

## Pantheon Report

Generated at 2018-06-19 08:32:22 (UTC).

Data path: India ppp0 ppp0 (*remote*) → AWS India 1 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 3 times.

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

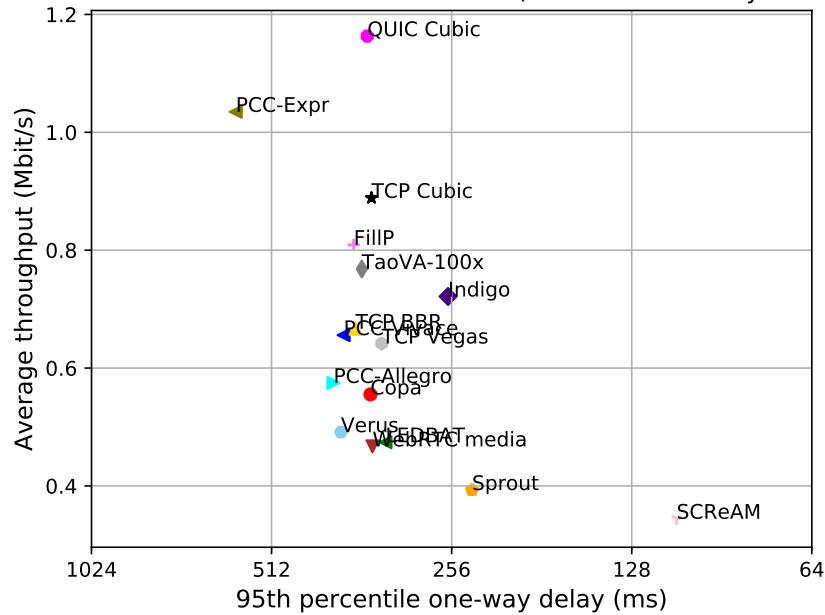
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against [nets.org.sg](http://nets.org.sg) and have been applied to correct the timestamps in logs.

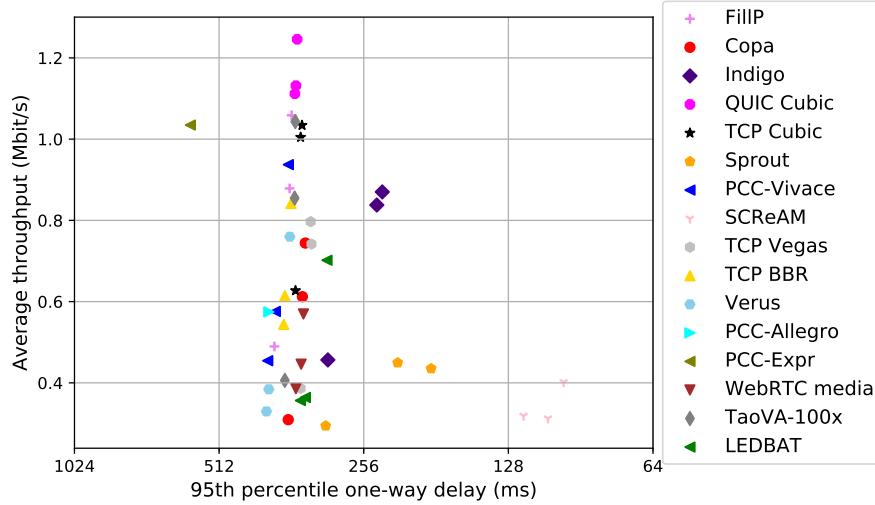
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from India ppp0 to AWS India 1, 3 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from India ppp0 to AWS India 1, 3 runs of 30s each per scheme  
 3 flows with 10s interval between flows



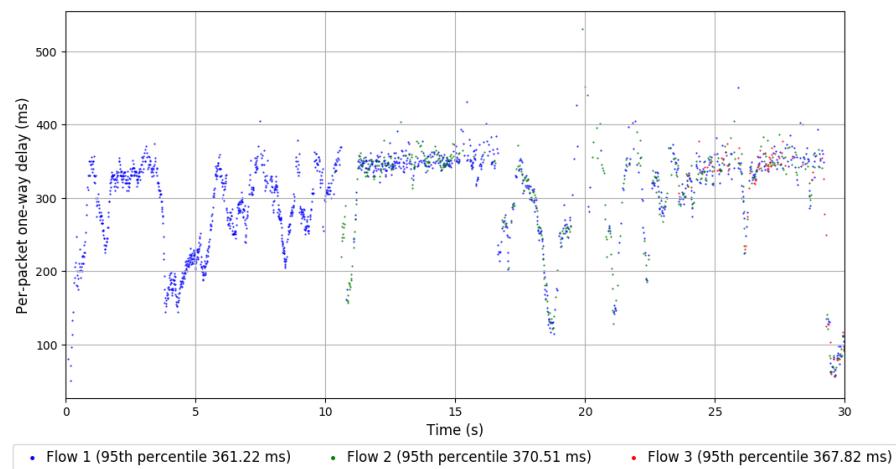
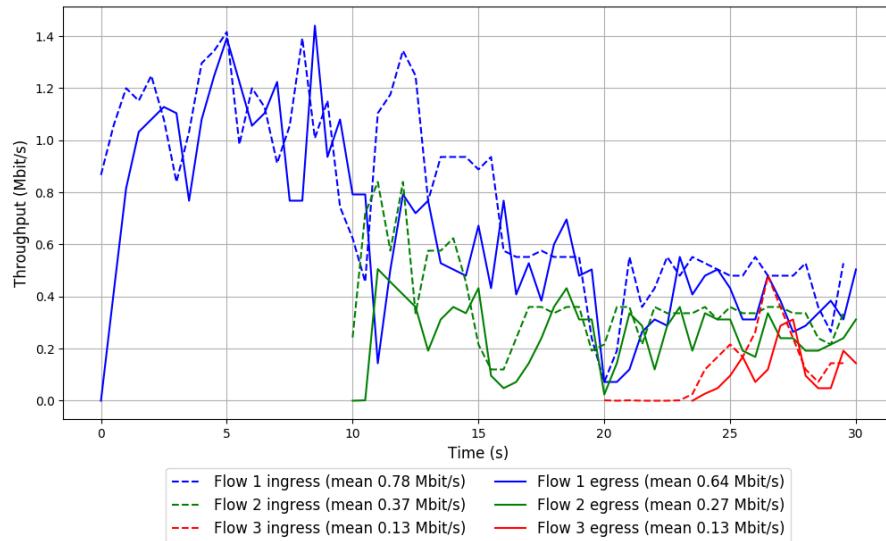
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	3	0.45	0.27	0.18	369.28	372.54	374.45	18.85	30.07	36.97
Copa		0.30	0.27	0.24	350.18	350.16	352.58	12.57	11.53	14.75
TCP Cubic		0.56	0.36	0.32	348.25	351.48	346.24	6.31	8.02	10.98
FillP		0.49	0.34	0.32	375.54	369.78	367.59	52.65	56.04	54.75
Indigo		0.37	0.34	0.40	248.09	260.08	283.58	3.66	5.51	5.62
LEDBAT		0.27	0.23	0.16	327.03	328.93	340.28	2.18	1.90	4.64
PCC-Allegro		0.57	0.00	0.00	403.39	343.04	355.48	81.75	92.31	71.45
PCC-Expr		0.58	0.71	0.00	461.99	681.00	341.20	91.23	94.85	92.31
QUIC Cubic		0.69	0.53	0.39	353.08	354.82	355.53	13.87	15.69	26.03
SCReAM		0.15	0.19	0.21	107.12	110.06	109.96	0.21	0.30	0.64
Sprout		0.20	0.20	0.19	216.35	243.14	268.55	2.23	2.09	6.60
TaoVA-100x		0.49	0.23	0.50	360.92	368.69	364.13	46.03	67.91	50.88
TCP Vegas		0.36	0.31	0.24	320.07	334.97	348.36	3.28	5.66	9.94
Verus		0.36	0.17	0.07	394.03	396.21	384.39	41.68	77.27	57.46
PCC-Vivace		0.43	0.28	0.16	385.08	393.84	370.27	68.48	78.83	84.24
WebRTC media		0.20	0.16	0.11	346.17	350.41	344.84	10.52	14.25	15.31

Run 1: Statistics of TCP BBR

```
Start at: 2018-06-19 07:56:06
End at: 2018-06-19 07:56:36
Local clock offset: 3.318 ms
Remote clock offset: -5.521 ms

# Below is generated by plot.py at 2018-06-19 08:31:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 362.655 ms
Loss rate: 21.20%
-- Flow 1:
Average throughput: 0.64 Mbit/s
95th percentile per-packet one-way delay: 361.218 ms
Loss rate: 17.72%
-- Flow 2:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 370.512 ms
Loss rate: 29.88%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 367.824 ms
Loss rate: 34.33%
```

## Run 1: Report of TCP BBR — Data Link

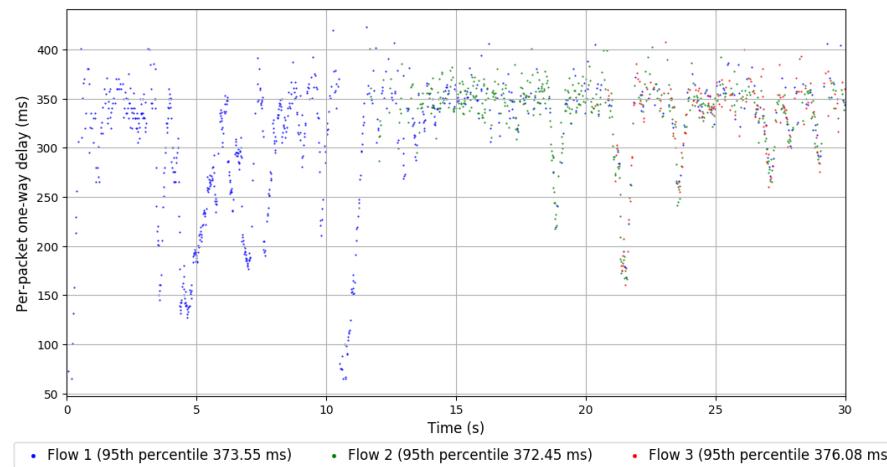
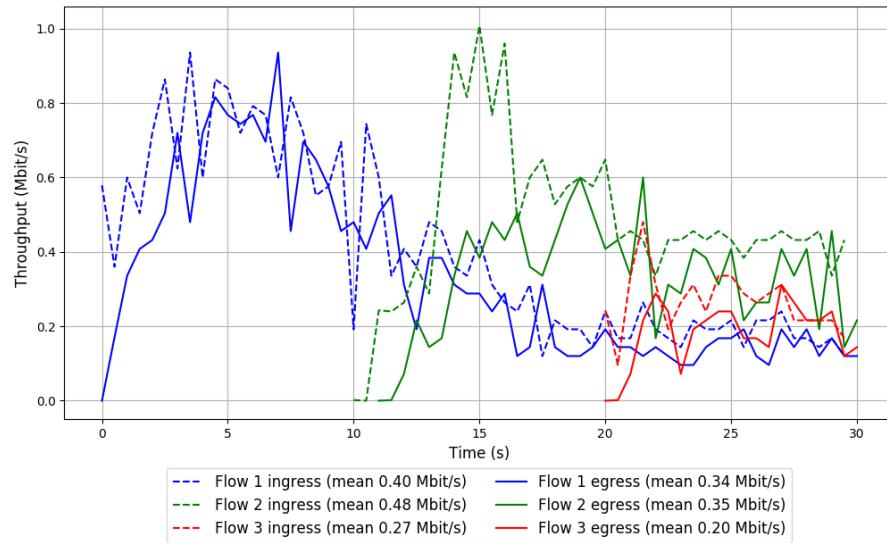


Run 2: Statistics of TCP BBR

```
Start at: 2018-06-19 08:13:42
End at: 2018-06-19 08:14:12
Local clock offset: 3.361 ms
Remote clock offset: -2.196 ms

# Below is generated by plot.py at 2018-06-19 08:31:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 373.553 ms
Loss rate: 24.62%
-- Flow 1:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 373.553 ms
Loss rate: 16.98%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 372.453 ms
Loss rate: 32.93%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 376.082 ms
Loss rate: 29.29%
```

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

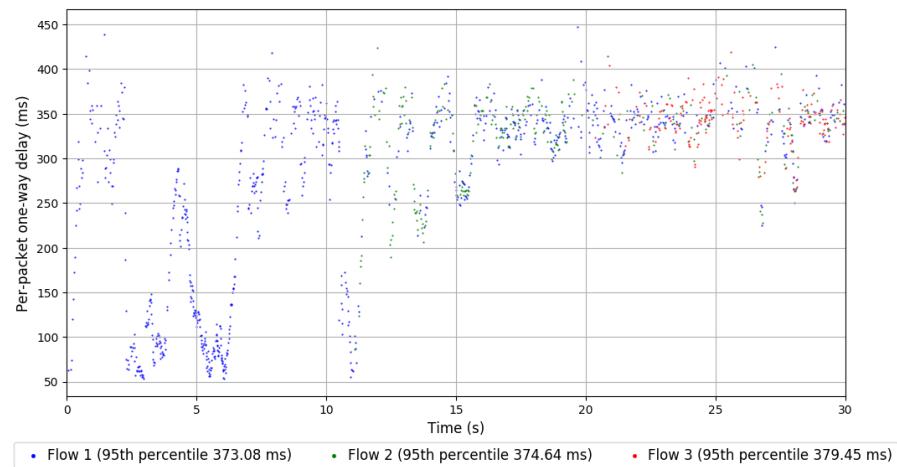
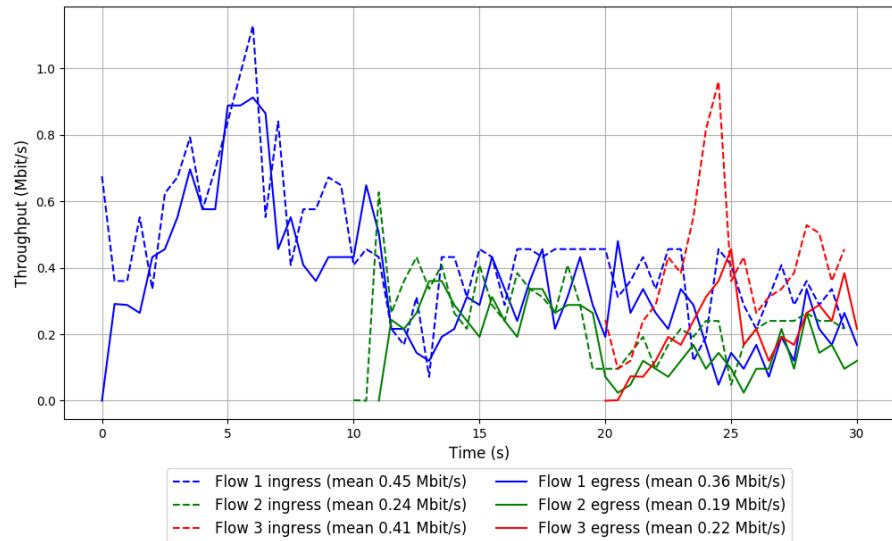


Run 3: Statistics of TCP BBR

```
Start at: 2018-06-19 08:31:11
End at: 2018-06-19 08:31:41
Local clock offset: -5.718 ms
Remote clock offset: -2.612 ms

# Below is generated by plot.py at 2018-06-19 08:31:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 375.645 ms
Loss rate: 27.61%
-- Flow 1:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 373.080 ms
Loss rate: 21.84%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 374.645 ms
Loss rate: 27.41%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 379.455 ms
Loss rate: 47.30%
```

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

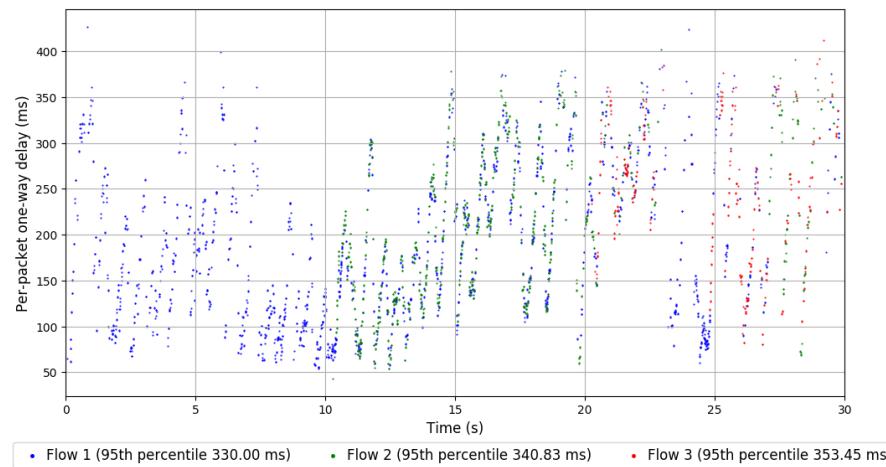
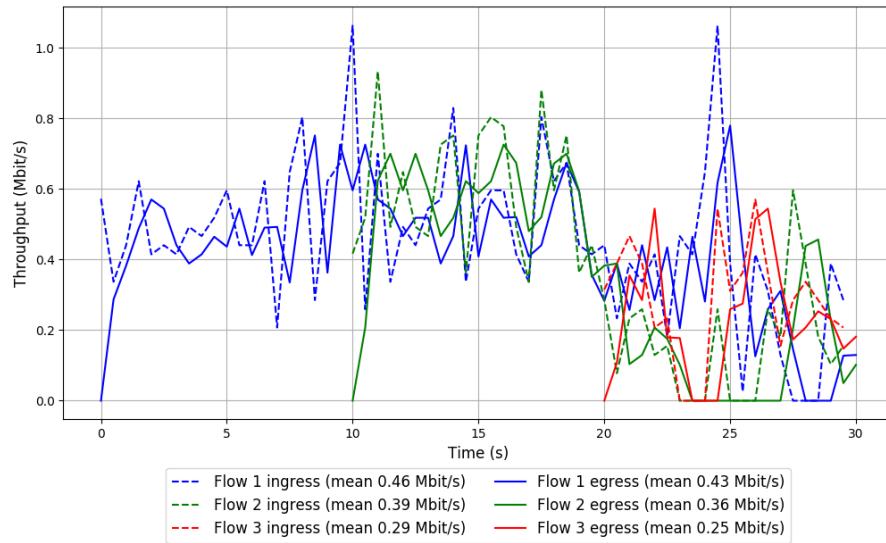


Run 1: Statistics of Copa

```
Start at: 2018-06-19 07:49:33
End at: 2018-06-19 07:50:03
Local clock offset: 3.175 ms
Remote clock offset: -4.264 ms

# Below is generated by plot.py at 2018-06-19 08:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 338.691 ms
Loss rate: 8.56%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 329.998 ms
Loss rate: 6.99%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 340.834 ms
Loss rate: 8.79%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 353.448 ms
Loss rate: 15.58%
```

## Run 1: Report of Copa — Data Link

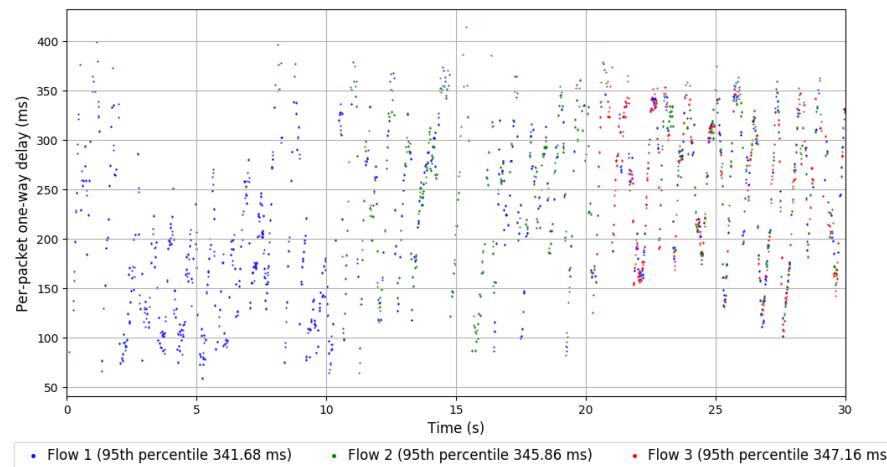
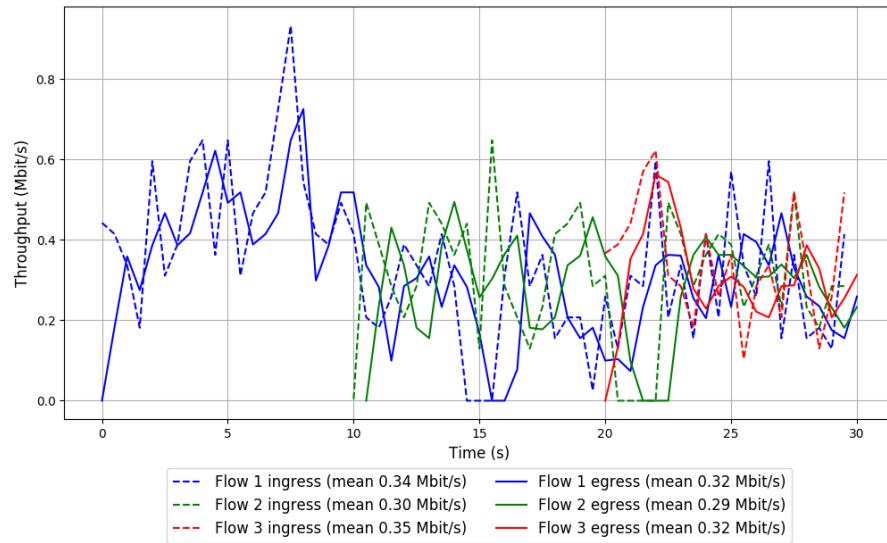


Run 2: Statistics of Copa

```
Start at: 2018-06-19 08:07:02
End at: 2018-06-19 08:07:32
Local clock offset: 2.245 ms
Remote clock offset: -1.939 ms

# Below is generated by plot.py at 2018-06-19 08:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 343.521 ms
Loss rate: 7.49%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 341.679 ms
Loss rate: 6.96%
-- Flow 2:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 345.856 ms
Loss rate: 7.85%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 347.156 ms
Loss rate: 8.43%
```

## Run 2: Report of Copa — Data Link

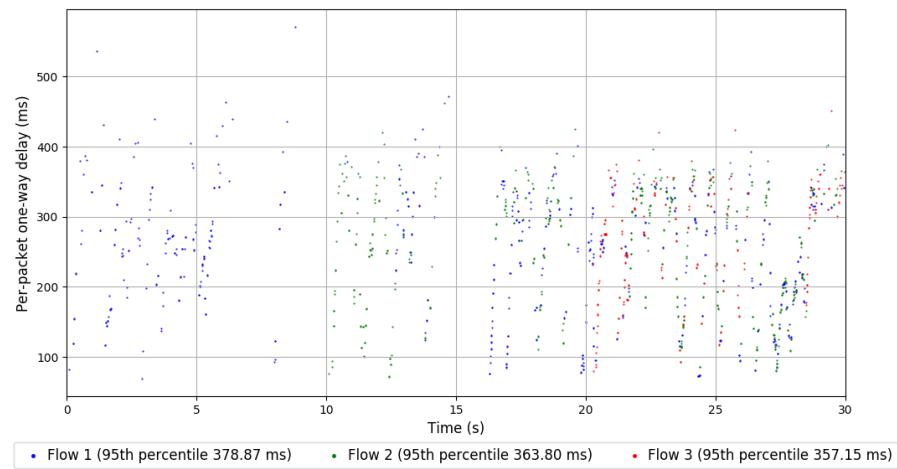
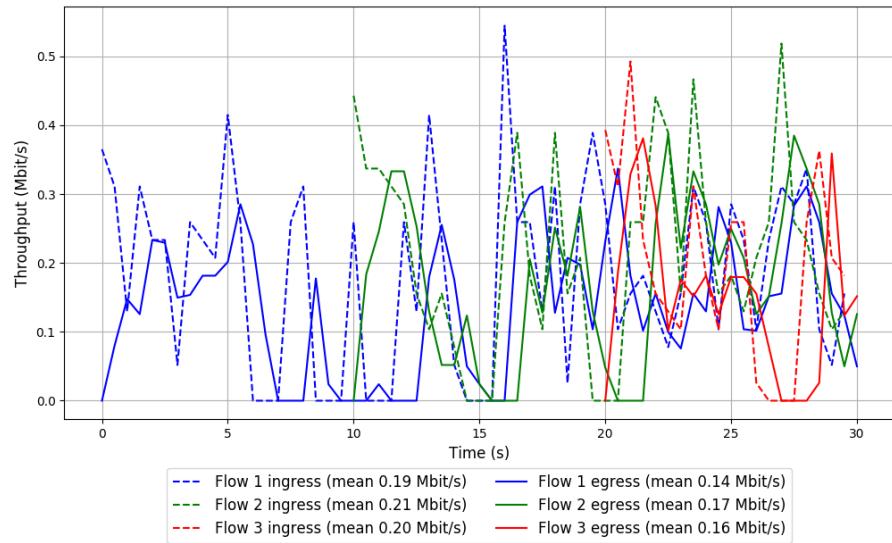


Run 3: Statistics of Copa

```
Start at: 2018-06-19 08:24:38
End at: 2018-06-19 08:25:08
Local clock offset: 1.179 ms
Remote clock offset: -1.088 ms

# Below is generated by plot.py at 2018-06-19 08:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 367.588 ms
Loss rate: 21.07%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 378.868 ms
Loss rate: 23.77%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 363.796 ms
Loss rate: 17.95%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 357.148 ms
Loss rate: 20.23%
```

### Run 3: Report of Copa — Data Link

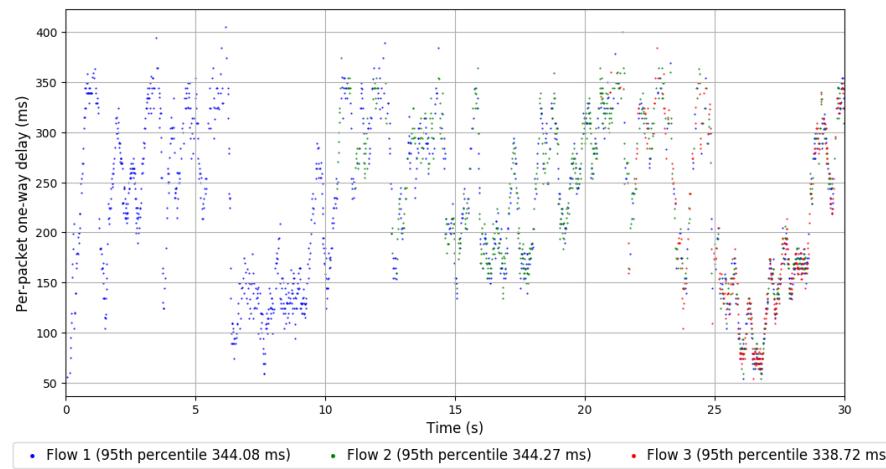
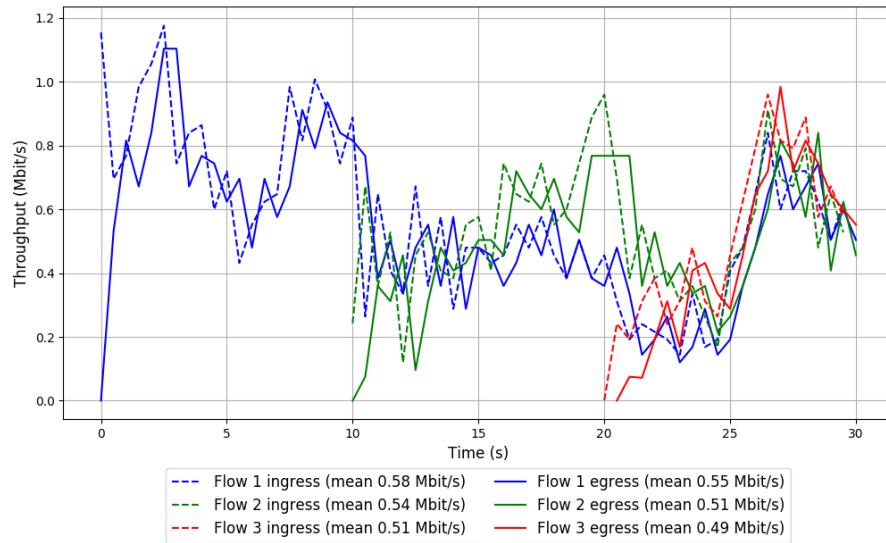


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-06-19 07:39:33
End at: 2018-06-19 07:40:03
Local clock offset: 4.079 ms
Remote clock offset: -3.237 ms

# Below is generated by plot.py at 2018-06-19 08:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 344.081 ms
Loss rate: 6.19%
-- Flow 1:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 344.076 ms
Loss rate: 5.35%
-- Flow 2:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 344.267 ms
Loss rate: 7.03%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 338.722 ms
Loss rate: 7.28%
```

## Run 1: Report of TCP Cubic — Data Link

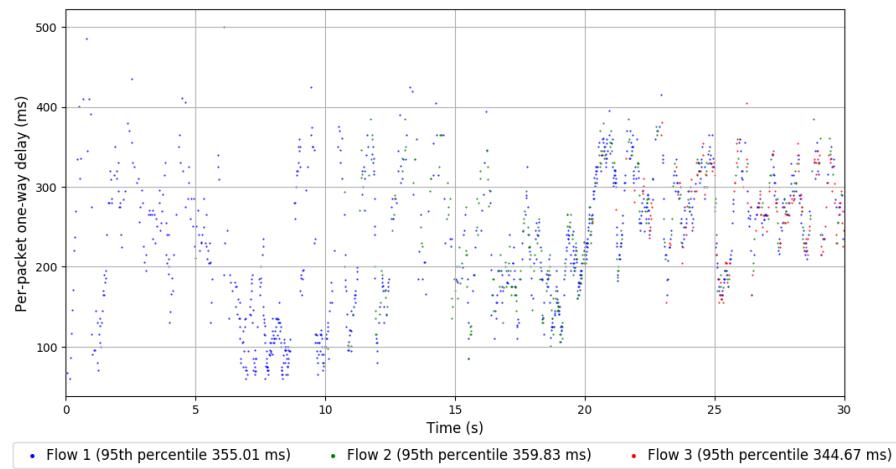
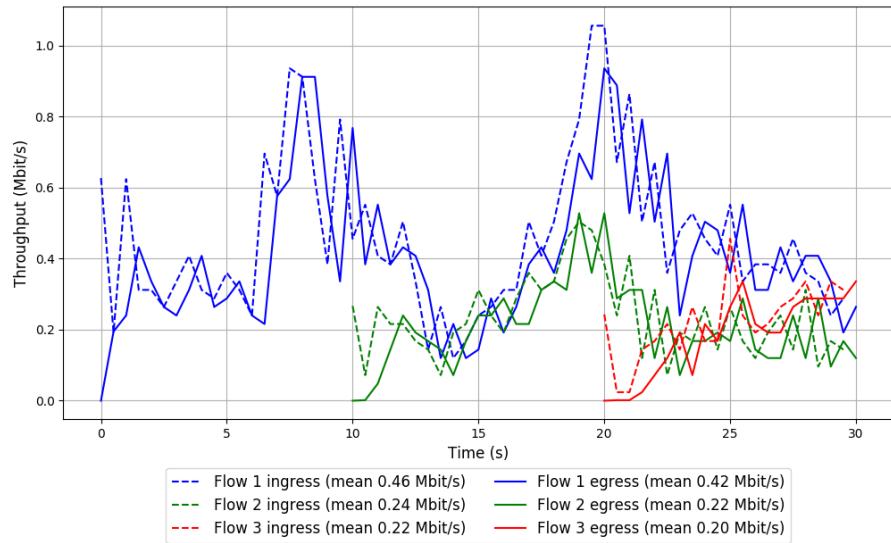


Run 2: Statistics of TCP Cubic

```
Start at: 2018-06-19 07:57:11
End at: 2018-06-19 07:57:41
Local clock offset: 3.326 ms
Remote clock offset: -5.688 ms

# Below is generated by plot.py at 2018-06-19 08:31:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 355.012 ms
Loss rate: 9.66%
-- Flow 1:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 355.012 ms
Loss rate: 8.87%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 359.828 ms
Loss rate: 9.91%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 344.666 ms
Loss rate: 14.04%
```

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

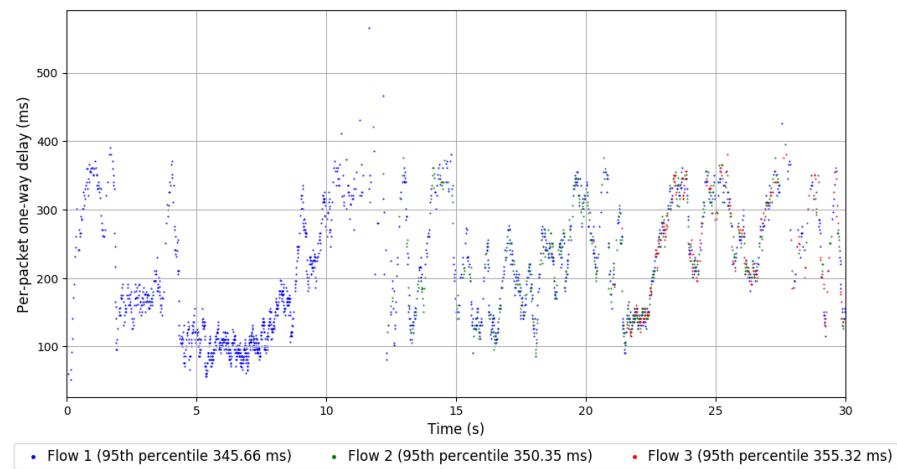
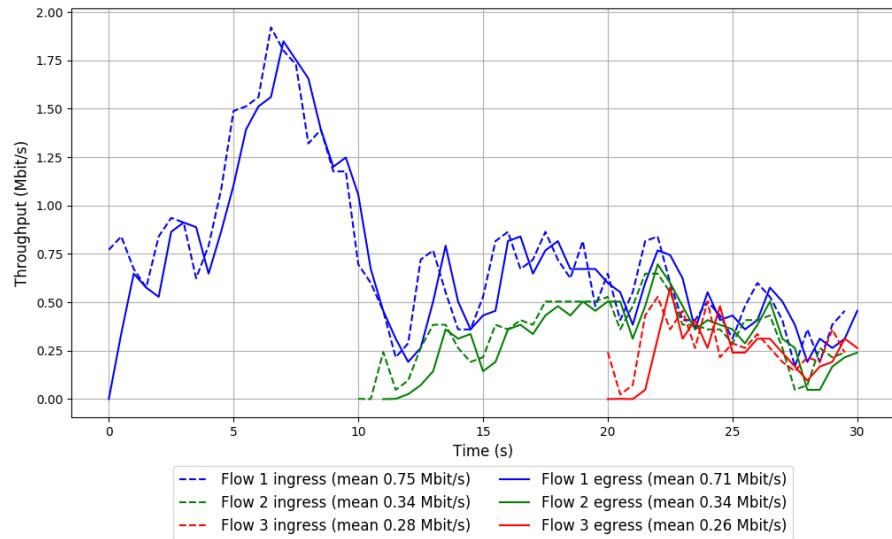


Run 3: Statistics of TCP Cubic

```
Start at: 2018-06-19 08:14:48
End at: 2018-06-19 08:15:18
Local clock offset: 3.478 ms
Remote clock offset: -2.689 ms

# Below is generated by plot.py at 2018-06-19 08:31:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 346.422 ms
Loss rate: 5.83%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 345.657 ms
Loss rate: 4.72%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 350.351 ms
Loss rate: 7.13%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 355.323 ms
Loss rate: 11.61%
```

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

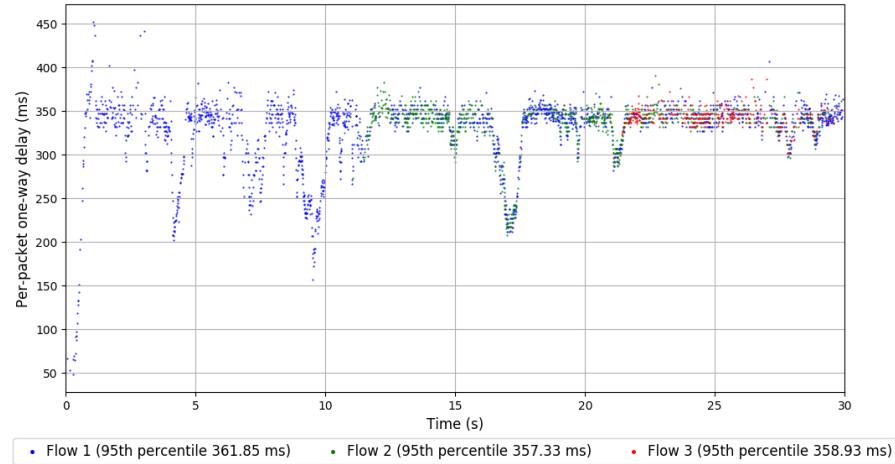
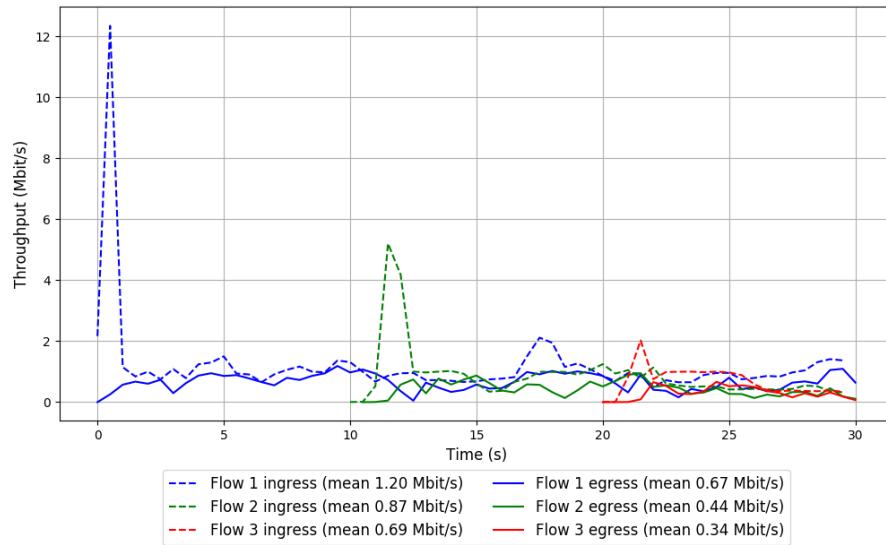


```
Run 1: Statistics of FillP

Start at: 2018-06-19 07:41:48
End at: 2018-06-19 07:42:18
Local clock offset: 2.784 ms
Remote clock offset: -3.485 ms

# Below is generated by plot.py at 2018-06-19 08:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 361.642 ms
Loss rate: 47.47%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 361.854 ms
Loss rate: 44.56%
-- Flow 2:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 357.334 ms
Loss rate: 51.02%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 358.928 ms
Loss rate: 53.81%
```

## Run 1: Report of FillP — Data Link

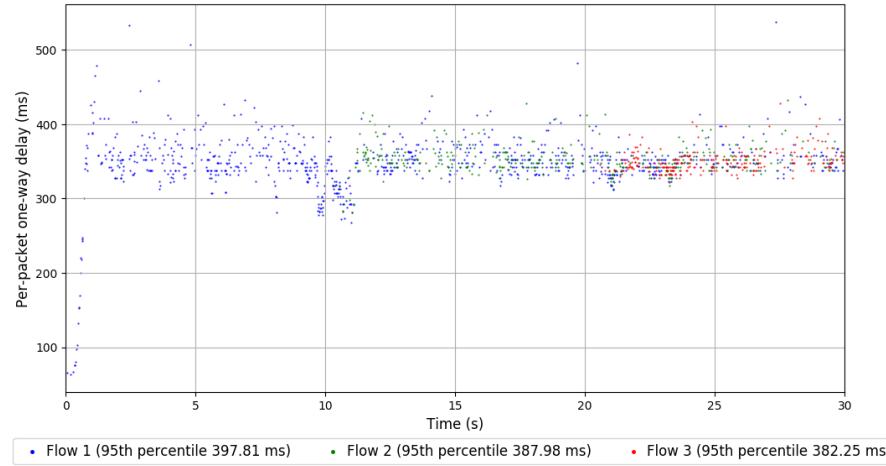
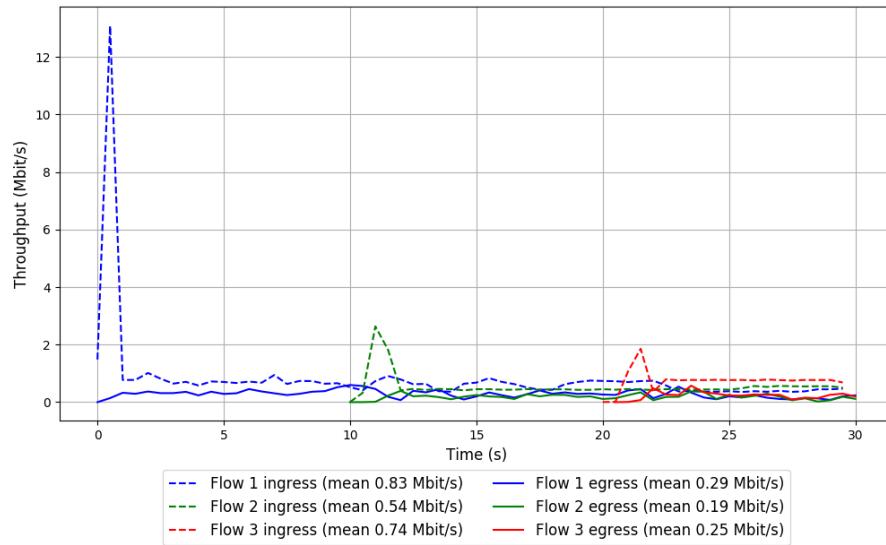


Run 2: Statistics of FillP

```
Start at: 2018-06-19 07:59:22
End at: 2018-06-19 07:59:52
Local clock offset: 1.223 ms
Remote clock offset: -6.474 ms

# Below is generated by plot.py at 2018-06-19 08:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 392.746 ms
Loss rate: 65.96%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 397.812 ms
Loss rate: 65.48%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 387.975 ms
Loss rate: 65.32%
-- Flow 3:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 382.253 ms
Loss rate: 68.48%
```

## Run 2: Report of FillP — Data Link

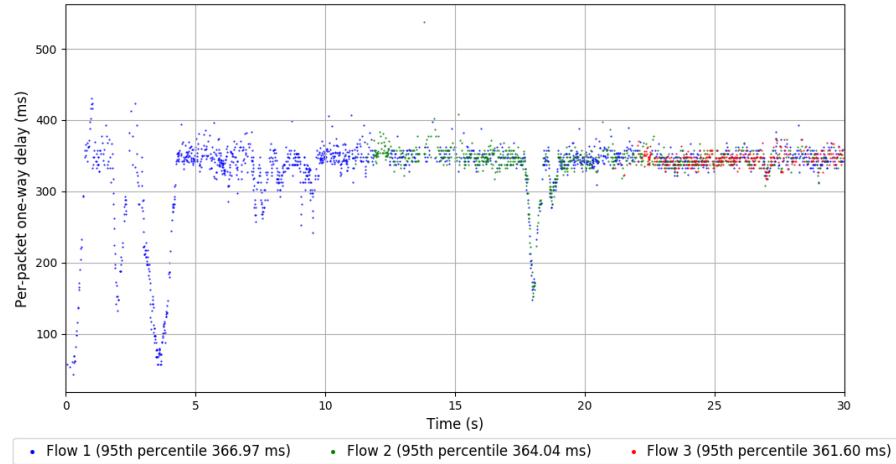
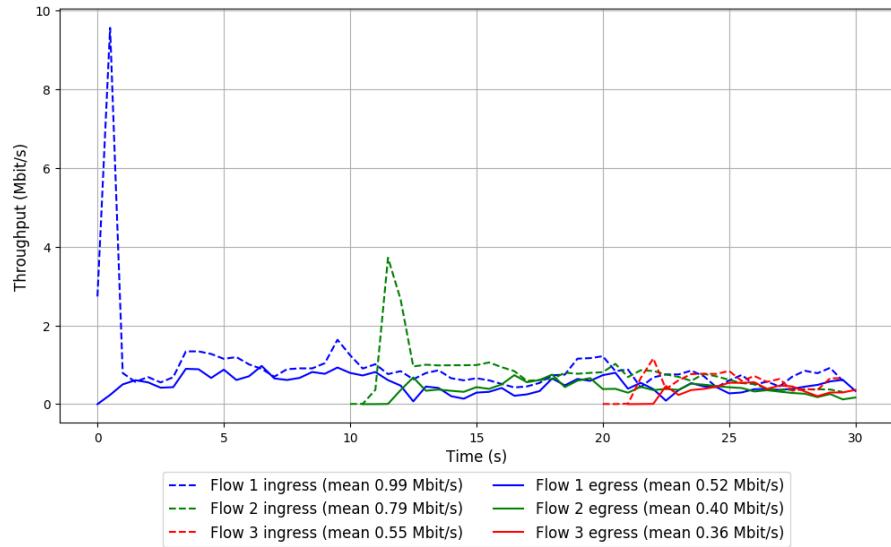


Run 3: Statistics of FillP

```
Start at: 2018-06-19 08:16:59
End at: 2018-06-19 08:17:29
Local clock offset: 2.683 ms
Remote clock offset: -0.697 ms

# Below is generated by plot.py at 2018-06-19 08:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 365.219 ms
Loss rate: 48.49%
-- Flow 1:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 366.966 ms
Loss rate: 47.92%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 364.038 ms
Loss rate: 51.79%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 361.599 ms
Loss rate: 41.96%
```

### Run 3: Report of FillP — Data Link

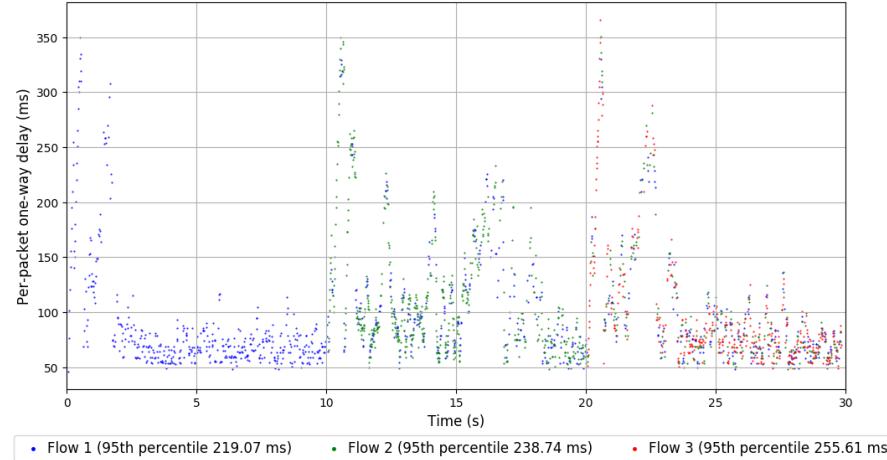
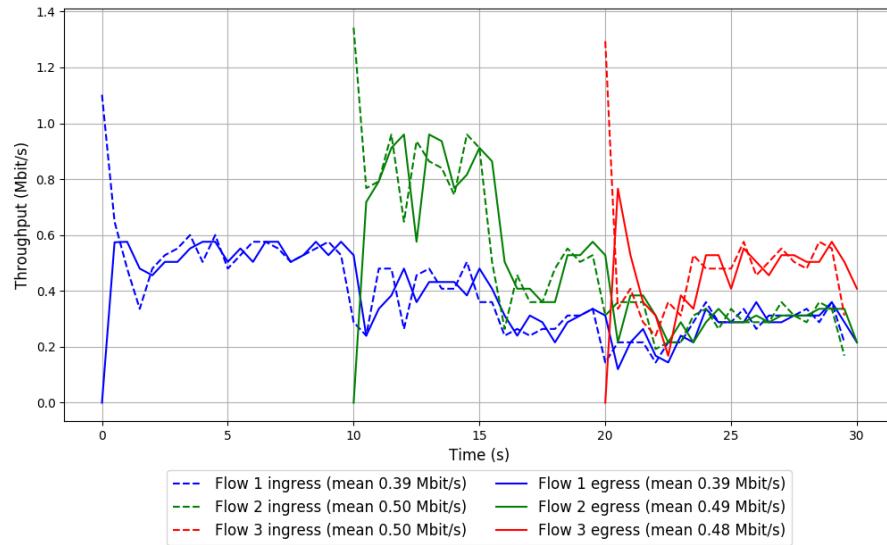


Run 1: Statistics of Indigo

```
Start at: 2018-06-19 07:40:38
End at: 2018-06-19 07:41:08
Local clock offset: 1.429 ms
Remote clock offset: -3.105 ms

# Below is generated by plot.py at 2018-06-19 08:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 234.214 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 219.066 ms
Loss rate: 2.04%
-- Flow 2:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 238.743 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 255.610 ms
Loss rate: 3.46%
```

## Run 1: Report of Indigo — Data Link

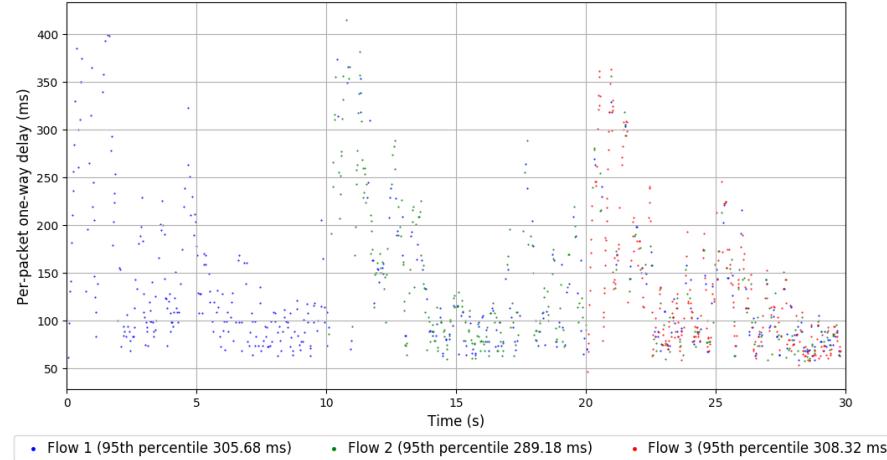
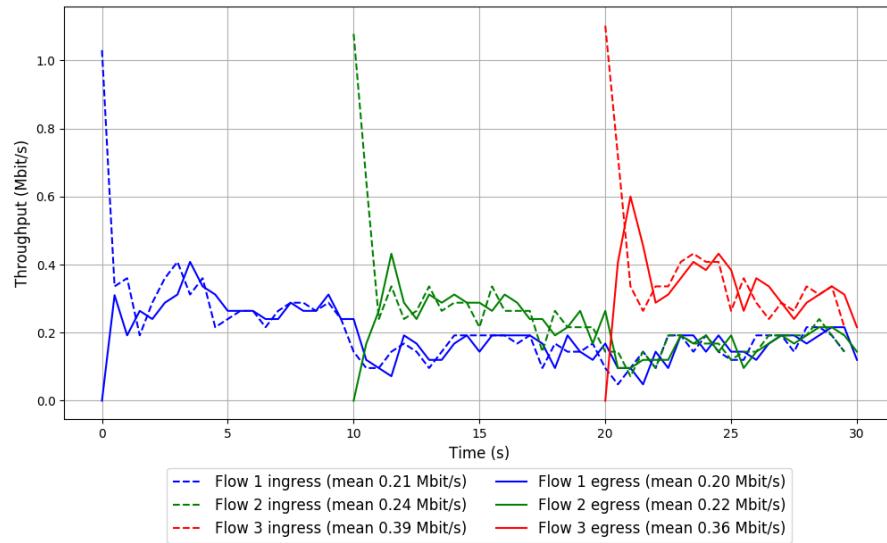


Run 2: Statistics of Indigo

```
Start at: 2018-06-19 07:58:17
End at: 2018-06-19 07:58:47
Local clock offset: 3.63 ms
Remote clock offset: -6.888 ms

# Below is generated by plot.py at 2018-06-19 08:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 304.015 ms
Loss rate: 9.23%
-- Flow 1:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 305.677 ms
Loss rate: 7.61%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 289.179 ms
Loss rate: 11.71%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 308.317 ms
Loss rate: 8.78%
```

## Run 2: Report of Indigo — Data Link

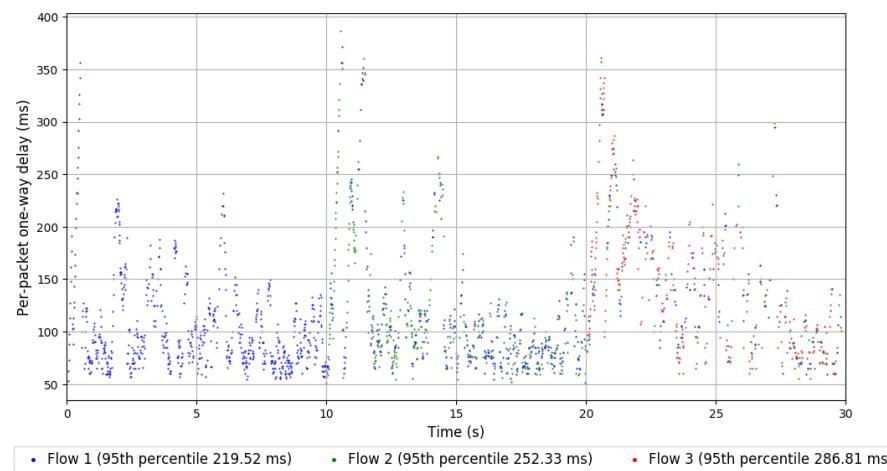
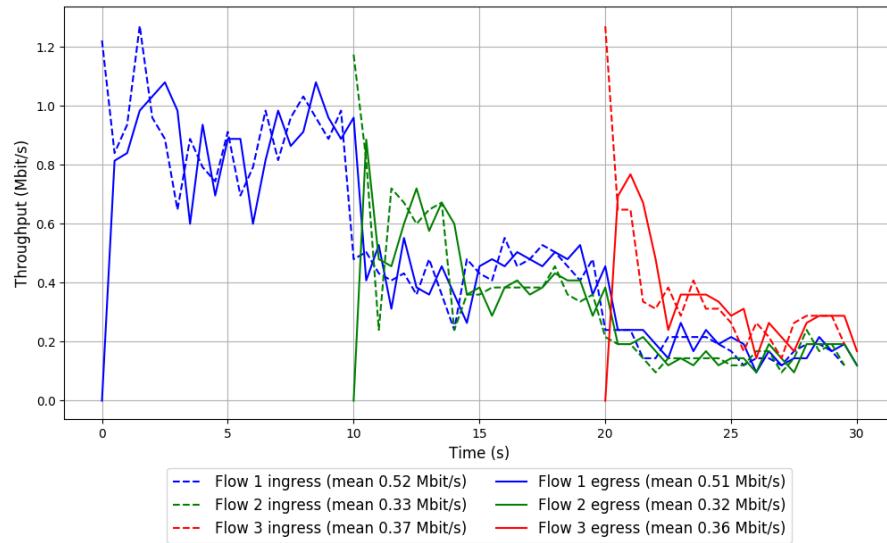


Run 3: Statistics of Indigo

```
Start at: 2018-06-19 08:15:53
End at: 2018-06-19 08:16:24
Local clock offset: 2.446 ms
Remote clock offset: -0.392 ms

# Below is generated by plot.py at 2018-06-19 08:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 240.461 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 219.524 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 252.331 ms
Loss rate: 3.13%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 286.810 ms
Loss rate: 4.61%
```

### Run 3: Report of Indigo — Data Link

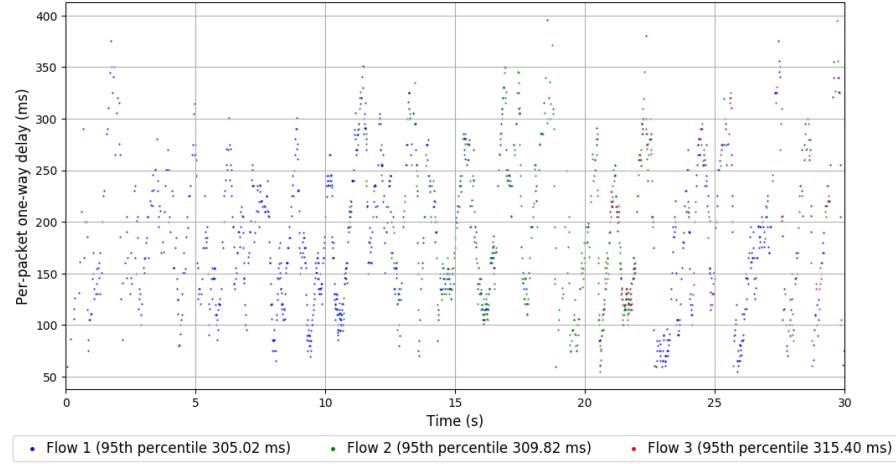
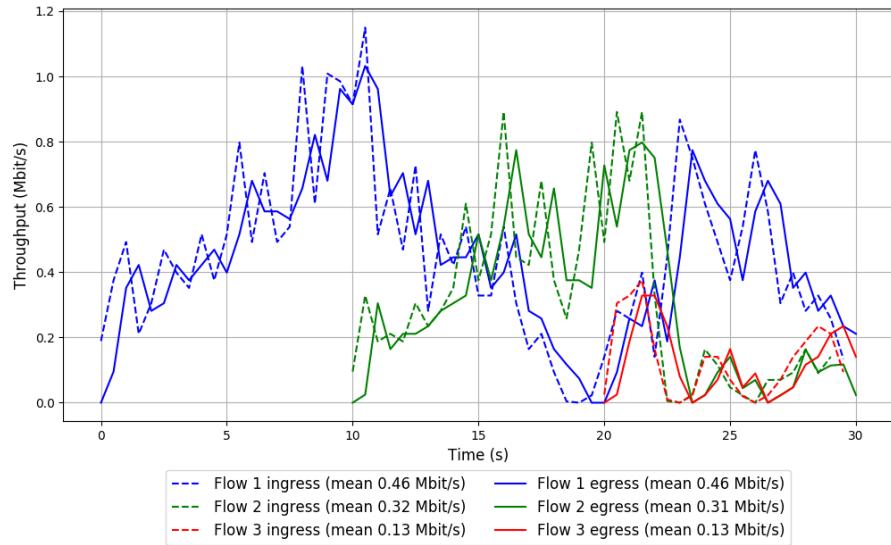


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-19 07:50:38
End at: 2018-06-19 07:51:08
Local clock offset: 2.577 ms
Remote clock offset: -4.467 ms

# Below is generated by plot.py at 2018-06-19 08:31:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 305.321 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 305.018 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 309.824 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 315.398 ms
Loss rate: 2.75%
```

## Run 1: Report of LEDBAT — Data Link

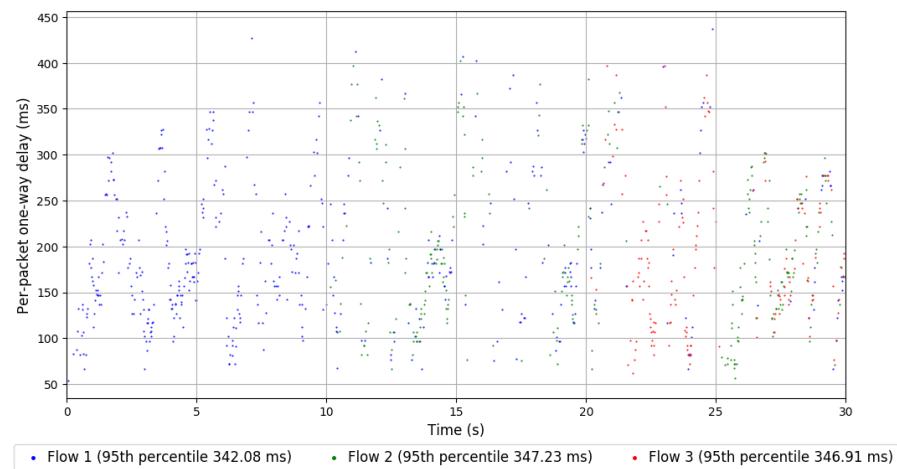
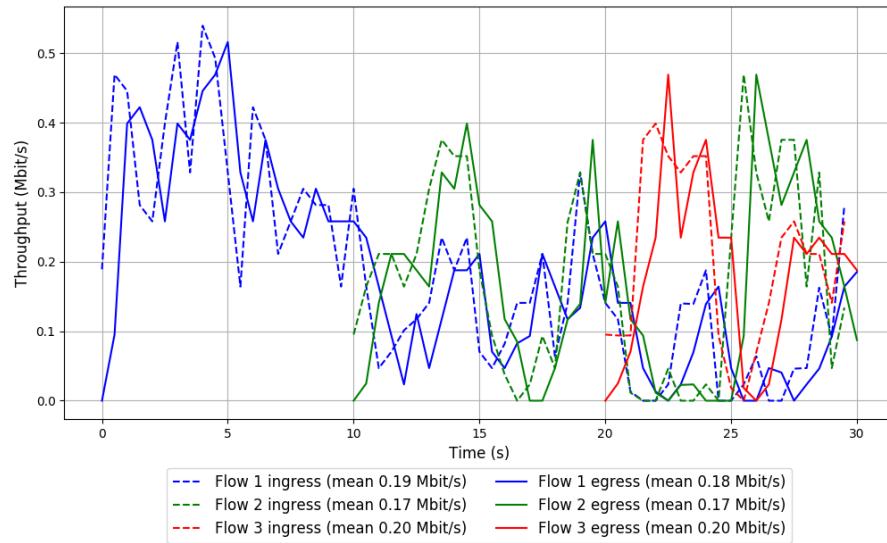


Run 2: Statistics of LEDBAT

```
Start at: 2018-06-19 08:08:08
End at: 2018-06-19 08:08:38
Local clock offset: 2.268 ms
Remote clock offset: -4.757 ms

# Below is generated by plot.py at 2018-06-19 08:31:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 346.882 ms
Loss rate: 3.91%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 342.084 ms
Loss rate: 3.97%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 347.227 ms
Loss rate: 2.38%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 346.910 ms
Loss rate: 6.33%
```

Run 2: Report of LEDBAT — Data Link

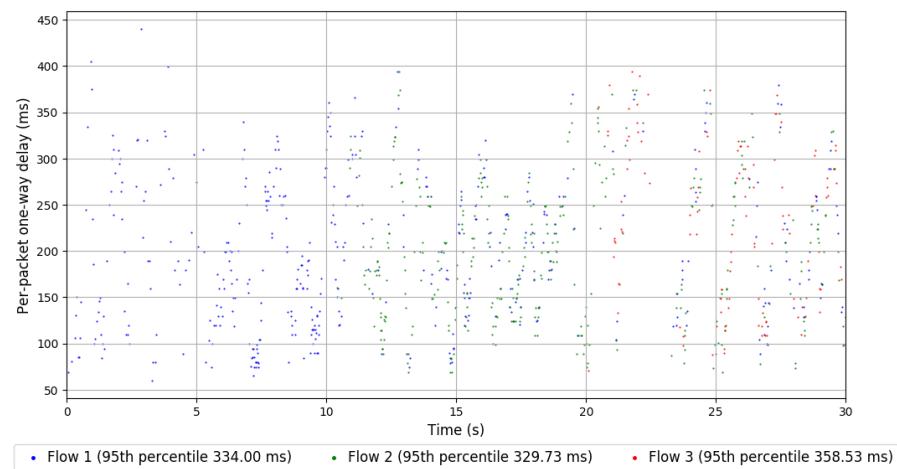
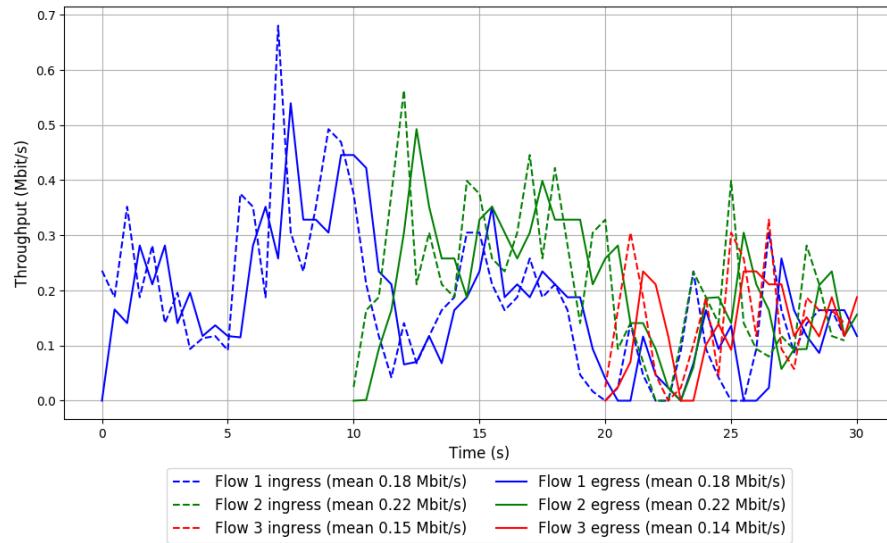


Run 3: Statistics of LEDBAT

```
Start at: 2018-06-19 08:25:44
End at: 2018-06-19 08:26:14
Local clock offset: 4.046 ms
Remote clock offset: -2.362 ms

# Below is generated by plot.py at 2018-06-19 08:31:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 338.682 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 333.998 ms
Loss rate: 2.17%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 329.730 ms
Loss rate: 2.18%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 358.533 ms
Loss rate: 4.85%
```

### Run 3: Report of LEDBAT — Data Link

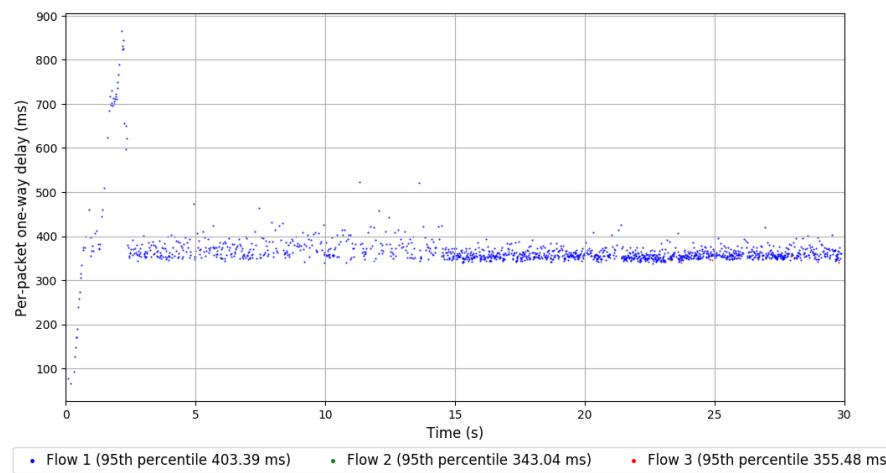
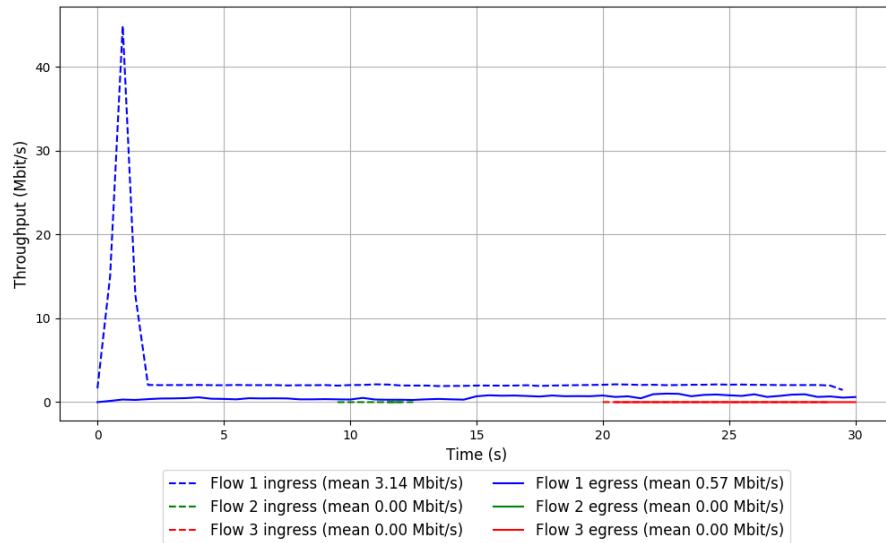


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2018-06-19 07:55:00
End at: 2018-06-19 07:55:30
Local clock offset: 2.422 ms
Remote clock offset: -6.534 ms

# Below is generated by plot.py at 2018-06-19 08:31:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 403.388 ms
Loss rate: 81.74%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 403.388 ms
Loss rate: 81.75%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 343.036 ms
Loss rate: 92.31%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 355.476 ms
Loss rate: 71.45%
```

## Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

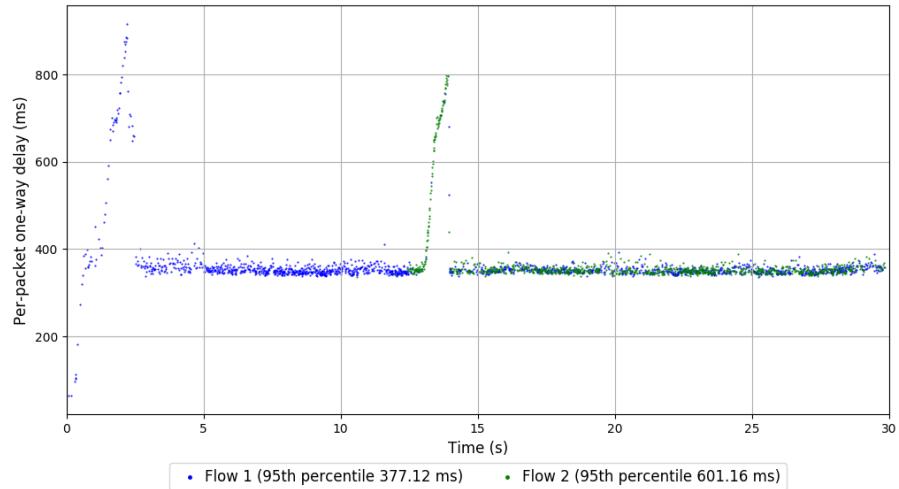
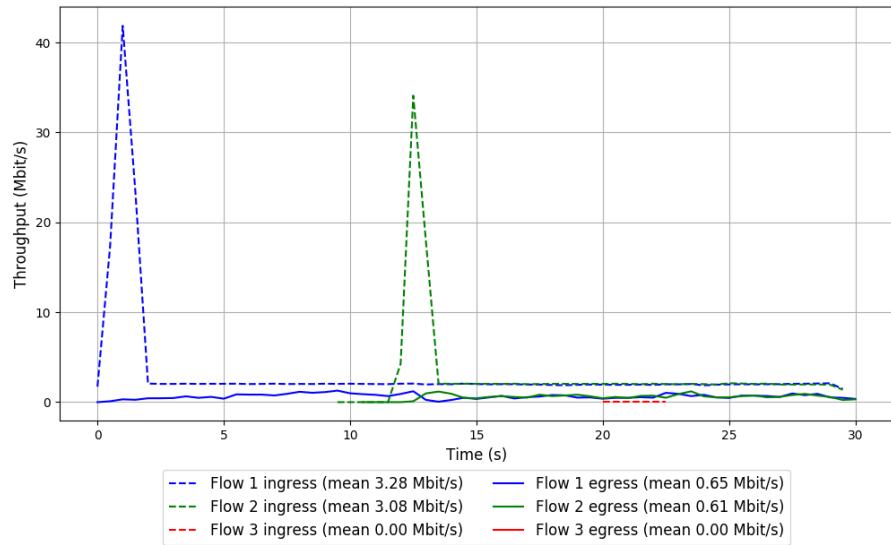
Start at: 2018-06-19 08:12:36

End at: 2018-06-19 08:13:06

Local clock offset: 1.477 ms

Remote clock offset: -1.605 ms

## Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

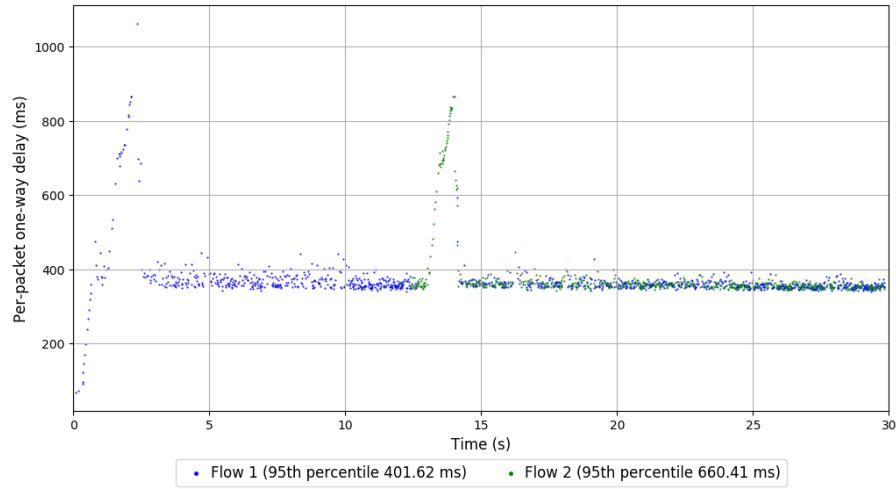
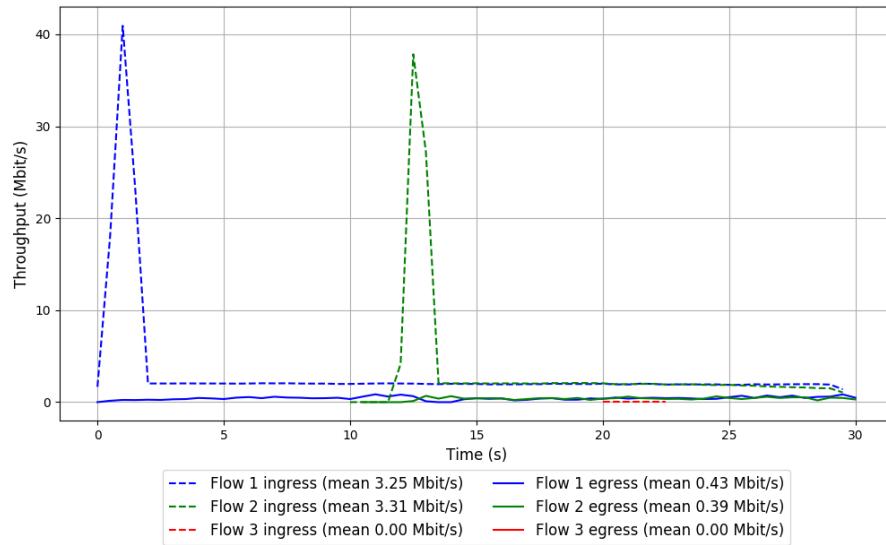
Start at: 2018-06-19 08:30:06

End at: 2018-06-19 08:30:36

Local clock offset: 3.198 ms

Remote clock offset: -1.122 ms

### Run 3: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

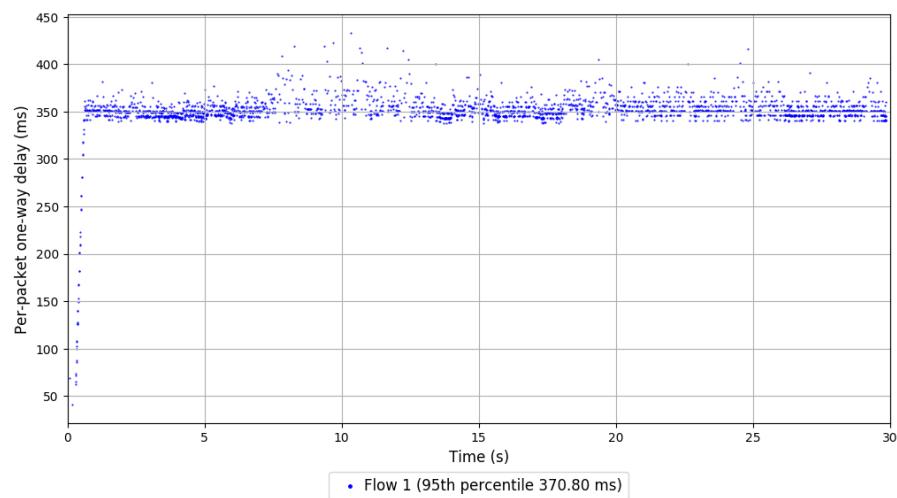
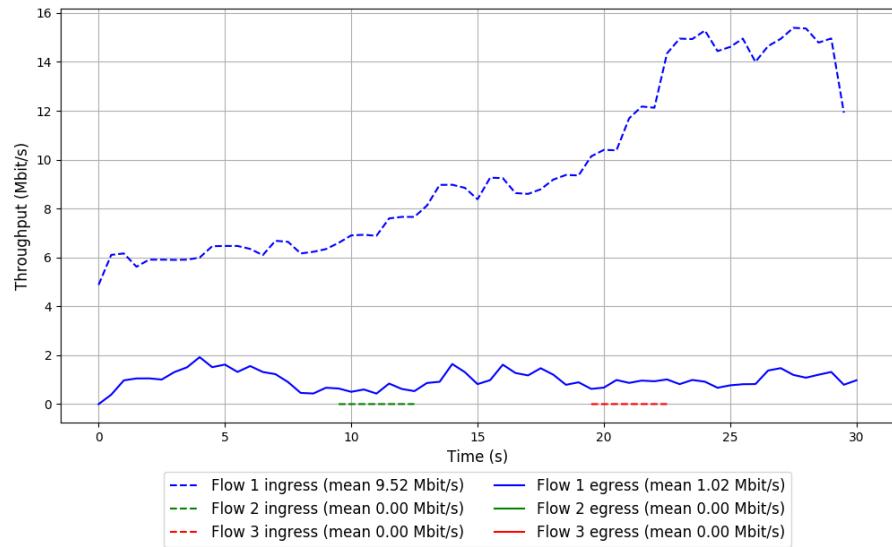
Start at: 2018-06-19 07:42:54

End at: 2018-06-19 07:43:24

Local clock offset: 1.079 ms

Remote clock offset: -3.886 ms

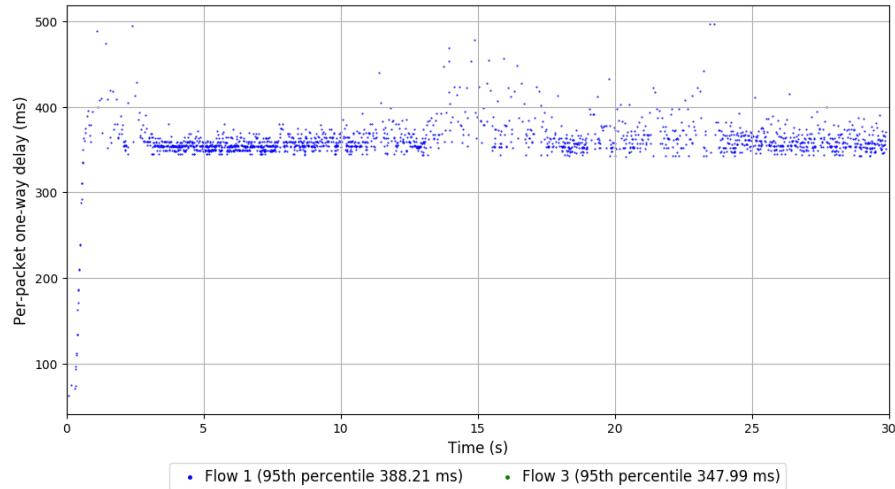
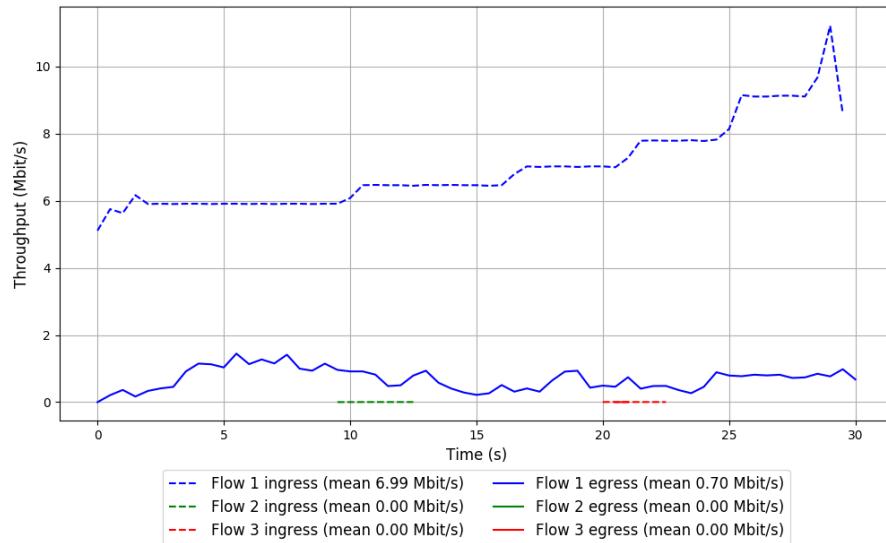
## Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 08:00:28  
End at: 2018-06-19 08:00:58  
Local clock offset: 2.81 ms  
Remote clock offset: -6.778 ms

## Run 2: Report of PCC-Expr — Data Link

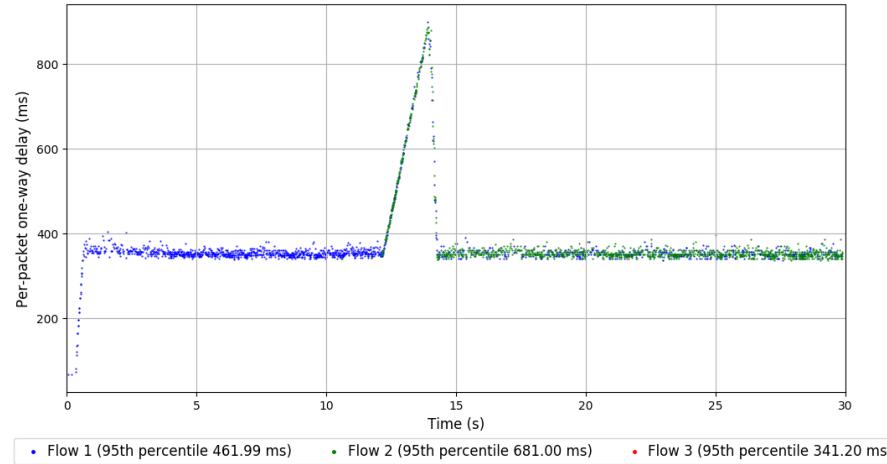
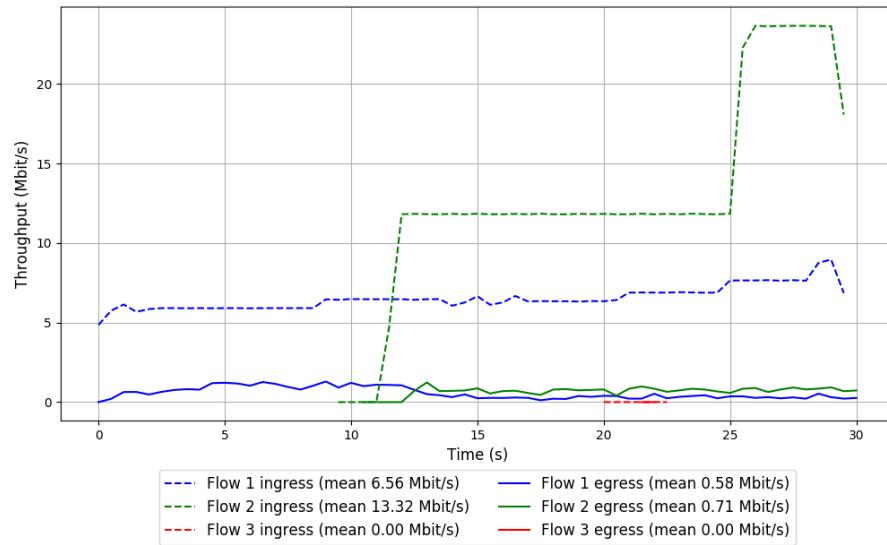


Run 3: Statistics of PCC-Expr

```
Start at: 2018-06-19 08:18:04
End at: 2018-06-19 08:18:34
Local clock offset: 2.186 ms
Remote clock offset: -1.01 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 587.611 ms
Loss rate: 93.31%
-- Flow 1:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 461.988 ms
Loss rate: 91.23%
-- Flow 2:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 680.999 ms
Loss rate: 94.85%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 341.204 ms
Loss rate: 92.31%
```

### Run 3: Report of PCC-Expr — Data Link

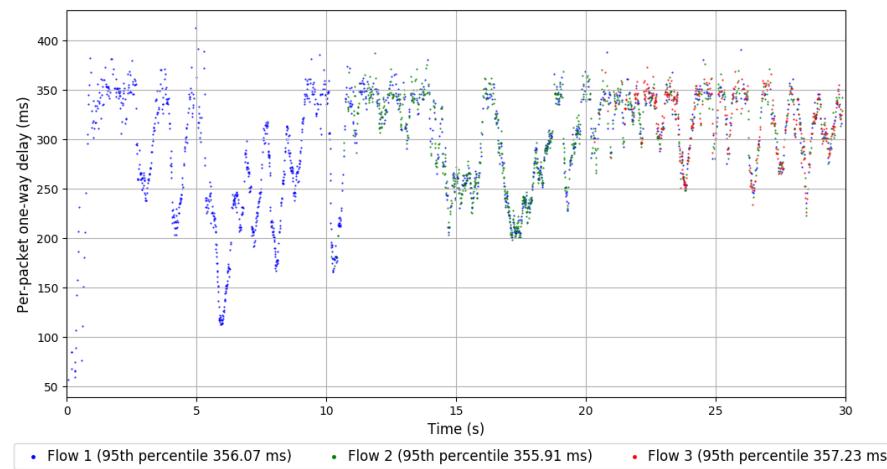
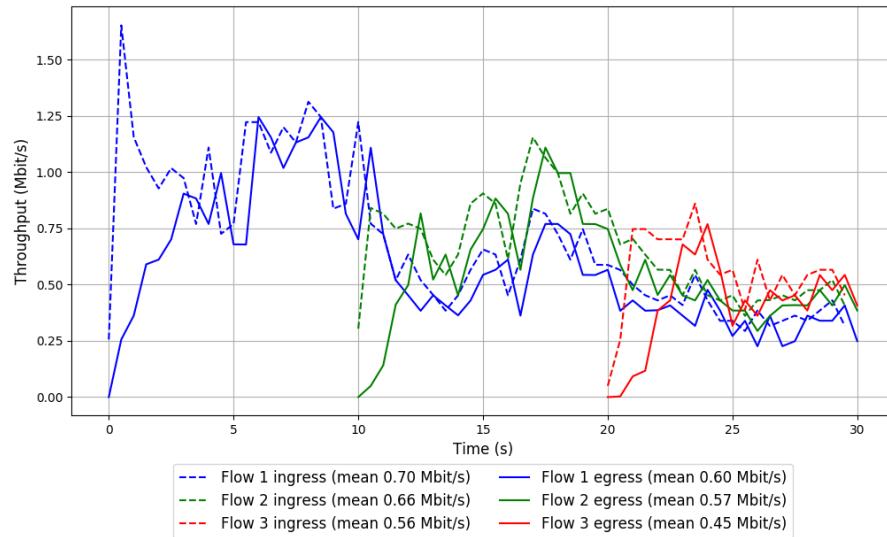


```
Run 1: Statistics of QUIC Cubic
```

```
Start at: 2018-06-19 07:44:00
End at: 2018-06-19 07:44:30
Local clock offset: 2.925 ms
Remote clock offset: -3.894 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.11 Mbit/s
95th percentile per-packet one-way delay: 356.069 ms
Loss rate: 15.99%
-- Flow 1:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 356.069 ms
Loss rate: 14.86%
-- Flow 2:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 355.906 ms
Loss rate: 14.83%
-- Flow 3:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 357.229 ms
Loss rate: 23.02%
```

Run 1: Report of QUIC Cubic — Data Link

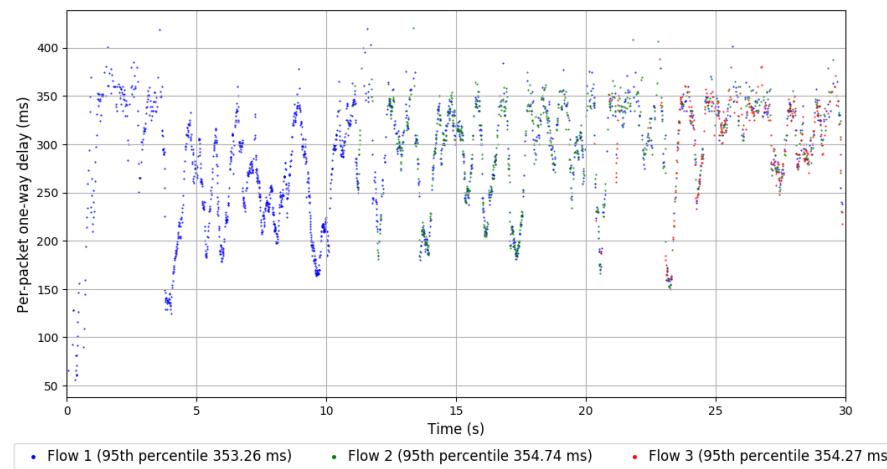
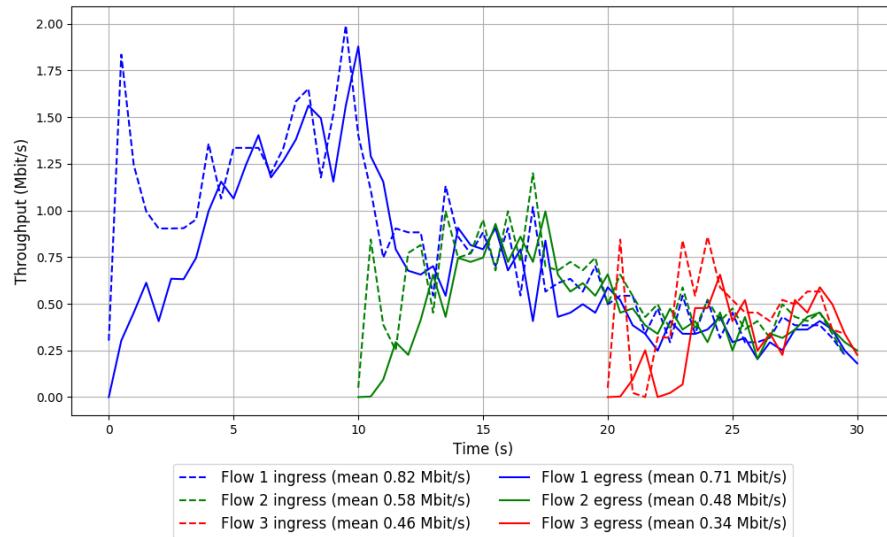


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-06-19 08:01:34
End at: 2018-06-19 08:02:04
Local clock offset: 1.002 ms
Remote clock offset: -5.273 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.13 Mbit/s
95th percentile per-packet one-way delay: 354.319 ms
Loss rate: 16.88%
-- Flow 1:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 353.261 ms
Loss rate: 14.31%
-- Flow 2:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 354.741 ms
Loss rate: 17.50%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 354.270 ms
Loss rate: 29.26%
```

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

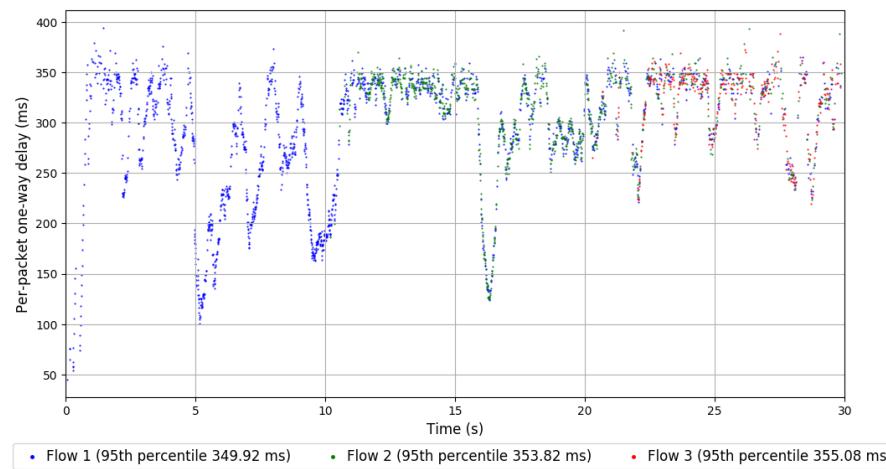
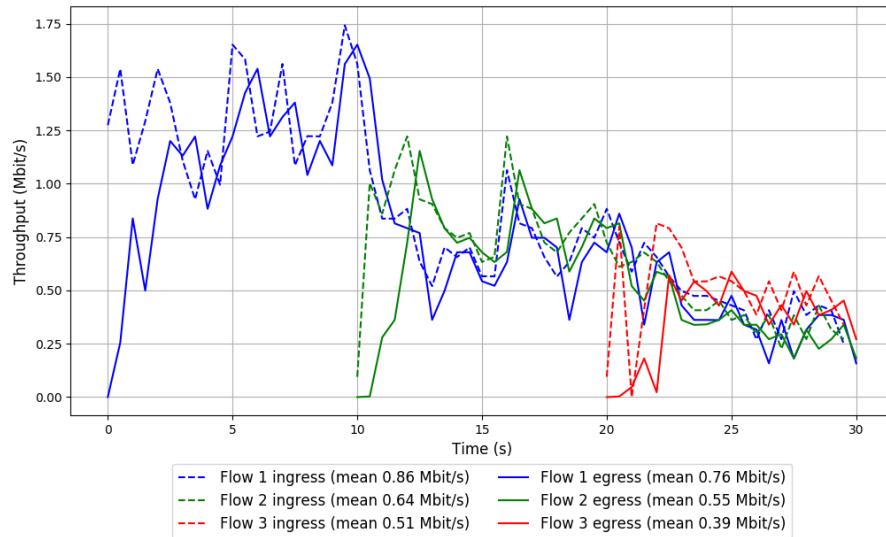


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-06-19 08:19:11
End at: 2018-06-19 08:19:41
Local clock offset: 0.887 ms
Remote clock offset: -0.314 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 352.227 ms
Loss rate: 14.66%
-- Flow 1:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 349.917 ms
Loss rate: 12.45%
-- Flow 2:
Average throughput: 0.55 Mbit/s
95th percentile per-packet one-way delay: 353.817 ms
Loss rate: 14.73%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 355.082 ms
Loss rate: 25.81%
```

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

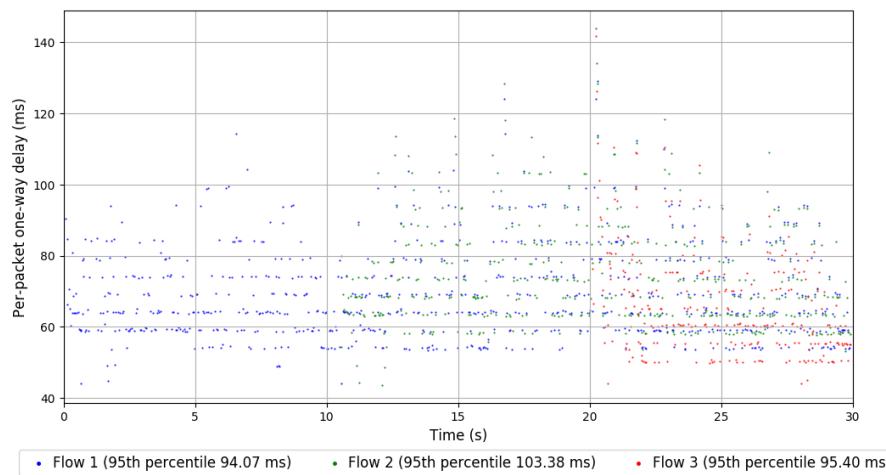
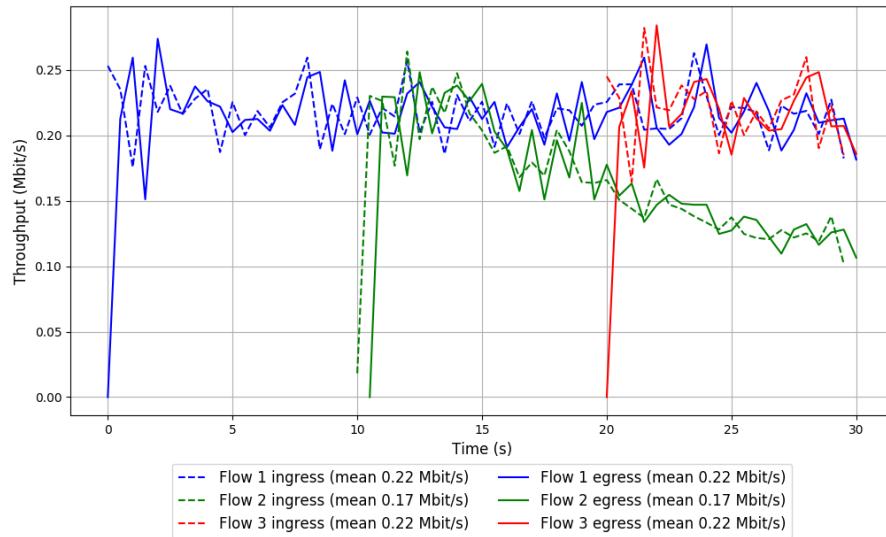


```
Run 1: Statistics of SCReAM

Start at: 2018-06-19 07:52:49
End at: 2018-06-19 07:53:19
Local clock offset: 3.435 ms
Remote clock offset: -3.782 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 98.210 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.072 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 103.379 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 95.401 ms
Loss rate: 0.71%
```

## Run 1: Report of SCReAM — Data Link

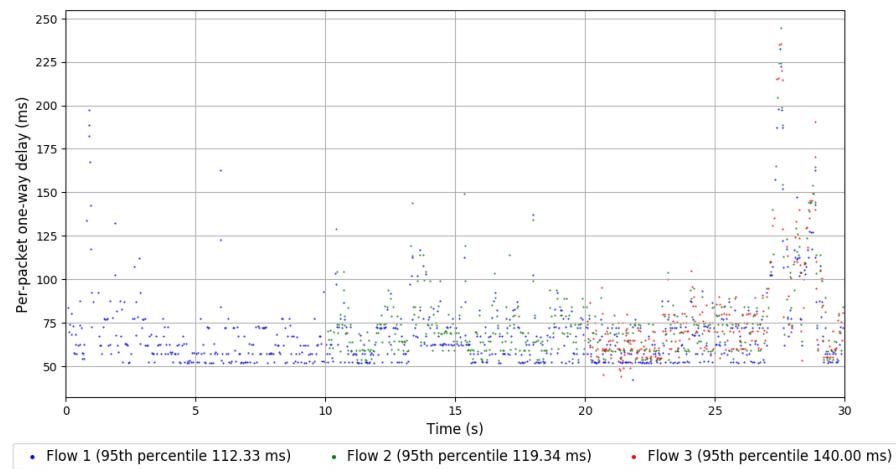
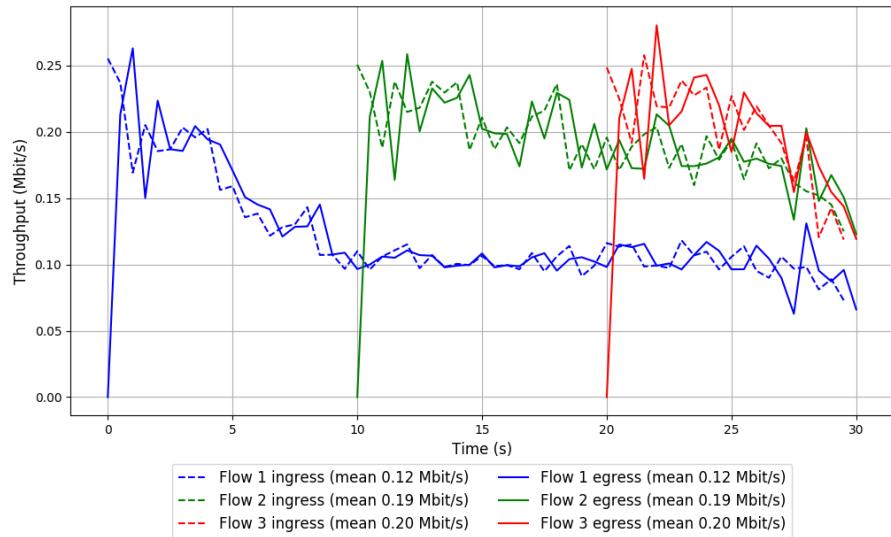


Run 2: Statistics of SCReAM

```
Start at: 2018-06-19 08:10:26
End at: 2018-06-19 08:10:56
Local clock offset: 2.224 ms
Remote clock offset: -2.365 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 119.034 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 112.330 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 119.336 ms
Loss rate: 0.29%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 139.998 ms
Loss rate: 0.50%
```

## Run 2: Report of SCReAM — Data Link

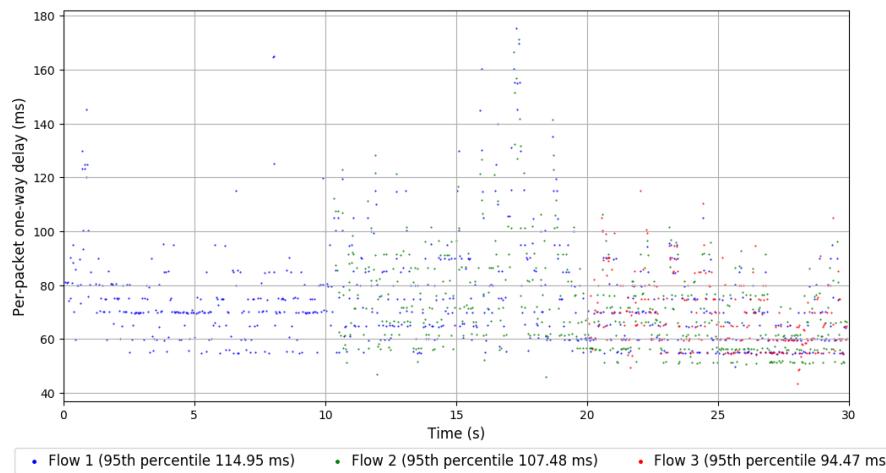
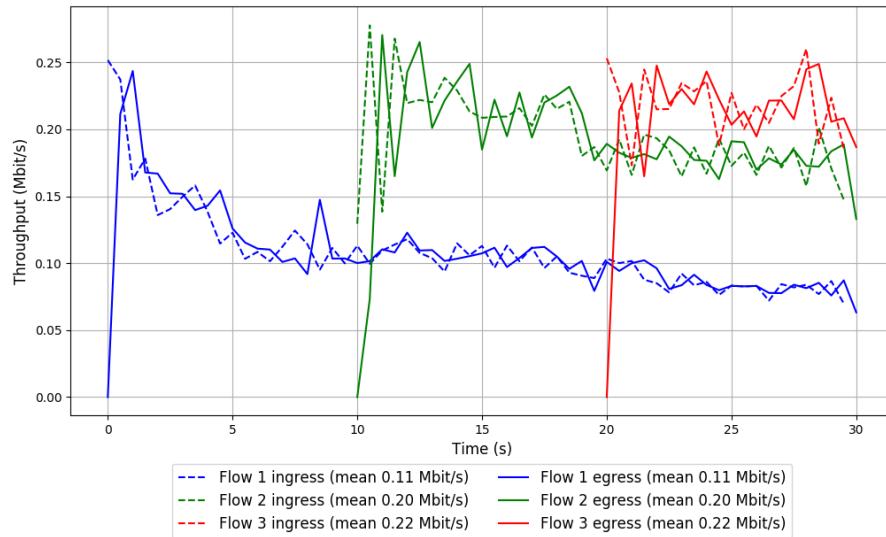


Run 3: Statistics of SCReAM

```
Start at: 2018-06-19 08:27:55
End at: 2018-06-19 08:28:25
Local clock offset: 1.198 ms
Remote clock offset: -0.646 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 105.873 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 114.947 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 107.479 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.470 ms
Loss rate: 0.71%
```

Run 3: Report of SCReAM — Data Link

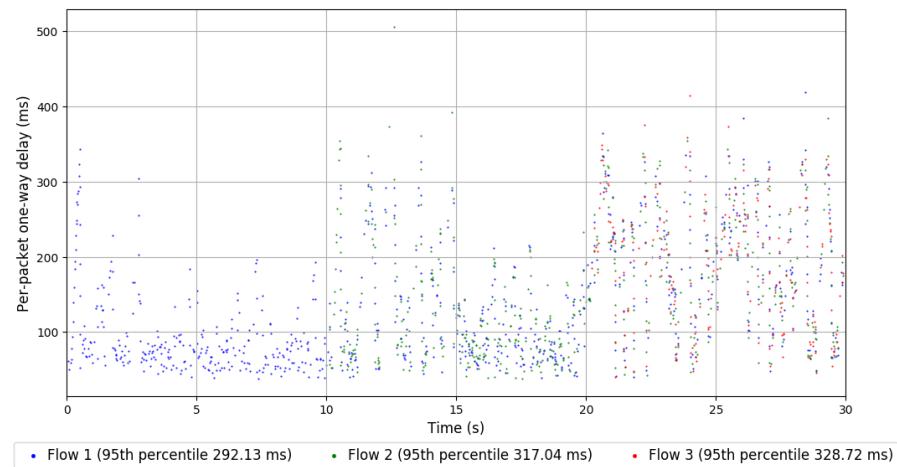
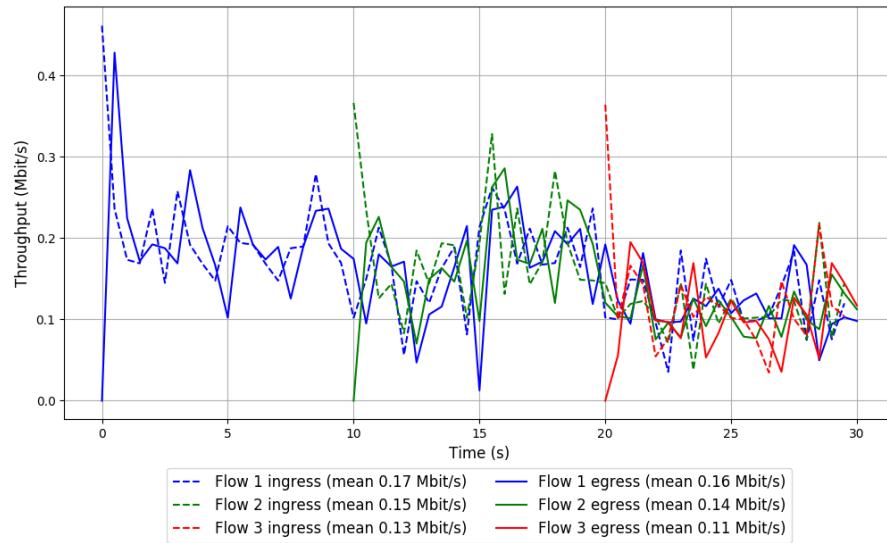


Run 1: Statistics of Sprout

```
Start at: 2018-06-19 07:47:16
End at: 2018-06-19 07:47:46
Local clock offset: 2.202 ms
Remote clock offset: -3.024 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 307.226 ms
Loss rate: 4.80%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 292.128 ms
Loss rate: 2.42%
-- Flow 2:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 317.036 ms
Loss rate: 5.24%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 328.724 ms
Loss rate: 13.31%
```

Run 1: Report of Sprout — Data Link

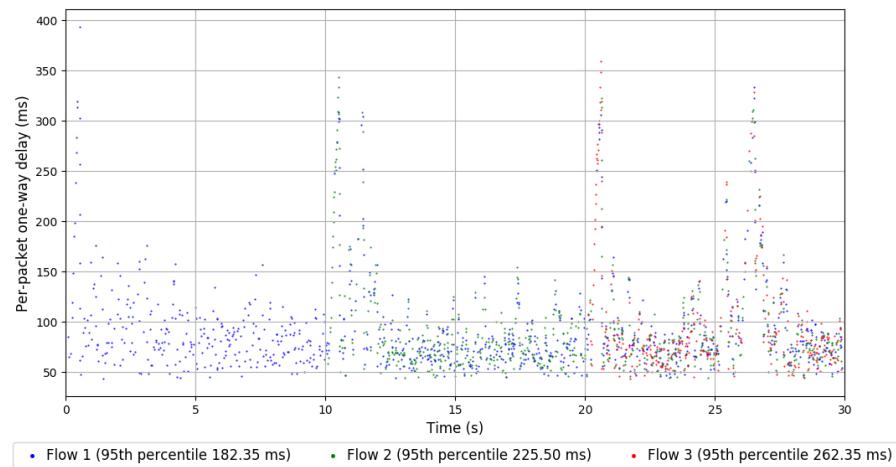
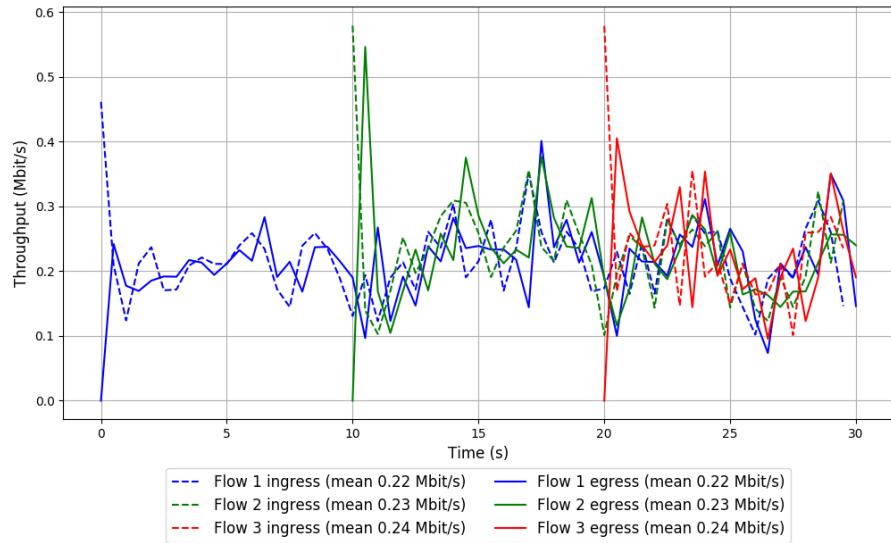


Run 2: Statistics of Sprout

```
Start at: 2018-06-19 08:04:51
End at: 2018-06-19 08:05:21
Local clock offset: 4.069 ms
Remote clock offset: -6.03 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 217.551 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 182.347 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 225.496 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 262.352 ms
Loss rate: 1.97%
```

## Run 2: Report of Sprout — Data Link

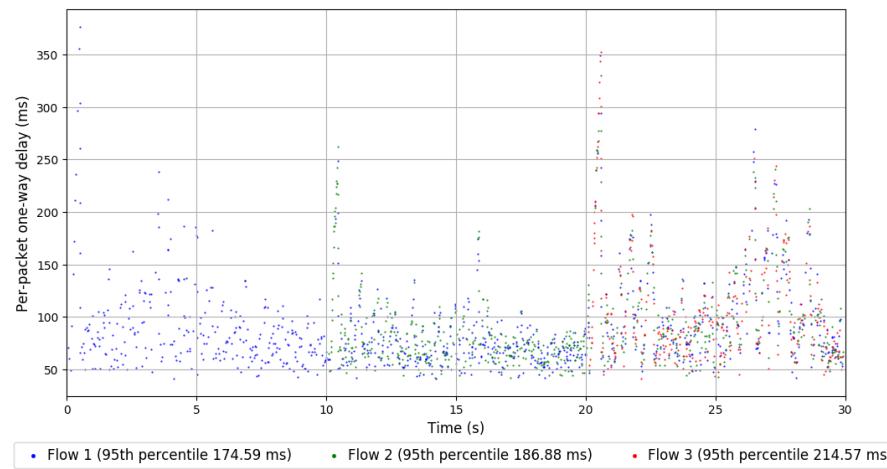
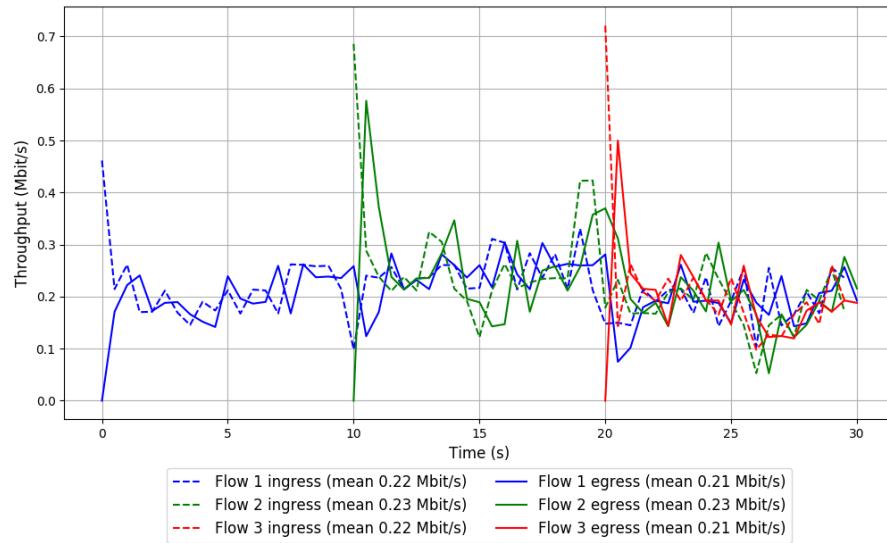


Run 3: Statistics of Sprout

```
Start at: 2018-06-19 08:22:27
End at: 2018-06-19 08:22:57
Local clock offset: 2.85 ms
Remote clock offset: -0.404 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 185.342 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 174.586 ms
Loss rate: 2.83%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 186.877 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 214.569 ms
Loss rate: 4.52%
```

### Run 3: Report of Sprout — Data Link

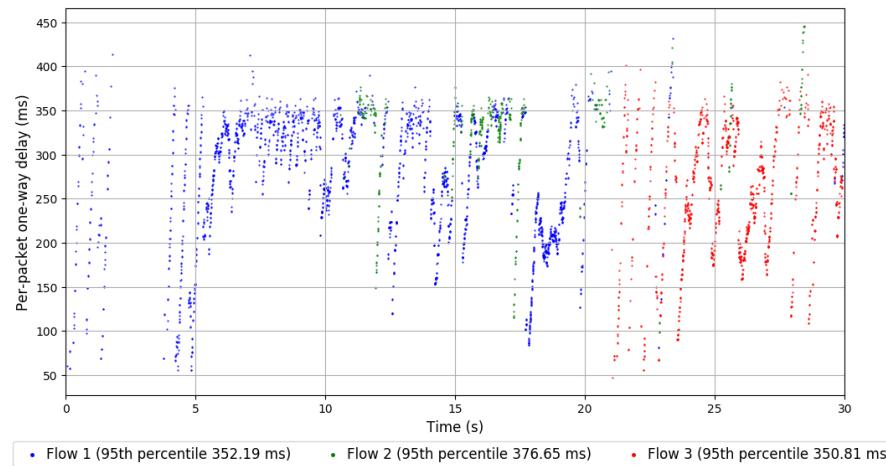
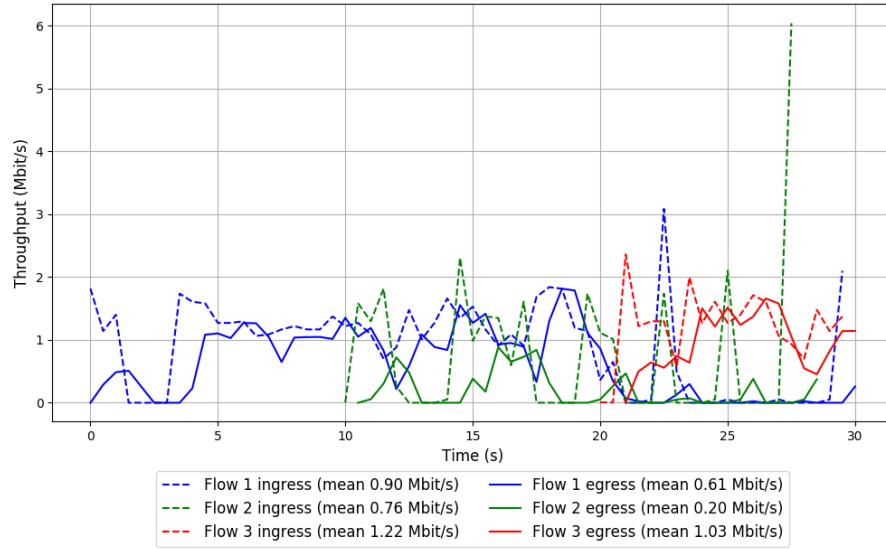


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-06-19 07:45:05
End at: 2018-06-19 07:45:35
Local clock offset: 3.186 ms
Remote clock offset: -3.555 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 355.376 ms
Loss rate: 40.44%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 352.188 ms
Loss rate: 31.19%
-- Flow 2:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 376.650 ms
Loss rate: 72.94%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 350.806 ms
Loss rate: 24.65%
```

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

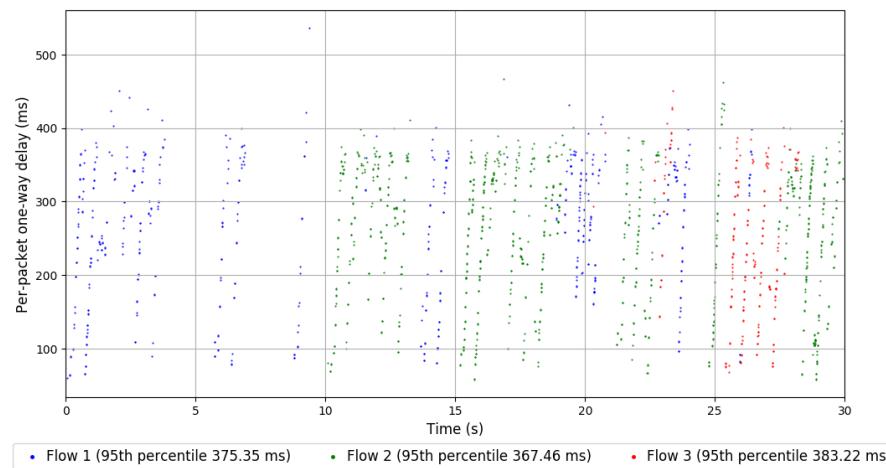
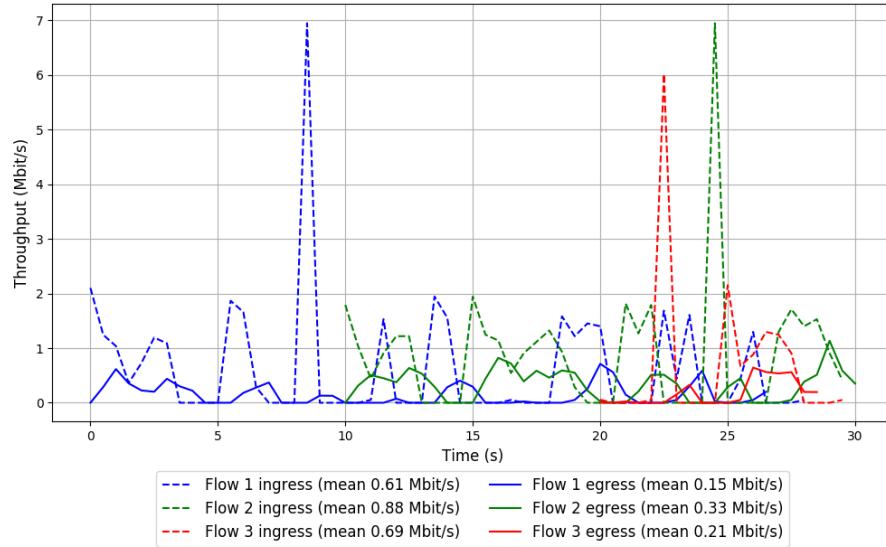


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-06-19 08:02:40
End at: 2018-06-19 08:03:10
Local clock offset: 3.811 ms
Remote clock offset: -5.237 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 373.609 ms
Loss rate: 70.87%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 375.354 ms
Loss rate: 77.73%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 367.459 ms
Loss rate: 62.29%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 383.216 ms
Loss rate: 75.58%
```

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

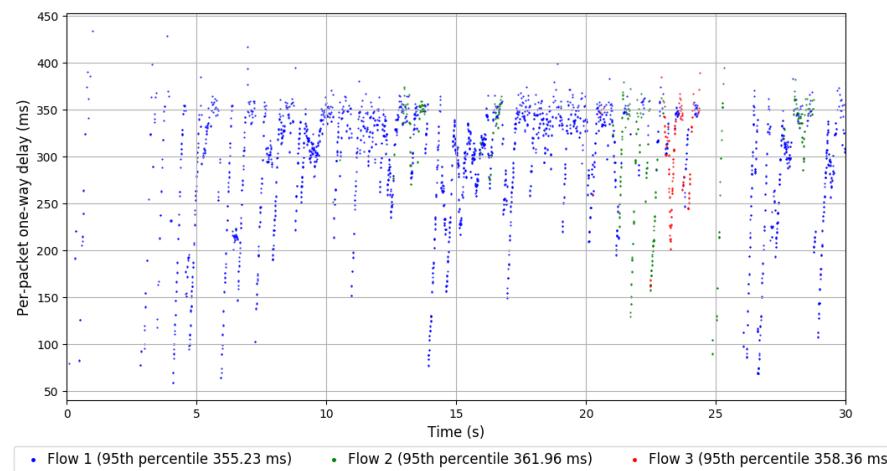
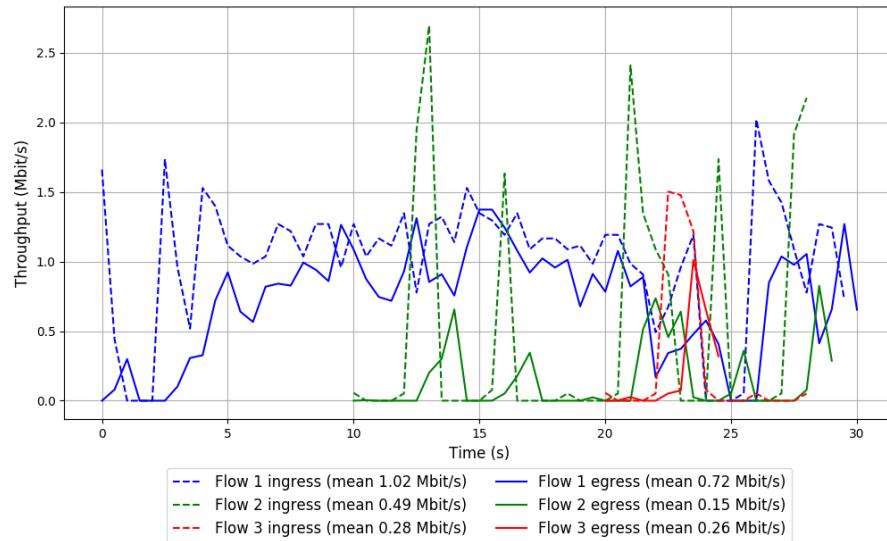


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-06-19 08:20:16
End at: 2018-06-19 08:20:46
Local clock offset: 2.501 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.85 Mbit/s
95th percentile per-packet one-way delay: 356.436 ms
Loss rate: 38.97%
-- Flow 1:
Average throughput: 0.72 Mbit/s
95th percentile per-packet one-way delay: 355.226 ms
Loss rate: 29.17%
-- Flow 2:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 361.965 ms
Loss rate: 68.50%
-- Flow 3:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 358.360 ms
Loss rate: 52.41%
```

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

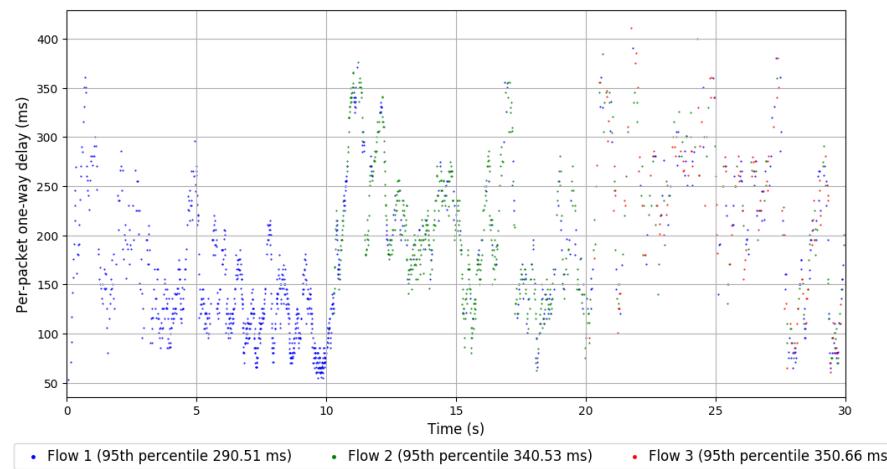
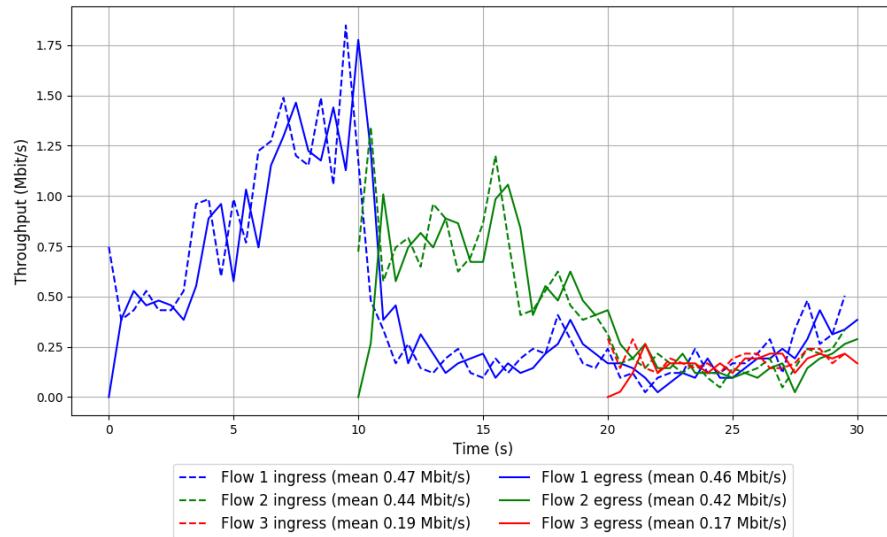


Run 1: Statistics of TCP Vegas

```
Start at: 2018-06-19 07:51:44
End at: 2018-06-19 07:52:14
Local clock offset: 3.603 ms
Remote clock offset: -4.158 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 330.129 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 290.510 ms
Loss rate: 1.97%
-- Flow 2:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 340.527 ms
Loss rate: 3.97%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 350.663 ms
Loss rate: 9.67%
```

## Run 1: Report of TCP Vegas — Data Link

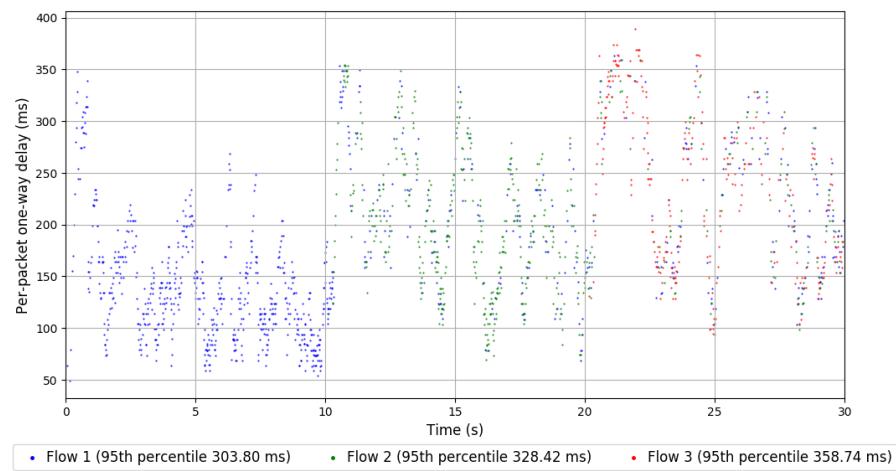
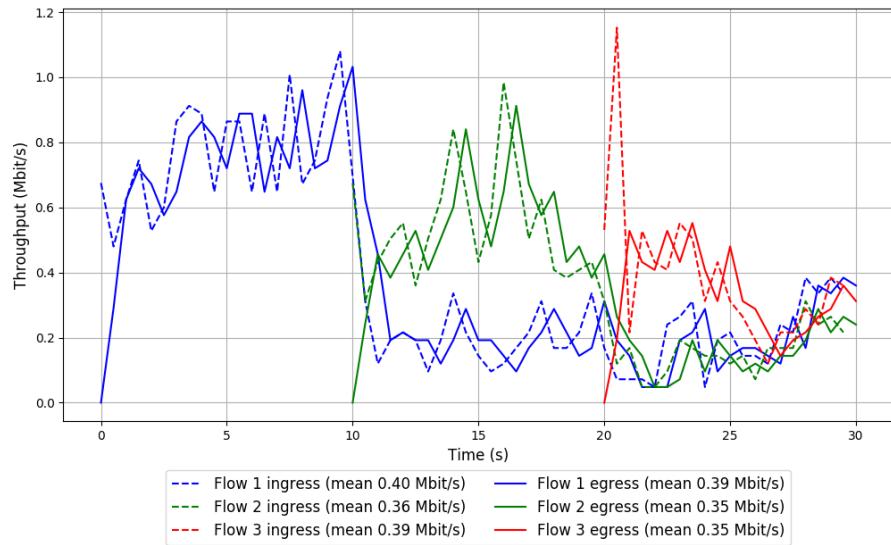


Run 2: Statistics of TCP Vegas

```
Start at: 2018-06-19 08:09:14
End at: 2018-06-19 08:09:44
Local clock offset: 1.1 ms
Remote clock offset: -2.597 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 328.817 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 303.802 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 328.418 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 358.740 ms
Loss rate: 10.34%
```

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

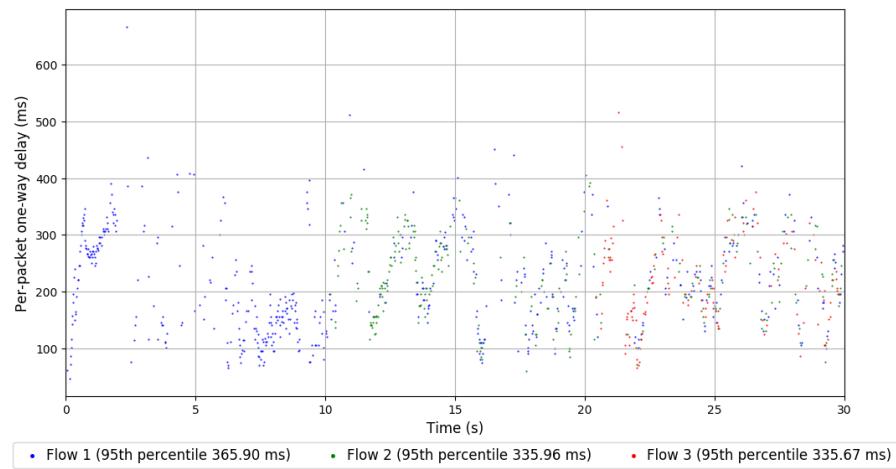
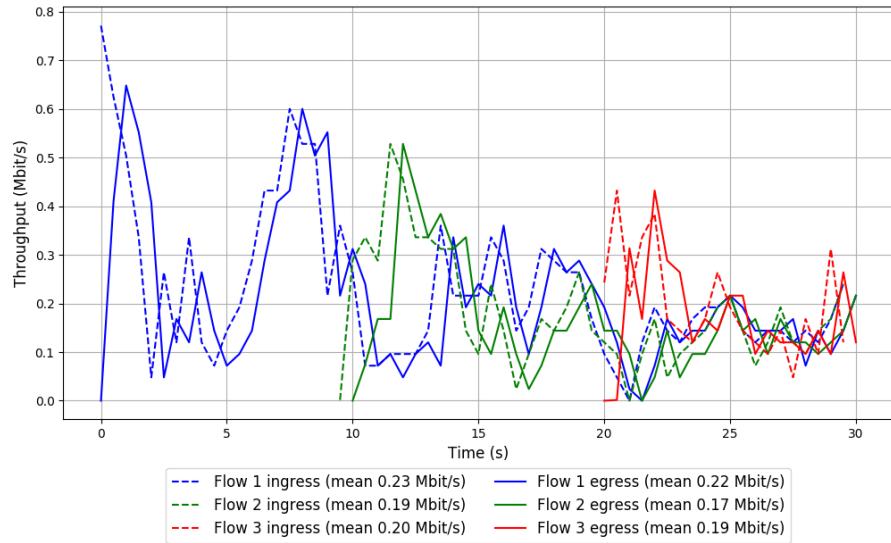


Run 3: Statistics of TCP Vegas

```
Start at: 2018-06-19 08:26:49
End at: 2018-06-19 08:27:19
Local clock offset: 2.164 ms
Remote clock offset: -1.657 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 346.422 ms
Loss rate: 8.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 365.896 ms
Loss rate: 6.76%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 335.957 ms
Loss rate: 10.64%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 335.668 ms
Loss rate: 9.81%
```

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

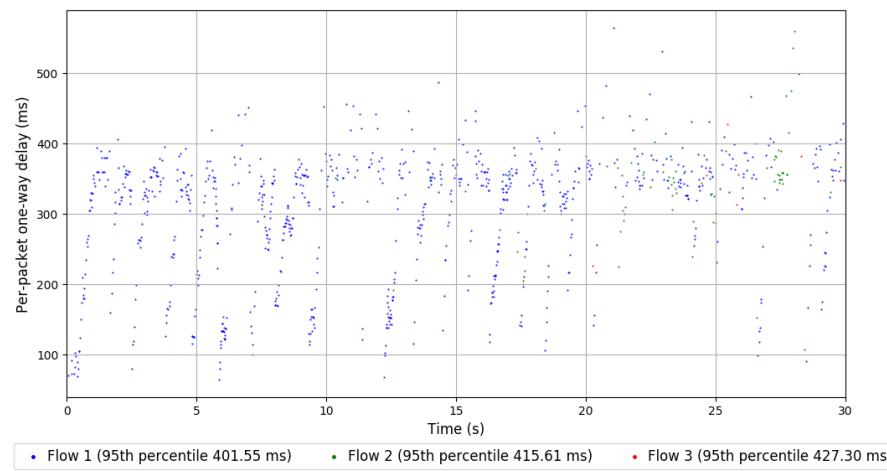
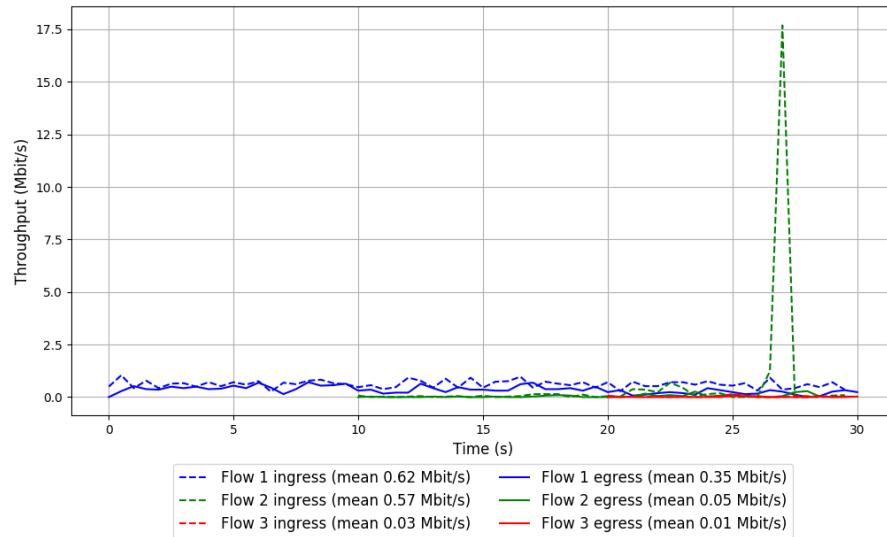


Run 1: Statistics of Verus

```
Start at: 2018-06-19 07:48:22
End at: 2018-06-19 07:48:52
Local clock offset: 1.213 ms
Remote clock offset: -3.828 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 403.443 ms
Loss rate: 61.86%
-- Flow 1:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 401.545 ms
Loss rate: 43.60%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 415.605 ms
Loss rate: 91.73%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 427.297 ms
Loss rate: 61.54%
```

## Run 1: Report of Verus — Data Link

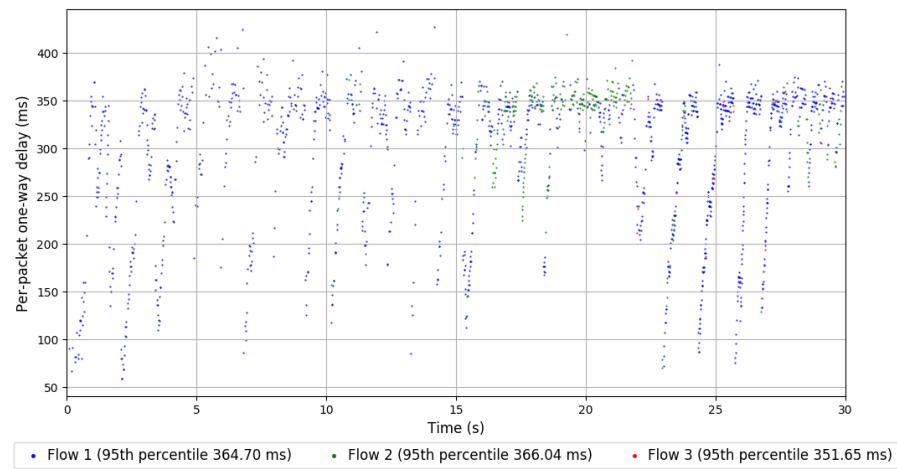
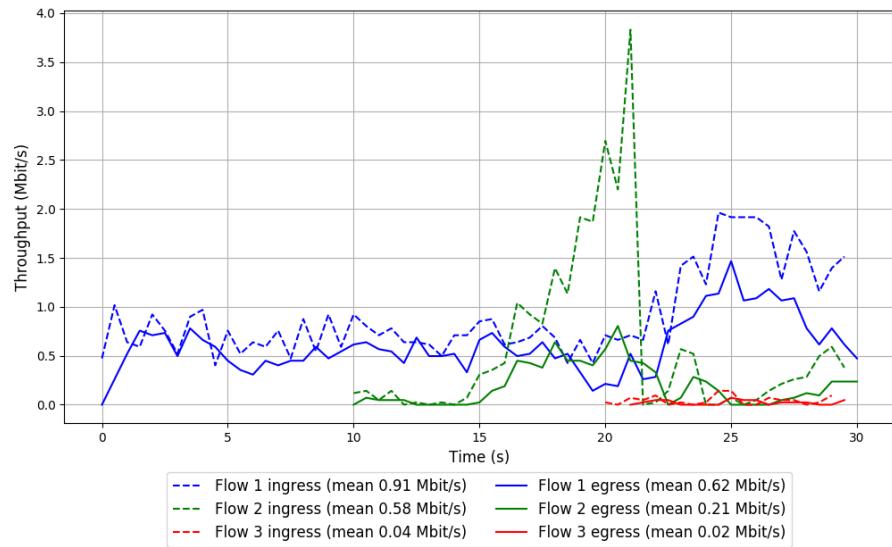


Run 2: Statistics of Verus

```
Start at: 2018-06-19 08:05:57
End at: 2018-06-19 08:06:27
Local clock offset: 0.543 ms
Remote clock offset: -3.841 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 364.841 ms
Loss rate: 42.26%
-- Flow 1:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 364.703 ms
Loss rate: 32.36%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 366.039 ms
Loss rate: 65.07%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 351.655 ms
Loss rate: 52.78%
```

## Run 2: Report of Verus — Data Link

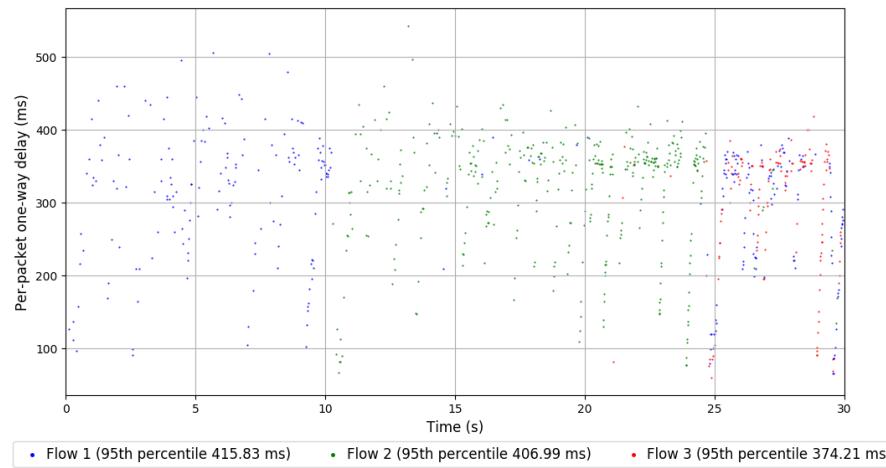
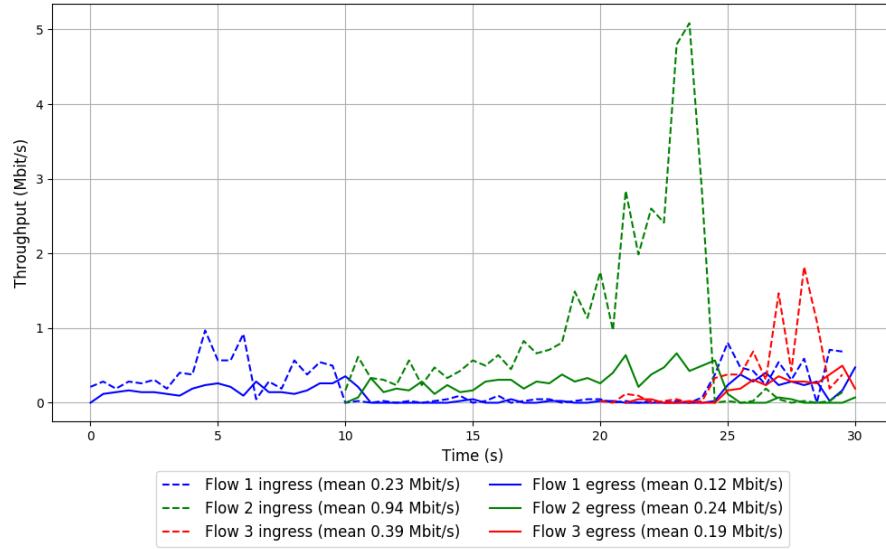


Run 3: Statistics of Verus

```
Start at: 2018-06-19 08:23:33
End at: 2018-06-19 08:24:03
Local clock offset: 0.342 ms
Remote clock offset: -1.044 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 408.028 ms
Loss rate: 66.63%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 415.835 ms
Loss rate: 49.07%
-- Flow 2:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 406.985 ms
Loss rate: 75.00%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 374.210 ms
Loss rate: 58.05%
```

### Run 3: Report of Verus — Data Link

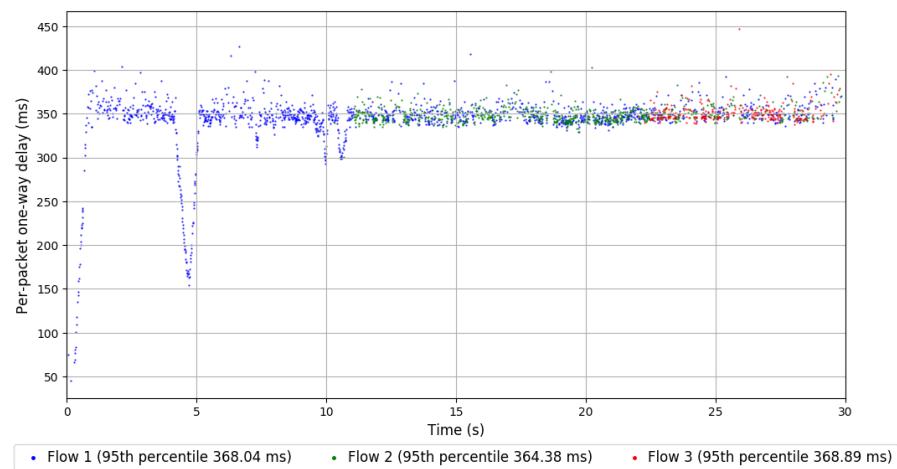
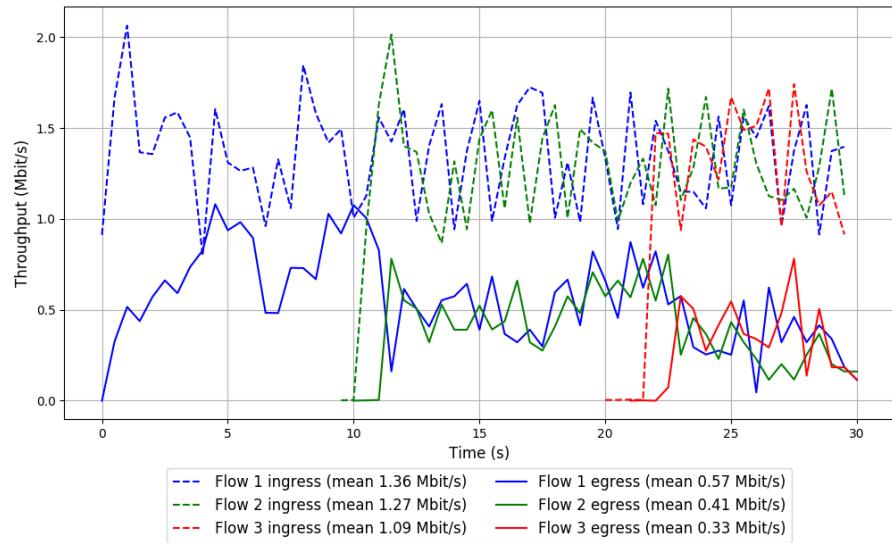


```
Run 1: Statistics of PCC-Vivace
```

```
Start at: 2018-06-19 07:46:11
End at: 2018-06-19 07:46:41
Local clock offset: 2.037 ms
Remote clock offset: -3.245 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 367.436 ms
Loss rate: 63.63%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 368.036 ms
Loss rate: 58.23%
-- Flow 2:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 364.385 ms
Loss rate: 68.30%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 368.886 ms
Loss rate: 73.04%
```

Run 1: Report of PCC-Vivace — Data Link

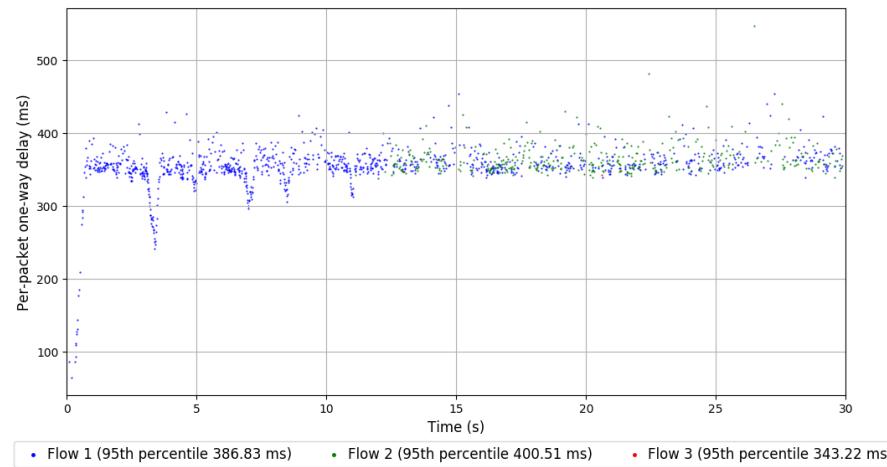
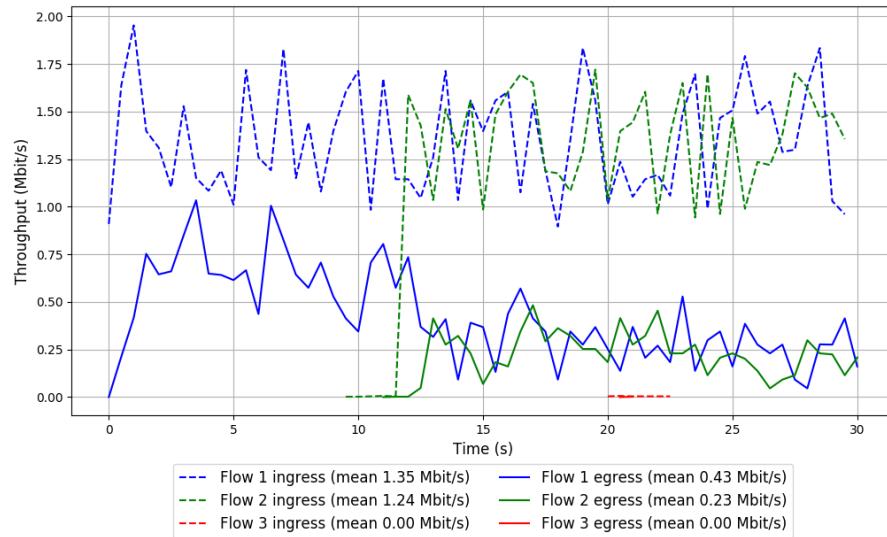


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-06-19 08:03:45
End at: 2018-06-19 08:04:15
Local clock offset: 4.044 ms
Remote clock offset: -6.399 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.58 Mbit/s
95th percentile per-packet one-way delay: 391.043 ms
Loss rate: 73.66%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 386.835 ms
Loss rate: 68.26%
-- Flow 2:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 400.506 ms
Loss rate: 82.52%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 343.216 ms
Loss rate: 92.31%
```

## Run 2: Report of PCC-Vivace — Data Link

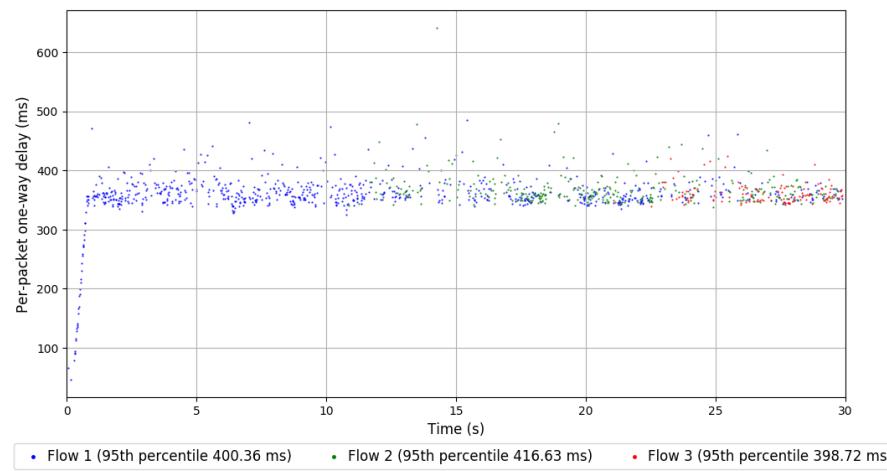
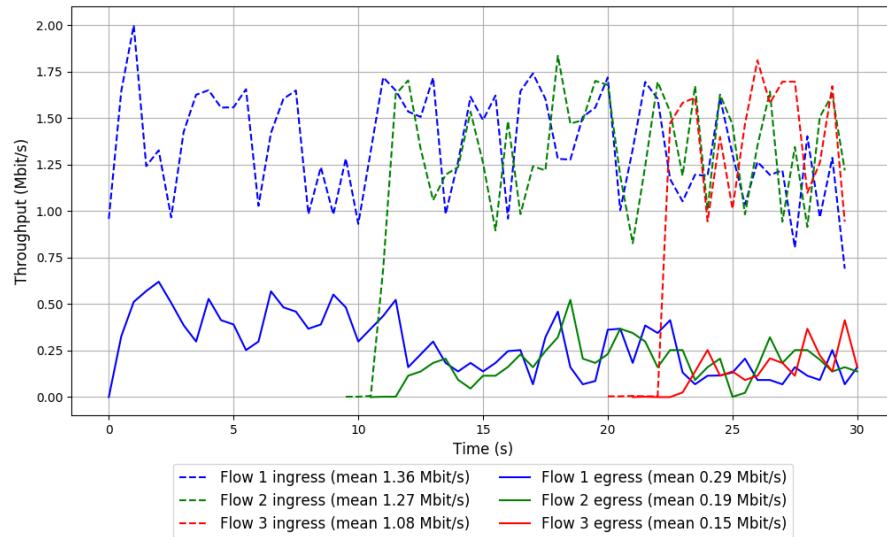


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-06-19 08:21:22
End at: 2018-06-19 08:21:52
Local clock offset: 2.607 ms
Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 405.611 ms
Loss rate: 82.34%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 400.359 ms
Loss rate: 78.95%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 416.628 ms
Loss rate: 85.68%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 398.722 ms
Loss rate: 87.36%
```

Run 3: Report of PCC-Vivace — Data Link

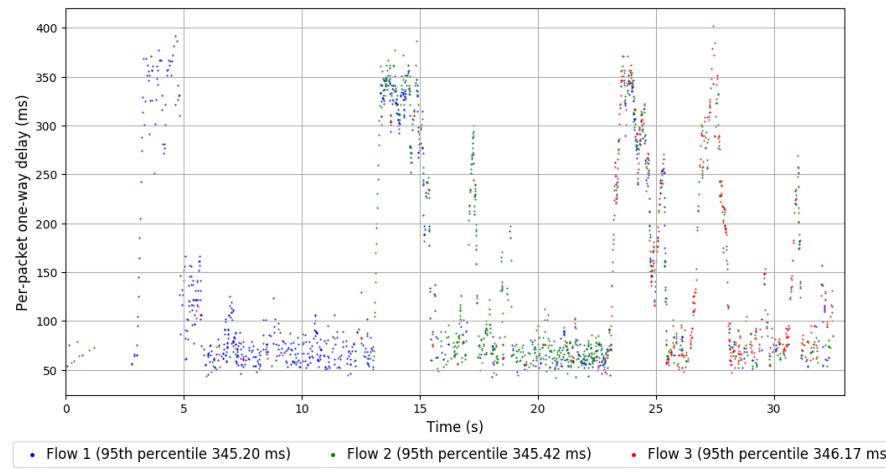
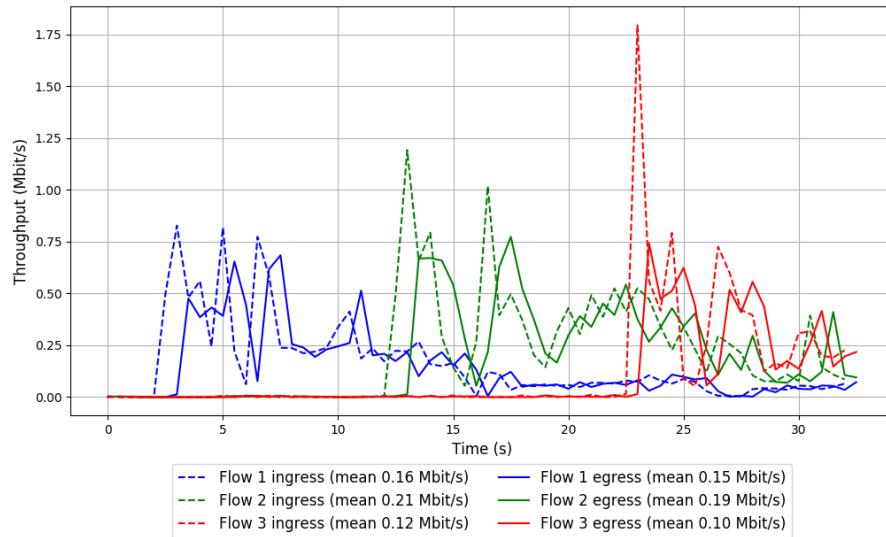


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2018-06-19 07:53:54
End at: 2018-06-19 07:54:24
Local clock offset: 4.346 ms
Remote clock offset: -4.978 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 345.532 ms
Loss rate: 10.11%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 345.200 ms
Loss rate: 9.08%
-- Flow 2:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 345.423 ms
Loss rate: 7.88%
-- Flow 3:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 346.165 ms
Loss rate: 15.35%
```

Run 1: Report of WebRTC media — Data Link

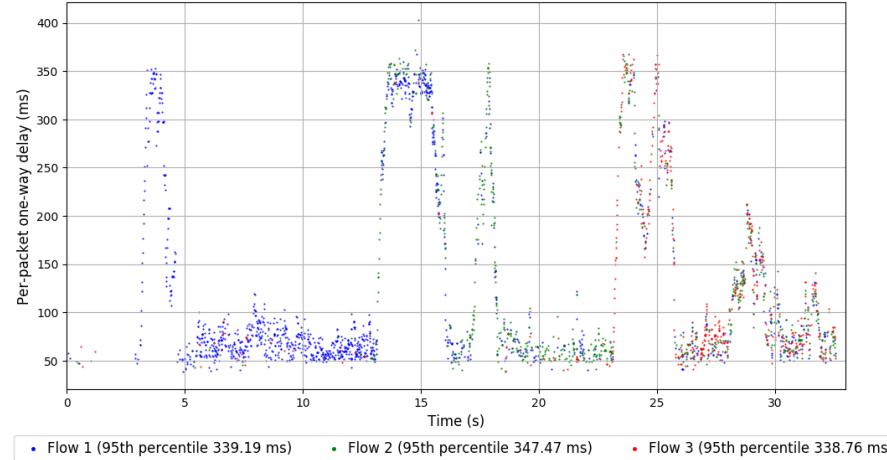
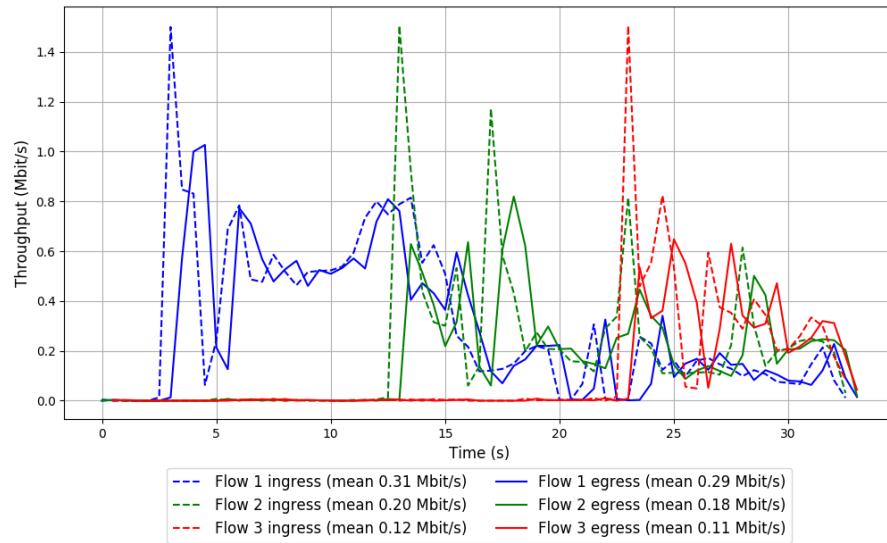


Run 2: Statistics of WebRTC media

```
Start at: 2018-06-19 08:11:31
End at: 2018-06-19 08:12:01
Local clock offset: 0.498 ms
Remote clock offset: -1.887 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 341.788 ms
Loss rate: 10.23%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 339.192 ms
Loss rate: 6.57%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 347.466 ms
Loss rate: 13.01%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 338.763 ms
Loss rate: 14.99%
```

## Run 2: Report of WebRTC media — Data Link



```
Run 3: Statistics of WebRTC media

Start at: 2018-06-19 08:29:00
End at: 2018-06-19 08:29:30
Local clock offset: 0.313 ms
Remote clock offset: -0.621 ms

# Below is generated by plot.py at 2018-06-19 08:32:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 354.385 ms
Loss rate: 17.70%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 354.126 ms
Loss rate: 15.91%
-- Flow 2:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 358.355 ms
Loss rate: 21.87%
-- Flow 3:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 349.601 ms
Loss rate: 15.58%
```

### Run 3: Report of WebRTC media — Data Link

