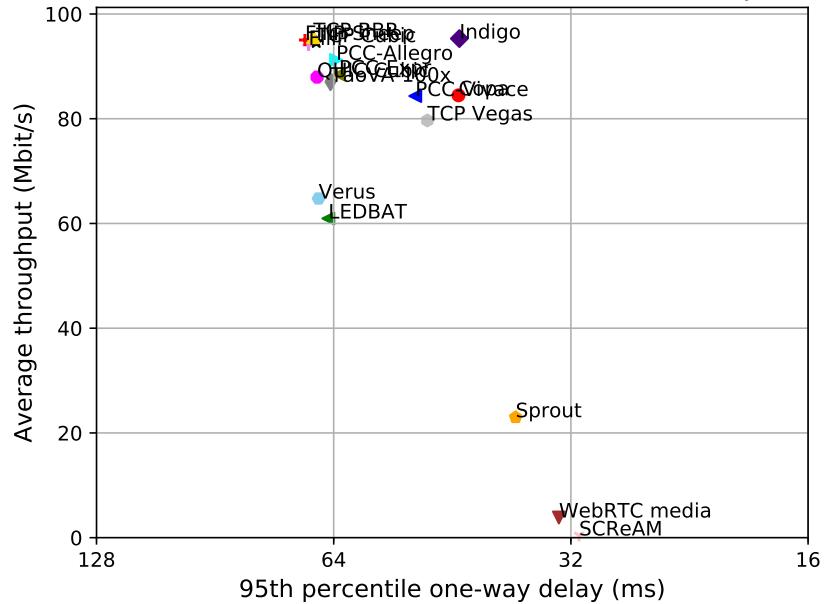


Pantheon Report

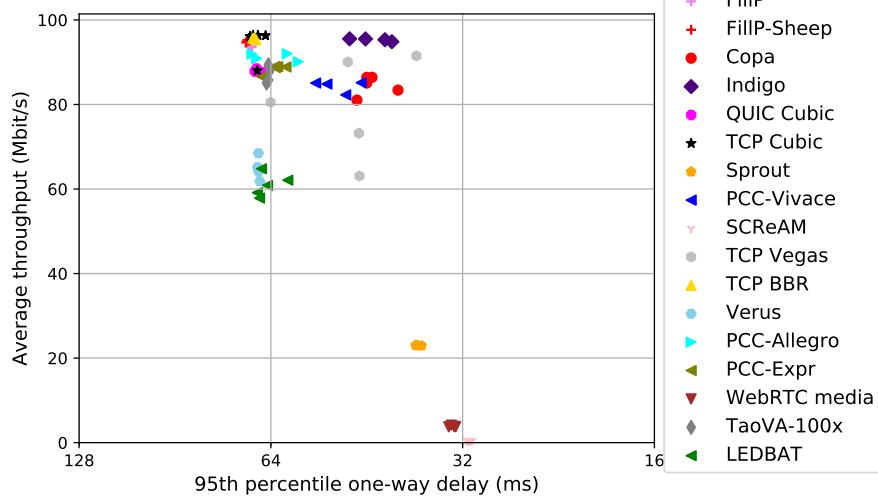
Generated at 2018-07-03 23:02:31 (UTC).
Data path: AWS California 2 Ethernet (*local*) → Mexico Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

```
Git summary:  
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0  
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834  
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5  
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4  
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d  
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf  
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
  M receiver/src/buffer.h  
  M receiver/src/core.cpp  
  M sender/src/buffer.h  
  M sender/src/core.cpp  
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2  
  M src/ScreamClient  
  M src/ScreamServer  
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
  M src/verus.hpp  
  M tools/plot.py  
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



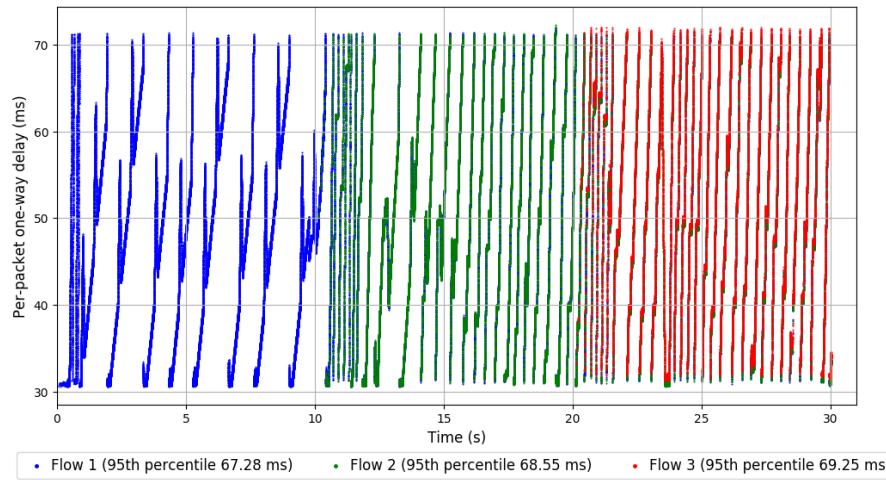
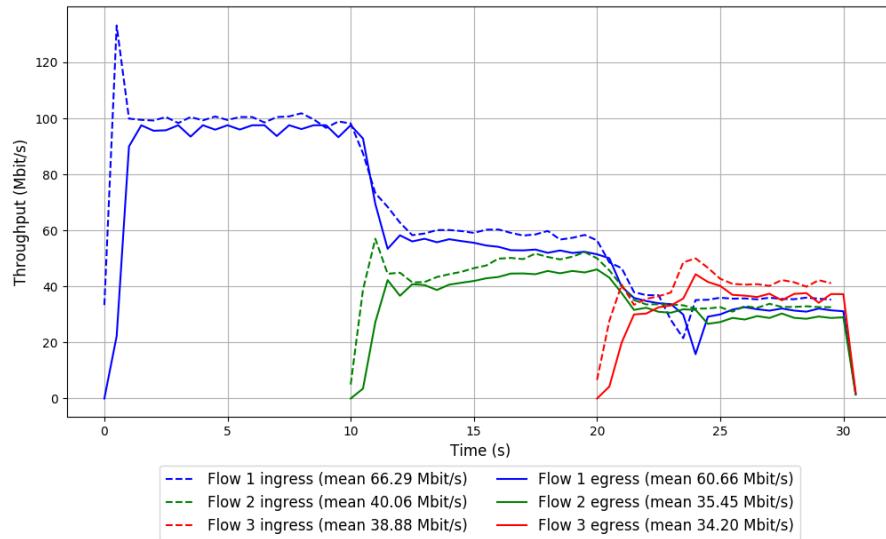
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	63.26	35.75	25.60	67.41	68.66	68.48	8.14	10.83	11.32
Copa		55.15	34.36	19.33	47.82	42.70	40.80	0.58	0.33	0.17
TCP Cubic		65.35	32.36	23.32	67.57	65.60	65.58	0.82	0.73	0.65
FillP		61.17	37.48	24.05	68.51	69.31	69.74	22.43	34.72	41.18
FillP-Sheep		57.00	39.95	35.03	69.97	68.75	68.97	15.86	26.12	32.29
Indigo		63.13	32.33	32.82	41.88	46.09	49.13	0.14	0.27	0.08
LEDBAT		40.17	21.40	19.74	64.62	66.09	55.38	0.15	0.46	0.22
PCC-Allegro		79.33	12.79	10.28	63.28	64.70	65.62	4.10	5.34	6.51
PCC-Expr		66.97	26.14	12.31	61.83	64.84	66.23	1.64	1.51	2.01
QUIC Cubic		63.31	26.97	20.46	67.02	67.48	67.36	1.99	1.30	1.30
SCReAM		0.21	0.22	0.22	30.86	31.15	30.99	0.04	0.00	0.00
Sprout		11.66	11.47	11.23	37.47	37.43	38.07	0.02	0.01	0.00
TaoVA-100x		51.54	38.41	29.86	62.05	65.47	66.90	13.99	24.64	18.73
TCP Vegas		39.54	48.09	24.36	46.90	43.53	40.29	0.76	0.42	0.24
Verus		41.98	25.18	20.45	66.81	66.46	71.47	27.12	30.22	54.96
PCC-Vivace		63.22	26.89	9.78	49.90	50.99	55.02	0.23	0.19	0.29
WebRTC media		2.02	1.37	0.48	32.65	33.39	33.83	0.03	0.03	0.00

Run 1: Statistics of TCP BBR

```
Start at: 2018-07-03 18:37:25
End at: 2018-07-03 18:37:55
Local clock offset: -2.911 ms
Remote clock offset: -1.923 ms

# Below is generated by plot.py at 2018-07-03 22:52:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 67.960 ms
Loss rate: 9.73%
-- Flow 1:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 67.285 ms
Loss rate: 8.48%
-- Flow 2:
Average throughput: 35.45 Mbit/s
95th percentile per-packet one-way delay: 68.552 ms
Loss rate: 11.57%
-- Flow 3:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 69.249 ms
Loss rate: 12.33%
```

Run 1: Report of TCP BBR — Data Link

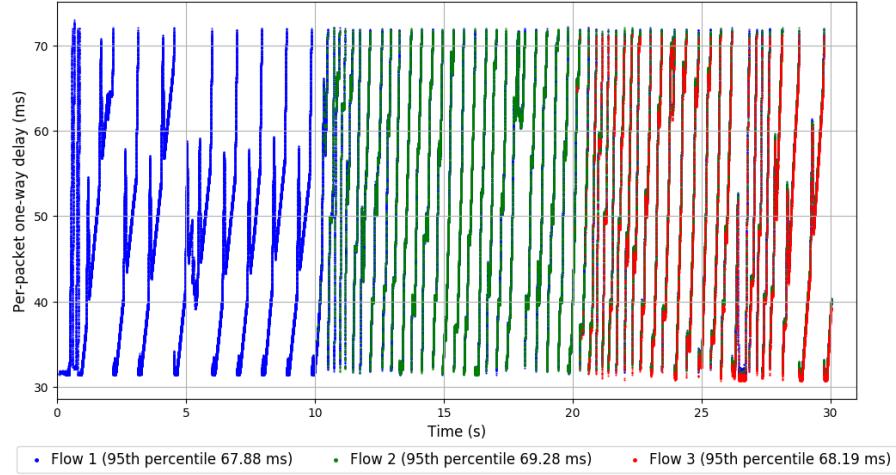
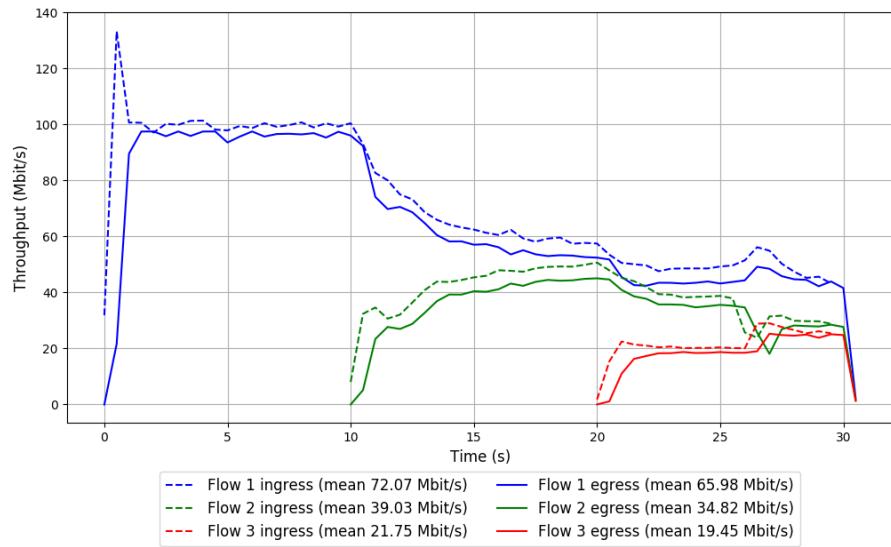


Run 2: Statistics of TCP BBR

```
Start at: 2018-07-03 19:00:10
End at: 2018-07-03 19:00:41
Local clock offset: -2.846 ms
Remote clock offset: -1.519 ms

# Below is generated by plot.py at 2018-07-03 22:52:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.63 Mbit/s
95th percentile per-packet one-way delay: 68.334 ms
Loss rate: 9.16%
-- Flow 1:
Average throughput: 65.98 Mbit/s
95th percentile per-packet one-way delay: 67.875 ms
Loss rate: 8.42%
-- Flow 2:
Average throughput: 34.82 Mbit/s
95th percentile per-packet one-way delay: 69.281 ms
Loss rate: 10.78%
-- Flow 3:
Average throughput: 19.45 Mbit/s
95th percentile per-packet one-way delay: 68.194 ms
Loss rate: 10.69%
```

Run 2: Report of TCP BBR — Data Link

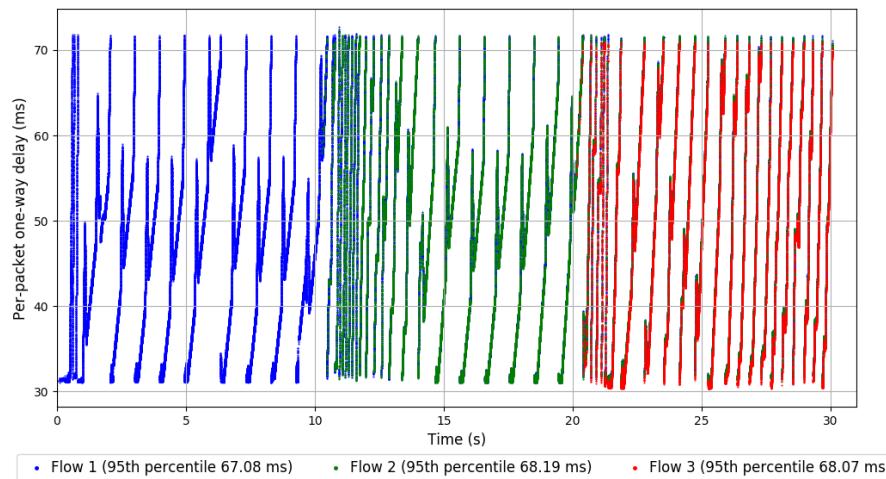
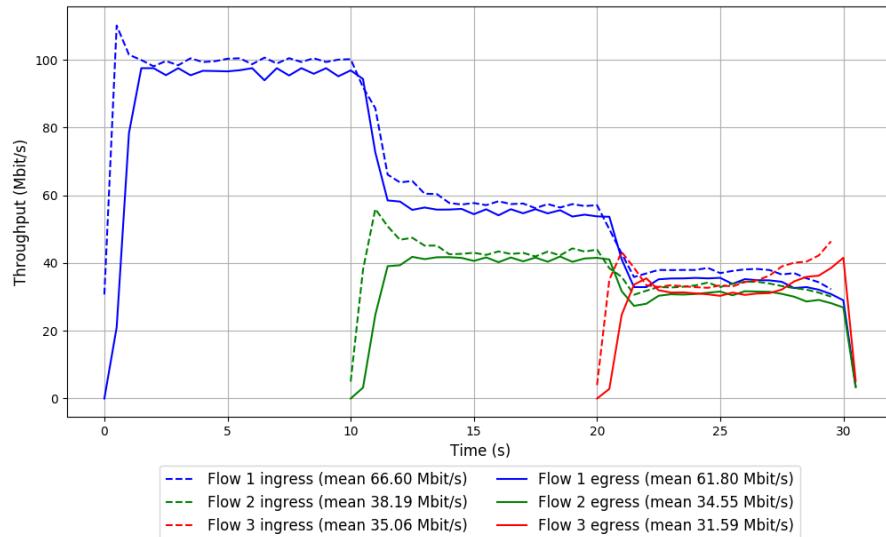


Run 3: Statistics of TCP BBR

```
Start at: 2018-07-03 19:22:55
End at: 2018-07-03 19:23:25
Local clock offset: -2.606 ms
Remote clock offset: 6.545 ms

# Below is generated by plot.py at 2018-07-03 22:52:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 67.552 ms
Loss rate: 7.96%
-- Flow 1:
Average throughput: 61.80 Mbit/s
95th percentile per-packet one-way delay: 67.076 ms
Loss rate: 7.09%
-- Flow 2:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 68.187 ms
Loss rate: 9.42%
-- Flow 3:
Average throughput: 31.59 Mbit/s
95th percentile per-packet one-way delay: 68.070 ms
Loss rate: 9.73%
```

Run 3: Report of TCP BBR — Data Link

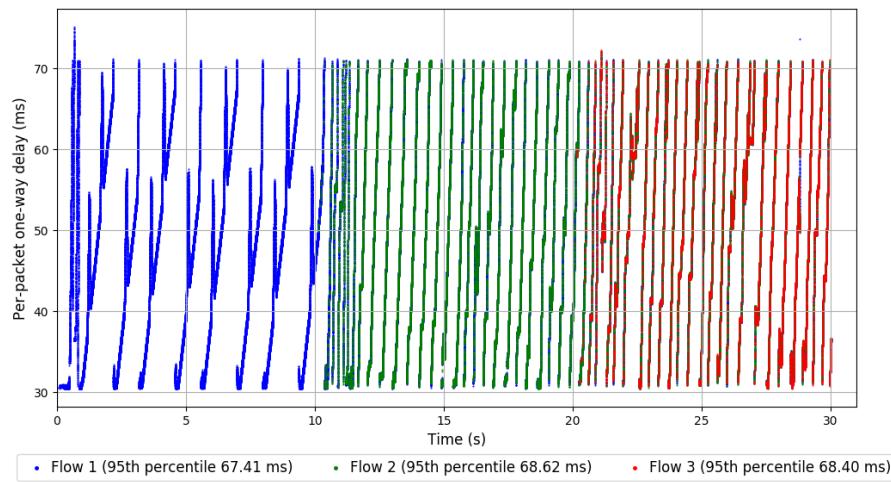
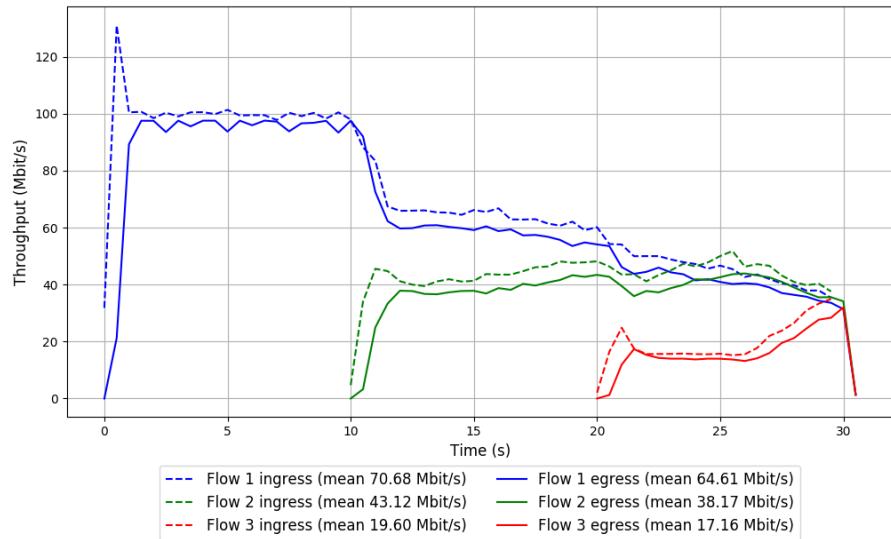


Run 4: Statistics of TCP BBR

```
Start at: 2018-07-03 19:45:43
End at: 2018-07-03 19:46:13
Local clock offset: 0.026 ms
Remote clock offset: 9.596 ms

# Below is generated by plot.py at 2018-07-03 22:52:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 67.894 ms
Loss rate: 9.61%
-- Flow 1:
Average throughput: 64.61 Mbit/s
95th percentile per-packet one-way delay: 67.413 ms
Loss rate: 8.56%
-- Flow 2:
Average throughput: 38.17 Mbit/s
95th percentile per-packet one-way delay: 68.622 ms
Loss rate: 11.54%
-- Flow 3:
Average throughput: 17.16 Mbit/s
95th percentile per-packet one-way delay: 68.396 ms
Loss rate: 12.54%
```

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 5: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 6: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 7: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 8: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 9: Report of TCP BBR — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/bbr_s

Run 10: Report of TCP BBR — Data Link

Figure is missing

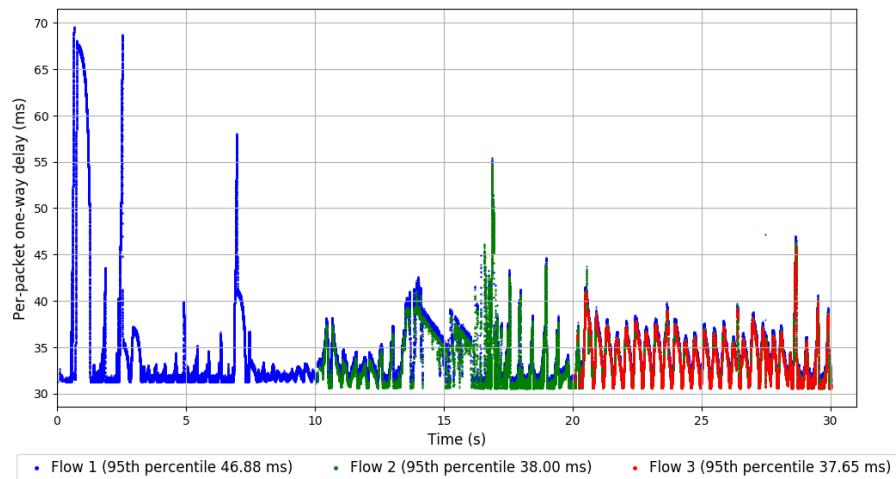
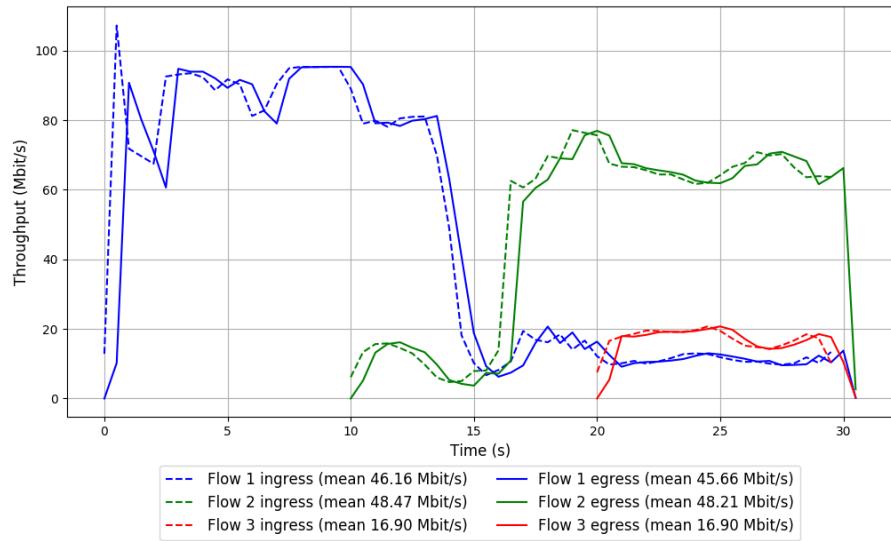
Figure is missing

Run 1: Statistics of Copa

```
Start at: 2018-07-03 18:25:25
End at: 2018-07-03 18:25:55
Local clock offset: -2.728 ms
Remote clock offset: -2.25 ms

# Below is generated by plot.py at 2018-07-03 22:53:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.40 Mbit/s
95th percentile per-packet one-way delay: 40.417 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 45.66 Mbit/s
95th percentile per-packet one-way delay: 46.884 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 48.21 Mbit/s
95th percentile per-packet one-way delay: 38.000 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 16.90 Mbit/s
95th percentile per-packet one-way delay: 37.648 ms
Loss rate: 0.04%
```

Run 1: Report of Copa — Data Link

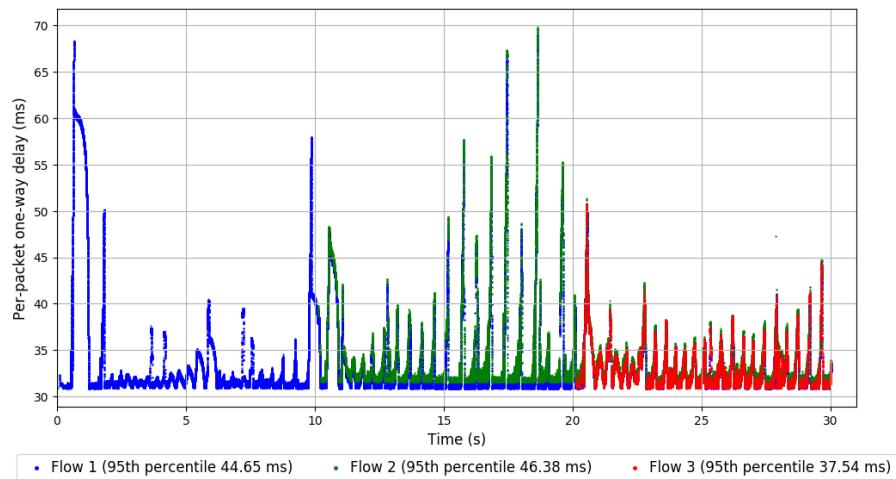
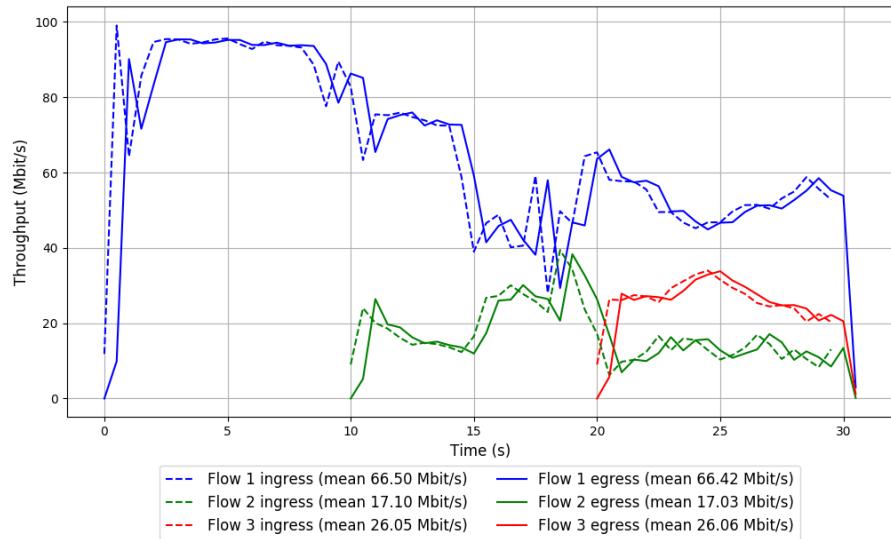


Run 2: Statistics of Copa

```
Start at: 2018-07-03 18:48:12
End at: 2018-07-03 18:48:42
Local clock offset: -2.958 ms
Remote clock offset: -1.609 ms

# Below is generated by plot.py at 2018-07-03 22:53:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 44.401 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 66.42 Mbit/s
95th percentile per-packet one-way delay: 44.651 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 17.03 Mbit/s
95th percentile per-packet one-way delay: 46.381 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 26.06 Mbit/s
95th percentile per-packet one-way delay: 37.544 ms
Loss rate: 0.01%
```

Run 2: Report of Copa — Data Link

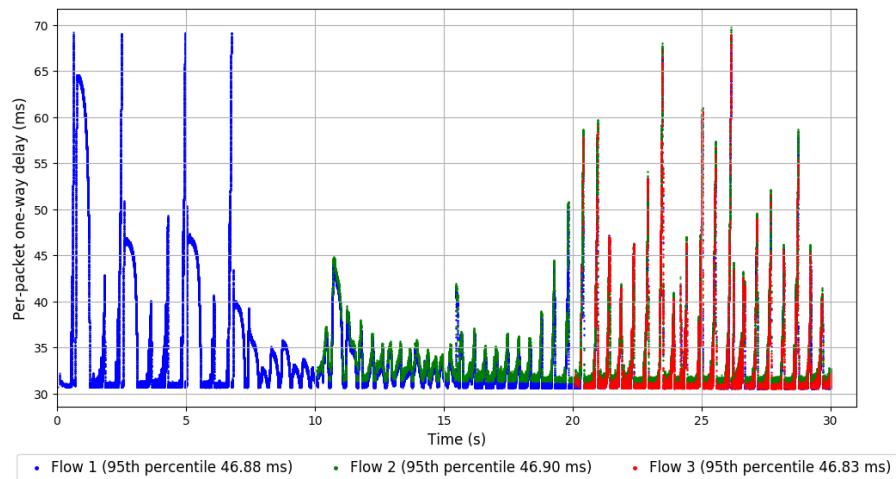
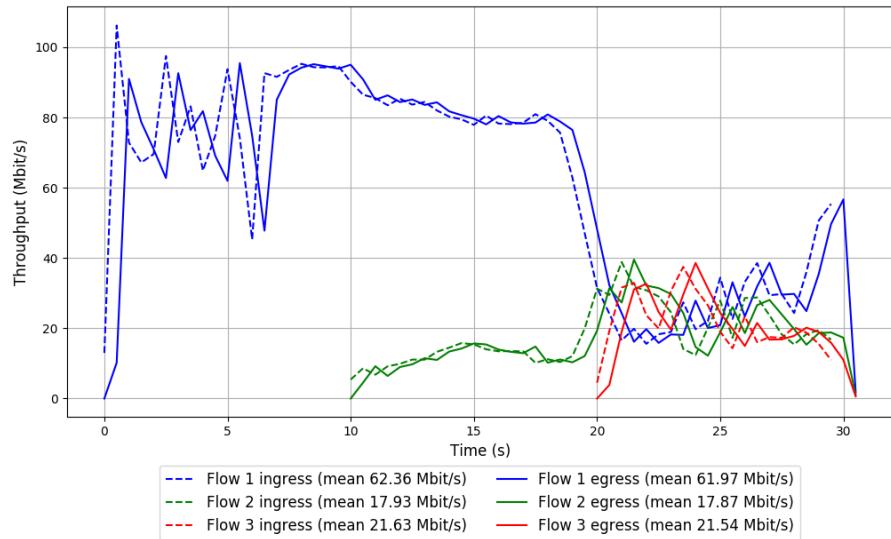


Run 3: Statistics of Copa

```
Start at: 2018-07-03 19:10:56
End at: 2018-07-03 19:11:26
Local clock offset: -2.634 ms
Remote clock offset: 3.944 ms

# Below is generated by plot.py at 2018-07-03 22:53:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.03 Mbit/s
95th percentile per-packet one-way delay: 46.883 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 61.97 Mbit/s
95th percentile per-packet one-way delay: 46.883 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 17.87 Mbit/s
95th percentile per-packet one-way delay: 46.903 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 21.54 Mbit/s
95th percentile per-packet one-way delay: 46.830 ms
Loss rate: 0.42%
```

Run 3: Report of Copa — Data Link

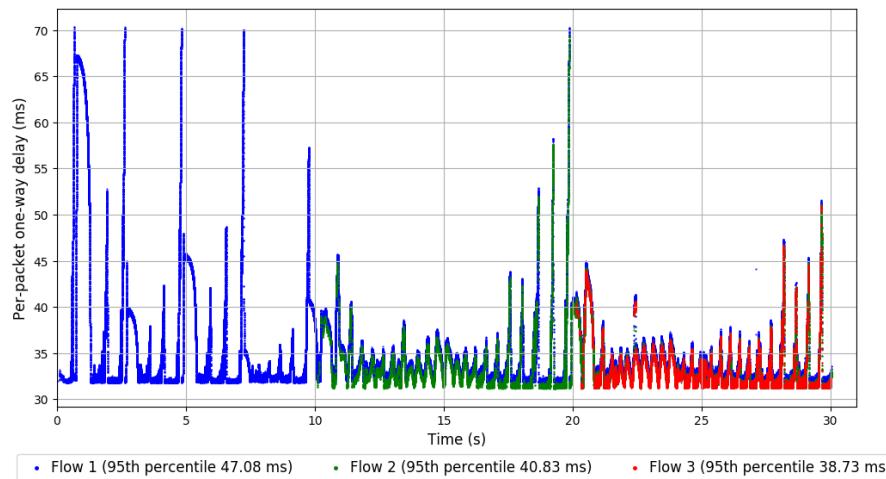
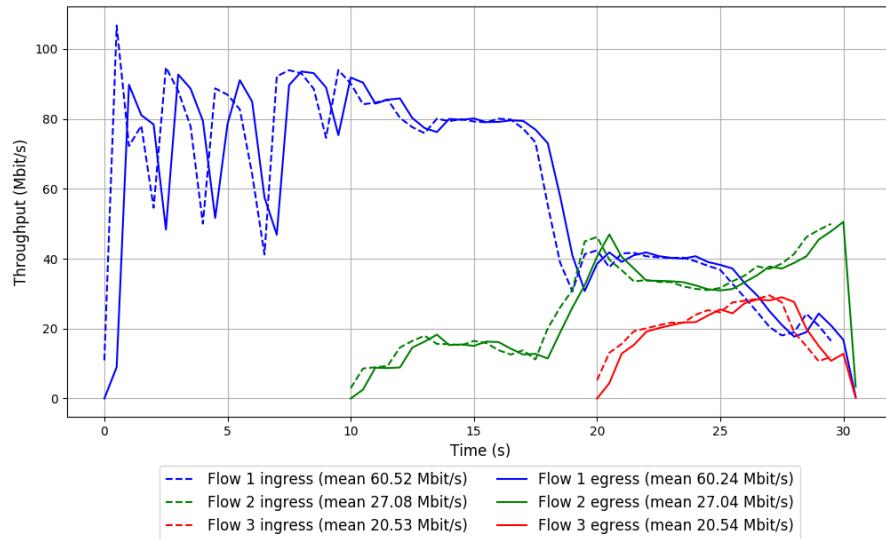


Run 4: Statistics of Copa

```
Start at: 2018-07-03 19:33:42
End at: 2018-07-03 19:34:12
Local clock offset: -2.407 ms
Remote clock offset: 8.753 ms

# Below is generated by plot.py at 2018-07-03 22:53:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 45.255 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 60.24 Mbit/s
95th percentile per-packet one-way delay: 47.075 ms
Loss rate: 0.46%
-- Flow 2:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 40.829 ms
Loss rate: 0.14%
-- Flow 3:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 38.733 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

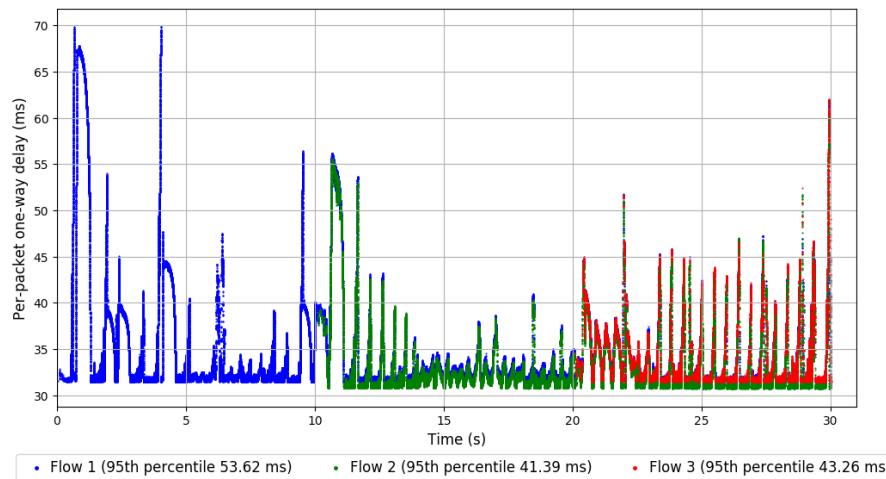
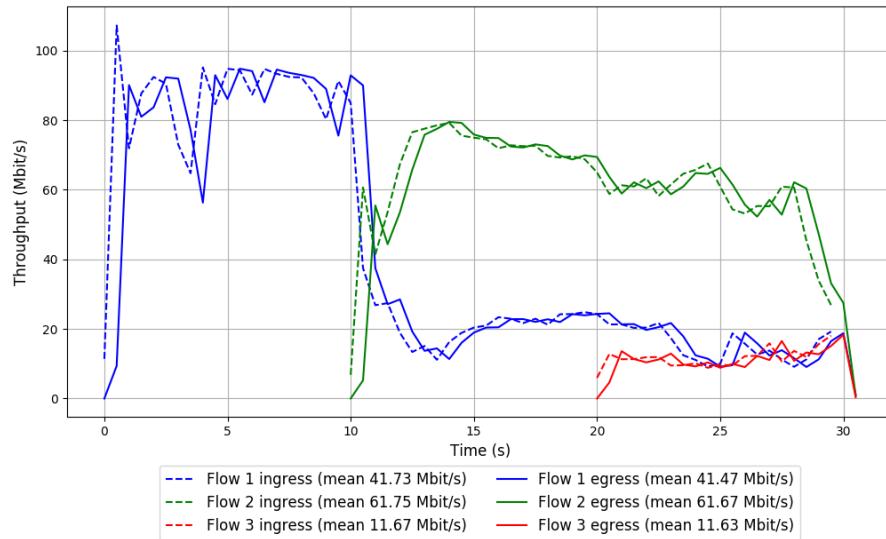


Run 5: Statistics of Copa

```
Start at: 2018-07-03 19:56:31
End at: 2018-07-03 19:57:01
Local clock offset: 0.864 ms
Remote clock offset: 11.375 ms

# Below is generated by plot.py at 2018-07-03 22:54:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.40 Mbit/s
95th percentile per-packet one-way delay: 45.255 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 41.47 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 61.67 Mbit/s
95th percentile per-packet one-way delay: 41.393 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 43.257 ms
Loss rate: 0.38%
```

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa_

Run 6: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa_

Run 7: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa_

Run 8: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa_

Run 9: Report of Copa — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Copa

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/copa_

Run 10: Report of Copa — Data Link

Figure is missing

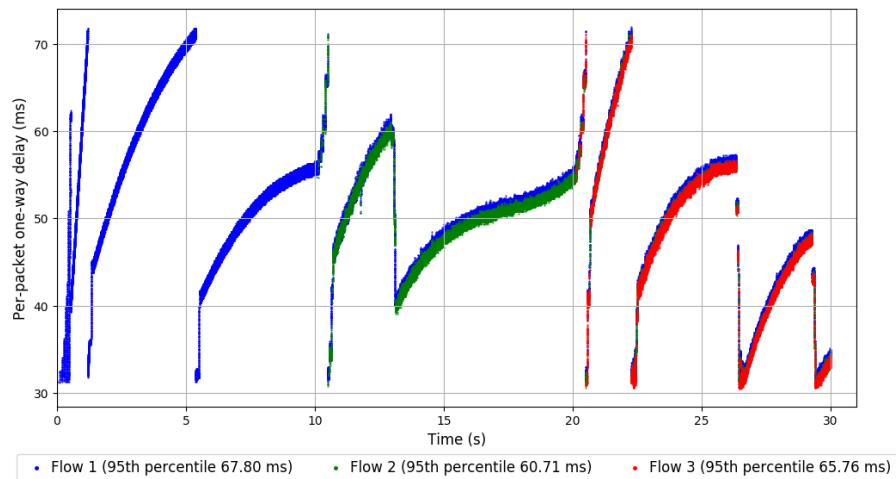
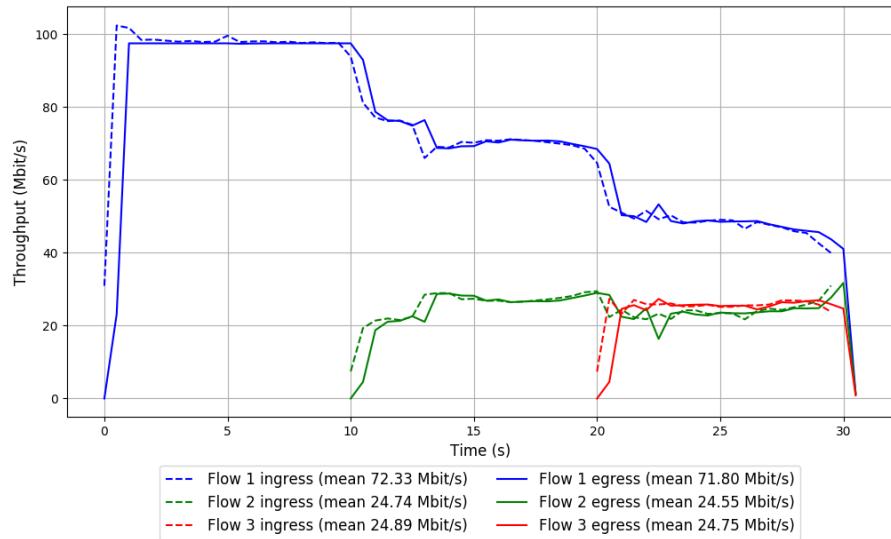
Figure is missing

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

```
Start at: 2018-07-03 18:21:25
End at: 2018-07-03 18:21:55
Local clock offset: -2.5 ms
Remote clock offset: -2.272 ms

# Below is generated by plot.py at 2018-07-03 22:54:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 67.066 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 71.80 Mbit/s
95th percentile per-packet one-way delay: 67.802 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 24.55 Mbit/s
95th percentile per-packet one-way delay: 60.708 ms
Loss rate: 0.89%
-- Flow 3:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 65.764 ms
Loss rate: 0.75%
```

Run 1: Report of TCP Cubic — Data Link

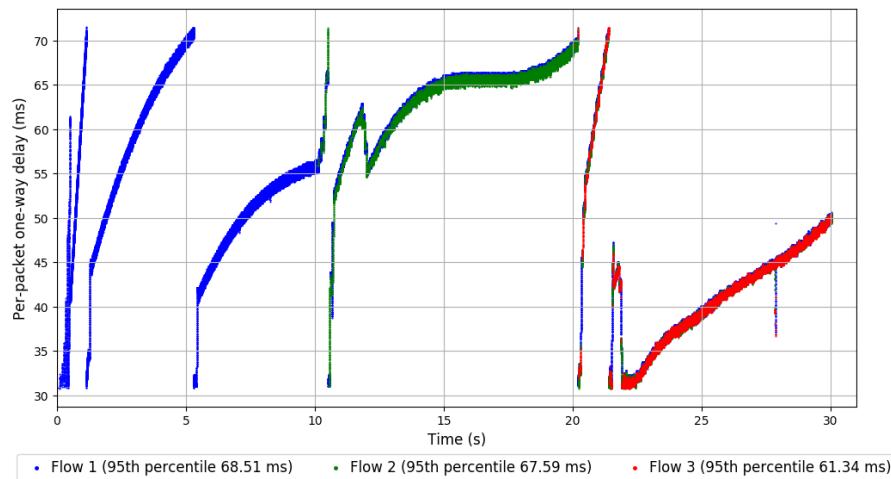
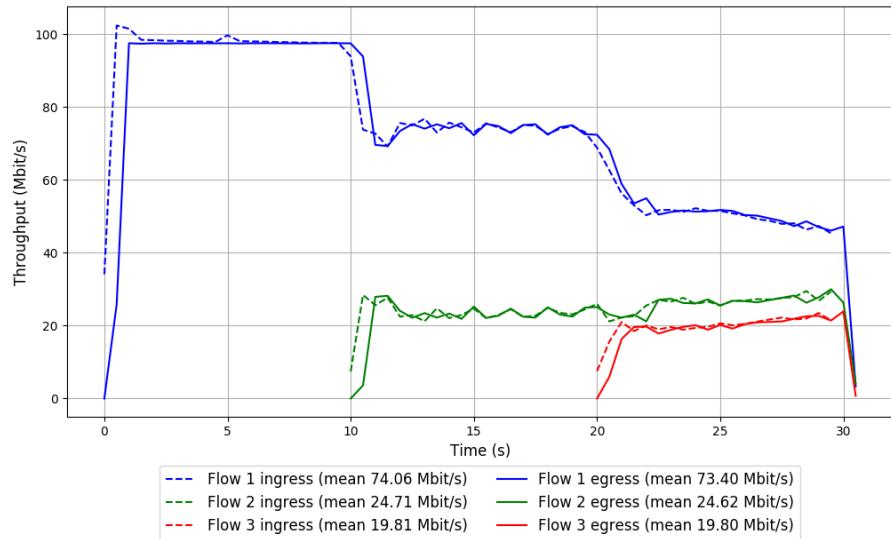


Run 2: Statistics of TCP Cubic

```
Start at: 2018-07-03 18:44:12
End at: 2018-07-03 18:44:42
Local clock offset: -2.86 ms
Remote clock offset: -1.671 ms

# Below is generated by plot.py at 2018-07-03 22:54:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.34 Mbit/s
95th percentile per-packet one-way delay: 68.252 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 73.40 Mbit/s
95th percentile per-packet one-way delay: 68.506 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 67.586 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 19.80 Mbit/s
95th percentile per-packet one-way delay: 61.342 ms
Loss rate: 0.24%
```

Run 2: Report of TCP Cubic — Data Link

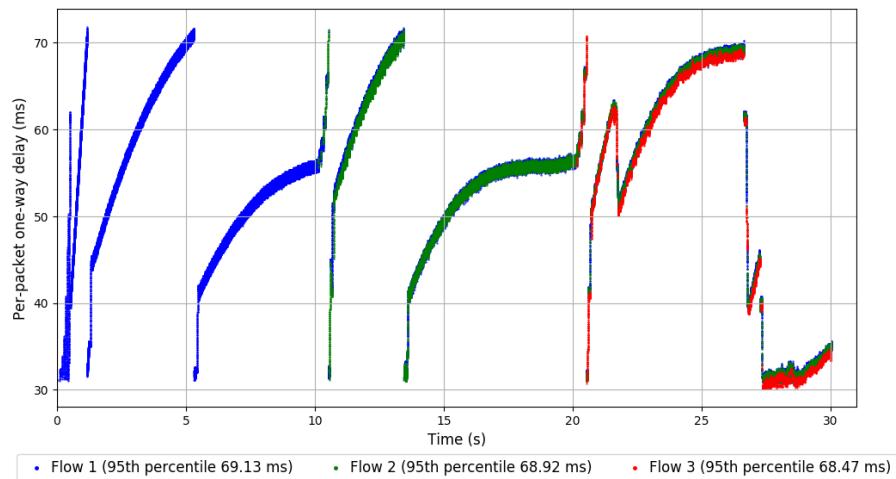
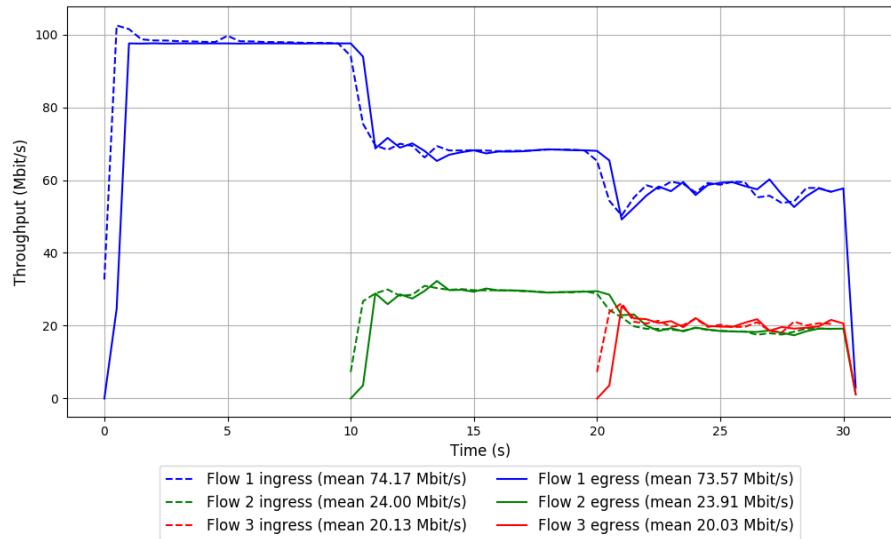


Run 3: Statistics of TCP Cubic

```
Start at: 2018-07-03 19:06:56
End at: 2018-07-03 19:07:26
Local clock offset: -2.696 ms
Remote clock offset: 1.794 ms

# Below is generated by plot.py at 2018-07-03 22:54:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 68.975 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 73.57 Mbit/s
95th percentile per-packet one-way delay: 69.129 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 23.91 Mbit/s
95th percentile per-packet one-way delay: 68.925 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 20.03 Mbit/s
95th percentile per-packet one-way delay: 68.468 ms
Loss rate: 0.71%
```

Run 3: Report of TCP Cubic — Data Link

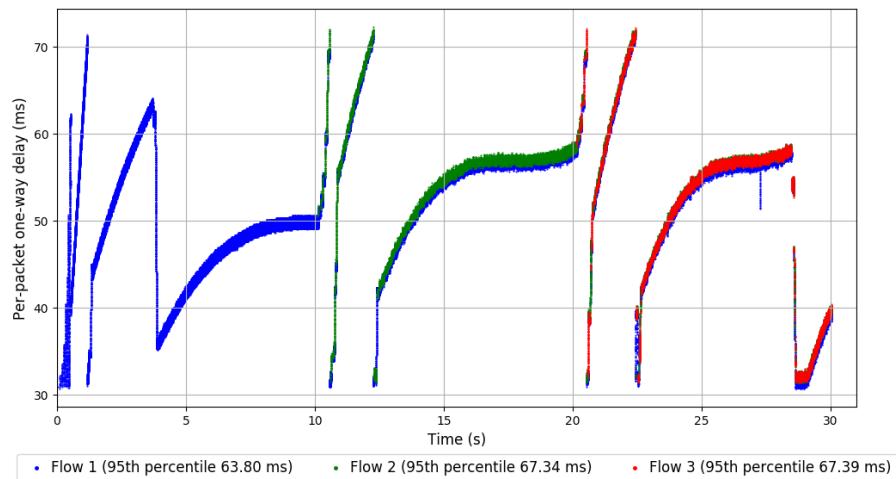
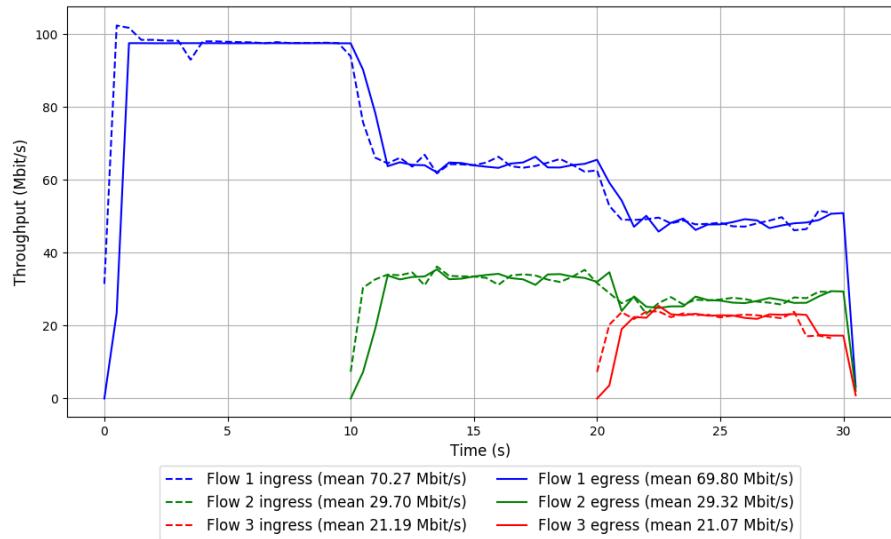


Run 4: Statistics of TCP Cubic

```
Start at: 2018-07-03 19:29:41
End at: 2018-07-03 19:30:11
Local clock offset: -2.598 ms
Remote clock offset: 7.939 ms

# Below is generated by plot.py at 2018-07-03 22:54:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.30 Mbit/s
95th percentile per-packet one-way delay: 65.237 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 69.80 Mbit/s
95th percentile per-packet one-way delay: 63.803 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 29.32 Mbit/s
95th percentile per-packet one-way delay: 67.342 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 21.07 Mbit/s
95th percentile per-packet one-way delay: 67.387 ms
Loss rate: 0.76%
```

Run 4: Report of TCP Cubic — Data Link

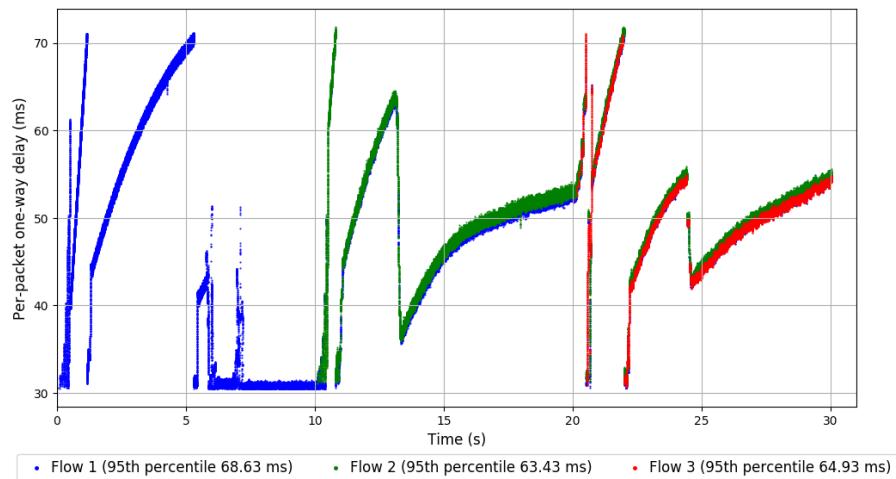
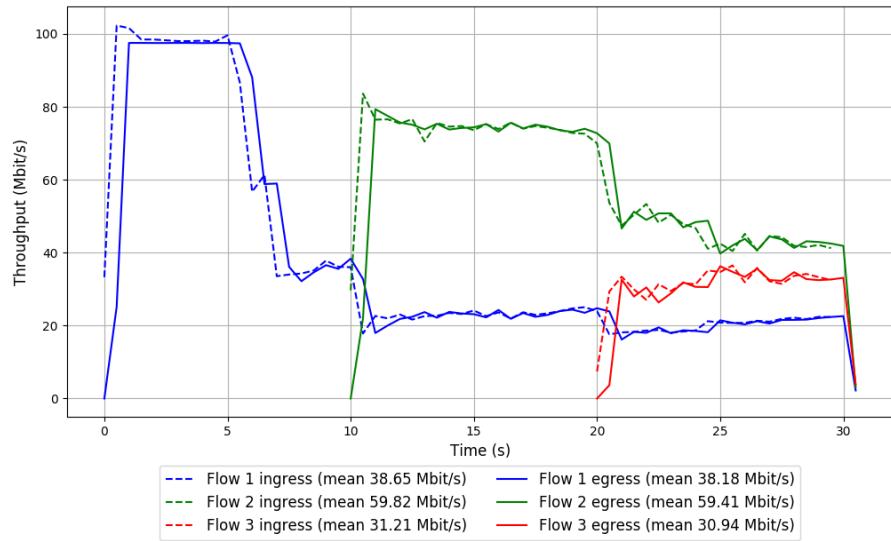


Run 5: Statistics of TCP Cubic

```
Start at: 2018-07-03 19:52:30
End at: 2018-07-03 19:53:00
Local clock offset: 0.63 ms
Remote clock offset: 10.525 ms

# Below is generated by plot.py at 2018-07-03 22:54:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 67.229 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 38.18 Mbit/s
95th percentile per-packet one-way delay: 68.631 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 63.431 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 64.930 ms
Loss rate: 0.81%
```

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 6: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 7: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 8: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 9: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/cubic

Run 10: Report of TCP Cubic — Data Link

Figure is missing

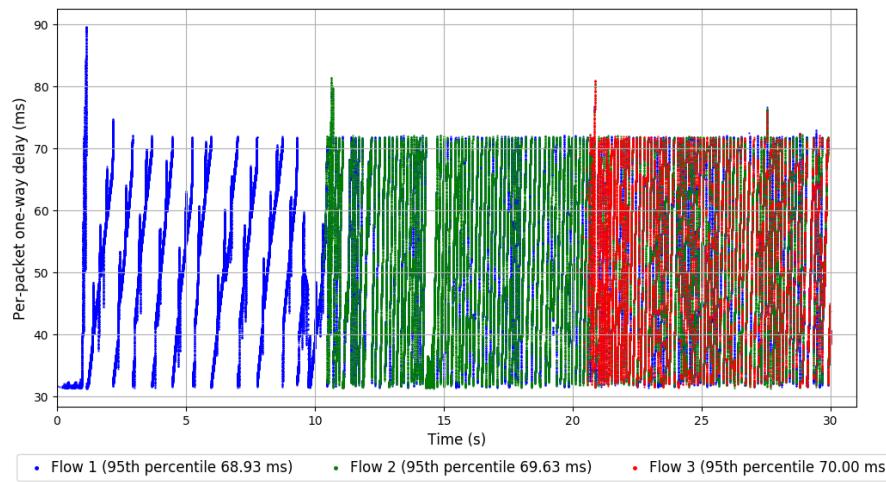
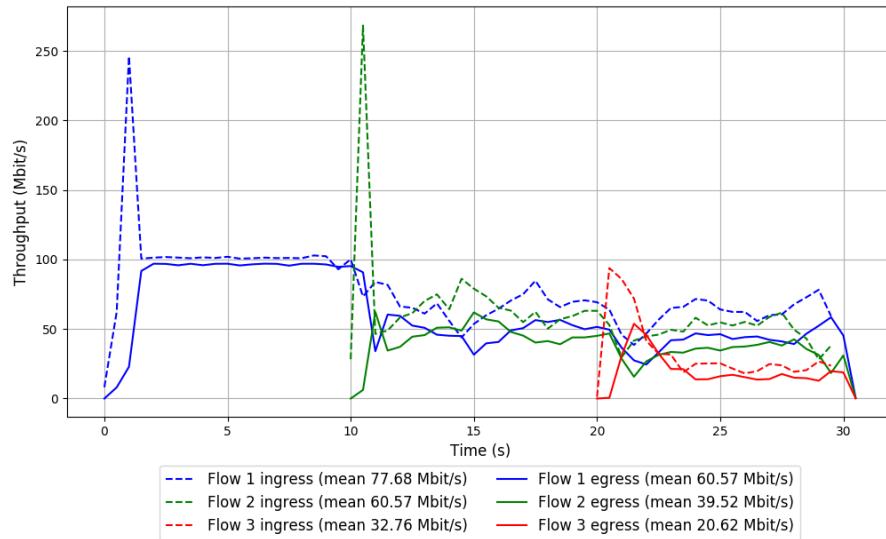
Figure is missing

```
Run 1: Statistics of FillP
```

```
Start at: 2018-07-03 18:32:05
End at: 2018-07-03 18:32:35
Local clock offset: -3.03 ms
Remote clock offset: -1.879 ms

# Below is generated by plot.py at 2018-07-03 22:54:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 69.220 ms
Loss rate: 27.27%
-- Flow 1:
Average throughput: 60.57 Mbit/s
95th percentile per-packet one-way delay: 68.929 ms
Loss rate: 22.00%
-- Flow 2:
Average throughput: 39.52 Mbit/s
95th percentile per-packet one-way delay: 69.630 ms
Loss rate: 34.75%
-- Flow 3:
Average throughput: 20.62 Mbit/s
95th percentile per-packet one-way delay: 70.005 ms
Loss rate: 37.25%
```

Run 1: Report of FillP — Data Link

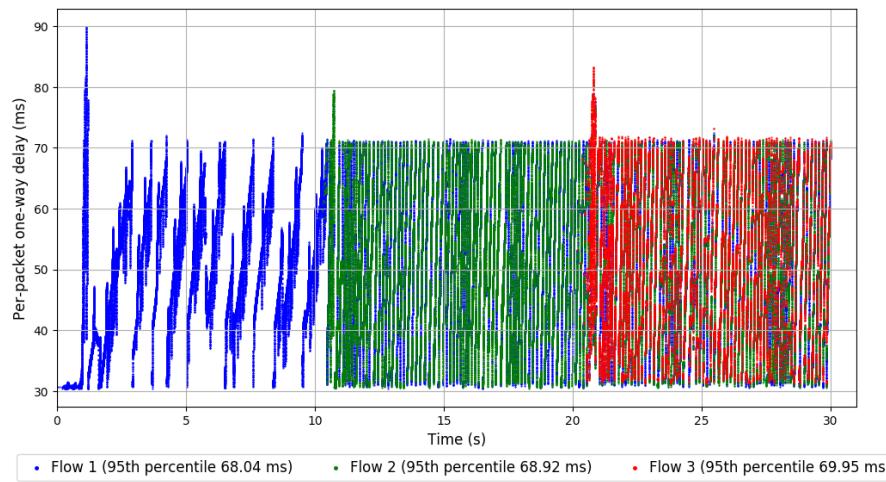
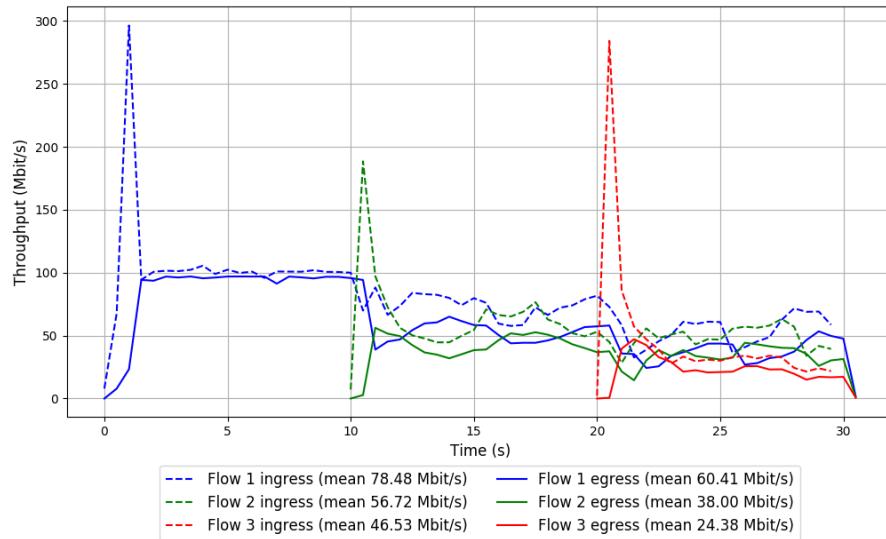


Run 2: Statistics of FillP

```
Start at: 2018-07-03 18:54:51
End at: 2018-07-03 18:55:21
Local clock offset: -2.838 ms
Remote clock offset: -1.634 ms

# Below is generated by plot.py at 2018-07-03 22:54:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 68.563 ms
Loss rate: 28.74%
-- Flow 1:
Average throughput: 60.41 Mbit/s
95th percentile per-packet one-way delay: 68.037 ms
Loss rate: 22.97%
-- Flow 2:
Average throughput: 38.00 Mbit/s
95th percentile per-packet one-way delay: 68.917 ms
Loss rate: 32.97%
-- Flow 3:
Average throughput: 24.38 Mbit/s
95th percentile per-packet one-way delay: 69.954 ms
Loss rate: 47.70%
```

Run 2: Report of FillP — Data Link

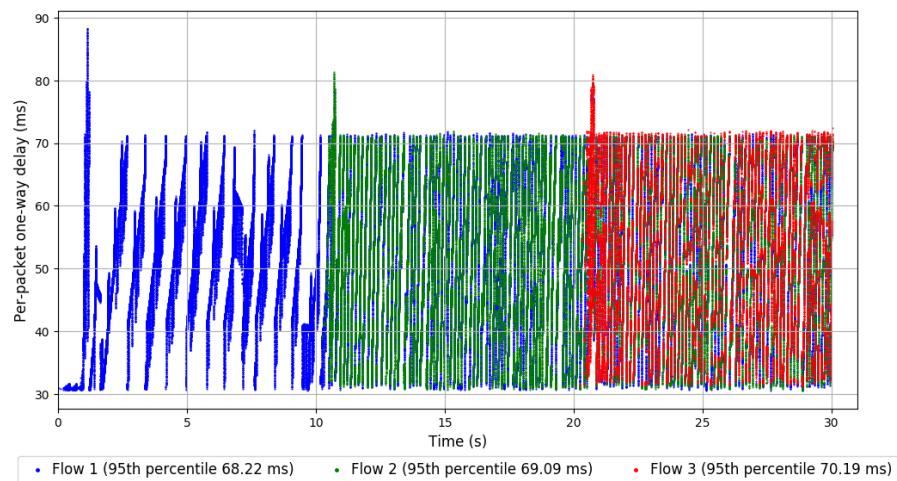
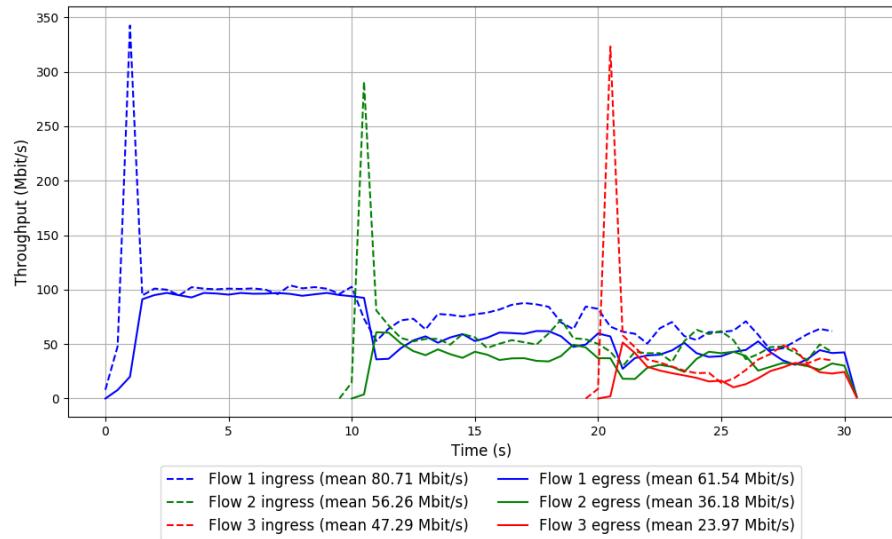


Run 3: Statistics of FillP

```
Start at: 2018-07-03 19:17:36
End at: 2018-07-03 19:18:06
Local clock offset: -2.637 ms
Remote clock offset: 5.943 ms

# Below is generated by plot.py at 2018-07-03 22:55:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 68.701 ms
Loss rate: 30.00%
-- Flow 1:
Average throughput: 61.54 Mbit/s
95th percentile per-packet one-way delay: 68.219 ms
Loss rate: 23.64%
-- Flow 2:
Average throughput: 36.18 Mbit/s
95th percentile per-packet one-way delay: 69.088 ms
Loss rate: 35.62%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 70.193 ms
Loss rate: 49.26%
```

Run 3: Report of FillP — Data Link

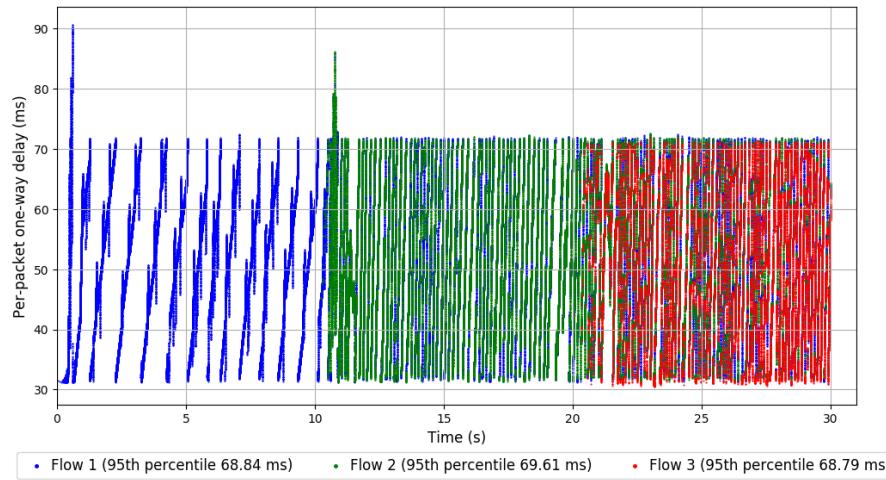
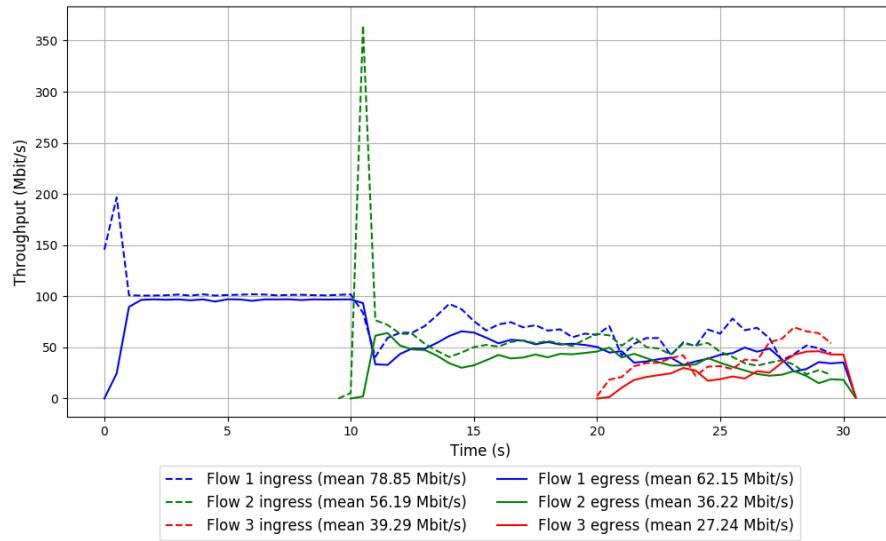


Run 4: Statistics of FillP

```
Start at: 2018-07-03 19:40:23
End at: 2018-07-03 19:40:53
Local clock offset: -0.676 ms
Remote clock offset: 9.221 ms

# Below is generated by plot.py at 2018-07-03 22:55:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 69.041 ms
Loss rate: 26.23%
-- Flow 1:
Average throughput: 62.15 Mbit/s
95th percentile per-packet one-way delay: 68.841 ms
Loss rate: 21.10%
-- Flow 2:
Average throughput: 36.22 Mbit/s
95th percentile per-packet one-way delay: 69.611 ms
Loss rate: 35.53%
-- Flow 3:
Average throughput: 27.24 Mbit/s
95th percentile per-packet one-way delay: 68.793 ms
Loss rate: 30.52%
```

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 5: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 6: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 7: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 8: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 9: Report of FillP — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 10: Report of FillP — Data Link

Figure is missing

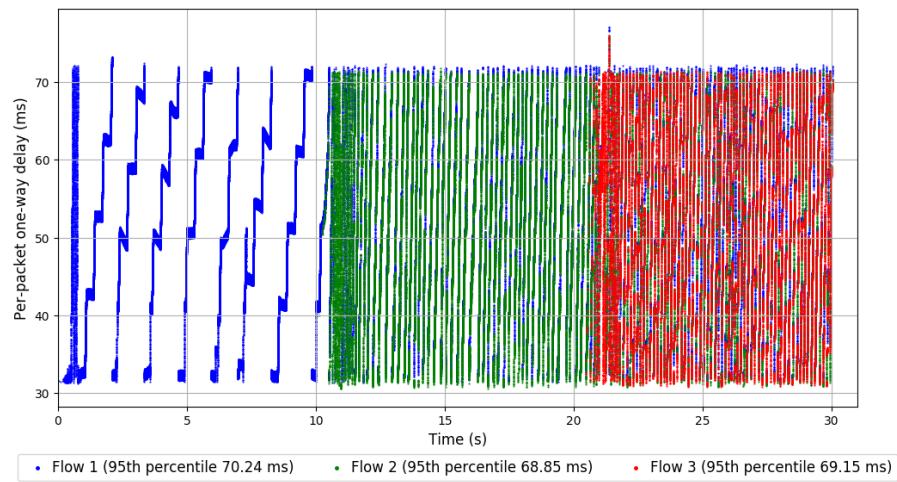
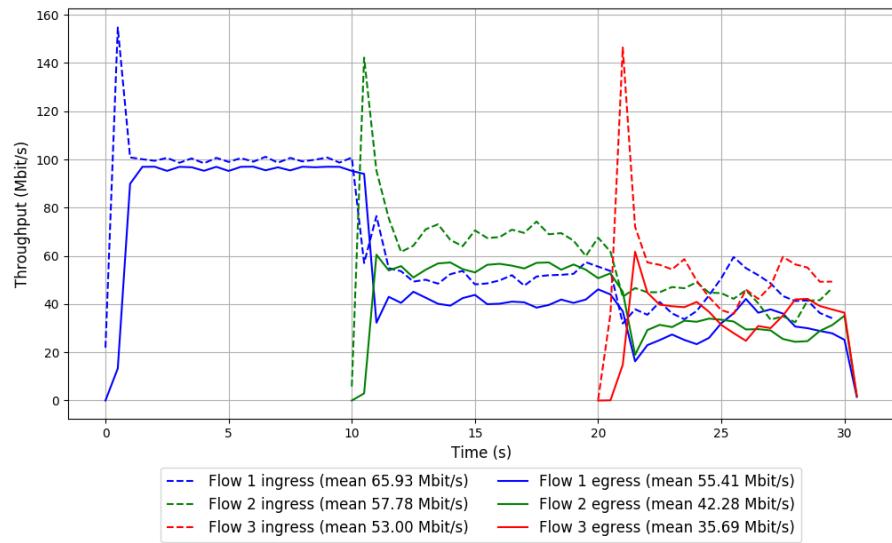
Figure is missing

Run 1: Statistics of FillP-Sheep

```
Start at: 2018-07-03 18:40:10
End at: 2018-07-03 18:40:40
Local clock offset: -2.974 ms
Remote clock offset: -1.811 ms

# Below is generated by plot.py at 2018-07-03 22:55:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.16 Mbit/s
95th percentile per-packet one-way delay: 69.558 ms
Loss rate: 21.88%
-- Flow 1:
Average throughput: 55.41 Mbit/s
95th percentile per-packet one-way delay: 70.236 ms
Loss rate: 15.86%
-- Flow 2:
Average throughput: 42.28 Mbit/s
95th percentile per-packet one-way delay: 68.850 ms
Loss rate: 26.75%
-- Flow 3:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 69.153 ms
Loss rate: 33.84%
```

Run 1: Report of FillP-Sheep — Data Link

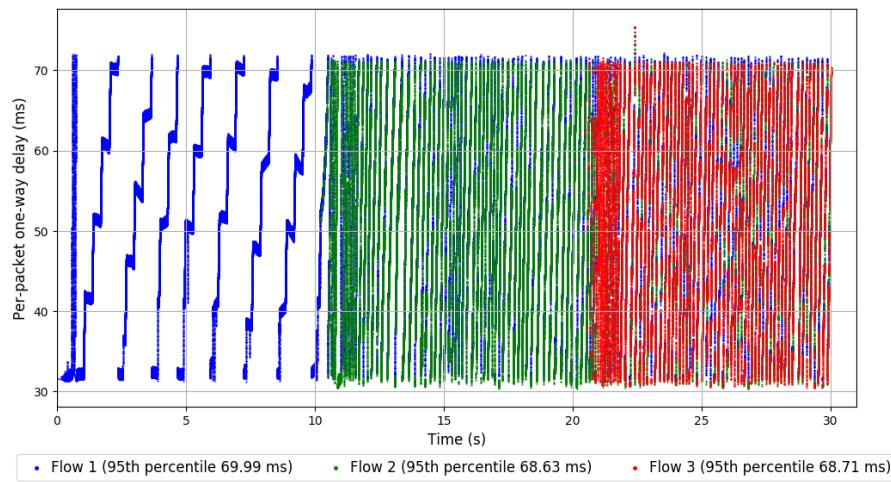
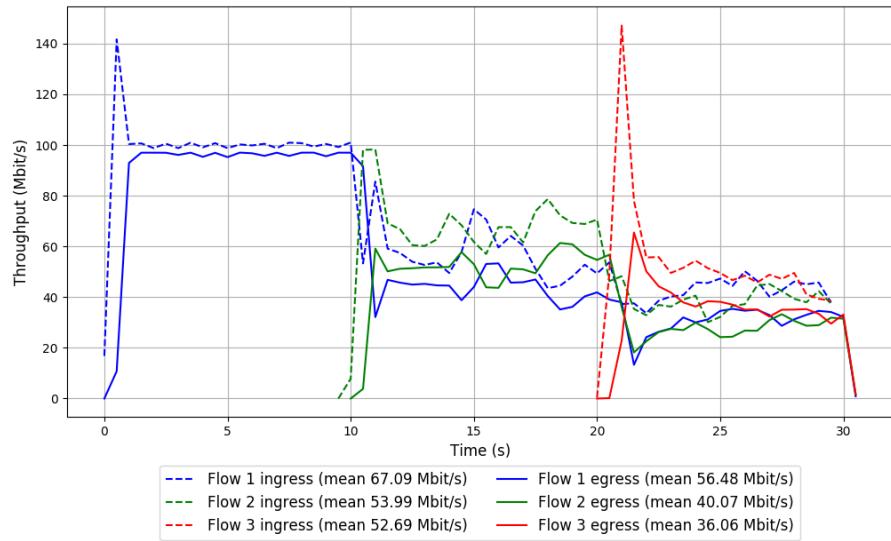


Run 2: Statistics of FillP-Sheep

```
Start at: 2018-07-03 19:02:55
End at: 2018-07-03 19:03:25
Local clock offset: -2.816 ms
Remote clock offset: -0.345 ms

# Below is generated by plot.py at 2018-07-03 22:55:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 69.737 ms
Loss rate: 20.98%
-- Flow 1:
Average throughput: 56.48 Mbit/s
95th percentile per-packet one-way delay: 69.988 ms
Loss rate: 15.73%
-- Flow 2:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 68.629 ms
Loss rate: 25.64%
-- Flow 3:
Average throughput: 36.06 Mbit/s
95th percentile per-packet one-way delay: 68.712 ms
Loss rate: 31.49%
```

Run 2: Report of FillP-Sheep — Data Link

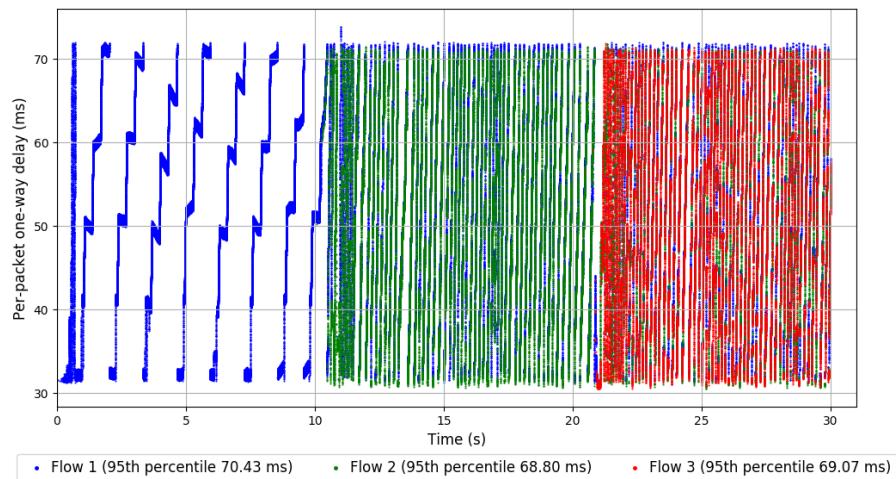
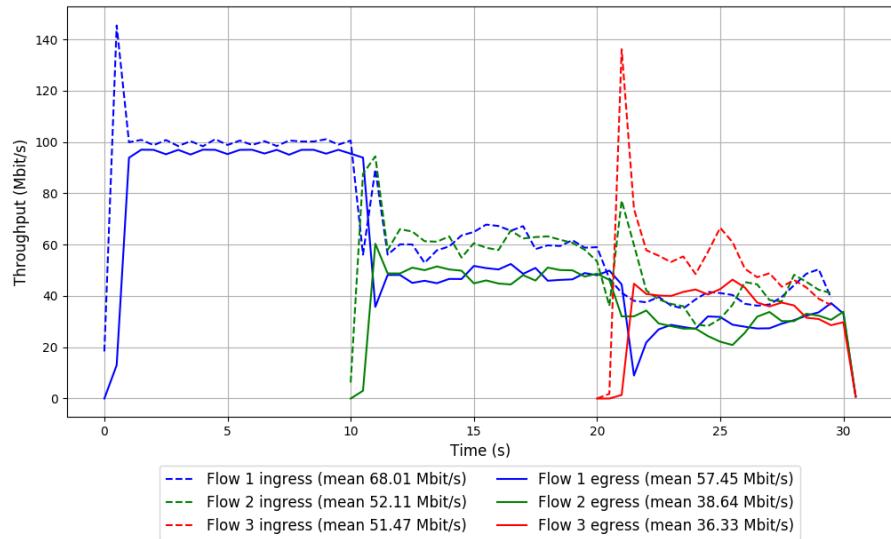


Run 3: Statistics of FillP-Sheep

```
Start at: 2018-07-03 19:25:40
End at: 2018-07-03 19:26:10
Local clock offset: -2.519 ms
Remote clock offset: 7.434 ms

# Below is generated by plot.py at 2018-07-03 22:55:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 69.996 ms
Loss rate: 20.85%
-- Flow 1:
Average throughput: 57.45 Mbit/s
95th percentile per-packet one-way delay: 70.426 ms
Loss rate: 15.46%
-- Flow 2:
Average throughput: 38.64 Mbit/s
95th percentile per-packet one-way delay: 68.801 ms
Loss rate: 25.81%
-- Flow 3:
Average throughput: 36.33 Mbit/s
95th percentile per-packet one-way delay: 69.070 ms
Loss rate: 32.26%
```

Run 3: Report of FillP-Sheep — Data Link

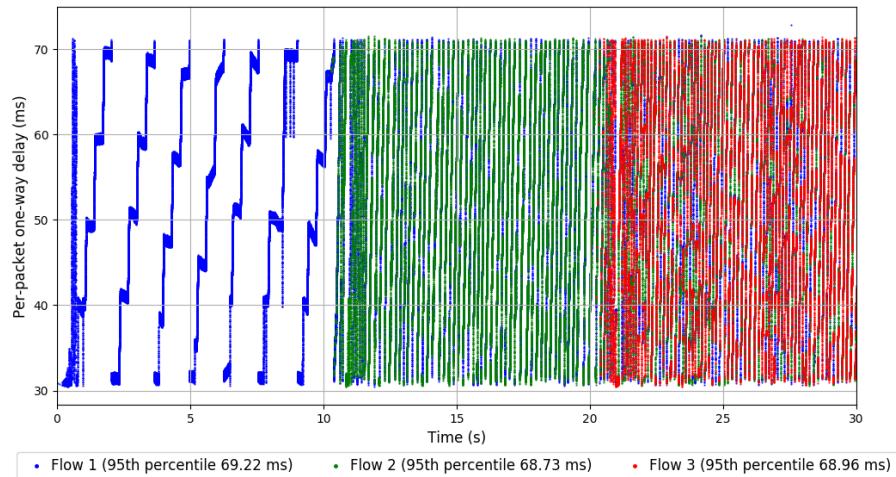
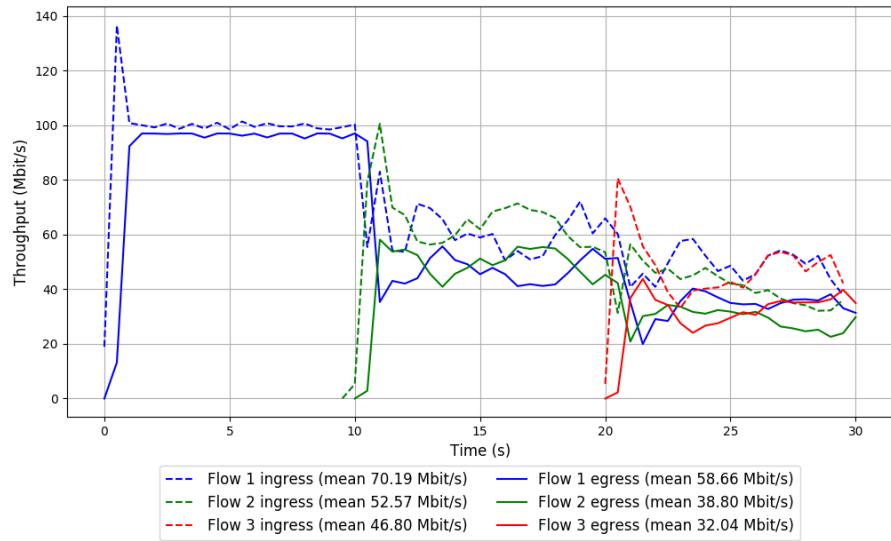


Run 4: Statistics of FillP-Sheep

```
Start at: 2018-07-03 19:48:28
End at: 2018-07-03 19:48:58
Local clock offset: 0.326 ms
Remote clock offset: 10.213 ms

# Below is generated by plot.py at 2018-07-03 22:55:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 69.138 ms
Loss rate: 21.22%
-- Flow 1:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 69.218 ms
Loss rate: 16.40%
-- Flow 2:
Average throughput: 38.80 Mbit/s
95th percentile per-packet one-way delay: 68.727 ms
Loss rate: 26.27%
-- Flow 3:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 68.962 ms
Loss rate: 31.57%
```

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 5: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 6: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 7: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 8: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 9: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/fillp

Run 10: Report of FillP-Sheep — Data Link

Figure is missing

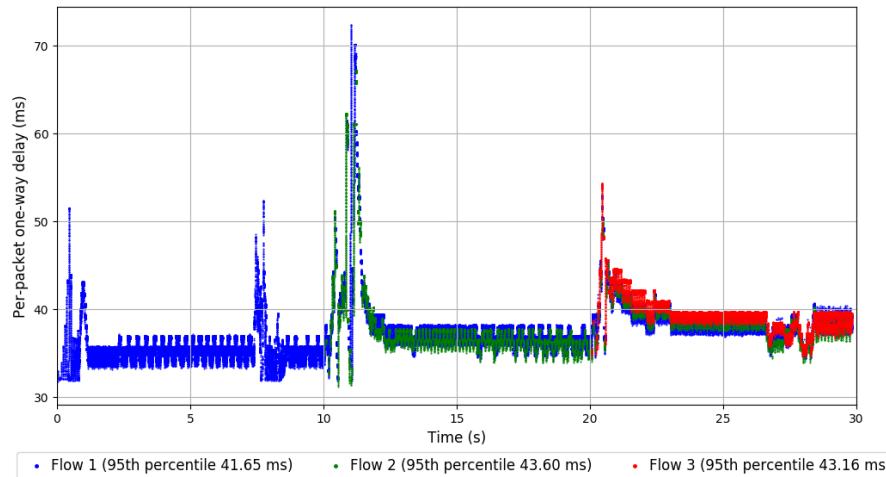
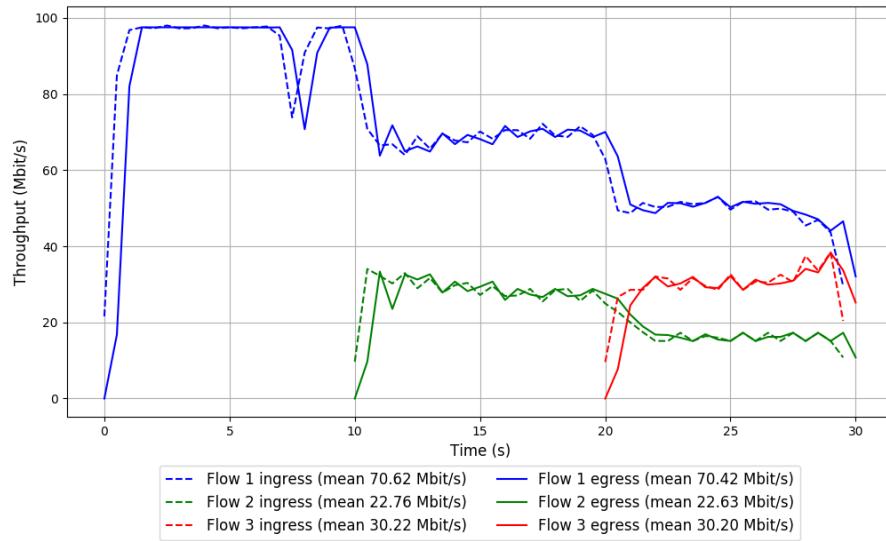
Figure is missing

Run 1: Statistics of Indigo

```
Start at: 2018-07-03 18:34:43
End at: 2018-07-03 18:35:13
Local clock offset: -3.107 ms
Remote clock offset: -1.538 ms

# Below is generated by plot.py at 2018-07-03 22:55:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 42.380 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 70.42 Mbit/s
95th percentile per-packet one-way delay: 41.651 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 43.601 ms
Loss rate: 0.56%
-- Flow 3:
Average throughput: 30.20 Mbit/s
95th percentile per-packet one-way delay: 43.157 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

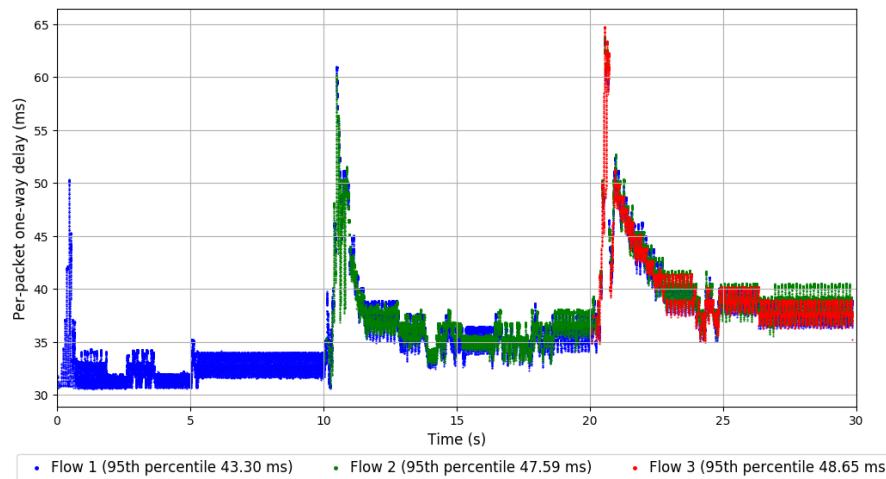
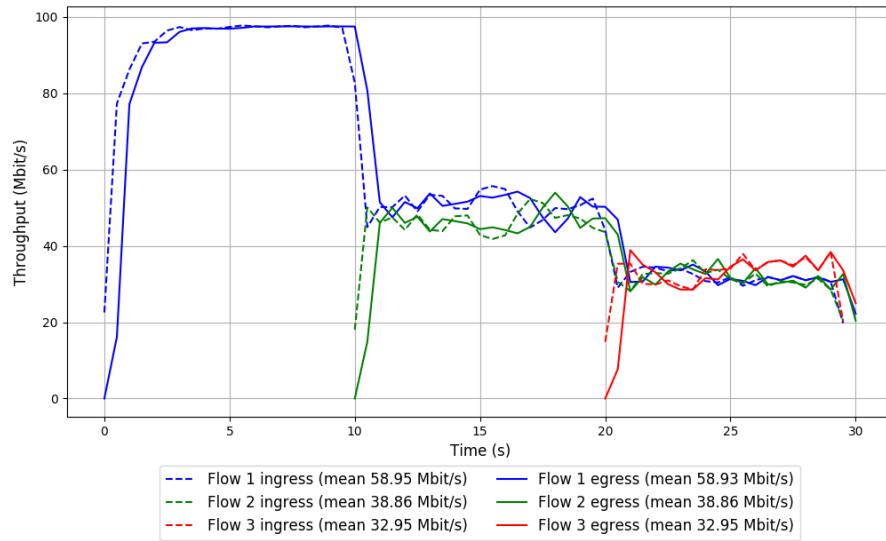


Run 2: Statistics of Indigo

```
Start at: 2018-07-03 18:57:30
End at: 2018-07-03 18:58:00
Local clock offset: -2.915 ms
Remote clock offset: -1.714 ms

# Below is generated by plot.py at 2018-07-03 22:55:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.50 Mbit/s
95th percentile per-packet one-way delay: 45.463 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 58.93 Mbit/s
95th percentile per-packet one-way delay: 43.303 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 47.593 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.95 Mbit/s
95th percentile per-packet one-way delay: 48.650 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link

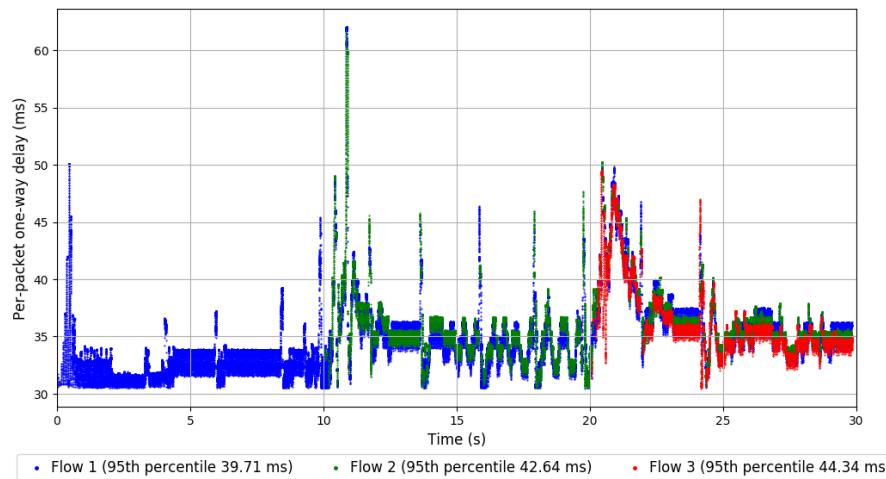
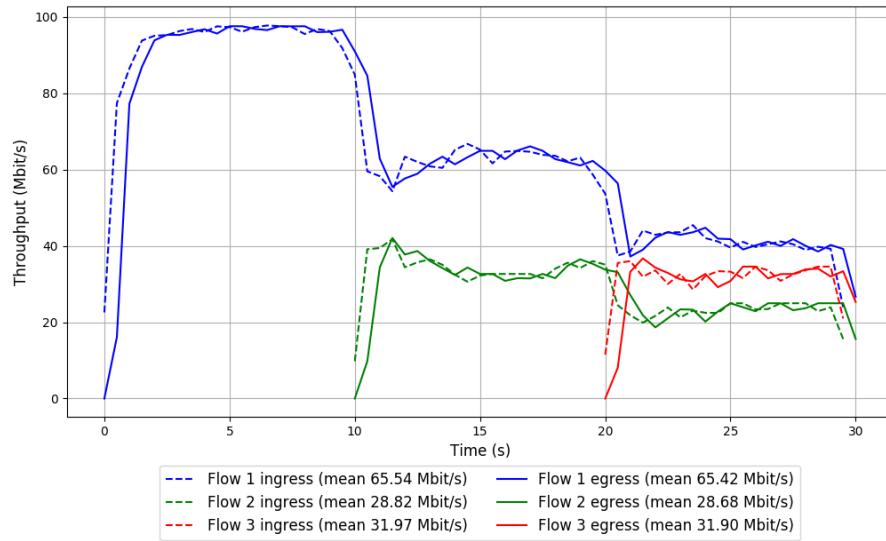


Run 3: Statistics of Indigo

```
Start at: 2018-07-03 19:20:14
End at: 2018-07-03 19:20:44
Local clock offset: -2.534 ms
Remote clock offset: 6.286 ms

# Below is generated by plot.py at 2018-07-03 22:56:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 41.325 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 65.42 Mbit/s
95th percentile per-packet one-way delay: 39.710 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 28.68 Mbit/s
95th percentile per-packet one-way delay: 42.636 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 31.90 Mbit/s
95th percentile per-packet one-way delay: 44.343 ms
Loss rate: 0.18%
```

Run 3: Report of Indigo — Data Link

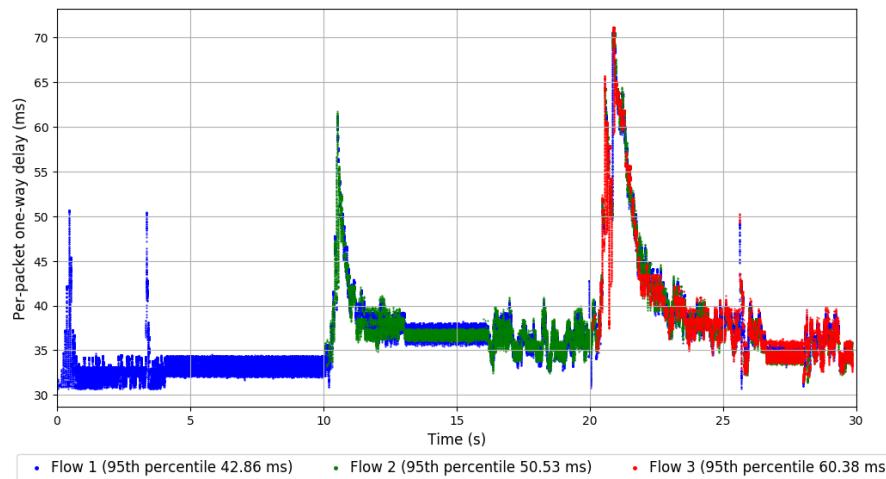
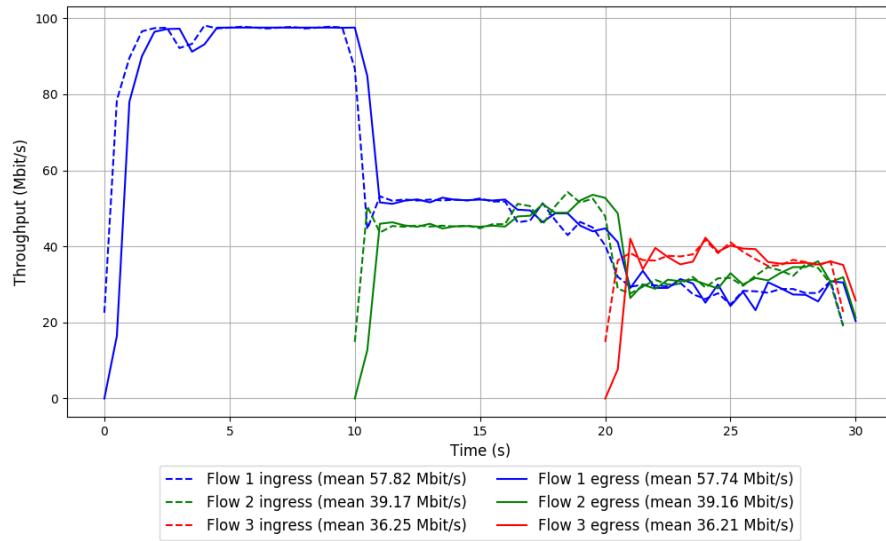


Run 4: Statistics of Indigo

```
Start at: 2018-07-03 19:43:02
End at: 2018-07-03 19:43:32
Local clock offset: -0.266 ms
Remote clock offset: 9.625 ms

# Below is generated by plot.py at 2018-07-03 22:56:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 48.150 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 57.74 Mbit/s
95th percentile per-packet one-way delay: 42.860 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 39.16 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 36.21 Mbit/s
95th percentile per-packet one-way delay: 60.379 ms
Loss rate: 0.13%
```

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 5: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 6: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 7: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 8: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 9: Report of Indigo — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Indigo

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/indig

Run 10: Report of Indigo — Data Link

Figure is missing

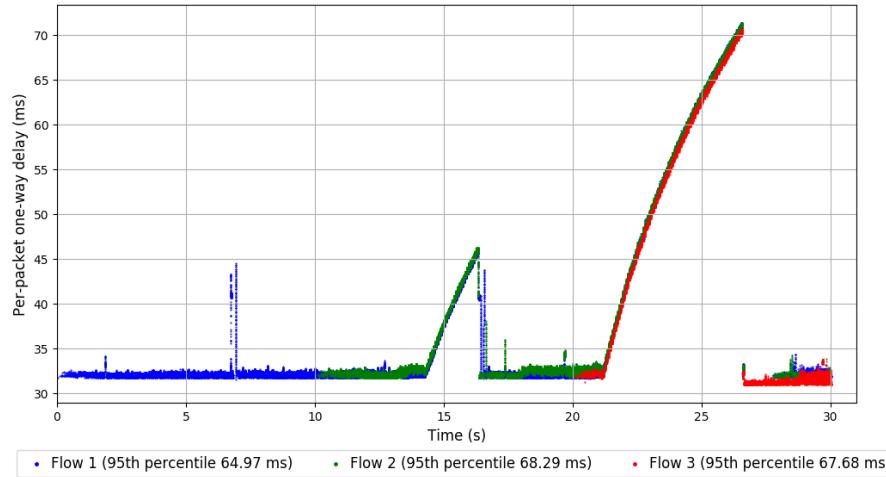
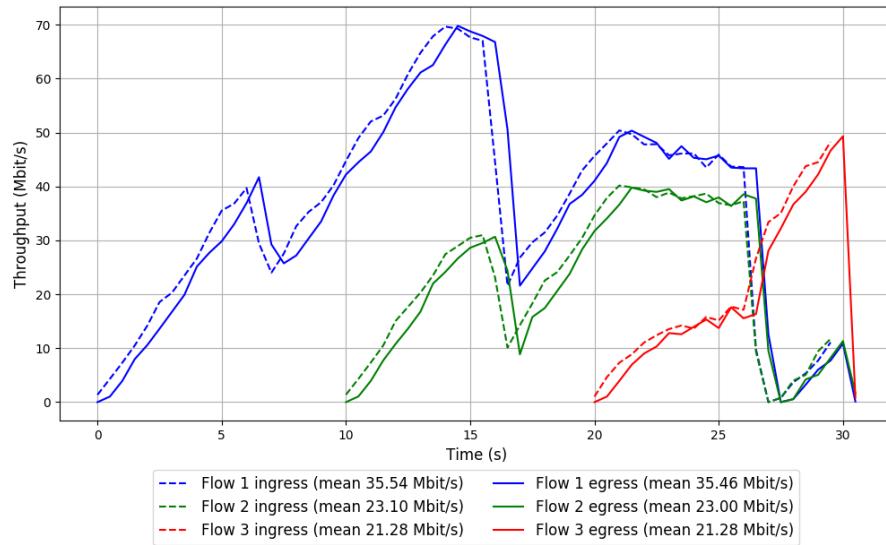
Figure is missing

Run 1: Statistics of LEDBAT

```
Start at: 2018-07-03 18:26:48
End at: 2018-07-03 18:27:18
Local clock offset: -2.81 ms
Remote clock offset: -1.768 ms

# Below is generated by plot.py at 2018-07-03 22:56:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.85 Mbit/s
95th percentile per-packet one-way delay: 66.671 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 35.46 Mbit/s
95th percentile per-packet one-way delay: 64.972 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 68.292 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 21.28 Mbit/s
95th percentile per-packet one-way delay: 67.682 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

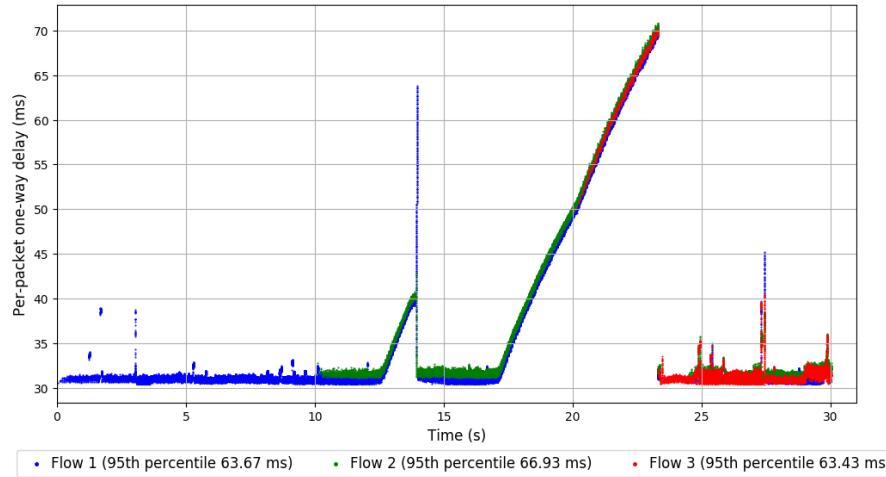
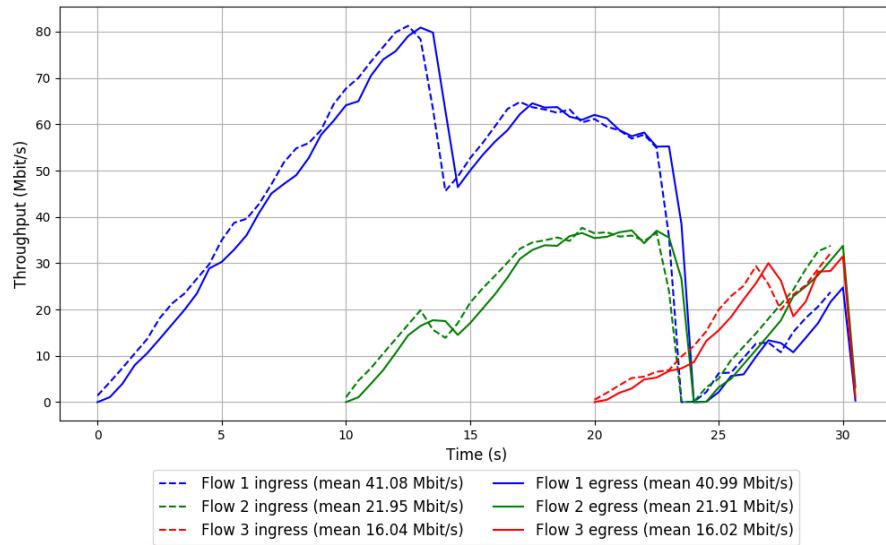


Run 2: Statistics of LEDBAT

```
Start at: 2018-07-03 18:49:35
End at: 2018-07-03 18:50:05
Local clock offset: -2.942 ms
Remote clock offset: -1.958 ms

# Below is generated by plot.py at 2018-07-03 22:56:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 64.779 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 66.930 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 16.02 Mbit/s
95th percentile per-packet one-way delay: 63.429 ms
Loss rate: 0.29%
```

Run 2: Report of LEDBAT — Data Link

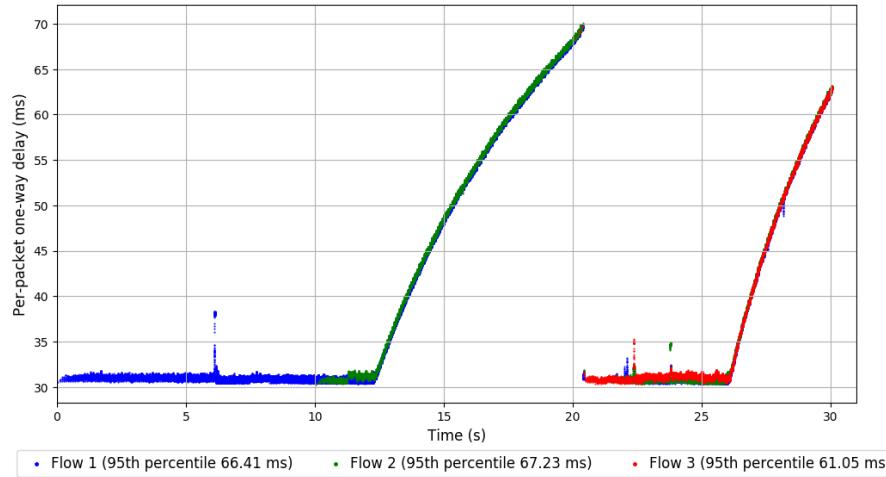
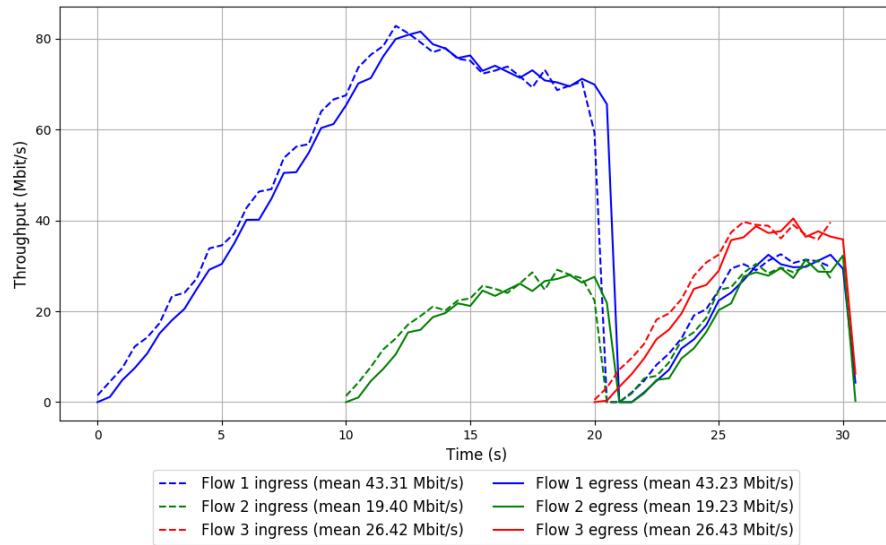


Run 3: Statistics of LEDBAT

```
Start at: 2018-07-03 19:12:19
End at: 2018-07-03 19:12:49
Local clock offset: -2.601 ms
Remote clock offset: 4.153 ms

# Below is generated by plot.py at 2018-07-03 22:56:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.80 Mbit/s
95th percentile per-packet one-way delay: 66.211 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 43.23 Mbit/s
95th percentile per-packet one-way delay: 66.410 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 19.23 Mbit/s
95th percentile per-packet one-way delay: 67.234 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 61.051 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

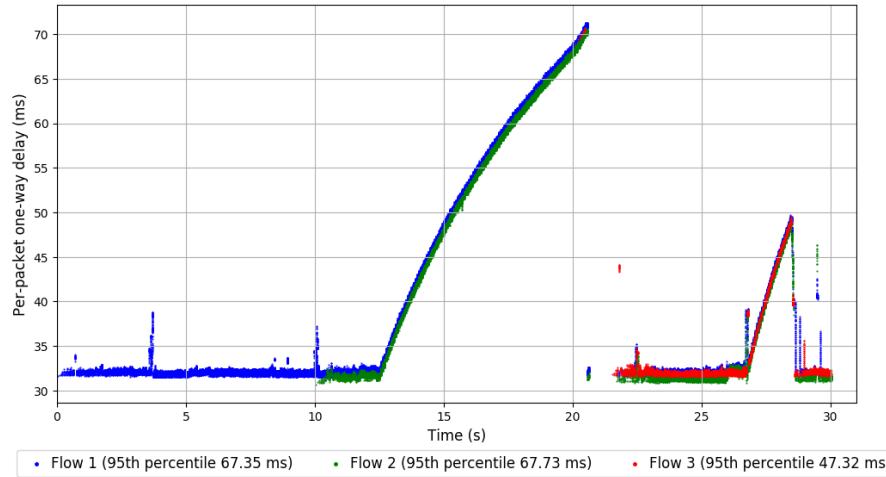
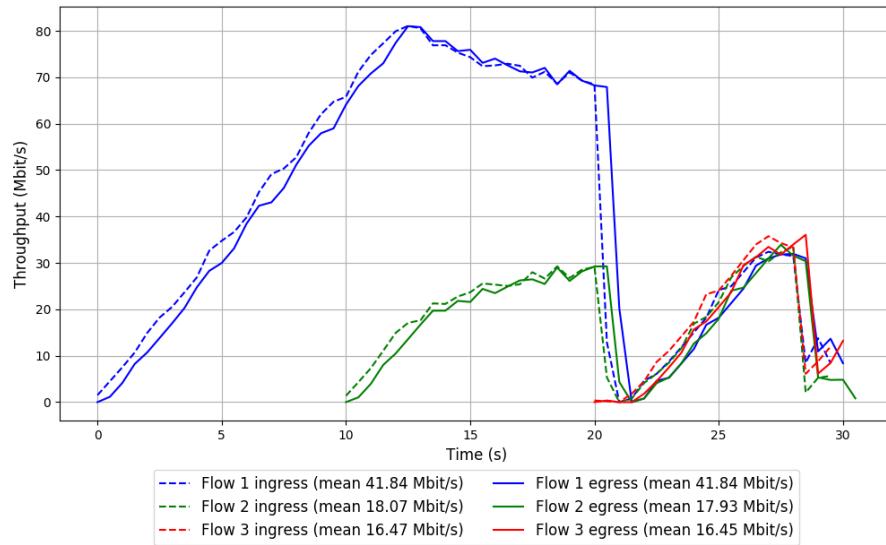


Run 4: Statistics of LEDBAT

```
Start at: 2018-07-03 19:35:06
End at: 2018-07-03 19:35:36
Local clock offset: -2.029 ms
Remote clock offset: 8.537 ms

# Below is generated by plot.py at 2018-07-03 22:56:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.15 Mbit/s
95th percentile per-packet one-way delay: 67.194 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 41.84 Mbit/s
95th percentile per-packet one-way delay: 67.349 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 67.729 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 16.45 Mbit/s
95th percentile per-packet one-way delay: 47.319 ms
Loss rate: 0.47%
```

Run 4: Report of LEDBAT — Data Link

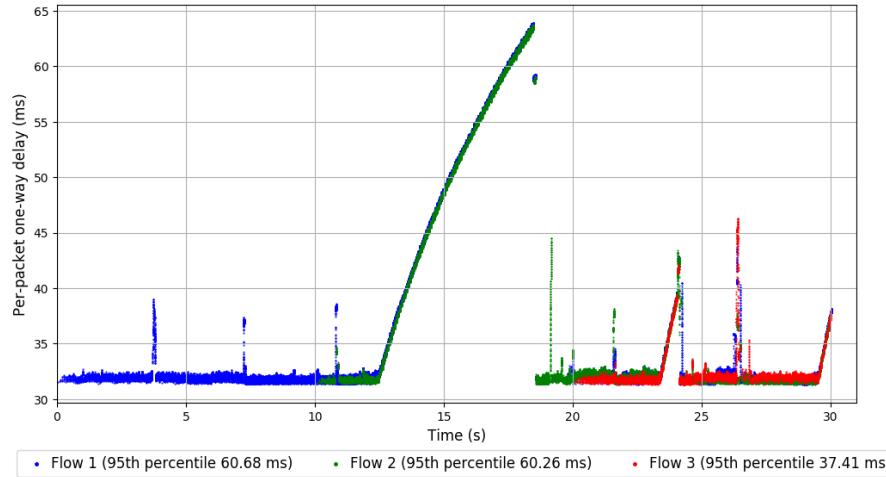
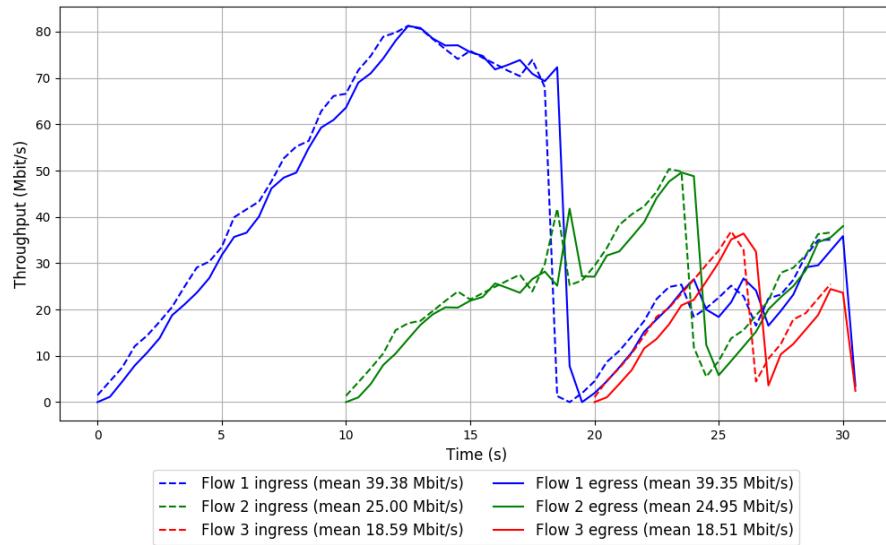


Run 5: Statistics of LEDBAT

```
Start at: 2018-07-03 19:57:54
End at: 2018-07-03 19:58:24
Local clock offset: 0.973 ms
Remote clock offset: 11.552 ms

# Below is generated by plot.py at 2018-07-03 22:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.09 Mbit/s
95th percentile per-packet one-way delay: 60.204 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 60.683 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 24.95 Mbit/s
95th percentile per-packet one-way delay: 60.261 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 18.51 Mbit/s
95th percentile per-packet one-way delay: 37.405 ms
Loss rate: 0.35%
```

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledba

Run 6: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledba

Run 7: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledba

Run 8: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledba

Run 9: Report of LEDBAT — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/ledba

Run 10: Report of LEDBAT — Data Link

Figure is missing

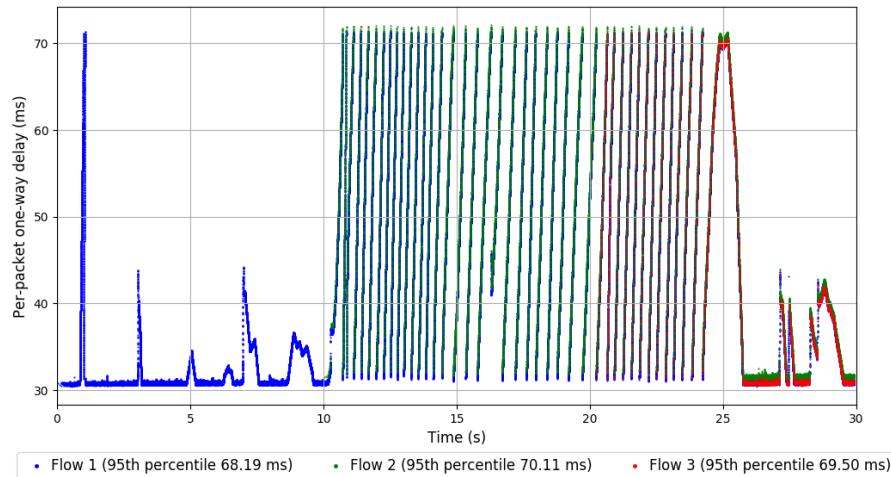
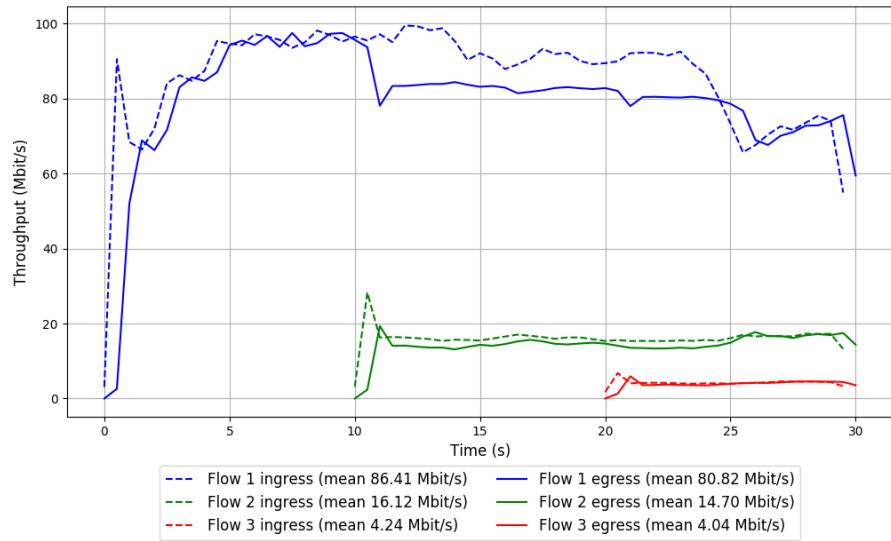
Figure is missing

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

```
Start at: 2018-07-03 18:36:05
End at: 2018-07-03 18:36:35
Local clock offset: -3.052 ms
Remote clock offset: -2.094 ms

# Below is generated by plot.py at 2018-07-03 22:57:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.93 Mbit/s
95th percentile per-packet one-way delay: 68.529 ms
Loss rate: 6.70%
-- Flow 1:
Average throughput: 80.82 Mbit/s
95th percentile per-packet one-way delay: 68.189 ms
Loss rate: 6.47%
-- Flow 2:
Average throughput: 14.70 Mbit/s
95th percentile per-packet one-way delay: 70.107 ms
Loss rate: 8.78%
-- Flow 3:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 69.499 ms
Loss rate: 5.04%
```

Run 1: Report of PCC-Allegro — Data Link

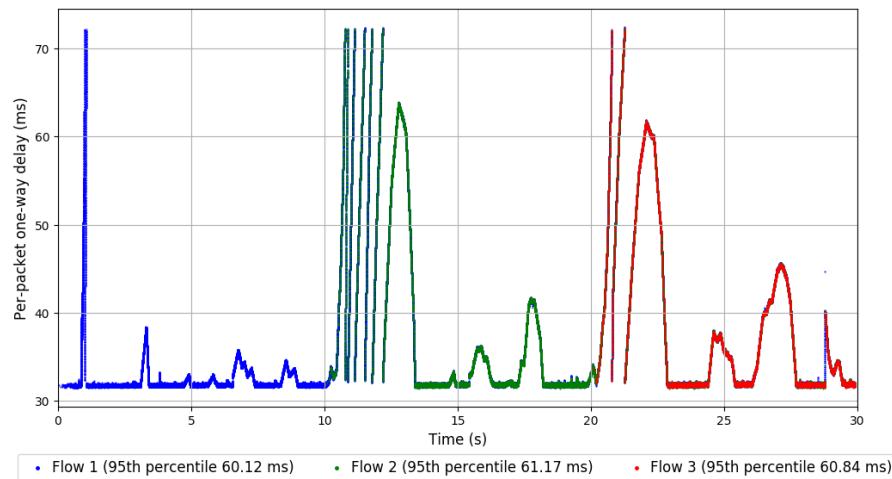
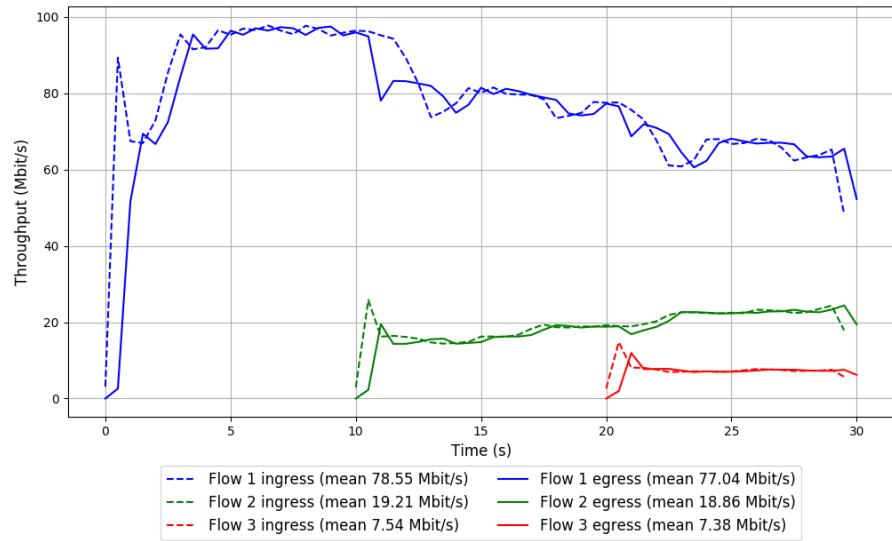


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-07-03 18:58:51
End at: 2018-07-03 18:59:21
Local clock offset: -2.927 ms
Remote clock offset: -1.414 ms

# Below is generated by plot.py at 2018-07-03 22:57:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 60.333 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 60.124 ms
Loss rate: 1.93%
-- Flow 2:
Average throughput: 18.86 Mbit/s
95th percentile per-packet one-way delay: 61.171 ms
Loss rate: 1.78%
-- Flow 3:
Average throughput: 7.38 Mbit/s
95th percentile per-packet one-way delay: 60.835 ms
Loss rate: 2.17%
```

Run 2: Report of PCC-Allegro — Data Link

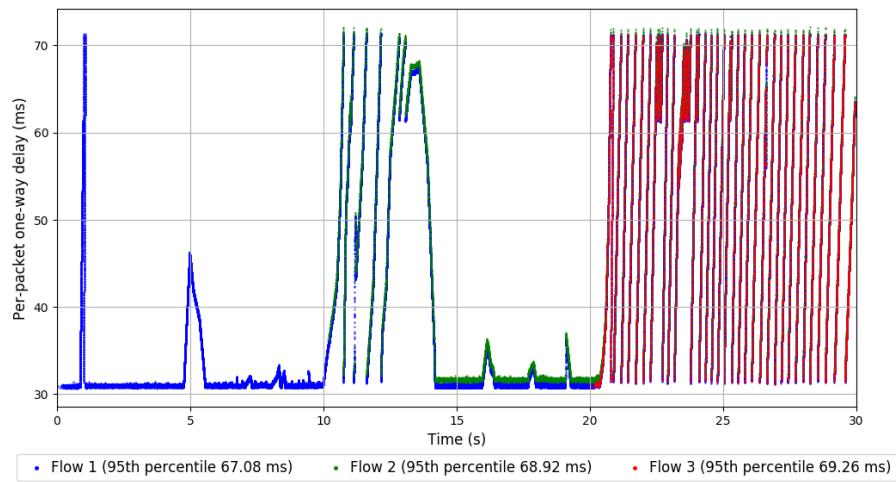
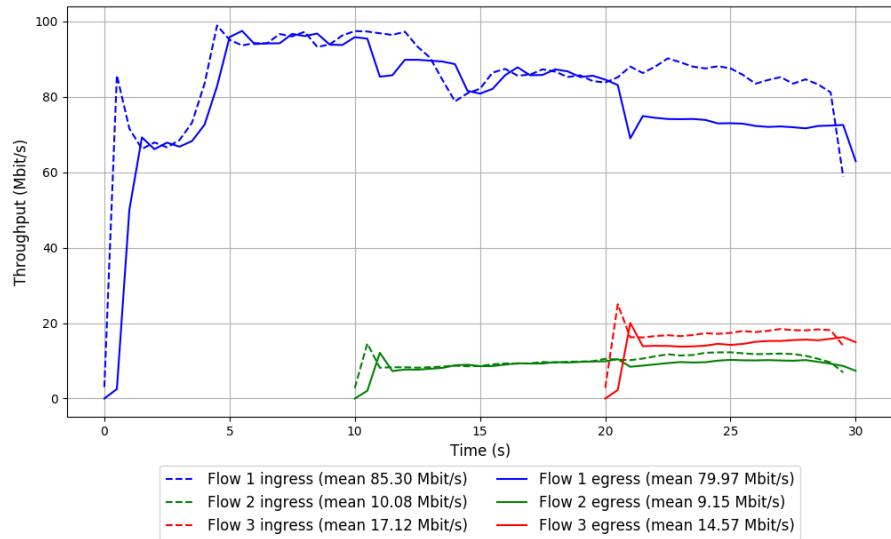


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-07-03 19:21:36
End at: 2018-07-03 19:22:06
Local clock offset: -2.53 ms
Remote clock offset: 6.745 ms

# Below is generated by plot.py at 2018-07-03 22:57:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.88 Mbit/s
95th percentile per-packet one-way delay: 67.350 ms
Loss rate: 6.84%
-- Flow 1:
Average throughput: 79.97 Mbit/s
95th percentile per-packet one-way delay: 67.080 ms
Loss rate: 6.15%
-- Flow 2:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 68.925 ms
Loss rate: 9.03%
-- Flow 3:
Average throughput: 14.57 Mbit/s
95th percentile per-packet one-way delay: 69.264 ms
Loss rate: 14.64%
```

Run 3: Report of PCC-Allegro — Data Link

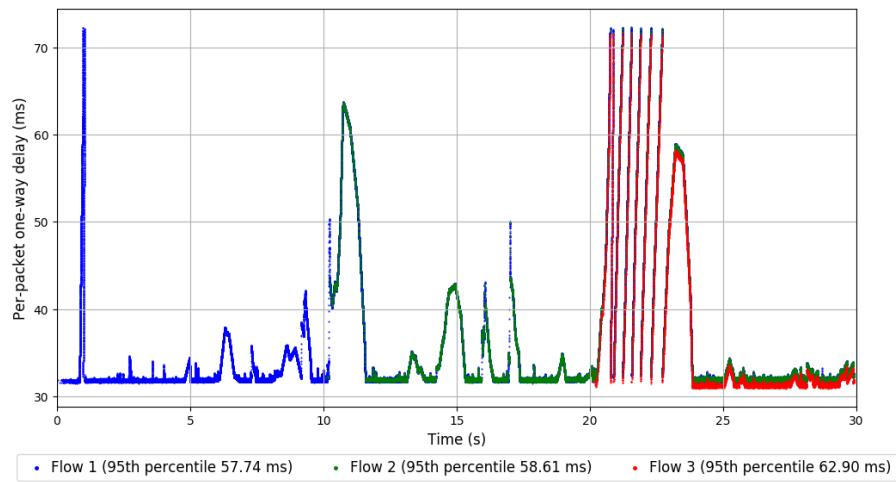
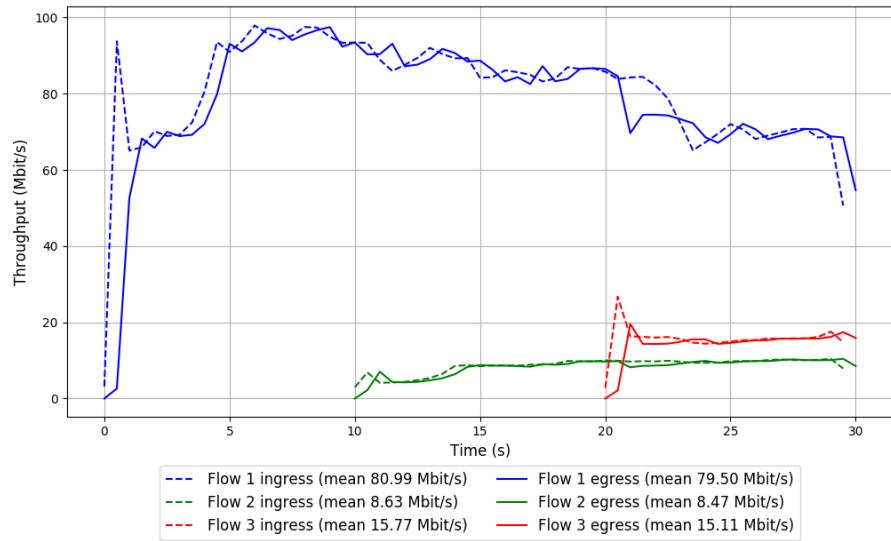


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-07-03 19:44:23
End at: 2018-07-03 19:44:53
Local clock offset: -0.089 ms
Remote clock offset: 10.009 ms

# Below is generated by plot.py at 2018-07-03 22:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 57.993 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 79.50 Mbit/s
95th percentile per-packet one-way delay: 57.741 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 58.612 ms
Loss rate: 1.76%
-- Flow 3:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 62.897 ms
Loss rate: 4.19%
```

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 5: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 6: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 7: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 8: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 9: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_s

Run 10: Report of PCC-Allegro — Data Link

Figure is missing

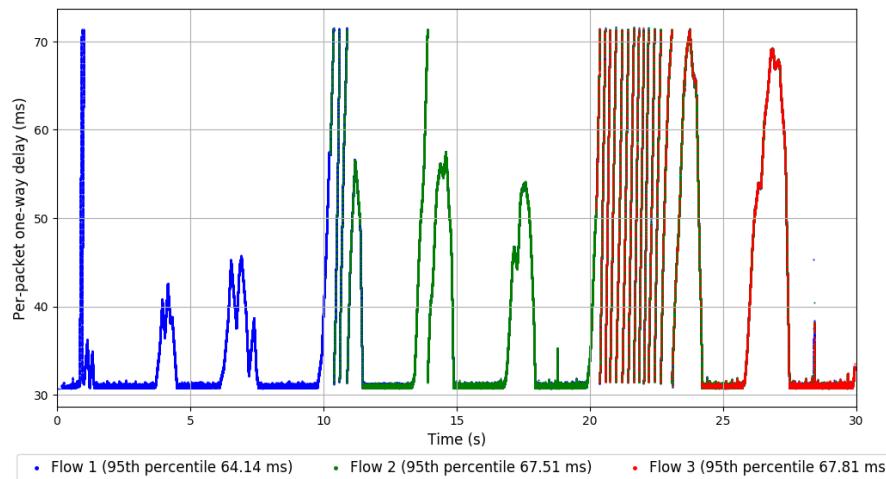
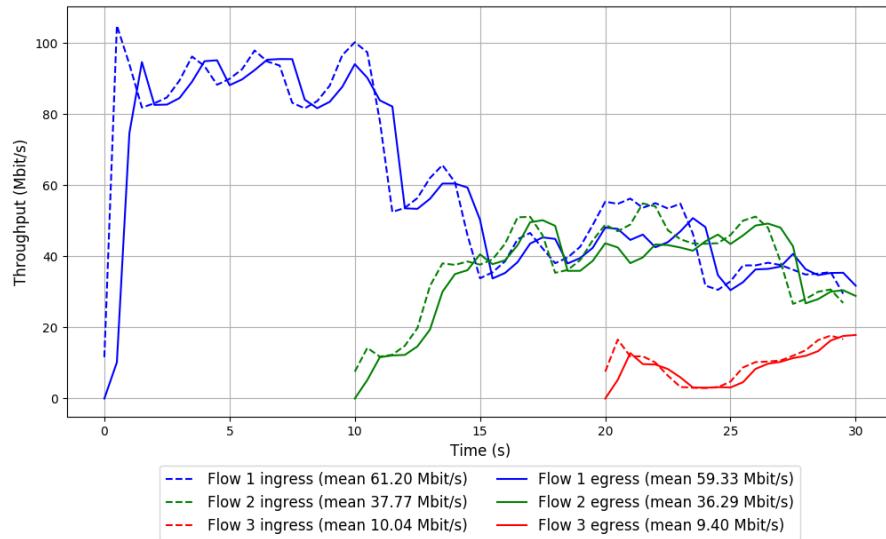
Figure is missing

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

```
Start at: 2018-07-03 18:22:45
End at: 2018-07-03 18:23:15
Local clock offset: -2.671 ms
Remote clock offset: -2.114 ms

# Below is generated by plot.py at 2018-07-03 22:58:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.55 Mbit/s
95th percentile per-packet one-way delay: 66.082 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 59.33 Mbit/s
95th percentile per-packet one-way delay: 64.139 ms
Loss rate: 3.06%
-- Flow 2:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 67.514 ms
Loss rate: 3.98%
-- Flow 3:
Average throughput: 9.40 Mbit/s
95th percentile per-packet one-way delay: 67.807 ms
Loss rate: 6.36%
```

Run 1: Report of PCC-Expr — Data Link

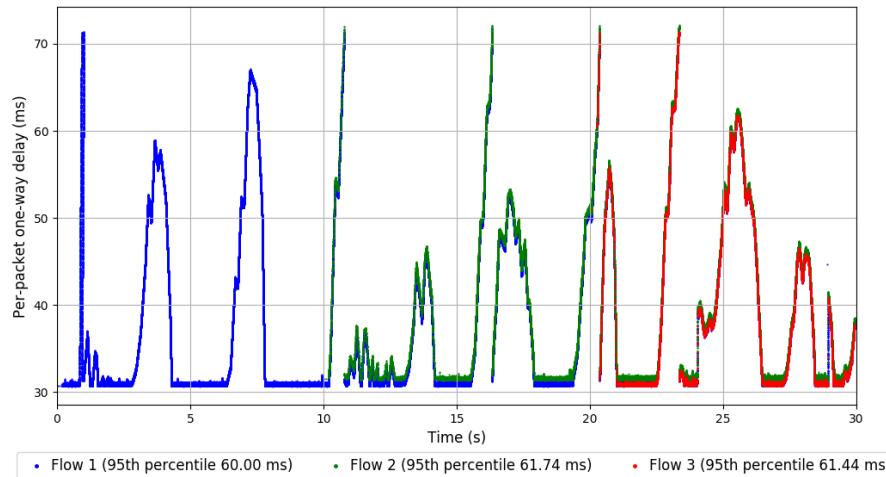
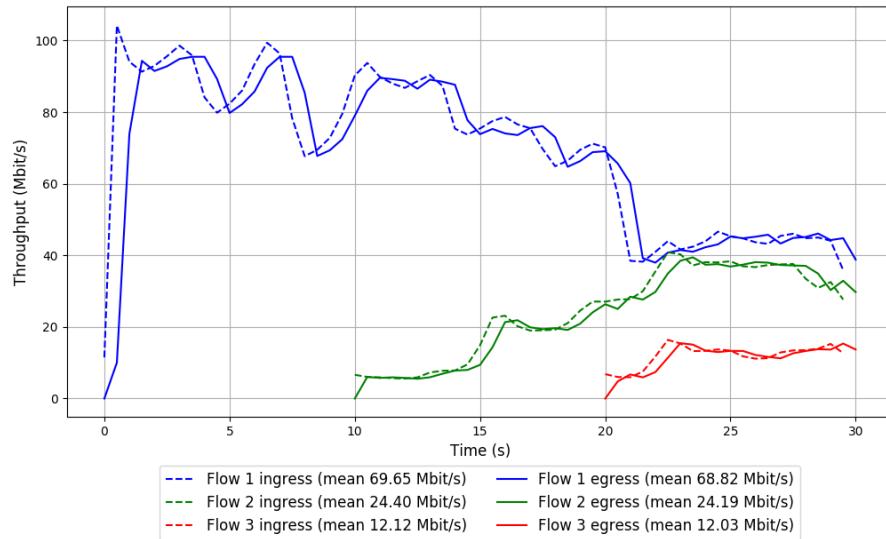


Run 2: Statistics of PCC-Expr

```
Start at: 2018-07-03 18:45:32
End at: 2018-07-03 18:46:02
Local clock offset: -2.95 ms
Remote clock offset: -1.822 ms

# Below is generated by plot.py at 2018-07-03 22:58:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.88 Mbit/s
95th percentile per-packet one-way delay: 60.594 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 68.82 Mbit/s
95th percentile per-packet one-way delay: 60.004 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 24.19 Mbit/s
95th percentile per-packet one-way delay: 61.743 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 61.442 ms
Loss rate: 0.92%
```

Run 2: Report of PCC-Expr — Data Link

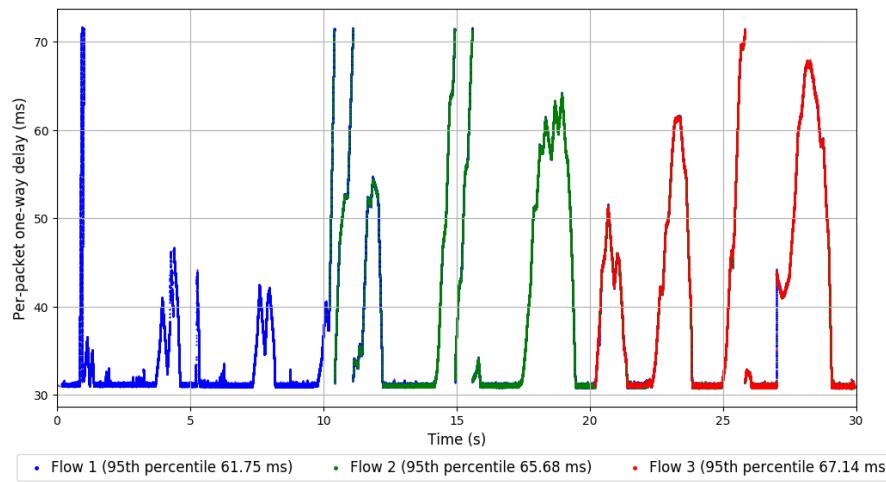
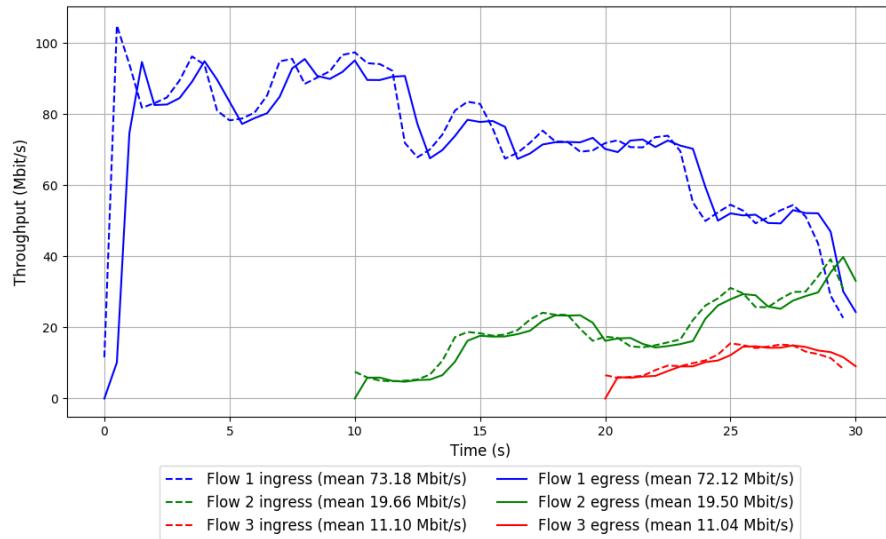


Run 3: Statistics of PCC-Expr

```
Start at: 2018-07-03 19:08:16
End at: 2018-07-03 19:08:46
Local clock offset: -2.765 ms
Remote clock offset: 2.984 ms

# Below is generated by plot.py at 2018-07-03 22:58:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.73 Mbit/s
95th percentile per-packet one-way delay: 62.956 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 61.748 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 19.50 Mbit/s
95th percentile per-packet one-way delay: 65.679 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 11.04 Mbit/s
95th percentile per-packet one-way delay: 67.140 ms
Loss rate: 0.55%
```

Run 3: Report of PCC-Expr — Data Link

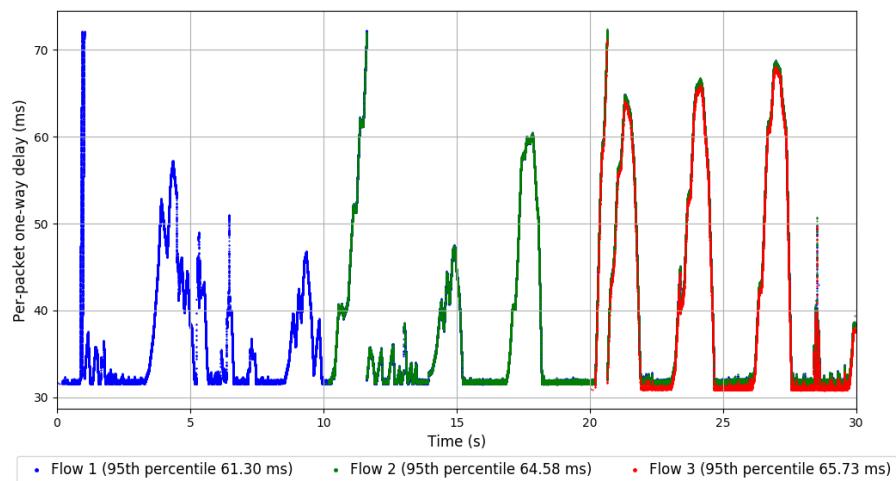
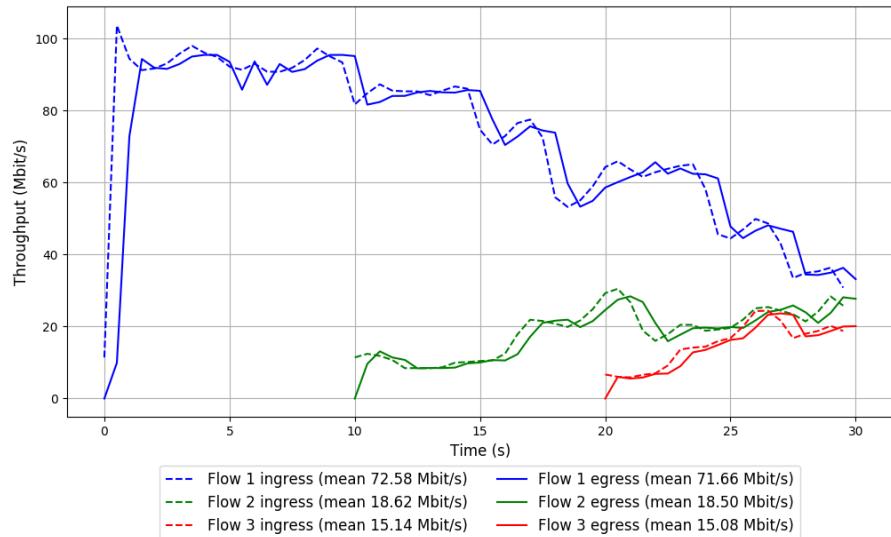


Run 4: Statistics of PCC-Expr

```
Start at: 2018-07-03 19:31:02
End at: 2018-07-03 19:31:32
Local clock offset: -2.515 ms
Remote clock offset: 8.29 ms

# Below is generated by plot.py at 2018-07-03 22:59:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.95 Mbit/s
95th percentile per-packet one-way delay: 62.438 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 71.66 Mbit/s
95th percentile per-packet one-way delay: 61.296 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 18.50 Mbit/s
95th percentile per-packet one-way delay: 64.576 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 65.734 ms
Loss rate: 0.37%
```

Run 4: Report of PCC-Expr — Data Link

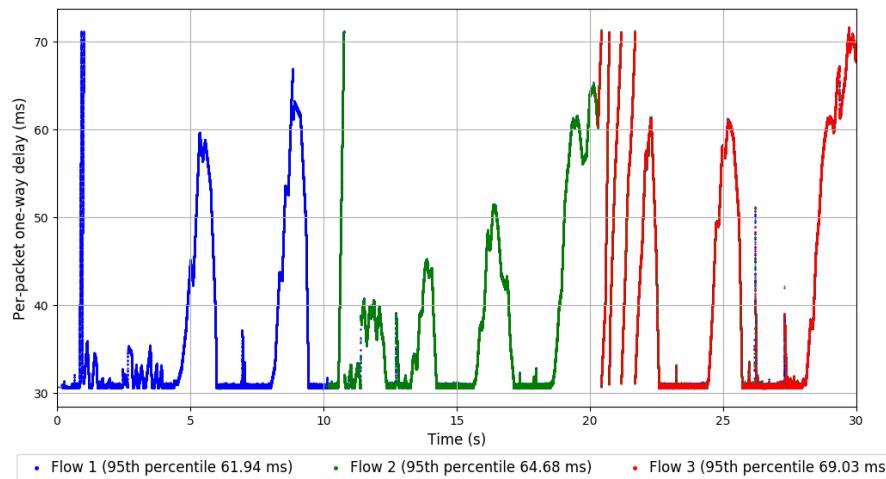
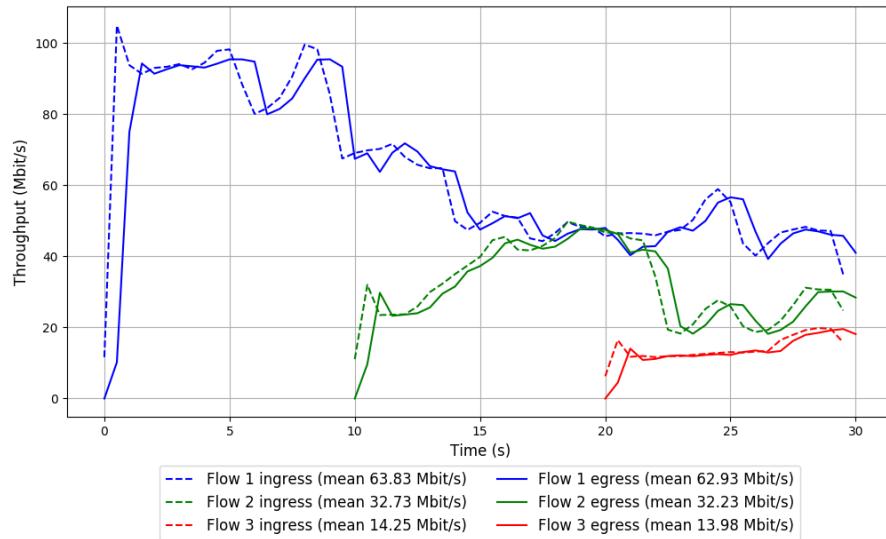


Run 5: Statistics of PCC-Expr

```
Start at: 2018-07-03 19:53:51
End at: 2018-07-03 19:54:21
Local clock offset: 0.736 ms
Remote clock offset: 10.777 ms

# Below is generated by plot.py at 2018-07-03 22:59:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.99 Mbit/s
95th percentile per-packet one-way delay: 63.077 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 62.93 Mbit/s
95th percentile per-packet one-way delay: 61.944 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 32.23 Mbit/s
95th percentile per-packet one-way delay: 64.681 ms
Loss rate: 1.34%
-- Flow 3:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 69.035 ms
Loss rate: 1.86%
```

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_6

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_8

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/pcc_

Run 10: Report of PCC-Expr — Data Link

Figure is missing

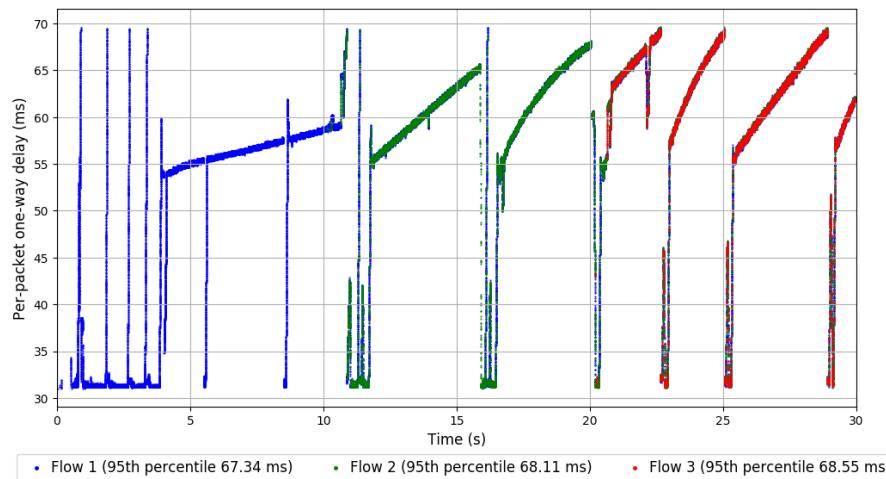
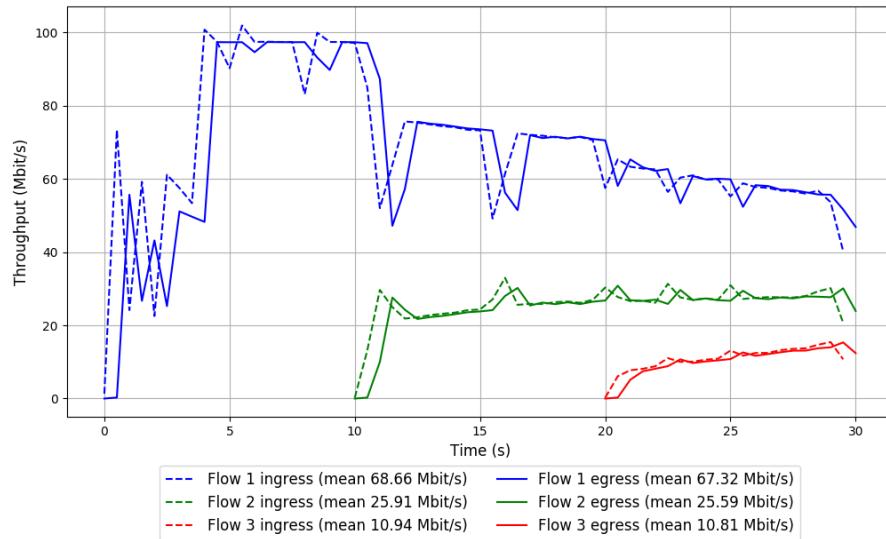
Figure is missing

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-07-03 18:18:44
End at: 2018-07-03 18:19:14
Local clock offset: -2.259 ms
Remote clock offset: -2.263 ms

# Below is generated by plot.py at 2018-07-03 22:59:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 67.637 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 67.32 Mbit/s
95th percentile per-packet one-way delay: 67.338 ms
Loss rate: 1.85%
-- Flow 2:
Average throughput: 25.59 Mbit/s
95th percentile per-packet one-way delay: 68.107 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 10.81 Mbit/s
95th percentile per-packet one-way delay: 68.552 ms
Loss rate: 1.17%
```

Run 1: Report of QUIC Cubic — Data Link

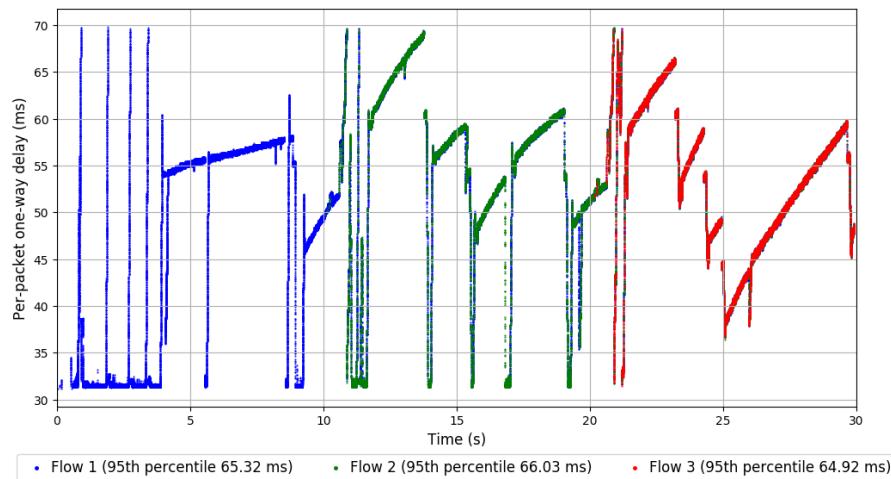
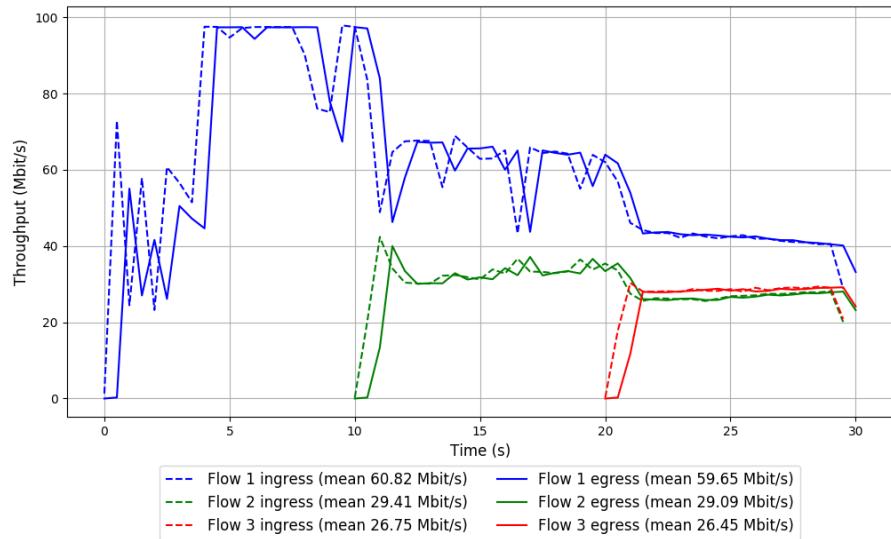


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-07-03 18:41:31
End at: 2018-07-03 18:42:01
Local clock offset: -2.879 ms
Remote clock offset: -1.818 ms

# Below is generated by plot.py at 2018-07-03 22:59:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 65.479 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 59.65 Mbit/s
95th percentile per-packet one-way delay: 65.317 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 29.09 Mbit/s
95th percentile per-packet one-way delay: 66.035 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 26.45 Mbit/s
95th percentile per-packet one-way delay: 64.917 ms
Loss rate: 1.17%
```

Run 2: Report of QUIC Cubic — Data Link

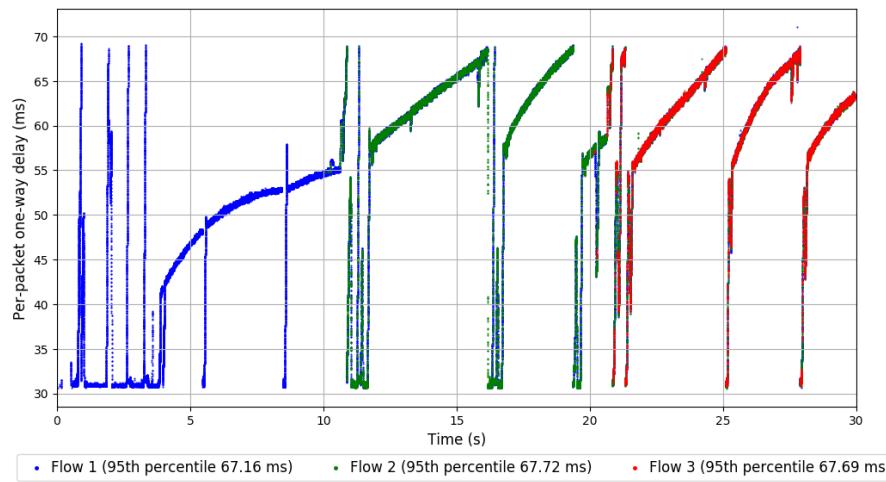
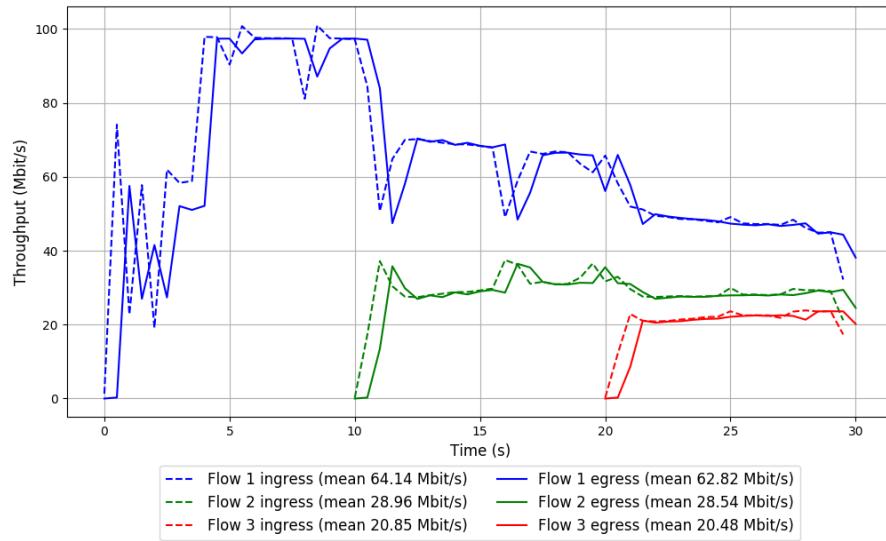


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-07-03 19:04:15
End at: 2018-07-03 19:04:45
Local clock offset: -2.782 ms
Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2018-07-03 22:59:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.52 Mbit/s
95th percentile per-packet one-way delay: 67.398 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 62.82 Mbit/s
95th percentile per-packet one-way delay: 67.159 ms
Loss rate: 1.95%
-- Flow 2:
Average throughput: 28.54 Mbit/s
95th percentile per-packet one-way delay: 67.717 ms
Loss rate: 1.40%
-- Flow 3:
Average throughput: 20.48 Mbit/s
95th percentile per-packet one-way delay: 67.693 ms
Loss rate: 1.70%
```

Run 3: Report of QUIC Cubic — Data Link

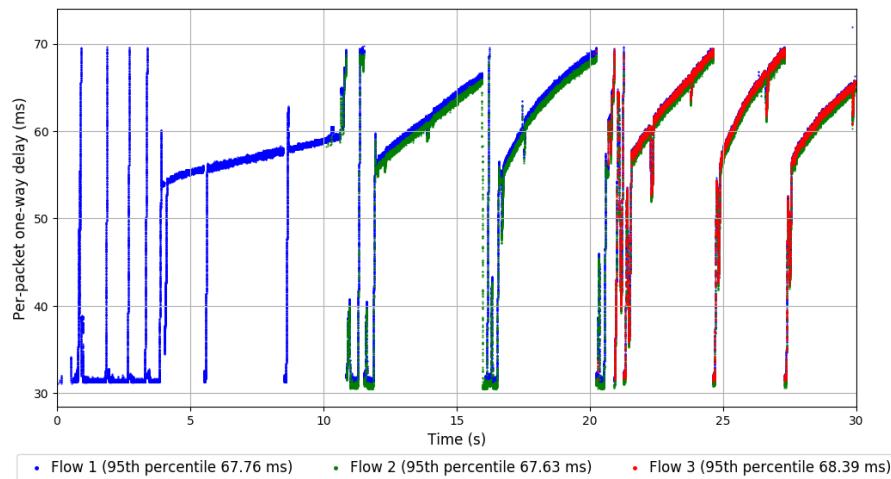
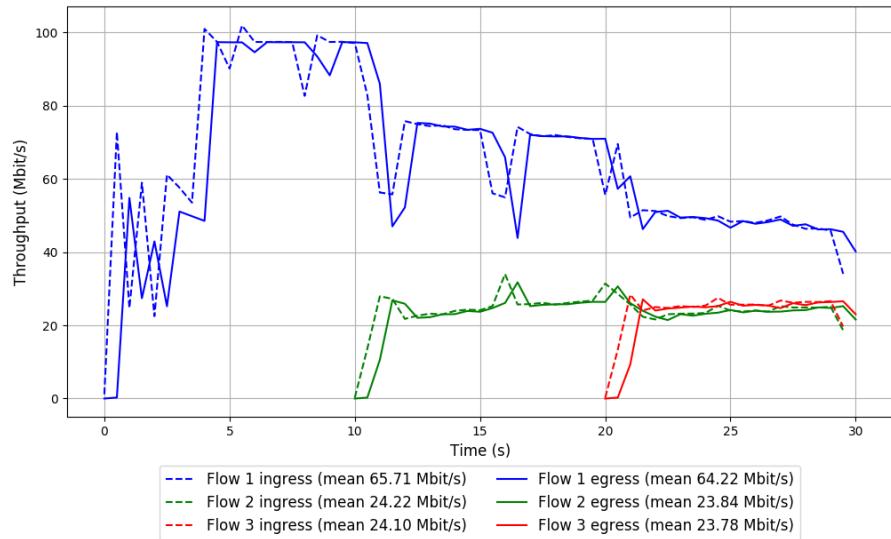


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-07-03 19:27:00
End at: 2018-07-03 19:27:30
Local clock offset: -2.586 ms
Remote clock offset: 7.399 ms

# Below is generated by plot.py at 2018-07-03 22:59:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 67.838 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 67.757 ms
Loss rate: 2.15%
-- Flow 2:
Average throughput: 23.84 Mbit/s
95th percentile per-packet one-way delay: 67.629 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 23.78 Mbit/s
95th percentile per-packet one-way delay: 68.391 ms
Loss rate: 1.37%
```

Run 4: Report of QUIC Cubic — Data Link

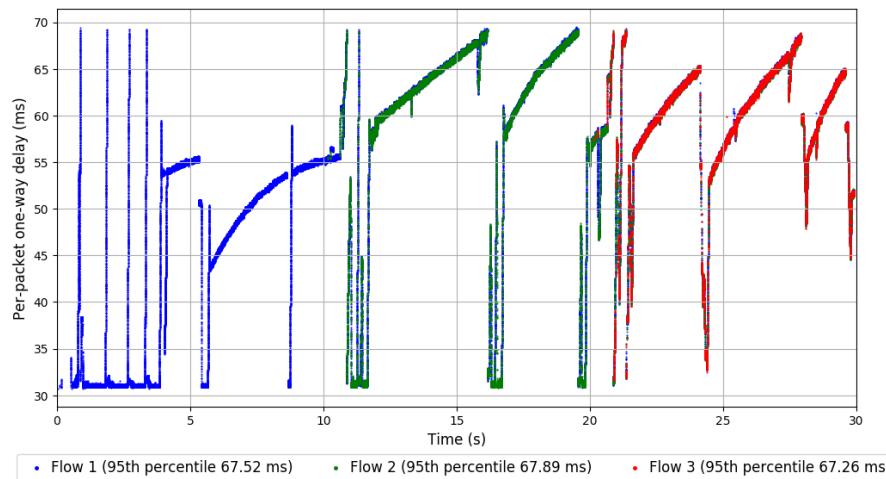
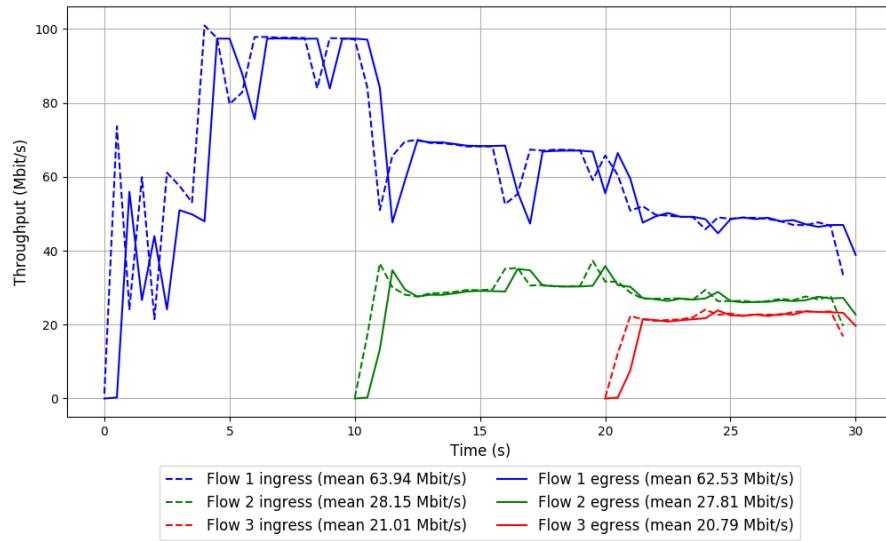


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-07-03 19:49:49
End at: 2018-07-03 19:50:19
Local clock offset: 0.325 ms
Remote clock offset: 10.478 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.82 Mbit/s
95th percentile per-packet one-way delay: 67.608 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 62.53 Mbit/s
95th percentile per-packet one-way delay: 67.516 ms
Loss rate: 2.13%
-- Flow 2:
Average throughput: 27.81 Mbit/s
95th percentile per-packet one-way delay: 67.895 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 67.262 ms
Loss rate: 1.11%
```

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic_

Run 6: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic_

Run 7: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic_

Run 8: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic_

Run 9: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/quic_

Run 10: Report of QUIC Cubic — Data Link

Figure is missing

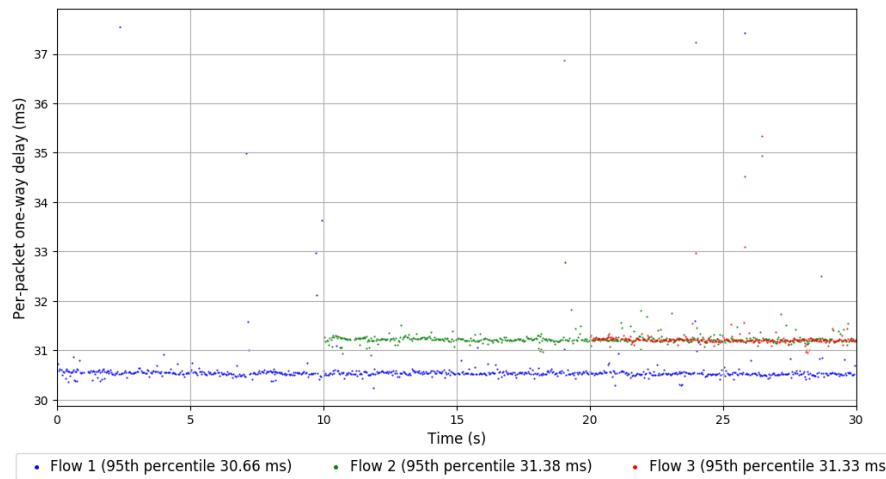
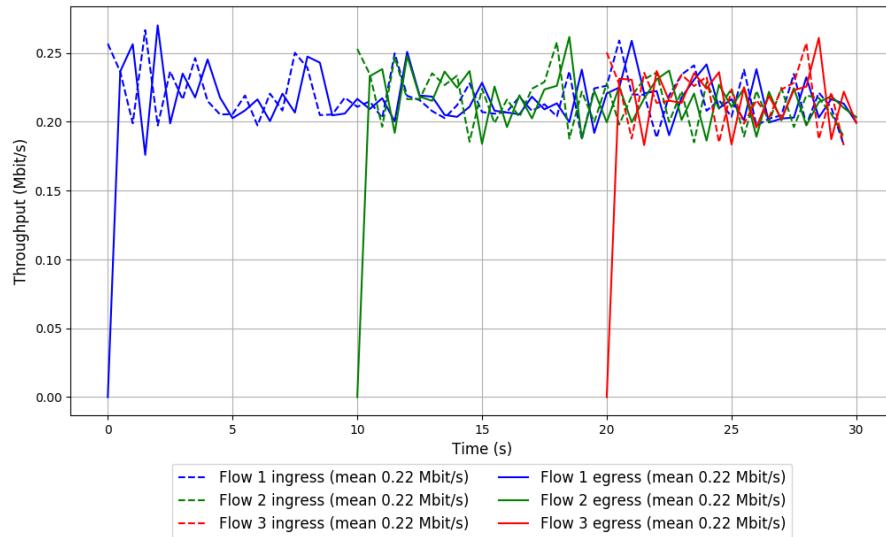
Figure is missing

Run 1: Statistics of SCReAM

```
Start at: 2018-07-03 18:29:28
End at: 2018-07-03 18:29:58
Local clock offset: -3.007 ms
Remote clock offset: -2.432 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 31.291 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.655 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.382 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.331 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

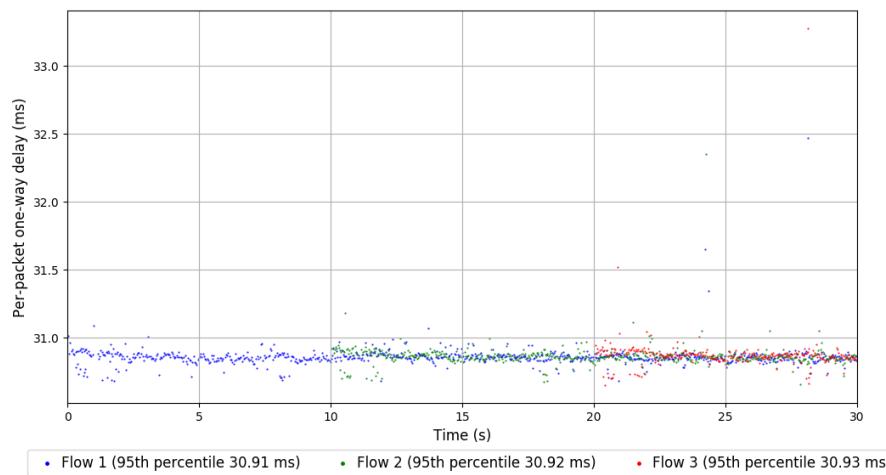
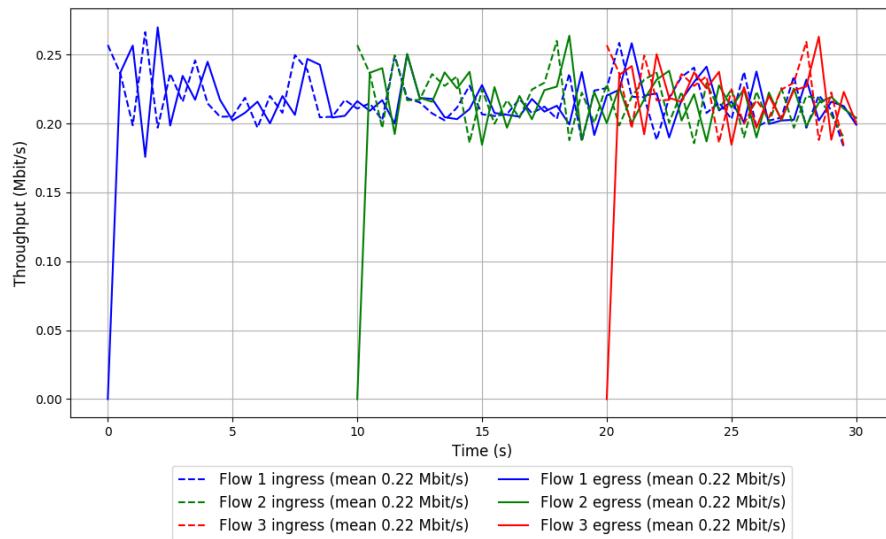


Run 2: Statistics of SCReAM

```
Start at: 2018-07-03 18:52:14
End at: 2018-07-03 18:52:44
Local clock offset: -2.931 ms
Remote clock offset: -1.675 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 30.919 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.914 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.921 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.925 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

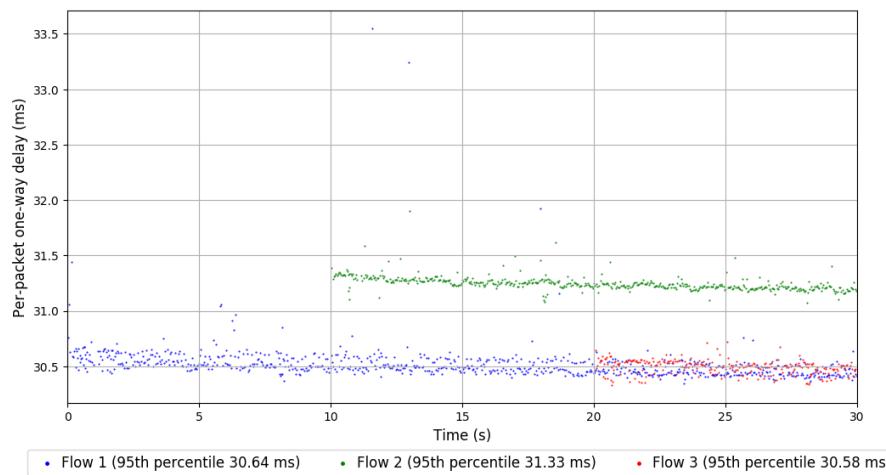
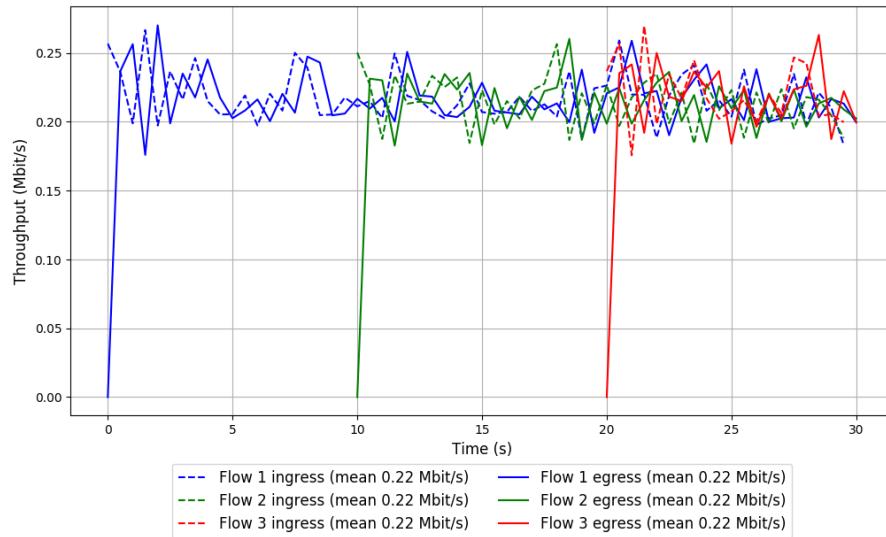


Run 3: Statistics of SCReAM

```
Start at: 2018-07-03 19:14:58
End at: 2018-07-03 19:15:28
Local clock offset: -2.593 ms
Remote clock offset: 4.97 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.644 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.580 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

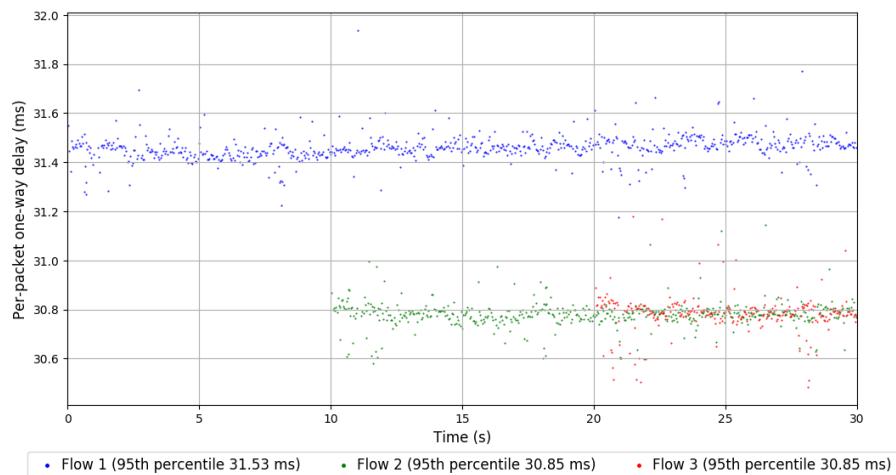
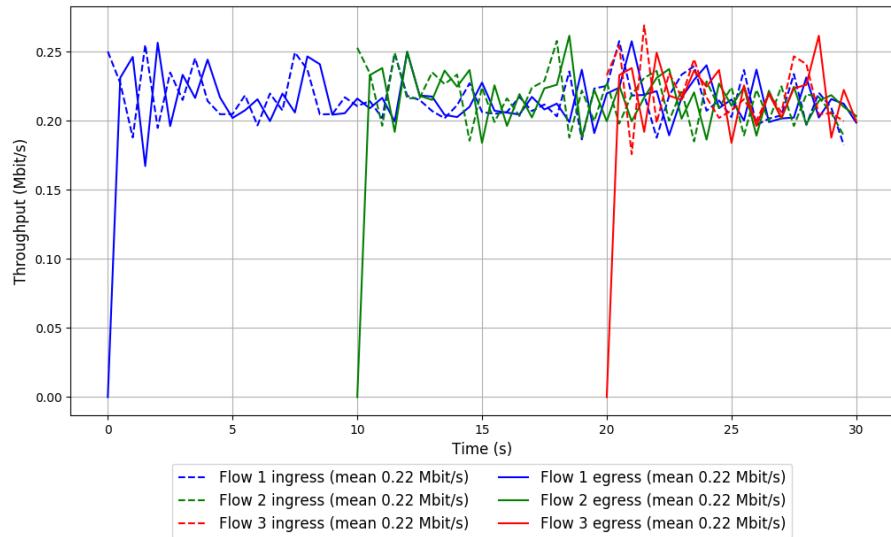


Run 4: Statistics of SCReAM

```
Start at: 2018-07-03 19:37:45
End at: 2018-07-03 19:38:15
Local clock offset: -1.337 ms
Remote clock offset: 8.694 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 31.506 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.526 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.848 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.852 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

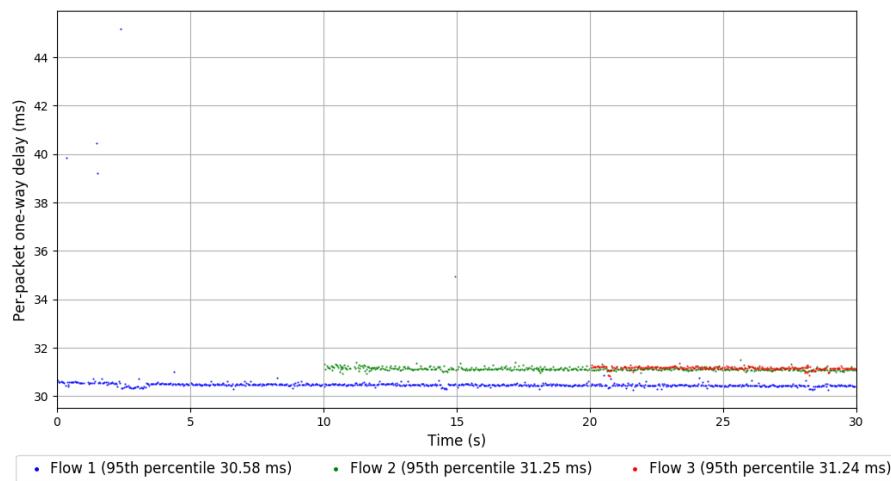
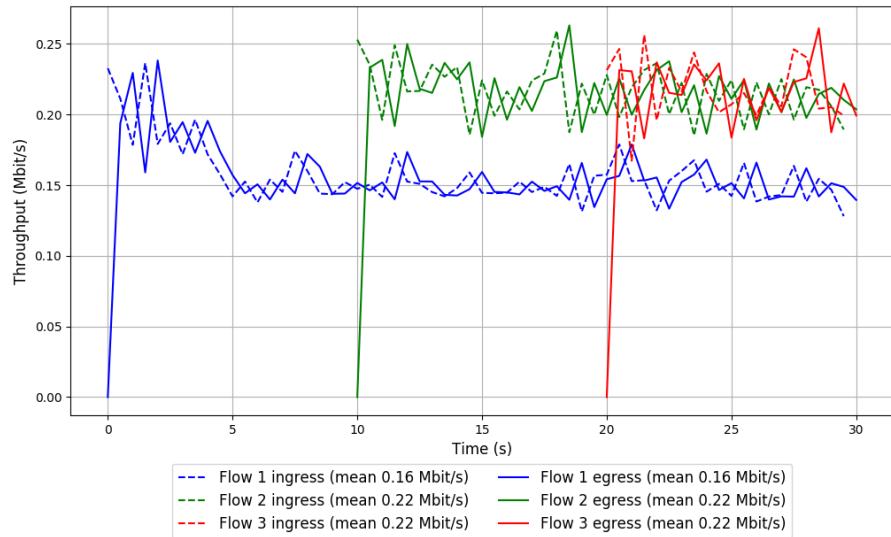


Run 5: Statistics of SCReAM

```
Start at: 2018-07-03 20:00:32
End at: 2018-07-03 20:01:02
Local clock offset: 1.028 ms
Remote clock offset: 11.66 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 31.217 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 30.584 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.245 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.238 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



Run 6: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/scream

Run 6: Report of SCReAM — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/scream

Run 7: Report of SCReAM — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/screa

Run 8: Report of SCReAM — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/scream

Run 9: Report of SCReAM — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/scream

Run 10: Report of SCReAM — Data Link

Figure is missing

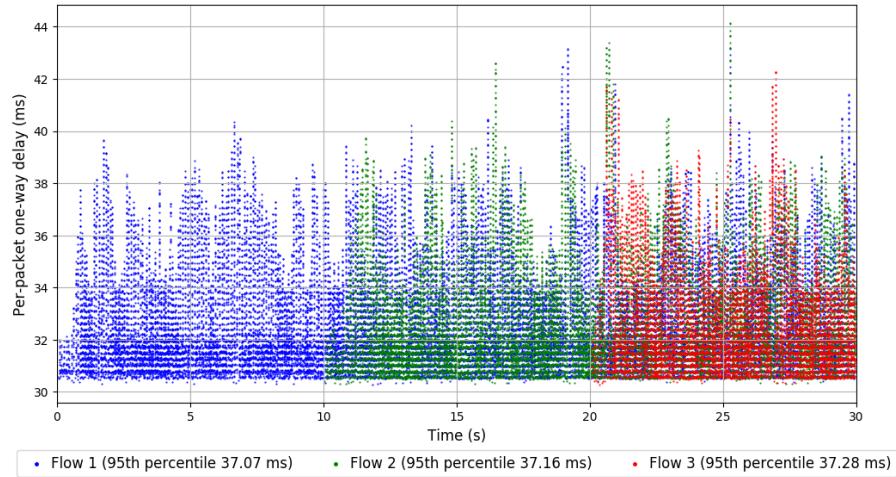
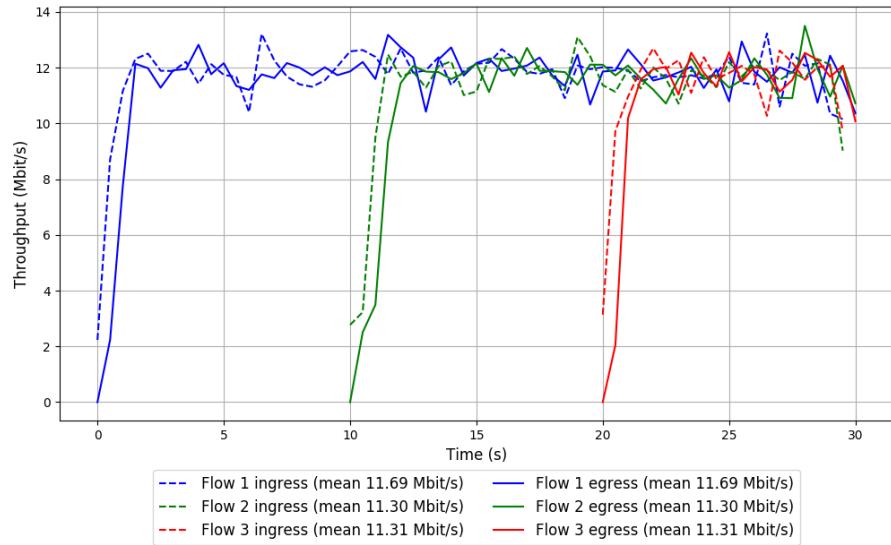
Figure is missing

Run 1: Statistics of Sprout

```
Start at: 2018-07-03 18:33:26
End at: 2018-07-03 18:33:56
Local clock offset: -3.162 ms
Remote clock offset: -2.282 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.93 Mbit/s
95th percentile per-packet one-way delay: 37.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 37.066 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 37.165 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.31 Mbit/s
95th percentile per-packet one-way delay: 37.281 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

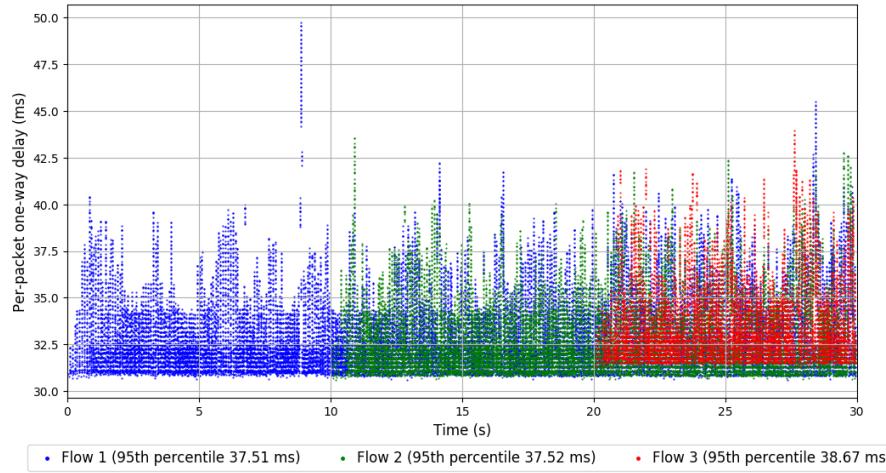
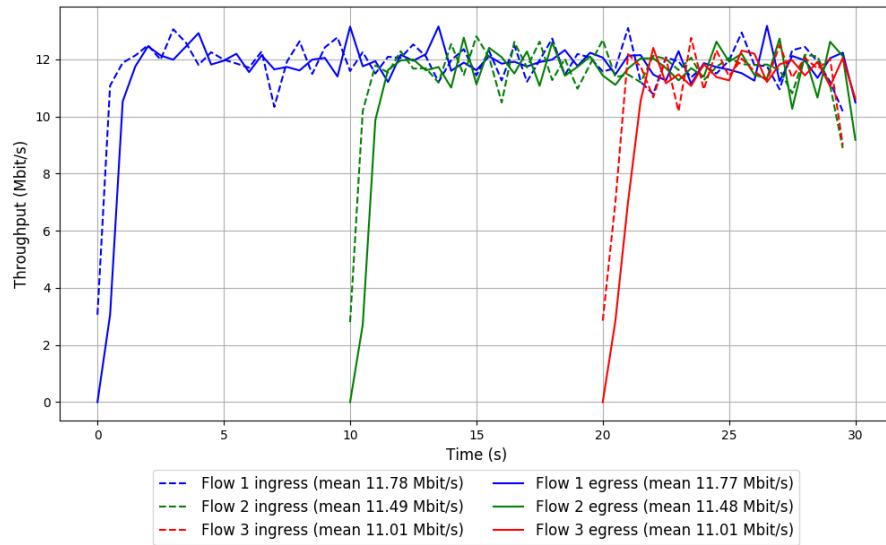


Run 2: Statistics of Sprout

```
Start at: 2018-07-03 18:56:12
End at: 2018-07-03 18:56:42
Local clock offset: -2.841 ms
Remote clock offset: -1.473 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.05 Mbit/s
95th percentile per-packet one-way delay: 37.710 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 37.509 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 37.521 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 11.01 Mbit/s
95th percentile per-packet one-way delay: 38.673 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

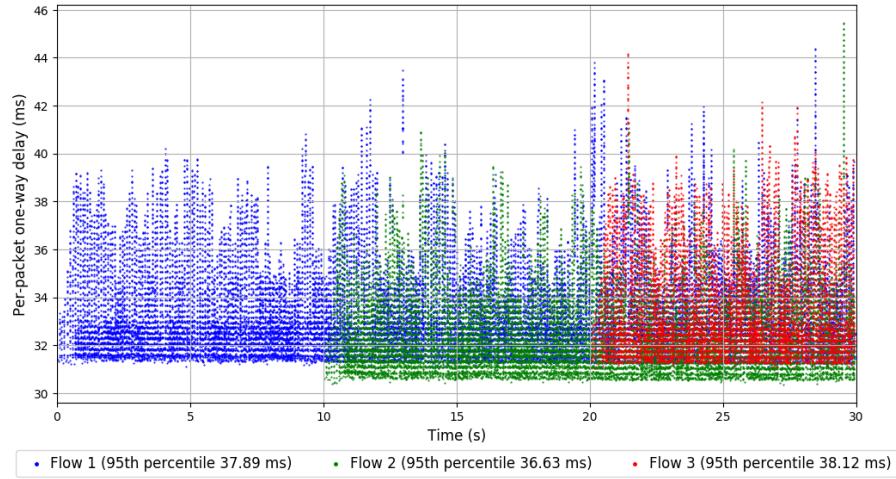
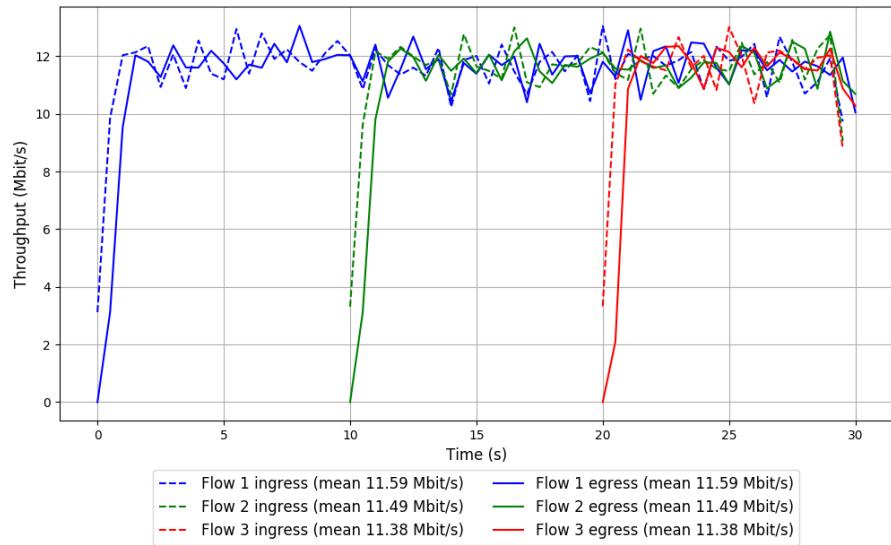


Run 3: Statistics of Sprout

```
Start at: 2018-07-03 19:18:56
End at: 2018-07-03 19:19:26
Local clock offset: -2.627 ms
Remote clock offset: 5.997 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.98 Mbit/s
95th percentile per-packet one-way delay: 37.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 37.892 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 36.628 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.38 Mbit/s
95th percentile per-packet one-way delay: 38.122 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

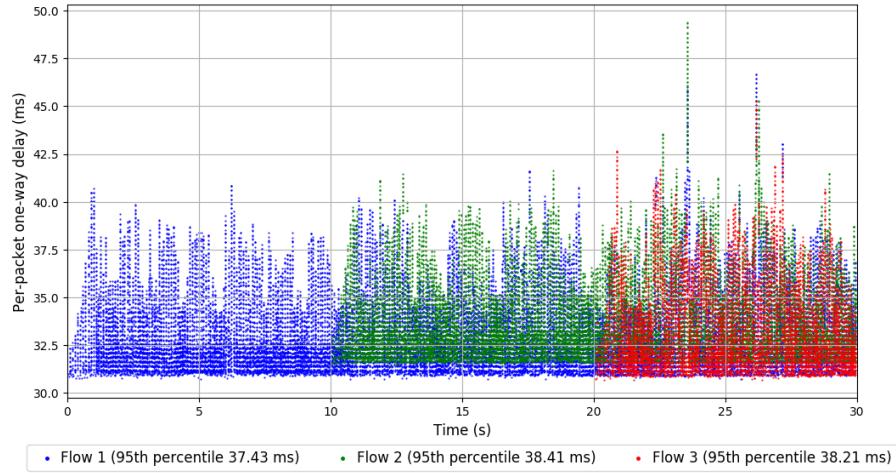
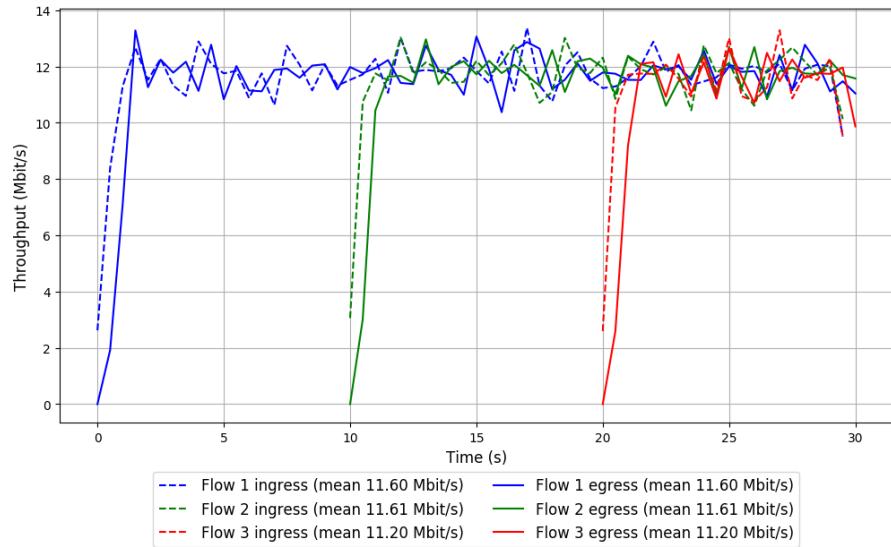


Run 4: Statistics of Sprout

```
Start at: 2018-07-03 19:41:44
End at: 2018-07-03 19:42:14
Local clock offset: -0.485 ms
Remote clock offset: 9.572 ms

# Below is generated by plot.py at 2018-07-03 22:59:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.02 Mbit/s
95th percentile per-packet one-way delay: 37.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 37.428 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 38.407 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 38.211 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 5: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 6: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 7: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 8: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 9: Report of Sprout — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Sprout

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/sprout

Run 10: Report of Sprout — Data Link

Figure is missing

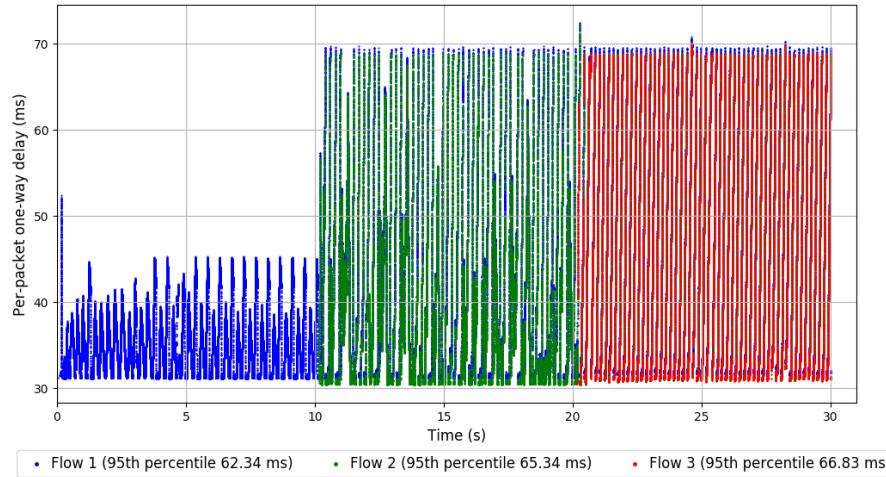
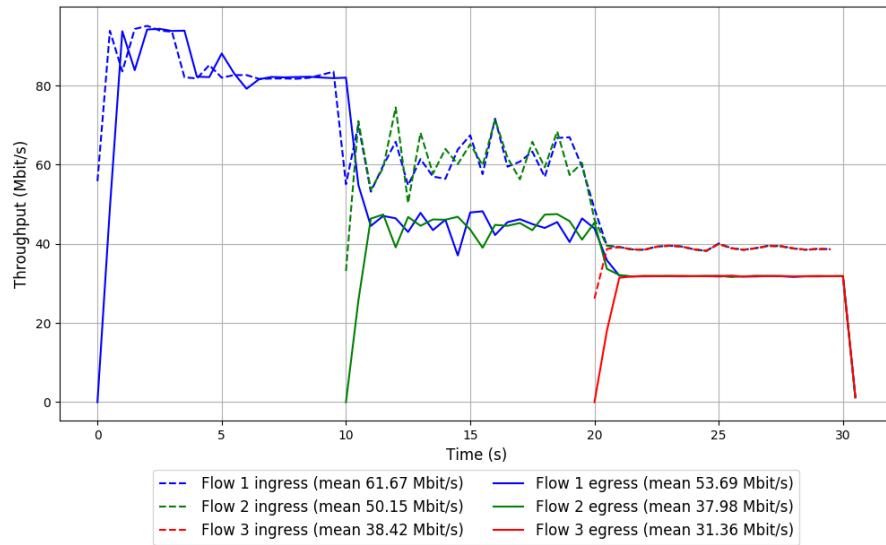
Figure is missing

Run 1: Statistics of TaoVA-100x

```
Start at: 2018-07-03 18:38:46
End at: 2018-07-03 18:39:16
Local clock offset: -3.013 ms
Remote clock offset: -2.179 ms

# Below is generated by plot.py at 2018-07-03 23:01:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 64.573 ms
Loss rate: 17.13%
-- Flow 1:
Average throughput: 53.69 Mbit/s
95th percentile per-packet one-way delay: 62.339 ms
Loss rate: 12.94%
-- Flow 2:
Average throughput: 37.98 Mbit/s
95th percentile per-packet one-way delay: 65.343 ms
Loss rate: 24.30%
-- Flow 3:
Average throughput: 31.36 Mbit/s
95th percentile per-packet one-way delay: 66.825 ms
Loss rate: 18.58%
```

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

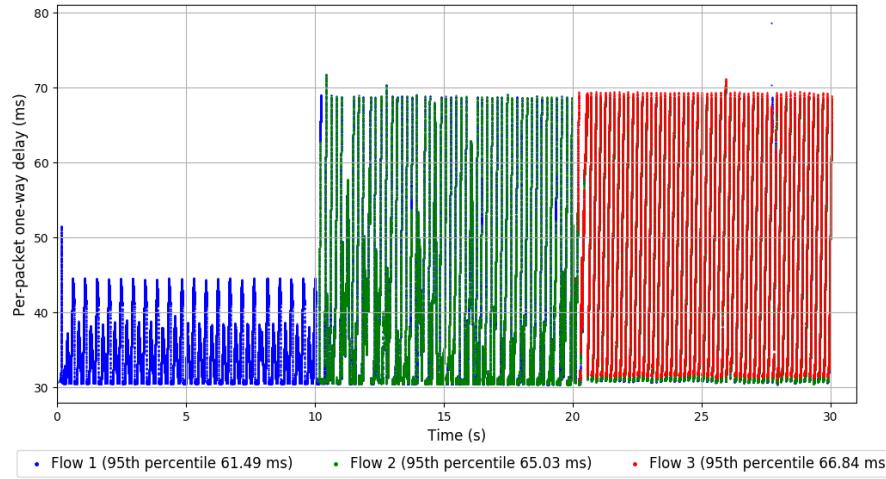
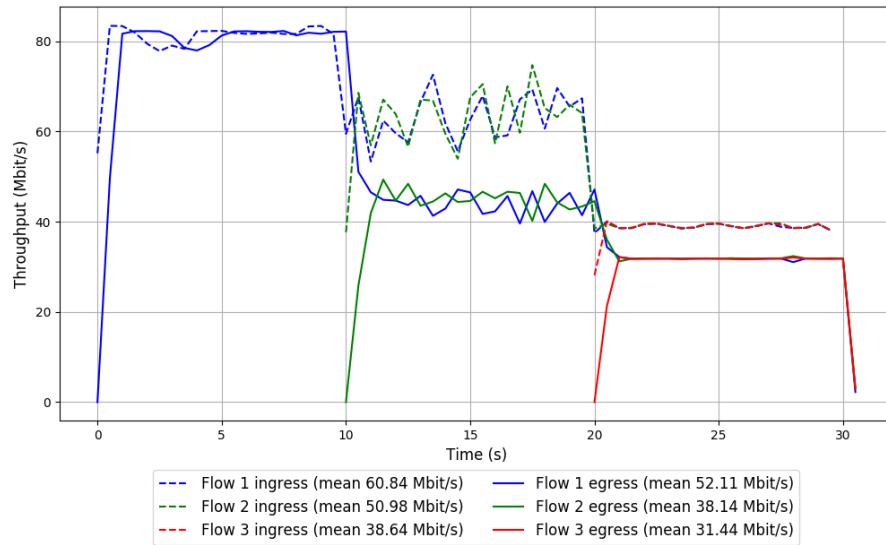


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-07-03 19:01:31
End at: 2018-07-03 19:02:01
Local clock offset: -2.82 ms
Remote clock offset: -1.665 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.98 Mbit/s
95th percentile per-packet one-way delay: 64.263 ms
Loss rate: 18.18%
-- Flow 1:
Average throughput: 52.11 Mbit/s
95th percentile per-packet one-way delay: 61.490 ms
Loss rate: 14.28%
-- Flow 2:
Average throughput: 38.14 Mbit/s
95th percentile per-packet one-way delay: 65.026 ms
Loss rate: 25.07%
-- Flow 3:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 66.839 ms
Loss rate: 18.43%
```

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

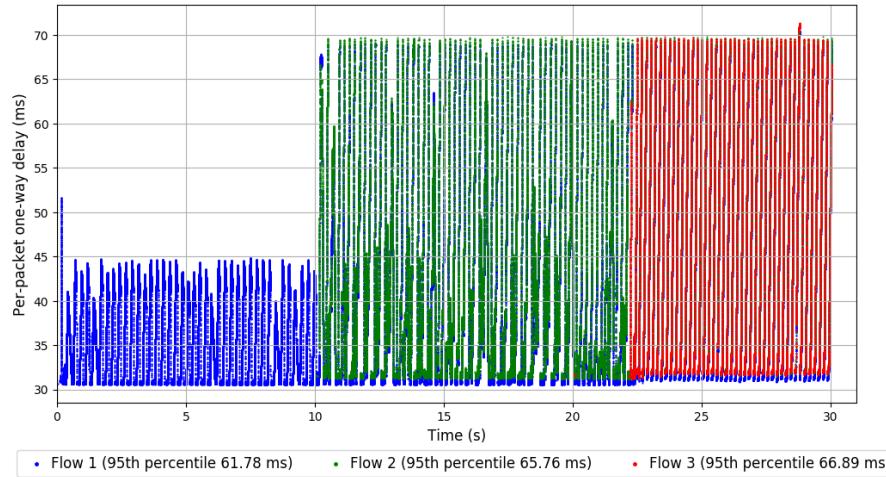
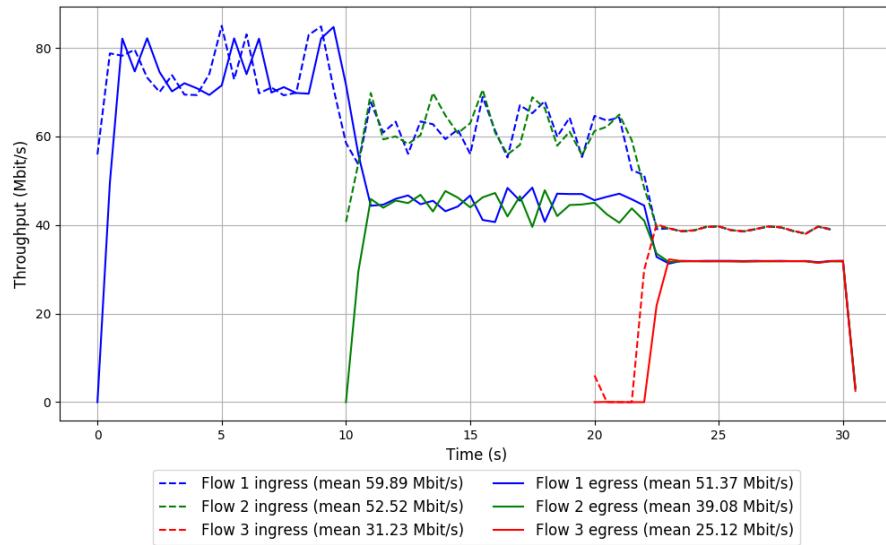


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-07-03 19:24:16
End at: 2018-07-03 19:24:46
Local clock offset: -2.498 ms
Remote clock offset: 7.073 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.78 Mbit/s
95th percentile per-packet one-way delay: 64.551 ms
Loss rate: 18.43%
-- Flow 1:
Average throughput: 51.37 Mbit/s
95th percentile per-packet one-way delay: 61.776 ms
Loss rate: 14.14%
-- Flow 2:
Average throughput: 39.08 Mbit/s
95th percentile per-packet one-way delay: 65.758 ms
Loss rate: 25.48%
-- Flow 3:
Average throughput: 25.12 Mbit/s
95th percentile per-packet one-way delay: 66.886 ms
Loss rate: 19.42%
```

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

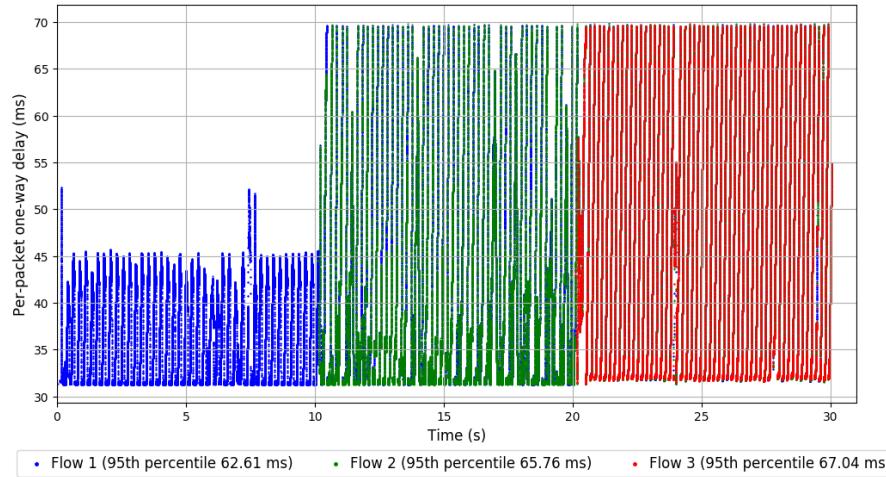
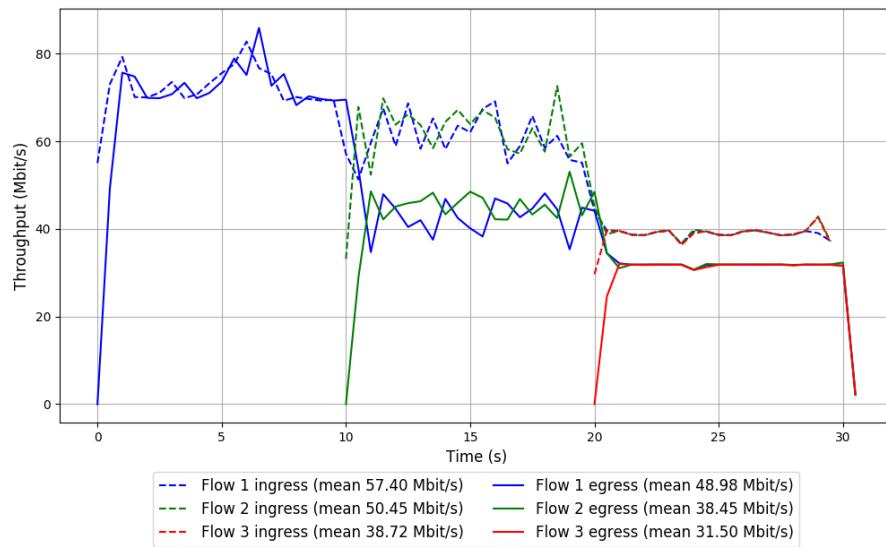


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-07-03 19:47:04
End at: 2018-07-03 19:47:34
Local clock offset: 0.197 ms
Remote clock offset: 10.002 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 65.021 ms
Loss rate: 18.03%
-- Flow 1:
Average throughput: 48.98 Mbit/s
95th percentile per-packet one-way delay: 62.610 ms
Loss rate: 14.61%
-- Flow 2:
Average throughput: 38.45 Mbit/s
95th percentile per-packet one-way delay: 65.760 ms
Loss rate: 23.70%
-- Flow 3:
Average throughput: 31.50 Mbit/s
95th percentile per-packet one-way delay: 67.040 ms
Loss rate: 18.49%
```

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



Run 5: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 6: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 7: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 8: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 9: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

Figure is missing

Run 10: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/taova

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

Figure is missing

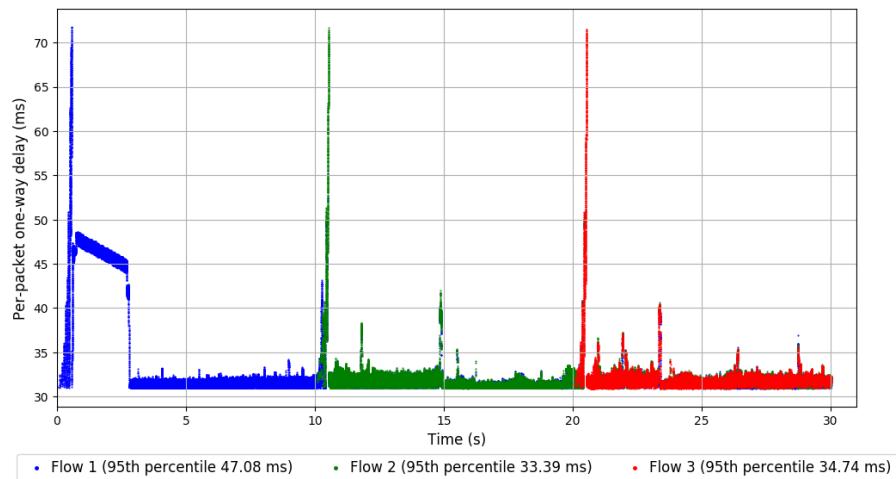
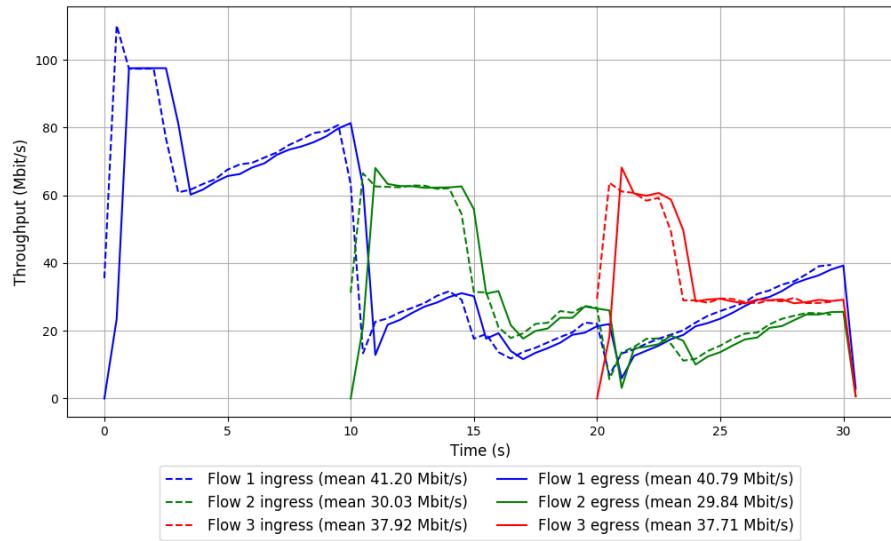
Figure is missing

Run 1: Statistics of TCP Vegas

```
Start at: 2018-07-03 18:28:08
End at: 2018-07-03 18:28:38
Local clock offset: -2.867 ms
Remote clock offset: -1.825 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.21 Mbit/s
95th percentile per-packet one-way delay: 46.550 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 40.79 Mbit/s
95th percentile per-packet one-way delay: 47.075 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 29.84 Mbit/s
95th percentile per-packet one-way delay: 33.391 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 37.71 Mbit/s
95th percentile per-packet one-way delay: 34.744 ms
Loss rate: 0.53%
```

Run 1: Report of TCP Vegas — Data Link

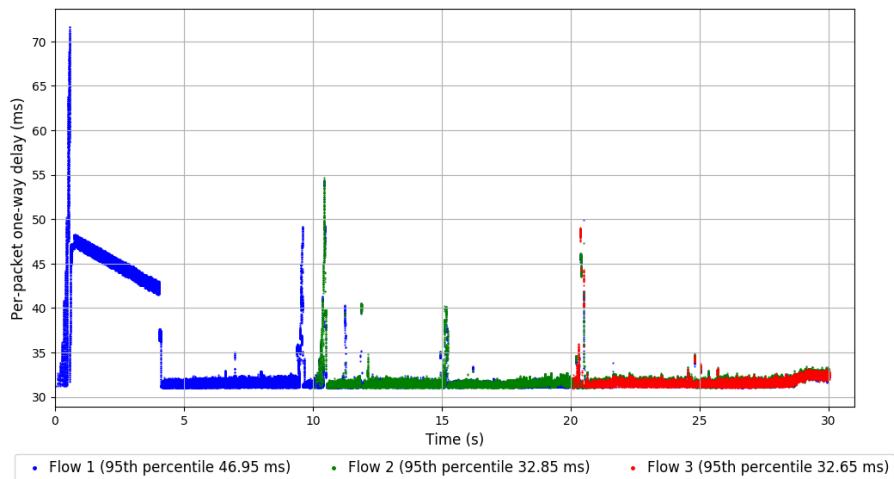
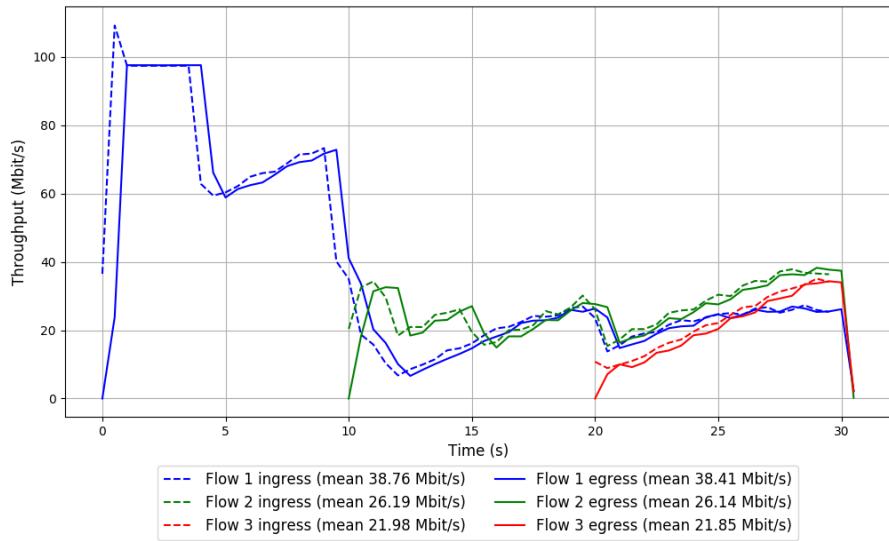


Run 2: Statistics of TCP Vegas

```
Start at: 2018-07-03 18:50:55
End at: 2018-07-03 18:51:25
Local clock offset: -2.949 ms
Remote clock offset: -1.367 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.08 Mbit/s
95th percentile per-packet one-way delay: 46.465 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 38.41 Mbit/s
95th percentile per-packet one-way delay: 46.947 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 32.855 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 21.85 Mbit/s
95th percentile per-packet one-way delay: 32.646 ms
Loss rate: 0.55%
```

Run 2: Report of TCP Vegas — Data Link

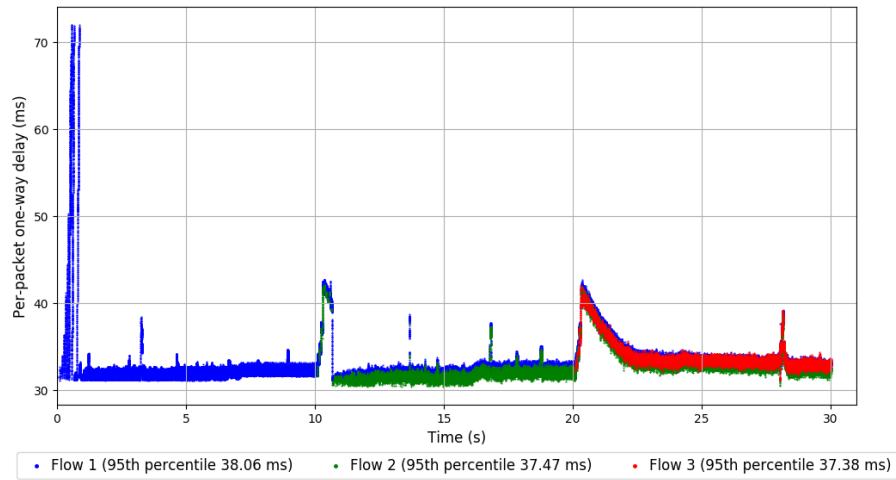
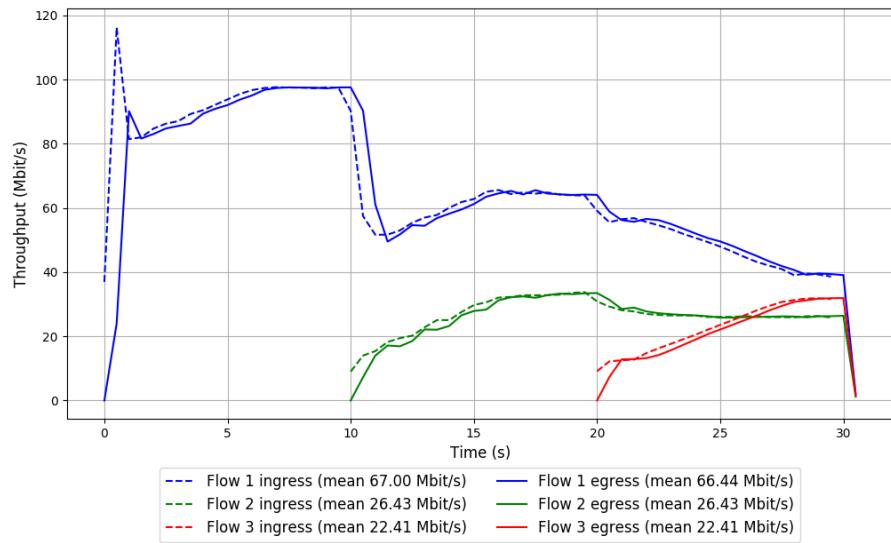


Run 3: Statistics of TCP Vegas

```
Start at: 2018-07-03 19:13:38
End at: 2018-07-03 19:14:08
Local clock offset: -2.581 ms
Remote clock offset: 4.644 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.49 Mbit/s
95th percentile per-packet one-way delay: 37.823 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 66.44 Mbit/s
95th percentile per-packet one-way delay: 38.064 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 26.43 Mbit/s
95th percentile per-packet one-way delay: 37.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.41 Mbit/s
95th percentile per-packet one-way delay: 37.376 ms
Loss rate: 0.01%
```

Run 3: Report of TCP Vegas — Data Link

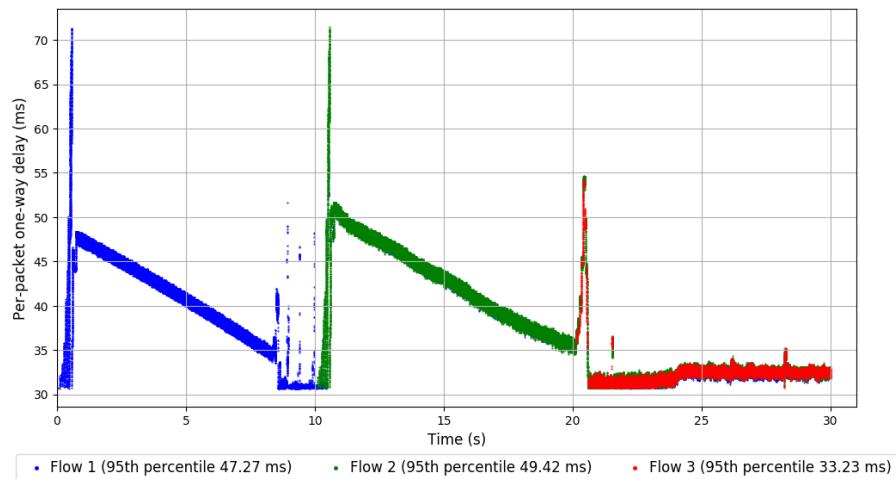
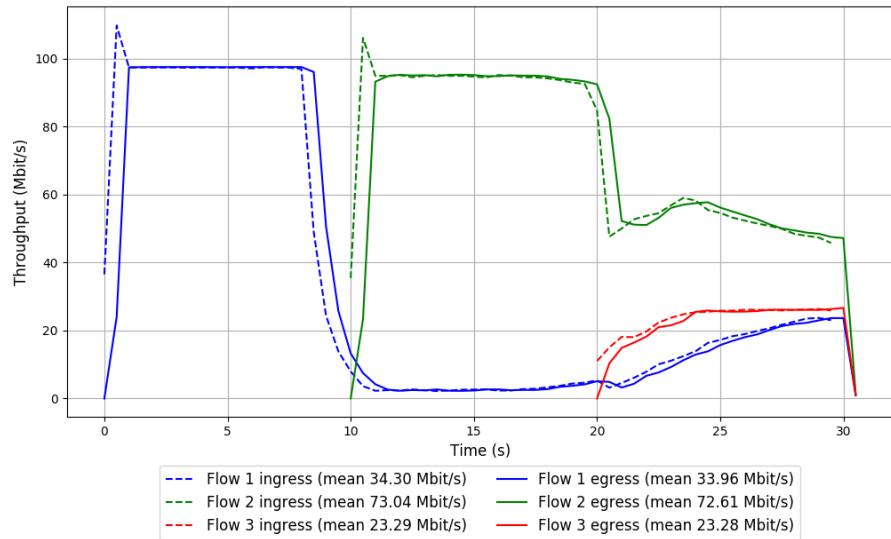


Run 4: Statistics of TCP Vegas

```
Start at: 2018-07-03 19:36:25
End at: 2018-07-03 19:36:55
Local clock offset: -1.575 ms
Remote clock offset: 8.663 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.06 Mbit/s
95th percentile per-packet one-way delay: 48.469 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 33.96 Mbit/s
95th percentile per-packet one-way delay: 47.269 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 72.61 Mbit/s
95th percentile per-packet one-way delay: 49.416 ms
Loss rate: 0.58%
-- Flow 3:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 33.235 ms
Loss rate: 0.11%
```

Run 4: Report of TCP Vegas — Data Link

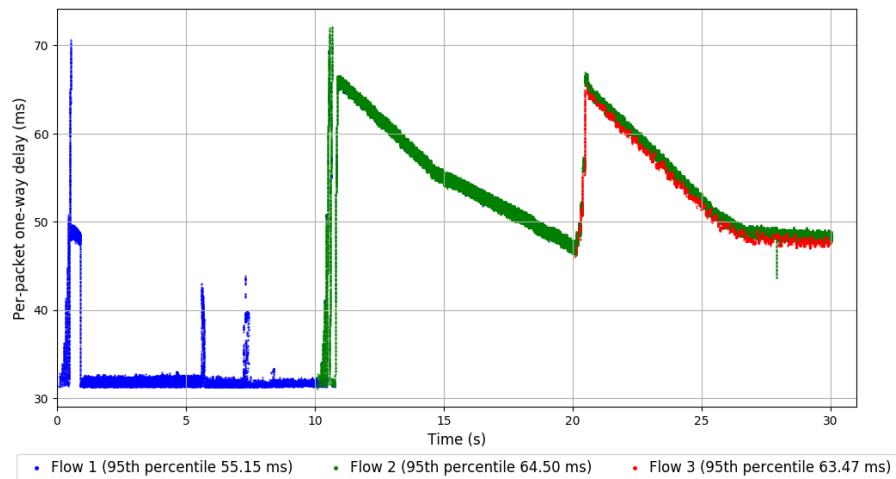
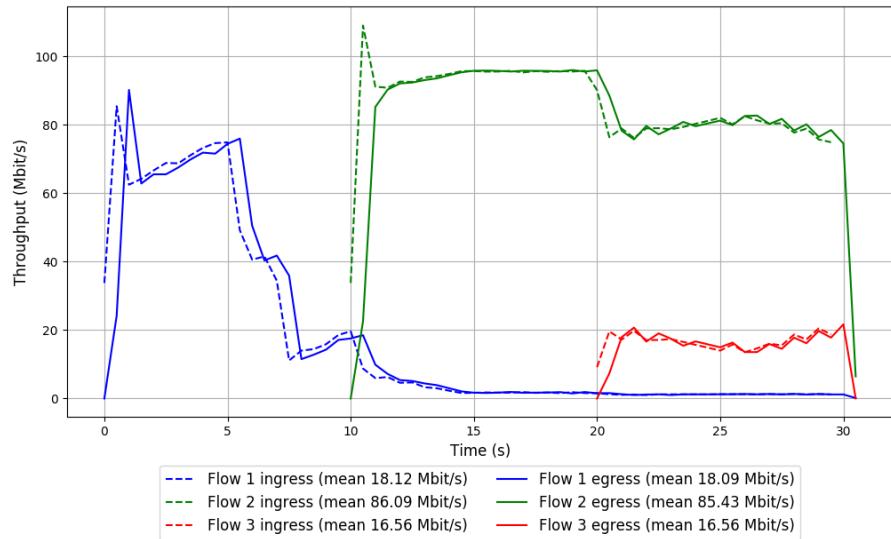


Run 5: Statistics of TCP Vegas

```
Start at: 2018-07-03 19:59:13
End at: 2018-07-03 19:59:43
Local clock offset: 0.935 ms
Remote clock offset: 11.606 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.51 Mbit/s
95th percentile per-packet one-way delay: 64.052 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 18.09 Mbit/s
95th percentile per-packet one-way delay: 55.147 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 64.497 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 16.56 Mbit/s
95th percentile per-packet one-way delay: 63.470 ms
Loss rate: 0.00%
```

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 6: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 7: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 8: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 9: Report of TCP Vegas — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vegas

Run 10: Report of TCP Vegas — Data Link

Figure is missing

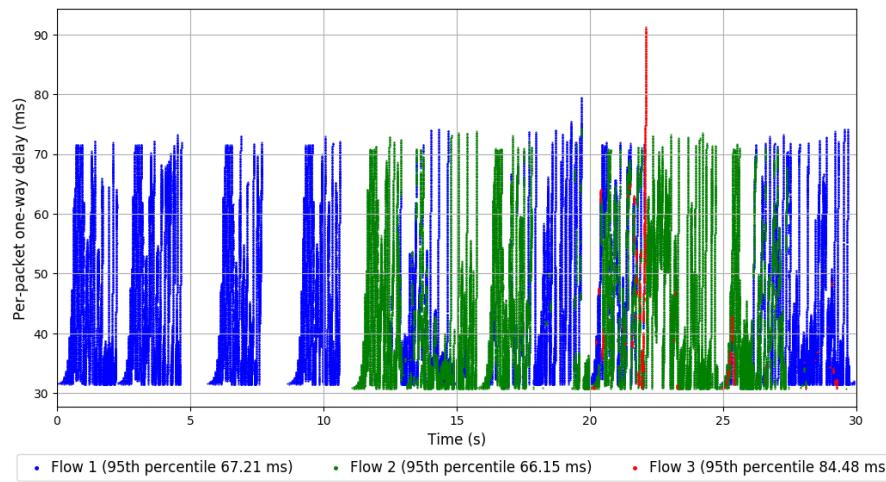
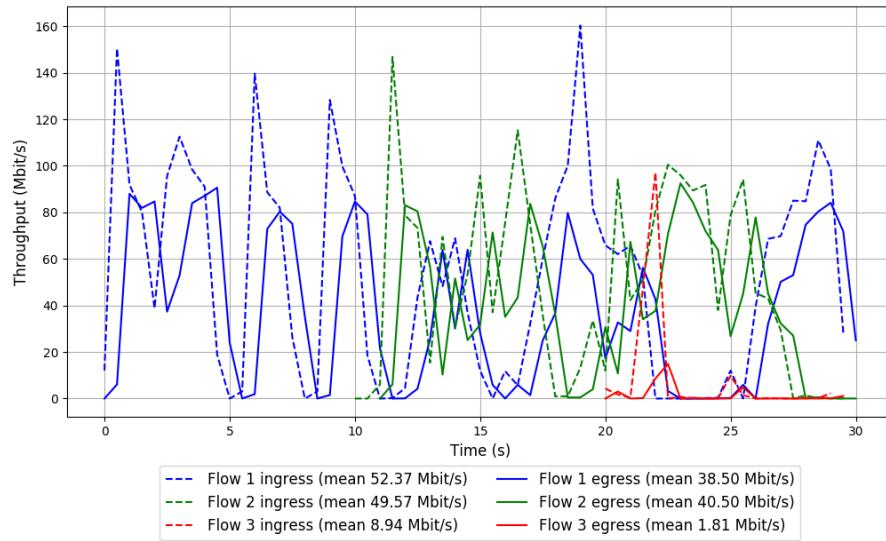
Figure is missing

Run 1: Statistics of Verus

```
Start at: 2018-07-03 18:20:04
End at: 2018-07-03 18:20:34
Local clock offset: -2.475 ms
Remote clock offset: -2.055 ms

# Below is generated by plot.py at 2018-07-03 23:01:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.22 Mbit/s
95th percentile per-packet one-way delay: 66.895 ms
Loss rate: 26.77%
-- Flow 1:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 67.214 ms
Loss rate: 26.49%
-- Flow 2:
Average throughput: 40.50 Mbit/s
95th percentile per-packet one-way delay: 66.149 ms
Loss rate: 22.70%
-- Flow 3:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 84.481 ms
Loss rate: 79.88%
```

Run 1: Report of Verus — Data Link

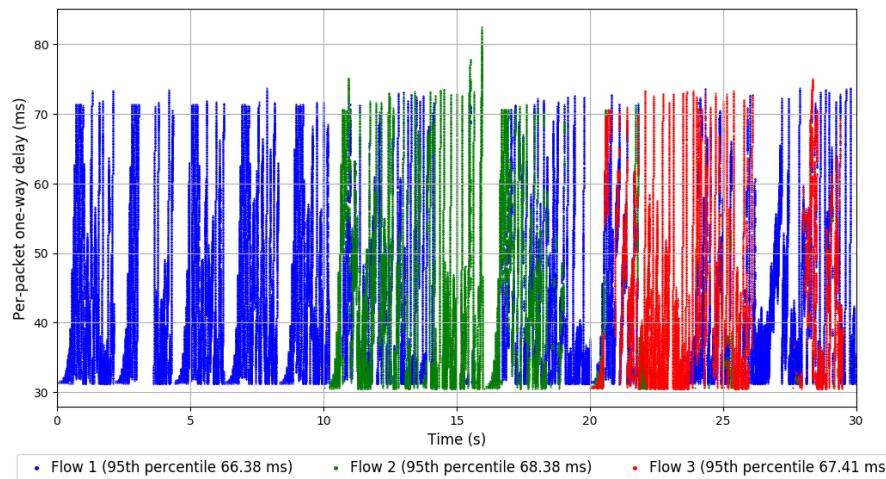
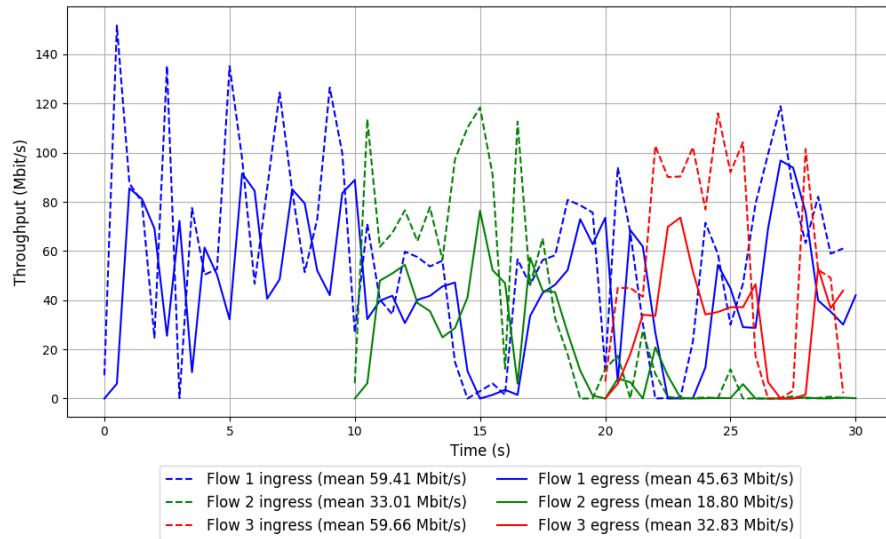


Run 2: Statistics of Verus

```
Start at: 2018-07-03 18:42:51
End at: 2018-07-03 18:43:21
Local clock offset: -2.957 ms
Remote clock offset: -1.976 ms

# Below is generated by plot.py at 2018-07-03 23:01:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 68.46 Mbit/s
95th percentile per-packet one-way delay: 66.949 ms
Loss rate: 31.79%
-- Flow 1:
Average throughput: 45.63 Mbit/s
95th percentile per-packet one-way delay: 66.381 ms
Loss rate: 23.21%
-- Flow 2:
Average throughput: 18.80 Mbit/s
95th percentile per-packet one-way delay: 68.382 ms
Loss rate: 43.03%
-- Flow 3:
Average throughput: 32.83 Mbit/s
95th percentile per-packet one-way delay: 67.411 ms
Loss rate: 45.63%
```

Run 2: Report of Verus — Data Link

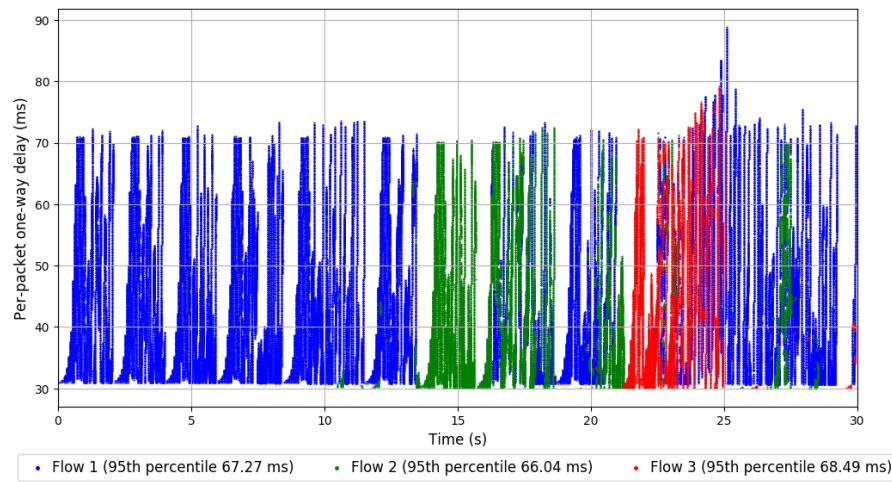
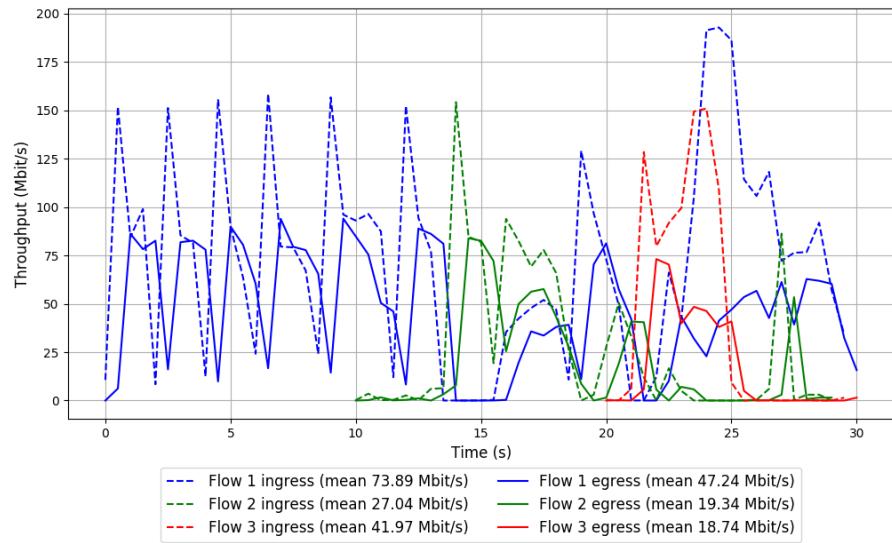


Run 3: Statistics of Verus

```
Start at: 2018-07-03 19:05:35
End at: 2018-07-03 19:06:05
Local clock offset: -2.836 ms
Remote clock offset: 0.821 ms

# Below is generated by plot.py at 2018-07-03 23:02:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.16 Mbit/s
95th percentile per-packet one-way delay: 67.154 ms
Loss rate: 37.79%
-- Flow 1:
Average throughput: 47.24 Mbit/s
95th percentile per-packet one-way delay: 67.266 ms
Loss rate: 36.03%
-- Flow 2:
Average throughput: 19.34 Mbit/s
95th percentile per-packet one-way delay: 66.037 ms
Loss rate: 31.26%
-- Flow 3:
Average throughput: 18.74 Mbit/s
95th percentile per-packet one-way delay: 68.486 ms
Loss rate: 55.30%
```

Run 3: Report of Verus — Data Link

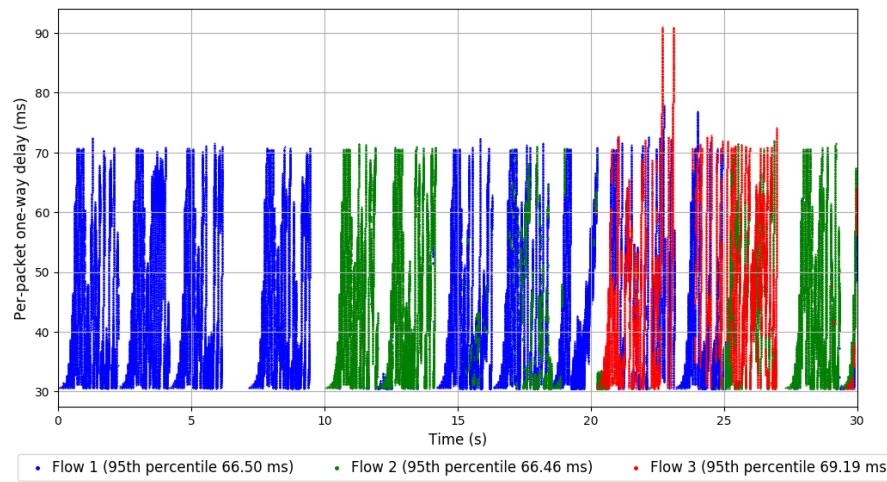
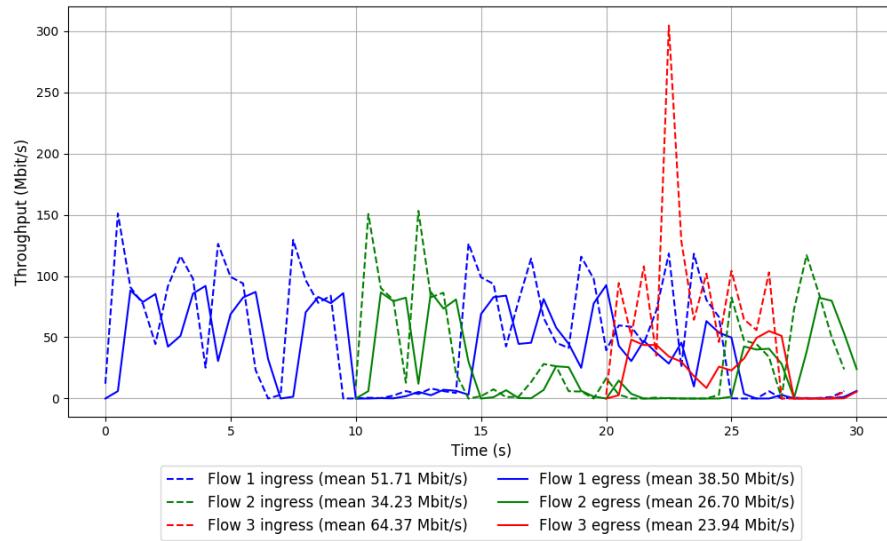


Run 4: Statistics of Verus

```
Start at: 2018-07-03 19:28:20
End at: 2018-07-03 19:28:50
Local clock offset: -2.585 ms
Remote clock offset: 7.554 ms

# Below is generated by plot.py at 2018-07-03 23:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.12 Mbit/s
95th percentile per-packet one-way delay: 66.854 ms
Loss rate: 32.90%
-- Flow 1:
Average throughput: 38.50 Mbit/s
95th percentile per-packet one-way delay: 66.500 ms
Loss rate: 25.47%
-- Flow 2:
Average throughput: 26.70 Mbit/s
95th percentile per-packet one-way delay: 66.460 ms
Loss rate: 21.87%
-- Flow 3:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 69.194 ms
Loss rate: 62.80%
```

Run 4: Report of Verus — Data Link

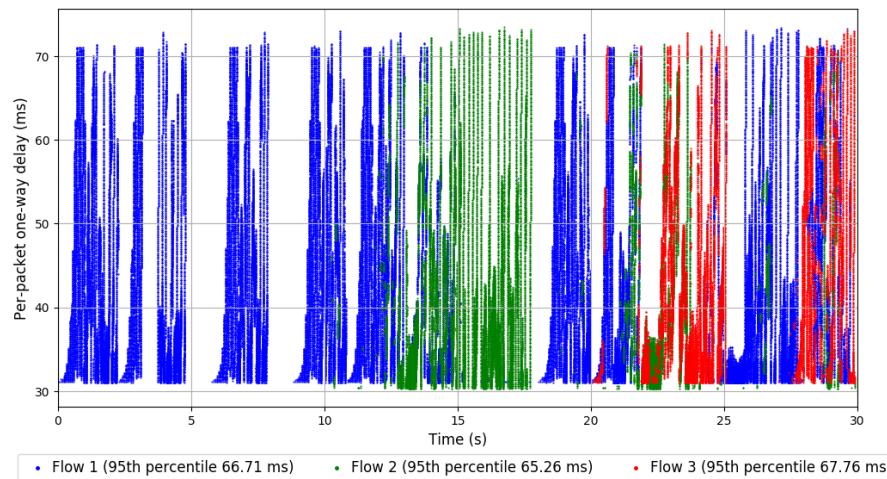
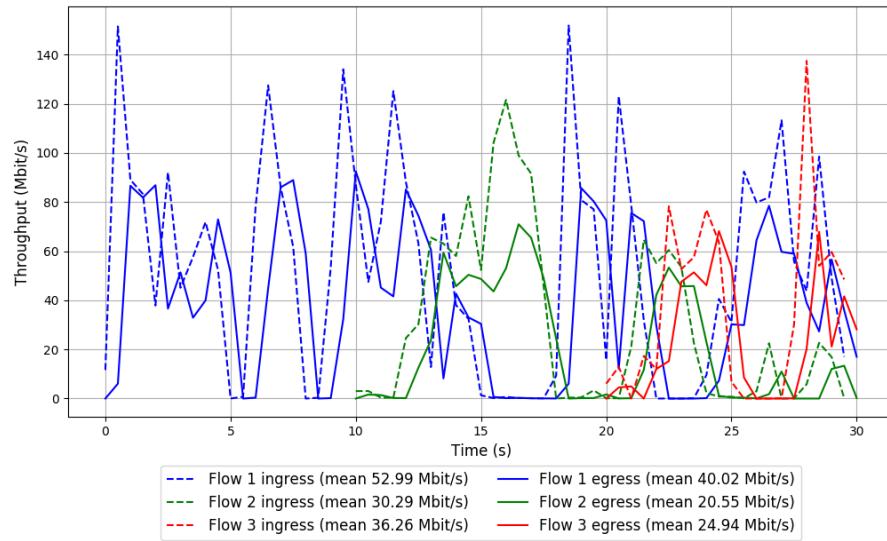


Run 5: Statistics of Verus

```
Start at: 2018-07-03 19:51:10
End at: 2018-07-03 19:51:40
Local clock offset: 0.539 ms
Remote clock offset: 10.209 ms

# Below is generated by plot.py at 2018-07-03 23:02:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.84 Mbit/s
95th percentile per-packet one-way delay: 66.613 ms
Loss rate: 27.21%
-- Flow 1:
Average throughput: 40.02 Mbit/s
95th percentile per-packet one-way delay: 66.714 ms
Loss rate: 24.39%
-- Flow 2:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 65.263 ms
Loss rate: 32.25%
-- Flow 3:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 67.761 ms
Loss rate: 31.21%
```

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 6: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 8: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 9: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of Verus

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/verus

Run 10: Report of Verus — Data Link

Figure is missing

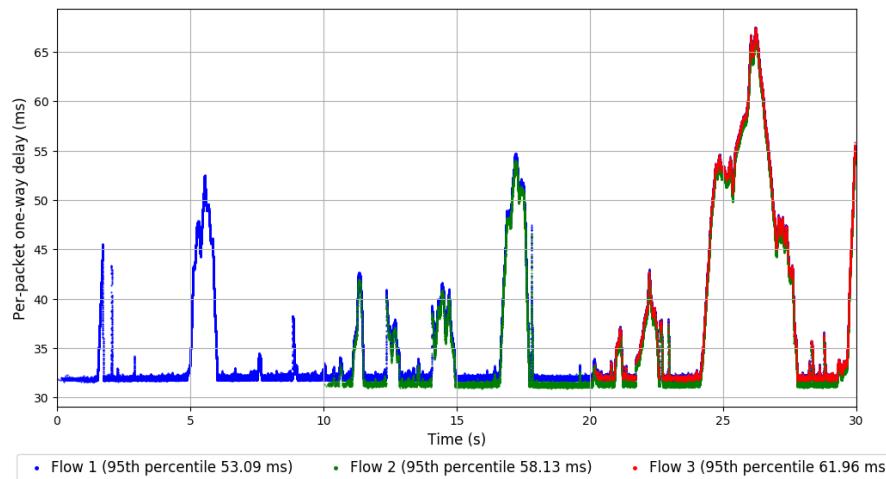
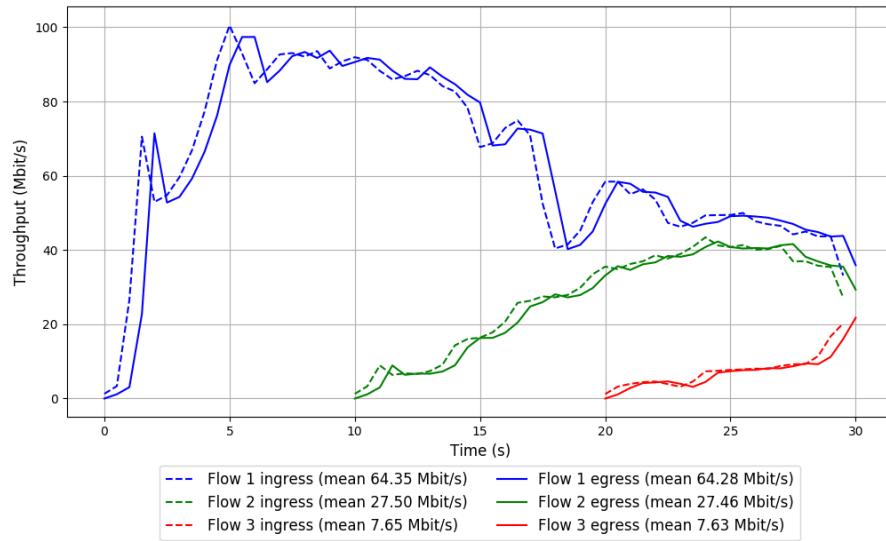
Figure is missing

Run 1: Statistics of PCC-Vivace

```
Start at: 2018-07-03 18:30:44
End at: 2018-07-03 18:31:14
Local clock offset: -3.068 ms
Remote clock offset: -1.721 ms

# Below is generated by plot.py at 2018-07-03 23:02:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 54.437 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 64.28 Mbit/s
95th percentile per-packet one-way delay: 53.090 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 58.129 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 61.964 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Vivace — Data Link

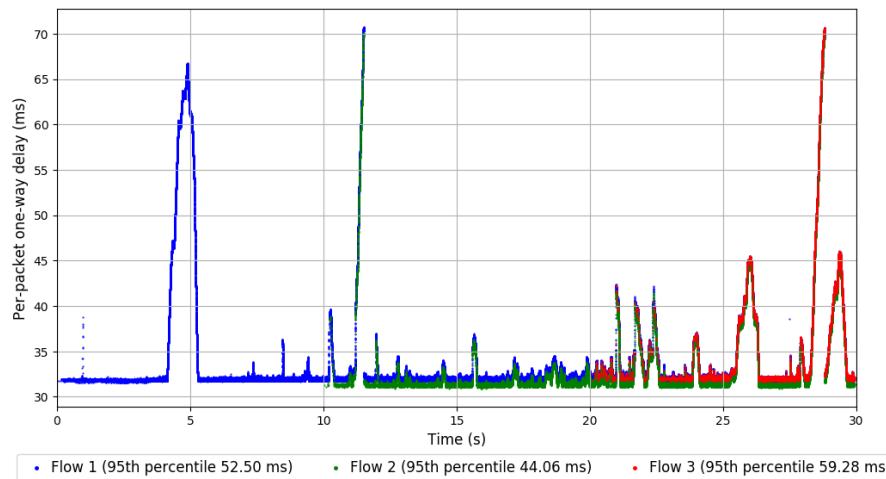
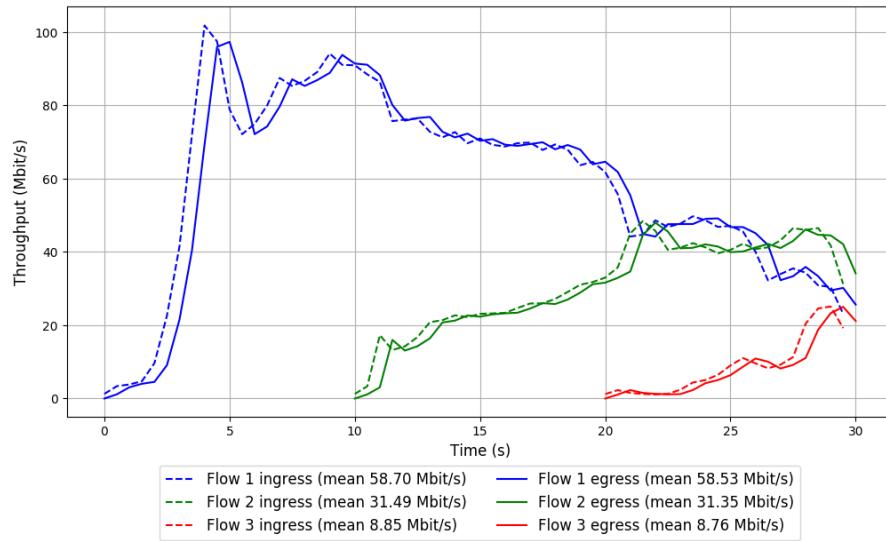


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-07-03 18:53:30
End at: 2018-07-03 18:54:00
Local clock offset: -2.93 ms
Remote clock offset: -1.317 ms

# Below is generated by plot.py at 2018-07-03 23:02:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 82.27 Mbit/s
95th percentile per-packet one-way delay: 48.840 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 58.53 Mbit/s
95th percentile per-packet one-way delay: 52.497 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 31.35 Mbit/s
95th percentile per-packet one-way delay: 44.059 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 8.76 Mbit/s
95th percentile per-packet one-way delay: 59.278 ms
Loss rate: 1.13%
```

Run 2: Report of PCC-Vivace — Data Link

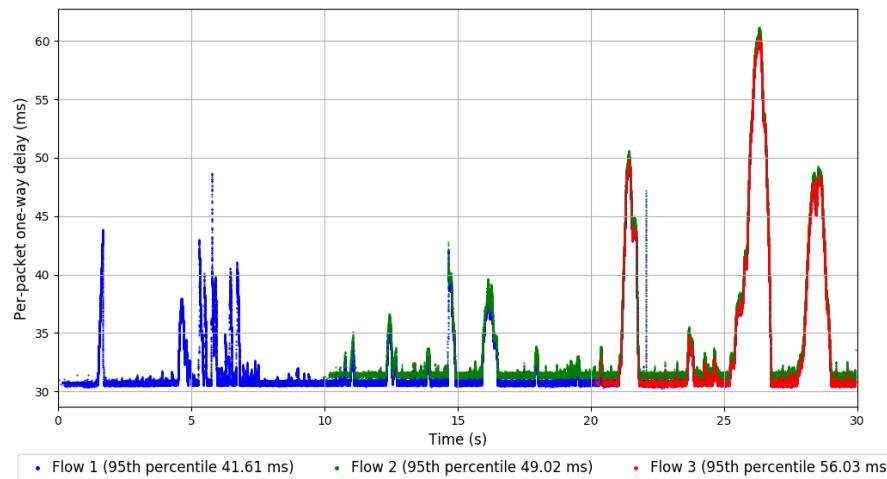
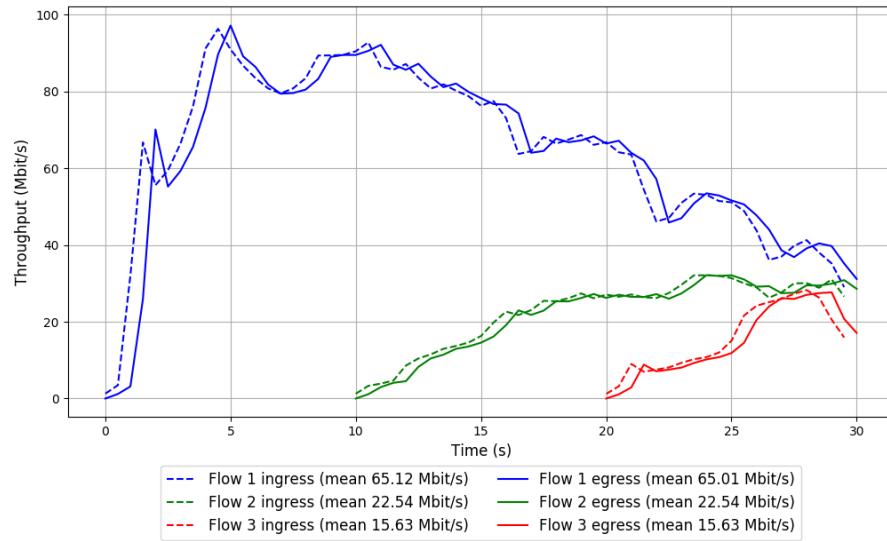


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-07-03 19:16:14
End at: 2018-07-03 19:16:44
Local clock offset: -2.638 ms
Remote clock offset: 5.331 ms

# Below is generated by plot.py at 2018-07-03 23:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.16 Mbit/s
95th percentile per-packet one-way delay: 46.180 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 65.01 Mbit/s
95th percentile per-packet one-way delay: 41.610 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 22.54 Mbit/s
95th percentile per-packet one-way delay: 49.020 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 15.63 Mbit/s
95th percentile per-packet one-way delay: 56.033 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

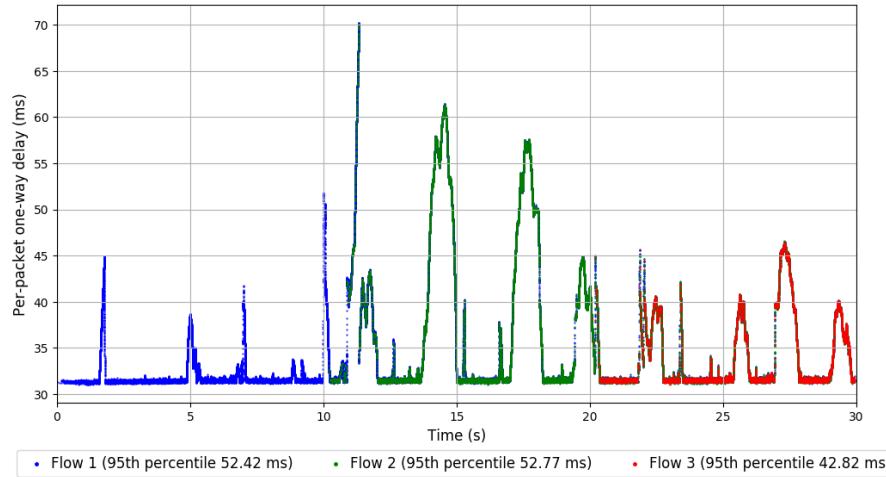
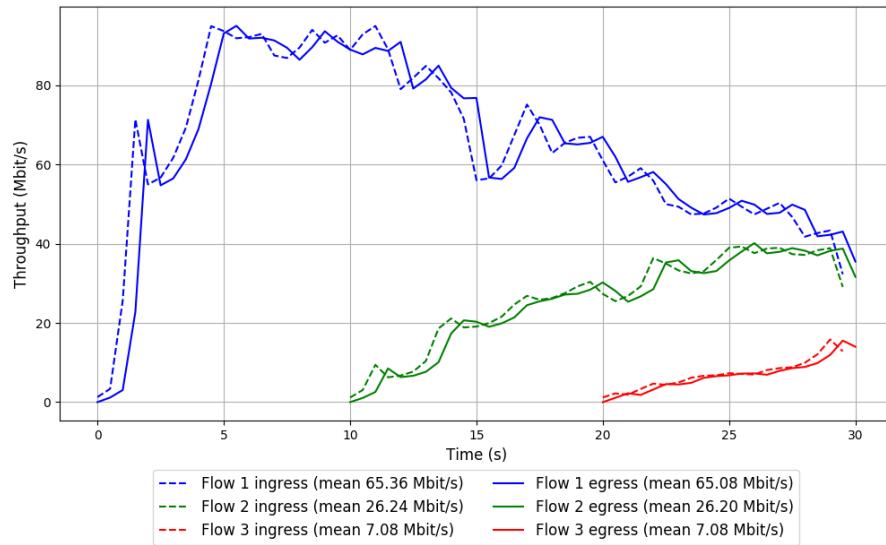


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-07-03 19:39:02
End at: 2018-07-03 19:39:32
Local clock offset: -0.93 ms
Remote clock offset: 8.952 ms

# Below is generated by plot.py at 2018-07-03 23:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 84.83 Mbit/s
95th percentile per-packet one-way delay: 52.262 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 65.08 Mbit/s
95th percentile per-packet one-way delay: 52.418 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 26.20 Mbit/s
95th percentile per-packet one-way delay: 52.766 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 7.08 Mbit/s
95th percentile per-packet one-way delay: 42.822 ms
Loss rate: 0.04%
```

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-03 20:01:48

End at: 2018-07-03 20:02:18

Local clock offset: 1.153 ms

Remote clock offset: 12.165 ms

Run 5: Report of PCC-Vivace — Data Link

Figure is missing

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Run 6: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vivac

Run 6: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vivac

Run 7: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vivac

Run 8: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vivac

Run 9: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/vivac

Run 10: Report of PCC-Vivace — Data Link

Figure is missing

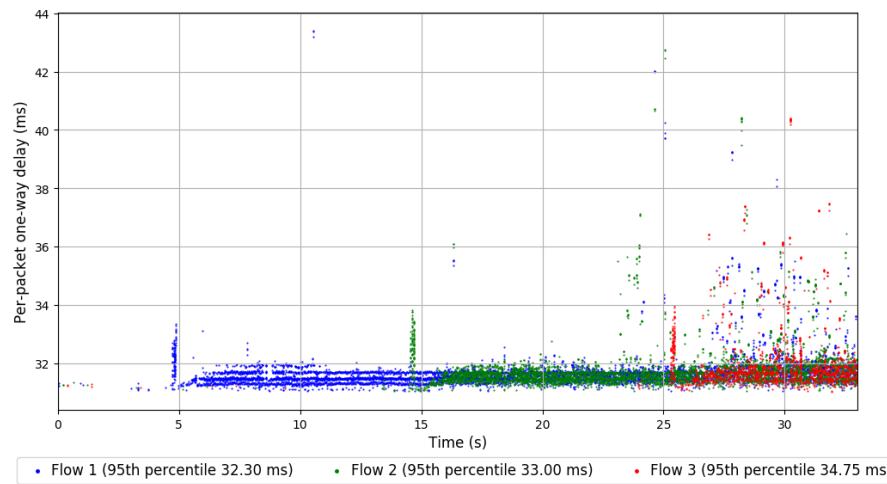
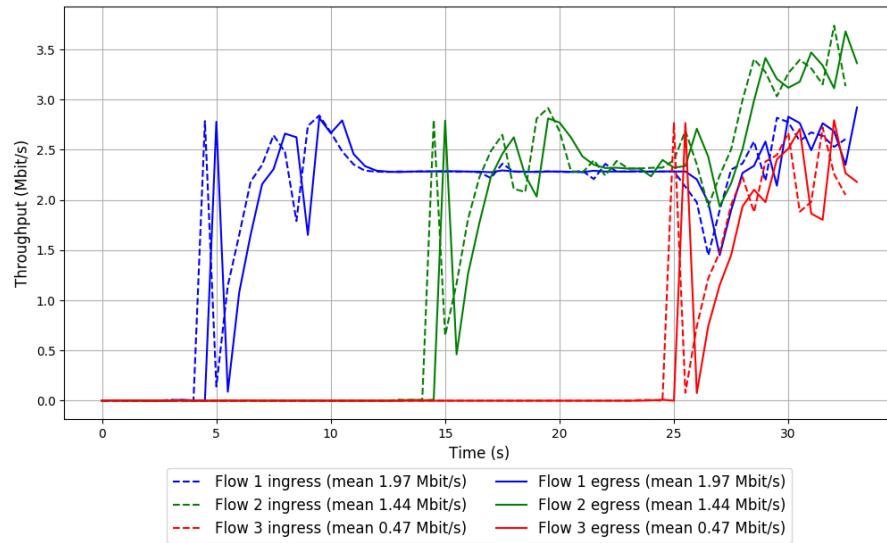
Figure is missing

Run 1: Statistics of WebRTC media

```
Start at: 2018-07-03 18:24:08
End at: 2018-07-03 18:24:38
Local clock offset: -2.751 ms
Remote clock offset: -2.324 ms

# Below is generated by plot.py at 2018-07-03 23:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.86 Mbit/s
95th percentile per-packet one-way delay: 32.930 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 32.305 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 32.999 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 34.748 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

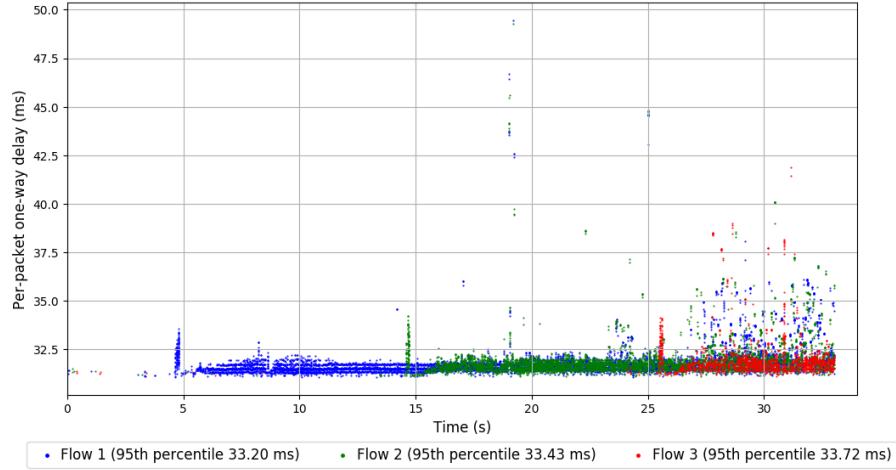
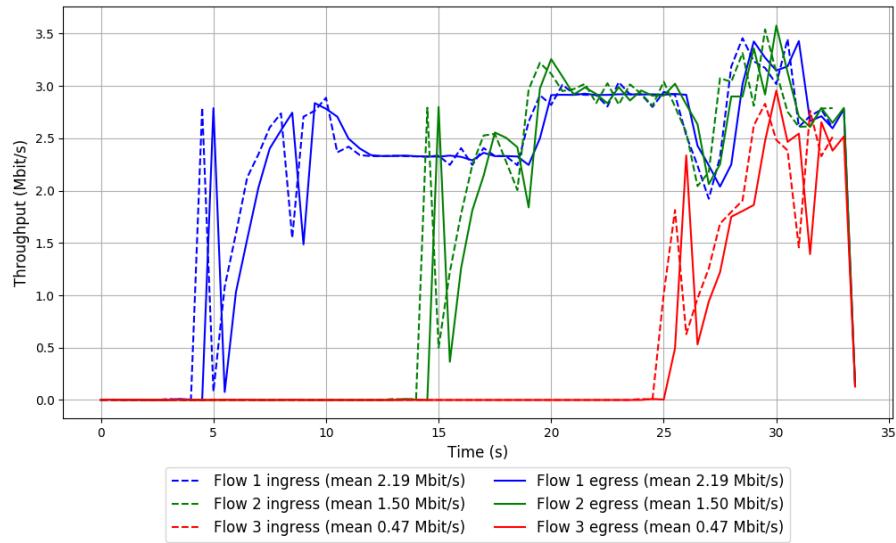


Run 2: Statistics of WebRTC media

```
Start at: 2018-07-03 18:46:56
End at: 2018-07-03 18:47:26
Local clock offset: -2.945 ms
Remote clock offset: -1.871 ms

# Below is generated by plot.py at 2018-07-03 23:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 33.332 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 33.202 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 33.428 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 33.718 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

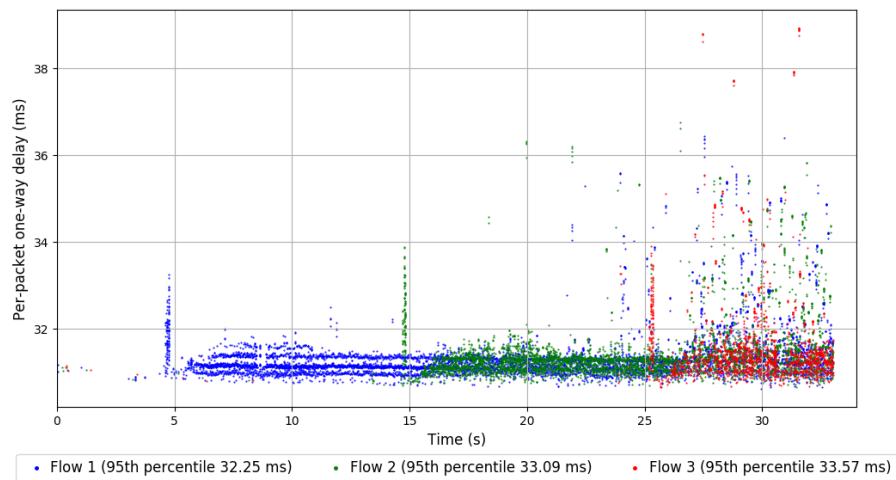
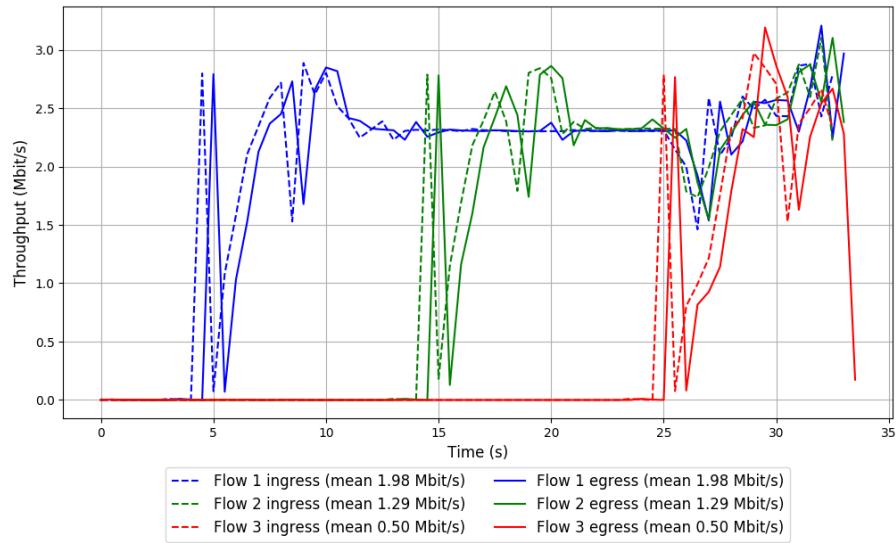


```
Run 3: Statistics of WebRTC media

Start at: 2018-07-03 19:09:39
End at: 2018-07-03 19:10:09
Local clock offset: -2.752 ms
Remote clock offset: 3.583 ms

# Below is generated by plot.py at 2018-07-03 23:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.76 Mbit/s
95th percentile per-packet one-way delay: 32.821 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 32.251 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 33.091 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 33.567 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

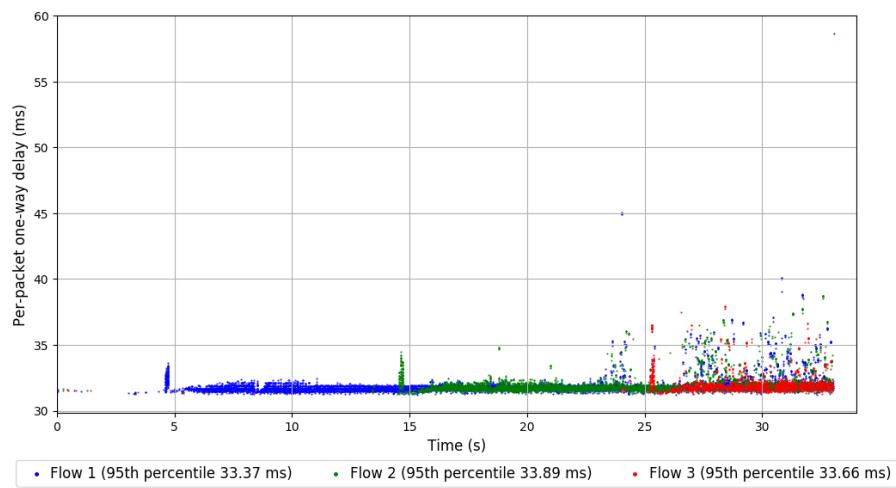
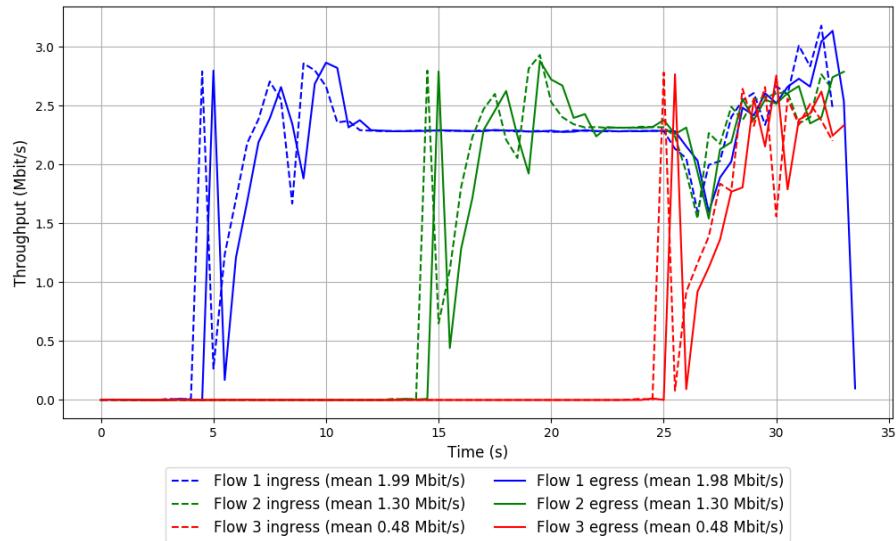


Run 4: Statistics of WebRTC media

```
Start at: 2018-07-03 19:32:25
End at: 2018-07-03 19:32:55
Local clock offset: -2.583 ms
Remote clock offset: 8.349 ms

# Below is generated by plot.py at 2018-07-03 23:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 33.649 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 33.374 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 33.888 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 33.655 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

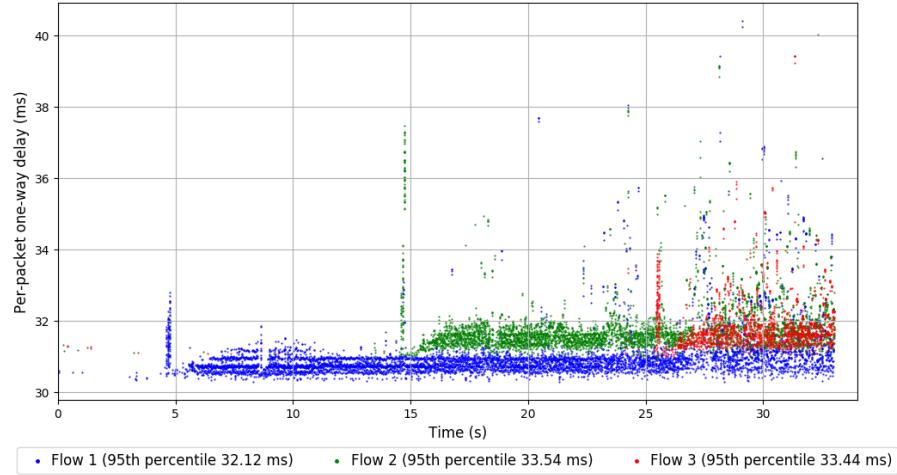
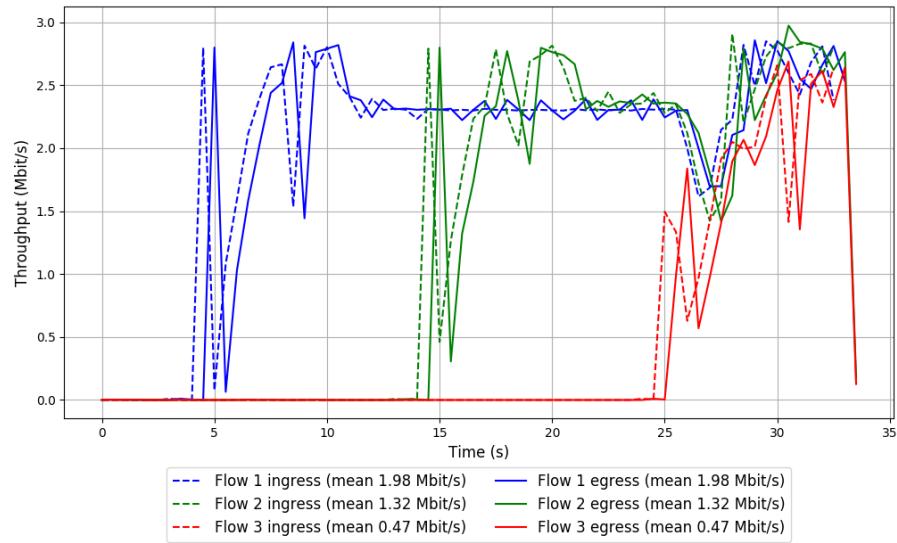


Run 5: Statistics of WebRTC media

```
Start at: 2018-07-03 19:55:14
End at: 2018-07-03 19:55:44
Local clock offset: 0.805 ms
Remote clock offset: 10.924 ms

# Below is generated by plot.py at 2018-07-03 23:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 32.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 32.119 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 33.544 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 33.441 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 6: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 7: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 8: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 9: Report of WebRTC media — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2018-07-03T18-17-AWS-California-2-to-Mexico-10-runs-3-flows/webrtc

Run 10: Report of WebRTC media — Data Link

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