

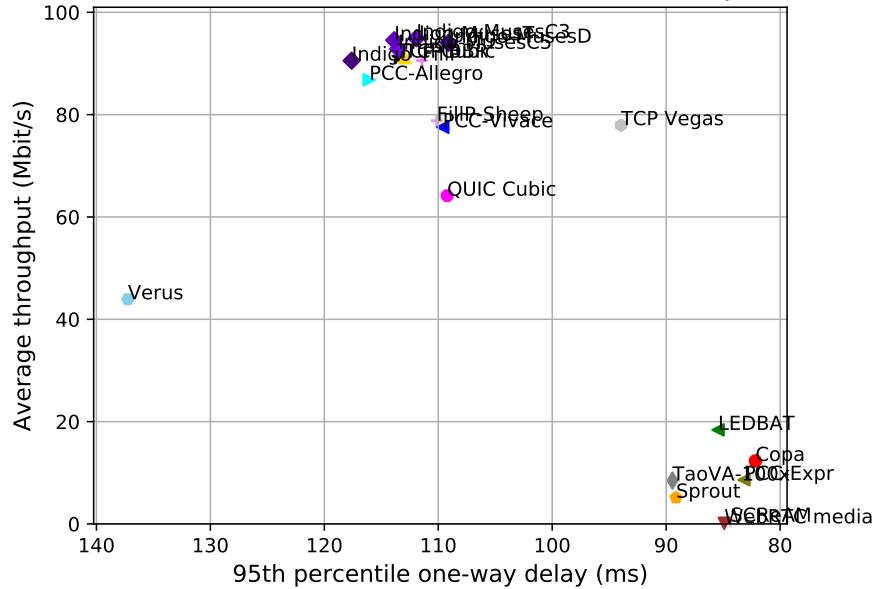
Pantheon Report

Generated at 2019-02-05 09:45:44 (UTC).
Data path: AWS Brazil 2 on `ens5` (*local*) → Colombia on `p4p1` (*remote*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

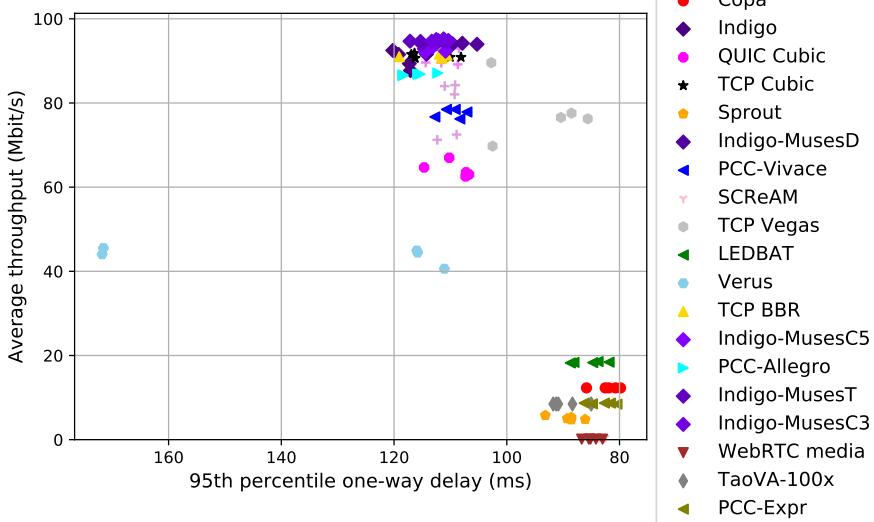
```
System info:  
Linux 4.15.0-1031-aws  
net.core.default_qdisc = fq  
net.core.rmem_default = 16777216  
net.core.rmem_max = 536870912  
net.core.wmem_default = 16777216  
net.core.wmem_max = 536870912  
net.ipv4.tcp_rmem = 4096 16777216 536870912  
net.ipv4.tcp_wmem = 4096 16777216 536870912  
  
Git summary:  
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee  
third_party/fillp @ d6da1459332fceef56963885d7eba17e6a32d4519  
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966  
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
M receiver/src/buffer.h  
M receiver/src/core.cpp  
M sender/src/buffer.h  
M sender/src/core.cpp  
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2  
M src/ScreamClient  
M src/ScreamServer  
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26  
M src/examples/cellsim.cc  
M src/examples/sproutbt2.cc  
M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
M src/verus.hpp  
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS Brazil 2 to Colombia, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows



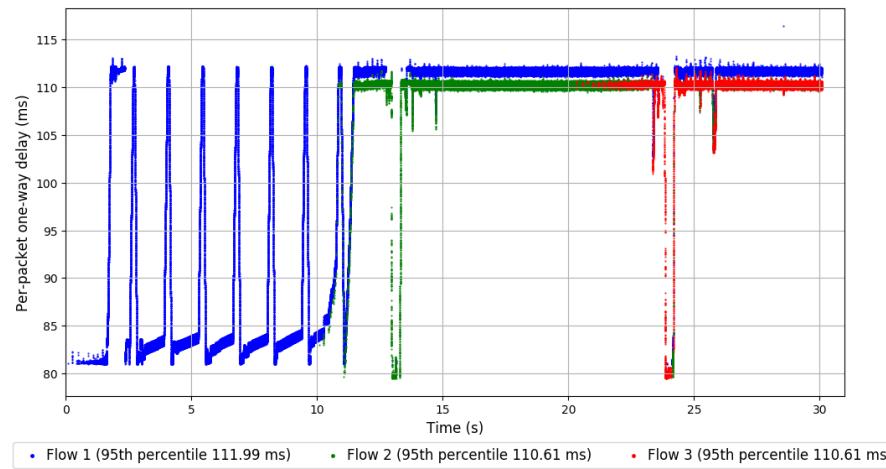
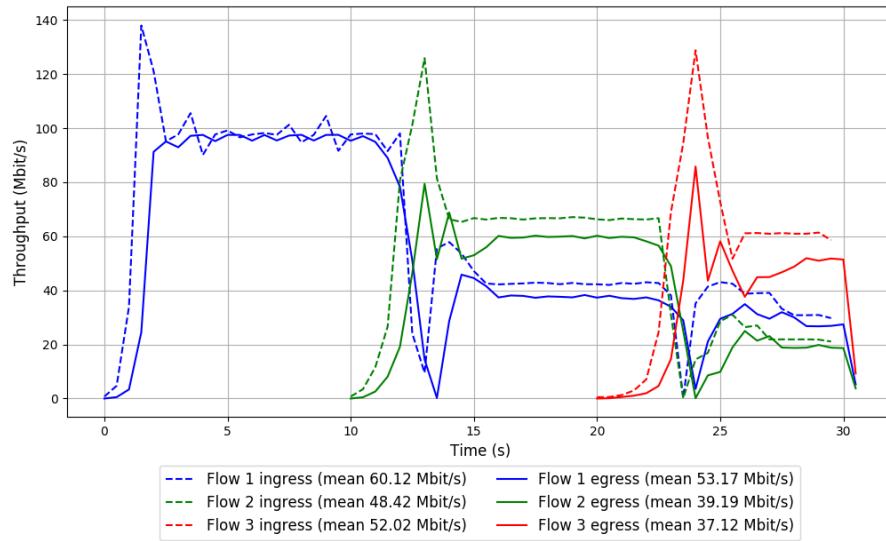
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	55.40	38.45	31.07	112.29	111.46	111.74	13.13	19.93	27.72
Copa		9.43	4.32	0.01	82.18	81.69	82.46	74.16	84.36	90.17
TCP Cubic		73.42	17.54	18.16	113.44	113.93	109.79	0.67	0.19	0.24
FillP		52.10	44.18	27.38	110.92	111.28	111.83	16.06	25.45	25.00
FillP-Sheep		21.87	75.48	20.32	109.35	110.47	108.89	7.58	5.53	12.67
Indigo		62.39	28.76	28.77	116.15	116.55	117.77	9.18	25.44	52.51
Indigo-MusesC3		49.58	48.89	45.30	109.42	111.67	111.40	1.34	2.17	4.84
Indigo-MusesC5		52.35	58.75	7.81	113.12	113.53	114.10	1.53	3.19	5.39
Indigo-MusesD		61.43	37.33	27.84	108.42	108.51	109.57	0.80	0.70	2.07
Indigo-MusesT		53.28	51.46	26.45	113.09	113.95	113.13	6.32	4.16	7.46
LEDBAT		11.87	7.90	3.83	85.60	84.75	84.94	0.01	0.03	0.00
PCC-Allegro		78.59	8.25	8.27	116.04	116.08	115.39	2.67	4.08	4.57
PCC-Expr		0.01	10.06	5.81	83.23	83.23	82.85	85.71	61.29	37.00
QUIC Cubic		46.56	20.68	11.86	109.73	107.65	101.65	0.72	0.36	0.46
SCReAM		0.22	0.22	0.22	83.60	83.47	83.58	0.00	0.00	0.00
Sprout		2.73	2.69	1.88	89.18	89.47	87.98	0.00	0.00	0.00
TaoVA-100x		0.00	8.57	8.34	84.52	94.02	83.56	95.17	36.97	80.27
TCP Vegas		52.21	24.67	27.99	94.11	95.00	93.47	1.10	0.56	0.94
Verus		22.85	25.87	12.78	126.31	127.64	122.50	30.26	46.53	41.19
PCC-Vivace		65.71	13.72	8.17	109.33	109.53	108.81	0.18	0.30	0.39
WebRTC media		0.05	0.04	0.04	84.68	83.76	84.46	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2019-02-05 07:28:00
End at: 2019-02-05 07:28:30
Local clock offset: -7.593 ms
Remote clock offset: 4.388 ms

# Below is generated by plot.py at 2019-02-05 09:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.60 Mbit/s
95th percentile per-packet one-way delay: 111.942 ms
Loss rate: 16.38%
-- Flow 1:
Average throughput: 53.17 Mbit/s
95th percentile per-packet one-way delay: 111.994 ms
Loss rate: 11.48%
-- Flow 2:
Average throughput: 39.19 Mbit/s
95th percentile per-packet one-way delay: 110.608 ms
Loss rate: 18.95%
-- Flow 3:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 110.610 ms
Loss rate: 28.64%
```

Run 1: Report of TCP BBR — Data Link

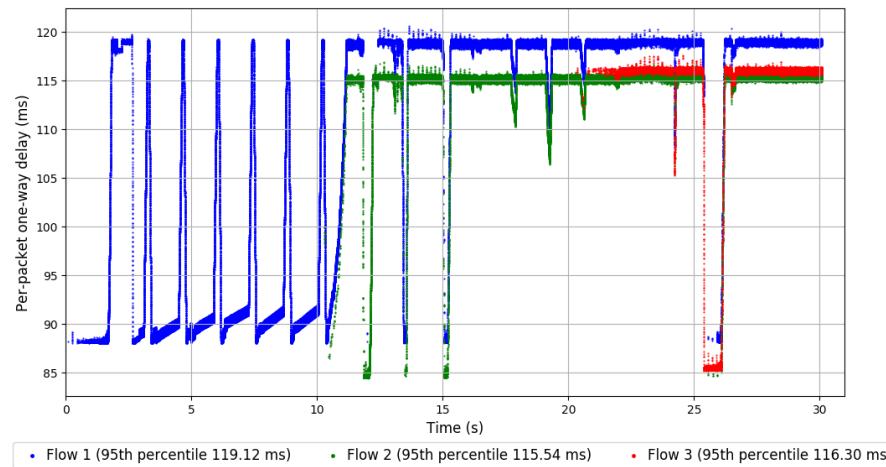
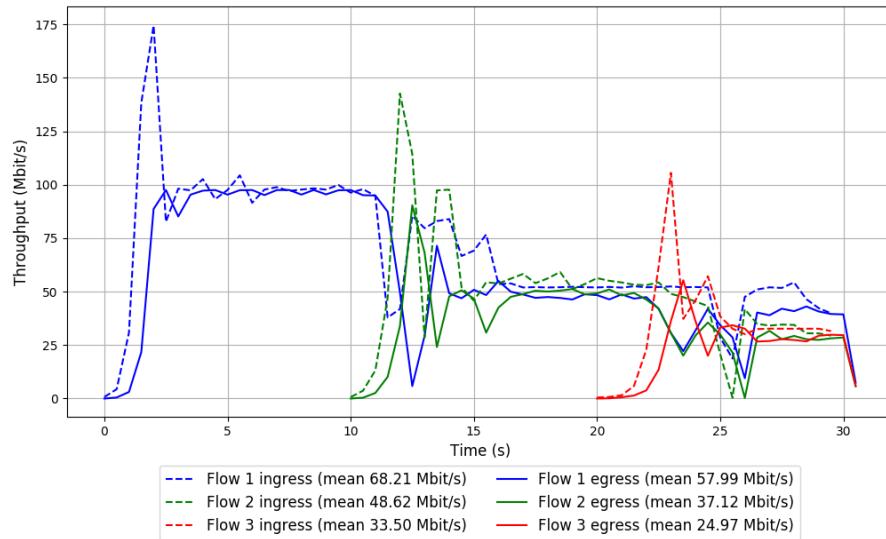


Run 2: Statistics of TCP BBR

```
Start at: 2019-02-05 07:54:40
End at: 2019-02-05 07:55:10
Local clock offset: -4.57 ms
Remote clock offset: 6.172 ms

# Below is generated by plot.py at 2019-02-05 09:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 119.076 ms
Loss rate: 18.48%
-- Flow 1:
Average throughput: 57.99 Mbit/s
95th percentile per-packet one-way delay: 119.119 ms
Loss rate: 14.90%
-- Flow 2:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 115.543 ms
Loss rate: 23.60%
-- Flow 3:
Average throughput: 24.97 Mbit/s
95th percentile per-packet one-way delay: 116.295 ms
Loss rate: 25.47%
```

Run 2: Report of TCP BBR — Data Link

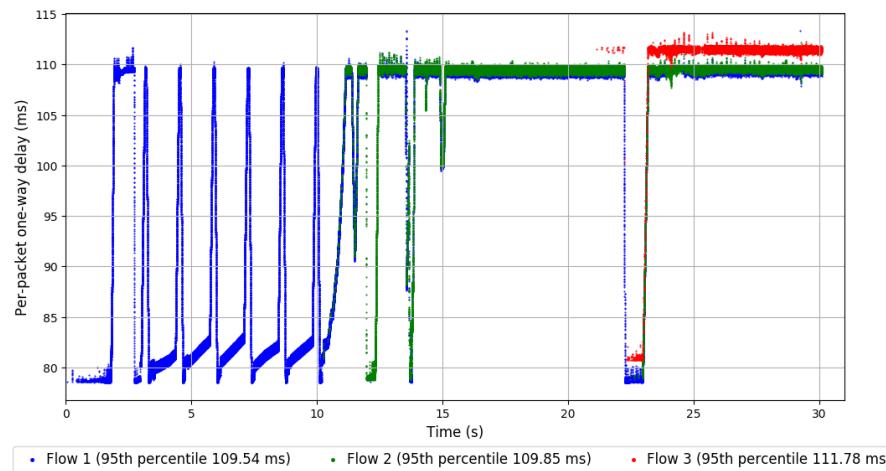
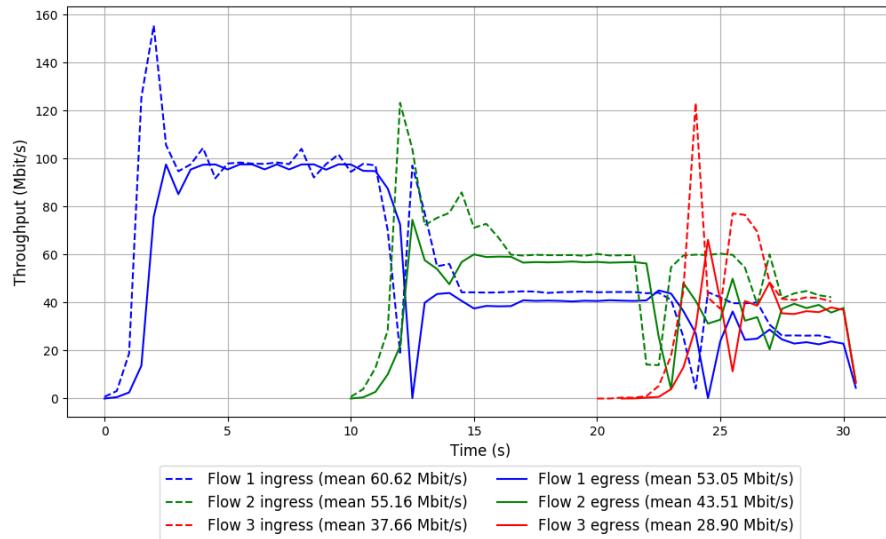


Run 3: Statistics of TCP BBR

```
Start at: 2019-02-05 08:21:23
End at: 2019-02-05 08:21:53
Local clock offset: -0.616 ms
Remote clock offset: 0.704 ms

# Below is generated by plot.py at 2019-02-05 09:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 111.531 ms
Loss rate: 17.40%
-- Flow 1:
Average throughput: 53.05 Mbit/s
95th percentile per-packet one-way delay: 109.538 ms
Loss rate: 12.40%
-- Flow 2:
Average throughput: 43.51 Mbit/s
95th percentile per-packet one-way delay: 109.853 ms
Loss rate: 21.01%
-- Flow 3:
Average throughput: 28.90 Mbit/s
95th percentile per-packet one-way delay: 111.775 ms
Loss rate: 30.99%
```

Run 3: Report of TCP BBR — Data Link

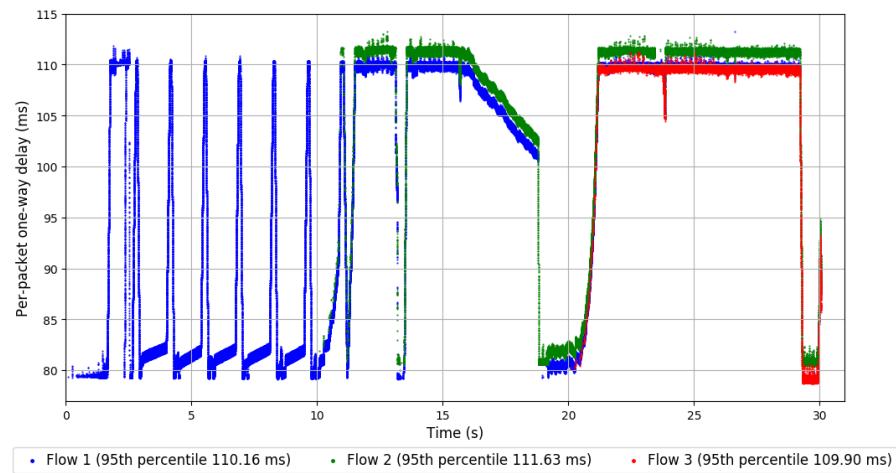
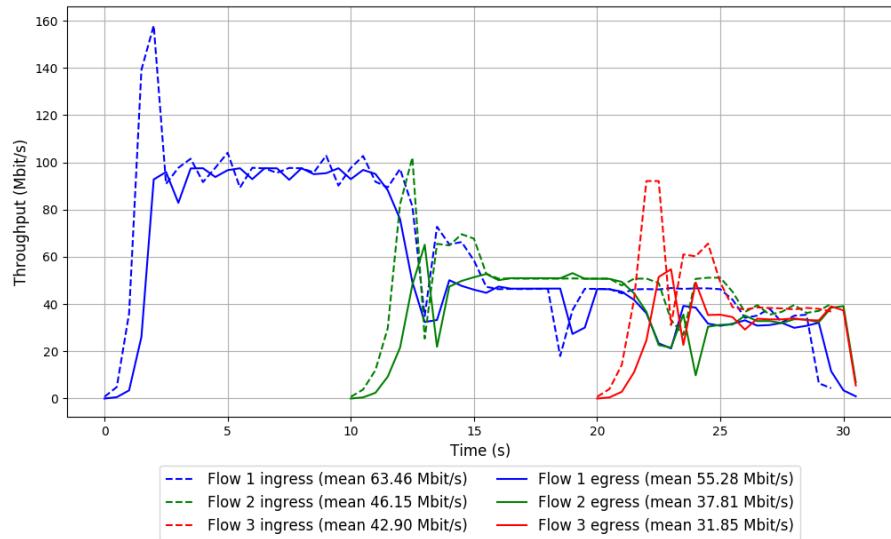


Run 4: Statistics of TCP BBR

```
Start at: 2019-02-05 08:47:58
End at: 2019-02-05 08:48:28
Local clock offset: -1.536 ms
Remote clock offset: 0.127 ms

# Below is generated by plot.py at 2019-02-05 09:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.95 Mbit/s
95th percentile per-packet one-way delay: 111.479 ms
Loss rate: 16.02%
-- Flow 1:
Average throughput: 55.28 Mbit/s
95th percentile per-packet one-way delay: 110.164 ms
Loss rate: 12.85%
-- Flow 2:
Average throughput: 37.81 Mbit/s
95th percentile per-packet one-way delay: 111.629 ms
Loss rate: 18.05%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 109.903 ms
Loss rate: 25.73%
```

Run 4: Report of TCP BBR — Data Link

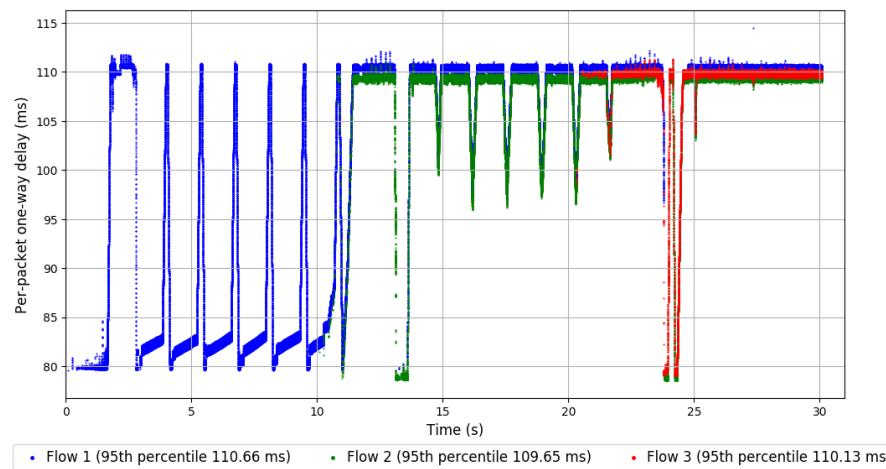
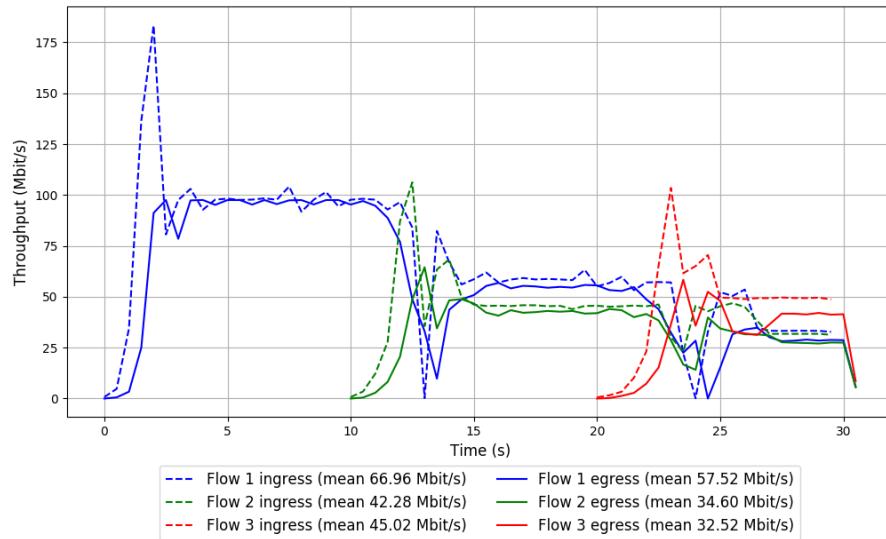


Run 5: Statistics of TCP BBR

```
Start at: 2019-02-05 09:14:36
End at: 2019-02-05 09:15:06
Local clock offset: -8.821 ms
Remote clock offset: -2.076 ms

# Below is generated by plot.py at 2019-02-05 09:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.38 Mbit/s
95th percentile per-packet one-way delay: 110.611 ms
Loss rate: 16.92%
-- Flow 1:
Average throughput: 57.52 Mbit/s
95th percentile per-packet one-way delay: 110.657 ms
Loss rate: 14.01%
-- Flow 2:
Average throughput: 34.60 Mbit/s
95th percentile per-packet one-way delay: 109.648 ms
Loss rate: 18.05%
-- Flow 3:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 110.128 ms
Loss rate: 27.78%
```

Run 5: Report of TCP BBR — Data Link

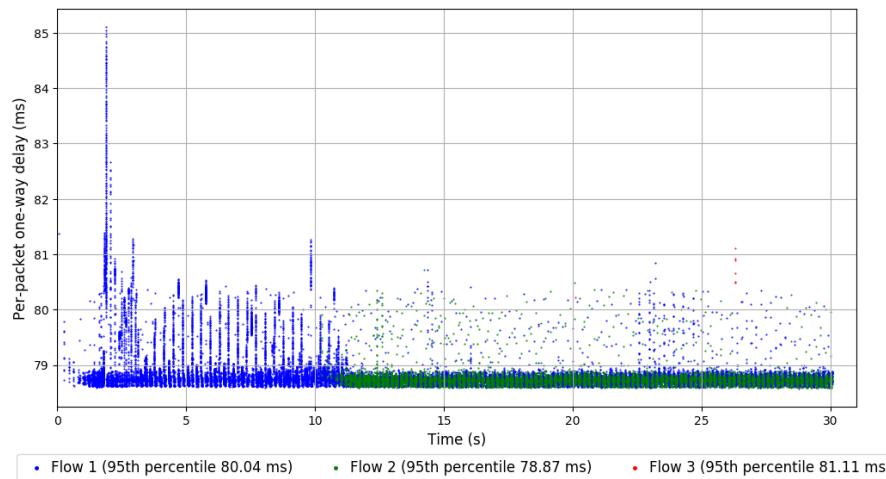
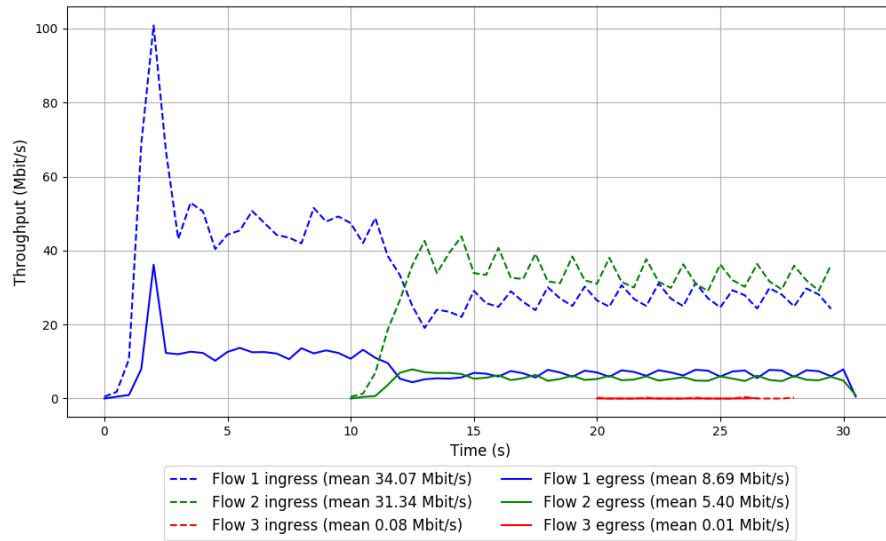


Run 1: Statistics of Copa

```
Start at: 2019-02-05 07:29:19
End at: 2019-02-05 07:29:49
Local clock offset: -6.899 ms
Remote clock offset: 4.496 ms

# Below is generated by plot.py at 2019-02-05 09:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.29 Mbit/s
95th percentile per-packet one-way delay: 79.823 ms
Loss rate: 77.63%
-- Flow 1:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 80.039 ms
Loss rate: 74.49%
-- Flow 2:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 78.870 ms
Loss rate: 82.76%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 81.115 ms
Loss rate: 89.34%
```

Run 1: Report of Copa — Data Link

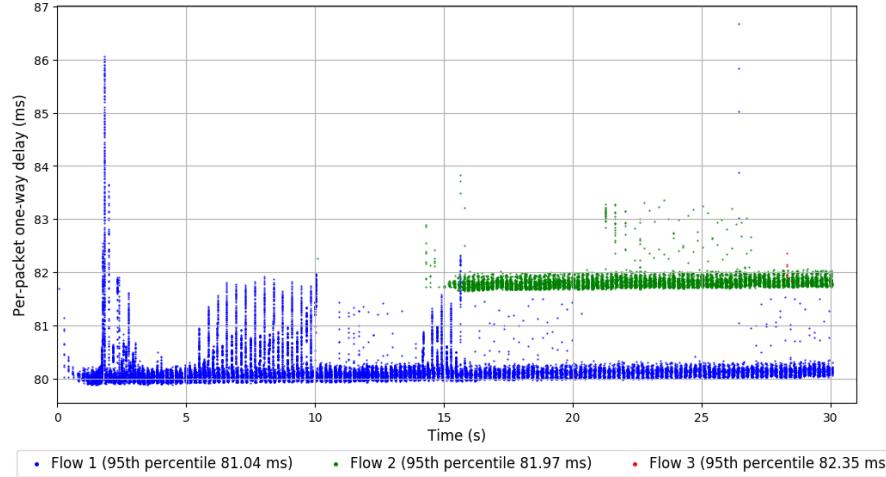
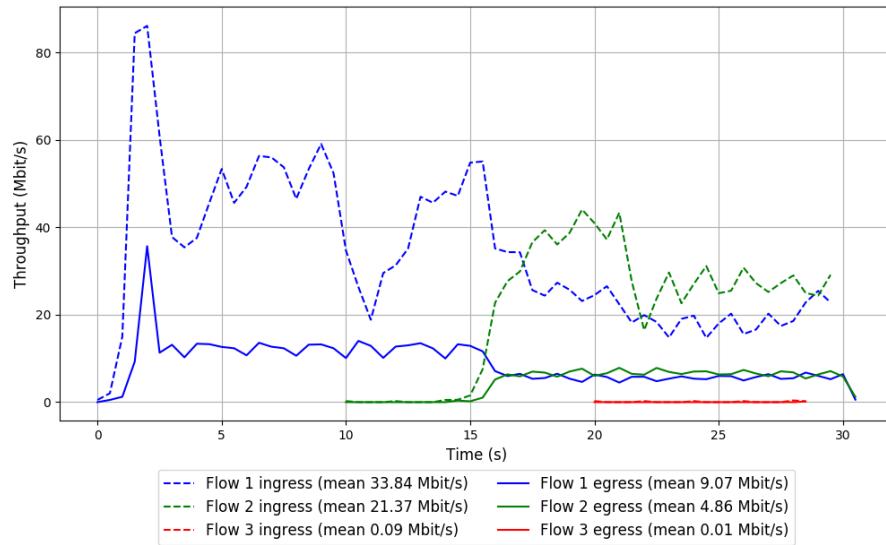


Run 2: Statistics of Copa

```
Start at: 2019-02-05 07:55:59
End at: 2019-02-05 07:56:29
Local clock offset: -3.475 ms
Remote clock offset: 2.413 ms

# Below is generated by plot.py at 2019-02-05 09:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 81.888 ms
Loss rate: 74.40%
-- Flow 1:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 81.039 ms
Loss rate: 73.18%
-- Flow 2:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 81.968 ms
Loss rate: 77.27%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 82.354 ms
Loss rate: 90.65%
```

Run 2: Report of Copa — Data Link

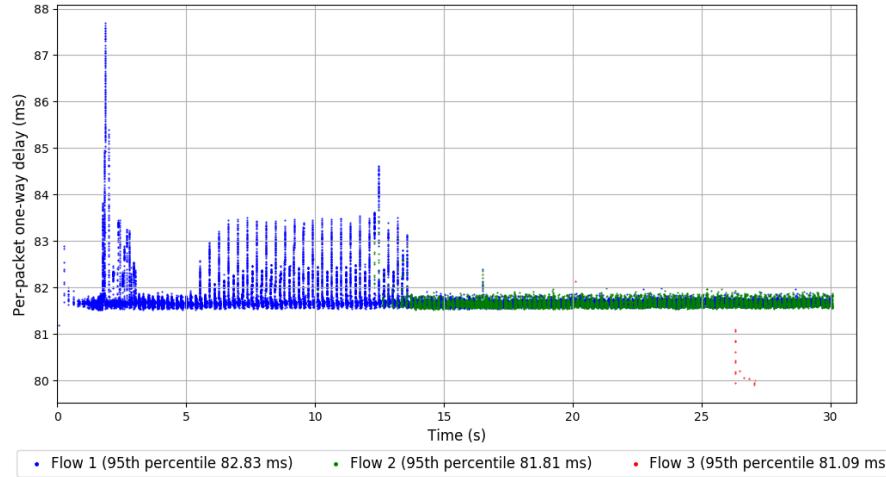
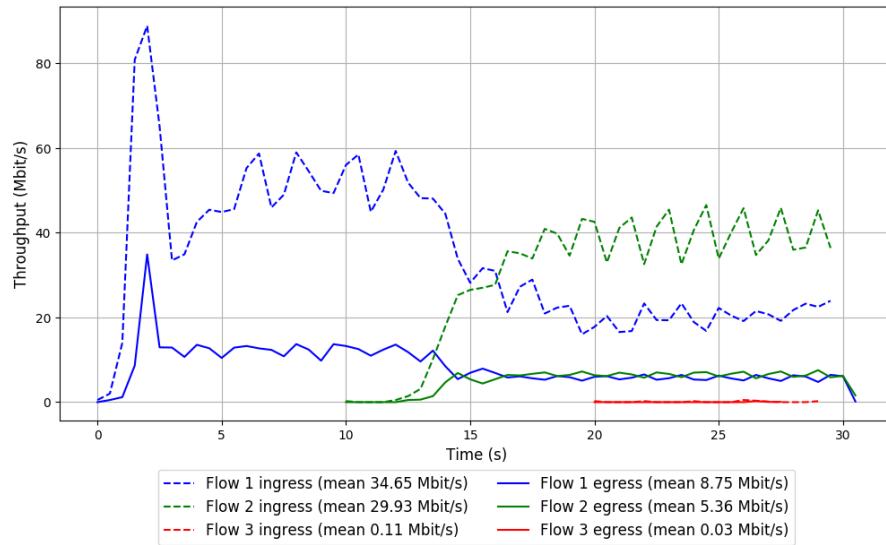


Run 3: Statistics of Copa

```
Start at: 2019-02-05 08:22:41
End at: 2019-02-05 08:23:11
Local clock offset: -0.537 ms
Remote clock offset: 2.035 ms

# Below is generated by plot.py at 2019-02-05 09:36:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 82.543 ms
Loss rate: 77.44%
-- Flow 1:
Average throughput: 8.75 Mbit/s
95th percentile per-packet one-way delay: 82.826 ms
Loss rate: 74.74%
-- Flow 2:
Average throughput: 5.36 Mbit/s
95th percentile per-packet one-way delay: 81.807 ms
Loss rate: 82.10%
-- Flow 3:
Average throughput: 0.03 Mbit/s
95th percentile per-packet one-way delay: 81.086 ms
Loss rate: 80.16%
```

Run 3: Report of Copa — Data Link

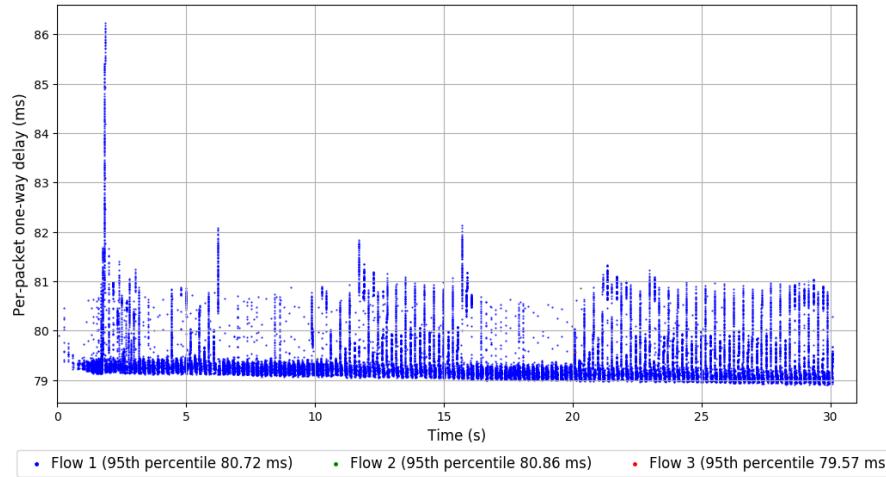
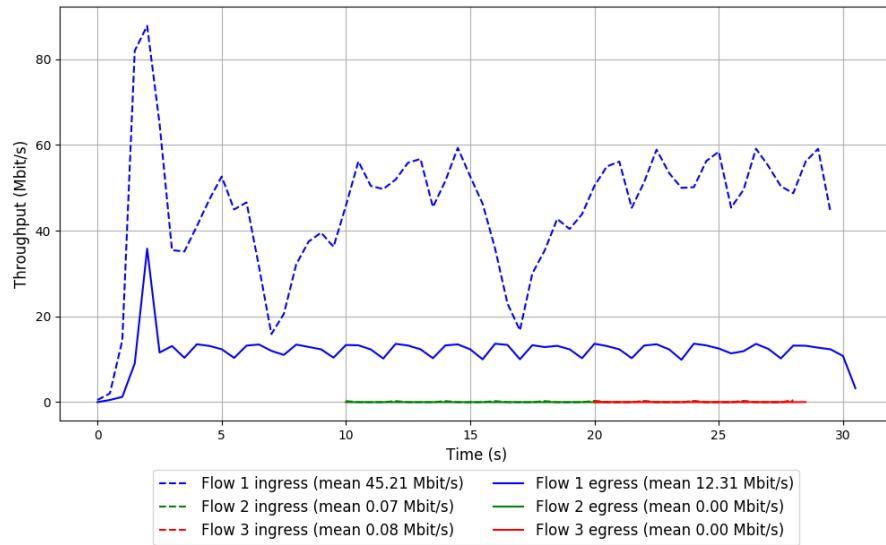


Run 4: Statistics of Copa

```
Start at: 2019-02-05 08:49:17
End at: 2019-02-05 08:49:47
Local clock offset: -2.562 ms
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-02-05 09:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 80.719 ms
Loss rate: 72.81%
-- Flow 1:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 80.718 ms
Loss rate: 72.77%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 80.864 ms
Loss rate: 98.94%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 79.567 ms
Loss rate: 98.13%
```

Run 4: Report of Copa — Data Link

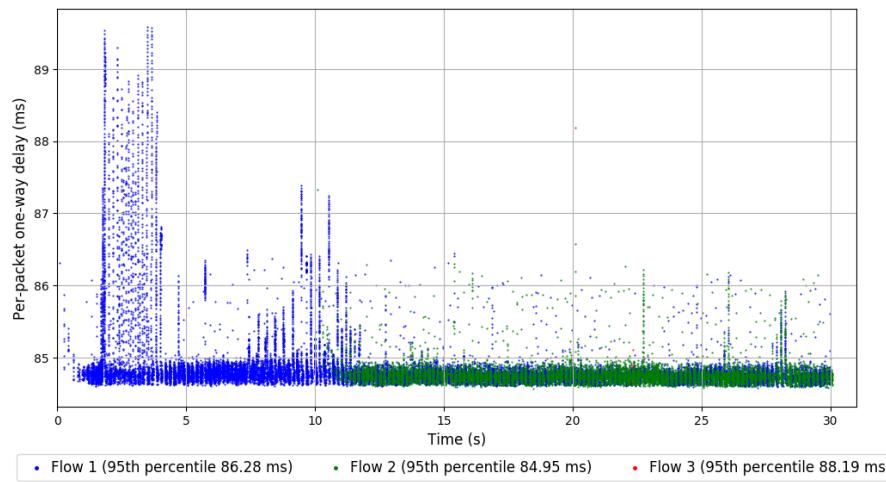
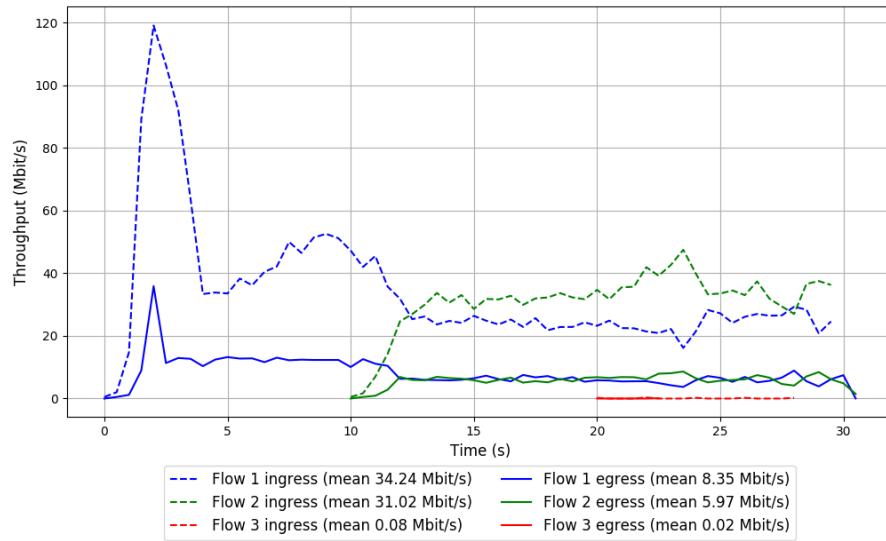


Run 5: Statistics of Copa

```
Start at: 2019-02-05 09:15:55
End at: 2019-02-05 09:16:25
Local clock offset: -9.032 ms
Remote clock offset: 4.086 ms

# Below is generated by plot.py at 2019-02-05 09:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 85.855 ms
Loss rate: 77.56%
-- Flow 1:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 86.281 ms
Loss rate: 75.62%
-- Flow 2:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 84.954 ms
Loss rate: 80.74%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 88.189 ms
Loss rate: 92.58%
```

Run 5: Report of Copa — Data Link

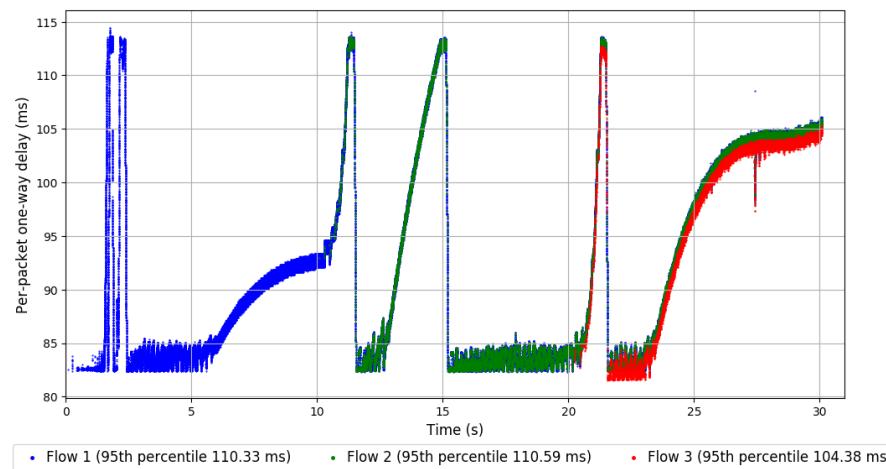
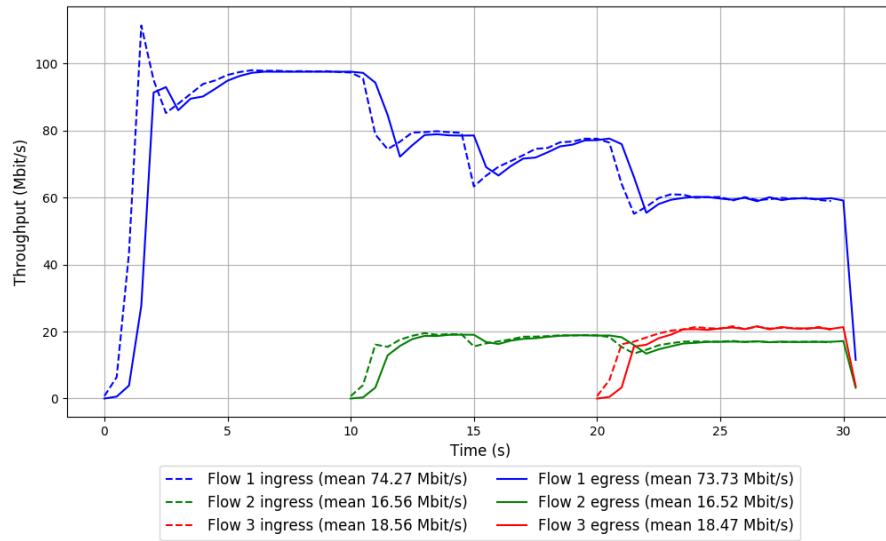


```
Run 1: Statistics of TCP Cubic

Start at: 2019-02-05 07:22:54
End at: 2019-02-05 07:23:24
Local clock offset: -7.361 ms
Remote clock offset: 4.462 ms

# Below is generated by plot.py at 2019-02-05 09:37:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.89 Mbit/s
95th percentile per-packet one-way delay: 110.040 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 73.73 Mbit/s
95th percentile per-packet one-way delay: 110.327 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 16.52 Mbit/s
95th percentile per-packet one-way delay: 110.594 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 18.47 Mbit/s
95th percentile per-packet one-way delay: 104.382 ms
Loss rate: 0.27%
```

Run 1: Report of TCP Cubic — Data Link

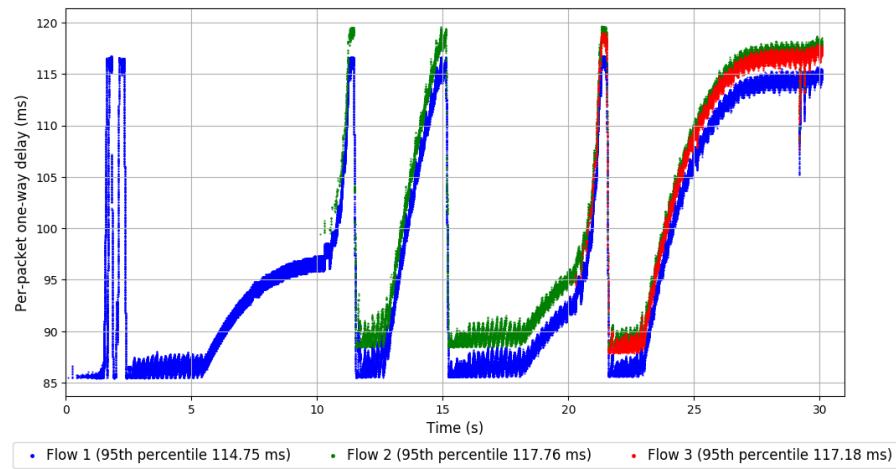
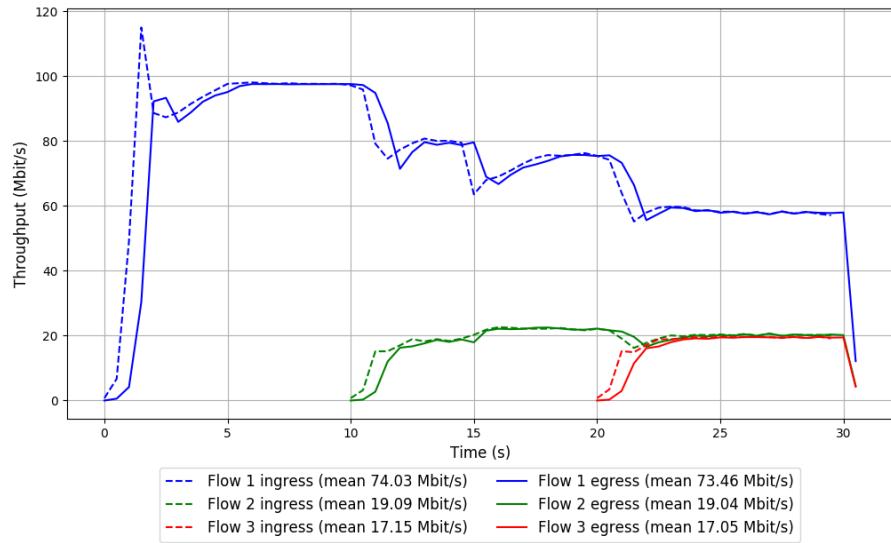


Run 2: Statistics of TCP Cubic

```
Start at: 2019-02-05 07:49:35
End at: 2019-02-05 07:50:05
Local clock offset: -5.6 ms
Remote clock offset: 7.612 ms

# Below is generated by plot.py at 2019-02-05 09:37:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 116.369 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 73.46 Mbit/s
95th percentile per-packet one-way delay: 114.749 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 19.04 Mbit/s
95th percentile per-packet one-way delay: 117.762 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 17.05 Mbit/s
95th percentile per-packet one-way delay: 117.176 ms
Loss rate: 0.32%
```

Run 2: Report of TCP Cubic — Data Link

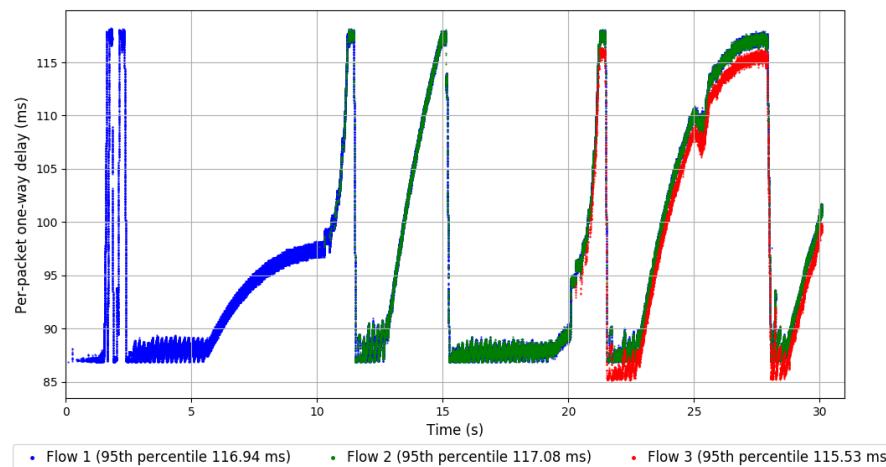
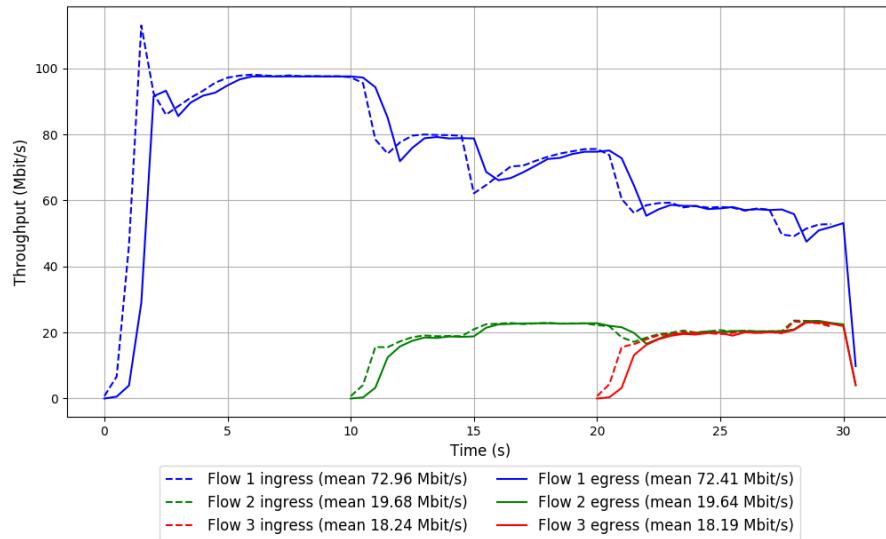


Run 3: Statistics of TCP Cubic

```
Start at: 2019-02-05 08:16:17
End at: 2019-02-05 08:16:47
Local clock offset: -1.708 ms
Remote clock offset: 6.504 ms

# Below is generated by plot.py at 2019-02-05 09:37:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 116.924 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 72.41 Mbit/s
95th percentile per-packet one-way delay: 116.943 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 19.64 Mbit/s
95th percentile per-packet one-way delay: 117.082 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 18.19 Mbit/s
95th percentile per-packet one-way delay: 115.533 ms
Loss rate: 0.20%
```

Run 3: Report of TCP Cubic — Data Link

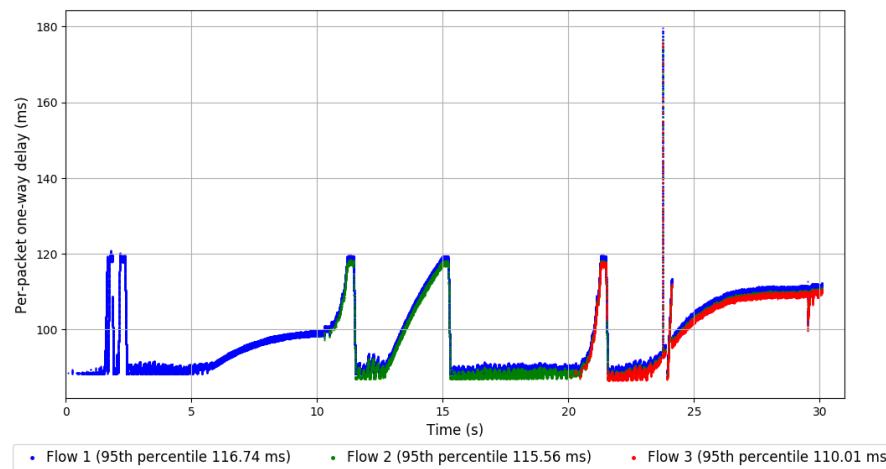
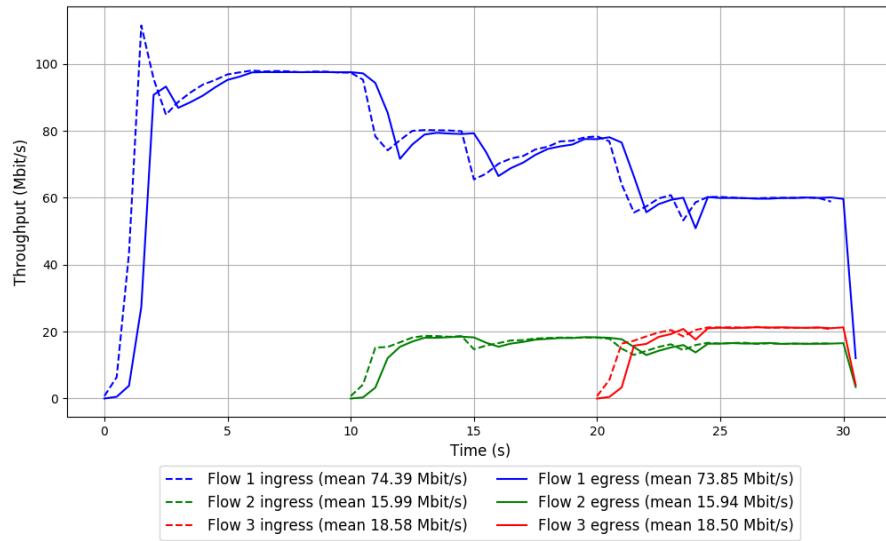


Run 4: Statistics of TCP Cubic

```
Start at: 2019-02-05 08:42:53
End at: 2019-02-05 08:43:23
Local clock offset: -0.067 ms
Remote clock offset: 6.649 ms

# Below is generated by plot.py at 2019-02-05 09:37:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.63 Mbit/s
95th percentile per-packet one-way delay: 116.251 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 73.85 Mbit/s
95th percentile per-packet one-way delay: 116.741 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 115.560 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 18.50 Mbit/s
95th percentile per-packet one-way delay: 110.007 ms
Loss rate: 0.19%
```

Run 4: Report of TCP Cubic — Data Link

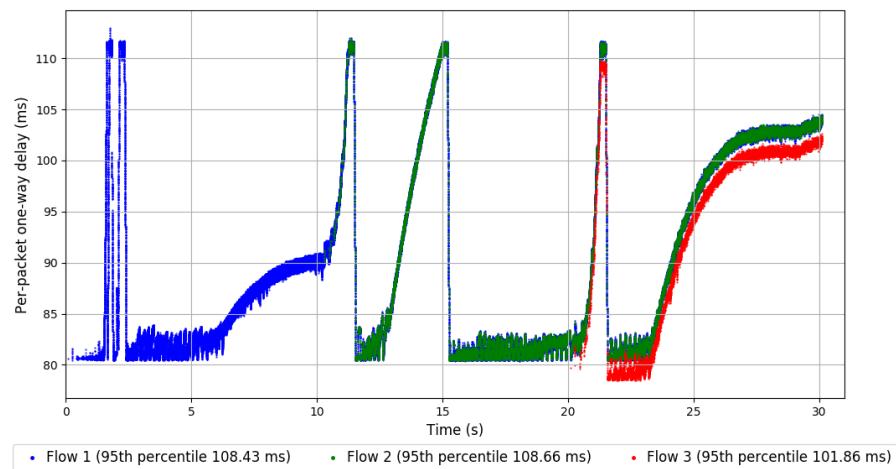
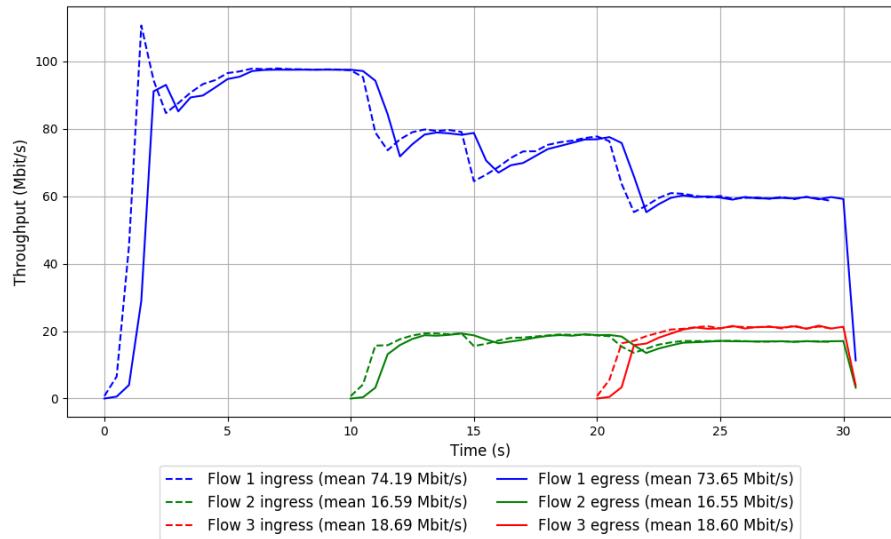


Run 5: Statistics of TCP Cubic

```
Start at: 2019-02-05 09:09:31
End at: 2019-02-05 09:10:01
Local clock offset: -8.187 ms
Remote clock offset: -1.896 ms

# Below is generated by plot.py at 2019-02-05 09:37:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 108.125 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 73.65 Mbit/s
95th percentile per-packet one-way delay: 108.433 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 16.55 Mbit/s
95th percentile per-packet one-way delay: 108.656 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 18.60 Mbit/s
95th percentile per-packet one-way delay: 101.860 ms
Loss rate: 0.24%
```

Run 5: Report of TCP Cubic — Data Link

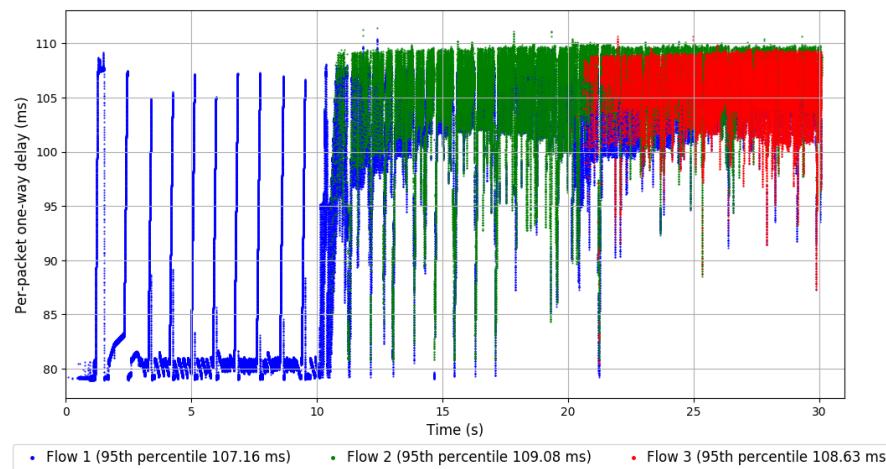
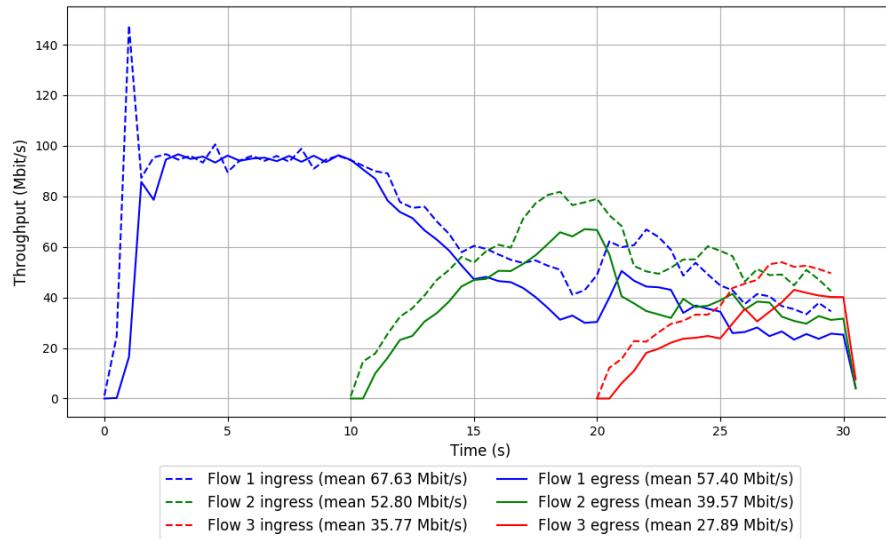


```
Run 1: Statistics of FillP

Start at: 2019-02-05 07:38:02
End at: 2019-02-05 07:38:32
Local clock offset: -7.152 ms
Remote clock offset: 4.077 ms

# Below is generated by plot.py at 2019-02-05 09:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 108.489 ms
Loss rate: 18.83%
-- Flow 1:
Average throughput: 57.40 Mbit/s
95th percentile per-packet one-way delay: 107.156 ms
Loss rate: 15.07%
-- Flow 2:
Average throughput: 39.57 Mbit/s
95th percentile per-packet one-way delay: 109.079 ms
Loss rate: 24.97%
-- Flow 3:
Average throughput: 27.89 Mbit/s
95th percentile per-packet one-way delay: 108.633 ms
Loss rate: 22.02%
```

Run 1: Report of FillP — Data Link

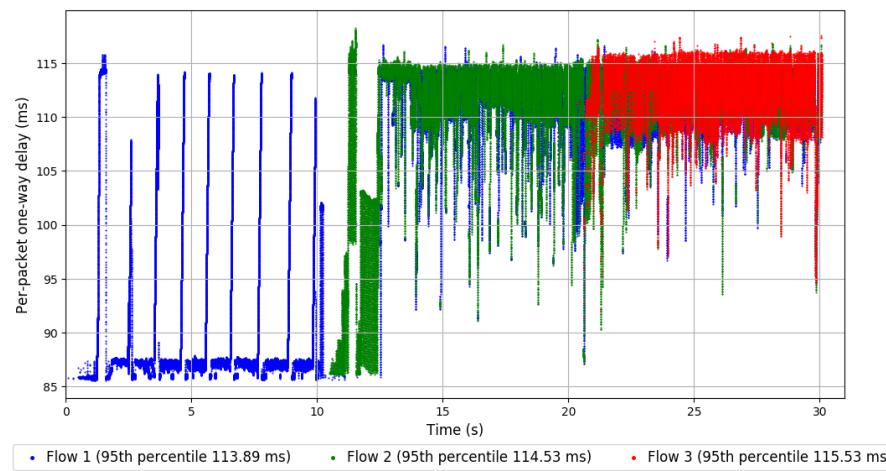
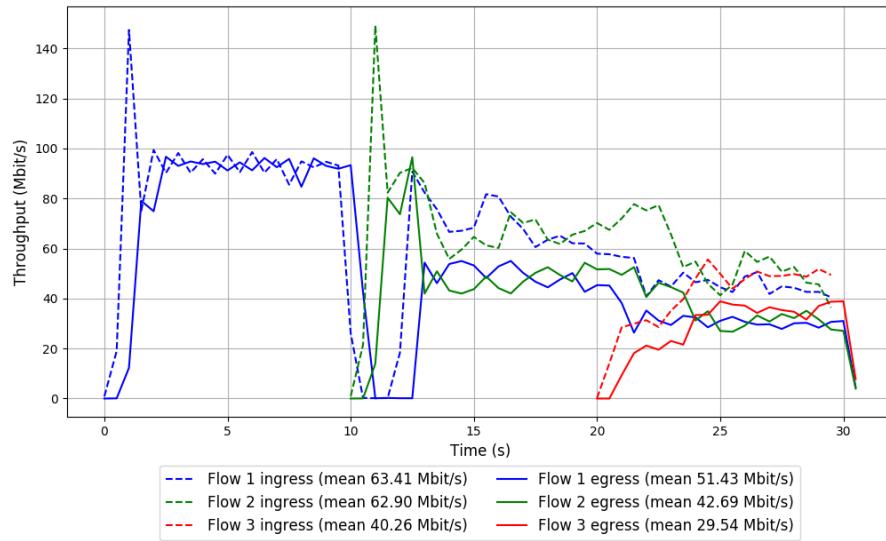


Run 2: Statistics of FillP

```
Start at: 2019-02-05 08:04:46
End at: 2019-02-05 08:05:16
Local clock offset: -2.836 ms
Remote clock offset: 5.696 ms

# Below is generated by plot.py at 2019-02-05 09:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 114.391 ms
Loss rate: 24.41%
-- Flow 1:
Average throughput: 51.43 Mbit/s
95th percentile per-packet one-way delay: 113.885 ms
Loss rate: 18.84%
-- Flow 2:
Average throughput: 42.69 Mbit/s
95th percentile per-packet one-way delay: 114.526 ms
Loss rate: 32.13%
-- Flow 3:
Average throughput: 29.54 Mbit/s
95th percentile per-packet one-way delay: 115.529 ms
Loss rate: 26.61%
```

Run 2: Report of FillP — Data Link

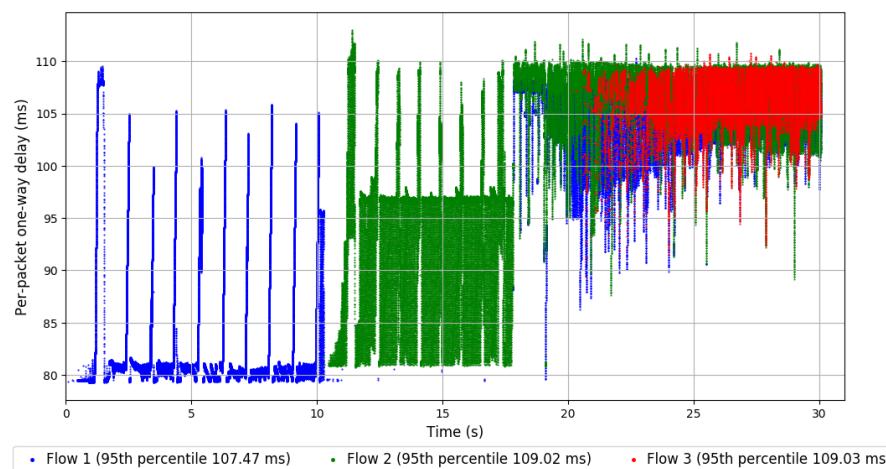
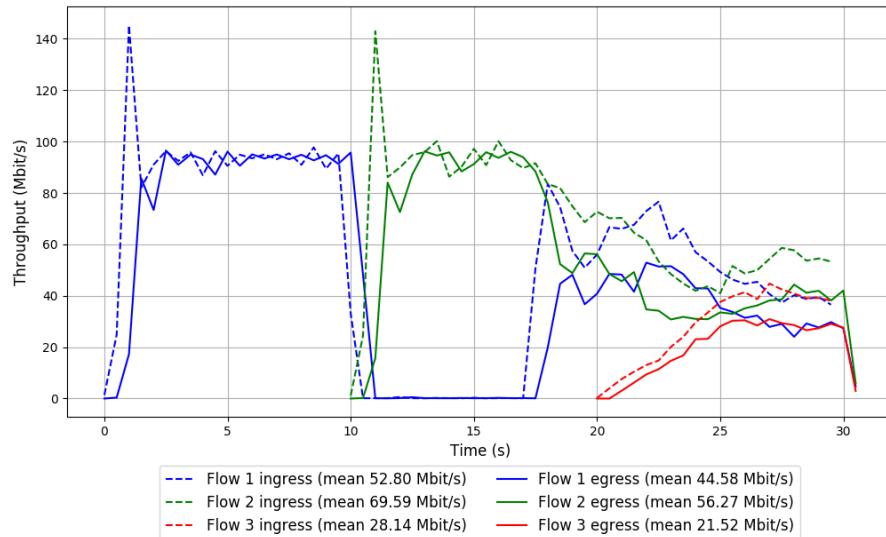


Run 3: Statistics of FillP

```
Start at: 2019-02-05 08:31:24
End at: 2019-02-05 08:31:54
Local clock offset: -0.734 ms
Remote clock offset: 0.665 ms

# Below is generated by plot.py at 2019-02-05 09:38:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.18 Mbit/s
95th percentile per-packet one-way delay: 108.700 ms
Loss rate: 17.70%
-- Flow 1:
Average throughput: 44.58 Mbit/s
95th percentile per-packet one-way delay: 107.465 ms
Loss rate: 15.50%
-- Flow 2:
Average throughput: 56.27 Mbit/s
95th percentile per-packet one-way delay: 109.018 ms
Loss rate: 19.04%
-- Flow 3:
Average throughput: 21.52 Mbit/s
95th percentile per-packet one-way delay: 109.033 ms
Loss rate: 23.53%
```

Run 3: Report of FillP — Data Link

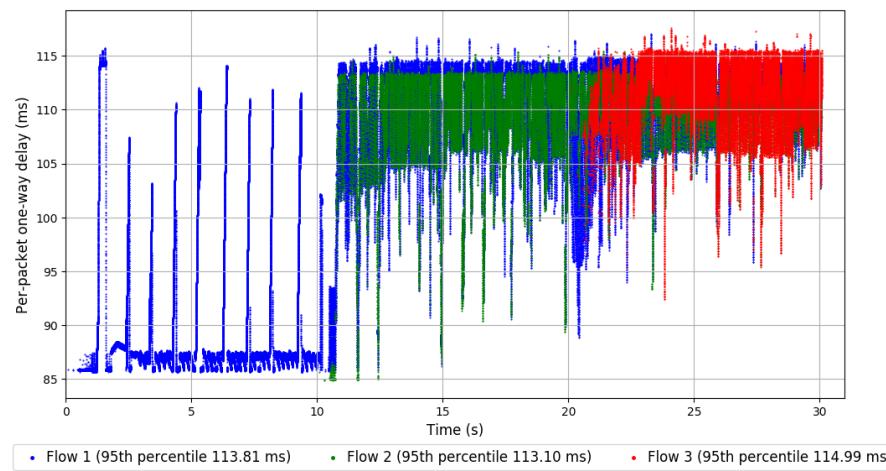
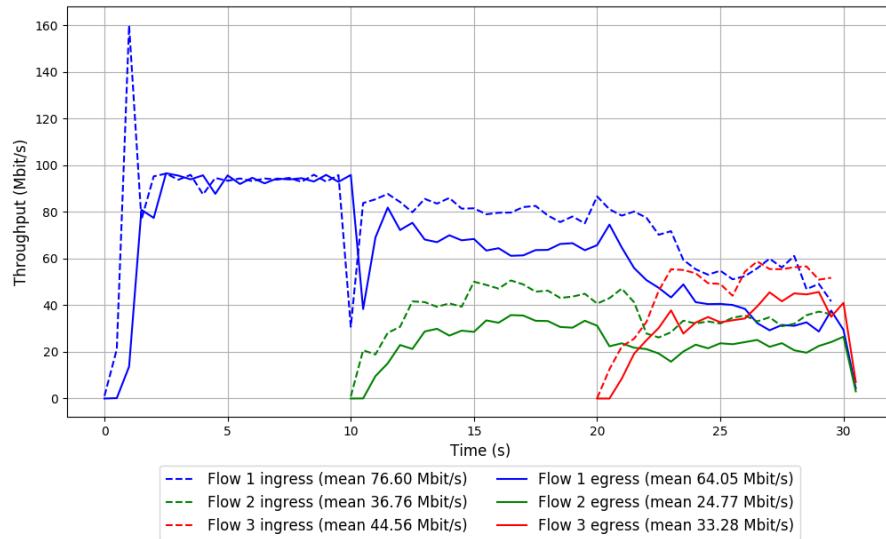


Run 4: Statistics of FillP

```
Start at: 2019-02-05 08:57:59
End at: 2019-02-05 08:58:29
Local clock offset: -6.524 ms
Remote clock offset: 3.913 ms

# Below is generated by plot.py at 2019-02-05 09:38:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 113.950 ms
Loss rate: 20.89%
-- Flow 1:
Average throughput: 64.05 Mbit/s
95th percentile per-packet one-way delay: 113.805 ms
Loss rate: 16.31%
-- Flow 2:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 113.098 ms
Loss rate: 32.53%
-- Flow 3:
Average throughput: 33.28 Mbit/s
95th percentile per-packet one-way delay: 114.992 ms
Loss rate: 25.32%
```

Run 4: Report of FillP — Data Link

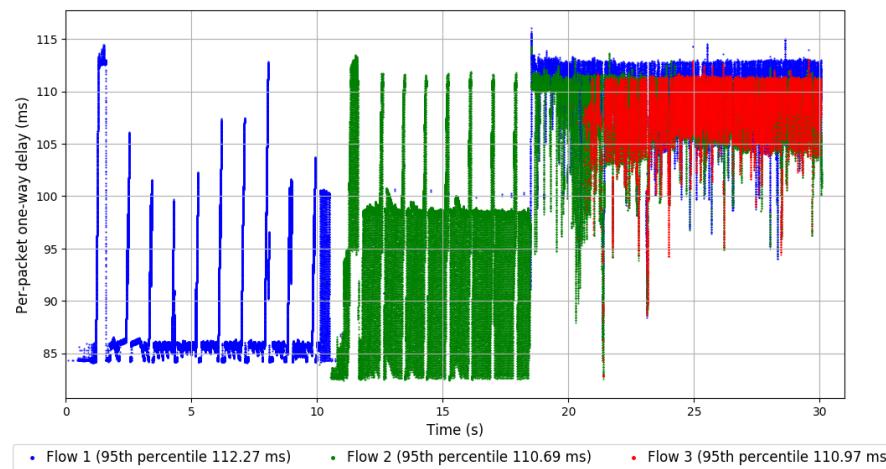
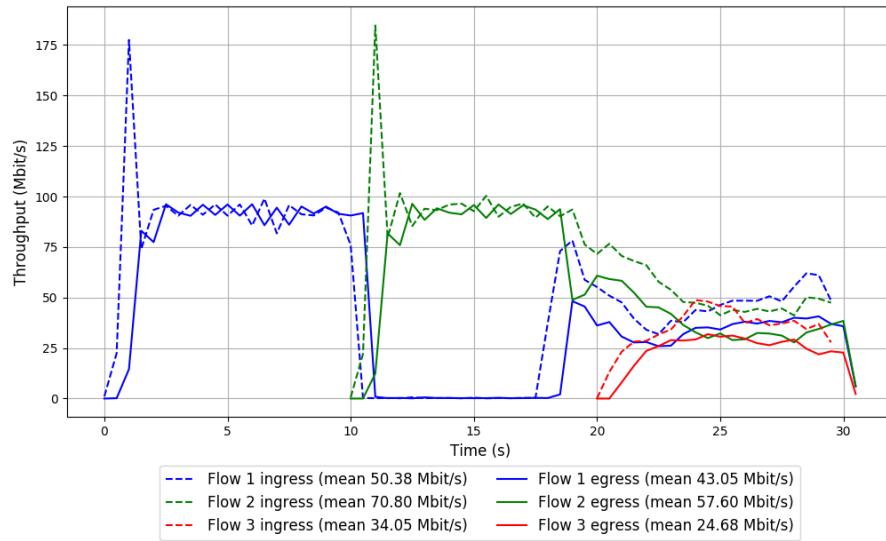


```
Run 5: Statistics of FillP
```

```
Start at: 2019-02-05 09:24:38
End at: 2019-02-05 09:25:08
Local clock offset: -9.895 ms
Remote clock offset: 1.979 ms

# Below is generated by plot.py at 2019-02-05 09:38:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.56 Mbit/s
95th percentile per-packet one-way delay: 111.613 ms
Loss rate: 17.64%
-- Flow 1:
Average throughput: 43.05 Mbit/s
95th percentile per-packet one-way delay: 112.268 ms
Loss rate: 14.56%
-- Flow 2:
Average throughput: 57.60 Mbit/s
95th percentile per-packet one-way delay: 110.694 ms
Loss rate: 18.58%
-- Flow 3:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 110.973 ms
Loss rate: 27.50%
```

Run 5: Report of FillP — Data Link

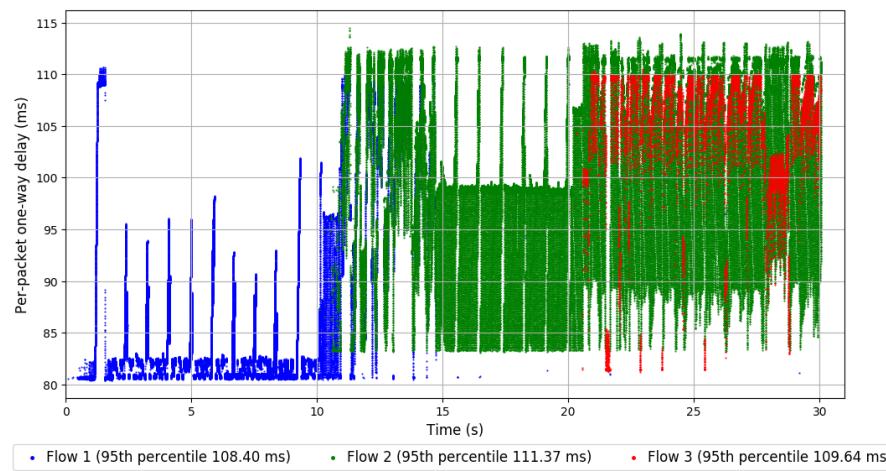
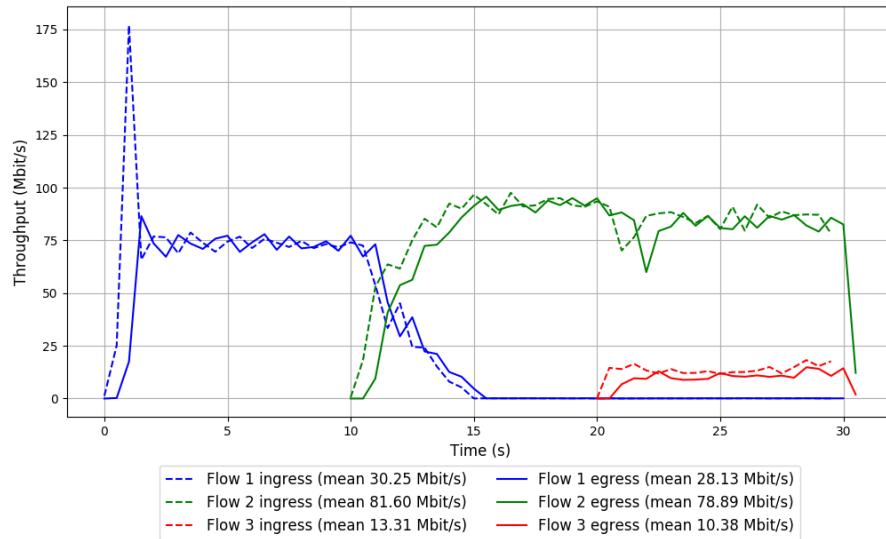


```
Run 1: Statistics of FillP-Sheep
```

```
Start at: 2019-02-05 07:40:38
End at: 2019-02-05 07:41:08
Local clock offset: -7.999 ms
Remote clock offset: 4.461 ms

# Below is generated by plot.py at 2019-02-05 09:38:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.01 Mbit/s
95th percentile per-packet one-way delay: 111.012 ms
Loss rate: 5.41%
-- Flow 1:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 108.402 ms
Loss rate: 6.95%
-- Flow 2:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 111.370 ms
Loss rate: 3.22%
-- Flow 3:
Average throughput: 10.38 Mbit/s
95th percentile per-packet one-way delay: 109.645 ms
Loss rate: 21.91%
```

Run 1: Report of FillP-Sheep — Data Link

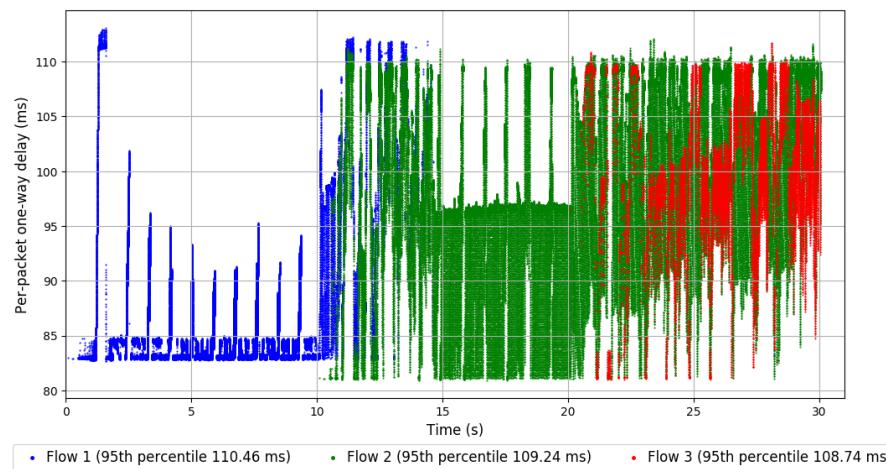
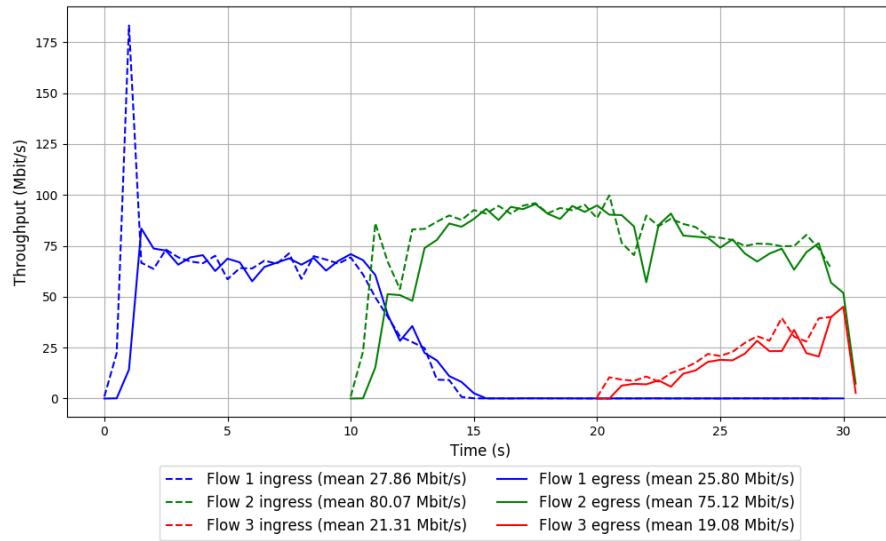


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-02-05 08:07:23
End at: 2019-02-05 08:07:53
Local clock offset: -1.757 ms
Remote clock offset: 1.879 ms

# Below is generated by plot.py at 2019-02-05 09:38:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 109.256 ms
Loss rate: 6.82%
-- Flow 1:
Average throughput: 25.80 Mbit/s
95th percentile per-packet one-way delay: 110.464 ms
Loss rate: 7.34%
-- Flow 2:
Average throughput: 75.12 Mbit/s
95th percentile per-packet one-way delay: 109.237 ms
Loss rate: 6.07%
-- Flow 3:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 108.739 ms
Loss rate: 10.41%
```

Run 2: Report of FillP-Sheep — Data Link

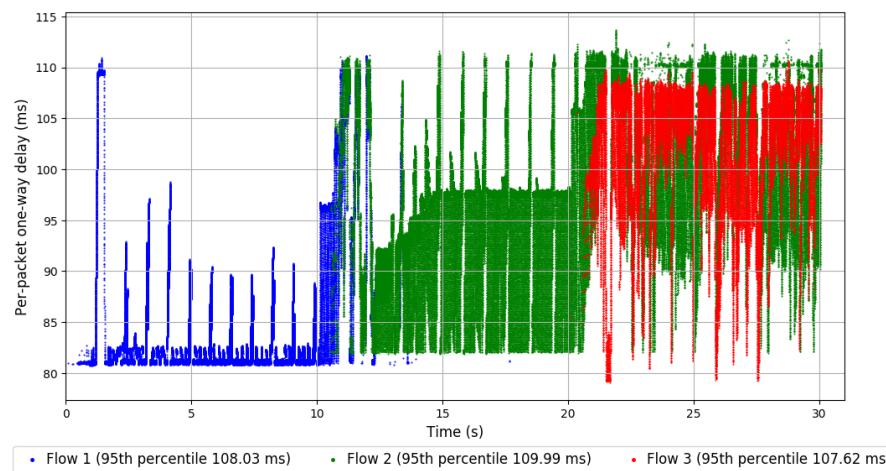
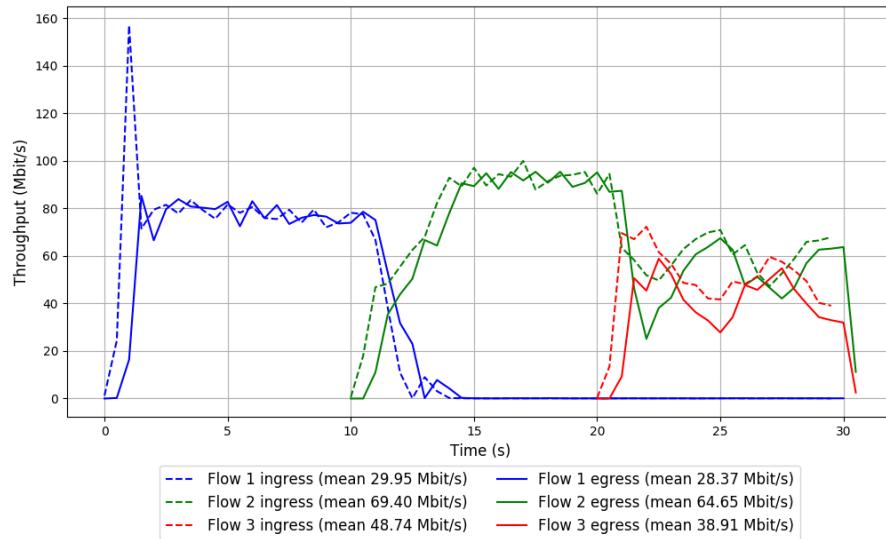


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-02-05 08:34:00
End at: 2019-02-05 08:34:30
Local clock offset: -0.595 ms
Remote clock offset: 0.653 ms

# Below is generated by plot.py at 2019-02-05 09:39:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.25 Mbit/s
95th percentile per-packet one-way delay: 109.164 ms
Loss rate: 8.56%
-- Flow 1:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 108.025 ms
Loss rate: 5.20%
-- Flow 2:
Average throughput: 64.65 Mbit/s
95th percentile per-packet one-way delay: 109.987 ms
Loss rate: 6.72%
-- Flow 3:
Average throughput: 38.91 Mbit/s
95th percentile per-packet one-way delay: 107.618 ms
Loss rate: 20.04%
```

Run 3: Report of FillP-Sheep — Data Link

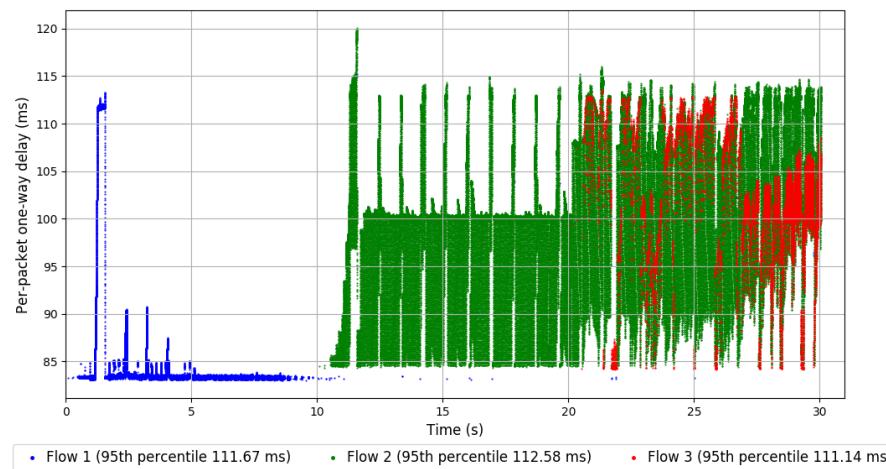
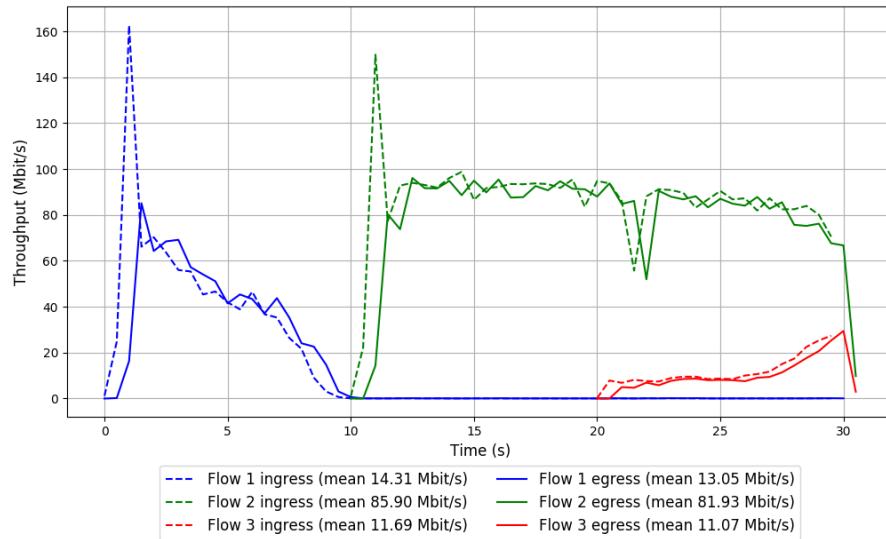


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-02-05 09:00:35
End at: 2019-02-05 09:01:05
Local clock offset: -7.268 ms
Remote clock offset: 2.822 ms

# Below is generated by plot.py at 2019-02-05 09:39:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.24 Mbit/s
95th percentile per-packet one-way delay: 112.335 ms
Loss rate: 5.33%
-- Flow 1:
Average throughput: 13.05 Mbit/s
95th percentile per-packet one-way delay: 111.675 ms
Loss rate: 8.74%
-- Flow 2:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 112.582 ms
Loss rate: 4.49%
-- Flow 3:
Average throughput: 11.07 Mbit/s
95th percentile per-packet one-way delay: 111.137 ms
Loss rate: 5.34%
```

Run 4: Report of FillP-Sheep — Data Link

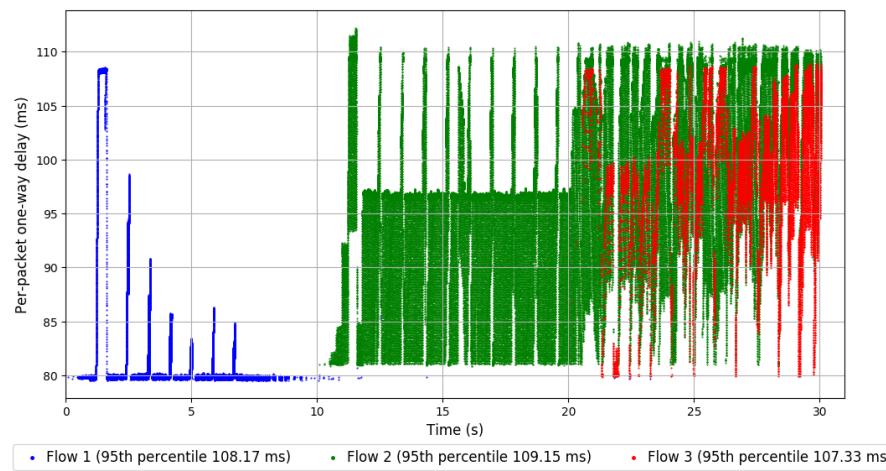
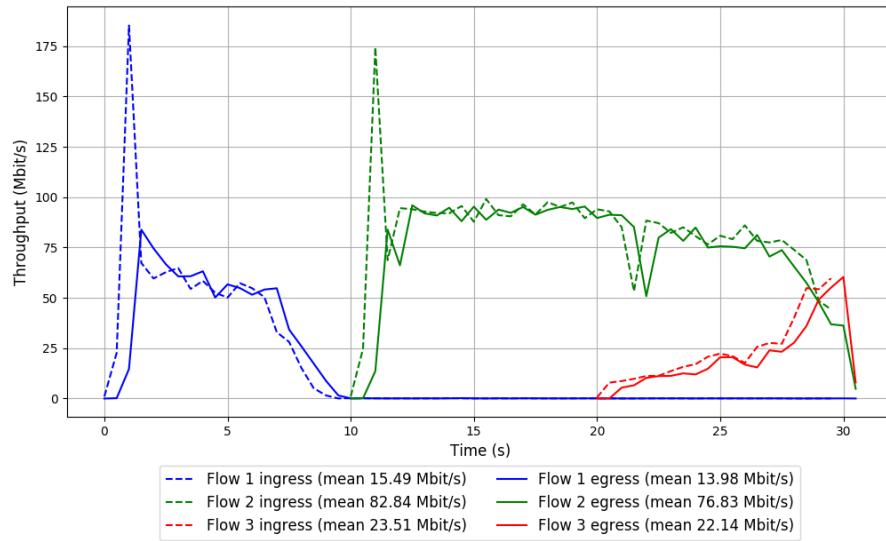


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-02-05 09:27:13
End at: 2019-02-05 09:27:44
Local clock offset: -10.12 ms
Remote clock offset: -0.601 ms

# Below is generated by plot.py at 2019-02-05 09:39:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.49 Mbit/s
95th percentile per-packet one-way delay: 108.896 ms
Loss rate: 7.51%
-- Flow 1:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 108.171 ms
Loss rate: 9.69%
-- Flow 2:
Average throughput: 76.83 Mbit/s
95th percentile per-packet one-way delay: 109.150 ms
Loss rate: 7.16%
-- Flow 3:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 107.334 ms
Loss rate: 5.63%
```

Run 5: Report of FillP-Sheep — Data Link

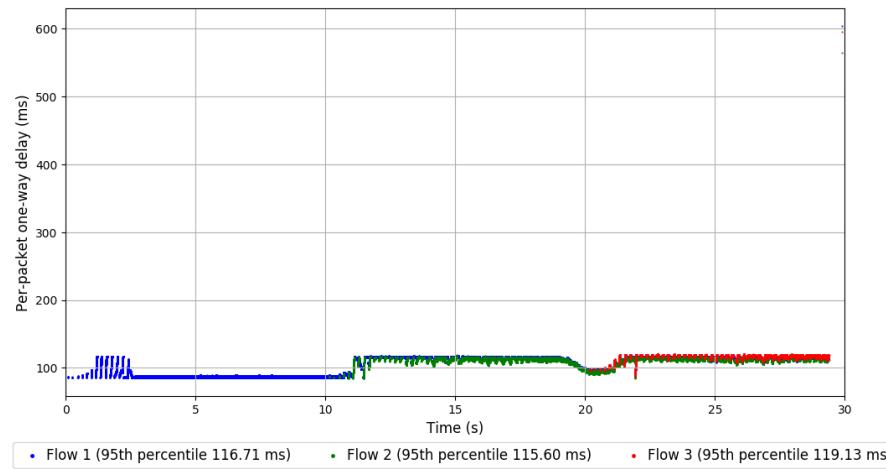
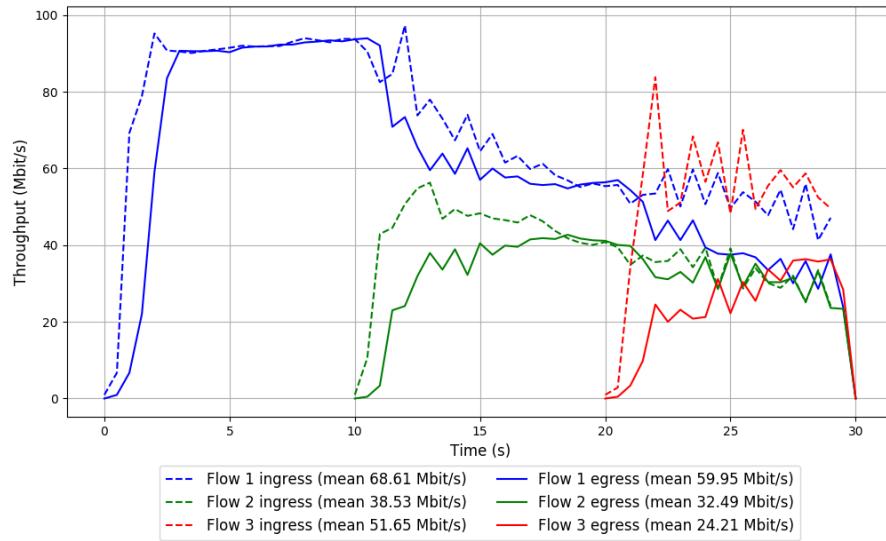


Run 1: Statistics of Indigo

```
Start at: 2019-02-05 07:21:35
End at: 2019-02-05 07:22:05
Local clock offset: -6.537 ms
Remote clock offset: 10.221 ms

# Below is generated by plot.py at 2019-02-05 09:39:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.36 Mbit/s
95th percentile per-packet one-way delay: 117.287 ms
Loss rate: 18.20%
-- Flow 1:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 116.709 ms
Loss rate: 11.70%
-- Flow 2:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 115.604 ms
Loss rate: 14.13%
-- Flow 3:
Average throughput: 24.21 Mbit/s
95th percentile per-packet one-way delay: 119.128 ms
Loss rate: 51.58%
```

Run 1: Report of Indigo — Data Link

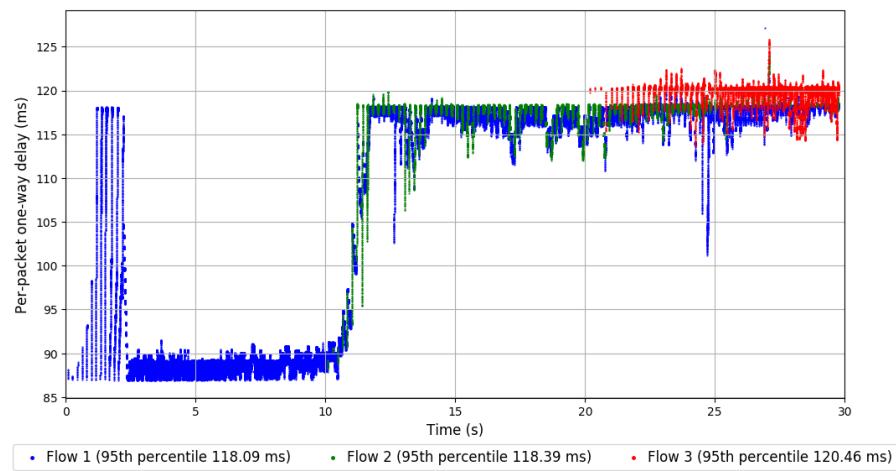
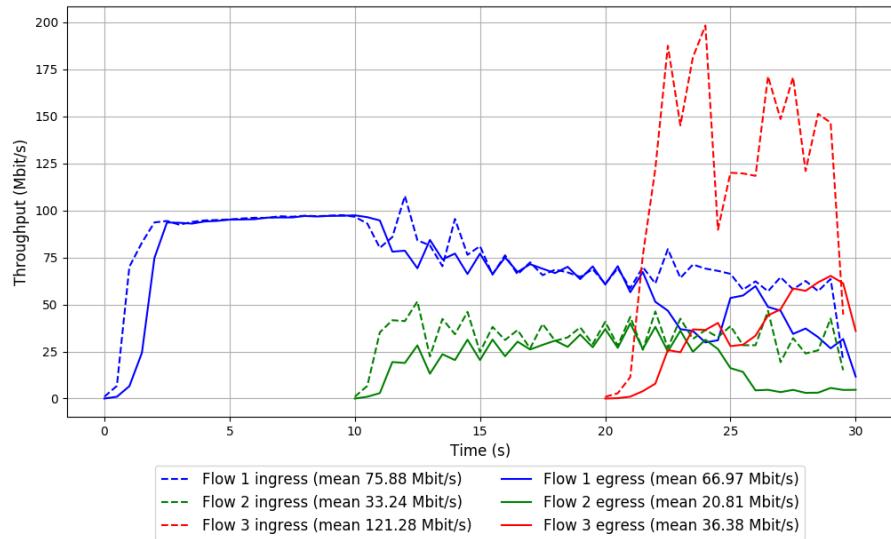


Run 2: Statistics of Indigo

```
Start at: 2019-02-05 07:48:15
End at: 2019-02-05 07:48:45
Local clock offset: -6.879 ms
Remote clock offset: 7.712 ms

# Below is generated by plot.py at 2019-02-05 09:39:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.49 Mbit/s
95th percentile per-packet one-way delay: 120.210 ms
Loss rate: 32.47%
-- Flow 1:
Average throughput: 66.97 Mbit/s
95th percentile per-packet one-way delay: 118.094 ms
Loss rate: 11.65%
-- Flow 2:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 118.385 ms
Loss rate: 37.29%
-- Flow 3:
Average throughput: 36.38 Mbit/s
95th percentile per-packet one-way delay: 120.458 ms
Loss rate: 70.00%
```

Run 2: Report of Indigo — Data Link

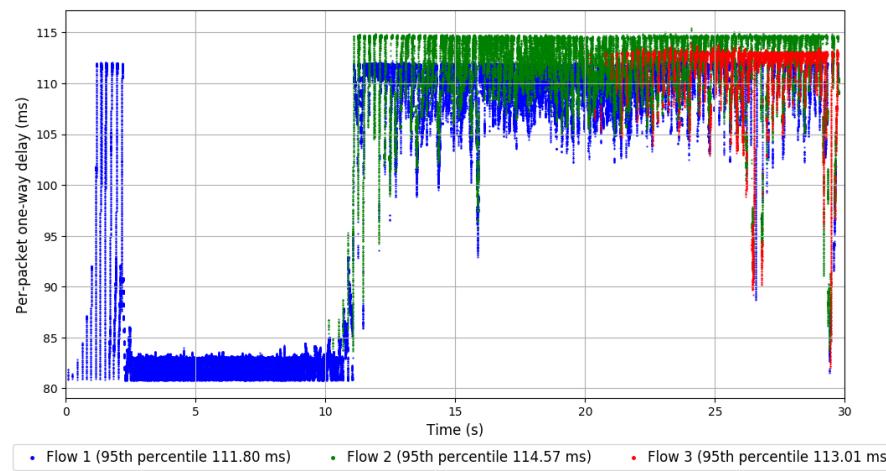
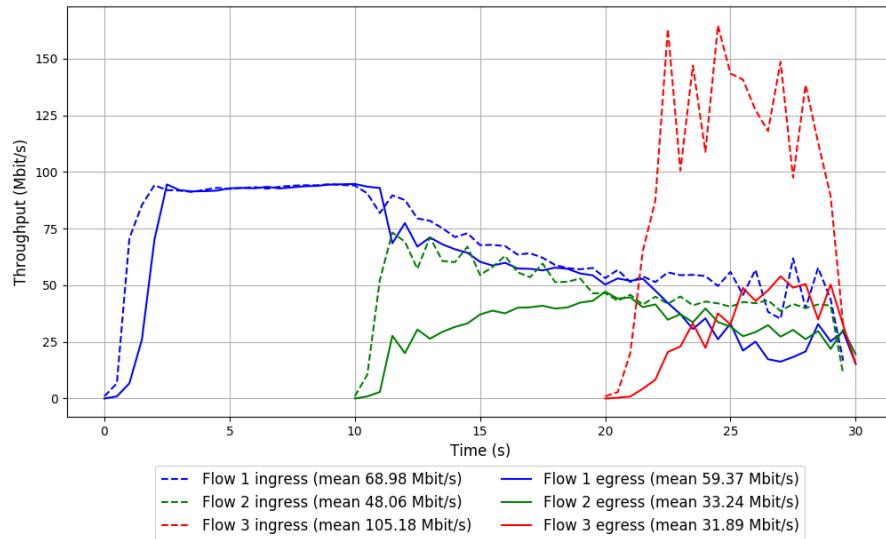


Run 3: Statistics of Indigo

```
Start at: 2019-02-05 08:14:57
End at: 2019-02-05 08:15:27
Local clock offset: -1.817 ms
Remote clock offset: 1.852 ms

# Below is generated by plot.py at 2019-02-05 09:39:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.61 Mbit/s
95th percentile per-packet one-way delay: 114.242 ms
Loss rate: 31.90%
-- Flow 1:
Average throughput: 59.37 Mbit/s
95th percentile per-packet one-way delay: 111.804 ms
Loss rate: 13.84%
-- Flow 2:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 114.574 ms
Loss rate: 30.76%
-- Flow 3:
Average throughput: 31.89 Mbit/s
95th percentile per-packet one-way delay: 113.014 ms
Loss rate: 69.68%
```

Run 3: Report of Indigo — Data Link

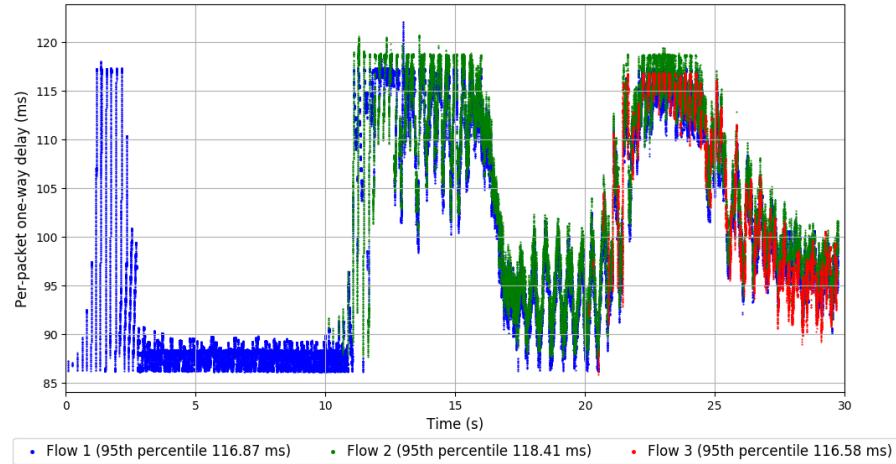
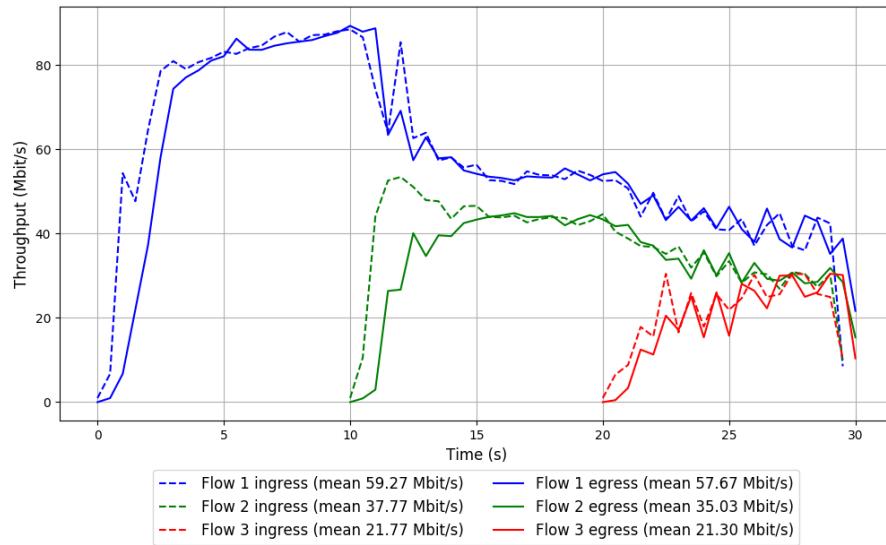


Run 4: Statistics of Indigo

```
Start at: 2019-02-05 08:41:34
End at: 2019-02-05 08:42:04
Local clock offset: -0.151 ms
Remote clock offset: 6.837 ms

# Below is generated by plot.py at 2019-02-05 09:39:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 117.081 ms
Loss rate: 3.86%
-- Flow 1:
Average throughput: 57.67 Mbit/s
95th percentile per-packet one-way delay: 116.868 ms
Loss rate: 2.66%
-- Flow 2:
Average throughput: 35.03 Mbit/s
95th percentile per-packet one-way delay: 118.406 ms
Loss rate: 7.19%
-- Flow 3:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 116.580 ms
Loss rate: 2.13%
```

Run 4: Report of Indigo — Data Link

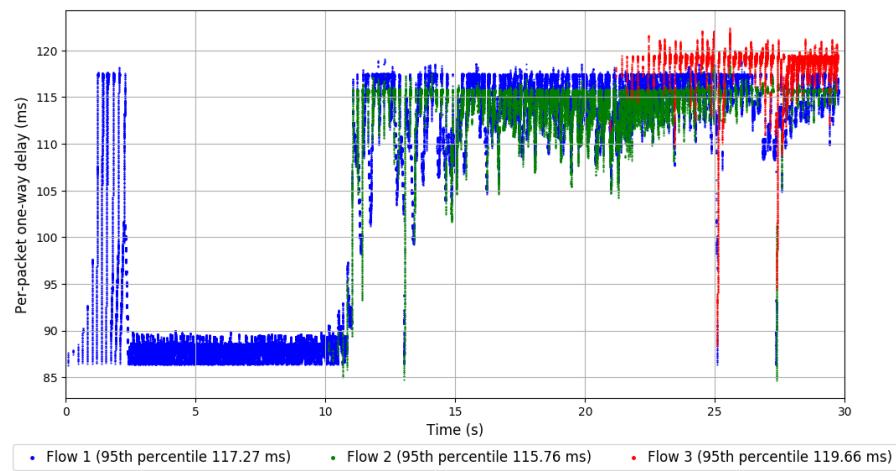
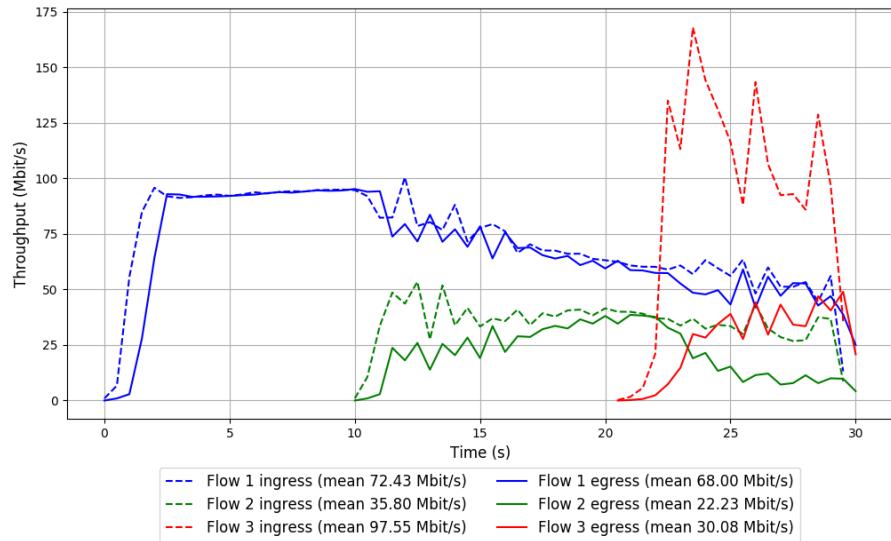


Run 5: Statistics of Indigo

```
Start at: 2019-02-05 09:08:12
End at: 2019-02-05 09:08:42
Local clock offset: -7.999 ms
Remote clock offset: 4.543 ms

# Below is generated by plot.py at 2019-02-05 09:40:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.54 Mbit/s
95th percentile per-packet one-way delay: 119.204 ms
Loss rate: 26.59%
-- Flow 1:
Average throughput: 68.00 Mbit/s
95th percentile per-packet one-way delay: 117.268 ms
Loss rate: 6.03%
-- Flow 2:
Average throughput: 22.23 Mbit/s
95th percentile per-packet one-way delay: 115.764 ms
Loss rate: 37.81%
-- Flow 3:
Average throughput: 30.08 Mbit/s
95th percentile per-packet one-way delay: 119.663 ms
Loss rate: 69.14%
```

Run 5: Report of Indigo — Data Link

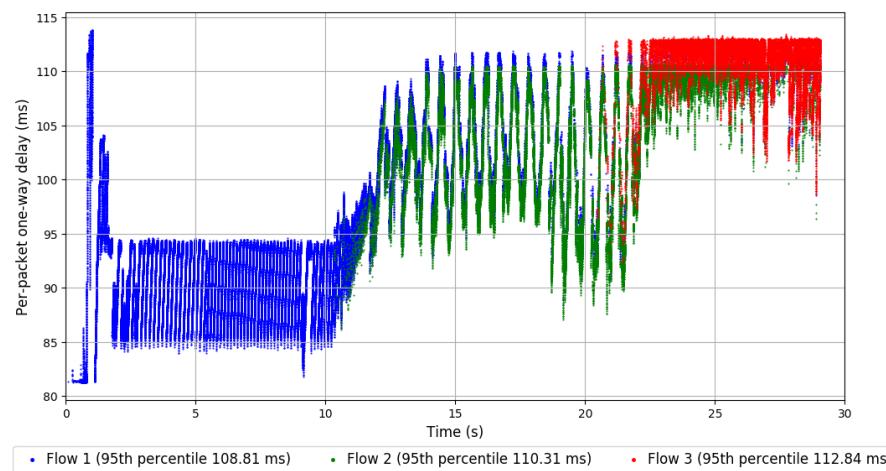
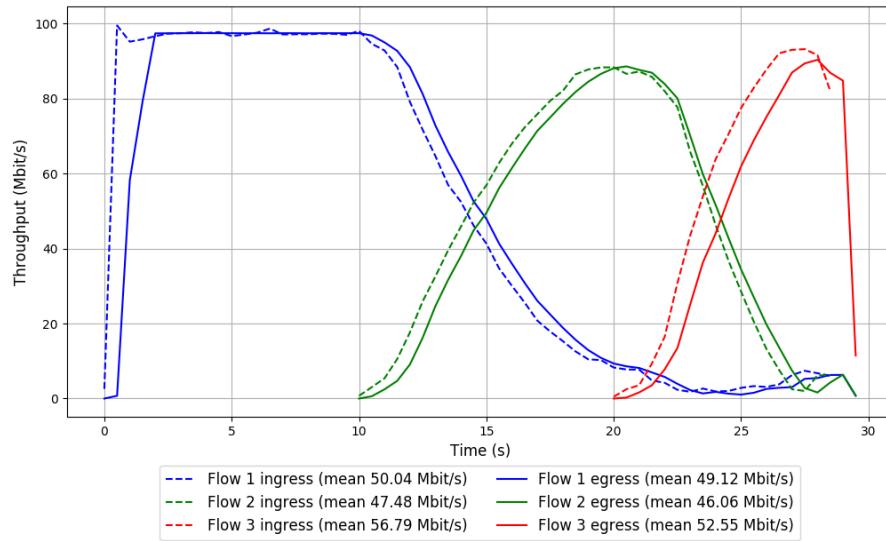


```
Run 1: Statistics of Indigo-MusesC3
```

```
Start at: 2019-02-05 07:45:39
End at: 2019-02-05 07:46:09
Local clock offset: -7.365 ms
Remote clock offset: 3.318 ms

# Below is generated by plot.py at 2019-02-05 09:40:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 112.530 ms
Loss rate: 3.08%
-- Flow 1:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 108.807 ms
Loss rate: 1.74%
-- Flow 2:
Average throughput: 46.06 Mbit/s
95th percentile per-packet one-way delay: 110.315 ms
Loss rate: 2.90%
-- Flow 3:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 112.840 ms
Loss rate: 7.33%
```

Run 1: Report of Indigo-MusesC3 — Data Link

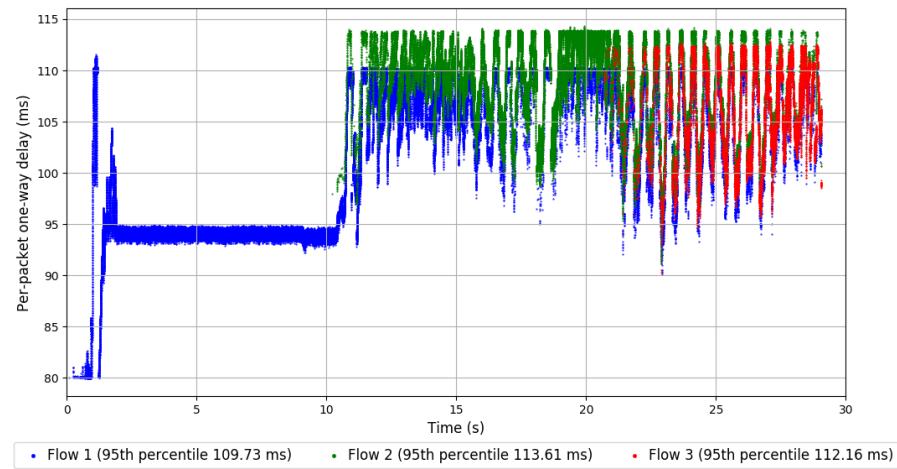
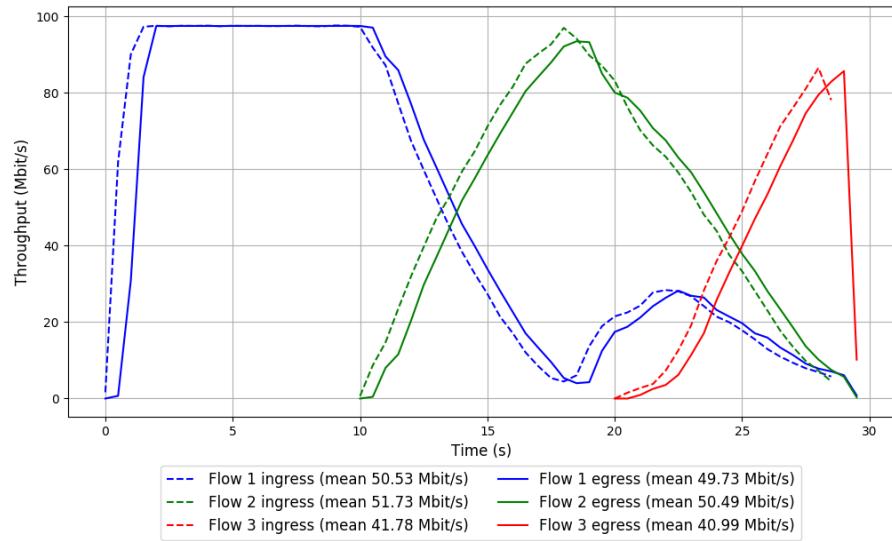


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 08:12:24
End at: 2019-02-05 08:12:54
Local clock offset: -1.257 ms
Remote clock offset: 1.864 ms

# Below is generated by plot.py at 2019-02-05 09:40:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 113.316 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 49.73 Mbit/s
95th percentile per-packet one-way delay: 109.733 ms
Loss rate: 1.51%
-- Flow 2:
Average throughput: 50.49 Mbit/s
95th percentile per-packet one-way delay: 113.615 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 112.155 ms
Loss rate: 2.01%
```

Run 2: Report of Indigo-MusesC3 — Data Link

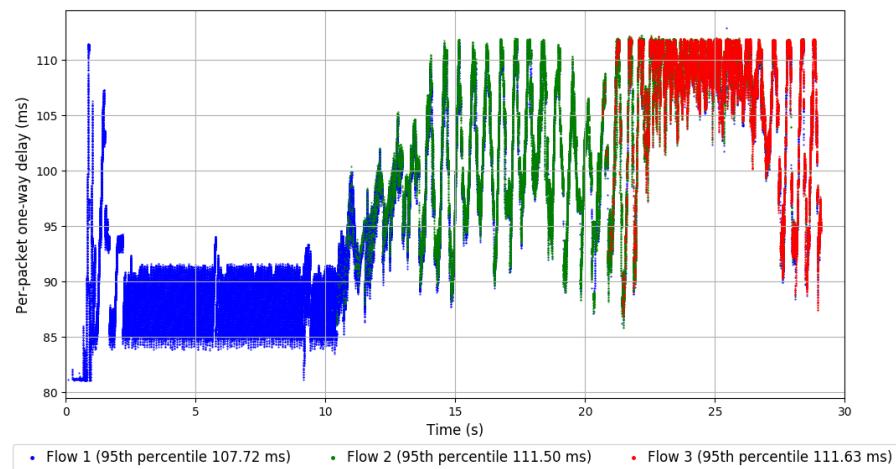
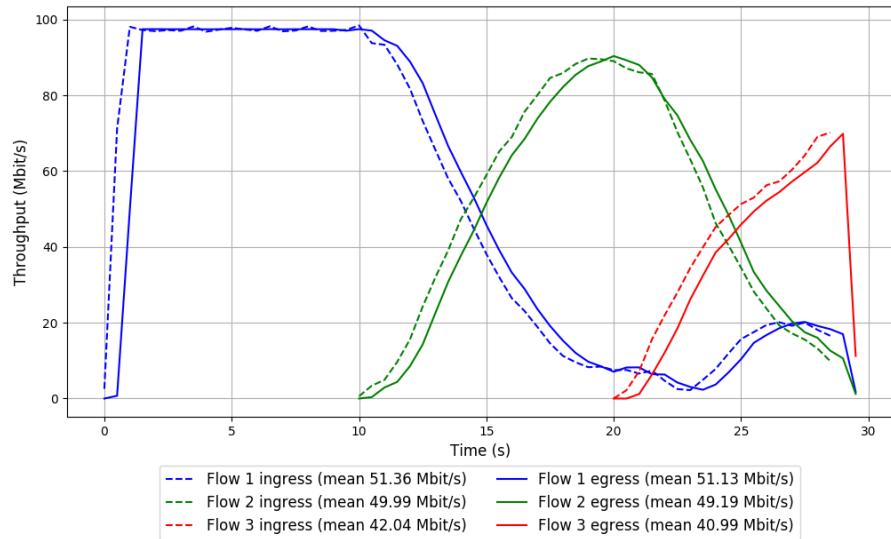


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 08:39:00
End at: 2019-02-05 08:39:30
Local clock offset: -0.299 ms
Remote clock offset: 0.737 ms

# Below is generated by plot.py at 2019-02-05 09:40:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.23 Mbit/s
95th percentile per-packet one-way delay: 111.212 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 51.13 Mbit/s
95th percentile per-packet one-way delay: 107.717 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 49.19 Mbit/s
95th percentile per-packet one-way delay: 111.504 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 111.627 ms
Loss rate: 2.57%
```

Run 3: Report of Indigo-MusesC3 — Data Link

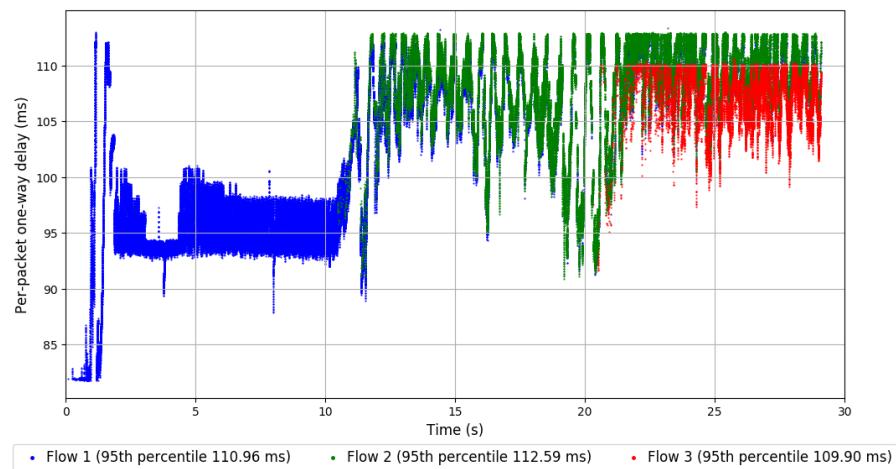
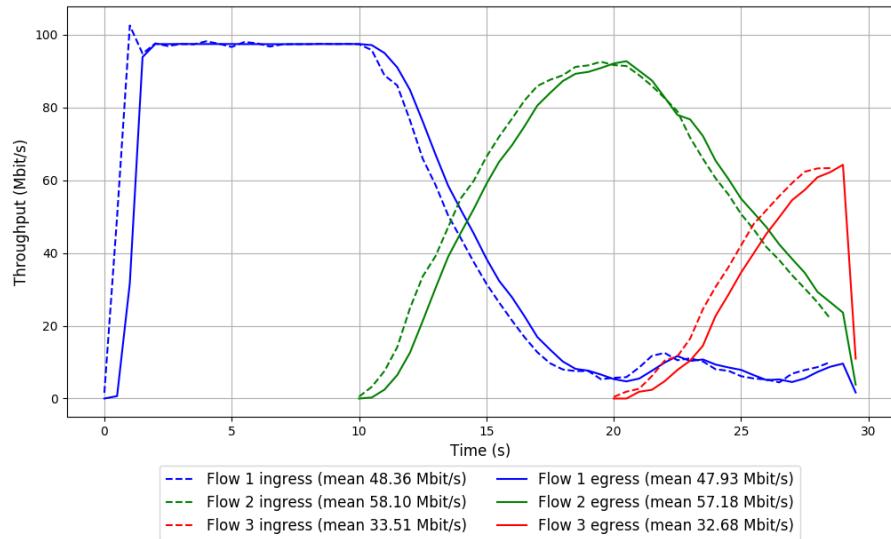


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 09:05:35
End at: 2019-02-05 09:06:05
Local clock offset: -7.544 ms
Remote clock offset: -0.344 ms

# Below is generated by plot.py at 2019-02-05 09:40:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 112.193 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 47.93 Mbit/s
95th percentile per-packet one-way delay: 110.957 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 57.18 Mbit/s
95th percentile per-packet one-way delay: 112.593 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 109.904 ms
Loss rate: 2.35%
```

Run 4: Report of Indigo-MusesC3 — Data Link

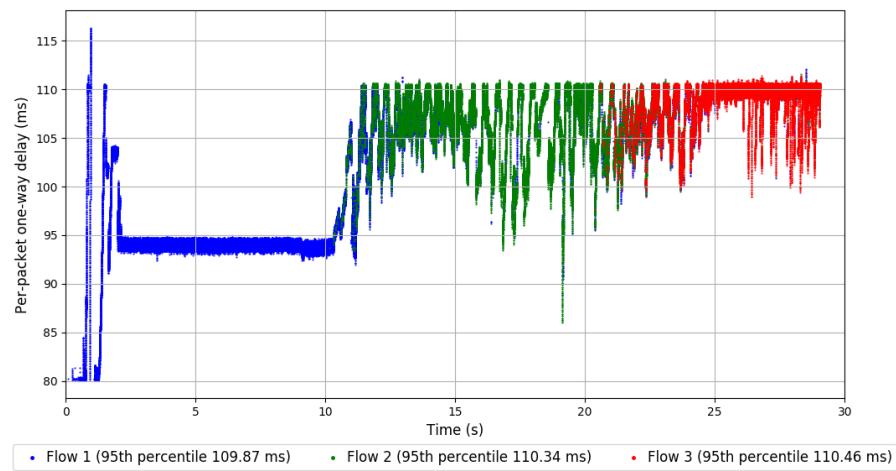
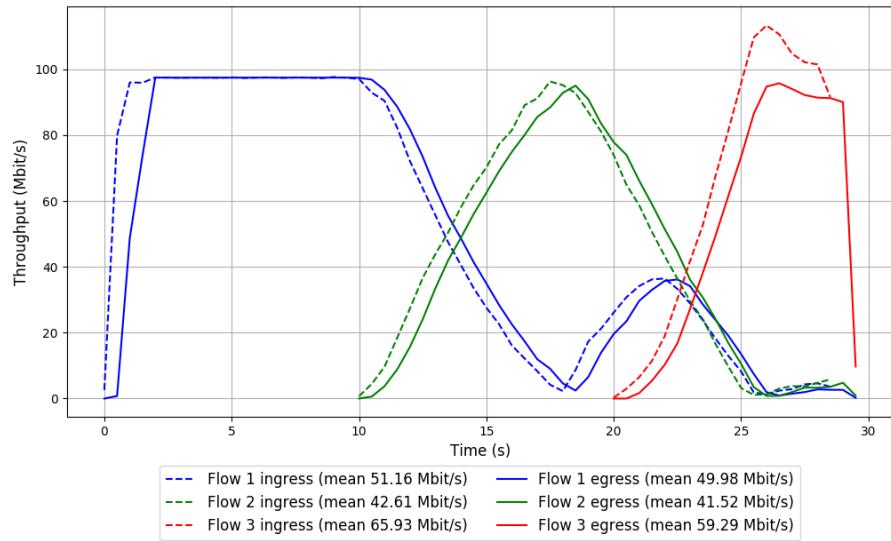


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-02-05 09:32:14
End at: 2019-02-05 09:32:44
Local clock offset: -10.622 ms
Remote clock offset: -0.585 ms

# Below is generated by plot.py at 2019-02-05 09:40:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 110.337 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 49.98 Mbit/s
95th percentile per-packet one-way delay: 109.866 ms
Loss rate: 2.20%
-- Flow 2:
Average throughput: 41.52 Mbit/s
95th percentile per-packet one-way delay: 110.337 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 59.29 Mbit/s
95th percentile per-packet one-way delay: 110.459 ms
Loss rate: 9.93%
```

Run 5: Report of Indigo-MusesC3 — Data Link

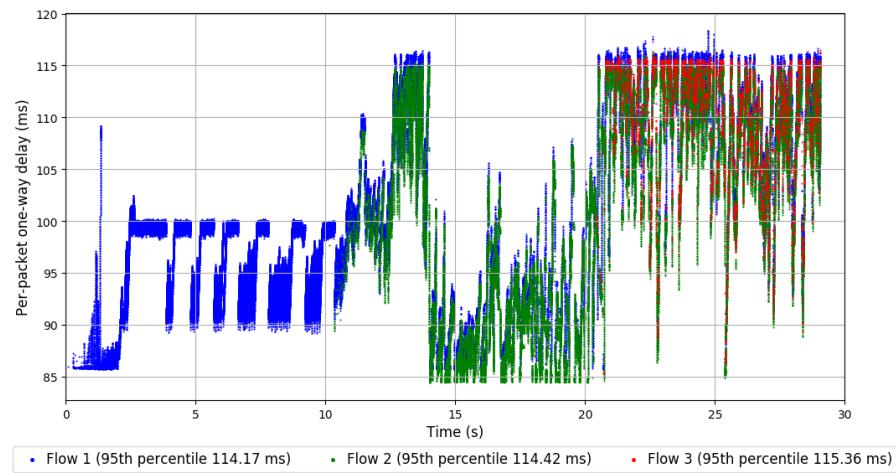
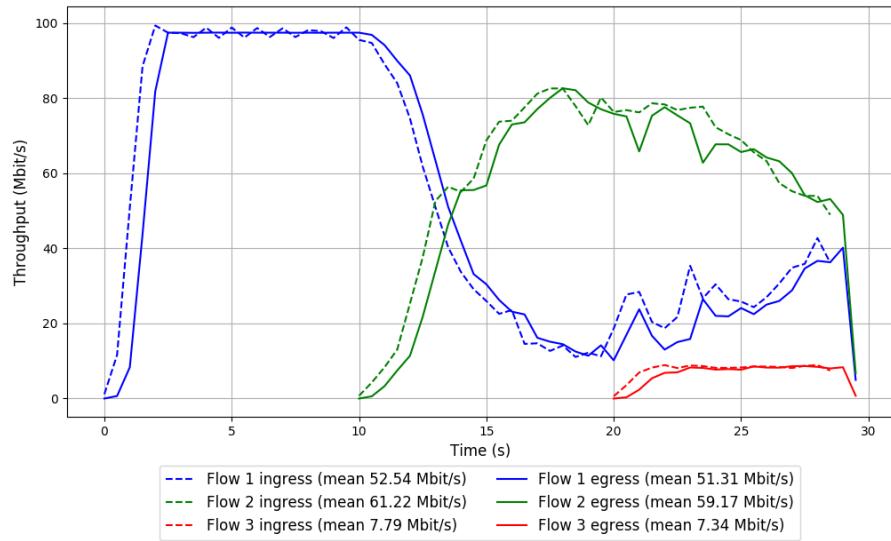


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 07:34:16
End at: 2019-02-05 07:34:46
Local clock offset: -7.053 ms
Remote clock offset: 9.477 ms

# Below is generated by plot.py at 2019-02-05 09:40:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.13 Mbit/s
95th percentile per-packet one-way delay: 114.434 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 51.31 Mbit/s
95th percentile per-packet one-way delay: 114.170 ms
Loss rate: 2.25%
-- Flow 2:
Average throughput: 59.17 Mbit/s
95th percentile per-packet one-way delay: 114.421 ms
Loss rate: 3.25%
-- Flow 3:
Average throughput: 7.34 Mbit/s
95th percentile per-packet one-way delay: 115.356 ms
Loss rate: 5.64%
```

Run 1: Report of Indigo-MusesC5 — Data Link

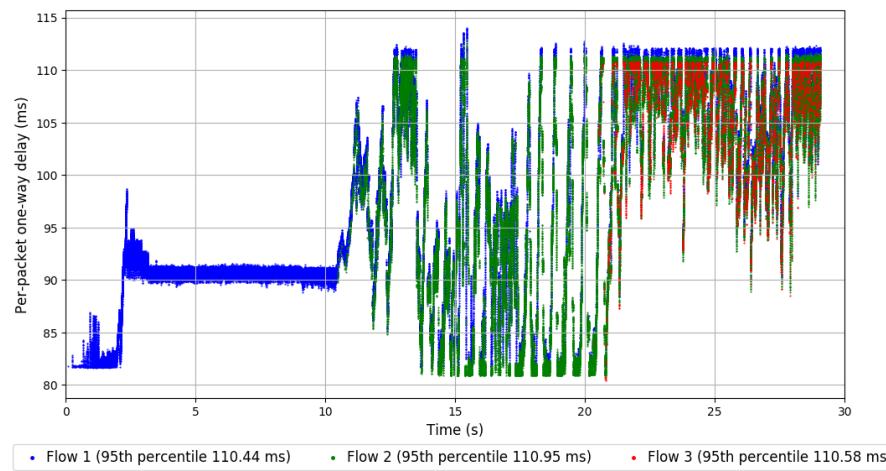
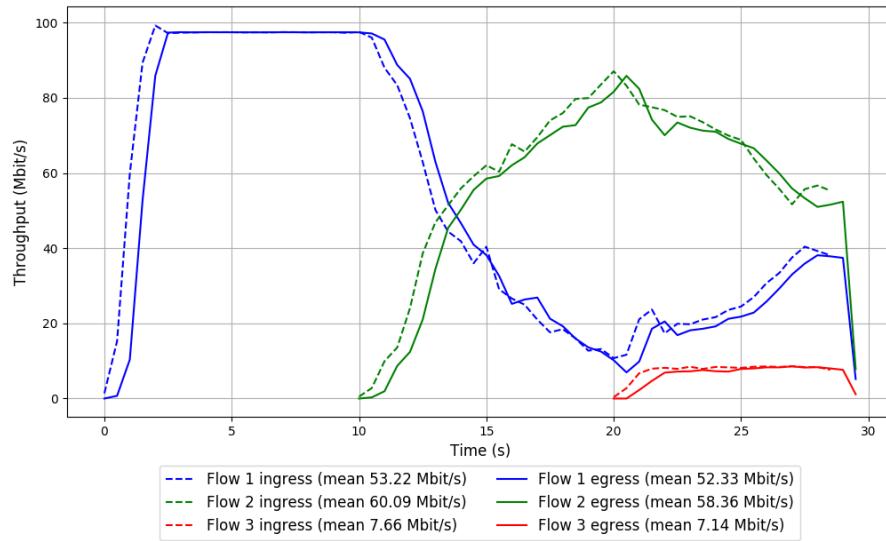


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 08:00:56
End at: 2019-02-05 08:01:26
Local clock offset: -2.561 ms
Remote clock offset: 0.899 ms

# Below is generated by plot.py at 2019-02-05 09:40:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 110.866 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 52.33 Mbit/s
95th percentile per-packet one-way delay: 110.437 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 58.36 Mbit/s
95th percentile per-packet one-way delay: 110.947 ms
Loss rate: 2.78%
-- Flow 3:
Average throughput: 7.14 Mbit/s
95th percentile per-packet one-way delay: 110.577 ms
Loss rate: 6.56%
```

Run 2: Report of Indigo-MusesC5 — Data Link

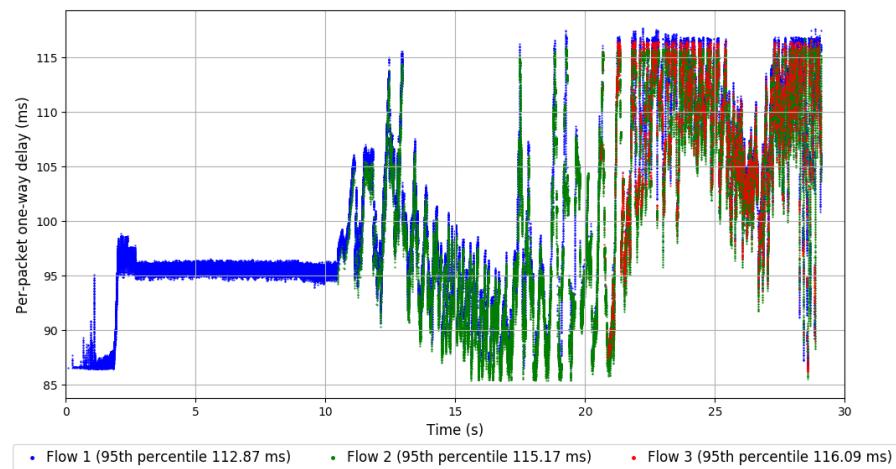
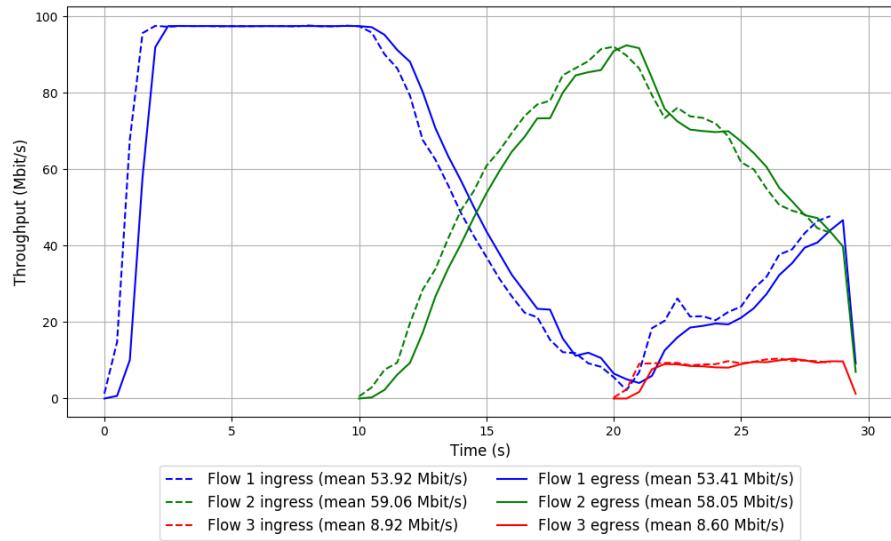


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 08:27:38
End at: 2019-02-05 08:28:08
Local clock offset: -0.208 ms
Remote clock offset: 5.696 ms

# Below is generated by plot.py at 2019-02-05 09:41:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 114.657 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 53.41 Mbit/s
95th percentile per-packet one-way delay: 112.871 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 115.168 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 116.087 ms
Loss rate: 3.37%
```

Run 3: Report of Indigo-MusesC5 — Data Link

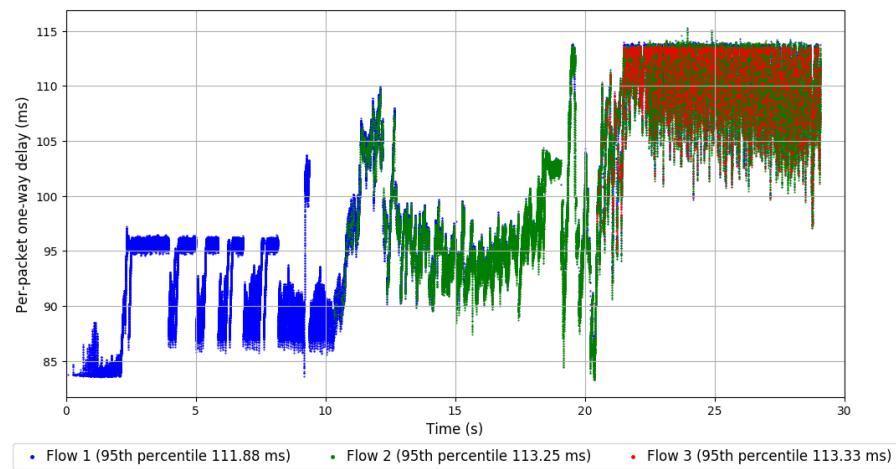
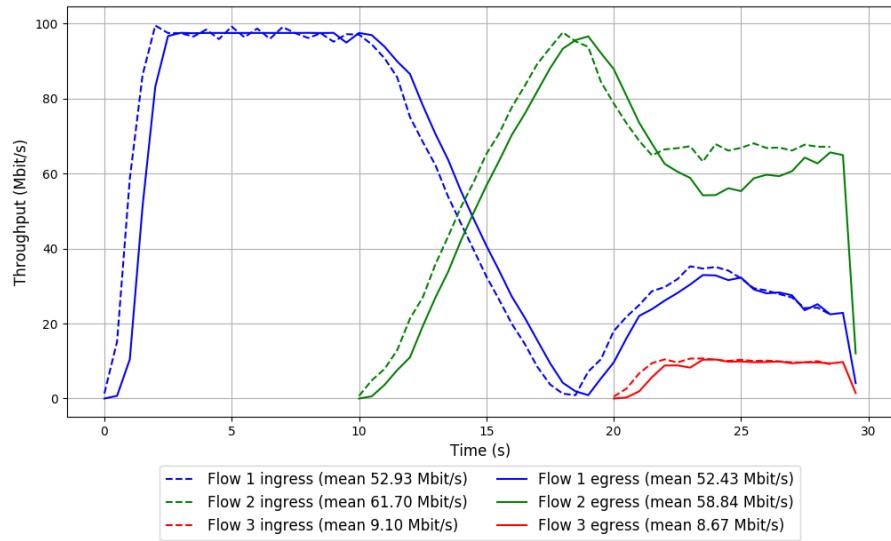


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 08:54:13
End at: 2019-02-05 08:54:43
Local clock offset: -4.416 ms
Remote clock offset: 4.309 ms

# Below is generated by plot.py at 2019-02-05 09:41:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 113.078 ms
Loss rate: 2.48%
-- Flow 1:
Average throughput: 52.43 Mbit/s
95th percentile per-packet one-way delay: 111.883 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 58.84 Mbit/s
95th percentile per-packet one-way delay: 113.255 ms
Loss rate: 4.51%
-- Flow 3:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 113.335 ms
Loss rate: 4.44%
```

Run 4: Report of Indigo-MusesC5 — Data Link

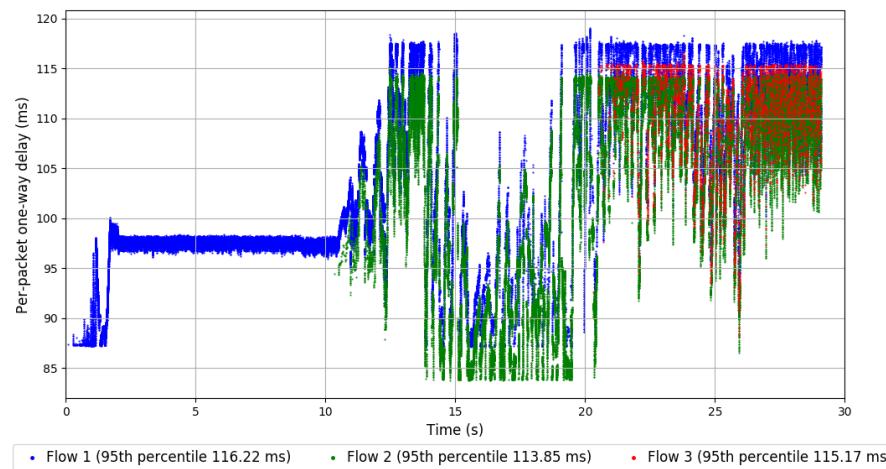
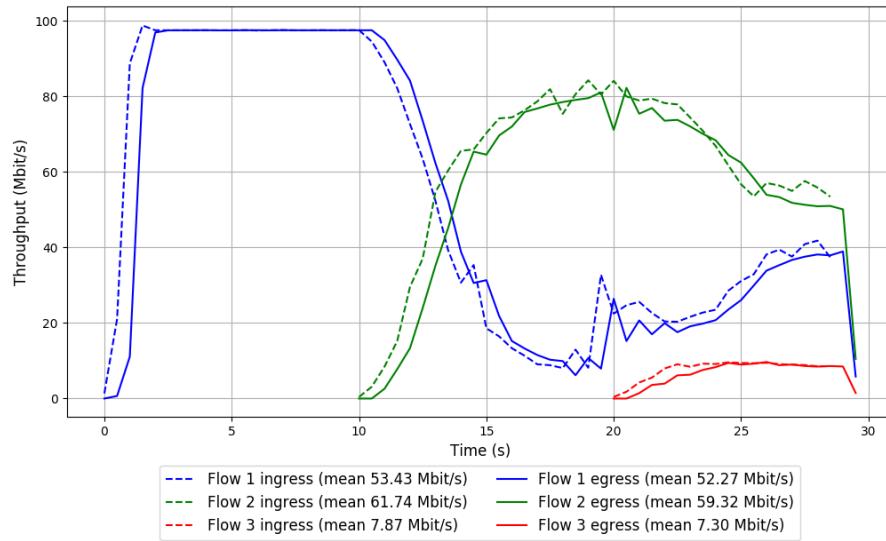


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-02-05 09:20:52
End at: 2019-02-05 09:21:22
Local clock offset: -9.546 ms
Remote clock offset: 3.014 ms

# Below is generated by plot.py at 2019-02-05 09:41:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 114.632 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 52.27 Mbit/s
95th percentile per-packet one-way delay: 116.215 ms
Loss rate: 2.10%
-- Flow 2:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 113.852 ms
Loss rate: 3.82%
-- Flow 3:
Average throughput: 7.30 Mbit/s
95th percentile per-packet one-way delay: 115.168 ms
Loss rate: 6.96%
```

Run 5: Report of Indigo-MusesC5 — Data Link

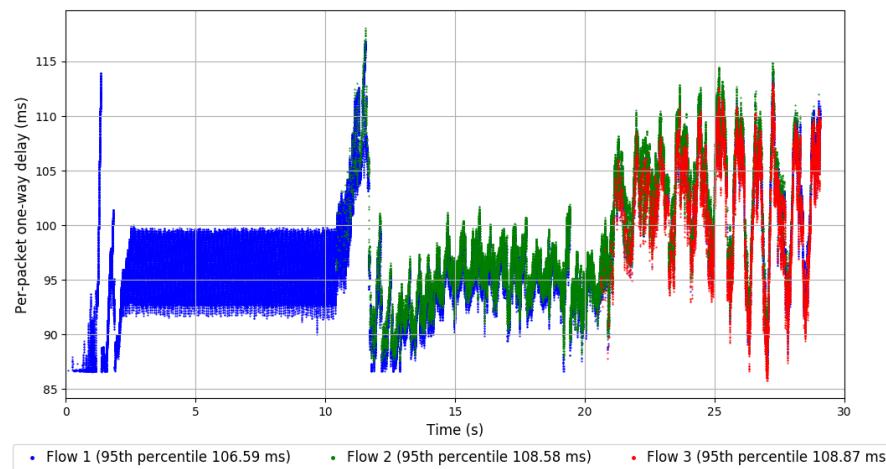
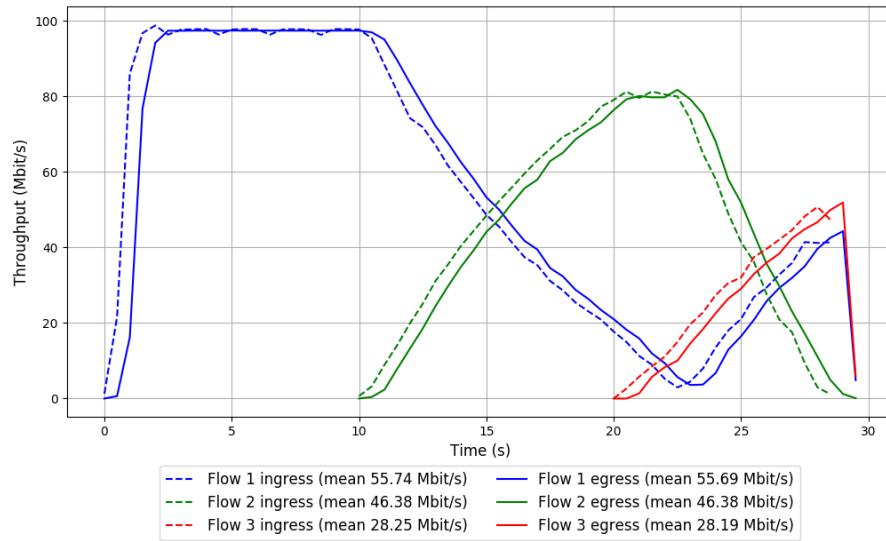


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 07:32:58
End at: 2019-02-05 07:33:28
Local clock offset: -7.746 ms
Remote clock offset: 9.165 ms

# Below is generated by plot.py at 2019-02-05 09:41:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 107.887 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 55.69 Mbit/s
95th percentile per-packet one-way delay: 106.587 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 46.38 Mbit/s
95th percentile per-packet one-way delay: 108.577 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 28.19 Mbit/s
95th percentile per-packet one-way delay: 108.866 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo-MusesD — Data Link

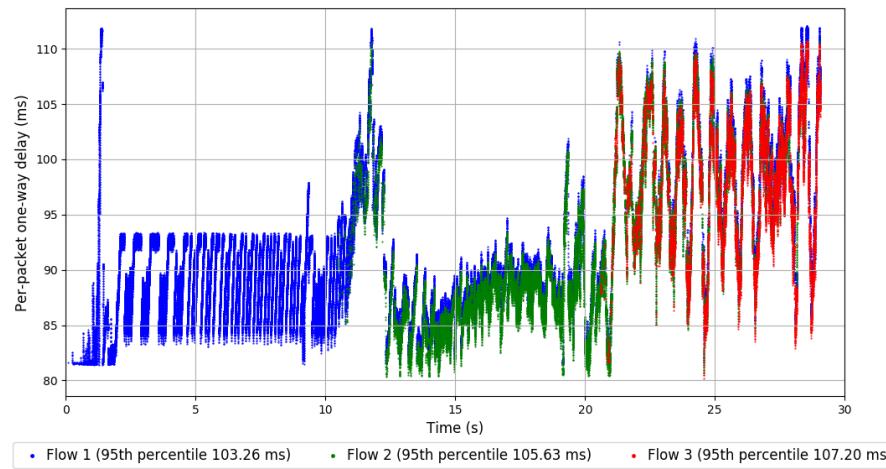
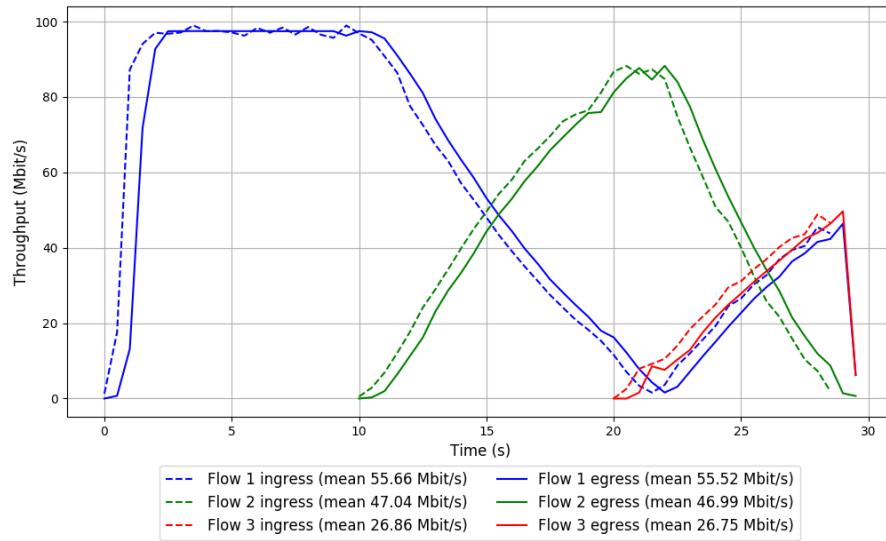


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 07:59:38
End at: 2019-02-05 08:00:08
Local clock offset: -2.783 ms
Remote clock offset: 0.914 ms

# Below is generated by plot.py at 2019-02-05 09:41:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 105.289 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 103.263 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 46.99 Mbit/s
95th percentile per-packet one-way delay: 105.631 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.75 Mbit/s
95th percentile per-packet one-way delay: 107.196 ms
Loss rate: 0.21%
```

Run 2: Report of Indigo-MusesD — Data Link

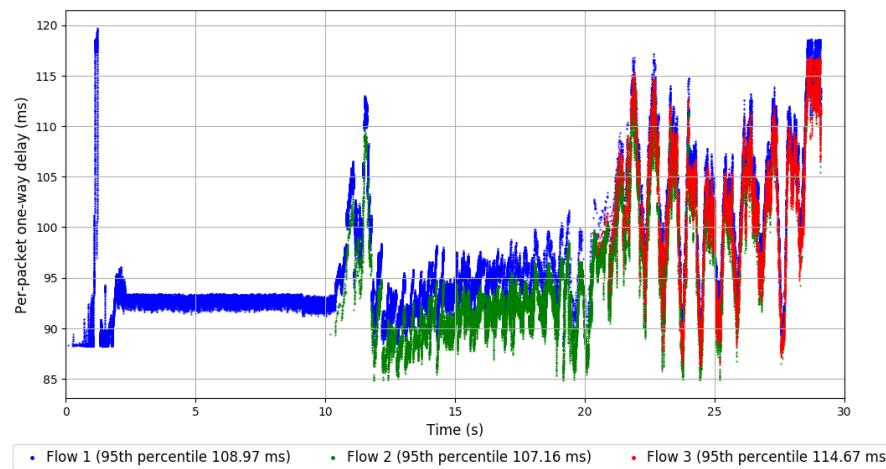
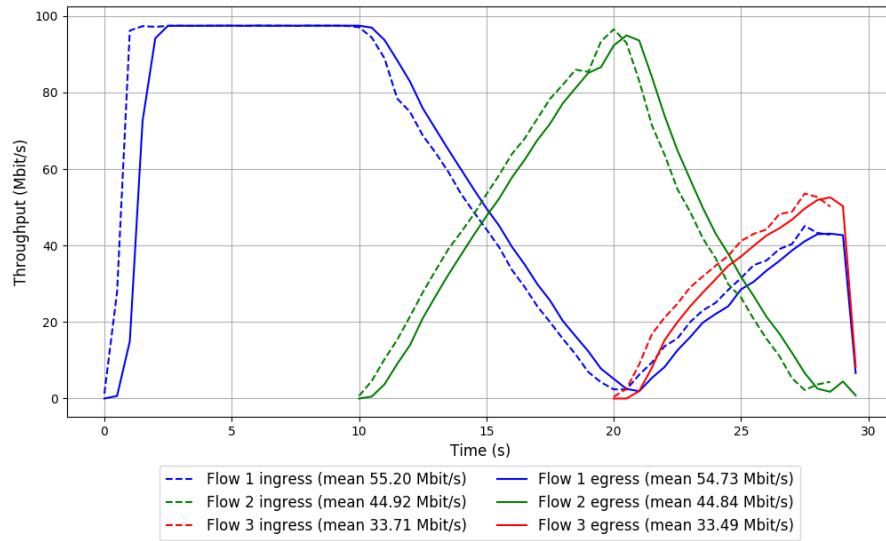


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 08:26:21
End at: 2019-02-05 08:26:51
Local clock offset: -0.307 ms
Remote clock offset: 6.793 ms

# Below is generated by plot.py at 2019-02-05 09:41:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 109.609 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 54.73 Mbit/s
95th percentile per-packet one-way delay: 108.966 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 44.84 Mbit/s
95th percentile per-packet one-way delay: 107.161 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 33.49 Mbit/s
95th percentile per-packet one-way delay: 114.667 ms
Loss rate: 0.50%
```

Run 3: Report of Indigo-MusesD — Data Link

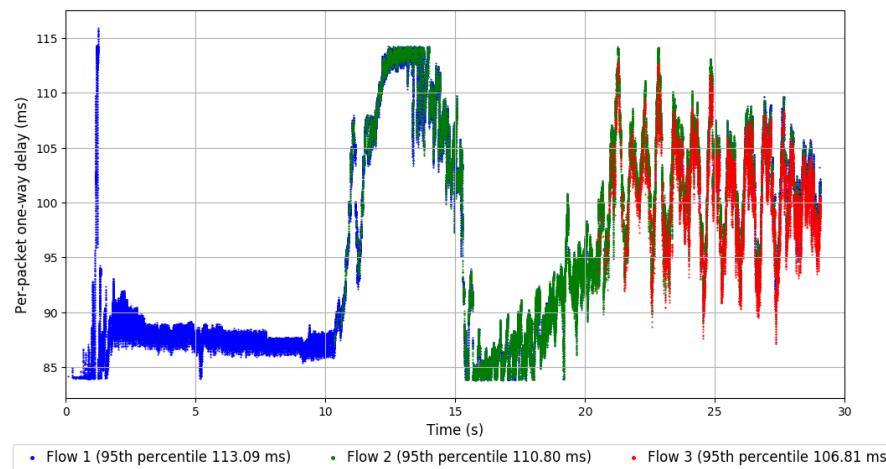
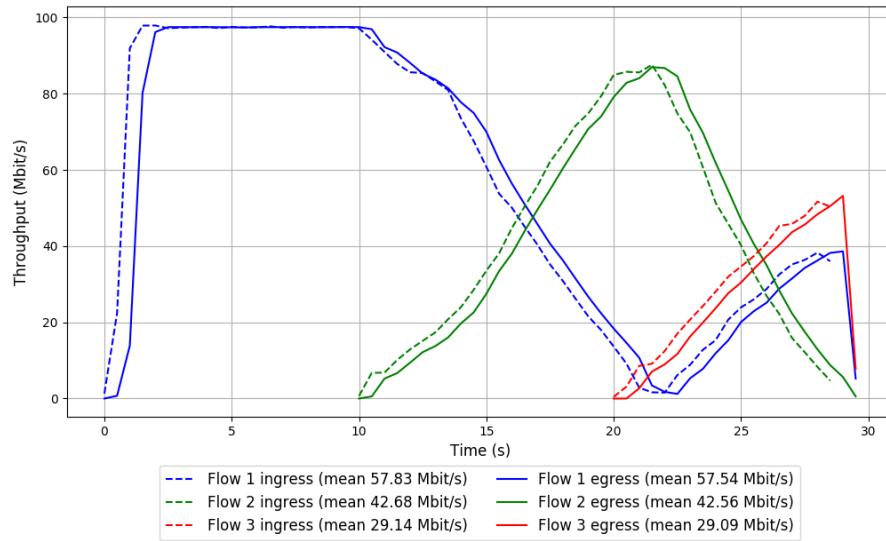


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 08:52:56
End at: 2019-02-05 08:53:26
Local clock offset: -3.889 ms
Remote clock offset: 3.286 ms

# Below is generated by plot.py at 2019-02-05 09:41:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.07 Mbit/s
95th percentile per-packet one-way delay: 112.474 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 57.54 Mbit/s
95th percentile per-packet one-way delay: 113.094 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 42.56 Mbit/s
95th percentile per-packet one-way delay: 110.795 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 106.806 ms
Loss rate: 0.10%
```

Run 4: Report of Indigo-MusesD — Data Link

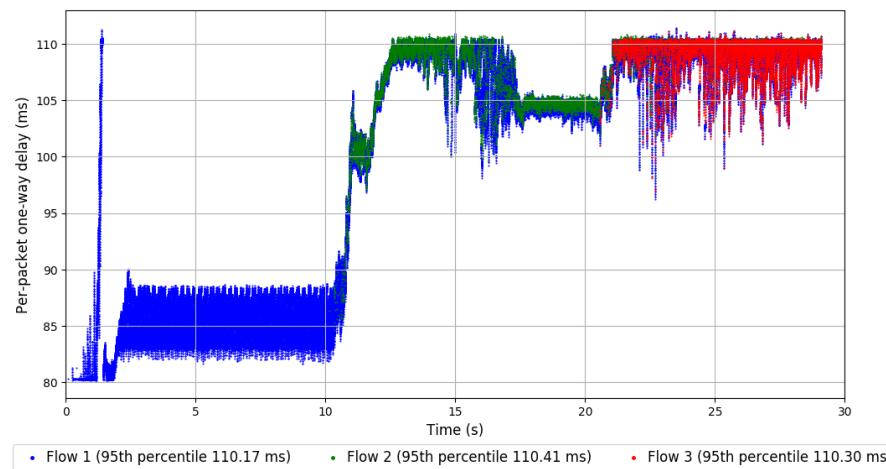
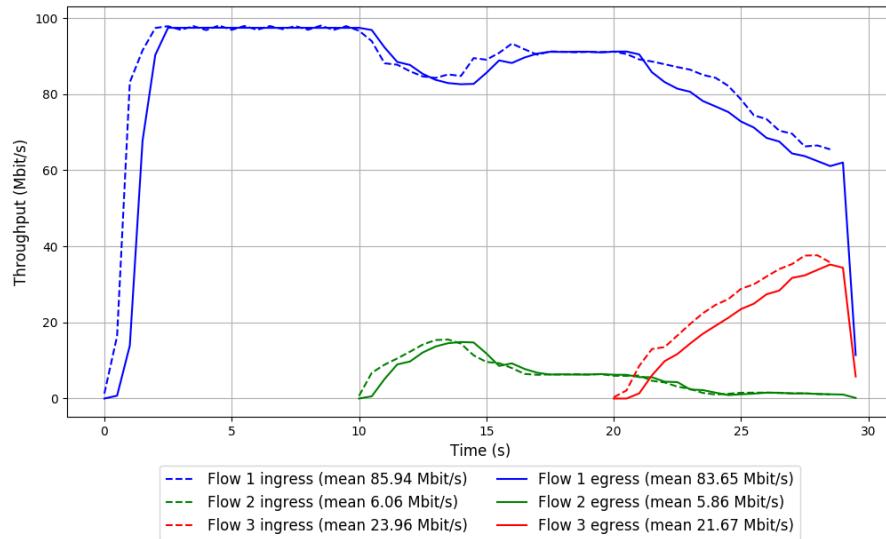


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-02-05 09:19:35
End at: 2019-02-05 09:20:05
Local clock offset: -9.349 ms
Remote clock offset: -2.106 ms

# Below is generated by plot.py at 2019-02-05 09:41:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.99 Mbit/s
95th percentile per-packet one-way delay: 110.197 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 83.65 Mbit/s
95th percentile per-packet one-way delay: 110.170 ms
Loss rate: 2.58%
-- Flow 2:
Average throughput: 5.86 Mbit/s
95th percentile per-packet one-way delay: 110.406 ms
Loss rate: 3.23%
-- Flow 3:
Average throughput: 21.67 Mbit/s
95th percentile per-packet one-way delay: 110.298 ms
Loss rate: 9.53%
```

Run 5: Report of Indigo-MusesD — Data Link

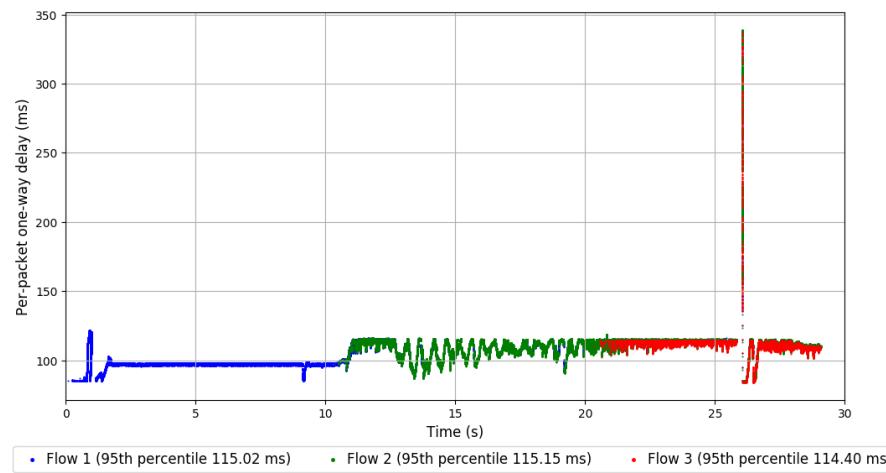
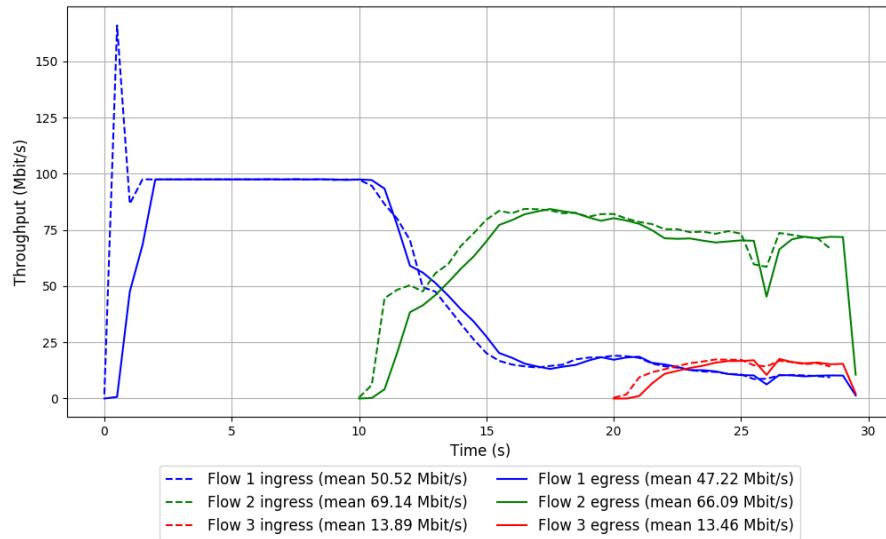


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 07:24:11
End at: 2019-02-05 07:24:41
Local clock offset: -6.673 ms
Remote clock offset: 9.15 ms

# Below is generated by plot.py at 2019-02-05 09:42:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 115.100 ms
Loss rate: 5.36%
-- Flow 1:
Average throughput: 47.22 Mbit/s
95th percentile per-packet one-way delay: 115.017 ms
Loss rate: 6.45%
-- Flow 2:
Average throughput: 66.09 Mbit/s
95th percentile per-packet one-way delay: 115.152 ms
Loss rate: 4.33%
-- Flow 3:
Average throughput: 13.46 Mbit/s
95th percentile per-packet one-way delay: 114.398 ms
Loss rate: 3.13%
```

Run 1: Report of Indigo-MusesT — Data Link

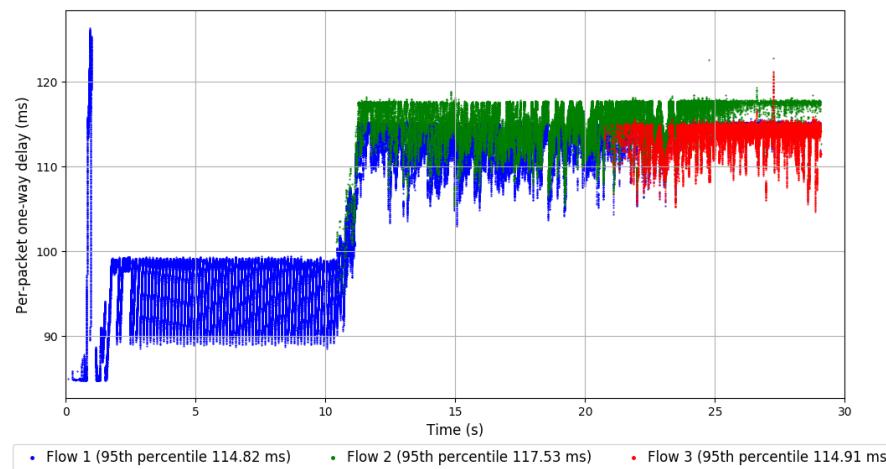
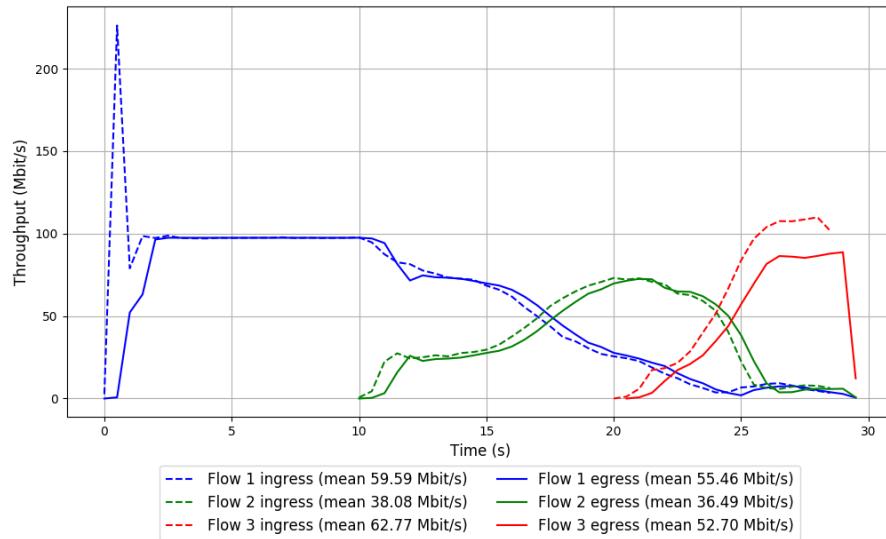


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 07:50:53
End at: 2019-02-05 07:51:23
Local clock offset: -5.763 ms
Remote clock offset: 6.536 ms

# Below is generated by plot.py at 2019-02-05 09:42:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.68 Mbit/s
95th percentile per-packet one-way delay: 117.164 ms
Loss rate: 7.84%
-- Flow 1:
Average throughput: 55.46 Mbit/s
95th percentile per-packet one-way delay: 114.821 ms
Loss rate: 6.85%
-- Flow 2:
Average throughput: 36.49 Mbit/s
95th percentile per-packet one-way delay: 117.531 ms
Loss rate: 4.10%
-- Flow 3:
Average throughput: 52.70 Mbit/s
95th percentile per-packet one-way delay: 114.913 ms
Loss rate: 16.03%
```

Run 2: Report of Indigo-MusesT — Data Link

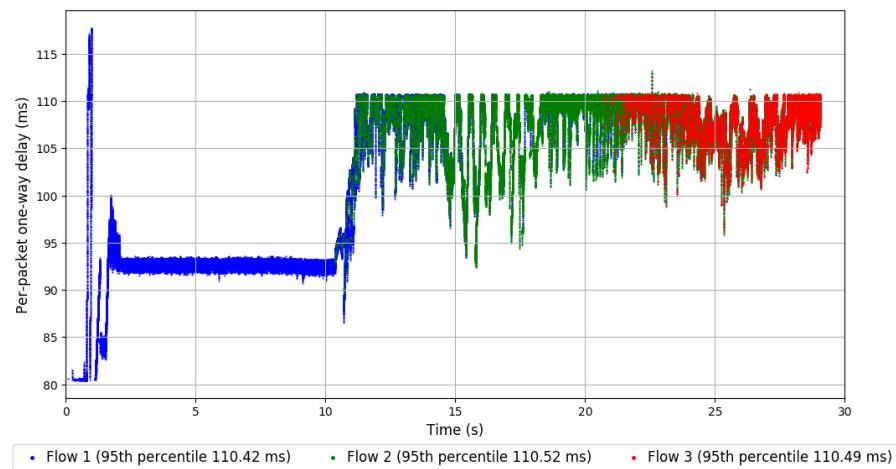
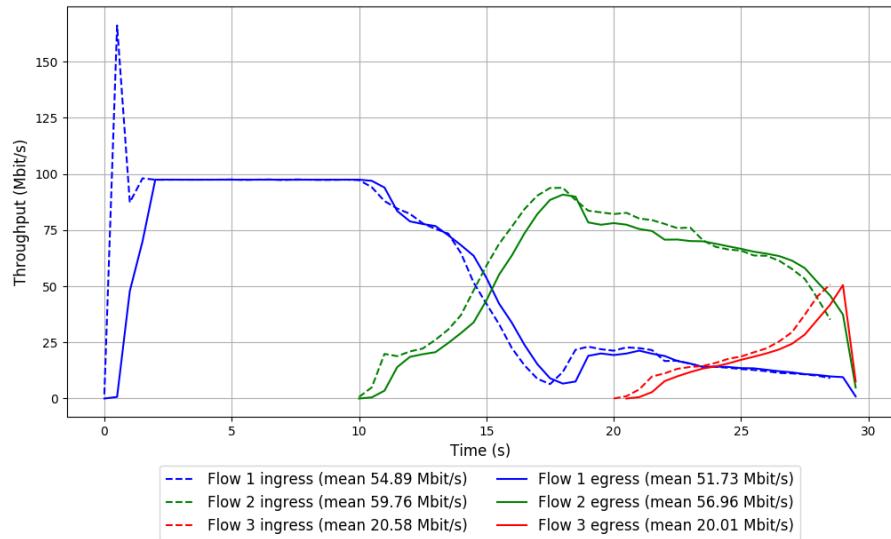


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 08:17:34
End at: 2019-02-05 08:18:04
Local clock offset: -0.906 ms
Remote clock offset: 0.767 ms

# Below is generated by plot.py at 2019-02-05 09:42:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.73 Mbit/s
95th percentile per-packet one-way delay: 110.481 ms
Loss rate: 5.08%
-- Flow 1:
Average throughput: 51.73 Mbit/s
95th percentile per-packet one-way delay: 110.419 ms
Loss rate: 5.65%
-- Flow 2:
Average throughput: 56.96 Mbit/s
95th percentile per-packet one-way delay: 110.517 ms
Loss rate: 4.62%
-- Flow 3:
Average throughput: 20.01 Mbit/s
95th percentile per-packet one-way delay: 110.489 ms
Loss rate: 2.80%
```

Run 3: Report of Indigo-MusesT — Data Link

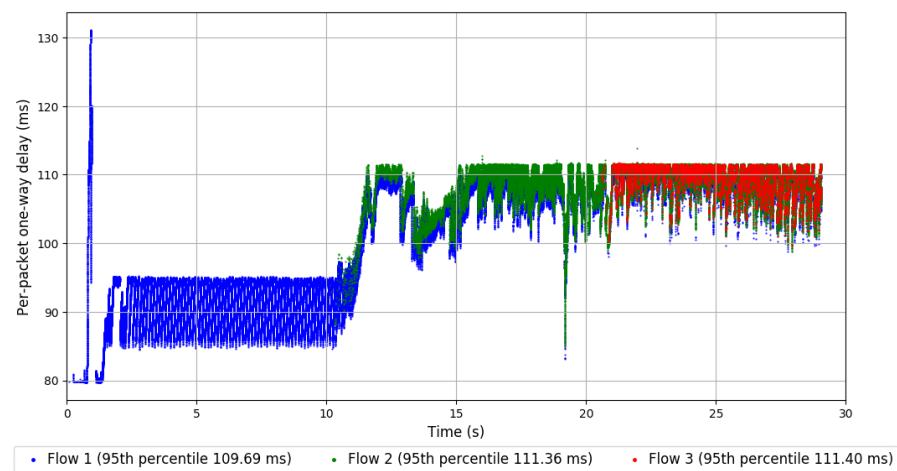
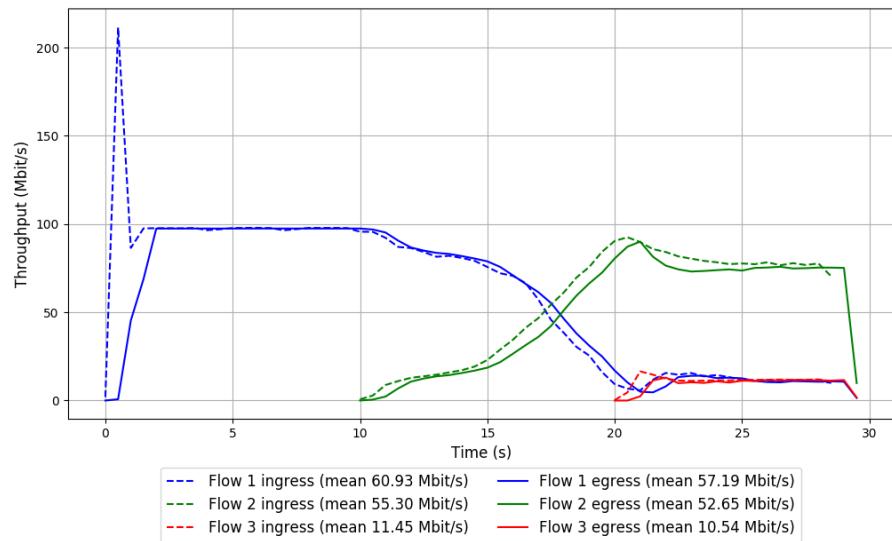


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 08:44:10
End at: 2019-02-05 08:44:40
Local clock offset: -0.049 ms
Remote clock offset: 0.776 ms

# Below is generated by plot.py at 2019-02-05 09:42:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 111.259 ms
Loss rate: 5.65%
-- Flow 1:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 109.692 ms
Loss rate: 6.06%
-- Flow 2:
Average throughput: 52.65 Mbit/s
95th percentile per-packet one-way delay: 111.363 ms
Loss rate: 4.74%
-- Flow 3:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 111.400 ms
Loss rate: 8.00%
```

Run 4: Report of Indigo-MusesT — Data Link

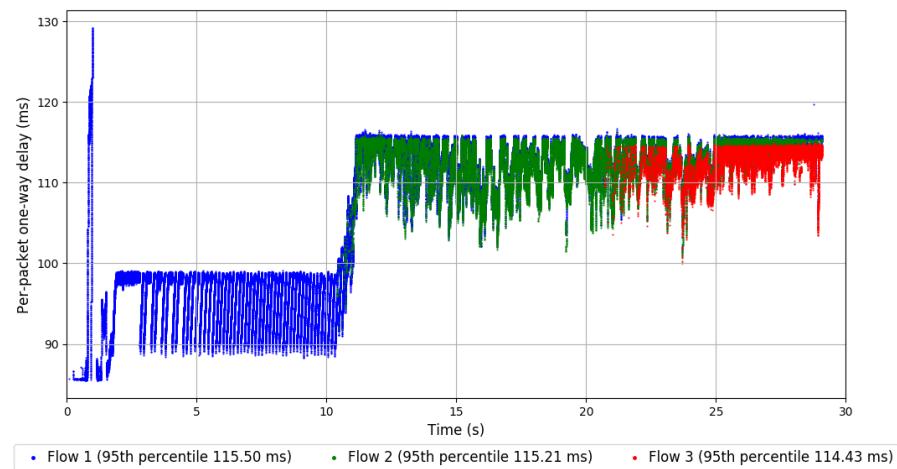
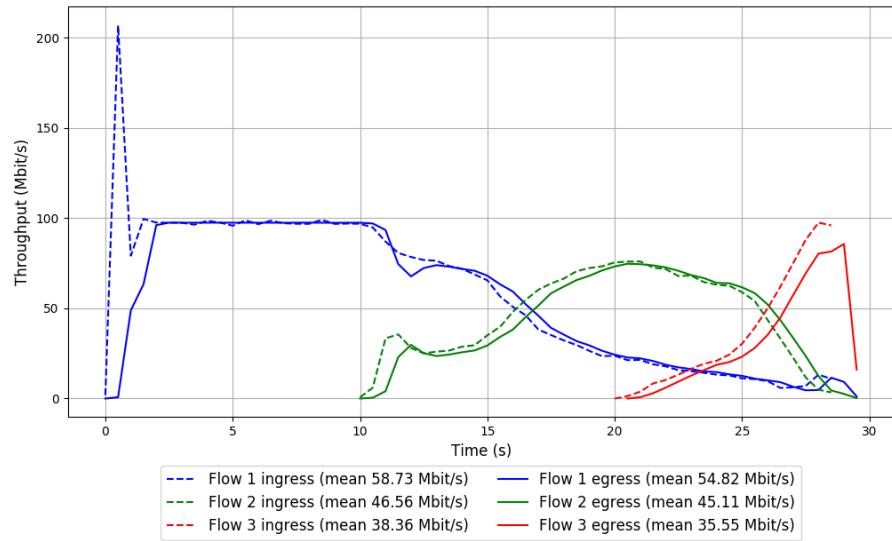


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-02-05 09:10:49
End at: 2019-02-05 09:11:19
Local clock offset: -9.097 ms
Remote clock offset: 3.218 ms

# Below is generated by plot.py at 2019-02-05 09:42:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.62 Mbit/s
95th percentile per-packet one-way delay: 115.315 ms
Loss rate: 5.58%
-- Flow 1:
Average throughput: 54.82 Mbit/s
95th percentile per-packet one-way delay: 115.495 ms
Loss rate: 6.57%
-- Flow 2:
Average throughput: 45.11 Mbit/s
95th percentile per-packet one-way delay: 115.209 ms
Loss rate: 3.00%
-- Flow 3:
Average throughput: 35.55 Mbit/s
95th percentile per-packet one-way delay: 114.427 ms
Loss rate: 7.33%
```

Run 5: Report of Indigo-MusesT — Data Link

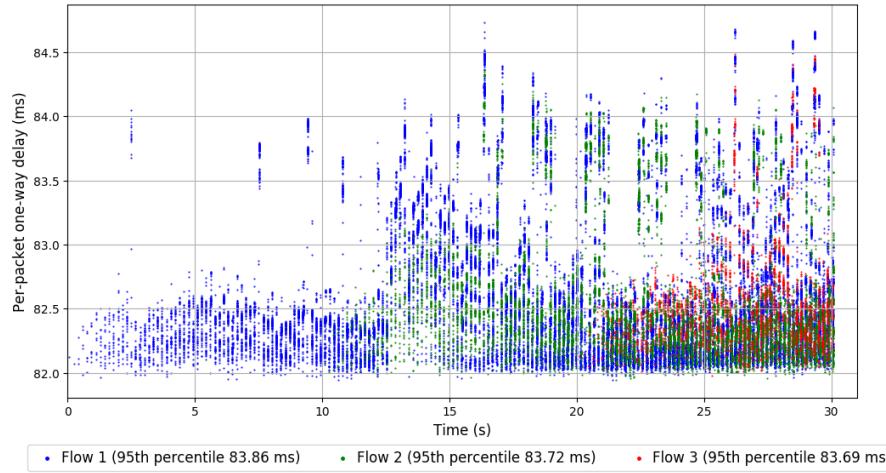
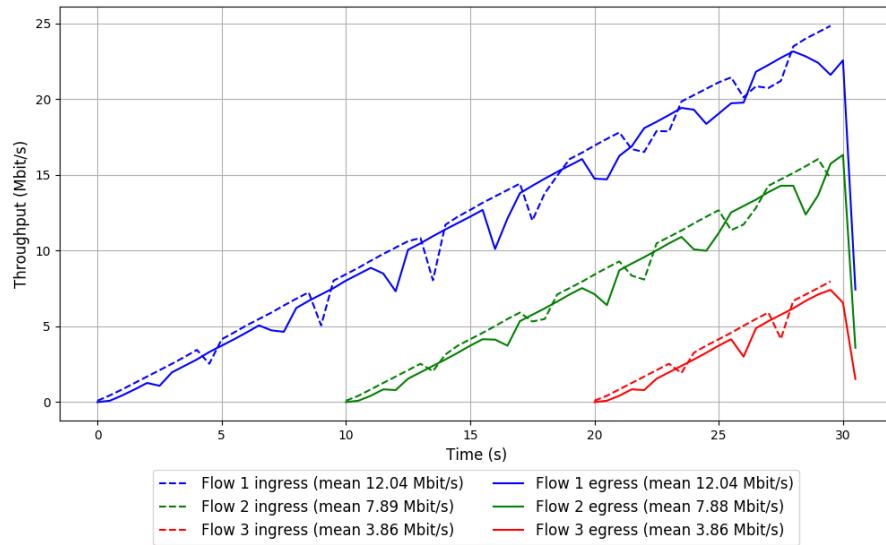


Run 1: Statistics of LEDBAT

```
Start at: 2019-02-05 07:43:08
End at: 2019-02-05 07:43:38
Local clock offset: -7.997 ms
Remote clock offset: 3.588 ms

# Below is generated by plot.py at 2019-02-05 09:42:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.56 Mbit/s
95th percentile per-packet one-way delay: 83.811 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 83.860 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 83.716 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 83.692 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

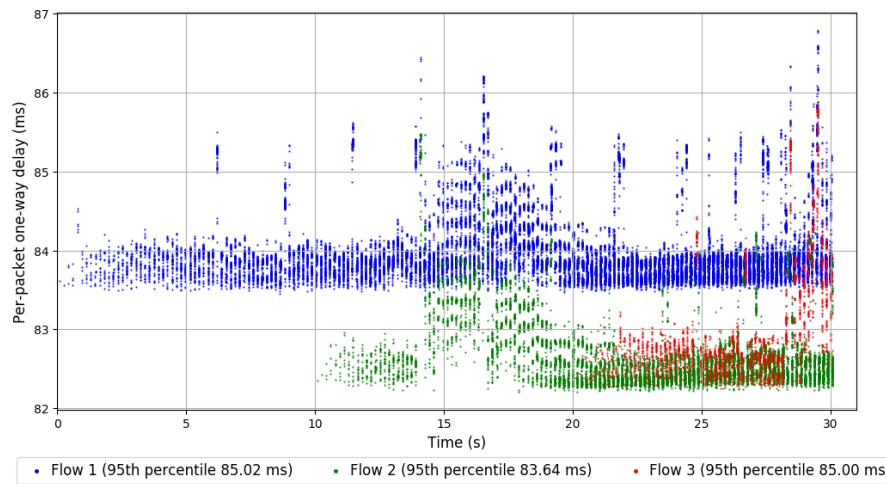
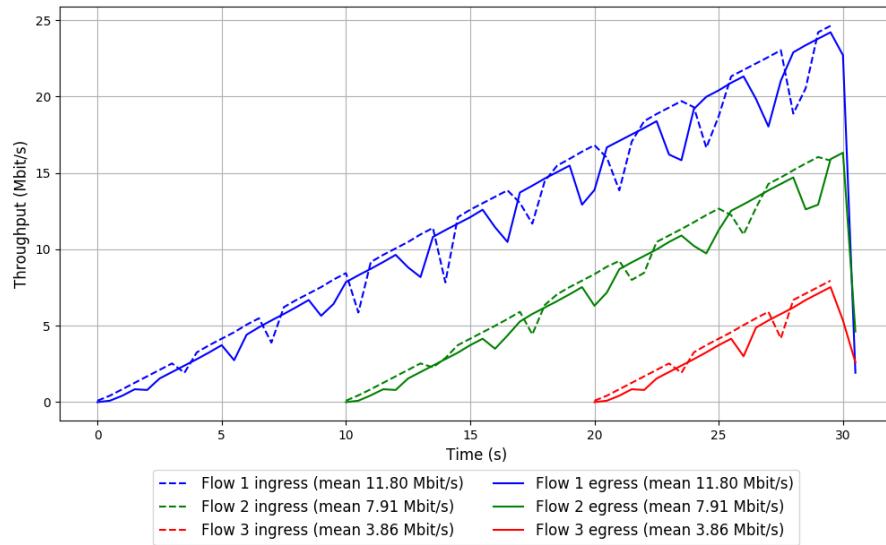


Run 2: Statistics of LEDBAT

```
Start at: 2019-02-05 08:09:53
End at: 2019-02-05 08:10:23
Local clock offset: -2.231 ms
Remote clock offset: 1.64 ms

# Below is generated by plot.py at 2019-02-05 09:42:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 84.750 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 85.018 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.91 Mbit/s
95th percentile per-packet one-way delay: 83.642 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 85.003 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link

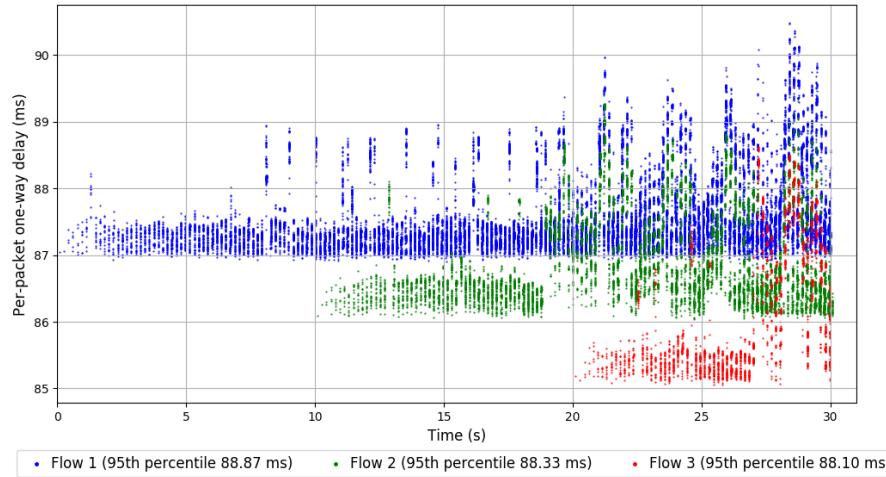
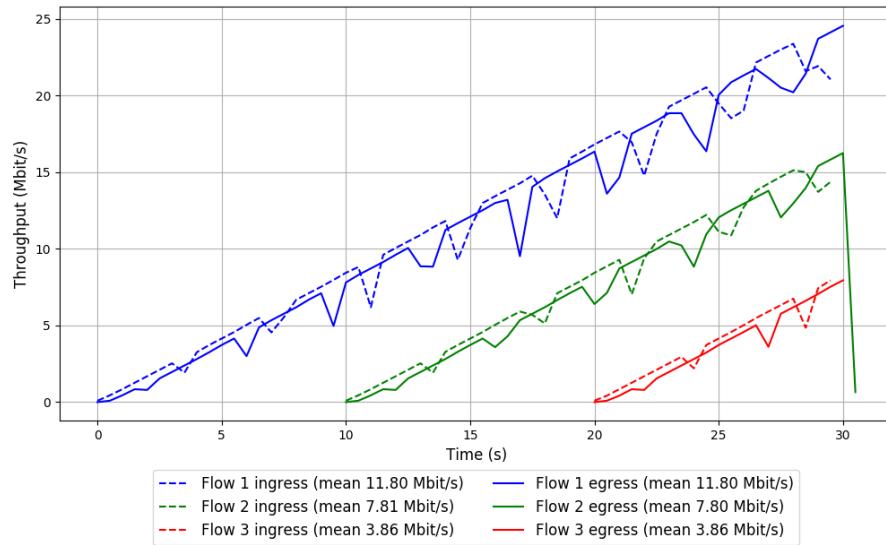


Run 3: Statistics of LEDBAT

```
Start at: 2019-02-05 08:36:30
End at: 2019-02-05 08:37:00
Local clock offset: -0.444 ms
Remote clock offset: 5.748 ms

# Below is generated by plot.py at 2019-02-05 09:42:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.23 Mbit/s
95th percentile per-packet one-way delay: 88.732 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 88.866 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.80 Mbit/s
95th percentile per-packet one-way delay: 88.335 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 88.104 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

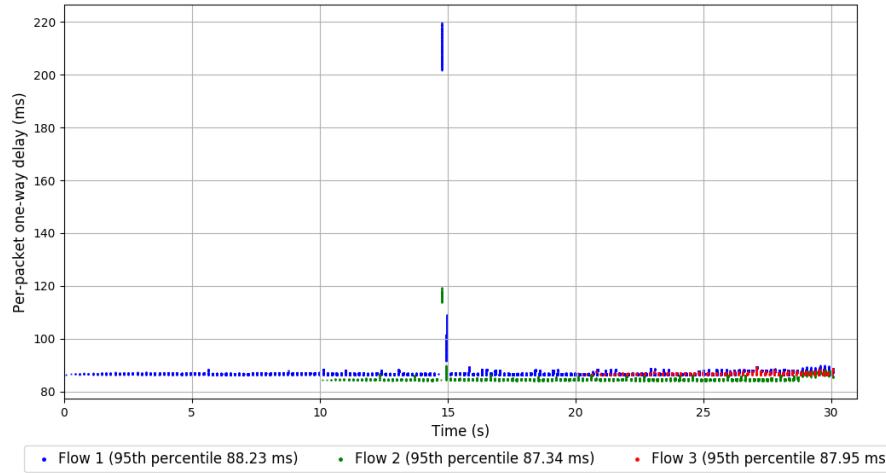
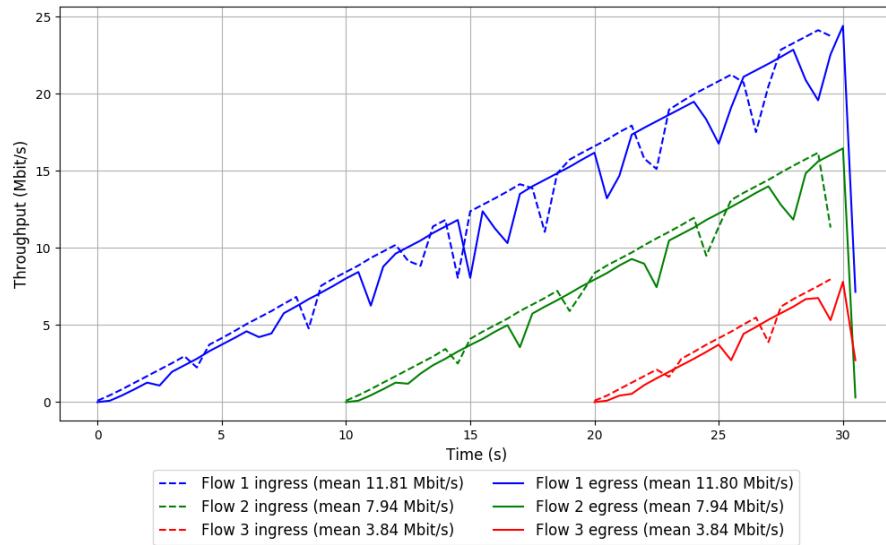


Run 4: Statistics of LEDBAT

```
Start at: 2019-02-05 09:03:04
End at: 2019-02-05 09:03:34
Local clock offset: -7.867 ms
Remote clock offset: 3.542 ms

# Below is generated by plot.py at 2019-02-05 09:42:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.37 Mbit/s
95th percentile per-packet one-way delay: 88.087 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 88.235 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 7.94 Mbit/s
95th percentile per-packet one-way delay: 87.337 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.84 Mbit/s
95th percentile per-packet one-way delay: 87.955 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

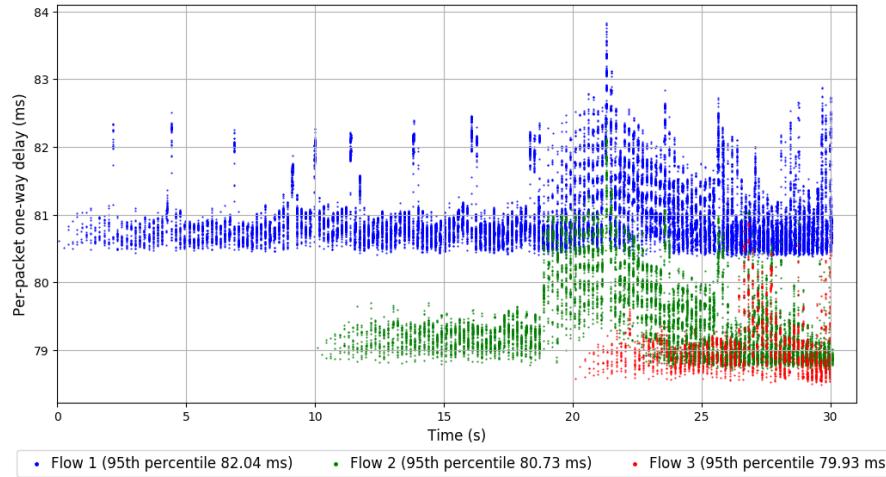
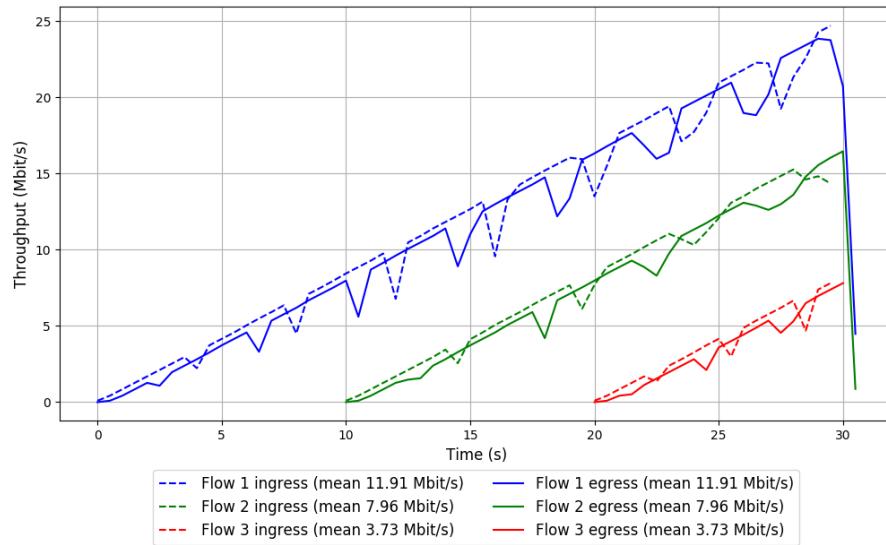


Run 5: Statistics of LEDBAT

```
Start at: 2019-02-05 09:29:43
End at: 2019-02-05 09:30:13
Local clock offset: -10.354 ms
Remote clock offset: -1.786 ms

# Below is generated by plot.py at 2019-02-05 09:42:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 81.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.91 Mbit/s
95th percentile per-packet one-way delay: 82.037 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.96 Mbit/s
95th percentile per-packet one-way delay: 80.730 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 79.927 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

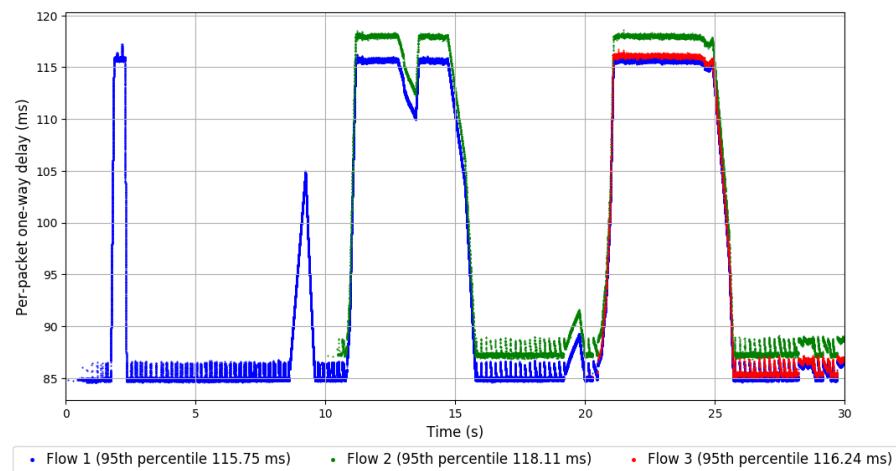
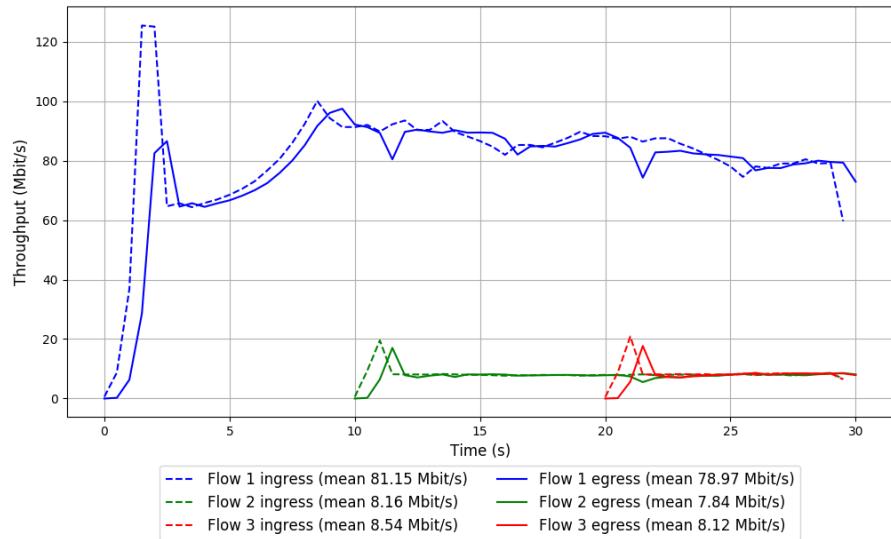


Run 1: Statistics of PCC-Allegro

```
Start at: 2019-02-05 07:35:34
End at: 2019-02-05 07:36:04
Local clock offset: -7.839 ms
Remote clock offset: 9.685 ms

# Below is generated by plot.py at 2019-02-05 09:43:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.86 Mbit/s
95th percentile per-packet one-way delay: 115.811 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 78.97 Mbit/s
95th percentile per-packet one-way delay: 115.749 ms
Loss rate: 2.68%
-- Flow 2:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 118.112 ms
Loss rate: 3.96%
-- Flow 3:
Average throughput: 8.12 Mbit/s
95th percentile per-packet one-way delay: 116.236 ms
Loss rate: 4.94%
```

Run 1: Report of PCC-Allegro — Data Link

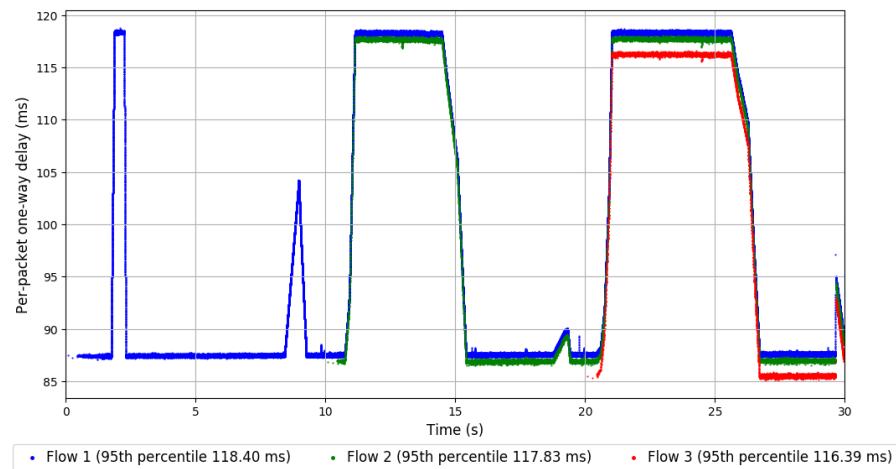
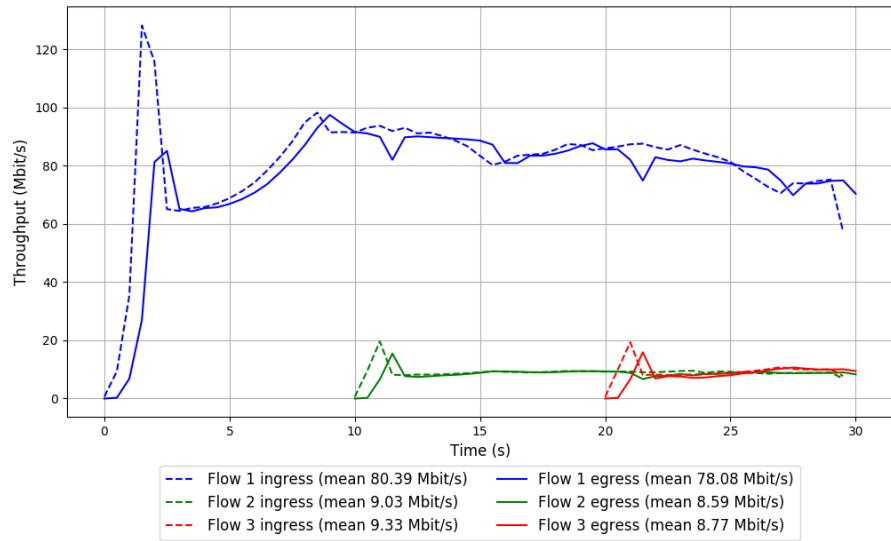


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-02-05 08:02:13
End at: 2019-02-05 08:02:43
Local clock offset: -3.102 ms
Remote clock offset: 5.96 ms

# Below is generated by plot.py at 2019-02-05 09:43:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.68 Mbit/s
95th percentile per-packet one-way delay: 118.396 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 78.08 Mbit/s
95th percentile per-packet one-way delay: 118.403 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 117.832 ms
Loss rate: 4.85%
-- Flow 3:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 116.395 ms
Loss rate: 5.99%
```

Run 2: Report of PCC-Allegro — Data Link

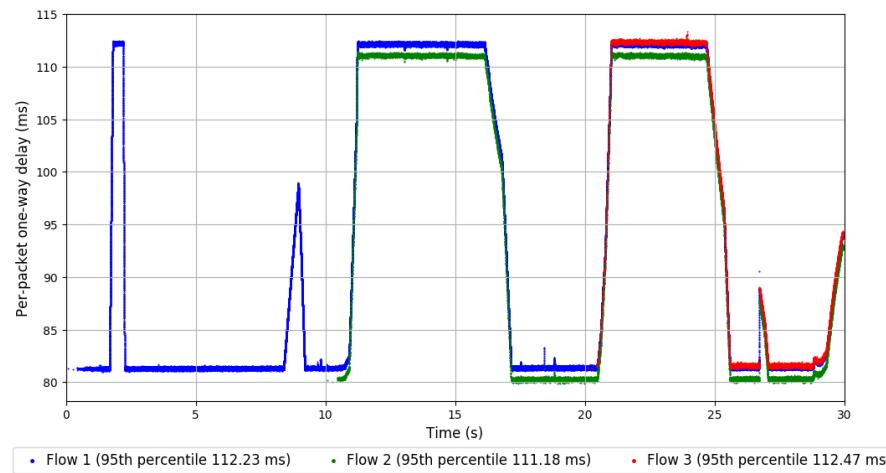
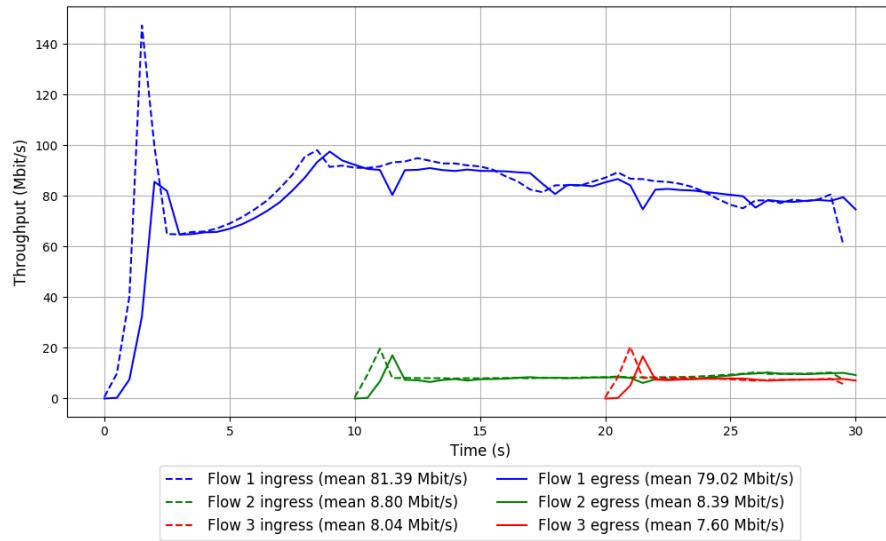


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-02-05 08:28:56
End at: 2019-02-05 08:29:26
Local clock offset: -0.144 ms
Remote clock offset: 0.581 ms

# Below is generated by plot.py at 2019-02-05 09:43:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.11 Mbit/s
95th percentile per-packet one-way delay: 112.238 ms
Loss rate: 3.06%
-- Flow 1:
Average throughput: 79.02 Mbit/s
95th percentile per-packet one-way delay: 112.231 ms
Loss rate: 2.88%
-- Flow 2:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 111.176 ms
Loss rate: 4.53%
-- Flow 3:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 112.473 ms
Loss rate: 5.41%
```

Run 3: Report of PCC-Allegro — Data Link

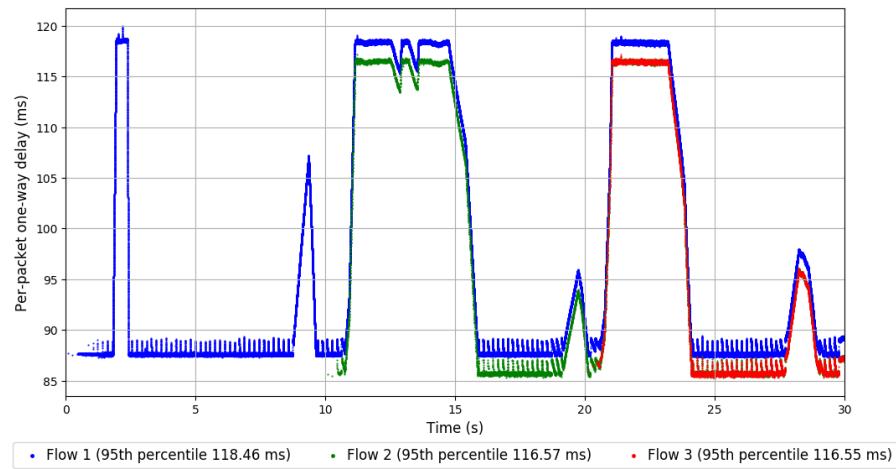
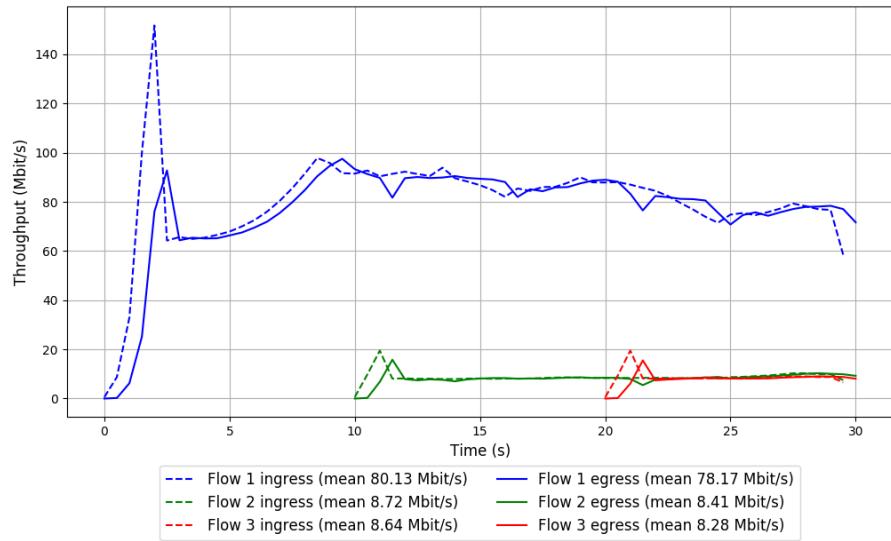


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-02-05 08:55:31
End at: 2019-02-05 08:56:01
Local clock offset: -5.743 ms
Remote clock offset: 5.339 ms

# Below is generated by plot.py at 2019-02-05 09:43:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 118.446 ms
Loss rate: 2.57%
-- Flow 1:
Average throughput: 78.17 Mbit/s
95th percentile per-packet one-way delay: 118.456 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 8.41 Mbit/s
95th percentile per-packet one-way delay: 116.570 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 116.546 ms
Loss rate: 4.15%
```

Run 4: Report of PCC-Allegro — Data Link

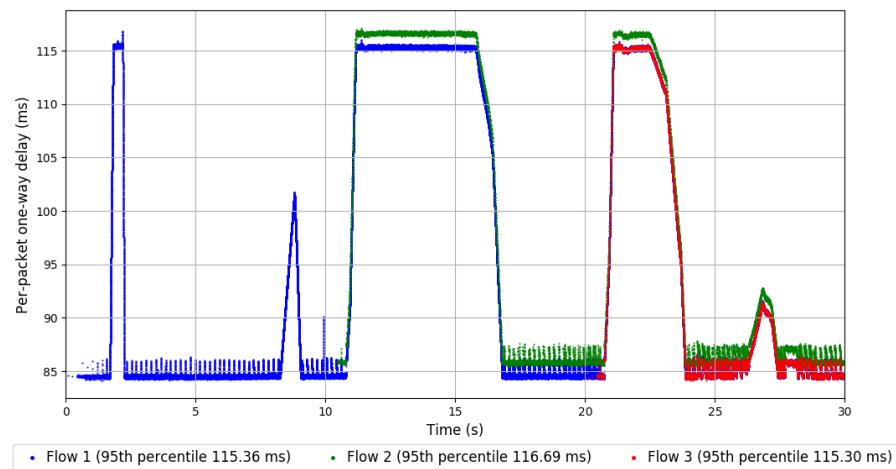
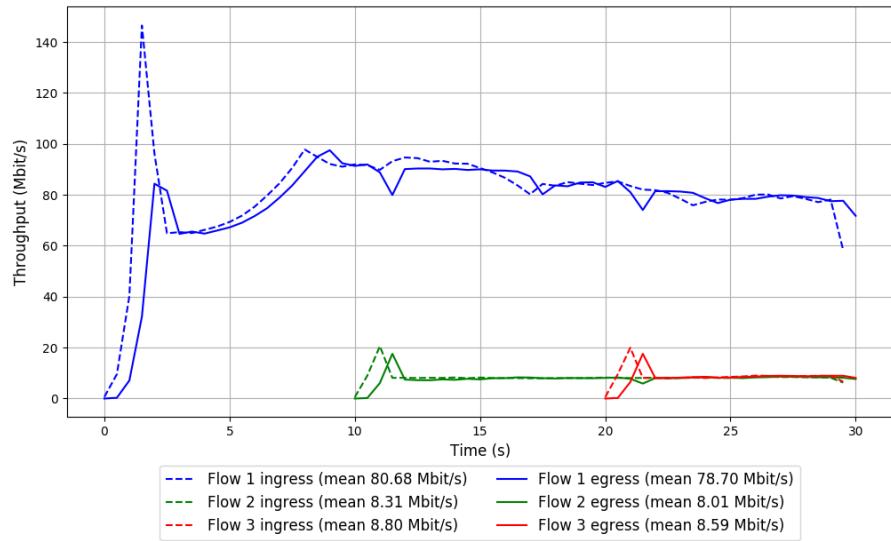


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-02-05 09:22:10
End at: 2019-02-05 09:22:40
Local clock offset: -10.346 ms
Remote clock offset: 3.174 ms

# Below is generated by plot.py at 2019-02-05 09:43:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.86 Mbit/s
95th percentile per-packet one-way delay: 115.385 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 78.70 Mbit/s
95th percentile per-packet one-way delay: 115.356 ms
Loss rate: 2.45%
-- Flow 2:
Average throughput: 8.01 Mbit/s
95th percentile per-packet one-way delay: 116.692 ms
Loss rate: 3.55%
-- Flow 3:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 115.304 ms
Loss rate: 2.38%
```

Run 5: Report of PCC-Allegro — Data Link

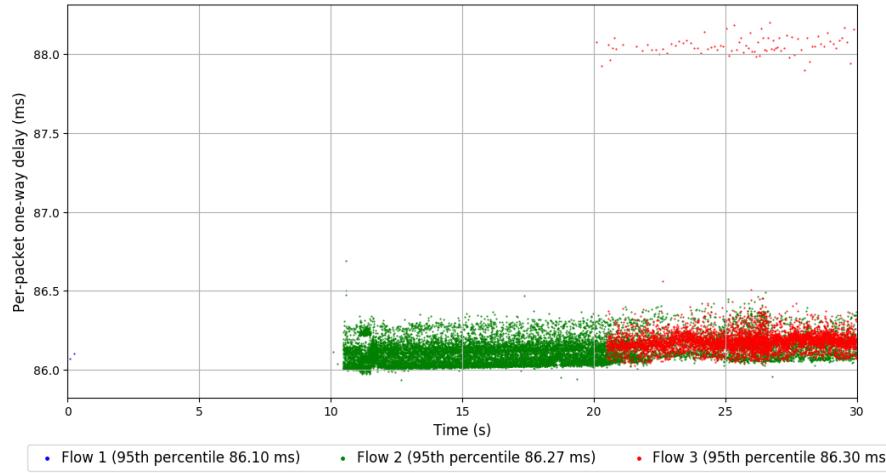
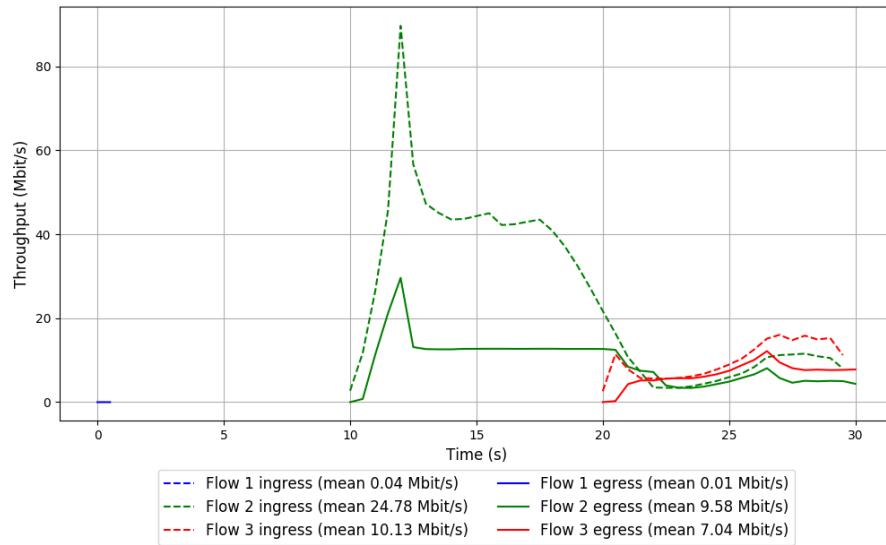


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2019-02-05 07:41:54
End at: 2019-02-05 07:42:24
Local clock offset: -7.97 ms
Remote clock offset: 7.872 ms

# Below is generated by plot.py at 2019-02-05 09:43:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 86.277 ms
Loss rate: 56.15%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 86.104 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 86.270 ms
Loss rate: 61.36%
-- Flow 3:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 86.298 ms
Loss rate: 30.54%
```

Run 1: Report of PCC-Expr — Data Link

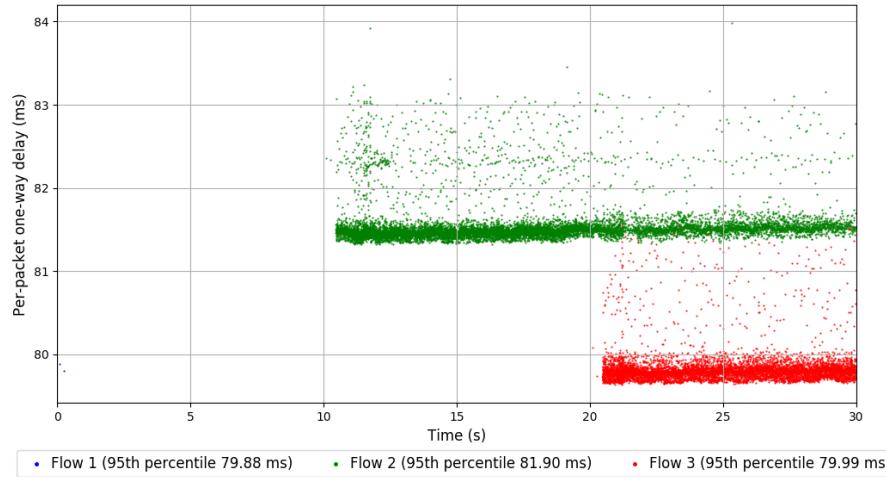
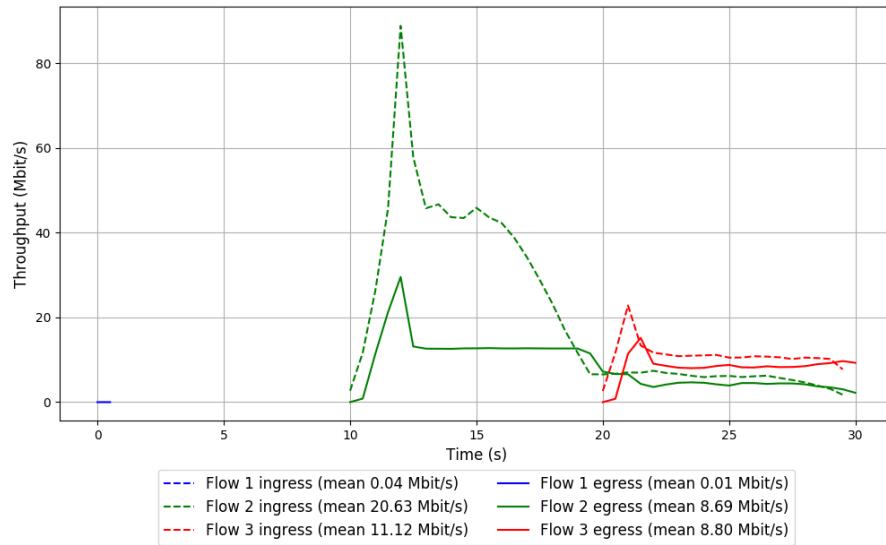


Run 2: Statistics of PCC-Expr

```
Start at: 2019-02-05 08:08:39
End at: 2019-02-05 08:09:09
Local clock offset: -1.67 ms
Remote clock offset: 1.468 ms

# Below is generated by plot.py at 2019-02-05 09:43:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 81.636 ms
Loss rate: 50.05%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 79.883 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 81.902 ms
Loss rate: 57.85%
-- Flow 3:
Average throughput: 8.80 Mbit/s
95th percentile per-packet one-way delay: 79.991 ms
Loss rate: 20.93%
```

Run 2: Report of PCC-Expr — Data Link

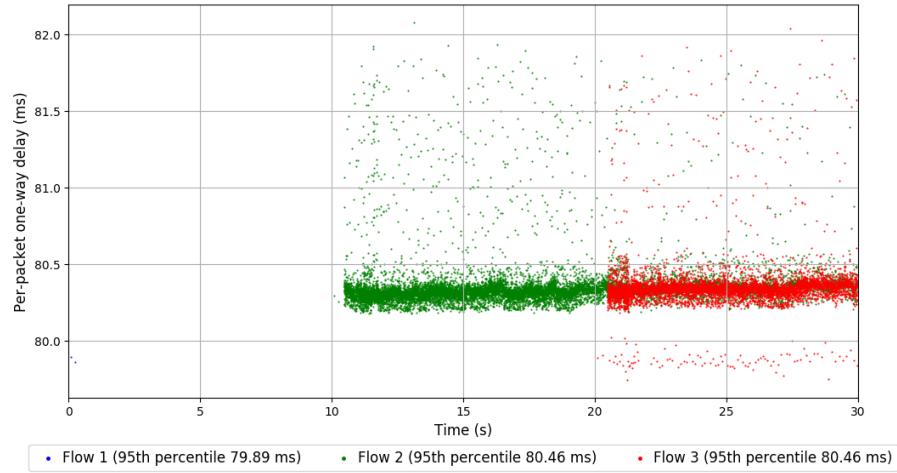
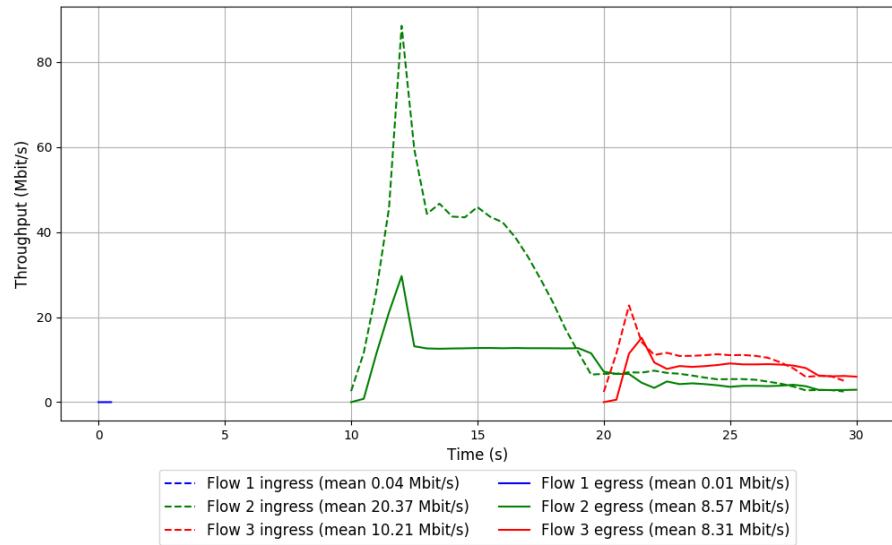


Run 3: Statistics of PCC-Expr

```
Start at: 2019-02-05 08:35:16
End at: 2019-02-05 08:35:46
Local clock offset: 0.213 ms
Remote clock offset: 0.624 ms

# Below is generated by plot.py at 2019-02-05 09:43:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.44 Mbit/s
95th percentile per-packet one-way delay: 80.462 ms
Loss rate: 50.11%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 79.895 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 80.464 ms
Loss rate: 57.94%
-- Flow 3:
Average throughput: 8.31 Mbit/s
95th percentile per-packet one-way delay: 80.457 ms
Loss rate: 18.62%
```

Run 3: Report of PCC-Expr — Data Link

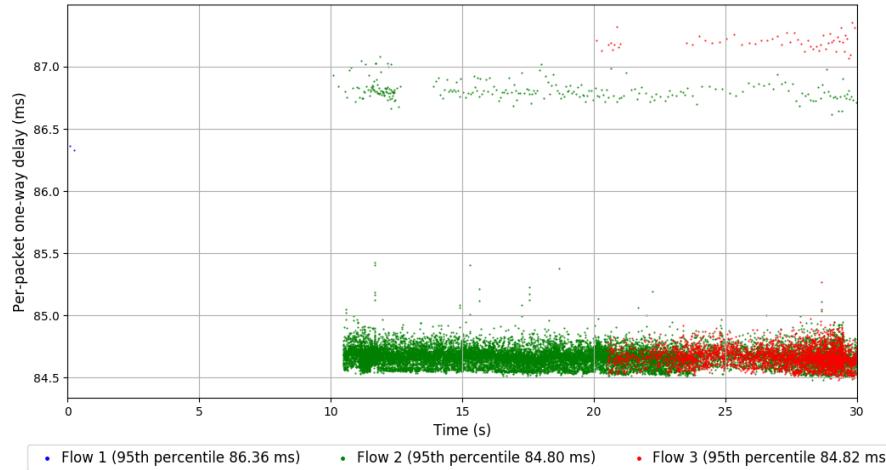
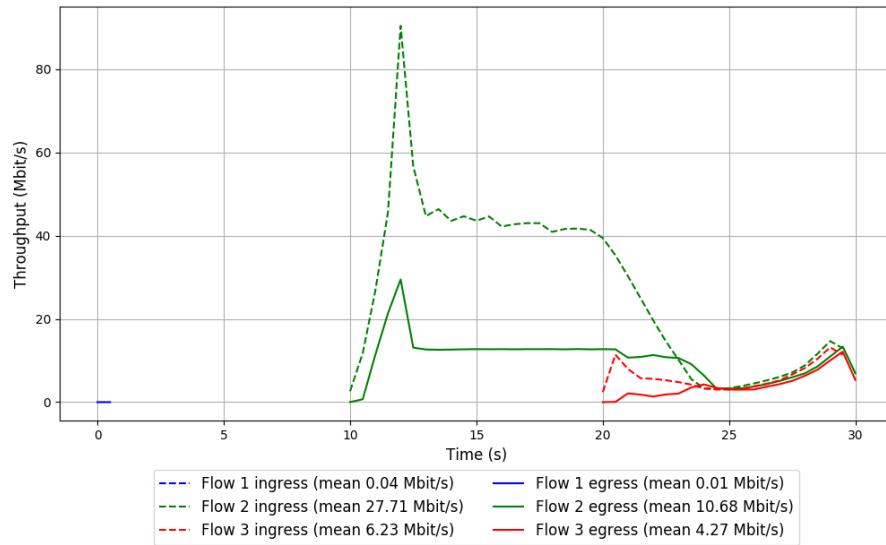


Run 4: Statistics of PCC-Expr

```
Start at: 2019-02-05 09:01:51
End at: 2019-02-05 09:02:21
Local clock offset: -6.862 ms
Remote clock offset: 4.777 ms

# Below is generated by plot.py at 2019-02-05 09:43:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 84.804 ms
Loss rate: 58.47%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 86.358 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.68 Mbit/s
95th percentile per-packet one-way delay: 84.801 ms
Loss rate: 61.48%
-- Flow 3:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 84.816 ms
Loss rate: 31.51%
```

Run 4: Report of PCC-Expr — Data Link

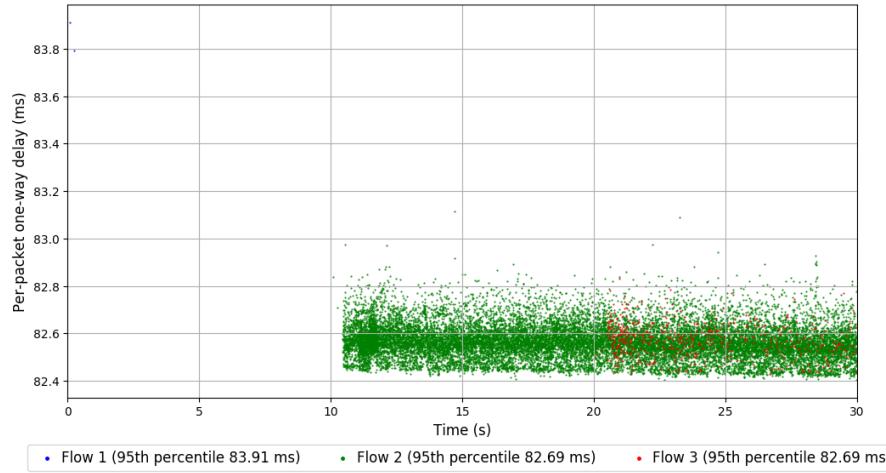
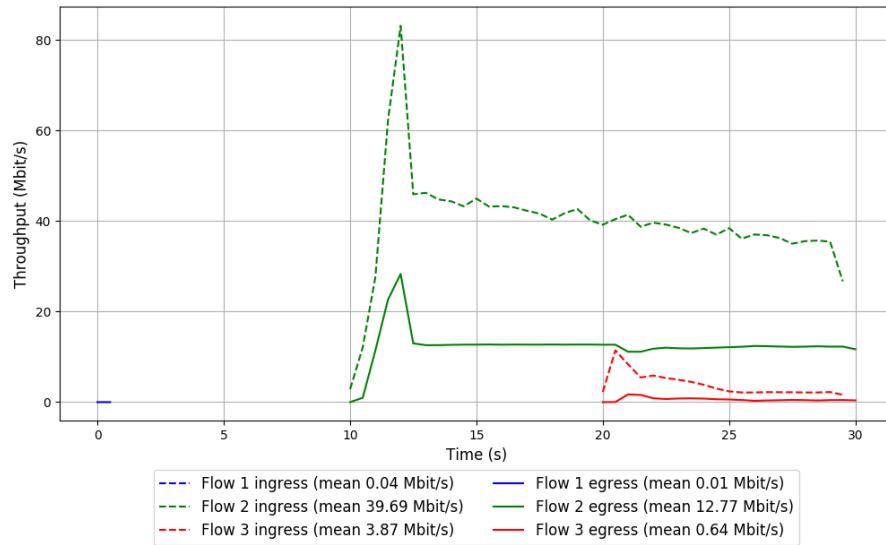


Run 5: Statistics of PCC-Expr

```
Start at: 2019-02-05 09:28:30
End at: 2019-02-05 09:29:00
Local clock offset: -10.251 ms
Remote clock offset: 2.114 ms

# Below is generated by plot.py at 2019-02-05 09:43:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.70 Mbit/s
95th percentile per-packet one-way delay: 82.695 ms
Loss rate: 68.56%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 83.910 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 82.695 ms
Loss rate: 67.84%
-- Flow 3:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 82.689 ms
Loss rate: 83.39%
```

Run 5: Report of PCC-Expr — Data Link

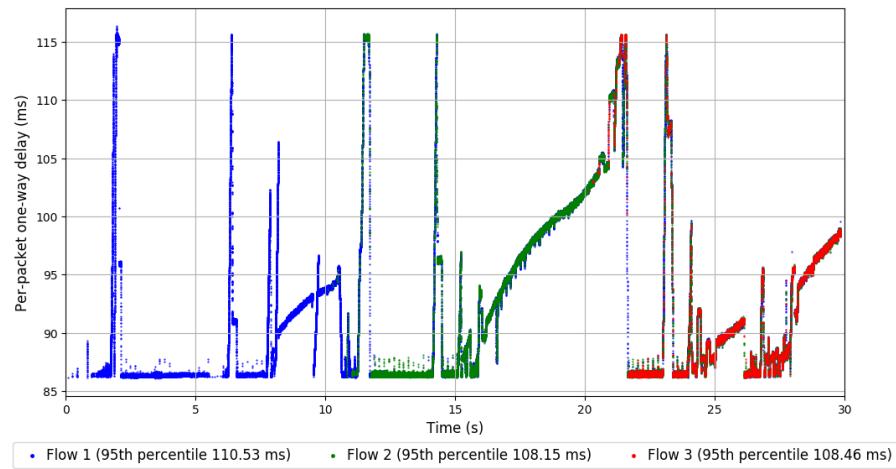
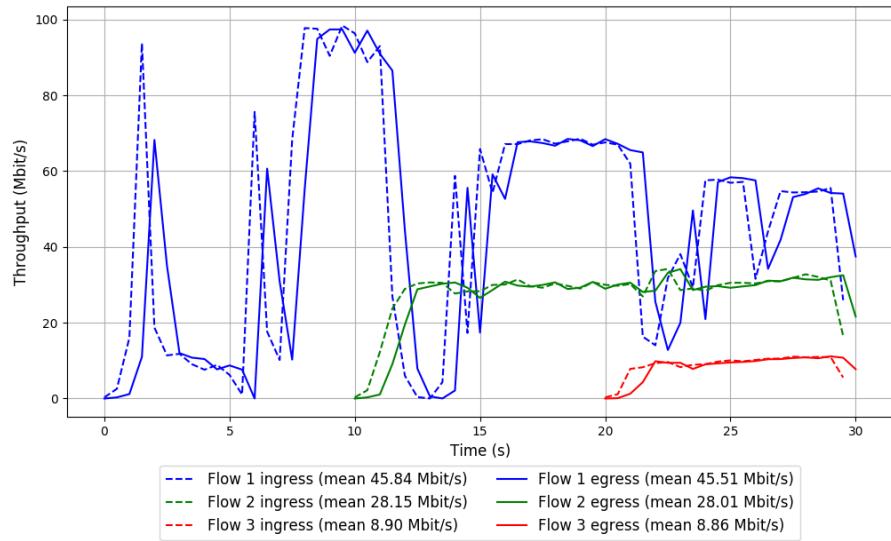


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2019-02-05 07:26:44
End at: 2019-02-05 07:27:14
Local clock offset: -7.544 ms
Remote clock offset: 9.643 ms

# Below is generated by plot.py at 2019-02-05 09:43:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.99 Mbit/s
95th percentile per-packet one-way delay: 110.211 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 45.51 Mbit/s
95th percentile per-packet one-way delay: 110.528 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 28.01 Mbit/s
95th percentile per-packet one-way delay: 108.149 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 8.86 Mbit/s
95th percentile per-packet one-way delay: 108.457 ms
Loss rate: 0.50%
```

Run 1: Report of QUIC Cubic — Data Link

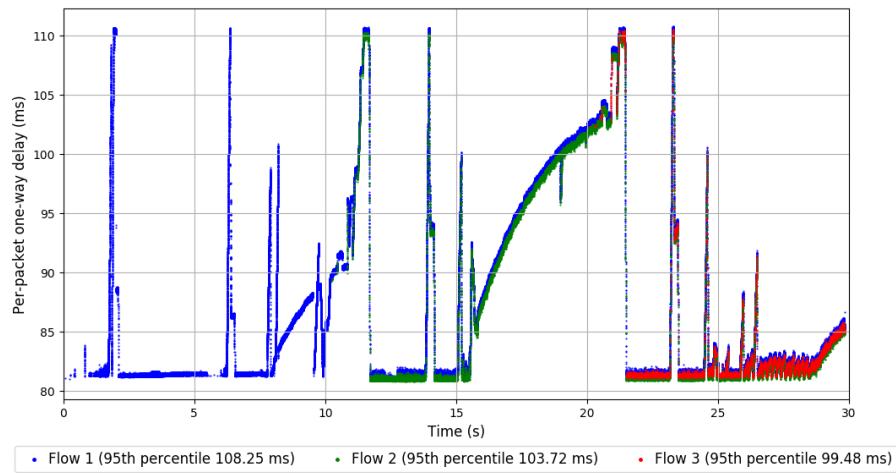
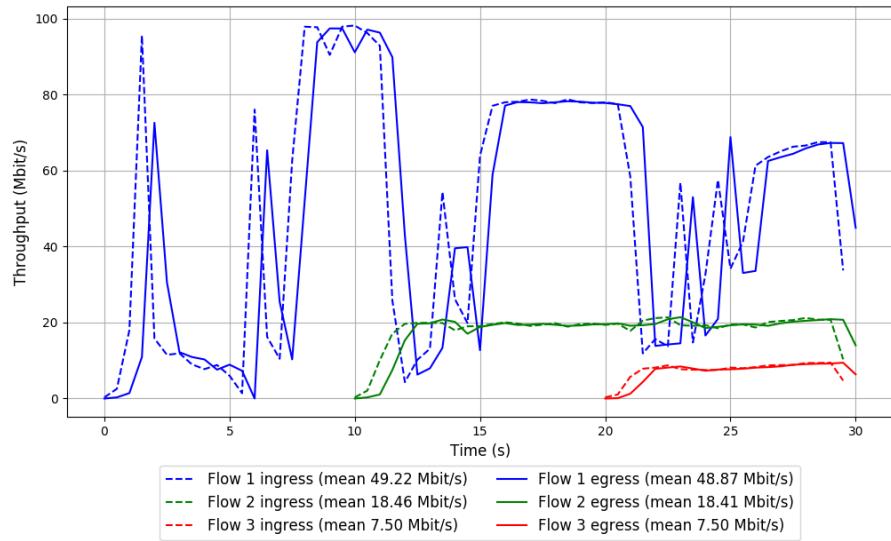


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-02-05 07:53:24
End at: 2019-02-05 07:53:54
Local clock offset: -4.91 ms
Remote clock offset: 2.653 ms

# Below is generated by plot.py at 2019-02-05 09:43:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.52 Mbit/s
95th percentile per-packet one-way delay: 107.224 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 48.87 Mbit/s
95th percentile per-packet one-way delay: 108.249 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 18.41 Mbit/s
95th percentile per-packet one-way delay: 103.725 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 99.485 ms
Loss rate: 0.22%
```

Run 2: Report of QUIC Cubic — Data Link

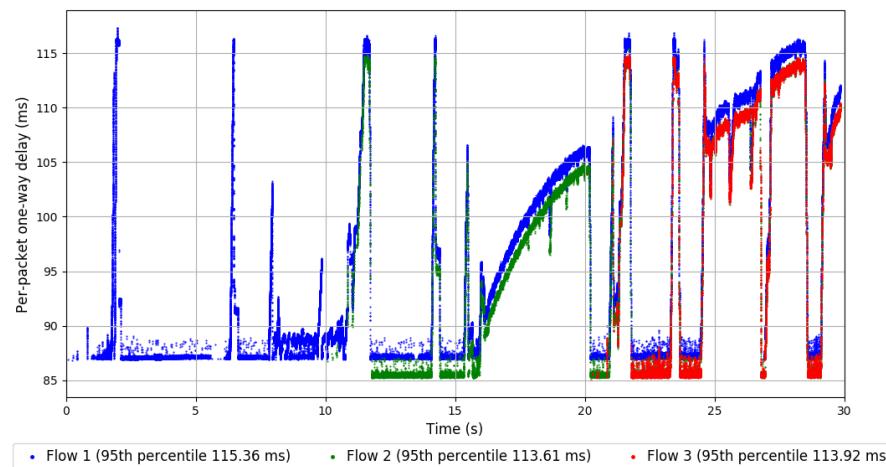
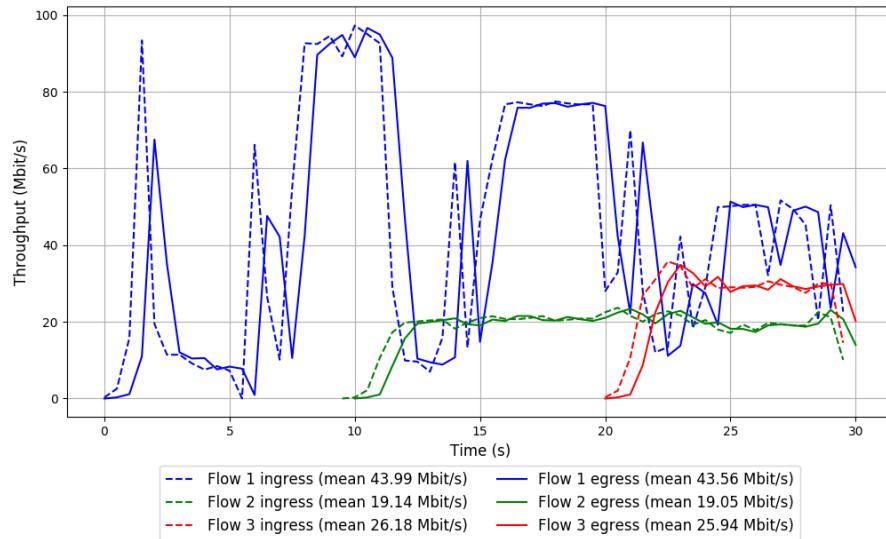


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-02-05 08:20:06
End at: 2019-02-05 08:20:36
Local clock offset: -1.435 ms
Remote clock offset: 6.674 ms

# Below is generated by plot.py at 2019-02-05 09:43:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.68 Mbit/s
95th percentile per-packet one-way delay: 114.665 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 43.56 Mbit/s
95th percentile per-packet one-way delay: 115.358 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 19.05 Mbit/s
95th percentile per-packet one-way delay: 113.612 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 25.94 Mbit/s
95th percentile per-packet one-way delay: 113.920 ms
Loss rate: 0.85%
```

Run 3: Report of QUIC Cubic — Data Link

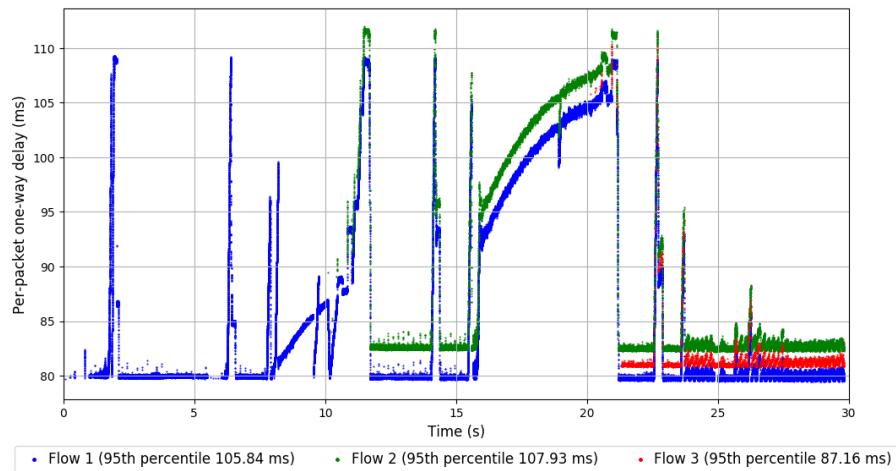
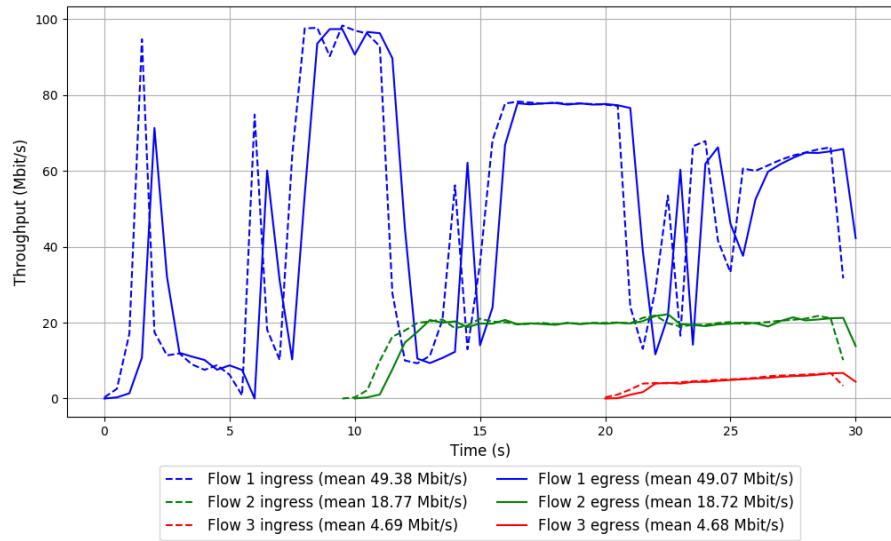


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-02-05 08:46:42
End at: 2019-02-05 08:47:12
Local clock offset: -0.38 ms
Remote clock offset: 0.366 ms

# Below is generated by plot.py at 2019-02-05 09:44:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.01 Mbit/s
95th percentile per-packet one-way delay: 106.689 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 105.837 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 18.72 Mbit/s
95th percentile per-packet one-way delay: 107.926 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 4.68 Mbit/s
95th percentile per-packet one-way delay: 87.163 ms
Loss rate: 0.30%
```

Run 4: Report of QUIC Cubic — Data Link

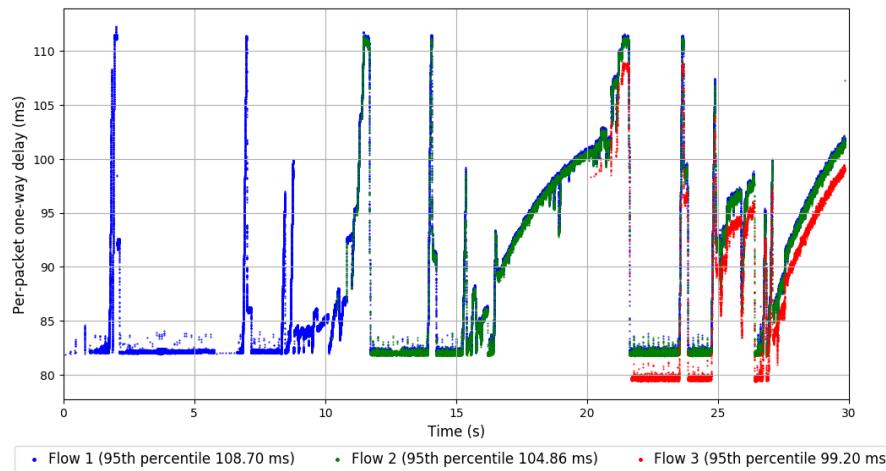
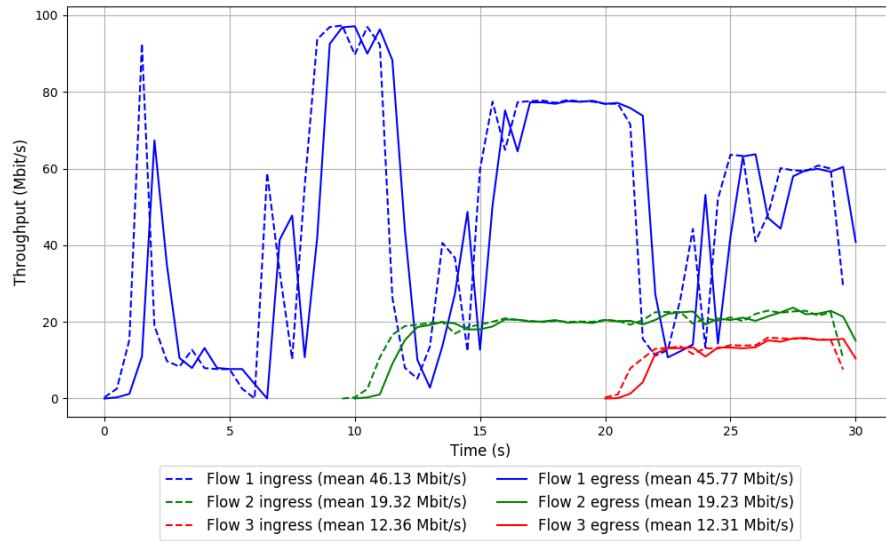


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-02-05 09:13:20
End at: 2019-02-05 09:13:50
Local clock offset: -9.419 ms
Remote clock offset: -1.882 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.55 Mbit/s
95th percentile per-packet one-way delay: 107.312 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 45.77 Mbit/s
95th percentile per-packet one-way delay: 108.698 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 19.23 Mbit/s
95th percentile per-packet one-way delay: 104.855 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 99.200 ms
Loss rate: 0.41%
```

Run 5: Report of QUIC Cubic — Data Link

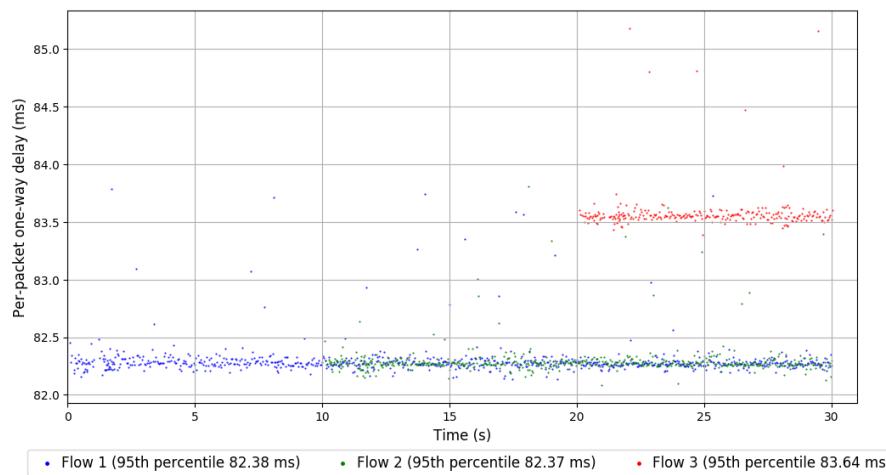
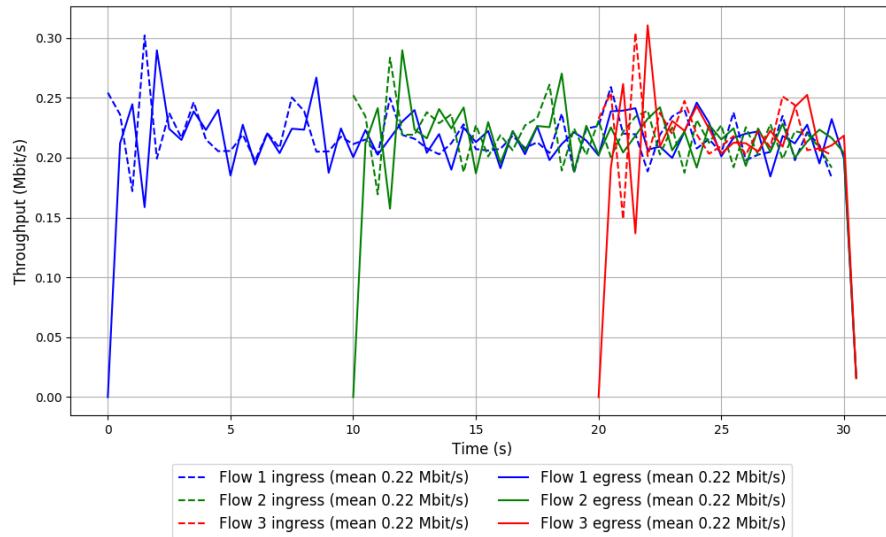


```
Run 1: Statistics of SCReAM

Start at: 2019-02-05 07:30:33
End at: 2019-02-05 07:31:03
Local clock offset: -7.677 ms
Remote clock offset: 5.623 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 83.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.376 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.368 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.644 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

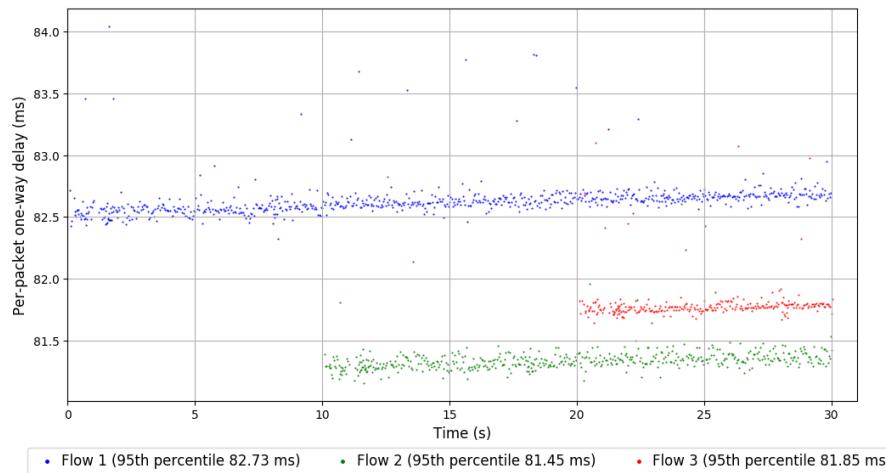
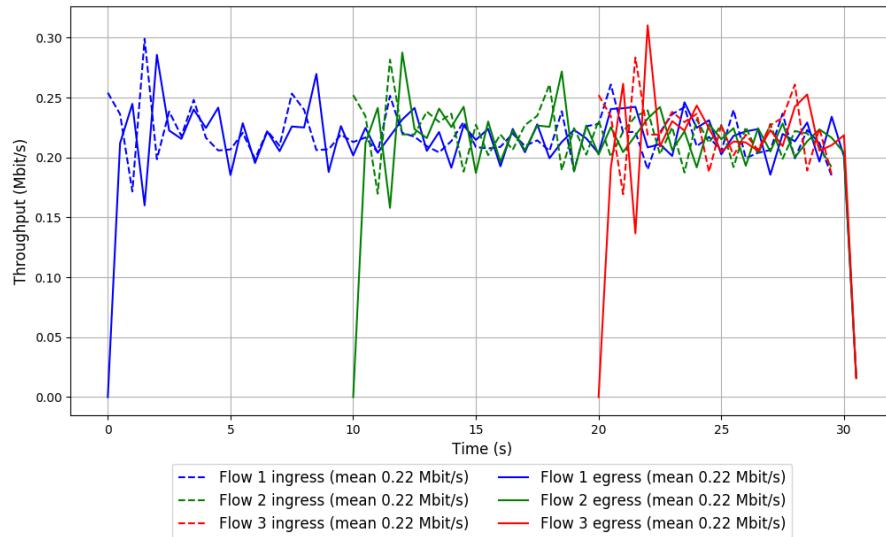


Run 2: Statistics of SCReAM

```
Start at: 2019-02-05 07:57:13
End at: 2019-02-05 07:57:43
Local clock offset: -3.204 ms
Remote clock offset: 2.289 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 82.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.732 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.451 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.850 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

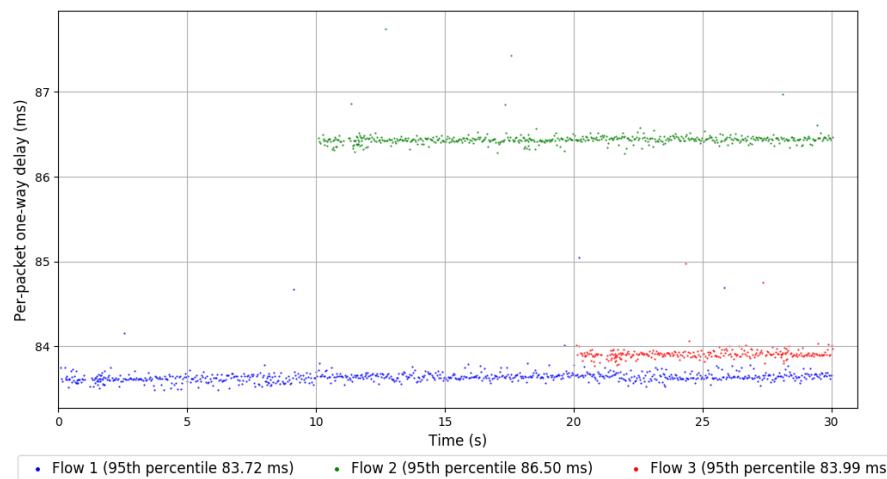
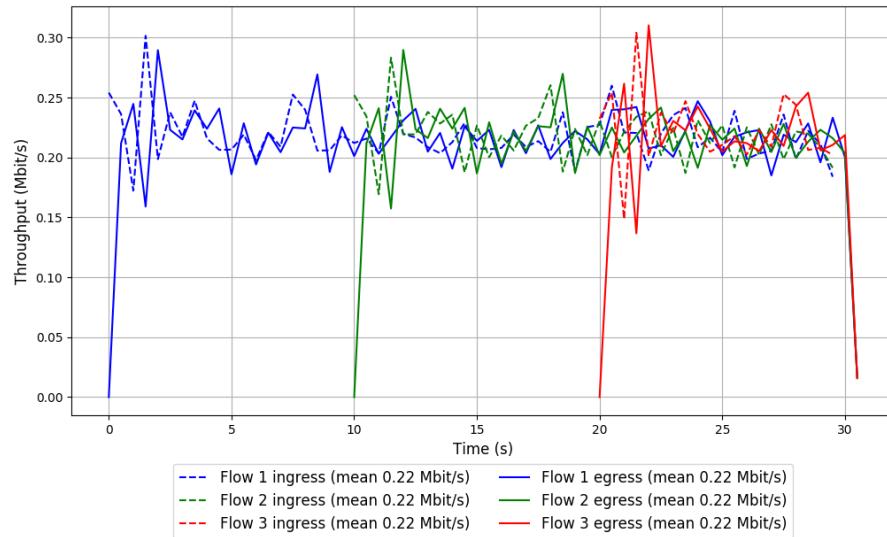


Run 3: Statistics of SCReAM

```
Start at: 2019-02-05 08:23:55
End at: 2019-02-05 08:24:25
Local clock offset: -0.457 ms
Remote clock offset: 5.723 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.724 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.503 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 83.988 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

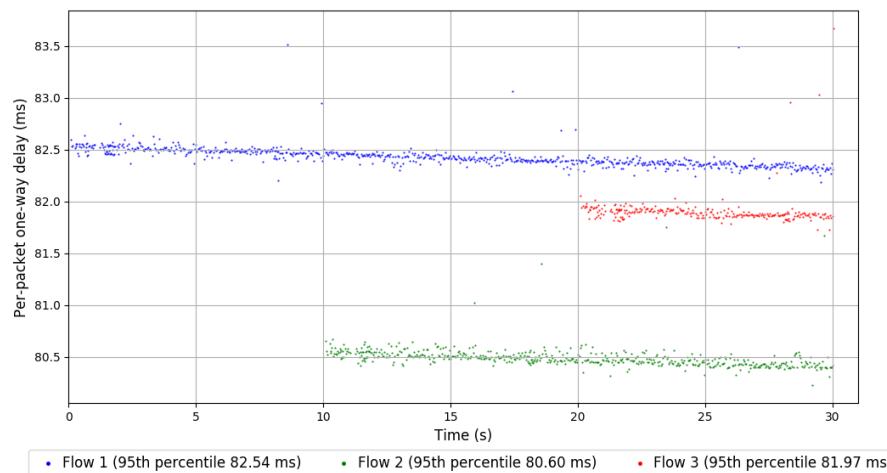
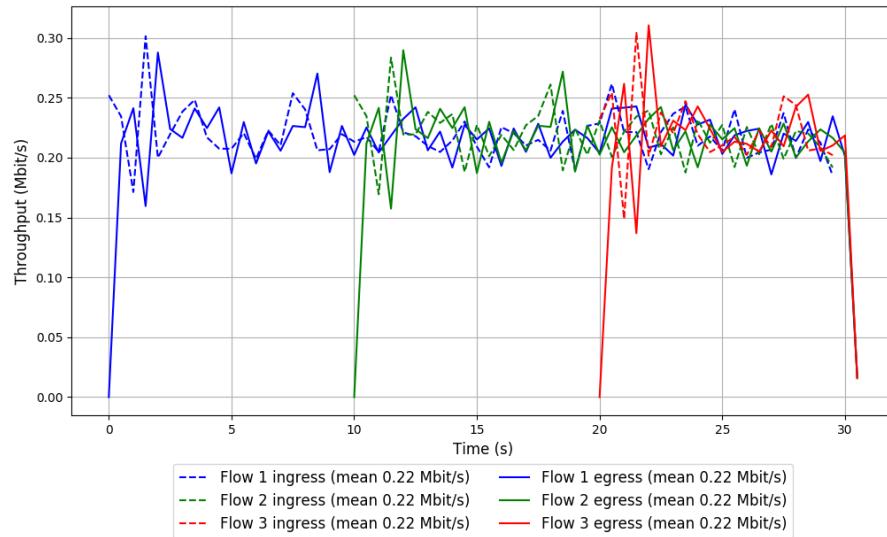


Run 4: Statistics of SCReAM

```
Start at: 2019-02-05 08:50:31
End at: 2019-02-05 08:51:01
Local clock offset: -3.258 ms
Remote clock offset: 0.962 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 82.519 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 82.541 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.596 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 81.967 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

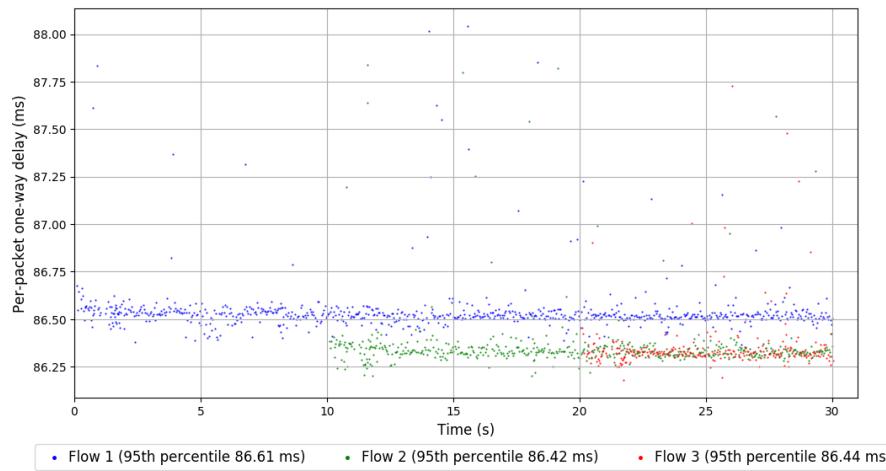
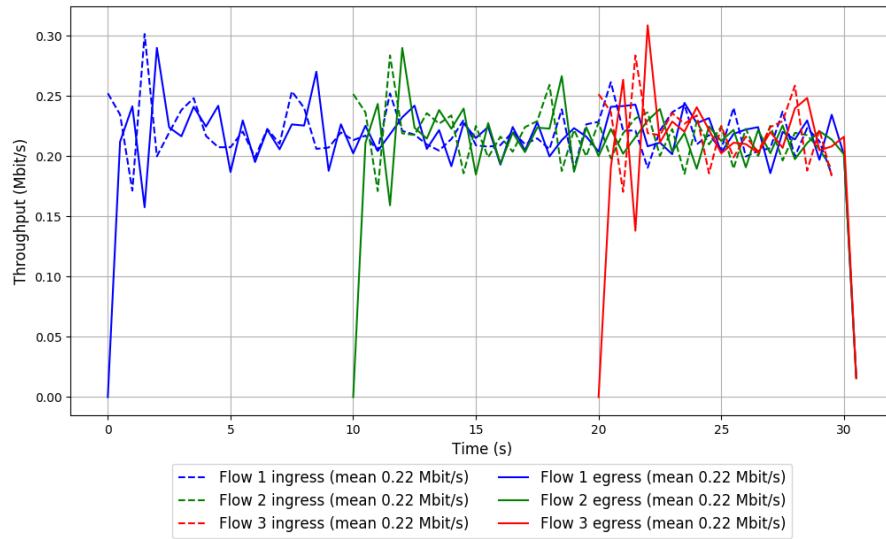


Run 5: Statistics of SCReAM

```
Start at: 2019-02-05 09:17:10
End at: 2019-02-05 09:17:40
Local clock offset: -9.101 ms
Remote clock offset: 3.109 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 86.590 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.610 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.417 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.435 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

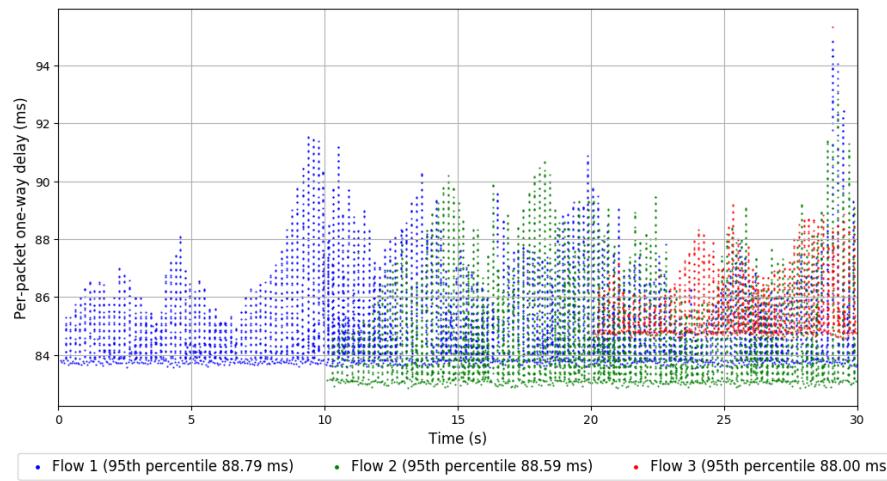
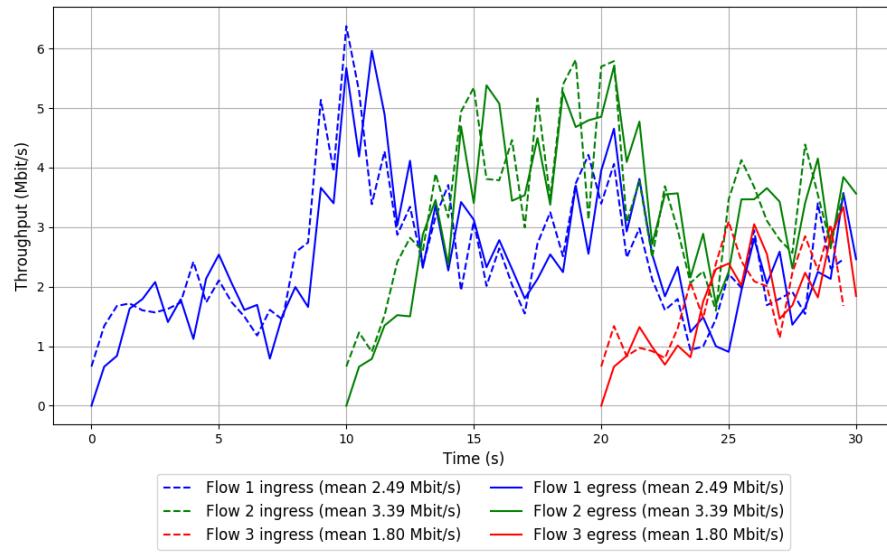


Run 1: Statistics of Sprout

```
Start at: 2019-02-05 07:31:45
End at: 2019-02-05 07:32:15
Local clock offset: -7.705 ms
Remote clock offset: 8.245 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 88.564 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 88.787 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 88.594 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 88.004 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

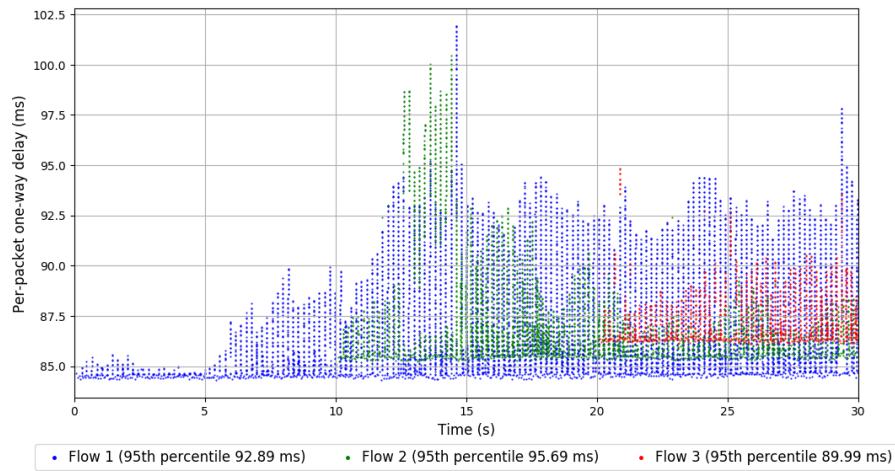
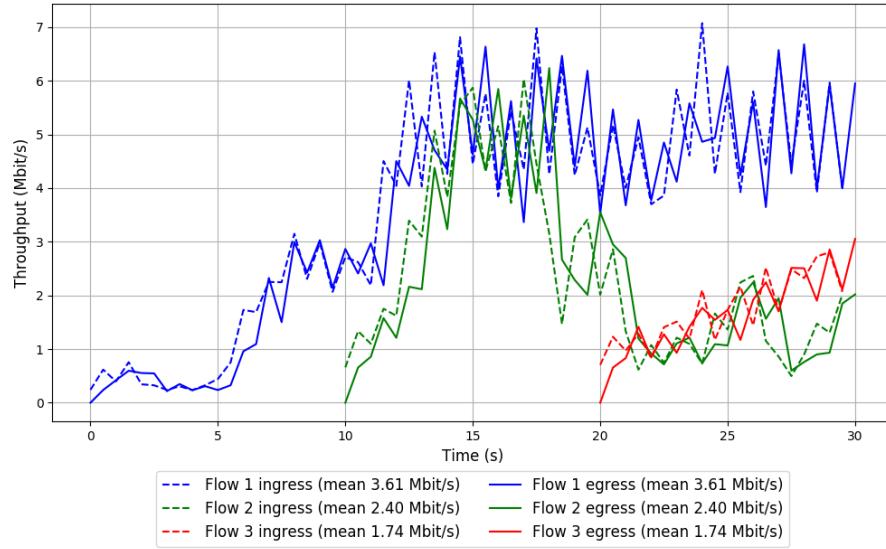


Run 2: Statistics of Sprout

```
Start at: 2019-02-05 07:58:25
End at: 2019-02-05 07:58:55
Local clock offset: -3.792 ms
Remote clock offset: 6.032 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 93.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.61 Mbit/s
95th percentile per-packet one-way delay: 92.888 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 95.694 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 89.992 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

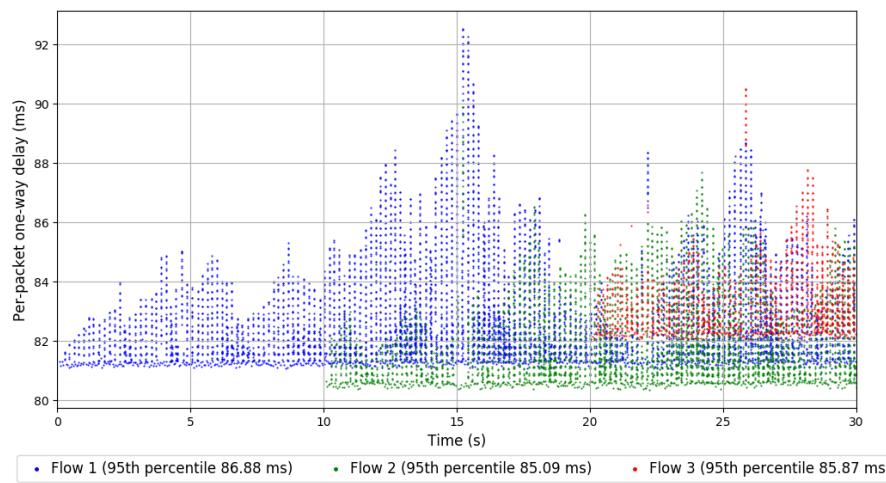
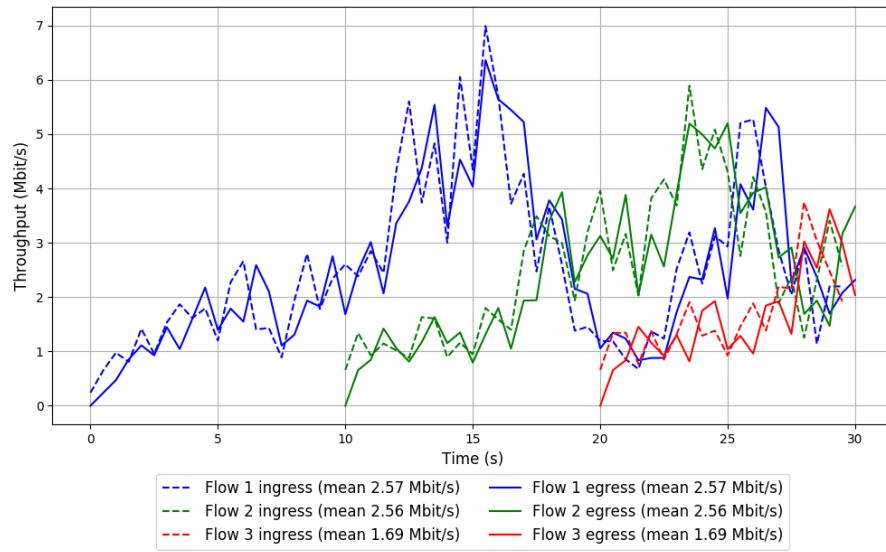


Run 3: Statistics of Sprout

```
Start at: 2019-02-05 08:25:08
End at: 2019-02-05 08:25:38
Local clock offset: -1.208 ms
Remote clock offset: 1.898 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 86.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 86.881 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 85.086 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 85.866 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

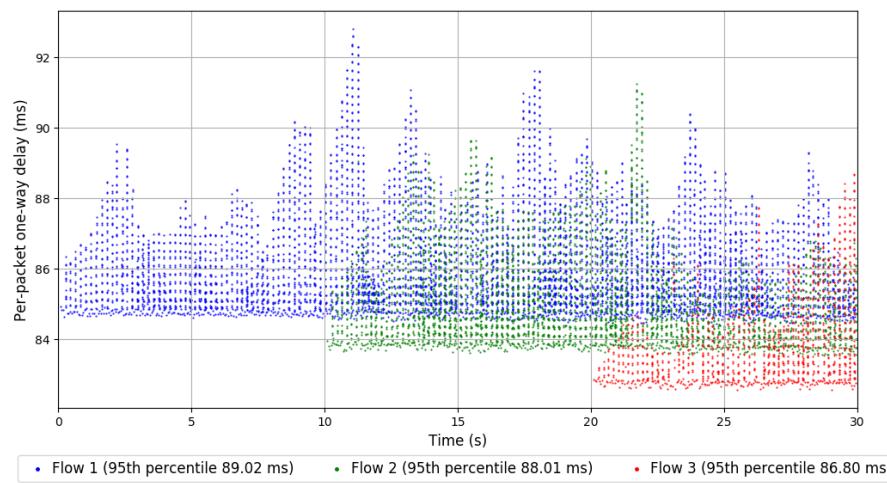
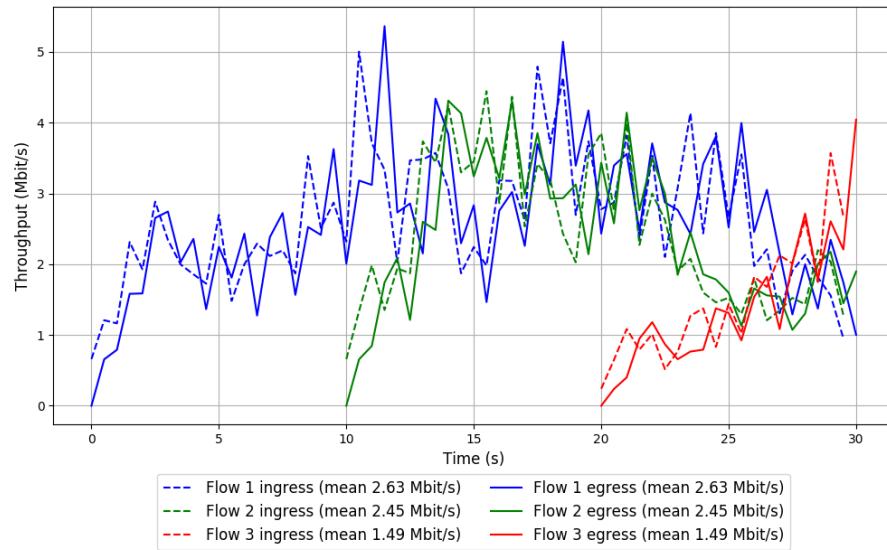


Run 4: Statistics of Sprout

```
Start at: 2019-02-05 08:51:43
End at: 2019-02-05 08:52:13
Local clock offset: -3.257 ms
Remote clock offset: 3.407 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 88.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 89.018 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.45 Mbit/s
95th percentile per-packet one-way delay: 88.008 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 86.797 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

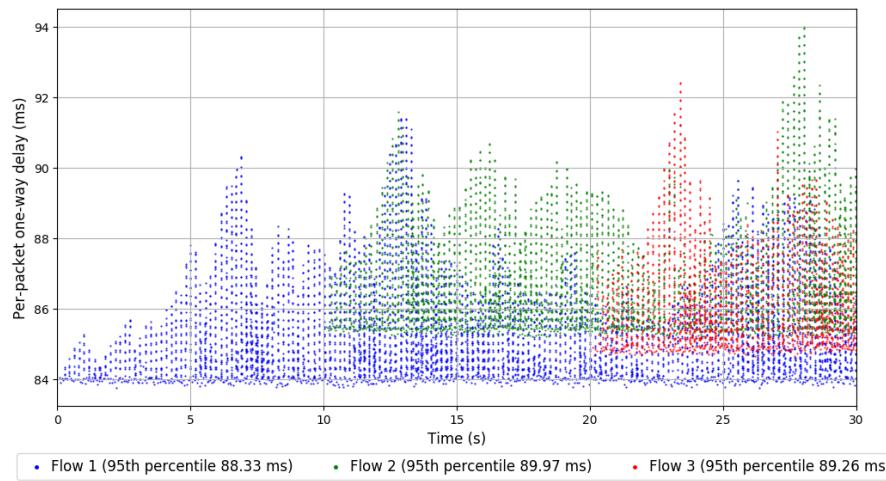
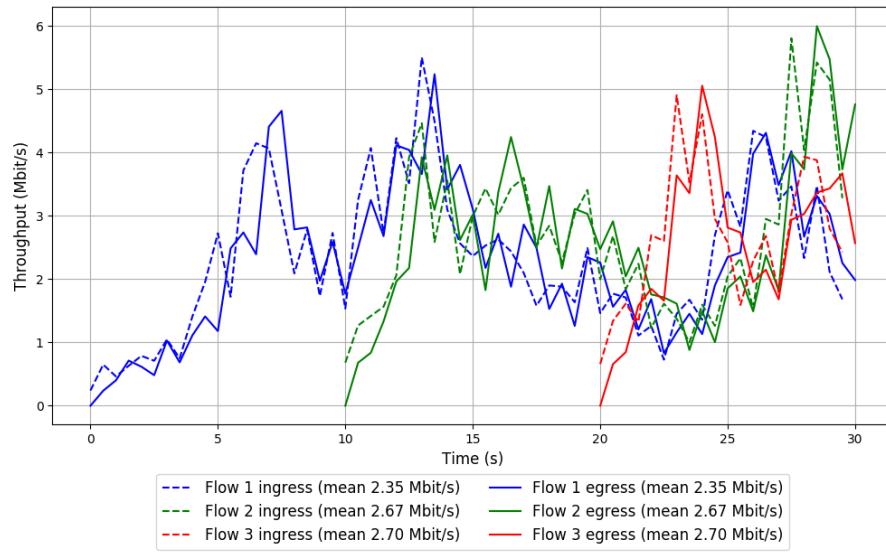


Run 5: Statistics of Sprout

```
Start at: 2019-02-05 09:18:22
End at: 2019-02-05 09:18:52
Local clock offset: -9.242 ms
Remote clock offset: 3.104 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.01 Mbit/s
95th percentile per-packet one-way delay: 89.287 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 88.332 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 89.973 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 89.261 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

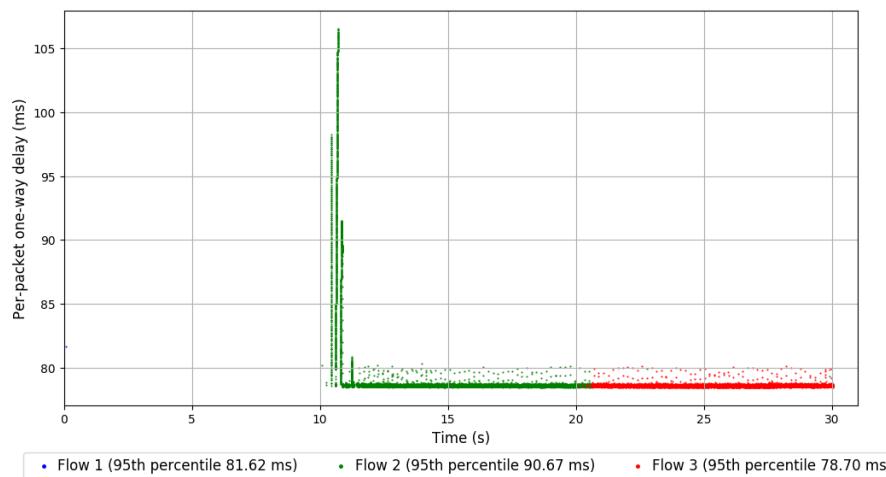
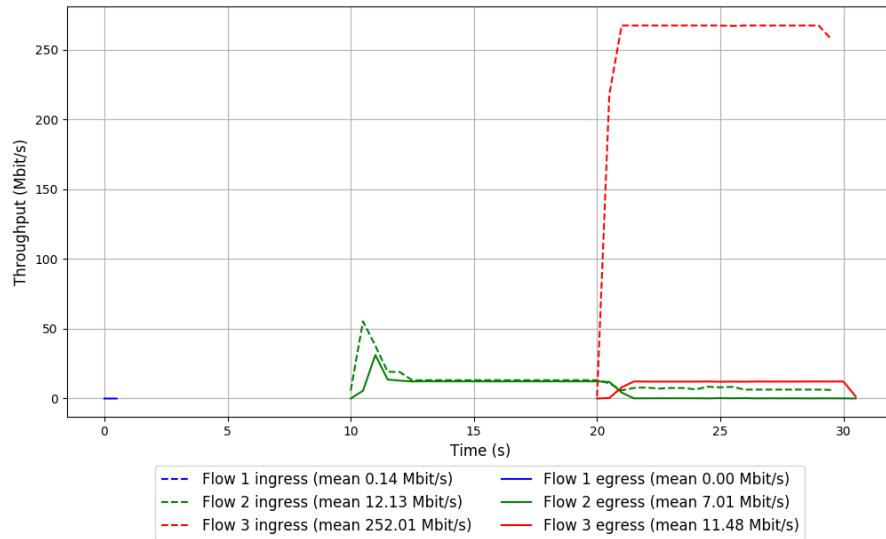


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-02-05 07:25:29
End at: 2019-02-05 07:25:59
Local clock offset: -6.804 ms
Remote clock offset: 4.249 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 85.017 ms
Loss rate: 90.77%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 81.624 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 7.01 Mbit/s
95th percentile per-packet one-way delay: 90.670 ms
Loss rate: 42.31%
-- Flow 3:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 78.699 ms
Loss rate: 95.44%
```

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

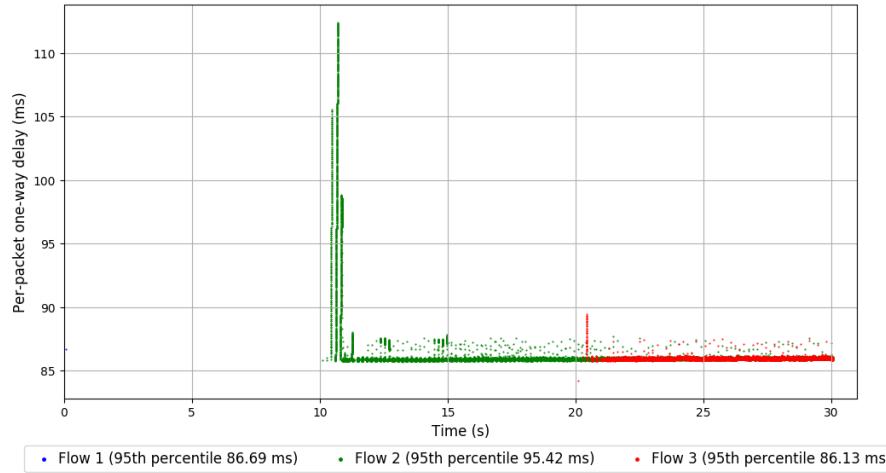
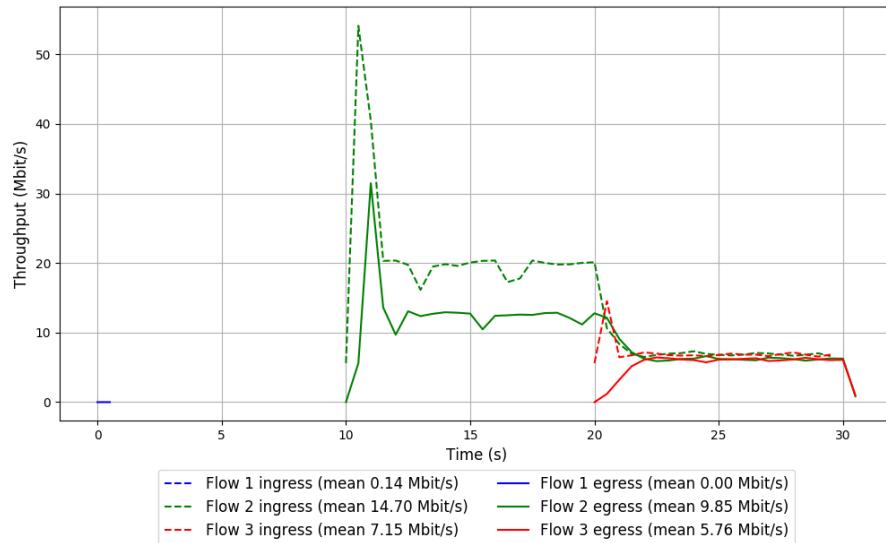


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-02-05 07:52:10
End at: 2019-02-05 07:52:40
Local clock offset: -4.585 ms
Remote clock offset: 6.667 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 91.766 ms
Loss rate: 30.34%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 86.695 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 95.419 ms
Loss rate: 32.97%
-- Flow 3:
Average throughput: 5.76 Mbit/s
95th percentile per-packet one-way delay: 86.127 ms
Loss rate: 19.48%
```

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

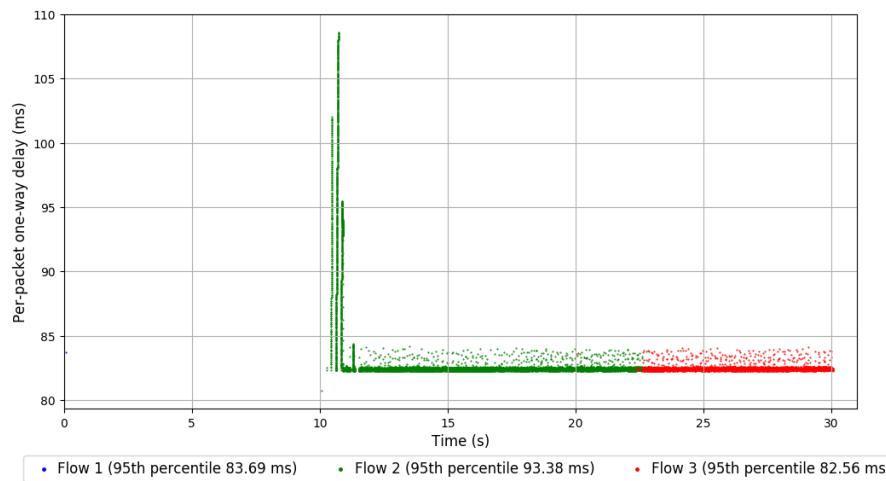
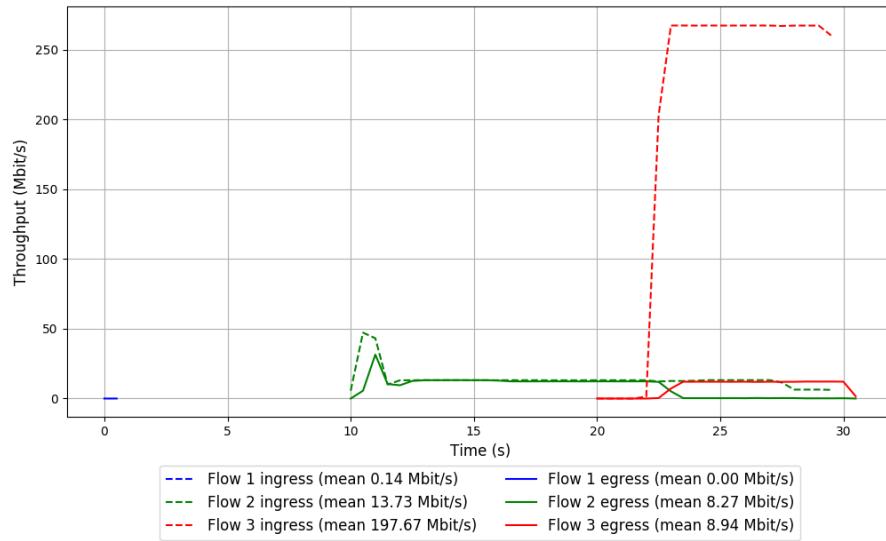


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-02-05 08:18:52
End at: 2019-02-05 08:19:22
Local clock offset: -1.586 ms
Remote clock offset: 1.915 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 88.359 ms
Loss rate: 88.68%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 83.692 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 8.27 Mbit/s
95th percentile per-packet one-way delay: 93.378 ms
Loss rate: 39.81%
-- Flow 3:
Average throughput: 8.94 Mbit/s
95th percentile per-packet one-way delay: 82.558 ms
Loss rate: 95.48%
```

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

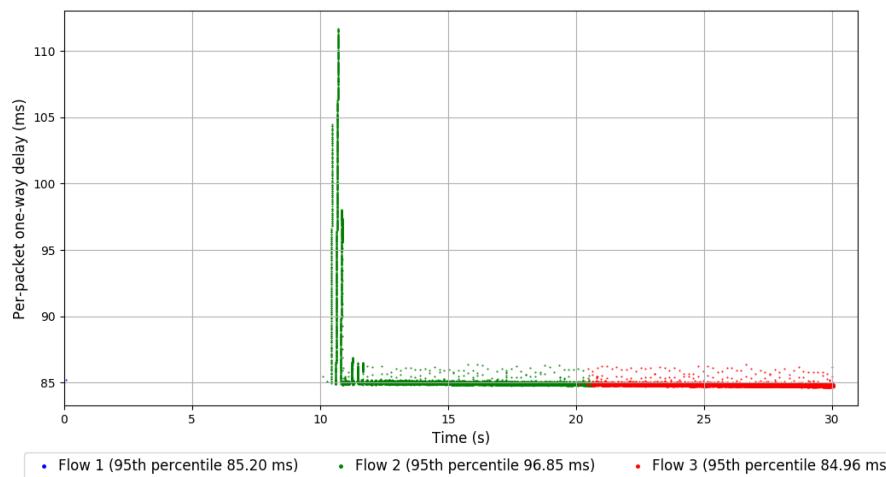
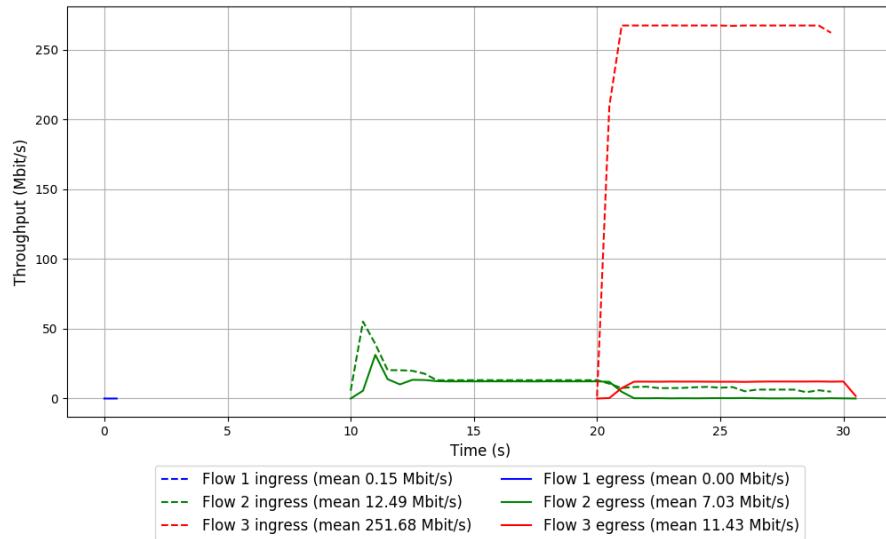


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-02-05 08:45:28
End at: 2019-02-05 08:45:58
Local clock offset: 0.769 ms
Remote clock offset: 6.688 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 90.851 ms
Loss rate: 90.78%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 85.202 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 96.852 ms
Loss rate: 43.75%
-- Flow 3:
Average throughput: 11.43 Mbit/s
95th percentile per-packet one-way delay: 84.964 ms
Loss rate: 95.46%
```

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

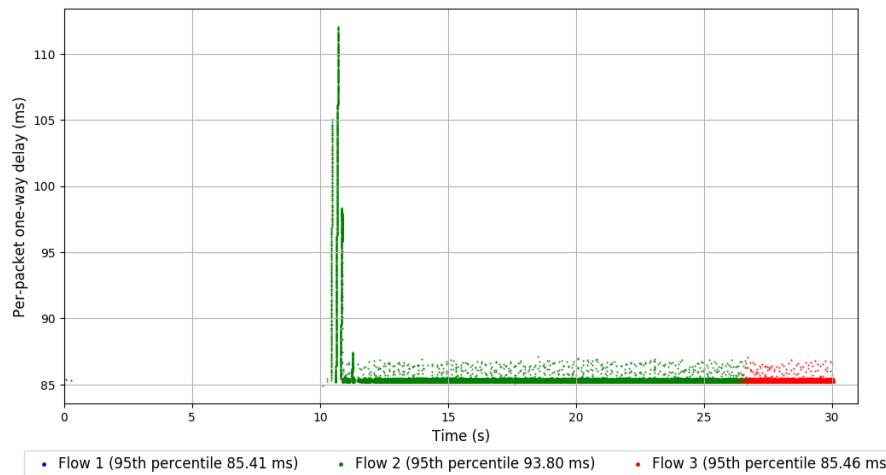
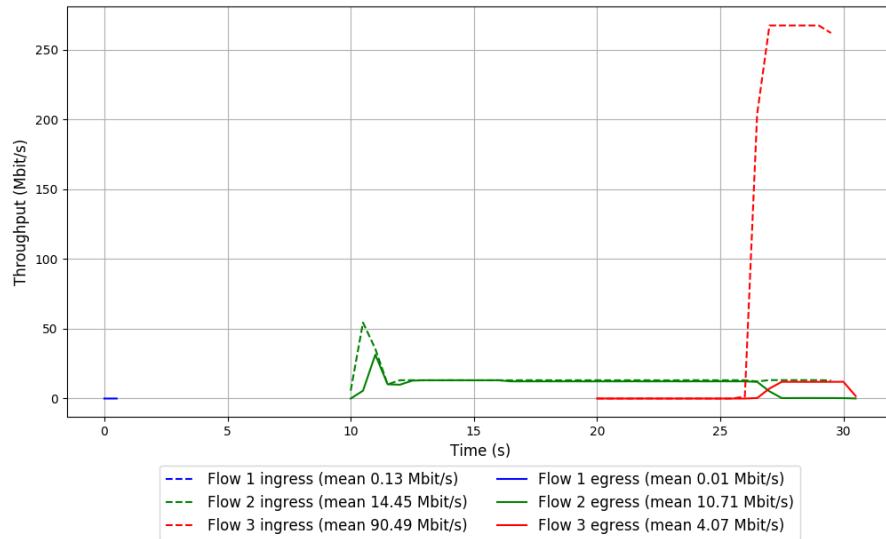


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-02-05 09:12:06
End at: 2019-02-05 09:12:36
Local clock offset: -8.589 ms
Remote clock offset: 3.119 ms

# Below is generated by plot.py at 2019-02-05 09:44:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 91.244 ms
Loss rate: 78.65%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 85.409 ms
Loss rate: 92.16%
-- Flow 2:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 93.797 ms
Loss rate: 26.01%
-- Flow 3:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 85.456 ms
Loss rate: 95.50%
```

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

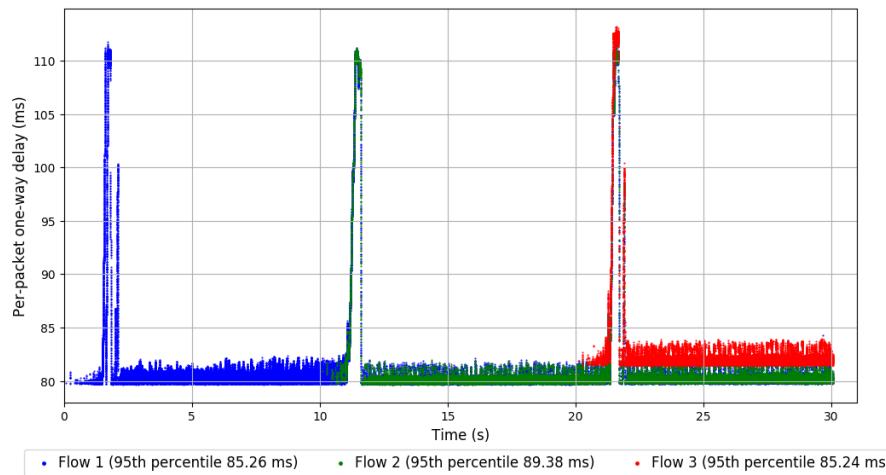
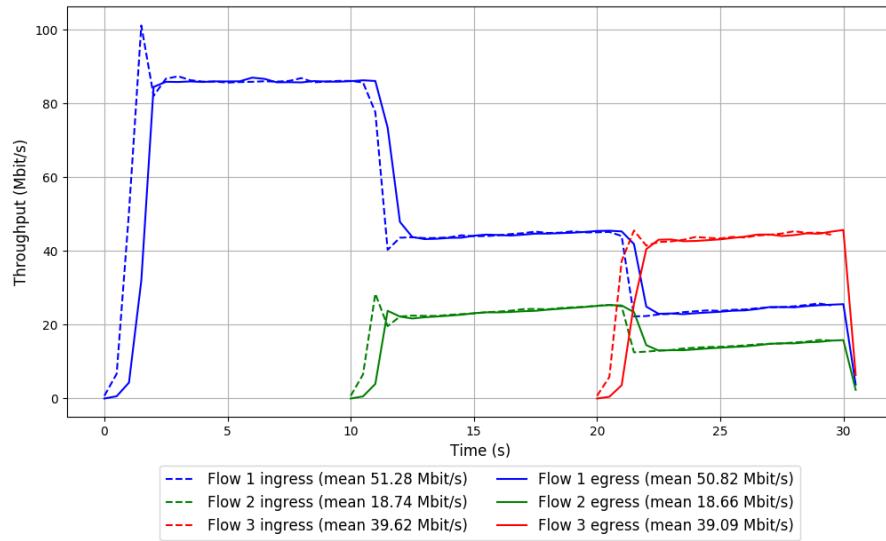


Run 1: Statistics of TCP Vegas

```
Start at: 2019-02-05 07:44:22
End at: 2019-02-05 07:44:52
Local clock offset: -7.279 ms
Remote clock offset: 3.539 ms

# Below is generated by plot.py at 2019-02-05 09:44:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.24 Mbit/s
95th percentile per-packet one-way delay: 85.642 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 50.82 Mbit/s
95th percentile per-packet one-way delay: 85.259 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 18.66 Mbit/s
95th percentile per-packet one-way delay: 89.379 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 39.09 Mbit/s
95th percentile per-packet one-way delay: 85.241 ms
Loss rate: 1.36%
```

Run 1: Report of TCP Vegas — Data Link

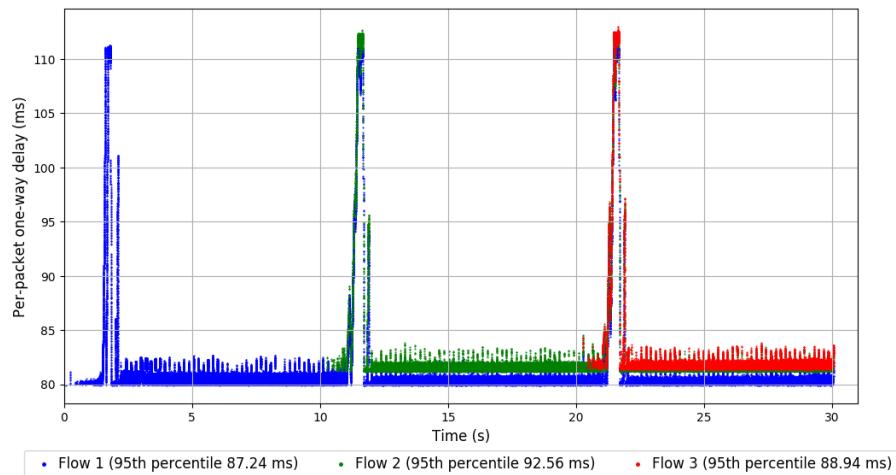
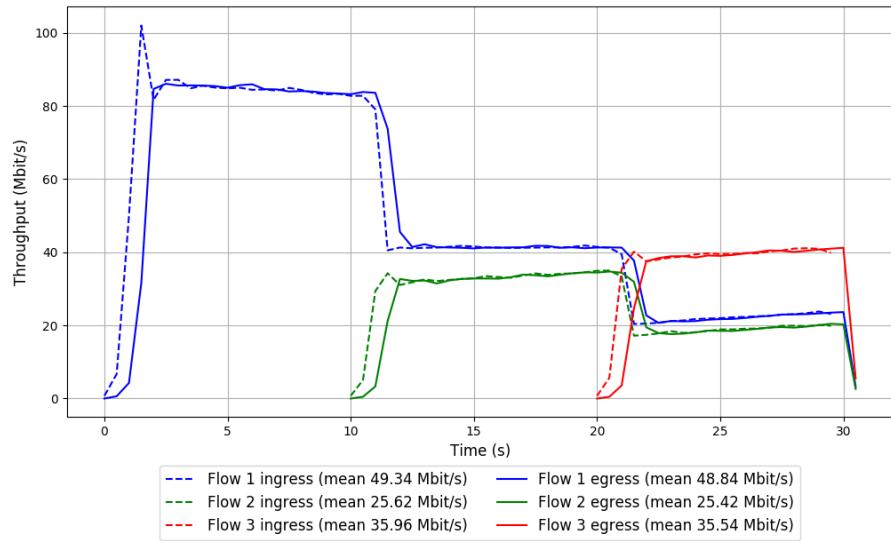


Run 2: Statistics of TCP Vegas

```
Start at: 2019-02-05 08:11:07
End at: 2019-02-05 08:11:37
Local clock offset: -2.191 ms
Remote clock offset: 0.54 ms

# Below is generated by plot.py at 2019-02-05 09:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 88.521 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 48.84 Mbit/s
95th percentile per-packet one-way delay: 87.236 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 25.42 Mbit/s
95th percentile per-packet one-way delay: 92.561 ms
Loss rate: 0.80%
-- Flow 3:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 88.945 ms
Loss rate: 1.16%
```

Run 2: Report of TCP Vegas — Data Link

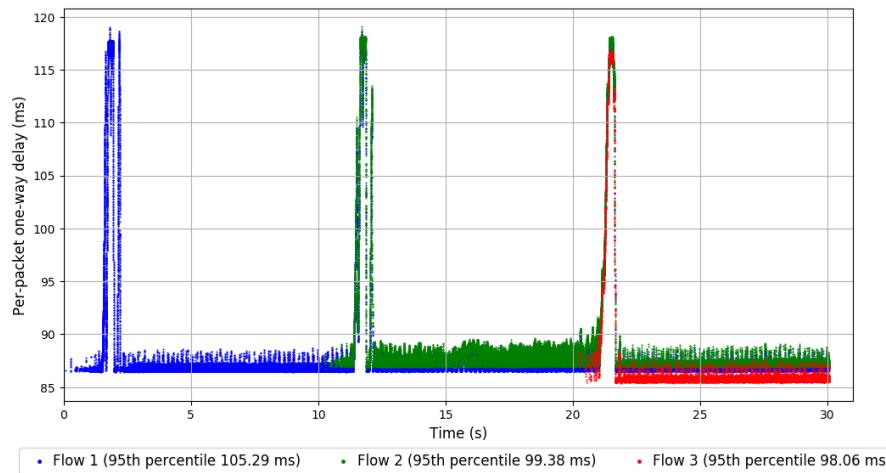
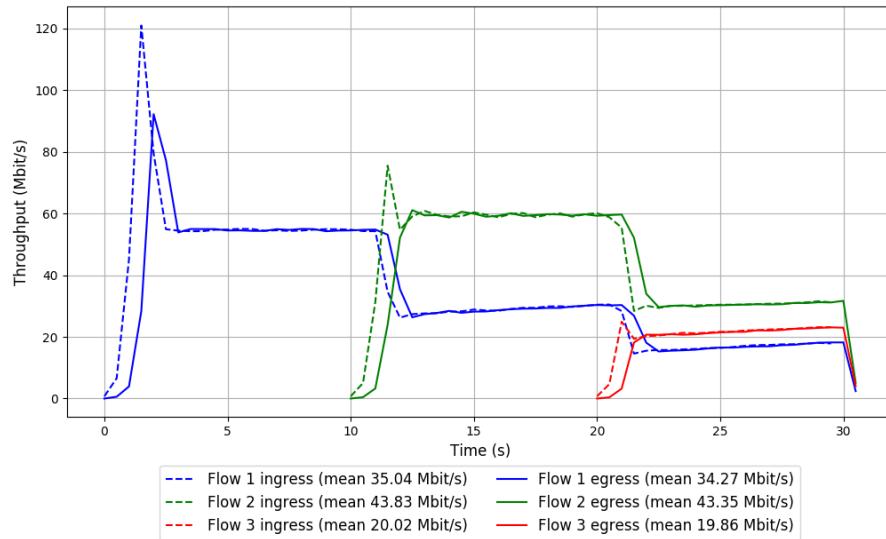


Run 3: Statistics of TCP Vegas

```
Start at: 2019-02-05 08:37:44
End at: 2019-02-05 08:38:14
Local clock offset: -0.38 ms
Remote clock offset: 5.692 ms

# Below is generated by plot.py at 2019-02-05 09:44:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 69.75 Mbit/s
95th percentile per-packet one-way delay: 102.525 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 34.27 Mbit/s
95th percentile per-packet one-way delay: 105.293 ms
Loss rate: 2.21%
-- Flow 2:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 99.380 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 19.86 Mbit/s
95th percentile per-packet one-way delay: 98.059 ms
Loss rate: 0.81%
```

Run 3: Report of TCP Vegas — Data Link

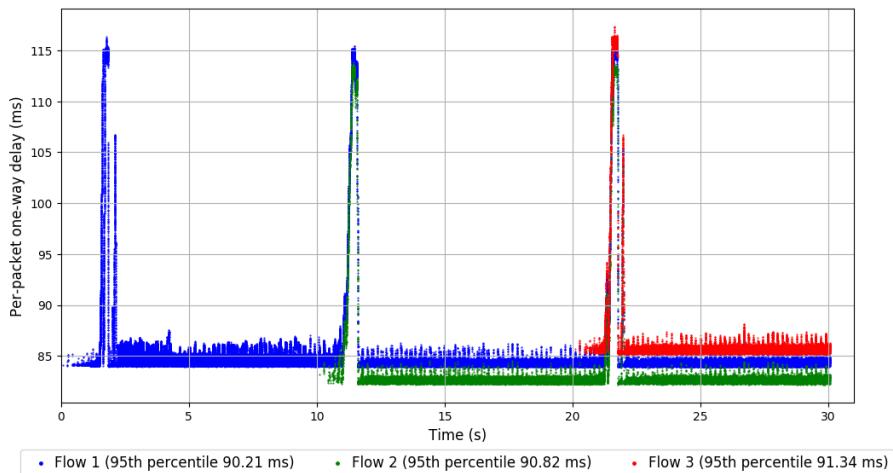
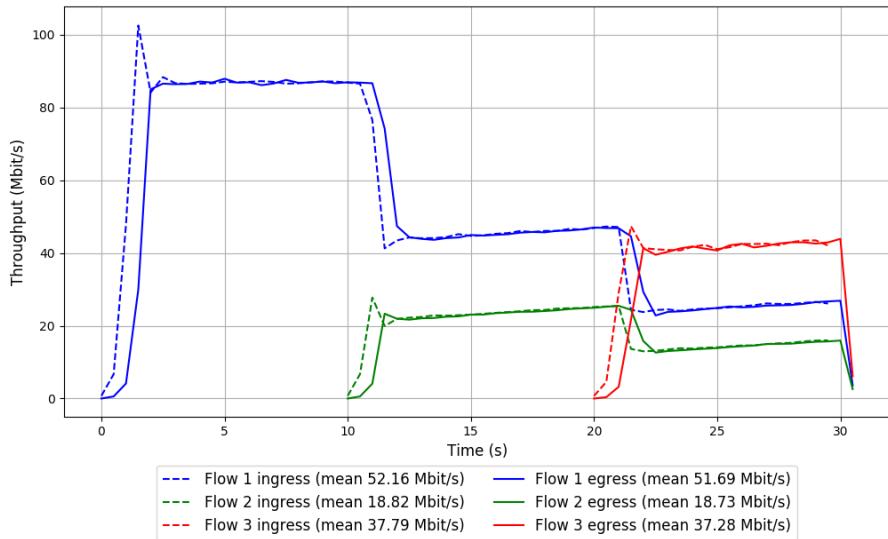


Run 4: Statistics of TCP Vegas

```
Start at: 2019-02-05 09:04:19
End at: 2019-02-05 09:04:49
Local clock offset: -7.319 ms
Remote clock offset: 2.384 ms

# Below is generated by plot.py at 2019-02-05 09:44:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.57 Mbit/s
95th percentile per-packet one-way delay: 90.389 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 51.69 Mbit/s
95th percentile per-packet one-way delay: 90.213 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 18.73 Mbit/s
95th percentile per-packet one-way delay: 90.820 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 37.28 Mbit/s
95th percentile per-packet one-way delay: 91.344 ms
Loss rate: 1.37%
```

Run 4: Report of TCP Vegas — Data Link

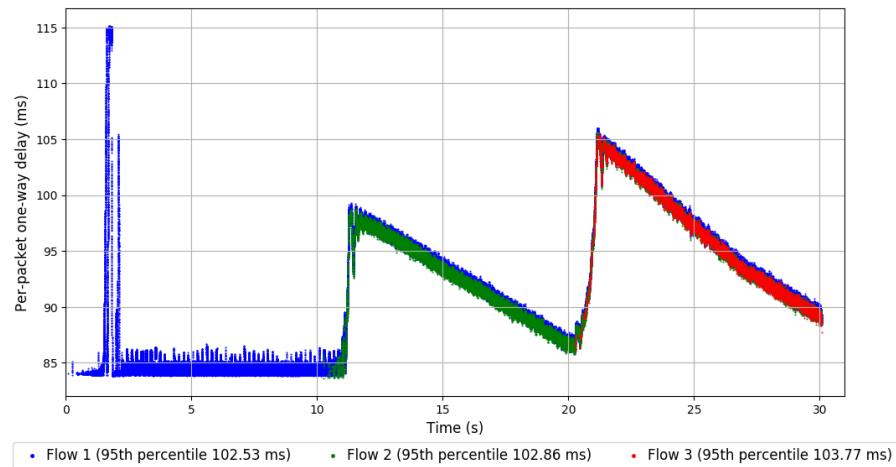
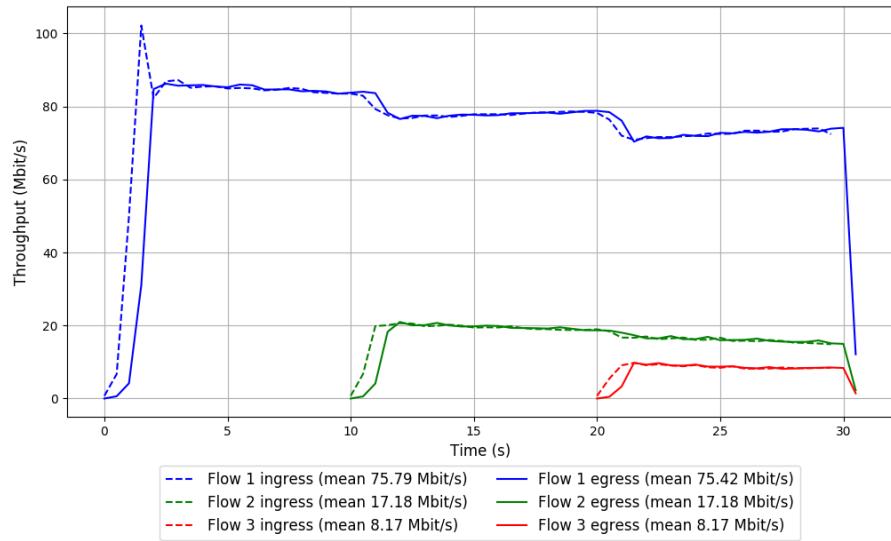


Run 5: Statistics of TCP Vegas

```
Start at: 2019-02-05 09:30:57
End at: 2019-02-05 09:31:27
Local clock offset: -10.465 ms
Remote clock offset: 3.266 ms

# Below is generated by plot.py at 2019-02-05 09:44:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.57 Mbit/s
95th percentile per-packet one-way delay: 102.750 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 75.42 Mbit/s
95th percentile per-packet one-way delay: 102.531 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 17.18 Mbit/s
95th percentile per-packet one-way delay: 102.862 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 103.766 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link

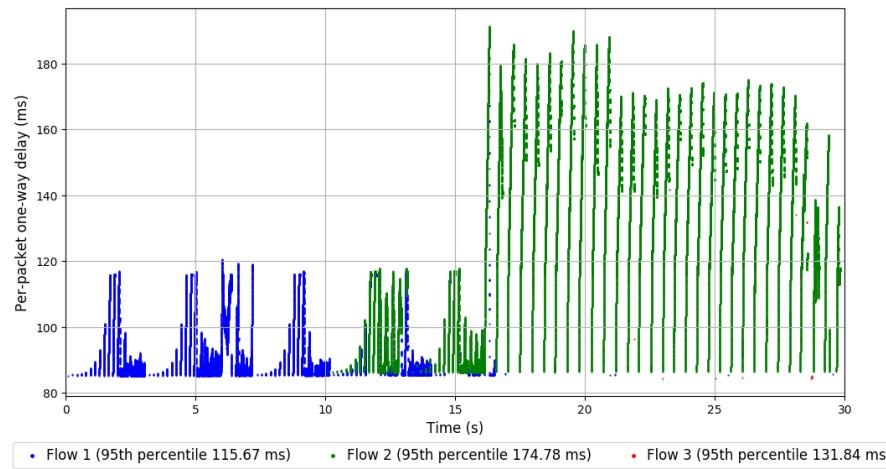
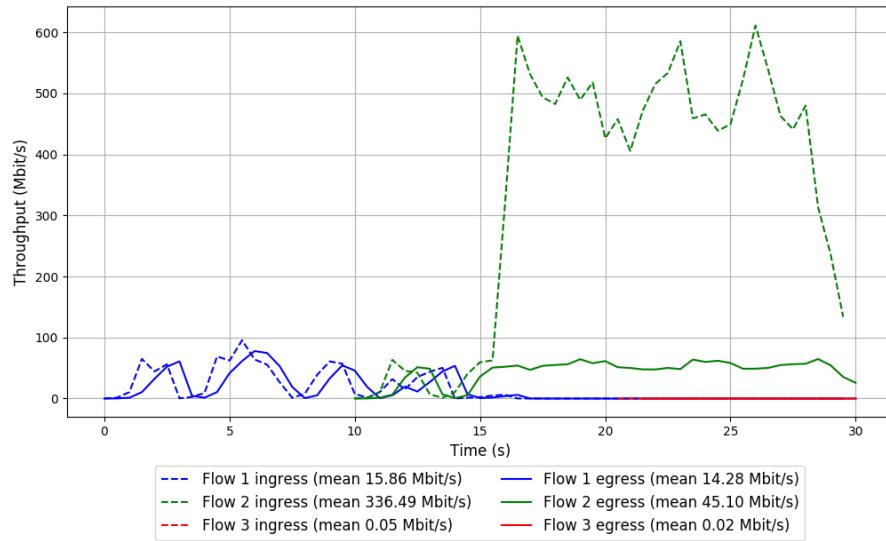


Run 1: Statistics of Verus

```
Start at: 2019-02-05 07:46:57
End at: 2019-02-05 07:47:27
Local clock offset: -6.89 ms
Remote clock offset: 7.056 ms

# Below is generated by plot.py at 2019-02-05 09:45:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.06 Mbit/s
95th percentile per-packet one-way delay: 171.788 ms
Loss rate: 81.54%
-- Flow 1:
Average throughput: 14.28 Mbit/s
95th percentile per-packet one-way delay: 115.667 ms
Loss rate: 10.52%
-- Flow 2:
Average throughput: 45.10 Mbit/s
95th percentile per-packet one-way delay: 174.784 ms
Loss rate: 86.57%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 131.840 ms
Loss rate: 57.14%
```

Run 1: Report of Verus — Data Link

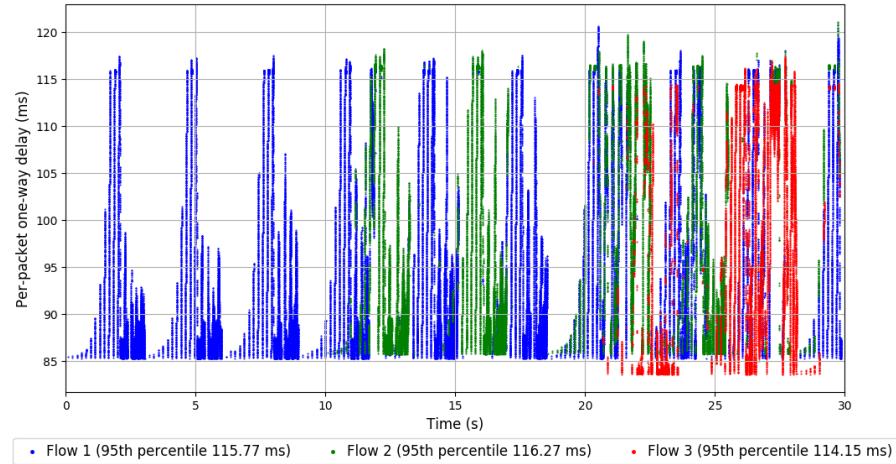
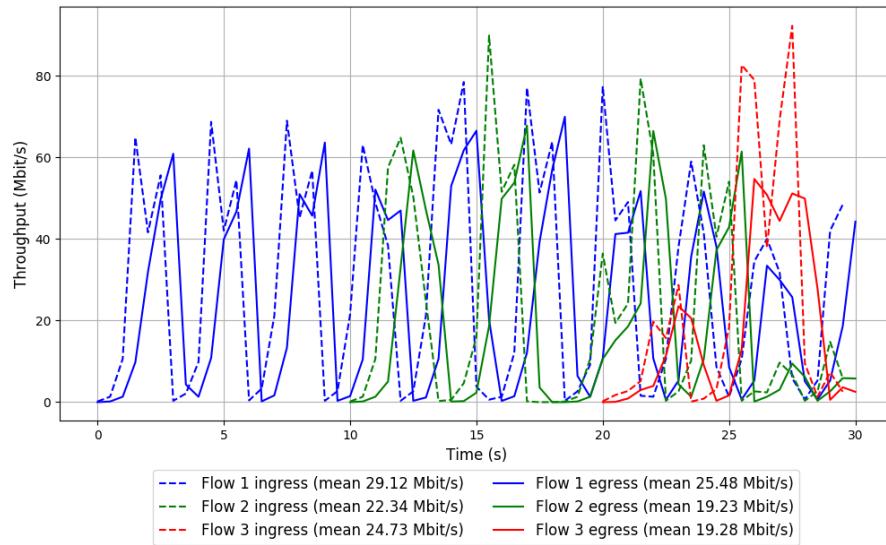


Run 2: Statistics of Verus

```
Start at: 2019-02-05 08:13:41
End at: 2019-02-05 08:14:11
Local clock offset: -1.165 ms
Remote clock offset: 5.561 ms

# Below is generated by plot.py at 2019-02-05 09:45:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 115.821 ms
Loss rate: 14.37%
-- Flow 1:
Average throughput: 25.48 Mbit/s
95th percentile per-packet one-way delay: 115.765 ms
Loss rate: 12.54%
-- Flow 2:
Average throughput: 19.23 Mbit/s
95th percentile per-packet one-way delay: 116.274 ms
Loss rate: 13.84%
-- Flow 3:
Average throughput: 19.28 Mbit/s
95th percentile per-packet one-way delay: 114.146 ms
Loss rate: 21.98%
```

Run 2: Report of Verus — Data Link

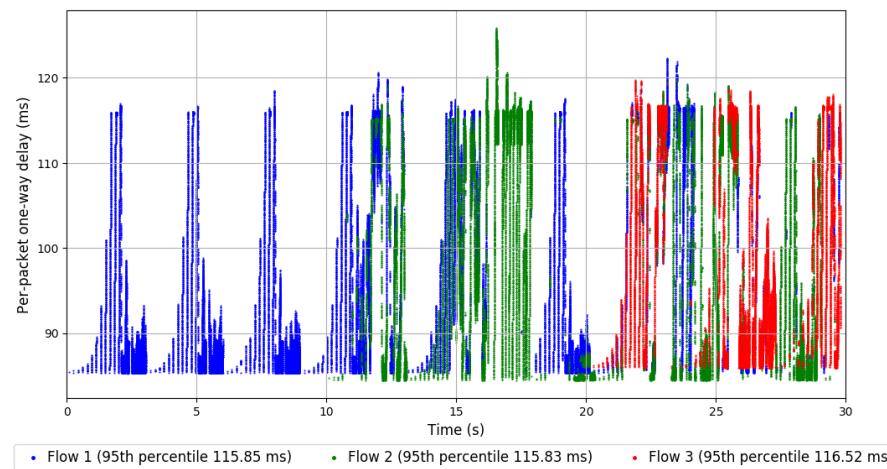
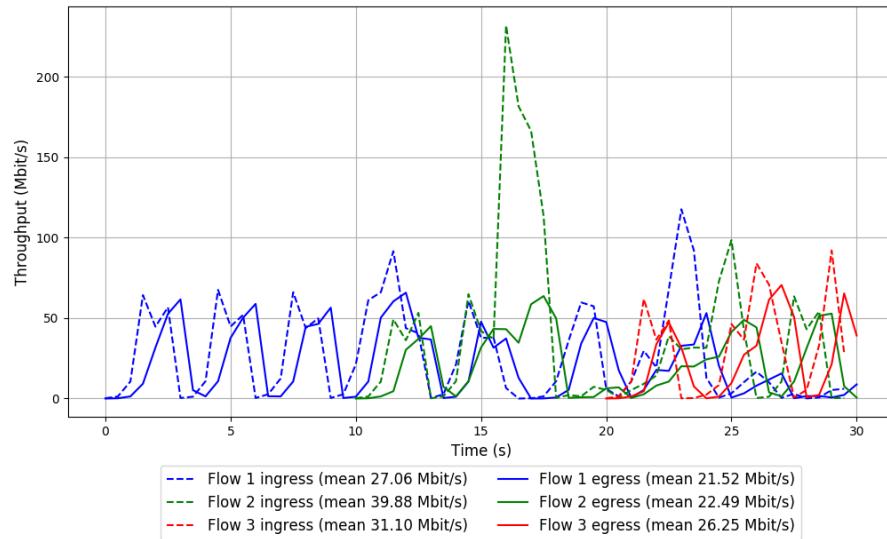


Run 3: Statistics of Verus

```
Start at: 2019-02-05 08:40:18
End at: 2019-02-05 08:40:48
Local clock offset: -0.218 ms
Remote clock offset: 4.505 ms

# Below is generated by plot.py at 2019-02-05 09:45:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 44.94 Mbit/s
95th percentile per-packet one-way delay: 115.955 ms
Loss rate: 29.21%
-- Flow 1:
Average throughput: 21.52 Mbit/s
95th percentile per-packet one-way delay: 115.853 ms
Loss rate: 20.36%
-- Flow 2:
Average throughput: 22.49 Mbit/s
95th percentile per-packet one-way delay: 115.834 ms
Loss rate: 43.54%
-- Flow 3:
Average throughput: 26.25 Mbit/s
95th percentile per-packet one-way delay: 116.515 ms
Loss rate: 15.52%
```

Run 3: Report of Verus — Data Link

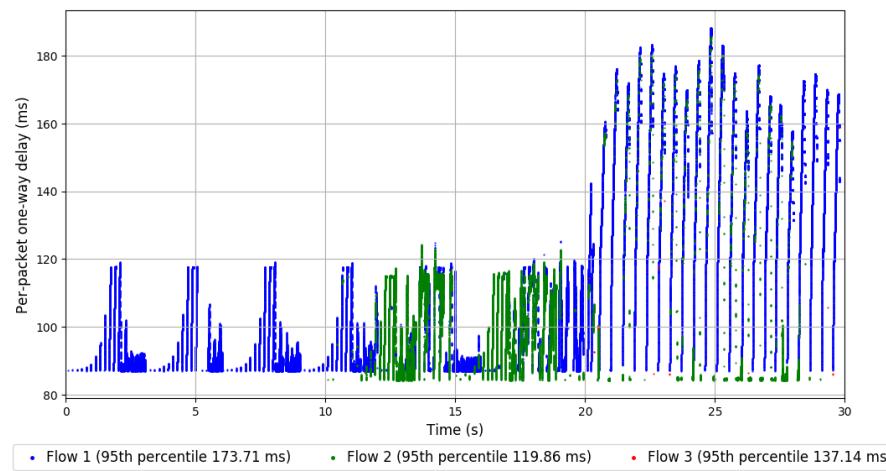
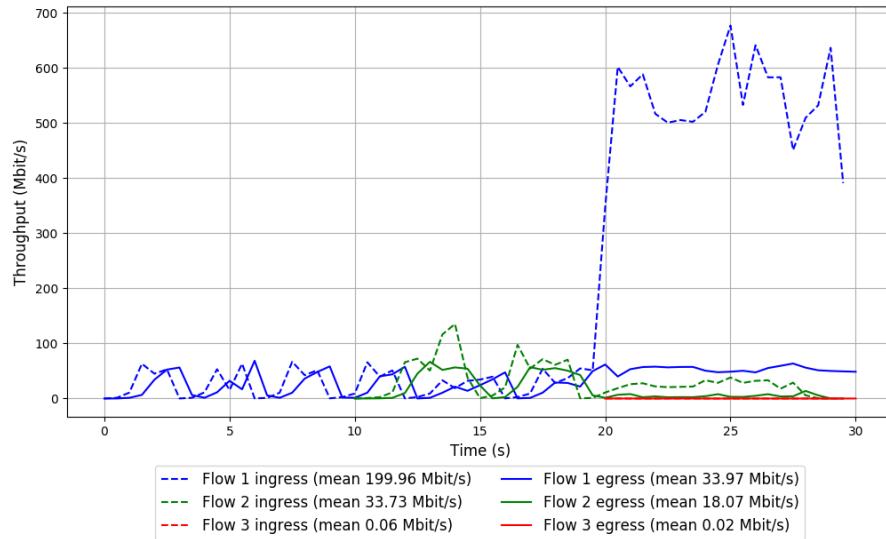


Run 4: Statistics of Verus

```
Start at: 2019-02-05 09:06:53
End at: 2019-02-05 09:07:23
Local clock offset: -7.774 ms
Remote clock offset: 3.363 ms

# Below is generated by plot.py at 2019-02-05 09:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.52 Mbit/s
95th percentile per-packet one-way delay: 171.559 ms
Loss rate: 79.43%
-- Flow 1:
Average throughput: 33.97 Mbit/s
95th percentile per-packet one-way delay: 173.710 ms
Loss rate: 82.98%
-- Flow 2:
Average throughput: 18.07 Mbit/s
95th percentile per-packet one-way delay: 119.860 ms
Loss rate: 46.90%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 137.138 ms
Loss rate: 57.45%
```

Run 4: Report of Verus — Data Link

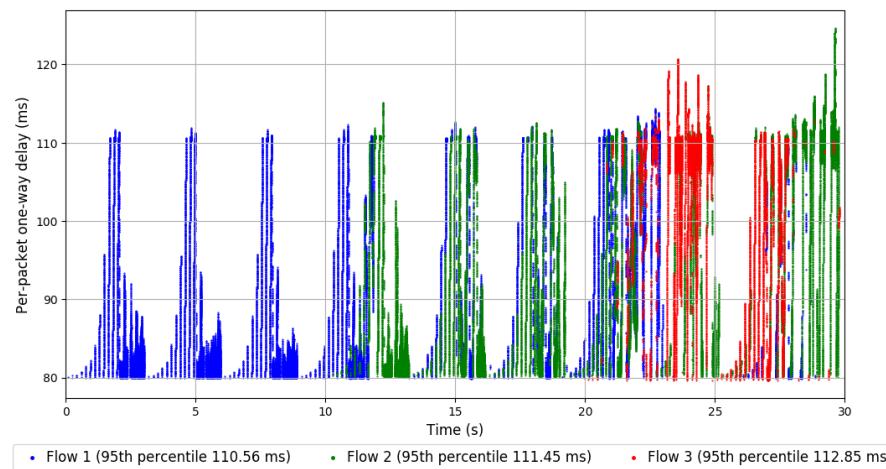
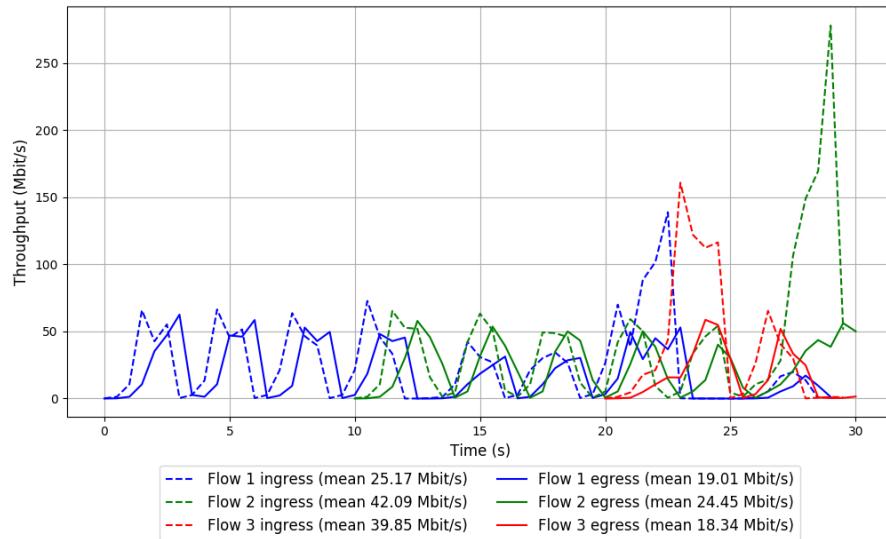


Run 5: Statistics of Verus

```
Start at: 2019-02-05 09:33:32
End at: 2019-02-05 09:34:02
Local clock offset: -10.688 ms
Remote clock offset: -0.663 ms

# Below is generated by plot.py at 2019-02-05 09:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.61 Mbit/s
95th percentile per-packet one-way delay: 111.074 ms
Loss rate: 37.85%
-- Flow 1:
Average throughput: 19.01 Mbit/s
95th percentile per-packet one-way delay: 110.561 ms
Loss rate: 24.92%
-- Flow 2:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 111.451 ms
Loss rate: 41.81%
-- Flow 3:
Average throughput: 18.34 Mbit/s
95th percentile per-packet one-way delay: 112.848 ms
Loss rate: 53.86%
```

Run 5: Report of Verus — Data Link

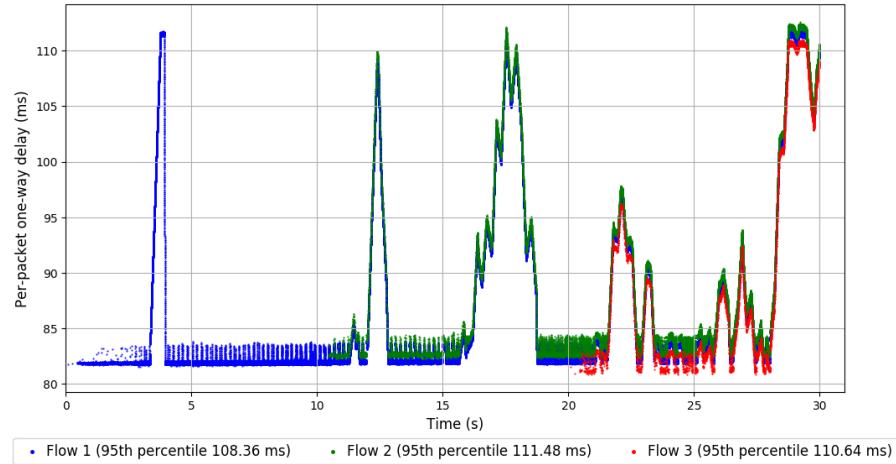
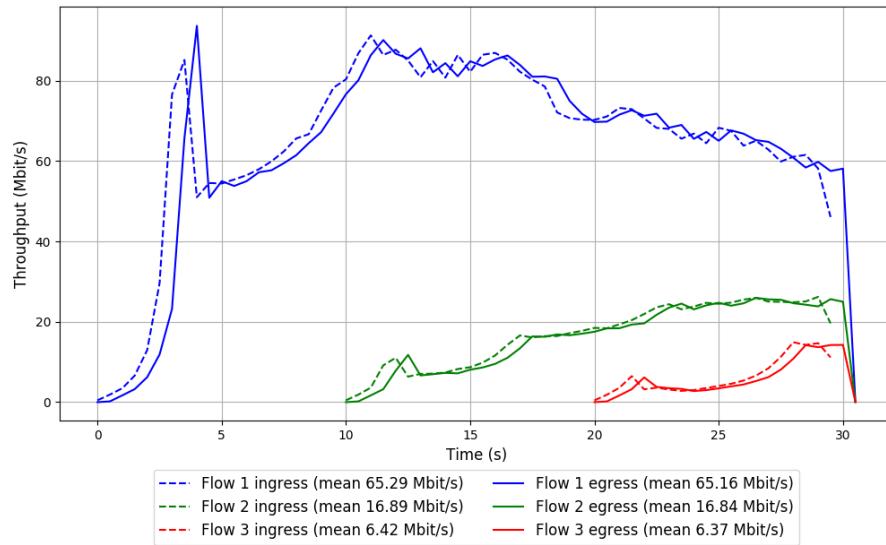


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2019-02-05 07:39:19
End at: 2019-02-05 07:39:49
Local clock offset: -7.17 ms
Remote clock offset: 4.85 ms

# Below is generated by plot.py at 2019-02-05 09:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.47 Mbit/s
95th percentile per-packet one-way delay: 109.157 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 65.16 Mbit/s
95th percentile per-packet one-way delay: 108.358 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 111.483 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 6.37 Mbit/s
95th percentile per-packet one-way delay: 110.636 ms
Loss rate: 0.61%
```

Run 1: Report of PCC-Vivace — Data Link

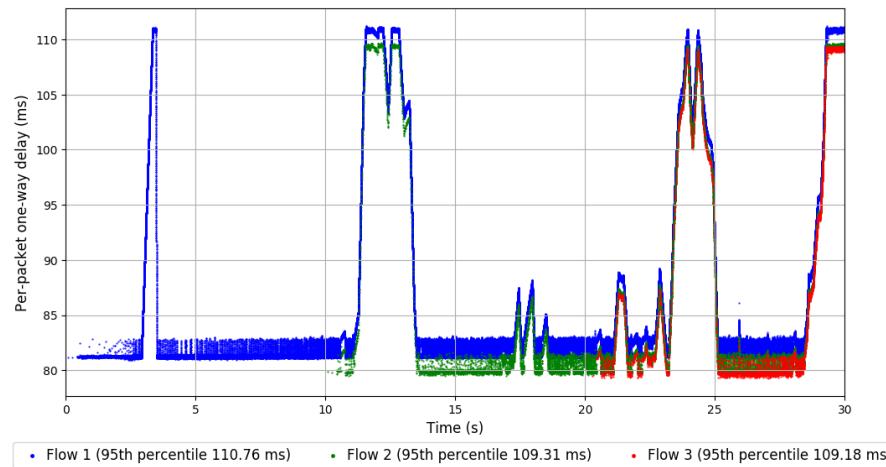
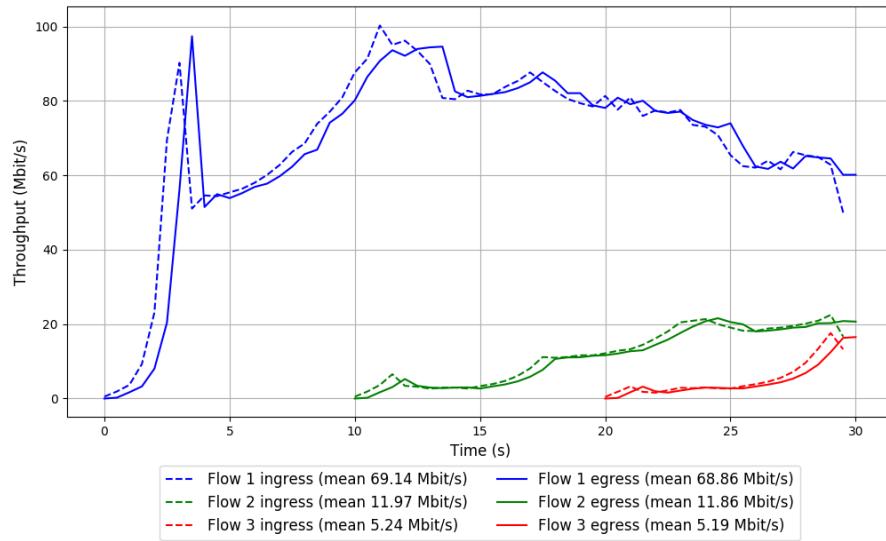


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-02-05 08:06:04
End at: 2019-02-05 08:06:34
Local clock offset: -2.611 ms
Remote clock offset: 0.7 ms

# Below is generated by plot.py at 2019-02-05 09:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.47 Mbit/s
95th percentile per-packet one-way delay: 110.709 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 68.86 Mbit/s
95th percentile per-packet one-way delay: 110.756 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 11.86 Mbit/s
95th percentile per-packet one-way delay: 109.311 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 109.183 ms
Loss rate: 0.77%
```

Run 2: Report of PCC-Vivace — Data Link

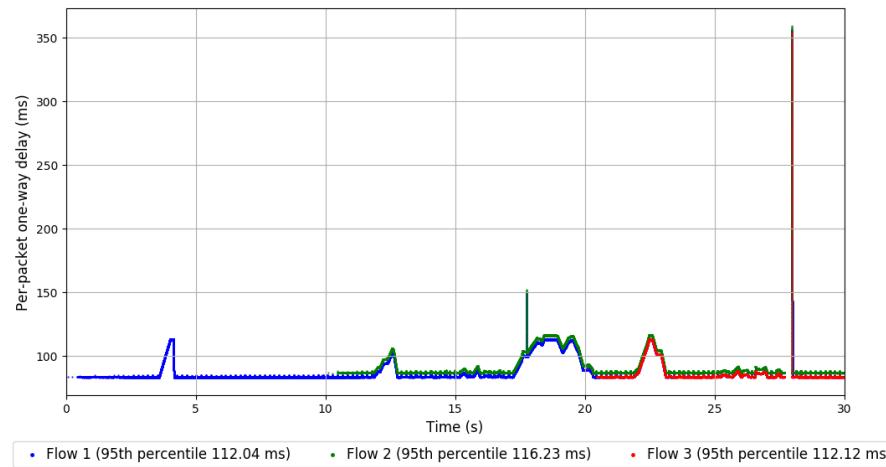
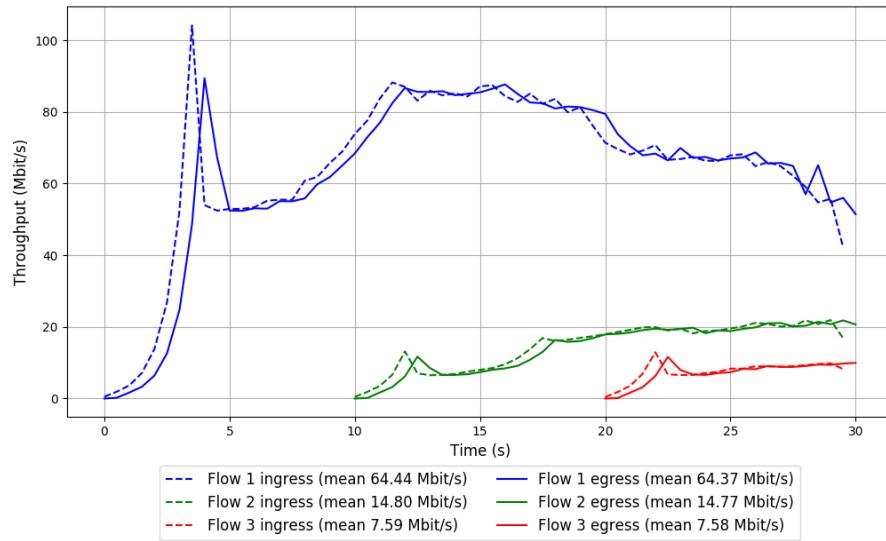


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-02-05 08:32:41
End at: 2019-02-05 08:33:11
Local clock offset: -0.675 ms
Remote clock offset: 4.584 ms

# Below is generated by plot.py at 2019-02-05 09:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.69 Mbit/s
95th percentile per-packet one-way delay: 112.761 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 64.37 Mbit/s
95th percentile per-packet one-way delay: 112.038 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 14.77 Mbit/s
95th percentile per-packet one-way delay: 116.231 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 7.58 Mbit/s
95th percentile per-packet one-way delay: 112.118 ms
Loss rate: 0.17%
```

Run 3: Report of PCC-Vivace — Data Link

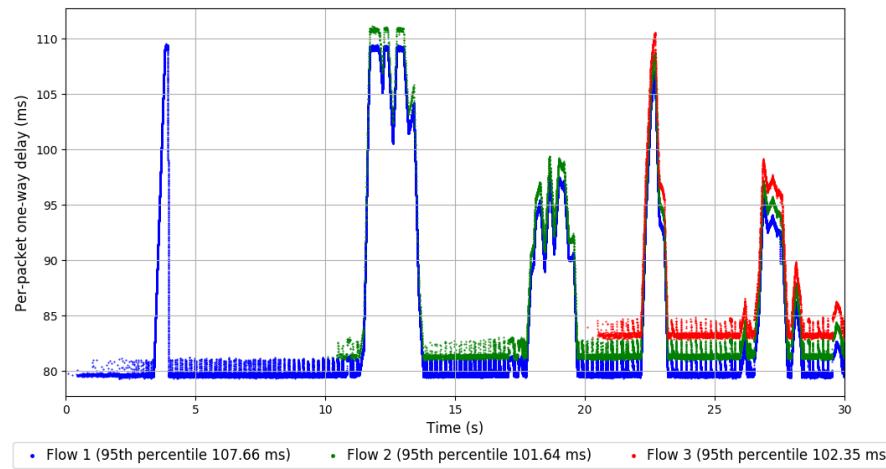
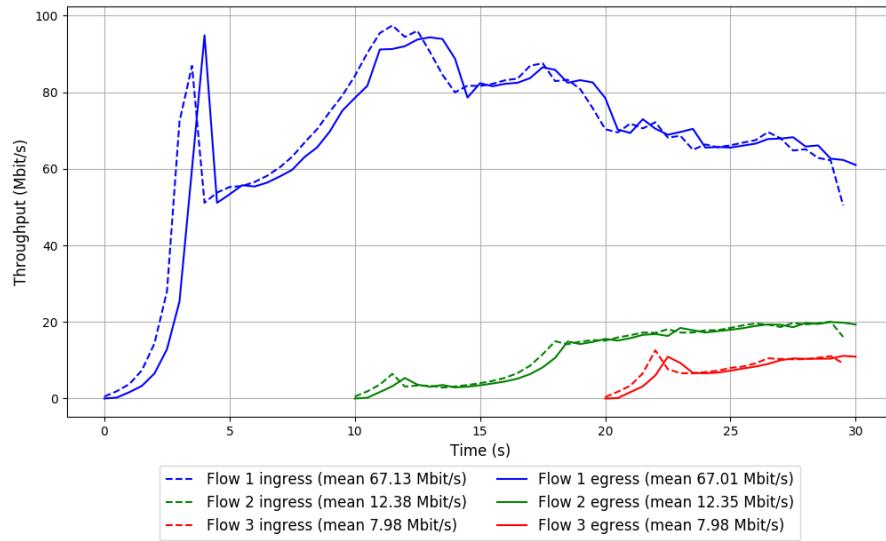


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-02-05 08:59:16
End at: 2019-02-05 08:59:47
Local clock offset: -6.143 ms
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-02-05 09:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.85 Mbit/s
95th percentile per-packet one-way delay: 107.077 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 67.01 Mbit/s
95th percentile per-packet one-way delay: 107.657 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 12.35 Mbit/s
95th percentile per-packet one-way delay: 101.636 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 102.348 ms
Loss rate: 0.04%
```

Run 4: Report of PCC-Vivace — Data Link

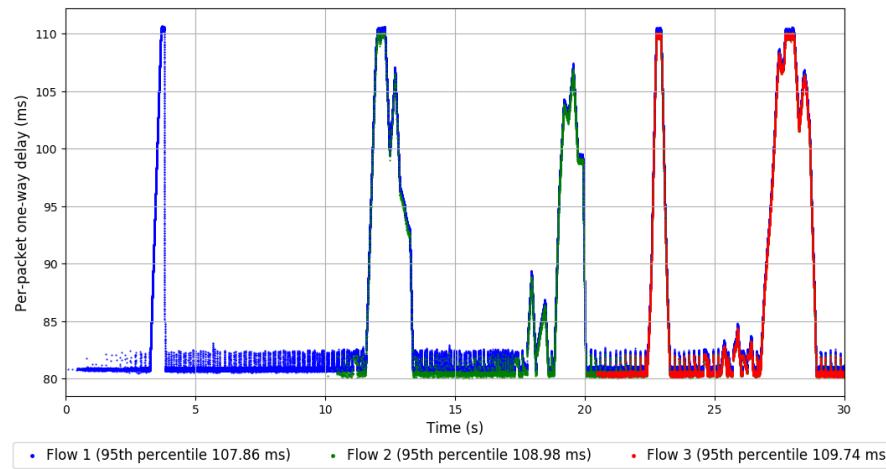
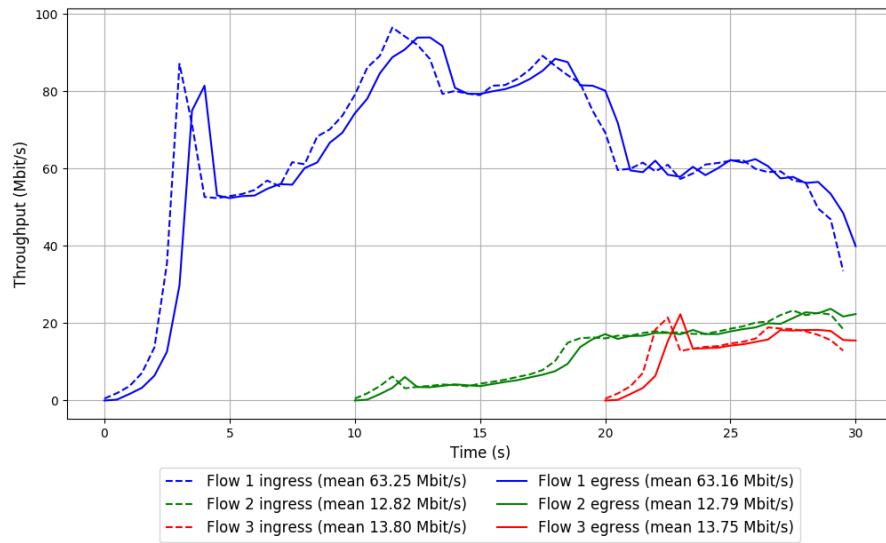


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-02-05 09:25:55
End at: 2019-02-05 09:26:25
Local clock offset: -10.018 ms
Remote clock offset: -0.563 ms

# Below is generated by plot.py at 2019-02-05 09:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 108.333 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 63.16 Mbit/s
95th percentile per-packet one-way delay: 107.861 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 12.79 Mbit/s
95th percentile per-packet one-way delay: 108.984 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 109.744 ms
Loss rate: 0.36%
```

Run 5: Report of PCC-Vivace — Data Link

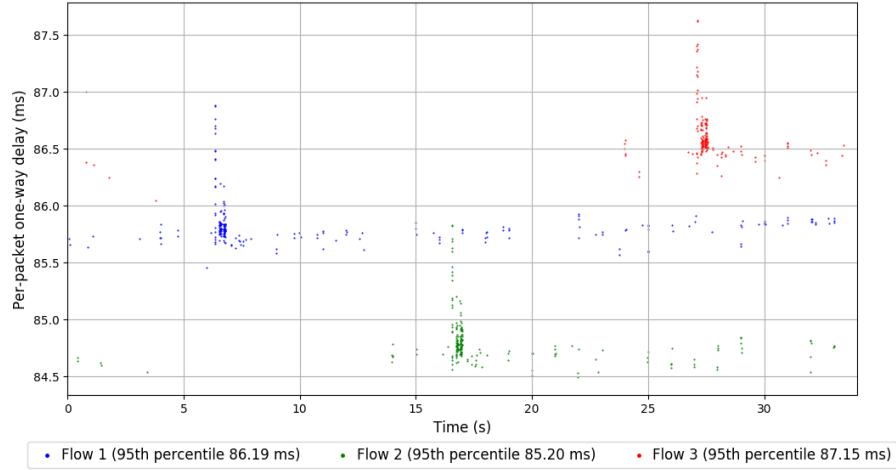
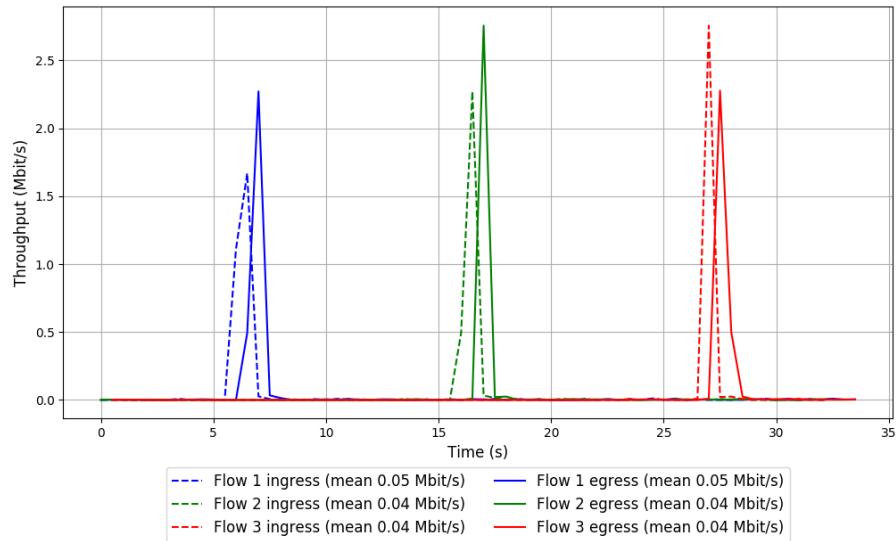


```
Run 1: Statistics of WebRTC media

Start at: 2019-02-05 07:36:50
End at: 2019-02-05 07:37:20
Local clock offset: -7.111 ms
Remote clock offset: 10.404 ms

# Below is generated by plot.py at 2019-02-05 09:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 86.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.191 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 85.198 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 87.150 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

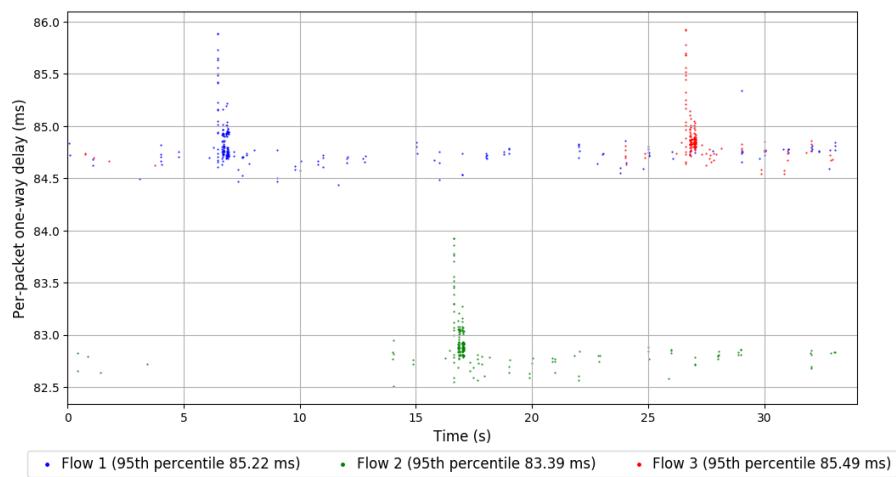
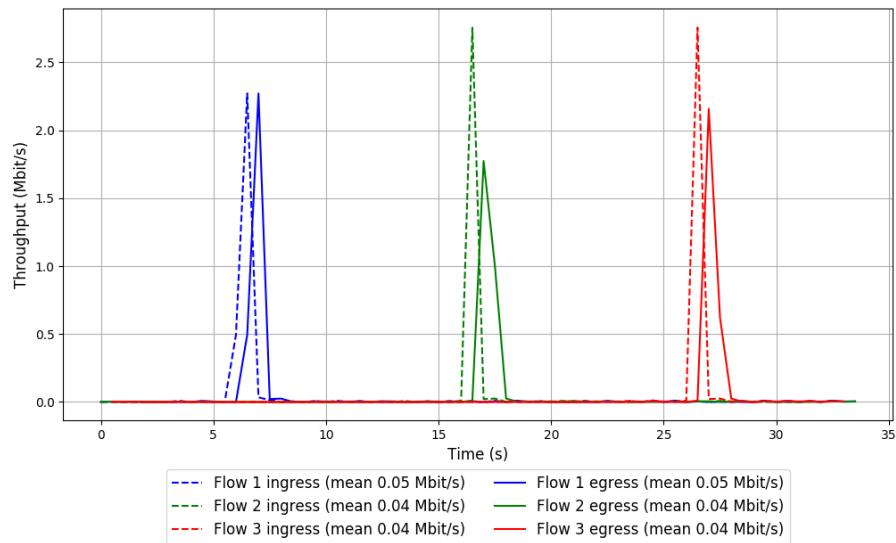


Run 2: Statistics of WebRTC media

```
Start at: 2019-02-05 08:03:34
End at: 2019-02-05 08:04:04
Local clock offset: -2.274 ms
Remote clock offset: 4.463 ms

# Below is generated by plot.py at 2019-02-05 09:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 85.153 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 85.215 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 83.386 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 85.488 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

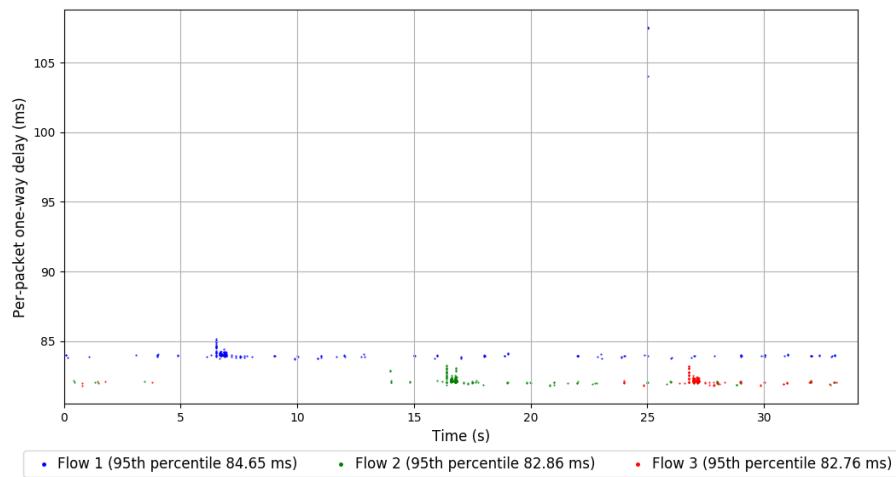
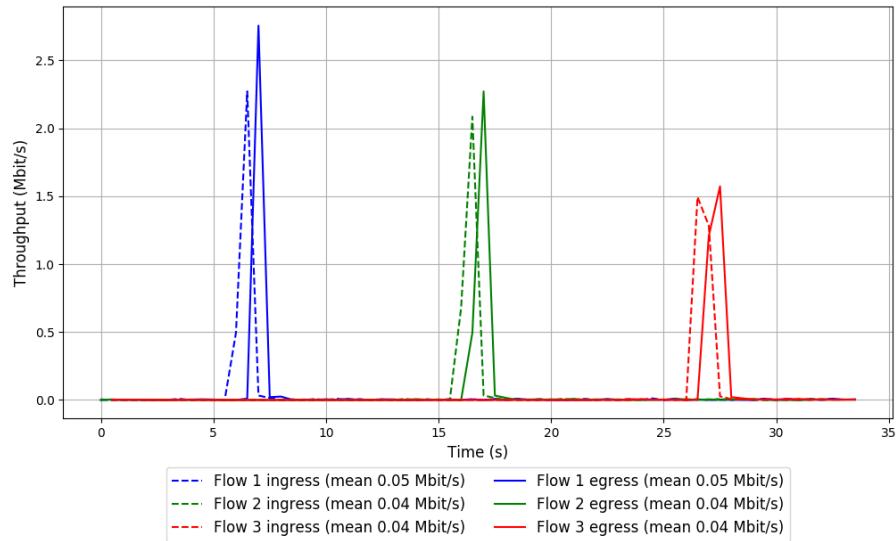


```
Run 3: Statistics of WebRTC media

Start at: 2019-02-05 08:30:12
End at: 2019-02-05 08:30:42
Local clock offset: -0.814 ms
Remote clock offset: 1.691 ms

# Below is generated by plot.py at 2019-02-05 09:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 84.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.649 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 82.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 82.757 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

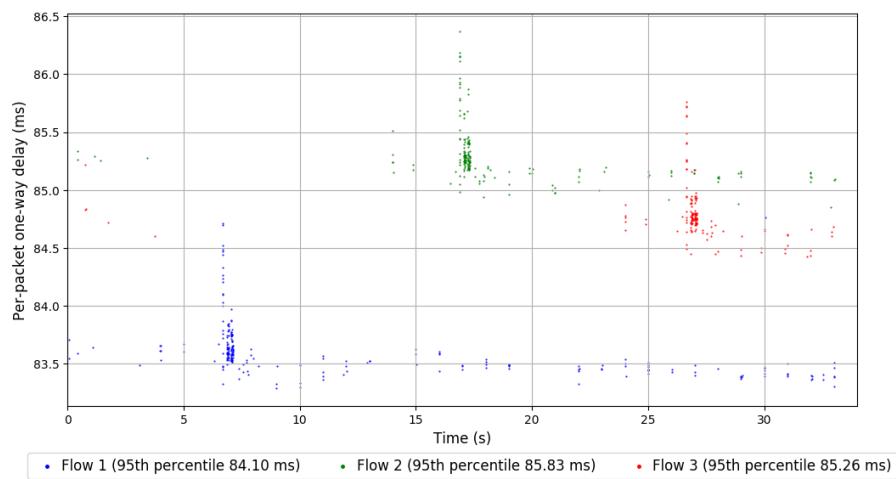
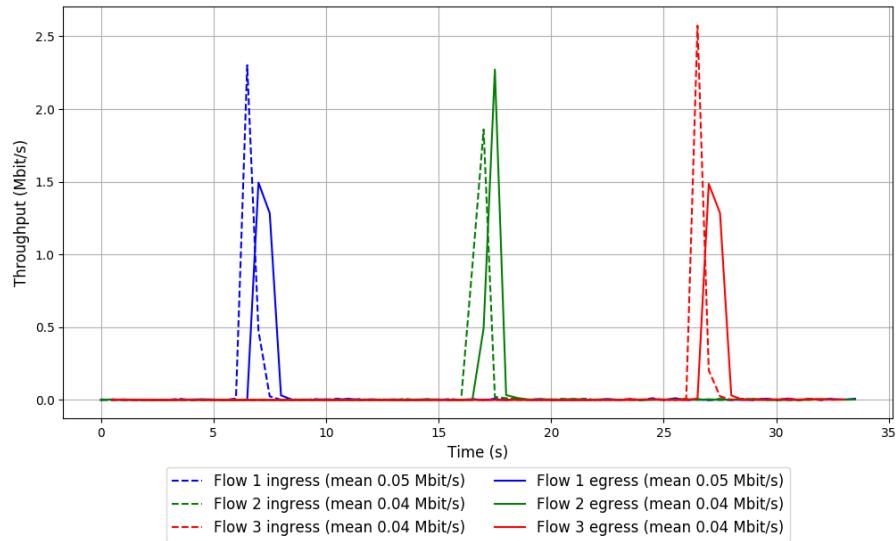


Run 4: Statistics of WebRTC media

```
Start at: 2019-02-05 08:56:47
End at: 2019-02-05 08:57:17
Local clock offset: -6.19 ms
Remote clock offset: 2.85 ms

# Below is generated by plot.py at 2019-02-05 09:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 85.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 84.096 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 85.828 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 85.264 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-02-05 09:23:26
End at: 2019-02-05 09:23:56
Local clock offset: -10.538 ms
Remote clock offset: -0.689 ms

# Below is generated by plot.py at 2019-02-05 09:45:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 83.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 83.232 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 81.510 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 81.629 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

