

Pantheon Report

Generated at 2018-05-22 18:31:08 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

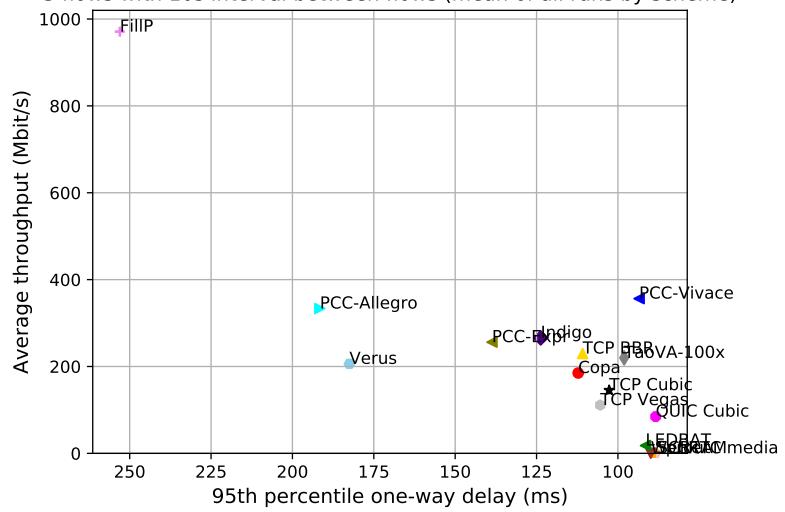
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

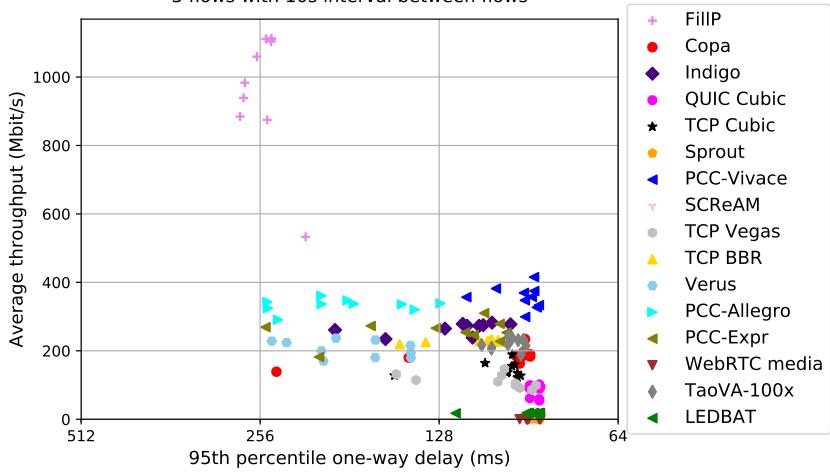
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
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
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Iowa Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



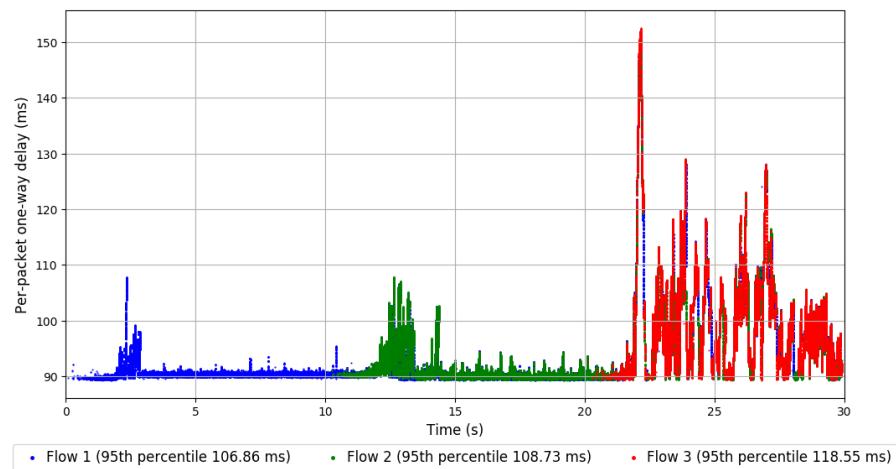
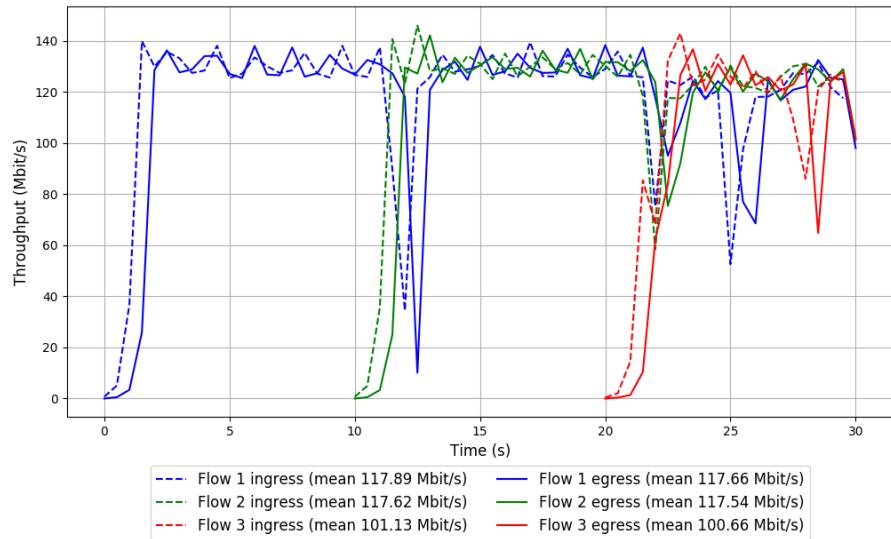
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	119.03	114.98	104.82	107.88	116.39	107.53	0.64	0.99	1.96
Copa	10	102.28	91.88	67.39	98.26	111.46	119.79	0.35	0.63	2.31
TCP Cubic	10	87.44	70.85	33.45	101.22	103.28	99.10	0.61	1.36	5.01
FillP	10	545.50	471.62	344.26	252.63	219.53	194.45	0.79	0.95	2.88
Indigo	10	144.50	131.70	105.35	113.49	125.28	128.54	0.58	0.93	2.23
LEDBAT	10	11.69	7.72	3.65	90.68	91.92	91.84	1.17	1.76	3.61
PCC-Allegro	10	262.78	99.26	15.02	191.52	190.76	183.63	0.97	1.33	2.22
PCC-Expr	10	185.77	84.22	44.32	137.13	137.90	123.69	0.84	1.18	2.69
QUIC Cubic	10	36.93	47.16	50.03	88.26	88.38	88.32	0.83	1.19	1.68
SCReAM	10	0.22	0.22	0.22	87.80	87.86	87.76	0.54	0.95	1.68
Sprout	10	0.26	0.32	0.35	88.54	88.56	88.56	0.50	0.61	1.19
TaoVA-100x	10	128.09	99.80	77.94	96.08	101.13	103.59	0.43	0.71	2.21
TCP Vegas	10	61.88	56.49	35.82	104.65	99.83	101.51	0.50	0.91	2.73
Verus	10	129.64	87.87	59.73	178.41	179.45	181.80	1.00	1.04	3.65
PCC-Vivace	10	214.99	176.46	74.60	90.16	97.01	98.91	0.68	1.07	2.90
WebRTC media	10	0.05	0.05	0.05	89.53	89.72	90.19	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2018-05-22 13:14:23
End at: 2018-05-22 13:14:53
Local clock offset: 3.459 ms
Remote clock offset: 0.826 ms

# Below is generated by plot.py at 2018-05-22 17:00:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.81 Mbit/s
95th percentile per-packet one-way delay: 109.512 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 117.66 Mbit/s
95th percentile per-packet one-way delay: 106.865 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 117.54 Mbit/s
95th percentile per-packet one-way delay: 108.730 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 100.66 Mbit/s
95th percentile per-packet one-way delay: 118.548 ms
Loss rate: 2.23%
```

Run 1: Report of TCP BBR — Data Link

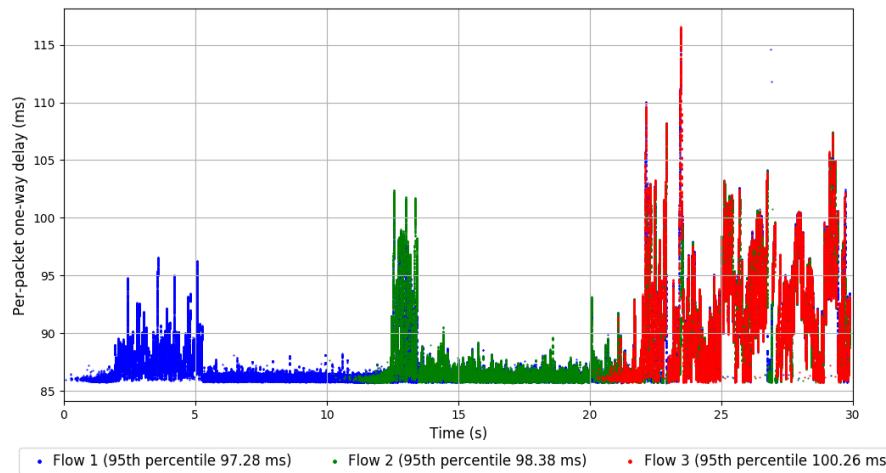
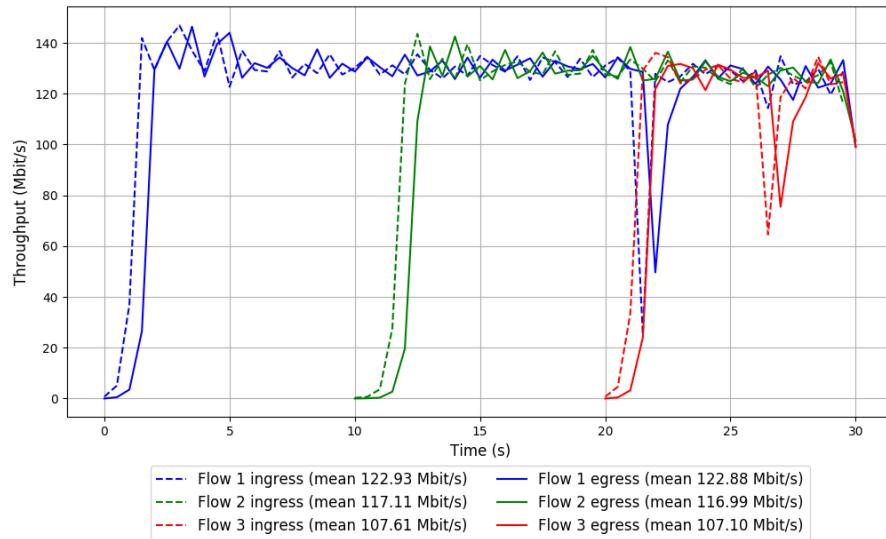


Run 2: Statistics of TCP BBR

```
Start at: 2018-05-22 13:36:55
End at: 2018-05-22 13:37:25
Local clock offset: -0.11 ms
Remote clock offset: 0.891 ms

# Below is generated by plot.py at 2018-05-22 17:00:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 235.69 Mbit/s
95th percentile per-packet one-way delay: 98.352 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 122.88 Mbit/s
95th percentile per-packet one-way delay: 97.285 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 116.99 Mbit/s
95th percentile per-packet one-way delay: 98.377 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 107.10 Mbit/s
95th percentile per-packet one-way delay: 100.264 ms
Loss rate: 2.24%
```

Run 2: Report of TCP BBR — Data Link

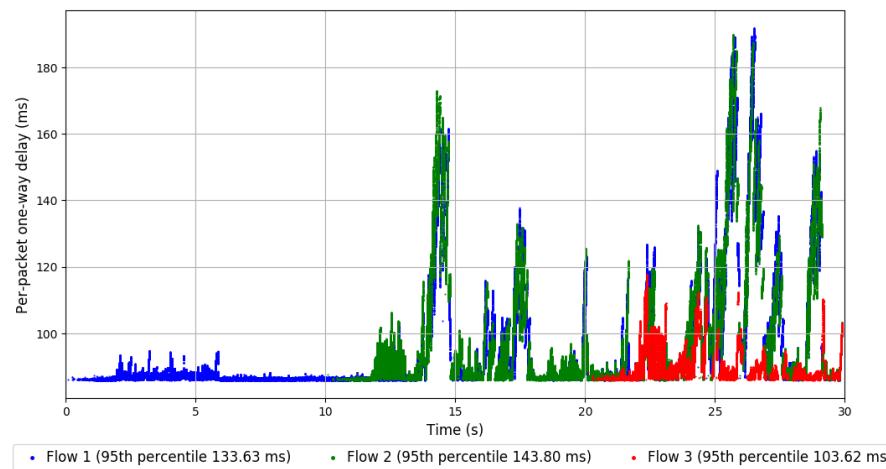
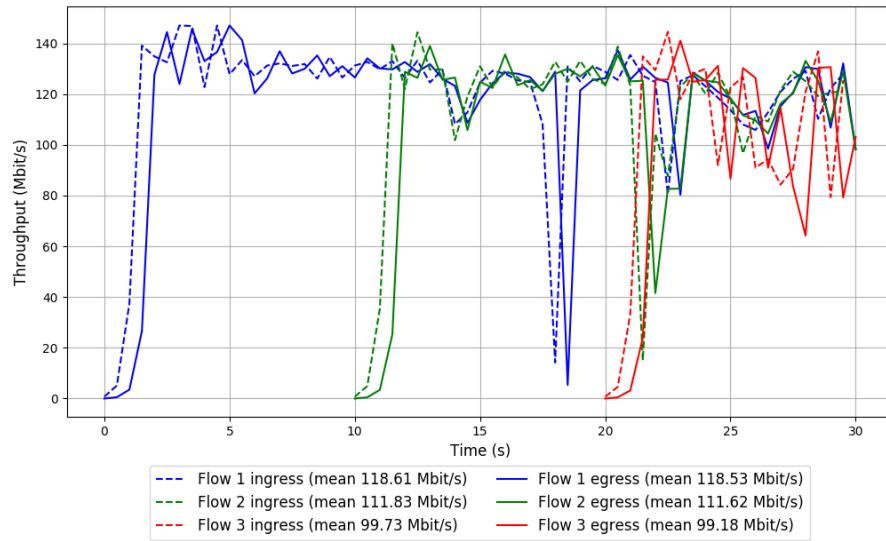


Run 3: Statistics of TCP BBR

```
Start at: 2018-05-22 13:59:36
End at: 2018-05-22 14:00:06
Local clock offset: 0.009 ms
Remote clock offset: 1.042 ms

# Below is generated by plot.py at 2018-05-22 17:00:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 225.23 Mbit/s
95th percentile per-packet one-way delay: 134.848 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 118.53 Mbit/s
95th percentile per-packet one-way delay: 133.631 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 111.62 Mbit/s
95th percentile per-packet one-way delay: 143.798 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 99.18 Mbit/s
95th percentile per-packet one-way delay: 103.621 ms
Loss rate: 2.32%
```

Run 3: Report of TCP BBR — Data Link

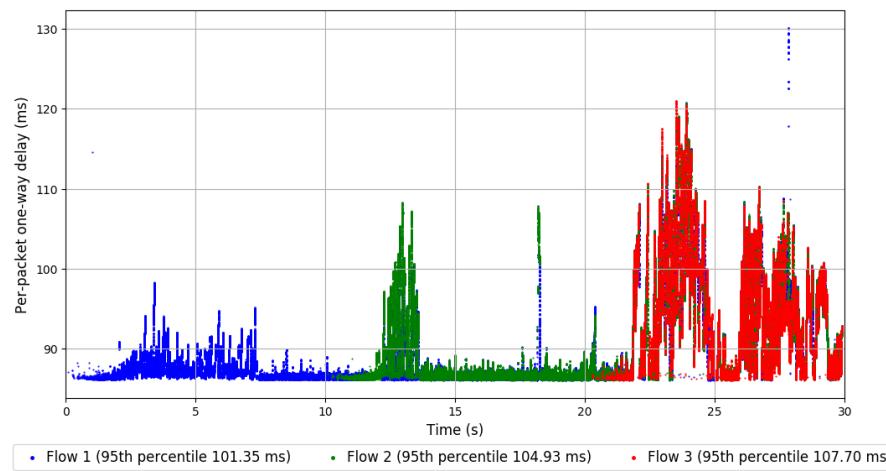
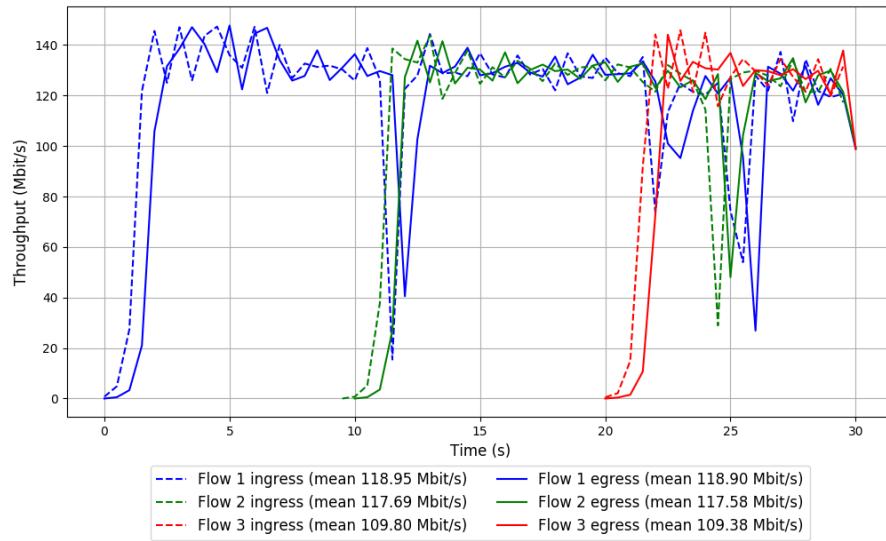


Run 4: Statistics of TCP BBR

```
Start at: 2018-05-22 14:22:14
End at: 2018-05-22 14:22:44
Local clock offset: 0.333 ms
Remote clock offset: 1.136 ms

# Below is generated by plot.py at 2018-05-22 17:00:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 232.96 Mbit/s
95th percentile per-packet one-way delay: 104.352 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 118.90 Mbit/s
95th percentile per-packet one-way delay: 101.346 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 117.58 Mbit/s
95th percentile per-packet one-way delay: 104.928 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 109.38 Mbit/s
95th percentile per-packet one-way delay: 107.704 ms
Loss rate: 2.14%
```

Run 4: Report of TCP BBR — Data Link

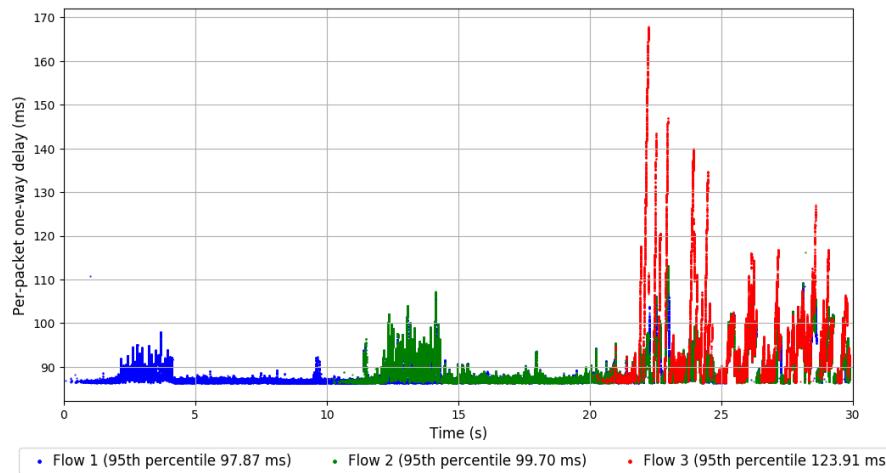
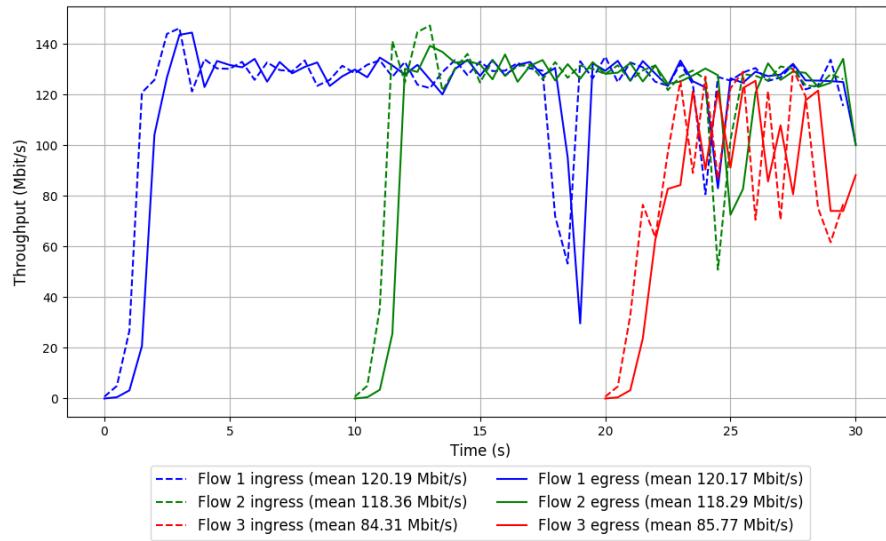


Run 5: Statistics of TCP BBR

```
Start at: 2018-05-22 14:44:38
End at: 2018-05-22 14:45:08
Local clock offset: 0.447 ms
Remote clock offset: 1.248 ms

# Below is generated by plot.py at 2018-05-22 17:00:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 226.91 Mbit/s
95th percentile per-packet one-way delay: 101.249 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 120.17 Mbit/s
95th percentile per-packet one-way delay: 97.867 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 118.29 Mbit/s
95th percentile per-packet one-way delay: 99.702 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 85.77 Mbit/s
95th percentile per-packet one-way delay: 123.911 ms
Loss rate: 0.07%
```

Run 5: Report of TCP BBR — Data Link

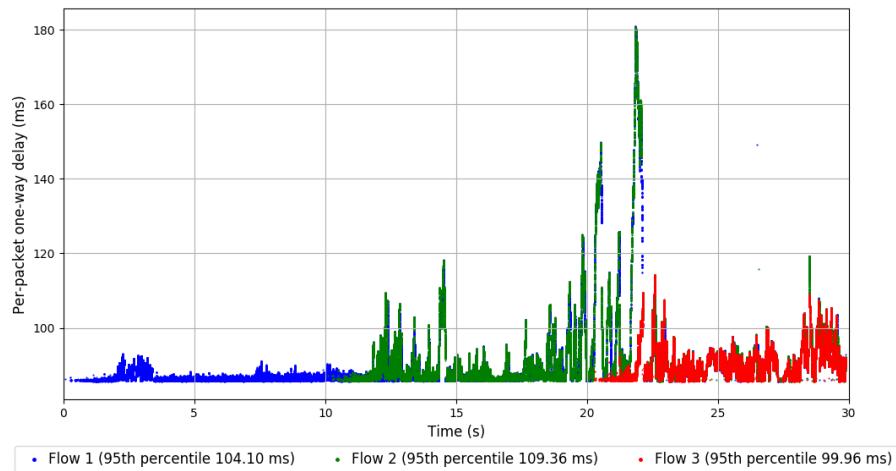
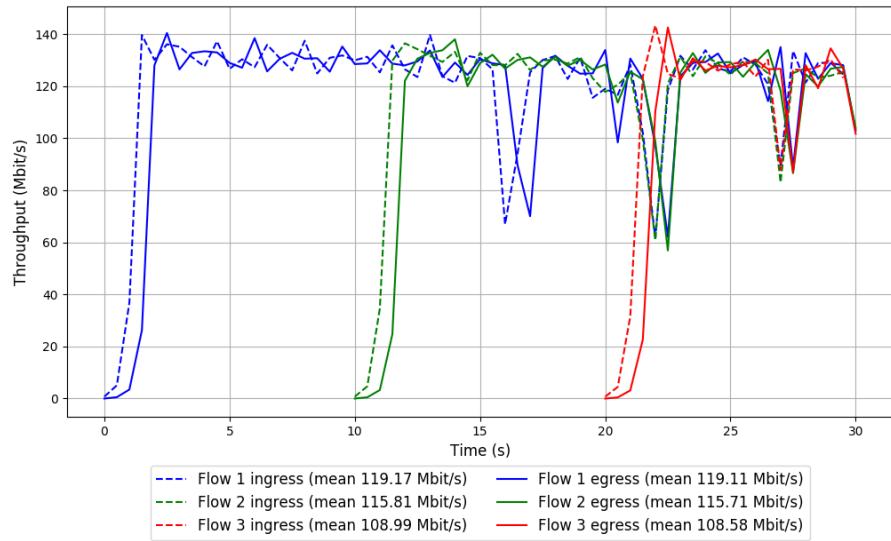


Run 6: Statistics of TCP BBR

```
Start at: 2018-05-22 15:06:54
End at: 2018-05-22 15:07:24
Local clock offset: -0.105 ms
Remote clock offset: 1.366 ms

# Below is generated by plot.py at 2018-05-22 17:00:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.55 Mbit/s
95th percentile per-packet one-way delay: 104.937 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 119.11 Mbit/s
95th percentile per-packet one-way delay: 104.096 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 115.71 Mbit/s
95th percentile per-packet one-way delay: 109.360 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 108.58 Mbit/s
95th percentile per-packet one-way delay: 99.961 ms
Loss rate: 2.17%
```

Run 6: Report of TCP BBR — Data Link

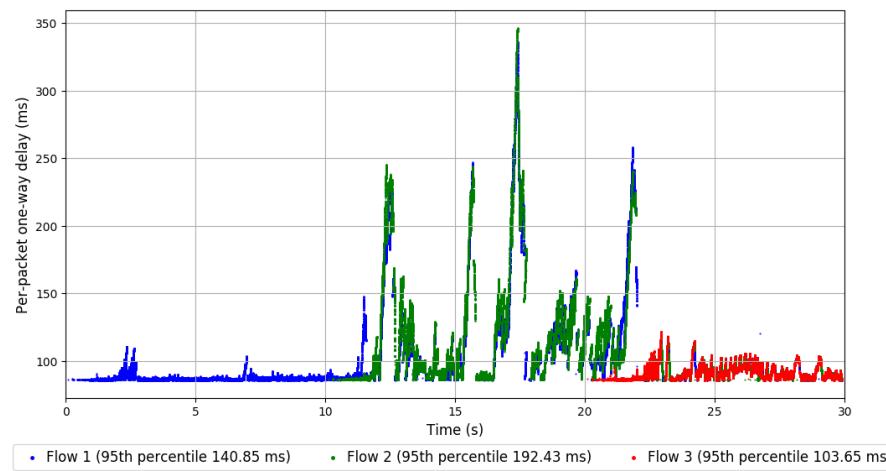
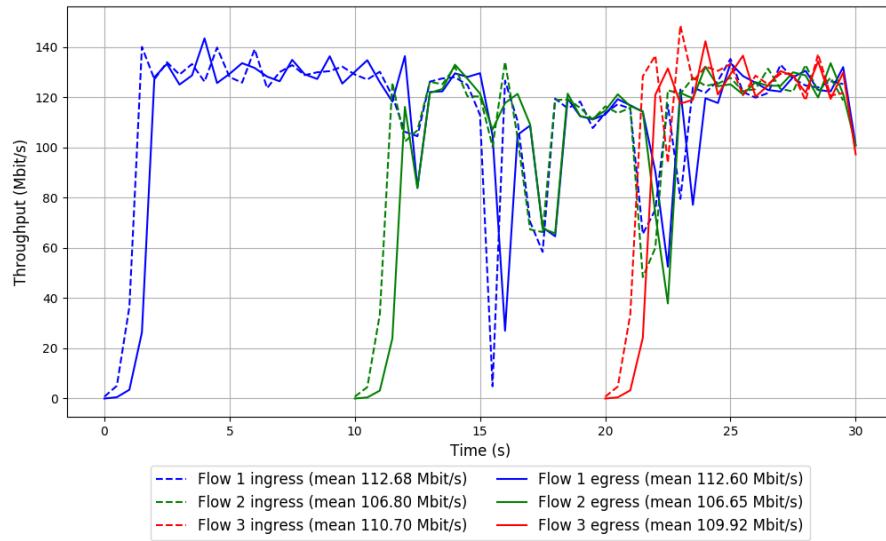


Run 7: Statistics of TCP BBR

```
Start at: 2018-05-22 15:29:28
End at: 2018-05-22 15:29:58
Local clock offset: 0.021 ms
Remote clock offset: 1.434 ms

# Below is generated by plot.py at 2018-05-22 17:00:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 219.48 Mbit/s
95th percentile per-packet one-way delay: 149.122 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 112.60 Mbit/s
95th percentile per-packet one-way delay: 140.850 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 106.65 Mbit/s
95th percentile per-packet one-way delay: 192.430 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 109.92 Mbit/s
95th percentile per-packet one-way delay: 103.647 ms
Loss rate: 2.17%
```

Run 7: Report of TCP BBR — Data Link

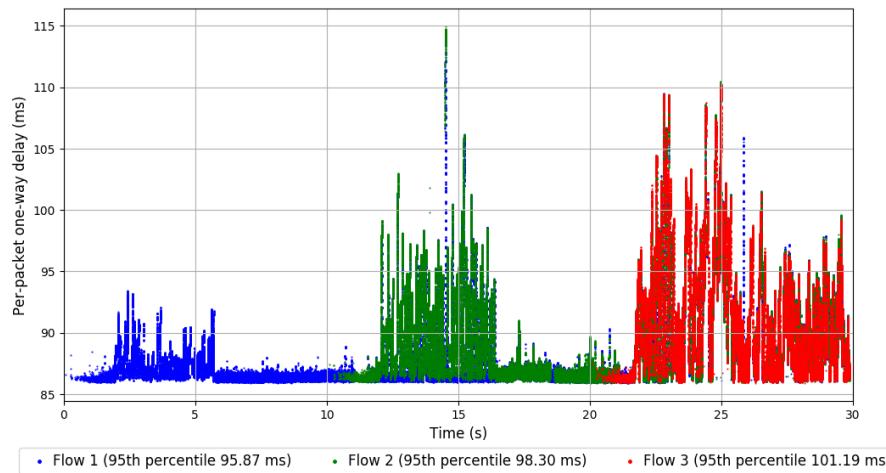
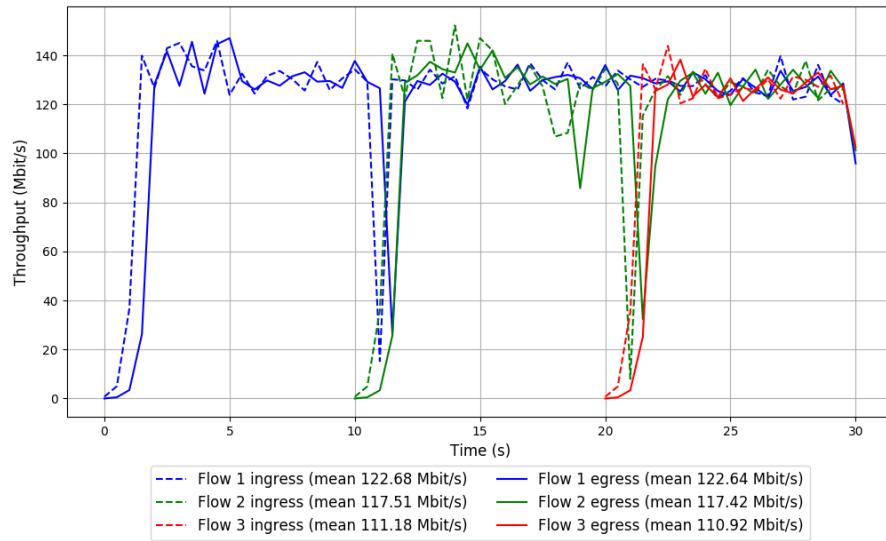


Run 8: Statistics of TCP BBR

```
Start at: 2018-05-22 15:52:08
End at: 2018-05-22 15:52:38
Local clock offset: 0.201 ms
Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-05-22 17:00:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 236.94 Mbit/s
95th percentile per-packet one-way delay: 98.082 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 122.64 Mbit/s
95th percentile per-packet one-way delay: 95.869 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 117.42 Mbit/s
95th percentile per-packet one-way delay: 98.296 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 110.92 Mbit/s
95th percentile per-packet one-way delay: 101.194 ms
Loss rate: 1.98%
```

Run 8: Report of TCP BBR — Data Link

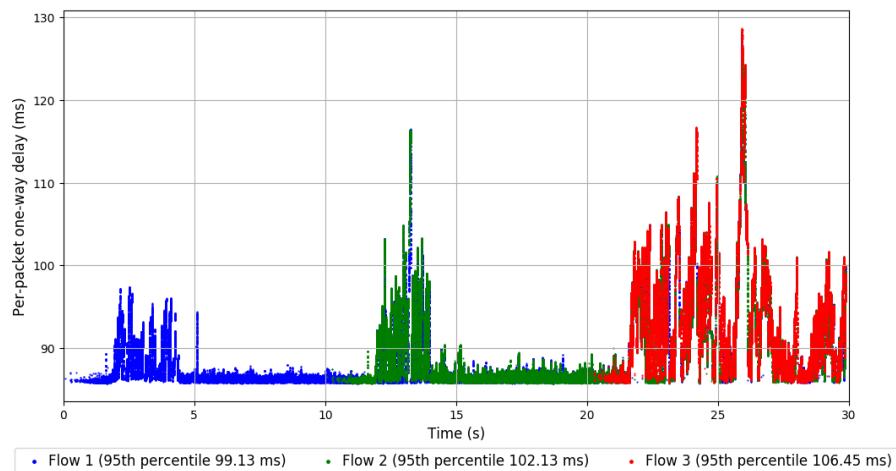
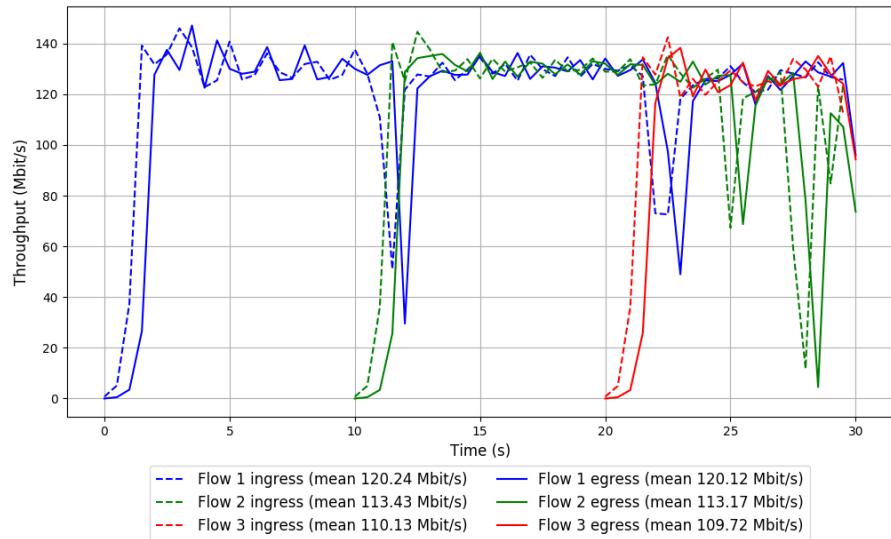


Run 9: Statistics of TCP BBR

```
Start at: 2018-05-22 16:14:37
End at: 2018-05-22 16:15:07
Local clock offset: -0.017 ms
Remote clock offset: -0.492 ms

# Below is generated by plot.py at 2018-05-22 17:03:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.35 Mbit/s
95th percentile per-packet one-way delay: 101.939 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 120.12 Mbit/s
95th percentile per-packet one-way delay: 99.128 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 113.17 Mbit/s
95th percentile per-packet one-way delay: 102.133 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 109.72 Mbit/s
95th percentile per-packet one-way delay: 106.448 ms
Loss rate: 2.12%
```

Run 9: Report of TCP BBR — Data Link

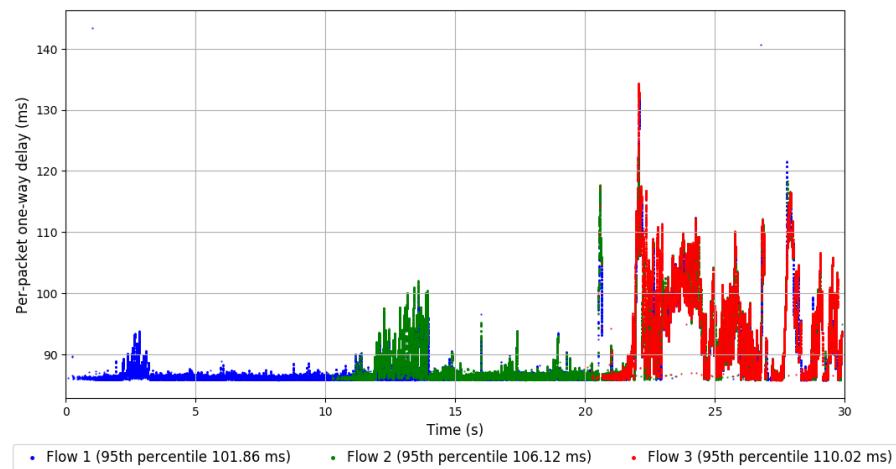
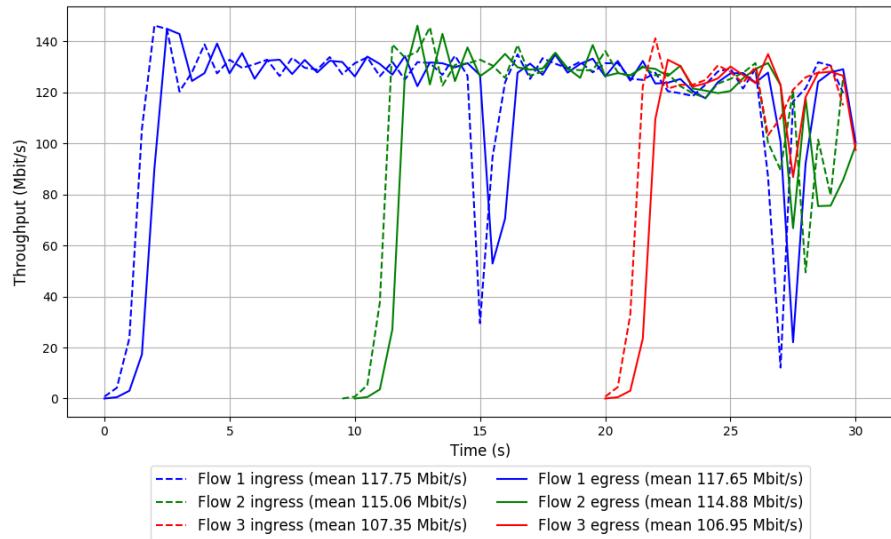


Run 10: Statistics of TCP BBR

```
Start at: 2018-05-22 16:37:09
End at: 2018-05-22 16:37:39
Local clock offset: 0.032 ms
Remote clock offset: -0.756 ms

# Below is generated by plot.py at 2018-05-22 17:03:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 229.13 Mbit/s
95th percentile per-packet one-way delay: 106.007 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 117.65 Mbit/s
95th percentile per-packet one-way delay: 101.865 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 114.88 Mbit/s
95th percentile per-packet one-way delay: 106.123 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 106.95 Mbit/s
95th percentile per-packet one-way delay: 110.023 ms
Loss rate: 2.13%
```

Run 10: Report of TCP BBR — Data Link

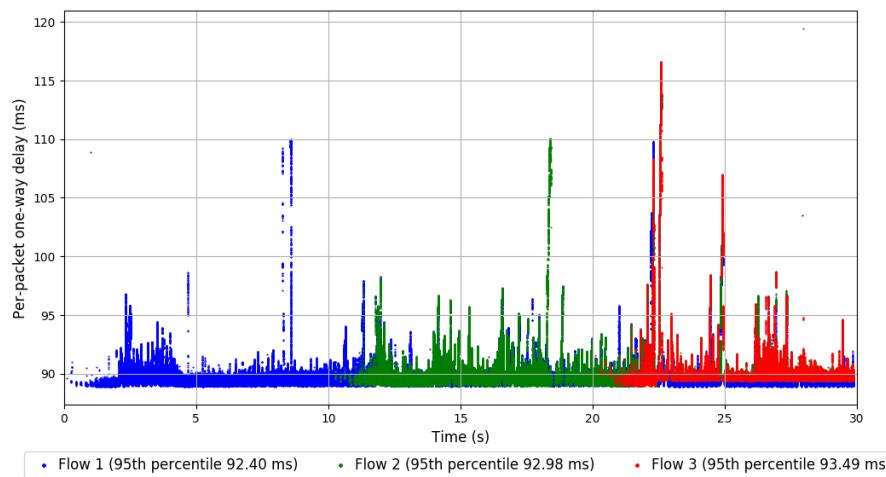
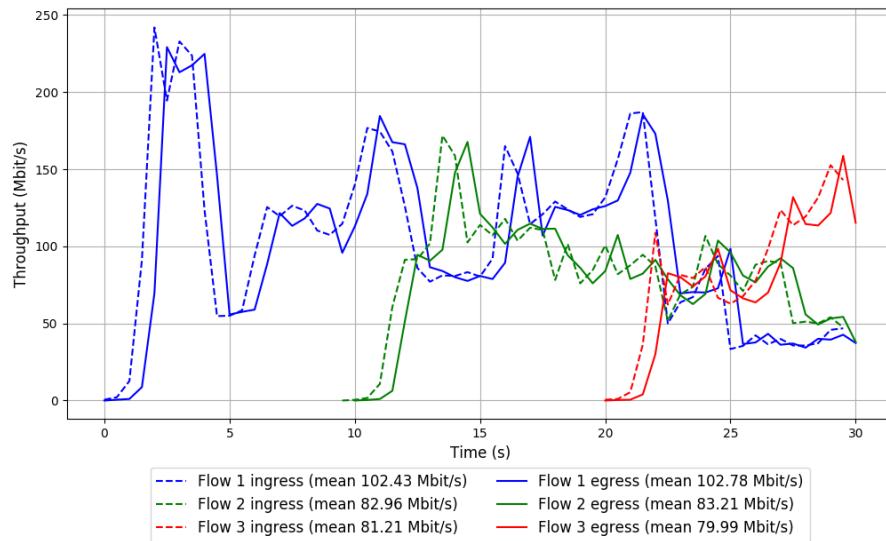


Run 1: Statistics of Copa

```
Start at: 2018-05-22 13:17:14
End at: 2018-05-22 13:17:44
Local clock offset: 3.095 ms
Remote clock offset: 0.868 ms

# Below is generated by plot.py at 2018-05-22 17:05:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 184.27 Mbit/s
95th percentile per-packet one-way delay: 92.689 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 102.78 Mbit/s
95th percentile per-packet one-way delay: 92.400 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 83.21 Mbit/s
95th percentile per-packet one-way delay: 92.980 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 79.99 Mbit/s
95th percentile per-packet one-way delay: 93.491 ms
Loss rate: 3.23%
```

Run 1: Report of Copa — Data Link

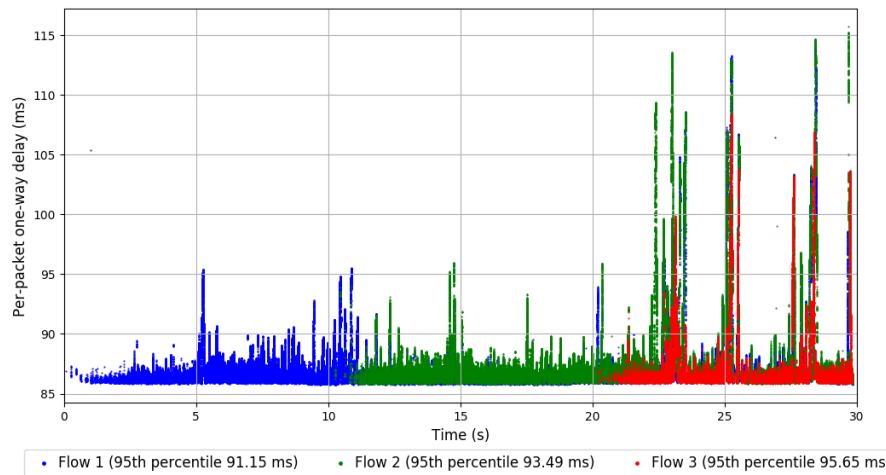
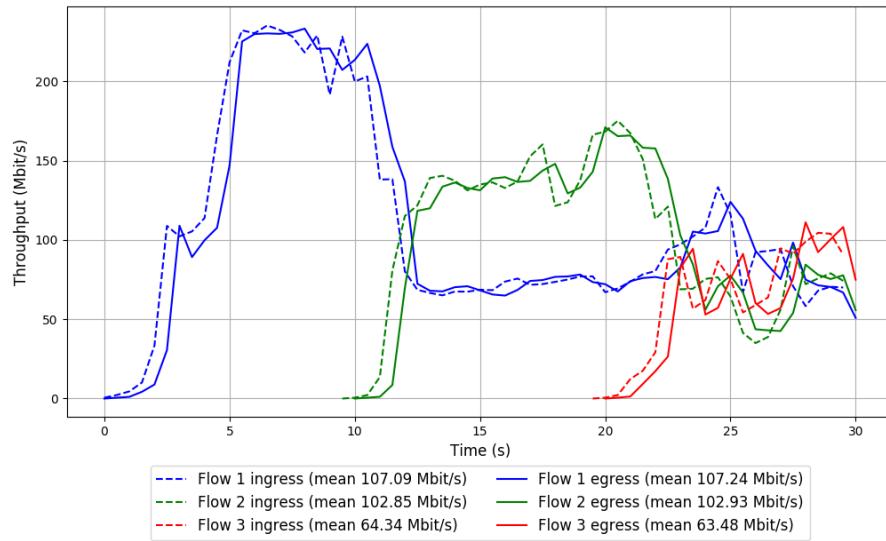


Run 2: Statistics of Copa

```
Start at: 2018-05-22 13:39:47
End at: 2018-05-22 13:40:17
Local clock offset: 0.025 ms
Remote clock offset: 0.973 ms

# Below is generated by plot.py at 2018-05-22 17:06:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 196.44 Mbit/s
95th percentile per-packet one-way delay: 92.375 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 107.24 Mbit/s
95th percentile per-packet one-way delay: 91.154 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 102.93 Mbit/s
95th percentile per-packet one-way delay: 93.493 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 95.652 ms
Loss rate: 3.06%
```

Run 2: Report of Copa — Data Link

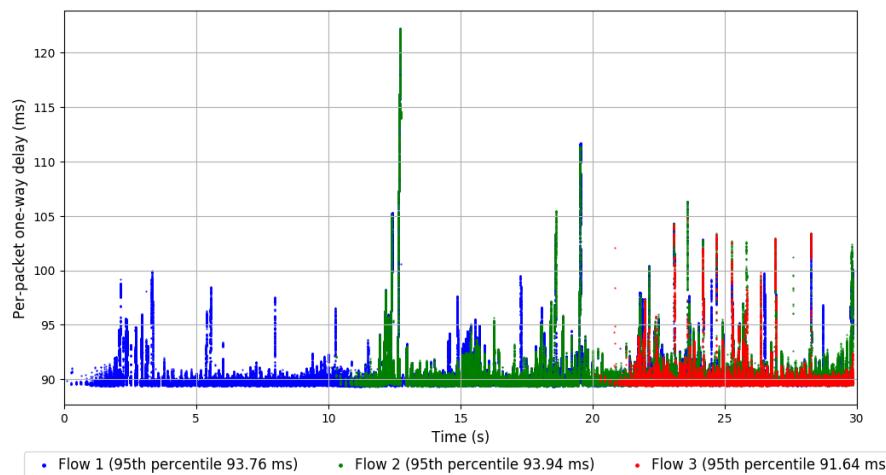
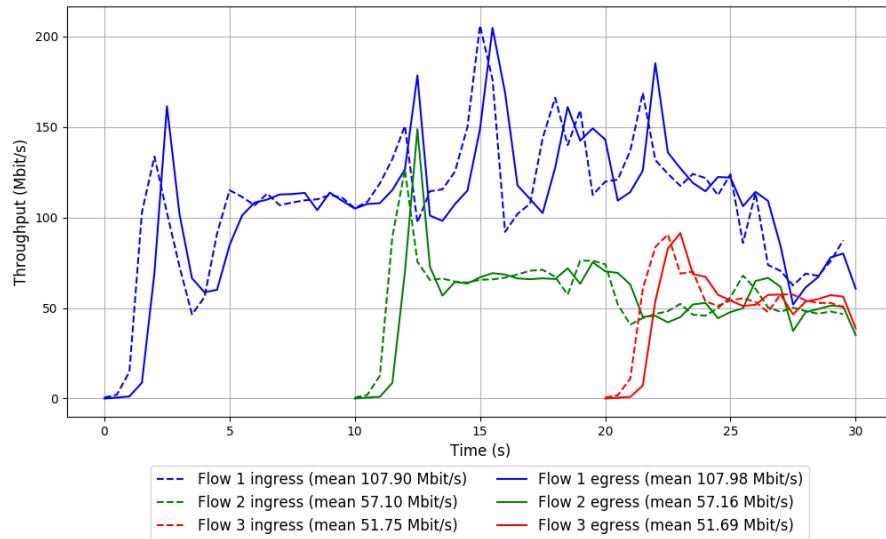


Run 3: Statistics of Copa

```
Start at: 2018-05-22 14:02:26
End at: 2018-05-22 14:02:56
Local clock offset: 3.68 ms
Remote clock offset: 1.136 ms

# Below is generated by plot.py at 2018-05-22 17:06:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 162.77 Mbit/s
95th percentile per-packet one-way delay: 93.652 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 107.98 Mbit/s
95th percentile per-packet one-way delay: 93.757 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 93.945 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 51.69 Mbit/s
95th percentile per-packet one-way delay: 91.637 ms
Loss rate: 1.87%
```

Run 3: Report of Copa — Data Link

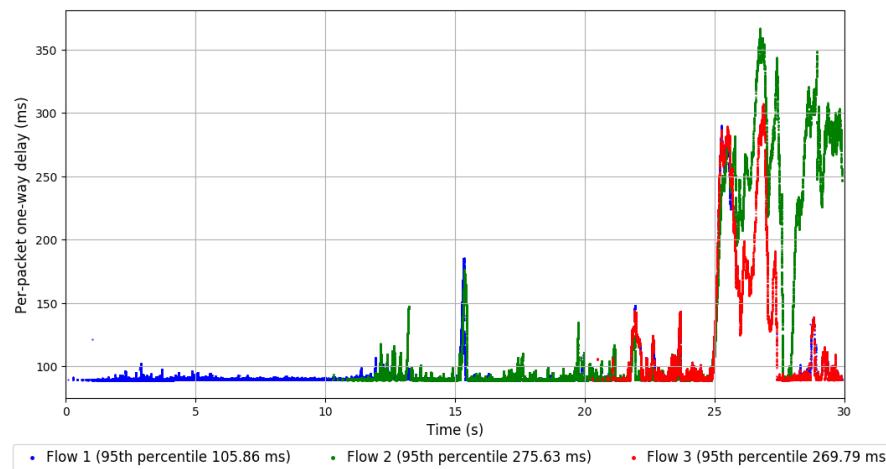
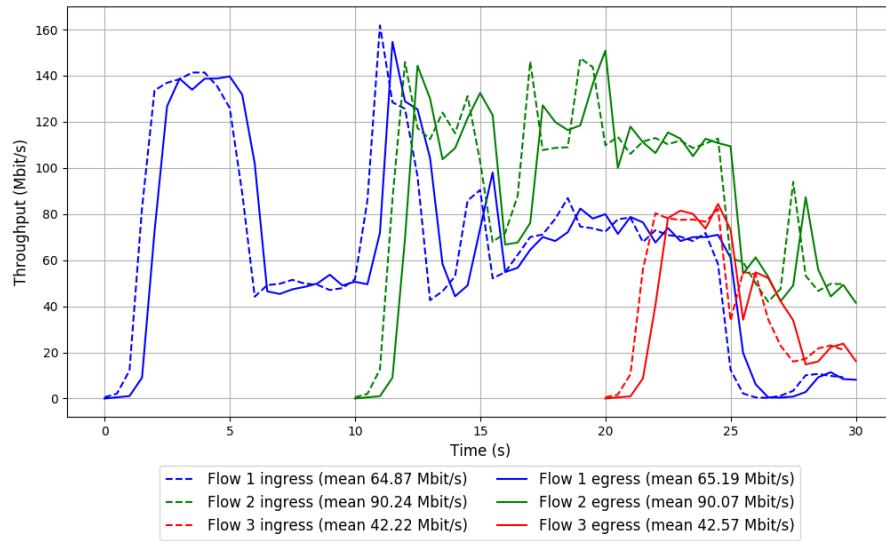


Run 4: Statistics of Copa

```
Start at: 2018-05-22 14:25:02
End at: 2018-05-22 14:25:32
Local clock offset: 3.37 ms
Remote clock offset: 1.158 ms

# Below is generated by plot.py at 2018-05-22 17:06:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.92 Mbit/s
95th percentile per-packet one-way delay: 240.358 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 65.19 Mbit/s
95th percentile per-packet one-way delay: 105.865 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 90.07 Mbit/s
95th percentile per-packet one-way delay: 275.626 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 42.57 Mbit/s
95th percentile per-packet one-way delay: 269.792 ms
Loss rate: 0.92%
```

Run 4: Report of Copa — Data Link

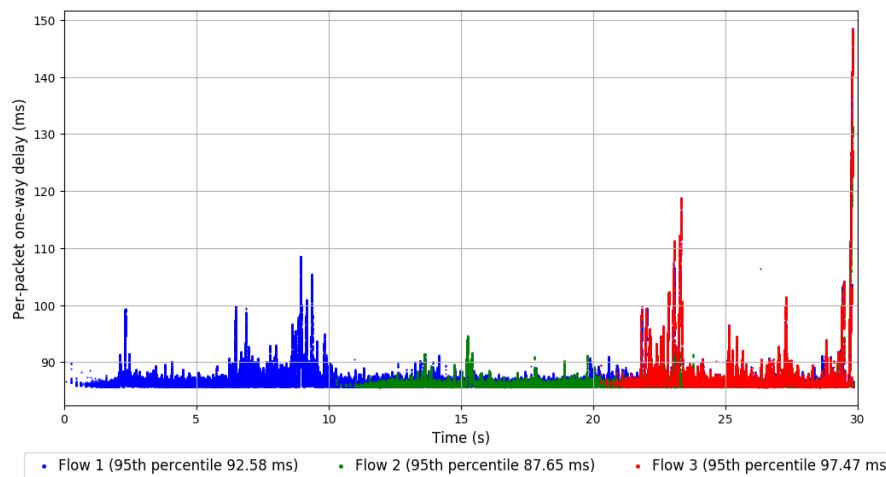
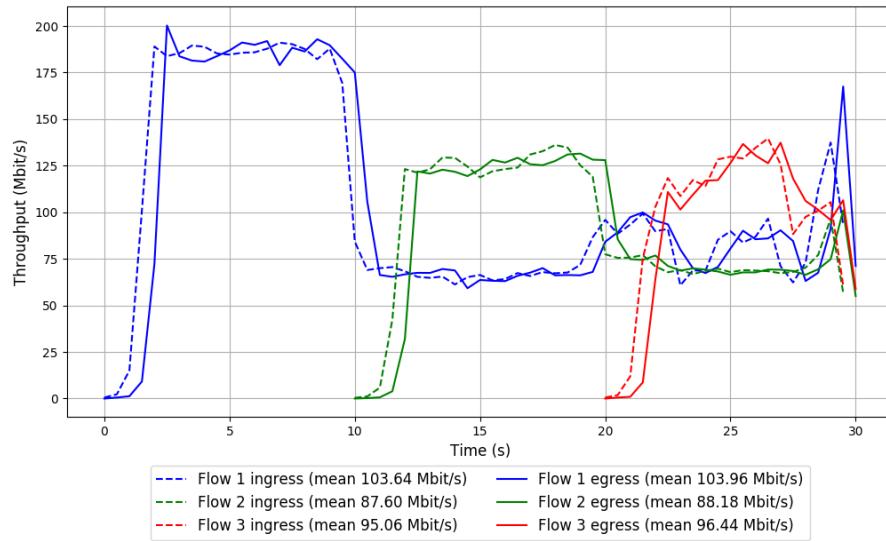


Run 5: Statistics of Copa

```
Start at: 2018-05-22 14:47:30
End at: 2018-05-22 14:48:00
Local clock offset: -0.1 ms
Remote clock offset: 1.309 ms

# Below is generated by plot.py at 2018-05-22 17:06:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 193.93 Mbit/s
95th percentile per-packet one-way delay: 92.081 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 103.96 Mbit/s
95th percentile per-packet one-way delay: 92.585 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 88.18 Mbit/s
95th percentile per-packet one-way delay: 87.649 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 97.466 ms
Loss rate: 0.90%
```

Run 5: Report of Copa — Data Link

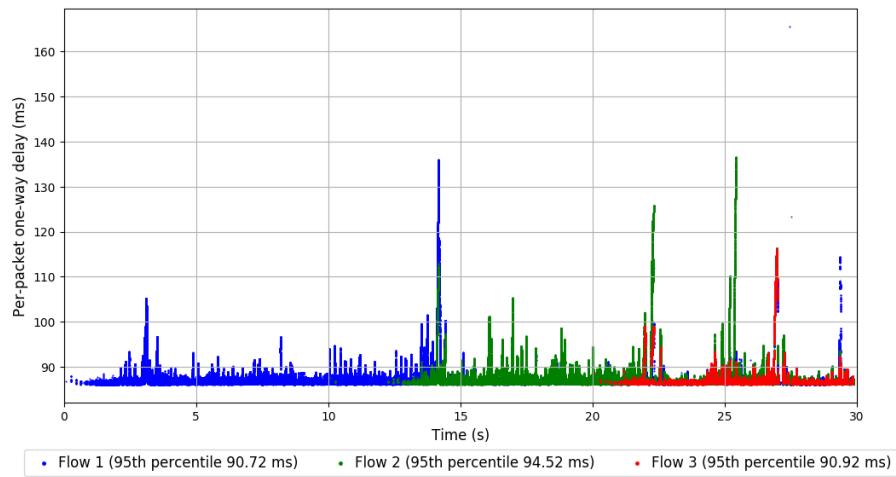
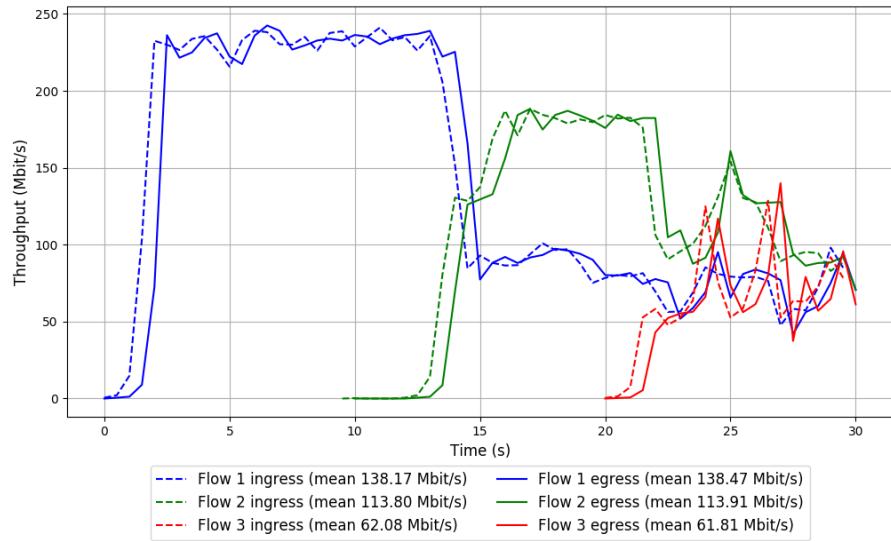


Run 6: Statistics of Copa

```
Start at: 2018-05-22 15:09:42
End at: 2018-05-22 15:10:12
Local clock offset: 0.27 ms
Remote clock offset: 1.387 ms

# Below is generated by plot.py at 2018-05-22 17:07:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.30 Mbit/s
95th percentile per-packet one-way delay: 91.755 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 138.47 Mbit/s
95th percentile per-packet one-way delay: 90.721 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 113.91 Mbit/s
95th percentile per-packet one-way delay: 94.521 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 61.81 Mbit/s
95th percentile per-packet one-way delay: 90.918 ms
Loss rate: 2.24%
```

Run 6: Report of Copa — Data Link

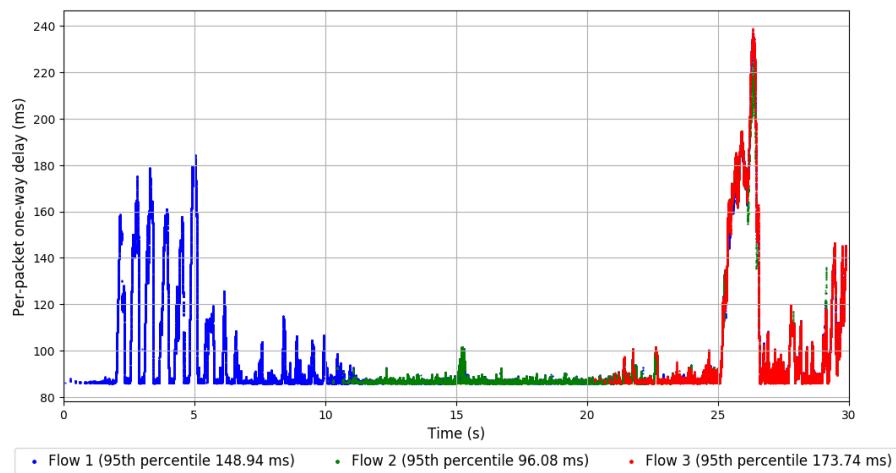
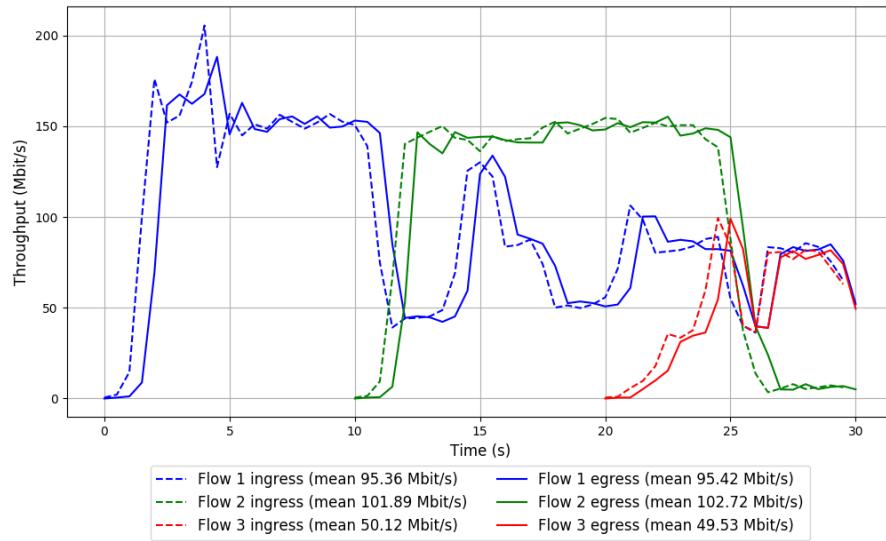


Run 7: Statistics of Copa

```
Start at: 2018-05-22 15:32:19
End at: 2018-05-22 15:32:49
Local clock offset: 0.093 ms
Remote clock offset: 1.433 ms

# Below is generated by plot.py at 2018-05-22 17:09:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 179.87 Mbit/s
95th percentile per-packet one-way delay: 144.039 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 95.42 Mbit/s
95th percentile per-packet one-way delay: 148.945 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 102.72 Mbit/s
95th percentile per-packet one-way delay: 96.080 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 173.739 ms
Loss rate: 2.89%
```

Run 7: Report of Copa — Data Link

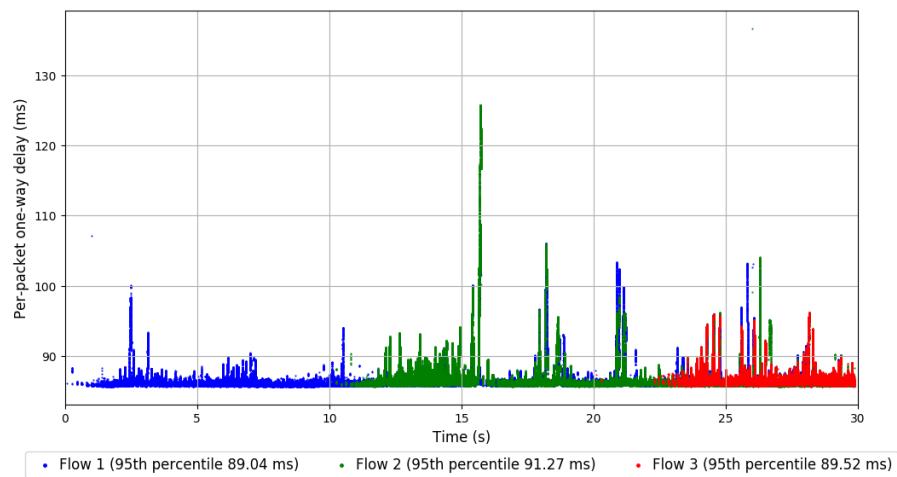
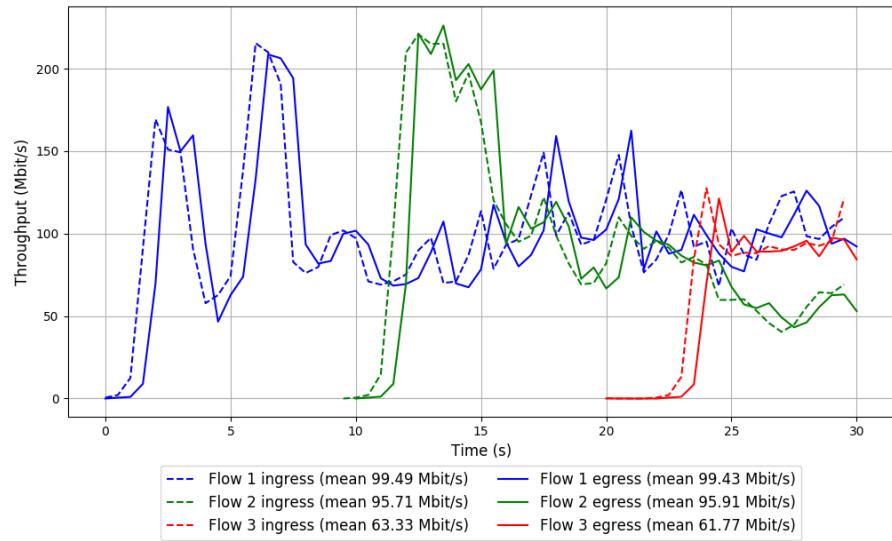


Run 8: Statistics of Copa

```
Start at: 2018-05-22 15:54:57
End at: 2018-05-22 15:55:27
Local clock offset: 0.003 ms
Remote clock offset: 0.126 ms

# Below is generated by plot.py at 2018-05-22 17:10:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 183.43 Mbit/s
95th percentile per-packet one-way delay: 89.967 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 99.43 Mbit/s
95th percentile per-packet one-way delay: 89.037 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 95.91 Mbit/s
95th percentile per-packet one-way delay: 91.268 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 61.77 Mbit/s
95th percentile per-packet one-way delay: 89.517 ms
Loss rate: 4.17%
```

Run 8: Report of Copa — Data Link

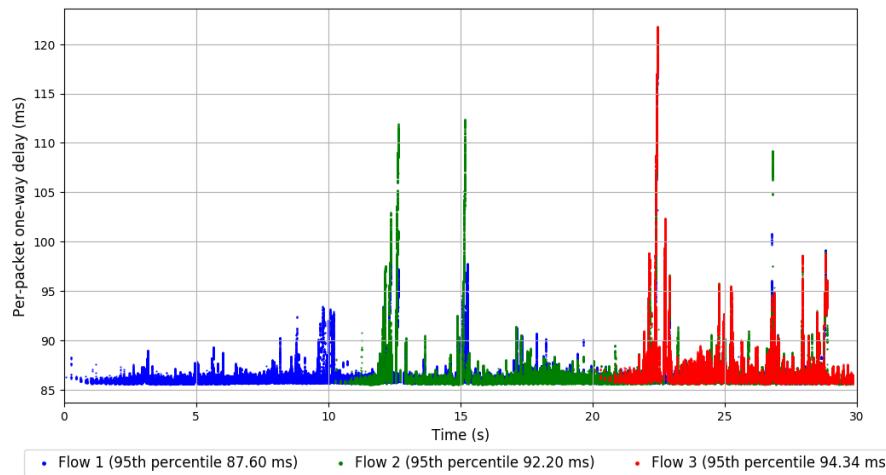
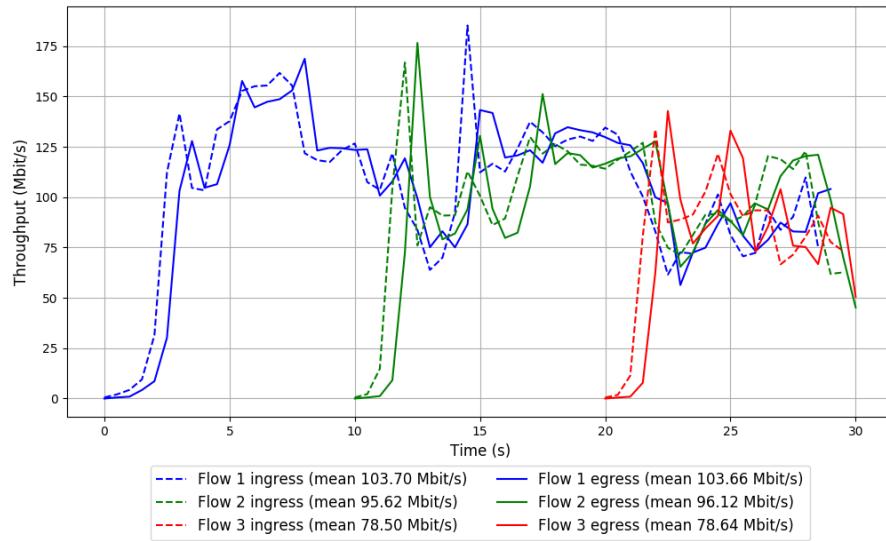


Run 9: Statistics of Copa

```
Start at: 2018-05-22 16:17:30
End at: 2018-05-22 16:18:00
Local clock offset: -0.178 ms
Remote clock offset: -0.508 ms

# Below is generated by plot.py at 2018-05-22 17:11:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.84 Mbit/s
95th percentile per-packet one-way delay: 89.943 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 103.66 Mbit/s
95th percentile per-packet one-way delay: 87.602 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 92.201 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 78.64 Mbit/s
95th percentile per-packet one-way delay: 94.344 ms
Loss rate: 1.57%
```

Run 9: Report of Copa — Data Link

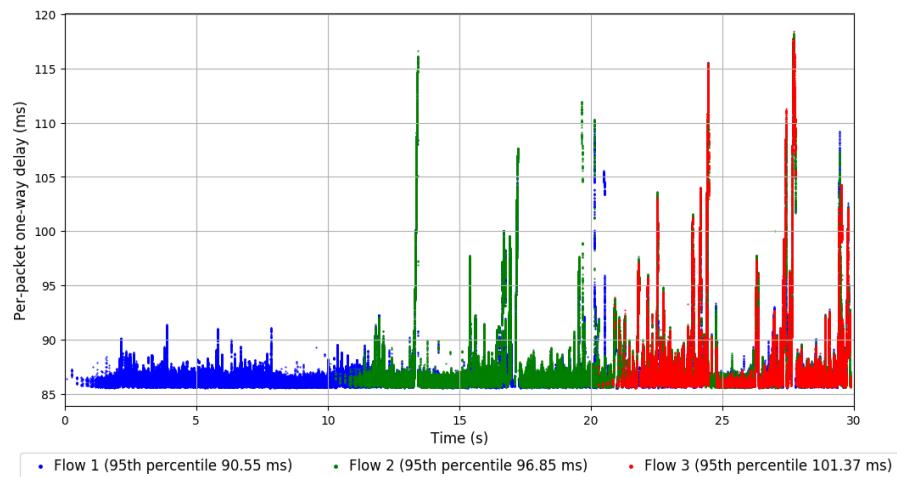
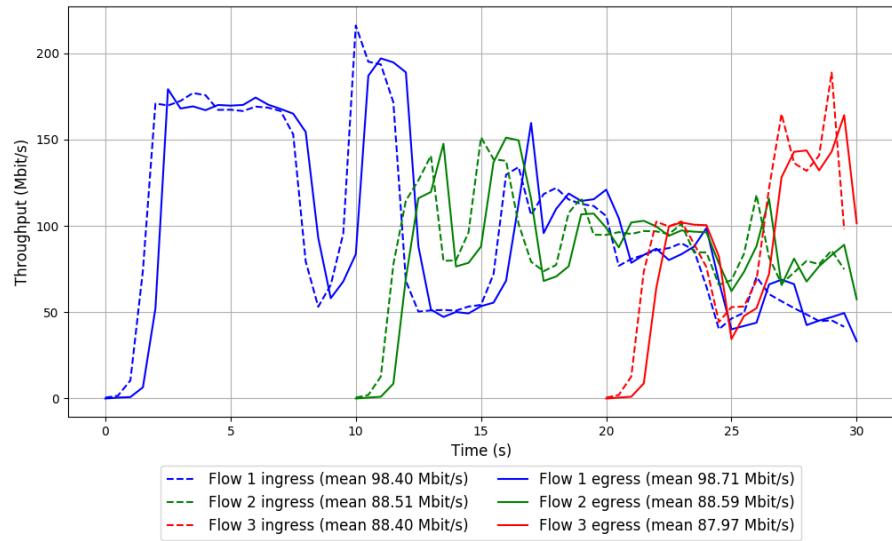


Run 10: Statistics of Copa

```
Start at: 2018-05-22 16:40:02
End at: 2018-05-22 16:40:32
Local clock offset: -0.147 ms
Remote clock offset: -0.724 ms

# Below is generated by plot.py at 2018-05-22 17:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 186.37 Mbit/s
95th percentile per-packet one-way delay: 95.261 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 98.71 Mbit/s
95th percentile per-packet one-way delay: 90.553 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 88.59 Mbit/s
95th percentile per-packet one-way delay: 96.854 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 87.97 Mbit/s
95th percentile per-packet one-way delay: 101.374 ms
Loss rate: 2.23%
```

Run 10: Report of Copa — Data Link

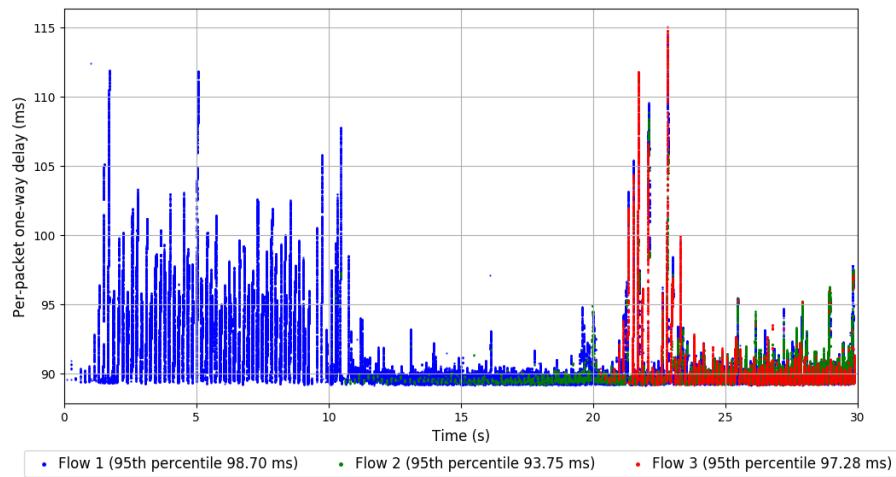
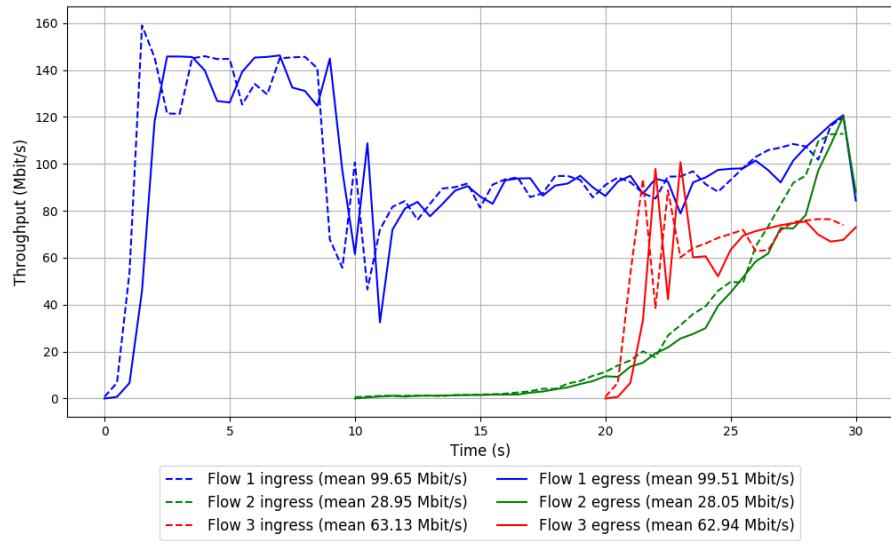


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-05-22 13:08:50
End at: 2018-05-22 13:09:20
Local clock offset: 3.284 ms
Remote clock offset: 0.79 ms

# Below is generated by plot.py at 2018-05-22 17:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 138.79 Mbit/s
95th percentile per-packet one-way delay: 98.169 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 99.51 Mbit/s
95th percentile per-packet one-way delay: 98.697 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 28.05 Mbit/s
95th percentile per-packet one-way delay: 93.755 ms
Loss rate: 3.96%
-- Flow 3:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 97.278 ms
Loss rate: 2.04%
```

Run 1: Report of TCP Cubic — Data Link

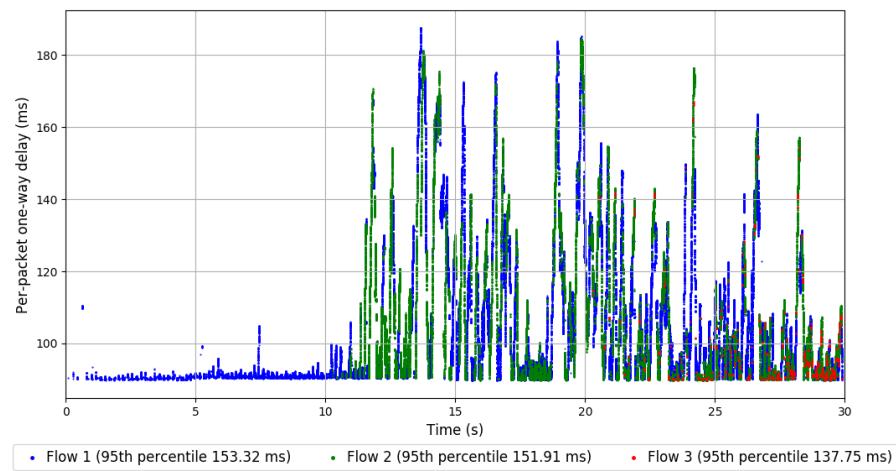
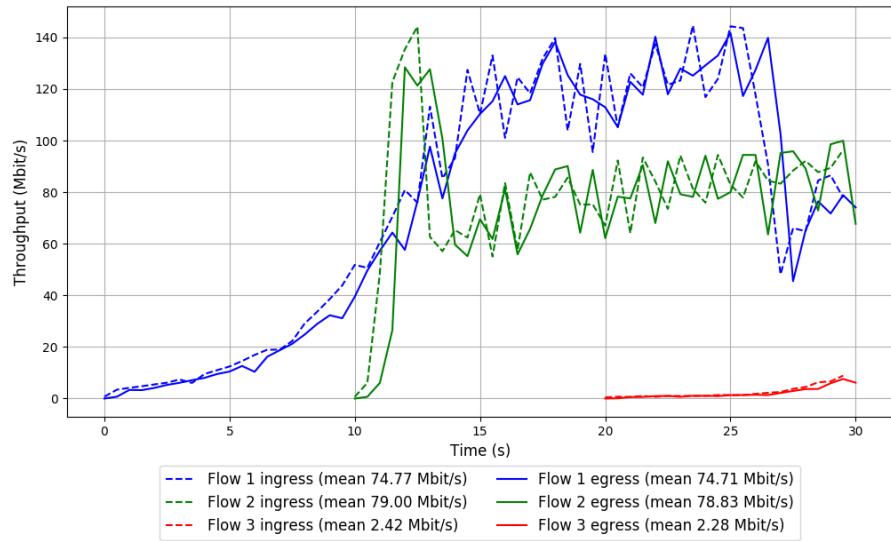


Run 2: Statistics of TCP Cubic

```
Start at: 2018-05-22 13:31:21
End at: 2018-05-22 13:31:51
Local clock offset: 3.837 ms
Remote clock offset: 0.866 ms

# Below is generated by plot.py at 2018-05-22 17:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.80 Mbit/s
95th percentile per-packet one-way delay: 152.191 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 74.71 Mbit/s
95th percentile per-packet one-way delay: 153.319 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 78.83 Mbit/s
95th percentile per-packet one-way delay: 151.905 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 137.747 ms
Loss rate: 7.37%
```

Run 2: Report of TCP Cubic — Data Link

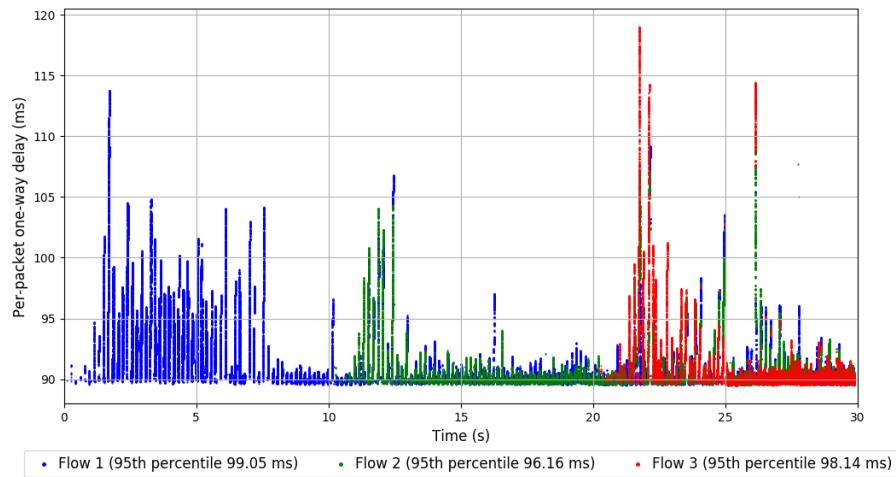
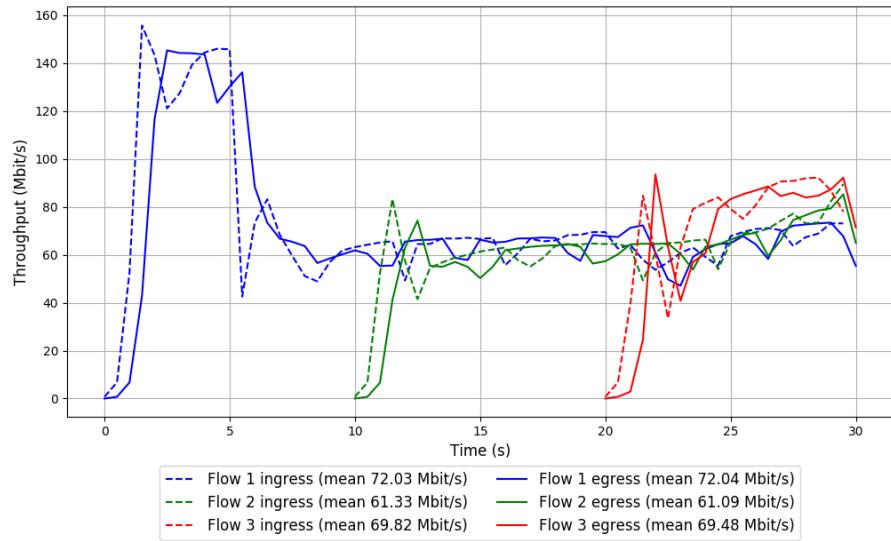


Run 3: Statistics of TCP Cubic

```
Start at: 2018-05-22 13:53:56
End at: 2018-05-22 13:54:26
Local clock offset: 3.64 ms
Remote clock offset: 0.951 ms

# Below is generated by plot.py at 2018-05-22 17:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 135.36 Mbit/s
95th percentile per-packet one-way delay: 98.488 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 72.04 Mbit/s
95th percentile per-packet one-way delay: 99.048 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 61.09 Mbit/s
95th percentile per-packet one-way delay: 96.160 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 69.48 Mbit/s
95th percentile per-packet one-way delay: 98.143 ms
Loss rate: 2.22%
```

Run 3: Report of TCP Cubic — Data Link

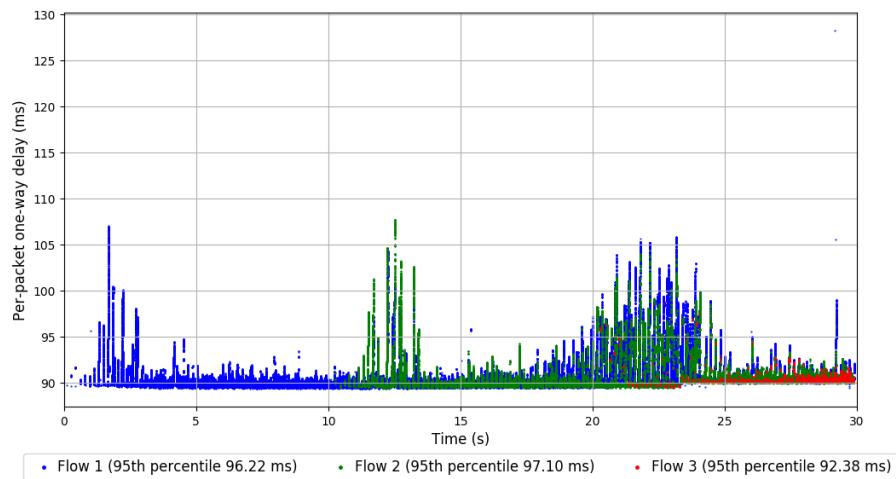
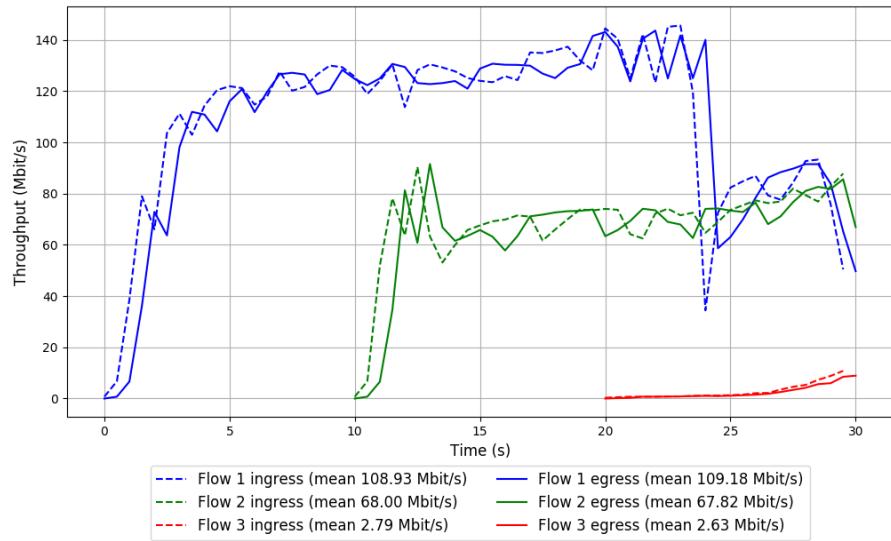


Run 4: Statistics of TCP Cubic

```
Start at: 2018-05-22 14:16:33
End at: 2018-05-22 14:17:03
Local clock offset: 3.566 ms
Remote clock offset: 1.107 ms

# Below is generated by plot.py at 2018-05-22 17:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 155.08 Mbit/s
95th percentile per-packet one-way delay: 96.543 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 109.18 Mbit/s
95th percentile per-packet one-way delay: 96.225 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 67.82 Mbit/s
95th percentile per-packet one-way delay: 97.099 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 92.378 ms
Loss rate: 7.44%
```

Run 4: Report of TCP Cubic — Data Link

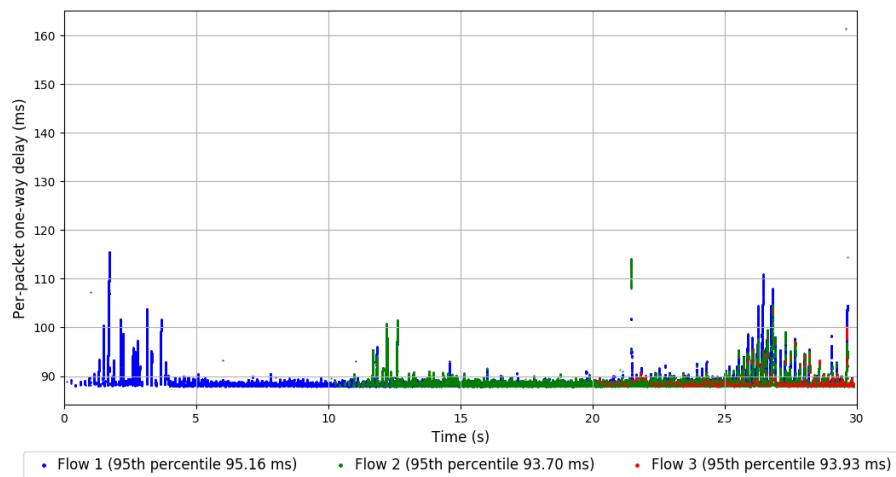
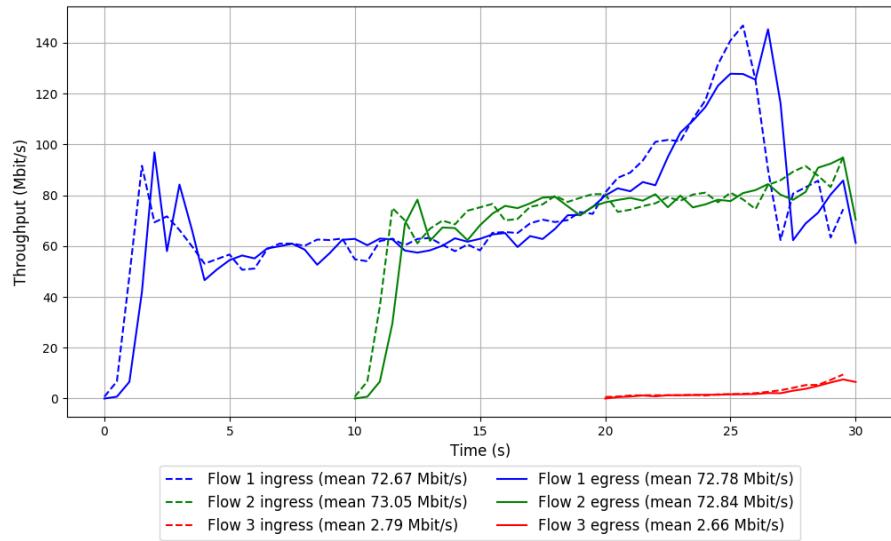


Run 5: Statistics of TCP Cubic

```
Start at: 2018-05-22 14:39:01
End at: 2018-05-22 14:39:31
Local clock offset: 2.01 ms
Remote clock offset: 1.188 ms

# Below is generated by plot.py at 2018-05-22 17:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 122.01 Mbit/s
95th percentile per-packet one-way delay: 94.506 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 95.159 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 72.84 Mbit/s
95th percentile per-packet one-way delay: 93.705 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 2.66 Mbit/s
95th percentile per-packet one-way delay: 93.933 ms
Loss rate: 6.32%
```

Run 5: Report of TCP Cubic — Data Link

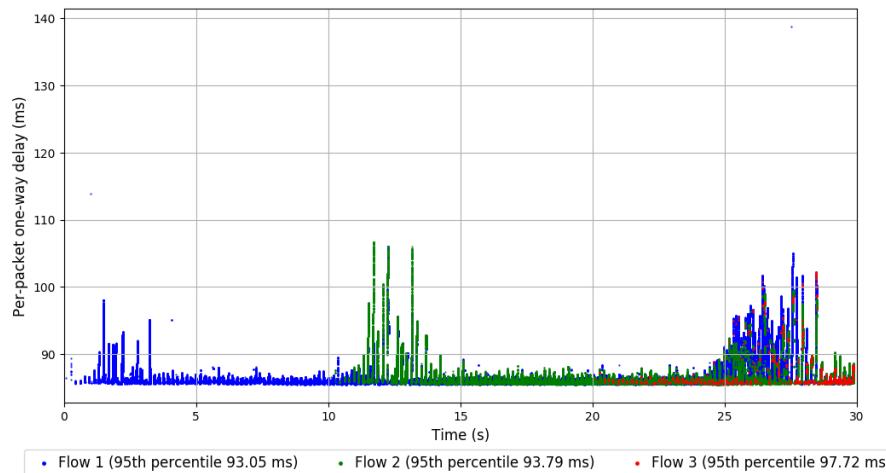
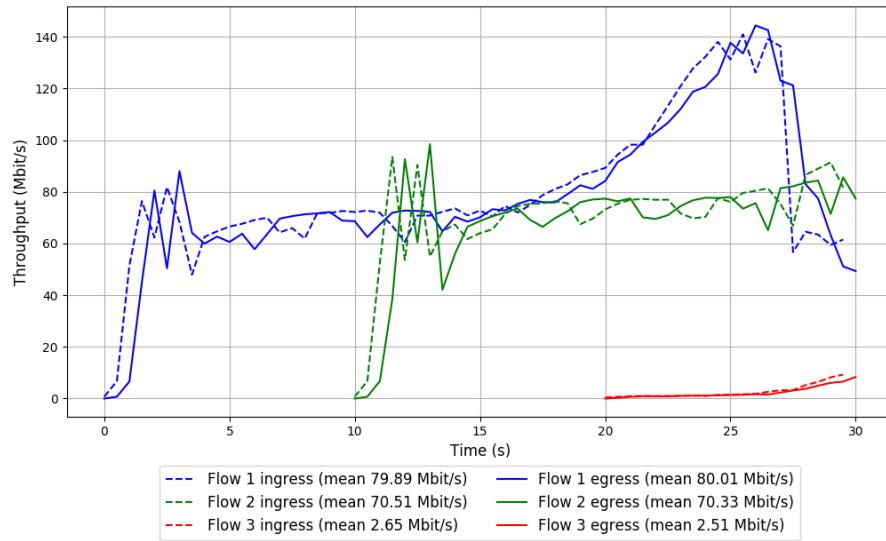


Run 6: Statistics of TCP Cubic

```
Start at: 2018-05-22 15:01:38
End at: 2018-05-22 15:02:08
Local clock offset: -0.239 ms
Remote clock offset: 1.346 ms

# Below is generated by plot.py at 2018-05-22 17:11:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.50 Mbit/s
95th percentile per-packet one-way delay: 93.363 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 80.01 Mbit/s
95th percentile per-packet one-way delay: 93.051 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 70.33 Mbit/s
95th percentile per-packet one-way delay: 93.794 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 2.51 Mbit/s
95th percentile per-packet one-way delay: 97.721 ms
Loss rate: 6.99%
```

Run 6: Report of TCP Cubic — Data Link

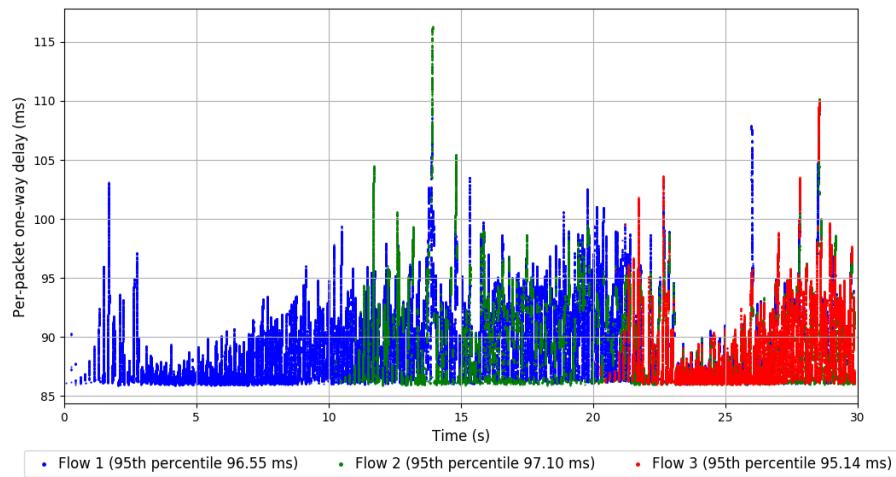
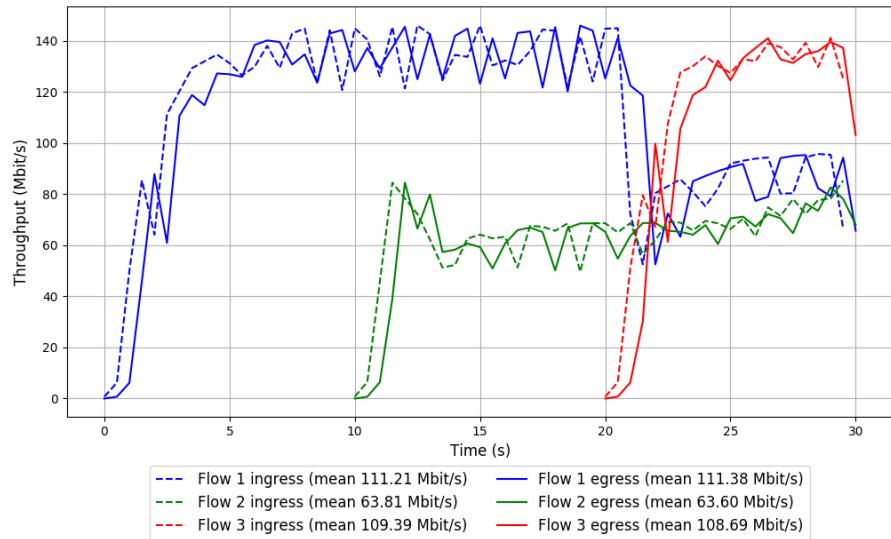


Run 7: Statistics of TCP Cubic

```
Start at: 2018-05-22 15:23:46
End at: 2018-05-22 15:24:16
Local clock offset: 0.156 ms
Remote clock offset: 1.425 ms

# Below is generated by plot.py at 2018-05-22 17:12:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.18 Mbit/s
95th percentile per-packet one-way delay: 96.457 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 111.38 Mbit/s
95th percentile per-packet one-way delay: 96.546 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 63.60 Mbit/s
95th percentile per-packet one-way delay: 97.104 ms
Loss rate: 1.19%
-- Flow 3:
Average throughput: 108.69 Mbit/s
95th percentile per-packet one-way delay: 95.137 ms
Loss rate: 2.02%
```

Run 7: Report of TCP Cubic — Data Link

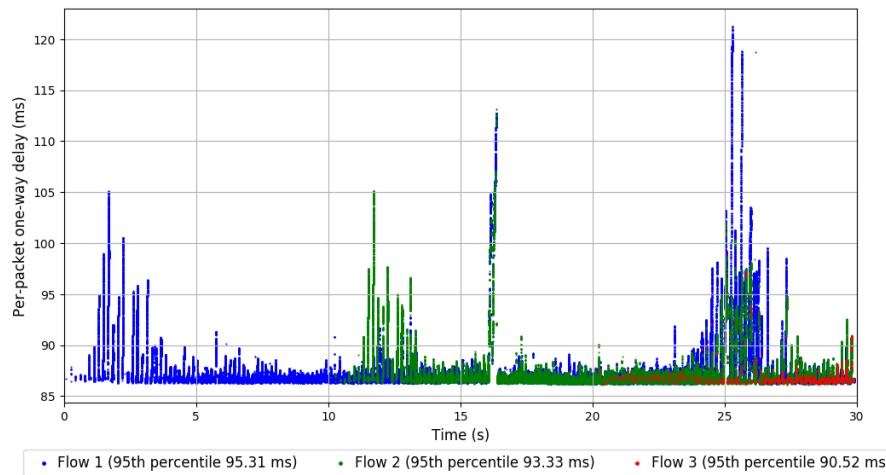
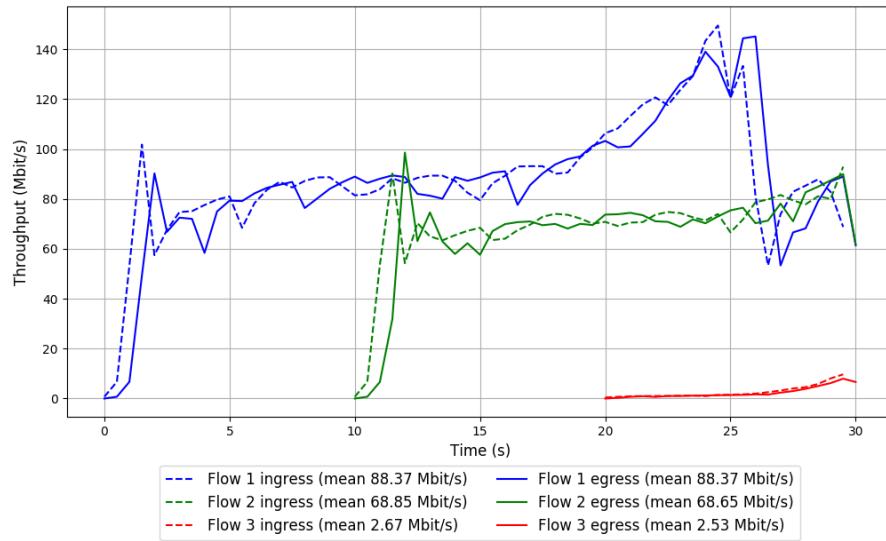


Run 8: Statistics of TCP Cubic

```
Start at: 2018-05-22 15:46:28
End at: 2018-05-22 15:46:58
Local clock offset: 0.523 ms
Remote clock offset: 0.708 ms

# Below is generated by plot.py at 2018-05-22 17:12:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 134.71 Mbit/s
95th percentile per-packet one-way delay: 94.499 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 95.309 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 68.65 Mbit/s
95th percentile per-packet one-way delay: 93.335 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 90.517 ms
Loss rate: 6.87%
```

Run 8: Report of TCP Cubic — Data Link

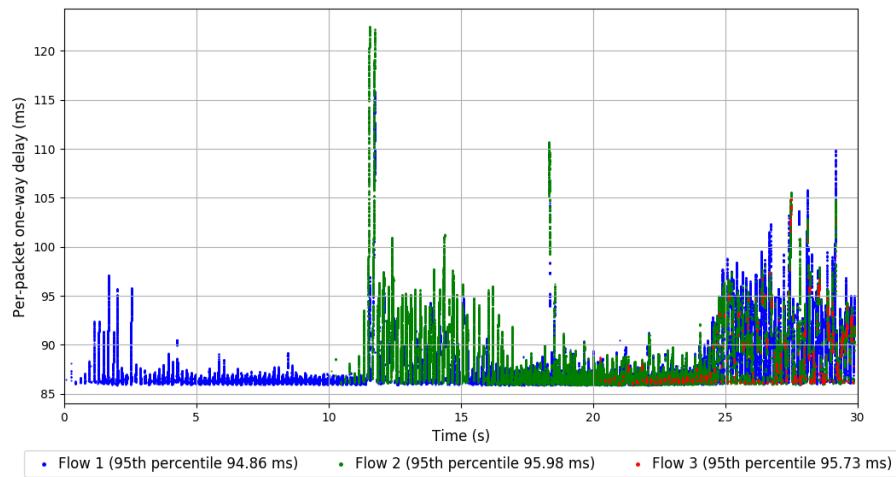
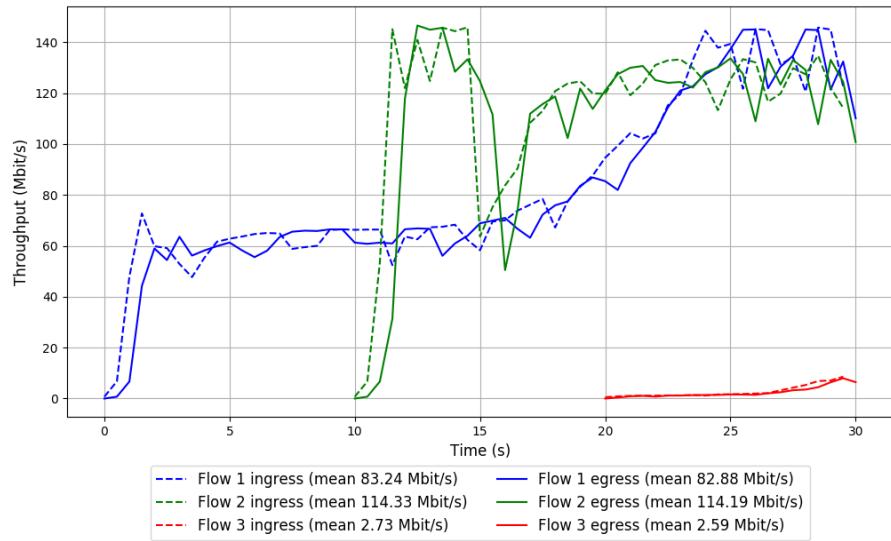


Run 9: Statistics of TCP Cubic

```
Start at: 2018-05-22 16:09:04
End at: 2018-05-22 16:09:34
Local clock offset: 0.082 ms
Remote clock offset: -0.437 ms

# Below is generated by plot.py at 2018-05-22 17:13:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.53 Mbit/s
95th percentile per-packet one-way delay: 95.518 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 82.88 Mbit/s
95th percentile per-packet one-way delay: 94.862 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 114.19 Mbit/s
95th percentile per-packet one-way delay: 95.981 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 95.734 ms
Loss rate: 6.71%
```

Run 9: Report of TCP Cubic — Data Link

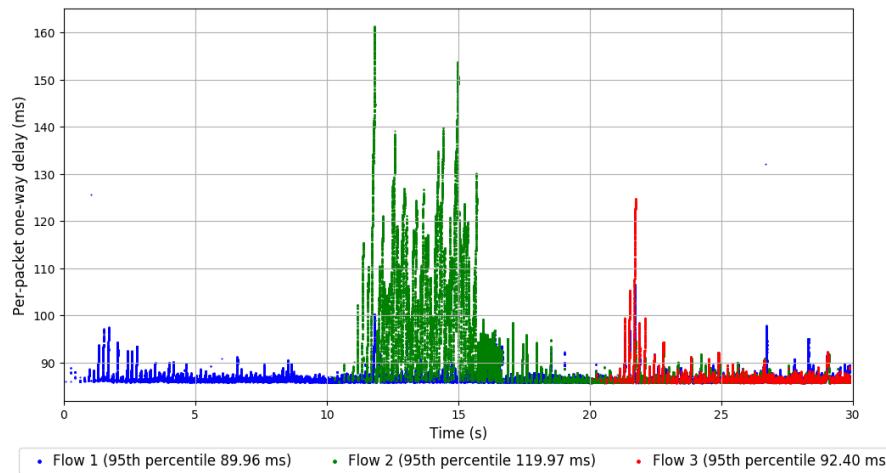
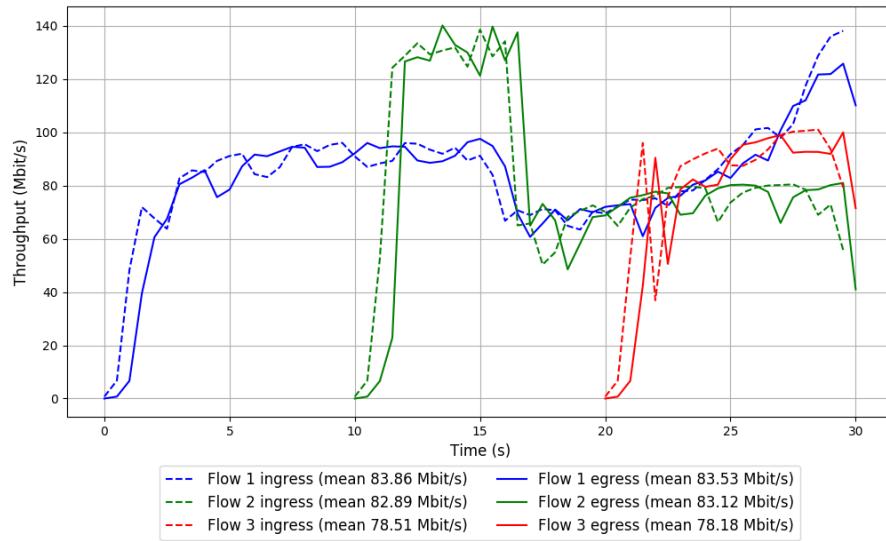


Run 10: Statistics of TCP Cubic

```
Start at: 2018-05-22 16:31:37
End at: 2018-05-22 16:32:07
Local clock offset: 0.011 ms
Remote clock offset: -0.631 ms

# Below is generated by plot.py at 2018-05-22 17:13:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 164.27 Mbit/s
95th percentile per-packet one-way delay: 107.120 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 83.53 Mbit/s
95th percentile per-packet one-way delay: 89.956 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 83.12 Mbit/s
95th percentile per-packet one-way delay: 119.965 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 78.18 Mbit/s
95th percentile per-packet one-way delay: 92.404 ms
Loss rate: 2.16%
```

Run 10: Report of TCP Cubic — Data Link

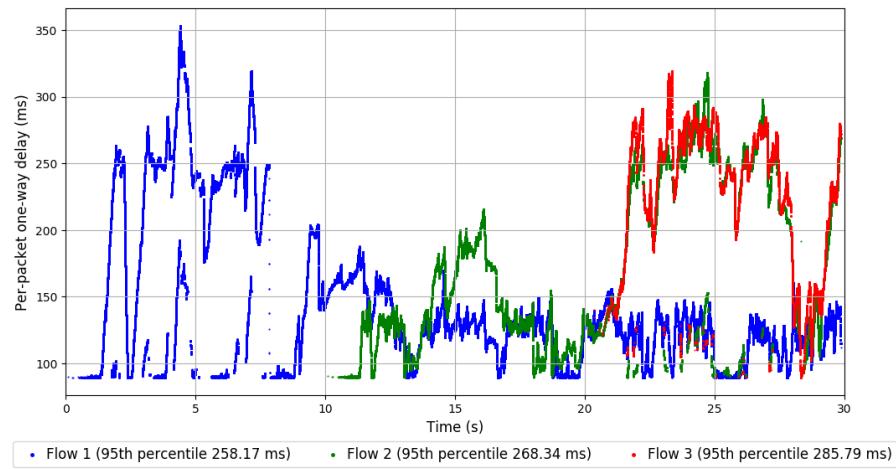
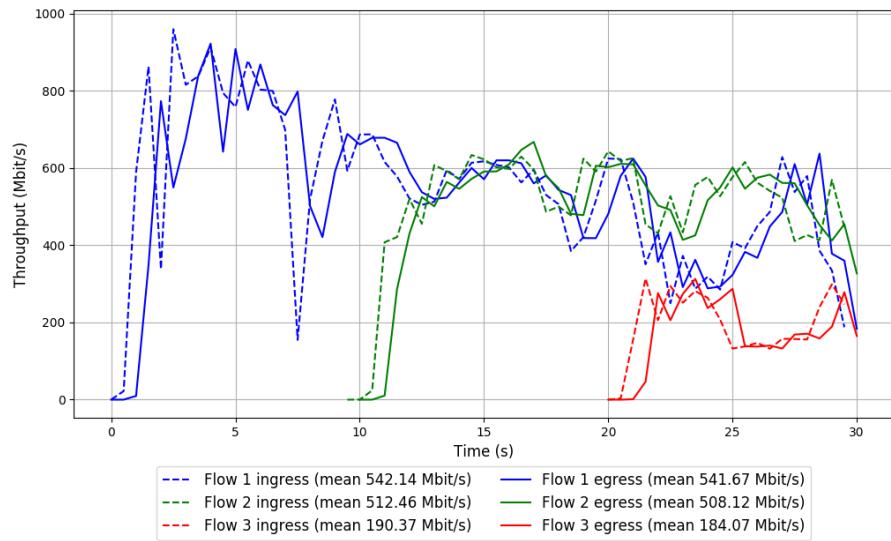


```
Run 1: Statistics of FillP

Start at: 2018-05-22 13:12:31
End at: 2018-05-22 13:13:01
Local clock offset: 3.46 ms
Remote clock offset: 0.846 ms

# Below is generated by plot.py at 2018-05-22 17:30:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 939.17 Mbit/s
95th percentile per-packet one-way delay: 272.987 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 541.67 Mbit/s
95th percentile per-packet one-way delay: 258.166 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 508.12 Mbit/s
95th percentile per-packet one-way delay: 268.342 ms
Loss rate: 1.71%
-- Flow 3:
Average throughput: 184.07 Mbit/s
95th percentile per-packet one-way delay: 285.792 ms
Loss rate: 5.34%
```

Run 1: Report of FillP — Data Link

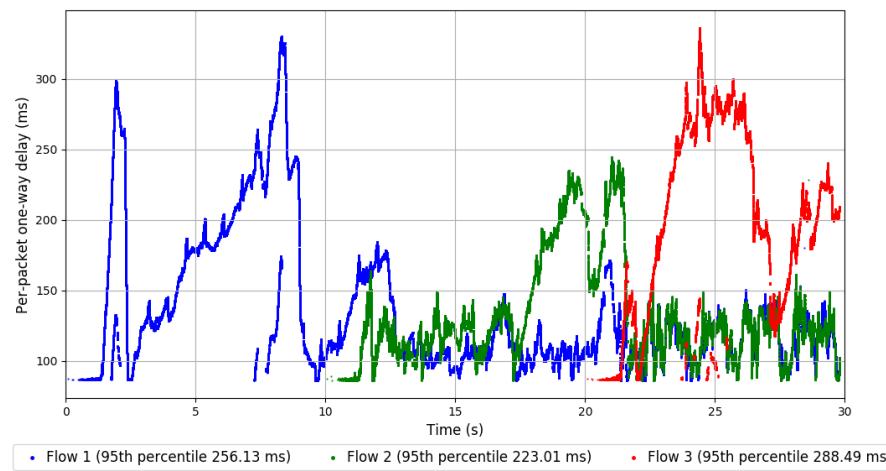
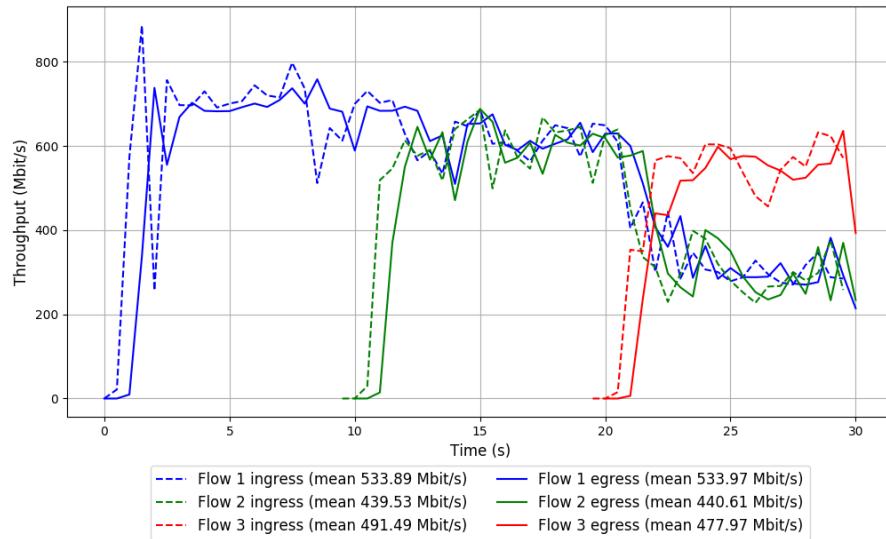


Run 2: Statistics of FillP

```
Start at: 2018-05-22 13:35:02
End at: 2018-05-22 13:35:32
Local clock offset: 0.145 ms
Remote clock offset: 0.902 ms

# Below is generated by plot.py at 2018-05-22 17:31:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 983.33 Mbit/s
95th percentile per-packet one-way delay: 271.627 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 533.97 Mbit/s
95th percentile per-packet one-way delay: 256.134 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 440.61 Mbit/s
95th percentile per-packet one-way delay: 223.015 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 477.97 Mbit/s
95th percentile per-packet one-way delay: 288.487 ms
Loss rate: 4.47%
```

Run 2: Report of FillP — Data Link

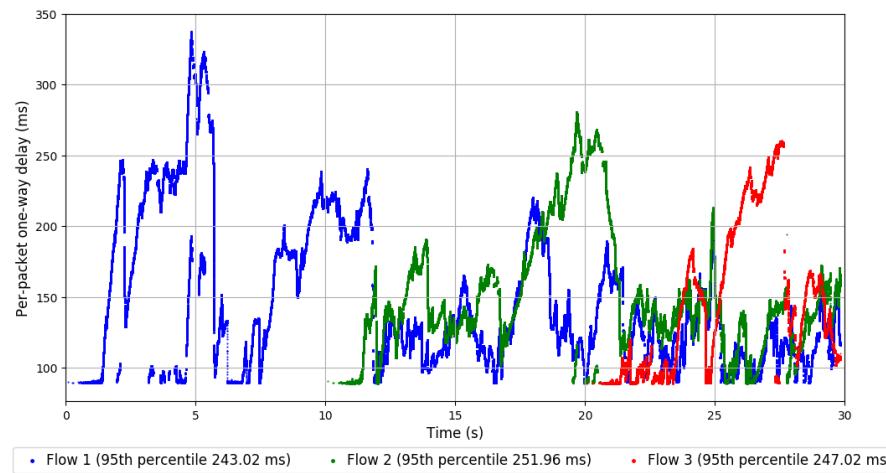
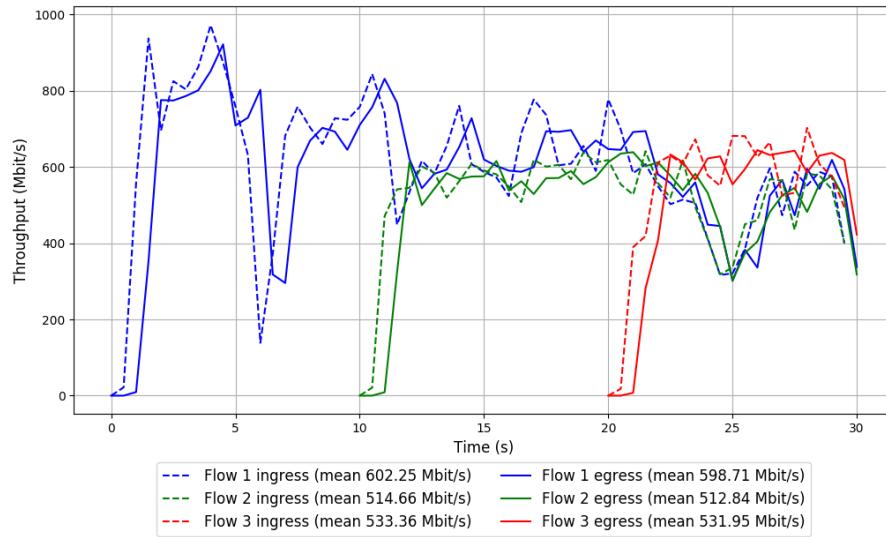


Run 3: Statistics of FillP

```
Start at: 2018-05-22 13:57:37
End at: 2018-05-22 13:58:07
Local clock offset: 3.154 ms
Remote clock offset: 1.007 ms

# Below is generated by plot.py at 2018-05-22 17:34:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1113.01 Mbit/s
95th percentile per-packet one-way delay: 244.983 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 598.71 Mbit/s
95th percentile per-packet one-way delay: 243.023 ms
Loss rate: 1.20%
-- Flow 2:
Average throughput: 512.84 Mbit/s
95th percentile per-packet one-way delay: 251.962 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 531.95 Mbit/s
95th percentile per-packet one-way delay: 247.023 ms
Loss rate: 2.00%
```

Run 3: Report of FillP — Data Link

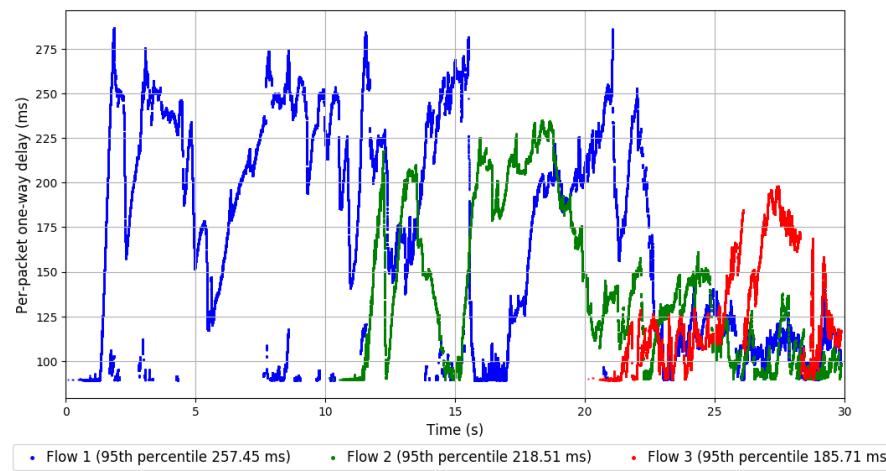
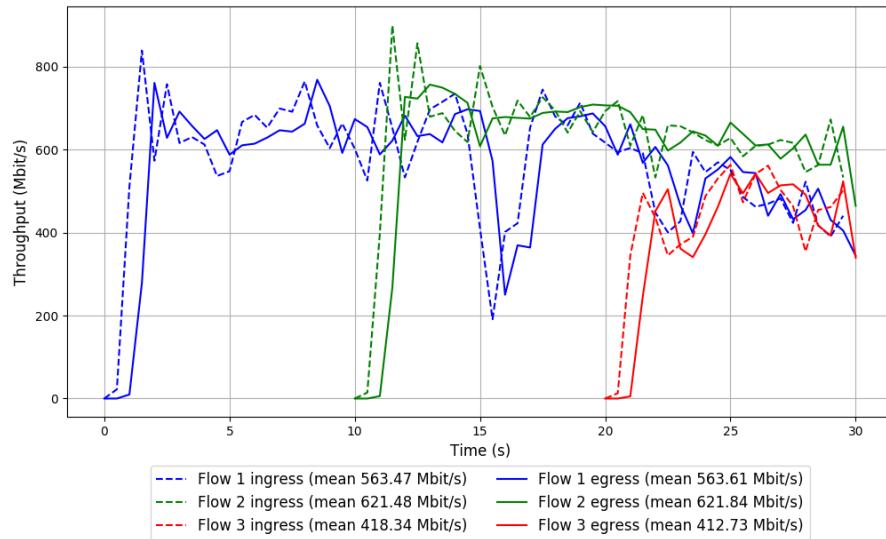


Run 4: Statistics of FillP

```
Start at: 2018-05-22 14:20:15
End at: 2018-05-22 14:20:45
Local clock offset: 3.45 ms
Remote clock offset: 1.248 ms

# Below is generated by plot.py at 2018-05-22 17:34:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1110.93 Mbit/s
95th percentile per-packet one-way delay: 250.321 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 563.61 Mbit/s
95th percentile per-packet one-way delay: 257.454 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 621.84 Mbit/s
95th percentile per-packet one-way delay: 218.510 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 412.73 Mbit/s
95th percentile per-packet one-way delay: 185.713 ms
Loss rate: 3.09%
```

Run 4: Report of FillP — Data Link

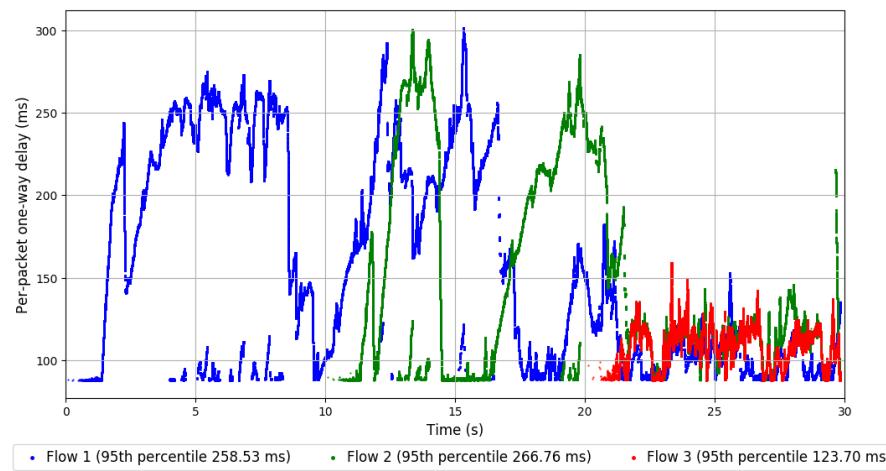
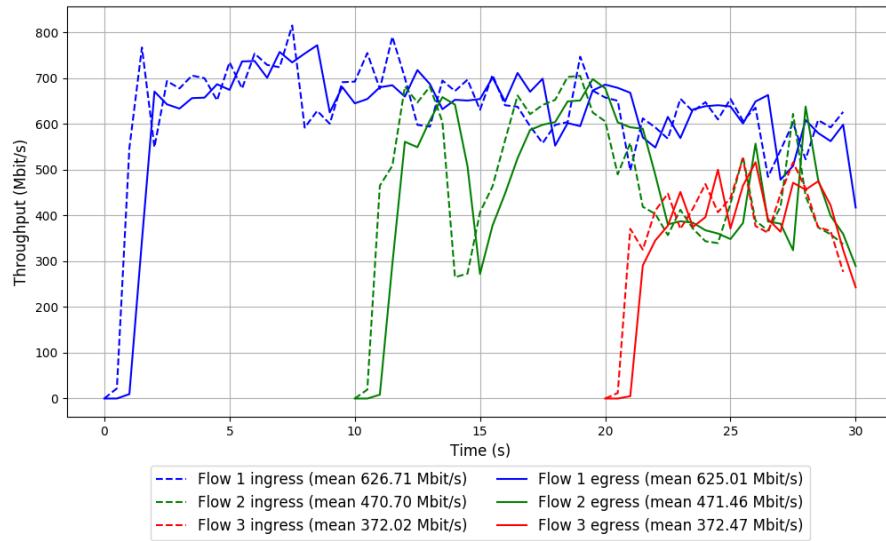


Run 5: Statistics of FillP

```
Start at: 2018-05-22 14:42:41
End at: 2018-05-22 14:43:11
Local clock offset: 1.841 ms
Remote clock offset: 1.224 ms

# Below is generated by plot.py at 2018-05-22 17:34:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1059.52 Mbit/s
95th percentile per-packet one-way delay: 259.280 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 625.01 Mbit/s
95th percentile per-packet one-way delay: 258.531 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 471.46 Mbit/s
95th percentile per-packet one-way delay: 266.759 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 372.47 Mbit/s
95th percentile per-packet one-way delay: 123.705 ms
Loss rate: 1.71%
```

Run 5: Report of FillP — Data Link

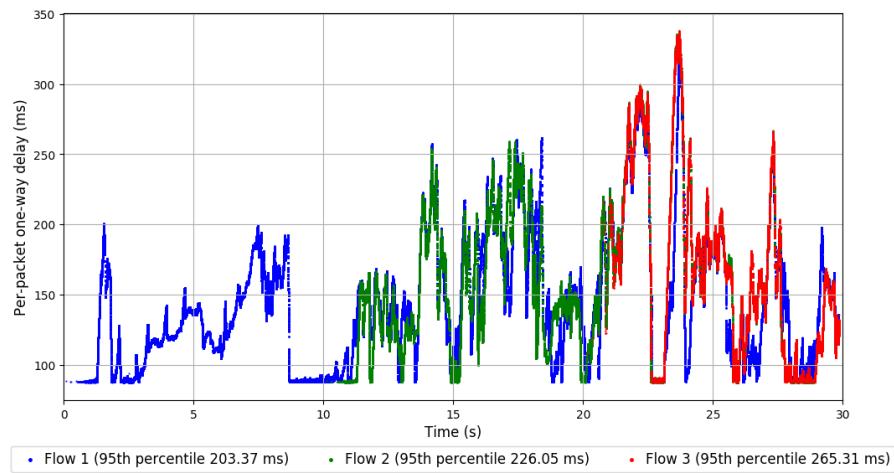
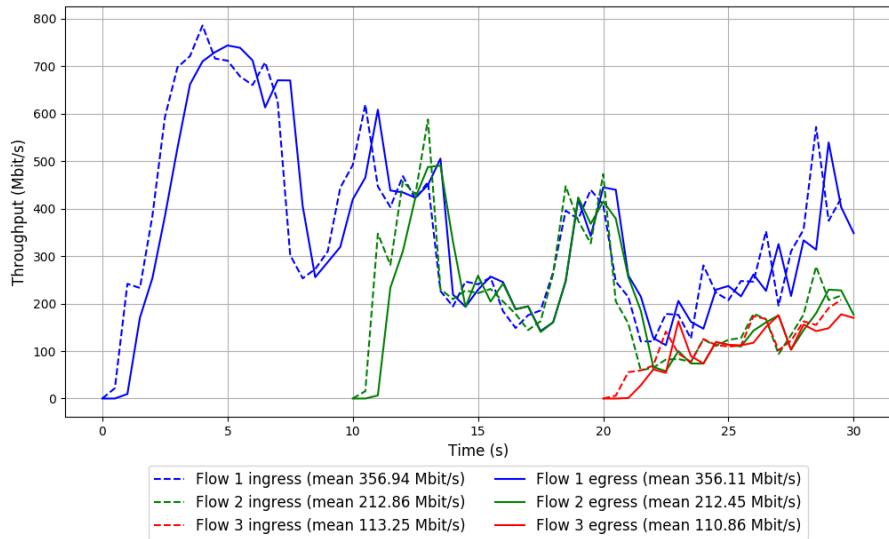


Run 6: Statistics of FillP

```
Start at: 2018-05-22 15:05:18
End at: 2018-05-22 15:05:48
Local clock offset: 1.729 ms
Remote clock offset: 1.48 ms

# Below is generated by plot.py at 2018-05-22 17:34:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 533.13 Mbit/s
95th percentile per-packet one-way delay: 214.669 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 356.11 Mbit/s
95th percentile per-packet one-way delay: 203.367 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 212.45 Mbit/s
95th percentile per-packet one-way delay: 226.048 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 110.86 Mbit/s
95th percentile per-packet one-way delay: 265.306 ms
Loss rate: 3.99%
```

Run 6: Report of FillP — Data Link

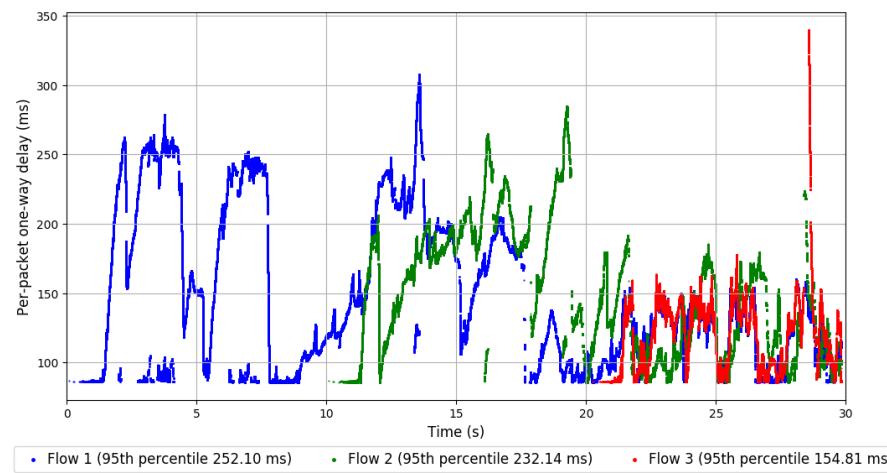
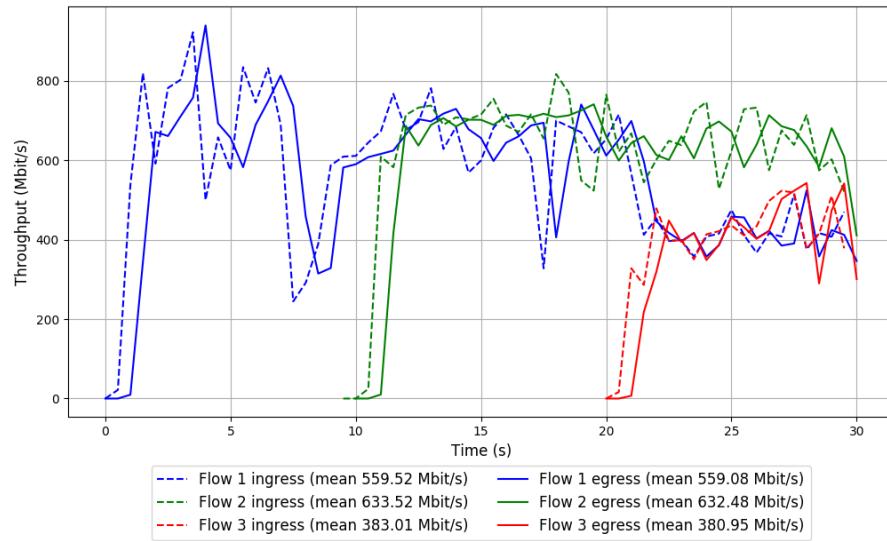


Run 7: Statistics of FillP

```
Start at: 2018-05-22 15:27:30
End at: 2018-05-22 15:28:00
Local clock offset: 0.096 ms
Remote clock offset: 1.455 ms

# Below is generated by plot.py at 2018-05-22 17:36:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1103.46 Mbit/s
95th percentile per-packet one-way delay: 245.466 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 559.08 Mbit/s
95th percentile per-packet one-way delay: 252.098 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 632.48 Mbit/s
95th percentile per-packet one-way delay: 232.140 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 380.95 Mbit/s
95th percentile per-packet one-way delay: 154.805 ms
Loss rate: 2.21%
```

Run 7: Report of FillP — Data Link

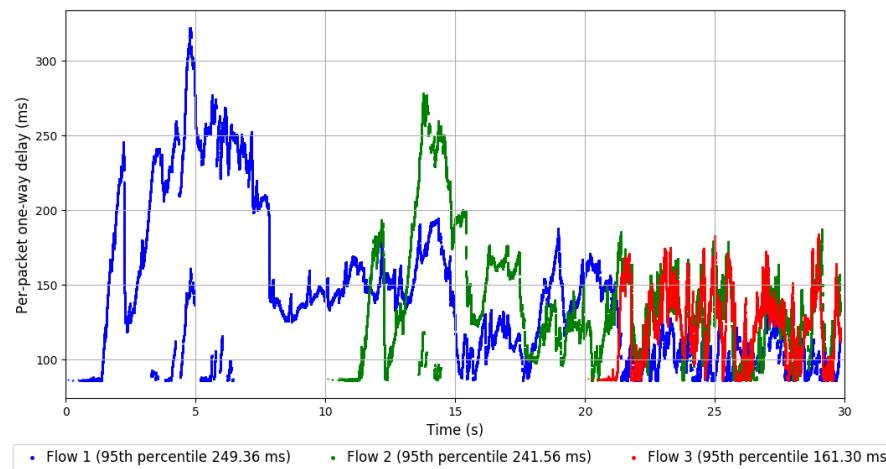
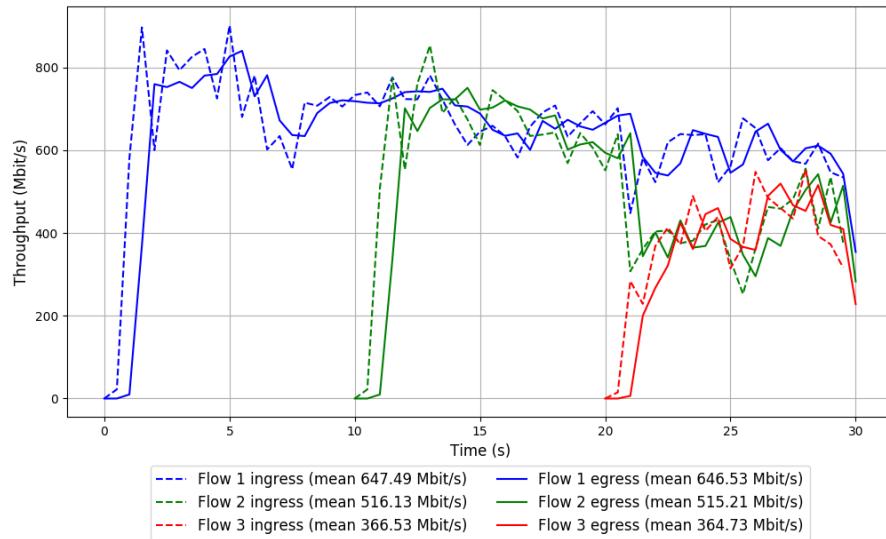


Run 8: Statistics of FillP

```
Start at: 2018-05-22 15:50:09
End at: 2018-05-22 15:50:39
Local clock offset: 0.086 ms
Remote clock offset: 0.333 ms

# Below is generated by plot.py at 2018-05-22 17:37:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1107.80 Mbit/s
95th percentile per-packet one-way delay: 245.359 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 646.53 Mbit/s
95th percentile per-packet one-way delay: 249.358 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 515.21 Mbit/s
95th percentile per-packet one-way delay: 241.559 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 364.73 Mbit/s
95th percentile per-packet one-way delay: 161.303 ms
Loss rate: 2.23%
```

Run 8: Report of FillP — Data Link

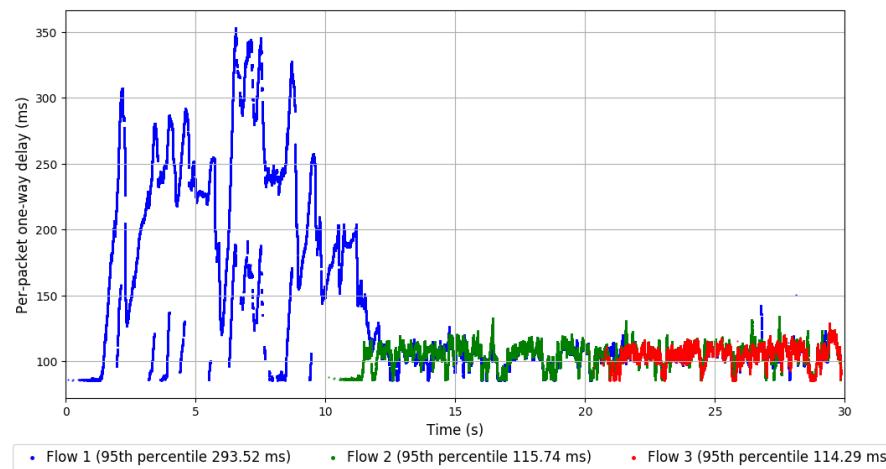
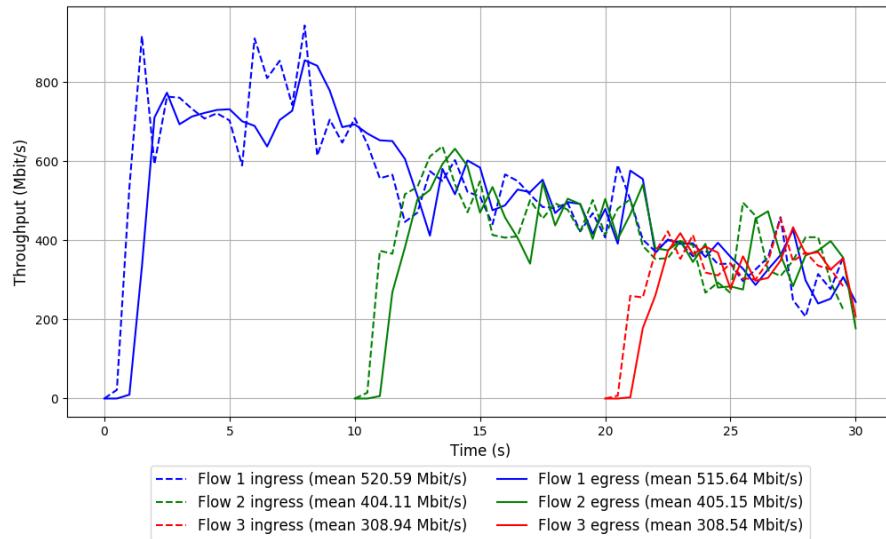


Run 9: Statistics of FillP

```
Start at: 2018-05-22 16:12:46
End at: 2018-05-22 16:13:16
Local clock offset: -0.255 ms
Remote clock offset: -0.505 ms

# Below is generated by plot.py at 2018-05-22 17:44:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 884.75 Mbit/s
95th percentile per-packet one-way delay: 276.732 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 515.64 Mbit/s
95th percentile per-packet one-way delay: 293.519 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 405.15 Mbit/s
95th percentile per-packet one-way delay: 115.736 ms
Loss rate: 0.62%
-- Flow 3:
Average throughput: 308.54 Mbit/s
95th percentile per-packet one-way delay: 114.294 ms
Loss rate: 2.09%
```

Run 9: Report of FillP — Data Link

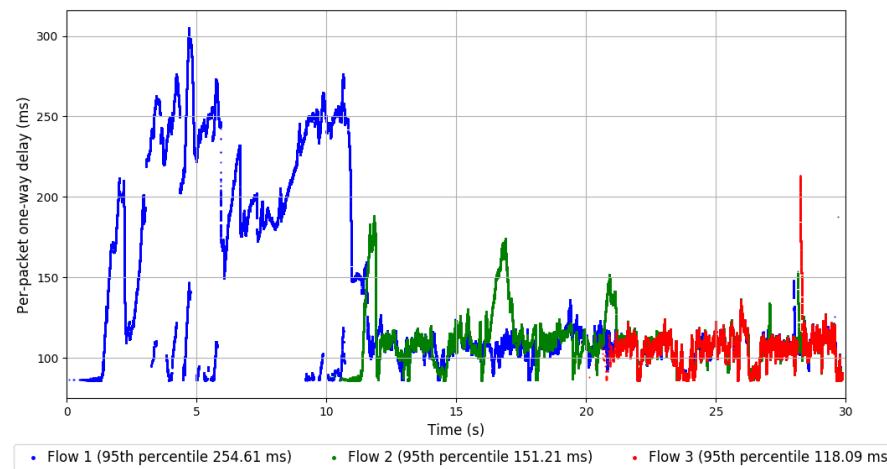
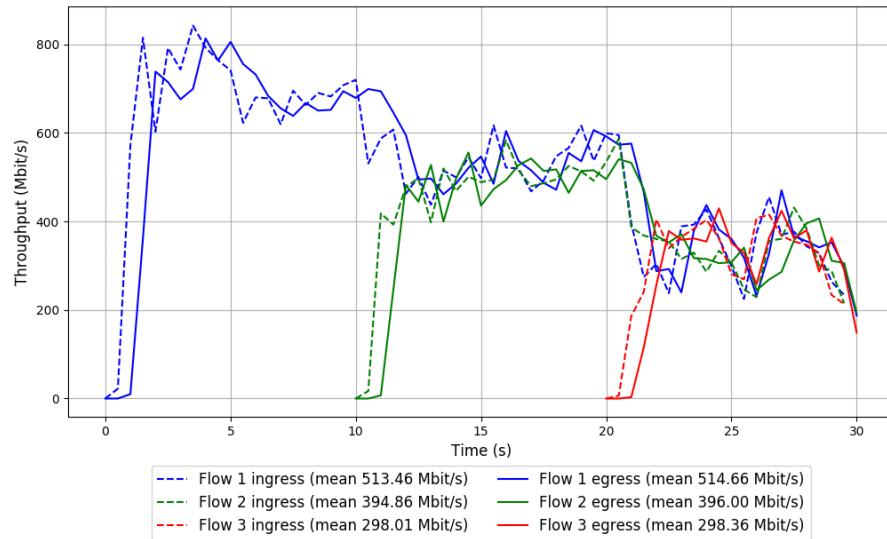


Run 10: Statistics of FillP

```
Start at: 2018-05-22 16:35:19
End at: 2018-05-22 16:35:49
Local clock offset: -0.02 ms
Remote clock offset: -0.804 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 874.89 Mbit/s
95th percentile per-packet one-way delay: 249.030 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 514.66 Mbit/s
95th percentile per-packet one-way delay: 254.609 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 396.00 Mbit/s
95th percentile per-packet one-way delay: 151.205 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 298.36 Mbit/s
95th percentile per-packet one-way delay: 118.089 ms
Loss rate: 1.62%
```

Run 10: Report of FillP — Data Link

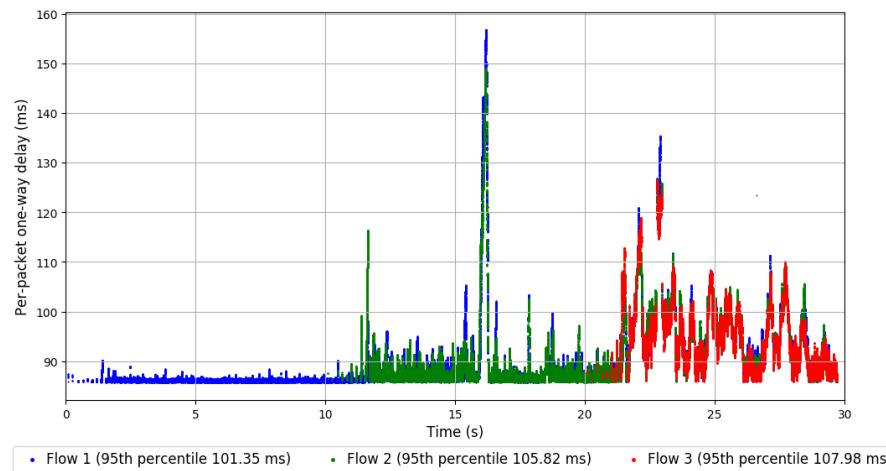
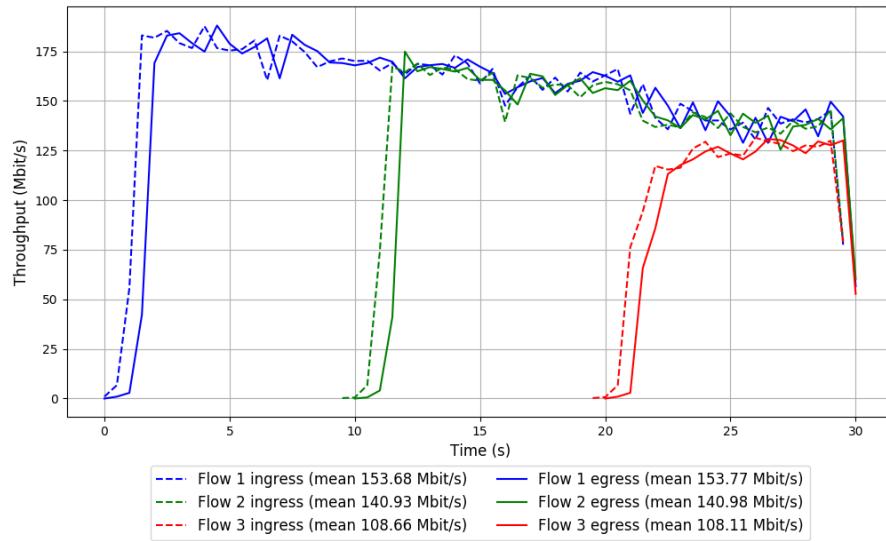


Run 1: Statistics of Indigo

```
Start at: 2018-05-22 13:05:59
End at: 2018-05-22 13:06:29
Local clock offset: -0.243 ms
Remote clock offset: 0.629 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 282.30 Mbit/s
95th percentile per-packet one-way delay: 104.293 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 153.77 Mbit/s
95th percentile per-packet one-way delay: 101.353 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 140.98 Mbit/s
95th percentile per-packet one-way delay: 105.821 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 108.11 Mbit/s
95th percentile per-packet one-way delay: 107.980 ms
Loss rate: 2.27%
```

Run 1: Report of Indigo — Data Link

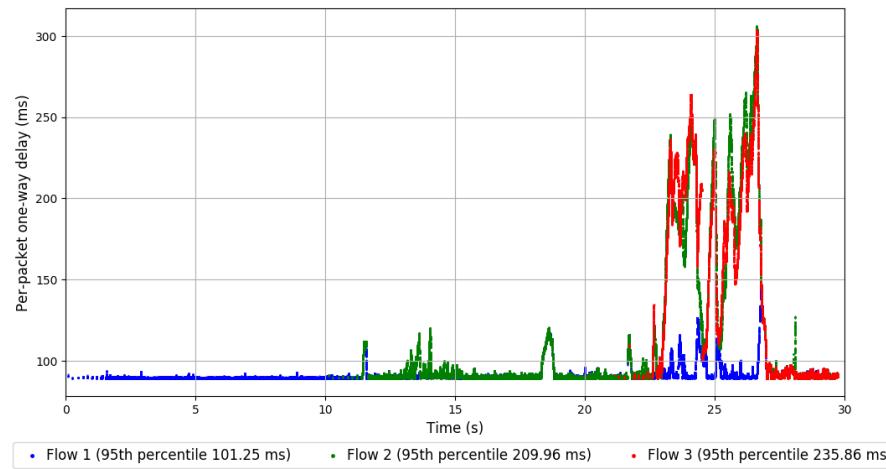
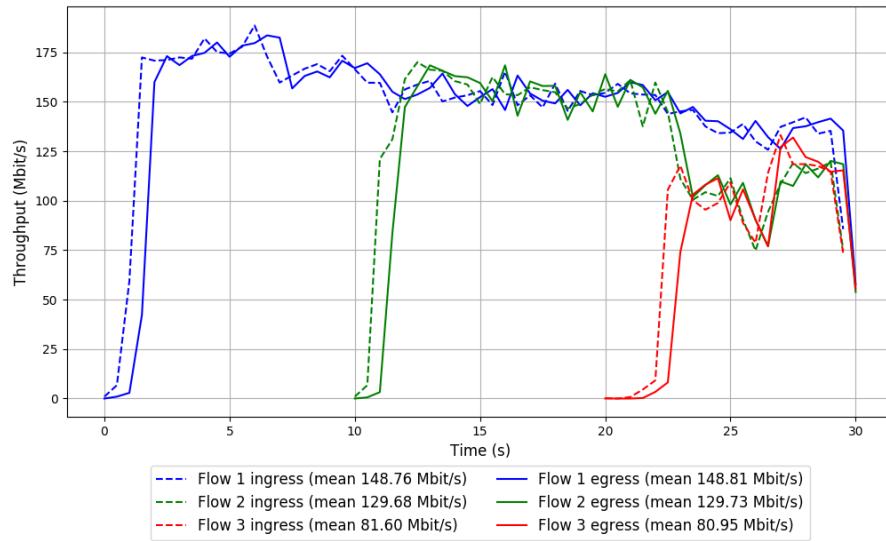


Run 2: Statistics of Indigo

```
Start at: 2018-05-22 13:28:35
End at: 2018-05-22 13:29:05
Local clock offset: 3.454 ms
Remote clock offset: 0.878 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 260.95 Mbit/s
95th percentile per-packet one-way delay: 191.559 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 148.81 Mbit/s
95th percentile per-packet one-way delay: 101.246 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 129.73 Mbit/s
95th percentile per-packet one-way delay: 209.955 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 80.95 Mbit/s
95th percentile per-packet one-way delay: 235.856 ms
Loss rate: 2.55%
```

Run 2: Report of Indigo — Data Link

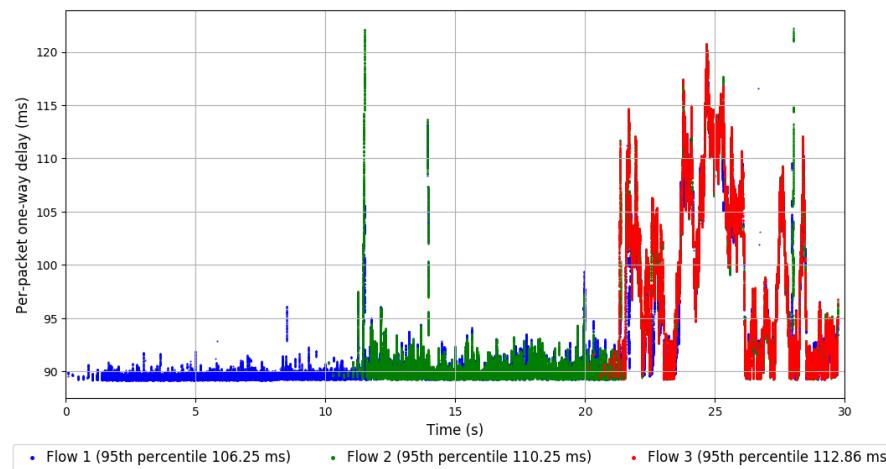
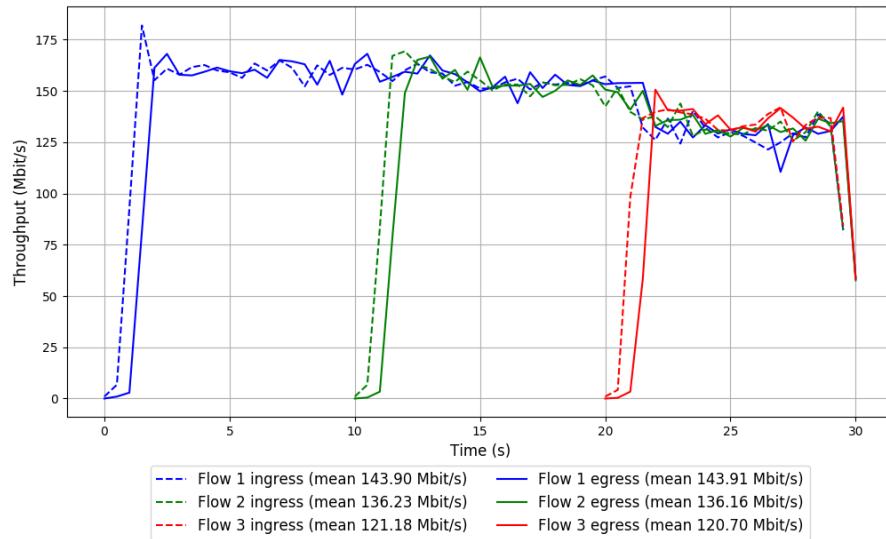


Run 3: Statistics of Indigo

```
Start at: 2018-05-22 13:51:08
End at: 2018-05-22 13:51:38
Local clock offset: 3.411 ms
Remote clock offset: 1.019 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.97 Mbit/s
95th percentile per-packet one-way delay: 109.642 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 143.91 Mbit/s
95th percentile per-packet one-way delay: 106.254 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 136.16 Mbit/s
95th percentile per-packet one-way delay: 110.248 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 120.70 Mbit/s
95th percentile per-packet one-way delay: 112.864 ms
Loss rate: 2.15%
```

Run 3: Report of Indigo — Data Link

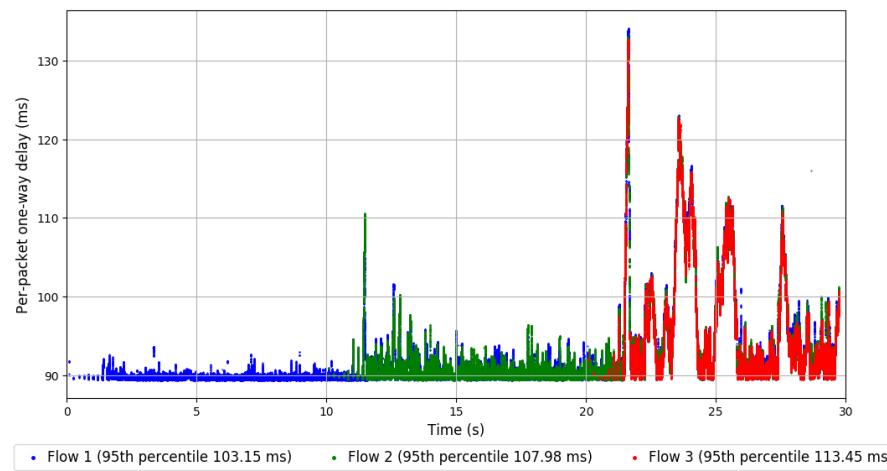
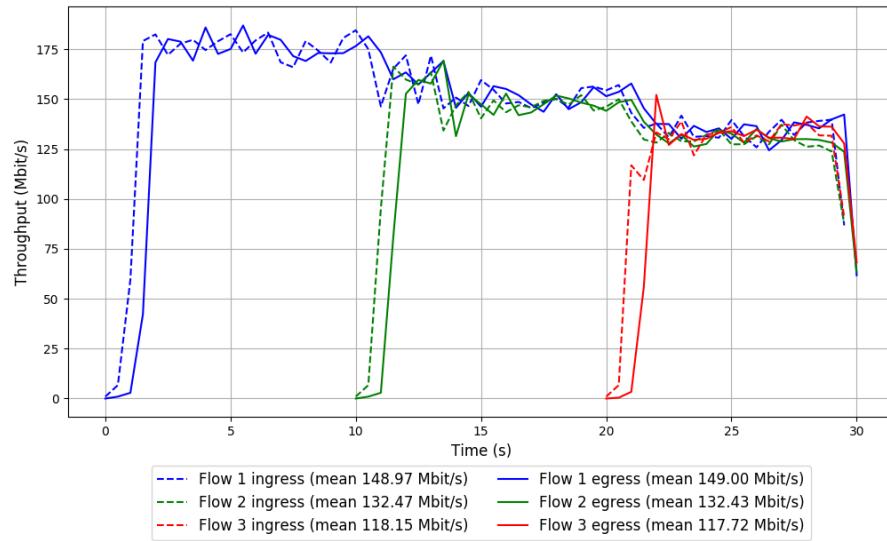


Run 4: Statistics of Indigo

```
Start at: 2018-05-22 14:13:43
End at: 2018-05-22 14:14:13
Local clock offset: 3.604 ms
Remote clock offset: 1.104 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.91 Mbit/s
95th percentile per-packet one-way delay: 107.918 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 149.00 Mbit/s
95th percentile per-packet one-way delay: 103.150 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 132.43 Mbit/s
95th percentile per-packet one-way delay: 107.979 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 117.72 Mbit/s
95th percentile per-packet one-way delay: 113.448 ms
Loss rate: 2.14%
```

Run 4: Report of Indigo — Data Link

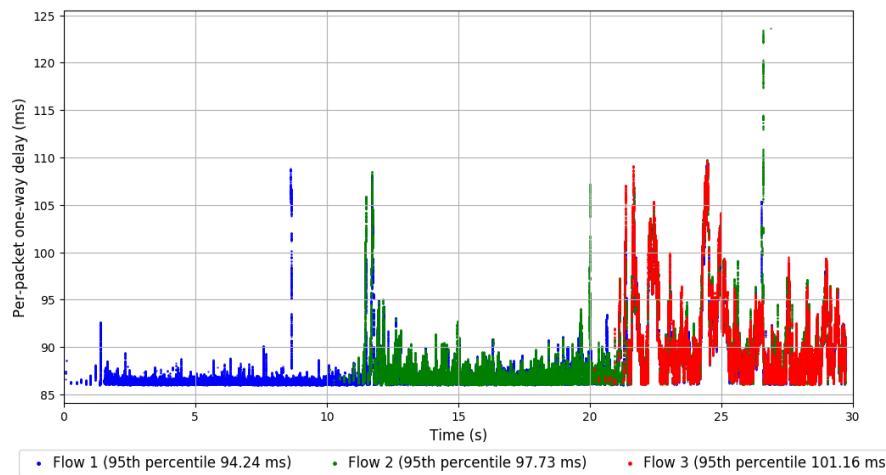
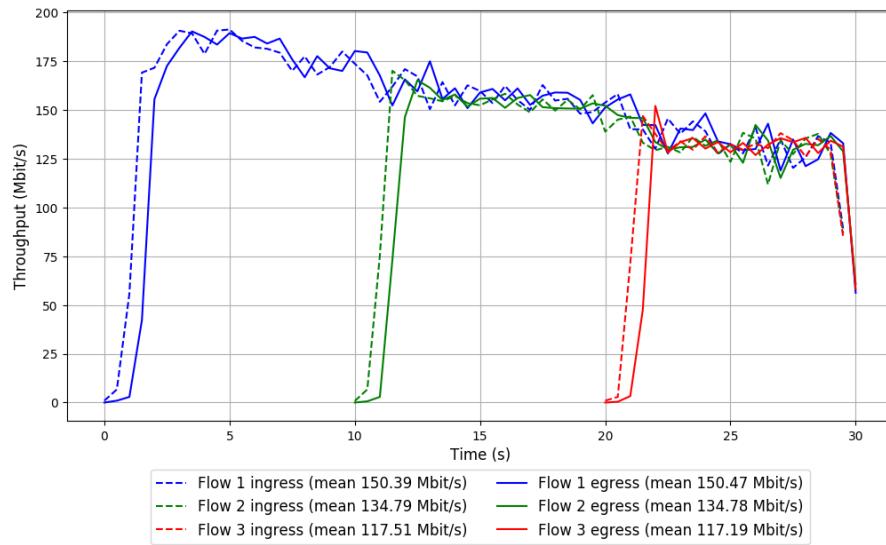


Run 5: Statistics of Indigo

```
Start at: 2018-05-22 14:36:13
End at: 2018-05-22 14:36:43
Local clock offset: 0.188 ms
Remote clock offset: 1.193 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 277.51 Mbit/s
95th percentile per-packet one-way delay: 97.104 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 150.47 Mbit/s
95th percentile per-packet one-way delay: 94.242 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 134.78 Mbit/s
95th percentile per-packet one-way delay: 97.732 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 117.19 Mbit/s
95th percentile per-packet one-way delay: 101.162 ms
Loss rate: 2.15%
```

Run 5: Report of Indigo — Data Link

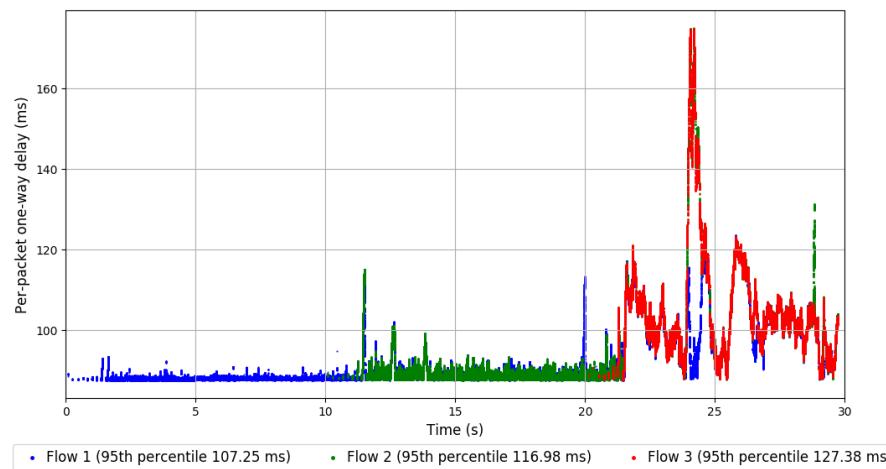
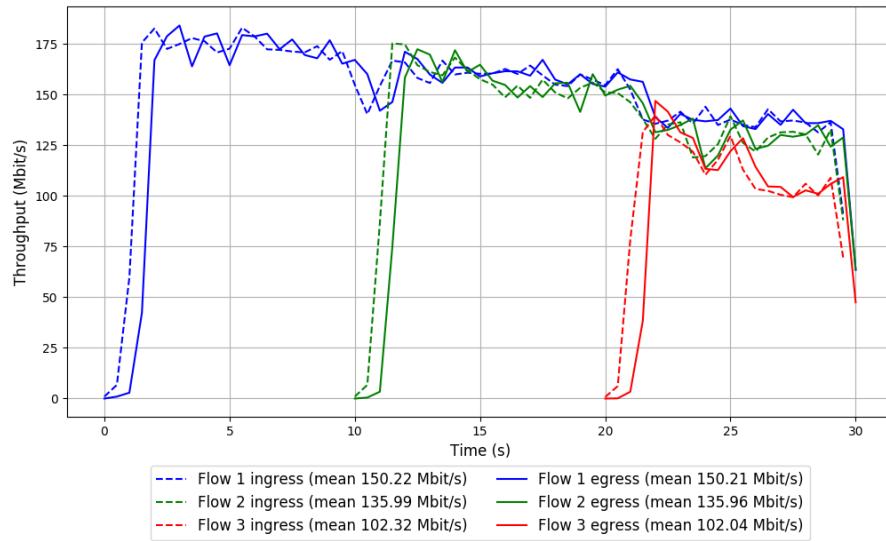


Run 6: Statistics of Indigo

```
Start at: 2018-05-22 14:58:51
End at: 2018-05-22 14:59:21
Local clock offset: 1.777 ms
Remote clock offset: 1.318 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.22 Mbit/s
95th percentile per-packet one-way delay: 114.880 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 150.21 Mbit/s
95th percentile per-packet one-way delay: 107.246 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 135.96 Mbit/s
95th percentile per-packet one-way delay: 116.984 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 102.04 Mbit/s
95th percentile per-packet one-way delay: 127.376 ms
Loss rate: 2.00%
```

Run 6: Report of Indigo — Data Link

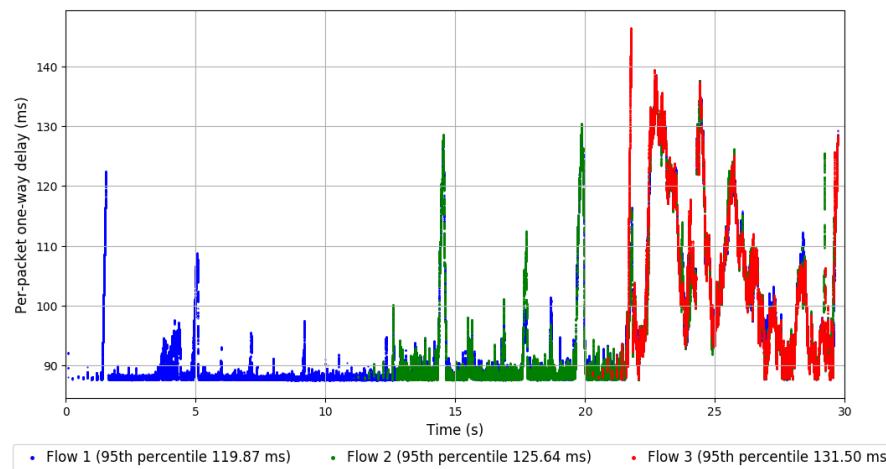
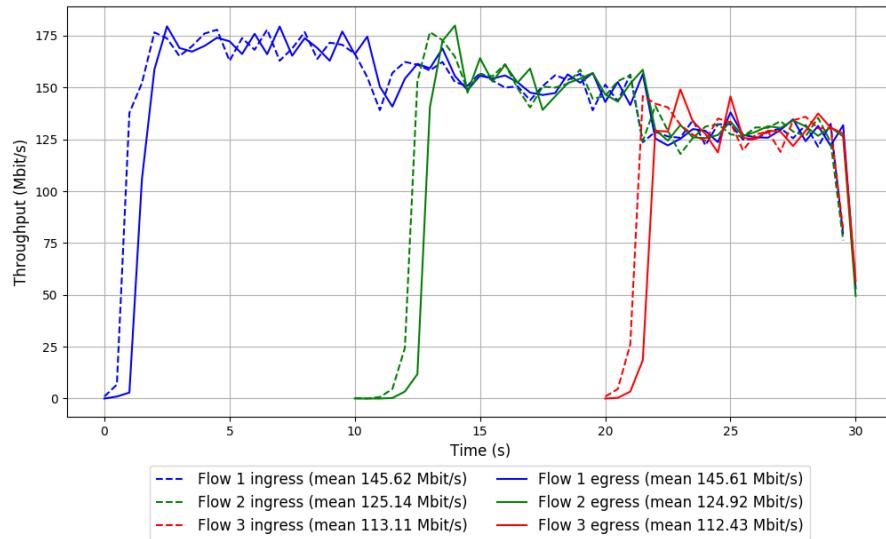


Run 7: Statistics of Indigo

```
Start at: 2018-05-22 15:20:58
End at: 2018-05-22 15:21:28
Local clock offset: 1.918 ms
Remote clock offset: 1.493 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 264.92 Mbit/s
95th percentile per-packet one-way delay: 125.134 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 145.61 Mbit/s
95th percentile per-packet one-way delay: 119.874 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 124.92 Mbit/s
95th percentile per-packet one-way delay: 125.636 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 112.43 Mbit/s
95th percentile per-packet one-way delay: 131.497 ms
Loss rate: 2.36%
```

Run 7: Report of Indigo — Data Link

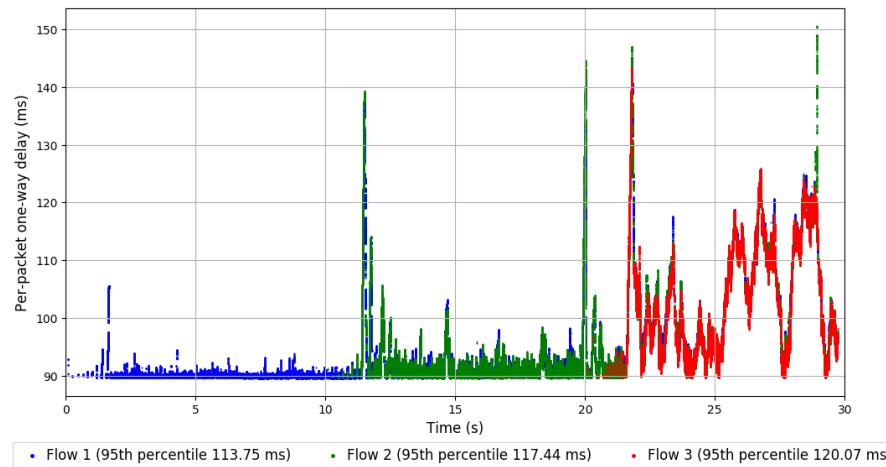
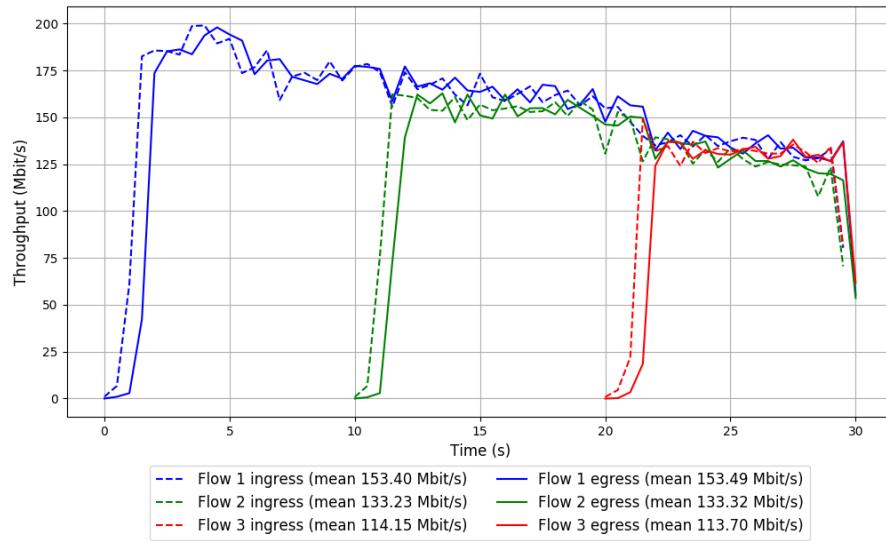


Run 8: Statistics of Indigo

```
Start at: 2018-05-22 15:43:39
End at: 2018-05-22 15:44:09
Local clock offset: 3.824 ms
Remote clock offset: 0.979 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.67 Mbit/s
95th percentile per-packet one-way delay: 116.808 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 153.49 Mbit/s
95th percentile per-packet one-way delay: 113.755 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 133.32 Mbit/s
95th percentile per-packet one-way delay: 117.436 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 113.70 Mbit/s
95th percentile per-packet one-way delay: 120.068 ms
Loss rate: 2.18%
```

Run 8: Report of Indigo — Data Link

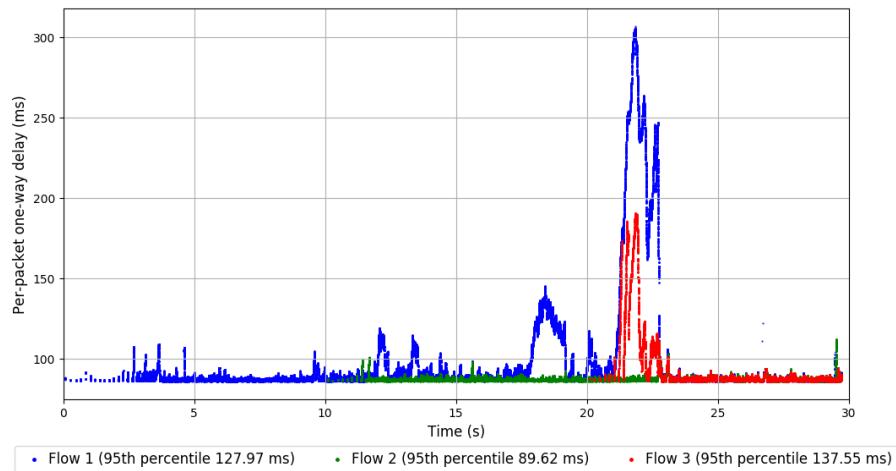
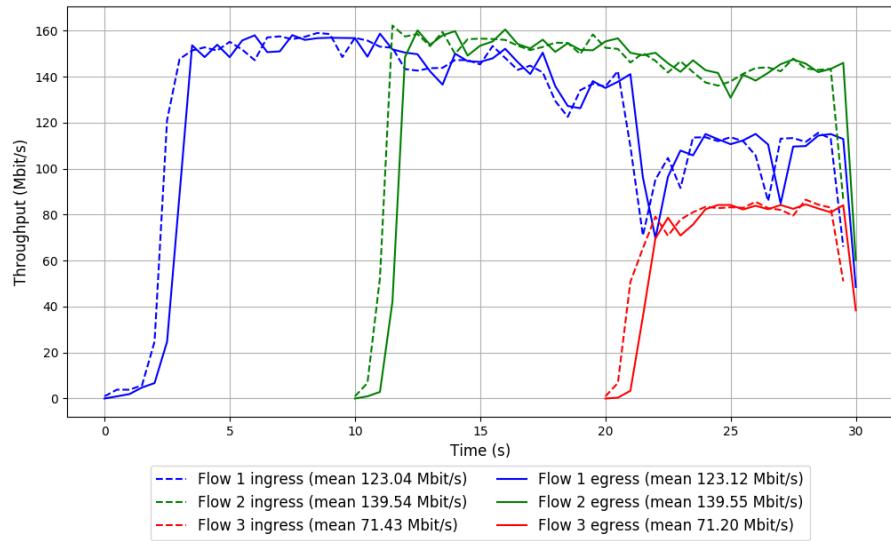


Run 9: Statistics of Indigo

```
Start at: 2018-05-22 16:06:17
End at: 2018-05-22 16:06:47
Local clock offset: -0.098 ms
Remote clock offset: -0.54 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 238.67 Mbit/s
95th percentile per-packet one-way delay: 112.445 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 123.12 Mbit/s
95th percentile per-packet one-way delay: 127.975 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 139.55 Mbit/s
95th percentile per-packet one-way delay: 89.622 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 137.554 ms
Loss rate: 2.08%
```

Run 9: Report of Indigo — Data Link

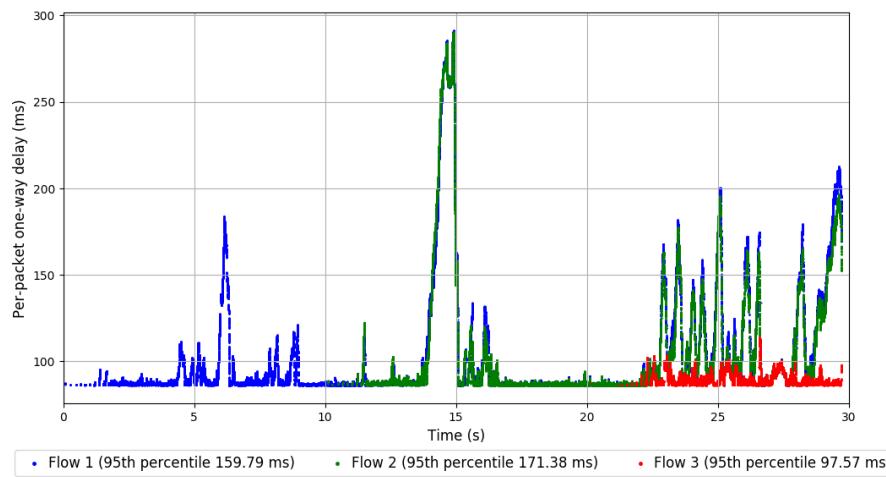
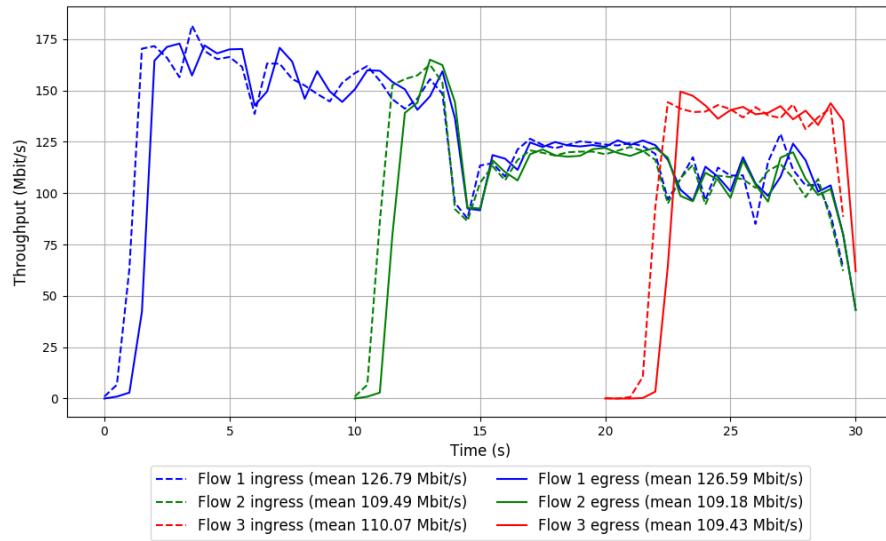


Run 10: Statistics of Indigo

```
Start at: 2018-05-22 16:28:52
End at: 2018-05-22 16:29:22
Local clock offset: 0.193 ms
Remote clock offset: -0.62 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.27 Mbit/s
95th percentile per-packet one-way delay: 157.561 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 126.59 Mbit/s
95th percentile per-packet one-way delay: 159.794 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 109.18 Mbit/s
95th percentile per-packet one-way delay: 171.383 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 109.43 Mbit/s
95th percentile per-packet one-way delay: 97.570 ms
Loss rate: 2.38%
```

Run 10: Report of Indigo — Data Link

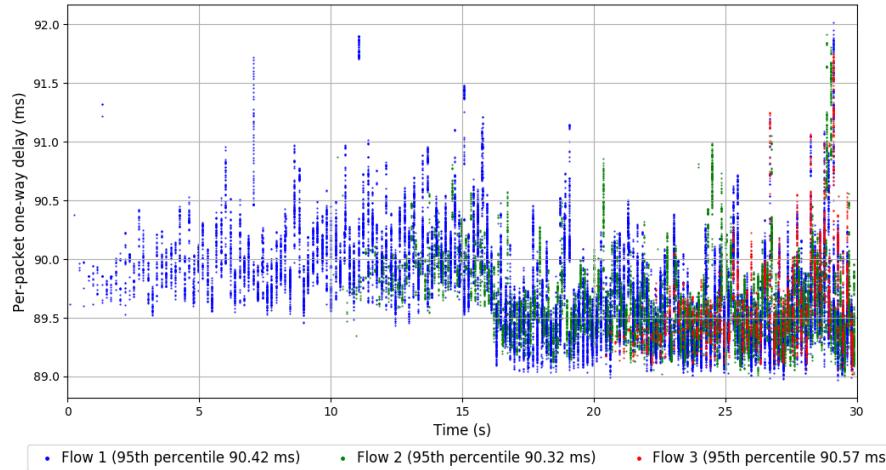
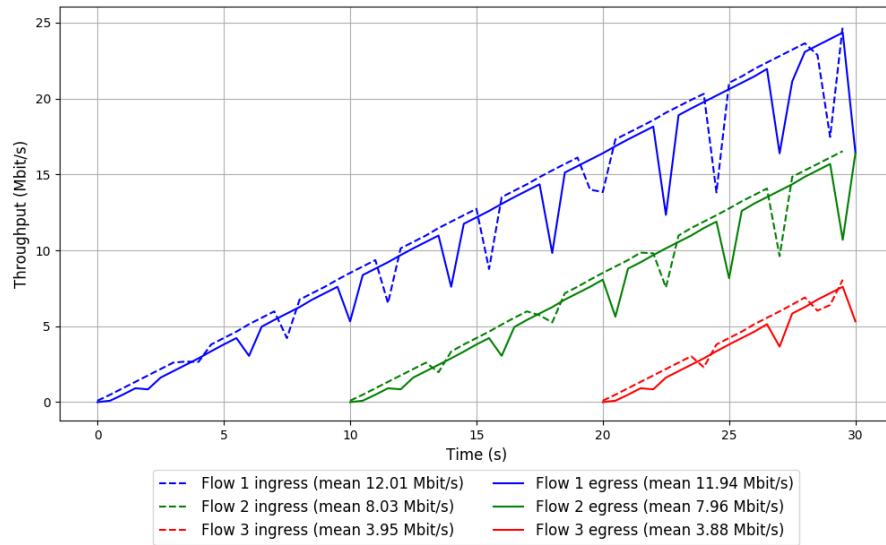


Run 1: Statistics of LEDBAT

```
Start at: 2018-05-22 13:20:20
End at: 2018-05-22 13:20:50
Local clock offset: 3.084 ms
Remote clock offset: 0.804 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.46 Mbit/s
95th percentile per-packet one-way delay: 90.410 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.94 Mbit/s
95th percentile per-packet one-way delay: 90.418 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 90.322 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 90.570 ms
Loss rate: 3.52%
```

Run 1: Report of LEDBAT — Data Link

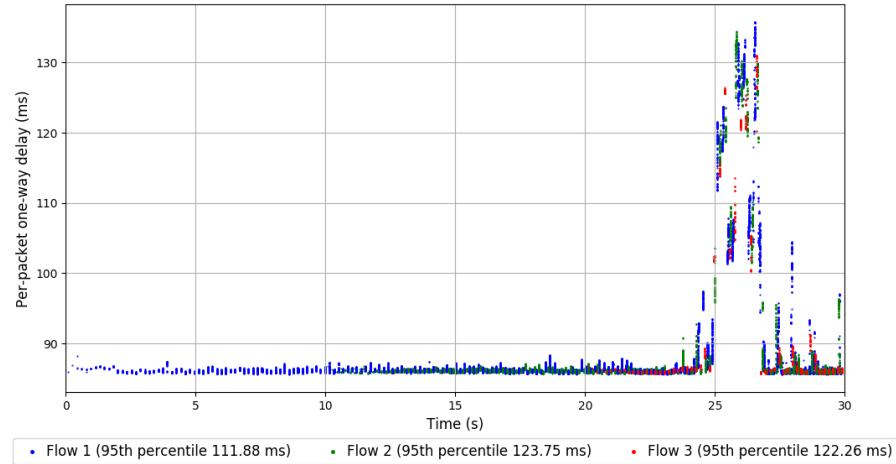
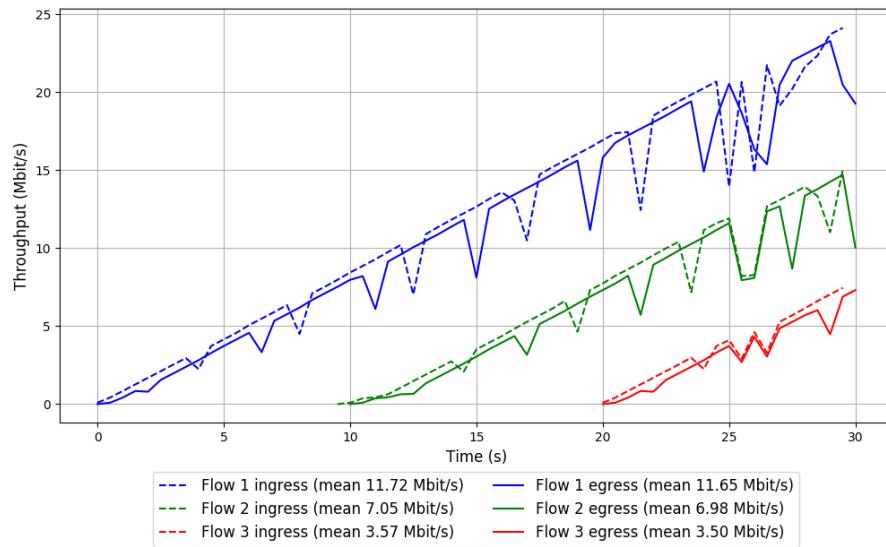


Run 2: Statistics of LEDBAT

```
Start at: 2018-05-22 13:42:54
End at: 2018-05-22 13:43:24
Local clock offset: -0.206 ms
Remote clock offset: 0.975 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.40 Mbit/s
95th percentile per-packet one-way delay: 120.091 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 111.883 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 123.752 ms
Loss rate: 1.82%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 122.259 ms
Loss rate: 3.56%
```

Run 2: Report of LEDBAT — Data Link

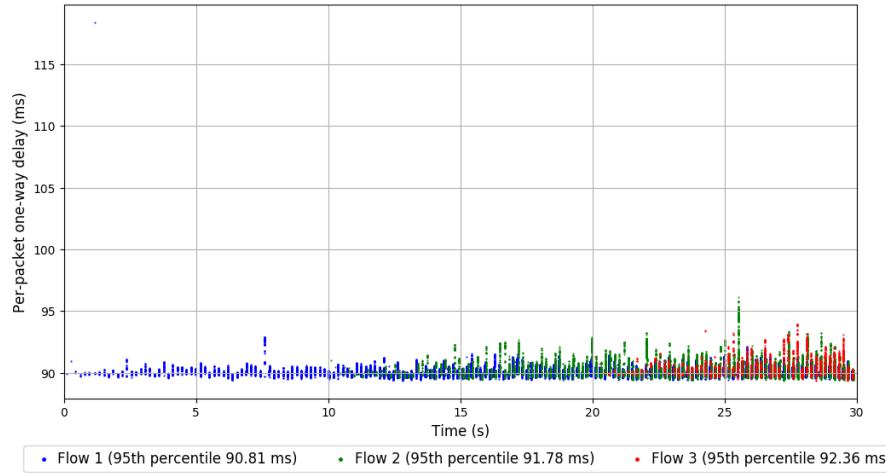
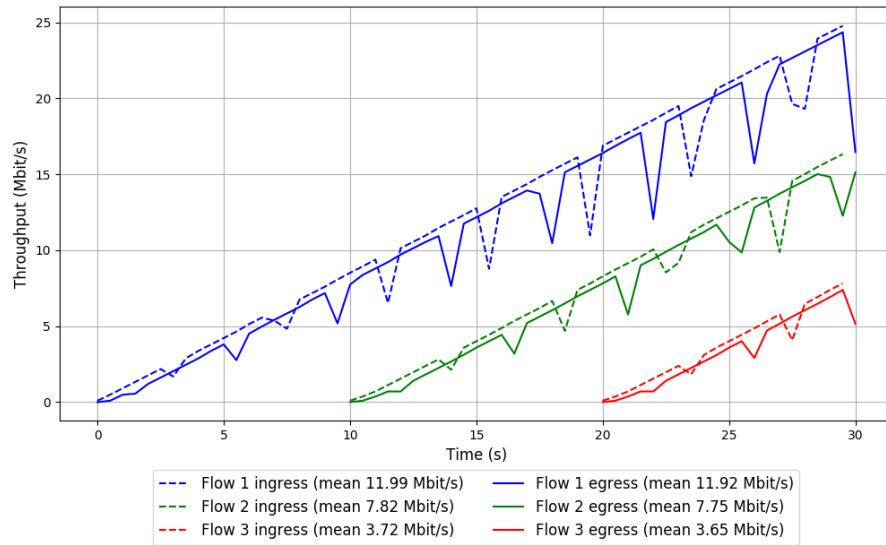


Run 3: Statistics of LEDBAT

```
Start at: 2018-05-22 14:05:28
End at: 2018-05-22 14:05:58
Local clock offset: 3.64 ms
Remote clock offset: 1.134 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.25 Mbit/s
95th percentile per-packet one-way delay: 91.249 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 90.812 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.75 Mbit/s
95th percentile per-packet one-way delay: 91.777 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 92.357 ms
Loss rate: 3.59%
```

Run 3: Report of LEDBAT — Data Link

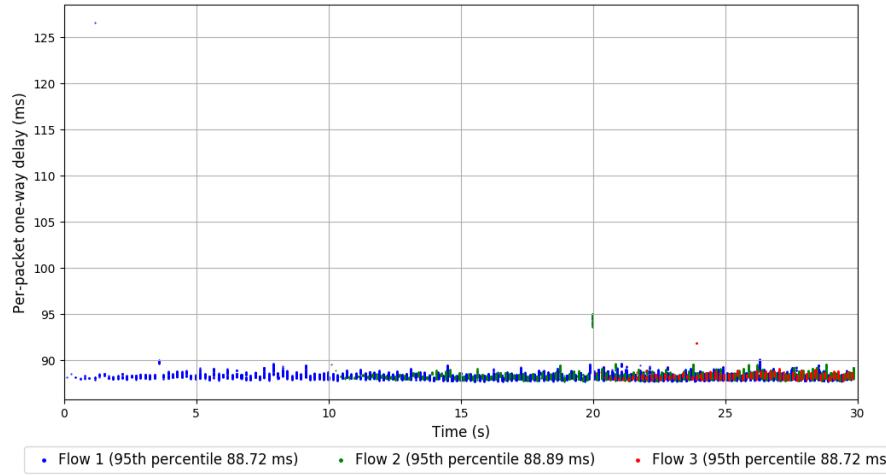
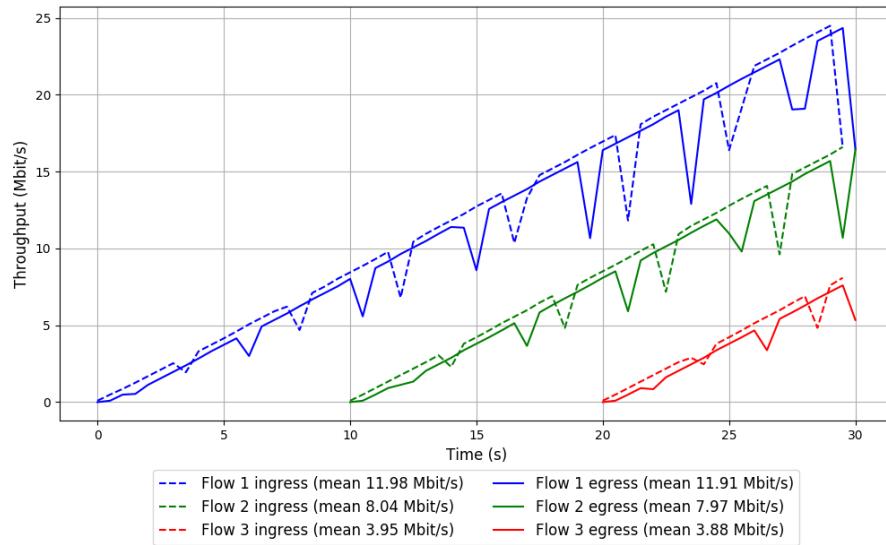


Run 4: Statistics of LEDBAT

```
Start at: 2018-05-22 14:28:02
End at: 2018-05-22 14:28:32
Local clock offset: 1.882 ms
Remote clock offset: 1.136 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 88.784 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 88.725 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 88.895 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 88.720 ms
Loss rate: 3.52%
```

Run 4: Report of LEDBAT — Data Link

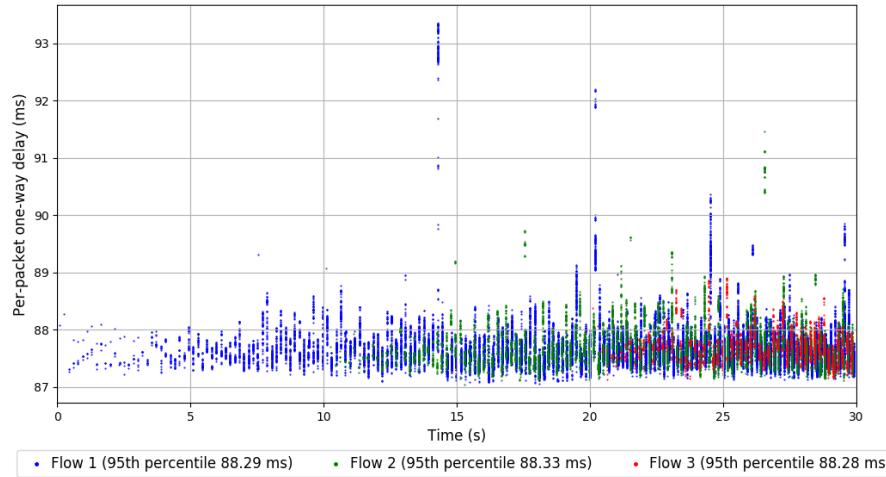
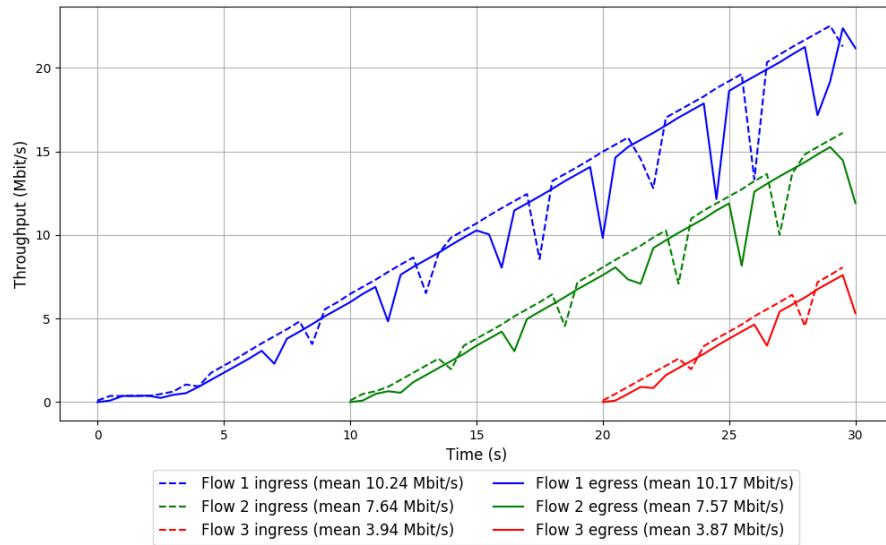


Run 5: Statistics of LEDBAT

```
Start at: 2018-05-22 14:50:36
End at: 2018-05-22 14:51:06
Local clock offset: 1.298 ms
Remote clock offset: 1.288 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 88.308 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 88.292 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 88.332 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 88.275 ms
Loss rate: 3.52%
```

Run 5: Report of LEDBAT — Data Link

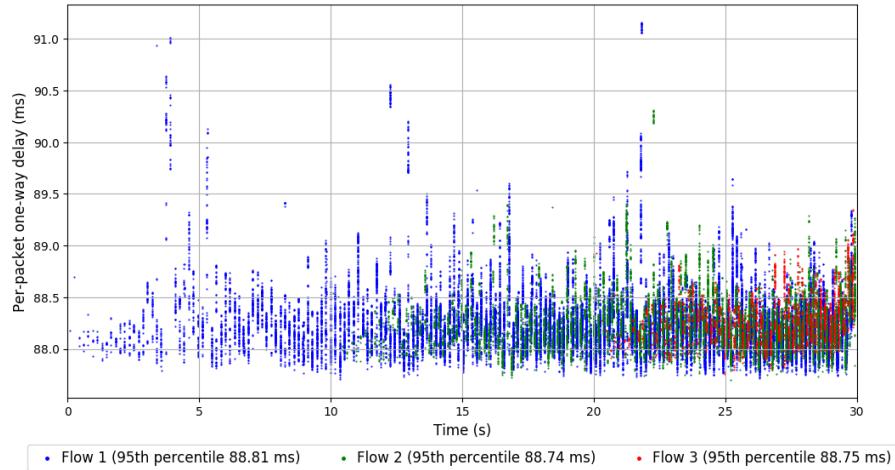
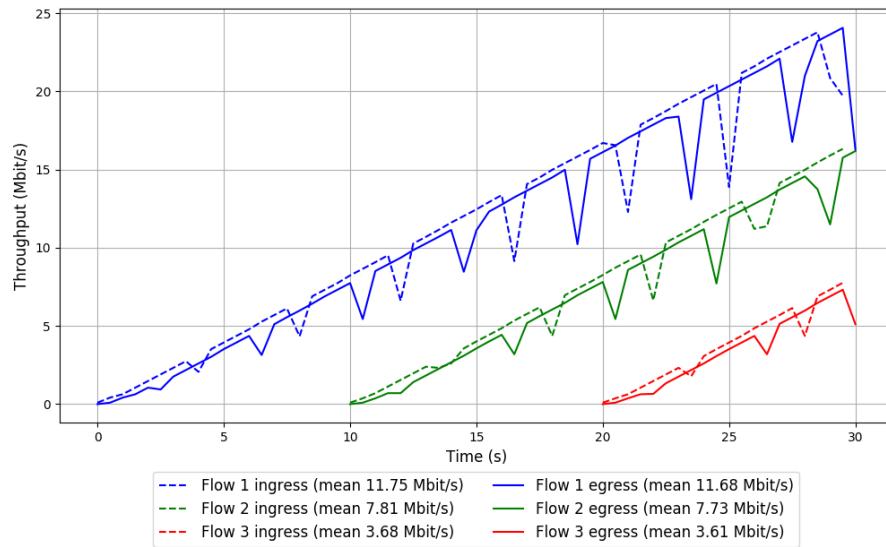


Run 6: Statistics of LEDBAT

```
Start at: 2018-05-22 15:12:46
End at: 2018-05-22 15:13:16
Local clock offset: 1.93 ms
Remote clock offset: 1.412 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.94 Mbit/s
95th percentile per-packet one-way delay: 88.788 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 88.812 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 7.73 Mbit/s
95th percentile per-packet one-way delay: 88.743 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 88.751 ms
Loss rate: 3.64%
```

Run 6: Report of LEDBAT — Data Link

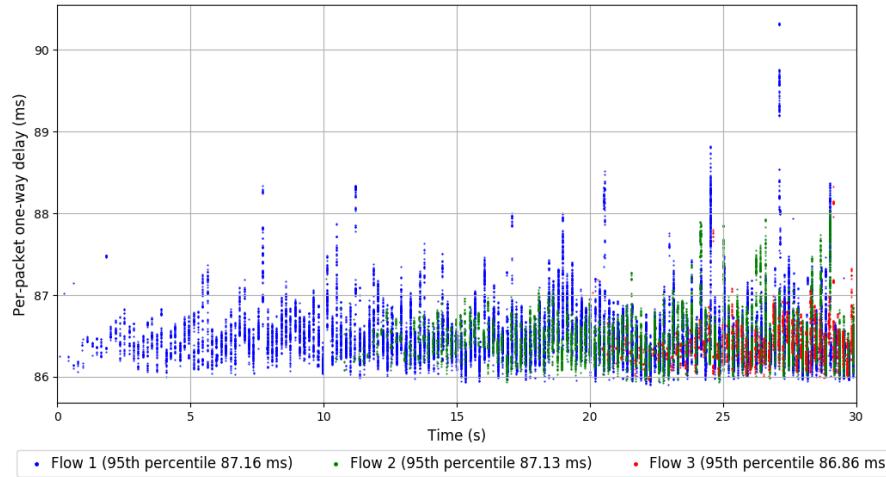
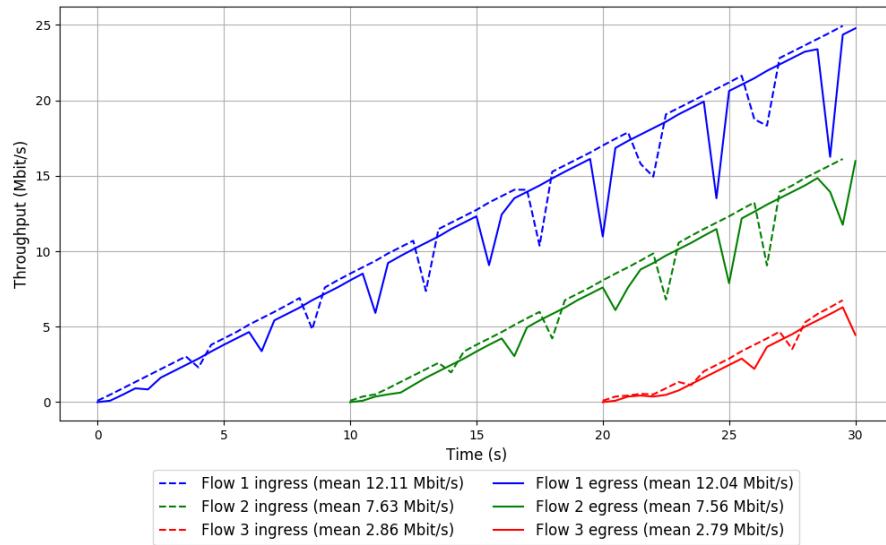


Run 7: Statistics of LEDBAT

```
Start at: 2018-05-22 15:35:21
End at: 2018-05-22 15:35:51
Local clock offset: 0.161 ms
Remote clock offset: 1.466 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.97 Mbit/s
95th percentile per-packet one-way delay: 87.138 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 87.160 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 7.56 Mbit/s
95th percentile per-packet one-way delay: 87.127 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 86.861 ms
Loss rate: 4.07%
```

Run 7: Report of LEDBAT — Data Link

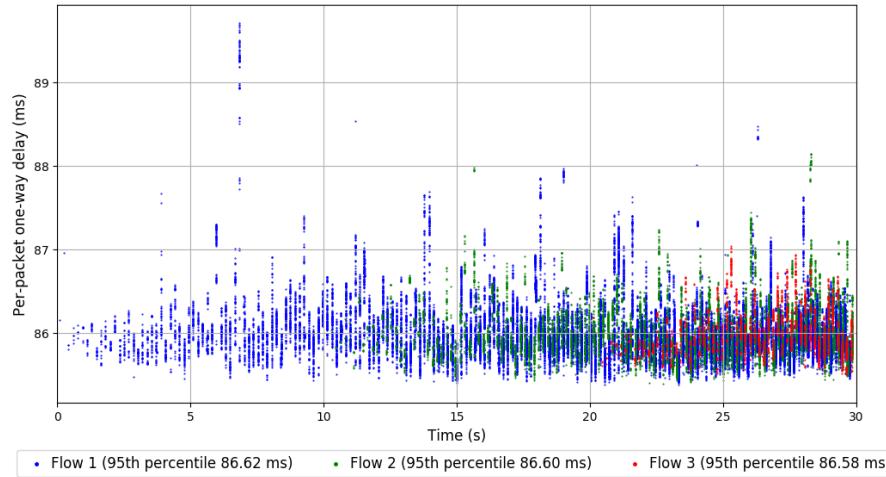
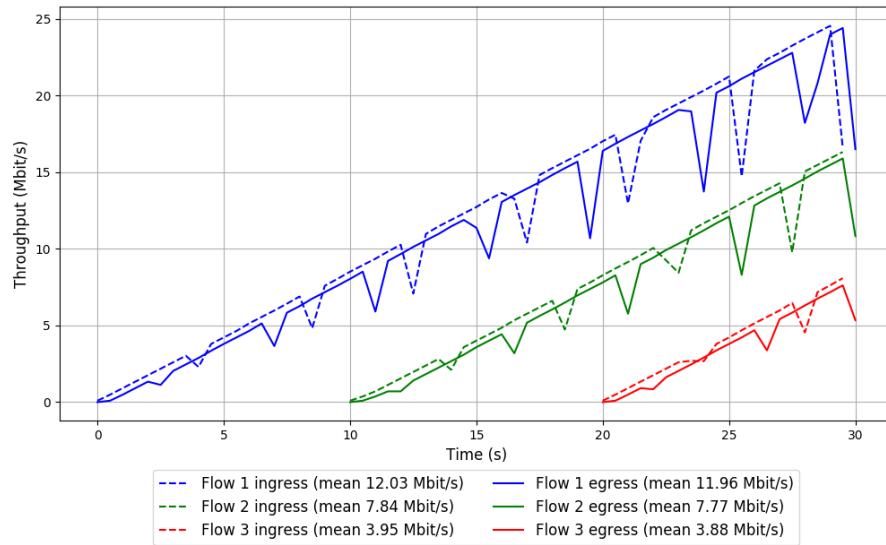


Run 8: Statistics of LEDBAT

```
Start at: 2018-05-22 15:58:01
End at: 2018-05-22 15:58:32
Local clock offset: -0.415 ms
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.34 Mbit/s
95th percentile per-packet one-way delay: 86.609 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.96 Mbit/s
95th percentile per-packet one-way delay: 86.620 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 86.602 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 86.581 ms
Loss rate: 3.52%
```

Run 8: Report of LEDBAT — Data Link

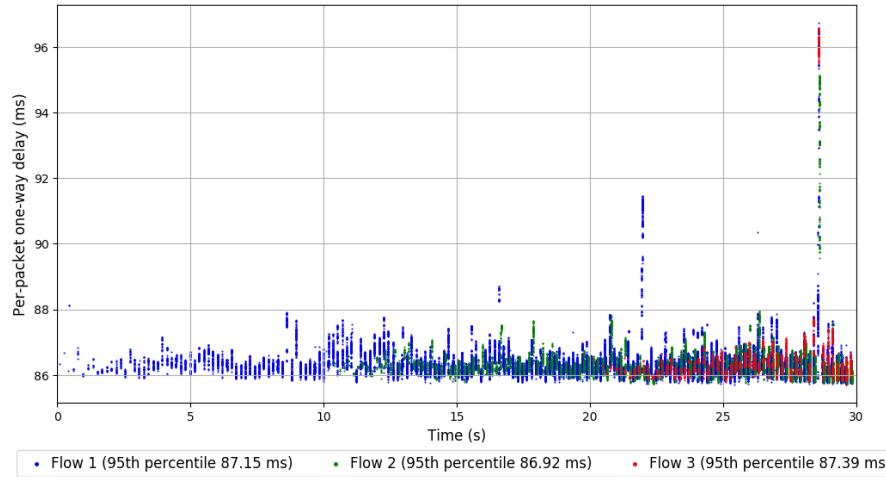
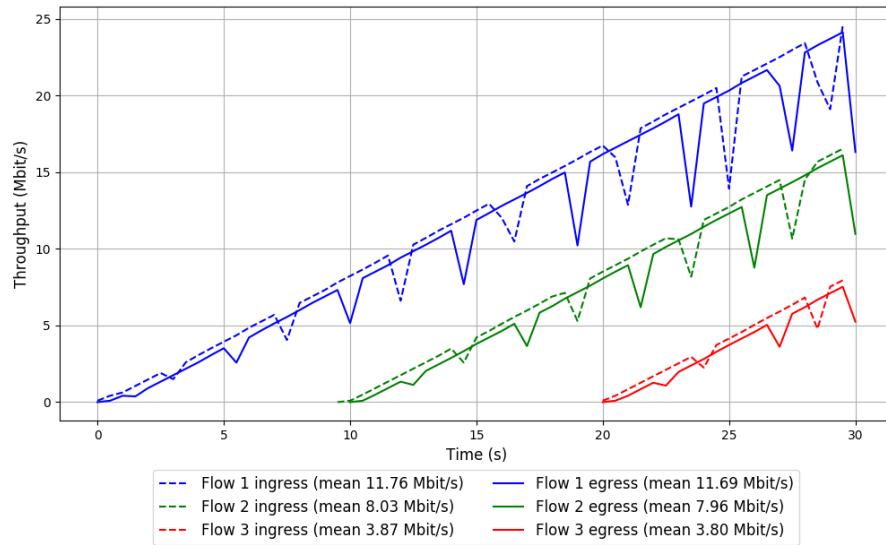


Run 9: Statistics of LEDBAT

```
Start at: 2018-05-22 16:20:35
End at: 2018-05-22 16:21:05
Local clock offset: 0.021 ms
Remote clock offset: -0.466 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.20 Mbit/s
95th percentile per-packet one-way delay: 87.122 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 87.148 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 86.924 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 87.387 ms
Loss rate: 3.53%
```

Run 9: Report of LEDBAT — Data Link

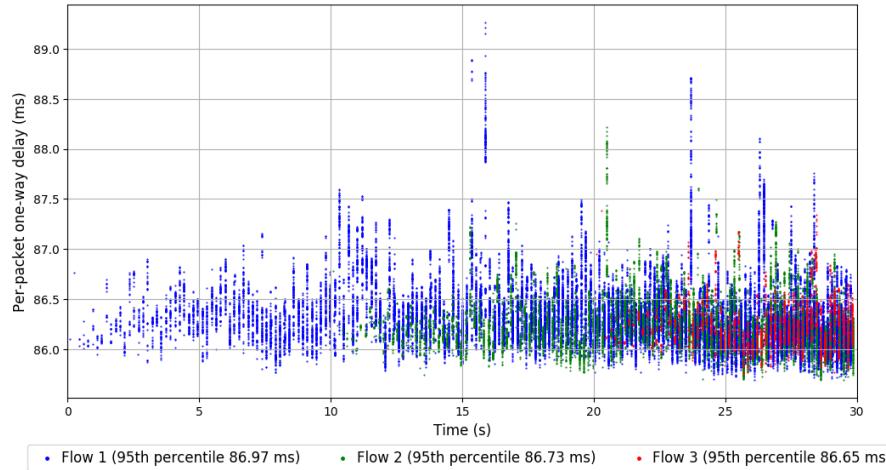
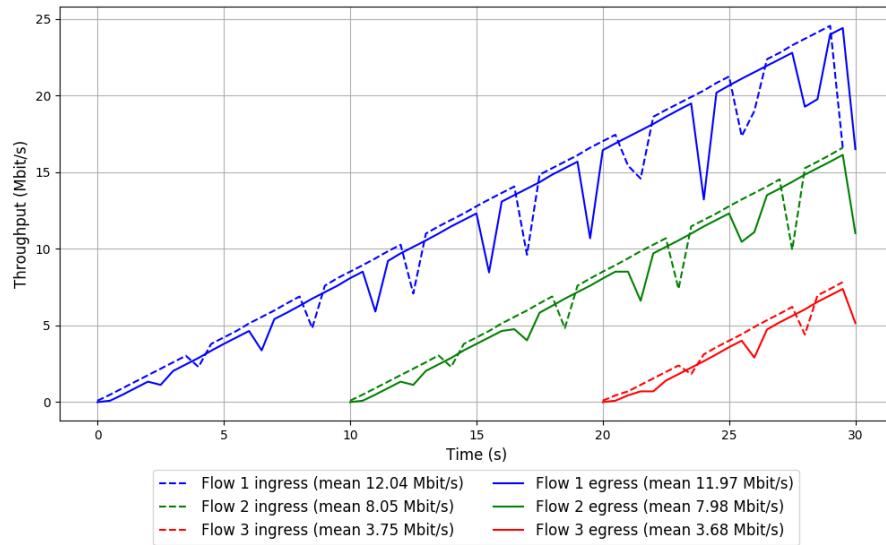


Run 10: Statistics of LEDBAT

```
Start at: 2018-05-22 16:43:12
End at: 2018-05-22 16:43:42
Local clock offset: -0.02 ms
Remote clock offset: -0.818 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.43 Mbit/s
95th percentile per-packet one-way delay: 86.886 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 86.971 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 86.731 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 86.648 ms
Loss rate: 3.61%
```

Run 10: Report of LEDBAT — Data Link

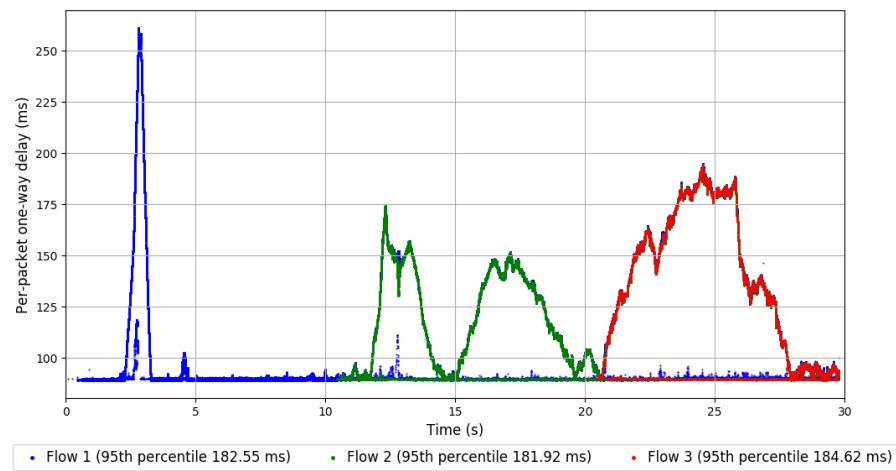
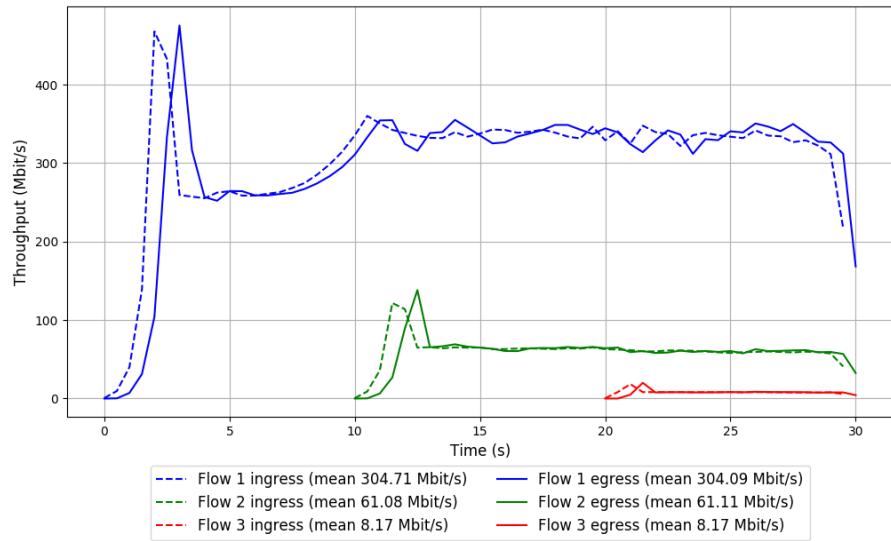


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-05-22 13:21:33
End at: 2018-05-22 13:22:03
Local clock offset: 3.197 ms
Remote clock offset: 0.845 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.16 Mbit/s
95th percentile per-packet one-way delay: 182.492 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 304.09 Mbit/s
95th percentile per-packet one-way delay: 182.553 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 61.11 Mbit/s
95th percentile per-packet one-way delay: 181.921 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 184.618 ms
Loss rate: 1.75%
```

Run 1: Report of PCC-Allegro — Data Link

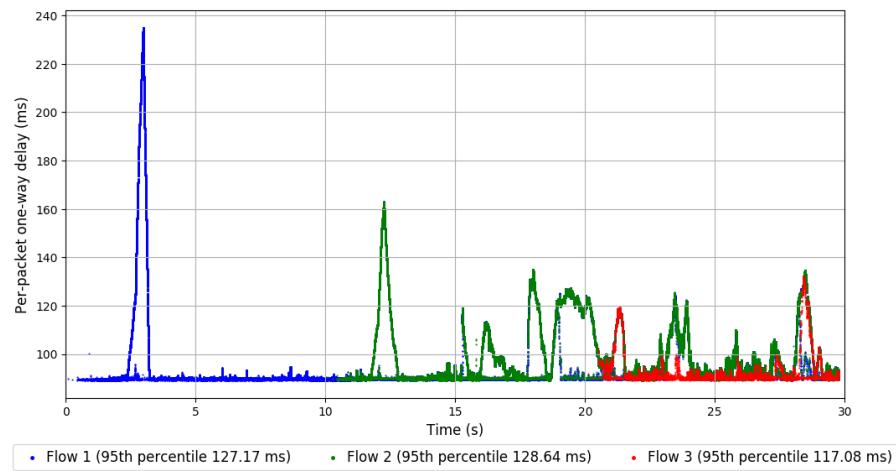
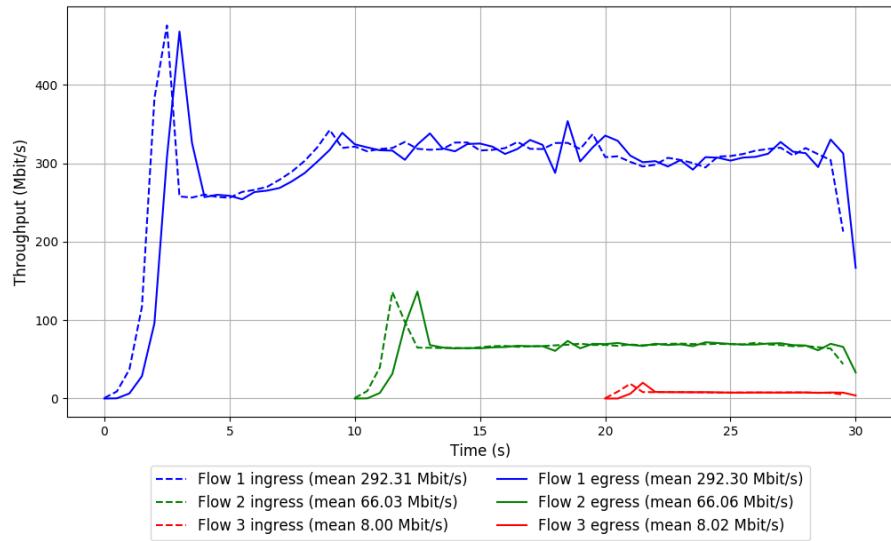


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-05-22 13:44:07
End at: 2018-05-22 13:44:37
Local clock offset: 3.388 ms
Remote clock offset: 0.972 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.69 Mbit/s
95th percentile per-packet one-way delay: 127.317 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 292.30 Mbit/s
95th percentile per-packet one-way delay: 127.165 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 66.06 Mbit/s
95th percentile per-packet one-way delay: 128.641 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 117.084 ms
Loss rate: 1.54%
```

Run 2: Report of PCC-Allegro — Data Link

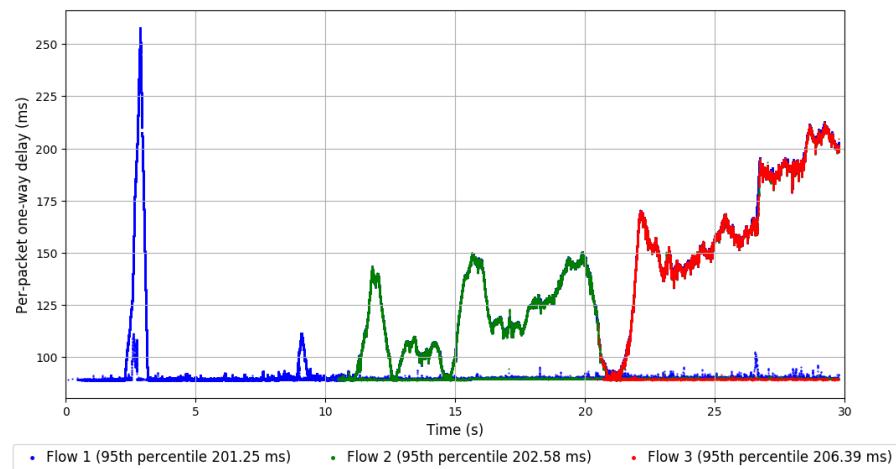
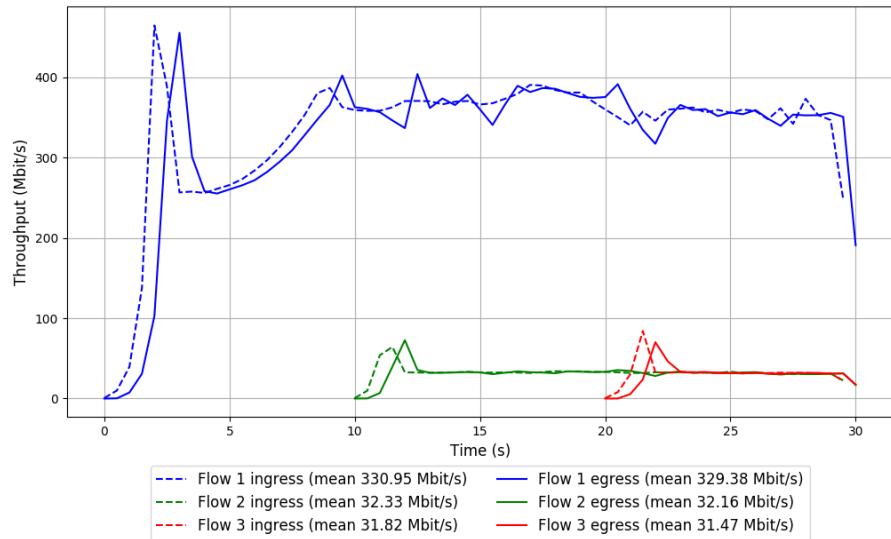


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-05-22 14:06:41
End at: 2018-05-22 14:07:11
Local clock offset: 3.169 ms
Remote clock offset: 1.03 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 360.90 Mbit/s
95th percentile per-packet one-way delay: 201.899 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 329.38 Mbit/s
95th percentile per-packet one-way delay: 201.249 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 202.580 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 206.388 ms
Loss rate: 2.81%
```

Run 3: Report of PCC-Allegro — Data Link

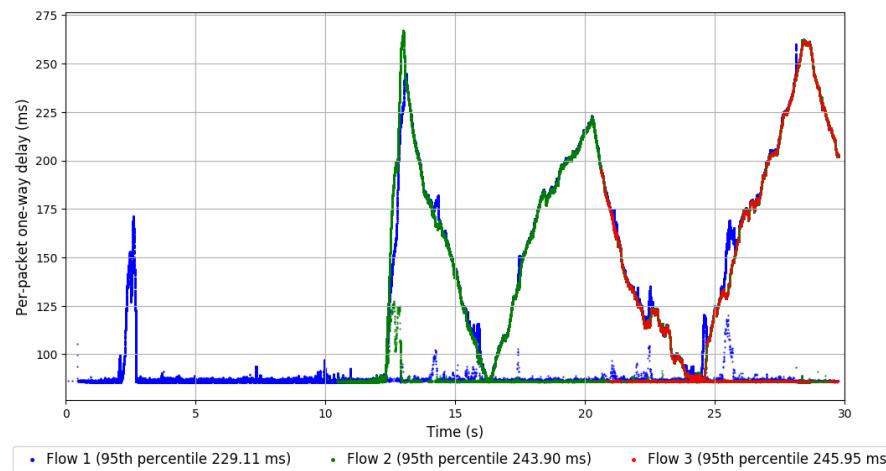
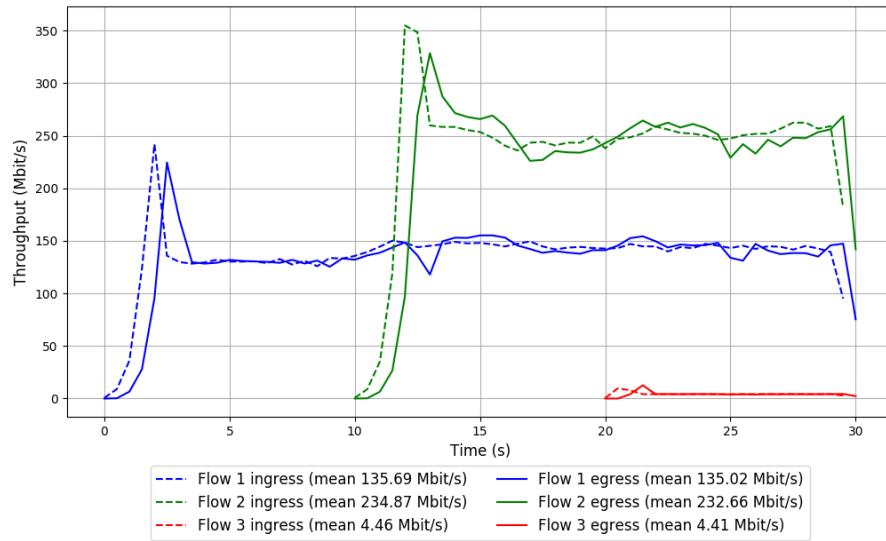


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-05-22 14:29:15
End at: 2018-05-22 14:29:45
Local clock offset: -0.224 ms
Remote clock offset: 1.187 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 290.67 Mbit/s
95th percentile per-packet one-way delay: 238.749 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 135.02 Mbit/s
95th percentile per-packet one-way delay: 229.108 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 232.66 Mbit/s
95th percentile per-packet one-way delay: 243.896 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 245.952 ms
Loss rate: 2.77%
```

Run 4: Report of PCC-Allegro — Data Link

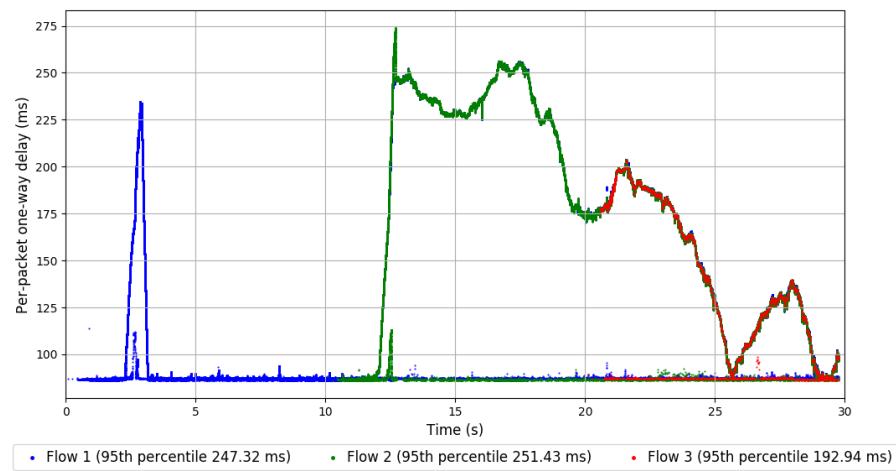
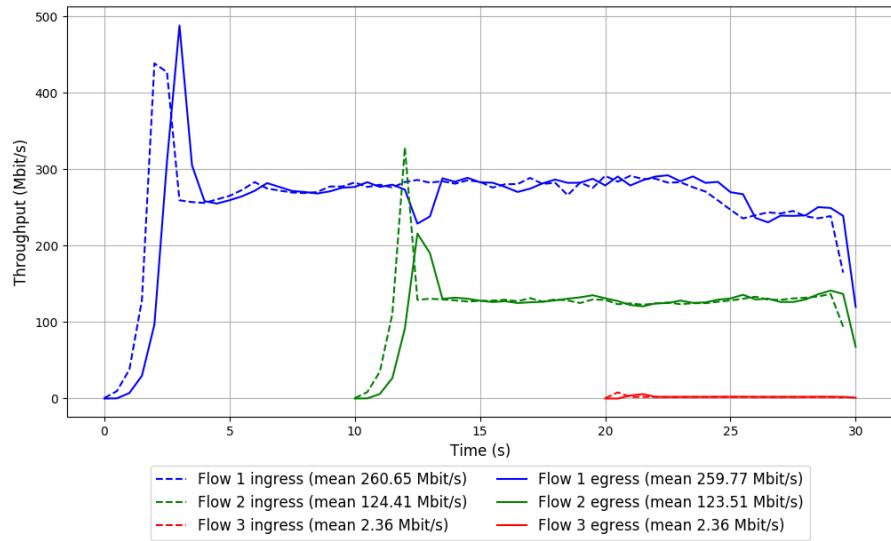


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-05-22 14:51:48
End at: 2018-05-22 14:52:18
Local clock offset: 0.291 ms
Remote clock offset: 1.329 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 342.39 Mbit/s
95th percentile per-packet one-way delay: 248.778 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 259.77 Mbit/s
95th percentile per-packet one-way delay: 247.317 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 123.51 Mbit/s
95th percentile per-packet one-way delay: 251.428 ms
Loss rate: 1.60%
-- Flow 3:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 192.938 ms
Loss rate: 1.67%
```

Run 5: Report of PCC-Allegro — Data Link

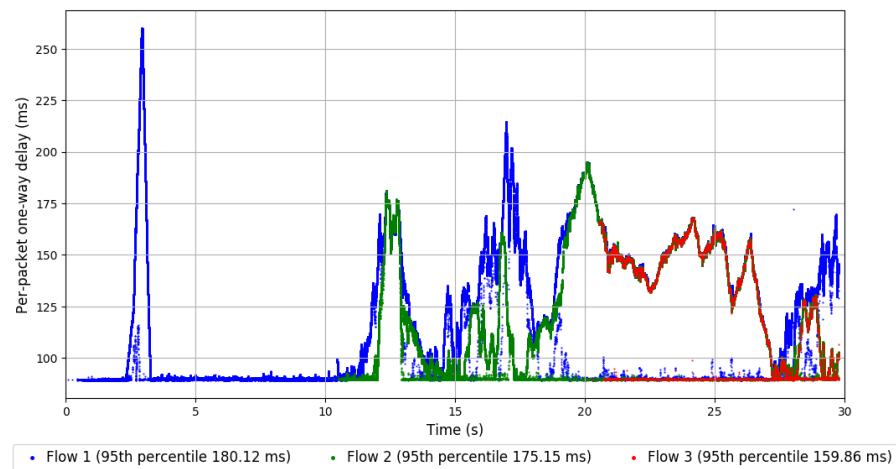
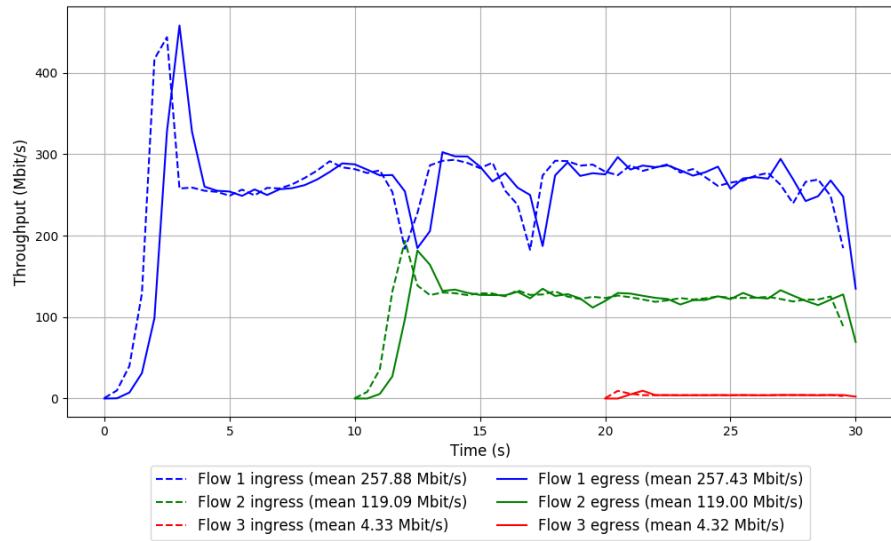


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-05-22 15:13:58
End at: 2018-05-22 15:14:28
Local clock offset: 3.477 ms
Remote clock offset: 1.381 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.49 Mbit/s
95th percentile per-packet one-way delay: 178.077 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 257.43 Mbit/s
95th percentile per-packet one-way delay: 180.125 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 119.00 Mbit/s
95th percentile per-packet one-way delay: 175.149 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 159.863 ms
Loss rate: 1.78%
```

Run 6: Report of PCC-Allegro — Data Link

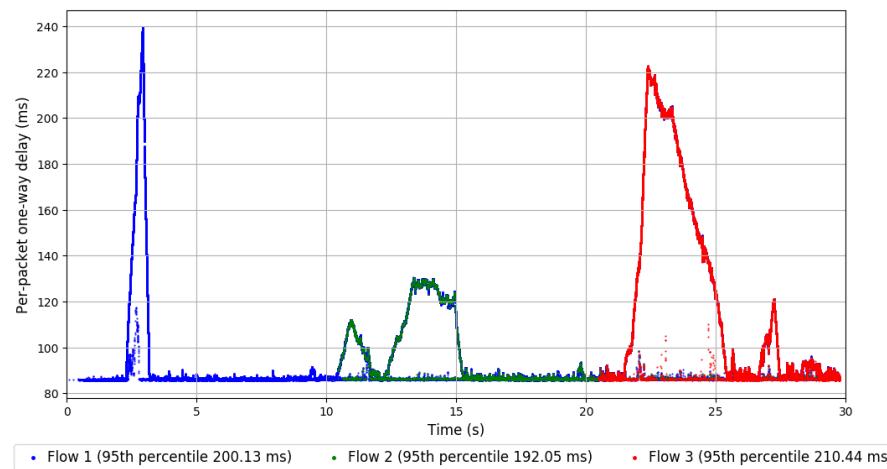
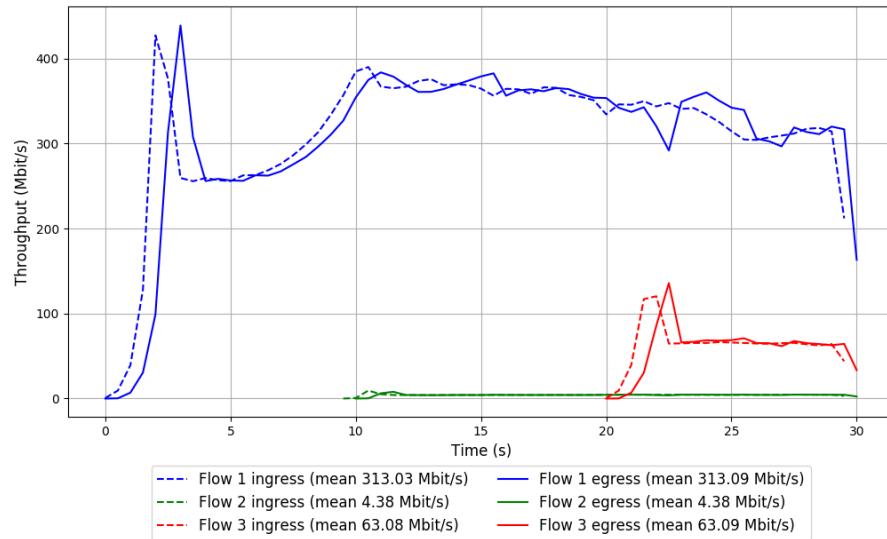


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-05-22 15:36:34
End at: 2018-05-22 15:37:04
Local clock offset: 0.045 ms
Remote clock offset: 1.611 ms

# Below is generated by plot.py at 2018-05-22 17:51:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 336.50 Mbit/s
95th percentile per-packet one-way delay: 201.758 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 313.09 Mbit/s
95th percentile per-packet one-way delay: 200.126 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 4.38 Mbit/s
95th percentile per-packet one-way delay: 192.048 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 63.09 Mbit/s
95th percentile per-packet one-way delay: 210.442 ms
Loss rate: 1.75%
```

Run 7: Report of PCC-Allegro — Data Link

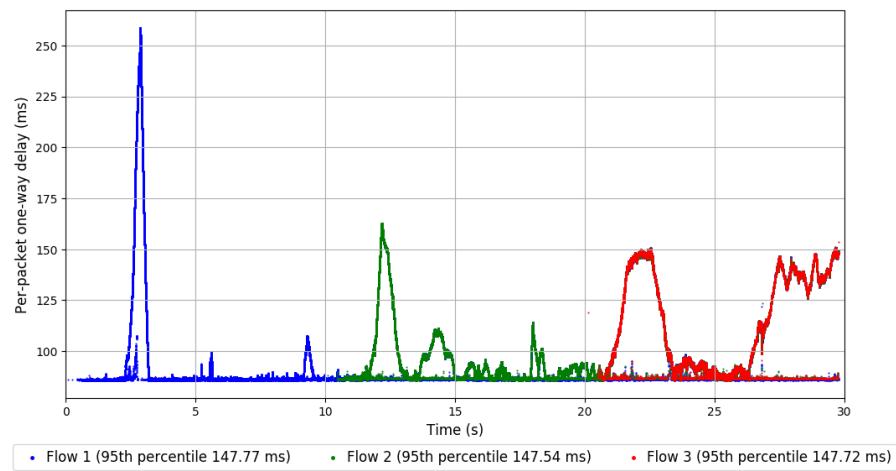
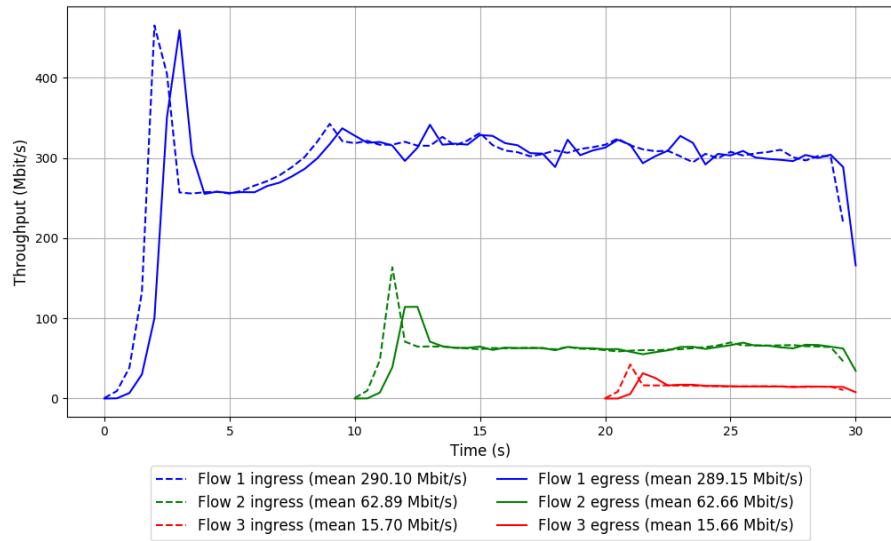


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-05-22 15:59:14
End at: 2018-05-22 15:59:44
Local clock offset: -0.025 ms
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-05-22 17:55:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.70 Mbit/s
95th percentile per-packet one-way delay: 147.733 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 289.15 Mbit/s
95th percentile per-packet one-way delay: 147.768 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 62.66 Mbit/s
95th percentile per-packet one-way delay: 147.540 ms
Loss rate: 1.24%
-- Flow 3:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 147.718 ms
Loss rate: 2.29%
```

Run 8: Report of PCC-Allegro — Data Link

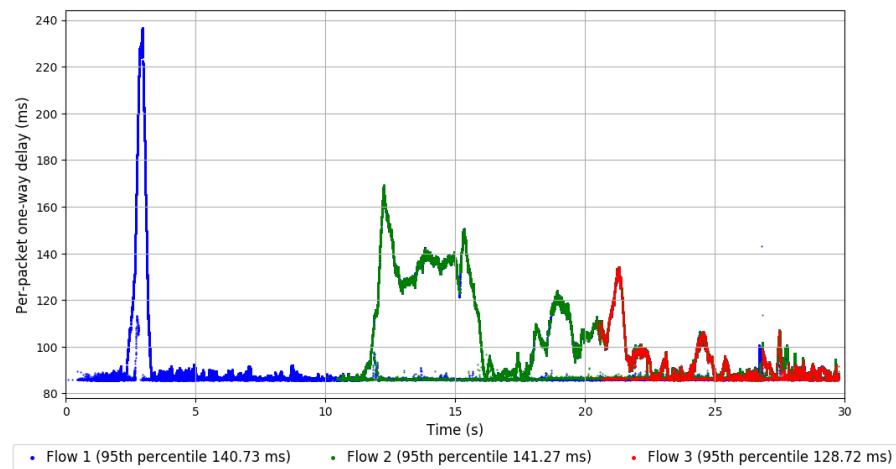
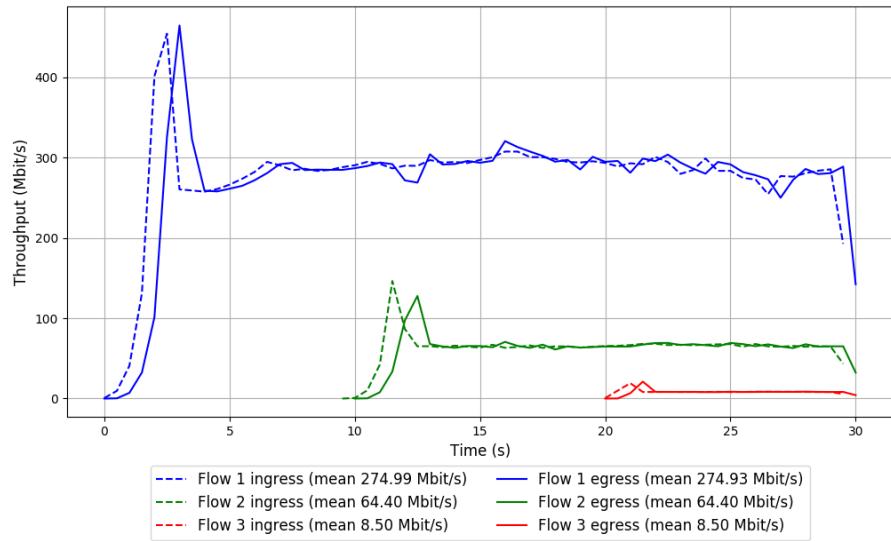


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-05-22 16:21:48
End at: 2018-05-22 16:22:18
Local clock offset: -0.187 ms
Remote clock offset: -0.607 ms

# Below is generated by plot.py at 2018-05-22 17:55:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.35 Mbit/s
95th percentile per-packet one-way delay: 140.686 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 274.93 Mbit/s
95th percentile per-packet one-way delay: 140.730 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 64.40 Mbit/s
95th percentile per-packet one-way delay: 141.273 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 8.50 Mbit/s
95th percentile per-packet one-way delay: 128.718 ms
Loss rate: 1.71%
```

Run 9: Report of PCC-Allegro — Data Link

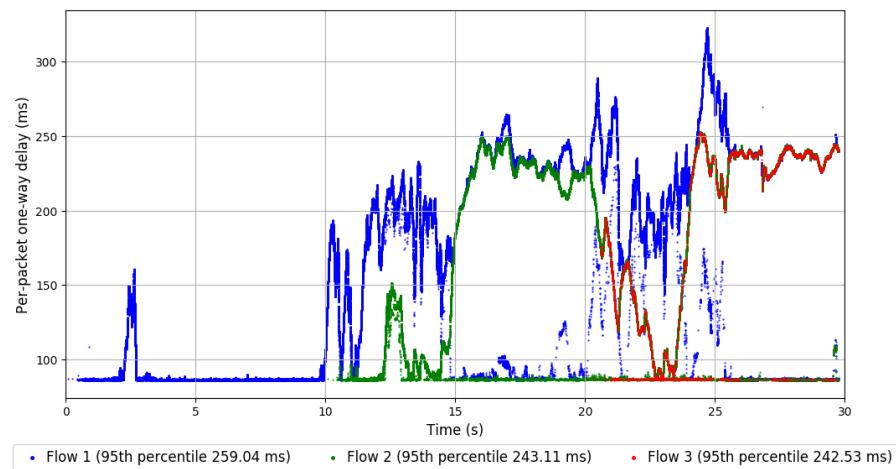
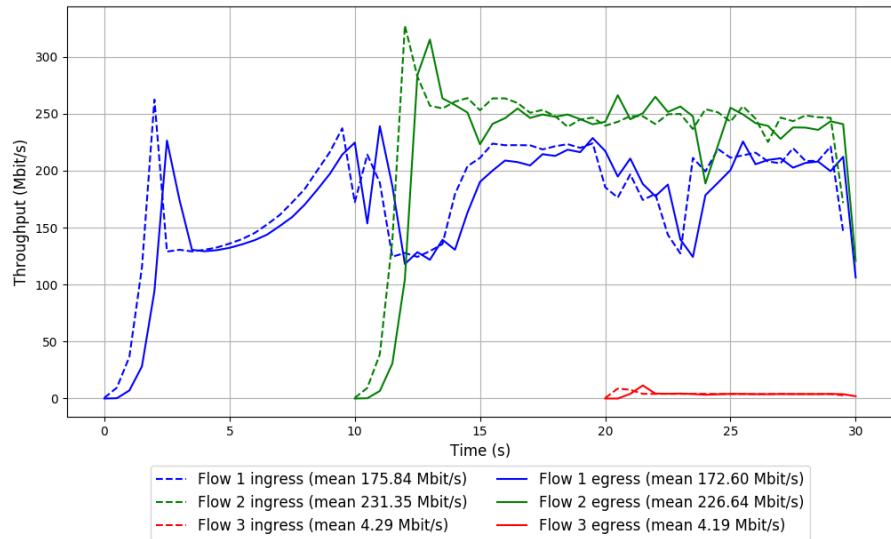


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-05-22 16:44:25
End at: 2018-05-22 16:44:55
Local clock offset: 0.145 ms
Remote clock offset: -1.106 ms

# Below is generated by plot.py at 2018-05-22 17:55:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.17 Mbit/s
95th percentile per-packet one-way delay: 248.277 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 172.60 Mbit/s
95th percentile per-packet one-way delay: 259.039 ms
Loss rate: 2.42%
-- Flow 2:
Average throughput: 226.64 Mbit/s
95th percentile per-packet one-way delay: 243.114 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 242.531 ms
Loss rate: 4.09%
```

Run 10: Report of PCC-Allegro — Data Link

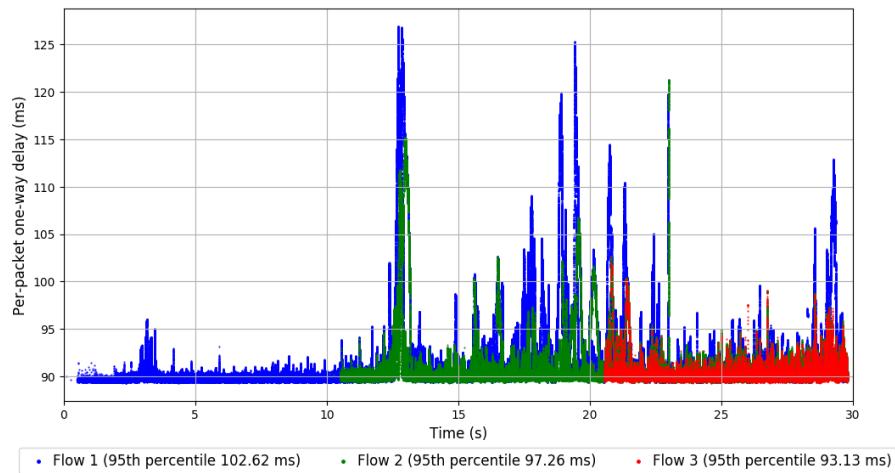
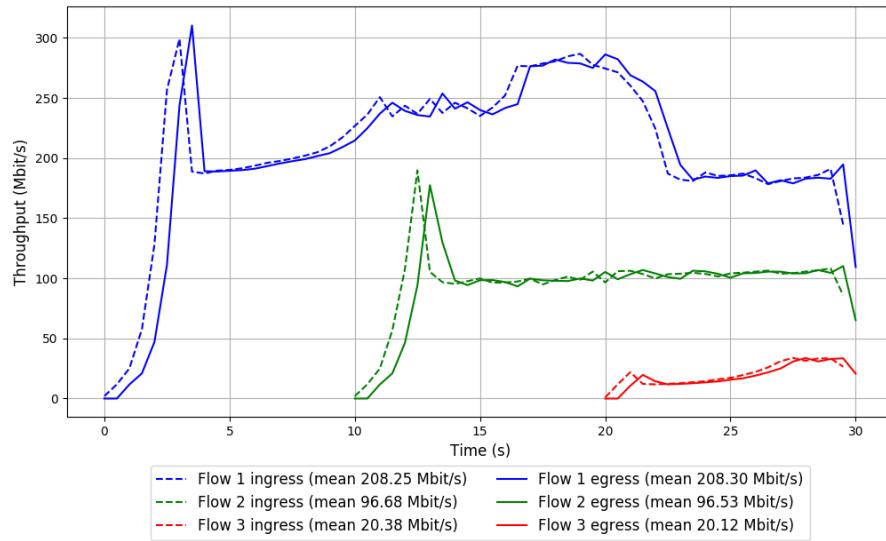


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2018-05-22 13:18:43
End at: 2018-05-22 13:19:13
Local clock offset: 3.465 ms
Remote clock offset: 0.801 ms

# Below is generated by plot.py at 2018-05-22 17:59:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.84 Mbit/s
95th percentile per-packet one-way delay: 101.266 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 208.30 Mbit/s
95th percentile per-packet one-way delay: 102.625 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 97.264 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 20.12 Mbit/s
95th percentile per-packet one-way delay: 93.133 ms
Loss rate: 3.01%
```

Run 1: Report of PCC-Expr — Data Link

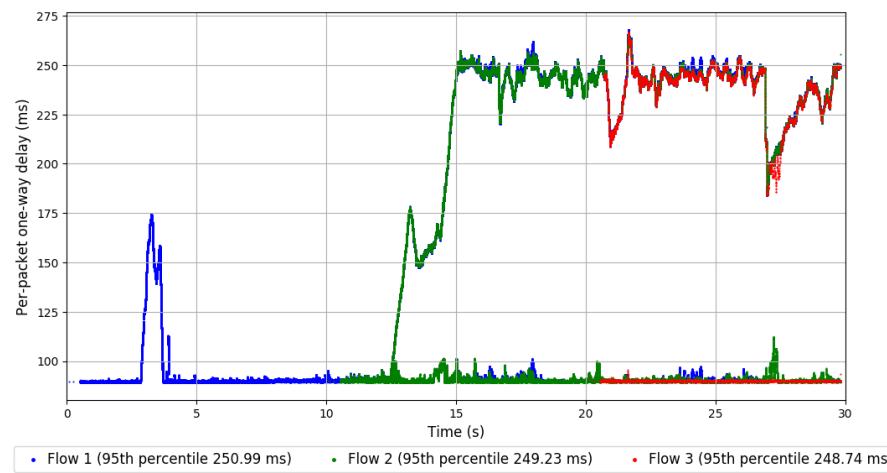
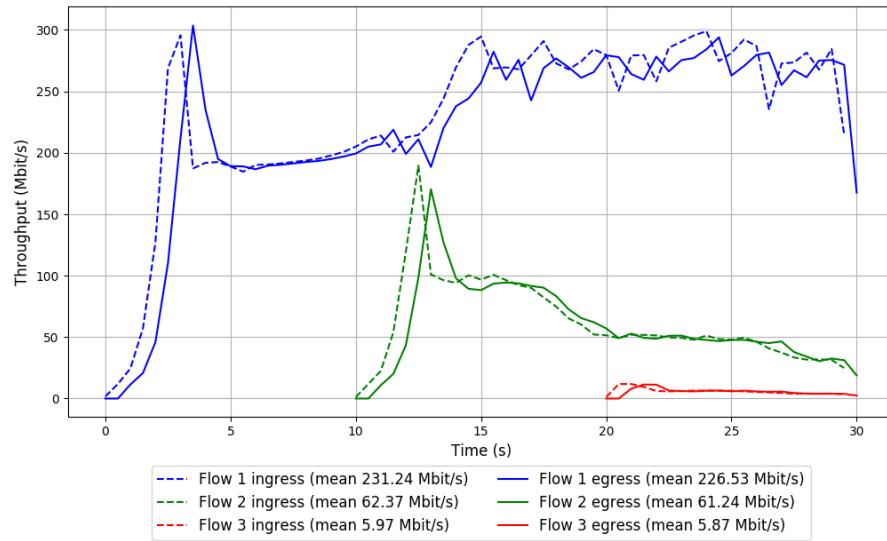


Run 2: Statistics of PCC-Expr

```
Start at: 2018-05-22 13:41:18
End at: 2018-05-22 13:41:48
Local clock offset: 3.524 ms
Remote clock offset: 1.024 ms

# Below is generated by plot.py at 2018-05-22 17:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 269.01 Mbit/s
95th percentile per-packet one-way delay: 250.746 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 226.53 Mbit/s
95th percentile per-packet one-way delay: 250.987 ms
Loss rate: 2.60%
-- Flow 2:
Average throughput: 61.24 Mbit/s
95th percentile per-packet one-way delay: 249.234 ms
Loss rate: 2.64%
-- Flow 3:
Average throughput: 5.87 Mbit/s
95th percentile per-packet one-way delay: 248.737 ms
Loss rate: 3.37%
```

Run 2: Report of PCC-Expr — Data Link

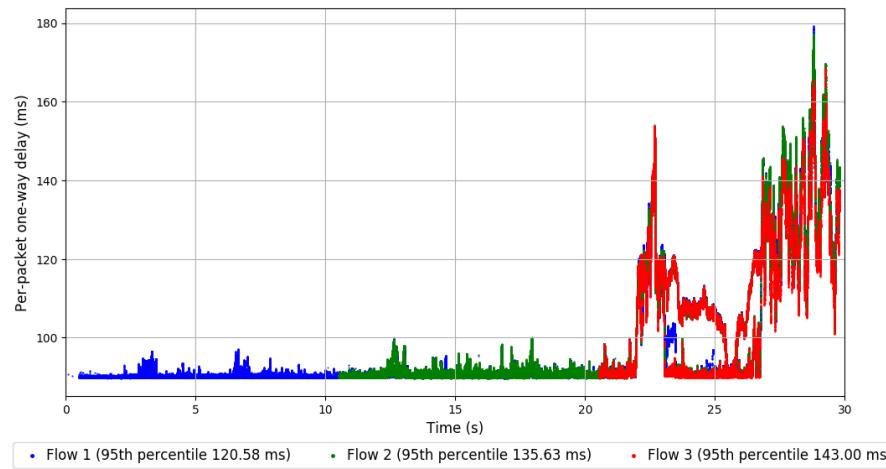
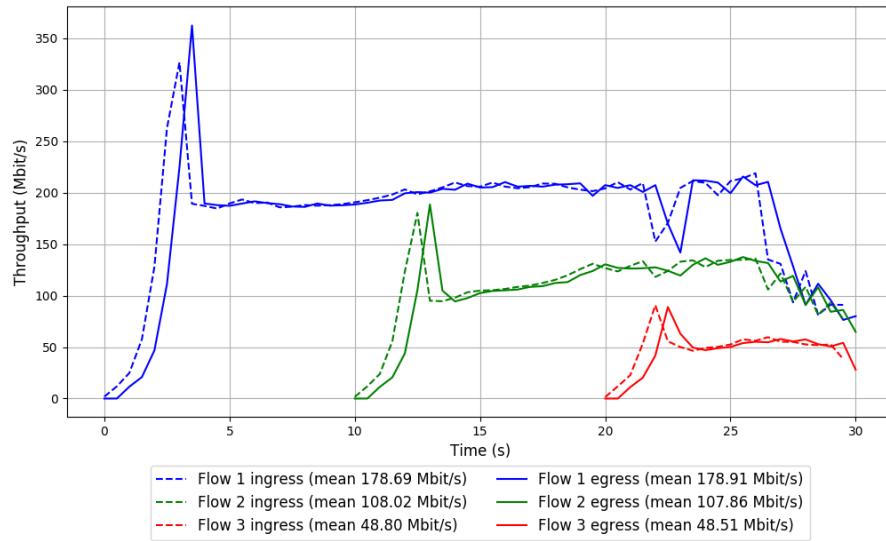


Run 3: Statistics of PCC-Expr

```
Start at: 2018-05-22 14:03:53
End at: 2018-05-22 14:04:23
Local clock offset: 3.862 ms
Remote clock offset: 0.981 ms

# Below is generated by plot.py at 2018-05-22 17:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 266.26 Mbit/s
95th percentile per-packet one-way delay: 129.649 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 178.91 Mbit/s
95th percentile per-packet one-way delay: 120.579 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 107.86 Mbit/s
95th percentile per-packet one-way delay: 135.633 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 142.997 ms
Loss rate: 2.34%
```

Run 3: Report of PCC-Expr — Data Link

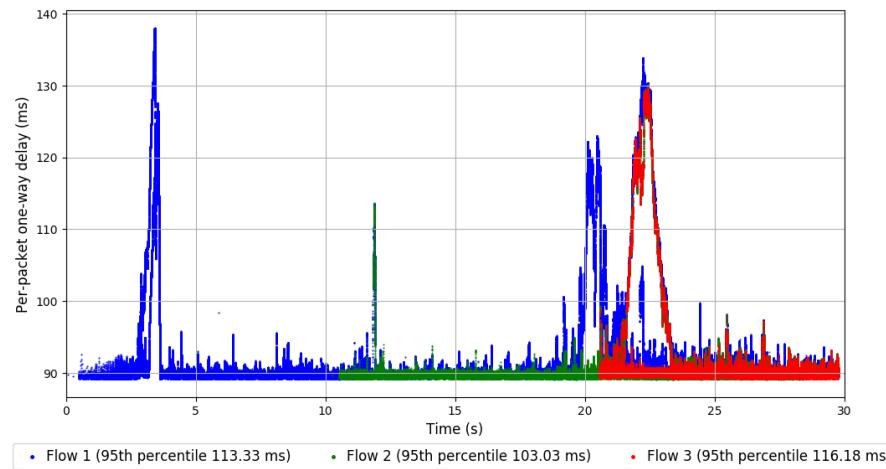
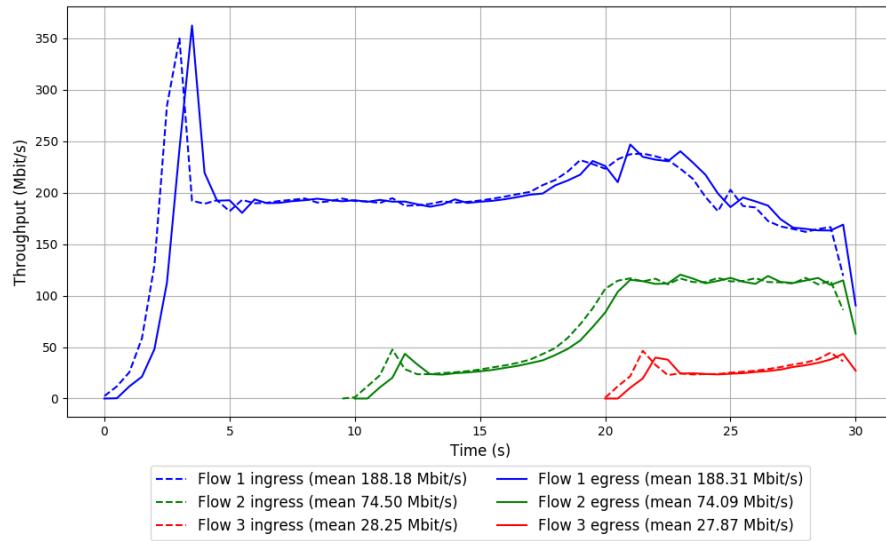


Run 4: Statistics of PCC-Expr

```
Start at: 2018-05-22 14:26:28
End at: 2018-05-22 14:26:58
Local clock offset: 3.452 ms
Remote clock offset: 1.27 ms

# Below is generated by plot.py at 2018-05-22 17:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 246.53 Mbit/s
95th percentile per-packet one-way delay: 111.937 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 188.31 Mbit/s
95th percentile per-packet one-way delay: 113.330 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 103.032 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 27.87 Mbit/s
95th percentile per-packet one-way delay: 116.180 ms
Loss rate: 3.10%
```

Run 4: Report of PCC-Expr — Data Link

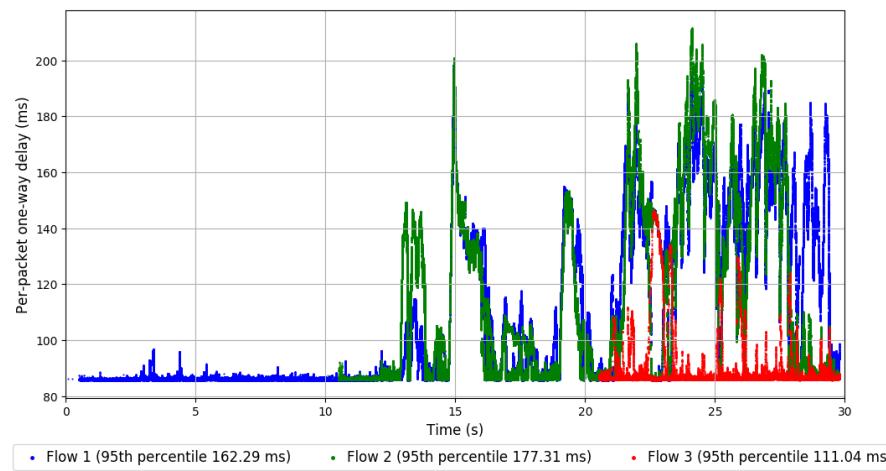
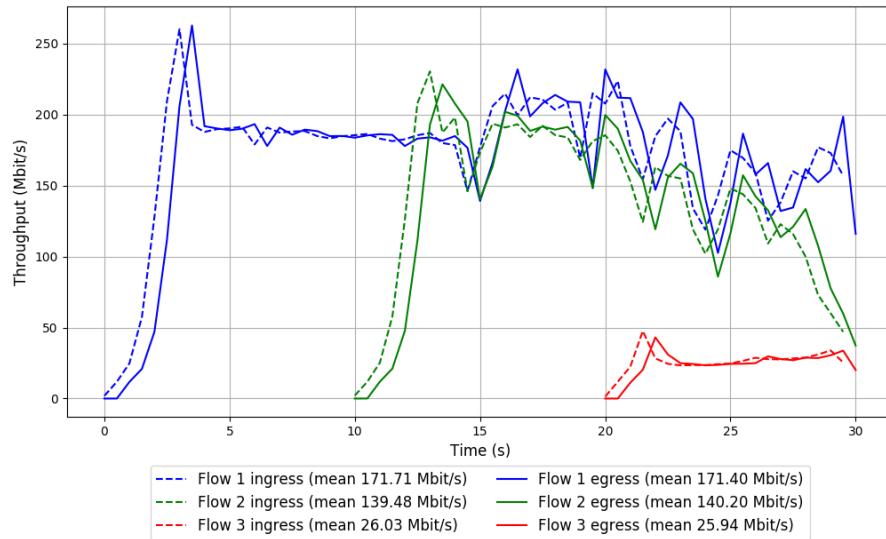


Run 5: Statistics of PCC-Expr

```
Start at: 2018-05-22 14:49:00
End at: 2018-05-22 14:49:30
Local clock offset: 0.08 ms
Remote clock offset: 1.371 ms

# Below is generated by plot.py at 2018-05-22 18:00:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.81 Mbit/s
95th percentile per-packet one-way delay: 166.878 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 171.40 Mbit/s
95th percentile per-packet one-way delay: 162.290 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 140.20 Mbit/s
95th percentile per-packet one-way delay: 177.314 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 111.042 ms
Loss rate: 2.21%
```

Run 5: Report of PCC-Expr — Data Link

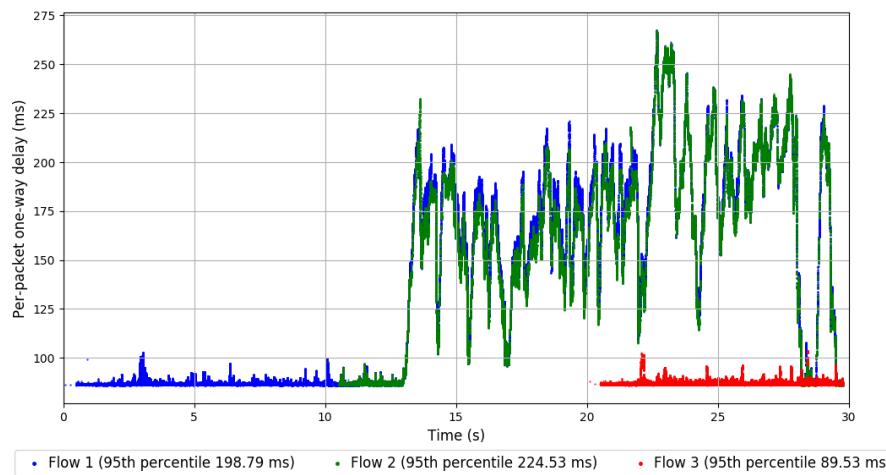
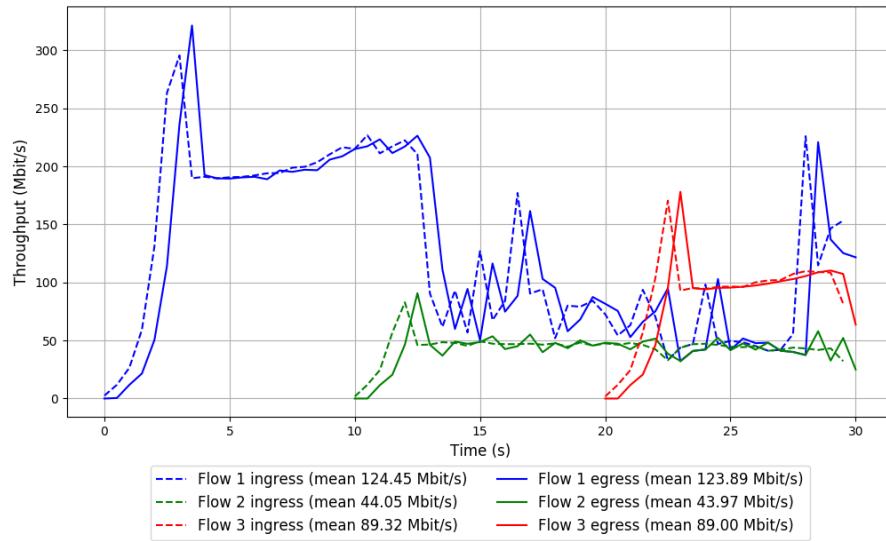


Run 6: Statistics of PCC-Expr

```
Start at: 2018-05-22 15:11:16
End at: 2018-05-22 15:11:46
Local clock offset: 0.235 ms
Remote clock offset: 1.367 ms

# Below is generated by plot.py at 2018-05-22 18:02:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 182.03 Mbit/s
95th percentile per-packet one-way delay: 203.789 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 123.89 Mbit/s
95th percentile per-packet one-way delay: 198.787 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 43.97 Mbit/s
95th percentile per-packet one-way delay: 224.527 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 89.00 Mbit/s
95th percentile per-packet one-way delay: 89.532 ms
Loss rate: 2.12%
```

Run 6: Report of PCC-Expr — Data Link

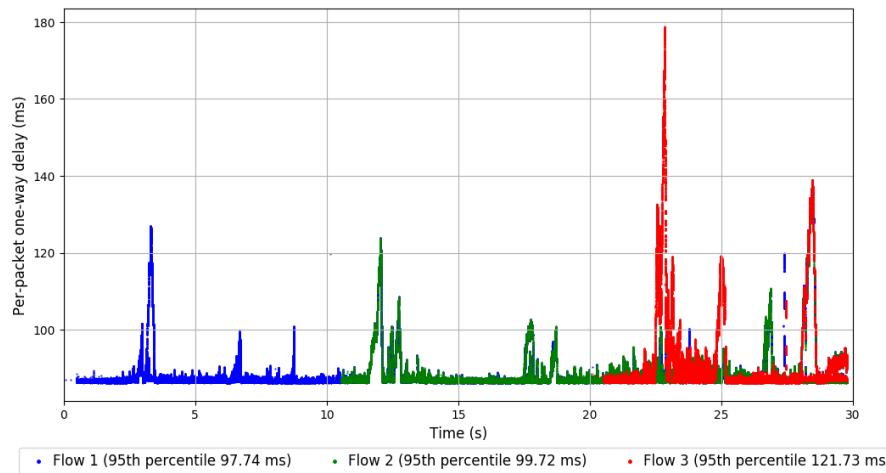
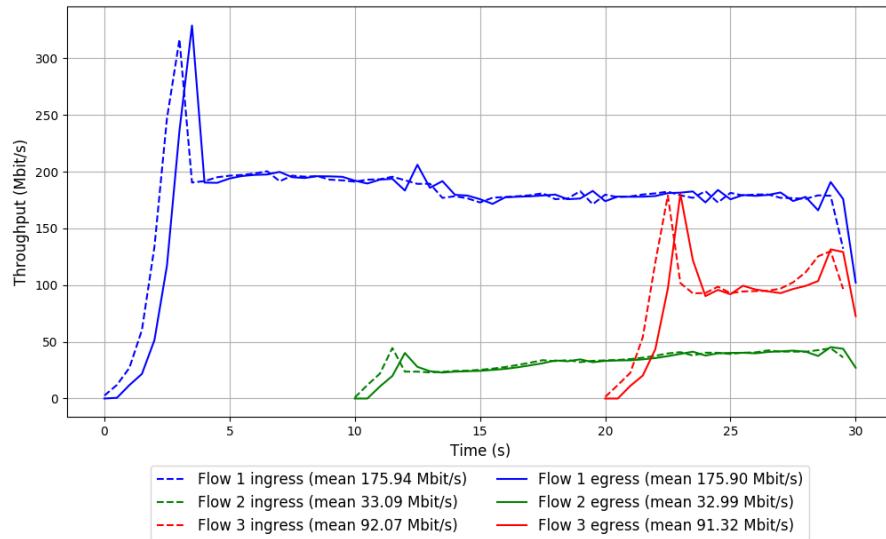


Run 7: Statistics of PCC-Expr

```
Start at: 2018-05-22 15:33:49
End at: 2018-05-22 15:34:19
Local clock offset: 0.385 ms
Remote clock offset: 1.429 ms

# Below is generated by plot.py at 2018-05-22 18:03:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 227.49 Mbit/s
95th percentile per-packet one-way delay: 101.071 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 175.90 Mbit/s
95th percentile per-packet one-way delay: 97.737 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 32.99 Mbit/s
95th percentile per-packet one-way delay: 99.719 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 91.32 Mbit/s
95th percentile per-packet one-way delay: 121.726 ms
Loss rate: 2.57%
```

Run 7: Report of PCC-Expr — Data Link

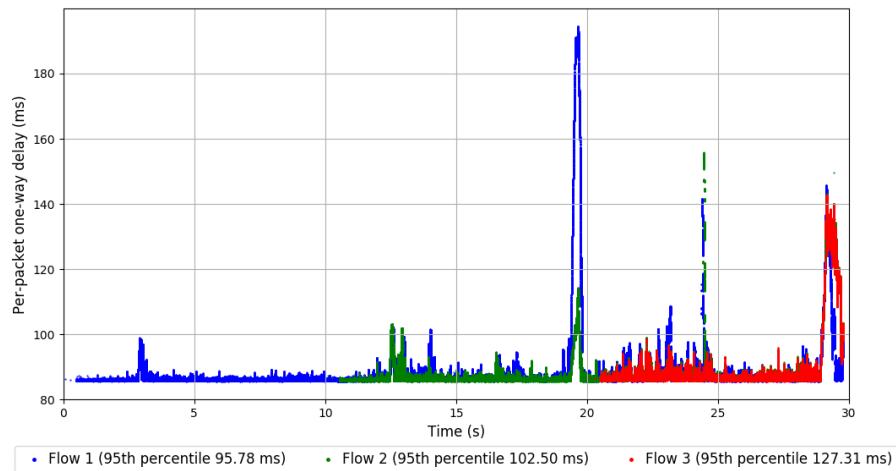
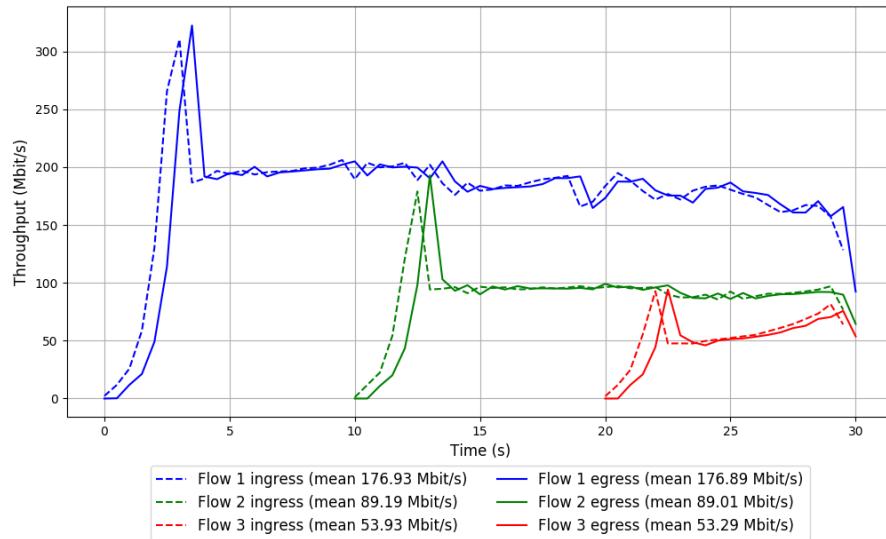


Run 8: Statistics of PCC-Expr

```
Start at: 2018-05-22 15:56:26
End at: 2018-05-22 15:56:56
Local clock offset: -0.102 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-05-22 18:04:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.26 Mbit/s
95th percentile per-packet one-way delay: 98.625 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 176.89 Mbit/s
95th percentile per-packet one-way delay: 95.779 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 89.01 Mbit/s
95th percentile per-packet one-way delay: 102.496 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 127.313 ms
Loss rate: 2.93%
```

Run 8: Report of PCC-Expr — Data Link

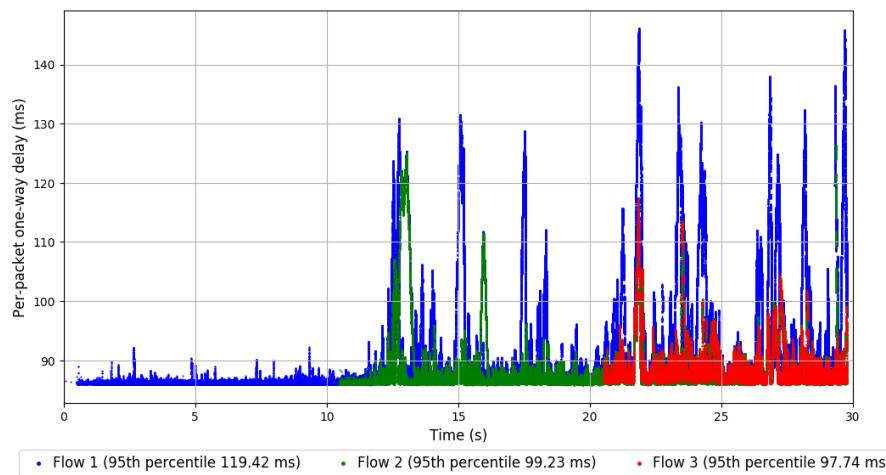
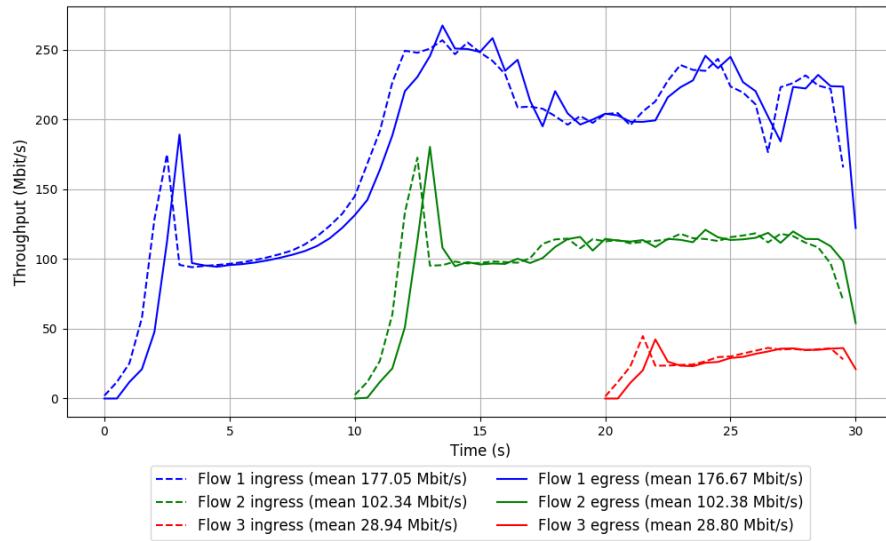


Run 9: Statistics of PCC-Expr

```
Start at: 2018-05-22 16:19:00
End at: 2018-05-22 16:19:30
Local clock offset: 0.122 ms
Remote clock offset: -0.485 ms

# Below is generated by plot.py at 2018-05-22 18:08:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.96 Mbit/s
95th percentile per-packet one-way delay: 115.633 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 176.67 Mbit/s
95th percentile per-packet one-way delay: 119.417 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 102.38 Mbit/s
95th percentile per-packet one-way delay: 99.230 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 28.80 Mbit/s
95th percentile per-packet one-way delay: 97.742 ms
Loss rate: 2.26%
```

Run 9: Report of PCC-Expr — Data Link

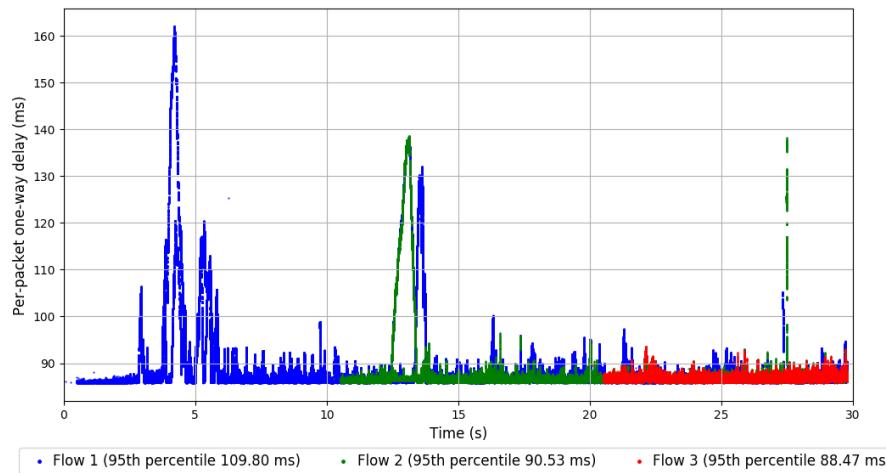
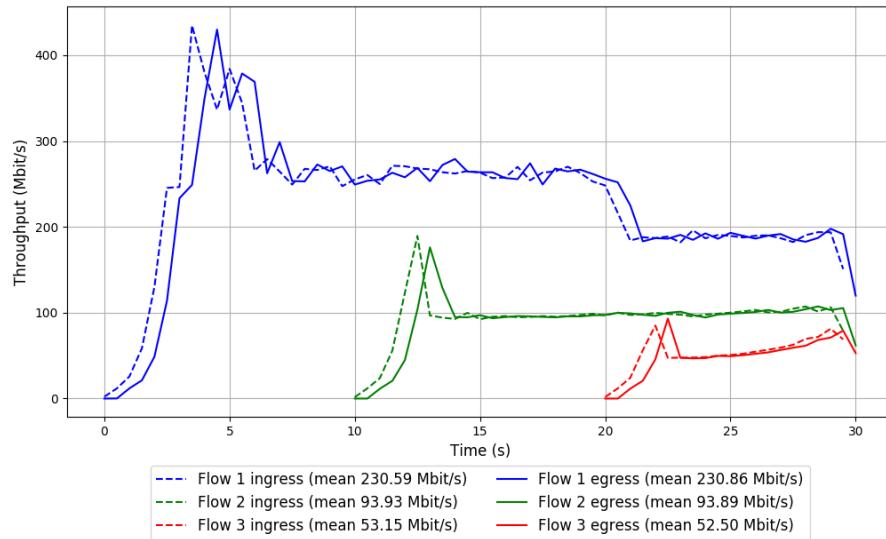


Run 10: Statistics of PCC-Expr

```
Start at: 2018-05-22 16:41:32
End at: 2018-05-22 16:42:02
Local clock offset: 0.059 ms
Remote clock offset: -0.777 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 310.18 Mbit/s
95th percentile per-packet one-way delay: 107.514 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 230.86 Mbit/s
95th percentile per-packet one-way delay: 109.801 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 93.89 Mbit/s
95th percentile per-packet one-way delay: 90.534 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 52.50 Mbit/s
95th percentile per-packet one-way delay: 88.475 ms
Loss rate: 3.00%
```

Run 10: Report of PCC-Expr — Data Link

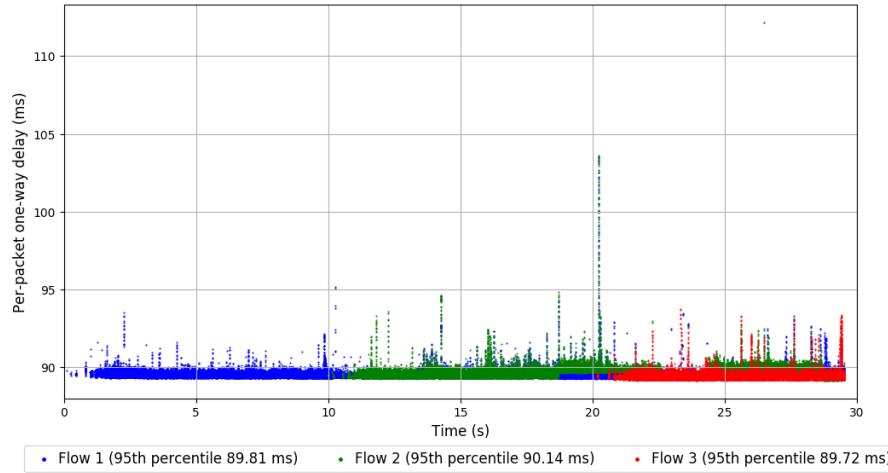
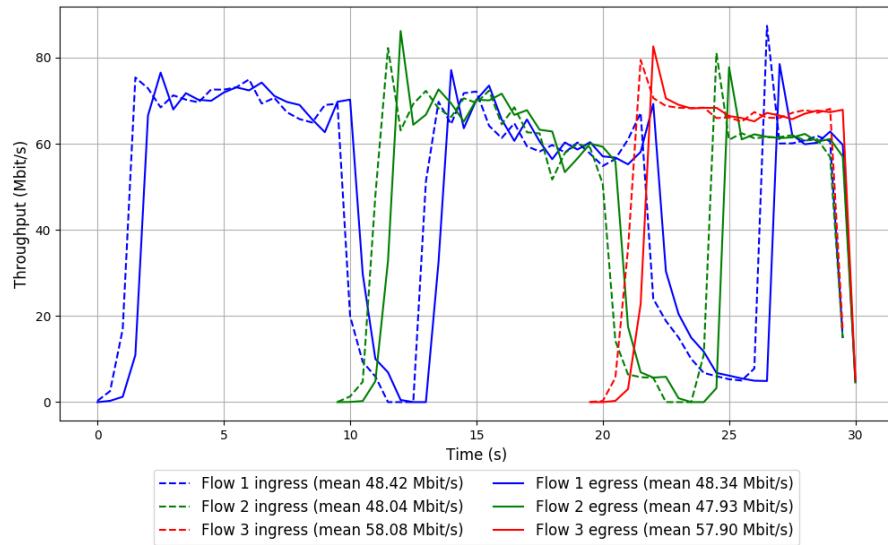


Run 1: Statistics of QUIC Cubic

```
Start at: 2018-05-22 13:24:27
End at: 2018-05-22 13:24:57
Local clock offset: 3.315 ms
Remote clock offset: 0.851 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.54 Mbit/s
95th percentile per-packet one-way delay: 90.002 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 48.34 Mbit/s
95th percentile per-packet one-way delay: 89.814 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 47.93 Mbit/s
95th percentile per-packet one-way delay: 90.142 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 57.90 Mbit/s
95th percentile per-packet one-way delay: 89.716 ms
Loss rate: 2.05%
```

Run 1: Report of QUIC Cubic — Data Link

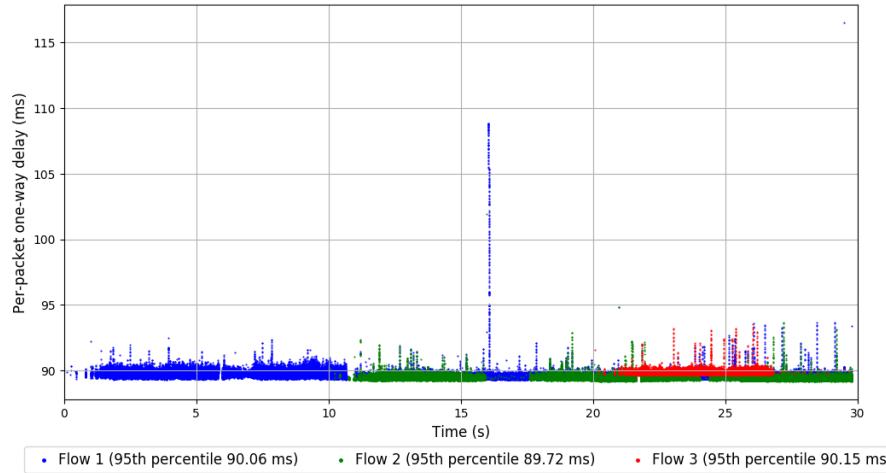
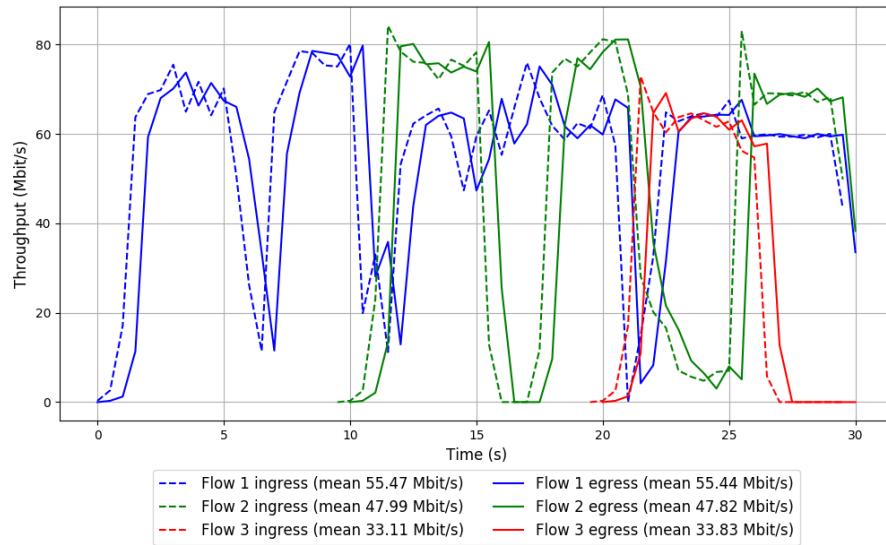


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-05-22 13:47:06
End at: 2018-05-22 13:47:36
Local clock offset: 3.521 ms
Remote clock offset: 1.067 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.16 Mbit/s
95th percentile per-packet one-way delay: 90.042 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 55.44 Mbit/s
95th percentile per-packet one-way delay: 90.063 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 47.82 Mbit/s
95th percentile per-packet one-way delay: 89.725 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 33.83 Mbit/s
95th percentile per-packet one-way delay: 90.153 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

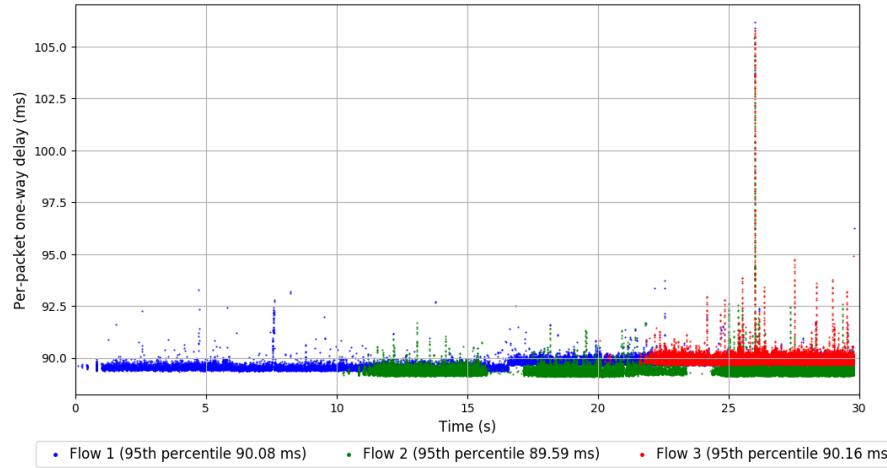
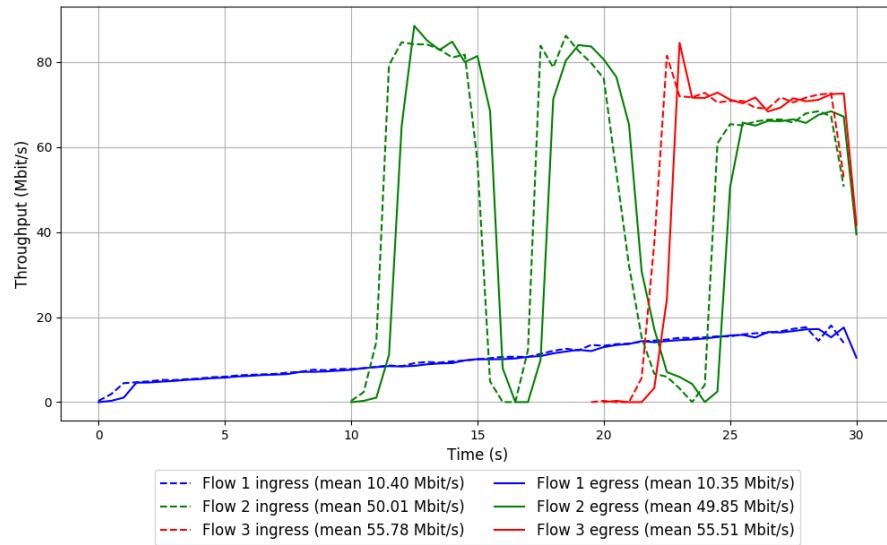


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-05-22 14:09:40
End at: 2018-05-22 14:10:10
Local clock offset: 3.317 ms
Remote clock offset: 1.08 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.56 Mbit/s
95th percentile per-packet one-way delay: 90.053 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 10.35 Mbit/s
95th percentile per-packet one-way delay: 90.075 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 49.85 Mbit/s
95th percentile per-packet one-way delay: 89.594 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 55.51 Mbit/s
95th percentile per-packet one-way delay: 90.163 ms
Loss rate: 2.19%
```

Run 3: Report of QUIC Cubic — Data Link

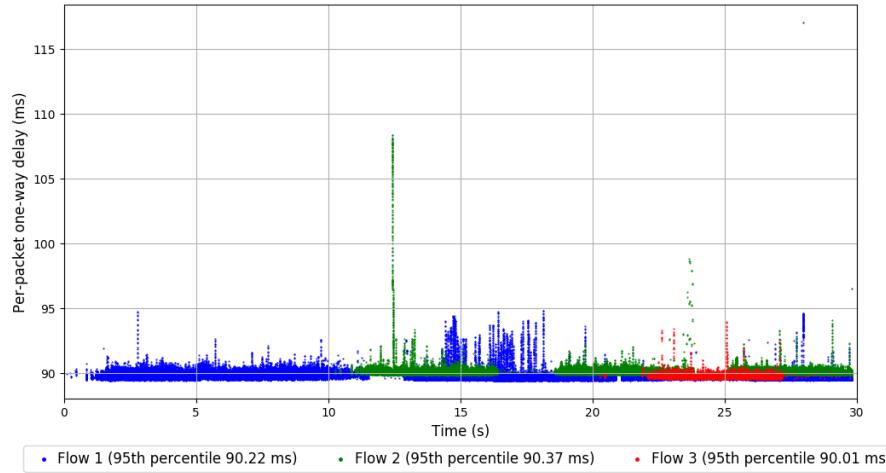
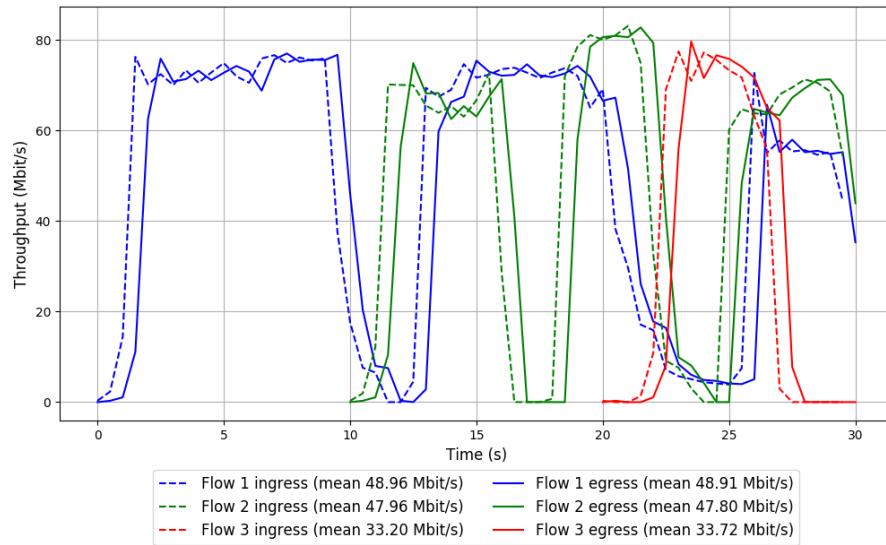


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-05-22 14:32:10
End at: 2018-05-22 14:32:40
Local clock offset: 3.486 ms
Remote clock offset: 1.135 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 90.301 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 48.91 Mbit/s
95th percentile per-packet one-way delay: 90.218 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 47.80 Mbit/s
95th percentile per-packet one-way delay: 90.371 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 33.72 Mbit/s
95th percentile per-packet one-way delay: 90.006 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link

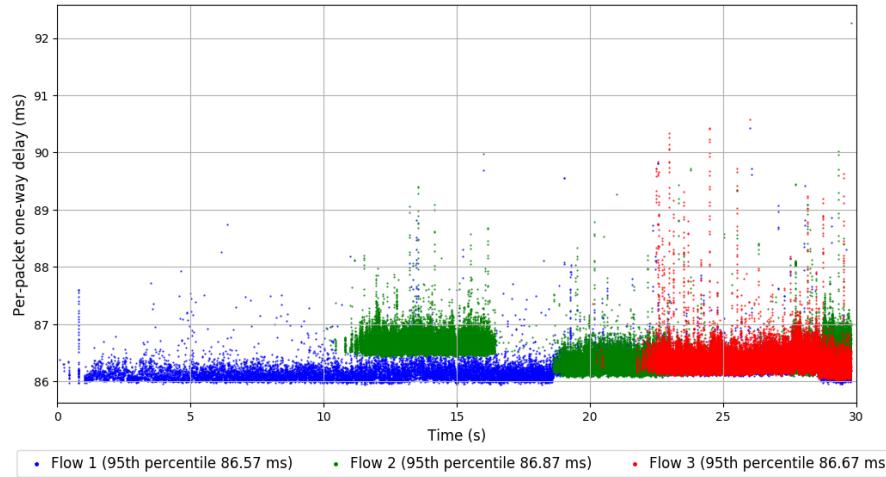
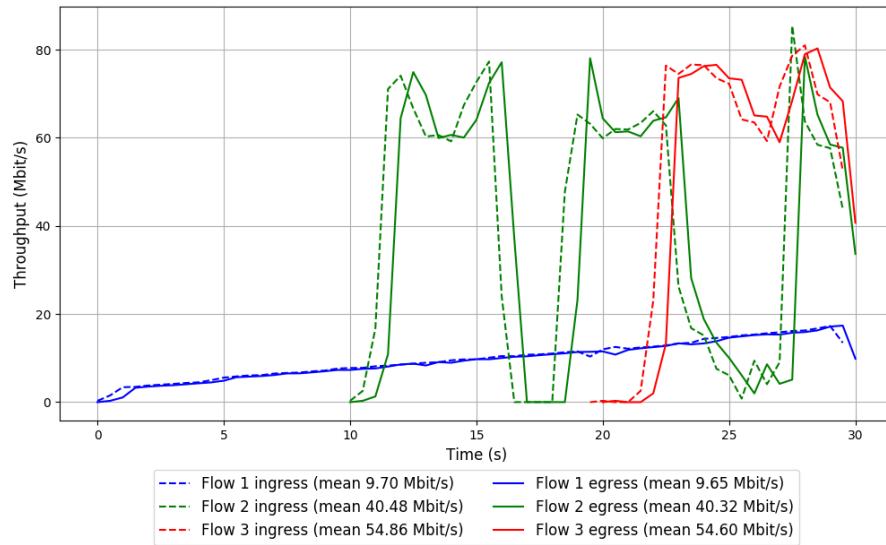


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-05-22 14:54:48
End at: 2018-05-22 14:55:18
Local clock offset: 0.211 ms
Remote clock offset: 1.357 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 54.24 Mbit/s
95th percentile per-packet one-way delay: 86.809 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 86.572 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 40.32 Mbit/s
95th percentile per-packet one-way delay: 86.871 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 54.60 Mbit/s
95th percentile per-packet one-way delay: 86.672 ms
Loss rate: 2.24%
```

Run 5: Report of QUIC Cubic — Data Link

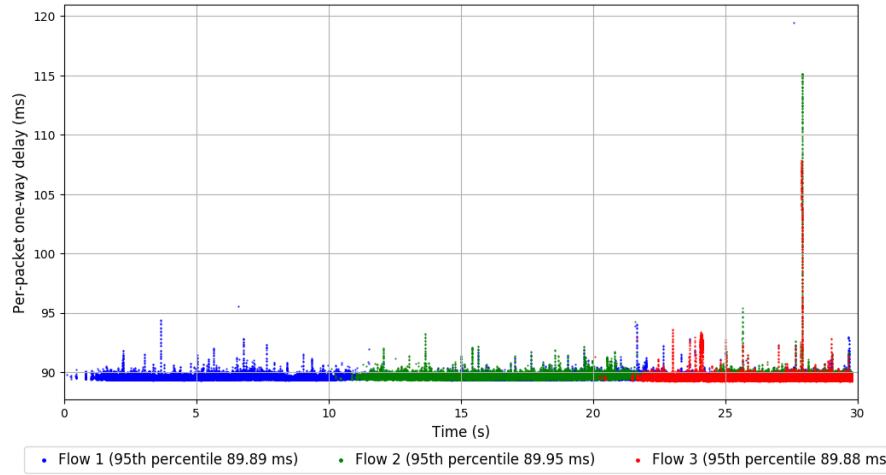
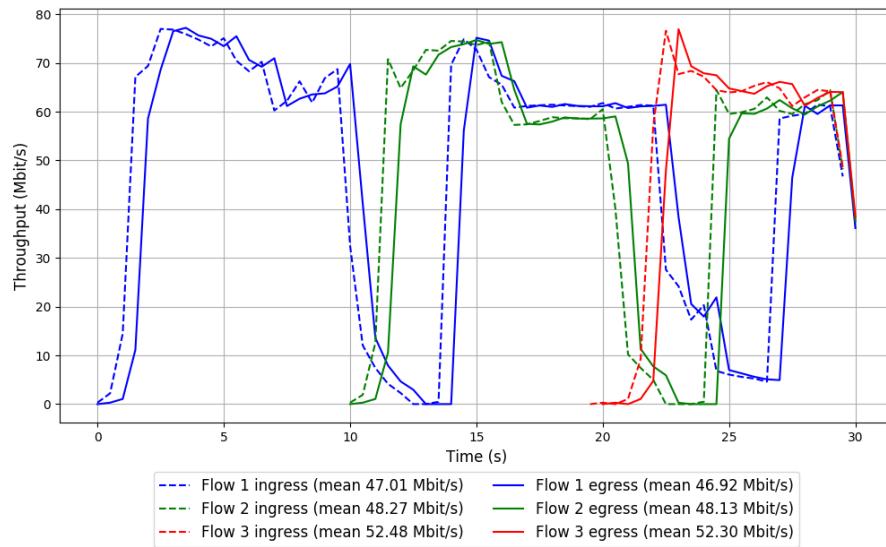


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-05-22 15:16:54
End at: 2018-05-22 15:17:24
Local clock offset: 3.518 ms
Remote clock offset: 1.41 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 89.910 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 46.92 Mbit/s
95th percentile per-packet one-way delay: 89.887 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 48.13 Mbit/s
95th percentile per-packet one-way delay: 89.950 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 52.30 Mbit/s
95th percentile per-packet one-way delay: 89.879 ms
Loss rate: 2.11%
```

Run 6: Report of QUIC Cubic — Data Link

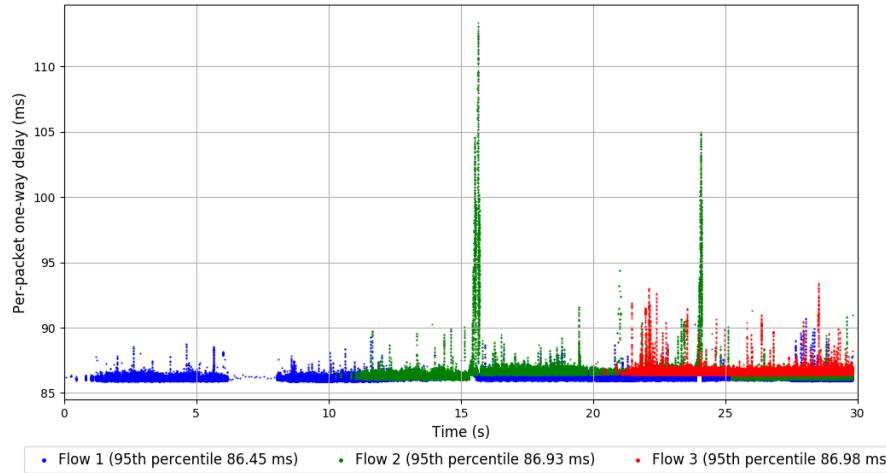
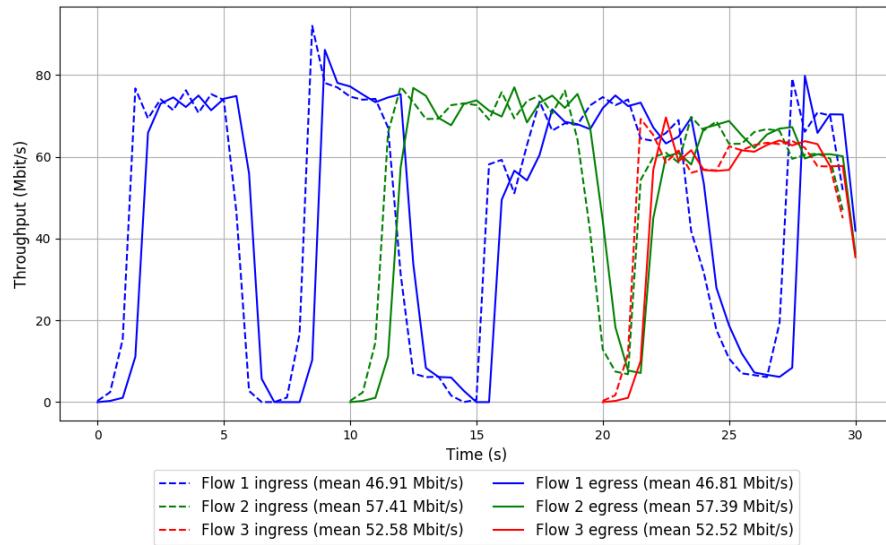


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-05-22 15:39:31
End at: 2018-05-22 15:40:01
Local clock offset: 0.087 ms
Remote clock offset: 1.472 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.01 Mbit/s
95th percentile per-packet one-way delay: 86.835 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 46.81 Mbit/s
95th percentile per-packet one-way delay: 86.447 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 57.39 Mbit/s
95th percentile per-packet one-way delay: 86.927 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 52.52 Mbit/s
95th percentile per-packet one-way delay: 86.977 ms
Loss rate: 1.87%
```

Run 7: Report of QUIC Cubic — Data Link

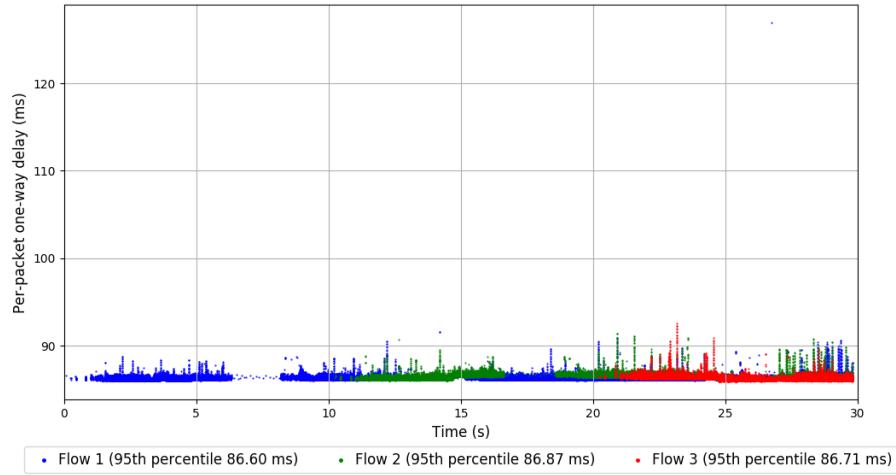
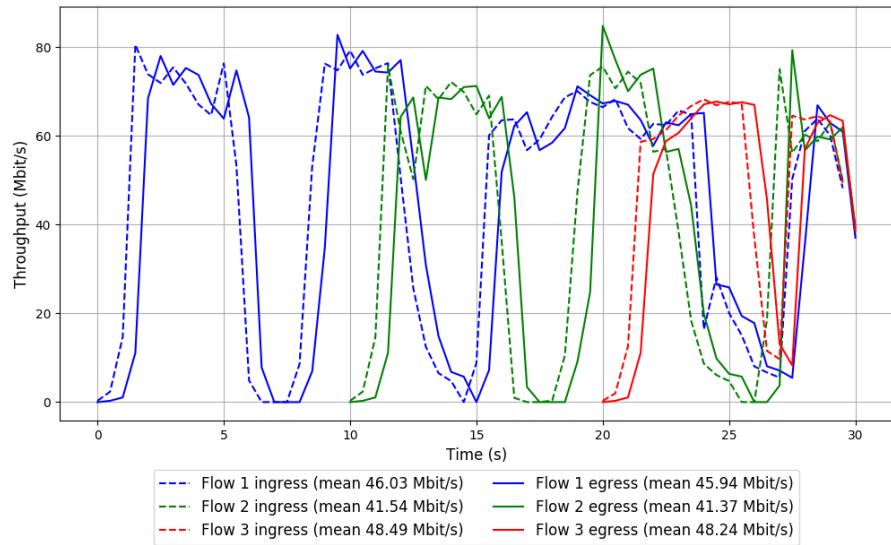


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-05-22 16:02:11
End at: 2018-05-22 16:02:42
Local clock offset: 0.129 ms
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.15 Mbit/s
95th percentile per-packet one-way delay: 86.755 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 45.94 Mbit/s
95th percentile per-packet one-way delay: 86.600 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 41.37 Mbit/s
95th percentile per-packet one-way delay: 86.872 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 48.24 Mbit/s
95th percentile per-packet one-way delay: 86.707 ms
Loss rate: 2.27%
```

Run 8: Report of QUIC Cubic — Data Link

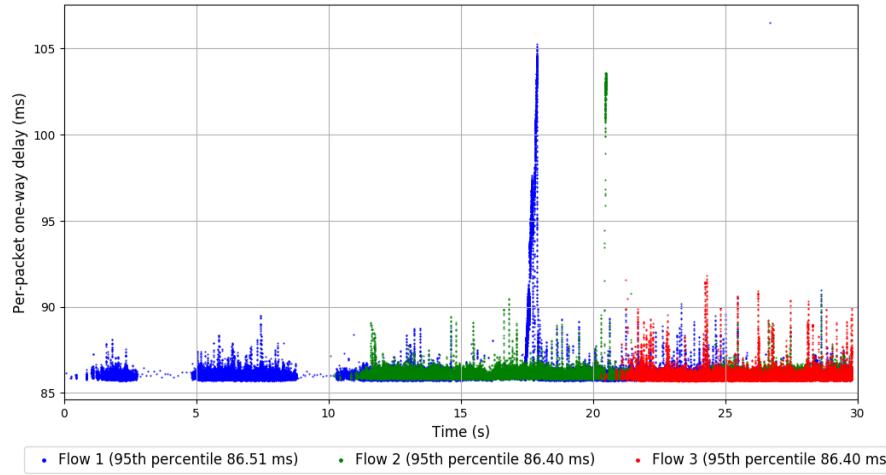
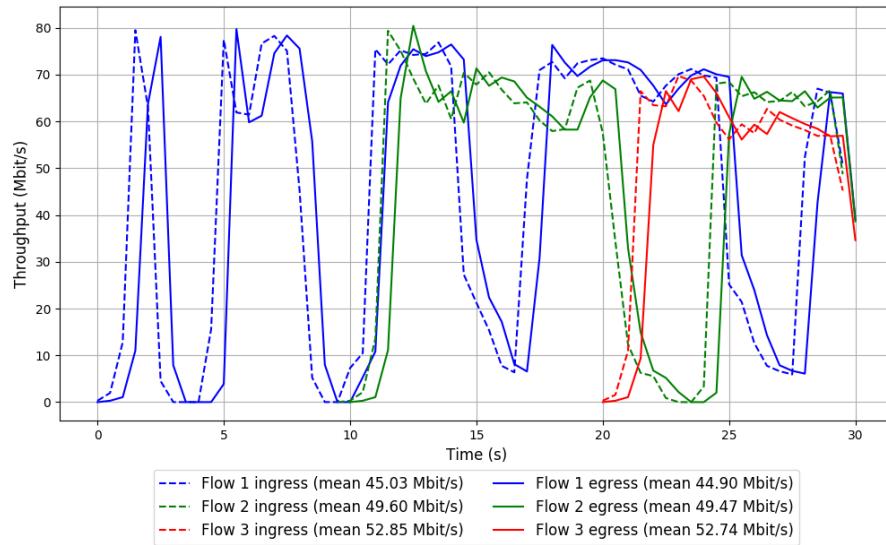


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-05-22 16:24:44
End at: 2018-05-22 16:25:14
Local clock offset: -0.051 ms
Remote clock offset: -0.56 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.93 Mbit/s
95th percentile per-packet one-way delay: 86.433 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 44.90 Mbit/s
95th percentile per-packet one-way delay: 86.511 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 49.47 Mbit/s
95th percentile per-packet one-way delay: 86.397 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 52.74 Mbit/s
95th percentile per-packet one-way delay: 86.404 ms
Loss rate: 1.97%
```

Run 9: Report of QUIC Cubic — Data Link

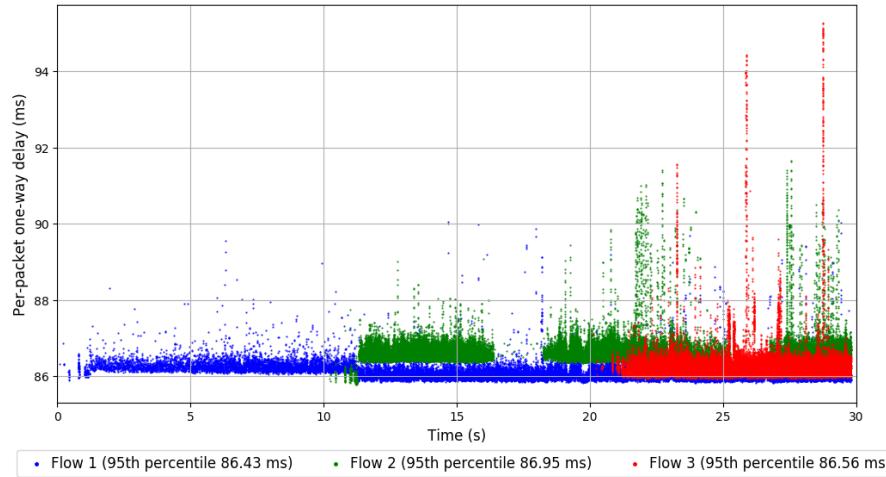
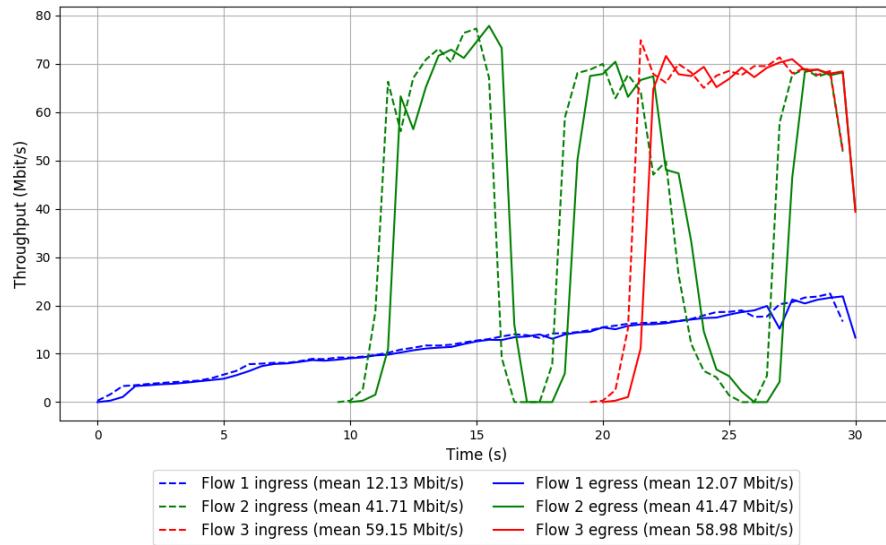


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-05-22 16:47:25
End at: 2018-05-22 16:47:55
Local clock offset: 0.182 ms
Remote clock offset: -0.815 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.85 Mbit/s
95th percentile per-packet one-way delay: 86.865 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 86.427 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 86.953 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 86.559 ms
Loss rate: 2.05%
```

Run 10: Report of QUIC Cubic — Data Link

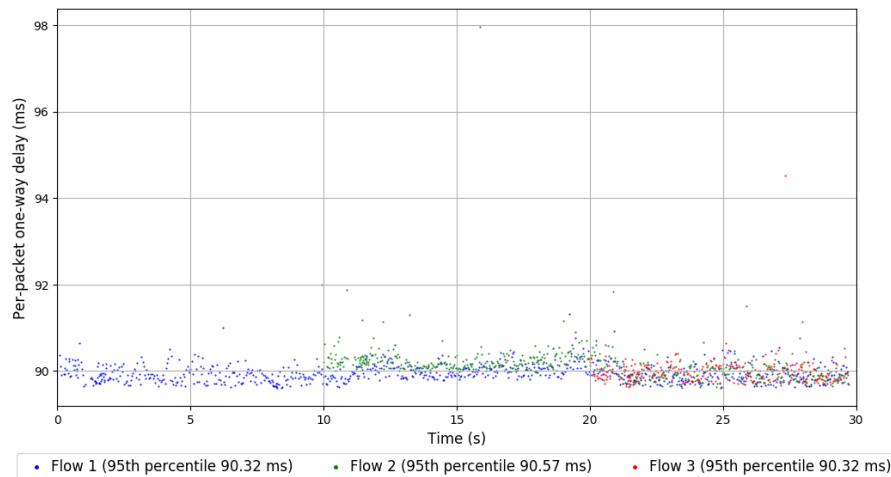
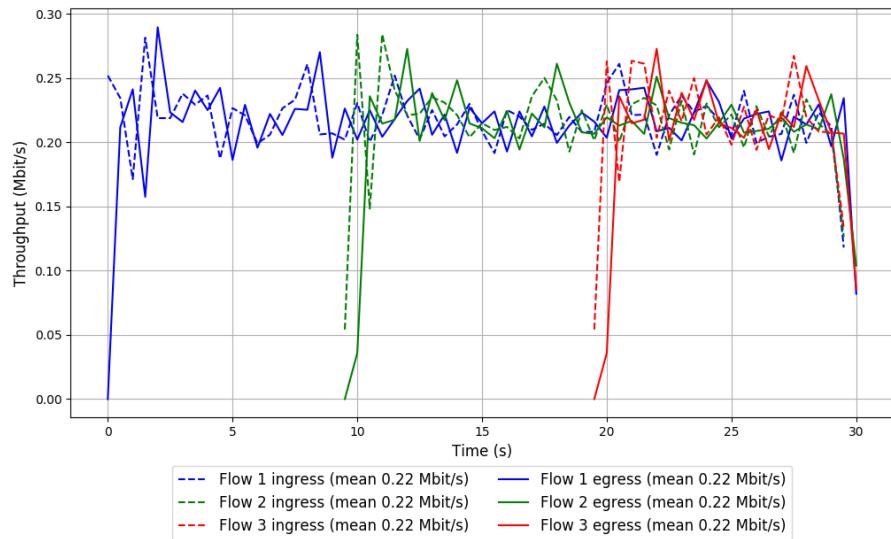


Run 1: Statistics of SCReAM

```
Start at: 2018-05-22 13:25:45
End at: 2018-05-22 13:26:15
Local clock offset: 3.658 ms
Remote clock offset: 0.864 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 90.406 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.316 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.571 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.317 ms
Loss rate: 1.85%
```

Run 1: Report of SCReAM — Data Link

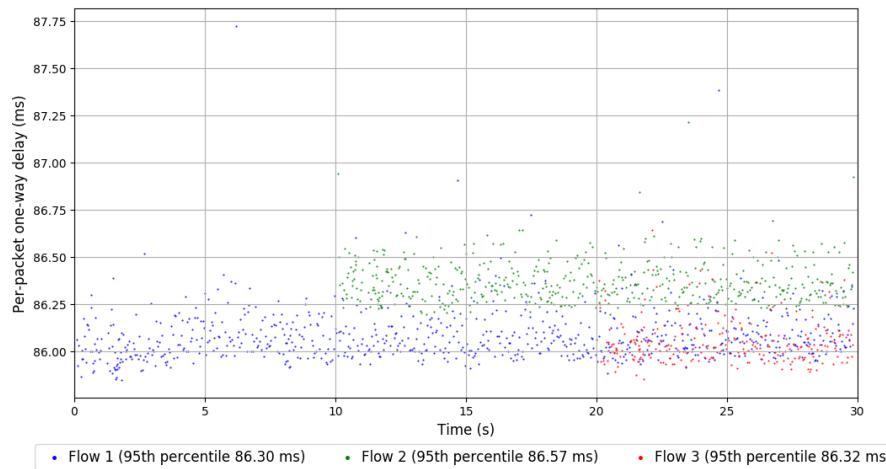
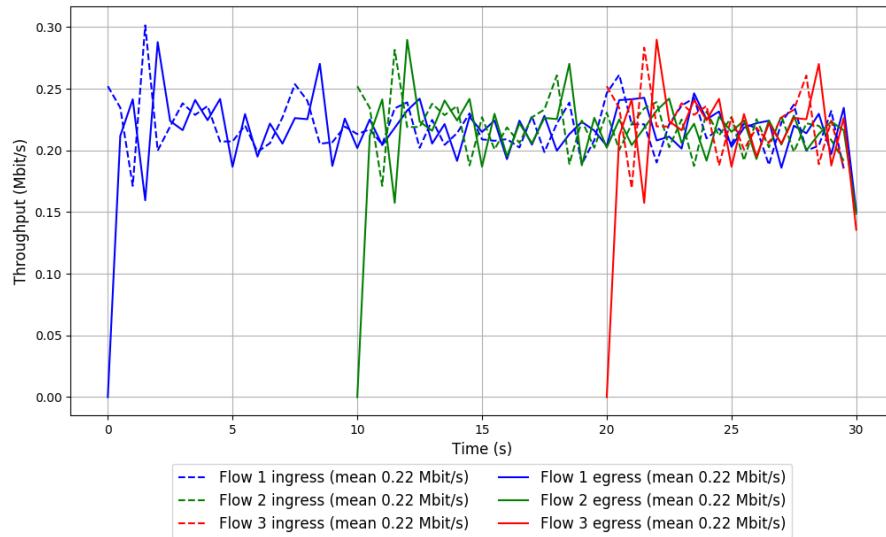


Run 2: Statistics of SCReAM

```
Start at: 2018-05-22 13:48:23
End at: 2018-05-22 13:48:53
Local clock offset: -0.163 ms
Remote clock offset: 0.947 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.500 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.300 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.567 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.316 ms
Loss rate: 1.85%
```

Run 2: Report of SCReAM — Data Link

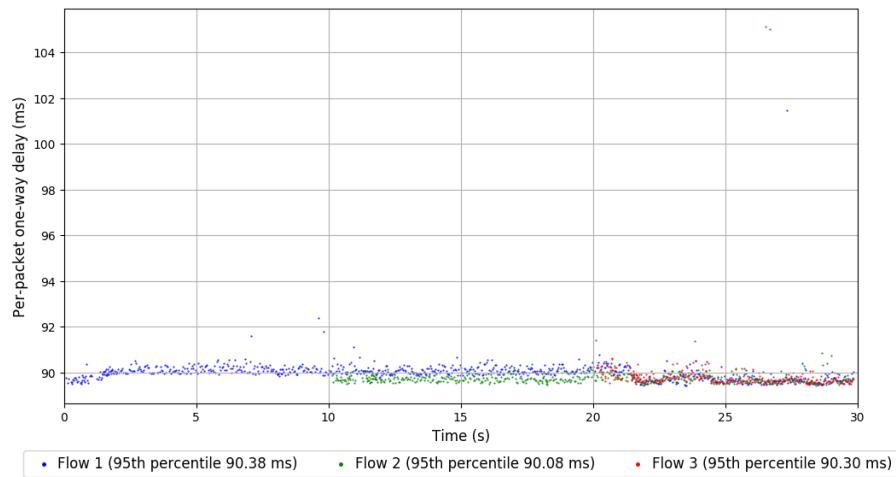
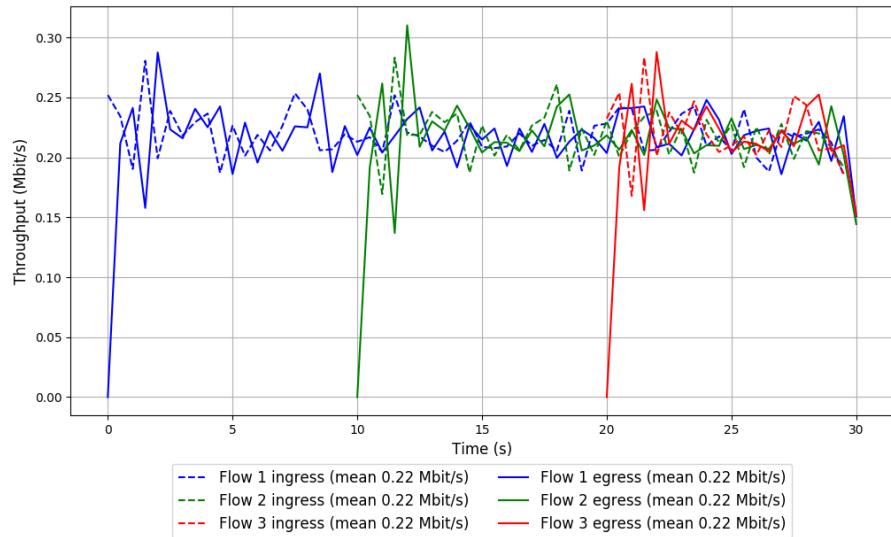


Run 3: Statistics of SCReAM

```
Start at: 2018-05-22 14:10:55
End at: 2018-05-22 14:11:25
Local clock offset: 3.461 ms
Remote clock offset: 1.081 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 90.343 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.383 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.078 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.297 ms
Loss rate: 1.50%
```

Run 3: Report of SCReAM — Data Link

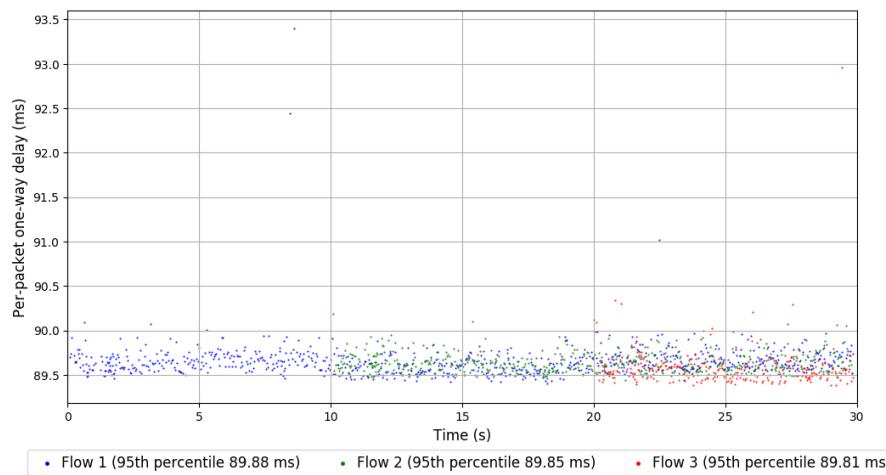
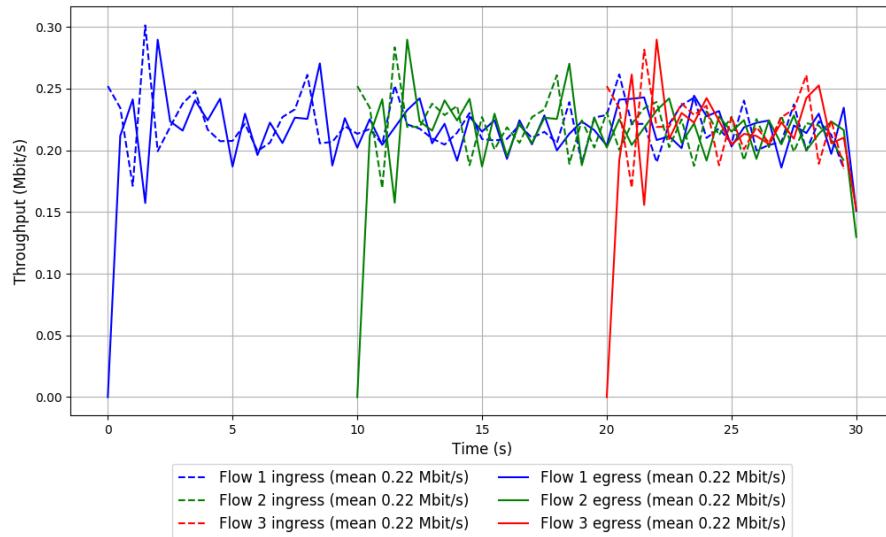


Run 4: Statistics of SCReAM

```
Start at: 2018-05-22 14:33:26
End at: 2018-05-22 14:33:56
Local clock offset: 3.453 ms
Remote clock offset: 1.181 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 89.862 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.883 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.852 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 89.813 ms
Loss rate: 1.85%
```

Run 4: Report of SCReAM — Data Link

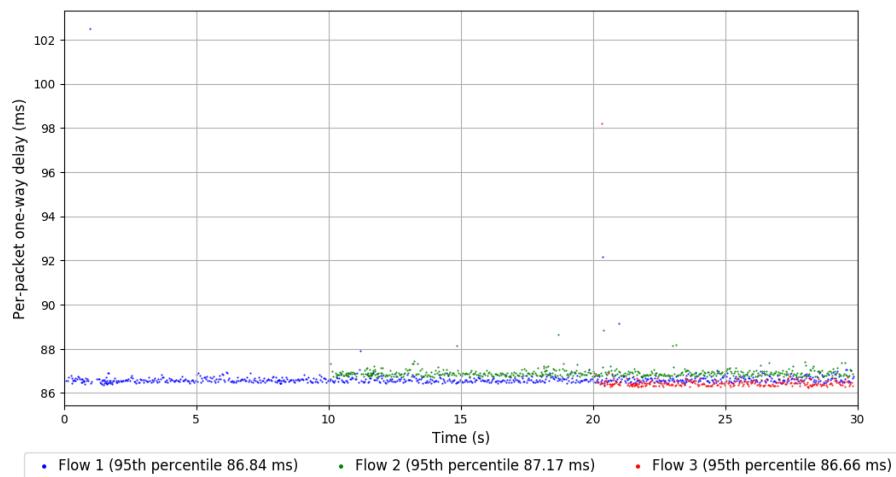
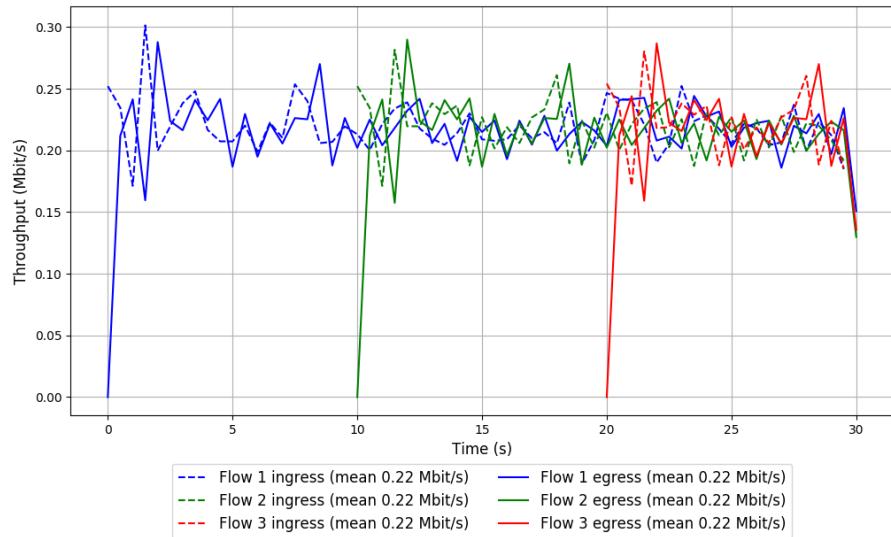


Run 5: Statistics of SCReAM

```
Start at: 2018-05-22 14:56:02
End at: 2018-05-22 14:56:32
Local clock offset: 0.355 ms
Remote clock offset: 1.308 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.028 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.843 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.165 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.663 ms
Loss rate: 1.85%
```

Run 5: Report of SCReAM — Data Link

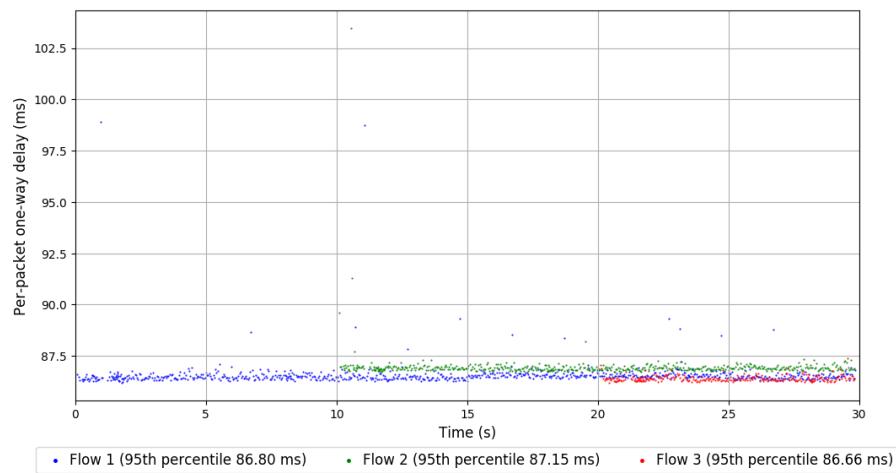
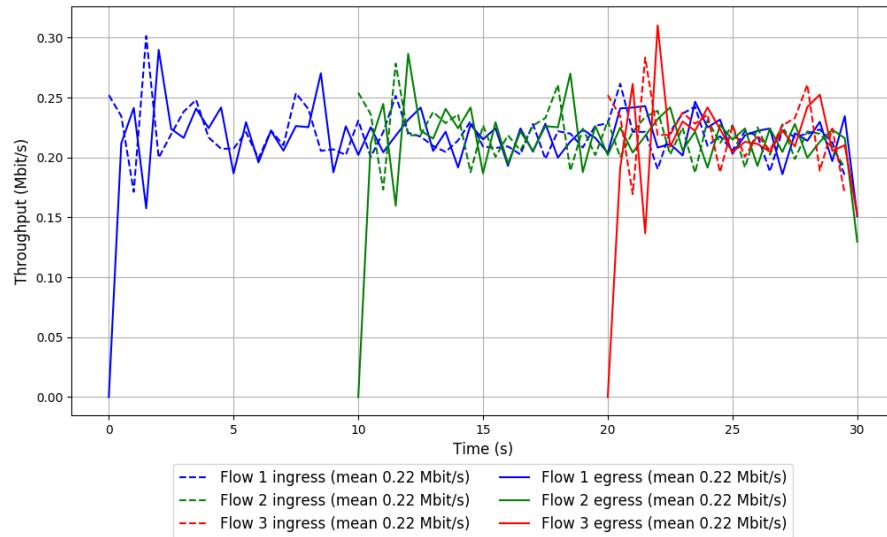


Run 6: Statistics of SCReAM

```
Start at: 2018-05-22 15:18:11
End at: 2018-05-22 15:18:41
Local clock offset: 0.272 ms
Remote clock offset: 1.369 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.054 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.803 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.154 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.659 ms
Loss rate: 1.50%
```

Run 6: Report of SCReAM — Data Link

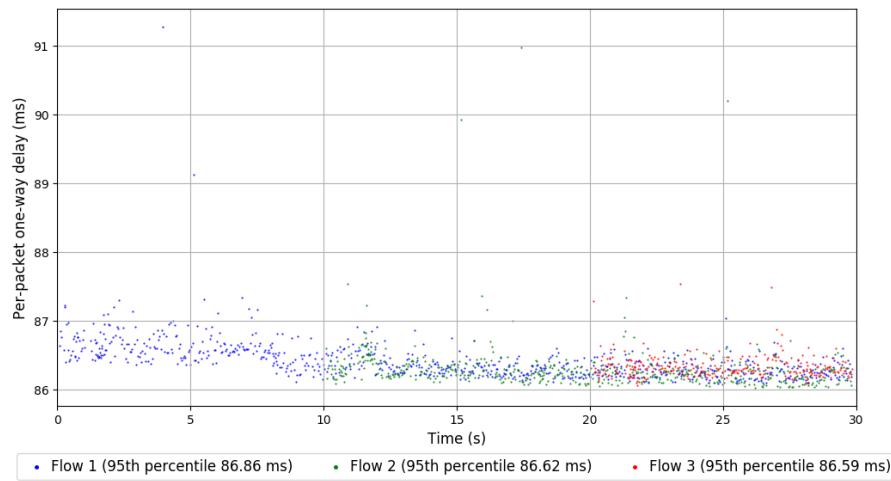
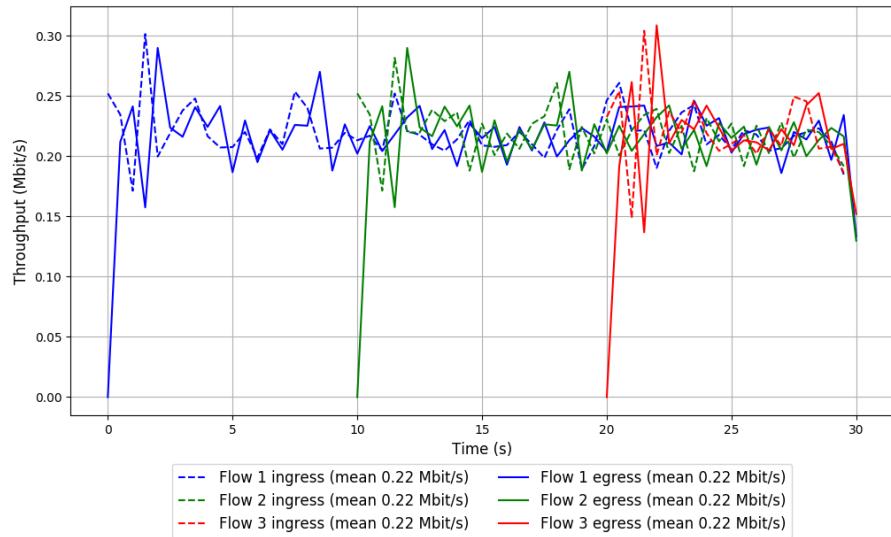


Run 7: Statistics of SCReAM

```
Start at: 2018-05-22 15:40:48
End at: 2018-05-22 15:41:18
Local clock offset: 0.267 ms
Remote clock offset: 1.507 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.771 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.864 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.623 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.592 ms
Loss rate: 1.50%
```

Run 7: Report of SCReAM — Data Link

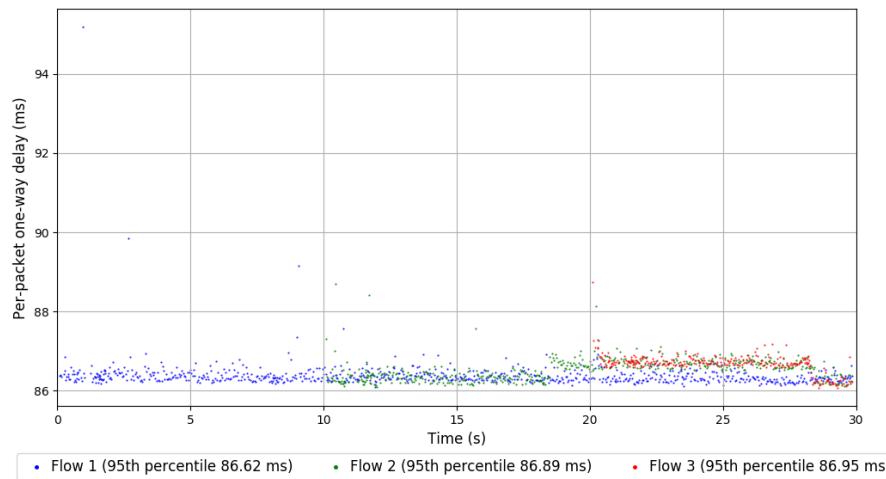
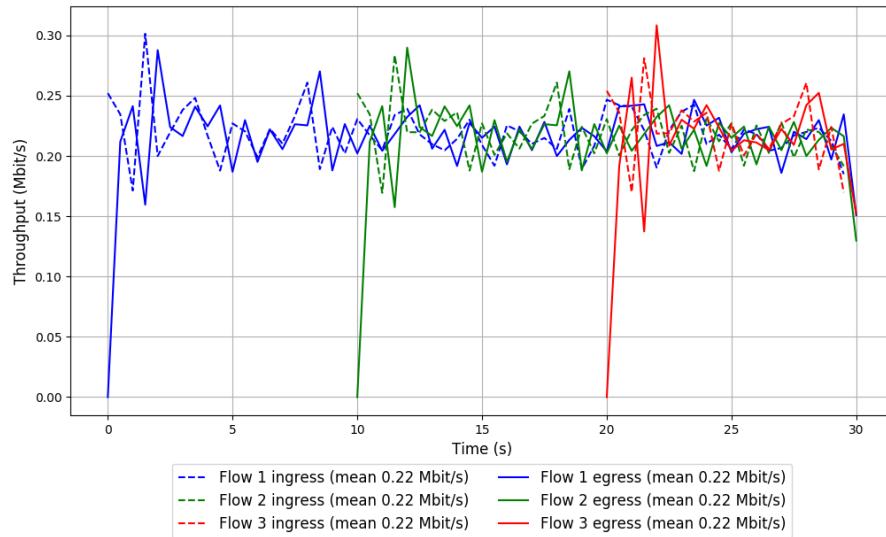


Run 8: Statistics of SCReAM

```
Start at: 2018-05-22 16:03:28
End at: 2018-05-22 16:03:58
Local clock offset: 0.144 ms
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.855 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.621 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.888 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.954 ms
Loss rate: 1.50%
```

Run 8: Report of SCReAM — Data Link

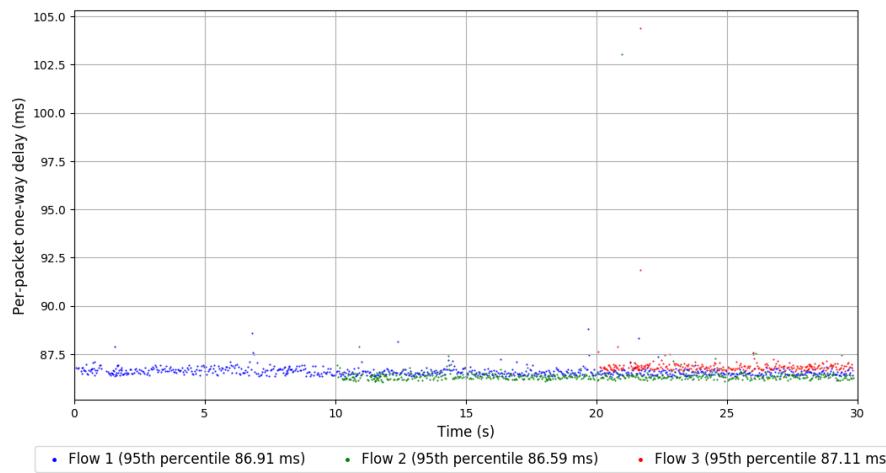
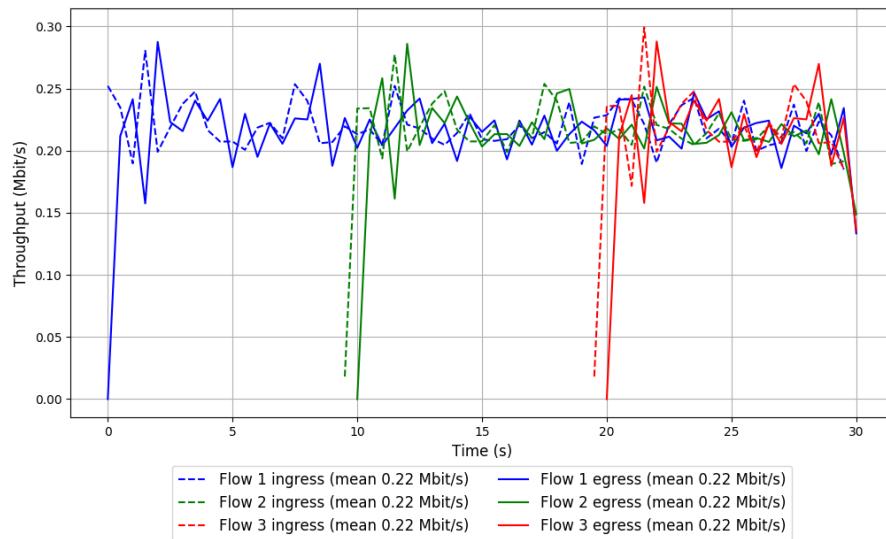


Run 9: Statistics of SCReAM

```
Start at: 2018-05-22 16:26:01
End at: 2018-05-22 16:26:31
Local clock offset: 0.241 ms
Remote clock offset: -0.536 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.959 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.912 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.595 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.115 ms
Loss rate: 1.85%
```

Run 9: Report of SCReAM — Data Link

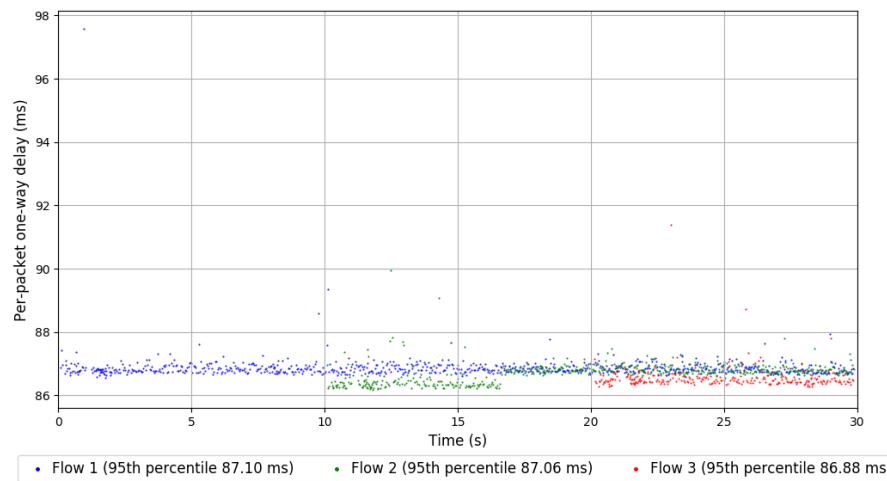
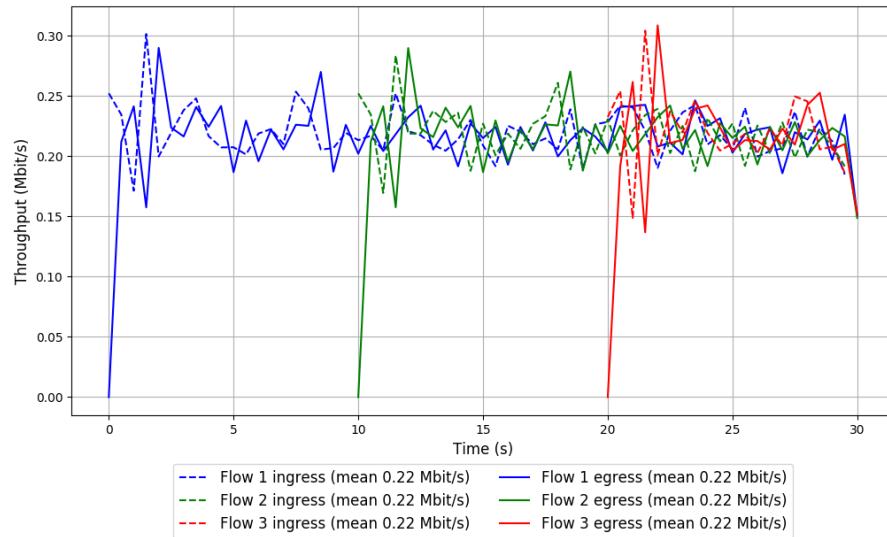


Run 10: Statistics of SCReAM

```
Start at: 2018-05-22 16:48:40
End at: 2018-05-22 16:49:10
Local clock offset: 0.31 ms
Remote clock offset: -0.892 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 87.086 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.103 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.059 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.884 ms
Loss rate: 1.50%
```

Run 10: Report of SCReAM — Data Link

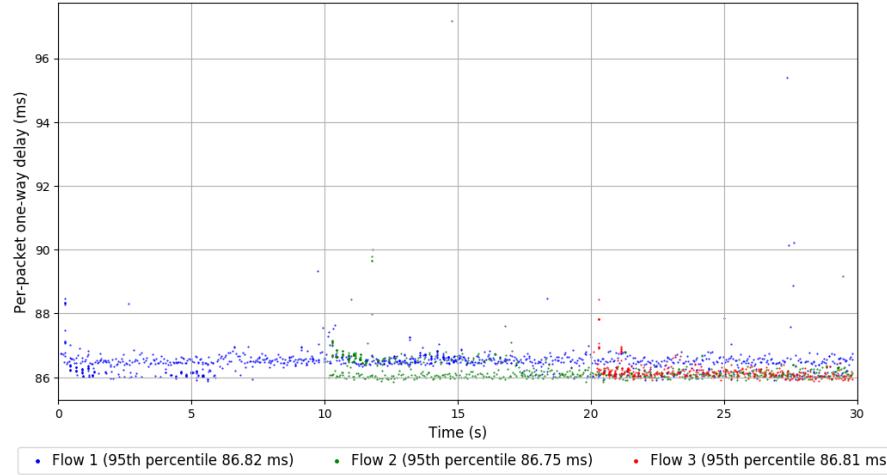
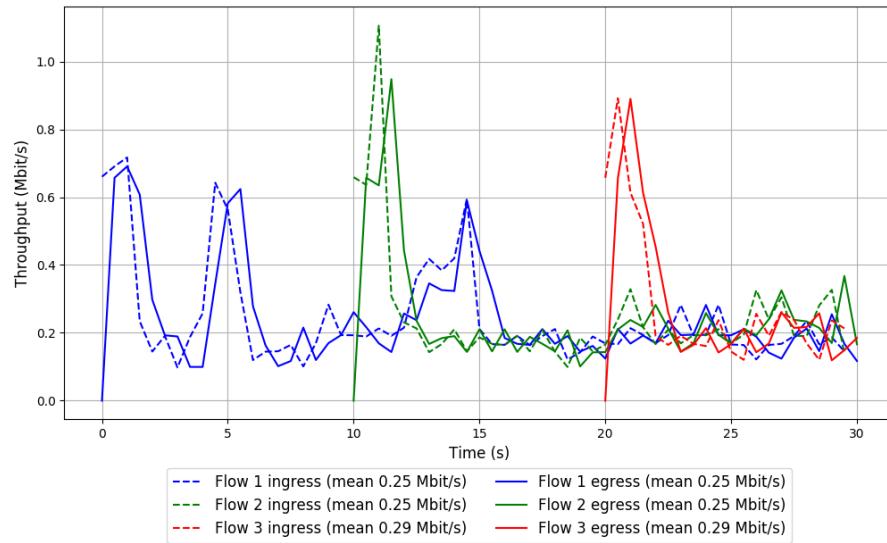


Run 1: Statistics of Sprout

```
Start at: 2018-05-22 13:10:09
End at: 2018-05-22 13:10:39
Local clock offset: -0.138 ms
Remote clock offset: 0.732 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 86.802 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.821 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.752 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.805 ms
Loss rate: 2.07%
```

Run 1: Report of Sprout — Data Link

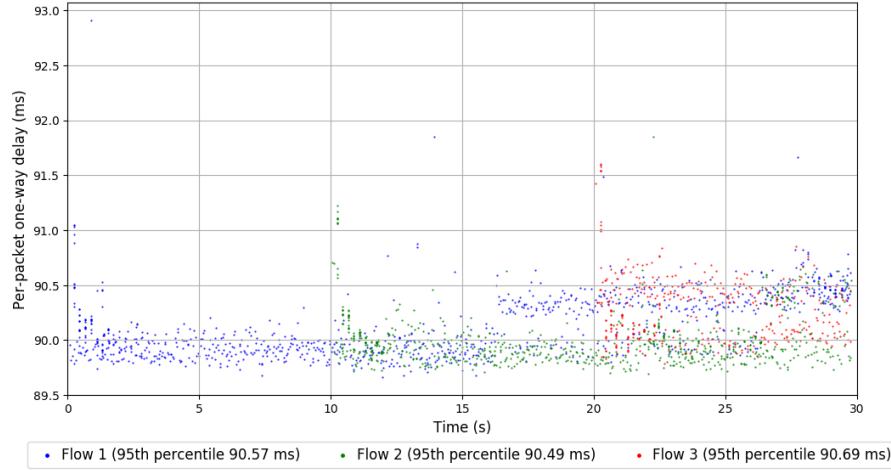
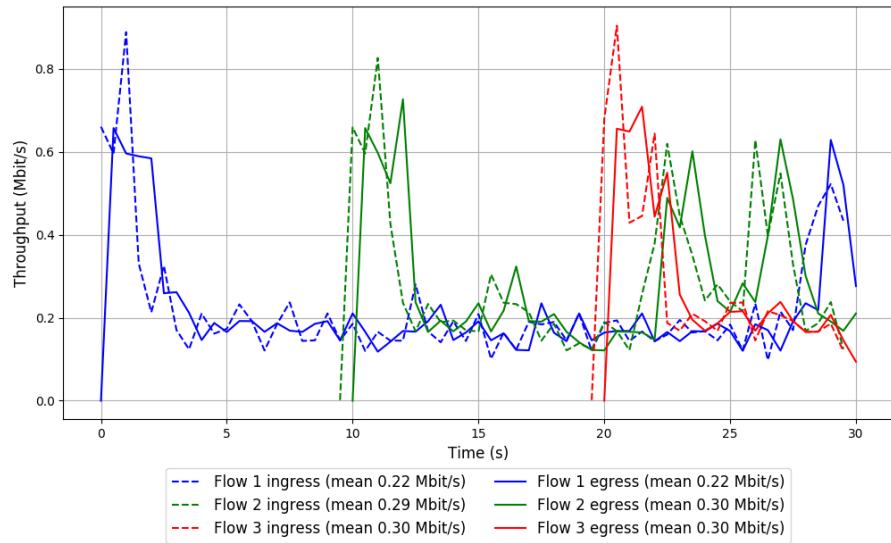


Run 2: Statistics of Sprout

```
Start at: 2018-05-22 13:32:40
End at: 2018-05-22 13:33:10
Local clock offset: 3.881 ms
Remote clock offset: 0.922 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 90.583 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 90.569 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 90.492 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 90.694 ms
Loss rate: 1.17%
```

Run 2: Report of Sprout — Data Link

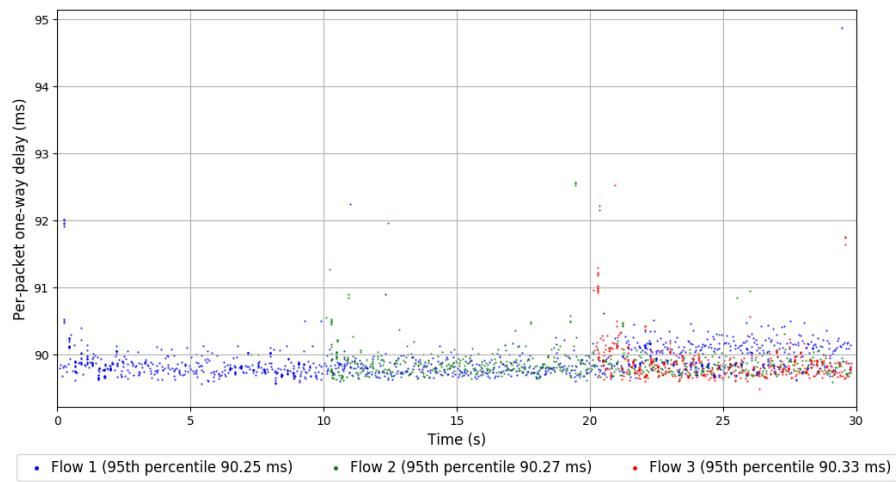
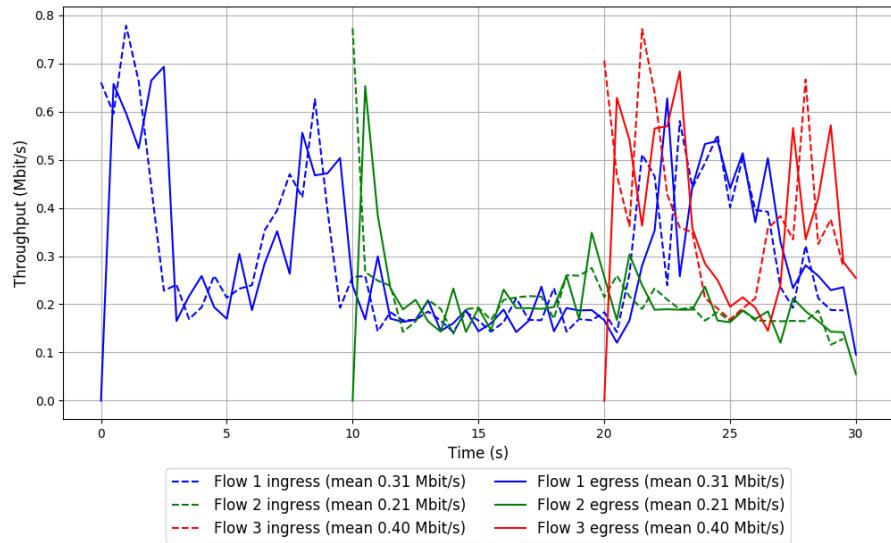


Run 3: Statistics of Sprout

```
Start at: 2018-05-22 13:55:15
End at: 2018-05-22 13:55:45
Local clock offset: 3.657 ms
Remote clock offset: 1.011 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 90.253 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 90.247 ms
Loss rate: 0.51%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 90.268 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 90.327 ms
Loss rate: 1.48%
```

Run 3: Report of Sprout — Data Link

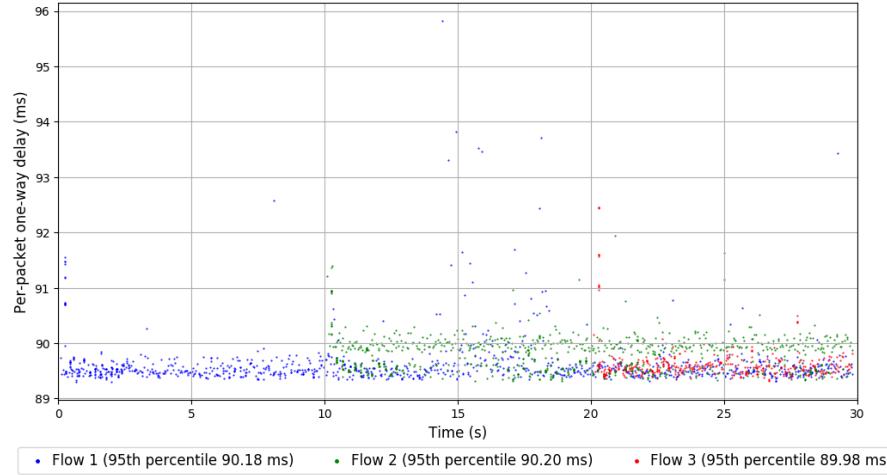
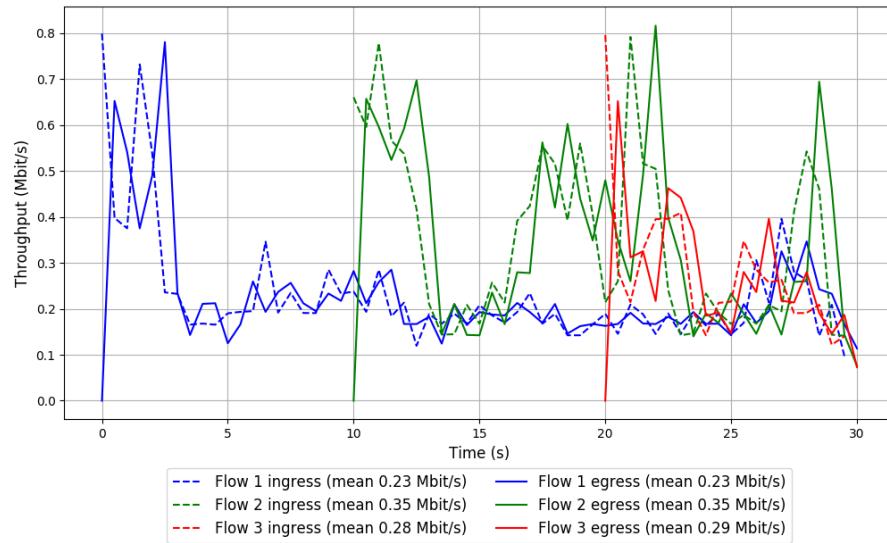


Run 4: Statistics of Sprout

```
Start at: 2018-05-22 14:17:53
End at: 2018-05-22 14:18:23
Local clock offset: 3.428 ms
Remote clock offset: 1.094 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 90.194 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 90.178 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 90.201 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 89.979 ms
Loss rate: 1.23%
```

Run 4: Report of Sprout — Data Link

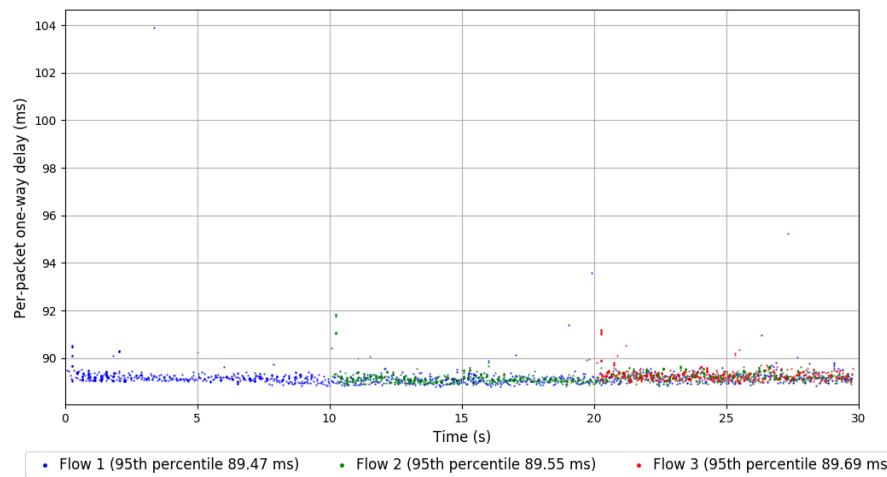
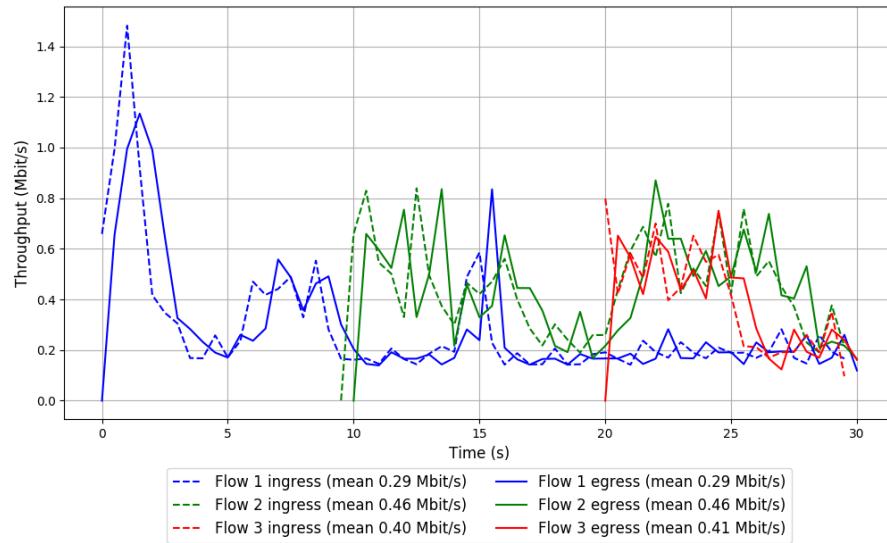


Run 5: Statistics of Sprout

```
Start at: 2018-05-22 14:40:19
End at: 2018-05-22 14:40:49
Local clock offset: 2.977 ms
Remote clock offset: 1.187 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 89.551 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 89.468 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 89.549 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 89.692 ms
Loss rate: 0.63%
```

Run 5: Report of Sprout — Data Link

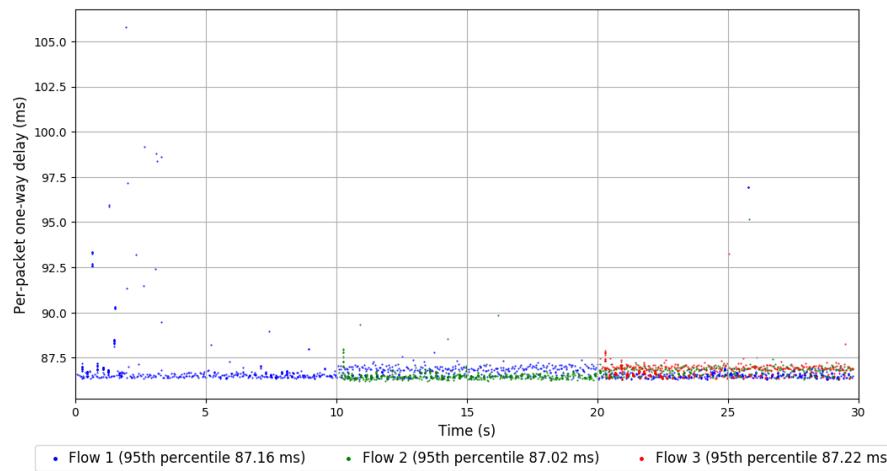
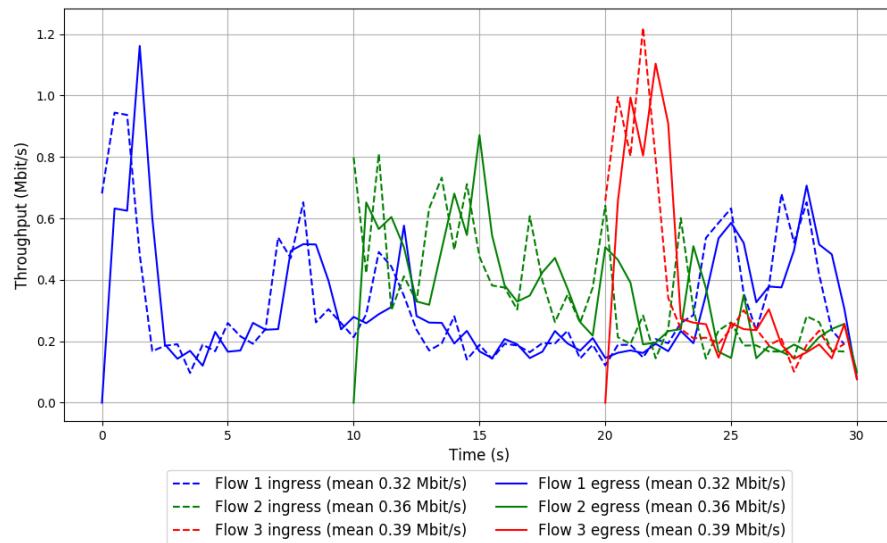


Run 6: Statistics of Sprout

```
Start at: 2018-05-22 15:02:56
End at: 2018-05-22 15:03:26
Local clock offset: 0.376 ms
Remote clock offset: 1.338 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 87.132 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 87.164 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 87.015 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 87.217 ms
Loss rate: 1.51%
```

Run 6: Report of Sprout — Data Link

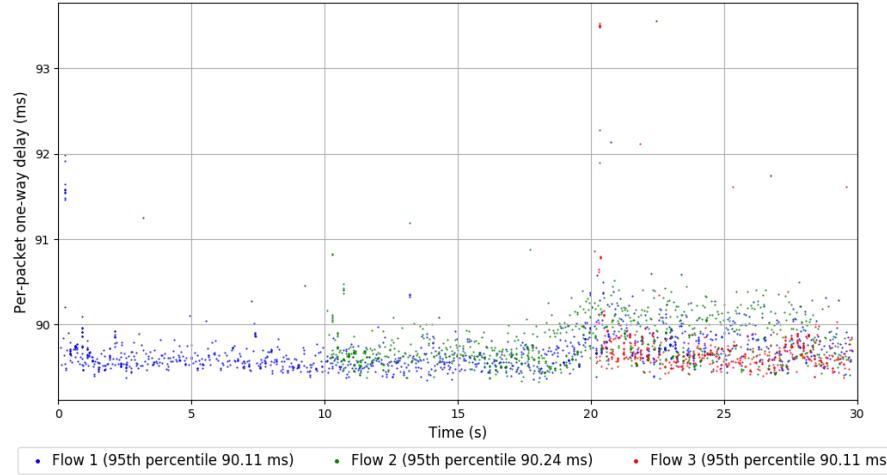
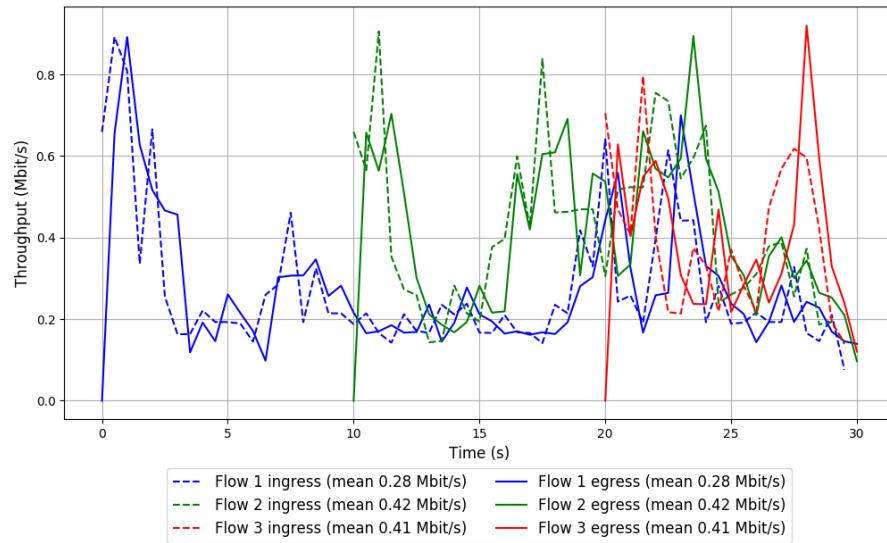


Run 7: Statistics of Sprout

```
Start at: 2018-05-22 15:25:08
End at: 2018-05-22 15:25:38
Local clock offset: 3.547 ms
Remote clock offset: 1.477 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 90.210 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 90.112 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 90.237 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 90.114 ms
Loss rate: 0.88%
```

Run 7: Report of Sprout — Data Link

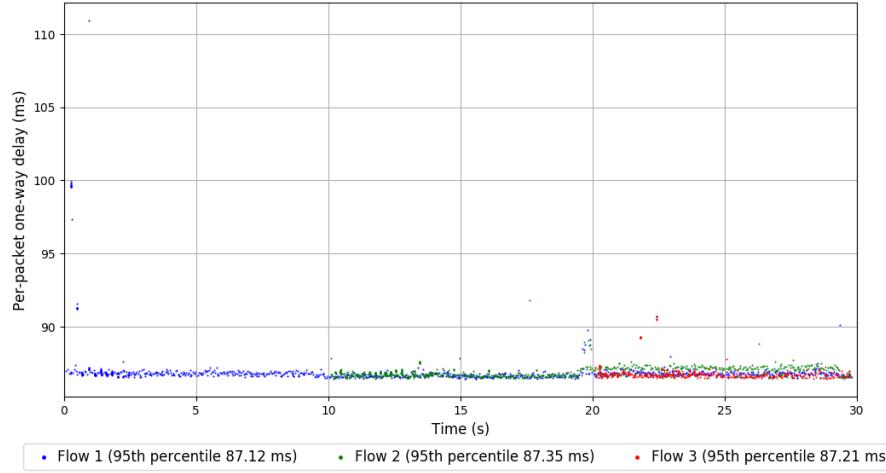
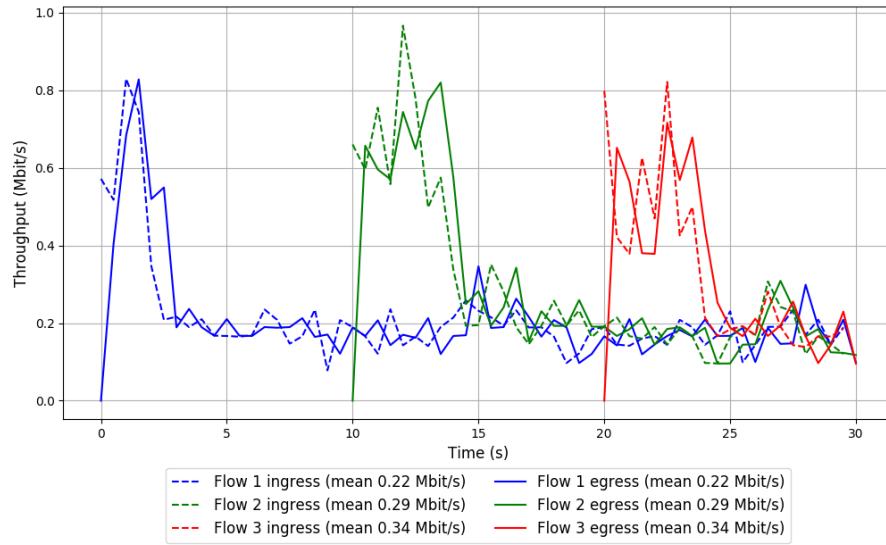


Run 8: Statistics of Sprout

```
Start at: 2018-05-22 15:47:47
End at: 2018-05-22 15:48:17
Local clock offset: 0.641 ms
Remote clock offset: 0.521 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 87.299 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.122 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 87.353 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 87.209 ms
Loss rate: 1.39%
```

Run 8: Report of Sprout — Data Link

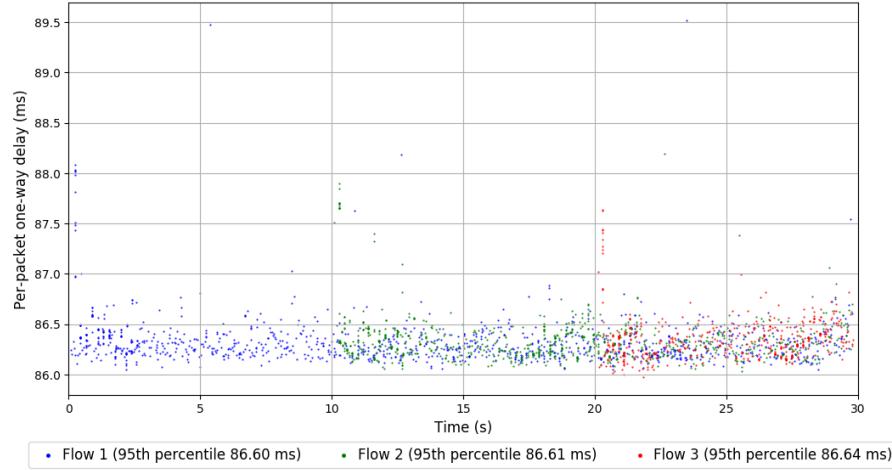
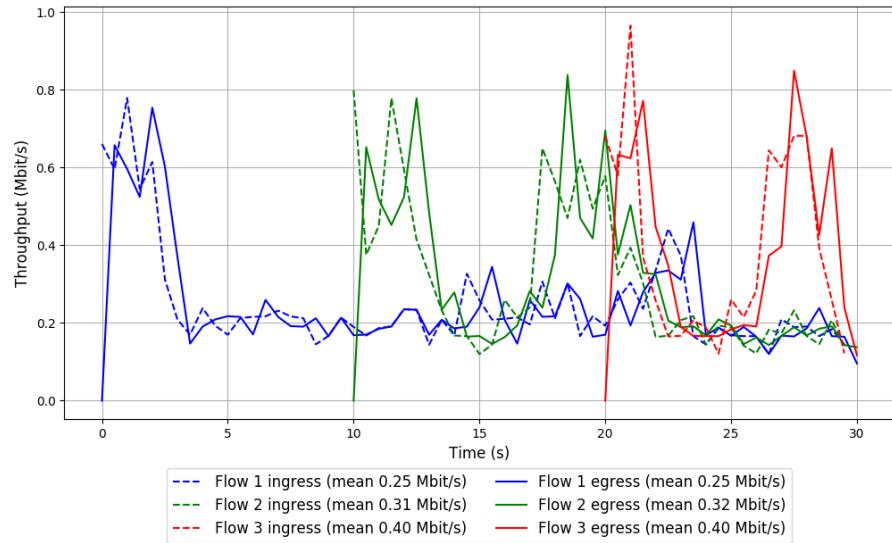


Run 9: Statistics of Sprout

```
Start at: 2018-05-22 16:10:24
End at: 2018-05-22 16:10:54
Local clock offset: 0.186 ms
Remote clock offset: -0.396 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 86.616 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.602 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 86.605 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 86.644 ms
Loss rate: 0.34%
```

Run 9: Report of Sprout — Data Link

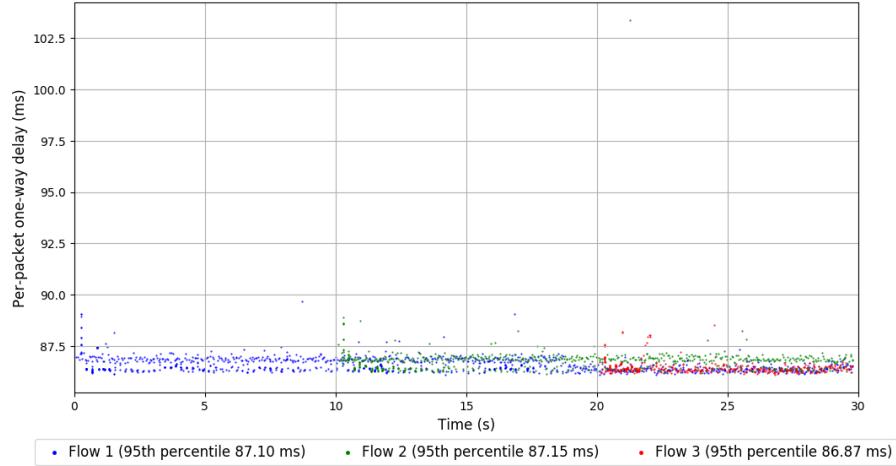
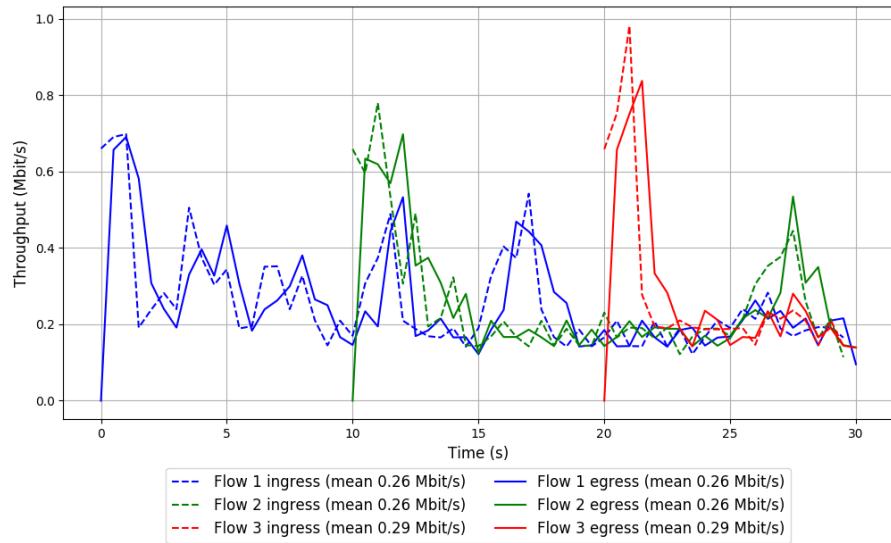


Run 10: Statistics of Sprout

```
Start at: 2018-05-22 16:32:57
End at: 2018-05-22 16:33:27
Local clock offset: 0.287 ms
Remote clock offset: -0.704 ms

# Below is generated by plot.py at 2018-05-22 18:10:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 87.127 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 87.098 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 87.152 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.871 ms
Loss rate: 1.24%
```

Run 10: Report of Sprout — Data Link

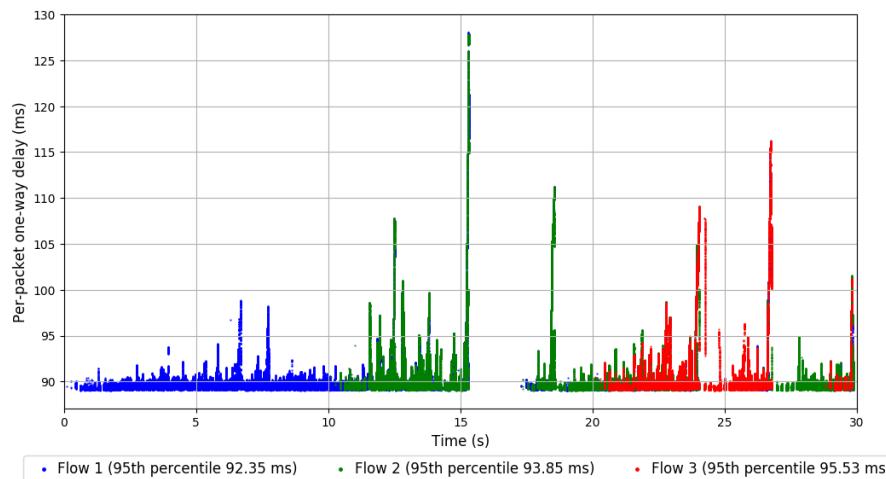
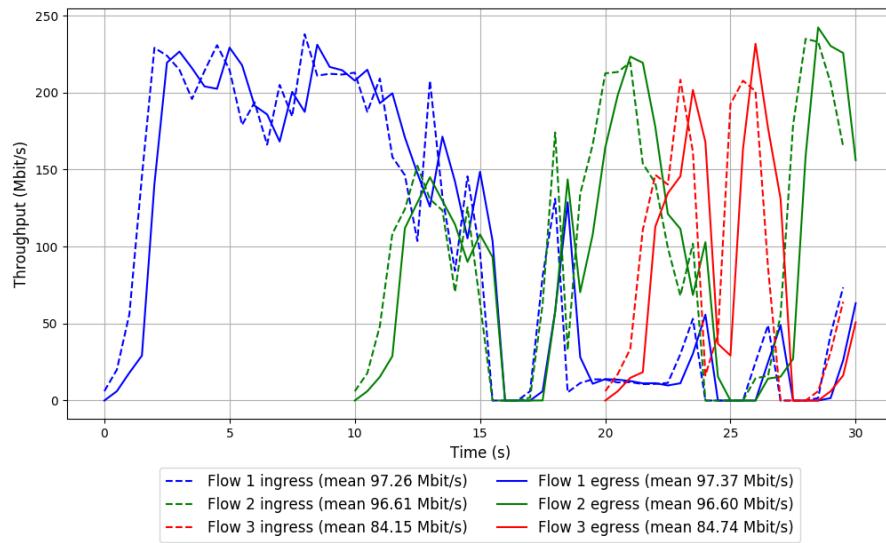


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-05-22 13:22:58
End at: 2018-05-22 13:23:28
Local clock offset: 3.261 ms
Remote clock offset: 0.915 ms

# Below is generated by plot.py at 2018-05-22 18:10:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 189.10 Mbit/s
95th percentile per-packet one-way delay: 93.194 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 92.350 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 96.60 Mbit/s
95th percentile per-packet one-way delay: 93.849 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 84.74 Mbit/s
95th percentile per-packet one-way delay: 95.534 ms
Loss rate: 1.71%
```

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

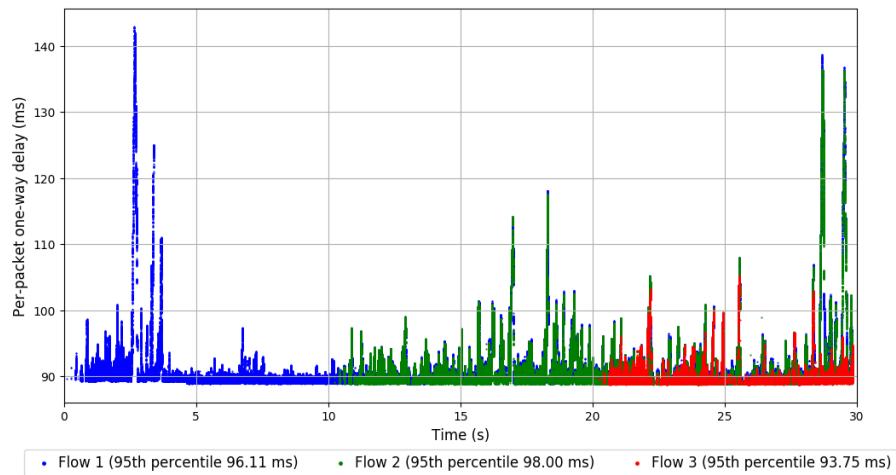
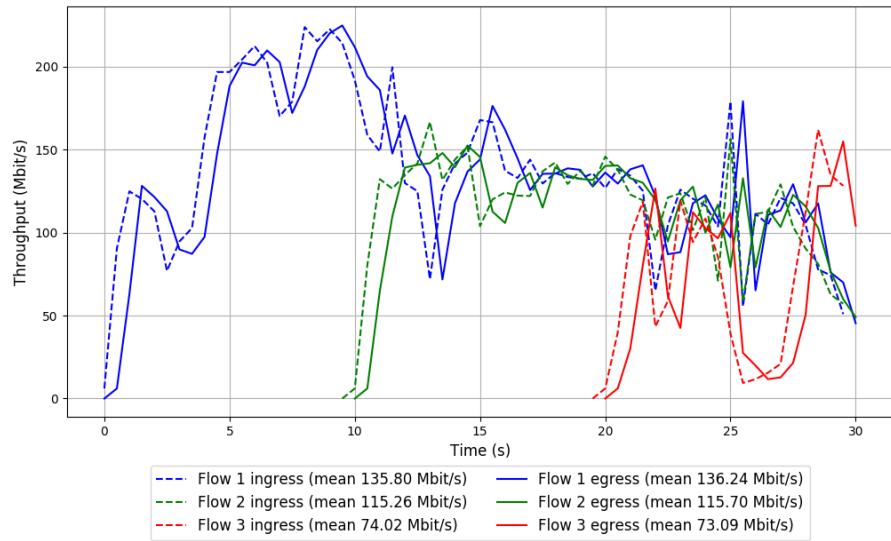


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-05-22 13:45:32
End at: 2018-05-22 13:46:02
Local clock offset: 3.056 ms
Remote clock offset: 0.96 ms

# Below is generated by plot.py at 2018-05-22 18:12:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.14 Mbit/s
95th percentile per-packet one-way delay: 96.500 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 136.24 Mbit/s
95th percentile per-packet one-way delay: 96.105 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 115.70 Mbit/s
95th percentile per-packet one-way delay: 98.000 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 73.09 Mbit/s
95th percentile per-packet one-way delay: 93.745 ms
Loss rate: 2.97%
```

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

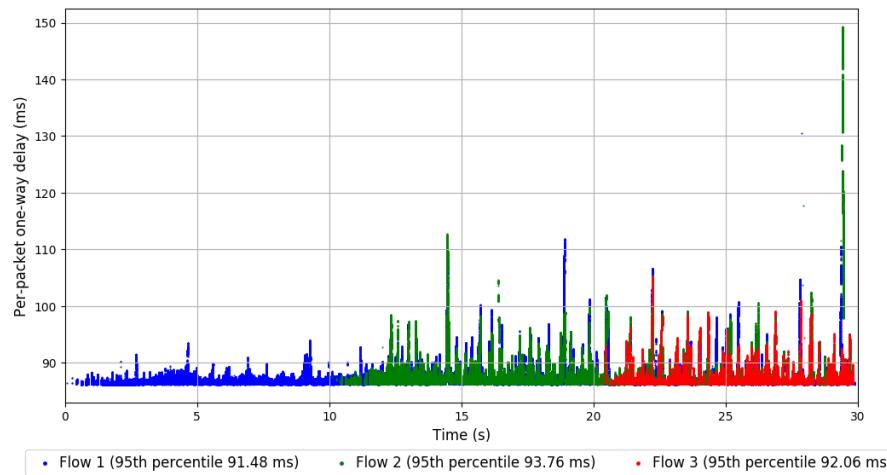
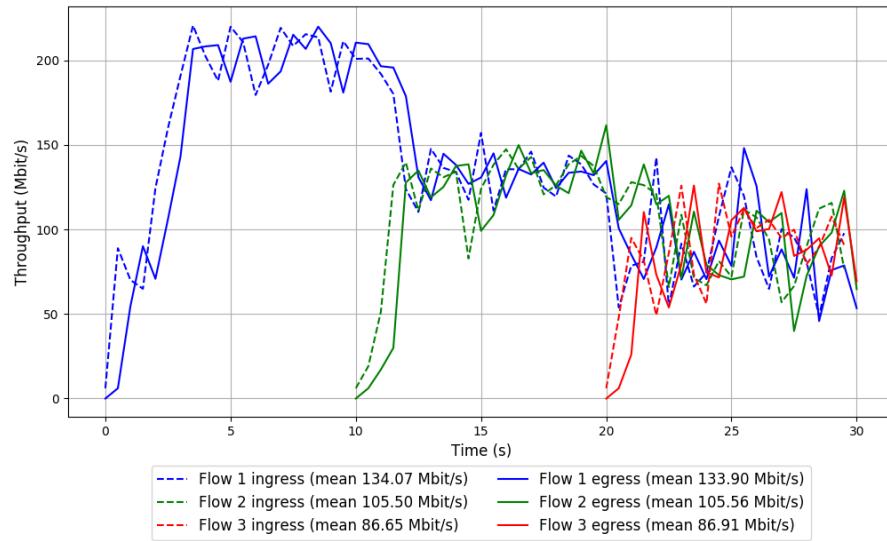


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-05-22 14:08:06
End at: 2018-05-22 14:08:36
Local clock offset: 0.312 ms
Remote clock offset: 1.041 ms

# Below is generated by plot.py at 2018-05-22 18:12:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 232.11 Mbit/s
95th percentile per-packet one-way delay: 92.335 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 133.90 Mbit/s
95th percentile per-packet one-way delay: 91.476 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 105.56 Mbit/s
95th percentile per-packet one-way delay: 93.756 ms
Loss rate: 0.81%
-- Flow 3:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 92.060 ms
Loss rate: 2.08%
```

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

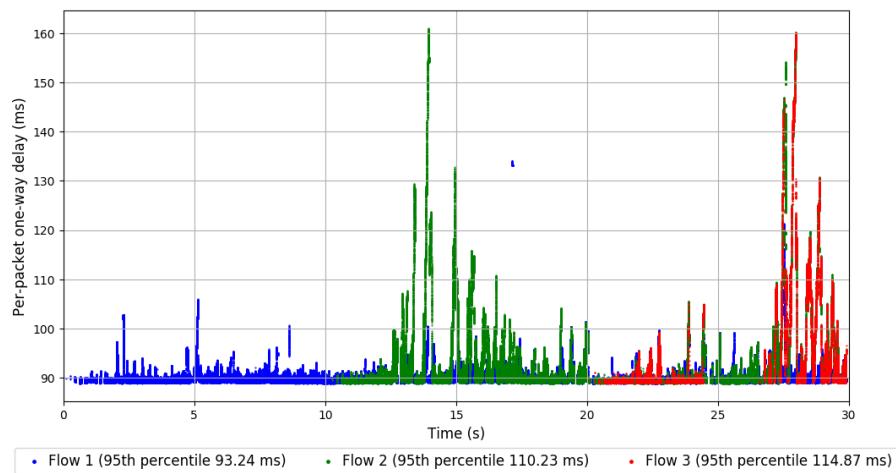
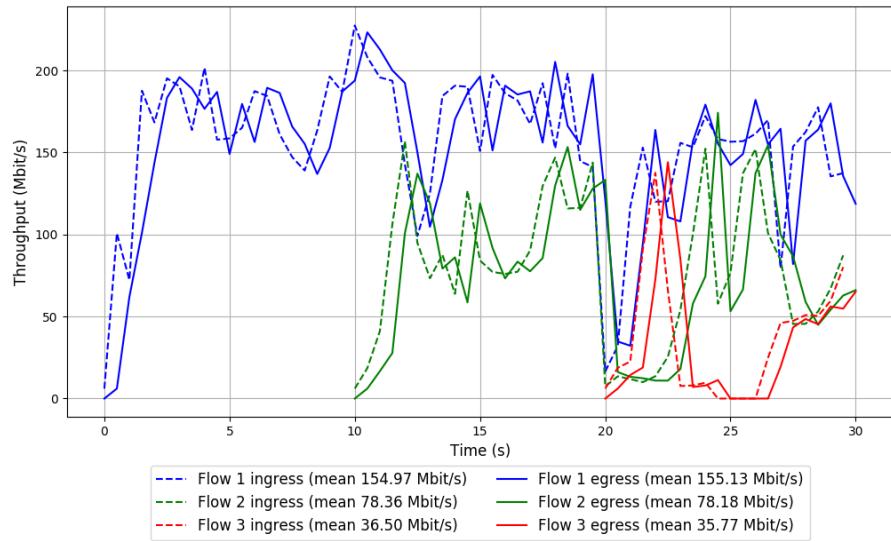


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-05-22 14:30:38
End at: 2018-05-22 14:31:08
Local clock offset: 3.116 ms
Remote clock offset: 1.192 ms

# Below is generated by plot.py at 2018-05-22 18:12:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 218.78 Mbit/s
95th percentile per-packet one-way delay: 98.012 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 155.13 Mbit/s
95th percentile per-packet one-way delay: 93.240 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 78.18 Mbit/s
95th percentile per-packet one-way delay: 110.228 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 35.77 Mbit/s
95th percentile per-packet one-way delay: 114.868 ms
Loss rate: 3.66%
```

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

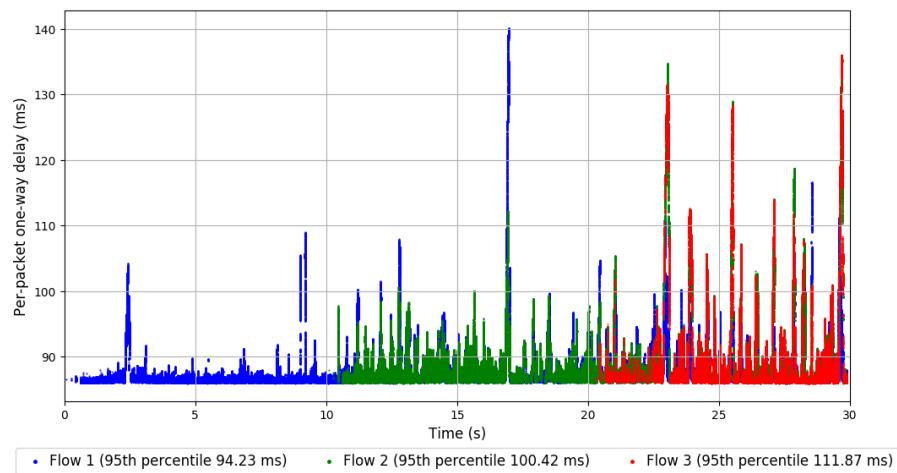
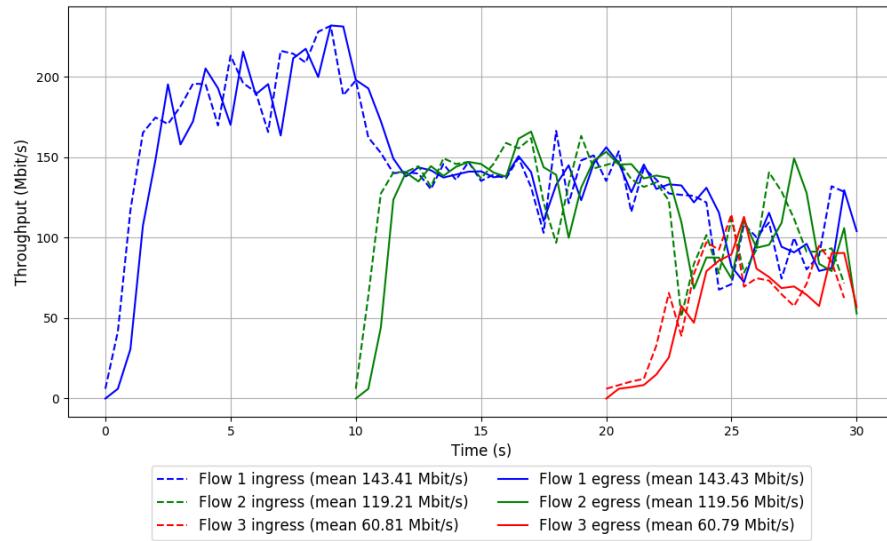


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-05-22 14:53:13
End at: 2018-05-22 14:53:43
Local clock offset: 0.186 ms
Remote clock offset: 1.276 ms

# Below is generated by plot.py at 2018-05-22 18:13:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 242.76 Mbit/s
95th percentile per-packet one-way delay: 97.714 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 143.43 Mbit/s
95th percentile per-packet one-way delay: 94.234 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 119.56 Mbit/s
95th percentile per-packet one-way delay: 100.420 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 60.79 Mbit/s
95th percentile per-packet one-way delay: 111.867 ms
Loss rate: 1.79%
```

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

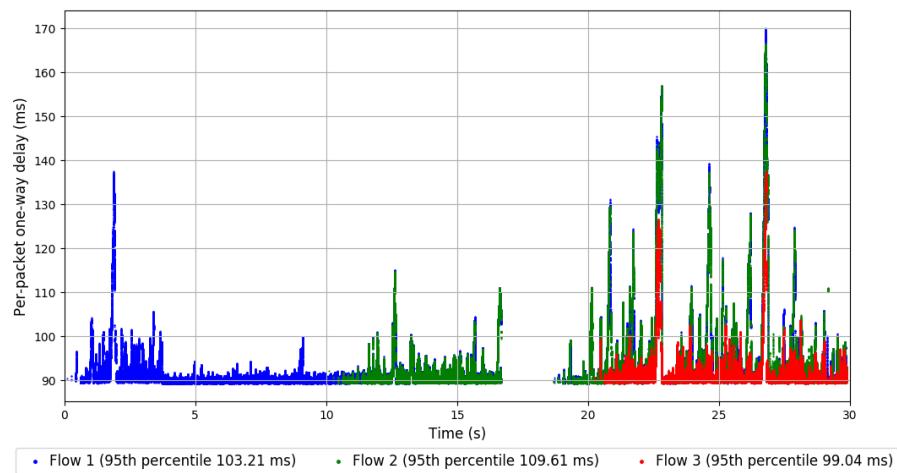
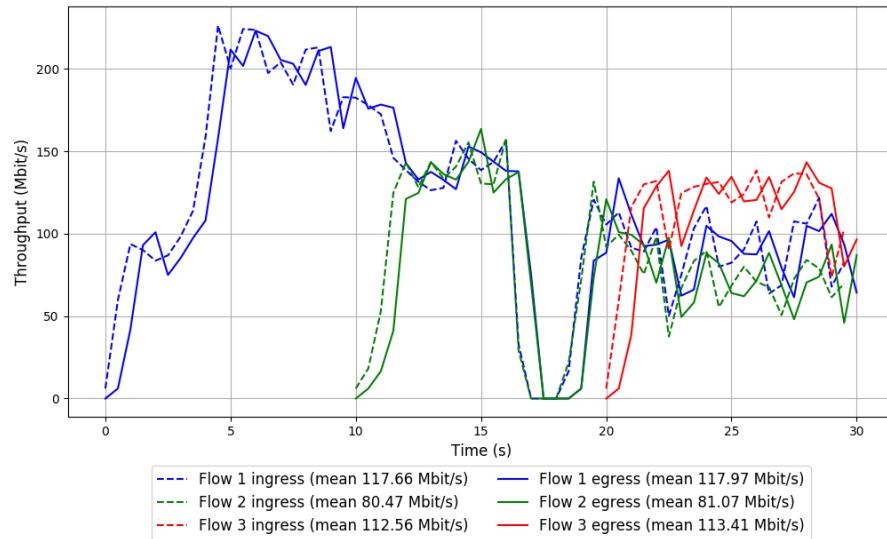


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-05-22 15:15:23
End at: 2018-05-22 15:15:53
Local clock offset: 3.617 ms
Remote clock offset: 1.498 ms

# Below is generated by plot.py at 2018-05-22 18:13:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.00 Mbit/s
95th percentile per-packet one-way delay: 104.423 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 117.97 Mbit/s
95th percentile per-packet one-way delay: 103.210 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 81.07 Mbit/s
95th percentile per-packet one-way delay: 109.609 ms
Loss rate: 0.15%
-- Flow 3:
Average throughput: 113.41 Mbit/s
95th percentile per-packet one-way delay: 99.044 ms
Loss rate: 0.99%
```

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

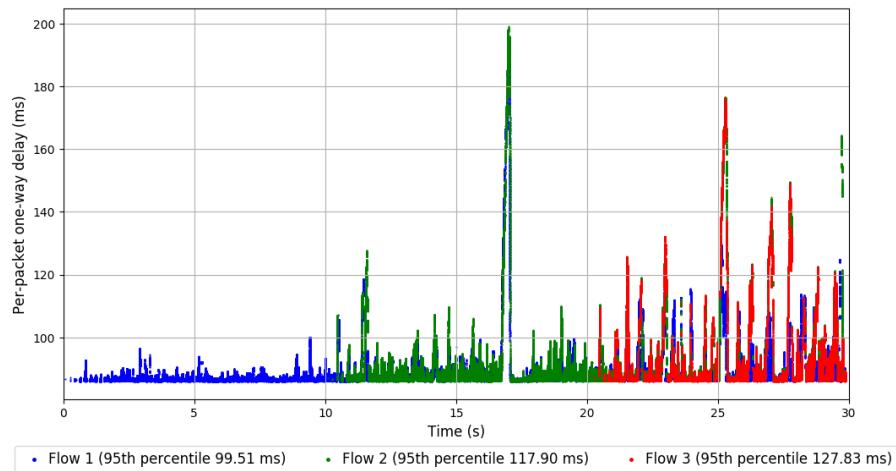
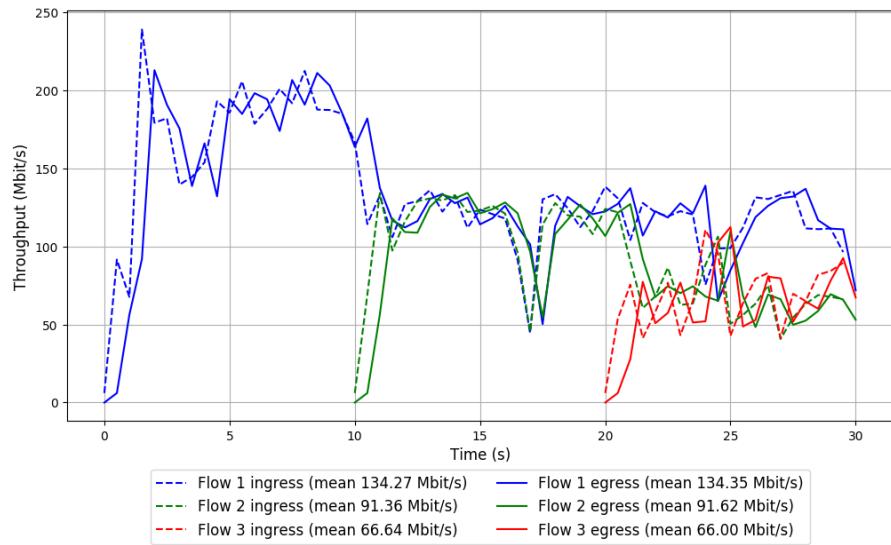


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-05-22 15:37:58
End at: 2018-05-22 15:38:29
Local clock offset: 0.237 ms
Remote clock offset: 1.445 ms

# Below is generated by plot.py at 2018-05-22 18:16:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 216.66 Mbit/s
95th percentile per-packet one-way delay: 108.562 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 134.35 Mbit/s
95th percentile per-packet one-way delay: 99.514 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 91.62 Mbit/s
95th percentile per-packet one-way delay: 117.899 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 66.00 Mbit/s
95th percentile per-packet one-way delay: 127.835 ms
Loss rate: 2.65%
```

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

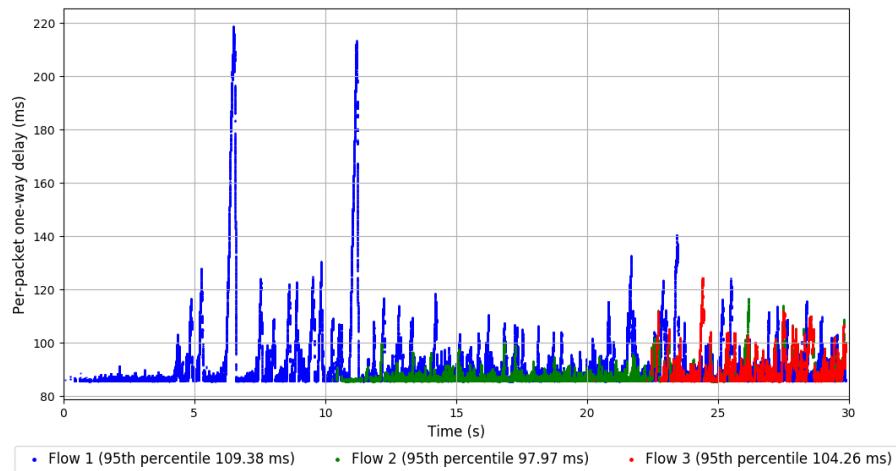
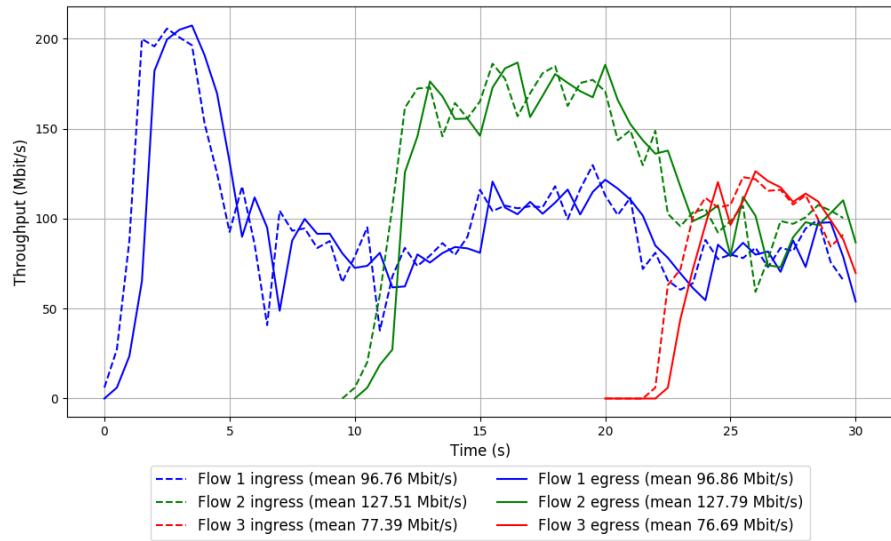


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-05-22 16:00:39
End at: 2018-05-22 16:01:09
Local clock offset: -0.18 ms
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2018-05-22 18:17:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.90 Mbit/s
95th percentile per-packet one-way delay: 104.560 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 96.86 Mbit/s
95th percentile per-packet one-way delay: 109.382 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 127.79 Mbit/s
95th percentile per-packet one-way delay: 97.973 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 104.264 ms
Loss rate: 2.57%
```

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

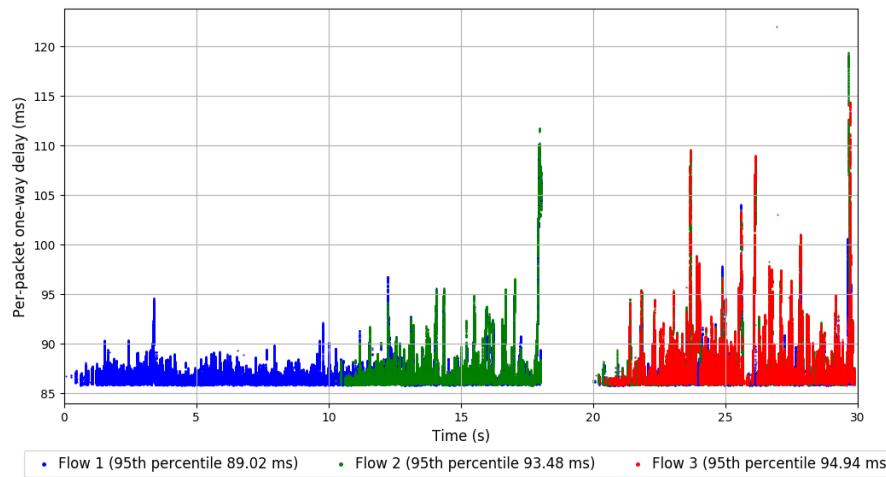
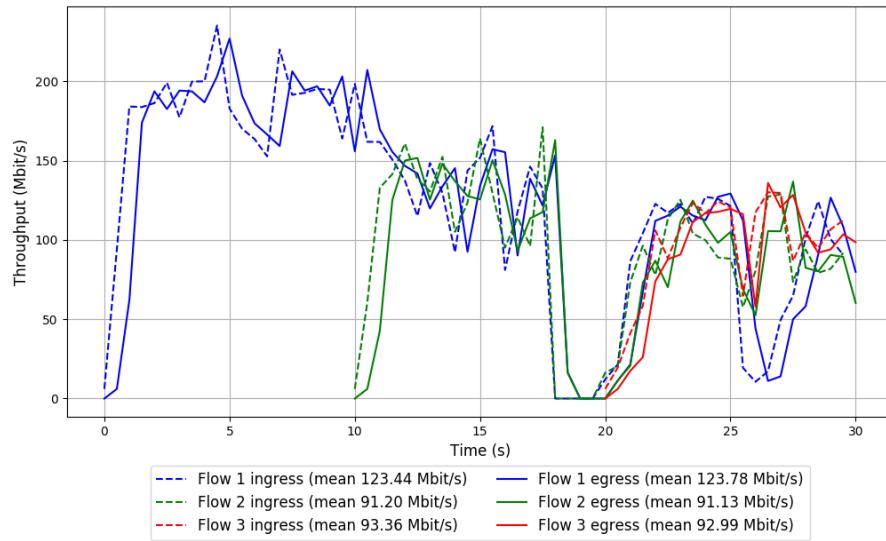


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-05-22 16:23:12
End at: 2018-05-22 16:23:42
Local clock offset: -0.03 ms
Remote clock offset: -0.597 ms

# Below is generated by plot.py at 2018-05-22 18:18:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 214.59 Mbit/s
95th percentile per-packet one-way delay: 91.435 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 123.78 Mbit/s
95th percentile per-packet one-way delay: 89.020 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 93.481 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 92.99 Mbit/s
95th percentile per-packet one-way delay: 94.945 ms
Loss rate: 2.14%
```

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

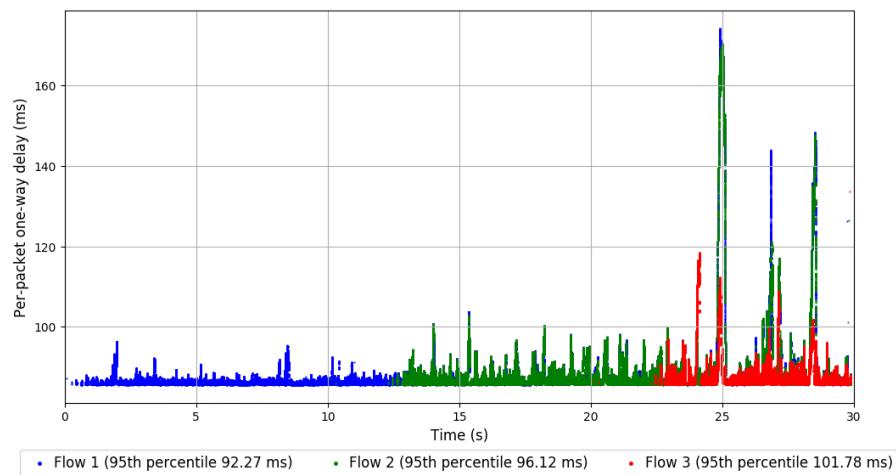
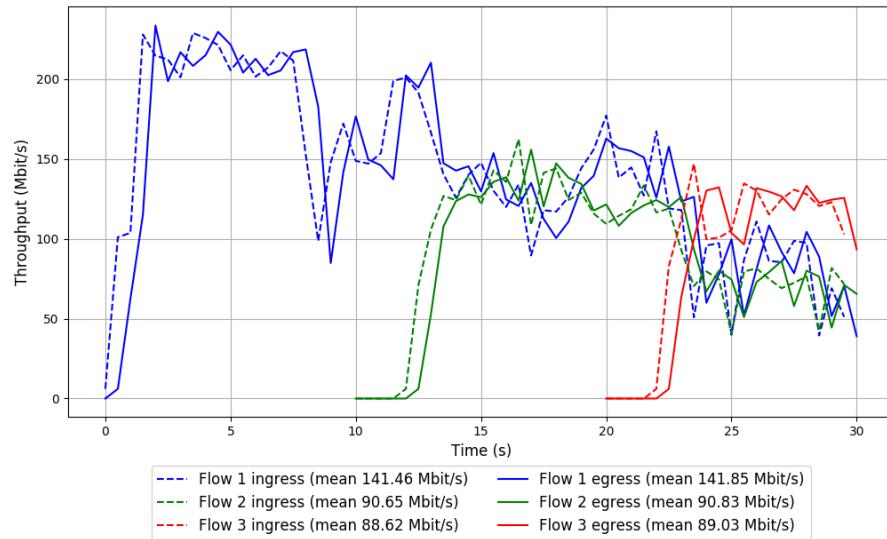


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-05-22 16:45:50
End at: 2018-05-22 16:46:20
Local clock offset: -0.099 ms
Remote clock offset: -0.831 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.22 Mbit/s
95th percentile per-packet one-way delay: 94.238 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 141.85 Mbit/s
95th percentile per-packet one-way delay: 92.267 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 96.124 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 89.03 Mbit/s
95th percentile per-packet one-way delay: 101.775 ms
Loss rate: 1.52%
```

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

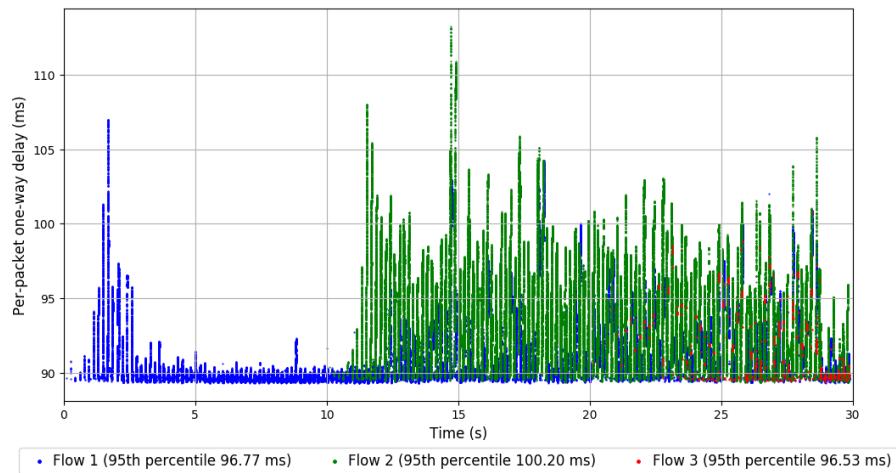
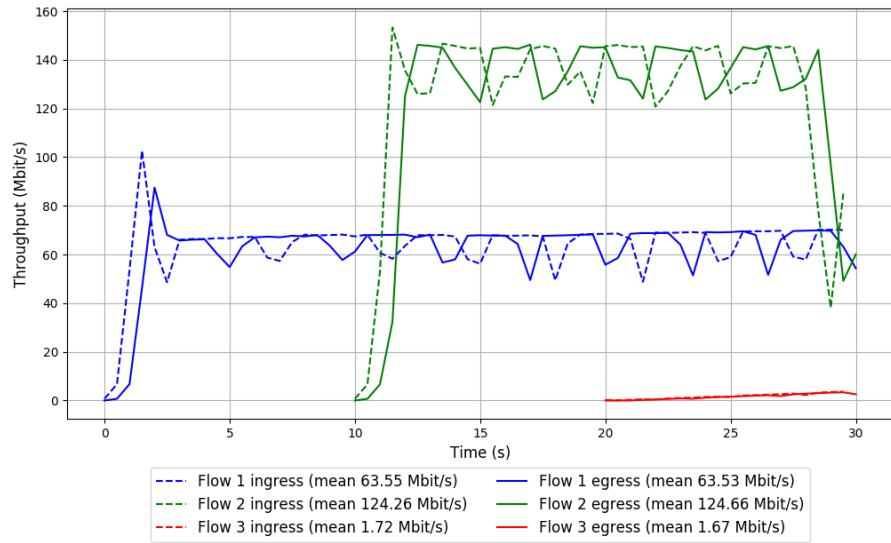


Run 1: Statistics of TCP Vegas

```
Start at: 2018-05-22 13:07:31
End at: 2018-05-22 13:08:01
Local clock offset: 3.417 ms
Remote clock offset: 0.745 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.62 Mbit/s
95th percentile per-packet one-way delay: 99.395 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 63.53 Mbit/s
95th percentile per-packet one-way delay: 96.768 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 124.66 Mbit/s
95th percentile per-packet one-way delay: 100.196 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 1.67 Mbit/s
95th percentile per-packet one-way delay: 96.533 ms
Loss rate: 4.36%
```

Run 1: Report of TCP Vegas — Data Link

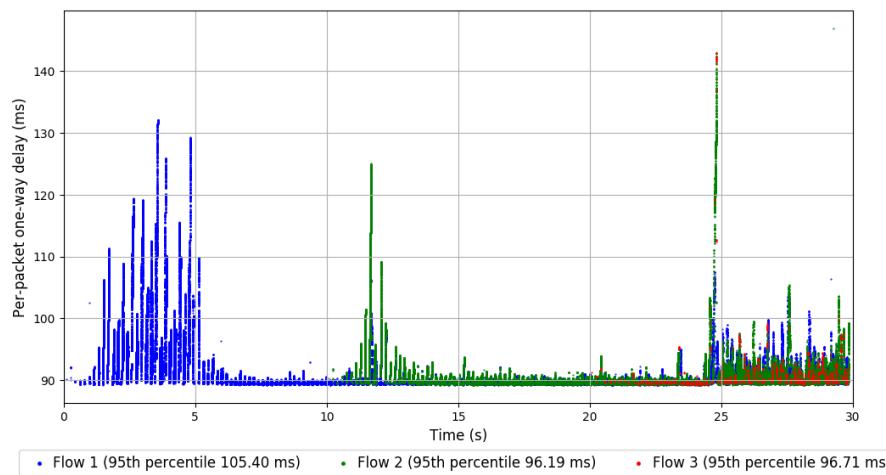
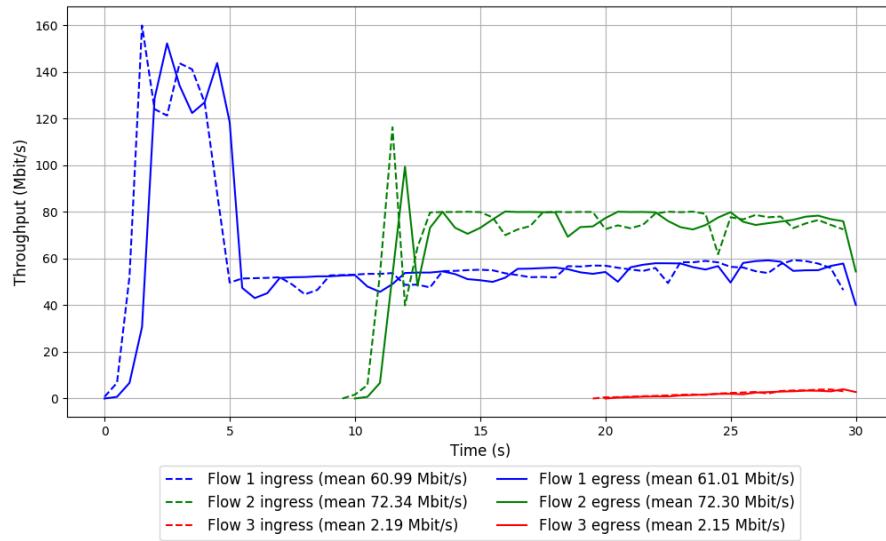


Run 2: Statistics of TCP Vegas

```
Start at: 2018-05-22 13:30:05
End at: 2018-05-22 13:30:35
Local clock offset: 3.342 ms
Remote clock offset: 0.876 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.81 Mbit/s
95th percentile per-packet one-way delay: 101.956 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 105.401 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 72.30 Mbit/s
95th percentile per-packet one-way delay: 96.187 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 96.713 ms
Loss rate: 3.43%
```

Run 2: Report of TCP Vegas — Data Link

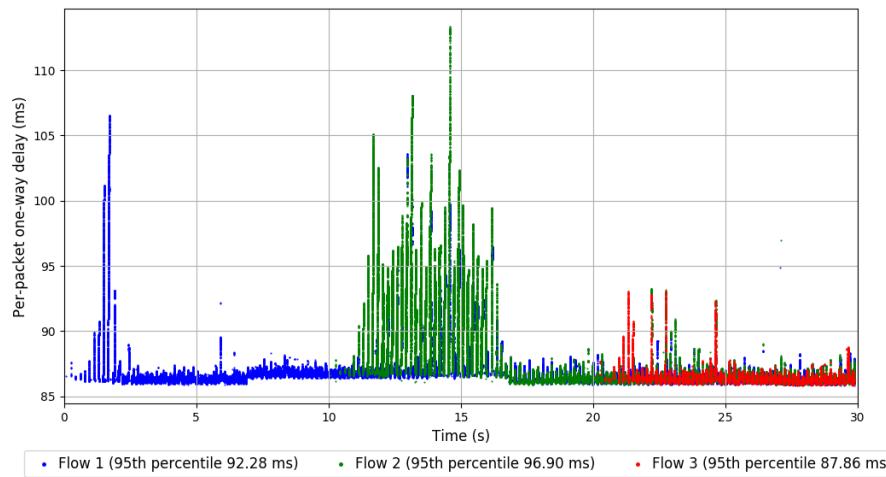
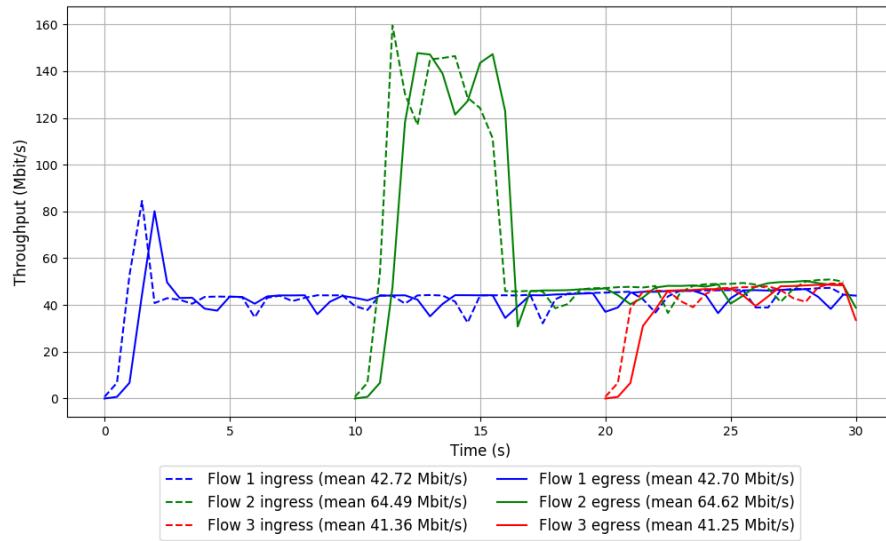


Run 3: Statistics of TCP Vegas

```
Start at: 2018-05-22 13:52:39
End at: 2018-05-22 13:53:09
Local clock offset: 0.04 ms
Remote clock offset: 0.993 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.18 Mbit/s
95th percentile per-packet one-way delay: 95.206 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 42.70 Mbit/s
95th percentile per-packet one-way delay: 92.275 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 64.62 Mbit/s
95th percentile per-packet one-way delay: 96.896 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 41.25 Mbit/s
95th percentile per-packet one-way delay: 87.864 ms
Loss rate: 2.00%
```

Run 3: Report of TCP Vegas — Data Link

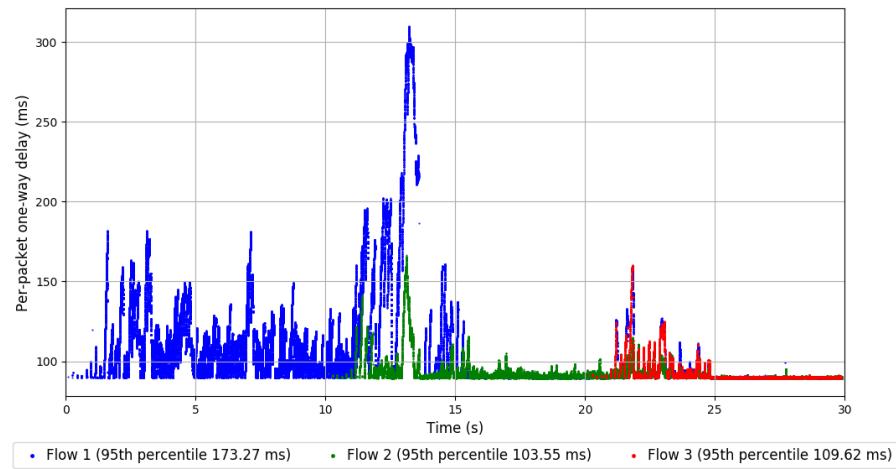
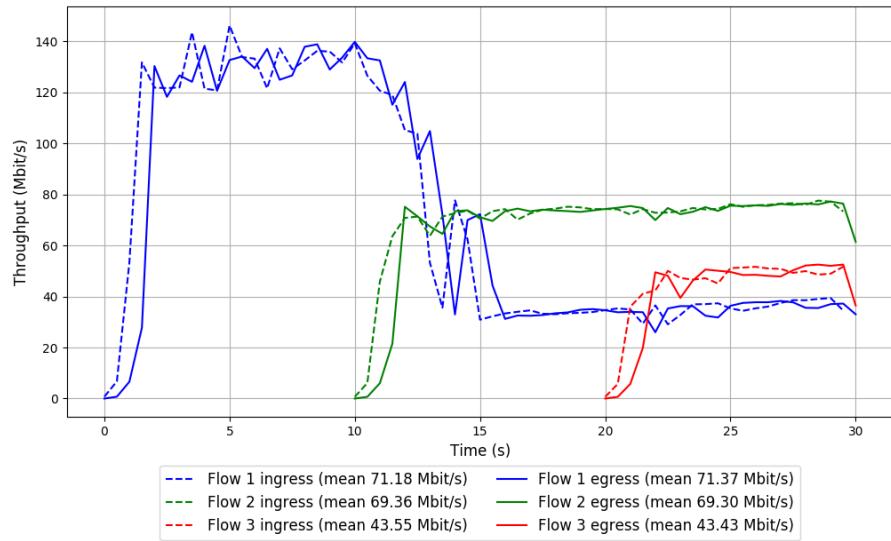


Run 4: Statistics of TCP Vegas

```
Start at: 2018-05-22 14:15:15
End at: 2018-05-22 14:15:45
Local clock offset: 3.588 ms
Remote clock offset: 1.083 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 131.59 Mbit/s
95th percentile per-packet one-way delay: 151.145 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 71.37 Mbit/s
95th percentile per-packet one-way delay: 173.266 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 69.30 Mbit/s
95th percentile per-packet one-way delay: 103.552 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 43.43 Mbit/s
95th percentile per-packet one-way delay: 109.620 ms
Loss rate: 2.05%
```

Run 4: Report of TCP Vegas — Data Link

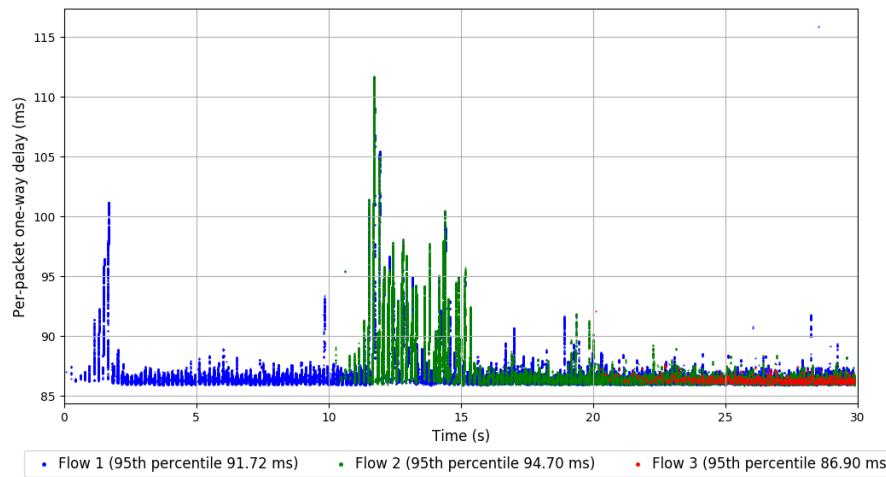
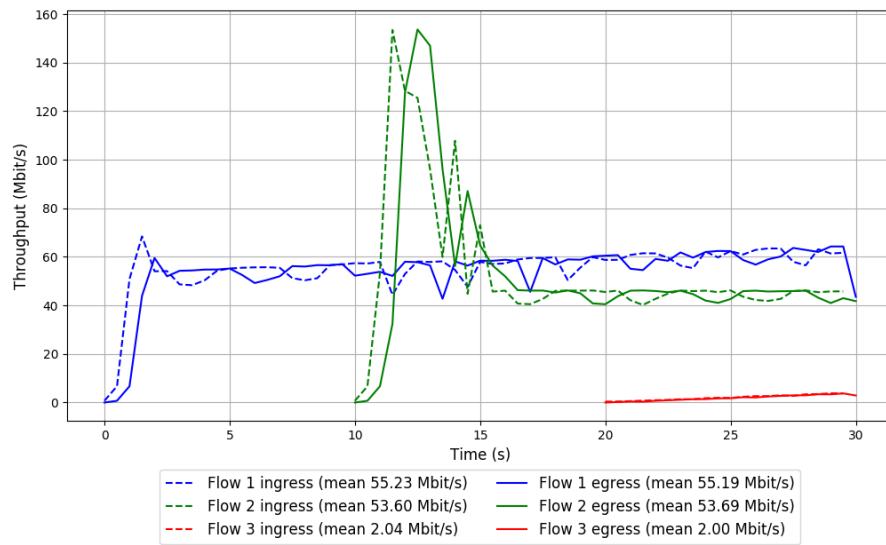


Run 5: Statistics of TCP Vegas

```
Start at: 2018-05-22 14:37:45
End at: 2018-05-22 14:38:15
Local clock offset: 0.115 ms
Remote clock offset: 1.276 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 93.670 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 55.19 Mbit/s
95th percentile per-packet one-way delay: 91.721 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 53.69 Mbit/s
95th percentile per-packet one-way delay: 94.705 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 86.902 ms
Loss rate: 3.73%
```

Run 5: Report of TCP Vegas — Data Link

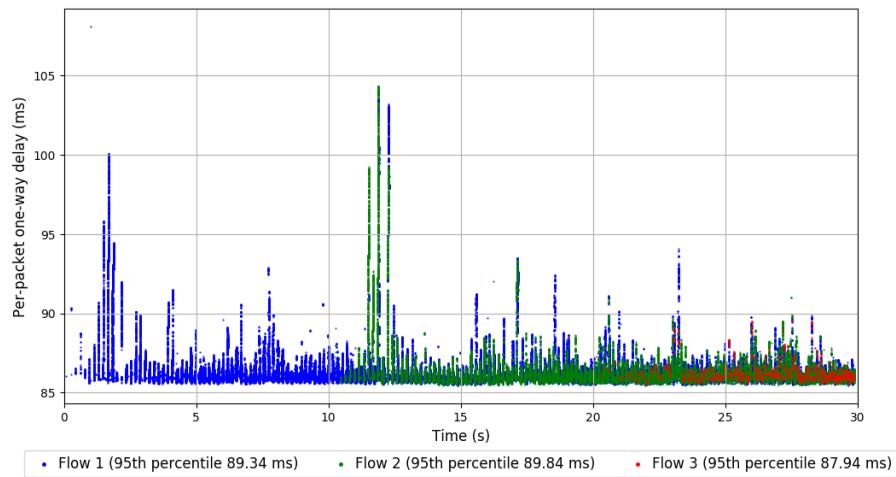
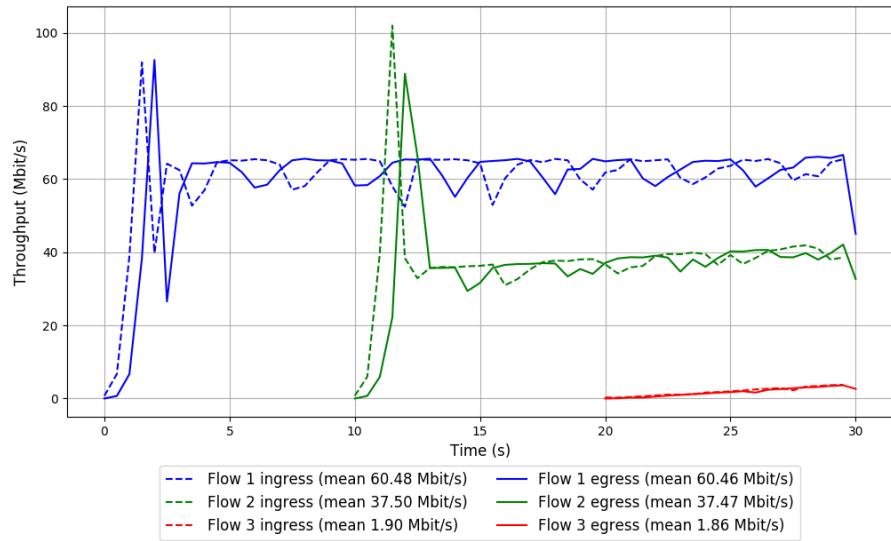


Run 6: Statistics of TCP Vegas

```
Start at: 2018-05-22 15:00:22
End at: 2018-05-22 15:00:52
Local clock offset: -0.299 ms
Remote clock offset: 1.299 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 89.384 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 60.46 Mbit/s
95th percentile per-packet one-way delay: 89.340 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 37.47 Mbit/s
95th percentile per-packet one-way delay: 89.839 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 87.937 ms
Loss rate: 4.12%
```

Run 6: Report of TCP Vegas — Data Link

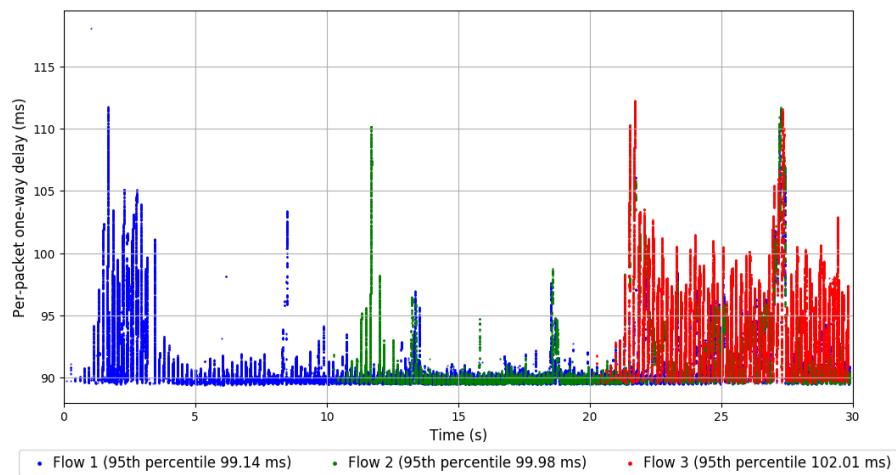
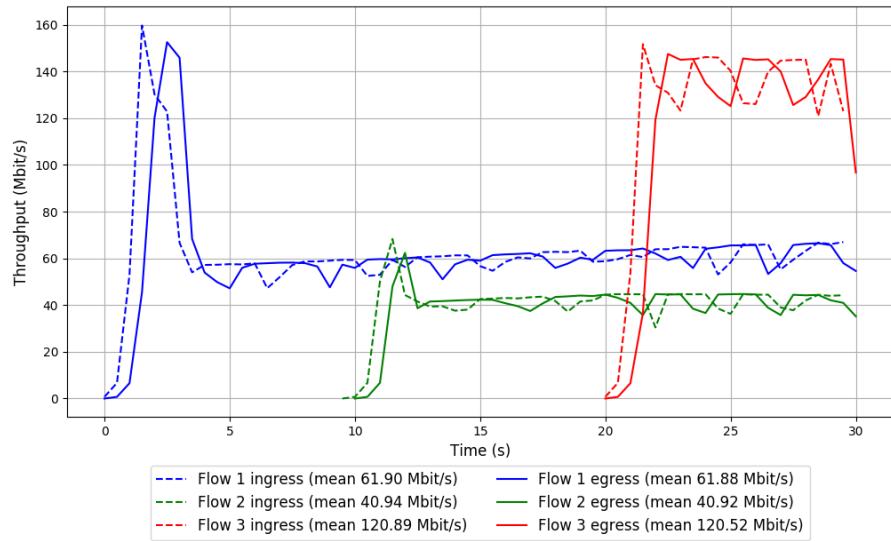


Run 7: Statistics of TCP Vegas

```
Start at: 2018-05-22 15:22:28
End at: 2018-05-22 15:22:58
Local clock offset: 3.655 ms
Remote clock offset: 1.403 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.43 Mbit/s
95th percentile per-packet one-way delay: 100.463 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 61.88 Mbit/s
95th percentile per-packet one-way delay: 99.138 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 40.92 Mbit/s
95th percentile per-packet one-way delay: 99.982 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 120.52 Mbit/s
95th percentile per-packet one-way delay: 102.013 ms
Loss rate: 2.03%
```

Run 7: Report of TCP Vegas — Data Link

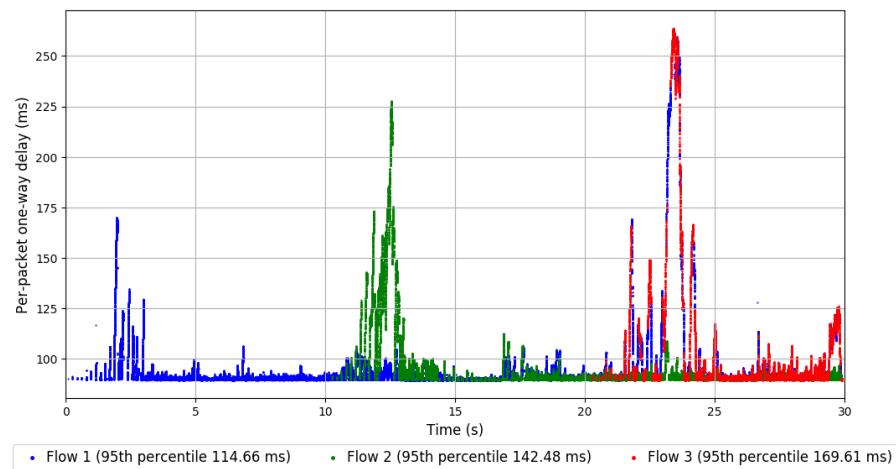
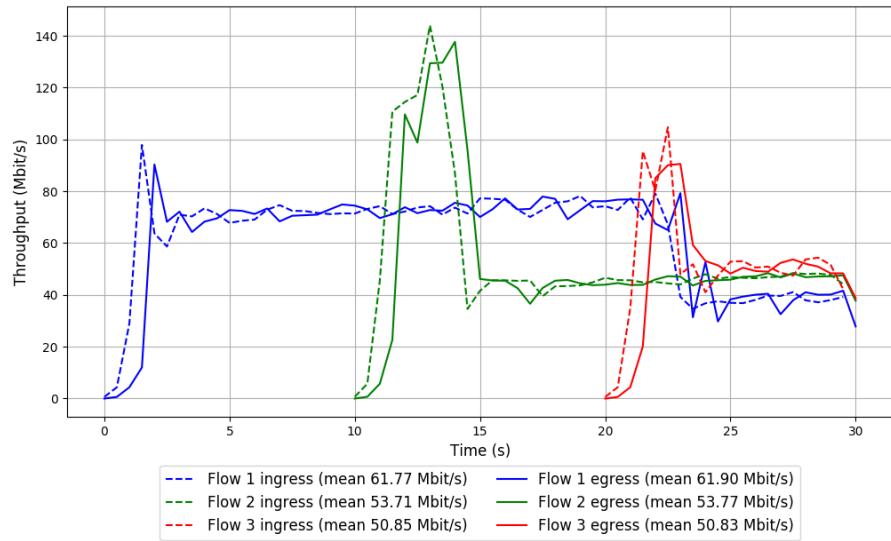


Run 8: Statistics of TCP Vegas

```
Start at: 2018-05-22 15:45:11
End at: 2018-05-22 15:45:41
Local clock offset: 3.675 ms
Remote clock offset: 0.817 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 114.30 Mbit/s
95th percentile per-packet one-way delay: 139.976 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 61.90 Mbit/s
95th percentile per-packet one-way delay: 114.656 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 142.483 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 50.83 Mbit/s
95th percentile per-packet one-way delay: 169.614 ms
Loss rate: 1.79%
```

Run 8: Report of TCP Vegas — Data Link

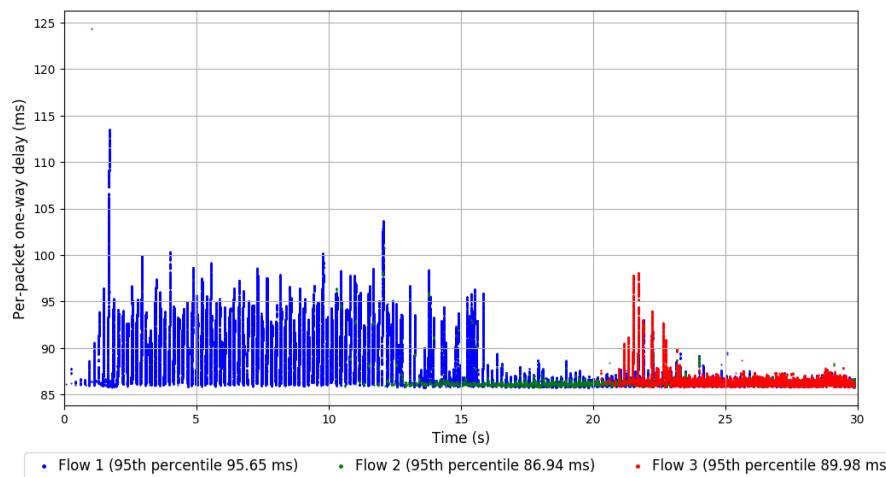
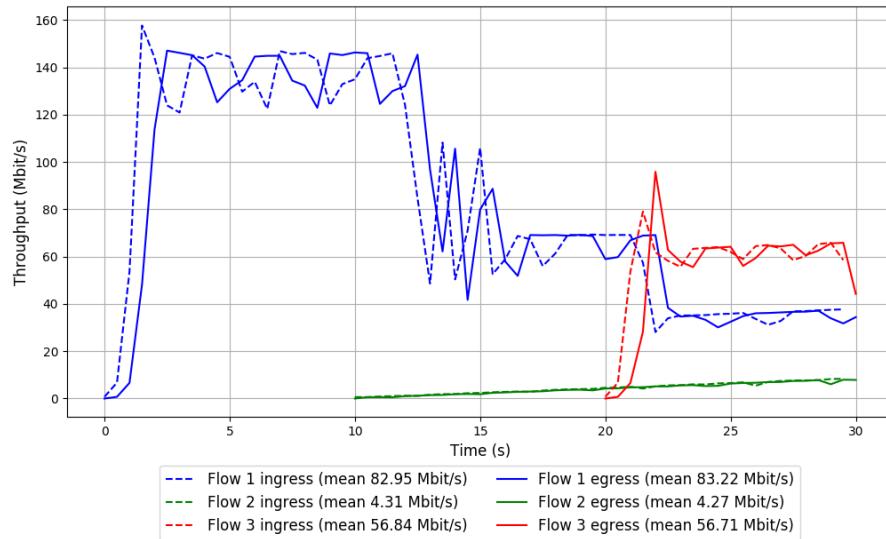


Run 9: Statistics of TCP Vegas

```
Start at: 2018-05-22 16:07:46
End at: 2018-05-22 16:08:16
Local clock offset: 0.072 ms
Remote clock offset: -0.311 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.63 Mbit/s
95th percentile per-packet one-way delay: 95.237 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 83.22 Mbit/s
95th percentile per-packet one-way delay: 95.653 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 86.944 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 56.71 Mbit/s
95th percentile per-packet one-way delay: 89.982 ms
Loss rate: 1.95%
```

Run 9: Report of TCP Vegas — Data Link

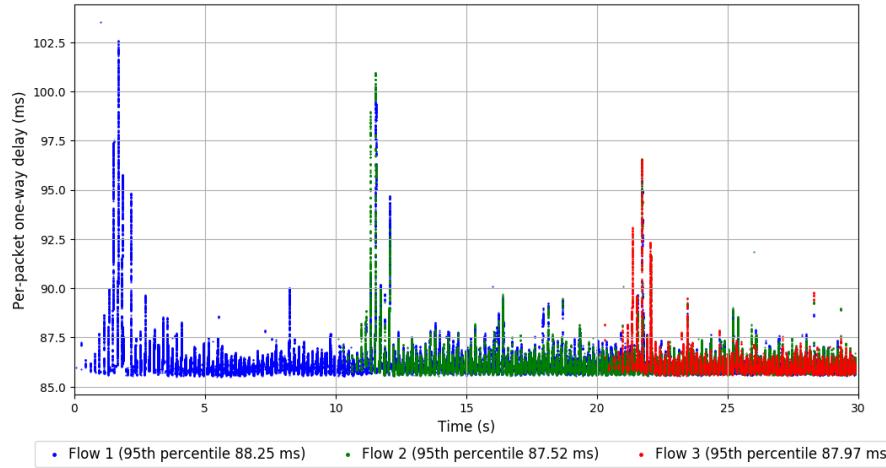
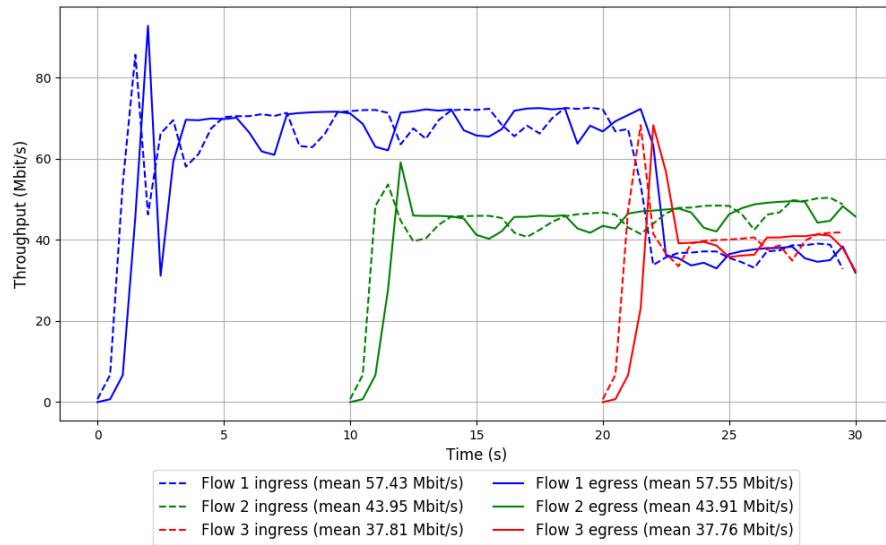


Run 10: Statistics of TCP Vegas

```
Start at: 2018-05-22 16:30:20
End at: 2018-05-22 16:30:50
Local clock offset: -0.18 ms
Remote clock offset: -0.587 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.05 Mbit/s
95th percentile per-packet one-way delay: 87.961 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 57.55 Mbit/s
95th percentile per-packet one-way delay: 88.246 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 43.91 Mbit/s
95th percentile per-packet one-way delay: 87.519 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 87.971 ms
Loss rate: 1.87%
```

Run 10: Report of TCP Vegas — Data Link

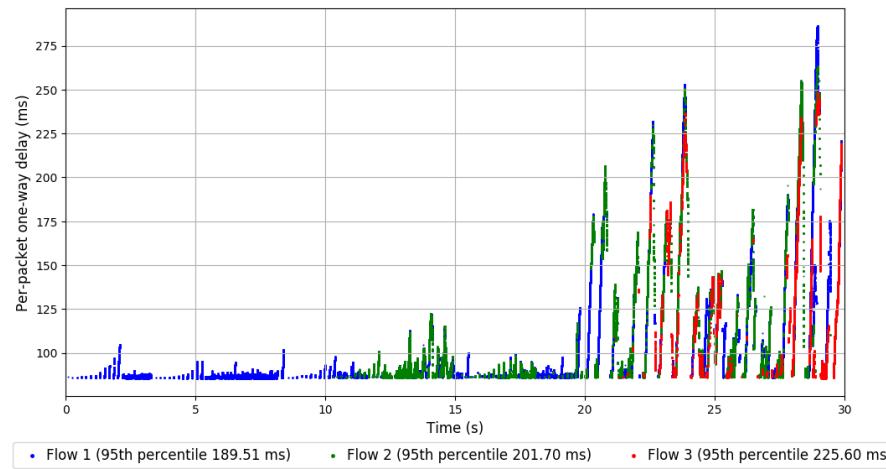
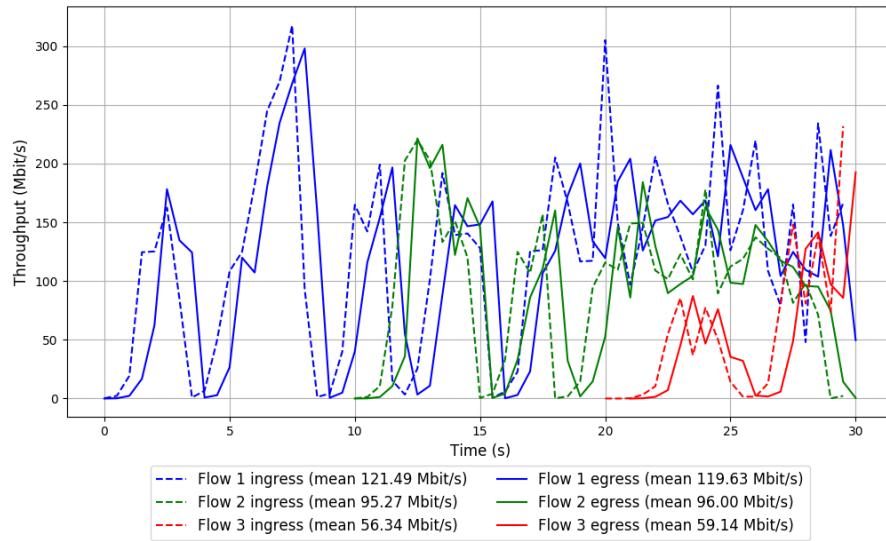


Run 1: Statistics of Verus

```
Start at: 2018-05-22 13:15:47
End at: 2018-05-22 13:16:17
Local clock offset: -0.29 ms
Remote clock offset: 0.831 ms

# Below is generated by plot.py at 2018-05-22 18:20:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.91 Mbit/s
95th percentile per-packet one-way delay: 201.872 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 119.63 Mbit/s
95th percentile per-packet one-way delay: 189.515 ms
Loss rate: 1.80%
-- Flow 2:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 201.699 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 59.14 Mbit/s
95th percentile per-packet one-way delay: 225.605 ms
Loss rate: 6.23%
```

Run 1: Report of Verus — Data Link

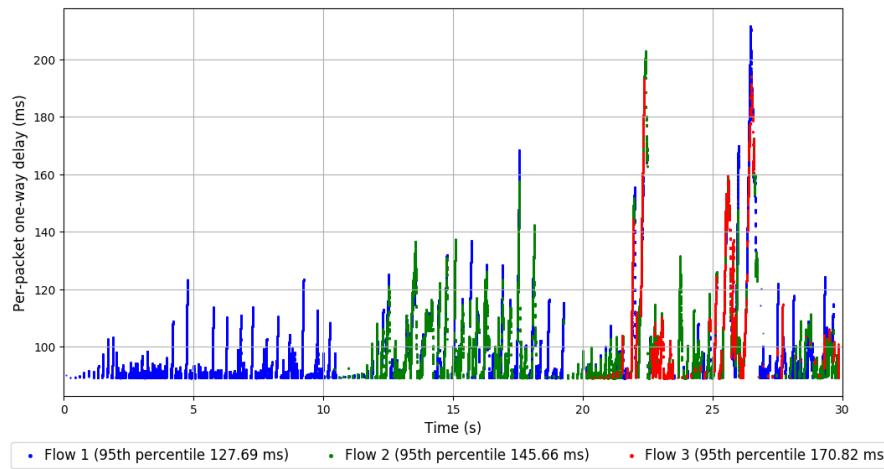
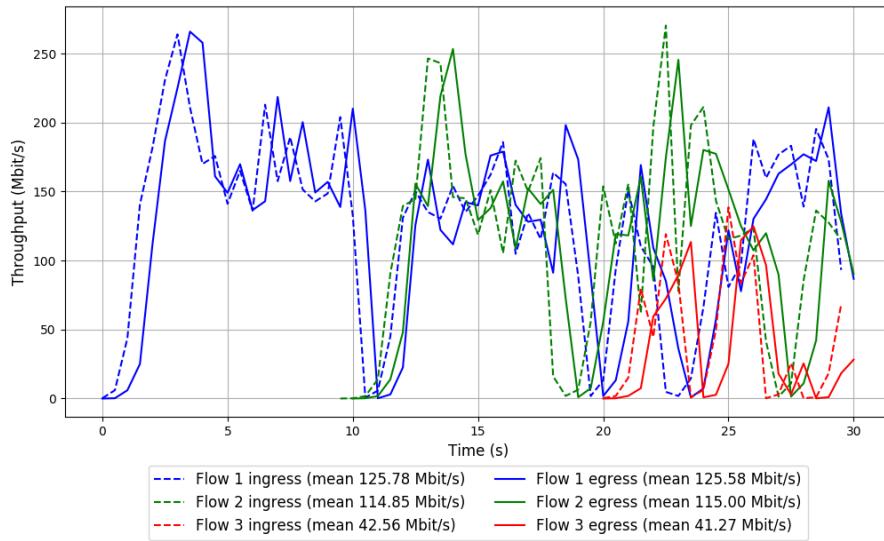


Run 2: Statistics of Verus

```
Start at: 2018-05-22 13:38:19
End at: 2018-05-22 13:38:49
Local clock offset: 3.285 ms
Remote clock offset: 0.925 ms

# Below is generated by plot.py at 2018-05-22 18:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 215.25 Mbit/s
95th percentile per-packet one-way delay: 143.025 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 125.58 Mbit/s
95th percentile per-packet one-way delay: 127.695 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 115.00 Mbit/s
95th percentile per-packet one-way delay: 145.658 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 41.27 Mbit/s
95th percentile per-packet one-way delay: 170.820 ms
Loss rate: 4.74%
```

Run 2: Report of Verus — Data Link

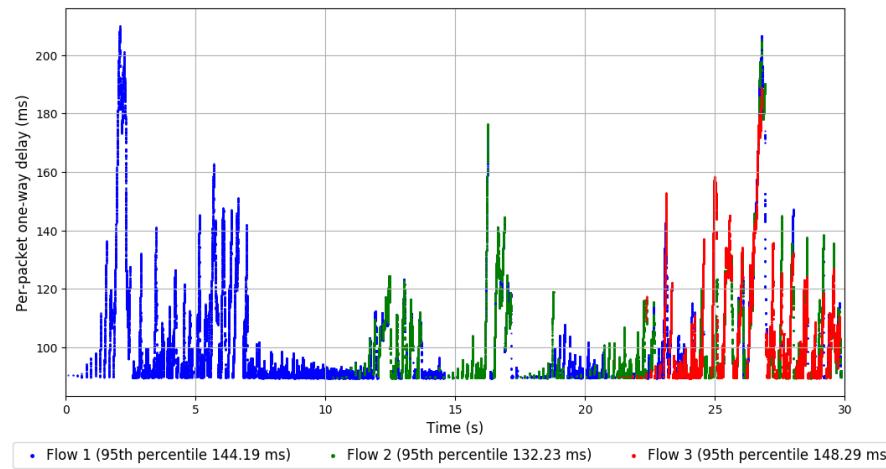
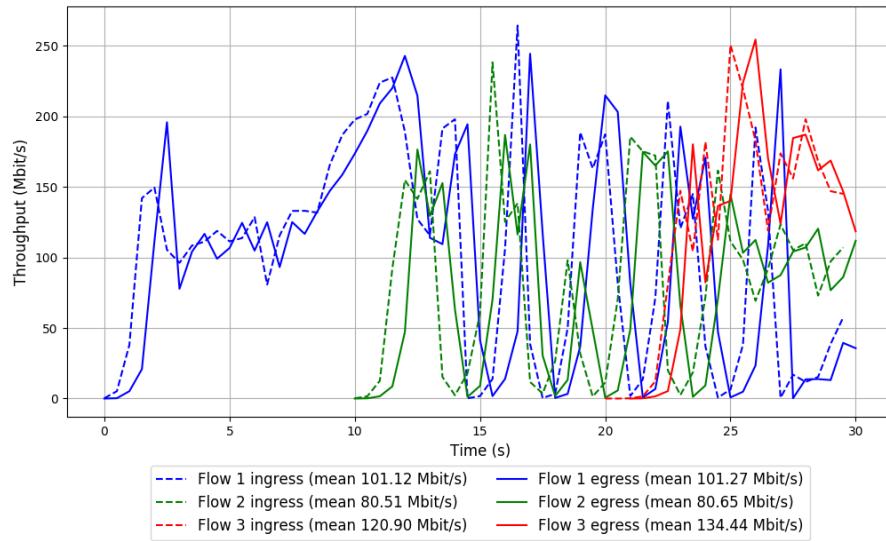


Run 3: Statistics of Verus

```
Start at: 2018-05-22 14:01:00
End at: 2018-05-22 14:01:30
Local clock offset: 3.584 ms
Remote clock offset: 1.073 ms

# Below is generated by plot.py at 2018-05-22 18:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 193.96 Mbit/s
95th percentile per-packet one-way delay: 142.844 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 101.27 Mbit/s
95th percentile per-packet one-way delay: 144.195 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 80.65 Mbit/s
95th percentile per-packet one-way delay: 132.232 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 134.44 Mbit/s
95th percentile per-packet one-way delay: 148.292 ms
Loss rate: 2.73%
```

Run 3: Report of Verus — Data Link

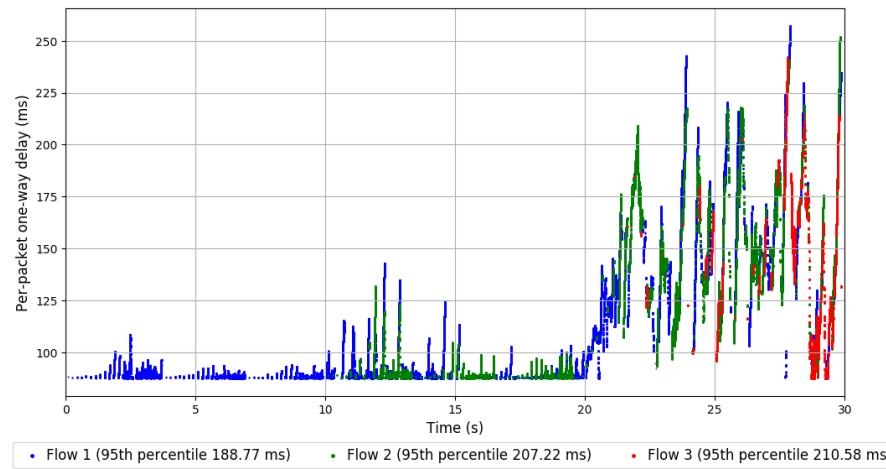
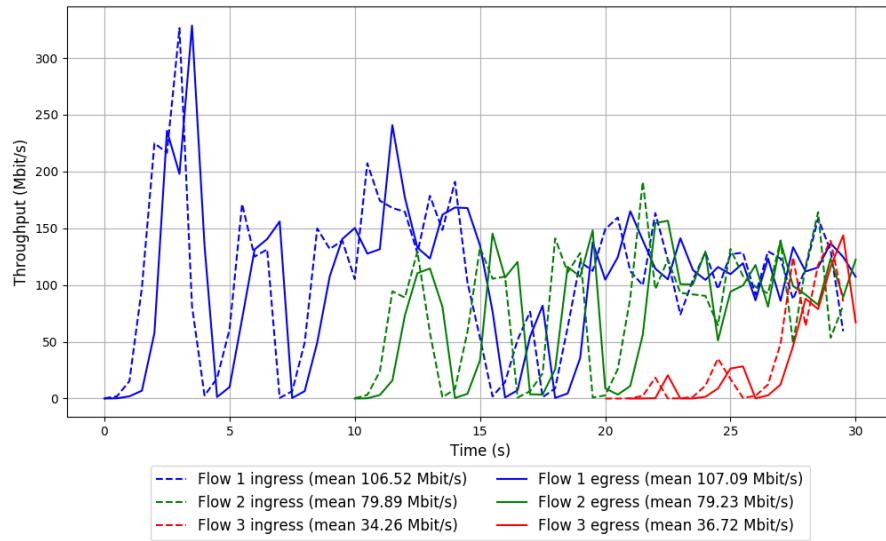


Run 4: Statistics of Verus

```
Start at: 2018-05-22 14:23:38
End at: 2018-05-22 14:24:08
Local clock offset: 1.716 ms
Remote clock offset: 1.187 ms

# Below is generated by plot.py at 2018-05-22 18:21:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 170.30 Mbit/s
95th percentile per-packet one-way delay: 200.310 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 107.09 Mbit/s
95th percentile per-packet one-way delay: 188.773 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 79.23 Mbit/s
95th percentile per-packet one-way delay: 207.220 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.72 Mbit/s
95th percentile per-packet one-way delay: 210.583 ms
Loss rate: 5.81%
```

Run 4: Report of Verus — Data Link

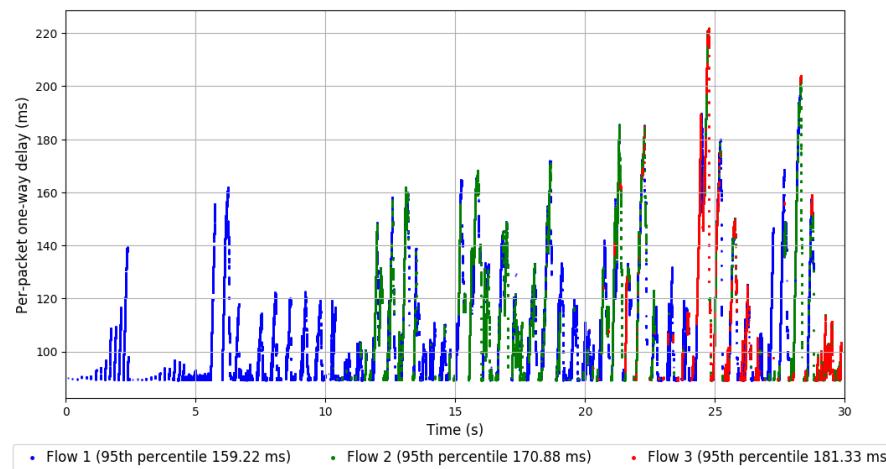
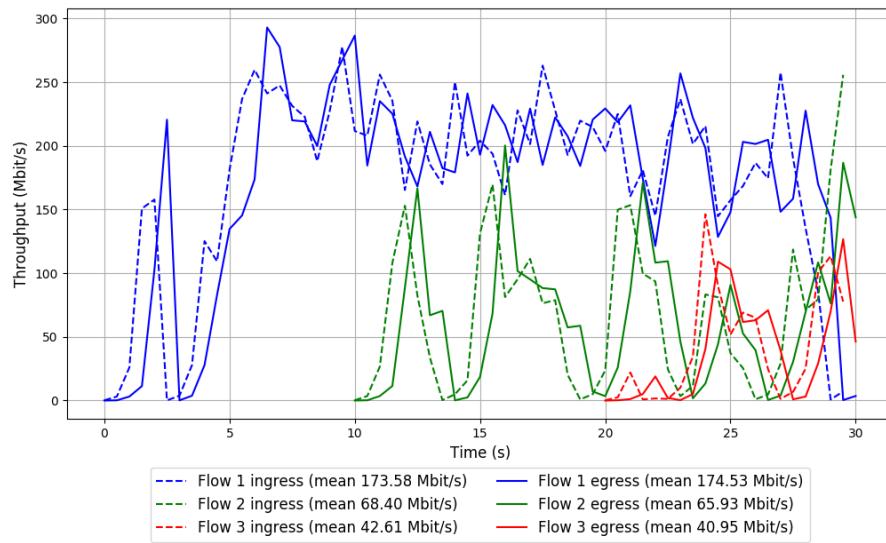


Run 5: Statistics of Verus

```
Start at: 2018-05-22 14:46:01
End at: 2018-05-22 14:46:31
Local clock offset: 3.374 ms
Remote clock offset: 1.253 ms

# Below is generated by plot.py at 2018-05-22 18:22:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 231.63 Mbit/s
95th percentile per-packet one-way delay: 163.807 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 174.53 Mbit/s
95th percentile per-packet one-way delay: 159.218 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 65.93 Mbit/s
95th percentile per-packet one-way delay: 170.878 ms
Loss rate: 4.45%
-- Flow 3:
Average throughput: 40.95 Mbit/s
95th percentile per-packet one-way delay: 181.329 ms
Loss rate: 5.78%
```

Run 5: Report of Verus — Data Link

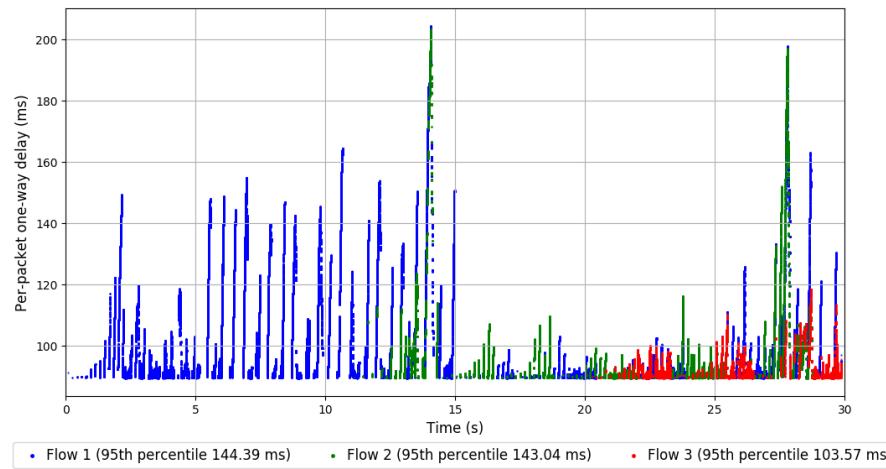
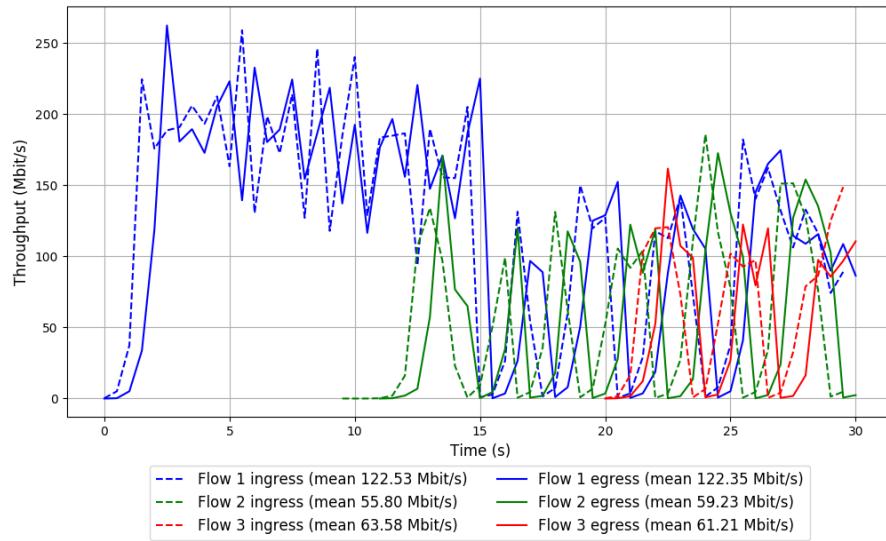


Run 6: Statistics of Verus

```
Start at: 2018-05-22 15:08:18
End at: 2018-05-22 15:08:48
Local clock offset: 3.438 ms
Remote clock offset: 1.363 ms

# Below is generated by plot.py at 2018-05-22 18:22:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 179.47 Mbit/s
95th percentile per-packet one-way delay: 142.768 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 122.35 Mbit/s
95th percentile per-packet one-way delay: 144.387 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 59.23 Mbit/s
95th percentile per-packet one-way delay: 143.037 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 61.21 Mbit/s
95th percentile per-packet one-way delay: 103.567 ms
Loss rate: 5.32%
```

Run 6: Report of Verus — Data Link

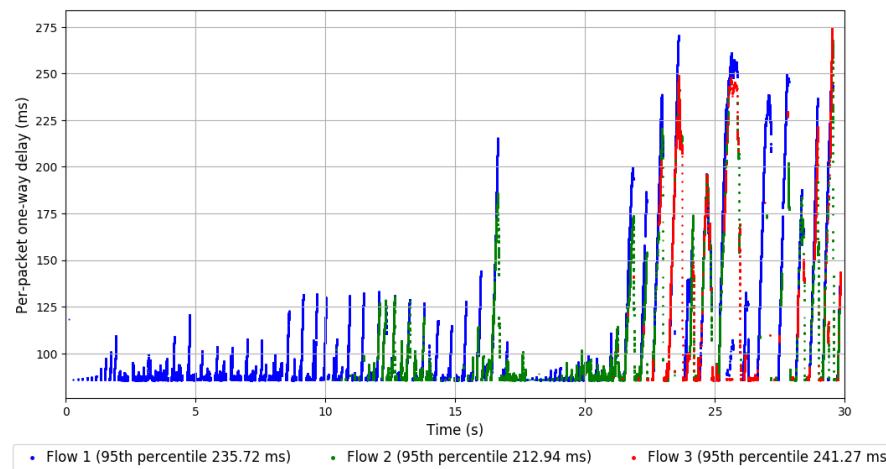
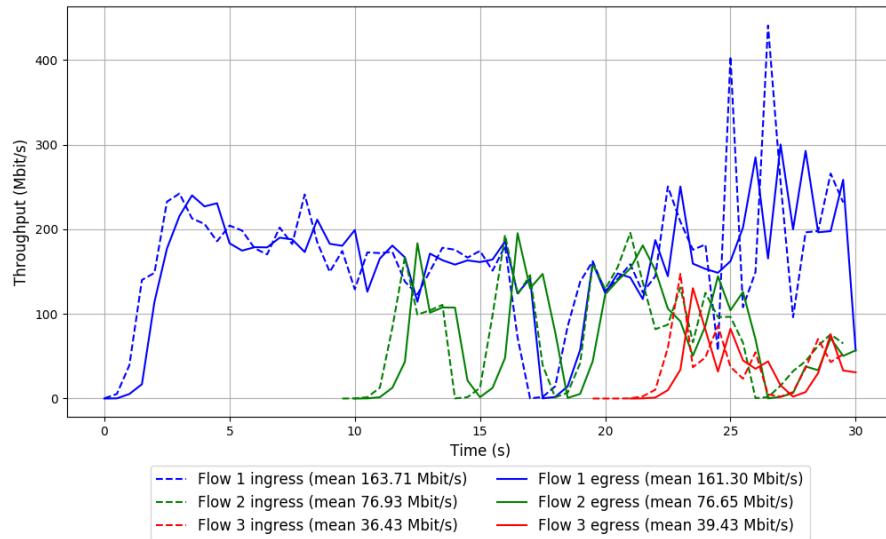


Run 7: Statistics of Verus

```
Start at: 2018-05-22 15:30:51
End at: 2018-05-22 15:31:21
Local clock offset: -0.175 ms
Remote clock offset: 1.447 ms

# Below is generated by plot.py at 2018-05-22 18:22:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 223.91 Mbit/s
95th percentile per-packet one-way delay: 231.057 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 161.30 Mbit/s
95th percentile per-packet one-way delay: 235.719 ms
Loss rate: 1.96%
-- Flow 2:
Average throughput: 76.65 Mbit/s
95th percentile per-packet one-way delay: 212.940 ms
Loss rate: 1.27%
-- Flow 3:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 241.273 ms
Loss rate: 4.58%
```

Run 7: Report of Verus — Data Link

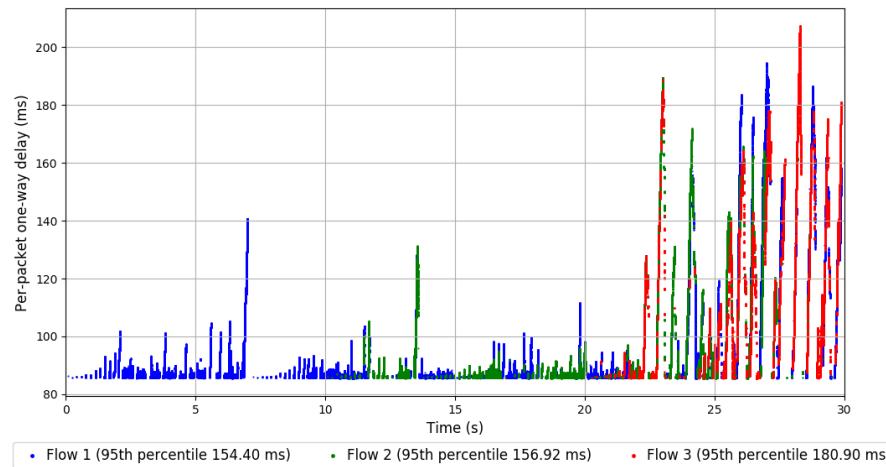
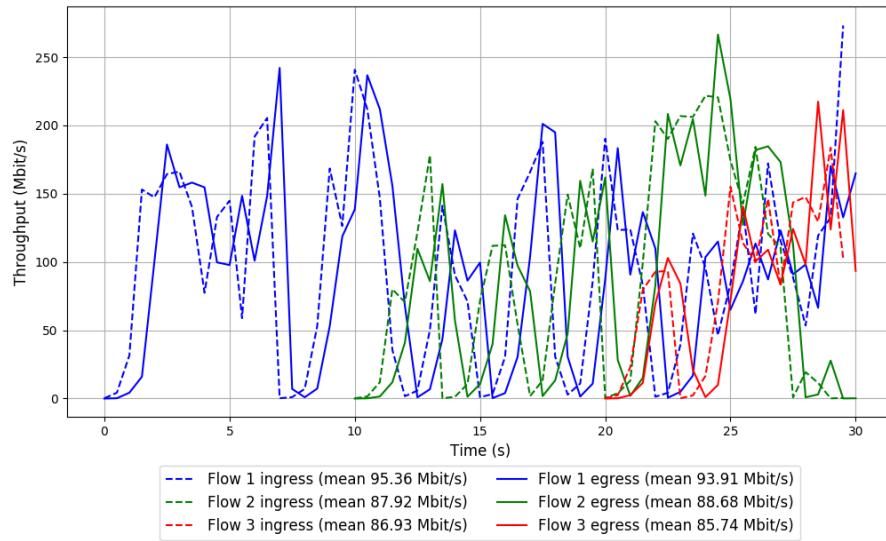


Run 8: Statistics of Verus

```
Start at: 2018-05-22 15:53:32
End at: 2018-05-22 15:54:02
Local clock offset: -0.263 ms
Remote clock offset: 0.145 ms

# Below is generated by plot.py at 2018-05-22 18:23:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 180.51 Mbit/s
95th percentile per-packet one-way delay: 163.950 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 154.403 ms
Loss rate: 1.90%
-- Flow 2:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 156.916 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 180.896 ms
Loss rate: 0.54%
```

Run 8: Report of Verus — Data Link

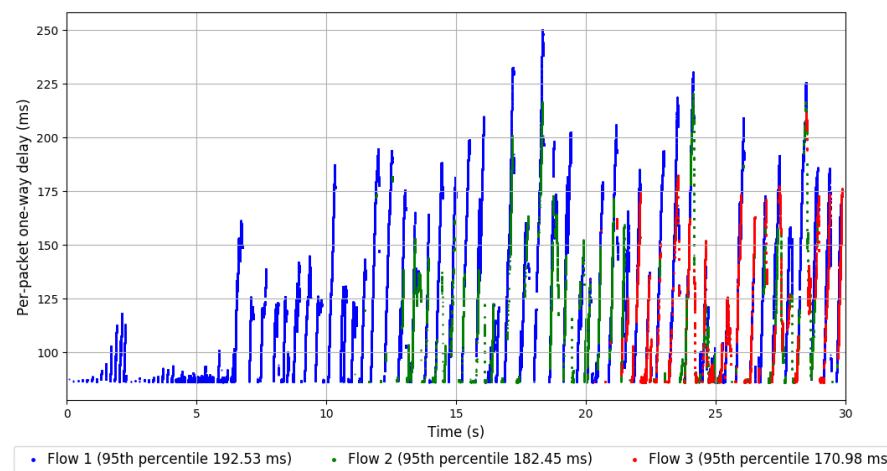
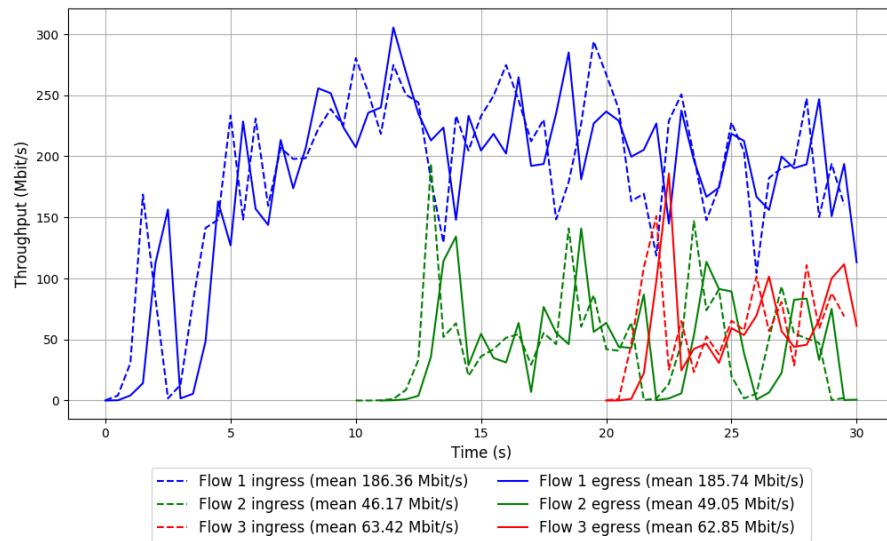


Run 9: Statistics of Verus

```
Start at: 2018-05-22 16:16:01
End at: 2018-05-22 16:16:31
Local clock offset: 0.138 ms
Remote clock offset: -0.499 ms

# Below is generated by plot.py at 2018-05-22 18:24:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 236.84 Mbit/s
95th percentile per-packet one-way delay: 190.842 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 185.74 Mbit/s
95th percentile per-packet one-way delay: 192.535 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 49.05 Mbit/s
95th percentile per-packet one-way delay: 182.452 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 62.85 Mbit/s
95th percentile per-packet one-way delay: 170.977 ms
Loss rate: 0.64%
```

Run 9: Report of Verus — Data Link

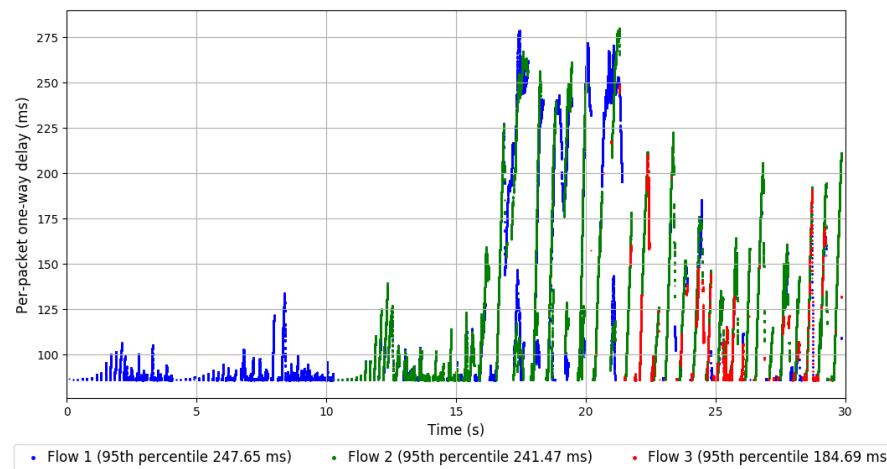
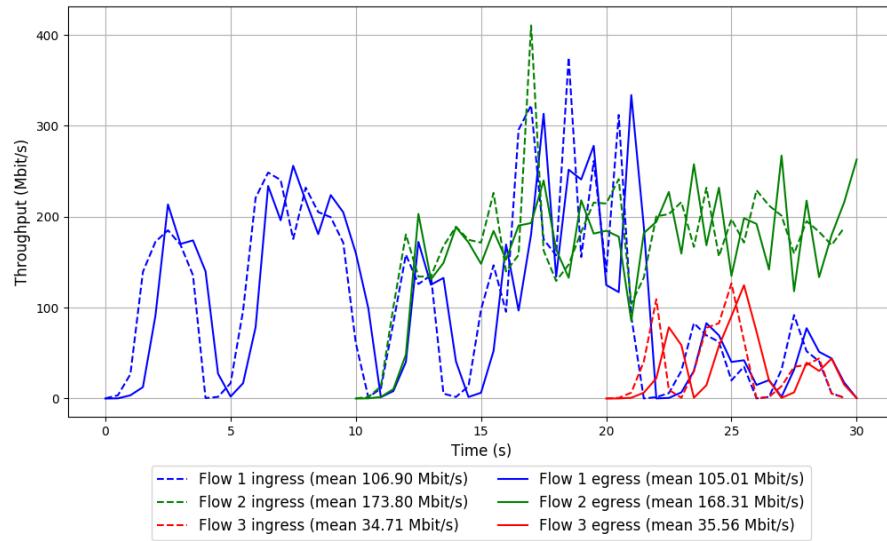


Run 10: Statistics of Verus

```
Start at: 2018-05-22 16:38:33
End at: 2018-05-22 16:39:03
Local clock offset: 0.069 ms
Remote clock offset: -0.735 ms

# Below is generated by plot.py at 2018-05-22 18:25:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 228.17 Mbit/s
95th percentile per-packet one-way delay: 244.647 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 105.01 Mbit/s
95th percentile per-packet one-way delay: 247.653 ms
Loss rate: 2.34%
-- Flow 2:
Average throughput: 168.31 Mbit/s
95th percentile per-packet one-way delay: 241.470 ms
Loss rate: 2.54%
-- Flow 3:
Average throughput: 35.56 Mbit/s
95th percentile per-packet one-way delay: 184.693 ms
Loss rate: 0.09%
```

Run 10: Report of Verus — Data Link

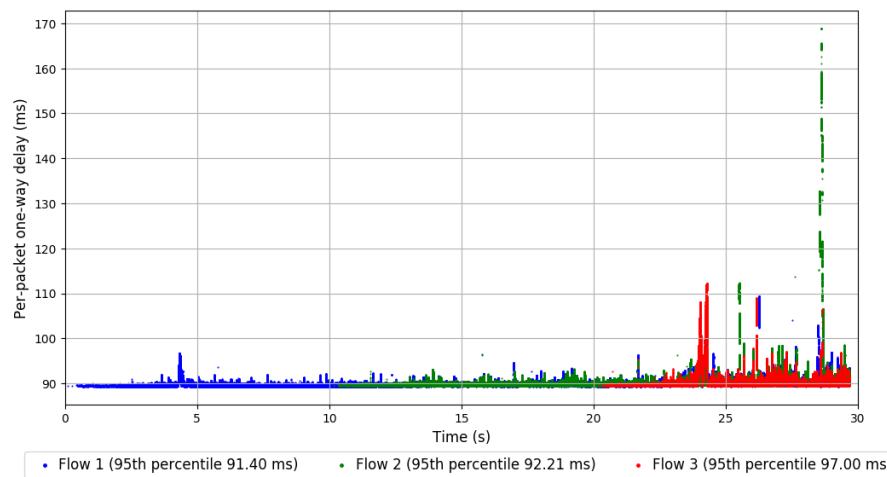
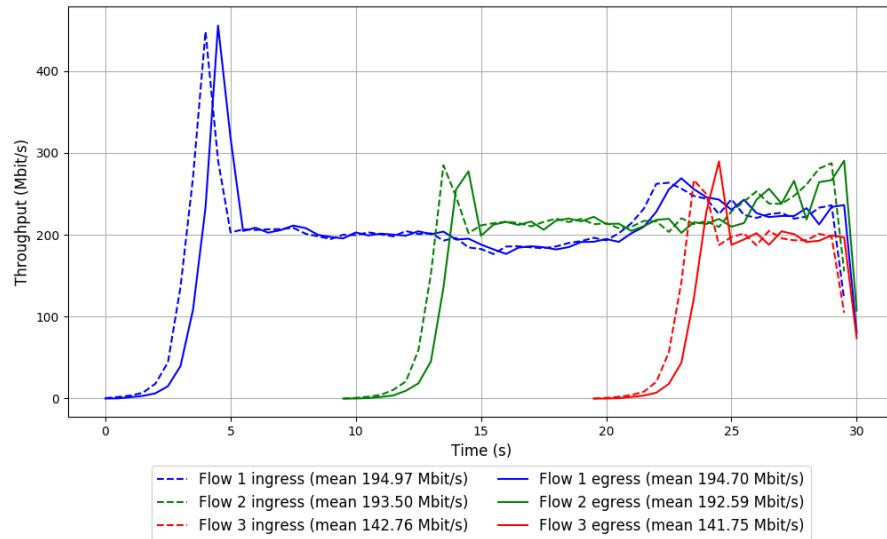


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-05-22 13:26:56
End at: 2018-05-22 13:27:26
Local clock offset: 3.404 ms
Remote clock offset: 0.824 ms

# Below is generated by plot.py at 2018-05-22 18:28:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 369.26 Mbit/s
95th percentile per-packet one-way delay: 92.188 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 194.70 Mbit/s
95th percentile per-packet one-way delay: 91.400 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 192.59 Mbit/s
95th percentile per-packet one-way delay: 92.207 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 141.75 Mbit/s
95th percentile per-packet one-way delay: 96.995 ms
Loss rate: 2.45%
```

Run 1: Report of PCC-Vivace — Data Link

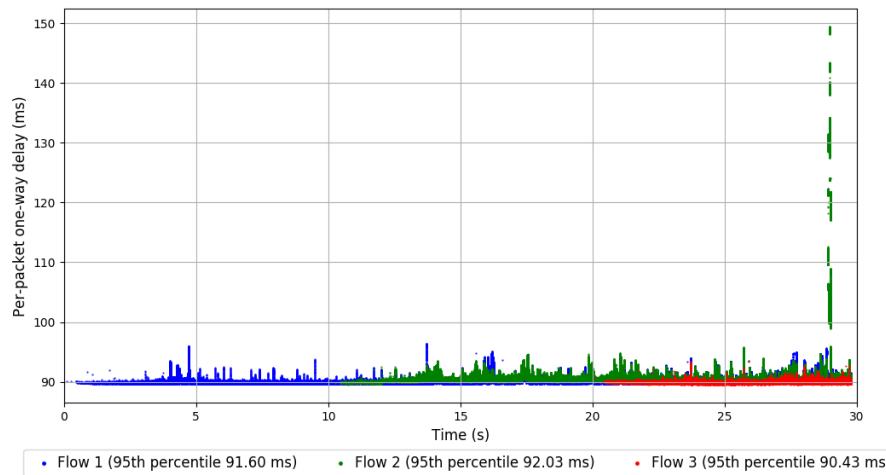
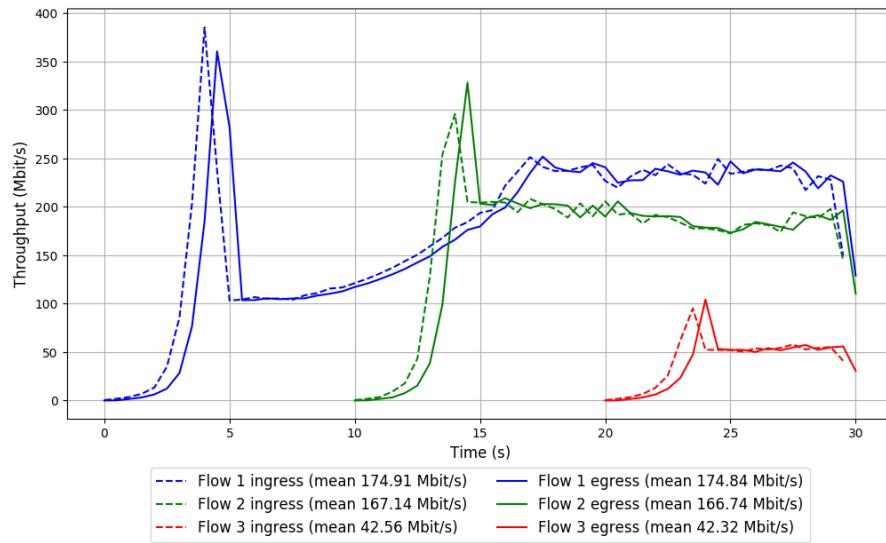


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-05-22 13:49:34
End at: 2018-05-22 13:50:04
Local clock offset: 3.729 ms
Remote clock offset: 1.005 ms

# Below is generated by plot.py at 2018-05-22 18:28:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.20 Mbit/s
95th percentile per-packet one-way delay: 91.746 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 174.84 Mbit/s
95th percentile per-packet one-way delay: 91.602 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 166.74 Mbit/s
95th percentile per-packet one-way delay: 92.030 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 42.32 Mbit/s
95th percentile per-packet one-way delay: 90.433 ms
Loss rate: 2.34%
```

Run 2: Report of PCC-Vivace — Data Link

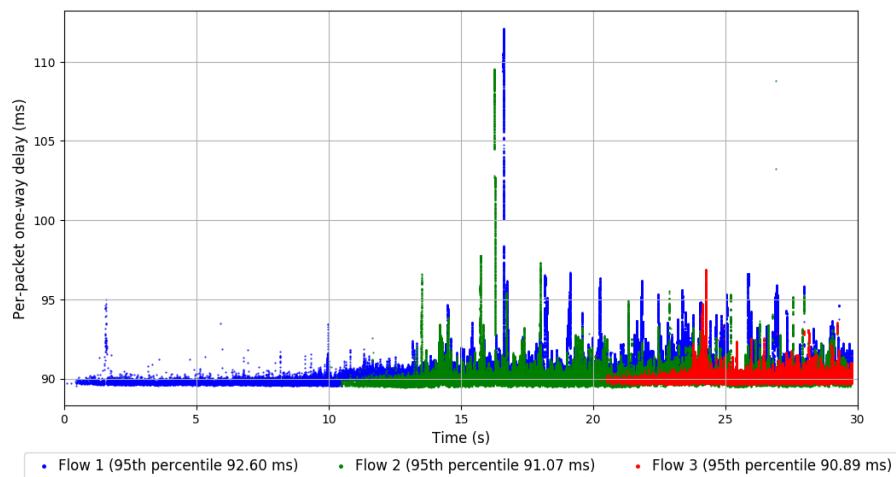
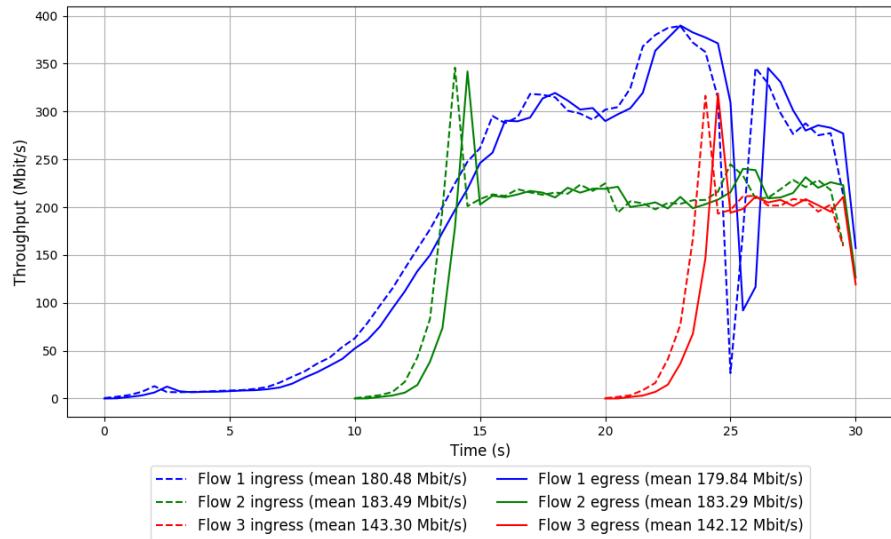


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-05-22 14:12:06
End at: 2018-05-22 14:12:36
Local clock offset: 3.605 ms
Remote clock offset: 1.102 ms

# Below is generated by plot.py at 2018-05-22 18:28:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 347.58 Mbit/s
95th percentile per-packet one-way delay: 91.864 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 179.84 Mbit/s
95th percentile per-packet one-way delay: 92.603 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 183.29 Mbit/s
95th percentile per-packet one-way delay: 91.071 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 142.12 Mbit/s
95th percentile per-packet one-way delay: 90.892 ms
Loss rate: 2.58%
```

Run 3: Report of PCC-Vivace — Data Link

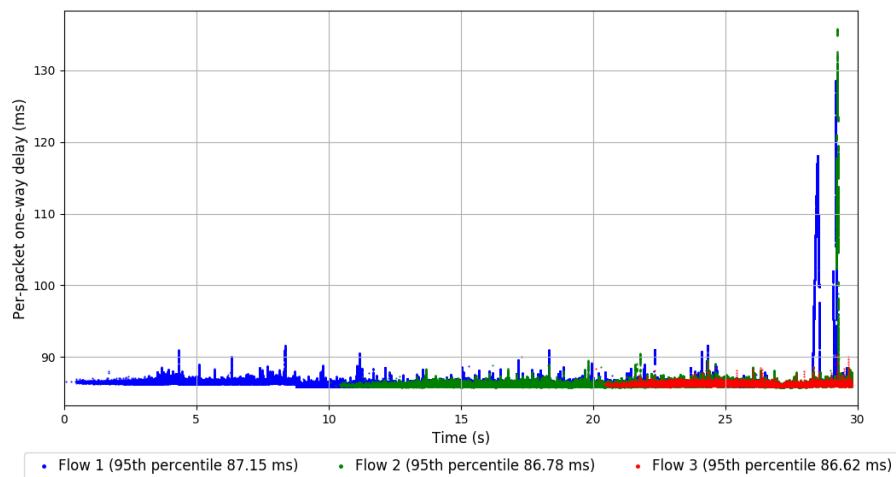
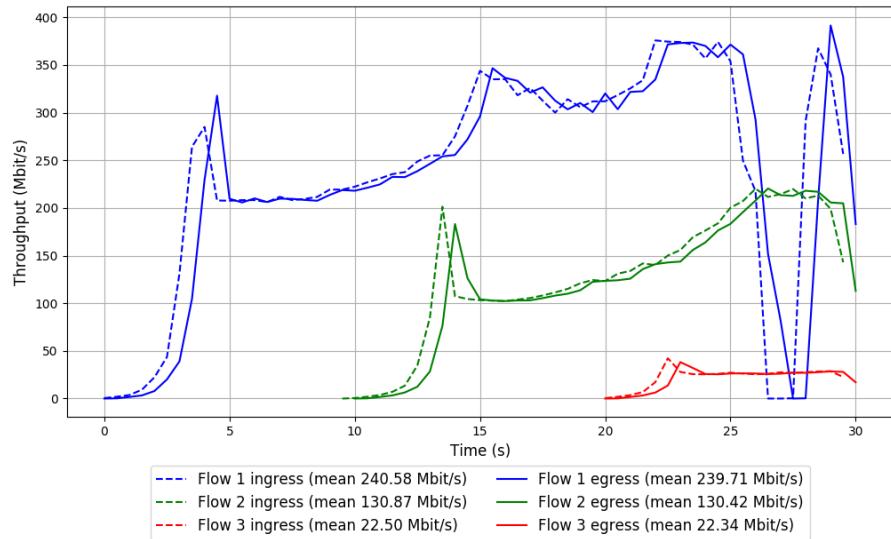


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-05-22 14:34:37
End at: 2018-05-22 14:35:07
Local clock offset: -0.071 ms
Remote clock offset: 1.2 ms

# Below is generated by plot.py at 2018-05-22 18:28:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.50 Mbit/s
95th percentile per-packet one-way delay: 86.989 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 239.71 Mbit/s
95th percentile per-packet one-way delay: 87.147 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 130.42 Mbit/s
95th percentile per-packet one-way delay: 86.785 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 22.34 Mbit/s
95th percentile per-packet one-way delay: 86.621 ms
Loss rate: 2.47%
```

Run 4: Report of PCC-Vivace — Data Link

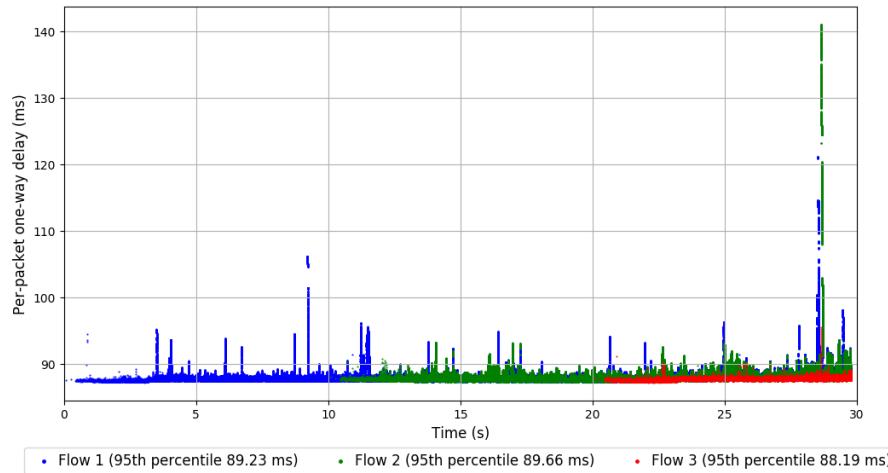
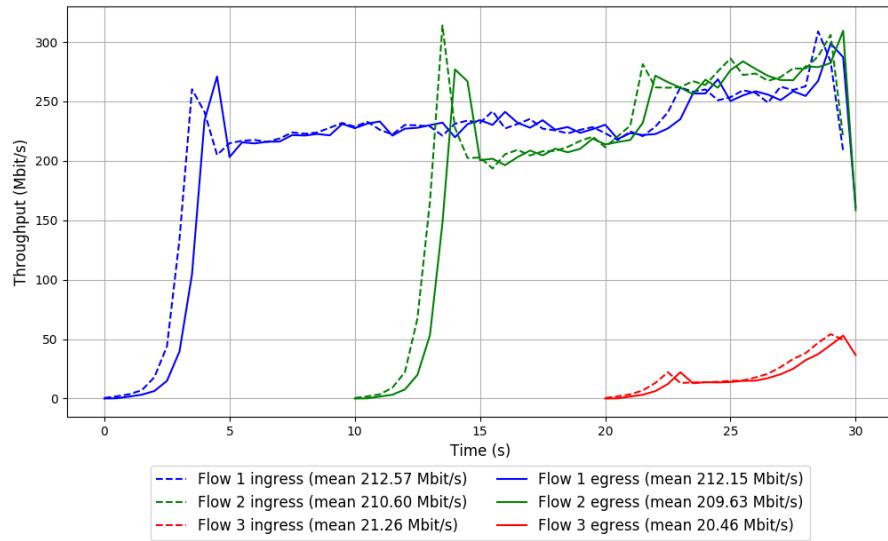


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-05-22 14:57:13
End at: 2018-05-22 14:57:43
Local clock offset: 1.482 ms
Remote clock offset: 1.324 ms

# Below is generated by plot.py at 2018-05-22 18:29:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 357.77 Mbit/s
95th percentile per-packet one-way delay: 89.410 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 212.15 Mbit/s
95th percentile per-packet one-way delay: 89.233 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 209.63 Mbit/s
95th percentile per-packet one-way delay: 89.660 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 20.46 Mbit/s
95th percentile per-packet one-way delay: 88.186 ms
Loss rate: 5.48%
```

Run 5: Report of PCC-Vivace — Data Link

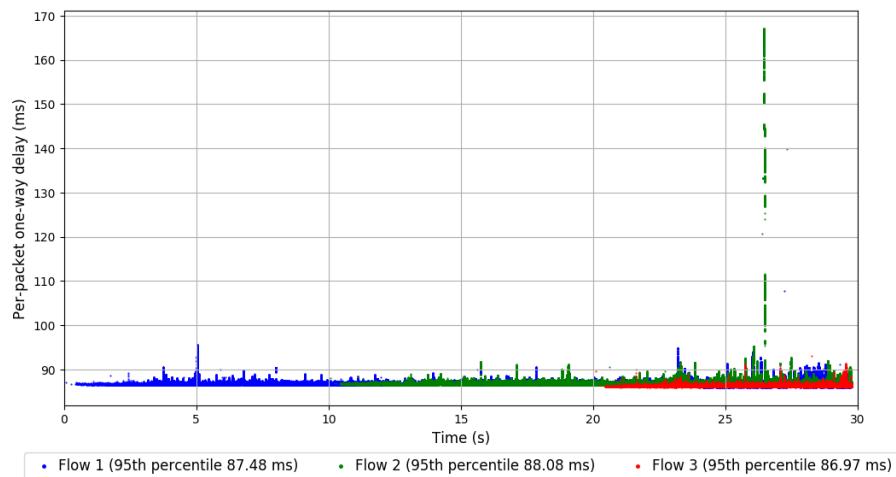
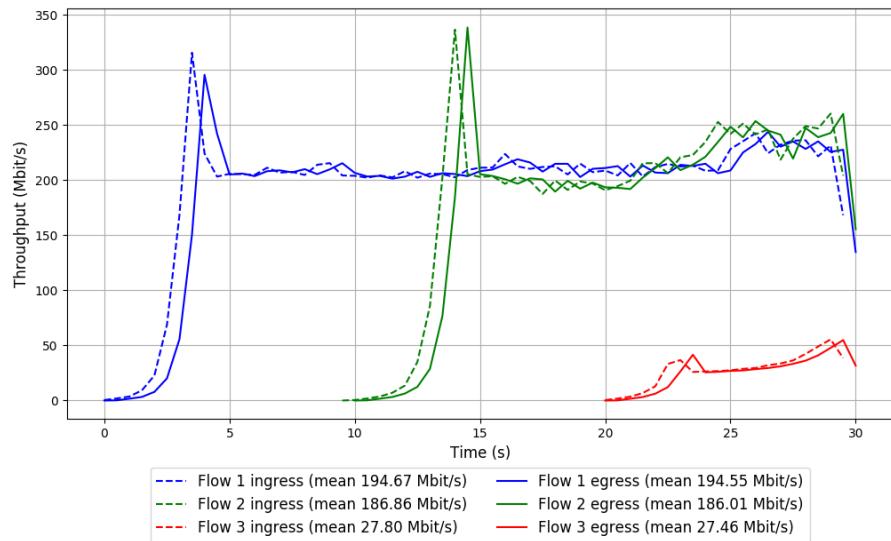


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-05-22 15:19:22
End at: 2018-05-22 15:19:52
Local clock offset: 0.193 ms
Remote clock offset: 1.428 ms

# Below is generated by plot.py at 2018-05-22 18:29:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.85 Mbit/s
95th percentile per-packet one-way delay: 87.710 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 194.55 Mbit/s
95th percentile per-packet one-way delay: 87.482 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 186.01 Mbit/s
95th percentile per-packet one-way delay: 88.081 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 86.973 ms
Loss rate: 3.02%
```

Run 6: Report of PCC-Vivace — Data Link

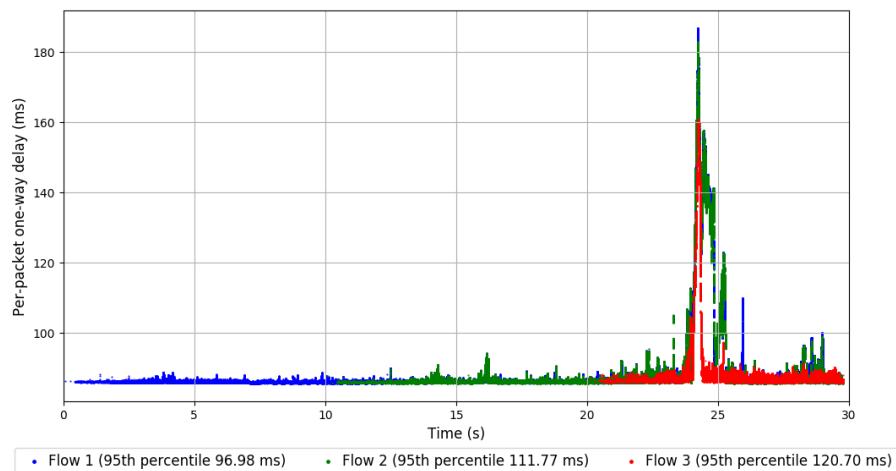
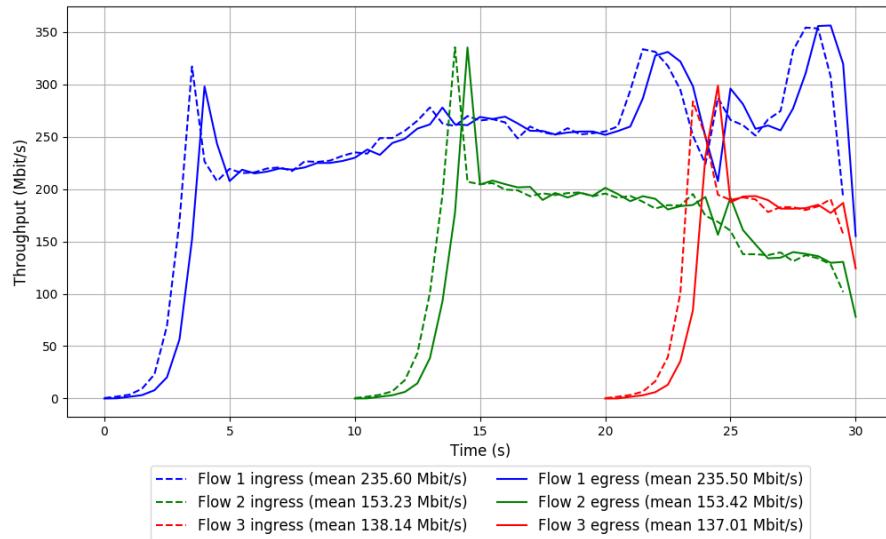


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-05-22 15:41:59
End at: 2018-05-22 15:42:29
Local clock offset: -0.047 ms
Remote clock offset: 1.305 ms

# Below is generated by plot.py at 2018-05-22 18:30:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 381.85 Mbit/s
95th percentile per-packet one-way delay: 102.730 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 235.50 Mbit/s
95th percentile per-packet one-way delay: 96.984 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 153.42 Mbit/s
95th percentile per-packet one-way delay: 111.772 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 137.01 Mbit/s
95th percentile per-packet one-way delay: 120.703 ms
Loss rate: 2.56%
```

Run 7: Report of PCC-Vivace — Data Link

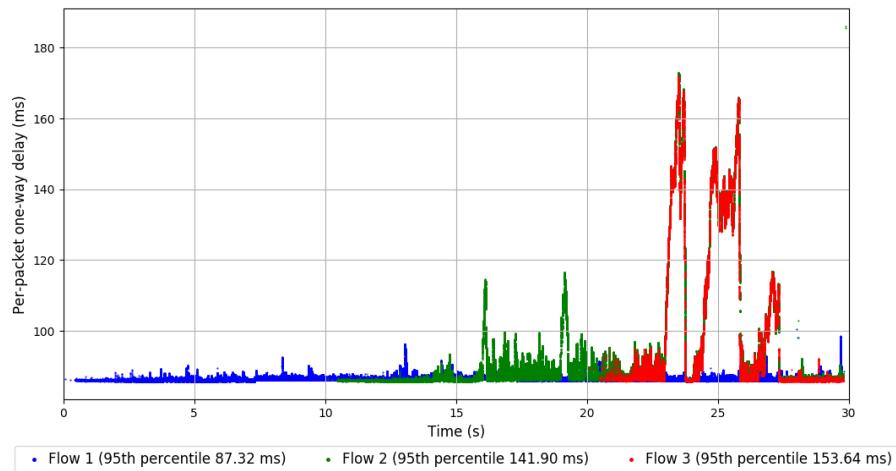
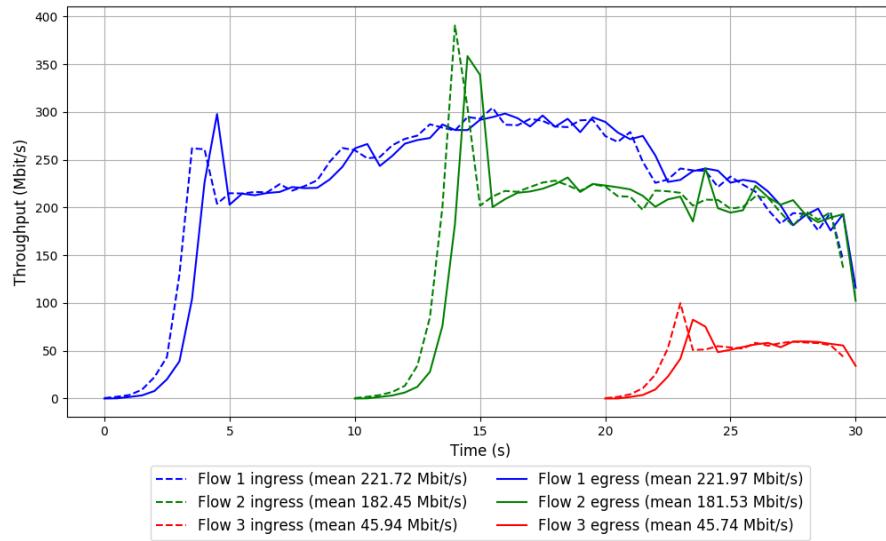


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-05-22 16:04:39
End at: 2018-05-22 16:05:09
Local clock offset: -0.079 ms
Remote clock offset: -0.248 ms

# Below is generated by plot.py at 2018-05-22 18:30:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 356.72 Mbit/s
95th percentile per-packet one-way delay: 115.205 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 221.97 Mbit/s
95th percentile per-packet one-way delay: 87.321 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 181.53 Mbit/s
95th percentile per-packet one-way delay: 141.900 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 45.74 Mbit/s
95th percentile per-packet one-way delay: 153.638 ms
Loss rate: 2.21%
```

Run 8: Report of PCC-Vivace — Data Link

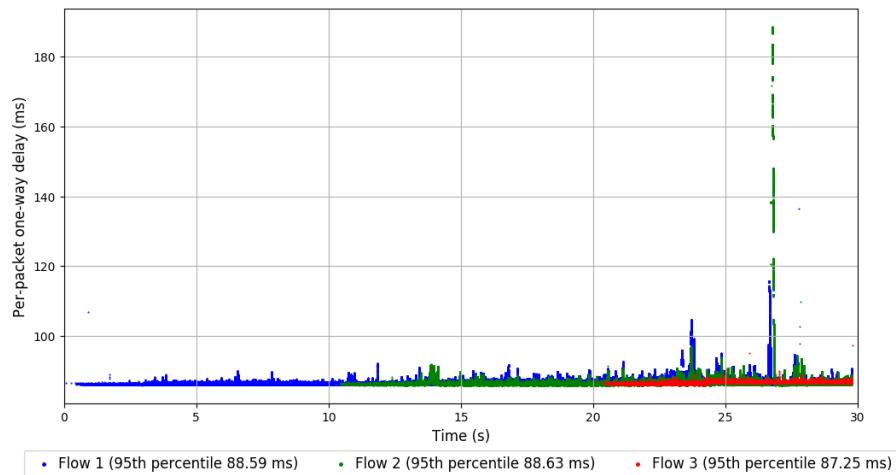
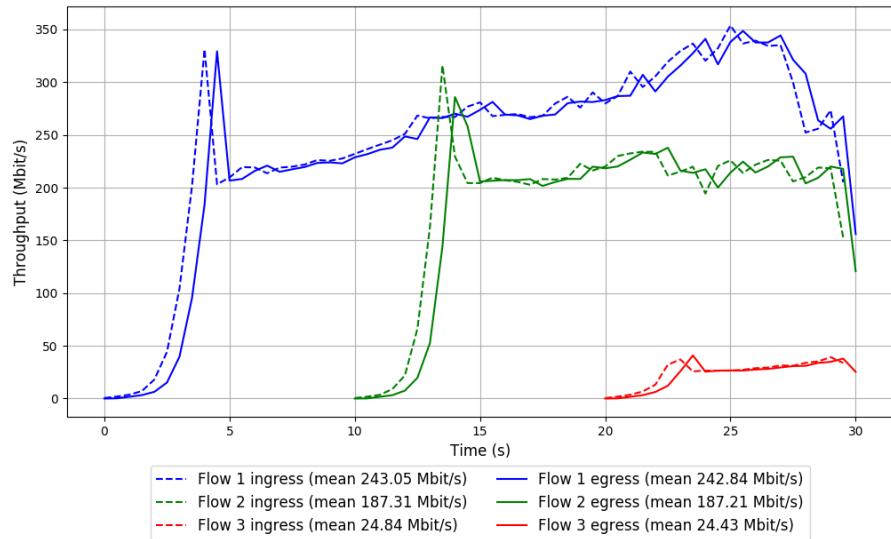


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-05-22 16:27:12
End at: 2018-05-22 16:27:42
Local clock offset: 0.022 ms
Remote clock offset: -0.661 ms

# Below is generated by plot.py at 2018-05-22 18:30:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 374.75 Mbit/s
95th percentile per-packet one-way delay: 88.566 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 242.84 Mbit/s
95th percentile per-packet one-way delay: 88.591 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 187.21 Mbit/s
95th percentile per-packet one-way delay: 88.628 ms
Loss rate: 0.93%
-- Flow 3:
Average throughput: 24.43 Mbit/s
95th percentile per-packet one-way delay: 87.248 ms
Loss rate: 3.26%
```

Run 9: Report of PCC-Vivace — Data Link

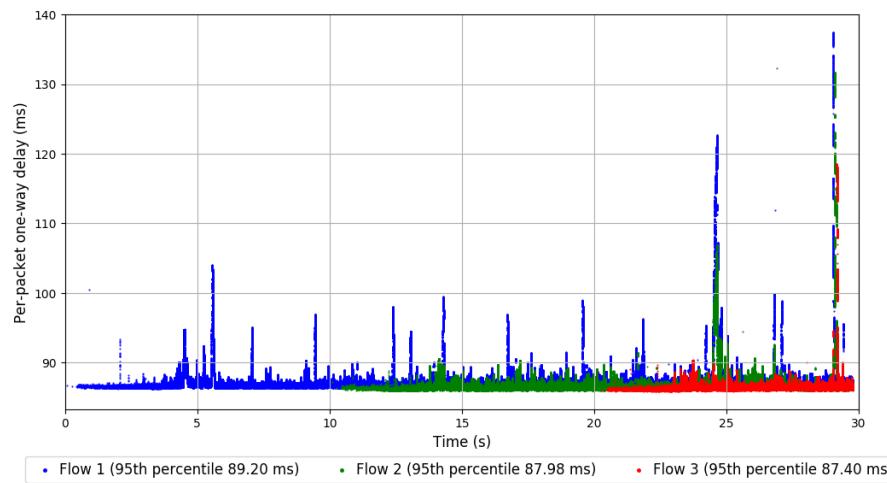
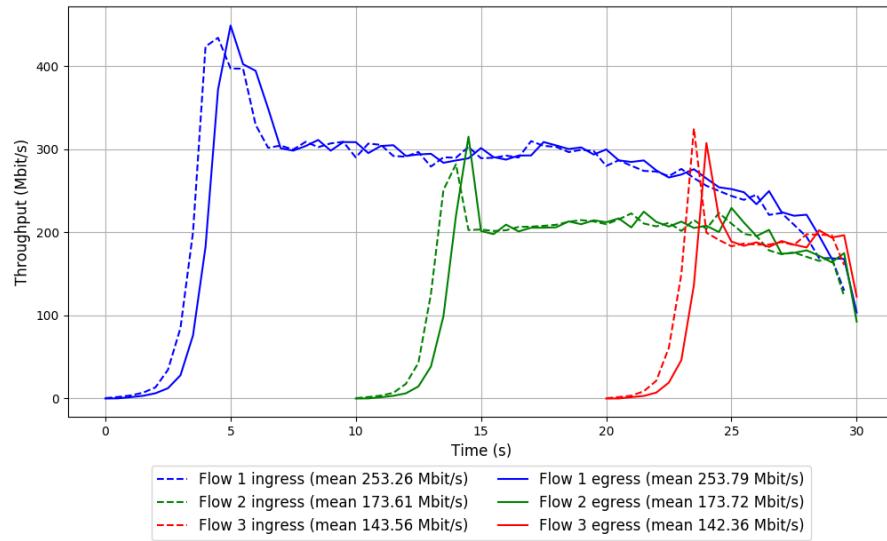


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-05-22 16:49:51
End at: 2018-05-22 16:50:21
Local clock offset: 0.044 ms
Remote clock offset: -0.814 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.32 Mbit/s
95th percentile per-packet one-way delay: 88.642 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 253.79 Mbit/s
95th percentile per-packet one-way delay: 89.198 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 173.72 Mbit/s
95th percentile per-packet one-way delay: 87.984 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 142.36 Mbit/s
95th percentile per-packet one-way delay: 87.396 ms
Loss rate: 2.59%
```

Run 10: Report of PCC-Vivace — Data Link

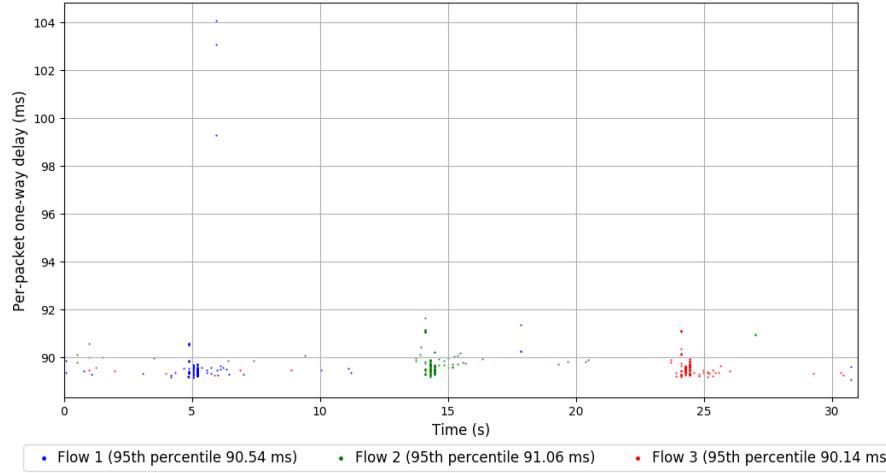
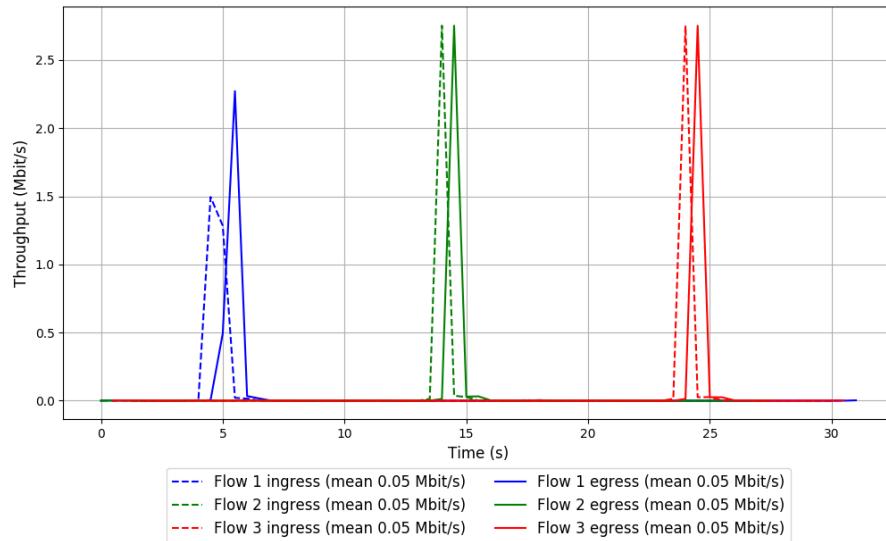


Run 1: Statistics of WebRTC media

```
Start at: 2018-05-22 13:11:20
End at: 2018-05-22 13:11:50
Local clock offset: 3.053 ms
Remote clock offset: 0.697 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 90.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.542 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.062 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.143 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

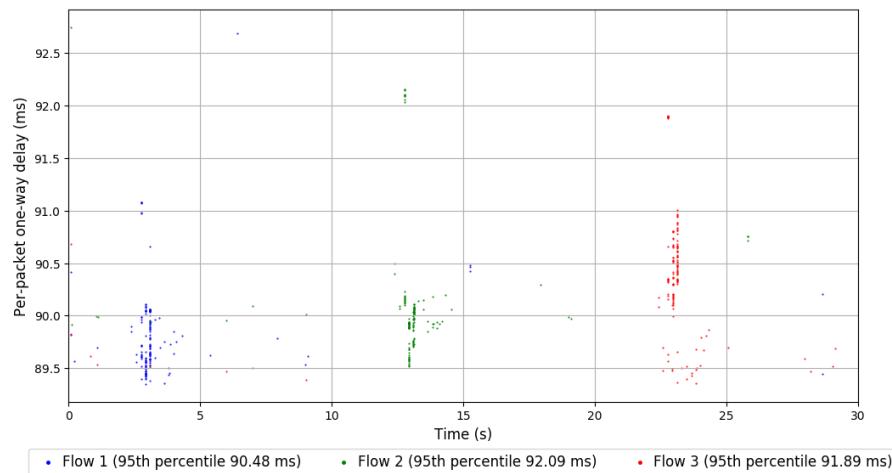
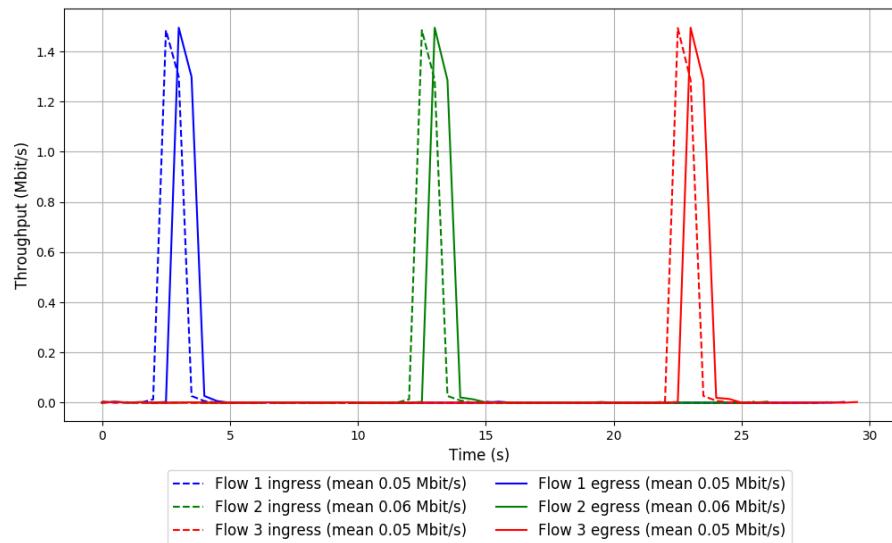


Run 2: Statistics of WebRTC media

```
Start at: 2018-05-22 13:33:51
End at: 2018-05-22 13:34:21
Local clock offset: 3.48 ms
Remote clock offset: 0.877 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 91.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.480 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 92.095 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.885 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

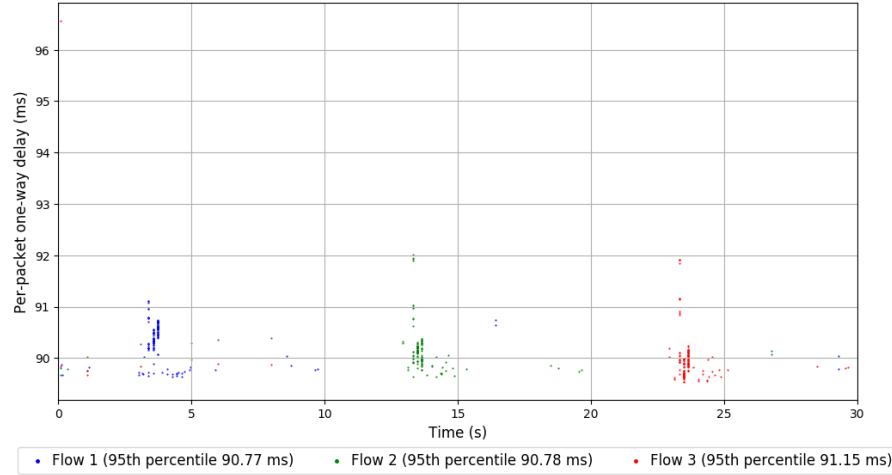
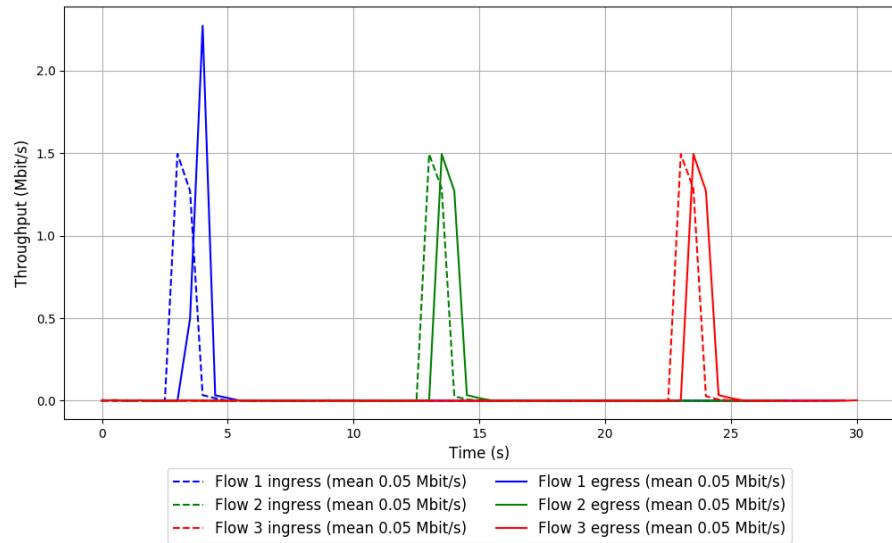


Run 3: Statistics of WebRTC media

```
Start at: 2018-05-22 13:56:26
End at: 2018-05-22 13:56:56
Local clock offset: 3.673 ms
Remote clock offset: 1.028 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 90.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.769 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.779 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.146 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

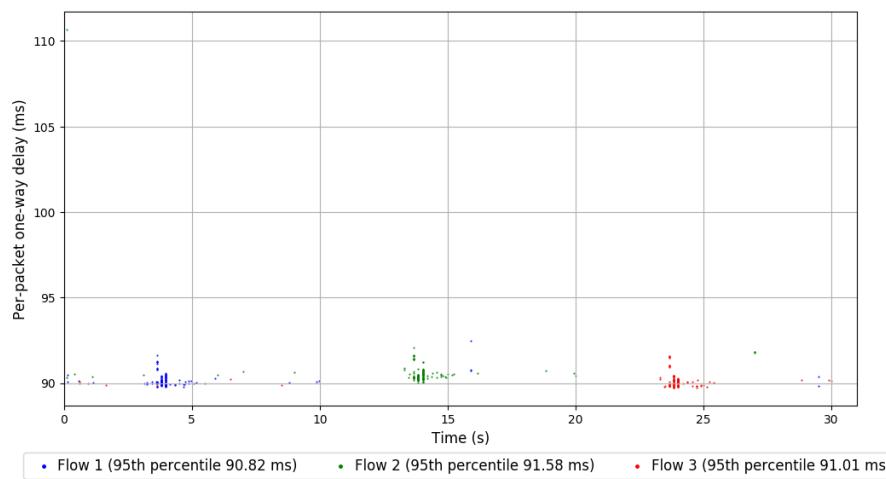
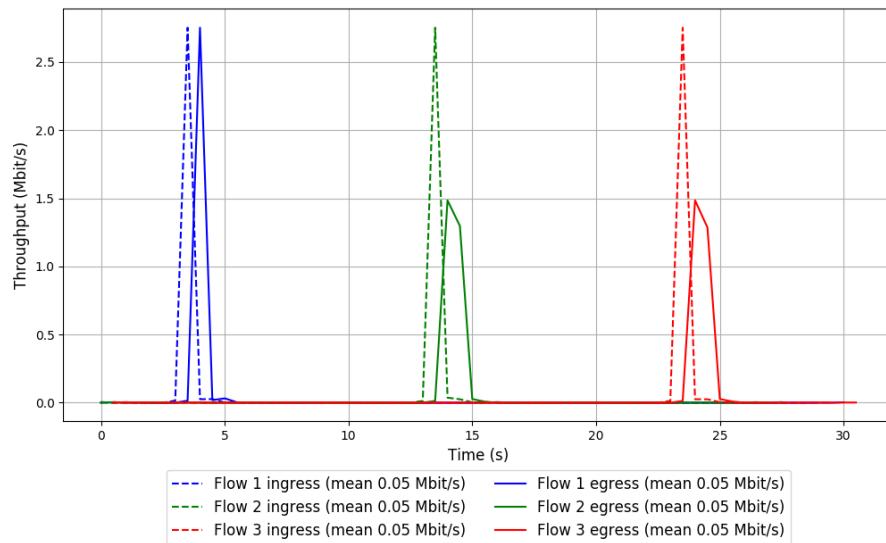


Run 4: Statistics of WebRTC media

```
Start at: 2018-05-22 14:19:04
End at: 2018-05-22 14:19:34
Local clock offset: 3.878 ms
Remote clock offset: 1.137 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 91.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.819 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.585 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.007 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

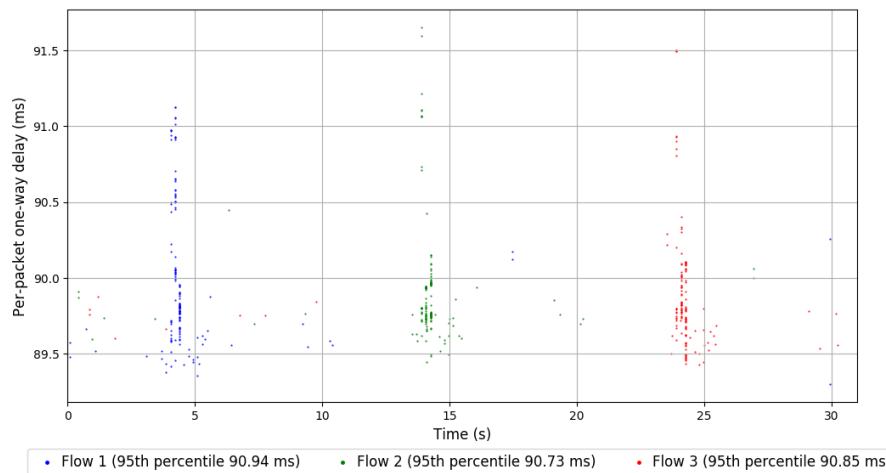
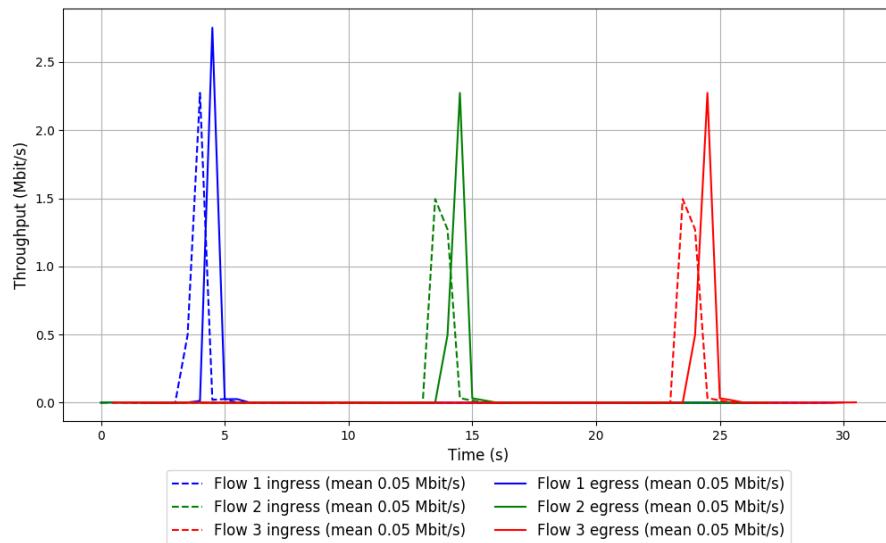


Run 5: Statistics of WebRTC media

```
Start at: 2018-05-22 14:41:30
End at: 2018-05-22 14:42:00
Local clock offset: 3.506 ms
Remote clock offset: 1.207 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 90.927 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.941 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.732 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.849 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

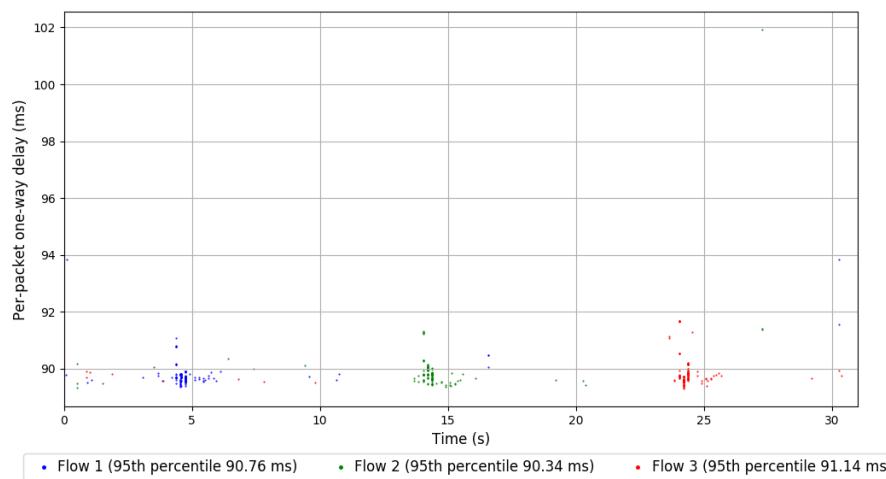
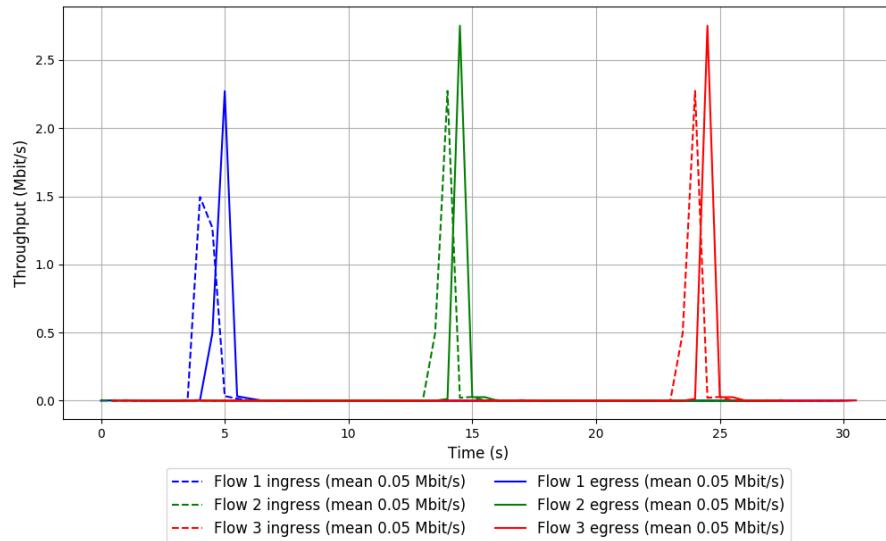


Run 6: Statistics of WebRTC media

```
Start at: 2018-05-22 15:04:07
End at: 2018-05-22 15:04:37
Local clock offset: 3.543 ms
Remote clock offset: 1.401 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 90.778 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.345 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.143 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

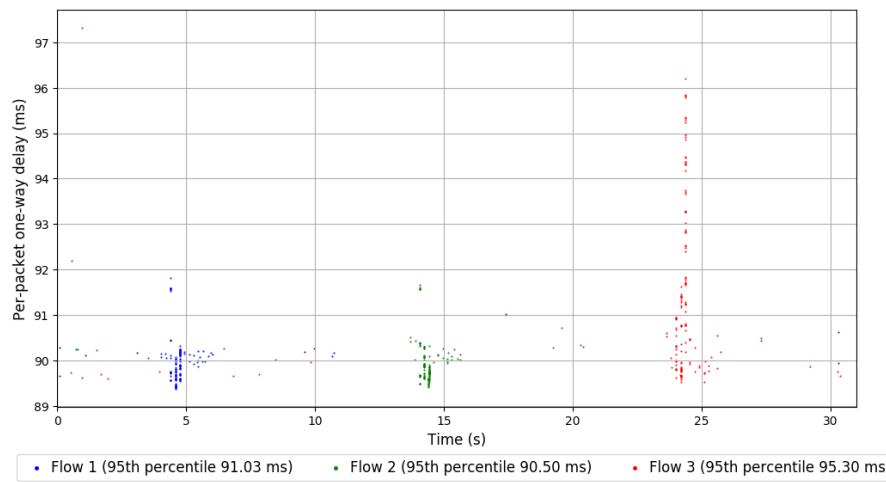
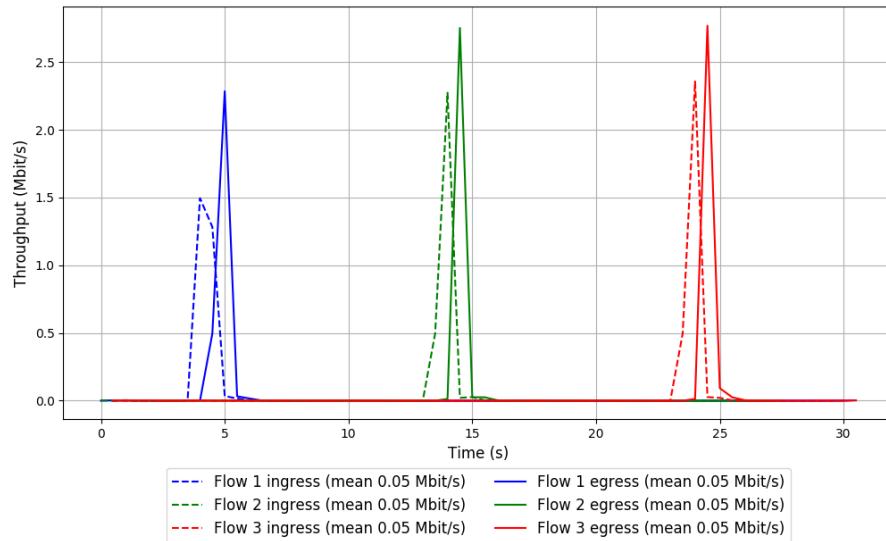


Run 7: Statistics of WebRTC media

```
Start at: 2018-05-22 15:26:19
End at: 2018-05-22 15:26:49
Local clock offset: 3.49 ms
Remote clock offset: 1.438 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 93.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 91.029 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 90.503 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 95.298 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

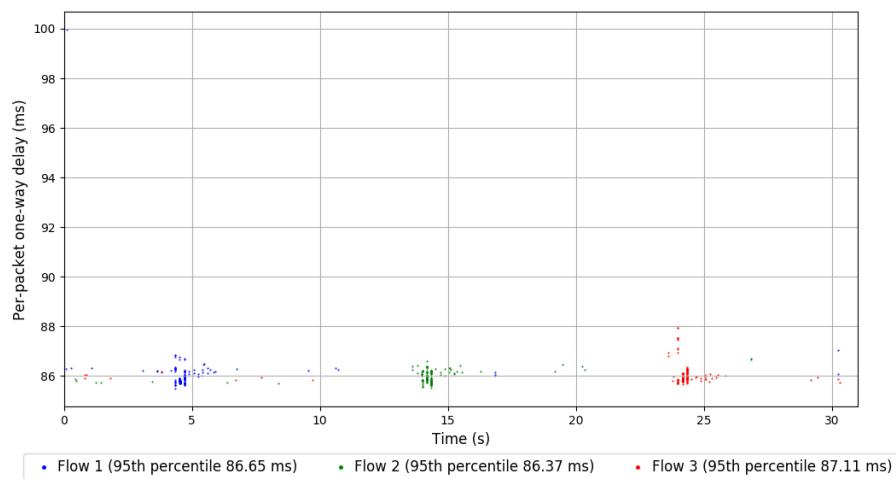
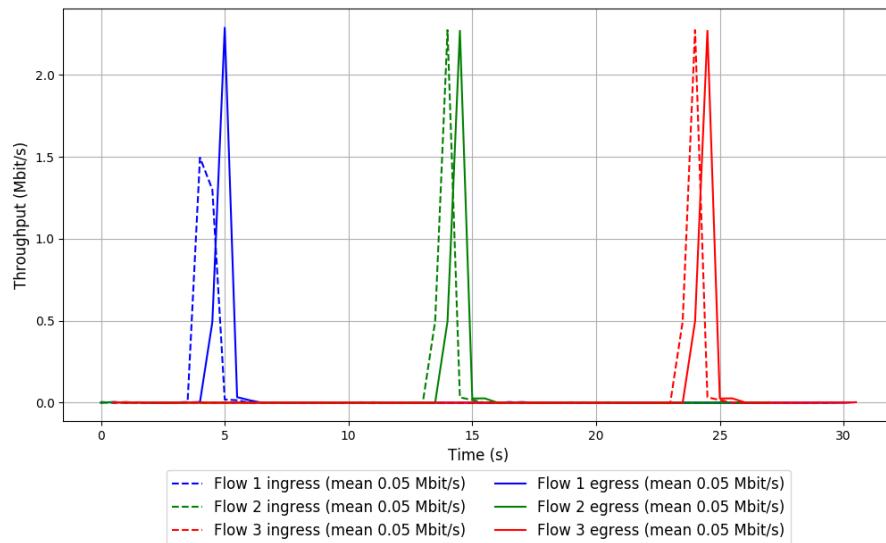


Run 8: Statistics of WebRTC media

```
Start at: 2018-05-22 15:48:58
End at: 2018-05-22 15:49:28
Local clock offset: -0.348 ms
Remote clock offset: 0.441 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.584 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.650 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.115 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

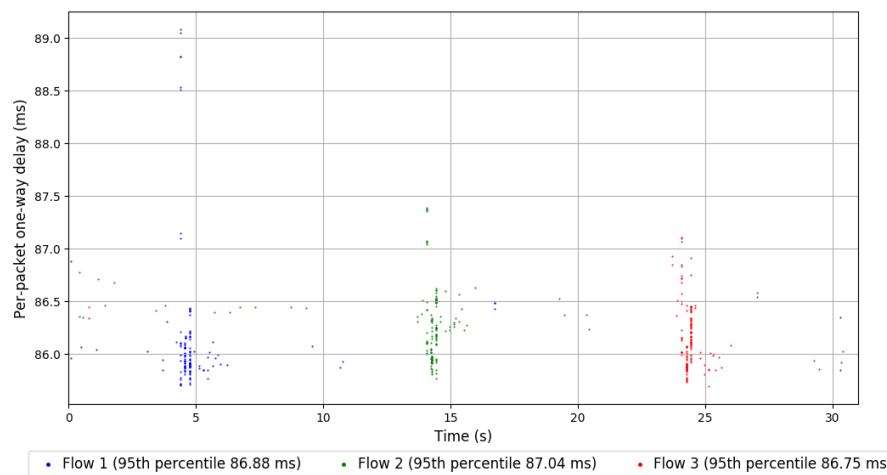
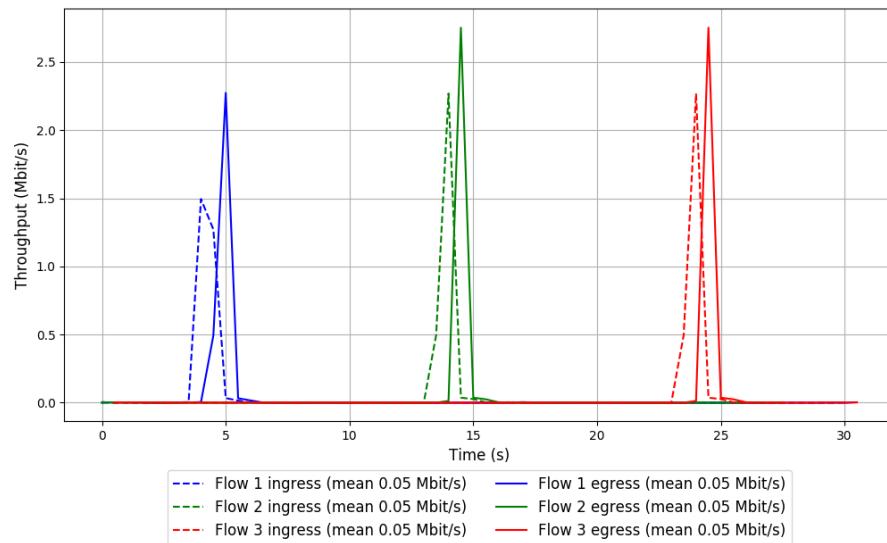


Run 9: Statistics of WebRTC media

```
Start at: 2018-05-22 16:11:35
End at: 2018-05-22 16:12:05
Local clock offset: -0.139 ms
Remote clock offset: -0.463 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.847 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.877 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.044 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.755 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

```
Start at: 2018-05-22 16:34:09
End at: 2018-05-22 16:34:39
Local clock offset: -0.215 ms
Remote clock offset: -0.626 ms

# Below is generated by plot.py at 2018-05-22 18:31:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 86.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.419 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.703 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.546 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

