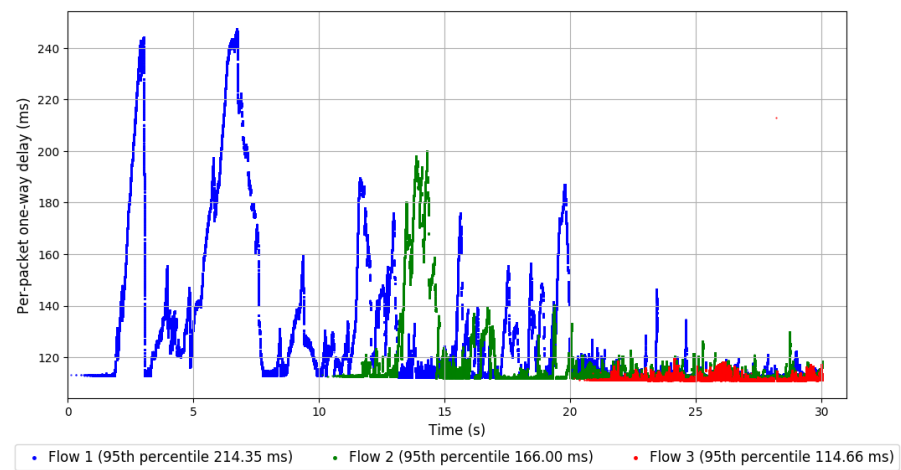
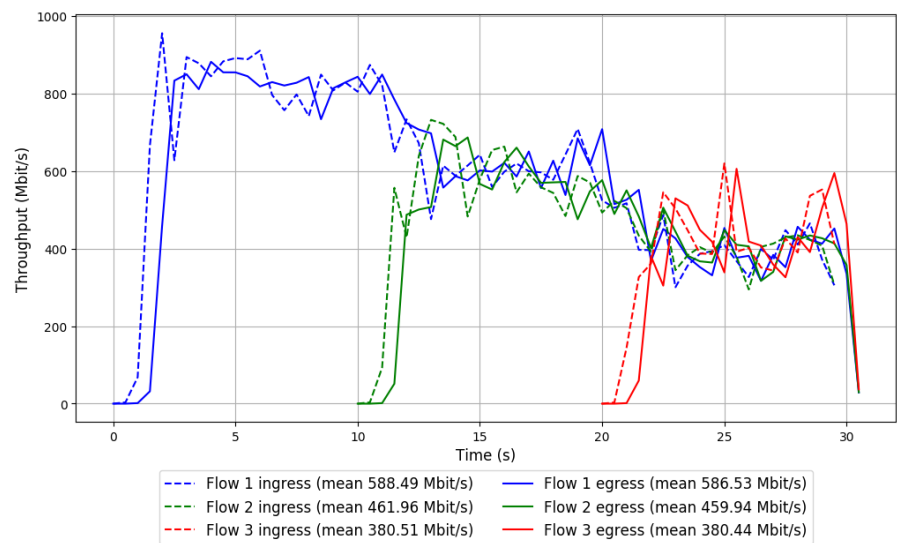
Run 7: Statistics of FillP

Start at: 2018-06-05 10:45:22  
End at: 2018-06-05 10:45:52  
Local clock offset: -0.59 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-05 12:58:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1018.37 Mbit/s  
95th percentile per-packet one-way delay: 191.239 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 586.53 Mbit/s  
95th percentile per-packet one-way delay: 214.354 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 459.94 Mbit/s  
95th percentile per-packet one-way delay: 165.999 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 380.44 Mbit/s  
95th percentile per-packet one-way delay: 114.657 ms  
Loss rate: 0.01%



Run 7: Report of FillP — Data Link

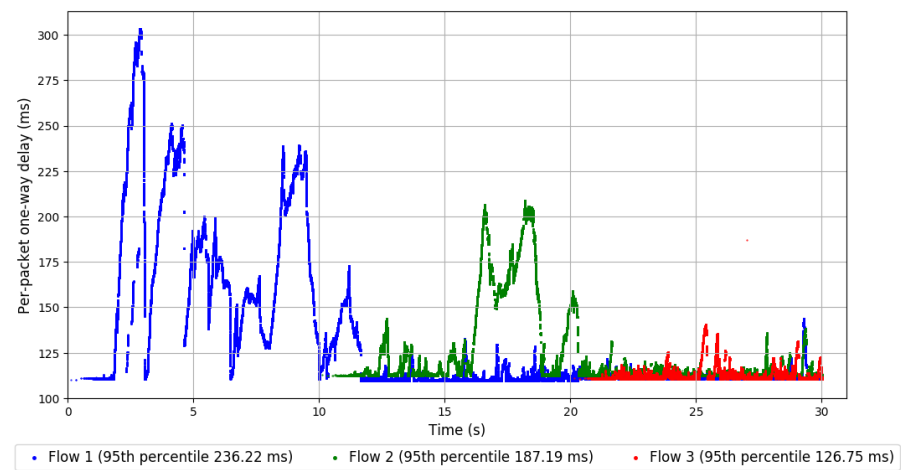
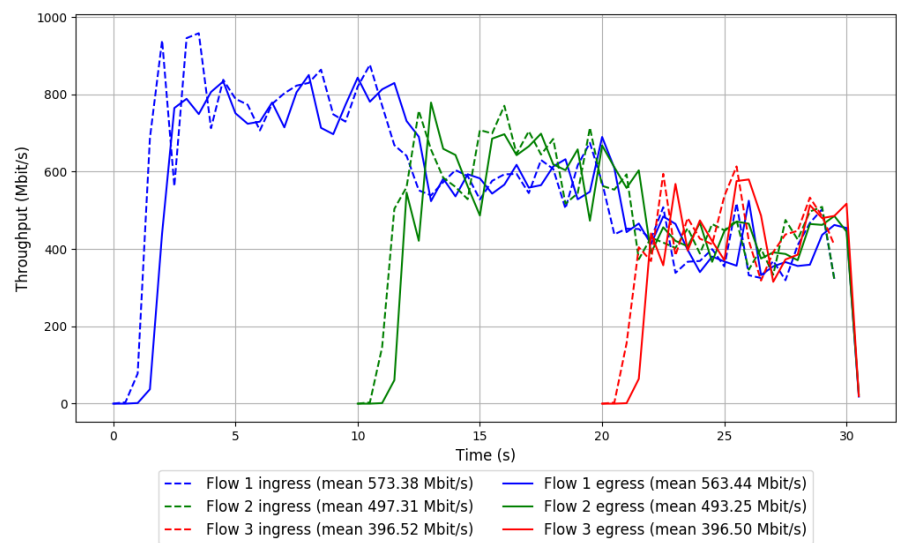


Run 8: Statistics of FillP

Start at: 2018-06-05 11:09:15  
End at: 2018-06-05 11:09:45  
Local clock offset: -0.45 ms  
Remote clock offset: -0.452 ms

# Below is generated by plot.py at 2018-06-05 12:58:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1022.34 Mbit/s  
95th percentile per-packet one-way delay: 223.075 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 563.44 Mbit/s  
95th percentile per-packet one-way delay: 236.216 ms  
Loss rate: 1.73%  
-- Flow 2:  
Average throughput: 493.25 Mbit/s  
95th percentile per-packet one-way delay: 187.185 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 396.50 Mbit/s  
95th percentile per-packet one-way delay: 126.748 ms  
Loss rate: 0.00%

Run 8: Report of FillP — Data Link

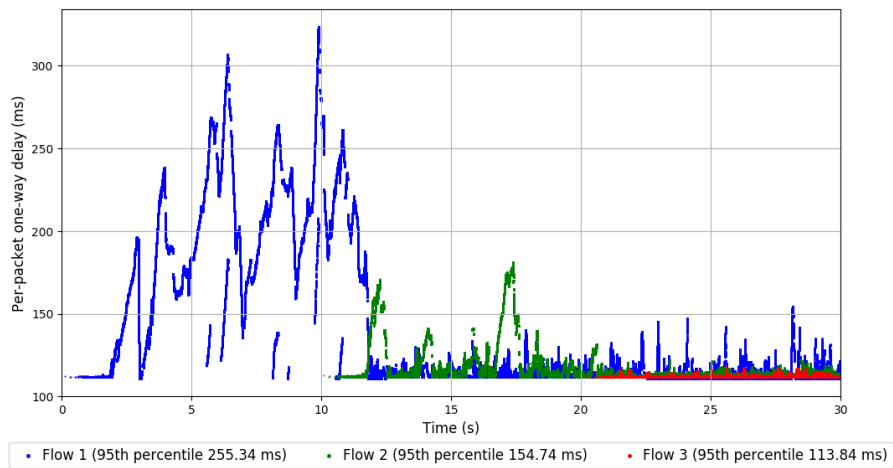
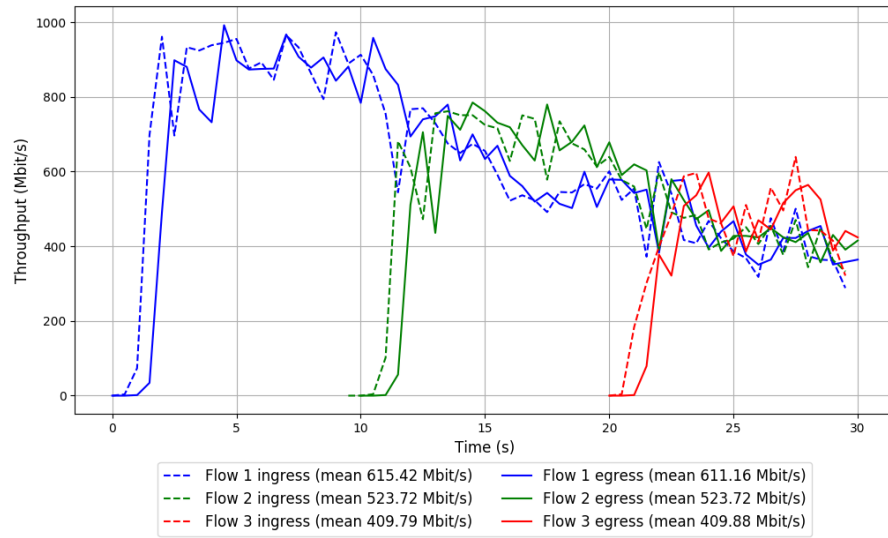


Run 9: Statistics of FillP

Start at: 2018-06-05 11:33:02  
End at: 2018-06-05 11:33:32  
Local clock offset: -0.548 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-05 13:17:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1095.66 Mbit/s  
95th percentile per-packet one-way delay: 234.768 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 611.16 Mbit/s  
95th percentile per-packet one-way delay: 255.335 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 523.72 Mbit/s  
95th percentile per-packet one-way delay: 154.740 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 409.88 Mbit/s  
95th percentile per-packet one-way delay: 113.837 ms  
Loss rate: 0.01%

## Run 9: Report of FillP — Data Link

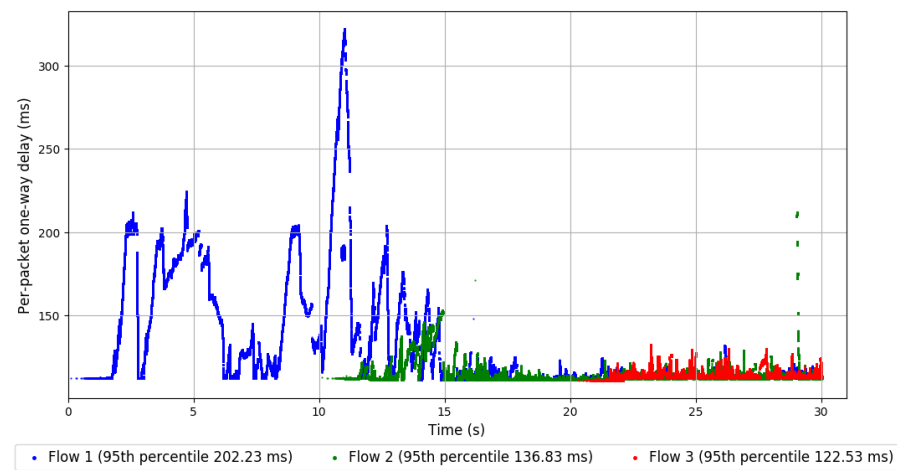
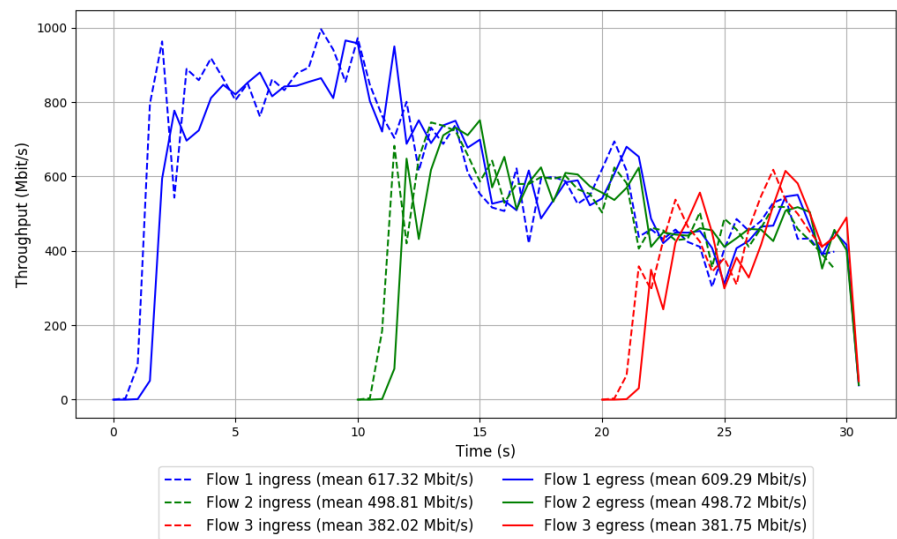


Run 10: Statistics of FillP

Start at: 2018-06-05 11:56:33  
End at: 2018-06-05 11:57:03  
Local clock offset: -0.493 ms  
Remote clock offset: -0.398 ms

# Below is generated by plot.py at 2018-06-05 13:20:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1067.59 Mbit/s  
95th percentile per-packet one-way delay: 196.537 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 609.29 Mbit/s  
95th percentile per-packet one-way delay: 202.234 ms  
Loss rate: 1.31%  
-- Flow 2:  
Average throughput: 498.72 Mbit/s  
95th percentile per-packet one-way delay: 136.833 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 381.75 Mbit/s  
95th percentile per-packet one-way delay: 122.534 ms  
Loss rate: 0.06%

Run 10: Report of FillP — Data Link



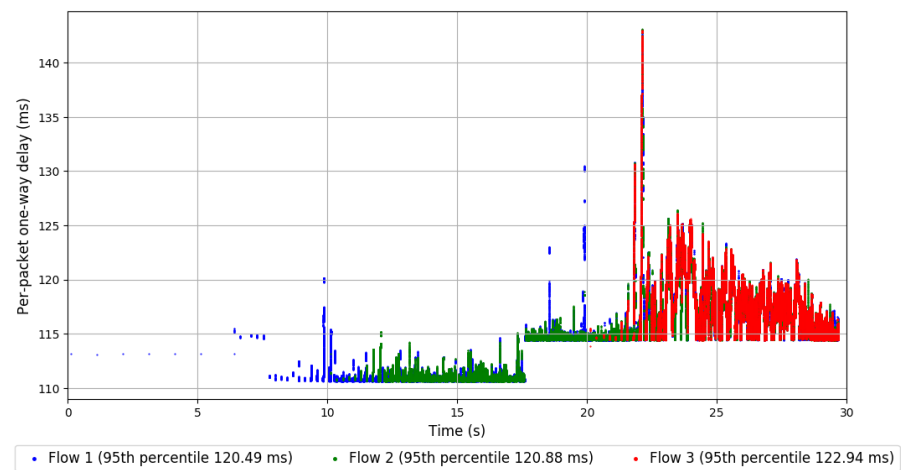
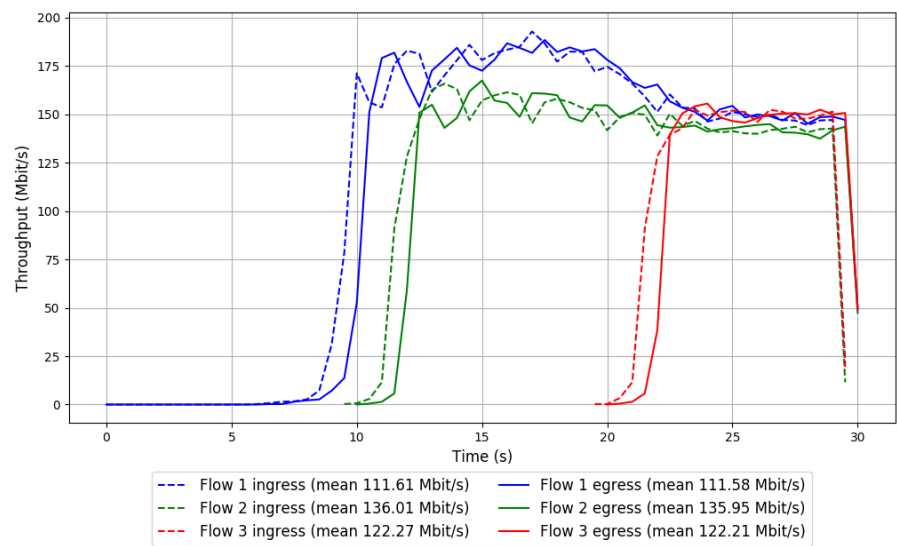
```
Run 1: Statistics of Indigo

Start at: 2018-06-05 08:29:17
End at: 2018-06-05 08:29:47
Local clock offset: -0.155 ms
Remote clock offset: 0.346 ms

# Below is generated by plot.py at 2018-06-05 13:20:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 241.11 Mbit/s
95th percentile per-packet one-way delay: 121.232 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 111.58 Mbit/s
95th percentile per-packet one-way delay: 120.493 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 135.95 Mbit/s
95th percentile per-packet one-way delay: 120.884 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 122.21 Mbit/s
95th percentile per-packet one-way delay: 122.938 ms
Loss rate: 0.05%
```



Run 1: Report of Indigo — Data Link

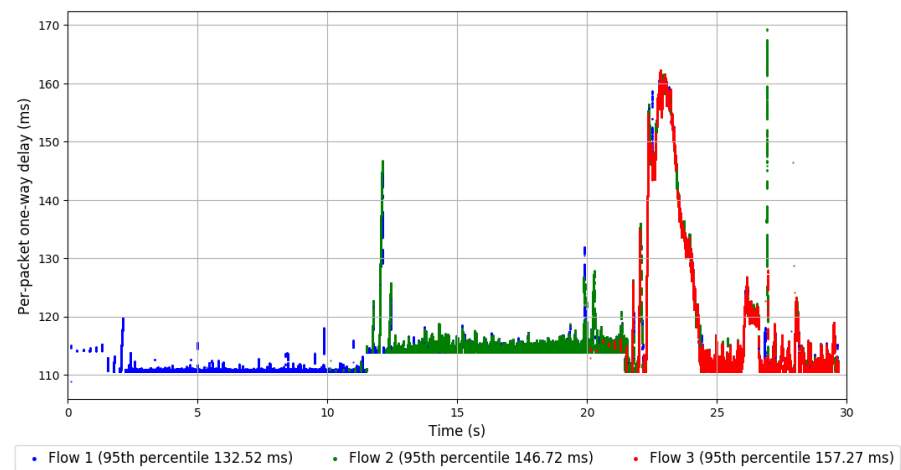
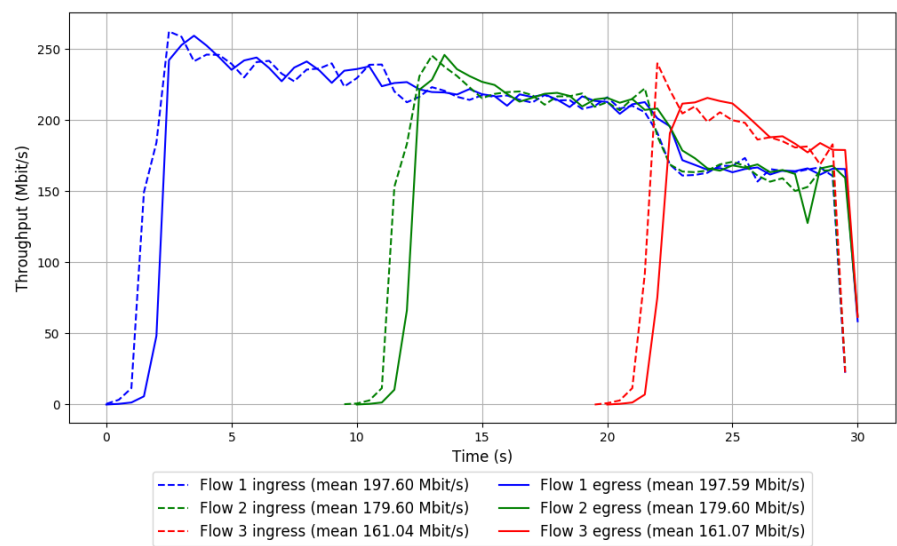


Run 2: Statistics of Indigo

Start at: 2018-06-05 08:52:43  
End at: 2018-06-05 08:53:13  
Local clock offset: -0.036 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2018-06-05 13:20:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 368.58 Mbit/s  
95th percentile per-packet one-way delay: 146.740 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 197.59 Mbit/s  
95th percentile per-packet one-way delay: 132.521 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 179.60 Mbit/s  
95th percentile per-packet one-way delay: 146.718 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 161.07 Mbit/s  
95th percentile per-packet one-way delay: 157.273 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

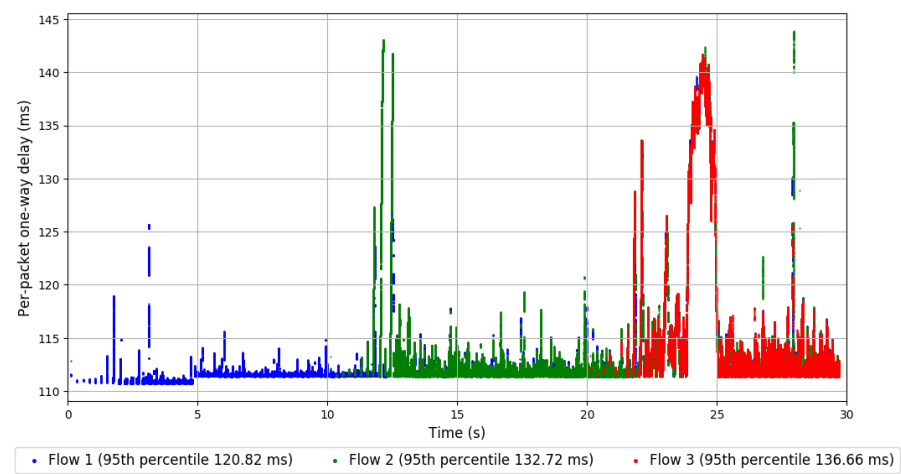
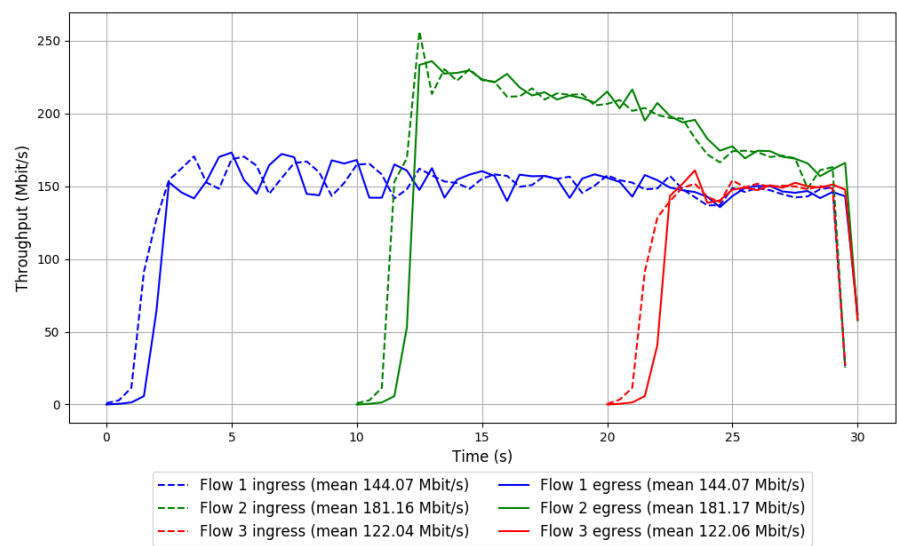


Run 3: Statistics of Indigo

Start at: 2018-06-05 09:16:40  
End at: 2018-06-05 09:17:10  
Local clock offset: -0.201 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2018-06-05 13:20:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 303.44 Mbit/s  
95th percentile per-packet one-way delay: 131.278 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 144.07 Mbit/s  
95th percentile per-packet one-way delay: 120.817 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 181.17 Mbit/s  
95th percentile per-packet one-way delay: 132.718 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 122.06 Mbit/s  
95th percentile per-packet one-way delay: 136.657 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-05 09:40:34

End at: 2018-06-05 09:41:04

Local clock offset: -0.337 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-06-05 13:20:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 281.61 Mbit/s

95th percentile per-packet one-way delay: 116.703 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 146.75 Mbit/s

95th percentile per-packet one-way delay: 116.013 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 142.82 Mbit/s

95th percentile per-packet one-way delay: 116.895 ms

Loss rate: 0.00%

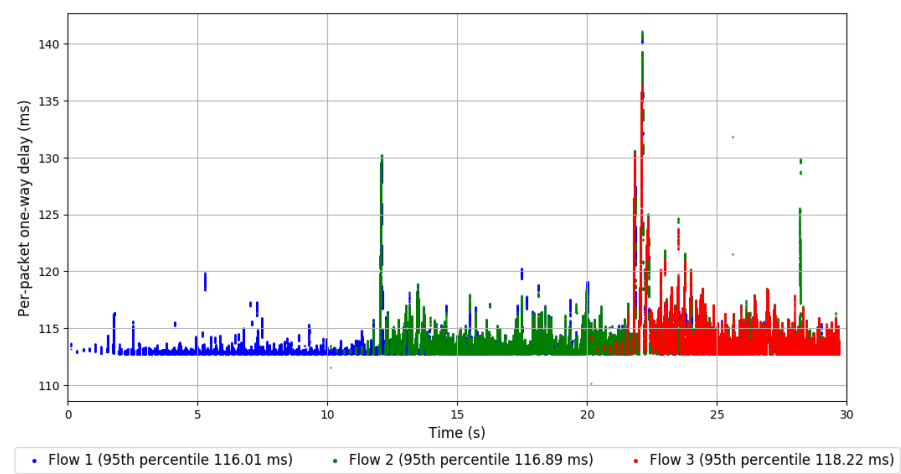
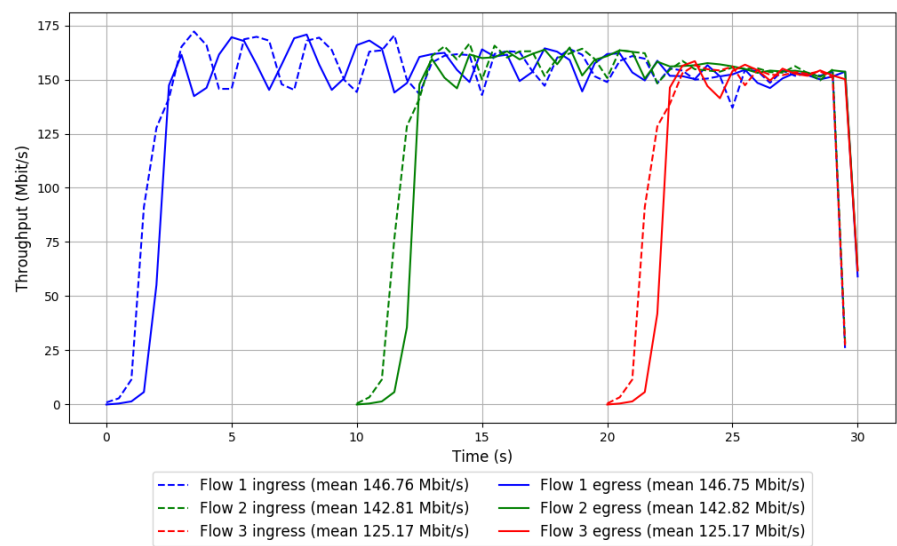
-- Flow 3:

Average throughput: 125.17 Mbit/s

95th percentile per-packet one-way delay: 118.222 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-05 10:04:06

End at: 2018-06-05 10:04:36

Local clock offset: -0.539 ms

Remote clock offset: 0.356 ms

# Below is generated by plot.py at 2018-06-05 13:20:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 281.23 Mbit/s

95th percentile per-packet one-way delay: 119.269 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 146.65 Mbit/s

95th percentile per-packet one-way delay: 115.122 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 137.16 Mbit/s

95th percentile per-packet one-way delay: 118.437 ms

Loss rate: 0.00%

-- Flow 3:

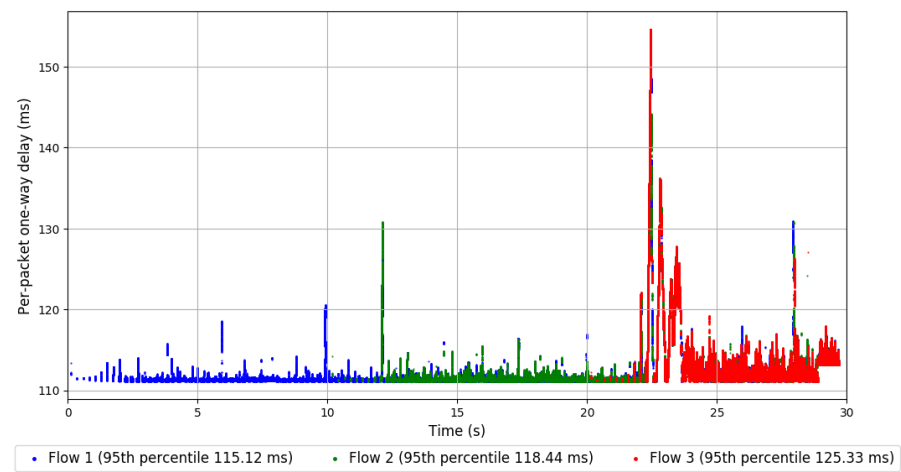
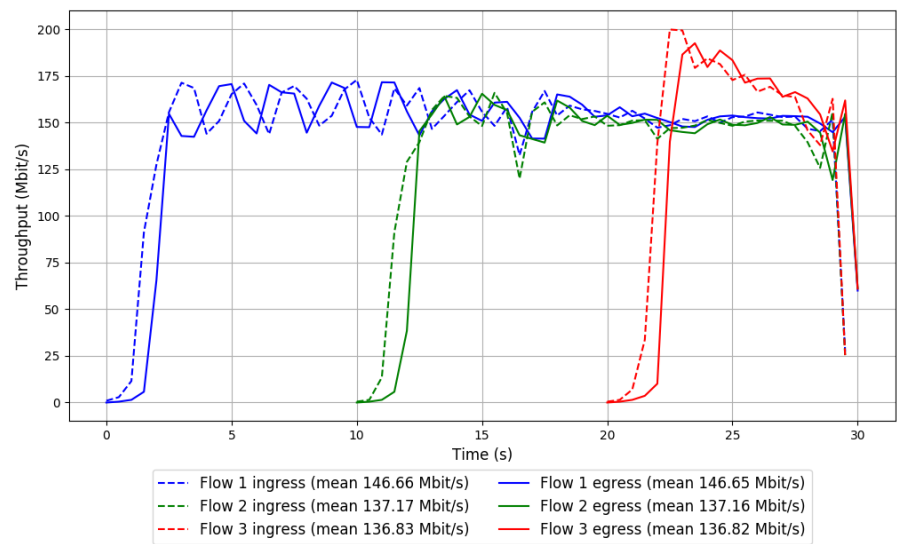
Average throughput: 136.82 Mbit/s

95th percentile per-packet one-way delay: 125.334 ms

Loss rate: 0.00%



Run 5: Report of Indigo — Data Link

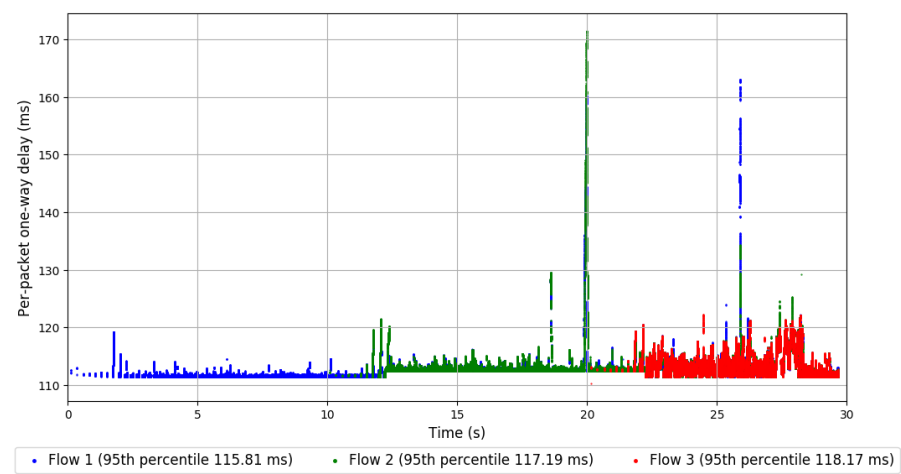
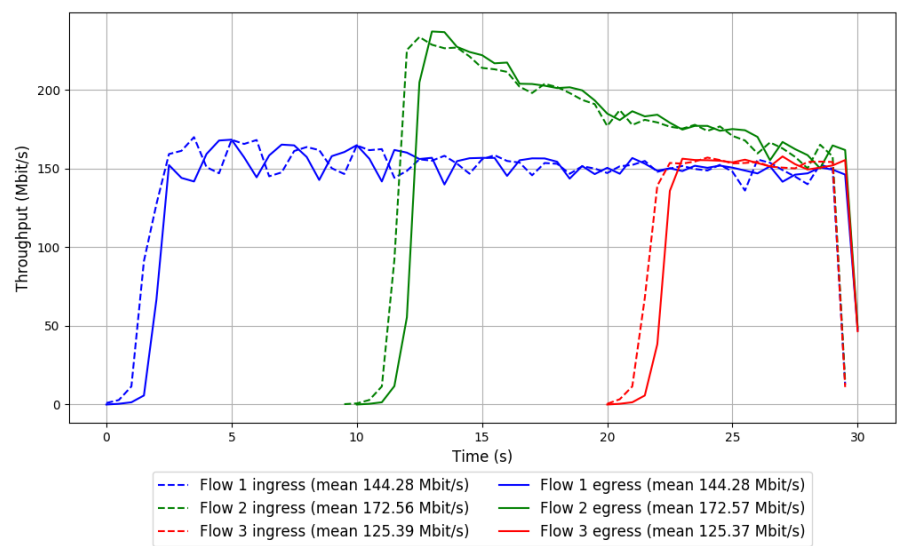


Run 6: Statistics of Indigo

Start at: 2018-06-05 10:27:52  
End at: 2018-06-05 10:28:22  
Local clock offset: -0.111 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2018-06-05 13:20:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 298.89 Mbit/s  
95th percentile per-packet one-way delay: 116.941 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 144.28 Mbit/s  
95th percentile per-packet one-way delay: 115.809 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 172.57 Mbit/s  
95th percentile per-packet one-way delay: 117.185 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 125.37 Mbit/s  
95th percentile per-packet one-way delay: 118.172 ms  
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

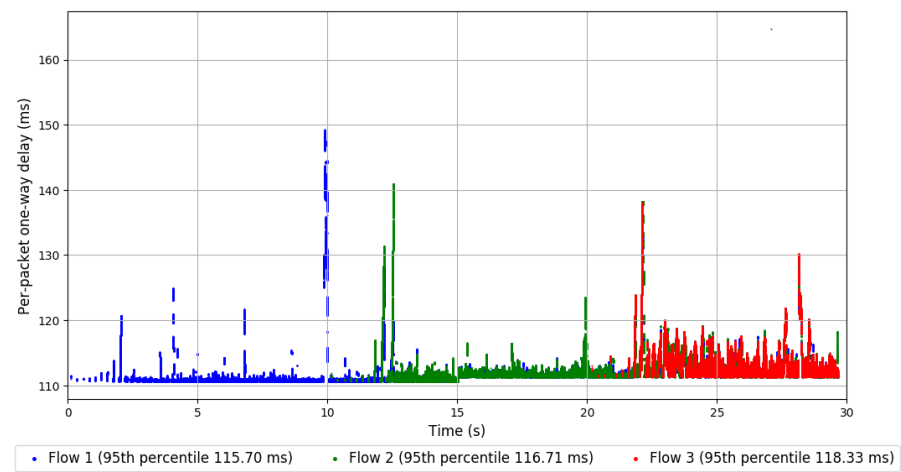
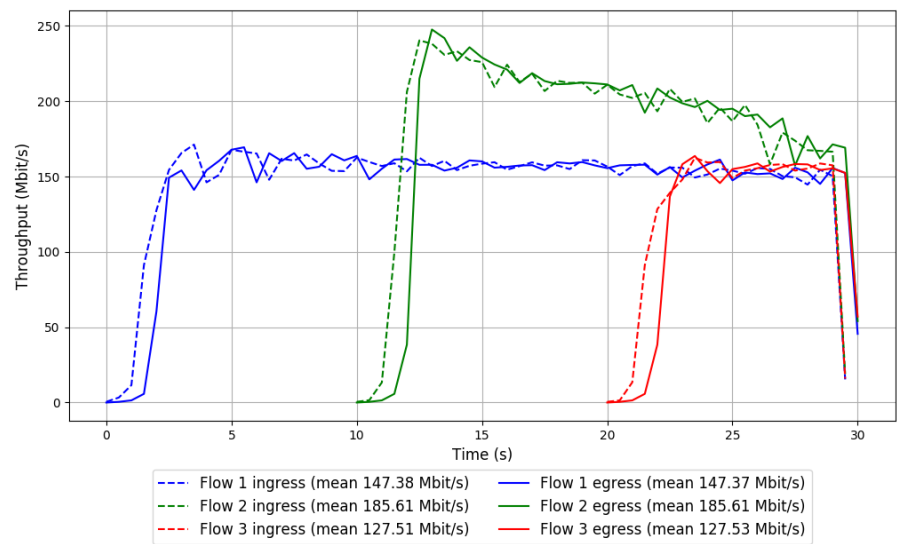


Run 7: Statistics of Indigo

Start at: 2018-06-05 10:51:40  
End at: 2018-06-05 10:52:10  
Local clock offset: -0.186 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-06-05 13:20:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 310.77 Mbit/s  
95th percentile per-packet one-way delay: 116.605 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 147.37 Mbit/s  
95th percentile per-packet one-way delay: 115.701 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 185.61 Mbit/s  
95th percentile per-packet one-way delay: 116.707 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 127.53 Mbit/s  
95th percentile per-packet one-way delay: 118.325 ms  
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

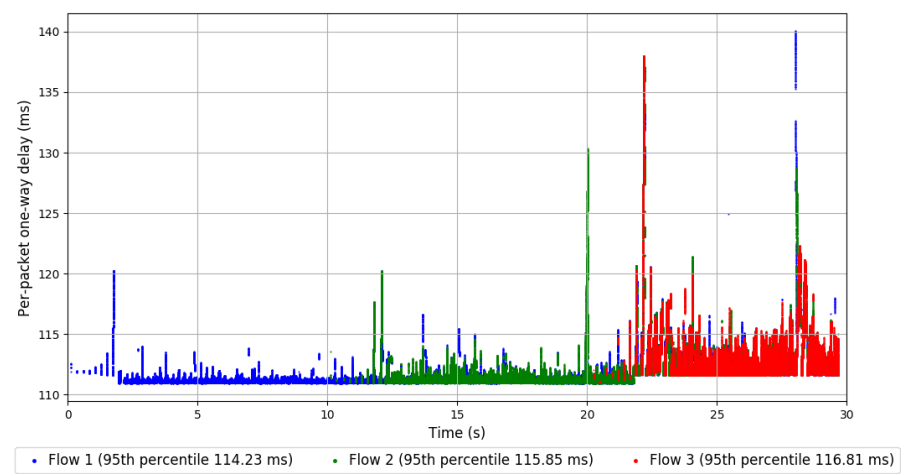
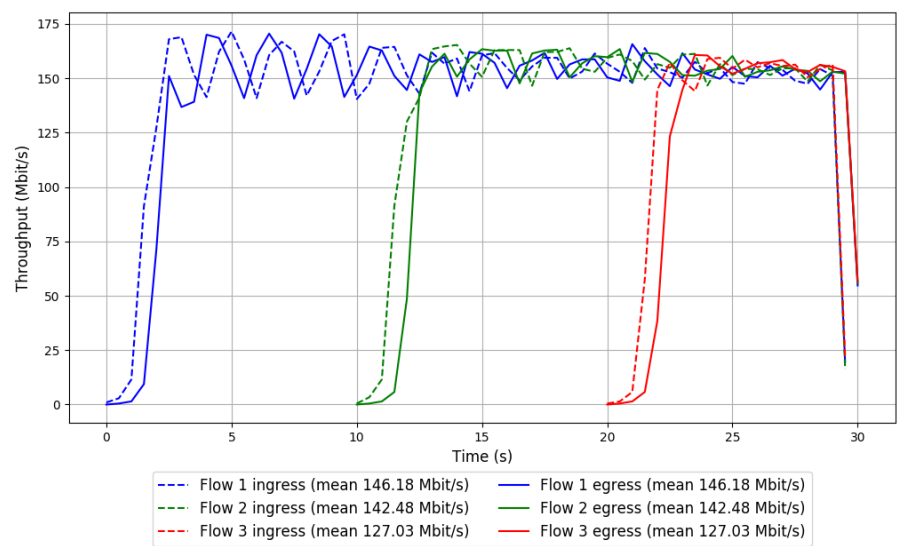


Run 8: Statistics of Indigo

Start at: 2018-06-05 11:15:33  
End at: 2018-06-05 11:16:03  
Local clock offset: -0.366 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-05 13:20:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 280.94 Mbit/s  
95th percentile per-packet one-way delay: 115.422 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 146.18 Mbit/s  
95th percentile per-packet one-way delay: 114.229 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 142.48 Mbit/s  
95th percentile per-packet one-way delay: 115.848 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 127.03 Mbit/s  
95th percentile per-packet one-way delay: 116.814 ms  
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-05 11:39:21

End at: 2018-06-05 11:39:51

Local clock offset: -0.358 ms

Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2018-06-05 13:20:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 279.26 Mbit/s

95th percentile per-packet one-way delay: 146.930 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 140.87 Mbit/s

95th percentile per-packet one-way delay: 138.849 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 136.73 Mbit/s

95th percentile per-packet one-way delay: 146.000 ms

Loss rate: 0.00%

-- Flow 3:

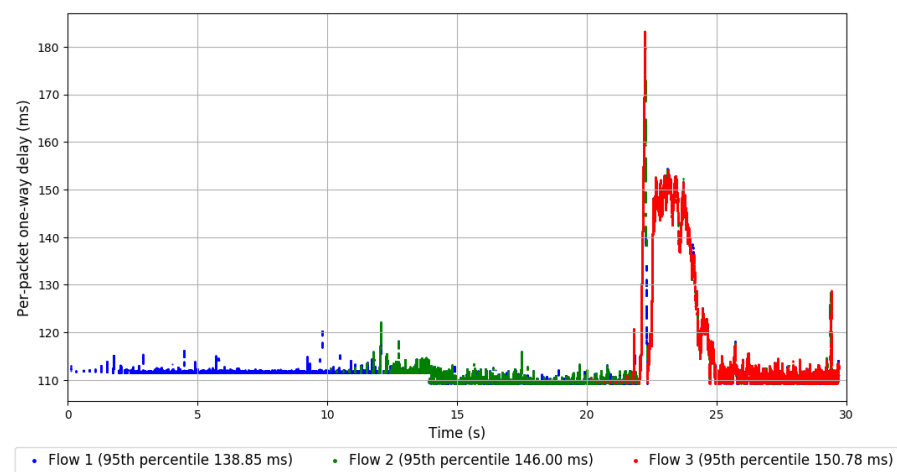
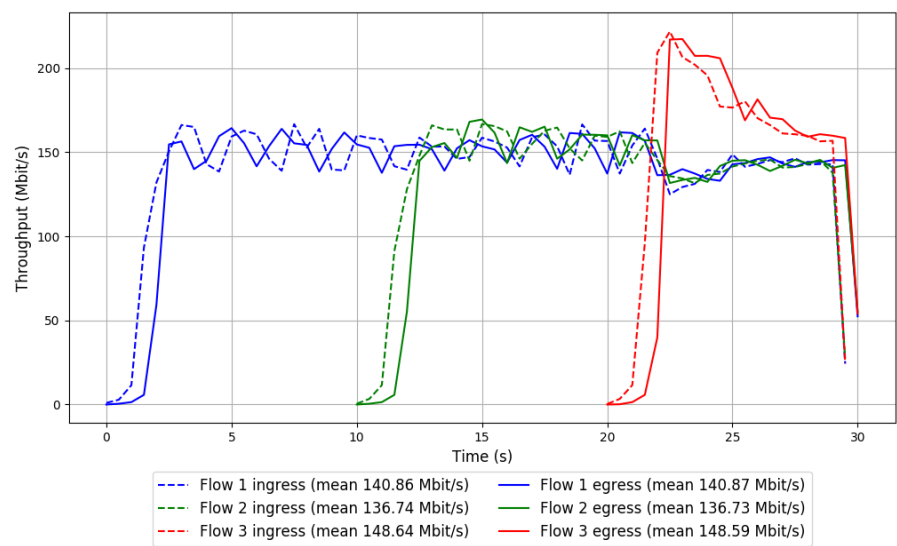
Average throughput: 148.59 Mbit/s

95th percentile per-packet one-way delay: 150.776 ms

Loss rate: 0.01%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-05 12:02:58

End at: 2018-06-05 12:03:28

Local clock offset: -0.336 ms

Remote clock offset: -0.36 ms

# Below is generated by plot.py at 2018-06-05 13:20:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 295.42 Mbit/s

95th percentile per-packet one-way delay: 122.407 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 145.46 Mbit/s

95th percentile per-packet one-way delay: 121.543 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 169.37 Mbit/s

95th percentile per-packet one-way delay: 122.390 ms

Loss rate: 0.00%

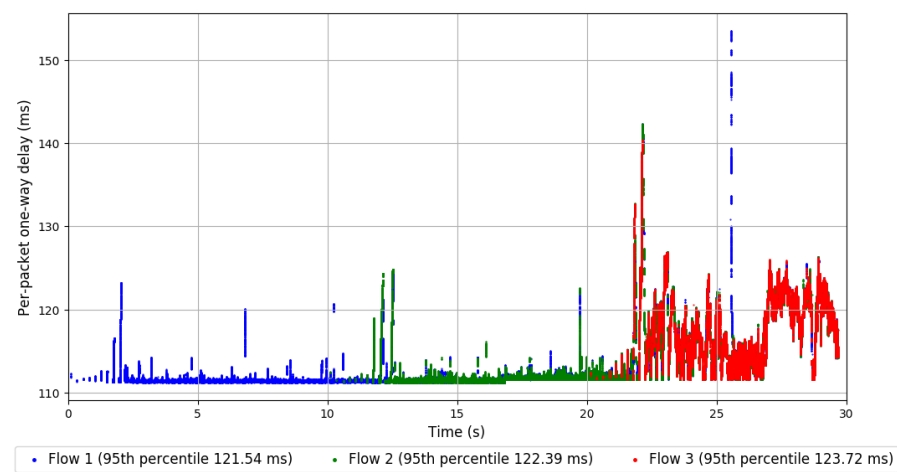
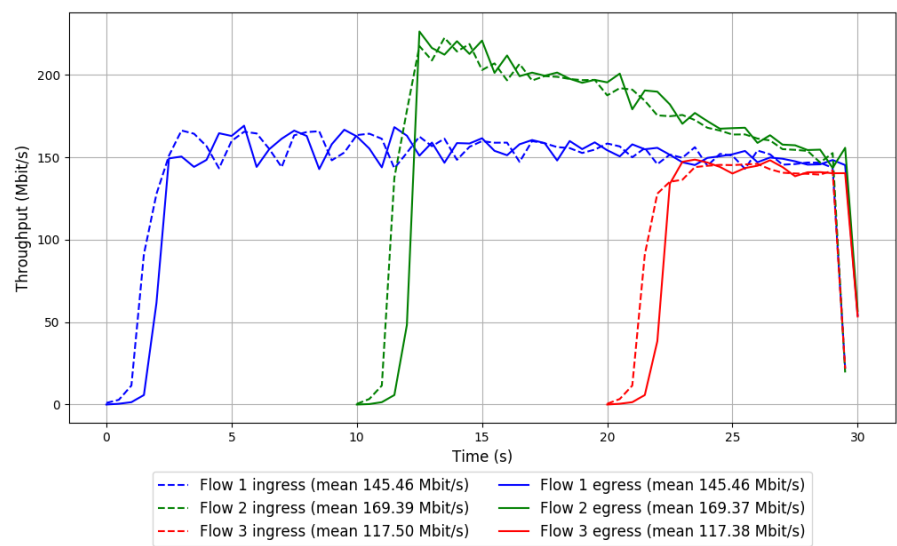
-- Flow 3:

Average throughput: 117.38 Mbit/s

95th percentile per-packet one-way delay: 123.722 ms

Loss rate: 0.07%

Run 10: Report of Indigo — Data Link

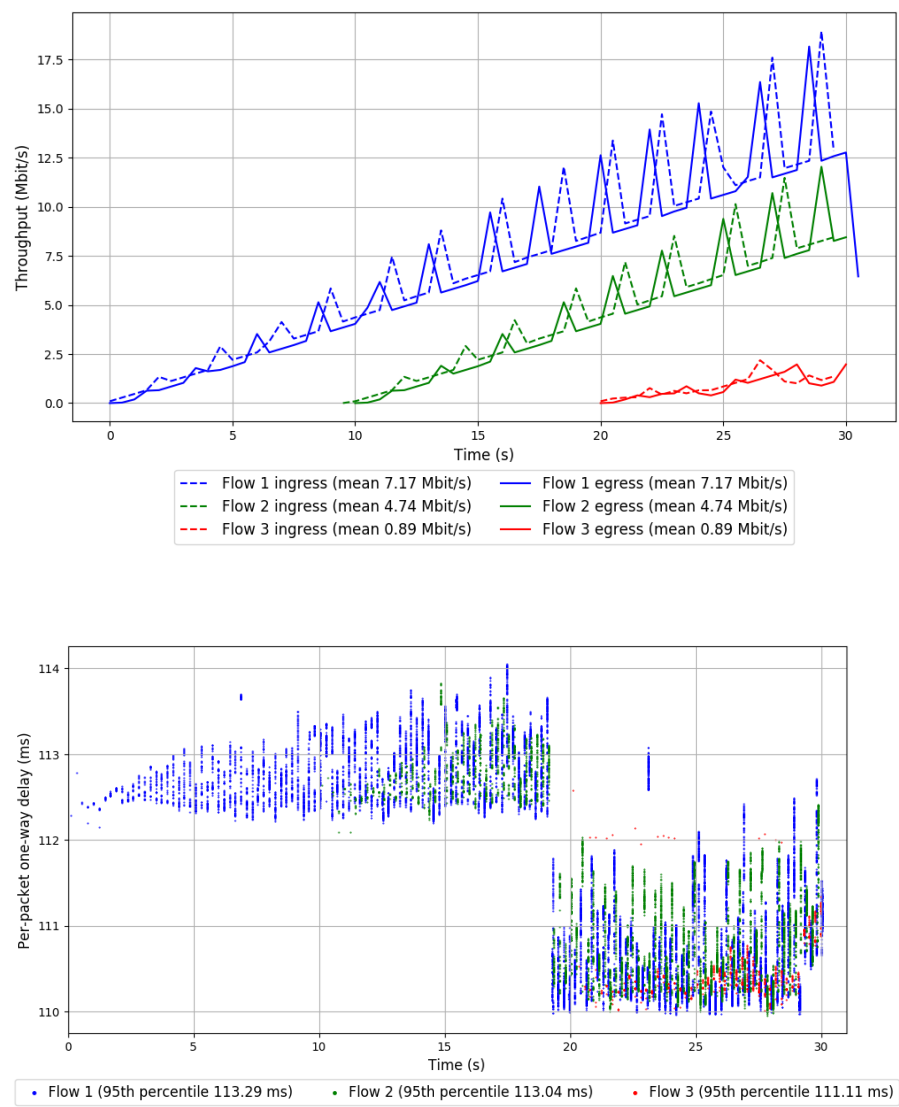


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-05 08:21:46
End at: 2018-06-05 08:22:16
Local clock offset: 0.105 ms
Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-06-05 13:20:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 113.243 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.17 Mbit/s
95th percentile per-packet one-way delay: 113.294 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 113.043 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 111.113 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

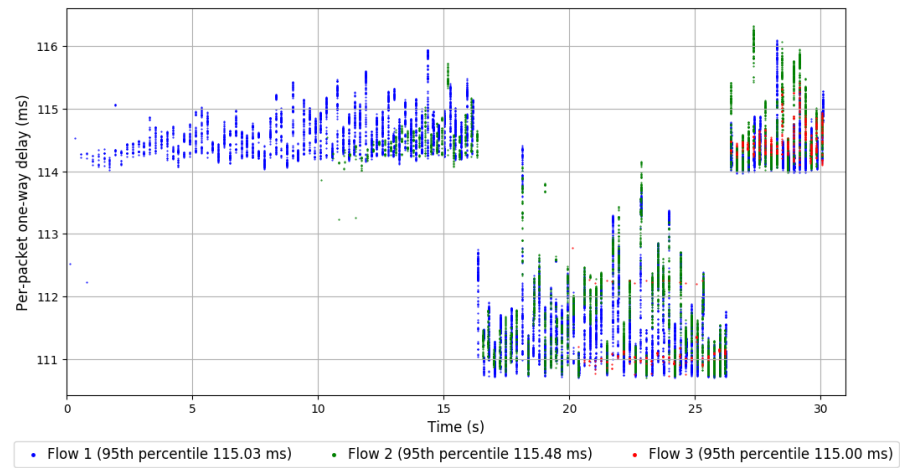
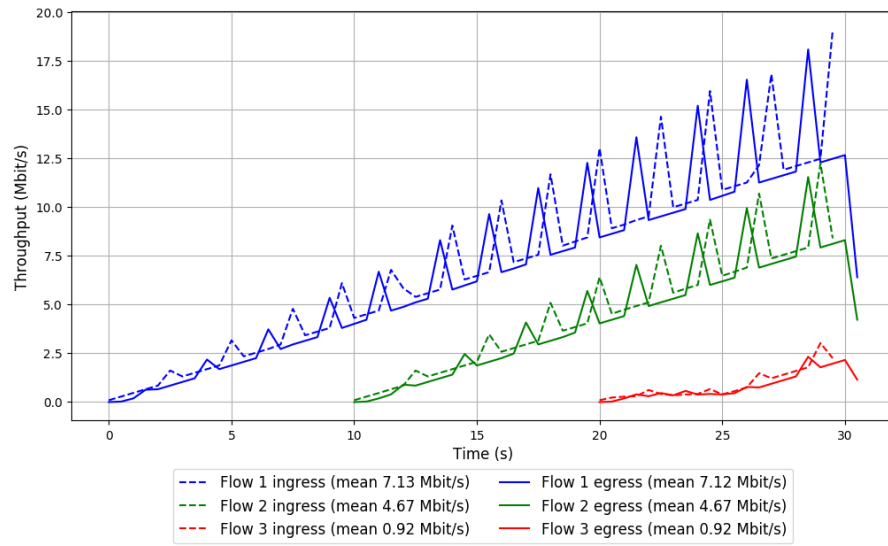


Run 2: Statistics of LEDBAT

Start at: 2018-06-05 08:45:09  
End at: 2018-06-05 08:45:39  
Local clock offset: -0.12 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-05 13:20:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.54 Mbit/s  
95th percentile per-packet one-way delay: 115.119 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.12 Mbit/s  
95th percentile per-packet one-way delay: 115.034 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.67 Mbit/s  
95th percentile per-packet one-way delay: 115.484 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.92 Mbit/s  
95th percentile per-packet one-way delay: 114.999 ms  
Loss rate: 0.00%

## Run 2: Report of LEDBAT — Data Link



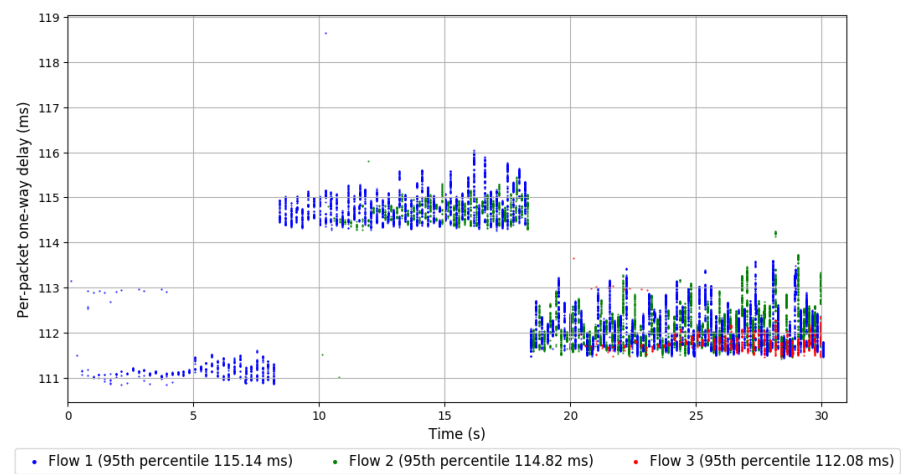
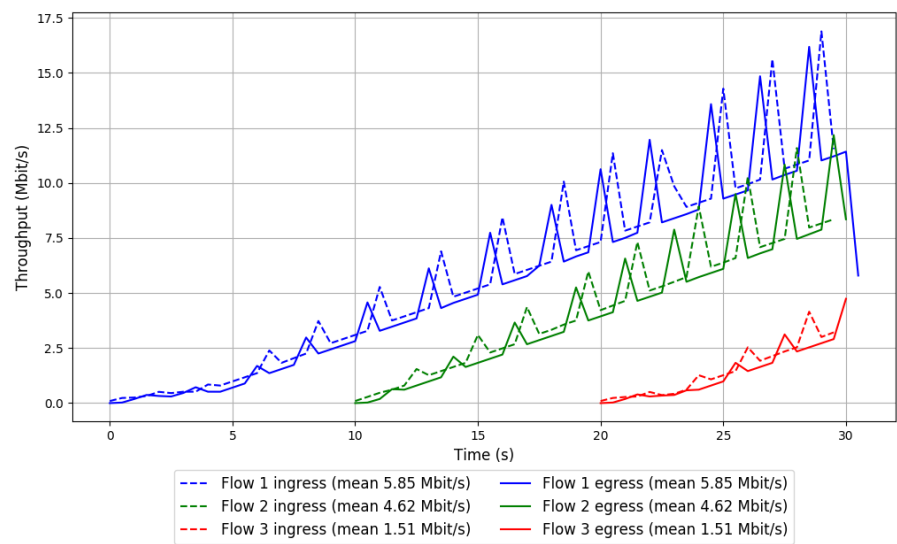
Run 3: Statistics of LEDBAT

Start at: 2018-06-05 09:09:07  
End at: 2018-06-05 09:09:37  
Local clock offset: -0.271 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-05 13:20:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 115.023 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.85 Mbit/s  
95th percentile per-packet one-way delay: 115.142 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.62 Mbit/s  
95th percentile per-packet one-way delay: 114.822 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.51 Mbit/s  
95th percentile per-packet one-way delay: 112.077 ms  
Loss rate: 0.00%



Run 3: Report of LEDBAT — Data Link

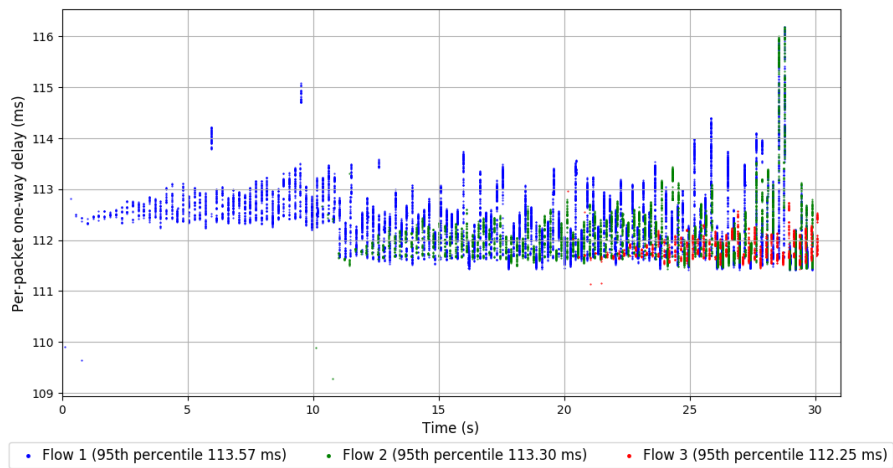
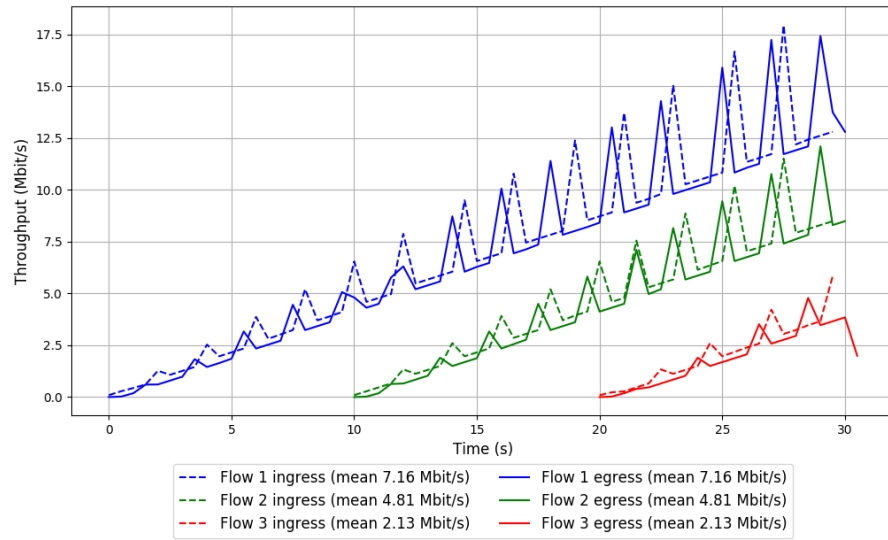


Run 4: Statistics of LEDBAT

Start at: 2018-06-05 09:33:04  
End at: 2018-06-05 09:33:34  
Local clock offset: -0.198 ms  
Remote clock offset: -0.451 ms

# Below is generated by plot.py at 2018-06-05 13:20:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 10.99 Mbit/s  
95th percentile per-packet one-way delay: 113.440 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.16 Mbit/s  
95th percentile per-packet one-way delay: 113.569 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.81 Mbit/s  
95th percentile per-packet one-way delay: 113.298 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 112.252 ms  
Loss rate: 0.00%

#### Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-05 09:56:52

End at: 2018-06-05 09:57:22

Local clock offset: 0.162 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-06-05 13:20:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 9.96 Mbit/s

95th percentile per-packet one-way delay: 111.764 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 111.823 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.39 Mbit/s

95th percentile per-packet one-way delay: 111.302 ms

Loss rate: 0.00%

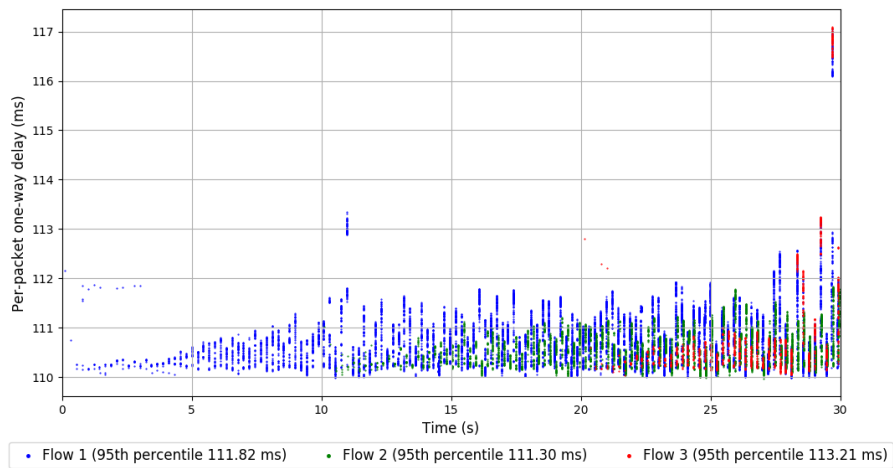
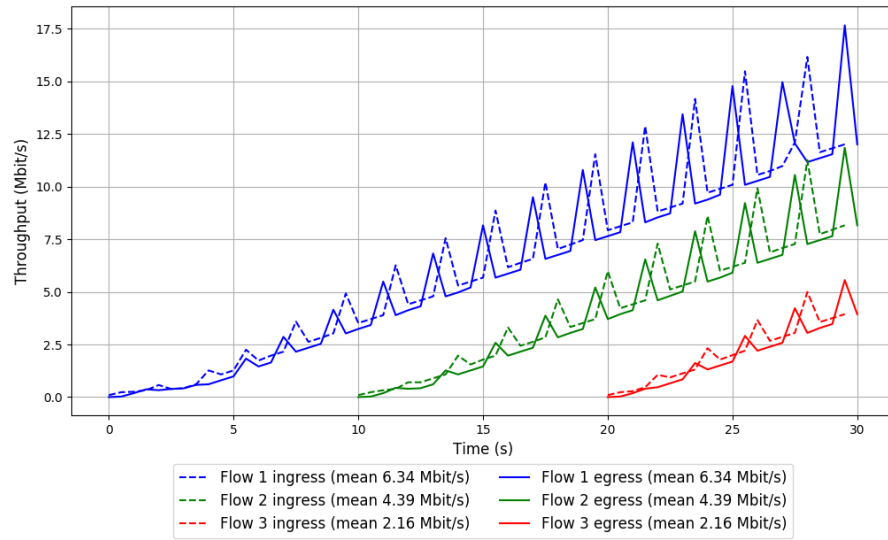
-- Flow 3:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.209 ms

Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link

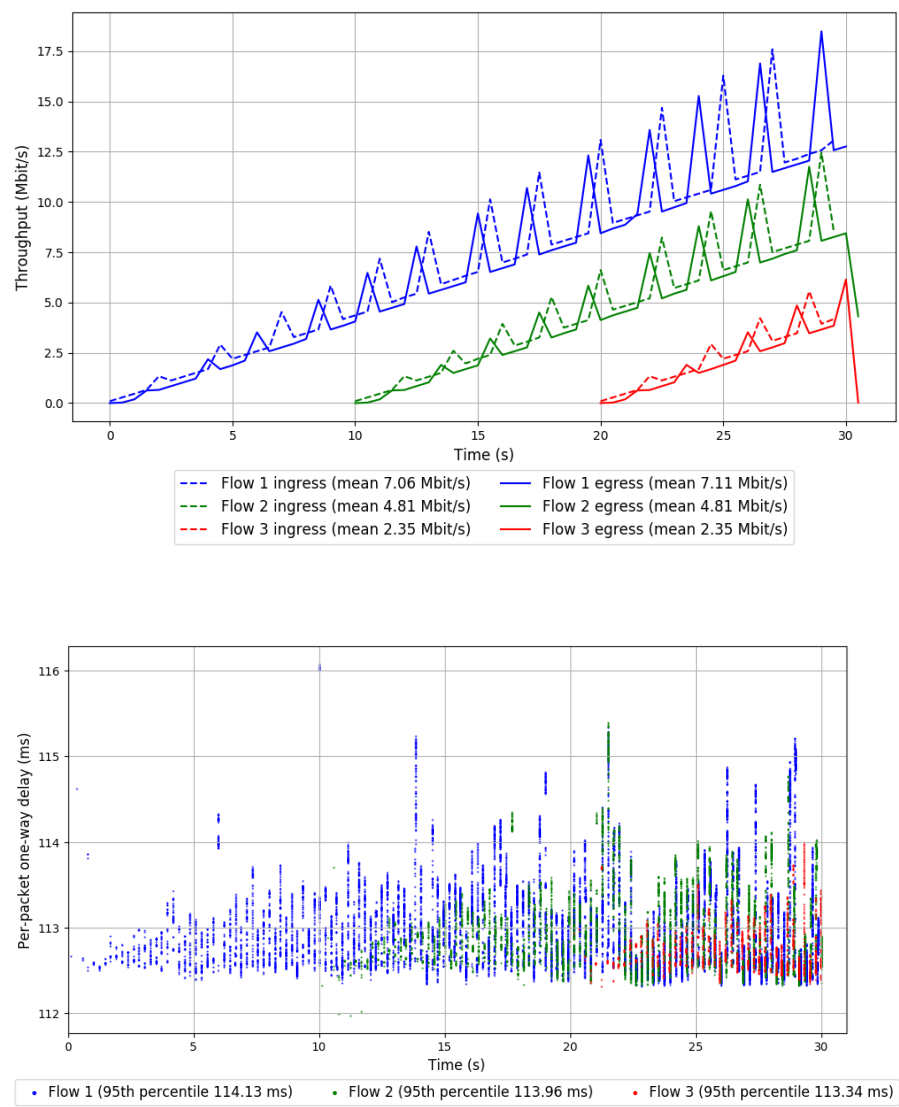


Run 6: Statistics of LEDBAT

Start at: 2018-06-05 10:20:21  
End at: 2018-06-05 10:20:51  
Local clock offset: -0.033 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-05 13:20:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.04 Mbit/s  
95th percentile per-packet one-way delay: 114.023 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 7.11 Mbit/s  
95th percentile per-packet one-way delay: 114.129 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 4.81 Mbit/s  
95th percentile per-packet one-way delay: 113.964 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 113.341 ms  
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-05 10:44:07

End at: 2018-06-05 10:44:37

Local clock offset: -0.155 ms

Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2018-06-05 13:20:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 11.02 Mbit/s

95th percentile per-packet one-way delay: 113.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 113.849 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 4.66 Mbit/s

95th percentile per-packet one-way delay: 113.218 ms

Loss rate: 0.00%

-- Flow 3:

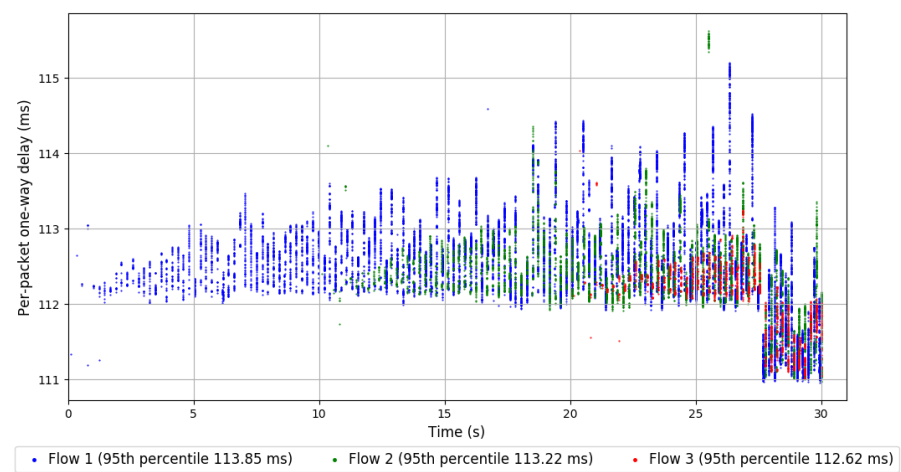
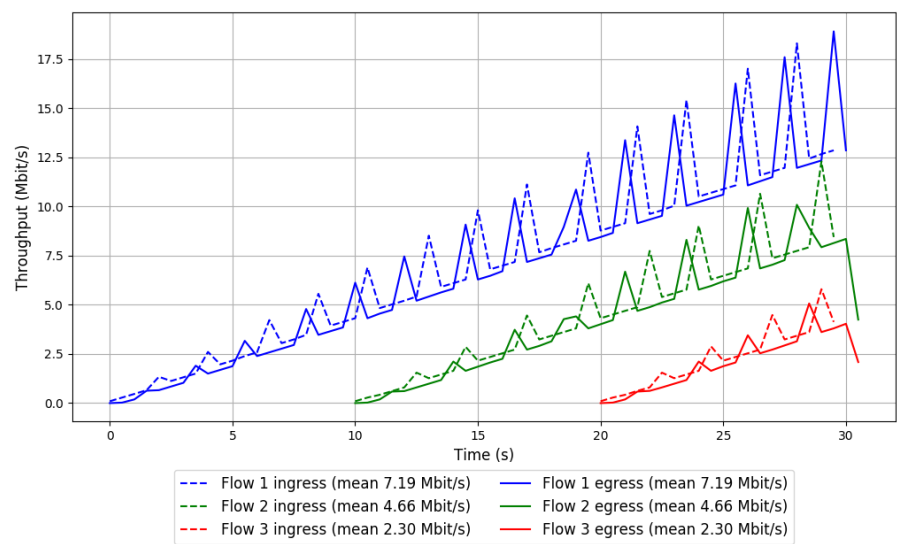
Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 112.624 ms

Loss rate: 0.00%



Run 7: Report of LEDBAT — Data Link

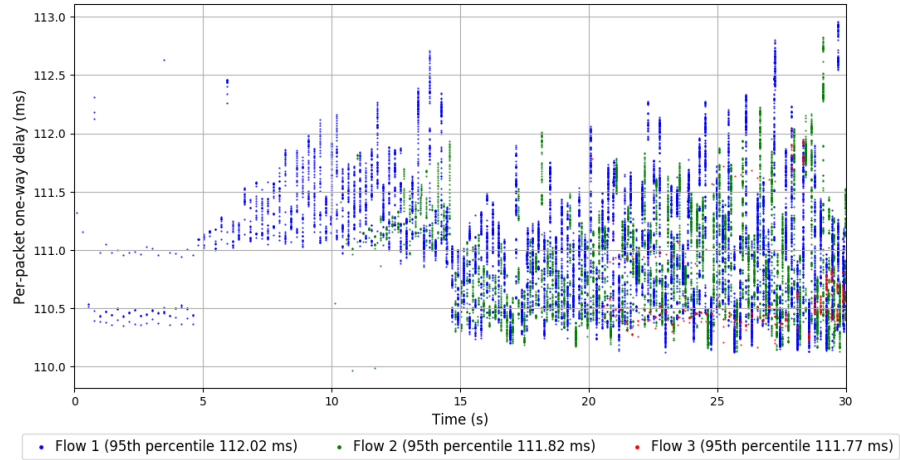
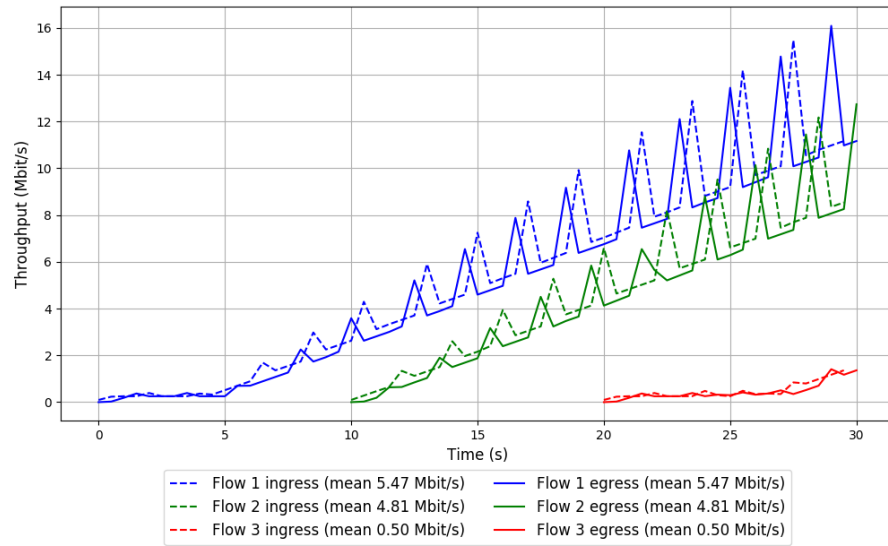


Run 8: Statistics of LEDBAT

Start at: 2018-06-05 11:08:00  
End at: 2018-06-05 11:08:30  
Local clock offset: -0.056 ms  
Remote clock offset: -0.474 ms

# Below is generated by plot.py at 2018-06-05 13:20:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.82 Mbit/s  
95th percentile per-packet one-way delay: 111.909 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.47 Mbit/s  
95th percentile per-packet one-way delay: 112.017 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.81 Mbit/s  
95th percentile per-packet one-way delay: 111.819 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.50 Mbit/s  
95th percentile per-packet one-way delay: 111.774 ms  
Loss rate: 0.00%

# Run 8: Report of LEDBAT — Data Link

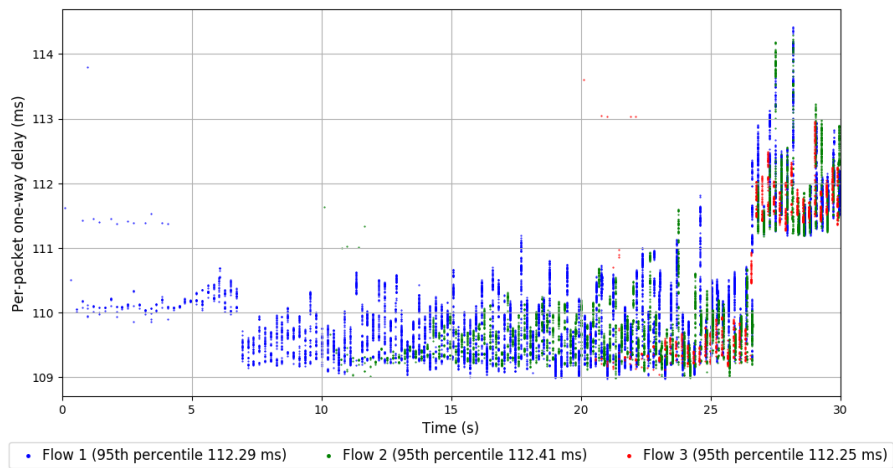
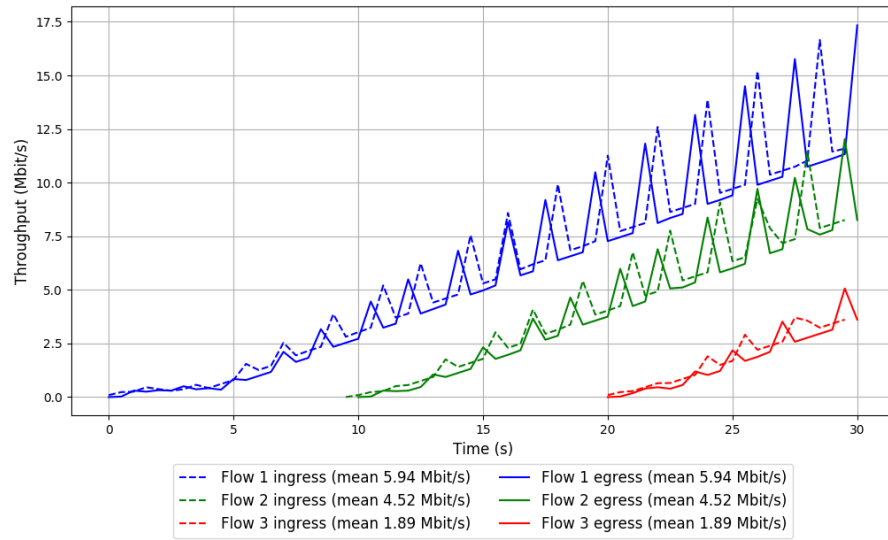


Run 9: Statistics of LEDBAT

Start at: 2018-06-05 11:31:48  
End at: 2018-06-05 11:32:18  
Local clock offset: 0.016 ms  
Remote clock offset: -0.435 ms

# Below is generated by plot.py at 2018-06-05 13:20:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 112.322 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 5.94 Mbit/s  
95th percentile per-packet one-way delay: 112.290 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.52 Mbit/s  
95th percentile per-packet one-way delay: 112.410 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.89 Mbit/s  
95th percentile per-packet one-way delay: 112.254 ms  
Loss rate: 0.00%

## Run 9: Report of LEDBAT — Data Link

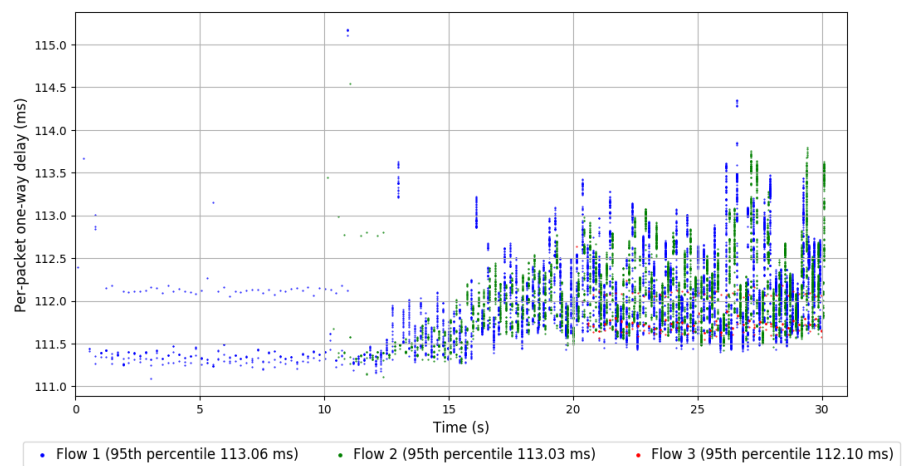
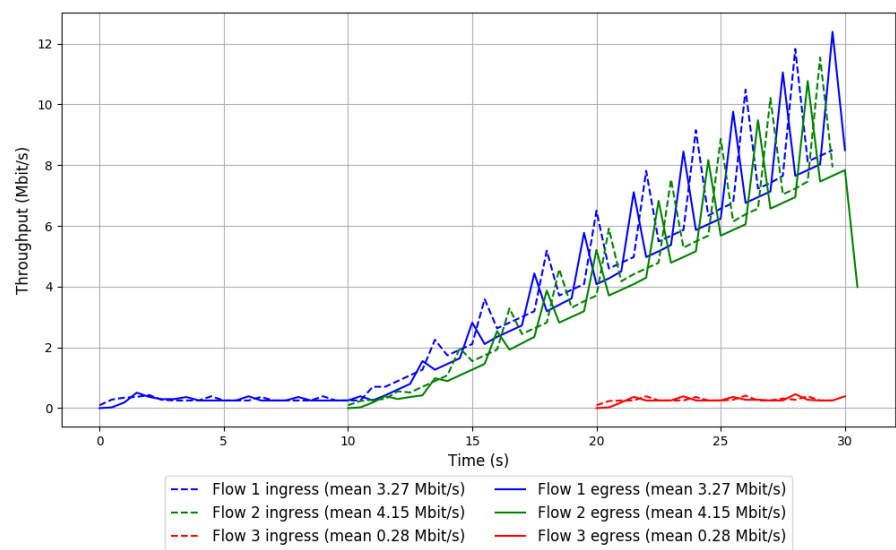


Run 10: Statistics of LEDBAT

Start at: 2018-06-05 11:55:19  
End at: 2018-06-05 11:55:49  
Local clock offset: -0.223 ms  
Remote clock offset: -0.458 ms

# Below is generated by plot.py at 2018-06-05 13:20:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.11 Mbit/s  
95th percentile per-packet one-way delay: 113.048 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 3.27 Mbit/s  
95th percentile per-packet one-way delay: 113.061 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 4.15 Mbit/s  
95th percentile per-packet one-way delay: 113.033 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.28 Mbit/s  
95th percentile per-packet one-way delay: 112.101 ms  
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



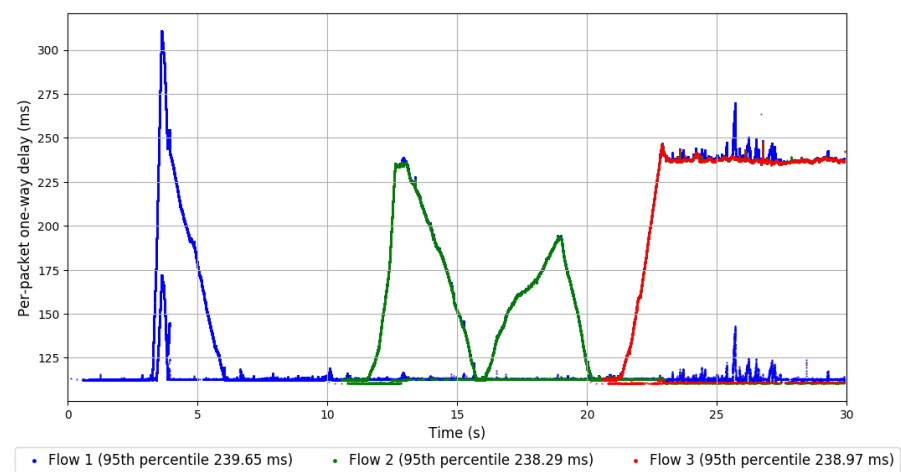
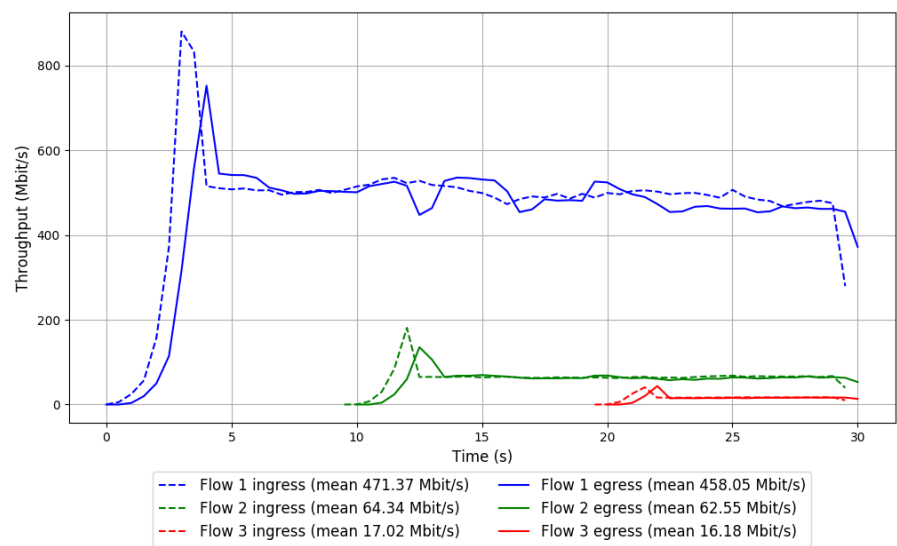
```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-05 08:12:42
End at: 2018-06-05 08:13:12
Local clock offset: -0.16 ms
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2018-06-05 13:20:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 504.95 Mbit/s
95th percentile per-packet one-way delay: 239.434 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 458.05 Mbit/s
95th percentile per-packet one-way delay: 239.654 ms
Loss rate: 2.82%
-- Flow 2:
Average throughput: 62.55 Mbit/s
95th percentile per-packet one-way delay: 238.290 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 16.18 Mbit/s
95th percentile per-packet one-way delay: 238.970 ms
Loss rate: 4.89%
```



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-05 08:36:17

End at: 2018-06-05 08:36:47

Local clock offset: 0.013 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-05 13:20:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 467.13 Mbit/s

95th percentile per-packet one-way delay: 261.426 ms

Loss rate: 2.80%

-- Flow 1:

Average throughput: 454.89 Mbit/s

95th percentile per-packet one-way delay: 261.451 ms

Loss rate: 2.87%

-- Flow 2:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 258.330 ms

Loss rate: 1.07%

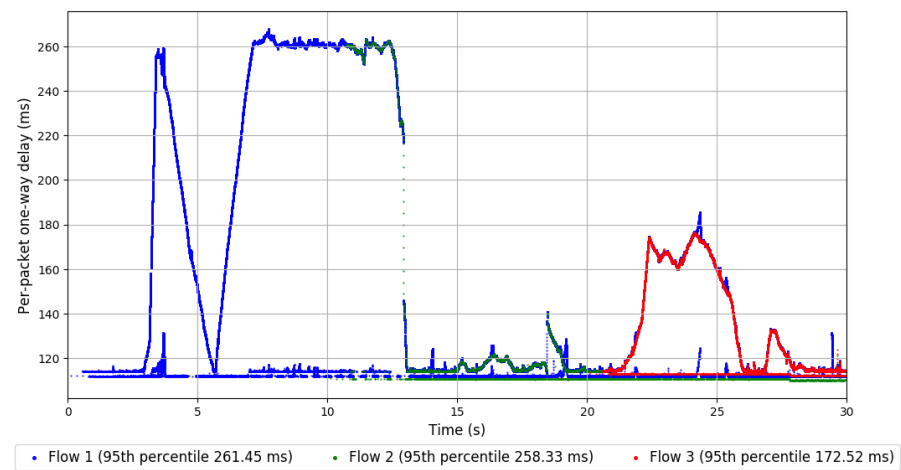
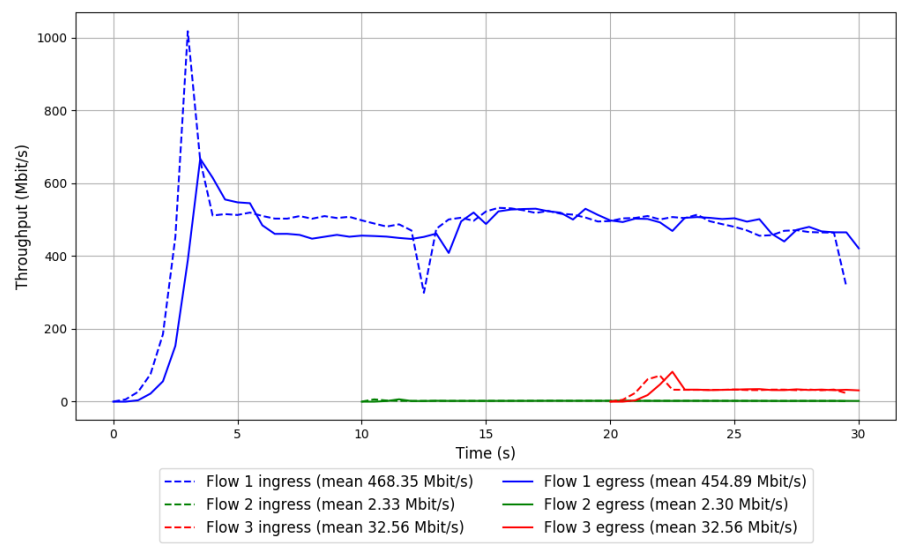
-- Flow 3:

Average throughput: 32.56 Mbit/s

95th percentile per-packet one-way delay: 172.517 ms

Loss rate: 0.01%

Run 2: Report of PCC-Allegro — Data Link

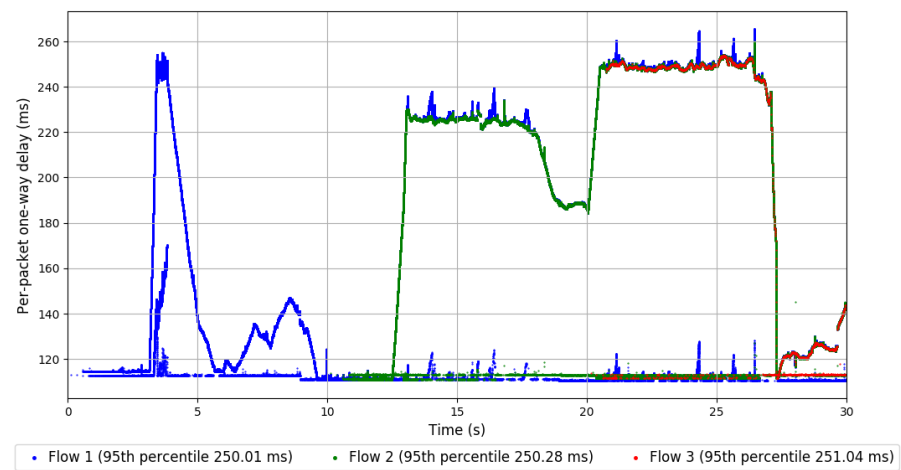
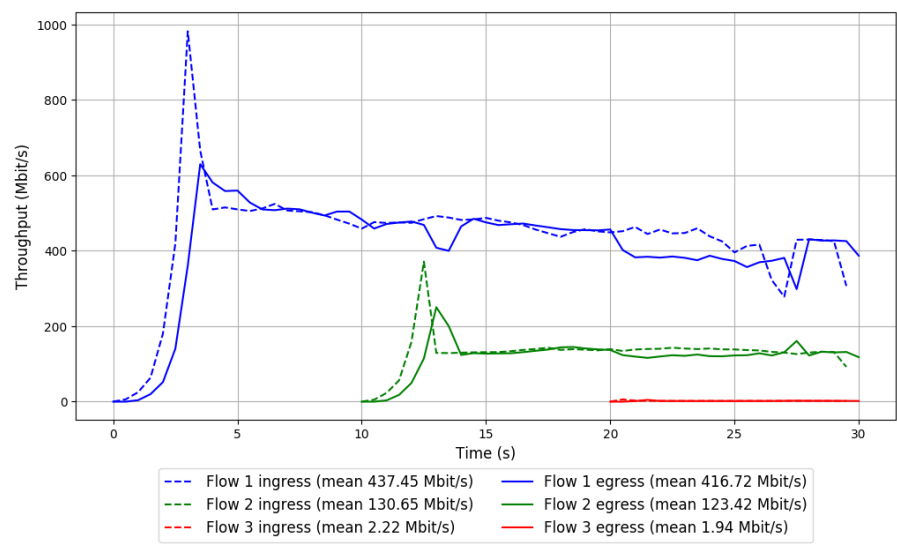


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-05 09:00:06  
End at: 2018-06-05 09:00:36  
Local clock offset: -0.244 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-06-05 13:20:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 499.34 Mbit/s  
95th percentile per-packet one-way delay: 250.068 ms  
Loss rate: 4.88%  
-- Flow 1:  
Average throughput: 416.72 Mbit/s  
95th percentile per-packet one-way delay: 250.008 ms  
Loss rate: 4.74%  
-- Flow 2:  
Average throughput: 123.42 Mbit/s  
95th percentile per-packet one-way delay: 250.280 ms  
Loss rate: 5.52%  
-- Flow 3:  
Average throughput: 1.94 Mbit/s  
95th percentile per-packet one-way delay: 251.043 ms  
Loss rate: 12.52%

Run 3: Report of PCC-Allegro — Data Link

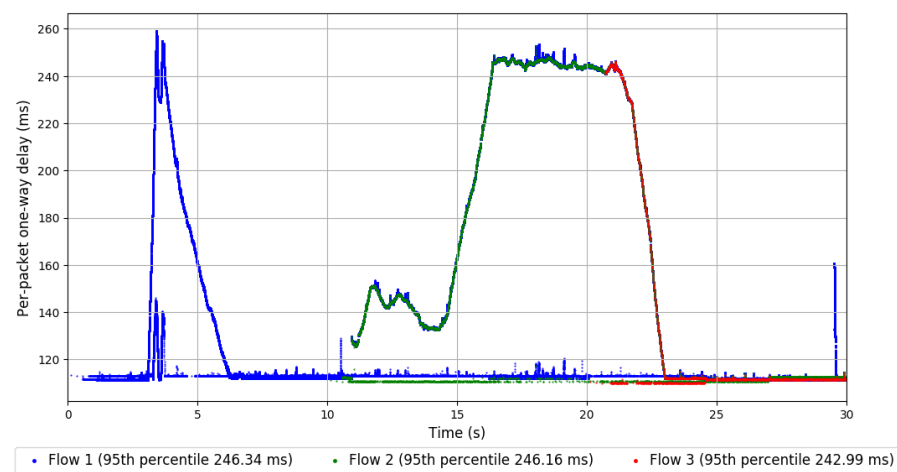
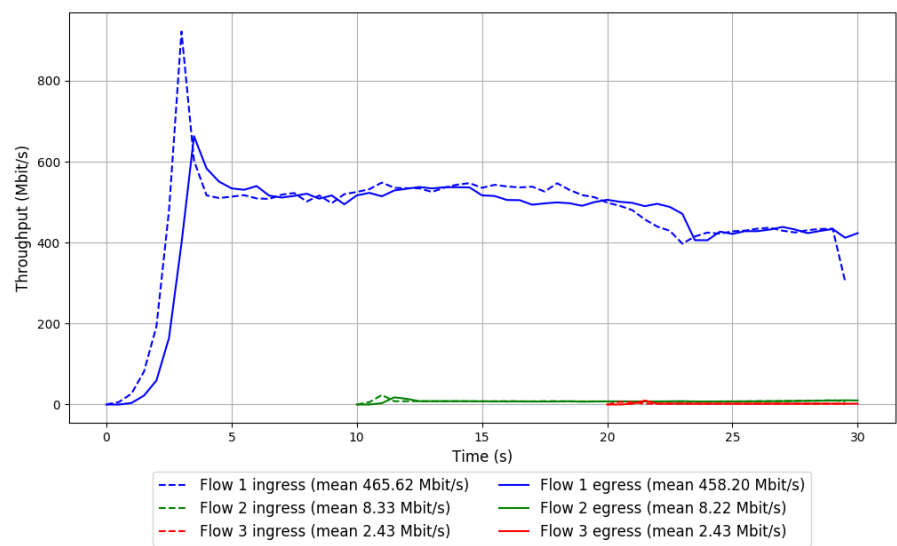


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-05 09:24:00  
End at: 2018-06-05 09:24:30  
Local clock offset: -0.22 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-06-05 13:20:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 464.46 Mbit/s  
95th percentile per-packet one-way delay: 246.326 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 458.20 Mbit/s  
95th percentile per-packet one-way delay: 246.335 ms  
Loss rate: 1.60%  
-- Flow 2:  
Average throughput: 8.22 Mbit/s  
95th percentile per-packet one-way delay: 246.160 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 2.43 Mbit/s  
95th percentile per-packet one-way delay: 242.988 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-05 09:47:45

End at: 2018-06-05 09:48:15

Local clock offset: -0.126 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-05 13:20:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 486.67 Mbit/s

95th percentile per-packet one-way delay: 264.148 ms

Loss rate: 4.51%

-- Flow 1:

Average throughput: 444.53 Mbit/s

95th percentile per-packet one-way delay: 264.078 ms

Loss rate: 4.48%

-- Flow 2:

Average throughput: 62.43 Mbit/s

95th percentile per-packet one-way delay: 264.961 ms

Loss rate: 4.82%

-- Flow 3:

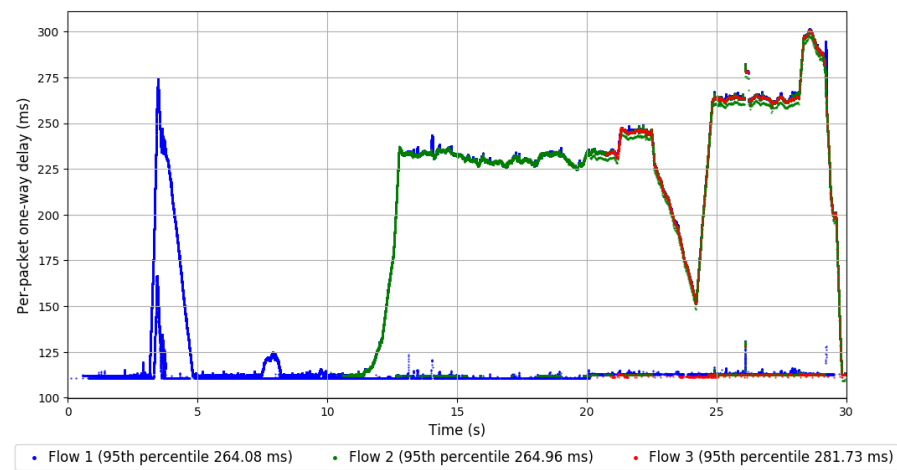
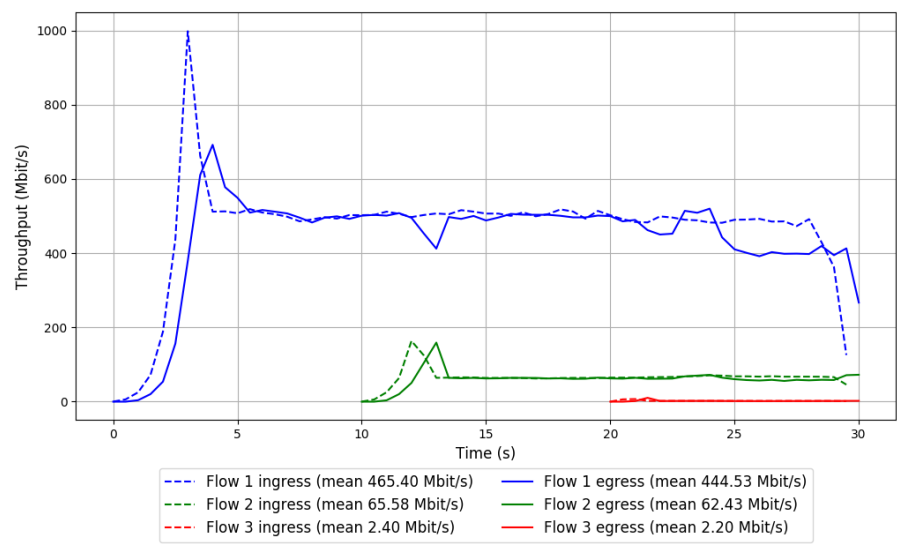
Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 281.726 ms

Loss rate: 8.41%



Run 5: Report of PCC-Allegro — Data Link

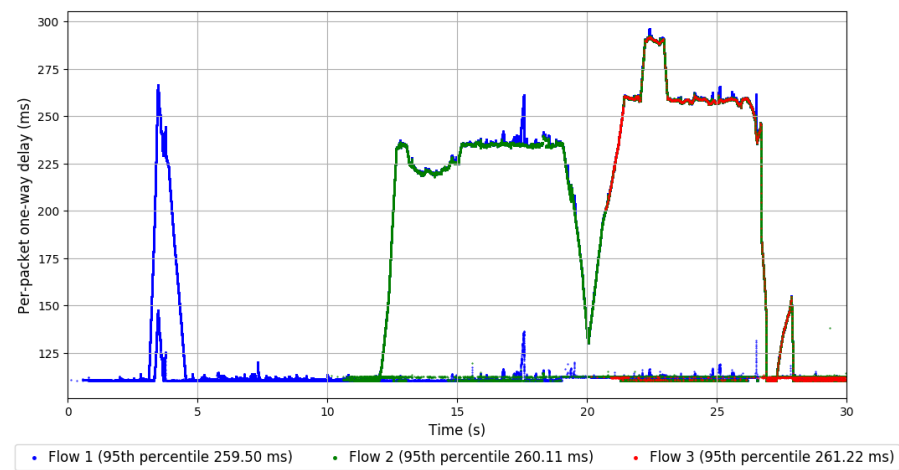
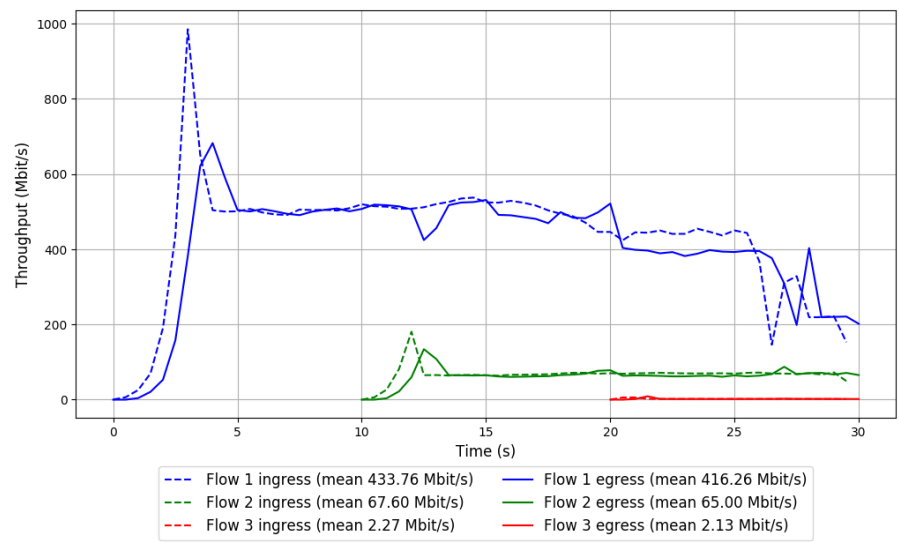


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-05 10:11:16  
End at: 2018-06-05 10:11:46  
Local clock offset: -0.205 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-05 13:20:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 460.07 Mbit/s  
95th percentile per-packet one-way delay: 259.539 ms  
Loss rate: 4.02%  
-- Flow 1:  
Average throughput: 416.26 Mbit/s  
95th percentile per-packet one-way delay: 259.496 ms  
Loss rate: 4.04%  
-- Flow 2:  
Average throughput: 65.00 Mbit/s  
95th percentile per-packet one-way delay: 260.113 ms  
Loss rate: 3.84%  
-- Flow 3:  
Average throughput: 2.13 Mbit/s  
95th percentile per-packet one-way delay: 261.220 ms  
Loss rate: 6.25%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-05 10:35:02

End at: 2018-06-05 10:35:32

Local clock offset: -0.064 ms

Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2018-06-05 13:22:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 468.81 Mbit/s

95th percentile per-packet one-way delay: 261.239 ms

Loss rate: 5.42%

-- Flow 1:

Average throughput: 457.09 Mbit/s

95th percentile per-packet one-way delay: 261.268 ms

Loss rate: 5.44%

-- Flow 2:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 261.682 ms

Loss rate: 5.75%

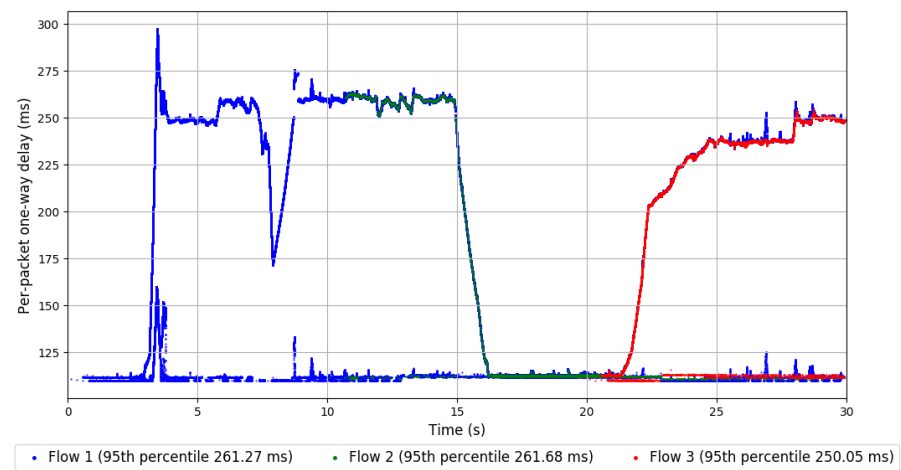
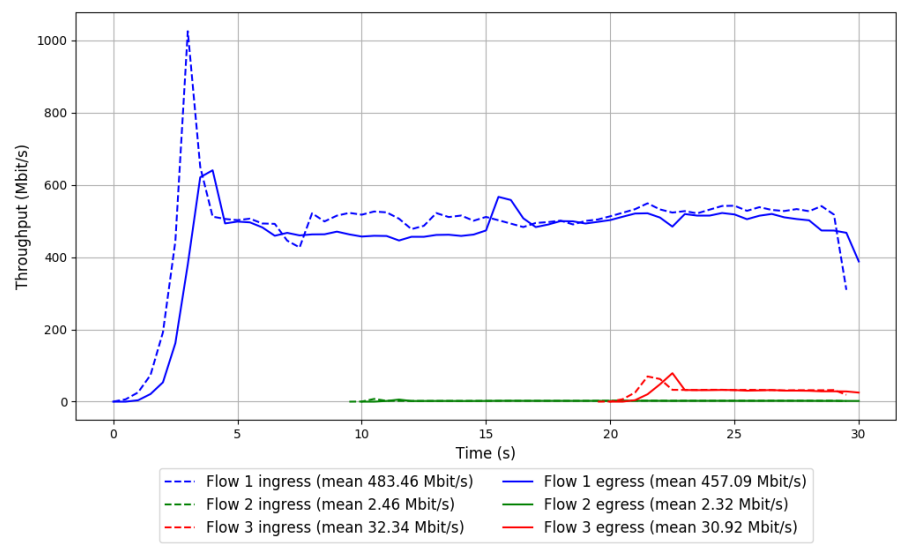
-- Flow 3:

Average throughput: 30.92 Mbit/s

95th percentile per-packet one-way delay: 250.052 ms

Loss rate: 4.35%

Run 7: Report of PCC-Allegro — Data Link

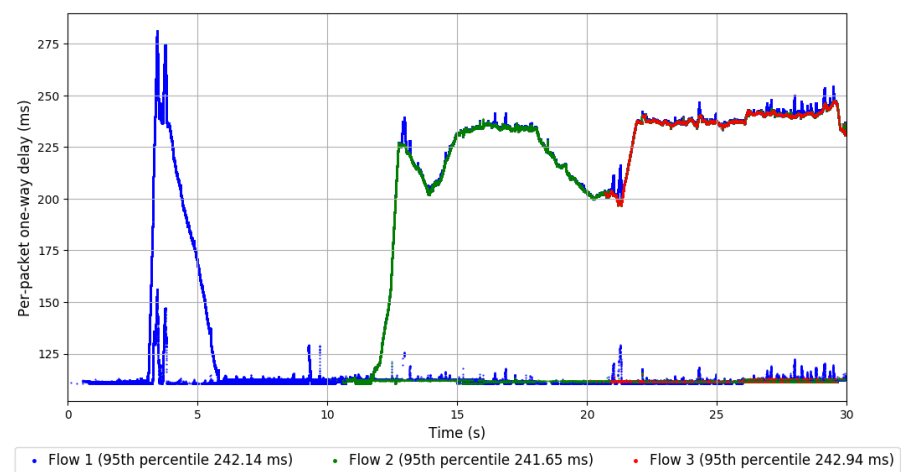
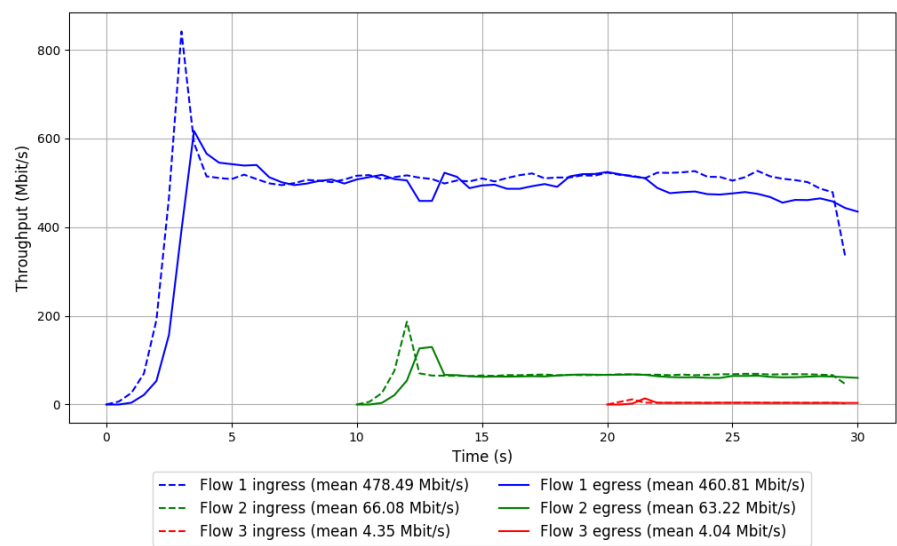


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-05 10:58:59  
End at: 2018-06-05 10:59:29  
Local clock offset: -0.605 ms  
Remote clock offset: -0.441 ms

# Below is generated by plot.py at 2018-06-05 13:23:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 504.07 Mbit/s  
95th percentile per-packet one-way delay: 242.074 ms  
Loss rate: 3.74%  
-- Flow 1:  
Average throughput: 460.81 Mbit/s  
95th percentile per-packet one-way delay: 242.138 ms  
Loss rate: 3.68%  
-- Flow 2:  
Average throughput: 63.22 Mbit/s  
95th percentile per-packet one-way delay: 241.653 ms  
Loss rate: 4.31%  
-- Flow 3:  
Average throughput: 4.04 Mbit/s  
95th percentile per-packet one-way delay: 242.943 ms  
Loss rate: 6.97%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-05 11:22:48

End at: 2018-06-05 11:23:18

Local clock offset: -0.27 ms

Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2018-06-05 13:25:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 497.09 Mbit/s

95th percentile per-packet one-way delay: 246.540 ms

Loss rate: 3.03%

-- Flow 1:

Average throughput: 466.10 Mbit/s

95th percentile per-packet one-way delay: 246.602 ms

Loss rate: 3.02%

-- Flow 2:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 245.843 ms

Loss rate: 2.45%

-- Flow 3:

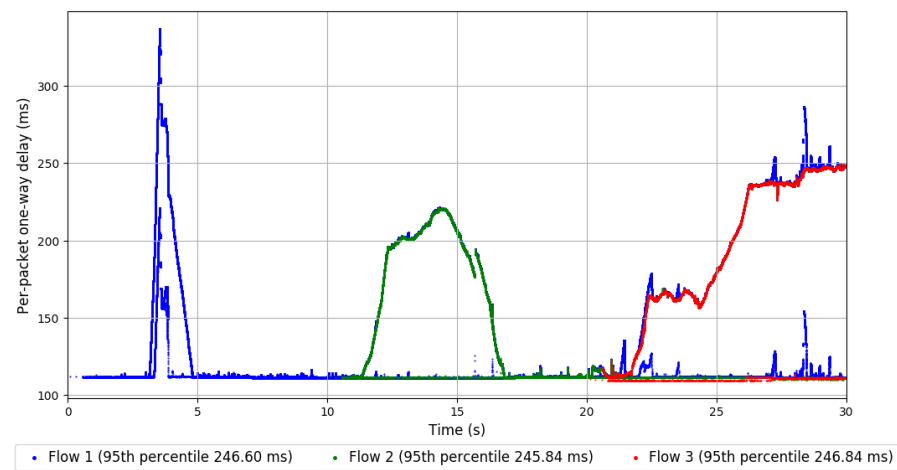
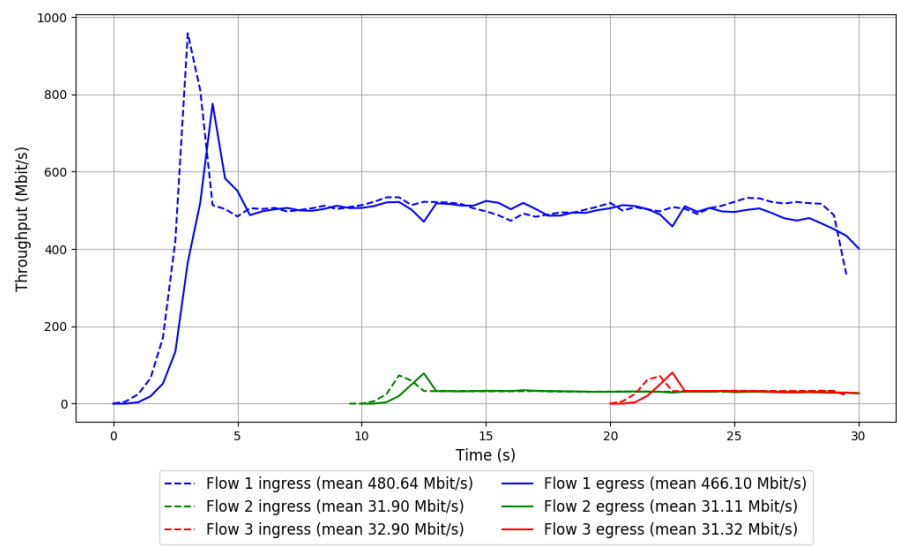
Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 246.841 ms

Loss rate: 4.77%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-05 11:46:28

End at: 2018-06-05 11:46:58

Local clock offset: -0.183 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-05 13:25:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 459.01 Mbit/s

95th percentile per-packet one-way delay: 247.932 ms

Loss rate: 2.40%

-- Flow 1:

Average throughput: 436.04 Mbit/s

95th percentile per-packet one-way delay: 247.982 ms

Loss rate: 2.44%

-- Flow 2:

Average throughput: 33.43 Mbit/s

95th percentile per-packet one-way delay: 247.381 ms

Loss rate: 1.65%

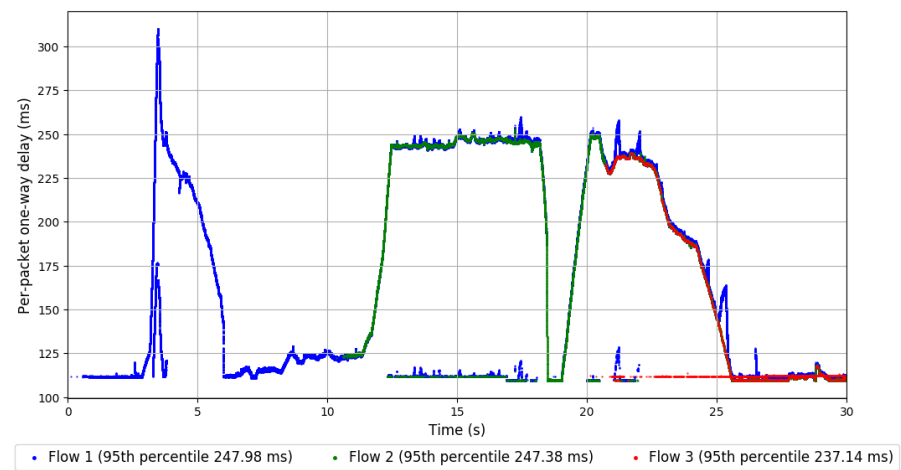
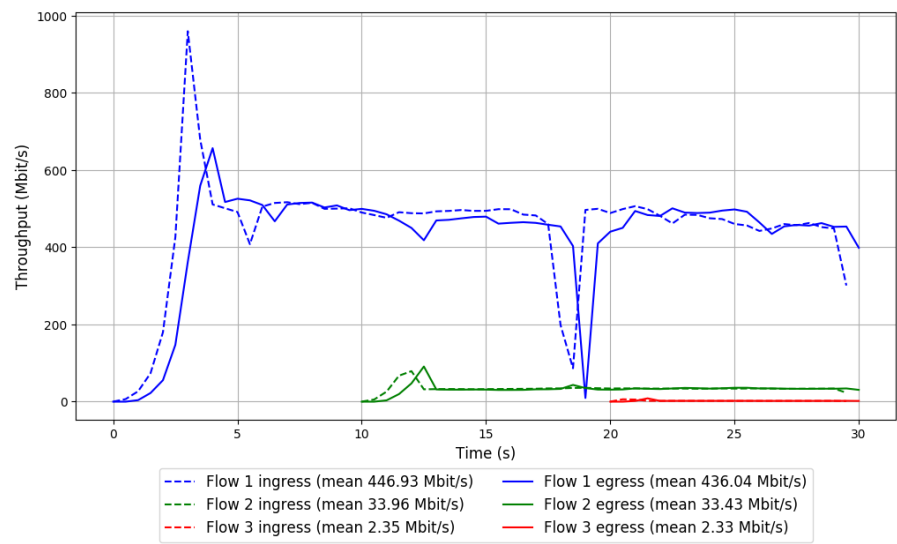
-- Flow 3:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 237.138 ms

Loss rate: 0.94%

Run 10: Report of PCC-Allegro — Data Link

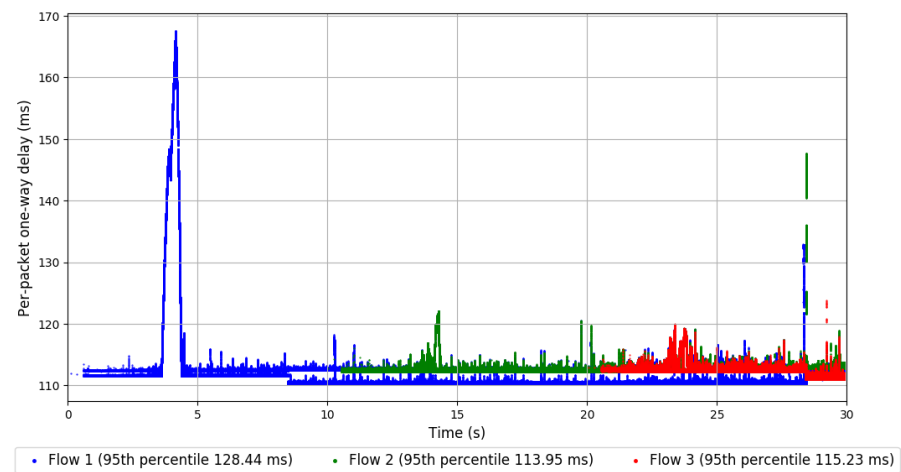
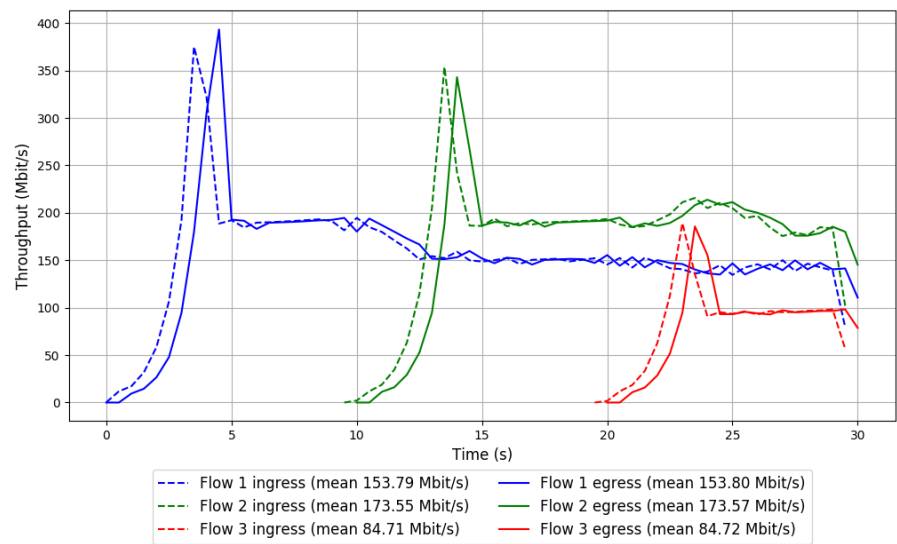


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-05 08:14:16
End at: 2018-06-05 08:14:46
Local clock offset: -0.158 ms
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-05 13:27:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 297.58 Mbit/s
95th percentile per-packet one-way delay: 115.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.80 Mbit/s
95th percentile per-packet one-way delay: 128.441 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 173.57 Mbit/s
95th percentile per-packet one-way delay: 113.954 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 115.231 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

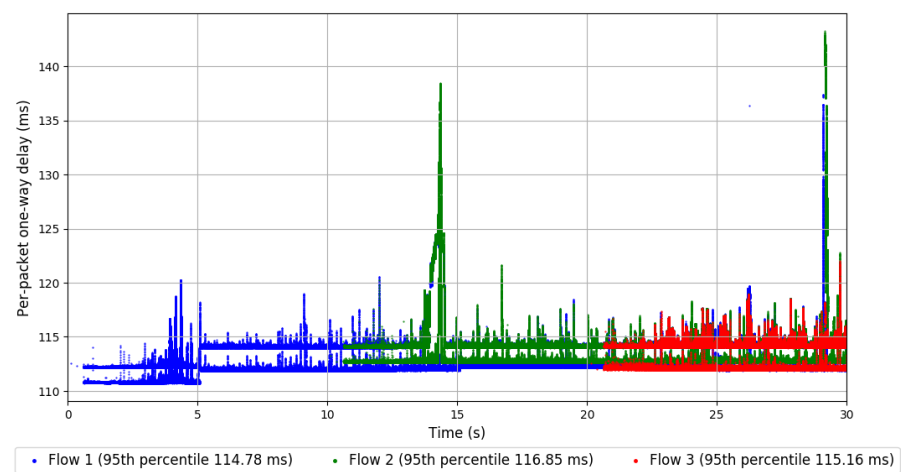
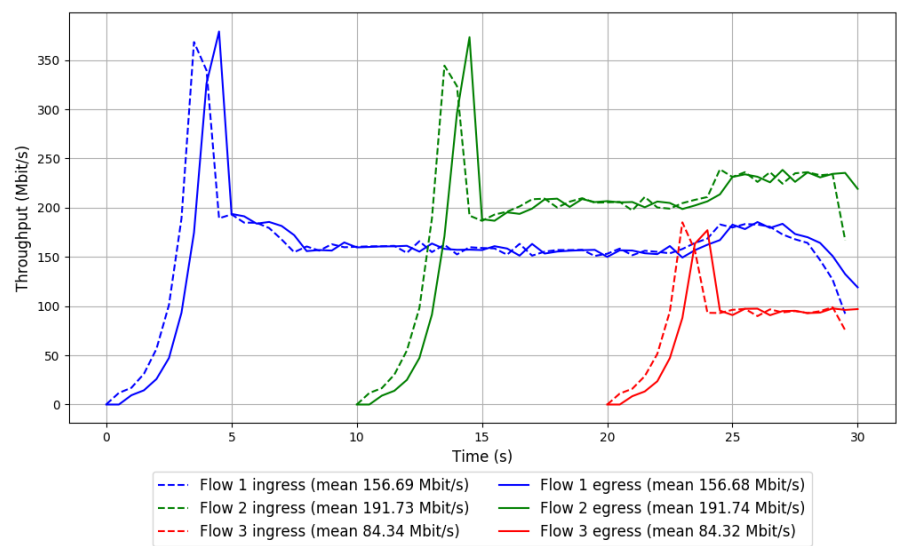


Run 2: Statistics of PCC-Expr

Start at: 2018-06-05 08:37:50  
End at: 2018-06-05 08:38:20  
Local clock offset: -0.131 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-06-05 13:27:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 311.92 Mbit/s  
95th percentile per-packet one-way delay: 115.369 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 156.68 Mbit/s  
95th percentile per-packet one-way delay: 114.777 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 191.74 Mbit/s  
95th percentile per-packet one-way delay: 116.849 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 84.32 Mbit/s  
95th percentile per-packet one-way delay: 115.164 ms  
Loss rate: 0.04%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-05 09:01:40

End at: 2018-06-05 09:02:10

Local clock offset: -0.152 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-05 13:30:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 405.35 Mbit/s

95th percentile per-packet one-way delay: 190.258 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 278.53 Mbit/s

95th percentile per-packet one-way delay: 205.658 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 167.94 Mbit/s

95th percentile per-packet one-way delay: 147.426 ms

Loss rate: 0.05%

-- Flow 3:

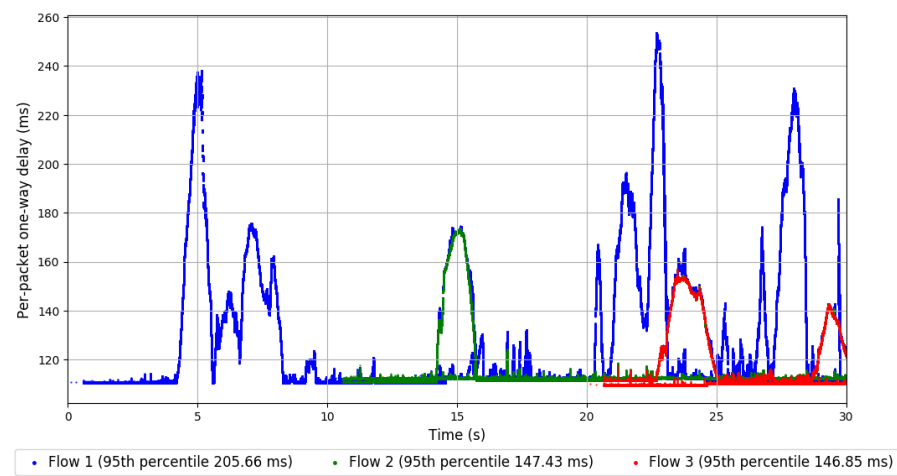
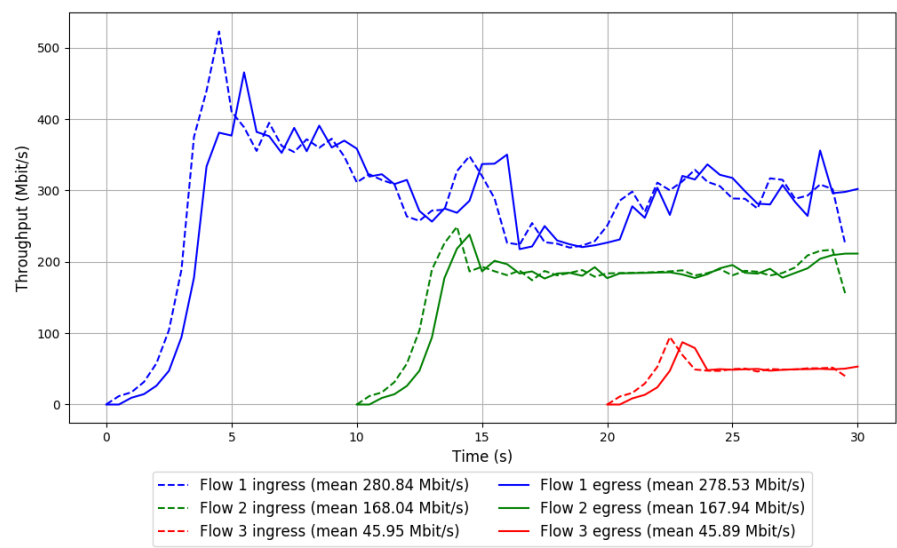
Average throughput: 45.89 Mbit/s

95th percentile per-packet one-way delay: 146.849 ms

Loss rate: 0.08%



Run 3: Report of PCC-Expr — Data Link

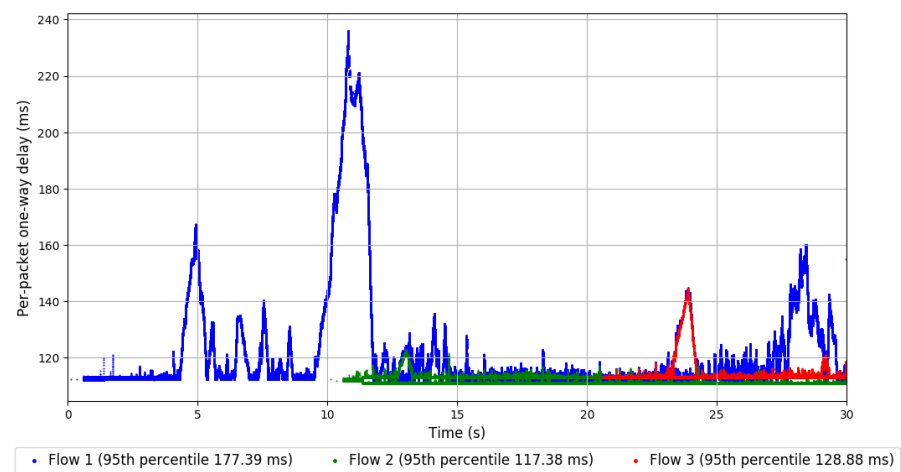
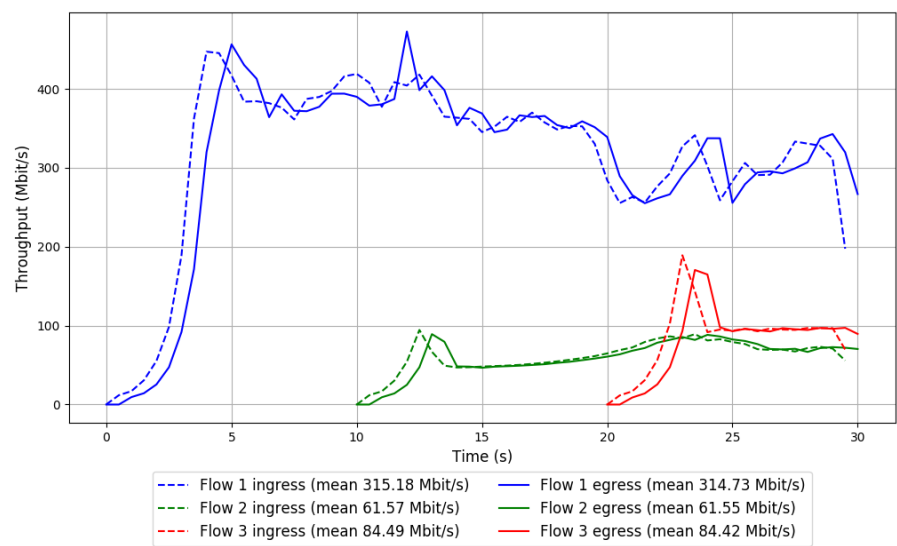


Run 4: Statistics of PCC-Expr

Start at: 2018-06-05 09:25:33  
End at: 2018-06-05 09:26:03  
Local clock offset: -0.498 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-05 13:33:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 383.51 Mbit/s  
95th percentile per-packet one-way delay: 165.386 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 314.73 Mbit/s  
95th percentile per-packet one-way delay: 177.394 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 61.55 Mbit/s  
95th percentile per-packet one-way delay: 117.383 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 84.42 Mbit/s  
95th percentile per-packet one-way delay: 128.878 ms  
Loss rate: 0.13%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-05 09:49:19

End at: 2018-06-05 09:49:49

Local clock offset: -0.329 ms

Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-06-05 13:33:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 308.96 Mbit/s

95th percentile per-packet one-way delay: 115.183 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 181.69 Mbit/s

95th percentile per-packet one-way delay: 115.883 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 148.93 Mbit/s

95th percentile per-packet one-way delay: 116.059 ms

Loss rate: 0.00%

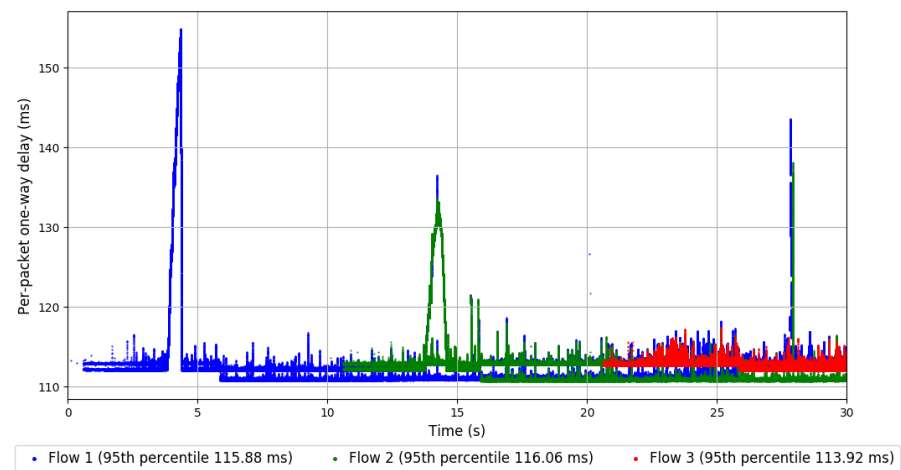
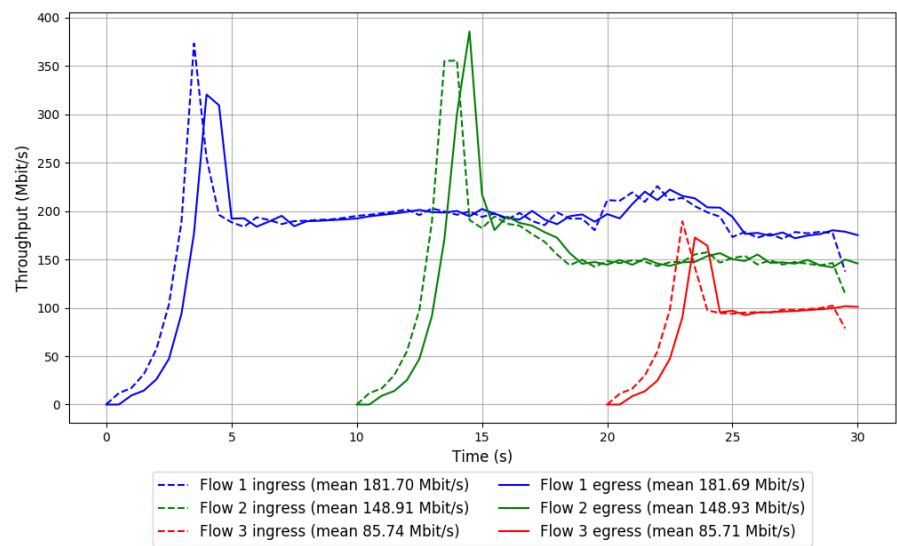
-- Flow 3:

Average throughput: 85.71 Mbit/s

95th percentile per-packet one-way delay: 113.917 ms

Loss rate: 0.04%

Run 5: Report of PCC-Expr — Data Link

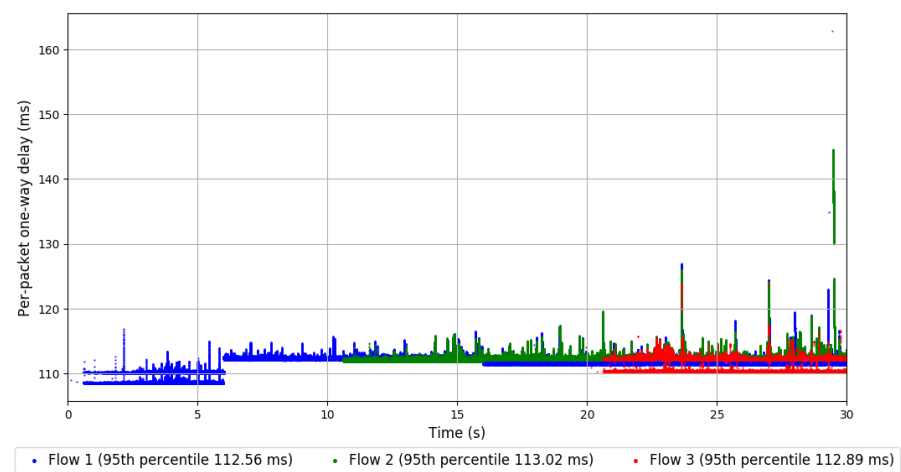
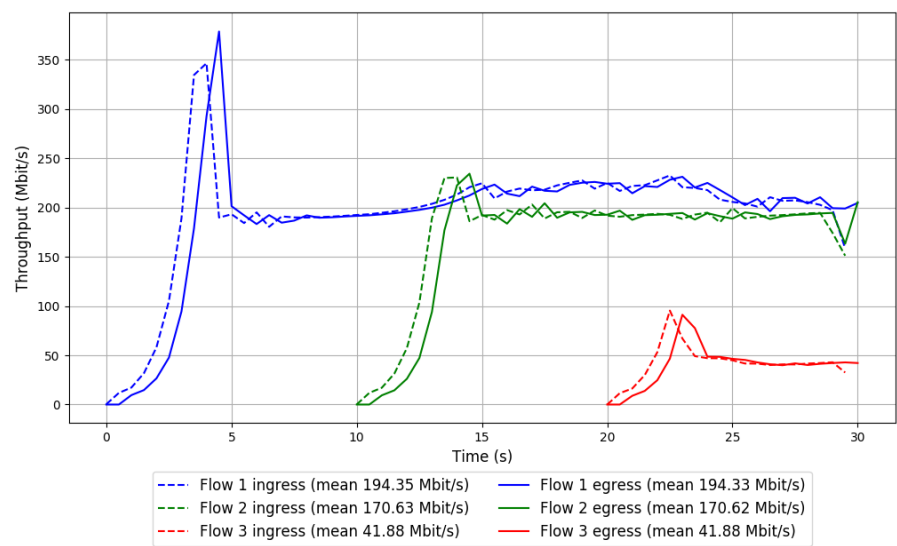


Run 6: Statistics of PCC-Expr

Start at: 2018-06-05 10:12:49  
End at: 2018-06-05 10:13:19  
Local clock offset: 0.232 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-06-05 13:33:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 321.60 Mbit/s  
95th percentile per-packet one-way delay: 112.719 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 194.33 Mbit/s  
95th percentile per-packet one-way delay: 112.561 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 170.62 Mbit/s  
95th percentile per-packet one-way delay: 113.015 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 41.88 Mbit/s  
95th percentile per-packet one-way delay: 112.889 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



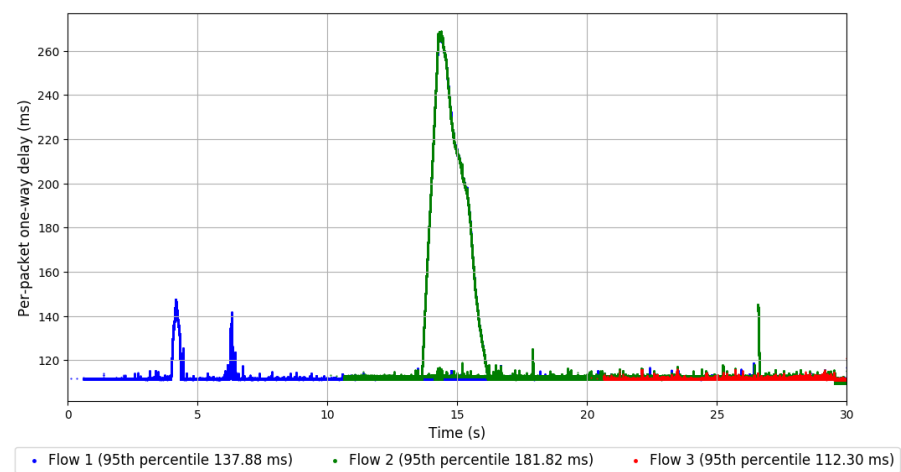
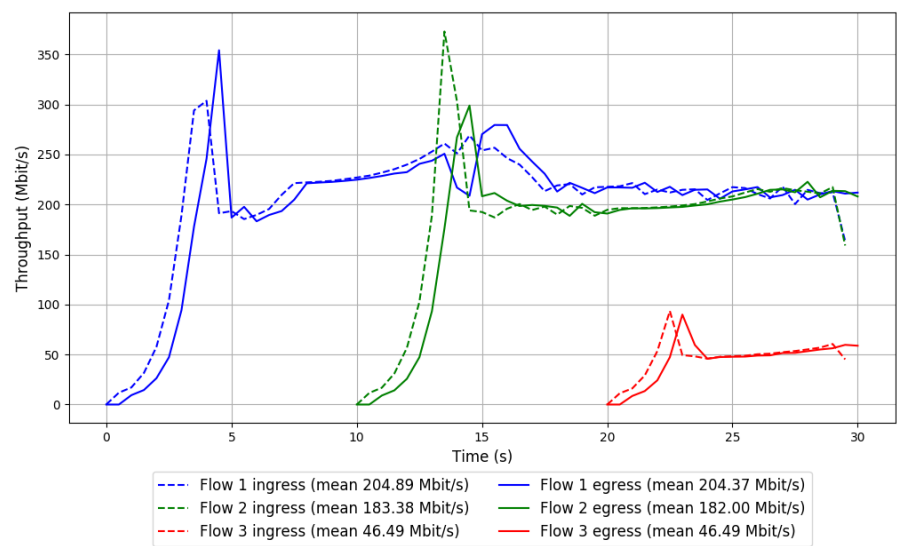
Run 7: Statistics of PCC-Expr

Start at: 2018-06-05 10:36:35  
End at: 2018-06-05 10:37:05  
Local clock offset: -0.063 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2018-06-05 13:36:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 340.66 Mbit/s  
95th percentile per-packet one-way delay: 142.558 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 204.37 Mbit/s  
95th percentile per-packet one-way delay: 137.876 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 182.00 Mbit/s  
95th percentile per-packet one-way delay: 181.823 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 46.49 Mbit/s  
95th percentile per-packet one-way delay: 112.304 ms  
Loss rate: 0.00%



Run 7: Report of PCC-Expr — Data Link

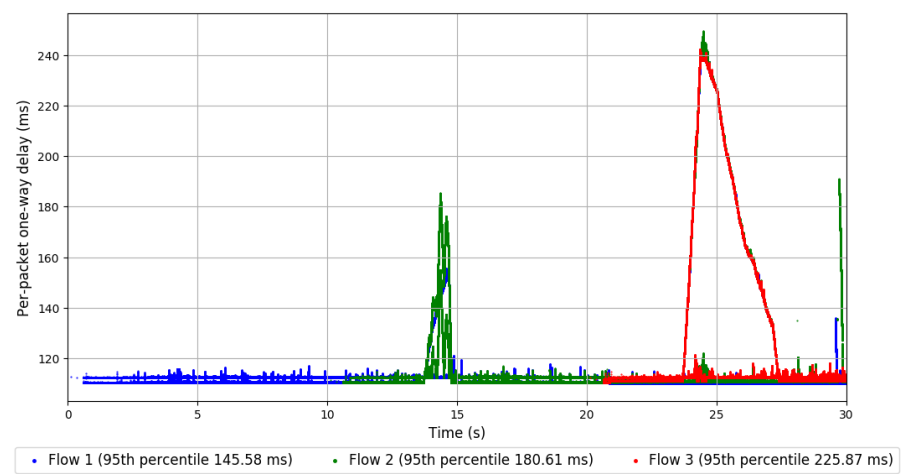
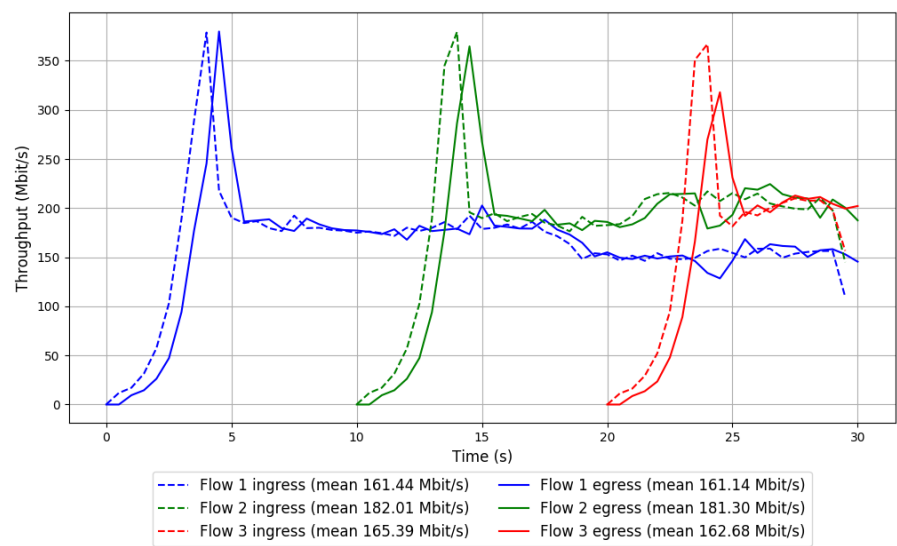


Run 8: Statistics of PCC-Expr

Start at: 2018-06-05 11:00:34  
End at: 2018-06-05 11:01:04  
Local clock offset: -0.226 ms  
Remote clock offset: -0.422 ms

# Below is generated by plot.py at 2018-06-05 13:36:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.34 Mbit/s  
95th percentile per-packet one-way delay: 179.519 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 161.14 Mbit/s  
95th percentile per-packet one-way delay: 145.577 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 181.30 Mbit/s  
95th percentile per-packet one-way delay: 180.611 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 162.68 Mbit/s  
95th percentile per-packet one-way delay: 225.866 ms  
Loss rate: 1.64%

Run 8: Report of PCC-Expr — Data Link

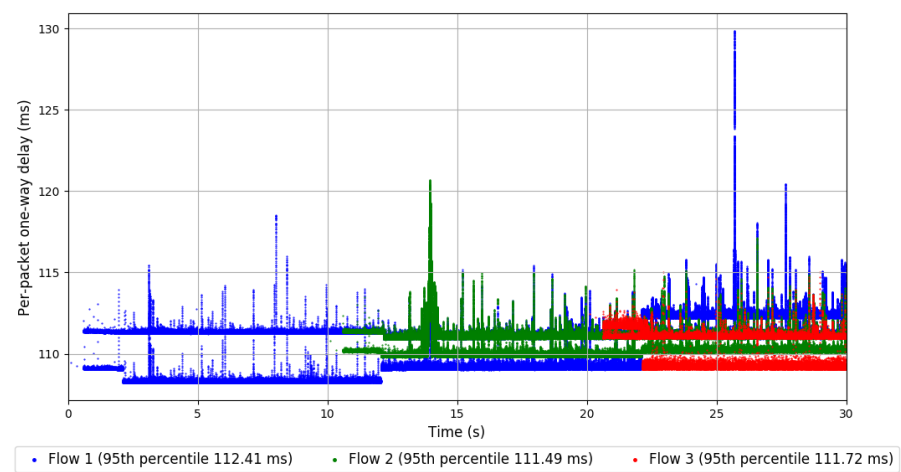
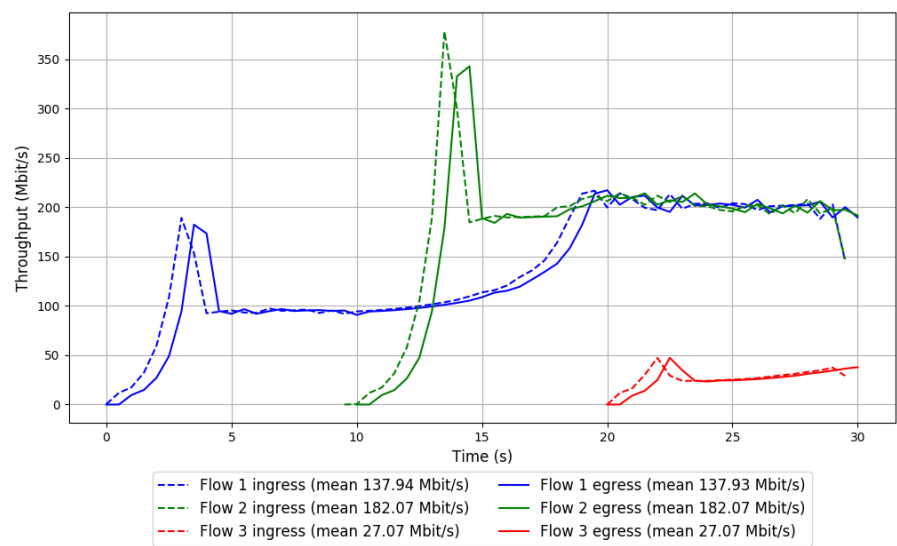


Run 9: Statistics of PCC-Expr

Start at: 2018-06-05 11:24:23  
End at: 2018-06-05 11:24:53  
Local clock offset: -0.14 ms  
Remote clock offset: -0.515 ms

# Below is generated by plot.py at 2018-06-05 13:36:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 267.98 Mbit/s  
95th percentile per-packet one-way delay: 112.369 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 137.93 Mbit/s  
95th percentile per-packet one-way delay: 112.414 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 182.07 Mbit/s  
95th percentile per-packet one-way delay: 111.494 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 27.07 Mbit/s  
95th percentile per-packet one-way delay: 111.716 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link

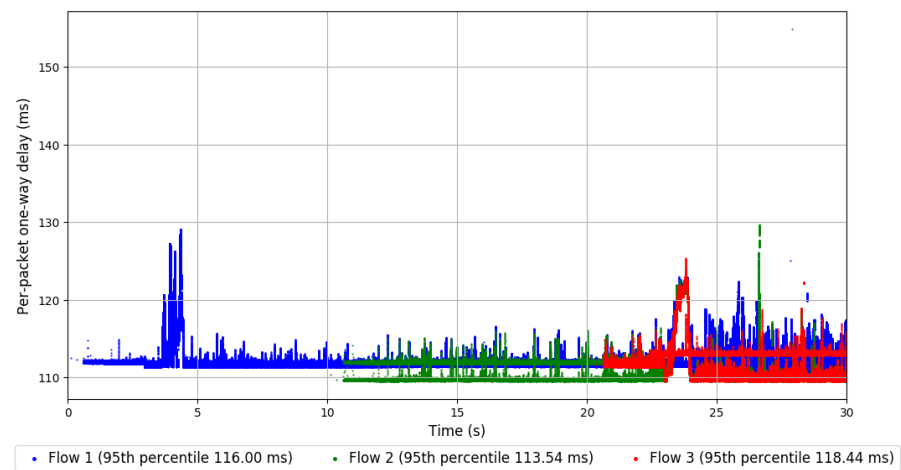
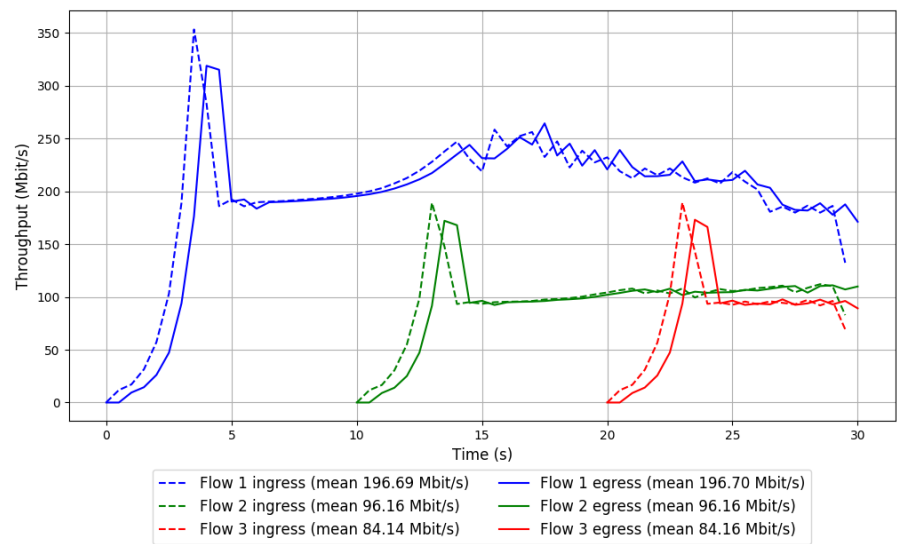


Run 10: Statistics of PCC-Expr

Start at: 2018-06-05 11:48:02  
End at: 2018-06-05 11:48:32  
Local clock offset: -0.16 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-05 13:37:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 288.36 Mbit/s  
95th percentile per-packet one-way delay: 115.776 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 196.70 Mbit/s  
95th percentile per-packet one-way delay: 116.002 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 96.16 Mbit/s  
95th percentile per-packet one-way delay: 113.542 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 84.16 Mbit/s  
95th percentile per-packet one-way delay: 118.440 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link



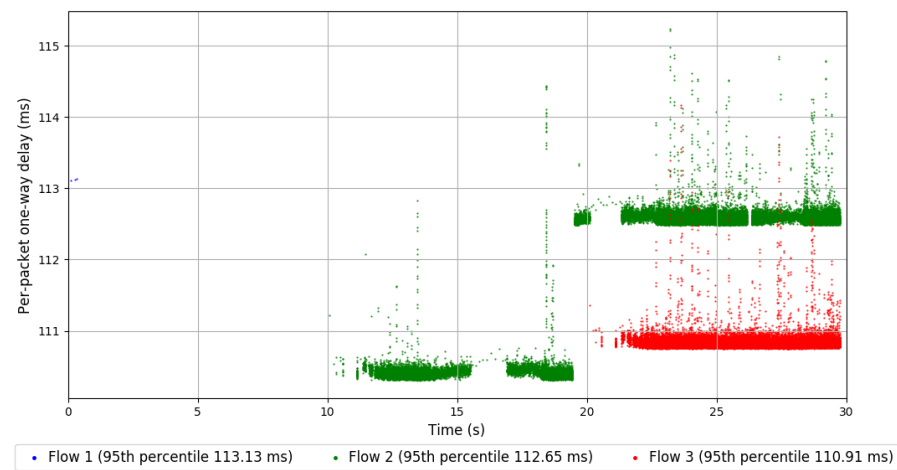
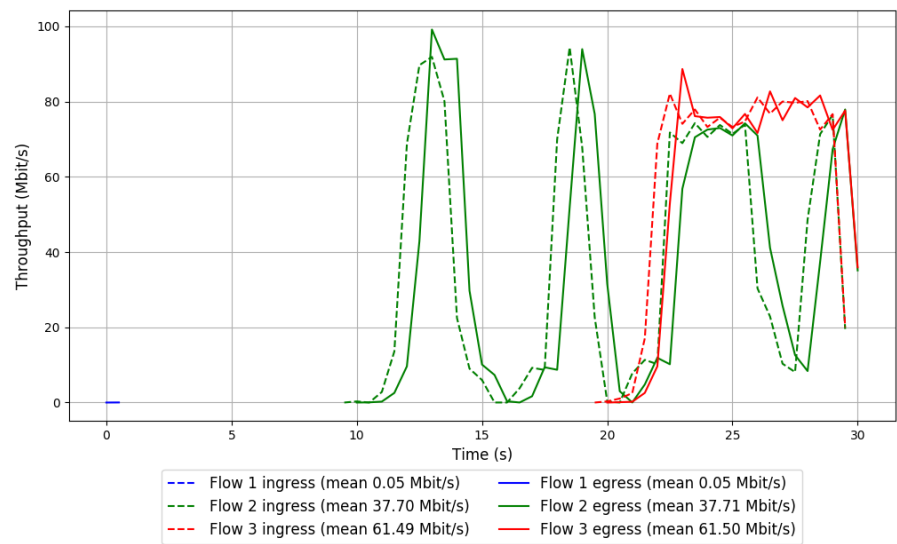
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-05 08:11:25  
End at: 2018-06-05 08:11:55  
Local clock offset: -0.209 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-05 13:37:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.04 Mbit/s  
95th percentile per-packet one-way delay: 112.624 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 113.134 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 37.71 Mbit/s  
95th percentile per-packet one-way delay: 112.652 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 61.50 Mbit/s  
95th percentile per-packet one-way delay: 110.910 ms  
Loss rate: 0.00%



Run 1: Report of QUIC Cubic — Data Link

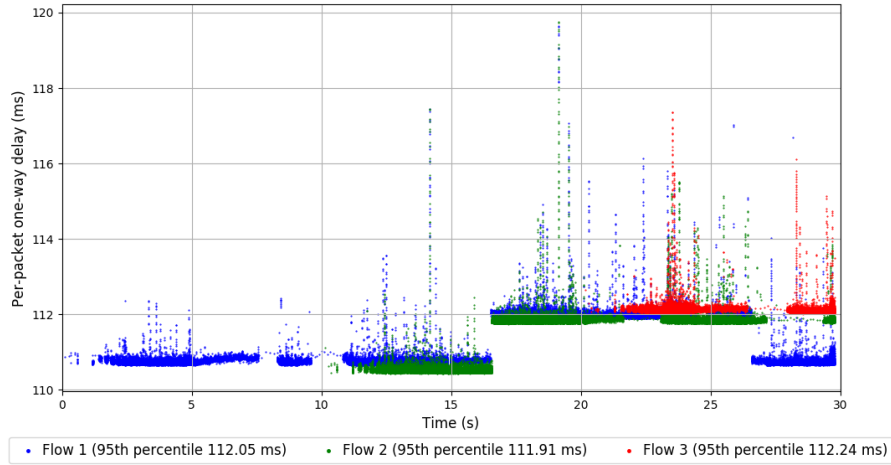
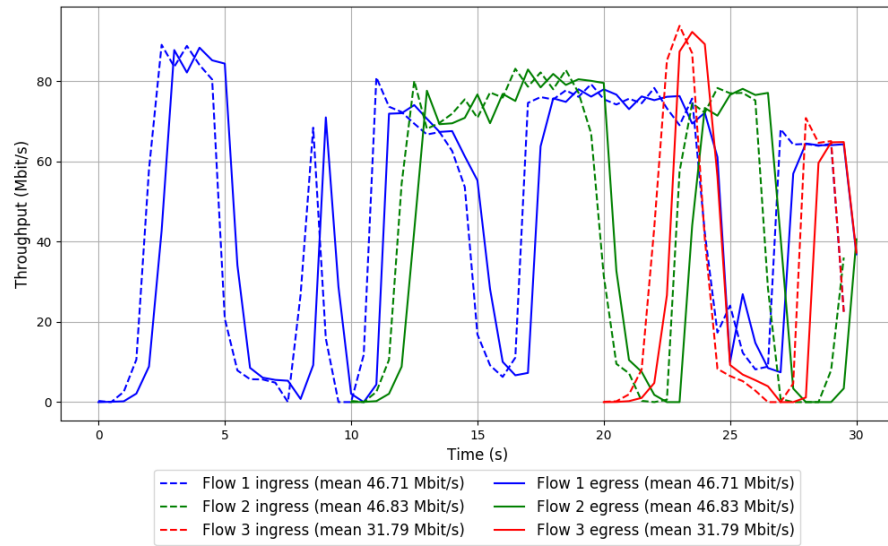


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-05 08:34:58  
End at: 2018-06-05 08:35:28  
Local clock offset: 0.029 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-05 13:37:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.01 Mbit/s  
95th percentile per-packet one-way delay: 112.132 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 46.71 Mbit/s  
95th percentile per-packet one-way delay: 112.054 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 46.83 Mbit/s  
95th percentile per-packet one-way delay: 111.906 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.79 Mbit/s  
95th percentile per-packet one-way delay: 112.239 ms  
Loss rate: 0.00%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-05 08:58:46

End at: 2018-06-05 08:59:16

Local clock offset: -0.604 ms

Remote clock offset: 0.382 ms

# Below is generated by plot.py at 2018-06-05 13:37:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 108.52 Mbit/s

95th percentile per-packet one-way delay: 115.103 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 59.12 Mbit/s

95th percentile per-packet one-way delay: 113.692 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.02 Mbit/s

95th percentile per-packet one-way delay: 115.169 ms

Loss rate: 0.00%

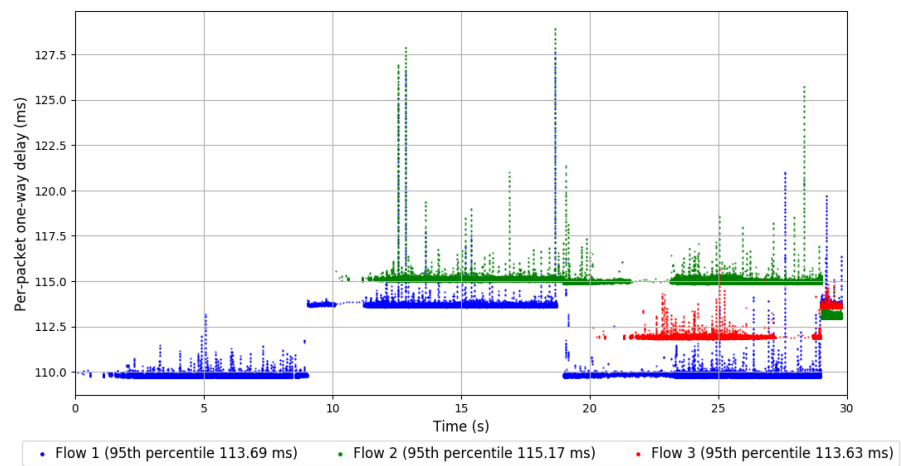
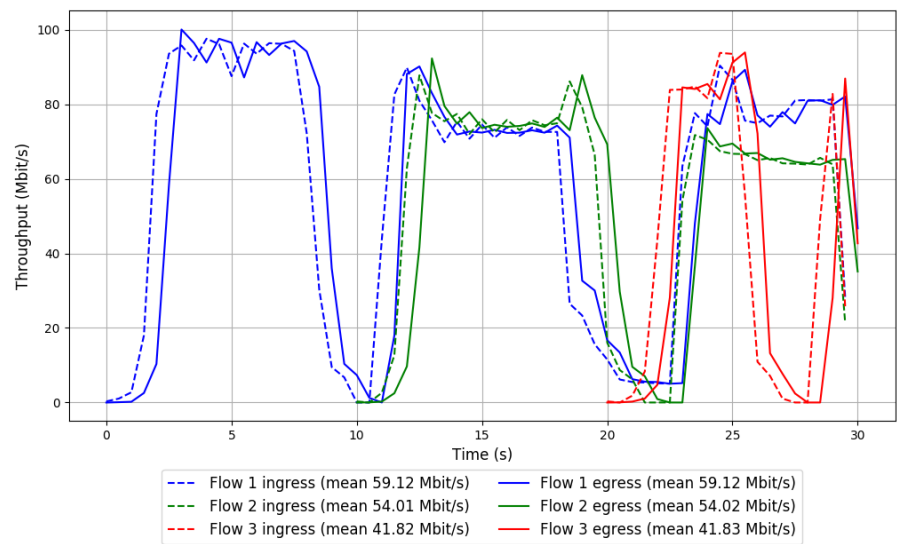
-- Flow 3:

Average throughput: 41.83 Mbit/s

95th percentile per-packet one-way delay: 113.632 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

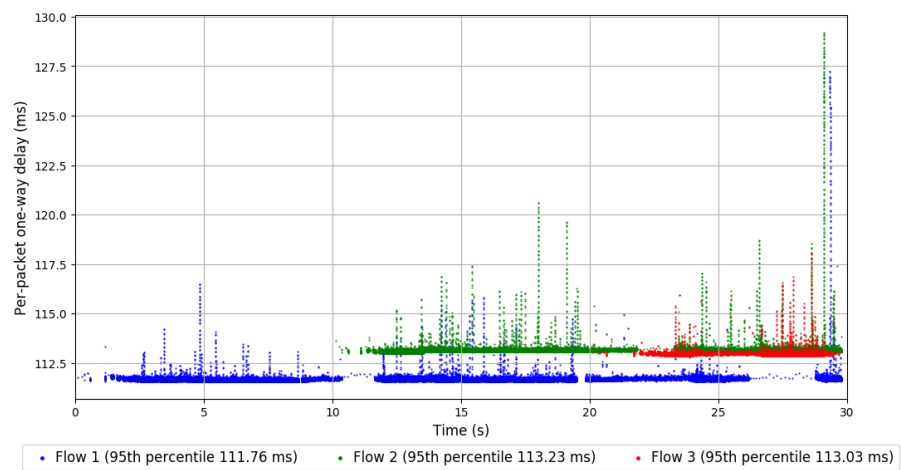
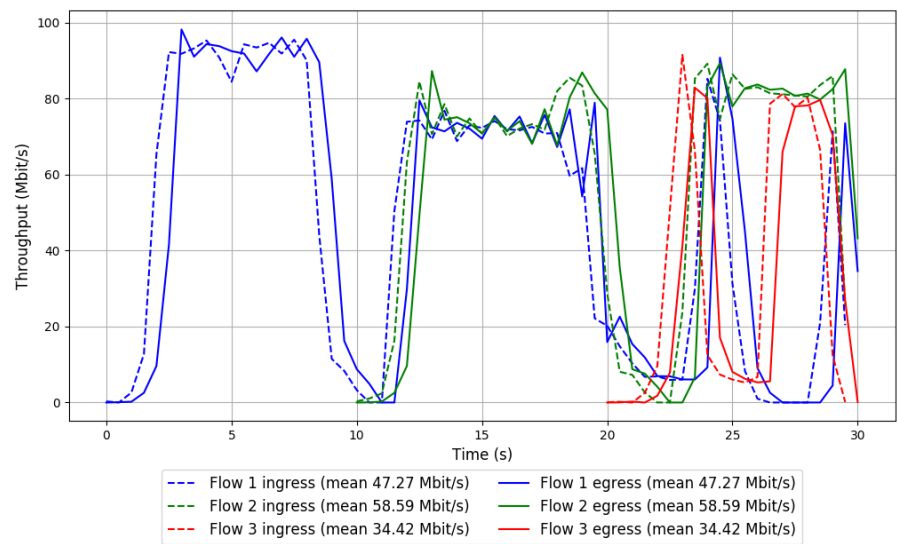


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-05 09:22:41  
End at: 2018-06-05 09:23:11  
Local clock offset: -0.447 ms  
Remote clock offset: -0.035 ms

# Below is generated by plot.py at 2018-06-05 13:37:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.12 Mbit/s  
95th percentile per-packet one-way delay: 113.187 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 47.27 Mbit/s  
95th percentile per-packet one-way delay: 111.763 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 58.59 Mbit/s  
95th percentile per-packet one-way delay: 113.227 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 34.42 Mbit/s  
95th percentile per-packet one-way delay: 113.033 ms  
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



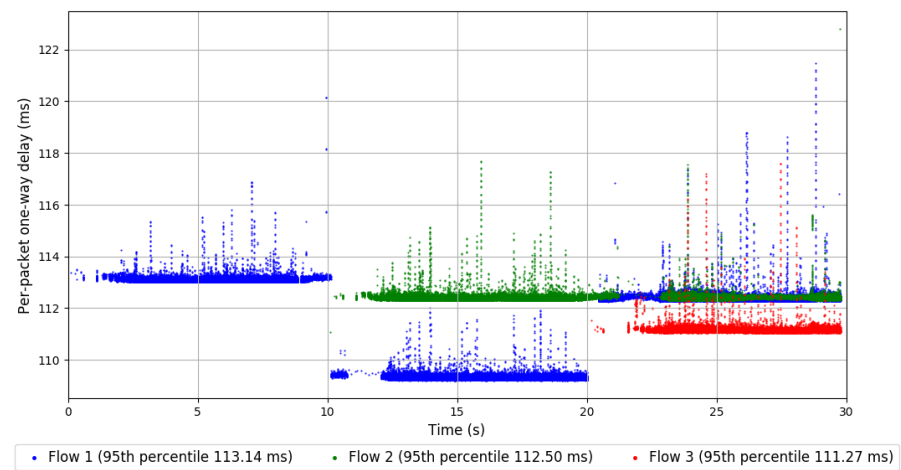
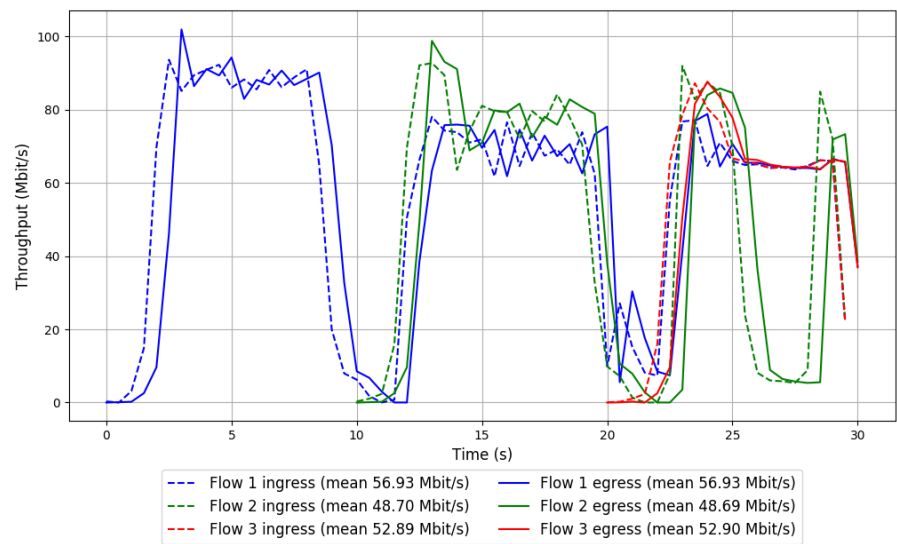
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-05 09:46:24  
End at: 2018-06-05 09:46:54  
Local clock offset: -0.242 ms  
Remote clock offset: -0.354 ms

# Below is generated by plot.py at 2018-06-05 13:37:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 106.35 Mbit/s  
95th percentile per-packet one-way delay: 113.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.93 Mbit/s  
95th percentile per-packet one-way delay: 113.142 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 48.69 Mbit/s  
95th percentile per-packet one-way delay: 112.498 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 52.90 Mbit/s  
95th percentile per-packet one-way delay: 111.267 ms  
Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link

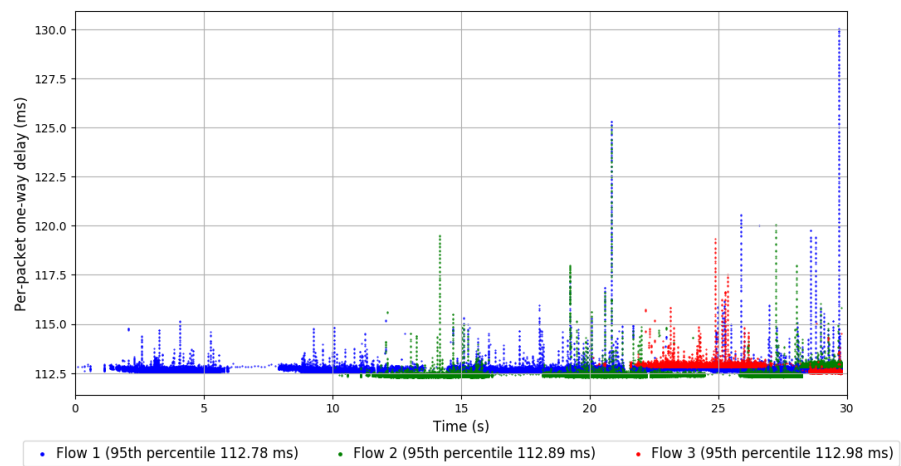
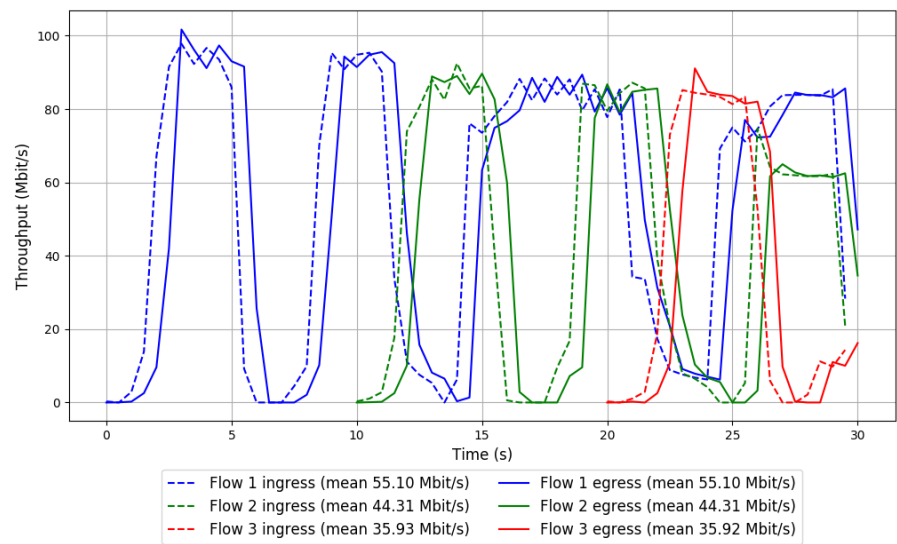


Run 6: Statistics of QUIC Cubic

Start at: 2018-06-05 10:09:56  
End at: 2018-06-05 10:10:26  
Local clock offset: -0.225 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2018-06-05 13:37:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.15 Mbit/s  
95th percentile per-packet one-way delay: 112.907 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 55.10 Mbit/s  
95th percentile per-packet one-way delay: 112.778 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 44.31 Mbit/s  
95th percentile per-packet one-way delay: 112.894 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 35.92 Mbit/s  
95th percentile per-packet one-way delay: 112.980 ms  
Loss rate: 0.03%

Run 6: Report of QUIC Cubic — Data Link

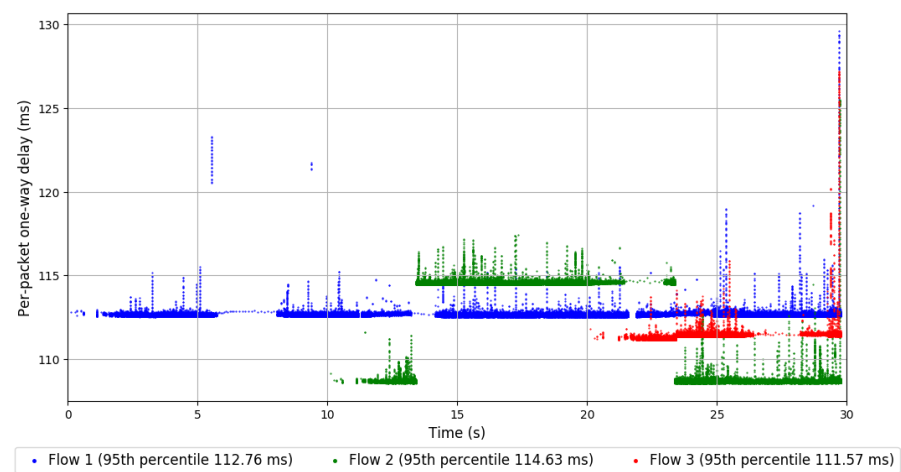
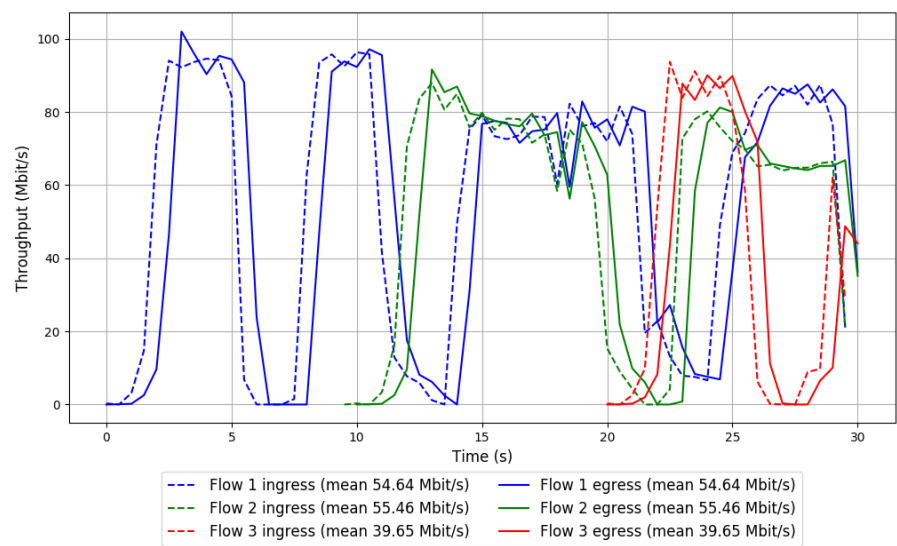


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-05 10:33:41  
End at: 2018-06-05 10:34:11  
Local clock offset: -0.24 ms  
Remote clock offset: -0.441 ms

# Below is generated by plot.py at 2018-06-05 13:37:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 104.30 Mbit/s  
95th percentile per-packet one-way delay: 114.578 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 54.64 Mbit/s  
95th percentile per-packet one-way delay: 112.762 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 55.46 Mbit/s  
95th percentile per-packet one-way delay: 114.629 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 39.65 Mbit/s  
95th percentile per-packet one-way delay: 111.574 ms  
Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-05 10:57:38

End at: 2018-06-05 10:58:08

Local clock offset: -0.2 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-06-05 13:37:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.58 Mbit/s

95th percentile per-packet one-way delay: 114.528 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.47 Mbit/s

95th percentile per-packet one-way delay: 112.465 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 58.05 Mbit/s

95th percentile per-packet one-way delay: 114.579 ms

Loss rate: 0.00%

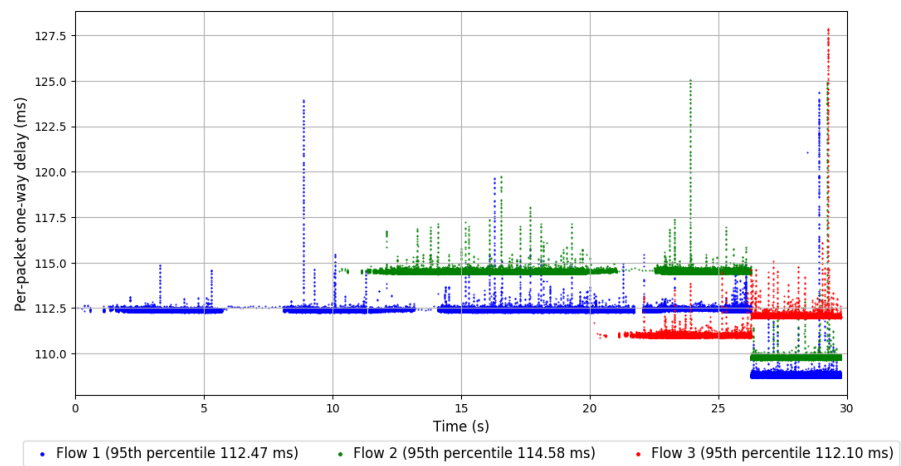
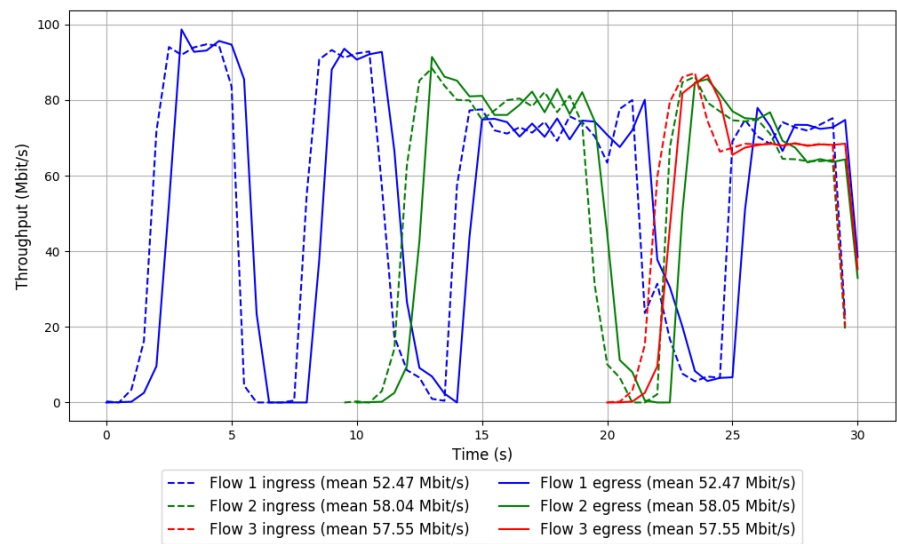
-- Flow 3:

Average throughput: 57.55 Mbit/s

95th percentile per-packet one-way delay: 112.103 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



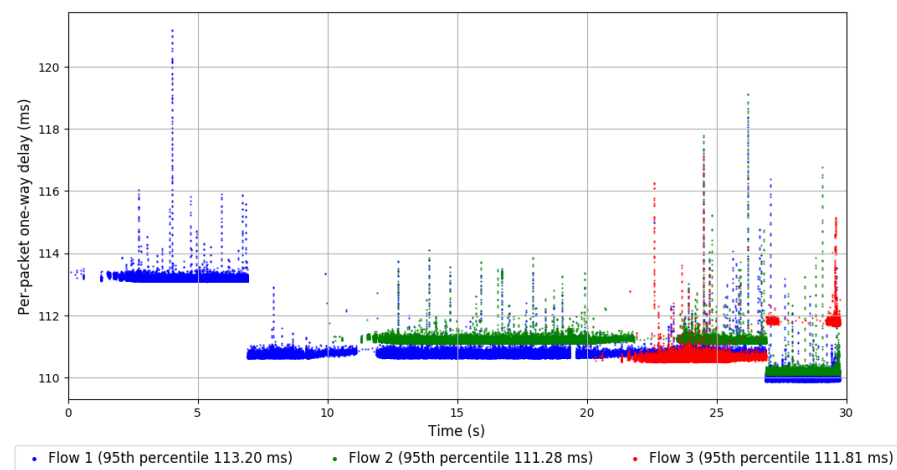
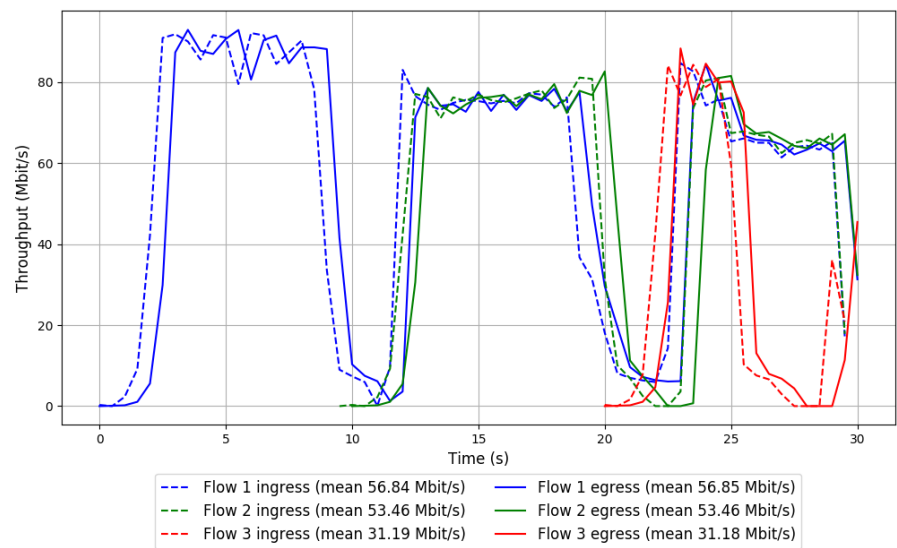
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-05 11:21:28  
End at: 2018-06-05 11:21:58  
Local clock offset: -0.567 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-06-05 13:37:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 102.45 Mbit/s  
95th percentile per-packet one-way delay: 113.177 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 56.85 Mbit/s  
95th percentile per-packet one-way delay: 113.203 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 53.46 Mbit/s  
95th percentile per-packet one-way delay: 111.284 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 31.18 Mbit/s  
95th percentile per-packet one-way delay: 111.808 ms  
Loss rate: 0.02%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-05 11:45:08

End at: 2018-06-05 11:45:38

Local clock offset: -0.532 ms

Remote clock offset: 0.328 ms

# Below is generated by plot.py at 2018-06-05 13:37:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 105.41 Mbit/s

95th percentile per-packet one-way delay: 112.908 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 57.68 Mbit/s

95th percentile per-packet one-way delay: 112.485 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.33 Mbit/s

95th percentile per-packet one-way delay: 112.986 ms

Loss rate: 0.00%

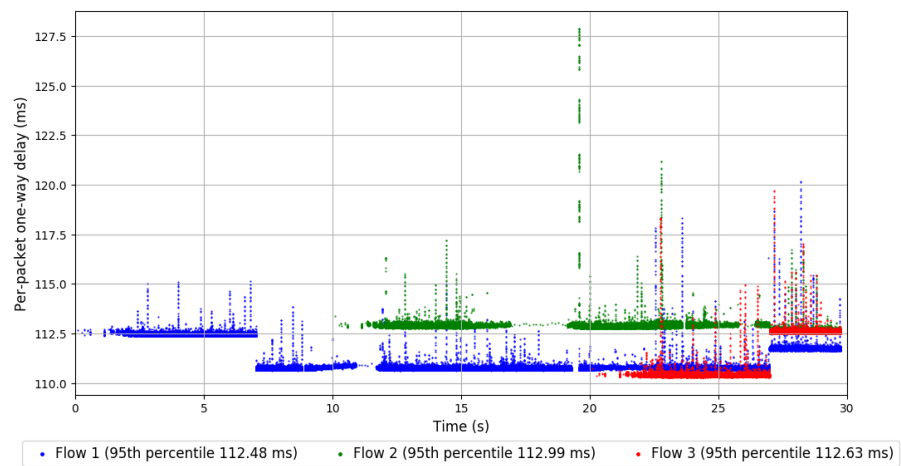
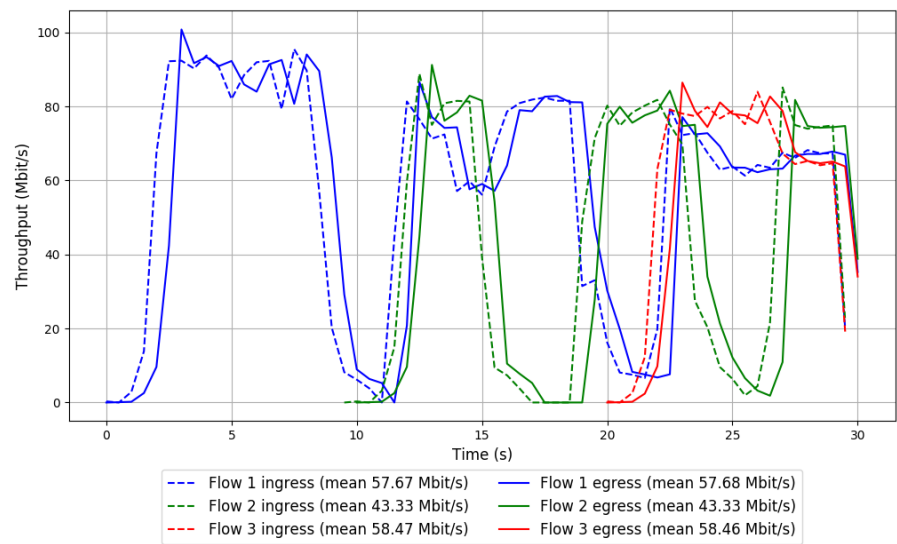
-- Flow 3:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 112.629 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

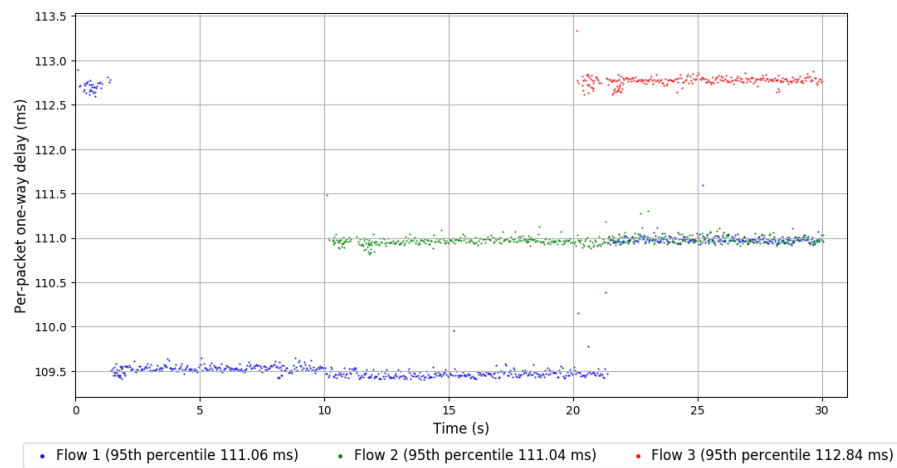
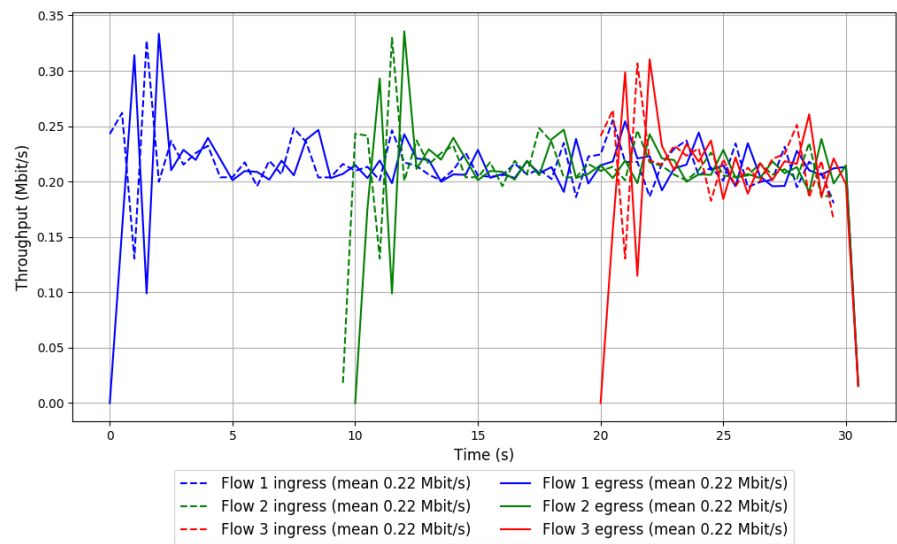


```
Run 1: Statistics of SReAM

Start at: 2018-06-05 08:25:03
End at: 2018-06-05 08:25:33
Local clock offset: -0.165 ms
Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2018-06-05 13:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 112.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.061 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.042 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.836 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

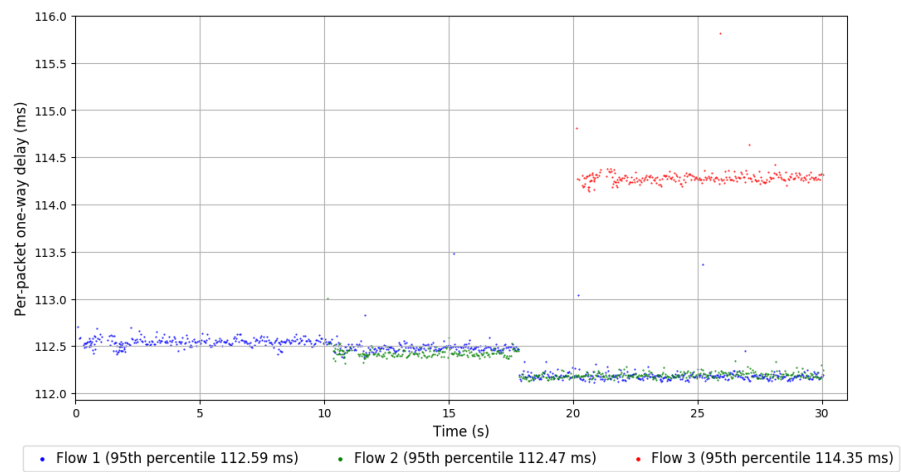
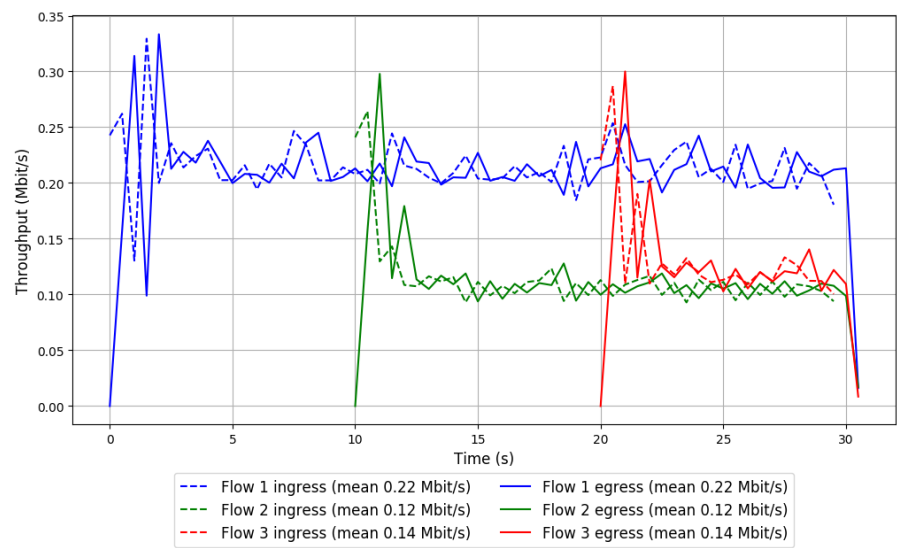


Run 2: Statistics of SCReAM

Start at: 2018-06-05 08:48:27  
End at: 2018-06-05 08:48:57  
Local clock offset: -0.215 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 114.297 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.595 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 112.470 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 114.351 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



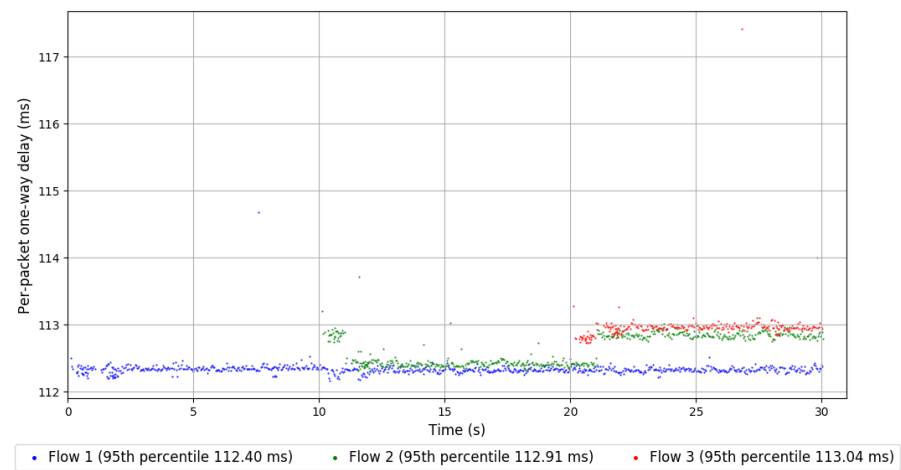
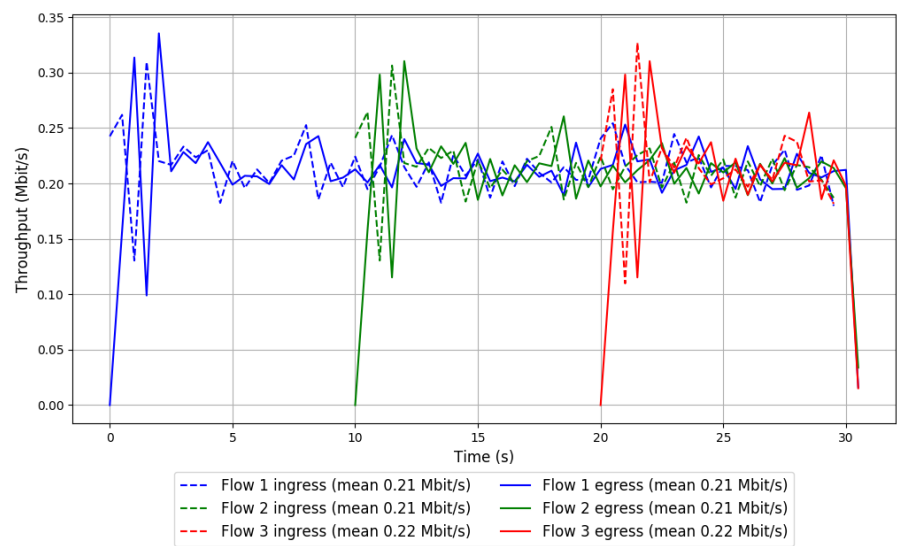
Run 3: Statistics of SCReAM

Start at: 2018-06-05 09:12:24  
End at: 2018-06-05 09:12:54  
Local clock offset: -0.176 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 112.983 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 112.400 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 112.911 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 113.042 ms  
Loss rate: 0.00%



Run 3: Report of SCSReAM — Data Link

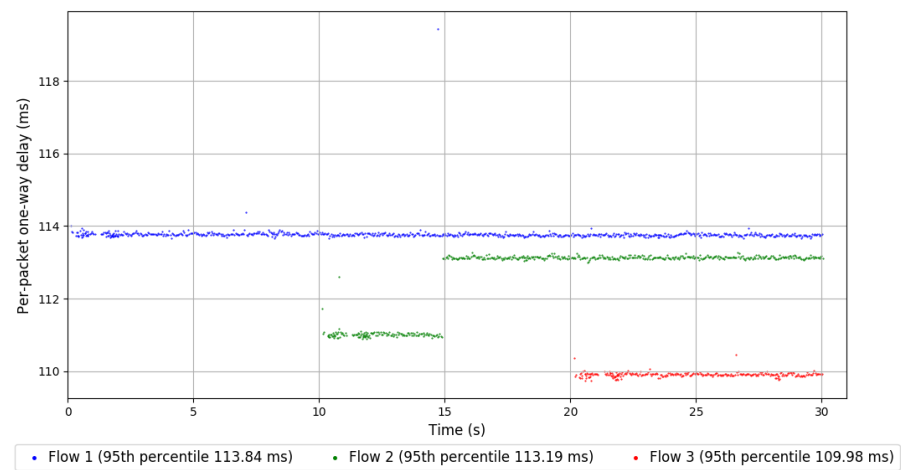
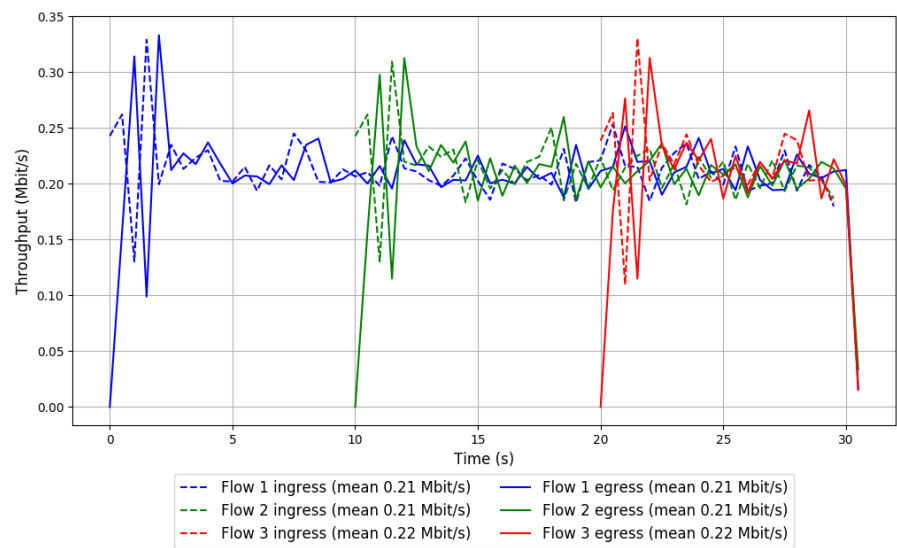


Run 4: Statistics of SReAM

Start at: 2018-06-05 09:36:20  
End at: 2018-06-05 09:36:50  
Local clock offset: -0.355 ms  
Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 113.810 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 113.838 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 113.188 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 109.978 ms  
Loss rate: 0.00%

Run 4: Report of SCSReAM — Data Link

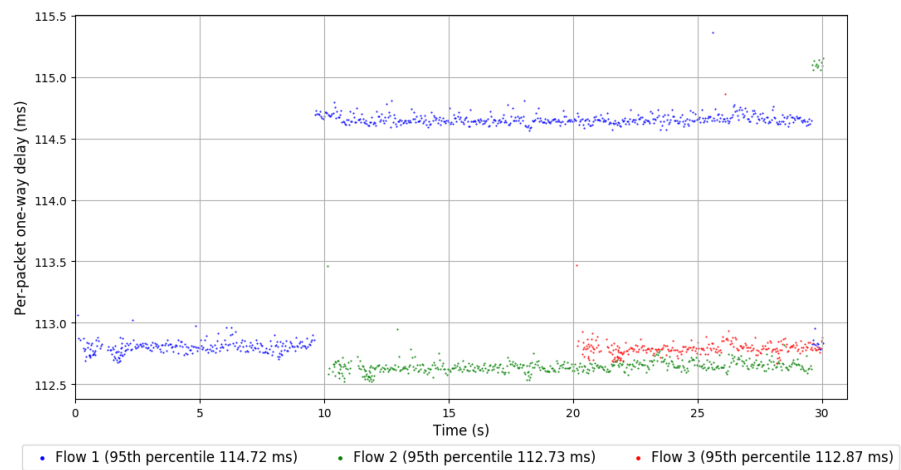
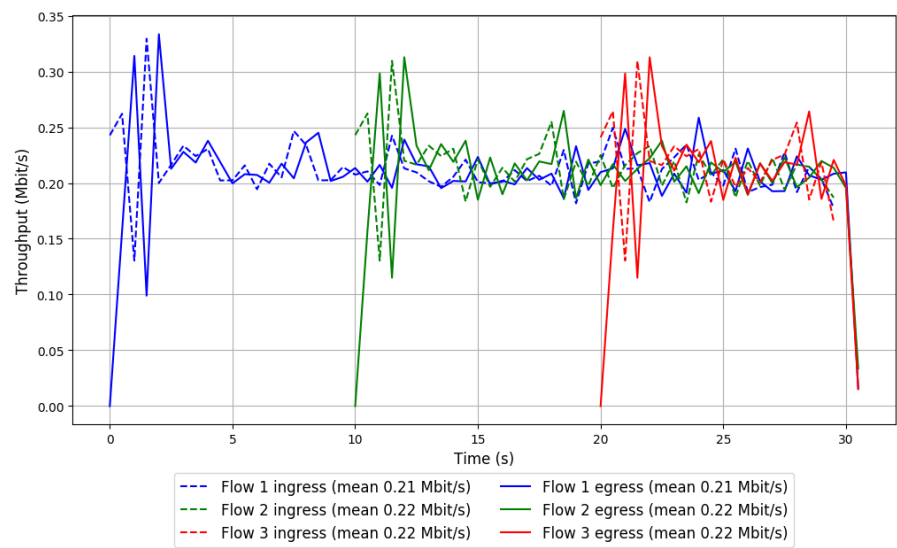


Run 5: Statistics of SReAM

Start at: 2018-06-05 09:59:55  
End at: 2018-06-05 10:00:25  
Local clock offset: -0.384 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 114.698 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 114.719 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.734 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.872 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

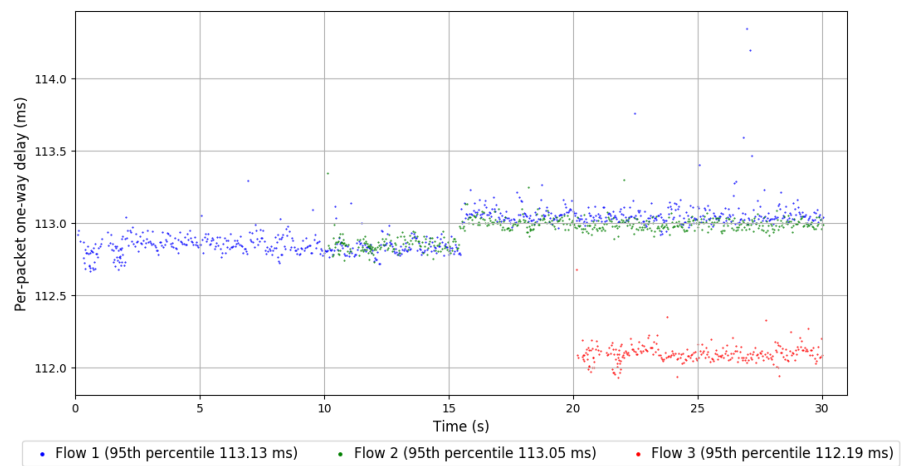
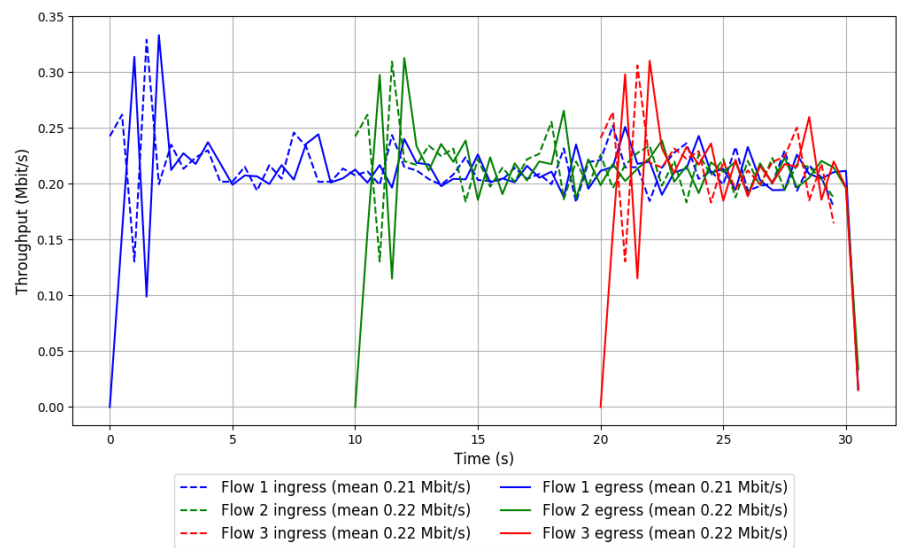


Run 6: Statistics of SReAM

Start at: 2018-06-05 10:23:39  
End at: 2018-06-05 10:24:09  
Local clock offset: -0.134 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 113.095 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 113.126 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 113.048 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.189 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



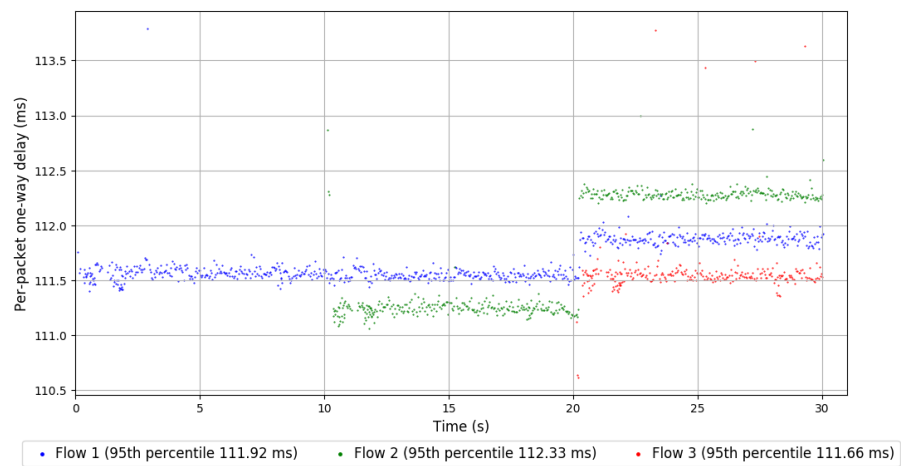
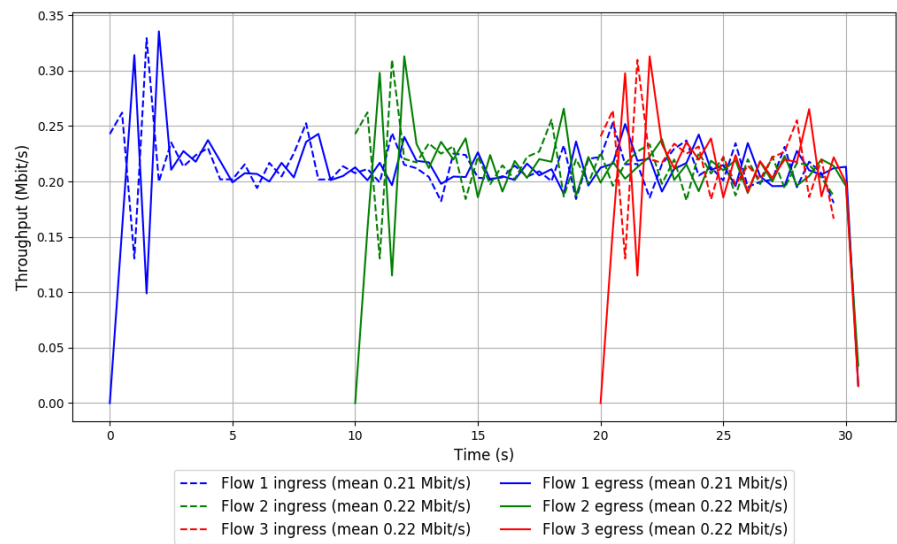
Run 7: Statistics of SReAM

Start at: 2018-06-05 10:47:25  
End at: 2018-06-05 10:47:55  
Local clock offset: -0.175 ms  
Remote clock offset: -0.46 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 112.299 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 111.925 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.327 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.664 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

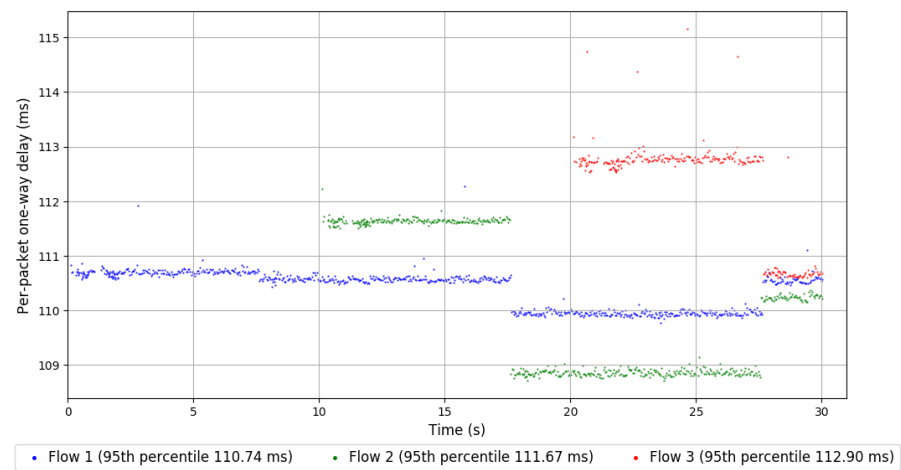
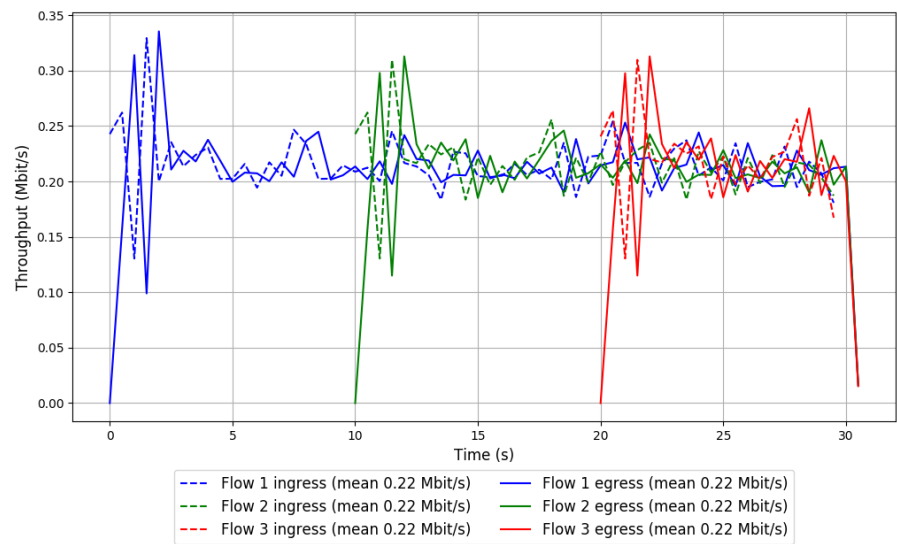


Run 8: Statistics of SReAM

Start at: 2018-06-05 11:11:17  
End at: 2018-06-05 11:11:47  
Local clock offset: -0.372 ms  
Remote clock offset: -0.432 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 112.774 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 110.741 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.675 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.902 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

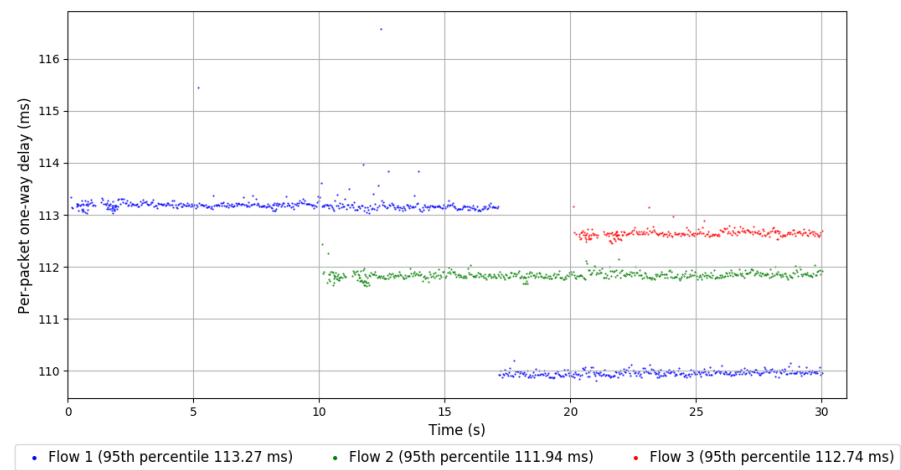
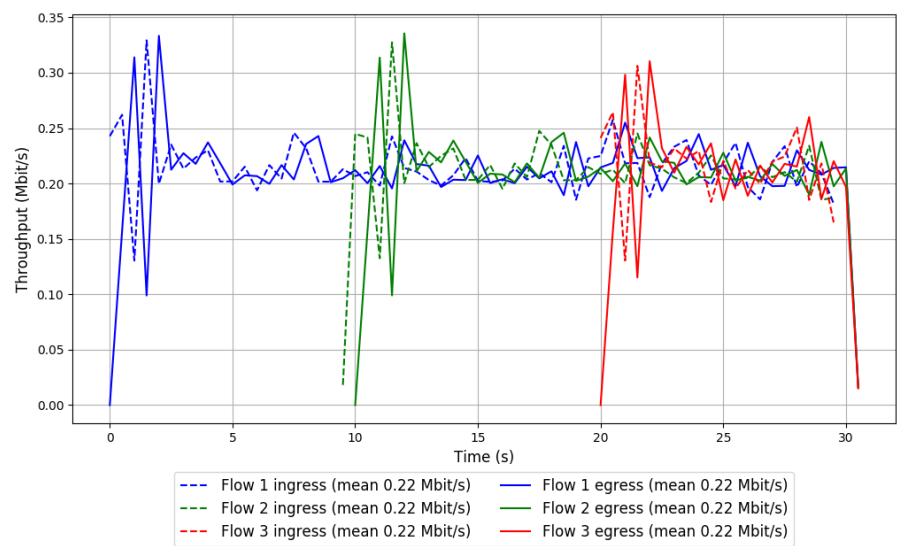


Run 9: Statistics of SReAM

Start at: 2018-06-05 11:35:08  
End at: 2018-06-05 11:35:38  
Local clock offset: -0.324 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 113.219 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 113.266 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.936 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.744 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-05 11:58:37

End at: 2018-06-05 11:59:07

Local clock offset: 0.222 ms

Remote clock offset: 0.302 ms

# Below is generated by plot.py at 2018-06-05 13:37:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 112.079 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.199 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.084 ms

Loss rate: 0.00%

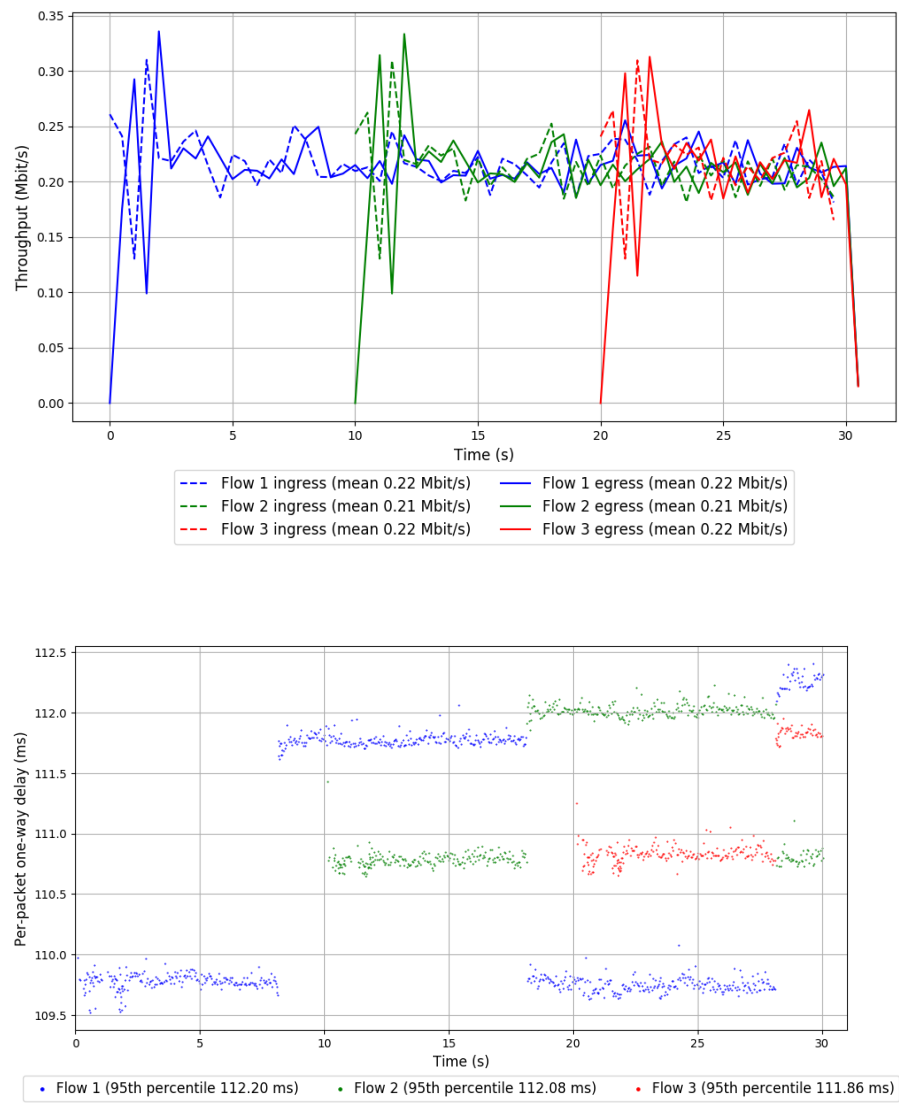
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.862 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



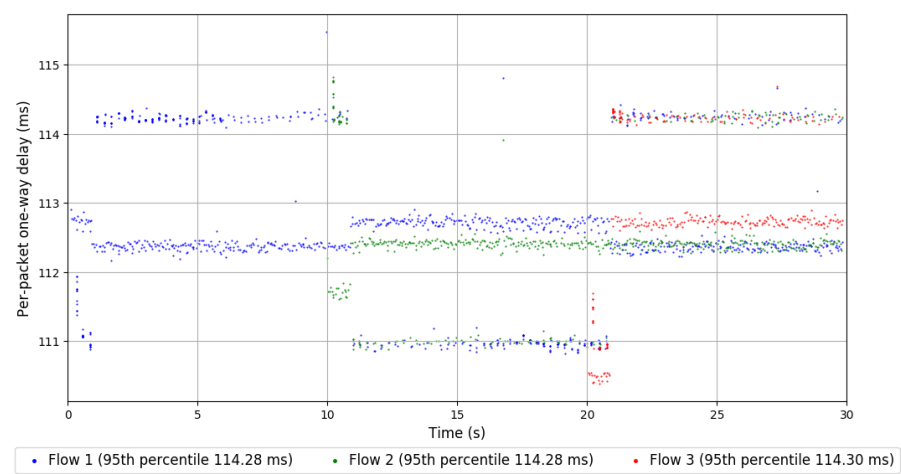
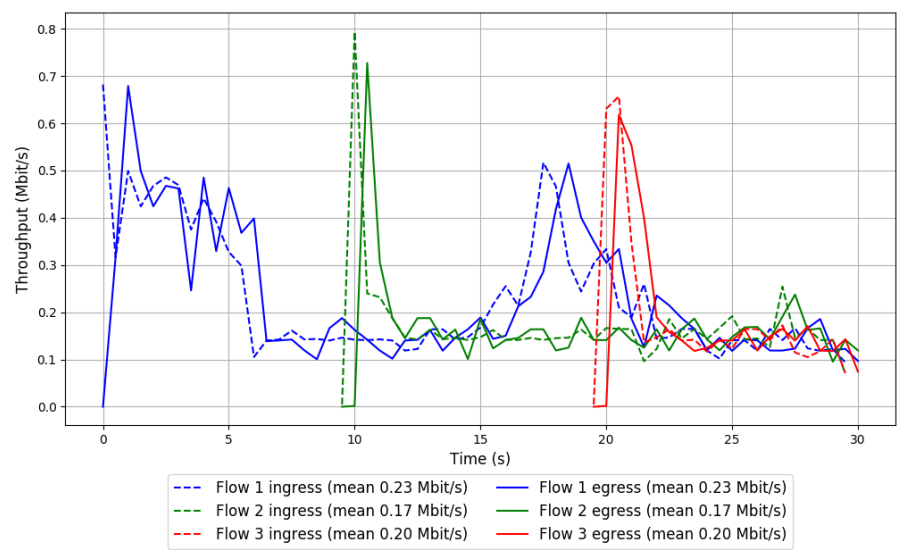
Run 1: Statistics of Sprout

Start at: 2018-06-05 08:28:04  
End at: 2018-06-05 08:28:34  
Local clock offset: -0.151 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 114.284 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 114.280 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 114.277 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 114.303 ms  
Loss rate: 0.00%



Run 1: Report of Sprout — Data Link

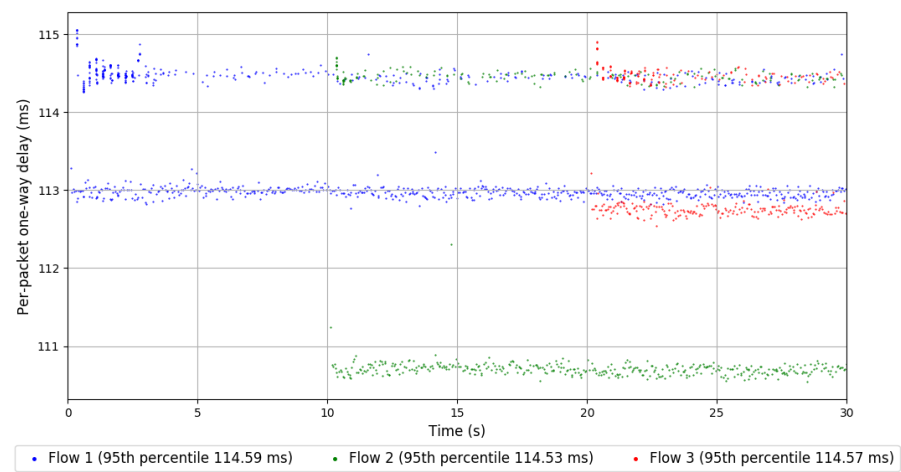
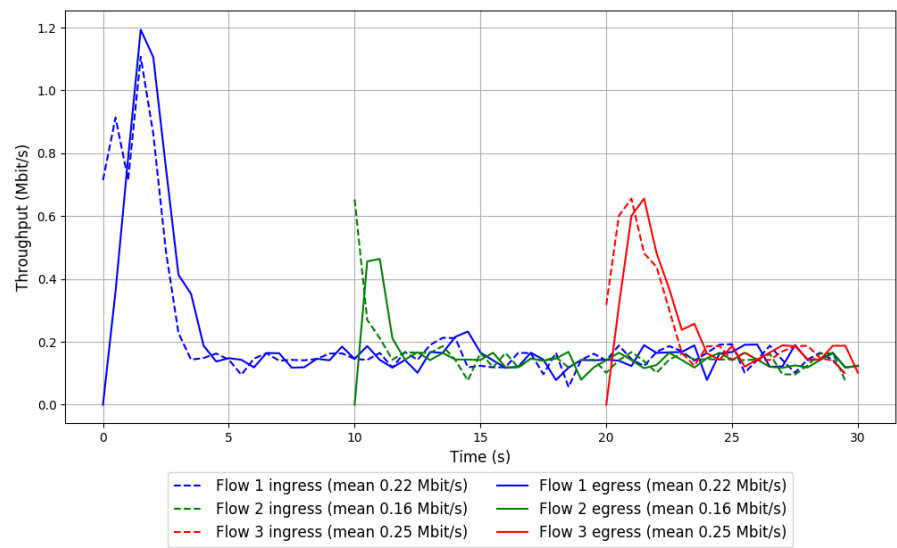


Run 2: Statistics of Sprout

Start at: 2018-06-05 08:51:30  
End at: 2018-06-05 08:52:00  
Local clock offset: -0.308 ms  
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.40 Mbit/s  
95th percentile per-packet one-way delay: 114.569 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 114.593 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 114.525 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.25 Mbit/s  
95th percentile per-packet one-way delay: 114.571 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

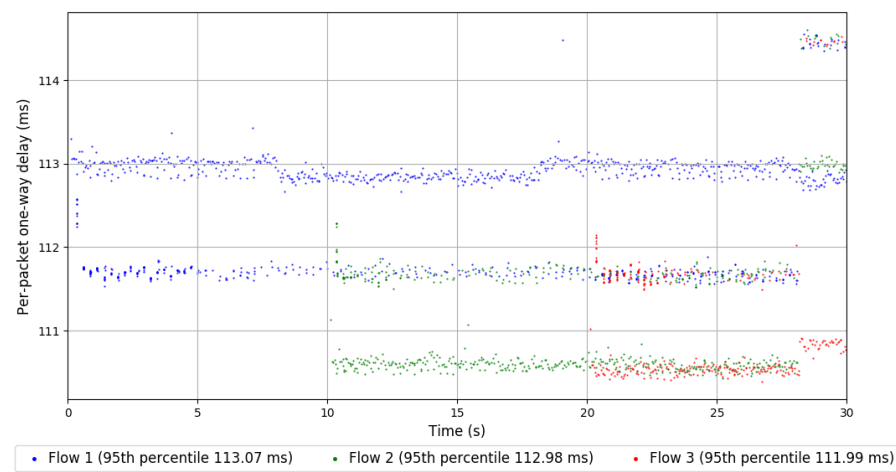
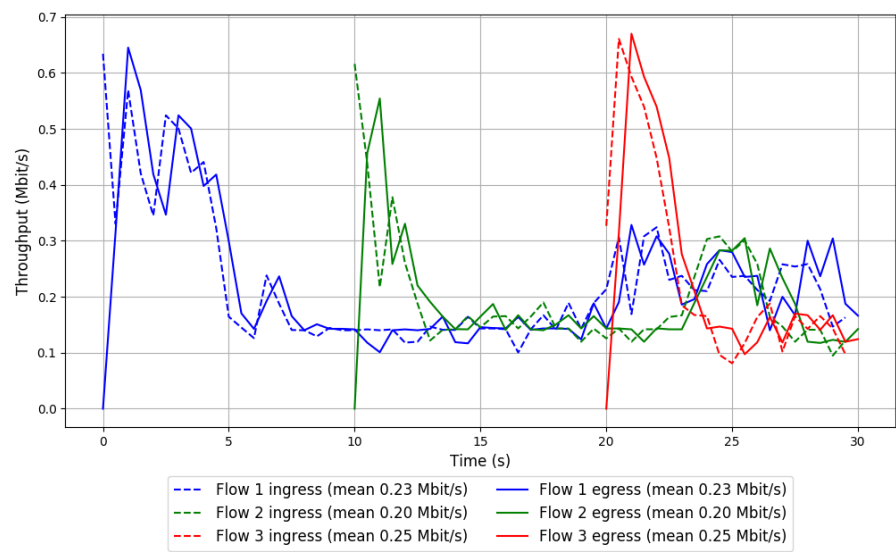


### Run 3: Statistics of Sprout

Start at: 2018-06-05 09:15:27  
End at: 2018-06-05 09:15:57  
Local clock offset: -0.256 ms  
Remote clock offset: -0.016 ms

```
# Below is generated by plot.py at 2018-06-05 13:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 113.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 113.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 112.976 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 111.991 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

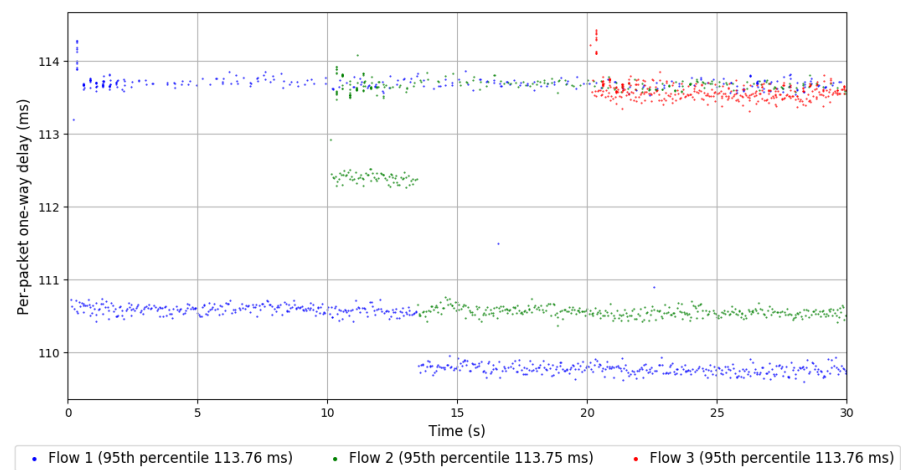
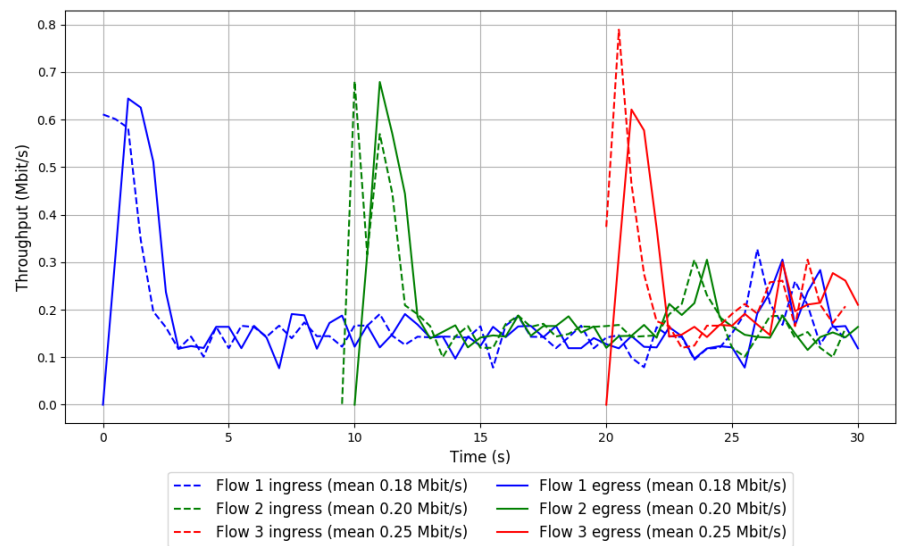


#### Run 4: Statistics of Sprout

Start at: 2018-06-05 09:39:21  
End at: 2018-06-05 09:39:51  
Local clock offset: -0.614 ms  
Remote clock offset: 0.385 ms

```
# Below is generated by plot.py at 2018-06-05 13:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 113.762 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 113.762 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 113.748 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 113.756 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



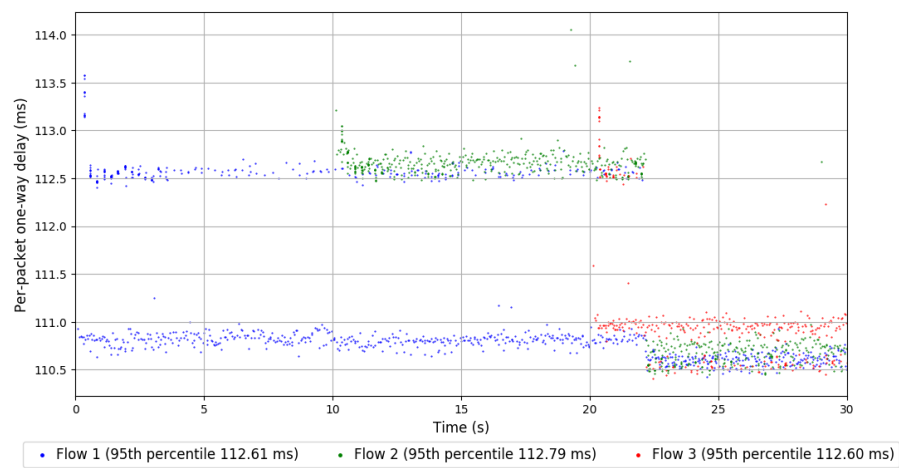
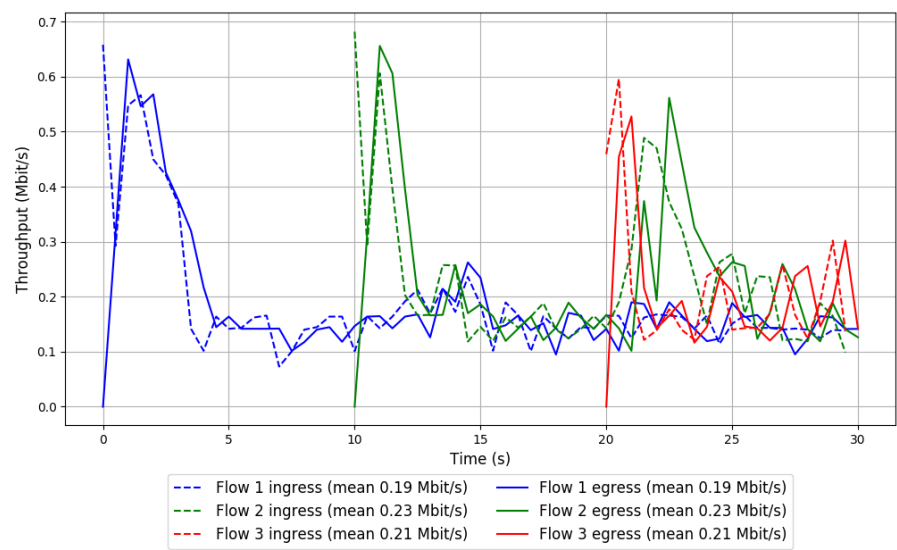
Run 5: Statistics of Sprout

Start at: 2018-06-05 10:02:53  
End at: 2018-06-05 10:03:23  
Local clock offset: -0.065 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 112.742 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 112.612 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.23 Mbit/s  
95th percentile per-packet one-way delay: 112.792 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 112.600 ms  
Loss rate: 0.00%



Run 5: Report of Sprout — Data Link

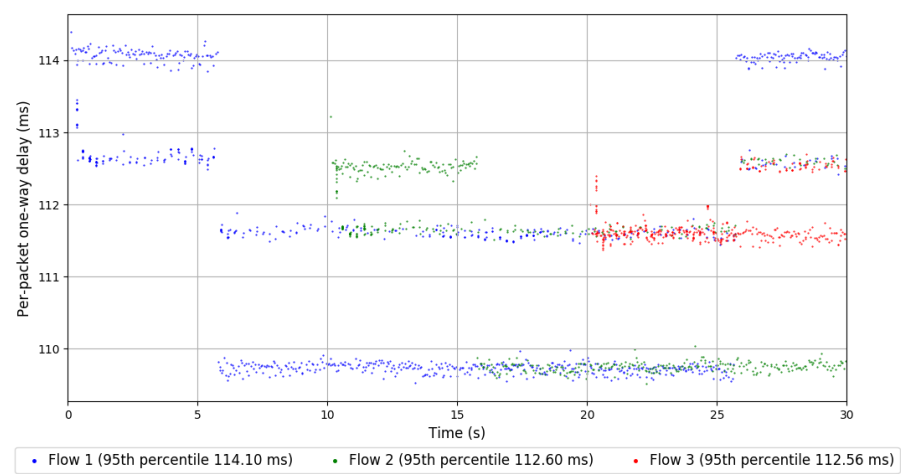
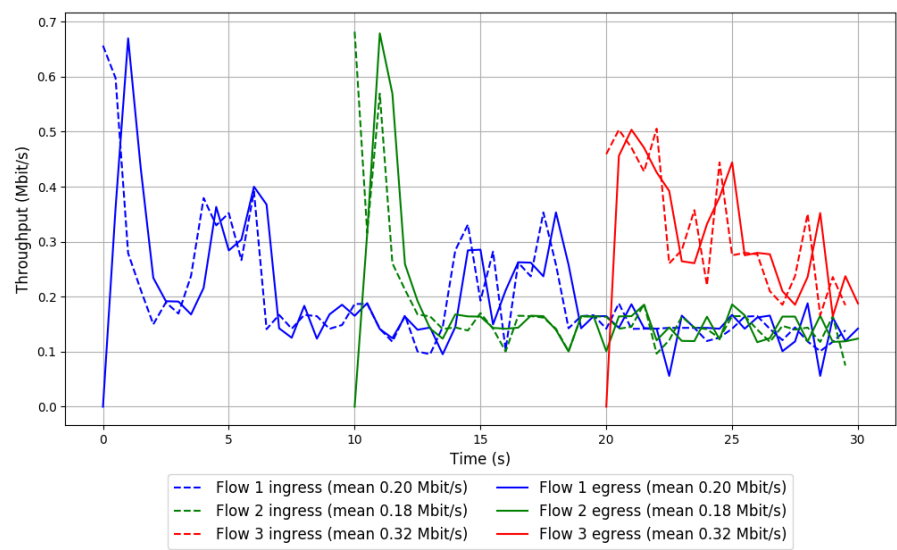


Run 6: Statistics of Sprout

Start at: 2018-06-05 10:26:39  
End at: 2018-06-05 10:27:09  
Local clock offset: -0.047 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 114.068 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 114.104 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 112.597 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 112.563 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

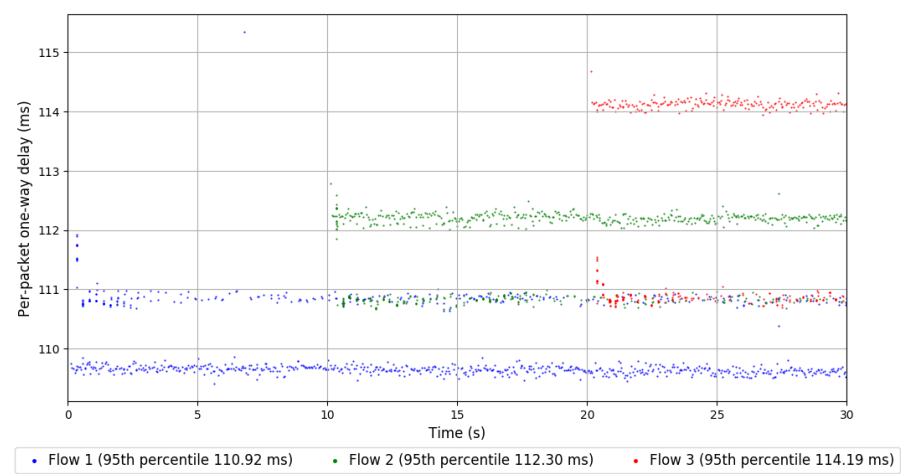
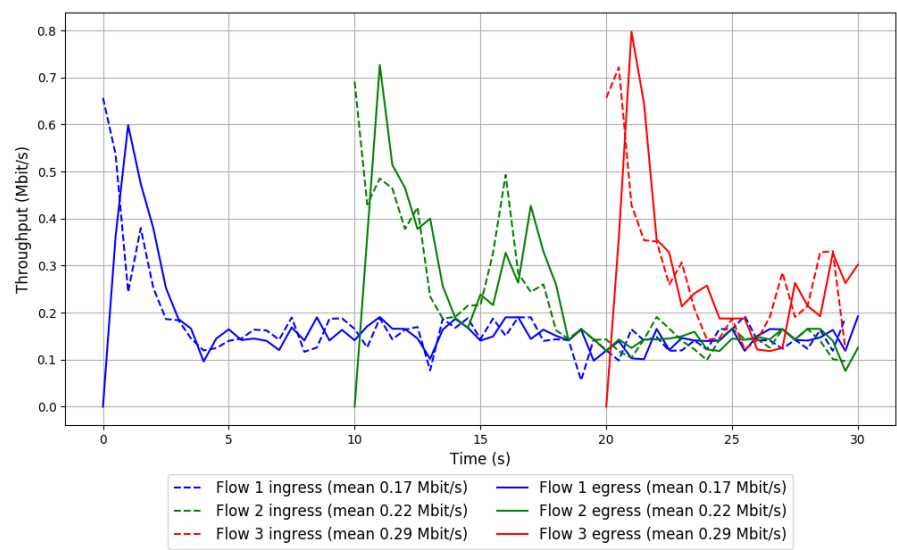


Run 7: Statistics of Sprout

Start at: 2018-06-05 10:50:27  
End at: 2018-06-05 10:50:57  
Local clock offset: -0.438 ms  
Remote clock offset: -0.444 ms

# Below is generated by plot.py at 2018-06-05 13:37:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 114.125 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 110.919 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.298 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 114.193 ms  
Loss rate: 0.03%

Run 7: Report of Sprout — Data Link

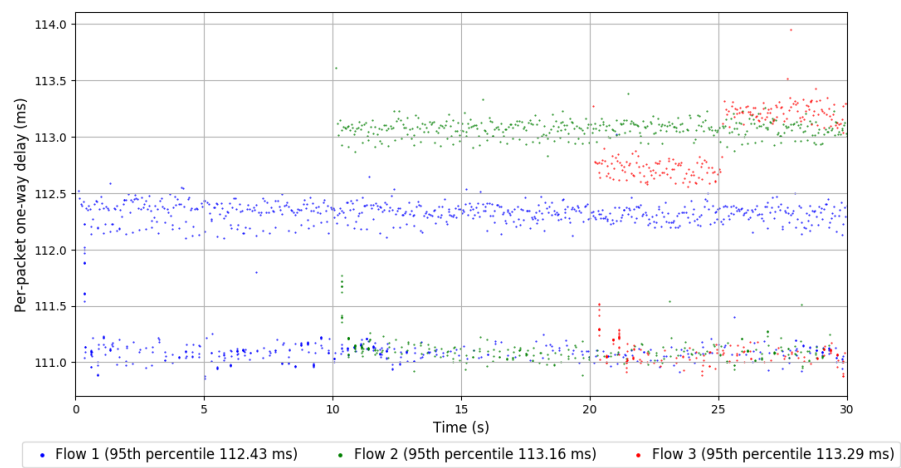
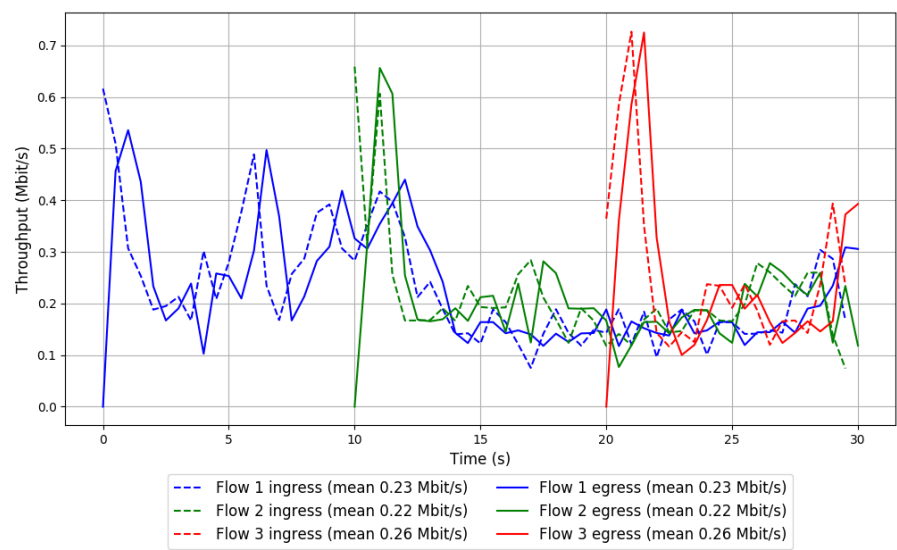


Run 8: Statistics of Sprout

Start at: 2018-06-05 11:14:20  
End at: 2018-06-05 11:14:50  
Local clock offset: -0.262 ms  
Remote clock offset: -0.068 ms

```
# Below is generated by plot.py at 2018-06-05 13:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 113.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 112.434 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.162 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 113.291 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



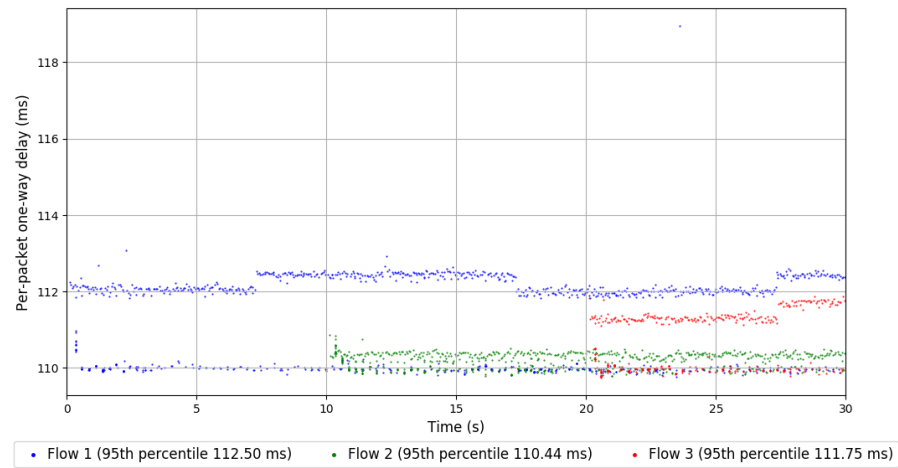
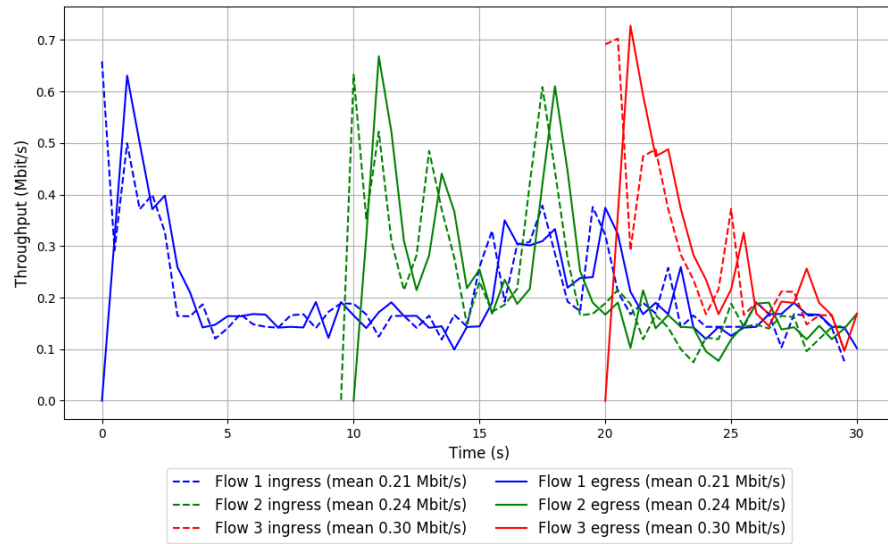
Run 9: Statistics of Sprout

Start at: 2018-06-05 11:38:08  
End at: 2018-06-05 11:38:38  
Local clock offset: -0.327 ms  
Remote clock offset: -0.09 ms

```
# Below is generated by plot.py at 2018-06-05 13:37:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 112.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.498 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 110.435 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 111.745 ms
Loss rate: 0.00%
```



# Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-05 12:01:45

End at: 2018-06-05 12:02:15

Local clock offset: 0.121 ms

Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2018-06-05 13:37:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 113.084 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.119 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.23 Mbit/s

95th percentile per-packet one-way delay: 112.664 ms

Loss rate: 0.00%

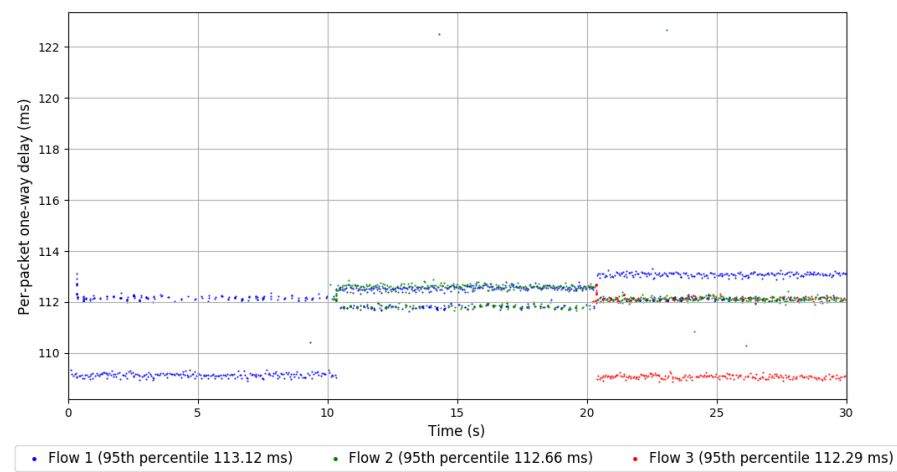
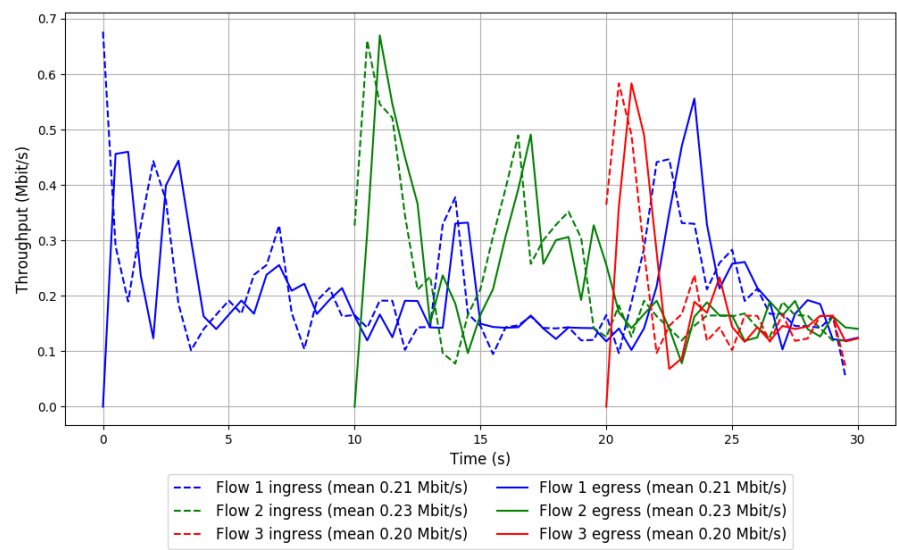
-- Flow 3:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 112.288 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

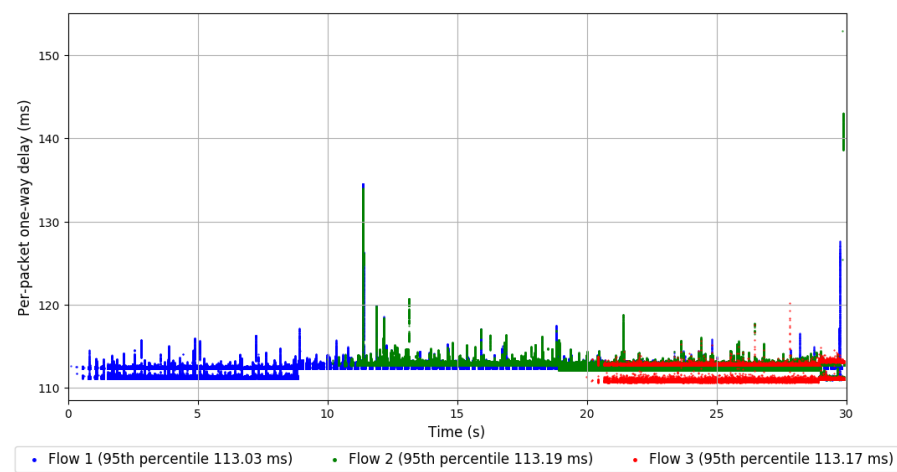
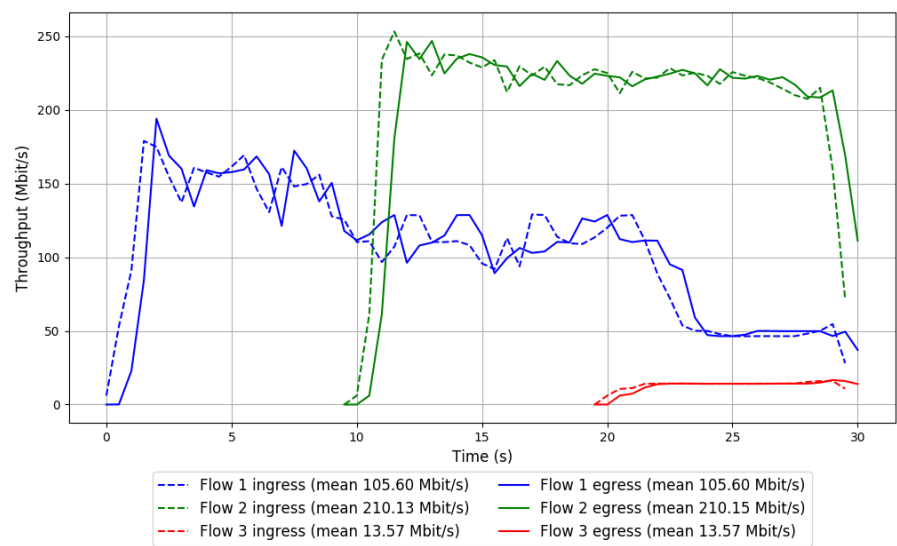


Run 1: Statistics of TaoVA-100x

Start at: 2018-06-05 08:20:06  
End at: 2018-06-05 08:20:36  
Local clock offset: -0.382 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-06-05 13:43:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 250.44 Mbit/s  
95th percentile per-packet one-way delay: 113.121 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 105.60 Mbit/s  
95th percentile per-packet one-way delay: 113.026 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 210.15 Mbit/s  
95th percentile per-packet one-way delay: 113.186 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 13.57 Mbit/s  
95th percentile per-packet one-way delay: 113.166 ms  
Loss rate: 0.00%

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

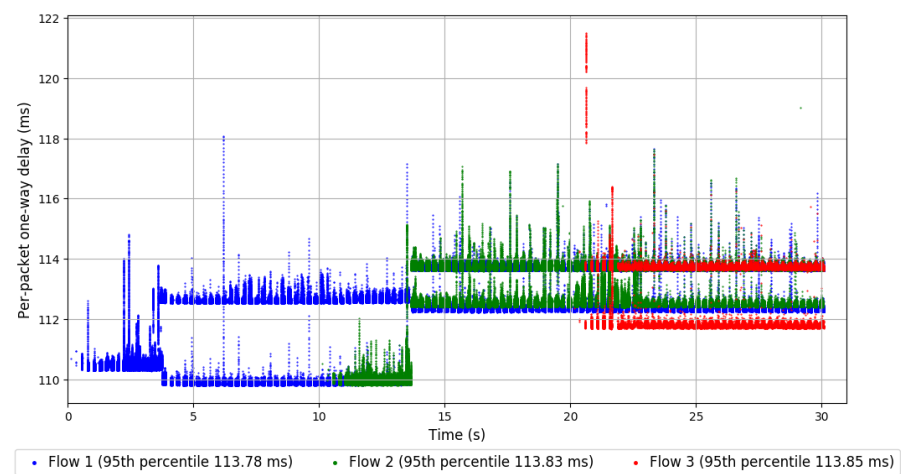
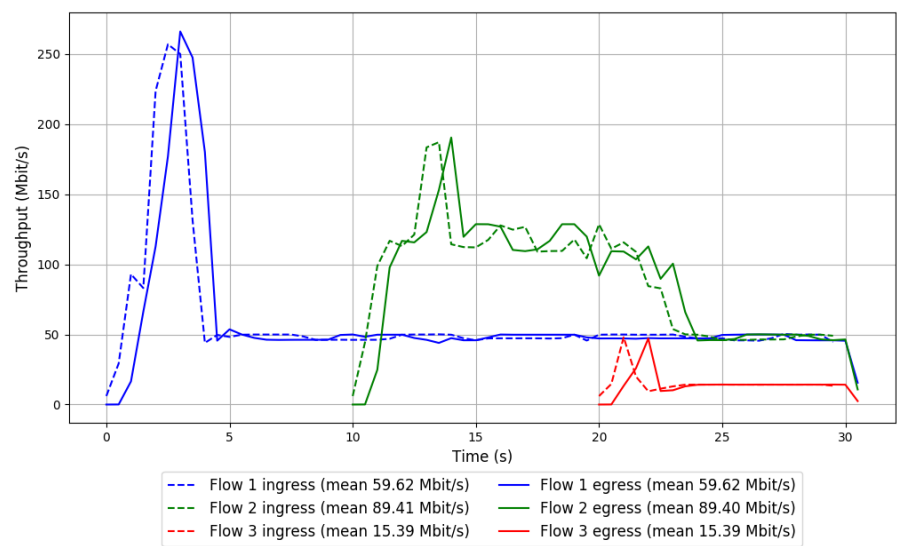


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-05 08:43:41  
End at: 2018-06-05 08:44:11  
Local clock offset: -0.158 ms  
Remote clock offset: -0.462 ms

# Below is generated by plot.py at 2018-06-05 13:43:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 124.18 Mbit/s  
95th percentile per-packet one-way delay: 113.811 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 59.62 Mbit/s  
95th percentile per-packet one-way delay: 113.775 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 89.40 Mbit/s  
95th percentile per-packet one-way delay: 113.830 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 15.39 Mbit/s  
95th percentile per-packet one-way delay: 113.853 ms  
Loss rate: 0.01%

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



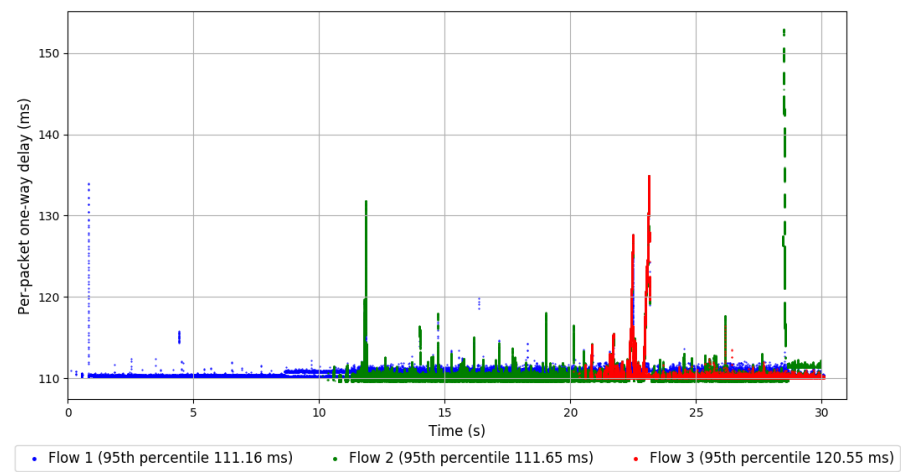
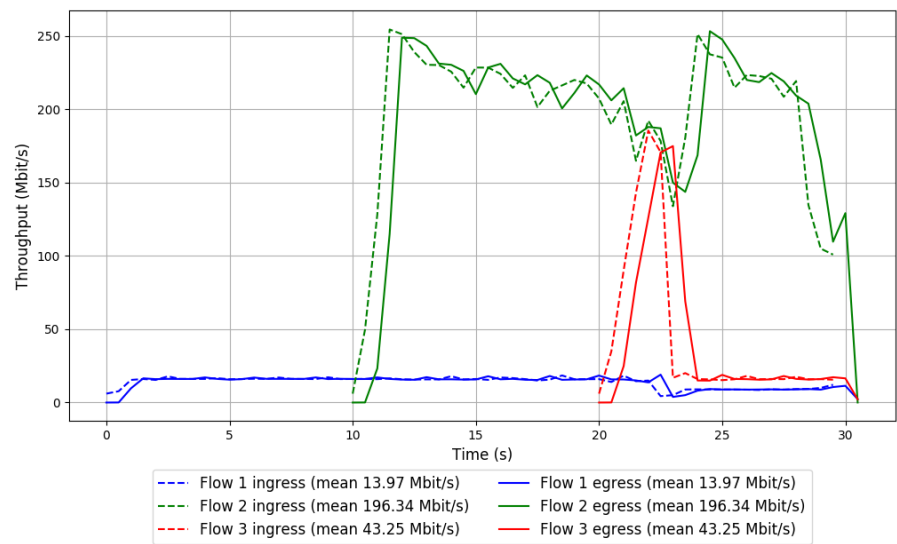
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-05 09:07:36  
End at: 2018-06-05 09:08:06  
Local clock offset: -0.019 ms  
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2018-06-05 13:43:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 159.10 Mbit/s  
95th percentile per-packet one-way delay: 111.946 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 13.97 Mbit/s  
95th percentile per-packet one-way delay: 111.158 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 196.34 Mbit/s  
95th percentile per-packet one-way delay: 111.650 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 43.25 Mbit/s  
95th percentile per-packet one-way delay: 120.545 ms  
Loss rate: 0.00%



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

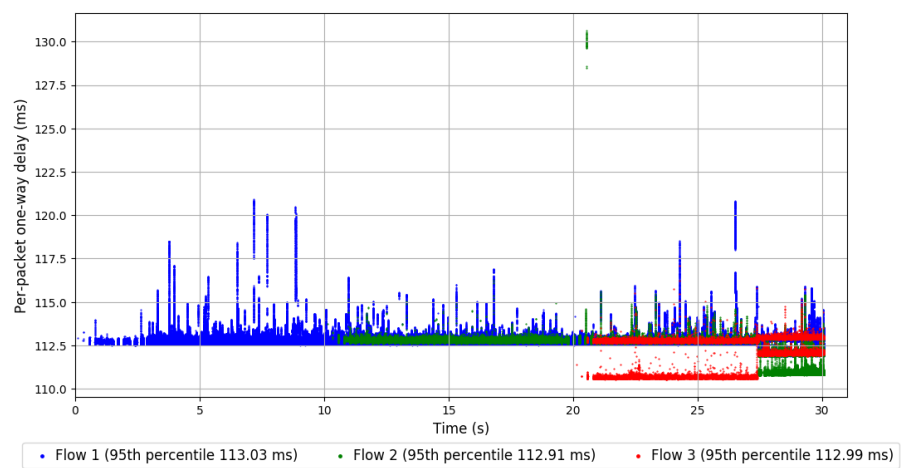
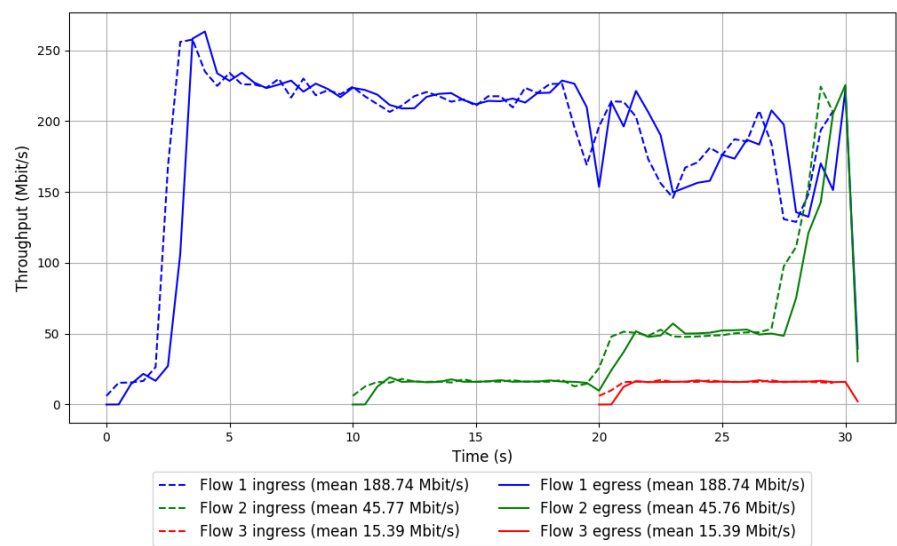


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-05 09:31:27  
End at: 2018-06-05 09:31:57  
Local clock offset: -0.225 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-05 13:43:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 224.31 Mbit/s  
95th percentile per-packet one-way delay: 113.002 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 188.74 Mbit/s  
95th percentile per-packet one-way delay: 113.026 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 45.76 Mbit/s  
95th percentile per-packet one-way delay: 112.911 ms  
Loss rate: 0.02%  
-- Flow 3:  
Average throughput: 15.39 Mbit/s  
95th percentile per-packet one-way delay: 112.990 ms  
Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-05 09:55:09

End at: 2018-06-05 09:55:39

Local clock offset: -0.328 ms

Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2018-06-05 13:45:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 276.69 Mbit/s

95th percentile per-packet one-way delay: 113.431 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 156.32 Mbit/s

95th percentile per-packet one-way delay: 113.313 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 174.07 Mbit/s

95th percentile per-packet one-way delay: 113.594 ms

Loss rate: 0.00%

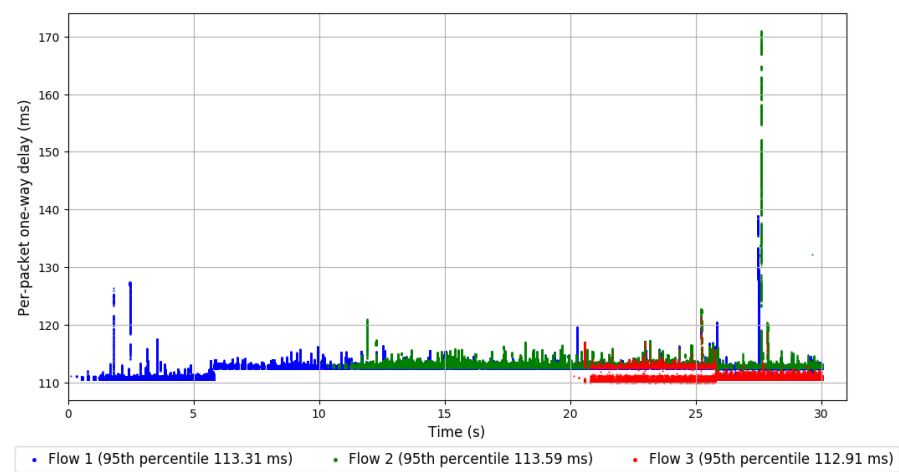
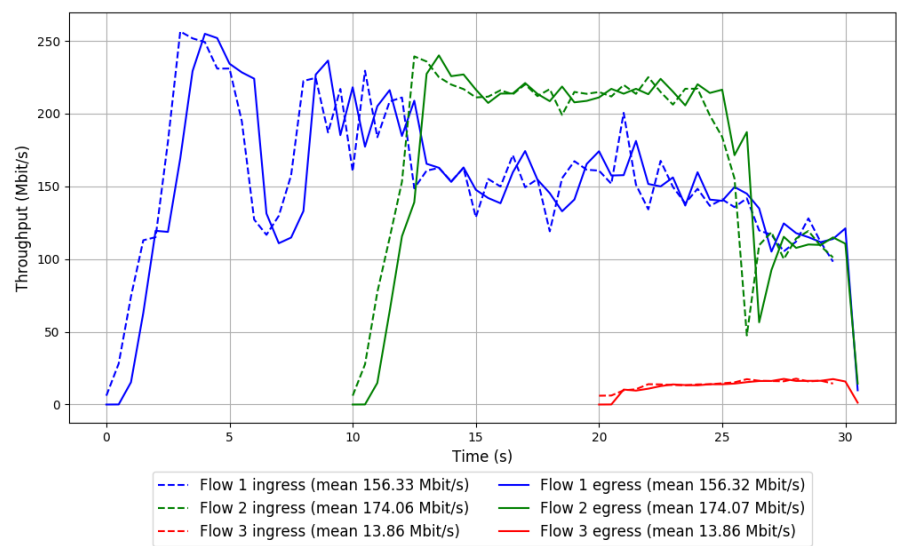
-- Flow 3:

Average throughput: 13.86 Mbit/s

95th percentile per-packet one-way delay: 112.911 ms

Loss rate: 0.00%

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

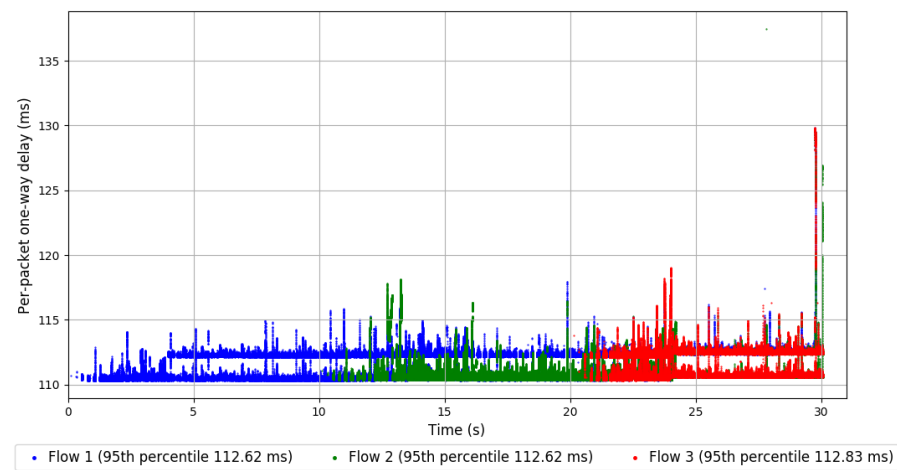
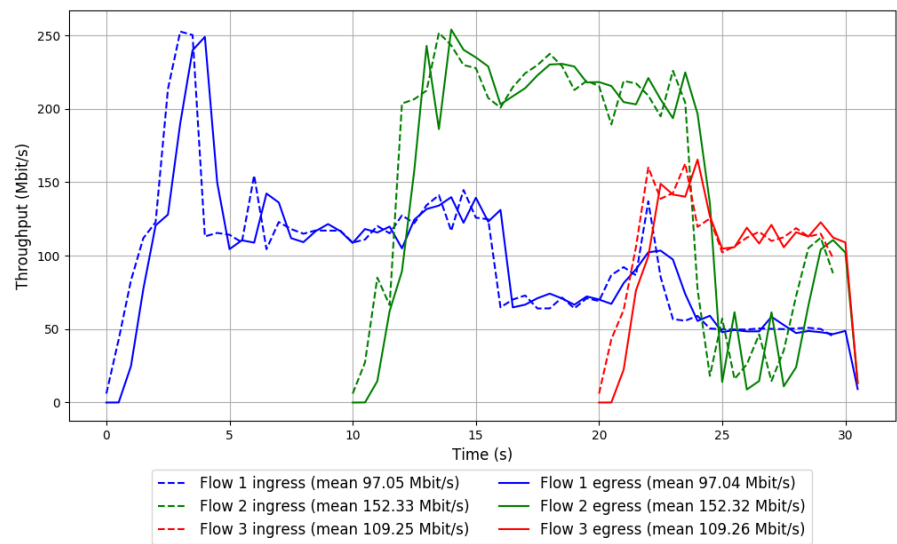


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-05 10:18:41  
End at: 2018-06-05 10:19:11  
Local clock offset: -0.032 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-06-05 13:45:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 234.69 Mbit/s  
95th percentile per-packet one-way delay: 112.652 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 97.04 Mbit/s  
95th percentile per-packet one-way delay: 112.619 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 152.32 Mbit/s  
95th percentile per-packet one-way delay: 112.621 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 109.26 Mbit/s  
95th percentile per-packet one-way delay: 112.829 ms  
Loss rate: 0.00%

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



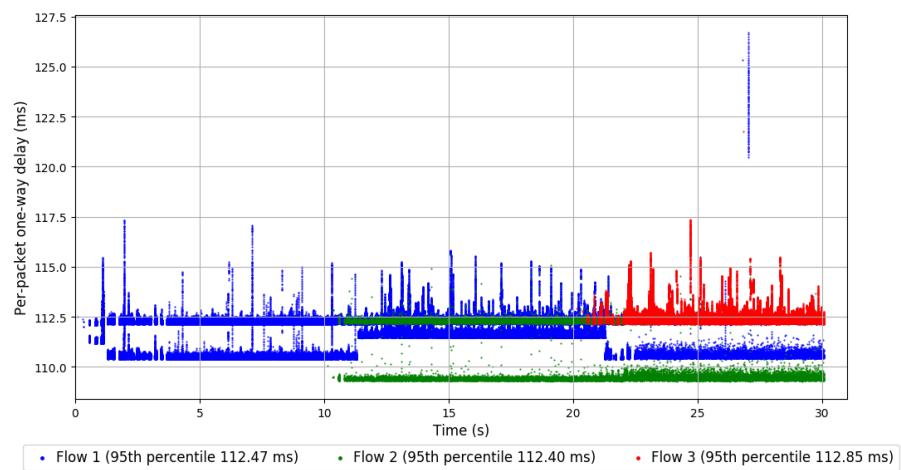
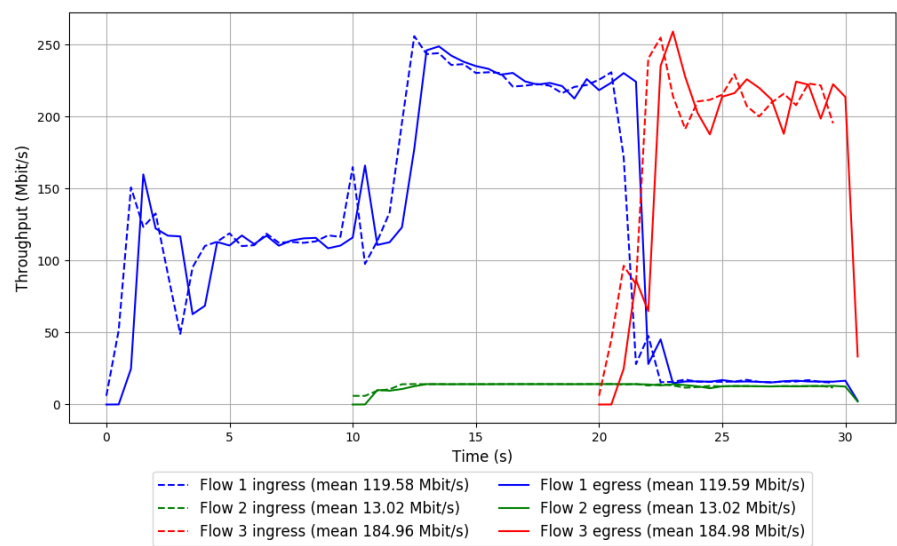
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-05 10:42:34  
End at: 2018-06-05 10:43:04  
Local clock offset: -0.342 ms  
Remote clock offset: -0.433 ms

# Below is generated by plot.py at 2018-06-05 13:45:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 189.63 Mbit/s  
95th percentile per-packet one-way delay: 112.615 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 119.59 Mbit/s  
95th percentile per-packet one-way delay: 112.473 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 13.02 Mbit/s  
95th percentile per-packet one-way delay: 112.398 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 184.98 Mbit/s  
95th percentile per-packet one-way delay: 112.848 ms  
Loss rate: 0.02%



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

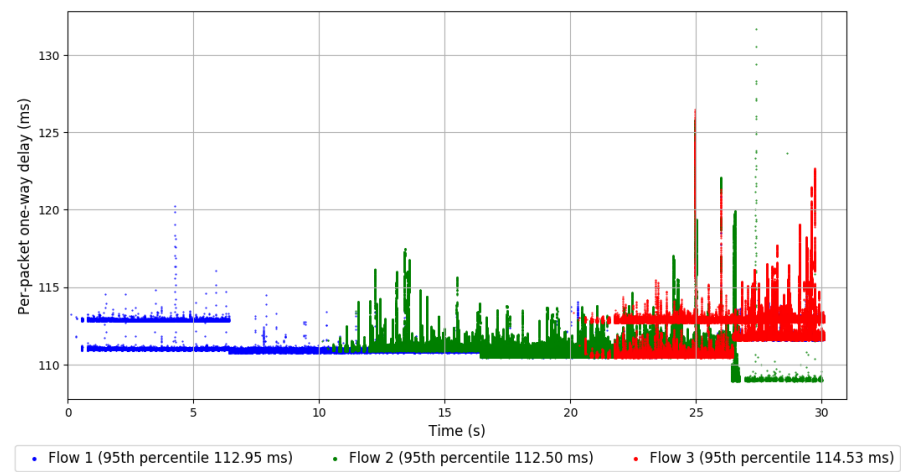
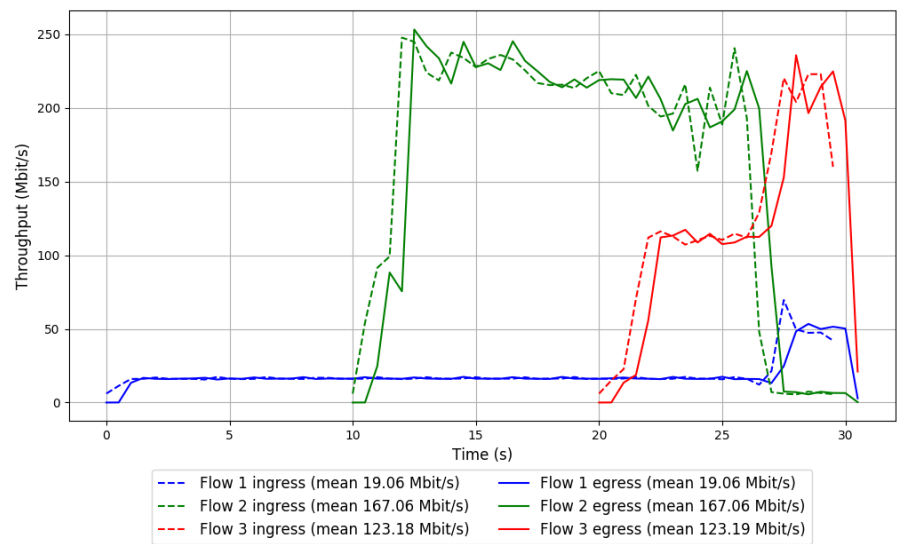


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-05 11:06:29  
End at: 2018-06-05 11:06:59  
Local clock offset: -0.446 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-06-05 13:45:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 170.84 Mbit/s  
95th percentile per-packet one-way delay: 113.173 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 19.06 Mbit/s  
95th percentile per-packet one-way delay: 112.955 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 167.06 Mbit/s  
95th percentile per-packet one-way delay: 112.502 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 123.19 Mbit/s  
95th percentile per-packet one-way delay: 114.528 ms  
Loss rate: 0.00%

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

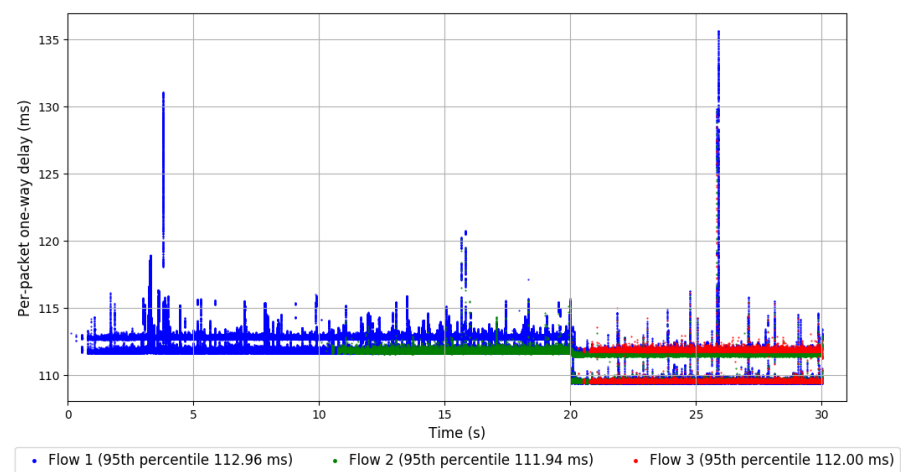
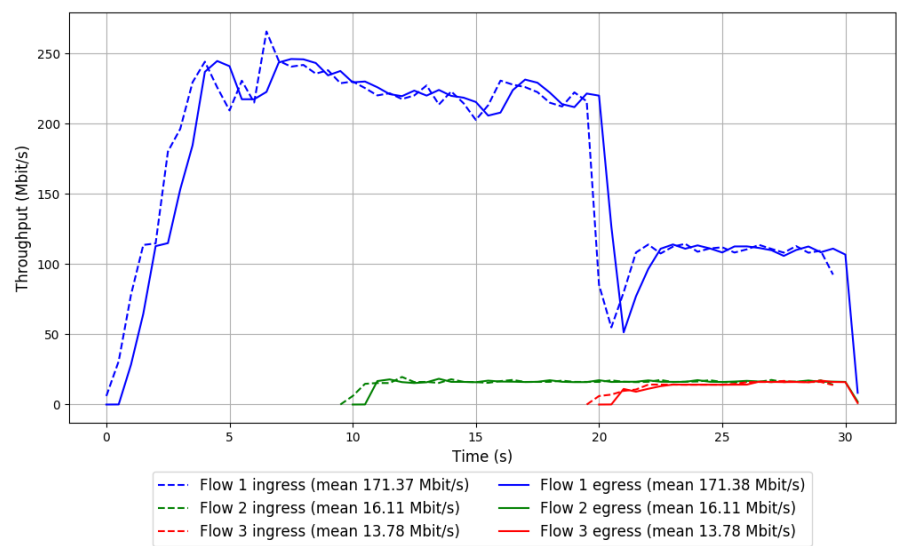


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-05 11:30:15  
End at: 2018-06-05 11:30:45  
Local clock offset: -0.054 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2018-06-05 13:46:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 186.71 Mbit/s  
95th percentile per-packet one-way delay: 112.945 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 171.38 Mbit/s  
95th percentile per-packet one-way delay: 112.964 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 16.11 Mbit/s  
95th percentile per-packet one-way delay: 111.941 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 13.78 Mbit/s  
95th percentile per-packet one-way delay: 111.999 ms  
Loss rate: 0.00%

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

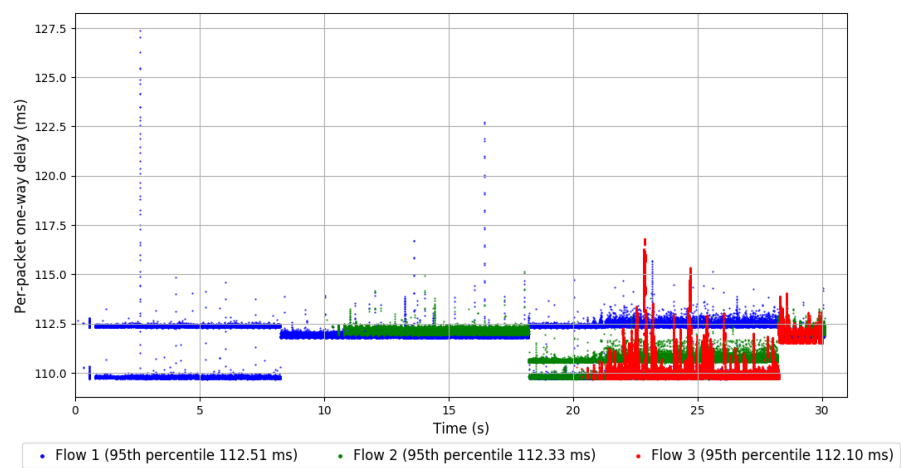
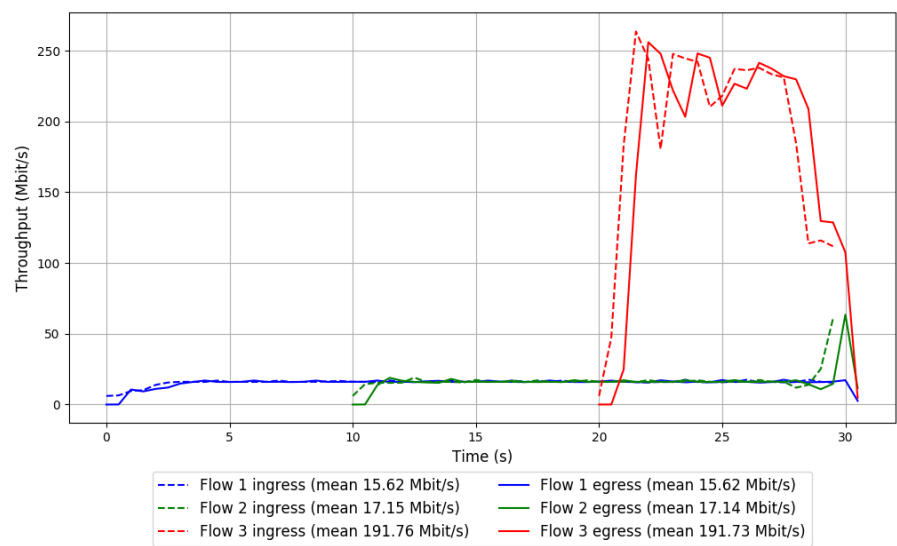


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-05 11:53:57  
End at: 2018-06-05 11:54:27  
Local clock offset: -0.36 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-05 13:46:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.23 Mbit/s  
95th percentile per-packet one-way delay: 112.365 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 15.62 Mbit/s  
95th percentile per-packet one-way delay: 112.507 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 17.14 Mbit/s  
95th percentile per-packet one-way delay: 112.325 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 191.73 Mbit/s  
95th percentile per-packet one-way delay: 112.098 ms  
Loss rate: 0.00%

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



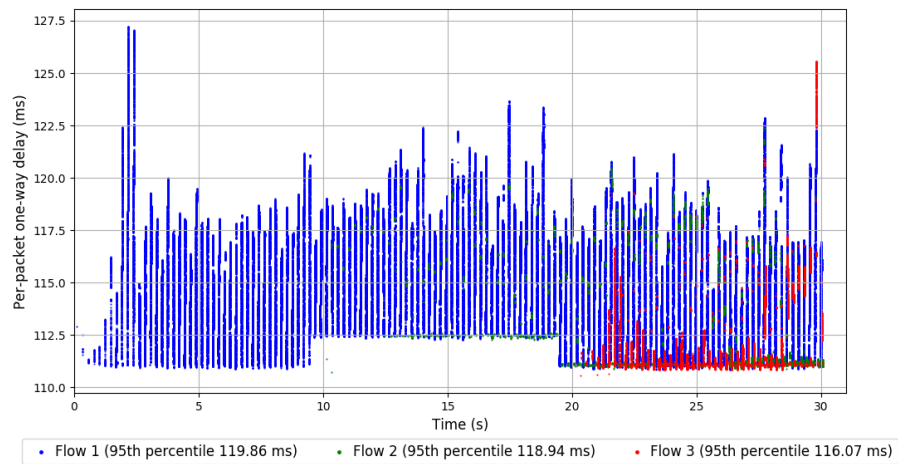
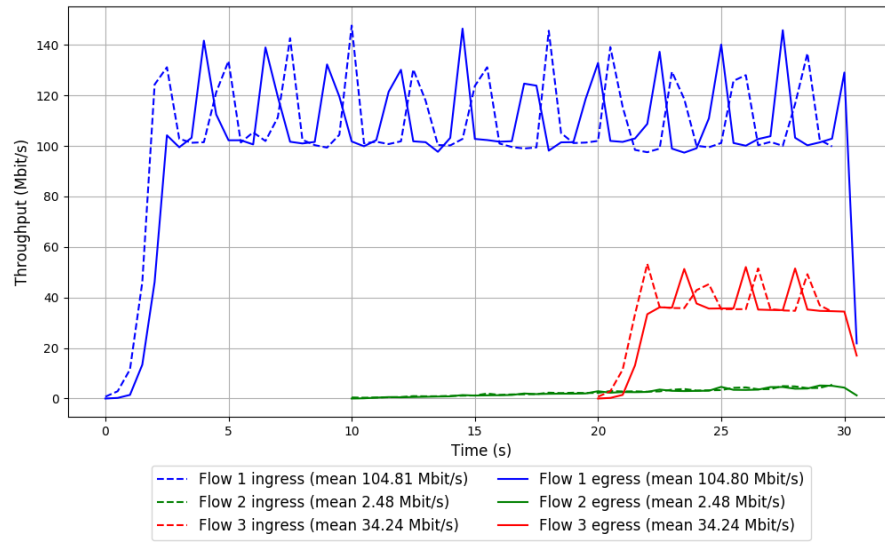
Run 1: Statistics of TCP Vegas

Start at: 2018-06-05 08:18:45  
End at: 2018-06-05 08:19:15  
Local clock offset: -0.131 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-06-05 13:46:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.61 Mbit/s  
95th percentile per-packet one-way delay: 119.781 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 104.80 Mbit/s  
95th percentile per-packet one-way delay: 119.858 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 2.48 Mbit/s  
95th percentile per-packet one-way delay: 118.945 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 34.24 Mbit/s  
95th percentile per-packet one-way delay: 116.066 ms  
Loss rate: 0.00%



# Run 1: Report of TCP Vegas — Data Link

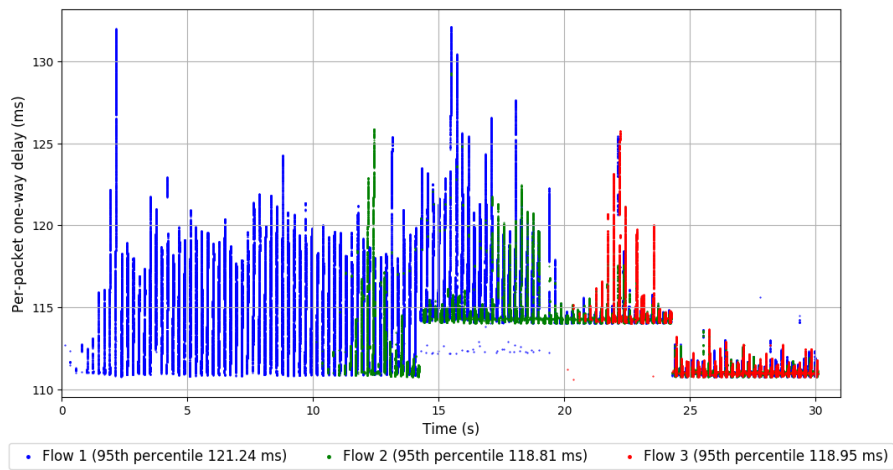
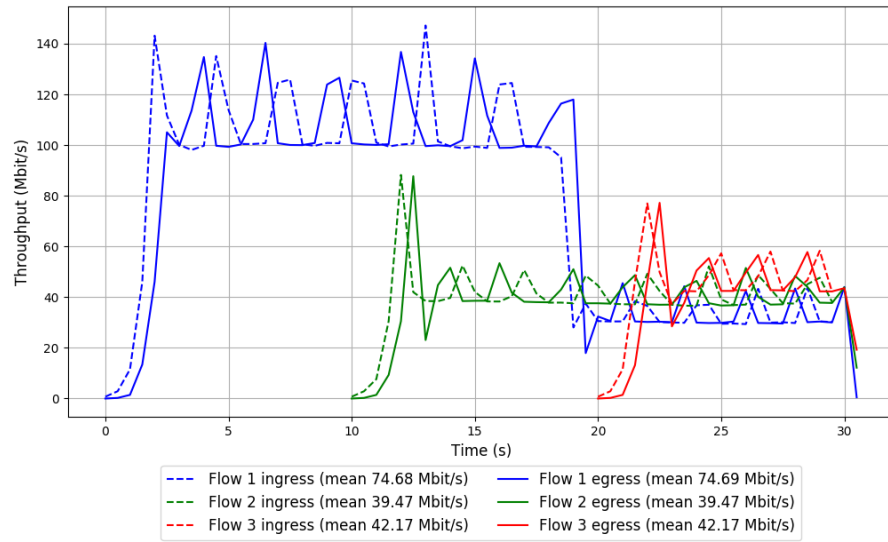


Run 2: Statistics of TCP Vegas

Start at: 2018-06-05 08:42:21  
End at: 2018-06-05 08:42:51  
Local clock offset: -0.216 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2018-06-05 13:46:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 114.95 Mbit/s  
95th percentile per-packet one-way delay: 120.646 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 74.69 Mbit/s  
95th percentile per-packet one-way delay: 121.237 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.47 Mbit/s  
95th percentile per-packet one-way delay: 118.808 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 42.17 Mbit/s  
95th percentile per-packet one-way delay: 118.951 ms  
Loss rate: 0.00%

## Run 2: Report of TCP Vegas — Data Link

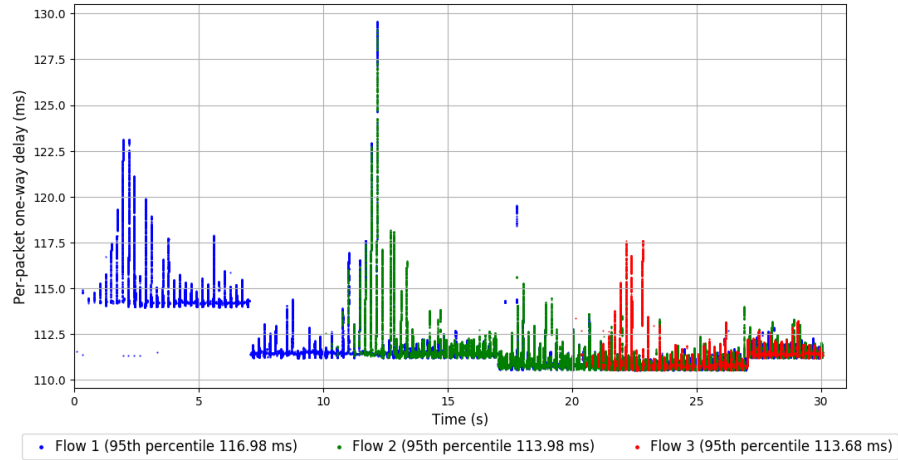
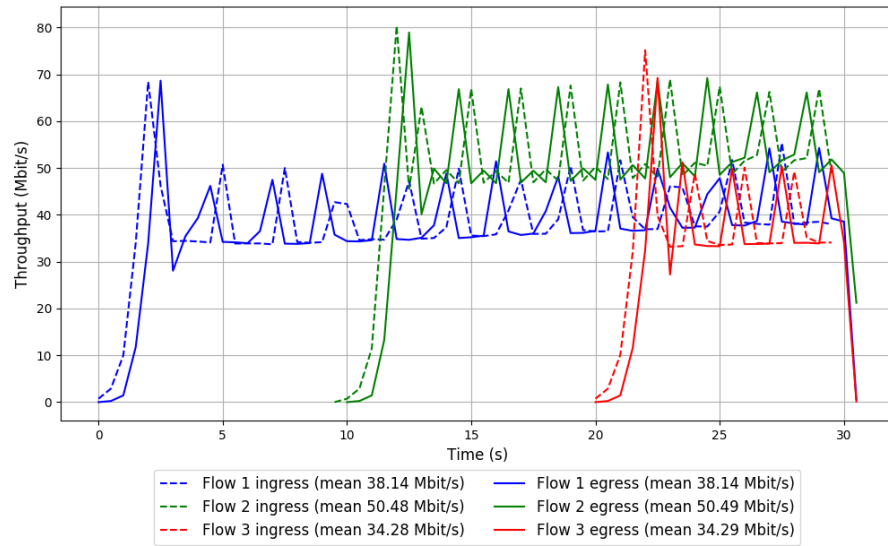


Run 3: Statistics of TCP Vegas

Start at: 2018-06-05 09:06:18  
End at: 2018-06-05 09:06:48  
Local clock offset: -0.413 ms  
Remote clock offset: -0.415 ms

# Below is generated by plot.py at 2018-06-05 13:46:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.11 Mbit/s  
95th percentile per-packet one-way delay: 115.547 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 38.14 Mbit/s  
95th percentile per-packet one-way delay: 116.982 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 50.49 Mbit/s  
95th percentile per-packet one-way delay: 113.983 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 34.29 Mbit/s  
95th percentile per-packet one-way delay: 113.677 ms  
Loss rate: 0.00%

### Run 3: Report of TCP Vegas — Data Link

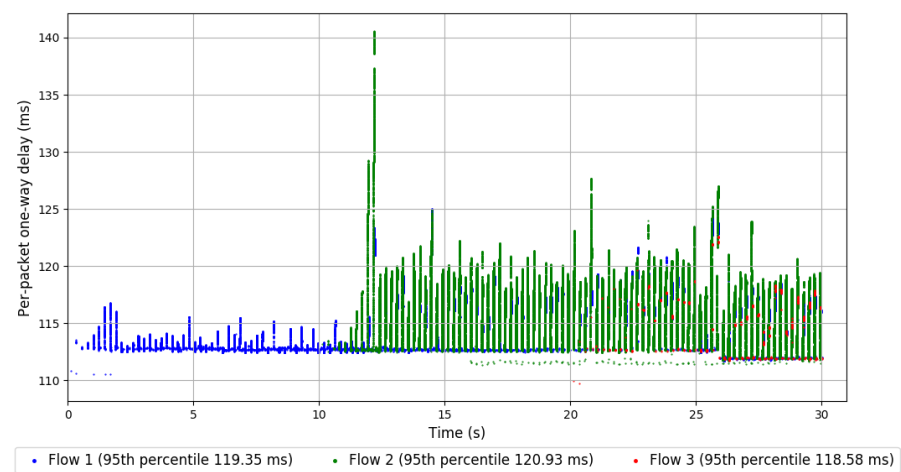
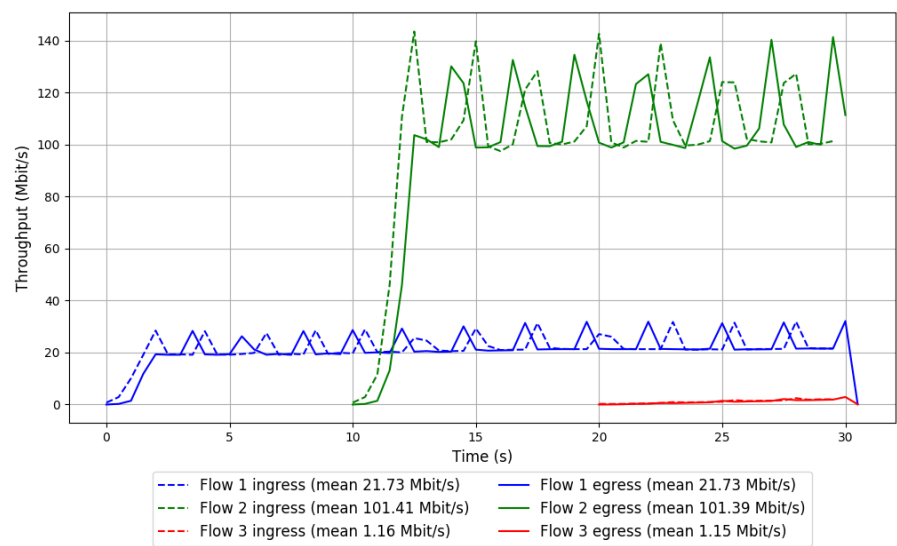


Run 4: Statistics of TCP Vegas

Start at: 2018-06-05 09:30:09  
End at: 2018-06-05 09:30:39  
Local clock offset: -0.012 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2018-06-05 13:46:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.34 Mbit/s  
95th percentile per-packet one-way delay: 120.748 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 21.73 Mbit/s  
95th percentile per-packet one-way delay: 119.350 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 101.39 Mbit/s  
95th percentile per-packet one-way delay: 120.933 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.15 Mbit/s  
95th percentile per-packet one-way delay: 118.582 ms  
Loss rate: 0.95%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-05 09:53:52

End at: 2018-06-05 09:54:22

Local clock offset: -0.182 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-06-05 13:46:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.61 Mbit/s

95th percentile per-packet one-way delay: 118.587 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 27.14 Mbit/s

95th percentile per-packet one-way delay: 118.462 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 119.396 ms

Loss rate: 0.00%

-- Flow 3:

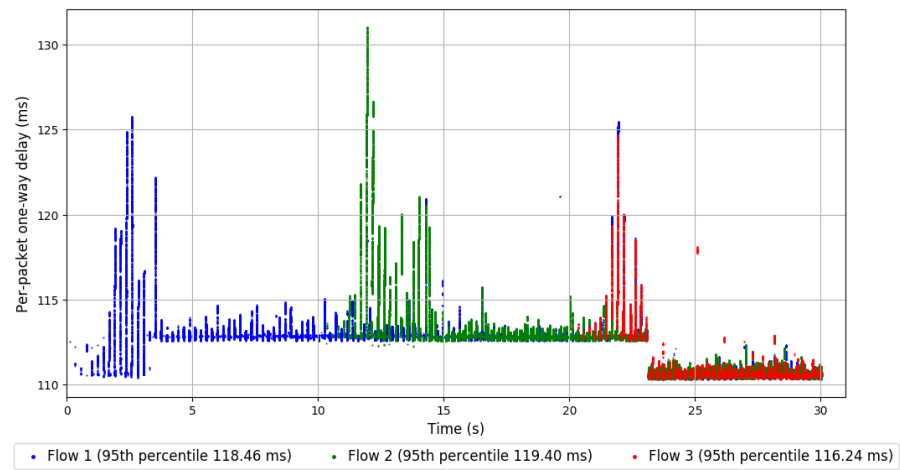
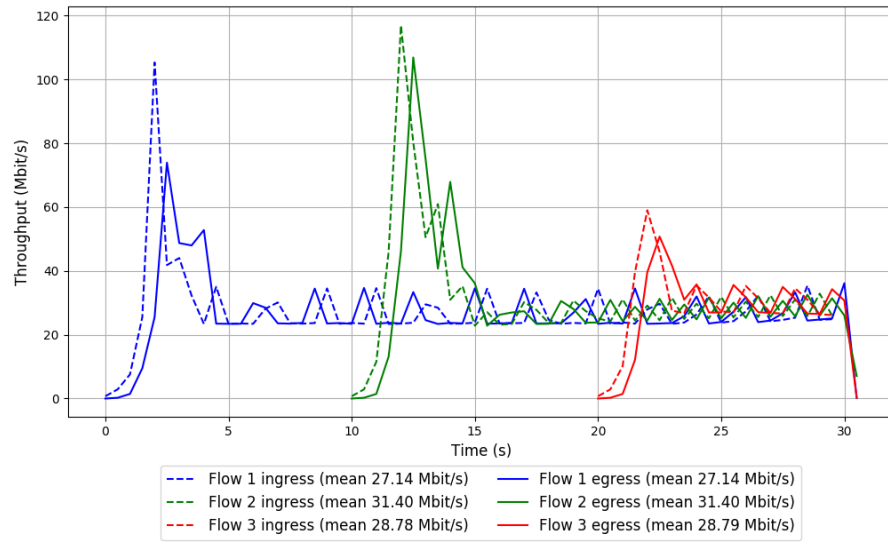
Average throughput: 28.79 Mbit/s

95th percentile per-packet one-way delay: 116.240 ms

Loss rate: 0.00%



# Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-05 10:17:23

End at: 2018-06-05 10:17:53

Local clock offset: -0.409 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2018-06-05 13:46:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.12 Mbit/s

95th percentile per-packet one-way delay: 115.683 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 19.44 Mbit/s

95th percentile per-packet one-way delay: 115.113 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 115.676 ms

Loss rate: 0.00%

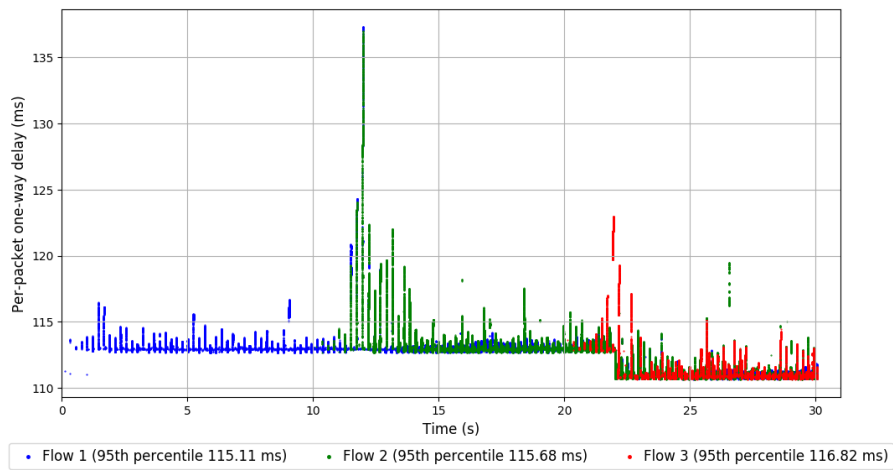
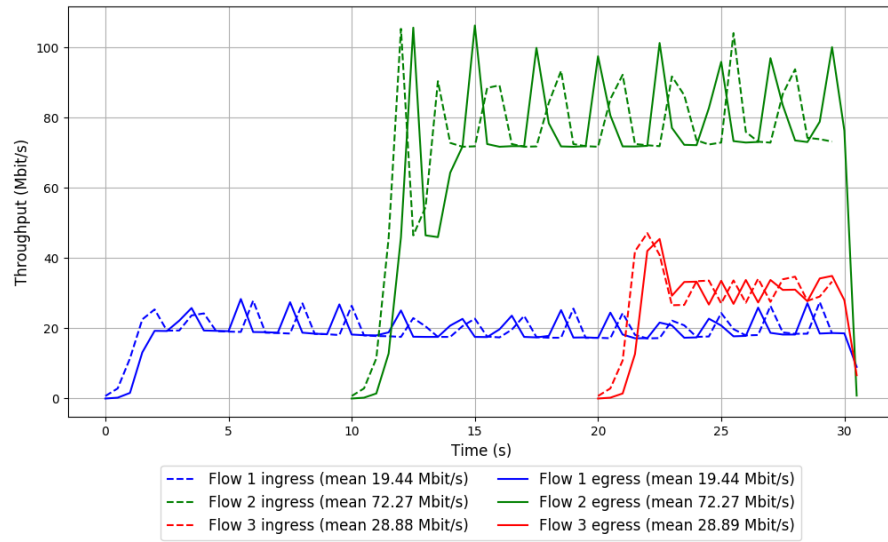
-- Flow 3:

Average throughput: 28.89 Mbit/s

95th percentile per-packet one-way delay: 116.823 ms

Loss rate: 0.00%

## Run 6: Report of TCP Vegas — Data Link

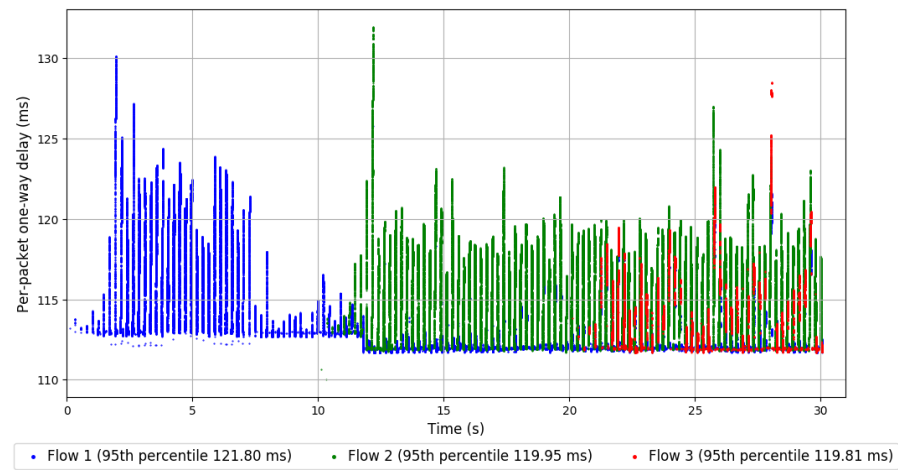
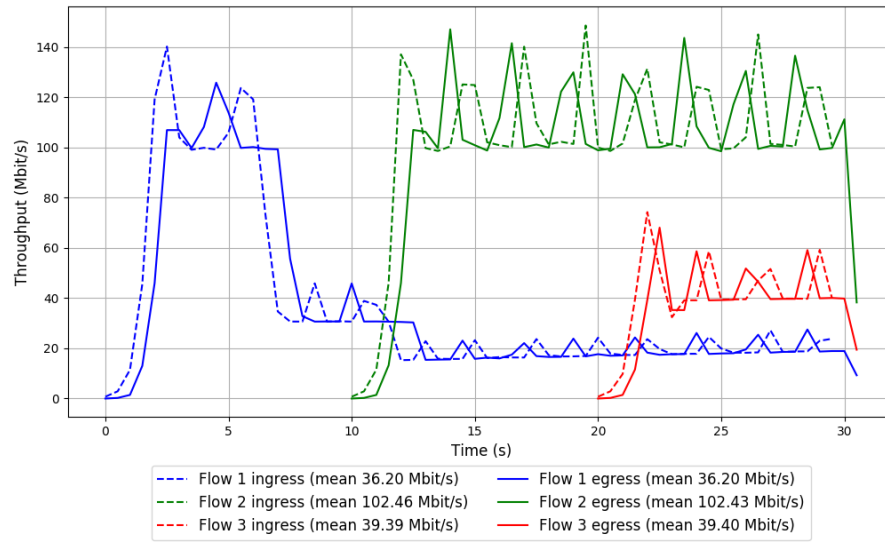


Run 7: Statistics of TCP Vegas

Start at: 2018-06-05 10:41:13  
End at: 2018-06-05 10:41:43  
Local clock offset: -0.534 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-05 13:46:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.37 Mbit/s  
95th percentile per-packet one-way delay: 120.620 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 36.20 Mbit/s  
95th percentile per-packet one-way delay: 121.798 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 102.43 Mbit/s  
95th percentile per-packet one-way delay: 119.948 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 39.40 Mbit/s  
95th percentile per-packet one-way delay: 119.812 ms  
Loss rate: 0.00%

# Run 7: Report of TCP Vegas — Data Link

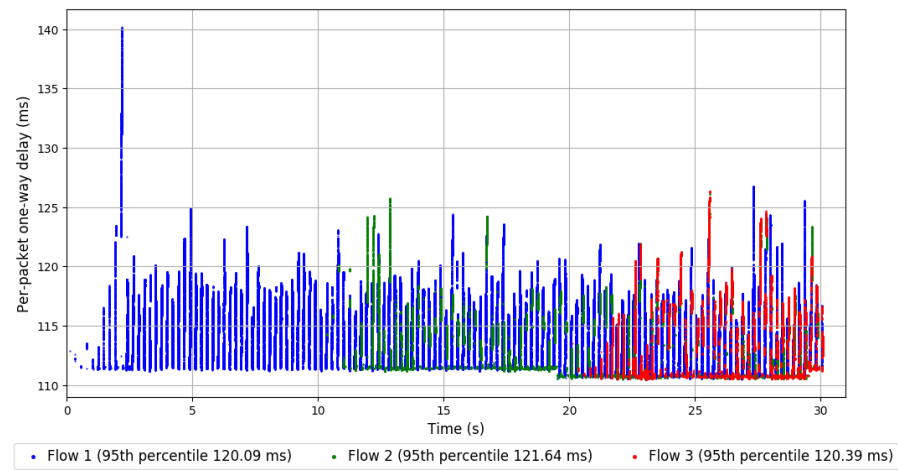
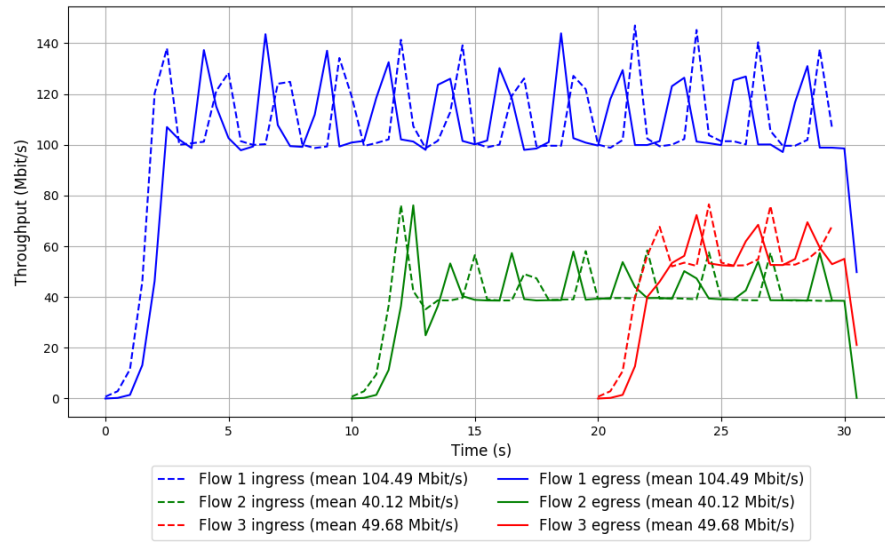


Run 8: Statistics of TCP Vegas

Start at: 2018-06-05 11:05:06  
End at: 2018-06-05 11:05:36  
Local clock offset: -0.104 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-06-05 13:47:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 147.66 Mbit/s  
95th percentile per-packet one-way delay: 120.366 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 104.49 Mbit/s  
95th percentile per-packet one-way delay: 120.089 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 40.12 Mbit/s  
95th percentile per-packet one-way delay: 121.643 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 49.68 Mbit/s  
95th percentile per-packet one-way delay: 120.394 ms  
Loss rate: 0.00%

# Run 8: Report of TCP Vegas — Data Link



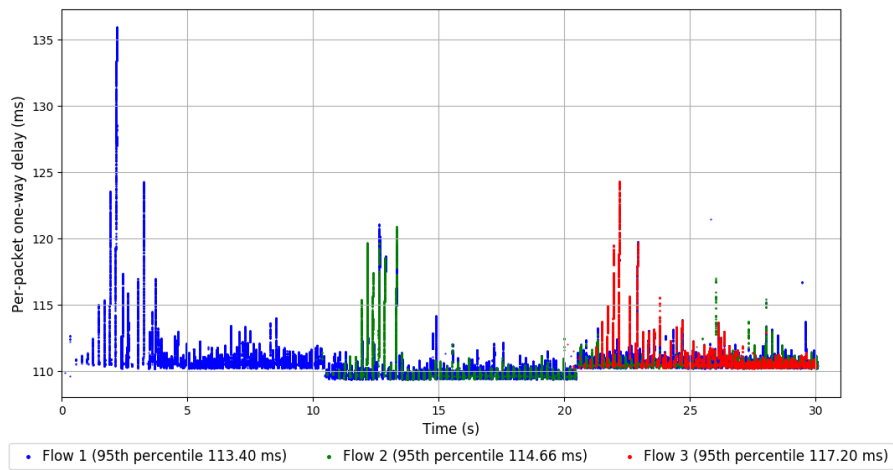
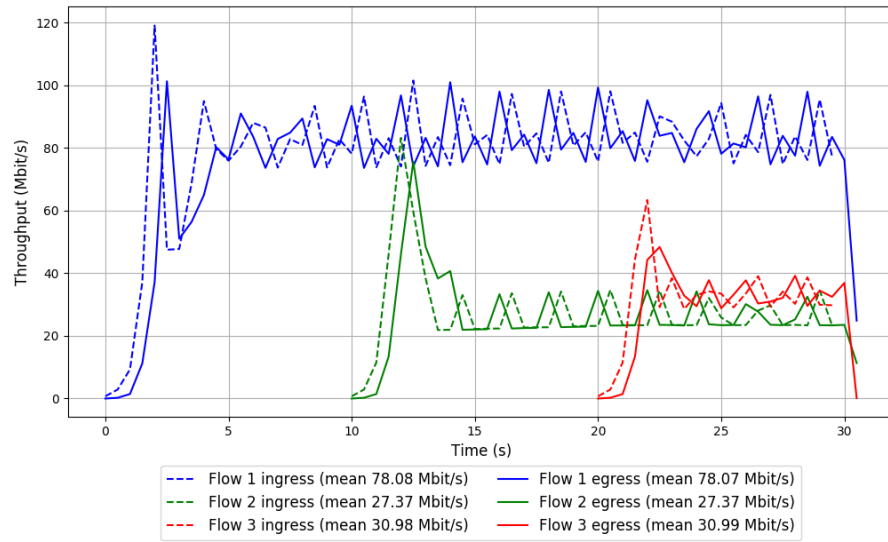
Run 9: Statistics of TCP Vegas

Start at: 2018-06-05 11:28:54  
End at: 2018-06-05 11:29:24  
Local clock offset: -0.085 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-05 13:47:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 106.52 Mbit/s  
95th percentile per-packet one-way delay: 114.277 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 78.07 Mbit/s  
95th percentile per-packet one-way delay: 113.402 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 27.37 Mbit/s  
95th percentile per-packet one-way delay: 114.661 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 30.99 Mbit/s  
95th percentile per-packet one-way delay: 117.199 ms  
Loss rate: 0.00%



### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-05 11:52:35

End at: 2018-06-05 11:53:05

Local clock offset: -0.119 ms

Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2018-06-05 13:47:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 145.25 Mbit/s

95th percentile per-packet one-way delay: 119.741 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 102.94 Mbit/s

95th percentile per-packet one-way delay: 119.850 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 18.13 Mbit/s

95th percentile per-packet one-way delay: 116.146 ms

Loss rate: 0.00%

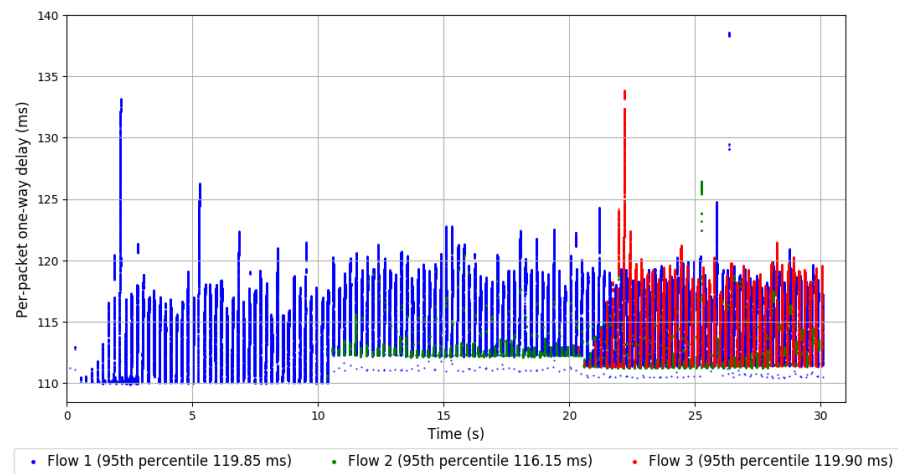
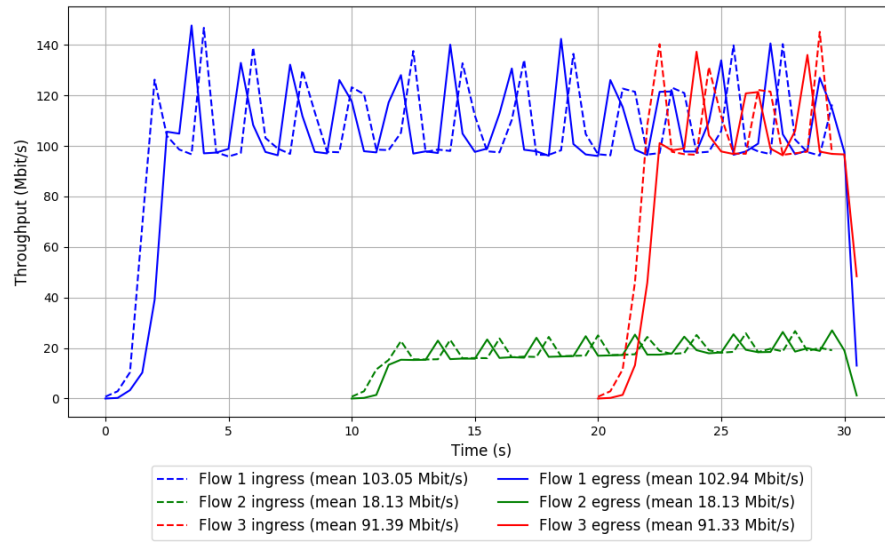
-- Flow 3:

Average throughput: 91.33 Mbit/s

95th percentile per-packet one-way delay: 119.898 ms

Loss rate: 0.00%

# Run 10: Report of TCP Vegas — Data Link

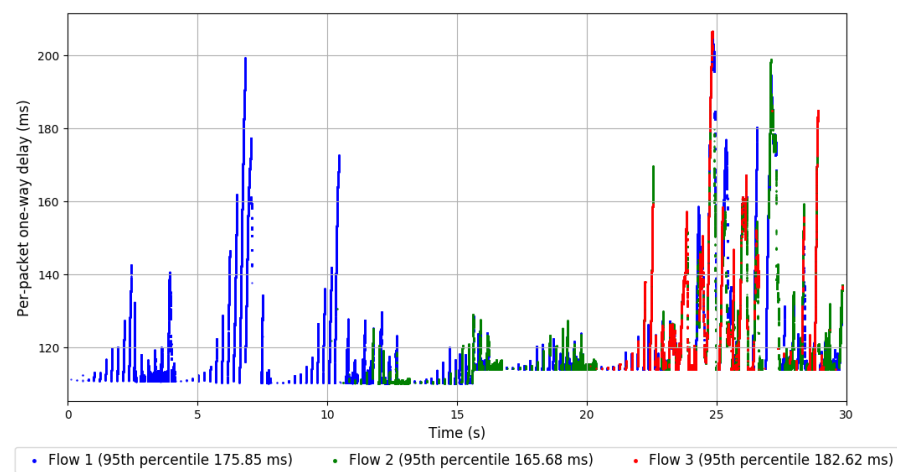
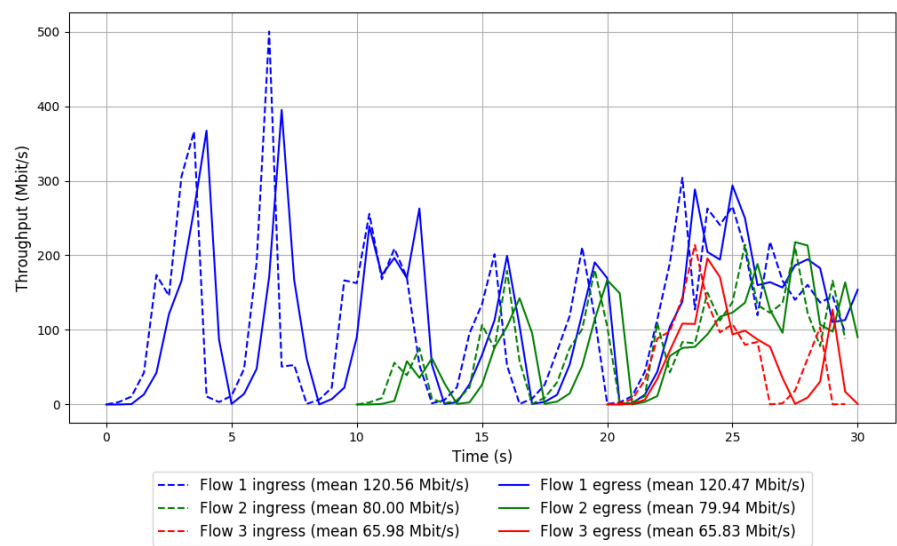


Run 1: Statistics of Verus

Start at: 2018-06-05 08:33:29  
End at: 2018-06-05 08:33:59  
Local clock offset: -0.166 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-05 13:48:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 194.79 Mbit/s  
95th percentile per-packet one-way delay: 175.048 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 120.47 Mbit/s  
95th percentile per-packet one-way delay: 175.855 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 79.94 Mbit/s  
95th percentile per-packet one-way delay: 165.680 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 65.83 Mbit/s  
95th percentile per-packet one-way delay: 182.622 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

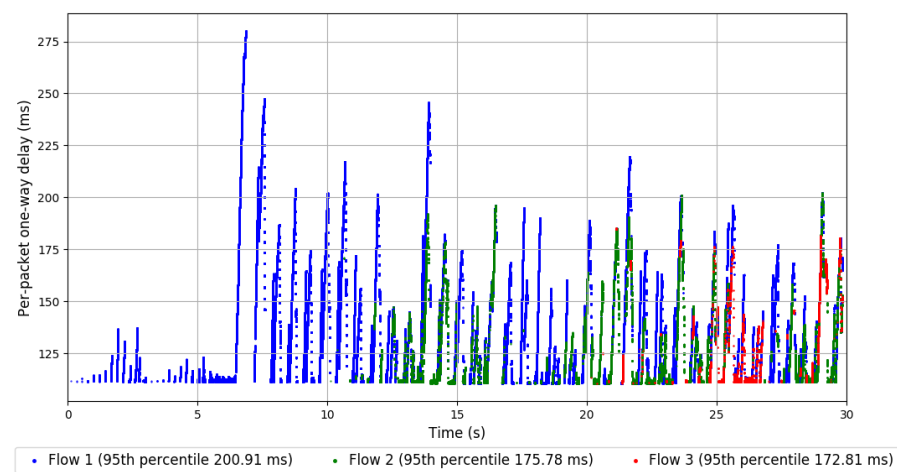
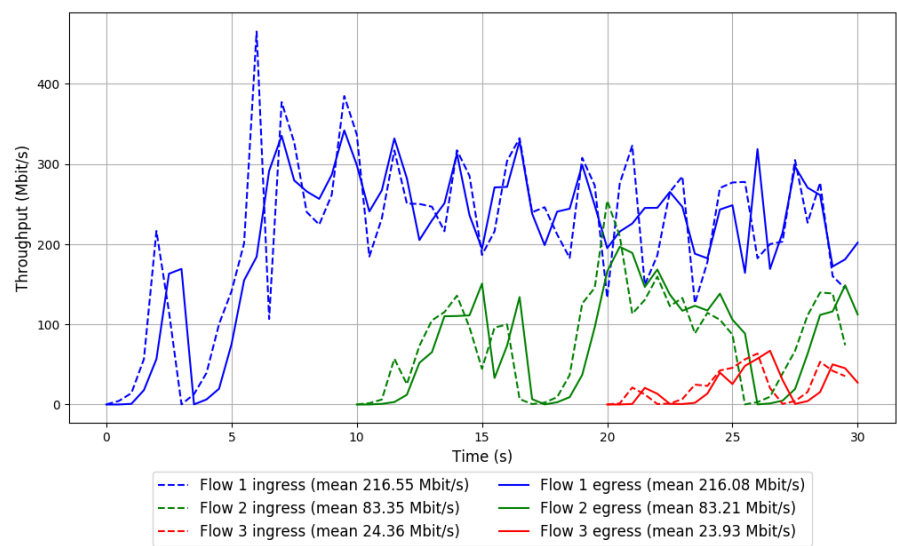


Run 2: Statistics of Verus

Start at: 2018-06-05 08:57:11  
End at: 2018-06-05 08:57:41  
Local clock offset: 0.082 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-06-05 13:50:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 279.06 Mbit/s  
95th percentile per-packet one-way delay: 196.935 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 216.08 Mbit/s  
95th percentile per-packet one-way delay: 200.914 ms  
Loss rate: 0.20%  
-- Flow 2:  
Average throughput: 83.21 Mbit/s  
95th percentile per-packet one-way delay: 175.784 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 23.93 Mbit/s  
95th percentile per-packet one-way delay: 172.813 ms  
Loss rate: 1.73%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-05 09:21:05

End at: 2018-06-05 09:21:35

Local clock offset: -0.271 ms

Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2018-06-05 13:50:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 288.96 Mbit/s

95th percentile per-packet one-way delay: 192.594 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 177.31 Mbit/s

95th percentile per-packet one-way delay: 193.148 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 155.49 Mbit/s

95th percentile per-packet one-way delay: 191.468 ms

Loss rate: 0.94%

-- Flow 3:

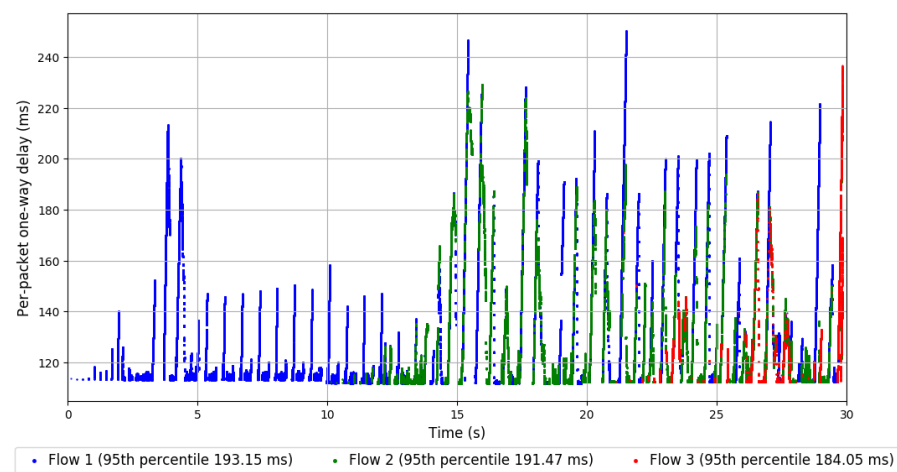
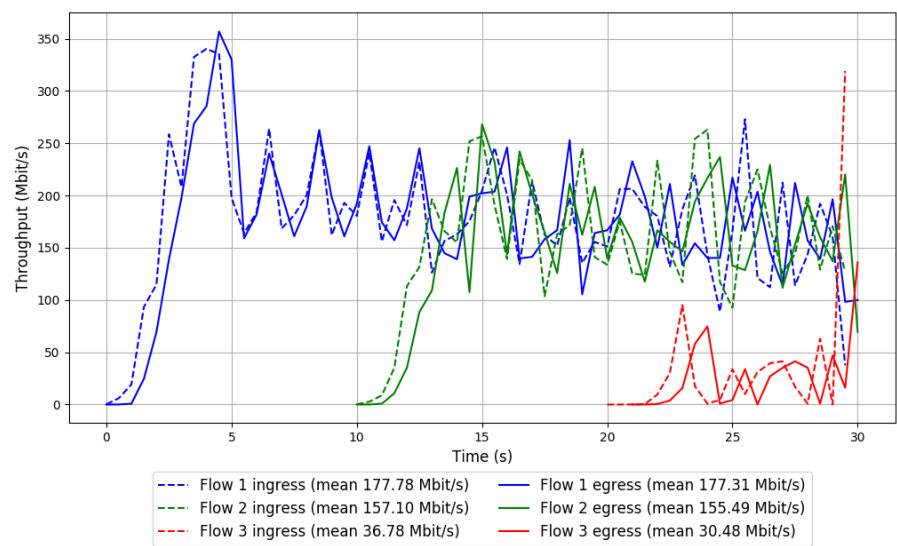
Average throughput: 30.48 Mbit/s

95th percentile per-packet one-way delay: 184.048 ms

Loss rate: 25.64%



Run 3: Report of Verus — Data Link

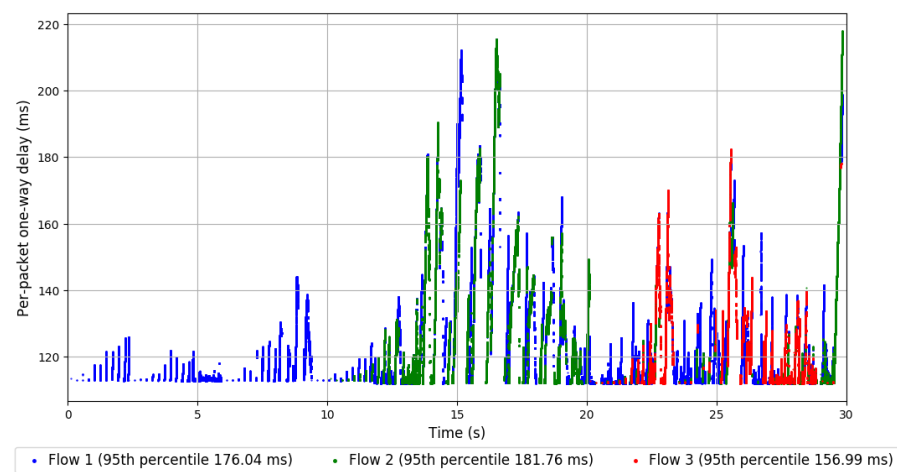
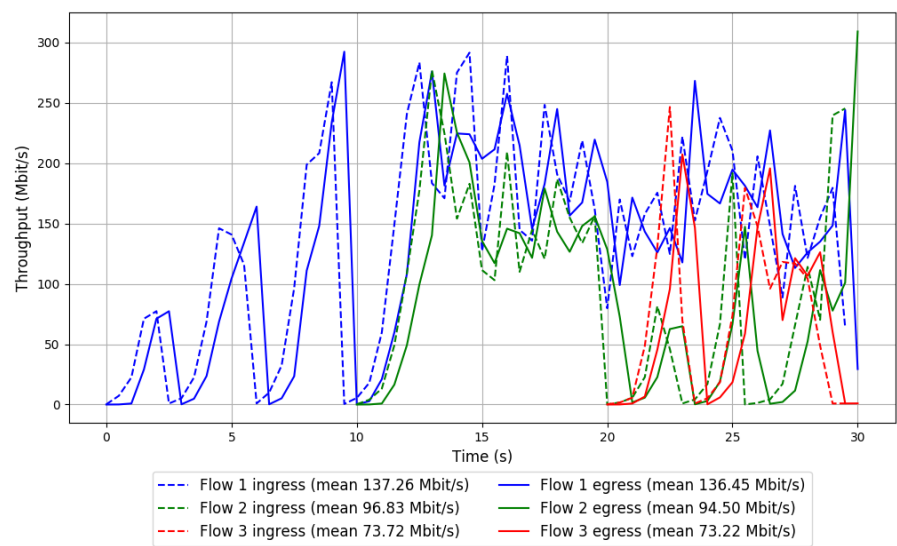


Run 4: Statistics of Verus

Start at: 2018-06-05 09:44:53  
End at: 2018-06-05 09:45:23  
Local clock offset: -0.356 ms  
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-06-05 13:50:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 222.91 Mbit/s  
95th percentile per-packet one-way delay: 175.697 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 136.45 Mbit/s  
95th percentile per-packet one-way delay: 176.044 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 94.50 Mbit/s  
95th percentile per-packet one-way delay: 181.756 ms  
Loss rate: 2.41%  
-- Flow 3:  
Average throughput: 73.22 Mbit/s  
95th percentile per-packet one-way delay: 156.988 ms  
Loss rate: 0.00%

Run 4: Report of Verus — Data Link

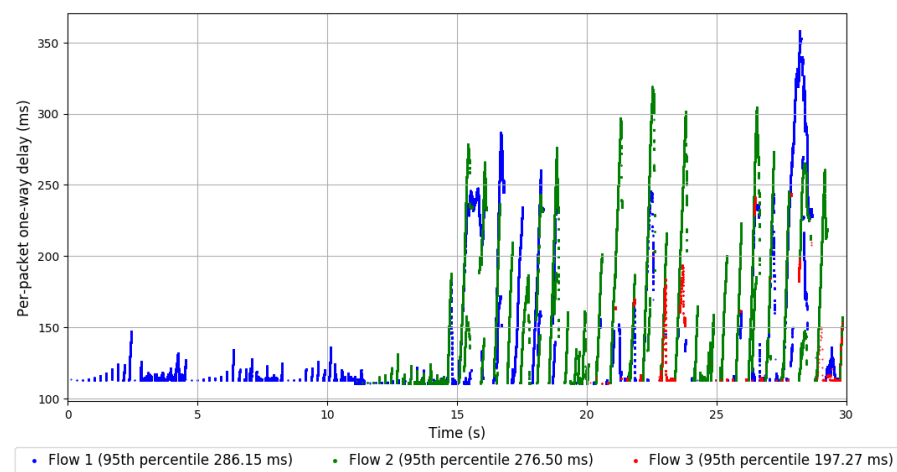
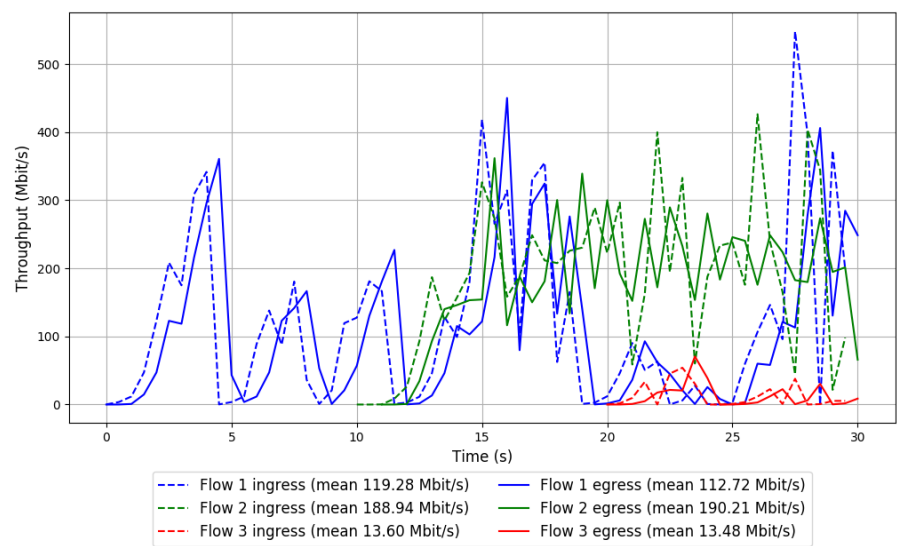


Run 5: Statistics of Verus

Start at: 2018-06-05 10:08:24  
End at: 2018-06-05 10:08:54  
Local clock offset: -0.197 ms  
Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2018-06-05 13:50:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 236.95 Mbit/s  
95th percentile per-packet one-way delay: 278.781 ms  
Loss rate: 4.87%  
-- Flow 1:  
Average throughput: 112.72 Mbit/s  
95th percentile per-packet one-way delay: 286.154 ms  
Loss rate: 5.50%  
-- Flow 2:  
Average throughput: 190.21 Mbit/s  
95th percentile per-packet one-way delay: 276.497 ms  
Loss rate: 4.42%  
-- Flow 3:  
Average throughput: 13.48 Mbit/s  
95th percentile per-packet one-way delay: 197.271 ms  
Loss rate: 0.94%

Run 5: Report of Verus — Data Link

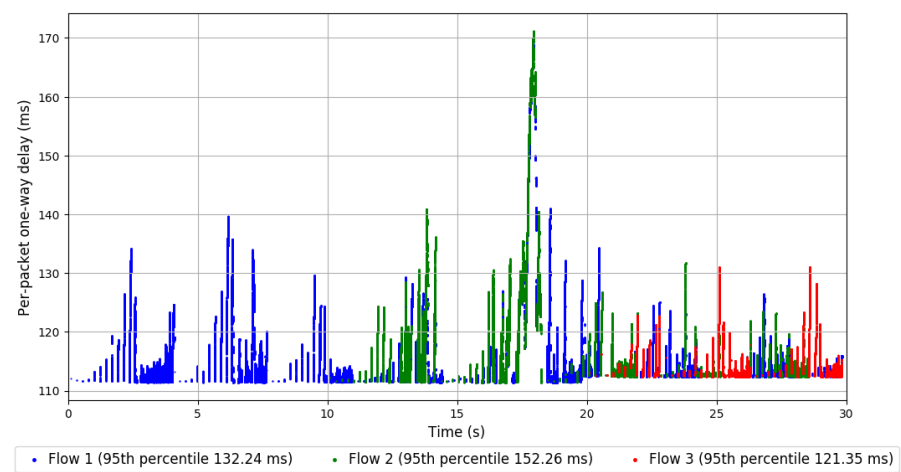
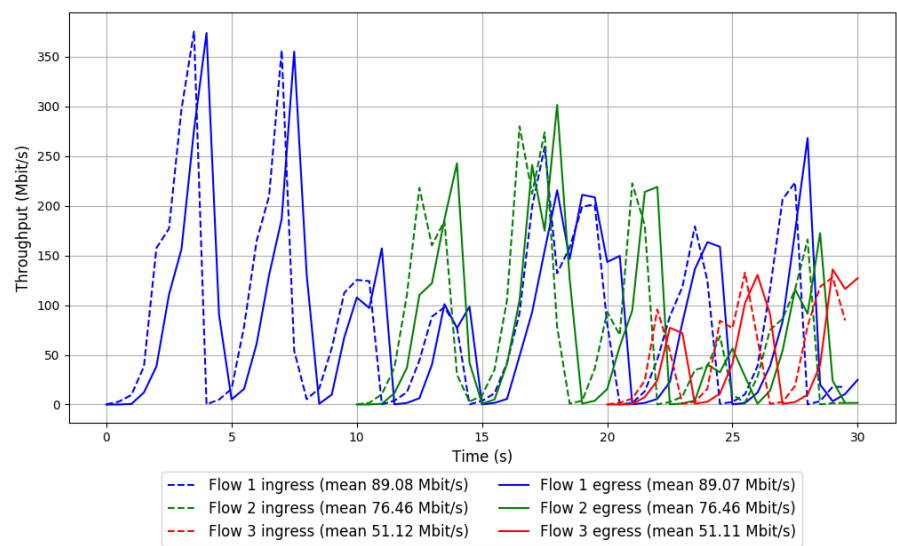


Run 6: Statistics of Verus

Start at: 2018-06-05 10:32:15  
End at: 2018-06-05 10:32:45  
Local clock offset: -0.076 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2018-06-05 13:50:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 156.14 Mbit/s  
95th percentile per-packet one-way delay: 134.467 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 89.07 Mbit/s  
95th percentile per-packet one-way delay: 132.238 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 76.46 Mbit/s  
95th percentile per-packet one-way delay: 152.258 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 51.11 Mbit/s  
95th percentile per-packet one-way delay: 121.348 ms  
Loss rate: 0.00%

Run 6: Report of Verus — Data Link



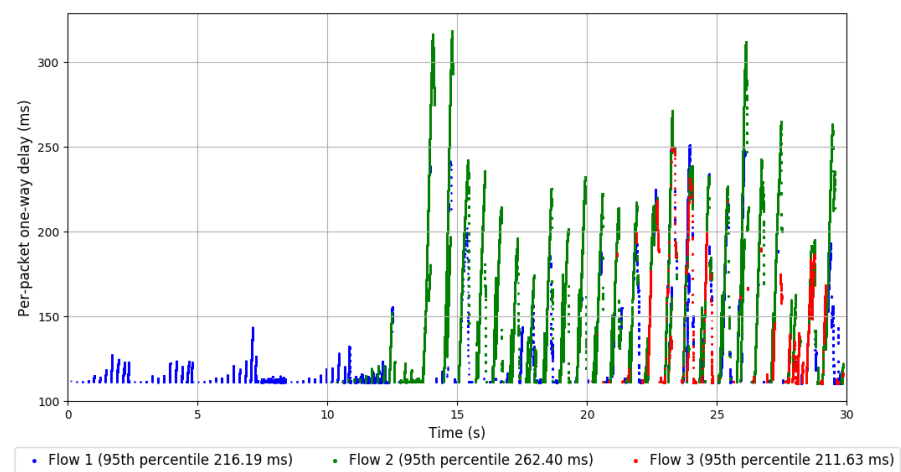
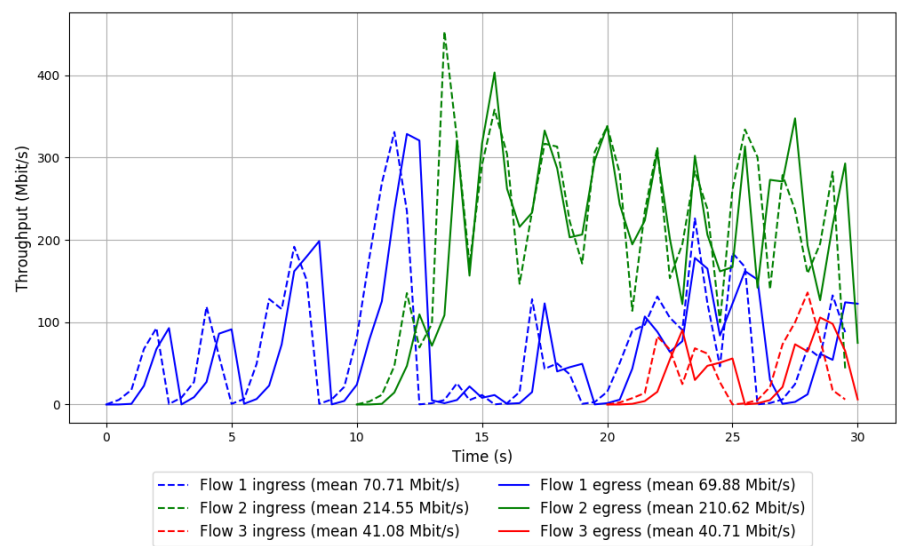
Run 7: Statistics of Verus

Start at: 2018-06-05 10:56:07  
End at: 2018-06-05 10:56:37  
Local clock offset: -0.157 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2018-06-05 13:50:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 222.75 Mbit/s  
95th percentile per-packet one-way delay: 246.720 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 69.88 Mbit/s  
95th percentile per-packet one-way delay: 216.186 ms  
Loss rate: 1.18%  
-- Flow 2:  
Average throughput: 210.62 Mbit/s  
95th percentile per-packet one-way delay: 262.403 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 40.71 Mbit/s  
95th percentile per-packet one-way delay: 211.634 ms  
Loss rate: 0.85%



Run 7: Report of Verus — Data Link

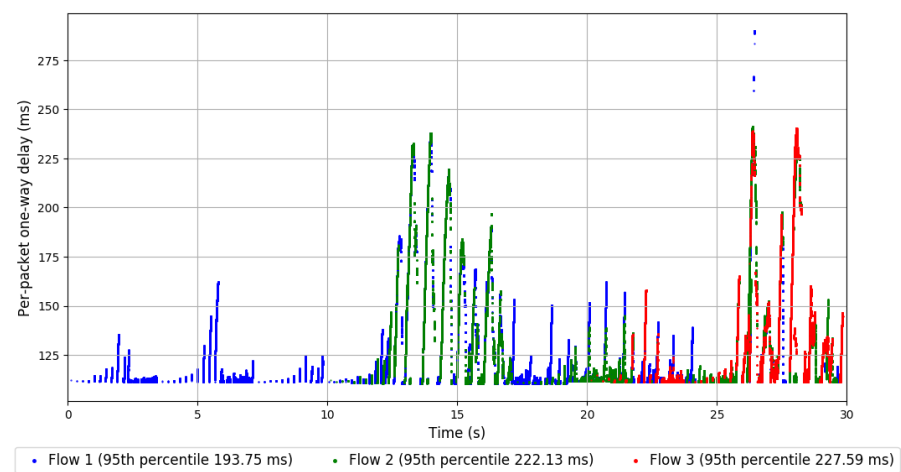
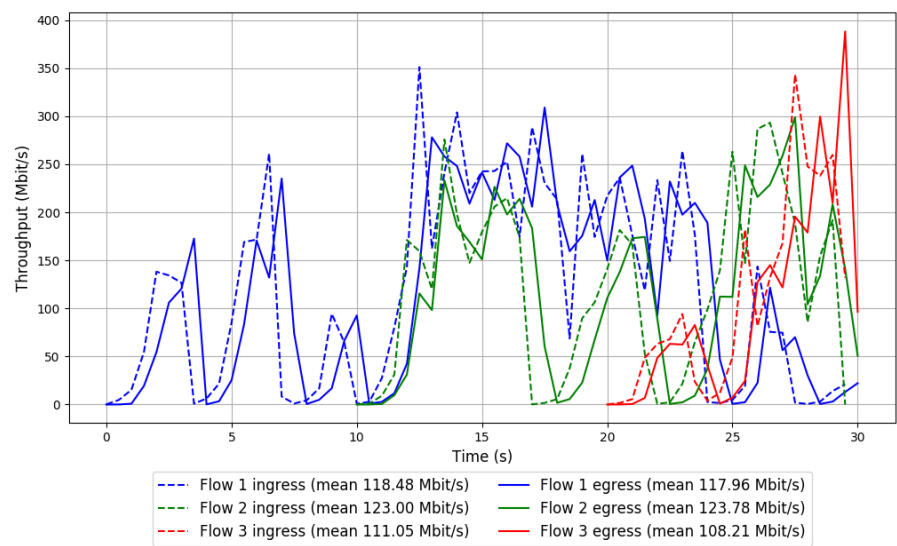


Run 8: Statistics of Verus

Start at: 2018-06-05 11:19:54  
End at: 2018-06-05 11:20:24  
Local clock offset: -0.026 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-05 13:51:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 233.59 Mbit/s  
95th percentile per-packet one-way delay: 212.644 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 117.96 Mbit/s  
95th percentile per-packet one-way delay: 193.748 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 123.78 Mbit/s  
95th percentile per-packet one-way delay: 222.135 ms  
Loss rate: 0.55%  
-- Flow 3:  
Average throughput: 108.21 Mbit/s  
95th percentile per-packet one-way delay: 227.594 ms  
Loss rate: 2.52%

Run 8: Report of Verus — Data Link

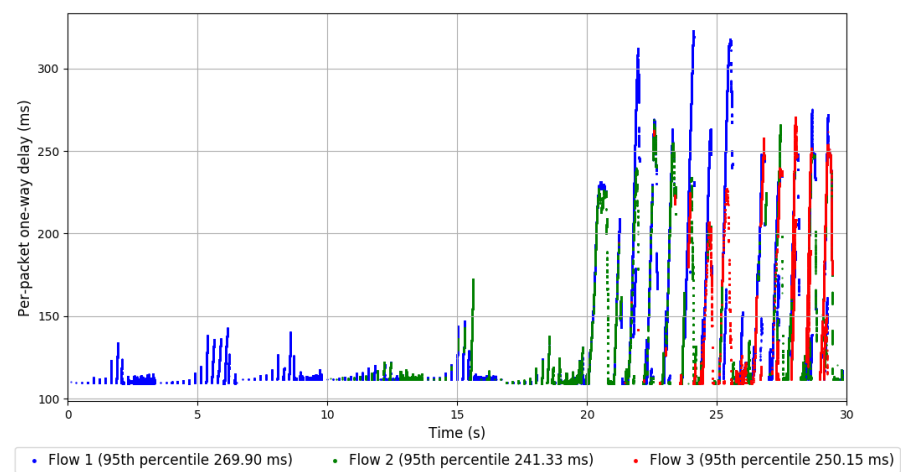
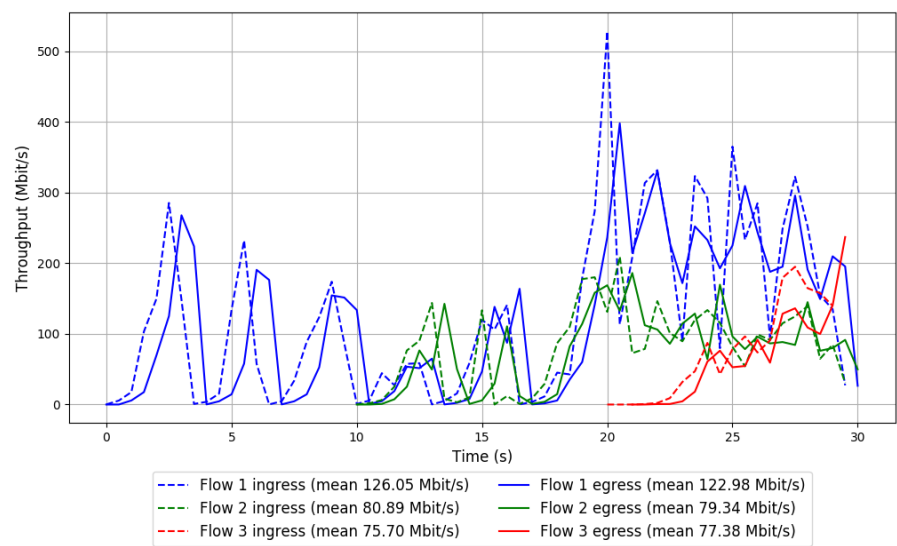


Run 9: Statistics of Verus

Start at: 2018-06-05 11:43:38  
End at: 2018-06-05 11:44:08  
Local clock offset: 0.124 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-06-05 13:51:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 196.97 Mbit/s  
95th percentile per-packet one-way delay: 256.294 ms  
Loss rate: 3.07%  
-- Flow 1:  
Average throughput: 122.98 Mbit/s  
95th percentile per-packet one-way delay: 269.897 ms  
Loss rate: 2.44%  
-- Flow 2:  
Average throughput: 79.34 Mbit/s  
95th percentile per-packet one-way delay: 241.334 ms  
Loss rate: 1.93%  
-- Flow 3:  
Average throughput: 77.38 Mbit/s  
95th percentile per-packet one-way delay: 250.151 ms  
Loss rate: 9.06%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-05 12:07:21

End at: 2018-06-05 12:07:51

Local clock offset: -0.318 ms

Remote clock offset: -0.41 ms

# Below is generated by plot.py at 2018-06-05 13:52:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 188.92 Mbit/s

95th percentile per-packet one-way delay: 181.417 ms

Loss rate: 0.11%

-- Flow 1:

Average throughput: 102.80 Mbit/s

95th percentile per-packet one-way delay: 162.141 ms

Loss rate: 0.09%

-- Flow 2:

Average throughput: 70.40 Mbit/s

95th percentile per-packet one-way delay: 177.304 ms

Loss rate: 0.15%

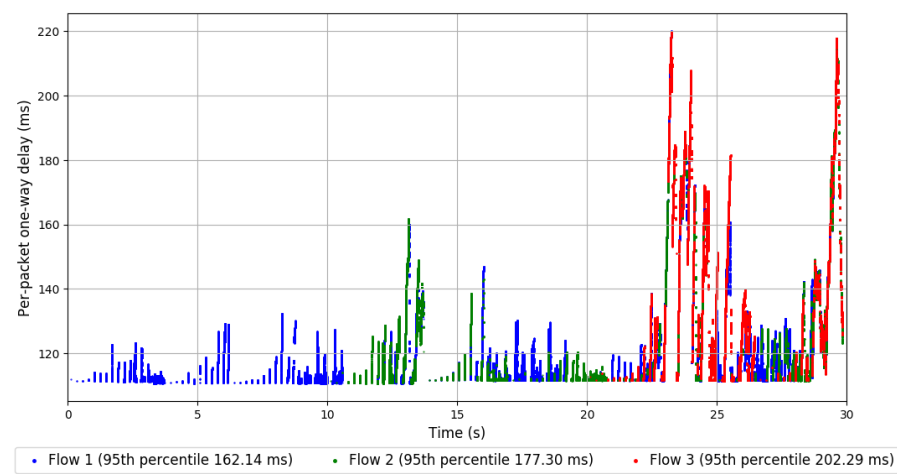
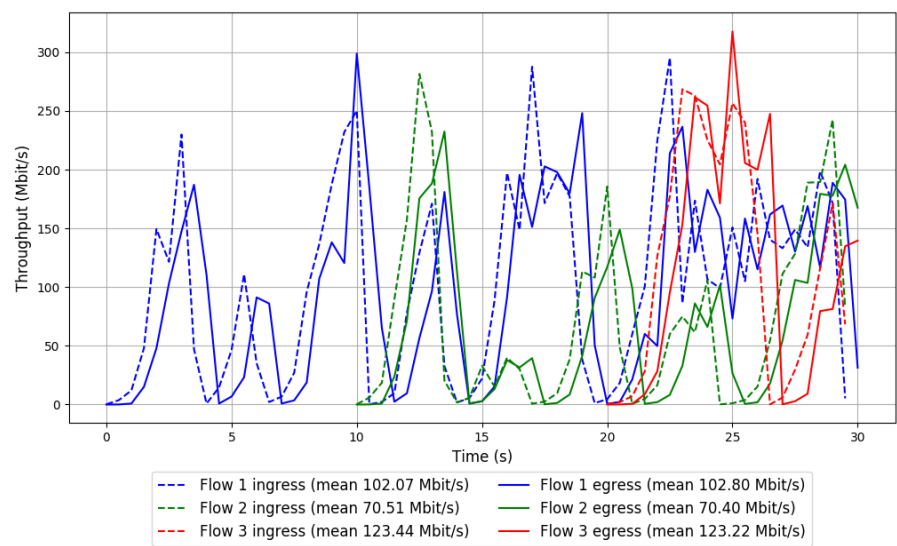
-- Flow 3:

Average throughput: 123.22 Mbit/s

95th percentile per-packet one-way delay: 202.289 ms

Loss rate: 0.14%

Run 10: Report of Verus — Data Link



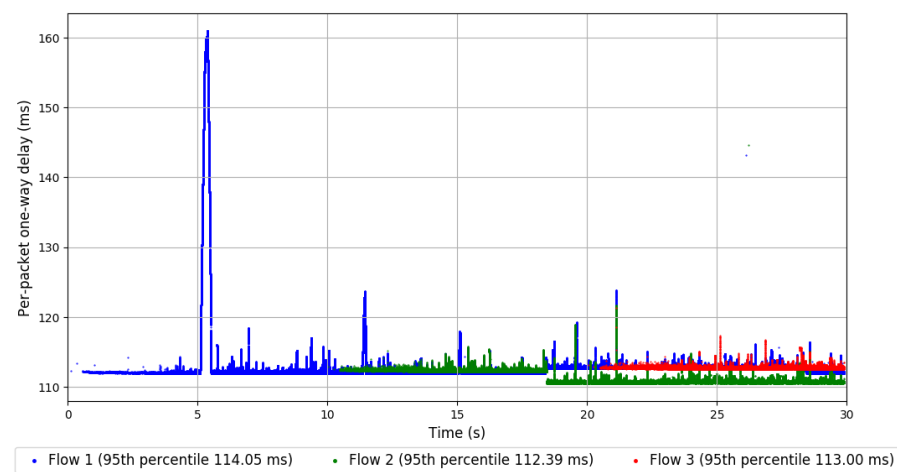
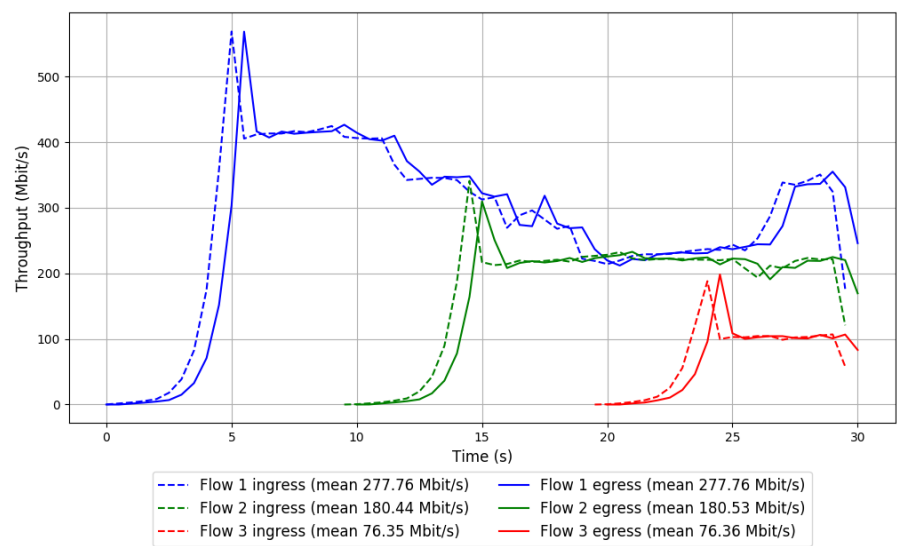
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-05 08:26:16  
End at: 2018-06-05 08:26:46  
Local clock offset: -0.14 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-06-05 13:56:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 423.47 Mbit/s  
95th percentile per-packet one-way delay: 113.095 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 277.76 Mbit/s  
95th percentile per-packet one-way delay: 114.045 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 180.53 Mbit/s  
95th percentile per-packet one-way delay: 112.386 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 76.36 Mbit/s  
95th percentile per-packet one-way delay: 113.005 ms  
Loss rate: 0.00%



Run 1: Report of PCC-Vivace — Data Link

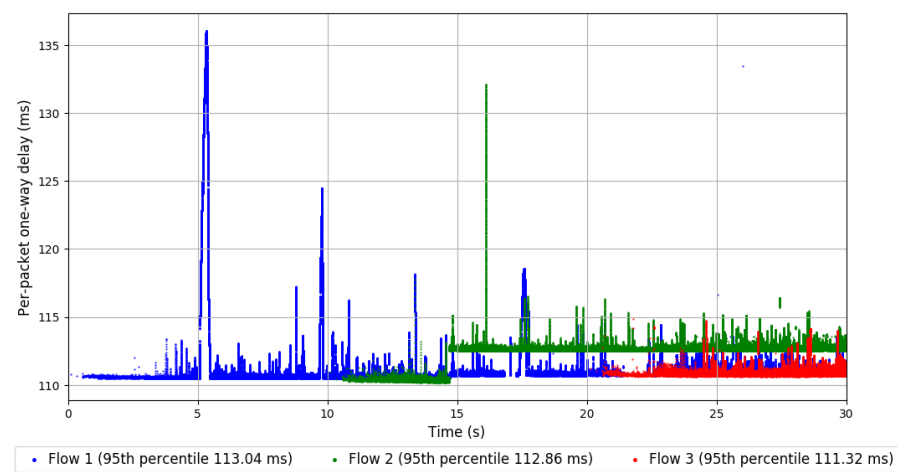
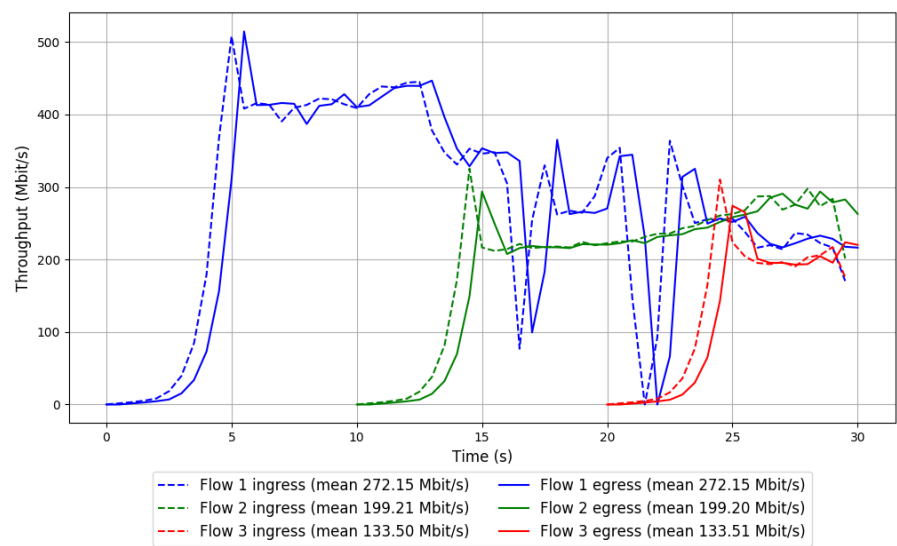


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-05 08:49:40  
End at: 2018-06-05 08:50:10  
Local clock offset: -0.08 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-06-05 13:57:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 448.54 Mbit/s  
95th percentile per-packet one-way delay: 112.827 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 272.15 Mbit/s  
95th percentile per-packet one-way delay: 113.044 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 199.20 Mbit/s  
95th percentile per-packet one-way delay: 112.863 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 133.51 Mbit/s  
95th percentile per-packet one-way delay: 111.317 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-05 09:13:37

End at: 2018-06-05 09:14:07

Local clock offset: -0.289 ms

Remote clock offset: 0.347 ms

# Below is generated by plot.py at 2018-06-05 13:57:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 448.68 Mbit/s

95th percentile per-packet one-way delay: 114.061 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 268.61 Mbit/s

95th percentile per-packet one-way delay: 115.374 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 201.04 Mbit/s

95th percentile per-packet one-way delay: 113.929 ms

Loss rate: 0.01%

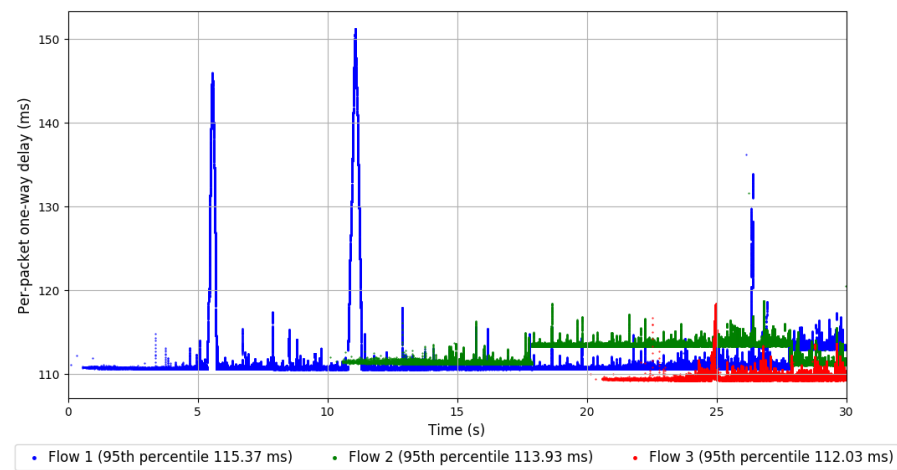
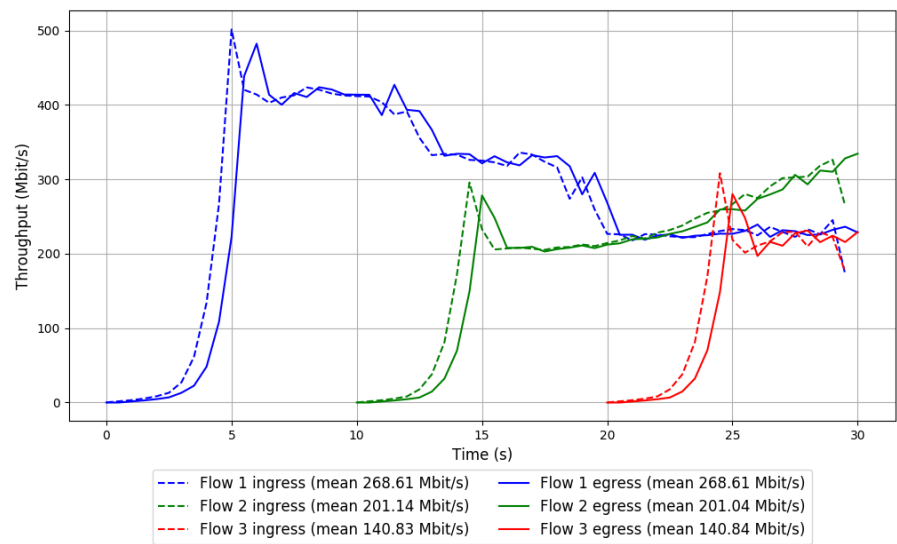
-- Flow 3:

Average throughput: 140.84 Mbit/s

95th percentile per-packet one-way delay: 112.034 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-05 09:37:33

End at: 2018-06-05 09:38:03

Local clock offset: -0.213 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-05 13:57:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 431.77 Mbit/s

95th percentile per-packet one-way delay: 113.660 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 265.98 Mbit/s

95th percentile per-packet one-way delay: 113.899 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 178.09 Mbit/s

95th percentile per-packet one-way delay: 113.282 ms

Loss rate: 0.00%

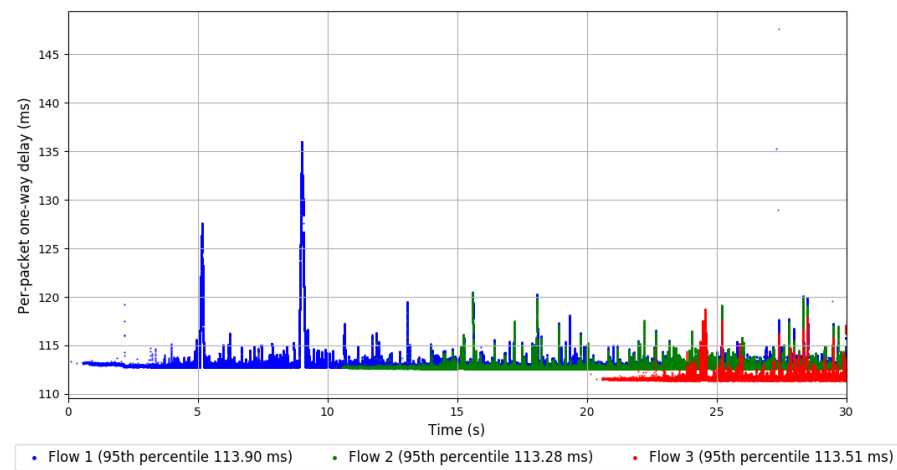
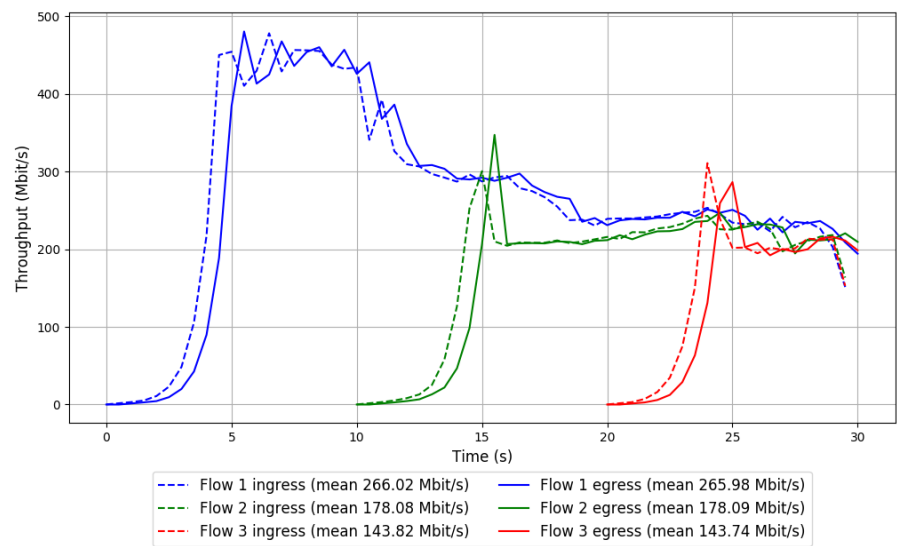
-- Flow 3:

Average throughput: 143.74 Mbit/s

95th percentile per-packet one-way delay: 113.506 ms

Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-05 10:01:08

End at: 2018-06-05 10:01:38

Local clock offset: -0.269 ms

Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2018-06-05 13:57:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 374.88 Mbit/s

95th percentile per-packet one-way delay: 113.262 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 207.67 Mbit/s

95th percentile per-packet one-way delay: 111.491 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 183.01 Mbit/s

95th percentile per-packet one-way delay: 113.517 ms

Loss rate: 0.00%

-- Flow 3:

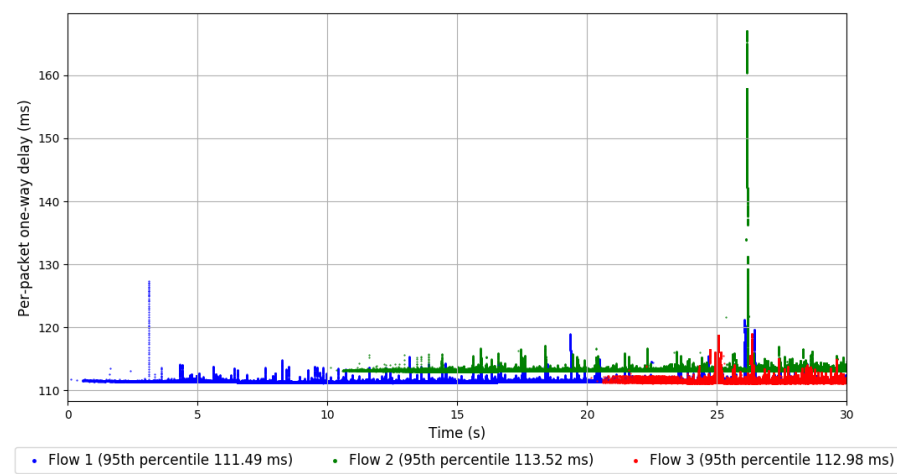
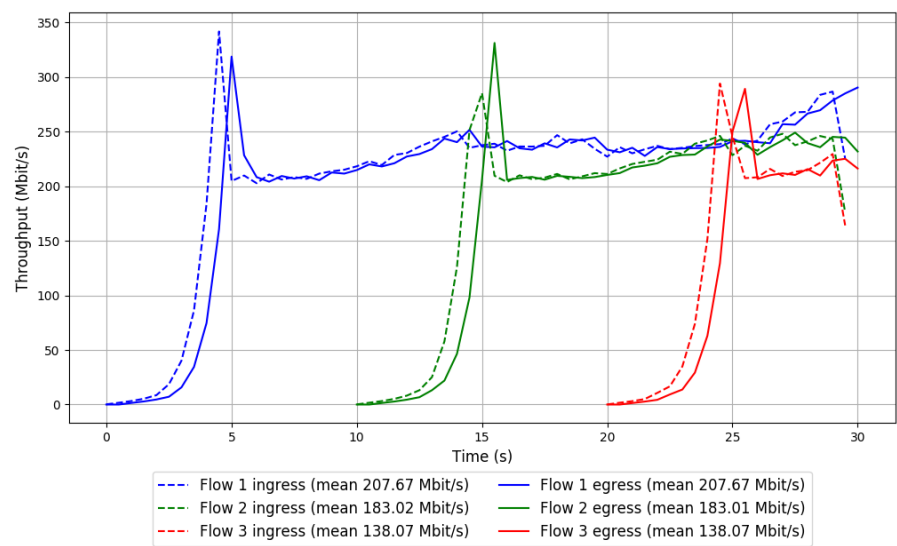
Average throughput: 138.07 Mbit/s

95th percentile per-packet one-way delay: 112.984 ms

Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link

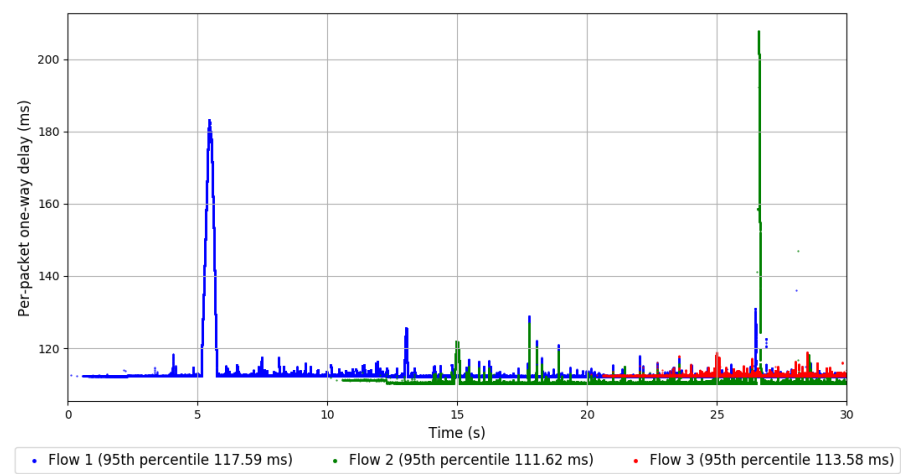
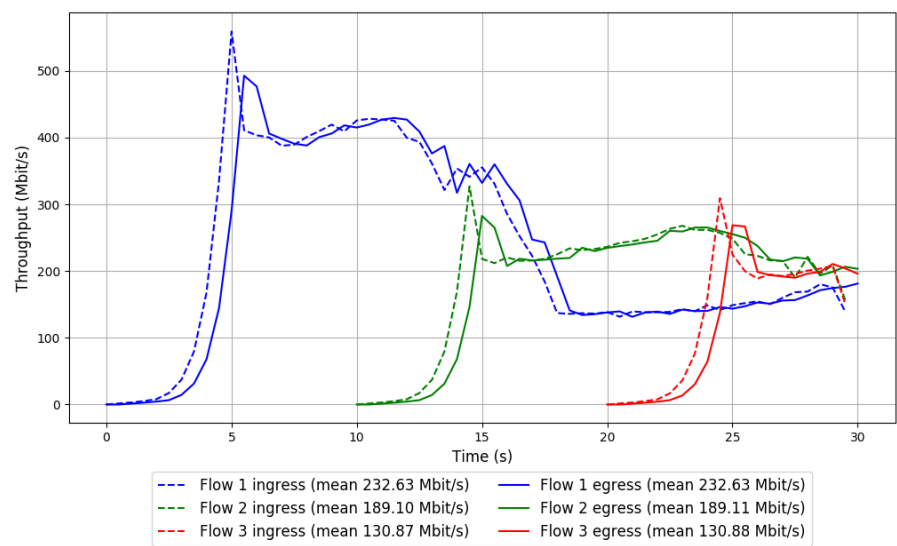


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-05 10:24:53  
End at: 2018-06-05 10:25:23  
Local clock offset: -0.003 ms  
Remote clock offset: -0.466 ms

# Below is generated by plot.py at 2018-06-05 13:58:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 401.49 Mbit/s  
95th percentile per-packet one-way delay: 114.625 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 232.63 Mbit/s  
95th percentile per-packet one-way delay: 117.595 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 189.11 Mbit/s  
95th percentile per-packet one-way delay: 111.624 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 130.88 Mbit/s  
95th percentile per-packet one-way delay: 113.575 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

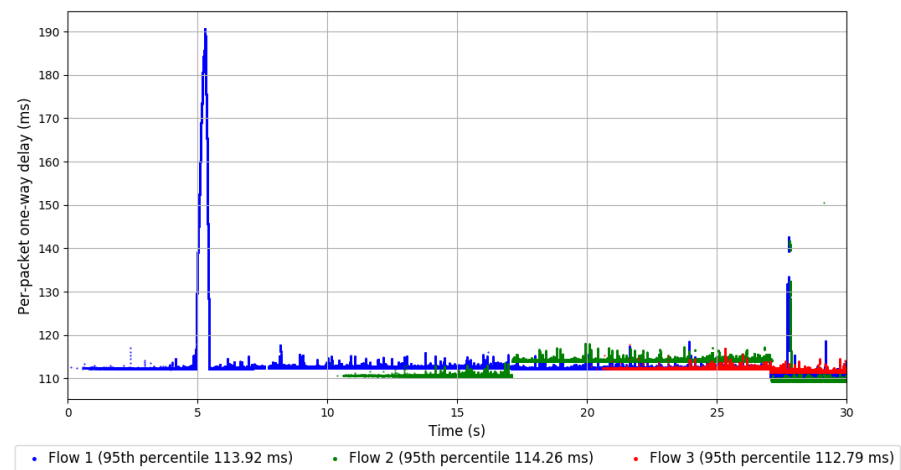
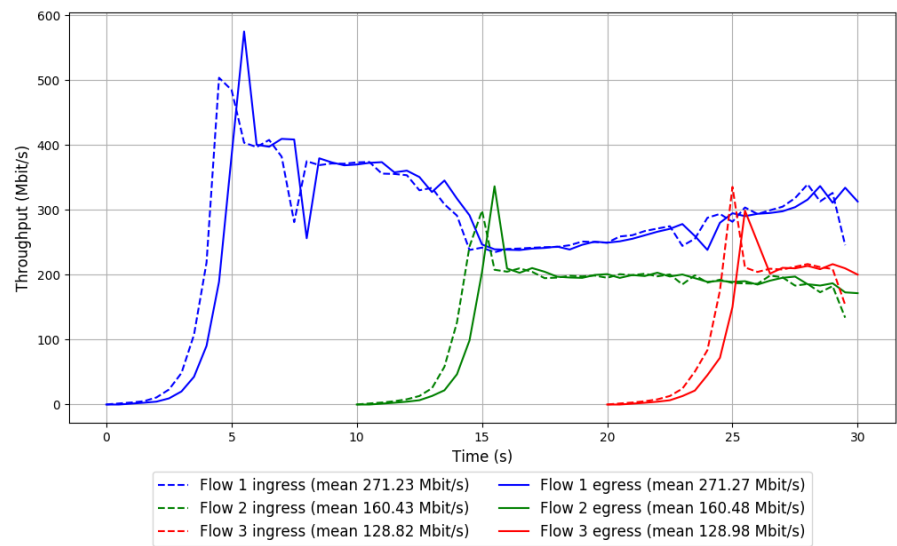


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-05 10:48:38  
End at: 2018-06-05 10:49:08  
Local clock offset: -0.412 ms  
Remote clock offset: -0.458 ms

# Below is generated by plot.py at 2018-06-05 13:58:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 420.39 Mbit/s  
95th percentile per-packet one-way delay: 114.205 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 271.27 Mbit/s  
95th percentile per-packet one-way delay: 113.919 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 160.48 Mbit/s  
95th percentile per-packet one-way delay: 114.258 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 128.98 Mbit/s  
95th percentile per-packet one-way delay: 112.792 ms  
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

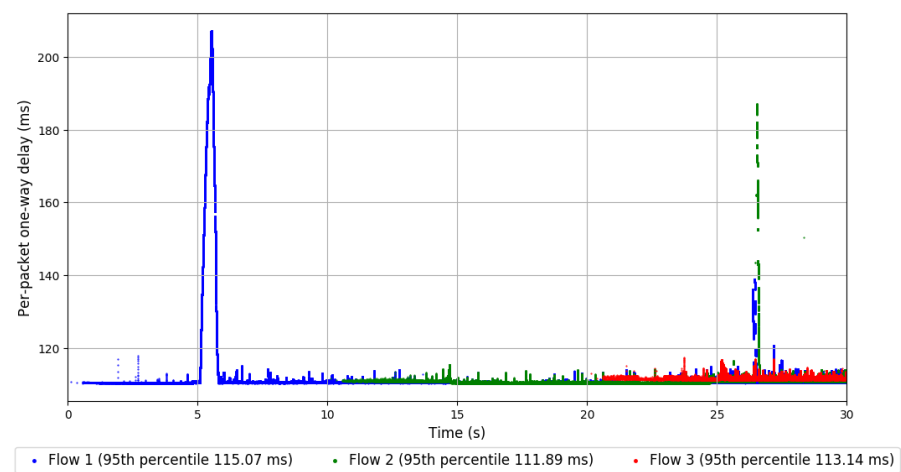
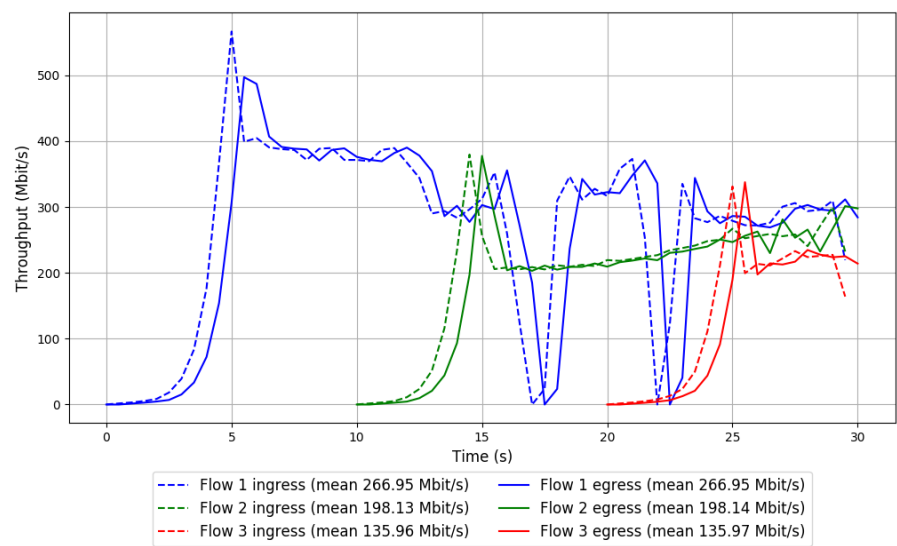


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-05 11:12:30  
End at: 2018-06-05 11:13:00  
Local clock offset: 0.148 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-05 13:58:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 443.50 Mbit/s  
95th percentile per-packet one-way delay: 112.953 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 266.95 Mbit/s  
95th percentile per-packet one-way delay: 115.070 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 198.14 Mbit/s  
95th percentile per-packet one-way delay: 111.894 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 135.97 Mbit/s  
95th percentile per-packet one-way delay: 113.136 ms  
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



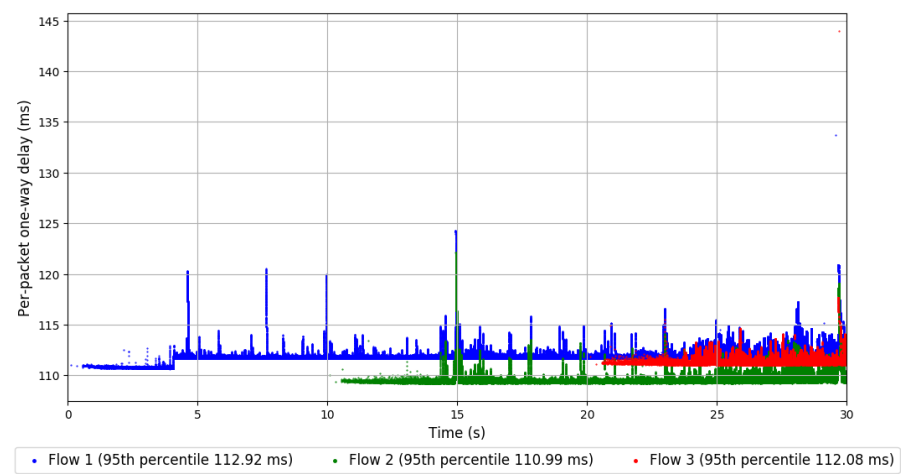
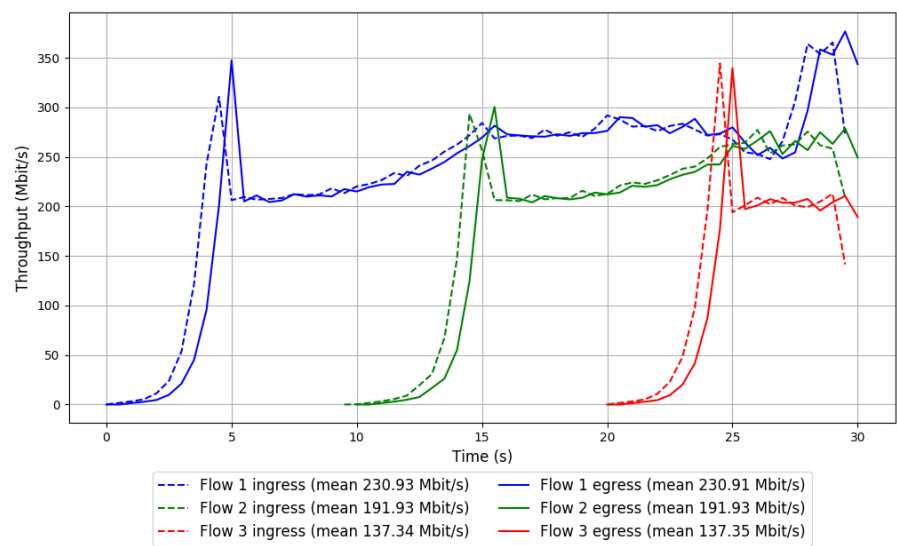
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-05 11:36:21  
End at: 2018-06-05 11:36:51  
Local clock offset: -0.18 ms  
Remote clock offset: -0.451 ms

# Below is generated by plot.py at 2018-06-05 13:59:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 403.99 Mbit/s  
95th percentile per-packet one-way delay: 112.589 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 230.91 Mbit/s  
95th percentile per-packet one-way delay: 112.921 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 191.93 Mbit/s  
95th percentile per-packet one-way delay: 110.991 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 137.35 Mbit/s  
95th percentile per-packet one-way delay: 112.075 ms  
Loss rate: 0.00%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-05 11:59:50

End at: 2018-06-05 12:00:20

Local clock offset: -0.145 ms

Remote clock offset: -0.41 ms

# Below is generated by plot.py at 2018-06-05 13:59:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 491.52 Mbit/s

95th percentile per-packet one-way delay: 112.894 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 309.98 Mbit/s

95th percentile per-packet one-way delay: 112.155 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 201.09 Mbit/s

95th percentile per-packet one-way delay: 113.405 ms

Loss rate: 0.00%

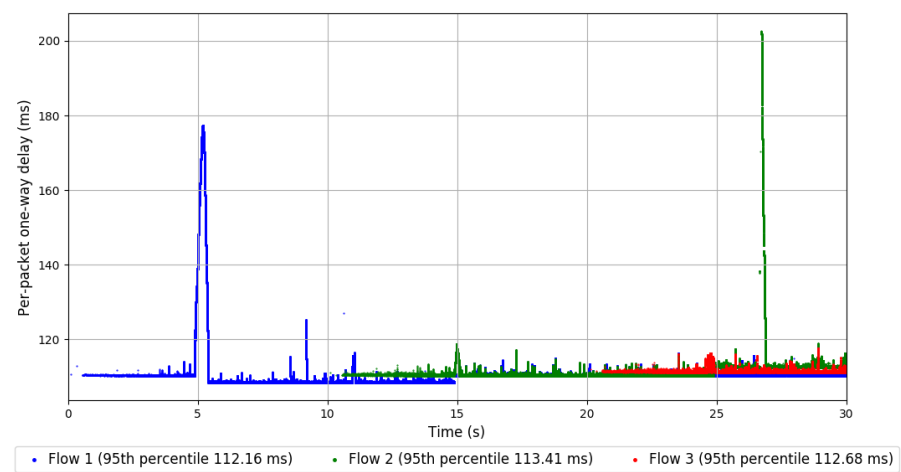
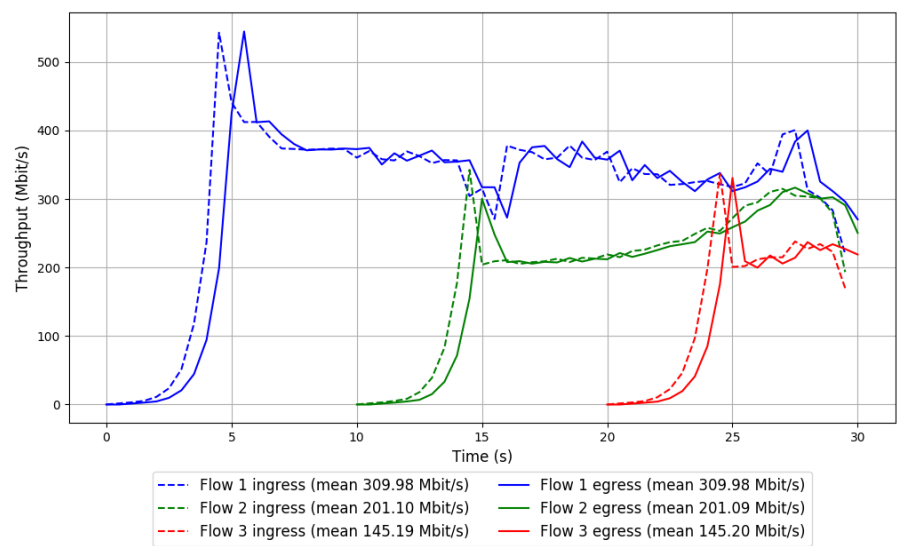
-- Flow 3:

Average throughput: 145.20 Mbit/s

95th percentile per-packet one-way delay: 112.681 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

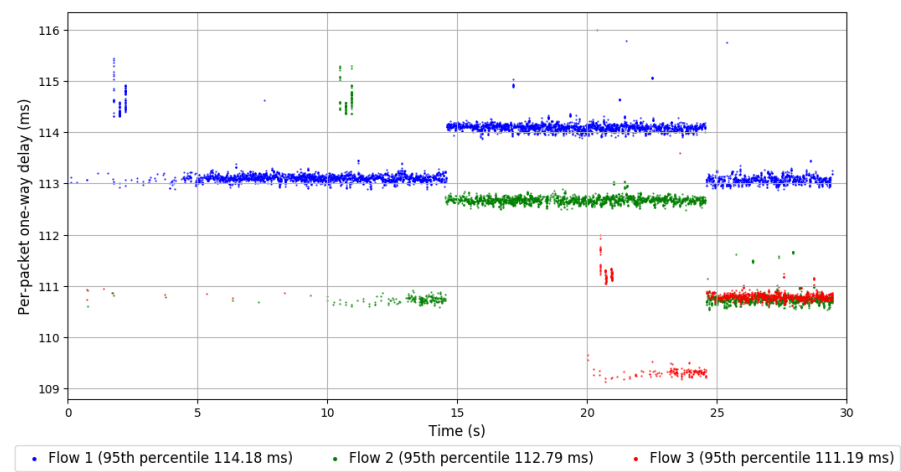
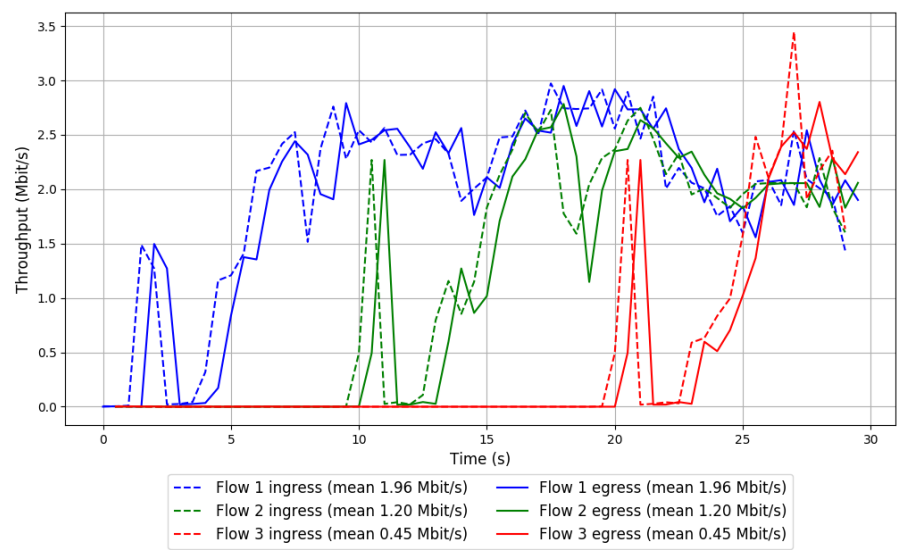


Run 1: Statistics of WebRTC media

Start at: 2018-06-05 08:30:50  
End at: 2018-06-05 08:31:20  
Local clock offset: -0.377 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-06-05 13:59:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.58 Mbit/s  
95th percentile per-packet one-way delay: 114.154 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 114.178 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 112.794 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 111.192 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

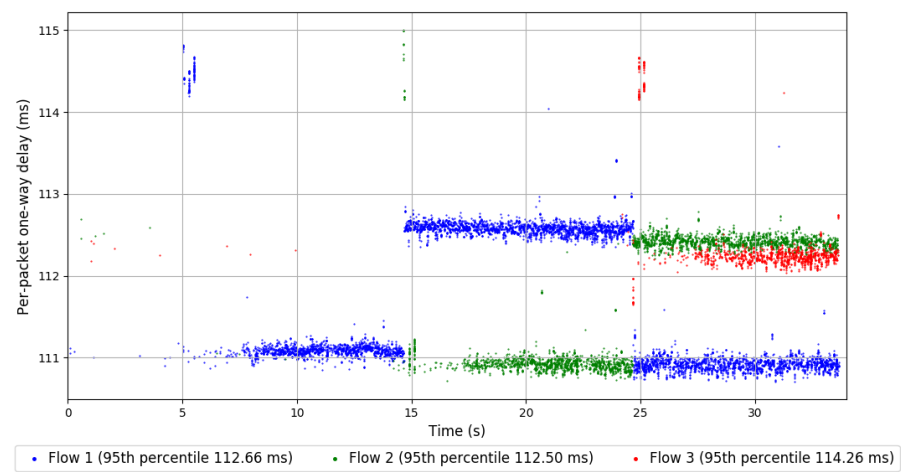
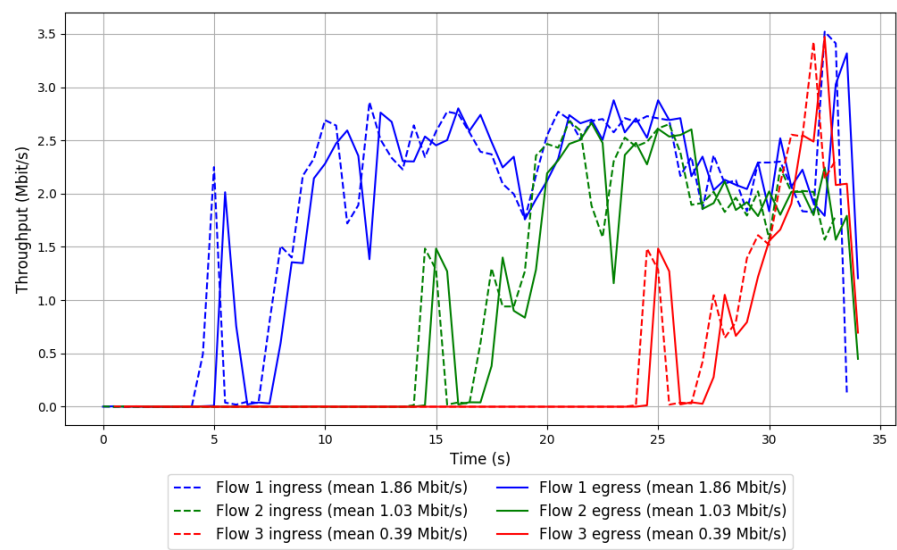


Run 2: Statistics of WebRTC media

Start at: 2018-06-05 08:54:24  
End at: 2018-06-05 08:54:54  
Local clock offset: -0.183 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-06-05 13:59:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.25 Mbit/s  
95th percentile per-packet one-way delay: 112.646 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.86 Mbit/s  
95th percentile per-packet one-way delay: 112.661 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.03 Mbit/s  
95th percentile per-packet one-way delay: 112.505 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 114.258 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-05 09:18:17

End at: 2018-06-05 09:18:47

Local clock offset: -0.239 ms

Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2018-06-05 13:59:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.27 Mbit/s

95th percentile per-packet one-way delay: 115.526 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 113.521 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.04 Mbit/s

95th percentile per-packet one-way delay: 115.583 ms

Loss rate: 0.00%

-- Flow 3:

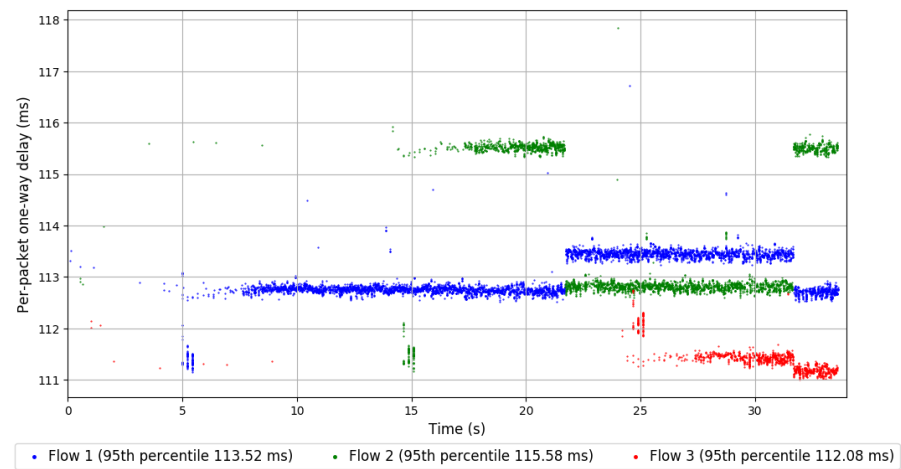
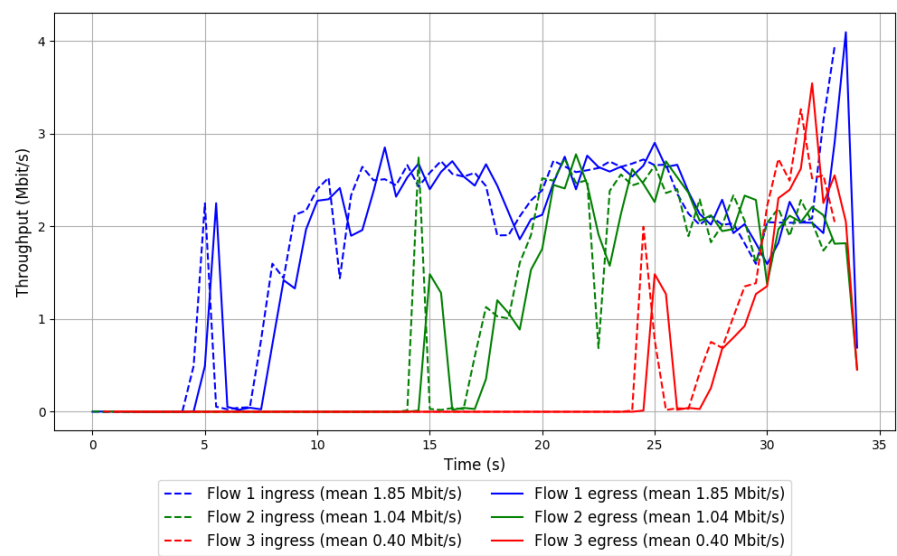
Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 112.083 ms

Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-05 09:42:10

End at: 2018-06-05 09:42:40

Local clock offset: 0.049 ms

Remote clock offset: 0.386 ms

# Below is generated by plot.py at 2018-06-05 13:59:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 115.044 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.80 Mbit/s

95th percentile per-packet one-way delay: 109.285 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 112.617 ms

Loss rate: 0.00%

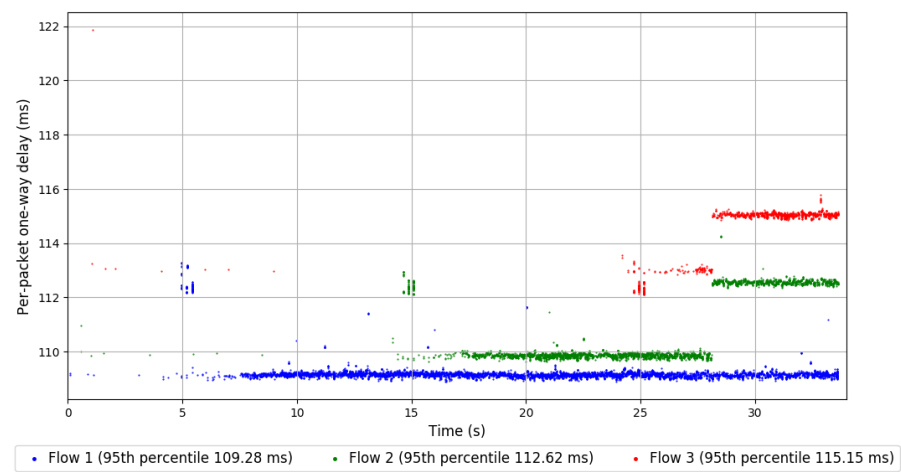
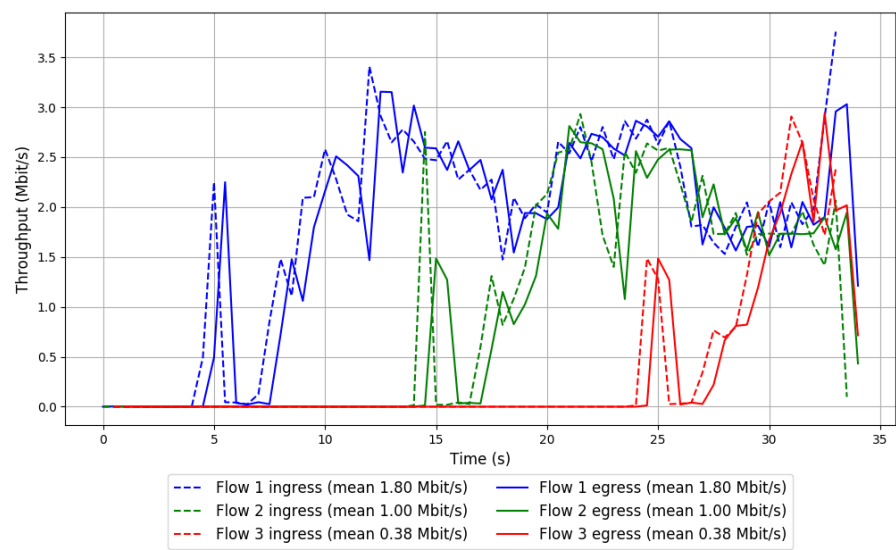
-- Flow 3:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 115.147 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

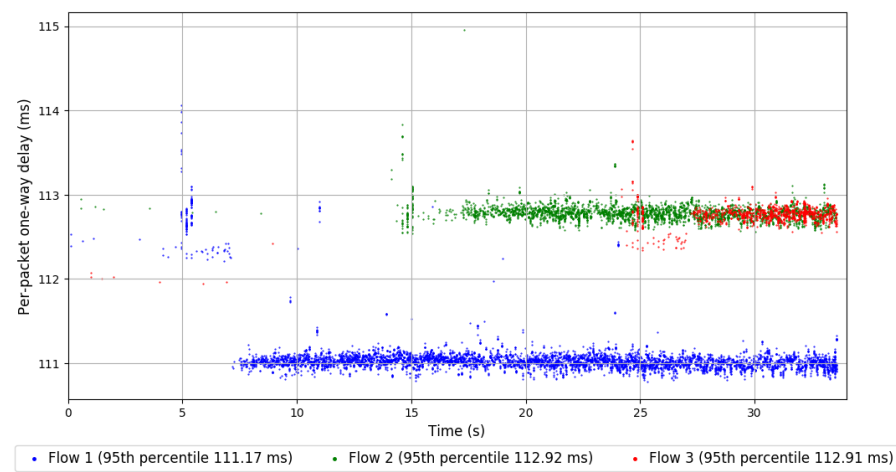
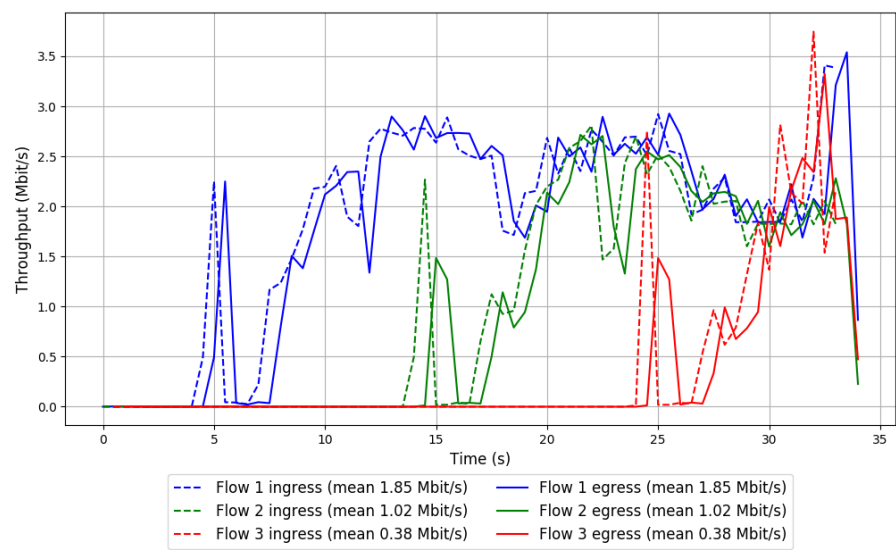


Run 5: Statistics of WebRTC media

Start at: 2018-06-05 10:05:41  
End at: 2018-06-05 10:06:11  
Local clock offset: -0.269 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-06-05 13:59:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.22 Mbit/s  
95th percentile per-packet one-way delay: 112.866 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.85 Mbit/s  
95th percentile per-packet one-way delay: 111.172 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.02 Mbit/s  
95th percentile per-packet one-way delay: 112.915 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 112.912 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-05 10:29:30

End at: 2018-06-05 10:30:00

Local clock offset: 0.146 ms

Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2018-06-05 13:59:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.25 Mbit/s

95th percentile per-packet one-way delay: 113.129 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 113.044 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.05 Mbit/s

95th percentile per-packet one-way delay: 113.179 ms

Loss rate: 0.00%

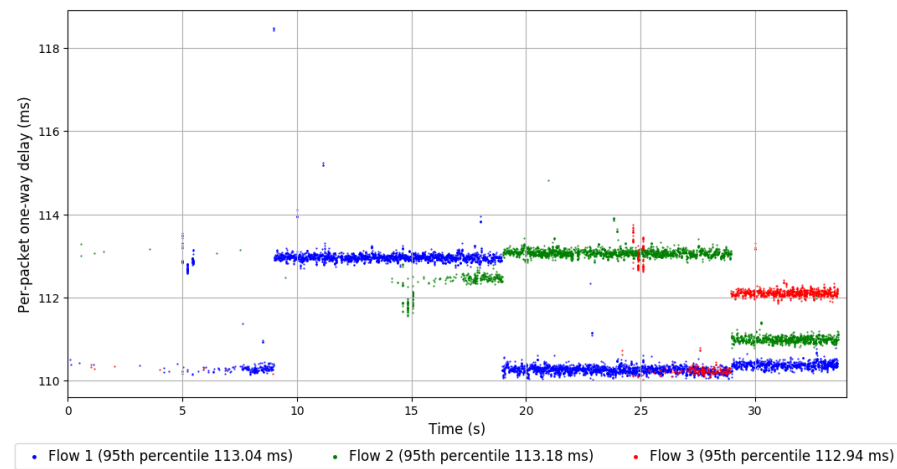
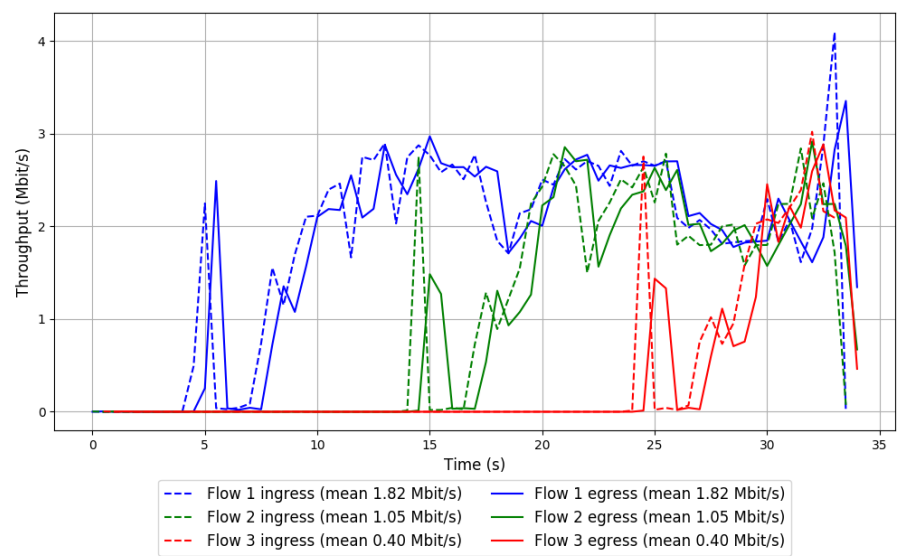
-- Flow 3:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 112.944 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



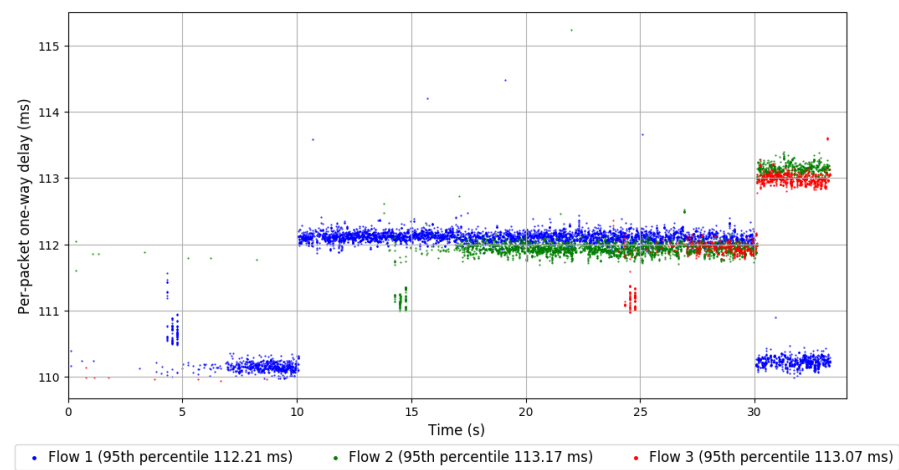
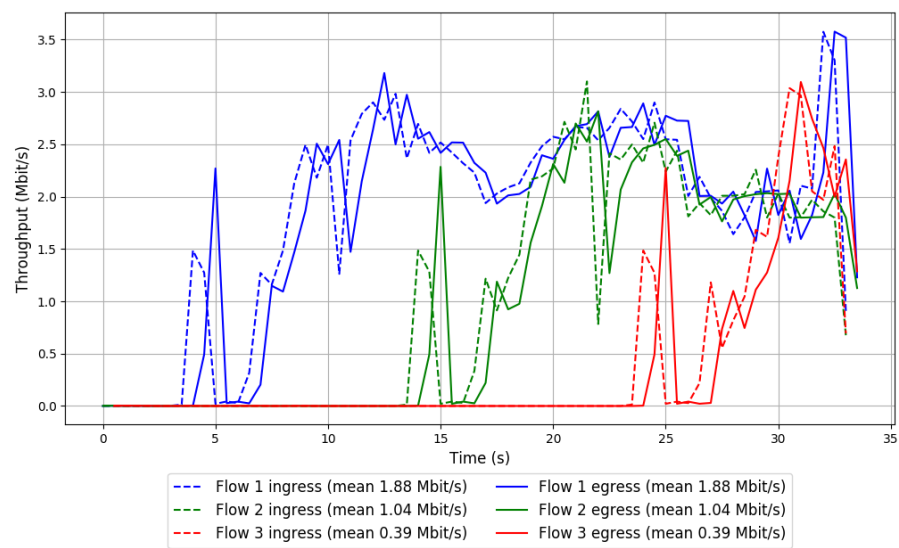
Run 7: Statistics of WebRTC media

Start at: 2018-06-05 10:53:18  
End at: 2018-06-05 10:53:48  
Local clock offset: -0.401 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-05 13:59:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.29 Mbit/s  
95th percentile per-packet one-way delay: 113.081 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 112.213 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.04 Mbit/s  
95th percentile per-packet one-way delay: 113.175 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 113.068 ms  
Loss rate: 0.01%



Run 7: Report of WebRTC media — Data Link

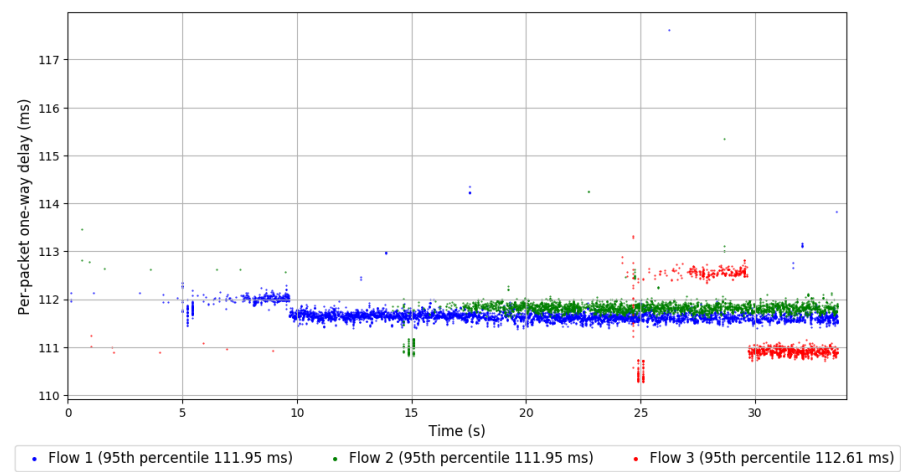
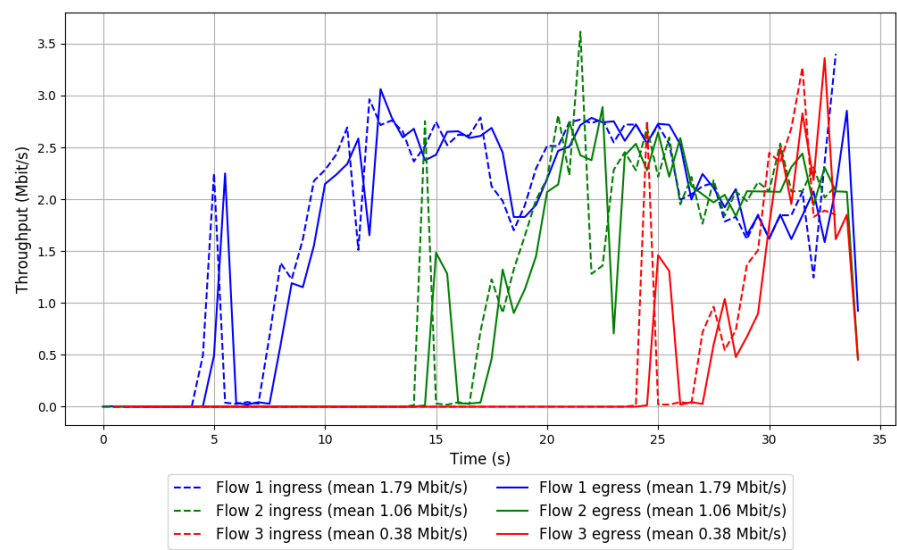


Run 8: Statistics of WebRTC media

Start at: 2018-06-05 11:17:09  
End at: 2018-06-05 11:17:39  
Local clock offset: -0.54 ms  
Remote clock offset: -0.418 ms

# Below is generated by plot.py at 2018-06-05 13:59:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.21 Mbit/s  
95th percentile per-packet one-way delay: 112.002 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.79 Mbit/s  
95th percentile per-packet one-way delay: 111.951 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.06 Mbit/s  
95th percentile per-packet one-way delay: 111.952 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 112.610 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

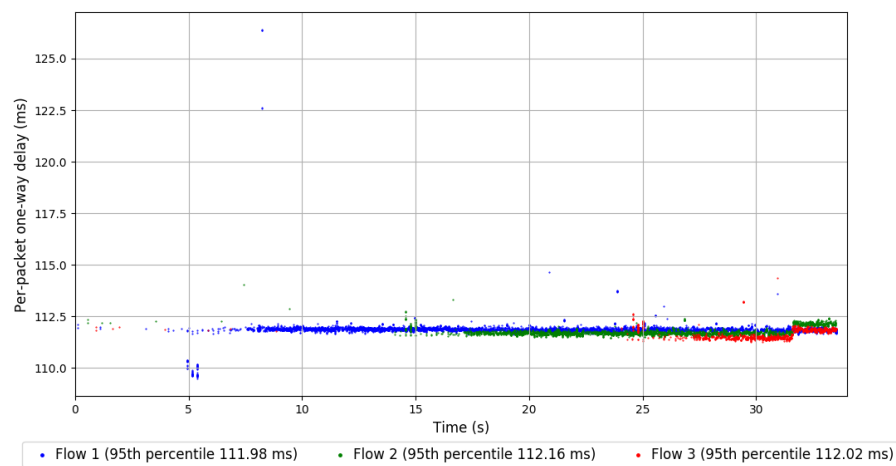
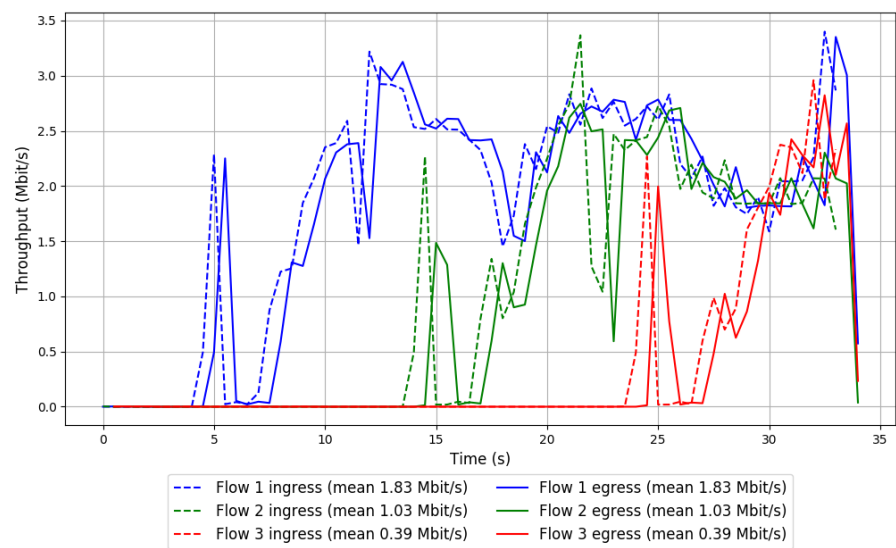


Run 9: Statistics of WebRTC media

Start at: 2018-06-05 11:40:57  
End at: 2018-06-05 11:41:27  
Local clock offset: -0.038 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-05 13:59:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.22 Mbit/s  
95th percentile per-packet one-way delay: 112.063 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.83 Mbit/s  
95th percentile per-packet one-way delay: 111.984 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.03 Mbit/s  
95th percentile per-packet one-way delay: 112.164 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 112.017 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-05 12:04:35  
End at: 2018-06-05 12:05:05  
Local clock offset: 0.213 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-06-05 13:59:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.15 Mbit/s  
95th percentile per-packet one-way delay: 112.133 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 112.046 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.99 Mbit/s  
95th percentile per-packet one-way delay: 111.165 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 112.281 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

