

Pantheon Report

Generated at 2018-06-07 11:17:21 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

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

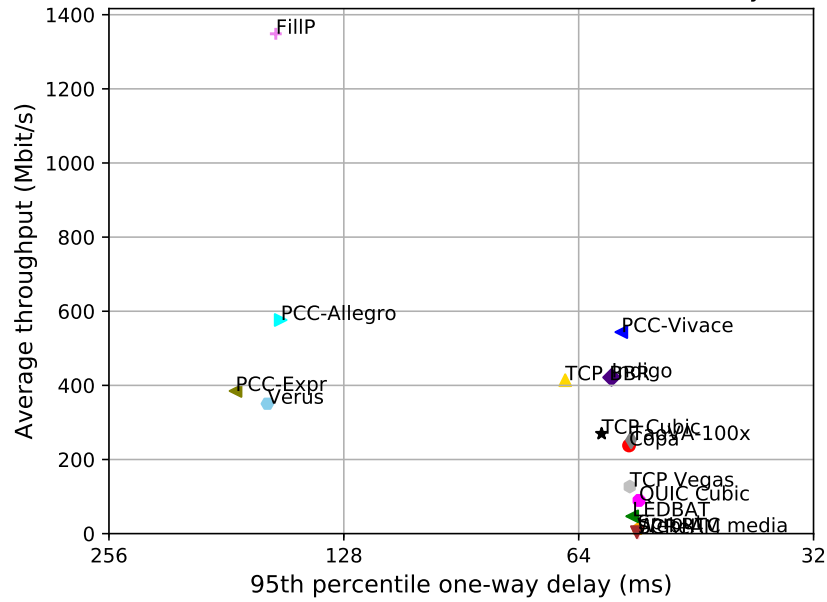
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

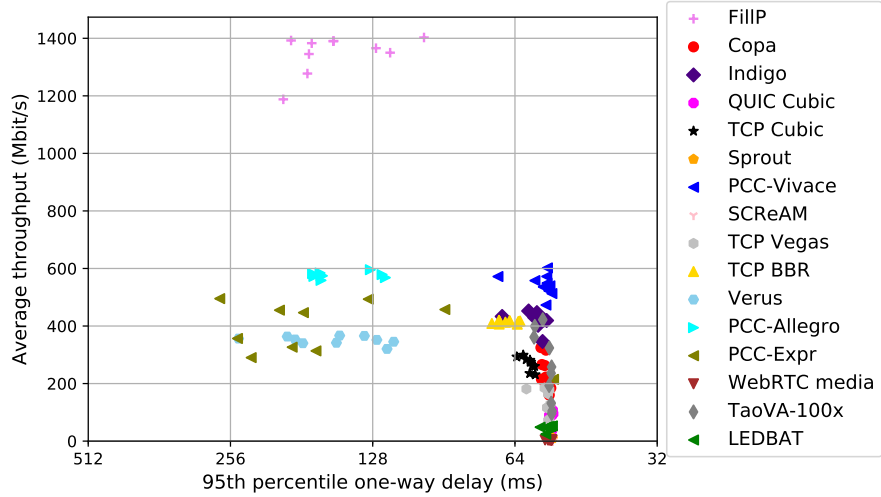
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



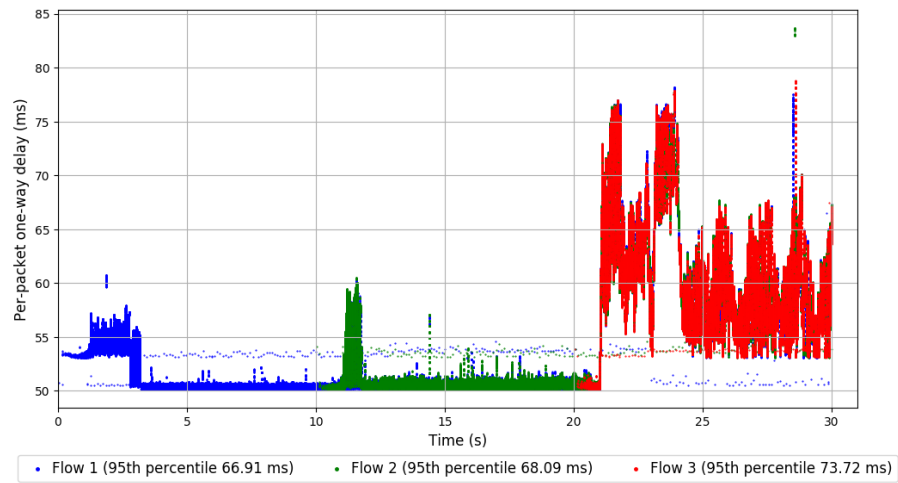
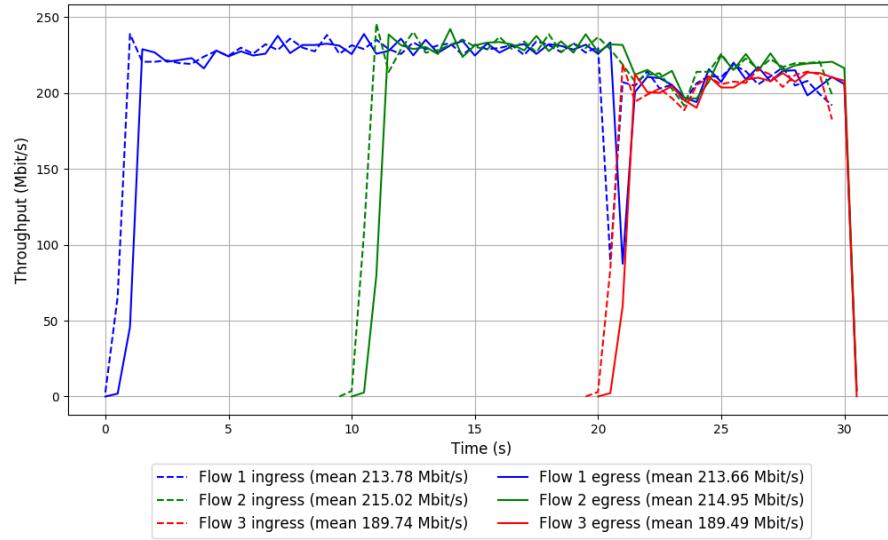
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	209.48	208.25	197.93	65.18	66.55	68.76	0.02	0.02	0.04
Copa	10	121.90	129.42	99.66	54.26	55.46	55.07	0.00	0.00	0.00
TCP Cubic	10	149.34	136.54	88.56	59.94	59.24	58.72	0.02	0.05	0.06
FillP	10	725.90	658.94	555.01	152.21	154.87	117.98	1.40	1.73	0.32
Indigo	10	222.92	216.71	169.41	57.01	58.12	59.88	0.00	0.00	0.01
LEDBAT	10	29.33	21.20	10.04	54.67	54.44	54.31	0.00	0.00	0.00
PCC-Allegro	10	531.46	48.97	37.57	154.09	154.05	145.96	0.84	0.71	0.81
PCC-Expr	10	216.56	212.46	81.70	134.27	154.99	109.06	1.95	4.33	1.52
QUIC Cubic	10	53.95	40.74	26.27	52.17	53.28	52.64	0.00	0.00	0.00
SCReAM	10	0.21	0.22	0.22	53.28	52.72	52.45	0.00	0.00	0.00
Sprout	10	6.28	5.63	5.83	53.77	53.71	53.72	0.00	0.00	0.00
TaoVA-100x	10	150.21	94.22	119.16	54.39	55.33	54.39	0.00	0.01	0.00
TCP Vegas	10	70.50	53.97	61.92	54.96	54.49	54.26	0.00	0.00	0.00
Verus	10	215.54	157.07	98.81	150.42	138.29	147.83	0.51	0.61	2.11
PCC-Vivace	10	323.13	279.53	105.03	55.17	61.70	56.09	0.00	0.00	0.00
WebRTC media	10	2.07	1.32	0.54	53.62	52.97	53.79	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-07 05:03:15
End at: 2018-06-07 05:03:45
Local clock offset: 0.084 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-06-07 09:15:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 420.03 Mbit/s
95th percentile per-packet one-way delay: 69.181 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 213.66 Mbit/s
95th percentile per-packet one-way delay: 66.912 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 214.95 Mbit/s
95th percentile per-packet one-way delay: 68.087 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 189.49 Mbit/s
95th percentile per-packet one-way delay: 73.722 ms
Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-07 05:26:18

End at: 2018-06-07 05:26:48

Local clock offset: -0.205 ms

Remote clock offset: -0.37 ms

Below is generated by plot.py at 2018-06-07 09:15:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 419.19 Mbit/s

95th percentile per-packet one-way delay: 65.685 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 209.83 Mbit/s

95th percentile per-packet one-way delay: 65.167 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 213.94 Mbit/s

95th percentile per-packet one-way delay: 65.469 ms

Loss rate: 0.00%

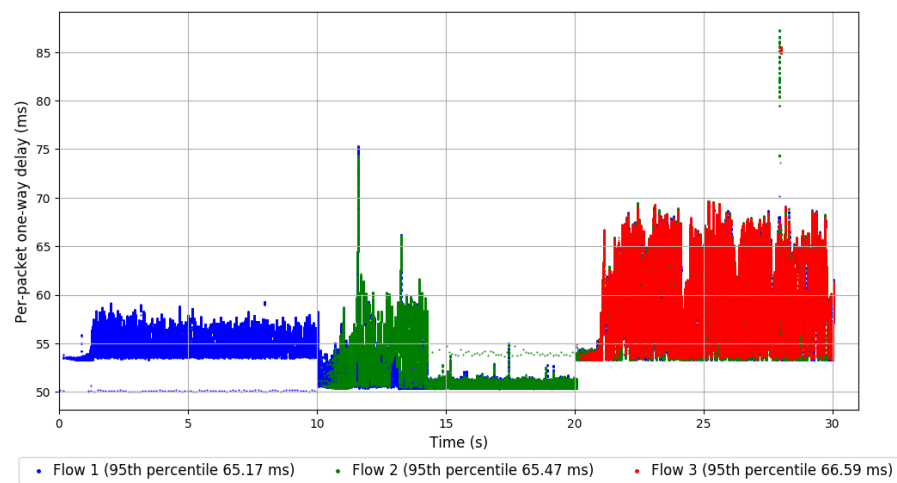
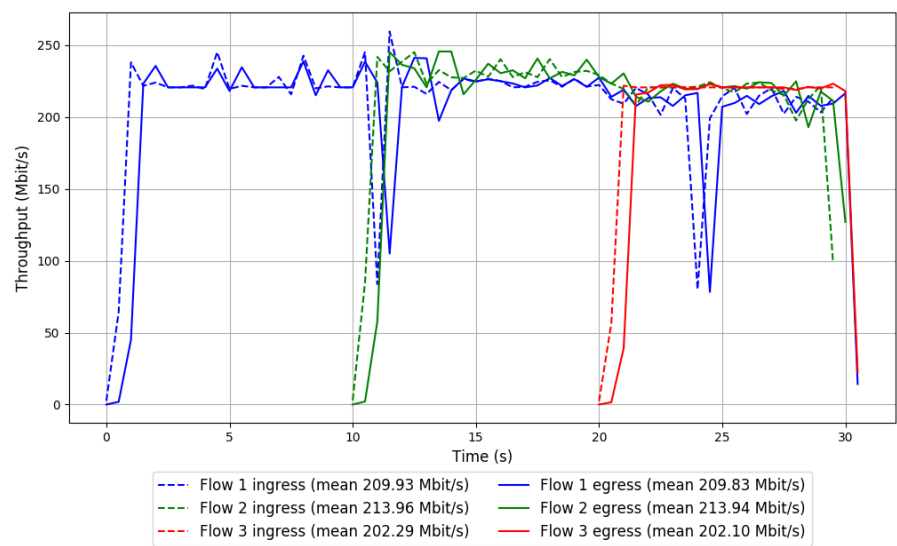
-- Flow 3:

Average throughput: 202.10 Mbit/s

95th percentile per-packet one-way delay: 66.593 ms

Loss rate: 0.05%

Run 2: Report of TCP BBR — Data Link

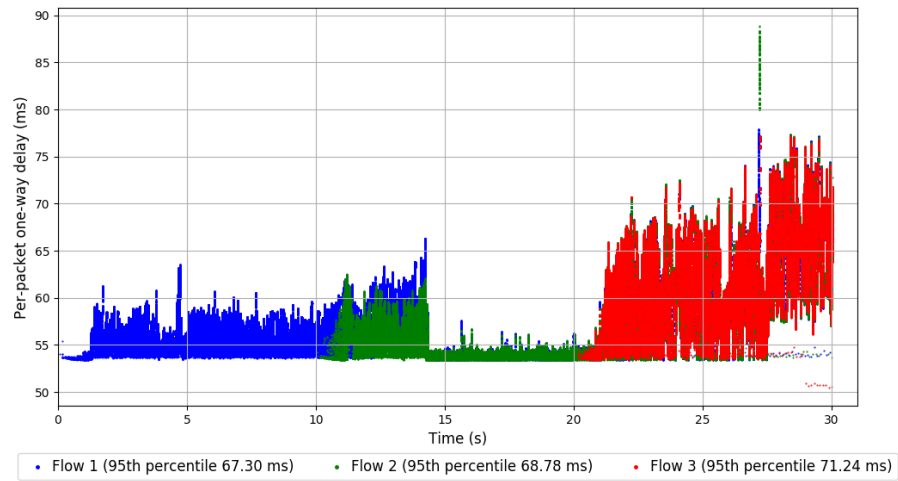
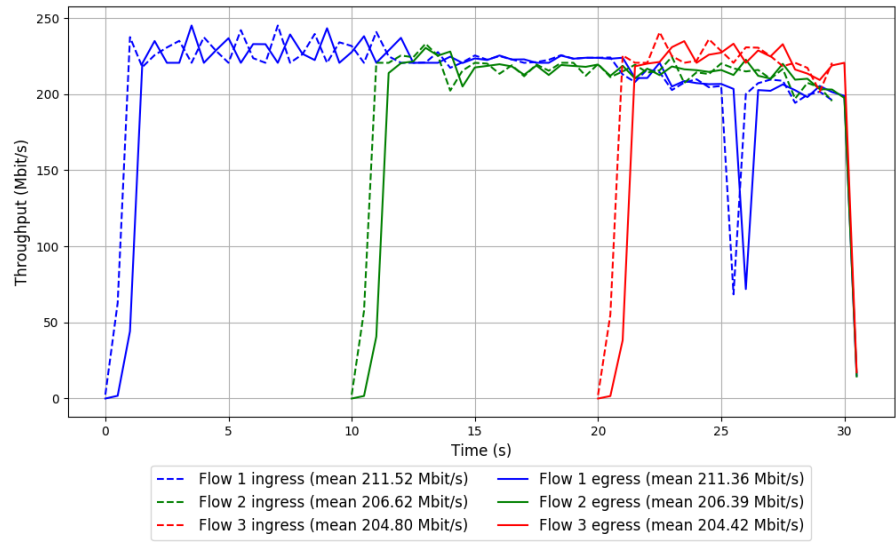


Run 3: Statistics of TCP BBR

Start at: 2018-06-07 05:49:09
End at: 2018-06-07 05:49:39
Local clock offset: -0.292 ms
Remote clock offset: -0.641 ms

Below is generated by plot.py at 2018-06-07 09:15:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 416.77 Mbit/s
95th percentile per-packet one-way delay: 68.973 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 211.36 Mbit/s
95th percentile per-packet one-way delay: 67.304 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 206.39 Mbit/s
95th percentile per-packet one-way delay: 68.784 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 204.42 Mbit/s
95th percentile per-packet one-way delay: 71.243 ms
Loss rate: 0.18%

Run 3: Report of TCP BBR — Data Link

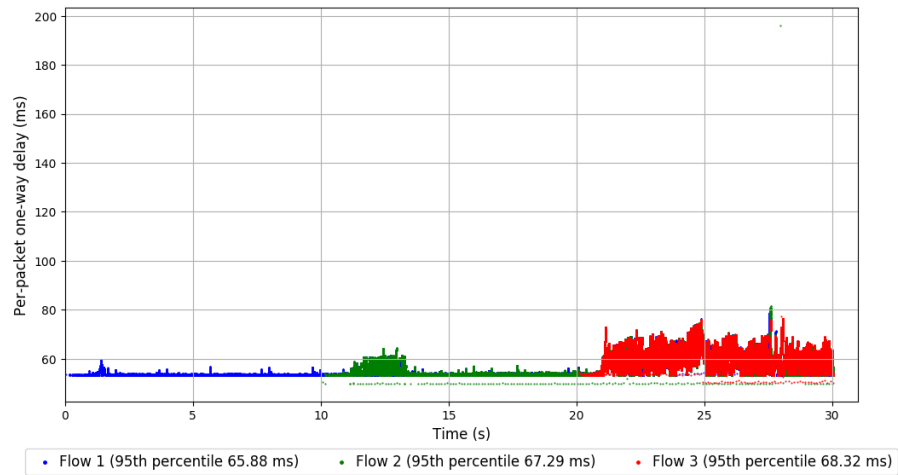
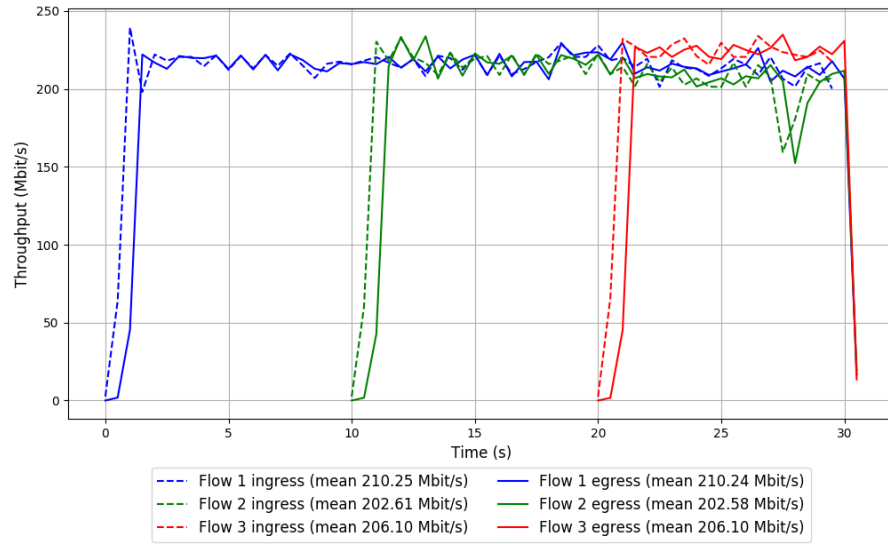


Run 4: Statistics of TCP BBR

Start at: 2018-06-07 06:12:13
End at: 2018-06-07 06:12:43
Local clock offset: 0.11 ms
Remote clock offset: -0.501 ms

Below is generated by plot.py at 2018-06-07 09:15:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 413.61 Mbit/s
95th percentile per-packet one-way delay: 67.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.24 Mbit/s
95th percentile per-packet one-way delay: 65.880 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.58 Mbit/s
95th percentile per-packet one-way delay: 67.288 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 206.10 Mbit/s
95th percentile per-packet one-way delay: 68.322 ms
Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link

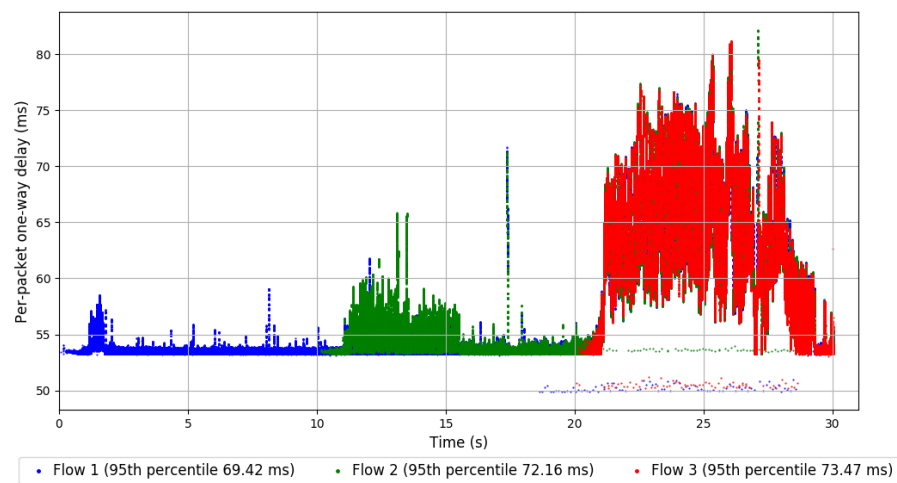
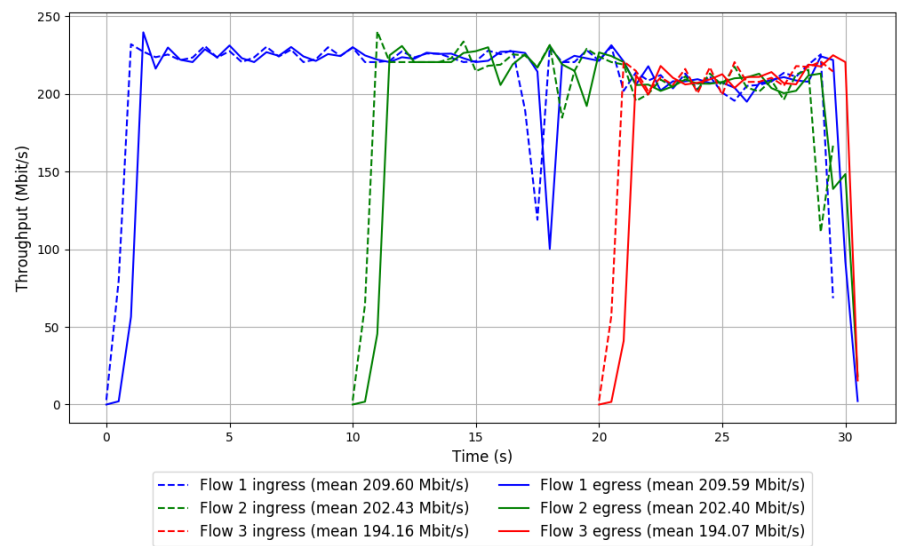


Run 5: Statistics of TCP BBR

Start at: 2018-06-07 06:34:45
End at: 2018-06-07 06:35:15
Local clock offset: -0.198 ms
Remote clock offset: -0.713 ms

Below is generated by plot.py at 2018-06-07 09:15:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 408.98 Mbit/s
95th percentile per-packet one-way delay: 71.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.59 Mbit/s
95th percentile per-packet one-way delay: 69.423 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 202.40 Mbit/s
95th percentile per-packet one-way delay: 72.157 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 194.07 Mbit/s
95th percentile per-packet one-way delay: 73.466 ms
Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-07 06:57:42

End at: 2018-06-07 06:58:12

Local clock offset: -0.04 ms

Remote clock offset: -0.17 ms

Below is generated by plot.py at 2018-06-07 09:15:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 416.00 Mbit/s

95th percentile per-packet one-way delay: 62.959 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 207.74 Mbit/s

95th percentile per-packet one-way delay: 62.035 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 215.09 Mbit/s

95th percentile per-packet one-way delay: 63.127 ms

Loss rate: 0.00%

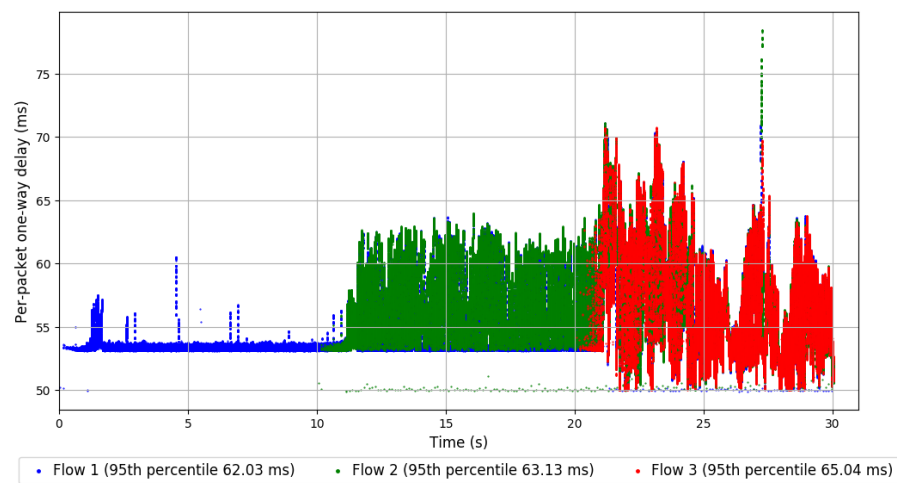
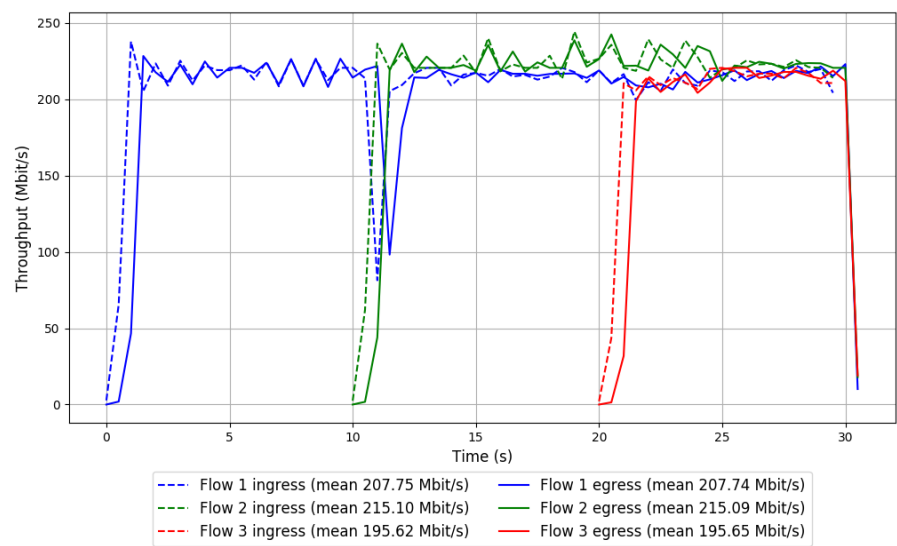
-- Flow 3:

Average throughput: 195.65 Mbit/s

95th percentile per-packet one-way delay: 65.036 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-07 07:20:20

End at: 2018-06-07 07:20:50

Local clock offset: -0.104 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-06-07 09:15:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 406.88 Mbit/s

95th percentile per-packet one-way delay: 69.121 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 208.61 Mbit/s

95th percentile per-packet one-way delay: 67.304 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 201.01 Mbit/s

95th percentile per-packet one-way delay: 69.372 ms

Loss rate: 0.03%

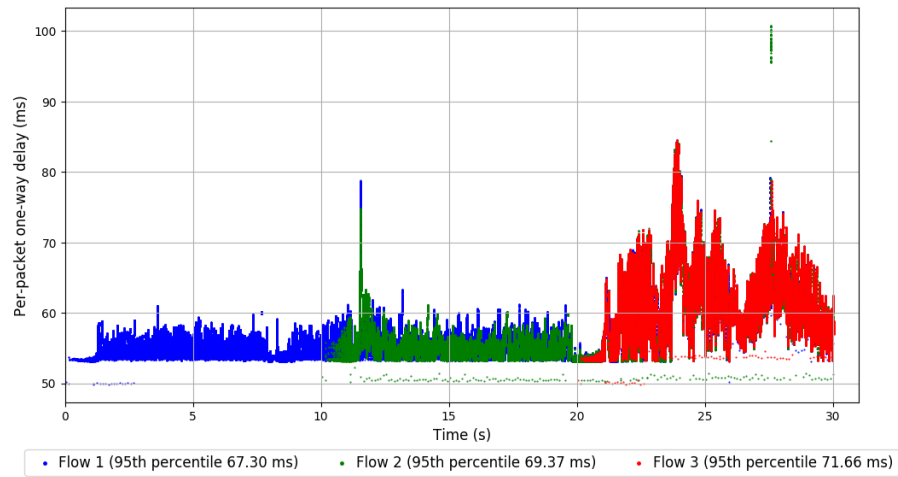
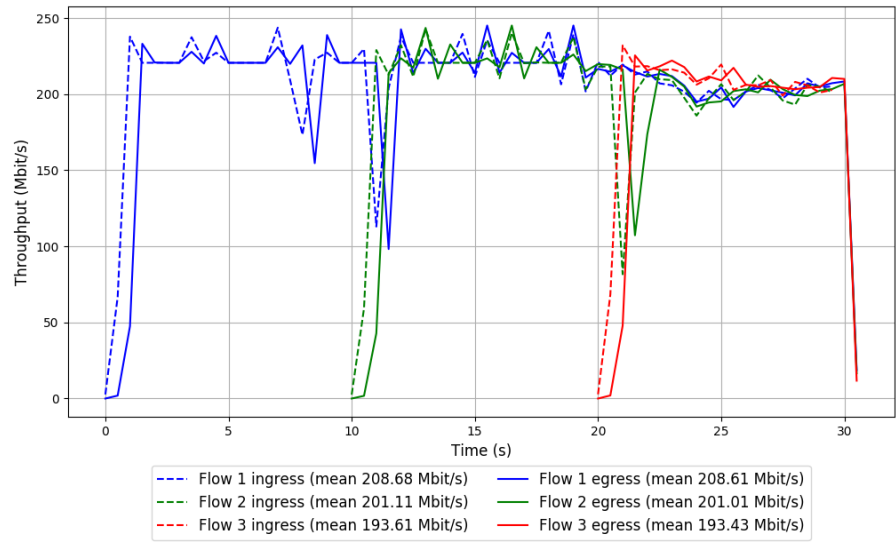
-- Flow 3:

Average throughput: 193.43 Mbit/s

95th percentile per-packet one-way delay: 71.655 ms

Loss rate: 0.06%

Run 7: Report of TCP BBR — Data Link

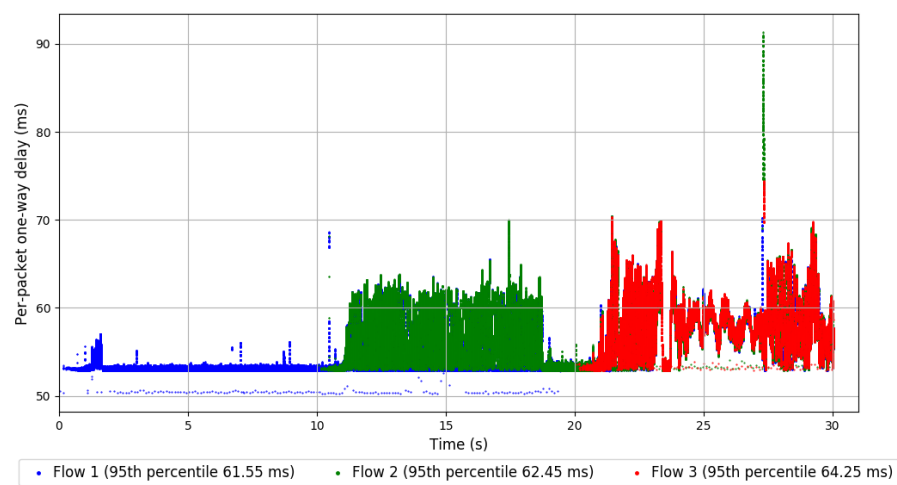
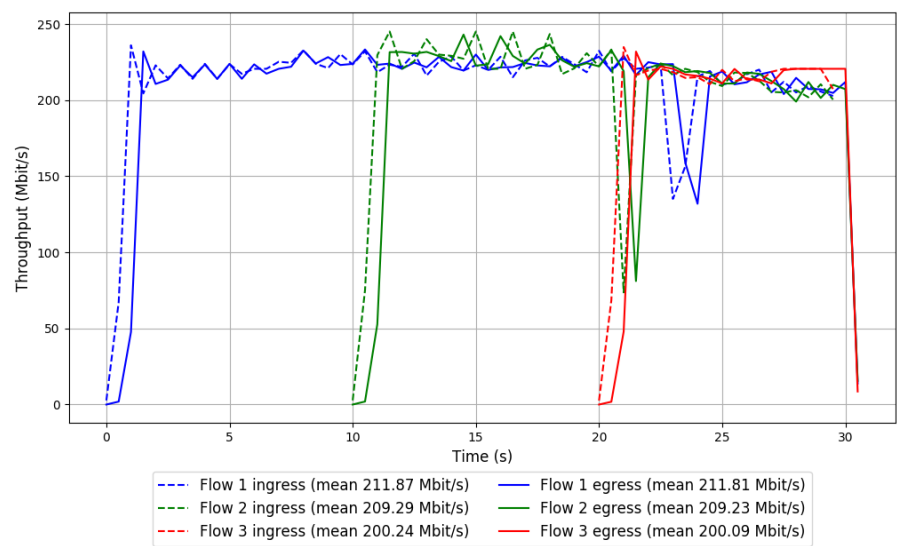


Run 8: Statistics of TCP BBR

Start at: 2018-06-07 07:43:44
End at: 2018-06-07 07:44:14
Local clock offset: -0.208 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-06-07 09:15:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 417.61 Mbit/s
95th percentile per-packet one-way delay: 62.425 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 211.81 Mbit/s
95th percentile per-packet one-way delay: 61.549 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 209.23 Mbit/s
95th percentile per-packet one-way delay: 62.454 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 200.09 Mbit/s
95th percentile per-packet one-way delay: 64.255 ms
Loss rate: 0.07%

Run 8: Report of TCP BBR — Data Link

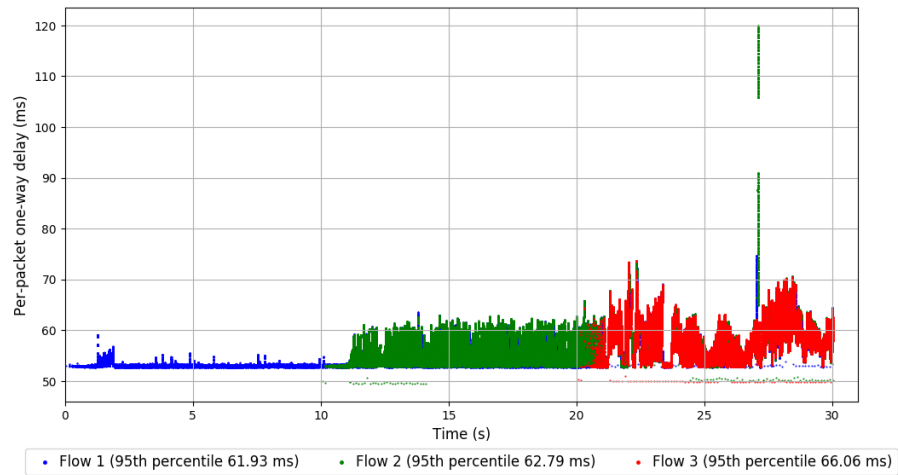
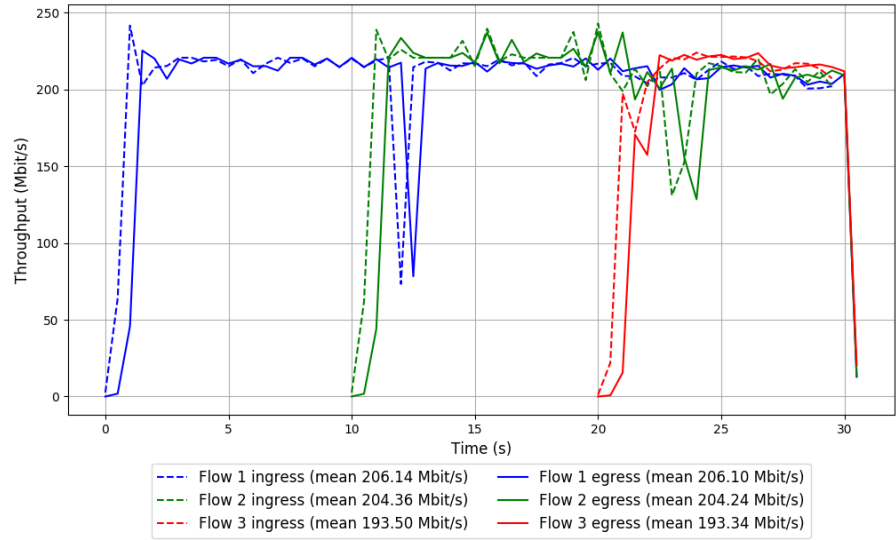


Run 9: Statistics of TCP BBR

Start at: 2018-06-07 08:06:39
End at: 2018-06-07 08:07:09
Local clock offset: 0.09 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2018-06-07 09:21:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 406.47 Mbit/s
95th percentile per-packet one-way delay: 63.279 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 206.10 Mbit/s
95th percentile per-packet one-way delay: 61.934 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 204.24 Mbit/s
95th percentile per-packet one-way delay: 62.791 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 193.34 Mbit/s
95th percentile per-packet one-way delay: 66.063 ms
Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link

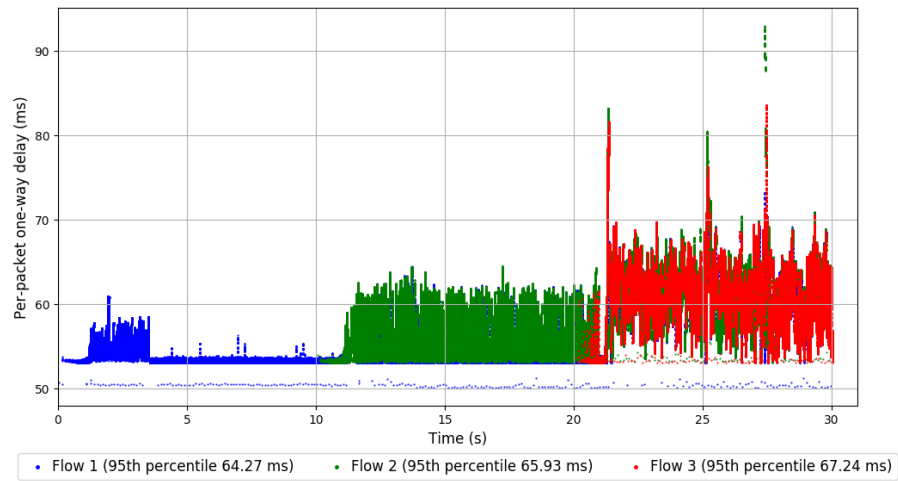
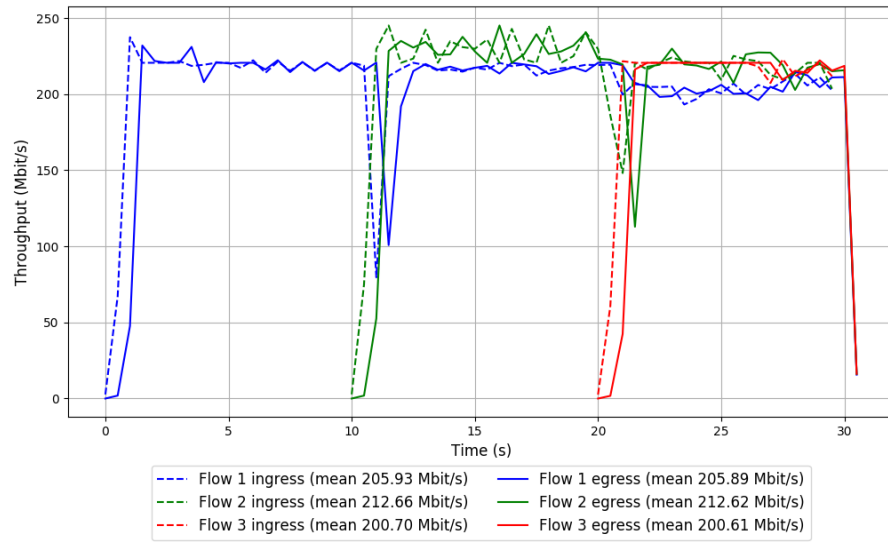


Run 10: Statistics of TCP BBR

Start at: 2018-06-07 08:29:19
End at: 2018-06-07 08:29:49
Local clock offset: -0.318 ms
Remote clock offset: -0.345 ms

Below is generated by plot.py at 2018-06-07 09:21:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 414.17 Mbit/s
95th percentile per-packet one-way delay: 65.657 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 205.89 Mbit/s
95th percentile per-packet one-way delay: 64.273 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 212.62 Mbit/s
95th percentile per-packet one-way delay: 65.932 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 200.61 Mbit/s
95th percentile per-packet one-way delay: 67.243 ms
Loss rate: 0.04%

Run 10: Report of TCP BBR — Data Link

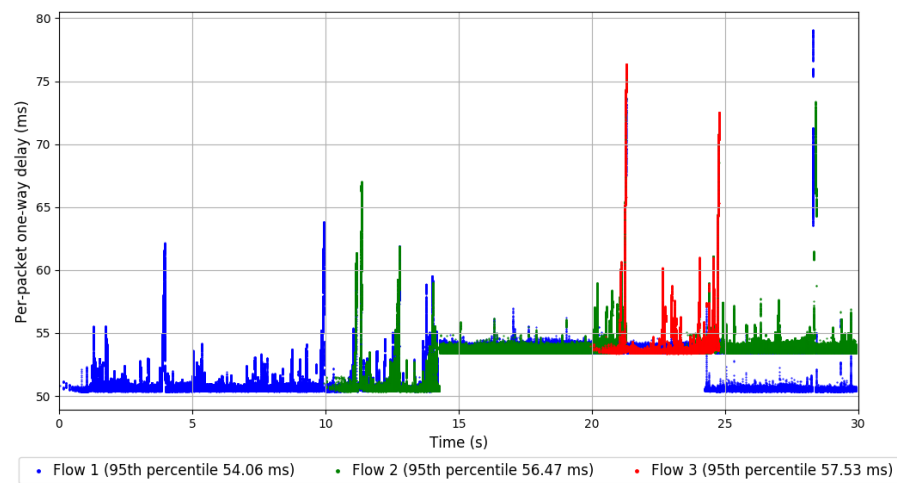
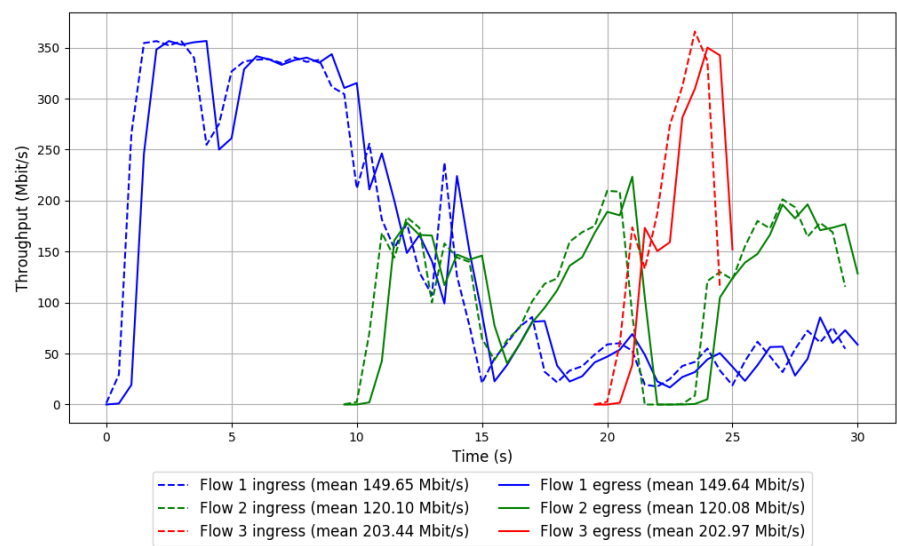


Run 1: Statistics of Copa

Start at: 2018-06-07 05:04:43
End at: 2018-06-07 05:05:13
Local clock offset: -0.29 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-06-07 09:22:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 262.79 Mbit/s
95th percentile per-packet one-way delay: 55.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.64 Mbit/s
95th percentile per-packet one-way delay: 54.059 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 120.08 Mbit/s
95th percentile per-packet one-way delay: 56.473 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 202.97 Mbit/s
95th percentile per-packet one-way delay: 57.531 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

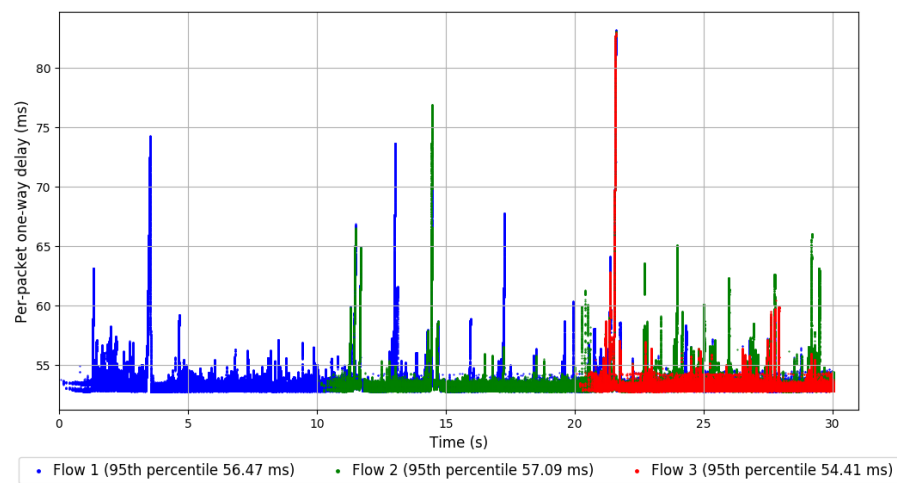
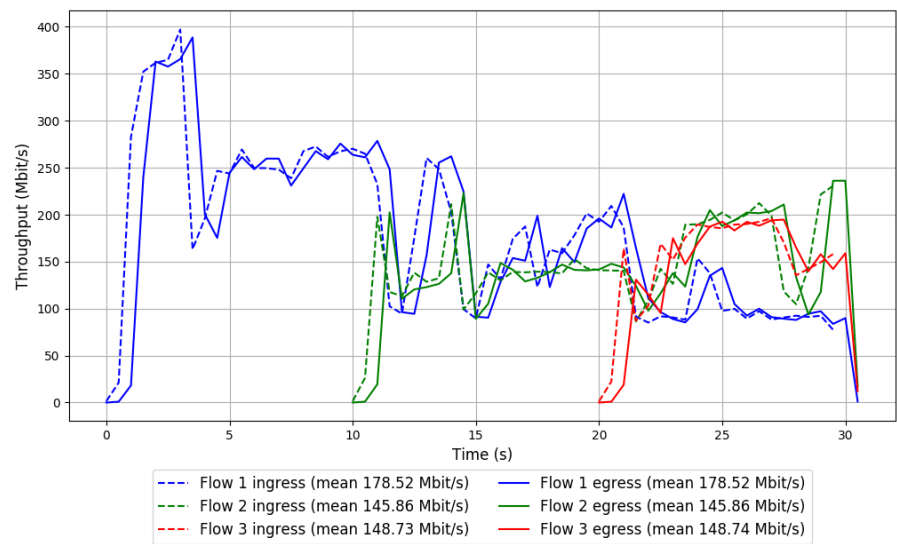


Run 2: Statistics of Copa

Start at: 2018-06-07 05:27:46
End at: 2018-06-07 05:28:16
Local clock offset: 0.001 ms
Remote clock offset: -0.645 ms

Below is generated by plot.py at 2018-06-07 09:24:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.05 Mbit/s
95th percentile per-packet one-way delay: 56.395 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.52 Mbit/s
95th percentile per-packet one-way delay: 56.465 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 145.86 Mbit/s
95th percentile per-packet one-way delay: 57.089 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 148.74 Mbit/s
95th percentile per-packet one-way delay: 54.413 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

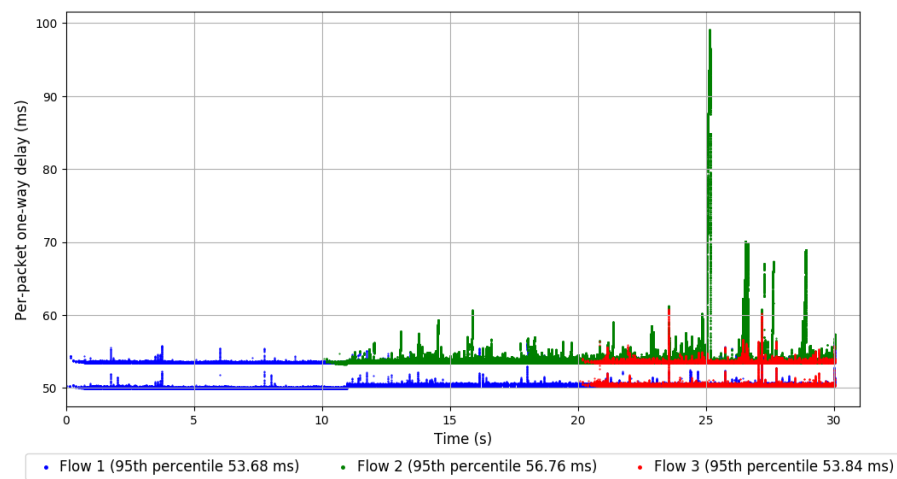
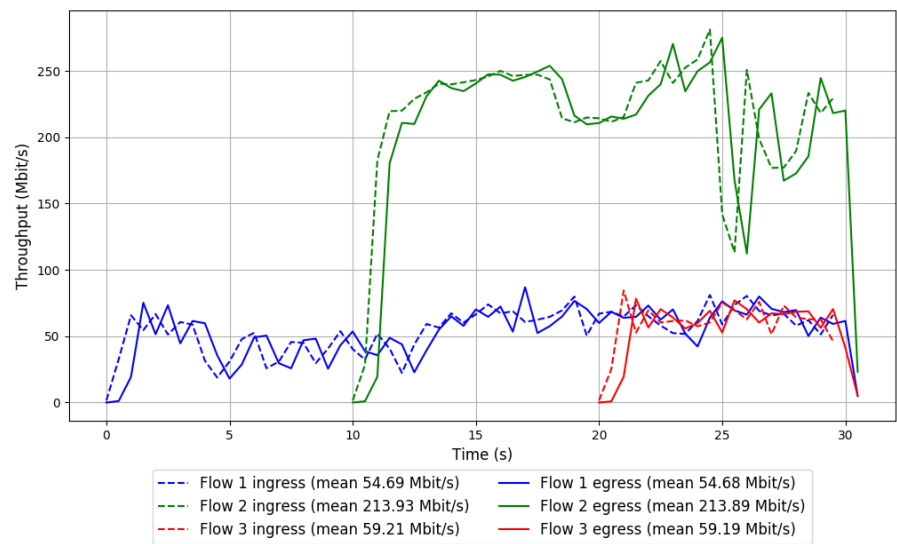


Run 3: Statistics of Copa

Start at: 2018-06-07 05:50:37
End at: 2018-06-07 05:51:07
Local clock offset: -0.307 ms
Remote clock offset: -0.622 ms

Below is generated by plot.py at 2018-06-07 09:24:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 216.81 Mbit/s
95th percentile per-packet one-way delay: 55.459 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.68 Mbit/s
95th percentile per-packet one-way delay: 53.676 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 213.89 Mbit/s
95th percentile per-packet one-way delay: 56.761 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 59.19 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

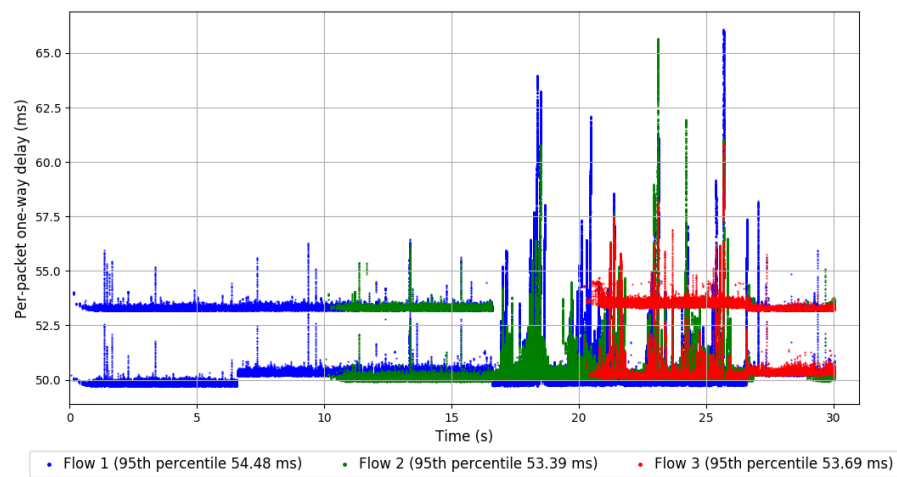
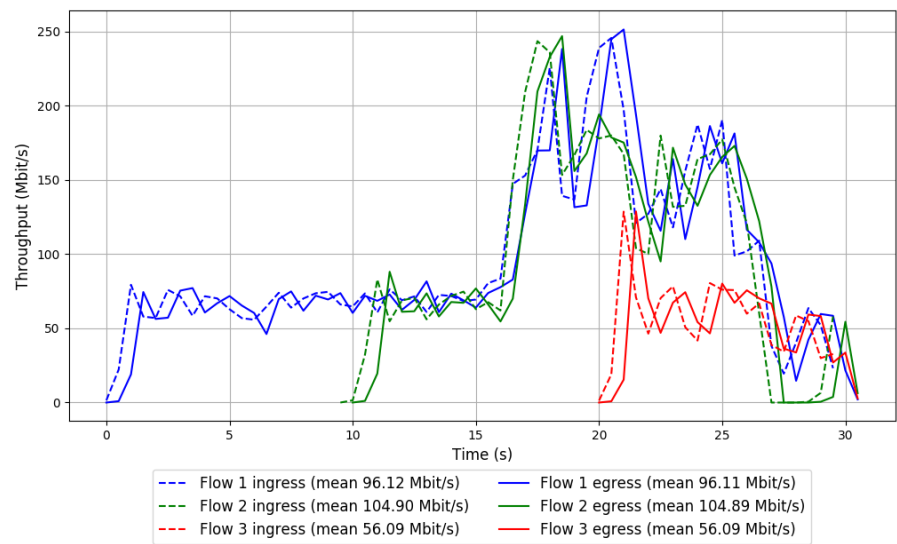


Run 4: Statistics of Copa

Start at: 2018-06-07 06:13:41
End at: 2018-06-07 06:14:11
Local clock offset: 0.24 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-06-07 09:24:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 184.63 Mbit/s
95th percentile per-packet one-way delay: 53.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 54.484 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 104.89 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 56.09 Mbit/s
95th percentile per-packet one-way delay: 53.687 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

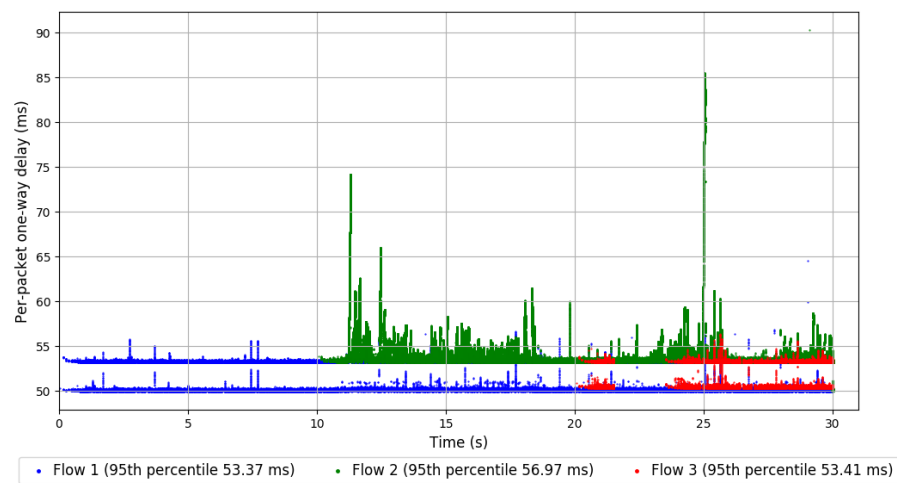
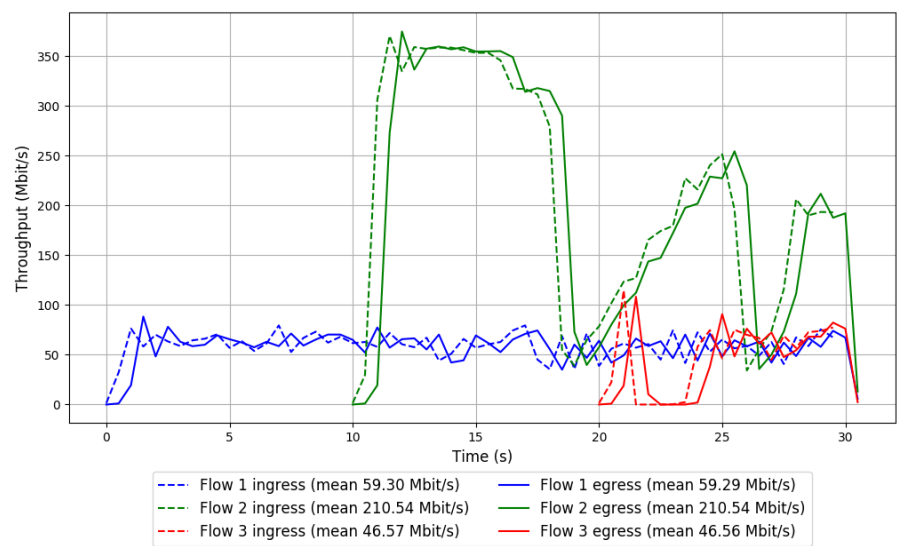


Run 5: Statistics of Copa

Start at: 2018-06-07 06:36:13
End at: 2018-06-07 06:36:43
Local clock offset: -0.047 ms
Remote clock offset: -0.552 ms

Below is generated by plot.py at 2018-06-07 09:24:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 215.02 Mbit/s
95th percentile per-packet one-way delay: 56.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.29 Mbit/s
95th percentile per-packet one-way delay: 53.373 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 210.54 Mbit/s
95th percentile per-packet one-way delay: 56.972 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 46.56 Mbit/s
95th percentile per-packet one-way delay: 53.405 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

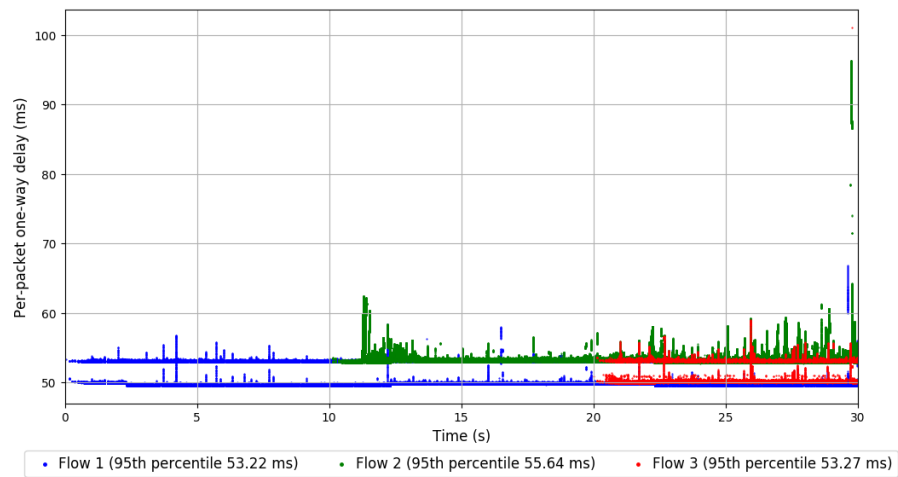
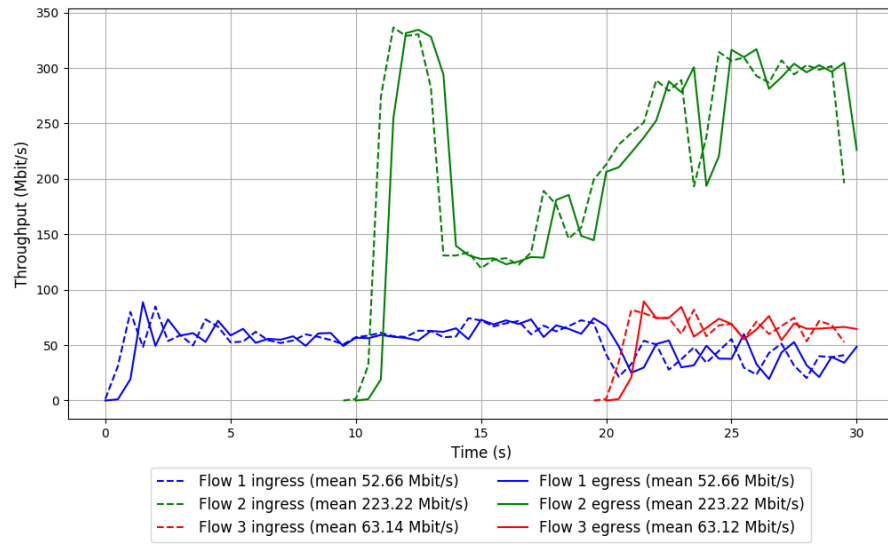


Run 6: Statistics of Copa

Start at: 2018-06-07 06:59:11
End at: 2018-06-07 06:59:41
Local clock offset: 0.049 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-06-07 09:24:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 222.56 Mbit/s
95th percentile per-packet one-way delay: 55.024 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.66 Mbit/s
95th percentile per-packet one-way delay: 53.217 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 223.22 Mbit/s
95th percentile per-packet one-way delay: 55.641 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.12 Mbit/s
95th percentile per-packet one-way delay: 53.272 ms
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-07 07:21:49

End at: 2018-06-07 07:22:19

Local clock offset: -0.285 ms

Remote clock offset: 0.209 ms

Below is generated by plot.py at 2018-06-07 09:28:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 266.15 Mbit/s

95th percentile per-packet one-way delay: 56.117 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 185.12 Mbit/s

95th percentile per-packet one-way delay: 54.416 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 64.14 Mbit/s

95th percentile per-packet one-way delay: 57.405 ms

Loss rate: 0.00%

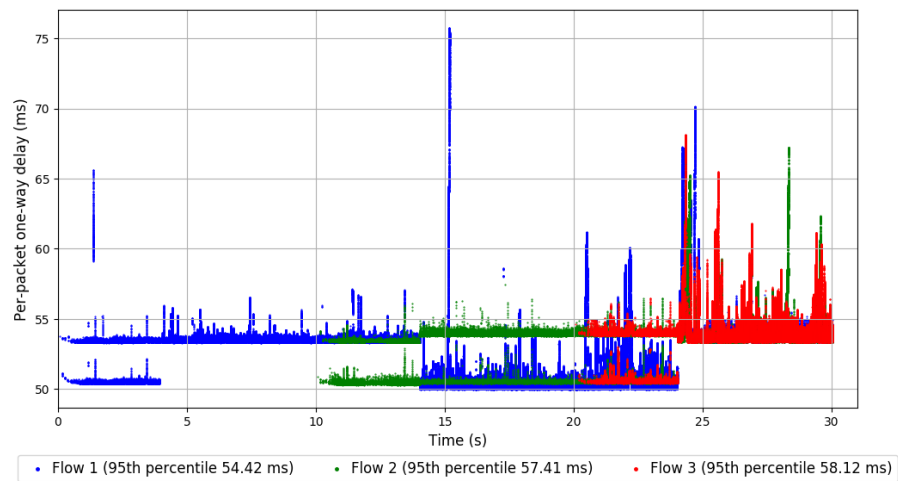
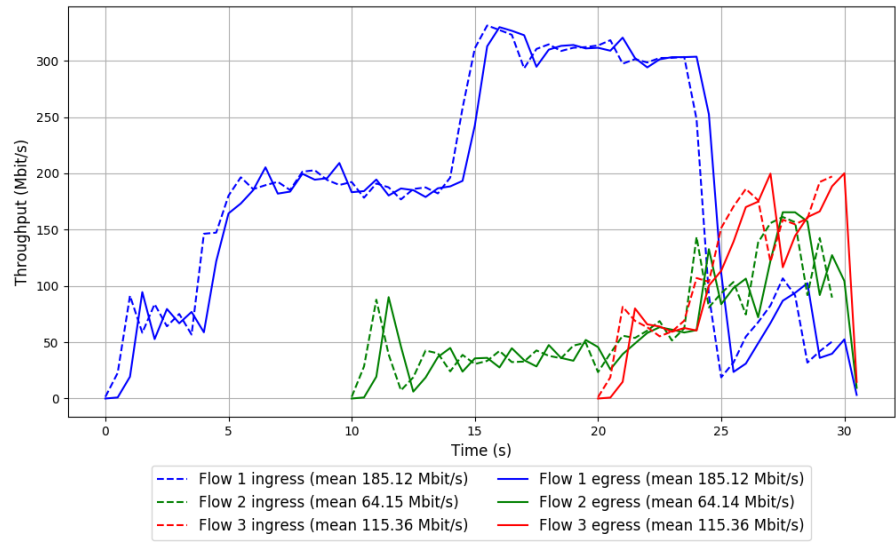
-- Flow 3:

Average throughput: 115.36 Mbit/s

95th percentile per-packet one-way delay: 58.117 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-07 07:45:12

End at: 2018-06-07 07:45:42

Local clock offset: 0.062 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-06-07 09:30:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 316.04 Mbit/s

95th percentile per-packet one-way delay: 55.034 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 260.24 Mbit/s

95th percentile per-packet one-way delay: 55.171 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 57.77 Mbit/s

95th percentile per-packet one-way delay: 53.582 ms

Loss rate: 0.01%

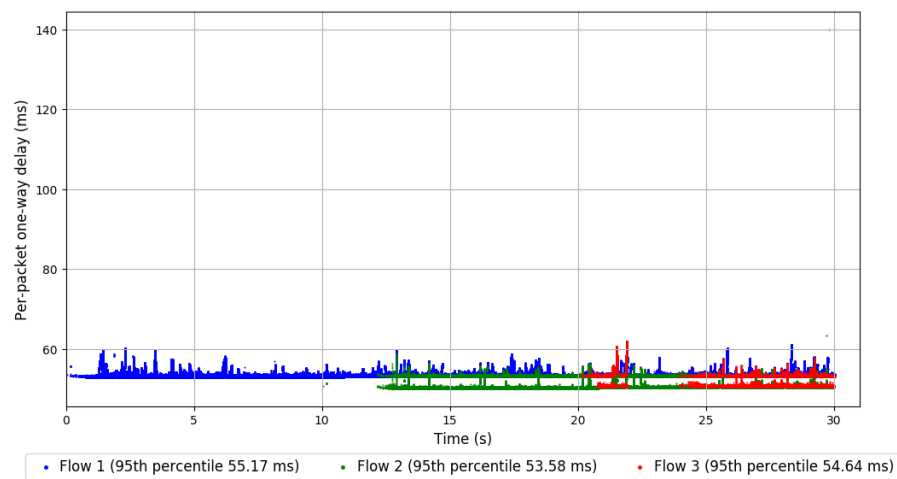
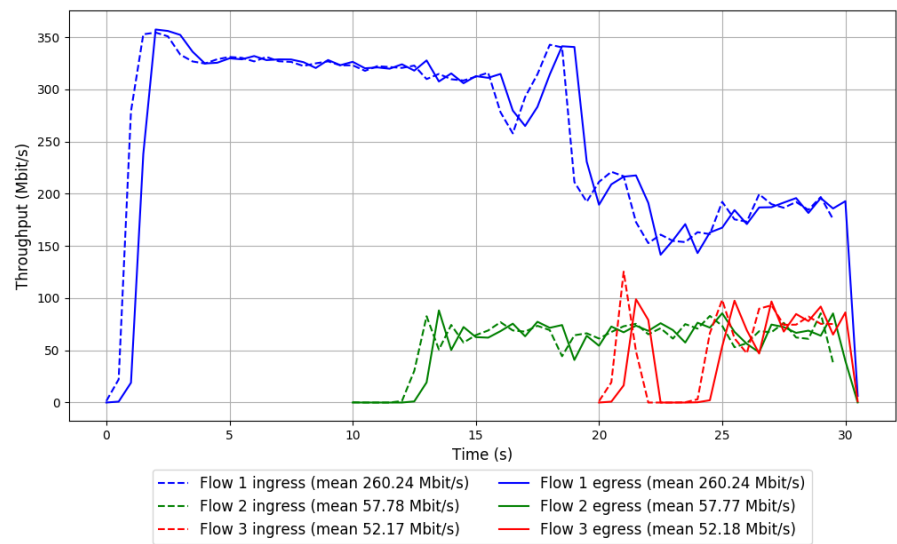
-- Flow 3:

Average throughput: 52.18 Mbit/s

95th percentile per-packet one-way delay: 54.641 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

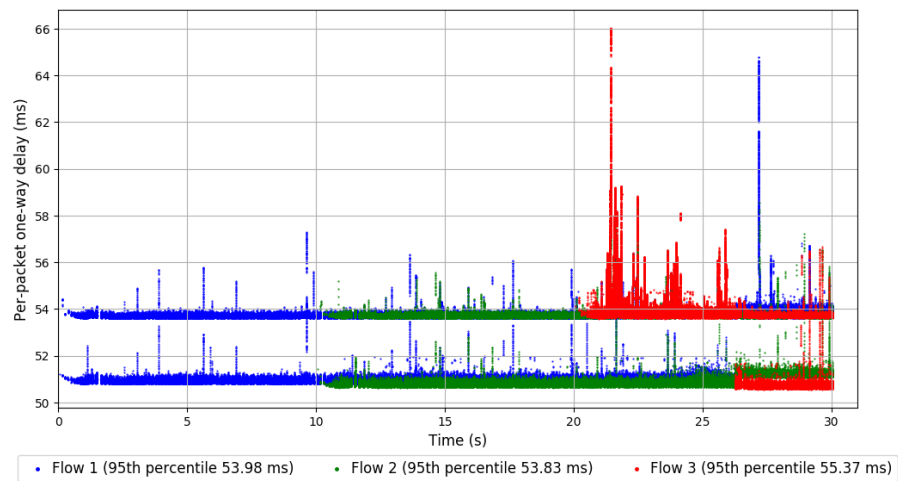
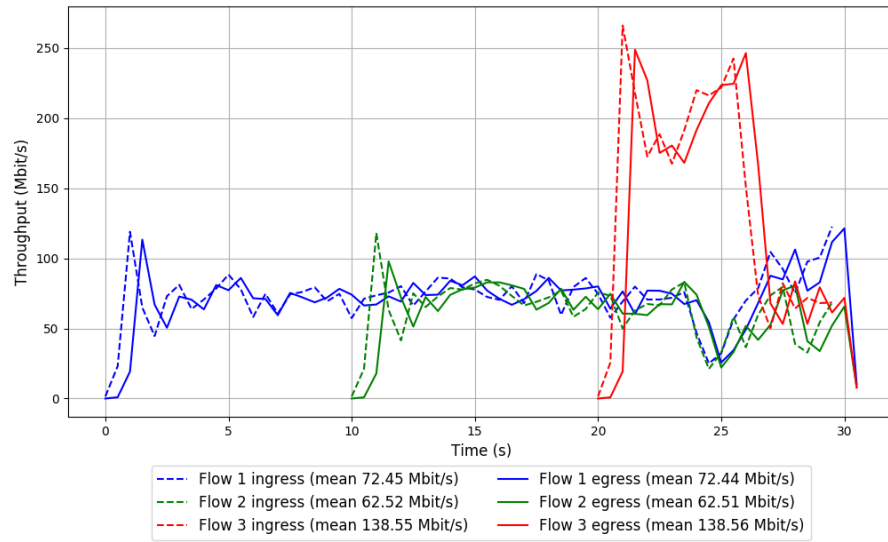


Run 9: Statistics of Copa

Start at: 2018-06-07 08:08:07
End at: 2018-06-07 08:08:37
Local clock offset: -0.578 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-06-07 09:30:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 160.08 Mbit/s
95th percentile per-packet one-way delay: 54.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.44 Mbit/s
95th percentile per-packet one-way delay: 53.977 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 138.56 Mbit/s
95th percentile per-packet one-way delay: 55.365 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-07 08:30:48

End at: 2018-06-07 08:31:18

Local clock offset: 0.056 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2018-06-07 09:30:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 208.98 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 110.35 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 91.27 Mbit/s

95th percentile per-packet one-way delay: 53.432 ms

Loss rate: 0.00%

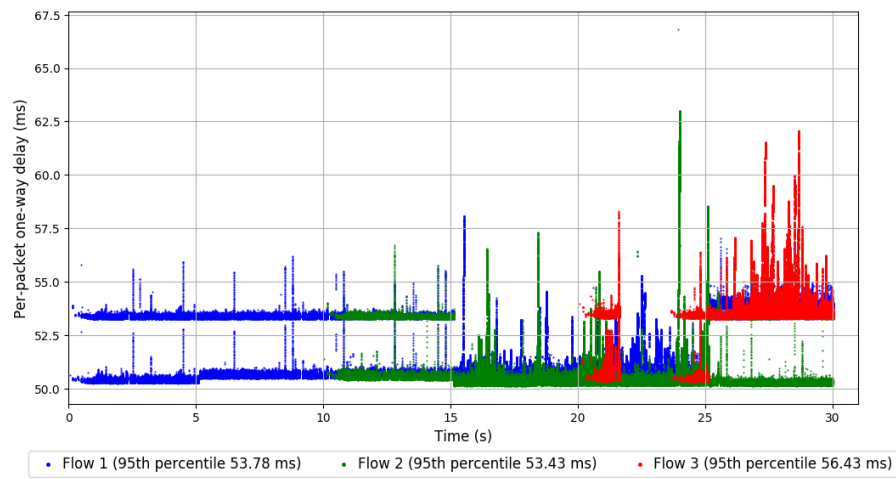
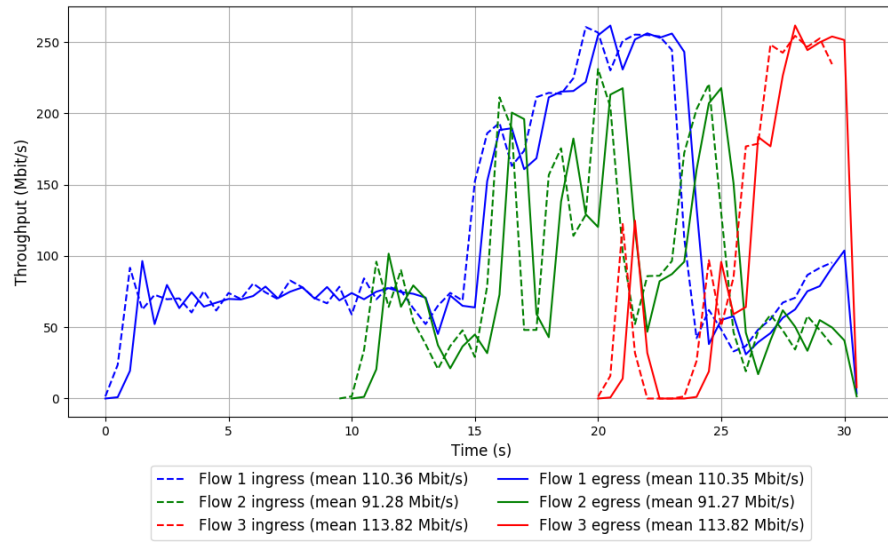
-- Flow 3:

Average throughput: 113.82 Mbit/s

95th percentile per-packet one-way delay: 56.427 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

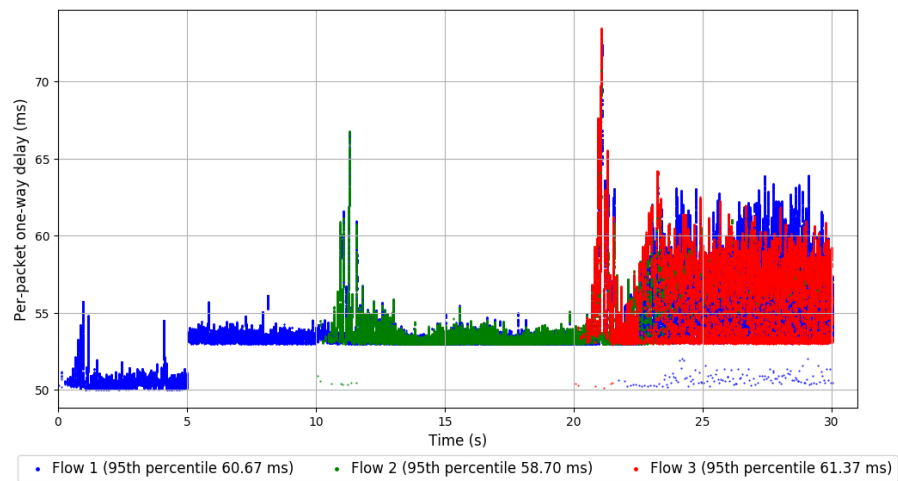
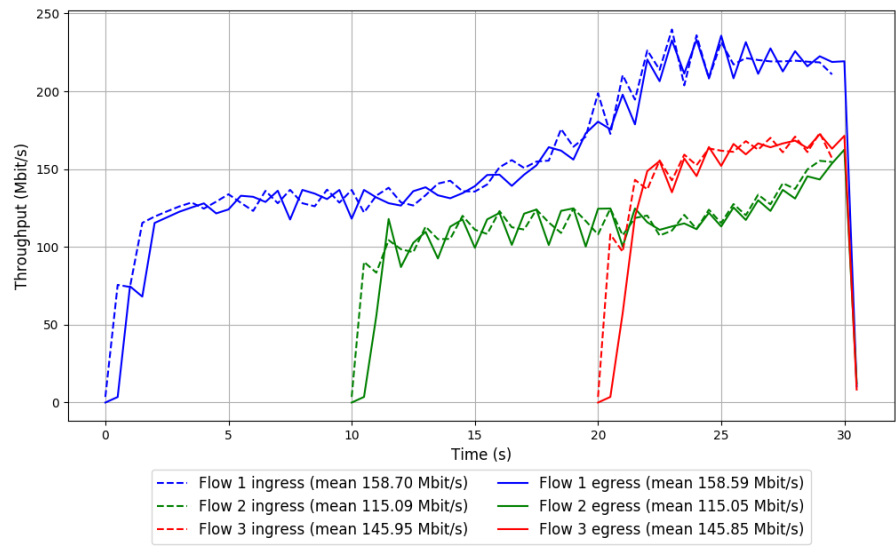


Run 1: Statistics of TCP Cubic

Start at: 2018-06-07 05:16:23
End at: 2018-06-07 05:16:53
Local clock offset: -0.107 ms
Remote clock offset: -0.553 ms

Below is generated by plot.py at 2018-06-07 09:30:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 283.61 Mbit/s
95th percentile per-packet one-way delay: 60.575 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 158.59 Mbit/s
95th percentile per-packet one-way delay: 60.672 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 115.05 Mbit/s
95th percentile per-packet one-way delay: 58.698 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 145.85 Mbit/s
95th percentile per-packet one-way delay: 61.367 ms
Loss rate: 0.02%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-07 05:39:10

End at: 2018-06-07 05:39:40

Local clock offset: -0.153 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at 2018-06-07 09:30:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 275.39 Mbit/s

95th percentile per-packet one-way delay: 59.426 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 141.68 Mbit/s

95th percentile per-packet one-way delay: 59.803 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 136.48 Mbit/s

95th percentile per-packet one-way delay: 59.031 ms

Loss rate: 0.00%

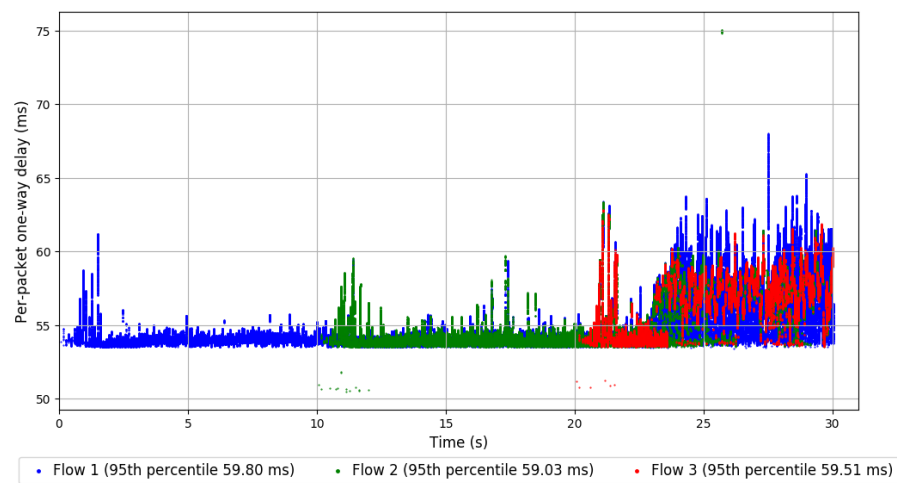
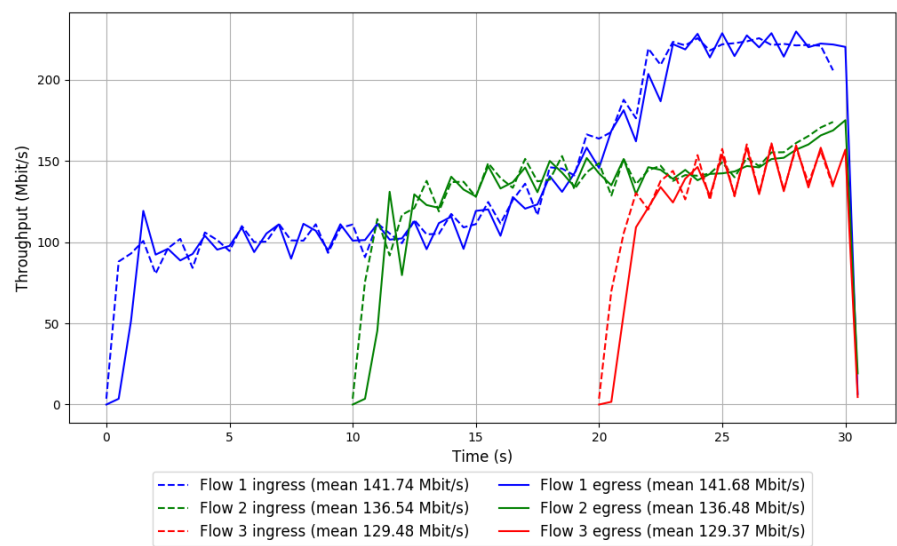
-- Flow 3:

Average throughput: 129.37 Mbit/s

95th percentile per-packet one-way delay: 59.505 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link

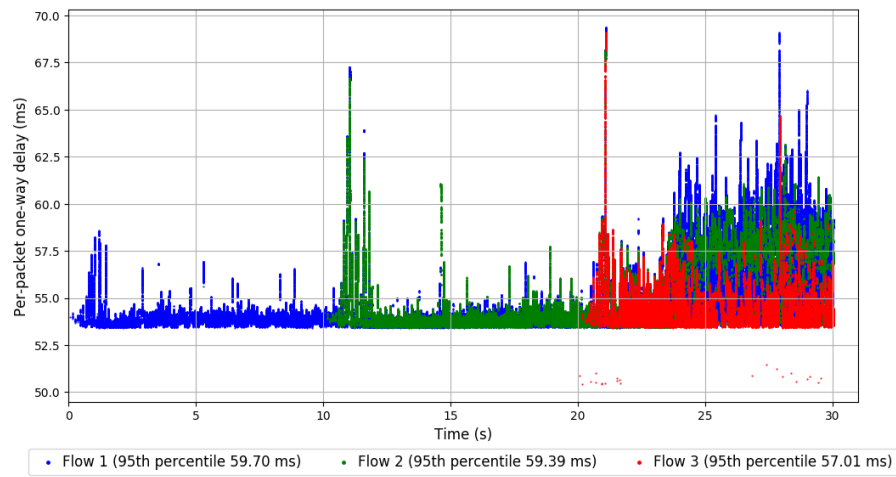
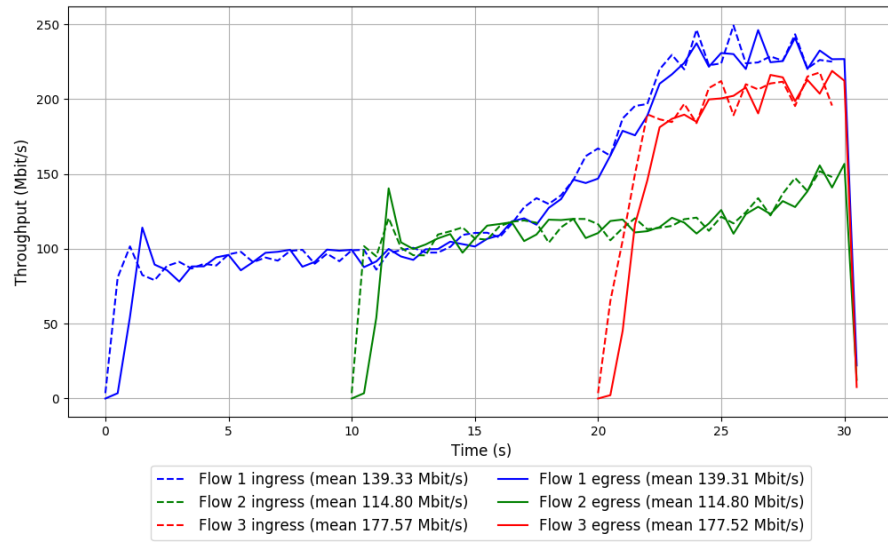


Run 3: Statistics of TCP Cubic

Start at: 2018-06-07 06:02:13
End at: 2018-06-07 06:02:43
Local clock offset: -0.35 ms
Remote clock offset: -0.702 ms

Below is generated by plot.py at 2018-06-07 09:30:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 274.68 Mbit/s
95th percentile per-packet one-way delay: 59.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 139.31 Mbit/s
95th percentile per-packet one-way delay: 59.699 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 114.80 Mbit/s
95th percentile per-packet one-way delay: 59.392 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 177.52 Mbit/s
95th percentile per-packet one-way delay: 57.005 ms
Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

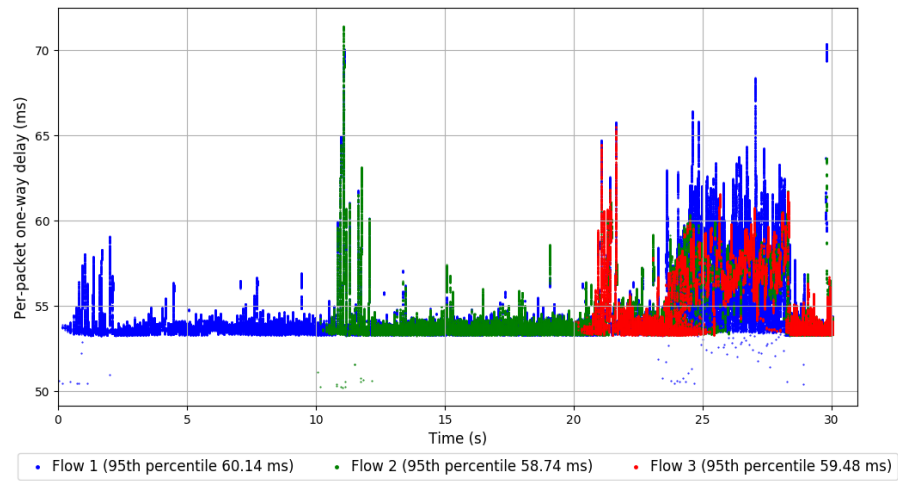
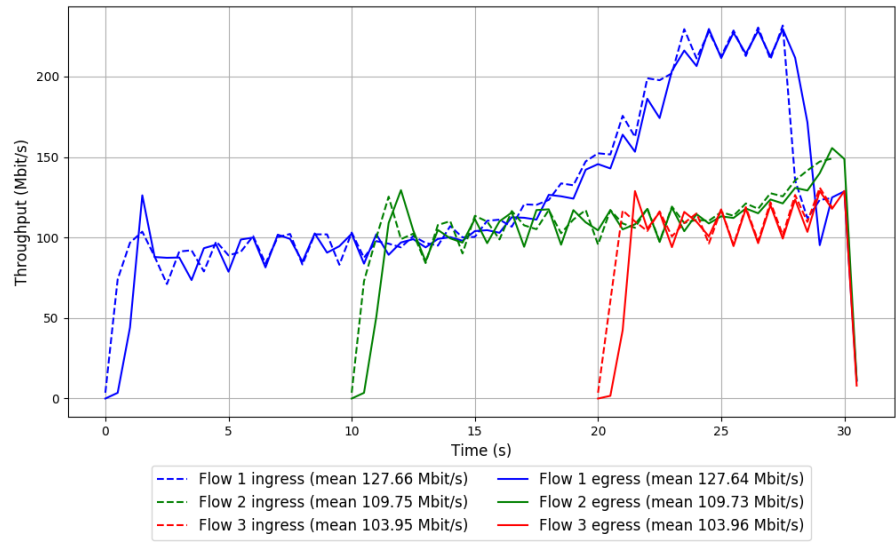


Run 4: Statistics of TCP Cubic

Start at: 2018-06-07 06:24:54
End at: 2018-06-07 06:25:24
Local clock offset: -0.139 ms
Remote clock offset: -0.684 ms

Below is generated by plot.py at 2018-06-07 09:30:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 235.21 Mbit/s
95th percentile per-packet one-way delay: 59.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 127.64 Mbit/s
95th percentile per-packet one-way delay: 60.137 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 109.73 Mbit/s
95th percentile per-packet one-way delay: 58.740 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 103.96 Mbit/s
95th percentile per-packet one-way delay: 59.476 ms
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link

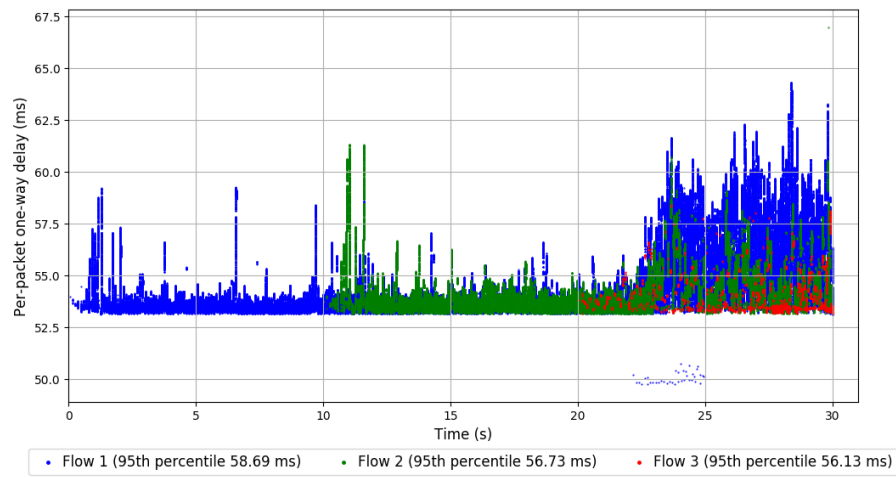
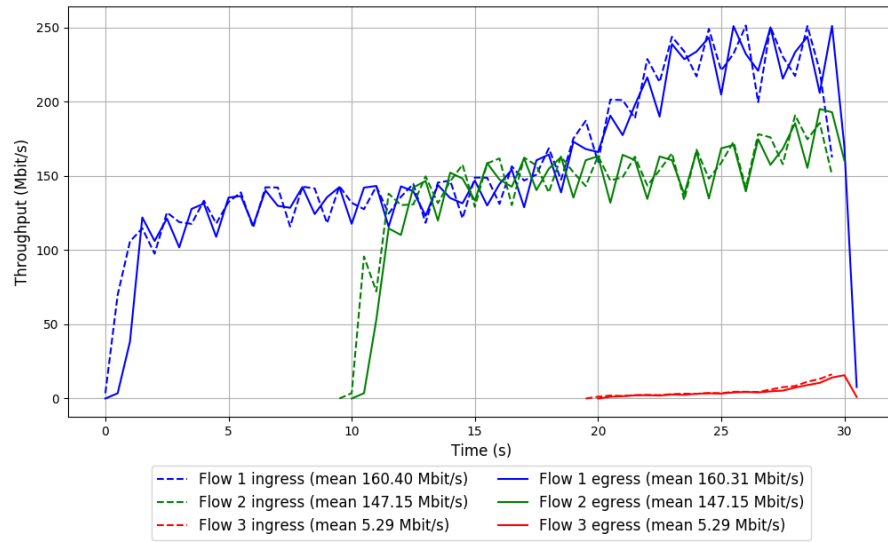


Run 5: Statistics of TCP Cubic

Start at: 2018-06-07 06:47:48
End at: 2018-06-07 06:48:18
Local clock offset: 0.018 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2018-06-07 09:30:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 260.09 Mbit/s
95th percentile per-packet one-way delay: 58.142 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 160.31 Mbit/s
95th percentile per-packet one-way delay: 58.685 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 147.15 Mbit/s
95th percentile per-packet one-way delay: 56.735 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 56.131 ms
Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link

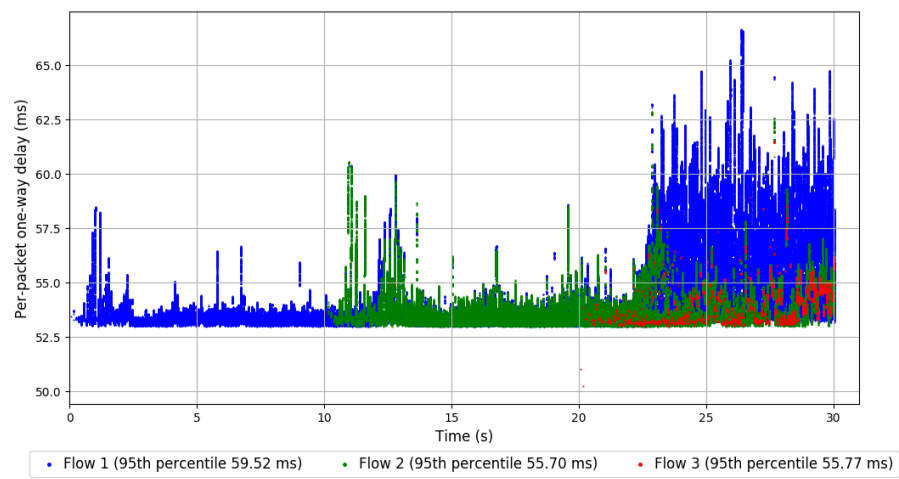
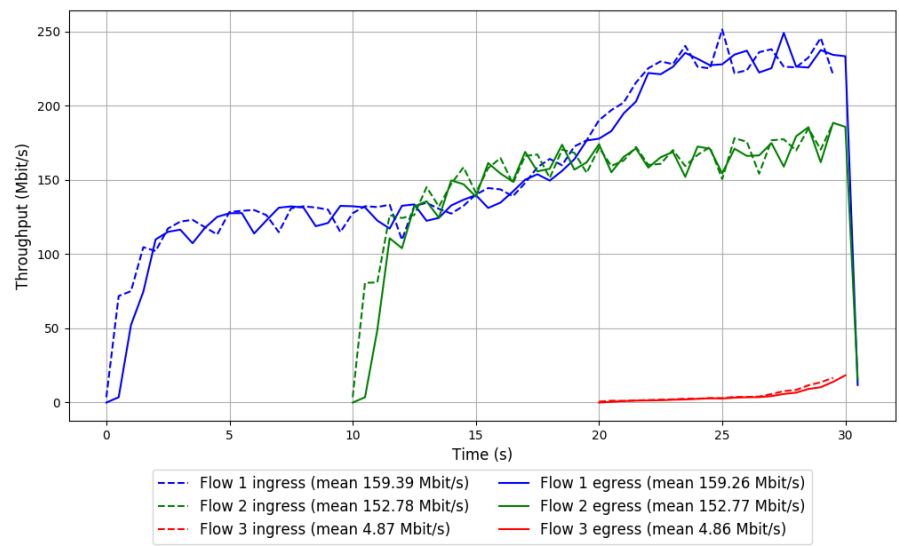


Run 6: Statistics of TCP Cubic

Start at: 2018-06-07 07:10:24
End at: 2018-06-07 07:10:54
Local clock offset: -0.235 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-06-07 09:30:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 262.51 Mbit/s
95th percentile per-packet one-way delay: 58.813 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 159.26 Mbit/s
95th percentile per-packet one-way delay: 59.522 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 152.77 Mbit/s
95th percentile per-packet one-way delay: 55.696 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 55.768 ms
Loss rate: 0.20%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-07 07:33:49

End at: 2018-06-07 07:34:19

Local clock offset: 0.048 ms

Remote clock offset: 0.425 ms

Below is generated by plot.py at 2018-06-07 09:30:54

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.93 Mbit/s

95th percentile per-packet one-way delay: 57.972 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 162.36 Mbit/s

95th percentile per-packet one-way delay: 57.609 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.73 Mbit/s

95th percentile per-packet one-way delay: 58.701 ms

Loss rate: 0.39%

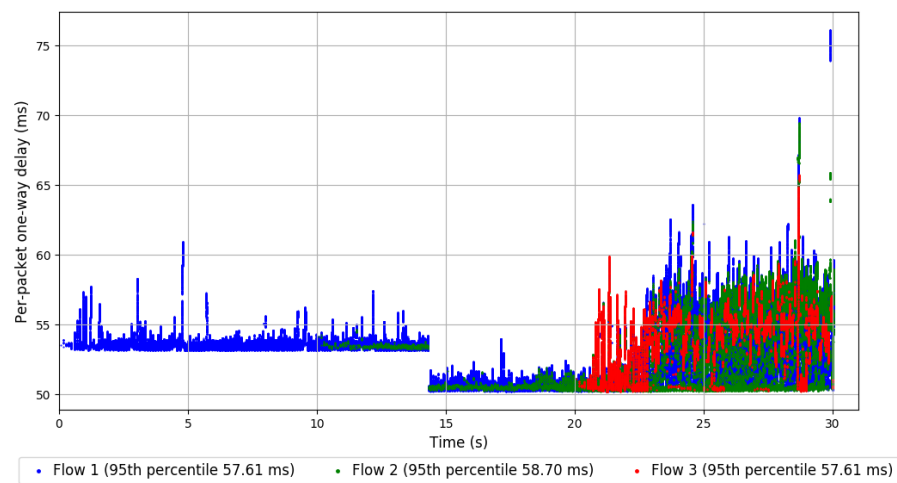
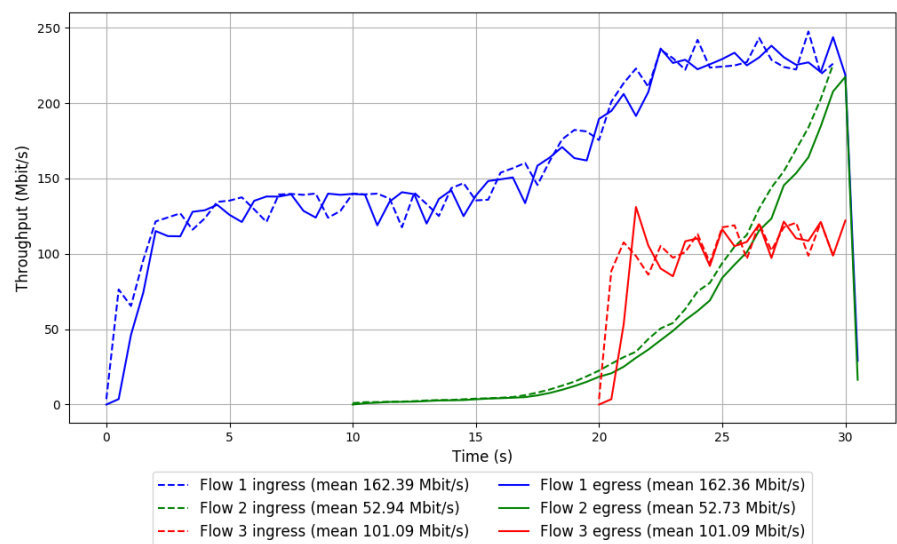
-- Flow 3:

Average throughput: 101.09 Mbit/s

95th percentile per-packet one-way delay: 57.614 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-07 07:56:45

End at: 2018-06-07 07:57:15

Local clock offset: -0.208 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-07 09:32:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.46 Mbit/s

95th percentile per-packet one-way delay: 59.485 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 142.93 Mbit/s

95th percentile per-packet one-way delay: 59.526 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 206.76 Mbit/s

95th percentile per-packet one-way delay: 59.457 ms

Loss rate: 0.00%

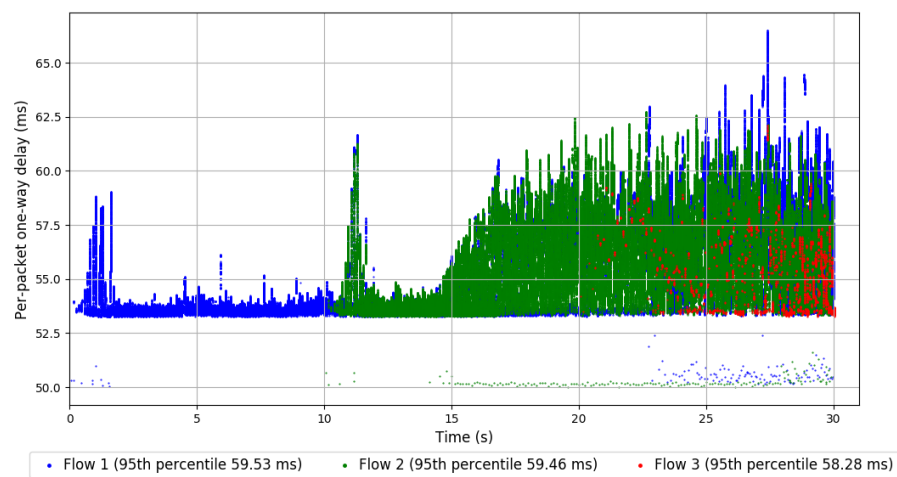
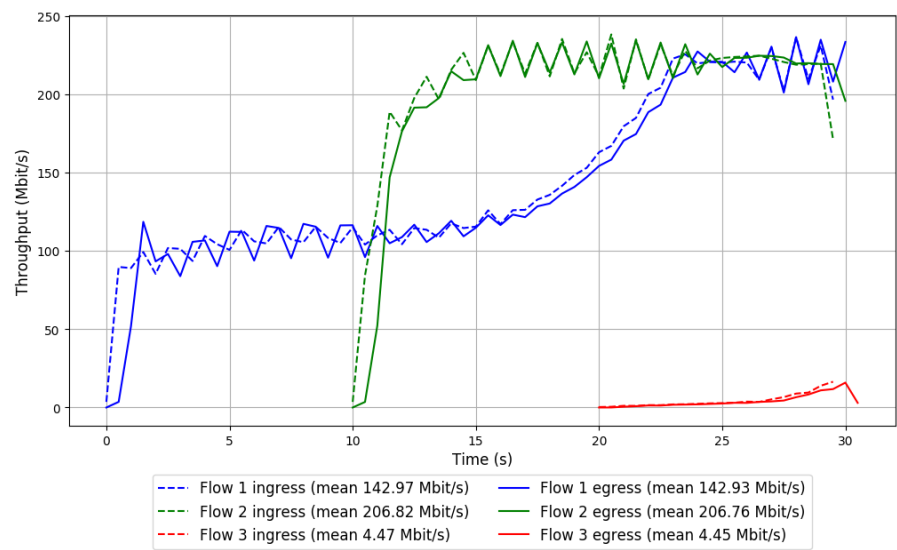
-- Flow 3:

Average throughput: 4.45 Mbit/s

95th percentile per-packet one-way delay: 58.279 ms

Loss rate: 0.27%

Run 8: Report of TCP Cubic — Data Link

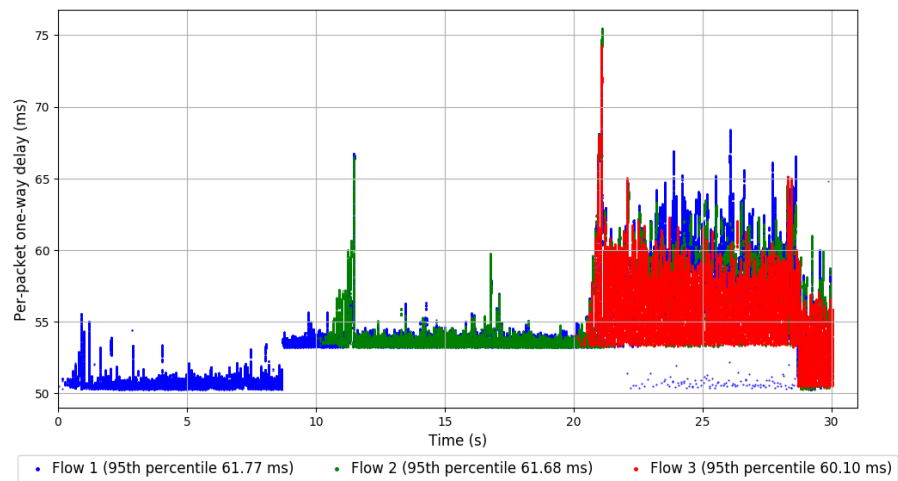
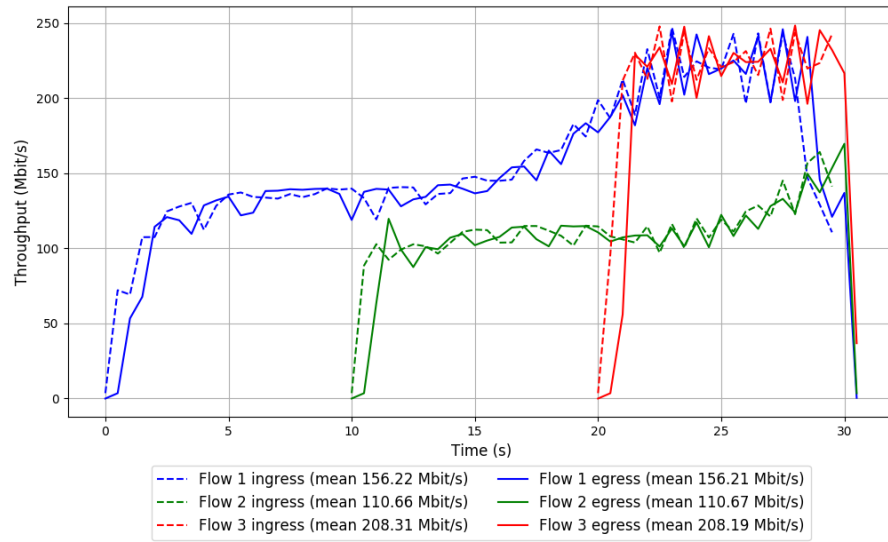


Run 9: Statistics of TCP Cubic

Start at: 2018-06-07 08:19:25
End at: 2018-06-07 08:19:55
Local clock offset: -0.151 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-07 09:32:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 299.13 Mbit/s
95th percentile per-packet one-way delay: 61.466 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 156.21 Mbit/s
95th percentile per-packet one-way delay: 61.774 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 110.67 Mbit/s
95th percentile per-packet one-way delay: 61.681 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 208.19 Mbit/s
95th percentile per-packet one-way delay: 60.105 ms
Loss rate: 0.06%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-07 08:42:36

End at: 2018-06-07 08:43:06

Local clock offset: -0.28 ms

Remote clock offset: 0.287 ms

Below is generated by plot.py at 2018-06-07 09:33:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 292.81 Mbit/s

95th percentile per-packet one-way delay: 63.429 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 145.07 Mbit/s

95th percentile per-packet one-way delay: 61.930 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 219.30 Mbit/s

95th percentile per-packet one-way delay: 64.271 ms

Loss rate: 0.09%

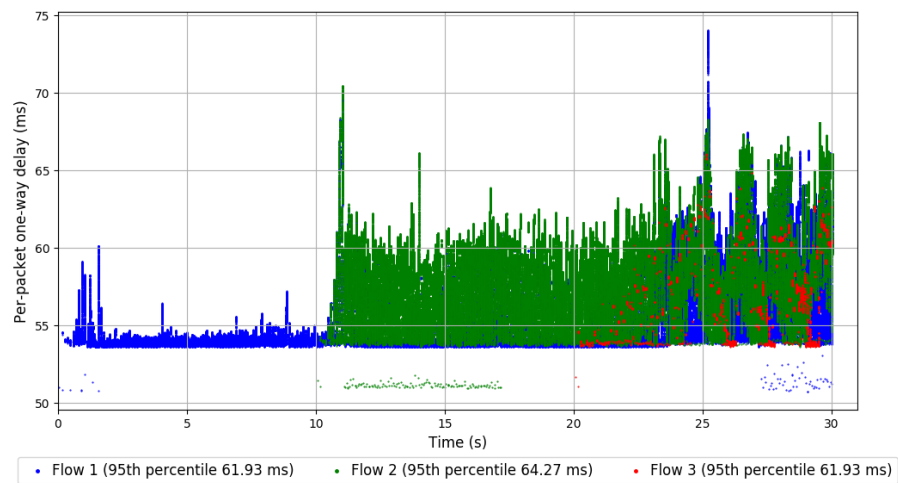
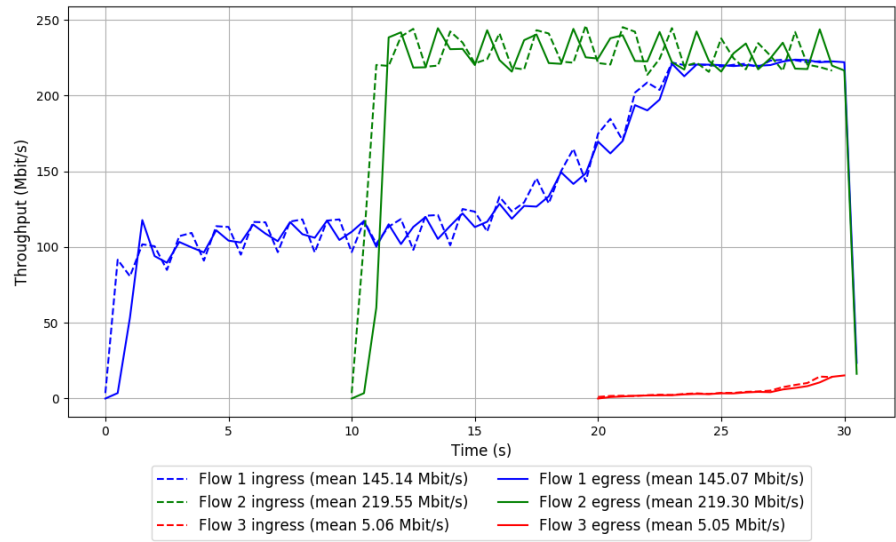
-- Flow 3:

Average throughput: 5.05 Mbit/s

95th percentile per-packet one-way delay: 61.932 ms

Loss rate: 0.07%

Run 10: Report of TCP Cubic — Data Link

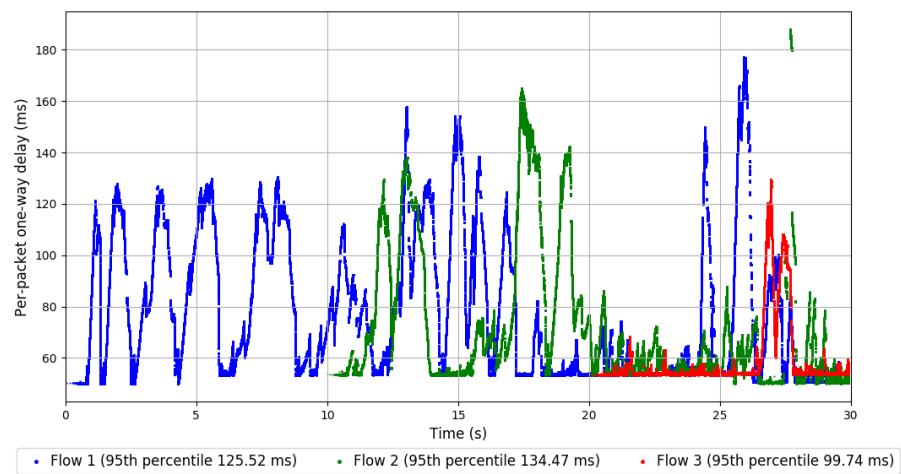
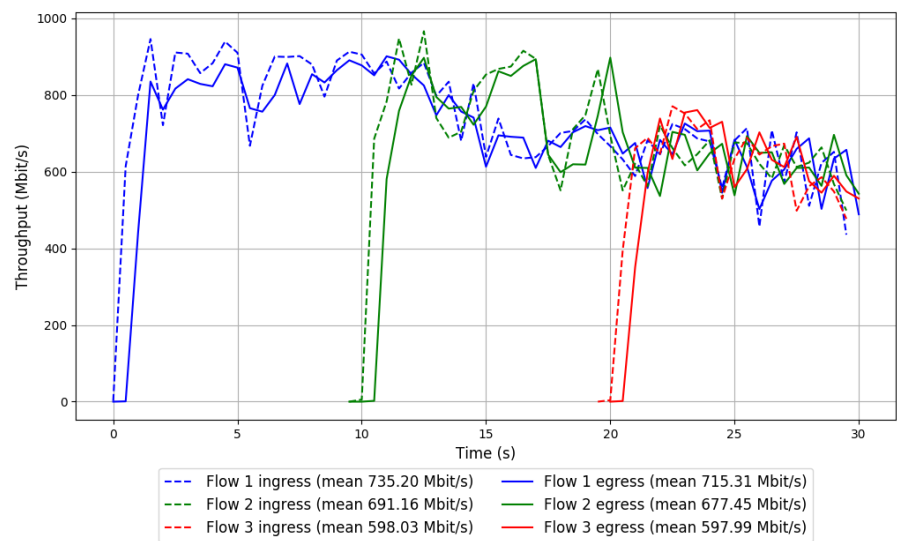


Run 1: Statistics of FillP

Start at: 2018-06-07 05:20:22
End at: 2018-06-07 05:20:52
Local clock offset: -0.319 ms
Remote clock offset: -0.452 ms

Below is generated by plot.py at 2018-06-07 09:55:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 1365.64 Mbit/s
95th percentile per-packet one-way delay: 125.967 ms
Loss rate: 2.08%
-- Flow 1:
Average throughput: 715.31 Mbit/s
95th percentile per-packet one-way delay: 125.521 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 677.45 Mbit/s
95th percentile per-packet one-way delay: 134.472 ms
Loss rate: 1.98%
-- Flow 3:
Average throughput: 597.99 Mbit/s
95th percentile per-packet one-way delay: 99.739 ms
Loss rate: 0.00%

Run 1: Report of FillP — Data Link

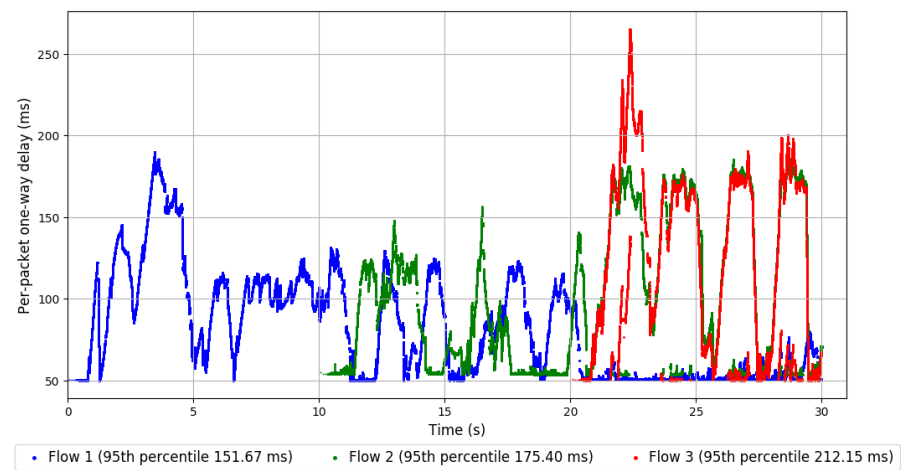
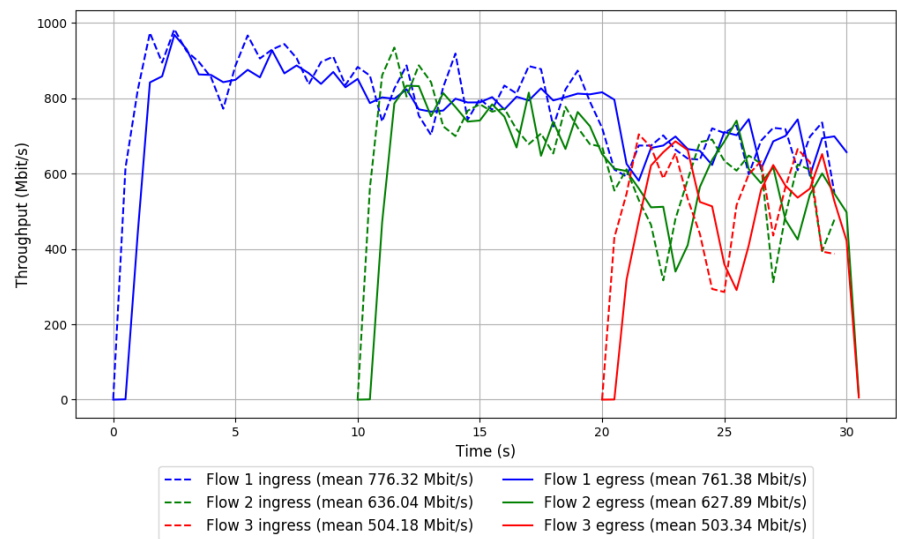


Run 2: Statistics of FillP

Start at: 2018-06-07 05:43:09
End at: 2018-06-07 05:43:39
Local clock offset: -0.179 ms
Remote clock offset: -0.436 ms

Below is generated by plot.py at 2018-06-07 09:55:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 1345.30 Mbit/s
95th percentile per-packet one-way delay: 174.638 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 761.38 Mbit/s
95th percentile per-packet one-way delay: 151.671 ms
Loss rate: 1.92%
-- Flow 2:
Average throughput: 627.89 Mbit/s
95th percentile per-packet one-way delay: 175.396 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 503.34 Mbit/s
95th percentile per-packet one-way delay: 212.152 ms
Loss rate: 0.00%

Run 2: Report of FillP — Data Link

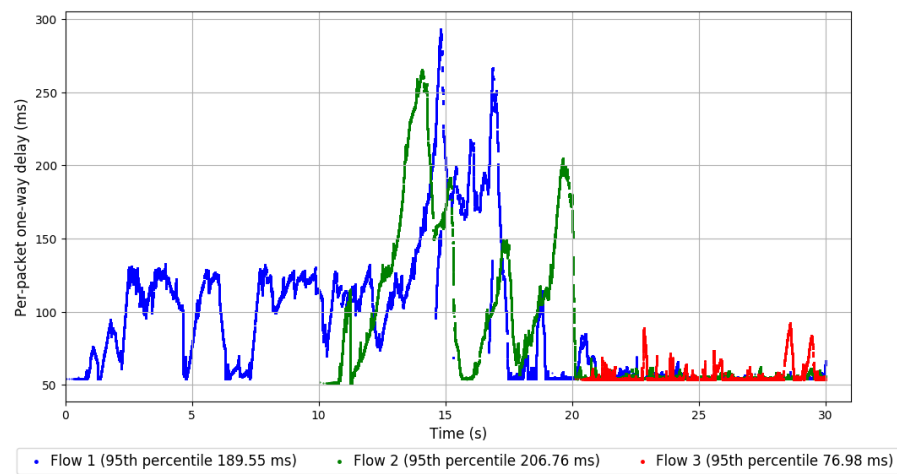
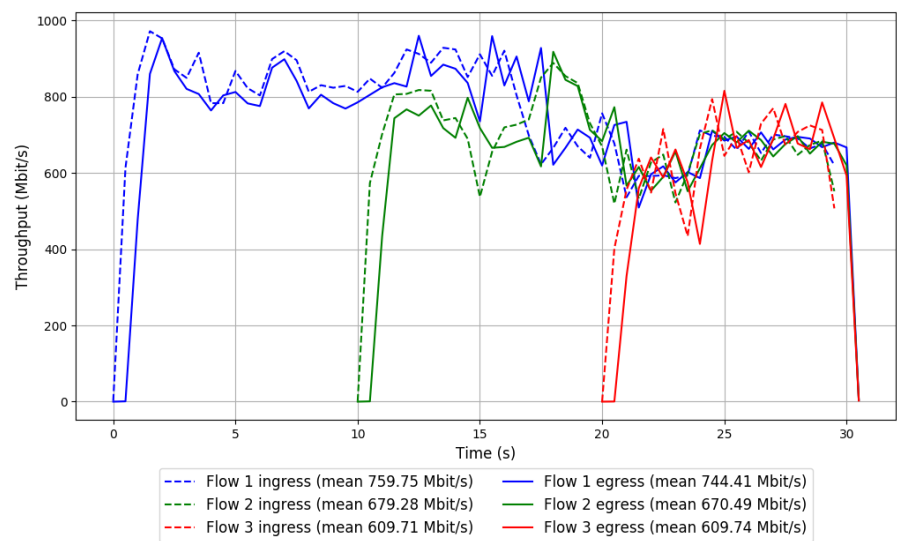


Run 3: Statistics of FillP

Start at: 2018-06-07 06:06:12
End at: 2018-06-07 06:06:42
Local clock offset: -0.111 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-06-07 09:57:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 1392.36 Mbit/s
95th percentile per-packet one-way delay: 190.538 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 744.41 Mbit/s
95th percentile per-packet one-way delay: 189.550 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 670.49 Mbit/s
95th percentile per-packet one-way delay: 206.757 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 609.74 Mbit/s
95th percentile per-packet one-way delay: 76.981 ms
Loss rate: 0.00%

Run 3: Report of FillP — Data Link

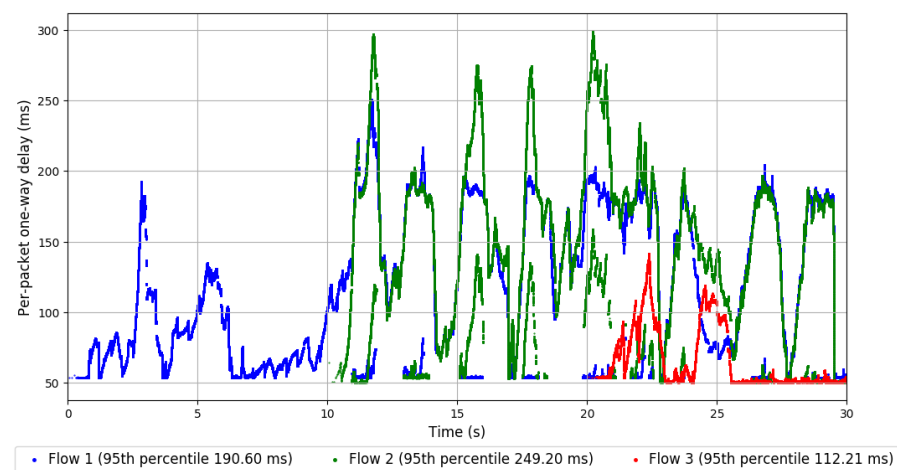
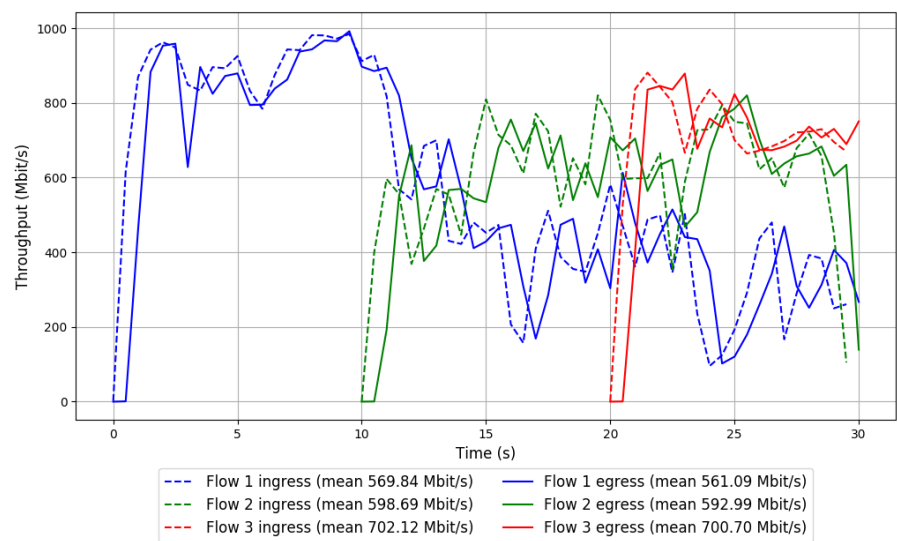


Run 4: Statistics of FillP

Start at: 2018-06-07 06:28:51
End at: 2018-06-07 06:29:21
Local clock offset: -0.361 ms
Remote clock offset: -0.752 ms

Below is generated by plot.py at 2018-06-07 09:57:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 1187.85 Mbit/s
95th percentile per-packet one-way delay: 197.885 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 561.09 Mbit/s
95th percentile per-packet one-way delay: 190.598 ms
Loss rate: 1.54%
-- Flow 2:
Average throughput: 592.99 Mbit/s
95th percentile per-packet one-way delay: 249.199 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 700.70 Mbit/s
95th percentile per-packet one-way delay: 112.208 ms
Loss rate: 0.24%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-07 06:51:47

End at: 2018-06-07 06:52:17

Local clock offset: 0.04 ms

Remote clock offset: 0.197 ms

Below is generated by plot.py at 2018-06-07 09:57:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 1383.05 Mbit/s

95th percentile per-packet one-way delay: 172.291 ms

Loss rate: 1.30%

-- Flow 1:

Average throughput: 782.06 Mbit/s

95th percentile per-packet one-way delay: 122.141 ms

Loss rate: 0.73%

-- Flow 2:

Average throughput: 676.97 Mbit/s

95th percentile per-packet one-way delay: 177.915 ms

Loss rate: 2.61%

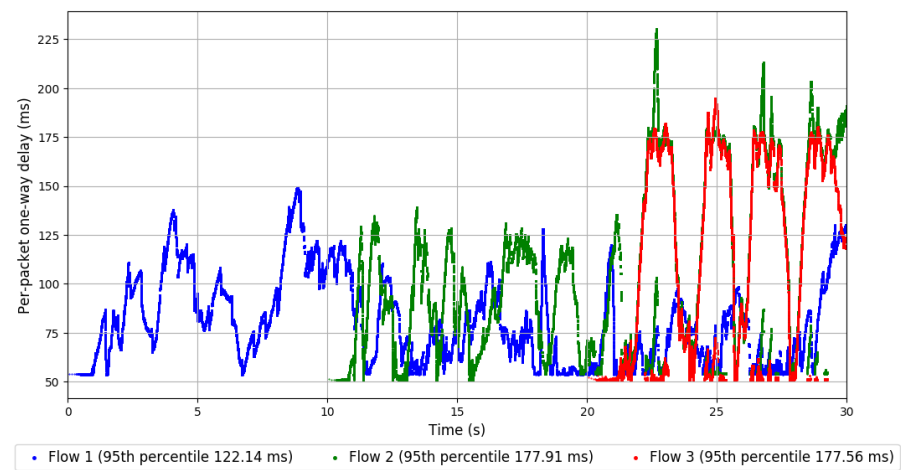
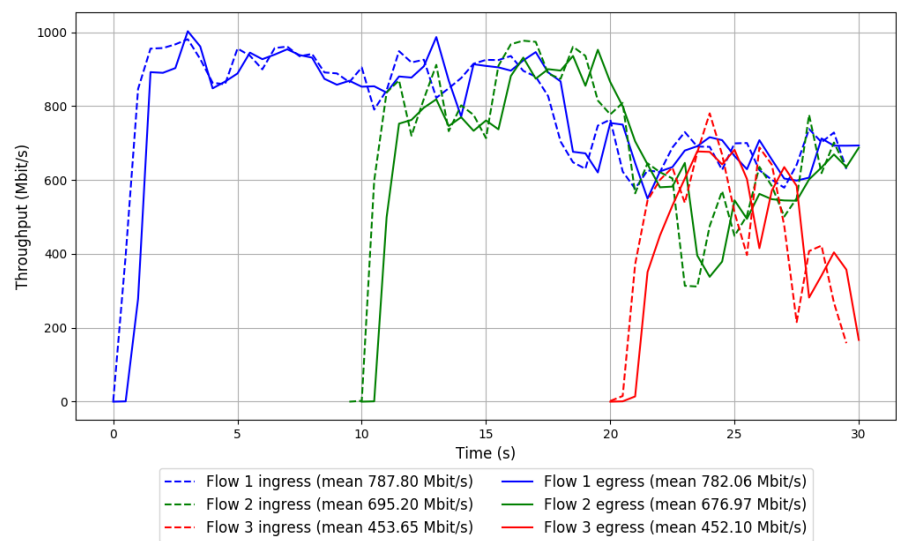
-- Flow 3:

Average throughput: 452.10 Mbit/s

95th percentile per-packet one-way delay: 177.562 ms

Loss rate: 0.31%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-07 07:14:22

End at: 2018-06-07 07:14:52

Local clock offset: 0.124 ms

Remote clock offset: 0.466 ms

Below is generated by plot.py at 2018-06-07 09:59:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 1390.52 Mbit/s

95th percentile per-packet one-way delay: 154.827 ms

Loss rate: 1.60%

-- Flow 1:

Average throughput: 768.31 Mbit/s

95th percentile per-packet one-way delay: 166.941 ms

Loss rate: 0.16%

-- Flow 2:

Average throughput: 652.43 Mbit/s

95th percentile per-packet one-way delay: 145.603 ms

Loss rate: 4.50%

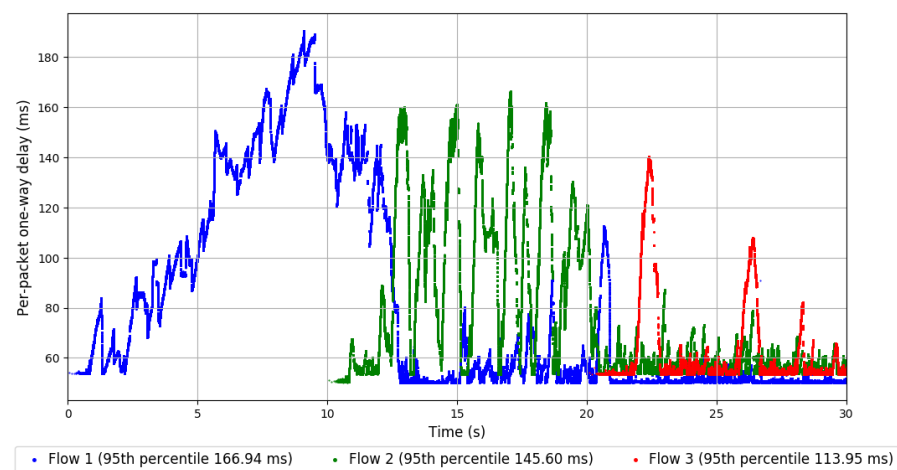
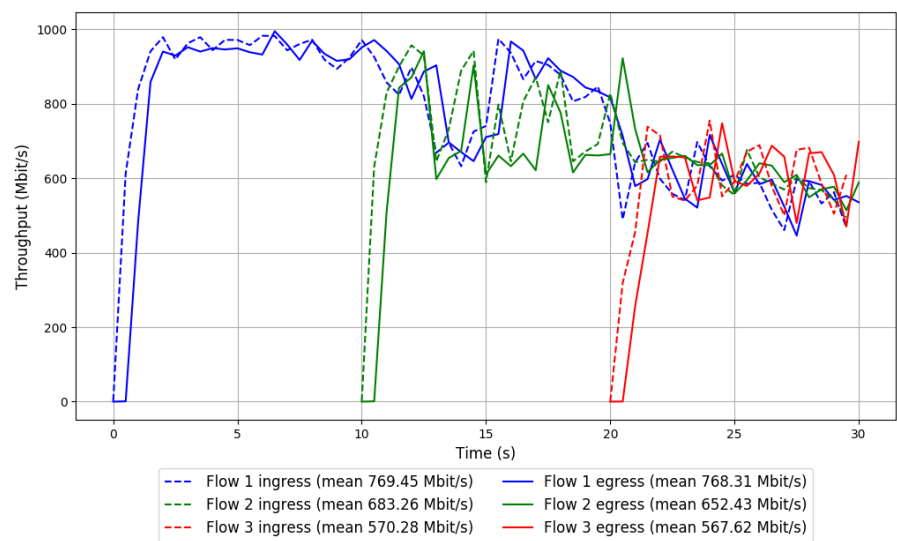
-- Flow 3:

Average throughput: 567.62 Mbit/s

95th percentile per-packet one-way delay: 113.951 ms

Loss rate: 0.45%

Run 6: Report of FillP — Data Link

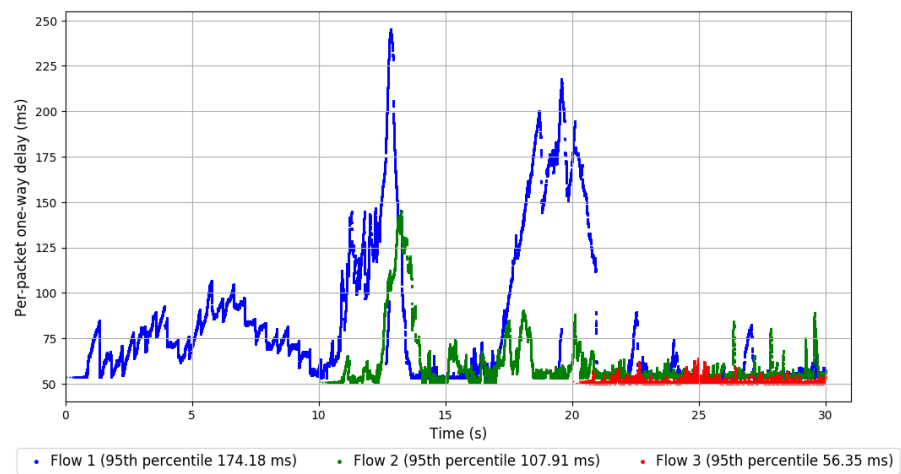
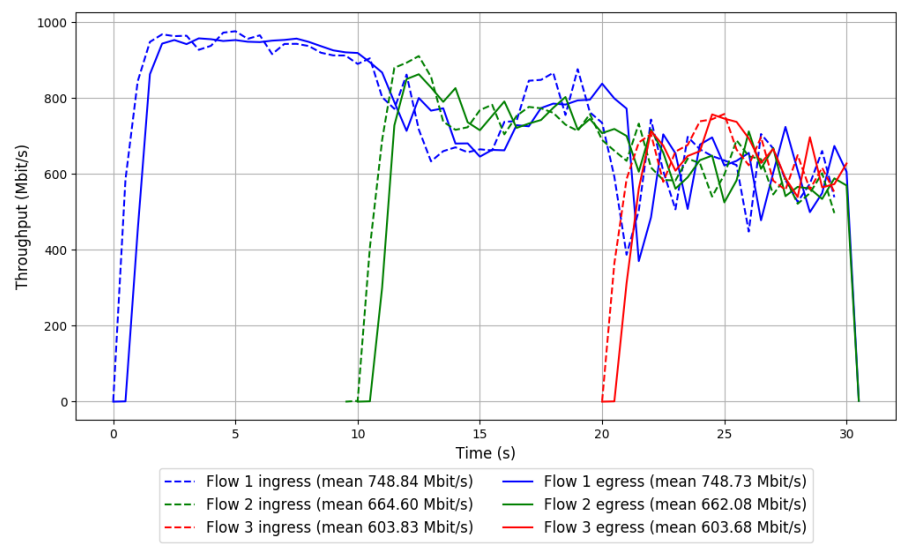


Run 7: Statistics of FillP

Start at: 2018-06-07 07:37:45
End at: 2018-06-07 07:38:15
Local clock offset: -0.324 ms
Remote clock offset: 0.25 ms

Below is generated by plot.py at 2018-06-07 09:59:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 1390.01 Mbit/s
95th percentile per-packet one-way delay: 155.181 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 748.73 Mbit/s
95th percentile per-packet one-way delay: 174.175 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 662.08 Mbit/s
95th percentile per-packet one-way delay: 107.912 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 603.68 Mbit/s
95th percentile per-packet one-way delay: 56.348 ms
Loss rate: 0.00%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-07 08:00:45

End at: 2018-06-07 08:01:15

Local clock offset: 0.349 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-06-07 10:01:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 1402.80 Mbit/s

95th percentile per-packet one-way delay: 99.687 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 752.79 Mbit/s

95th percentile per-packet one-way delay: 107.218 ms

Loss rate: 0.68%

-- Flow 2:

Average throughput: 680.26 Mbit/s

95th percentile per-packet one-way delay: 102.530 ms

Loss rate: 0.44%

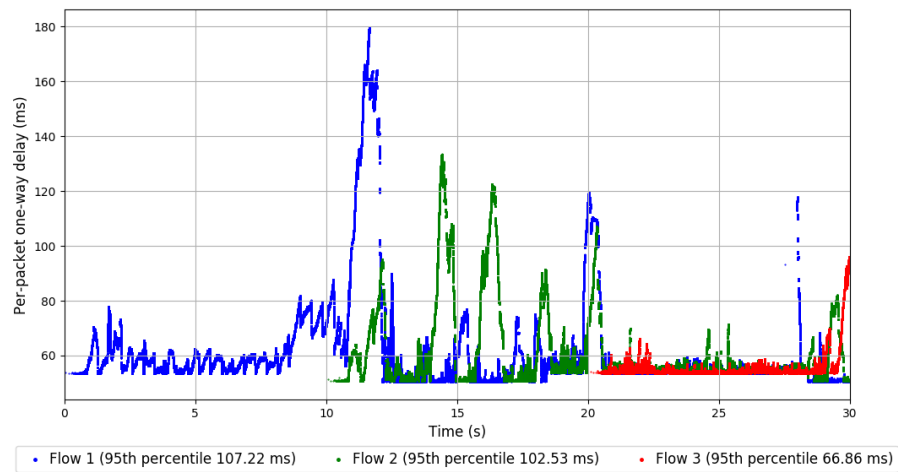
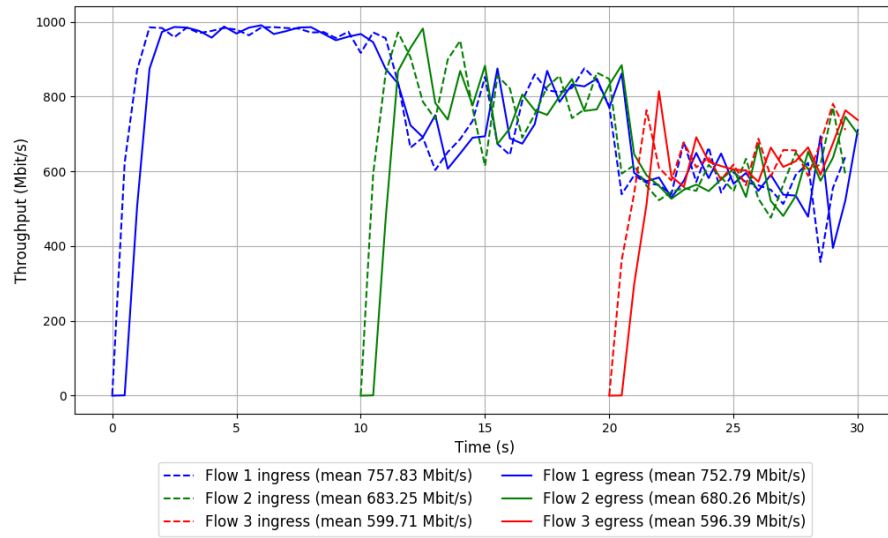
-- Flow 3:

Average throughput: 596.39 Mbit/s

95th percentile per-packet one-way delay: 66.865 ms

Loss rate: 0.55%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-07 08:23:25

End at: 2018-06-07 08:23:55

Local clock offset: 0.025 ms

Remote clock offset: 0.043 ms

Below is generated by plot.py at 2018-06-07 10:20:52

Datalink statistics

-- Total of 3 flows:

Average throughput: 1277.47 Mbit/s

95th percentile per-packet one-way delay: 175.954 ms

Loss rate: 2.85%

-- Flow 1:

Average throughput: 700.68 Mbit/s

95th percentile per-packet one-way delay: 177.062 ms

Loss rate: 3.10%

-- Flow 2:

Average throughput: 701.00 Mbit/s

95th percentile per-packet one-way delay: 128.215 ms

Loss rate: 2.76%

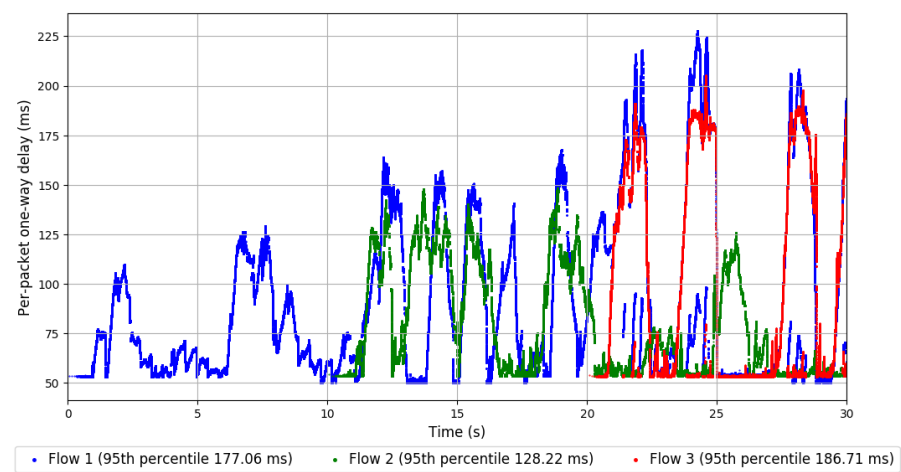
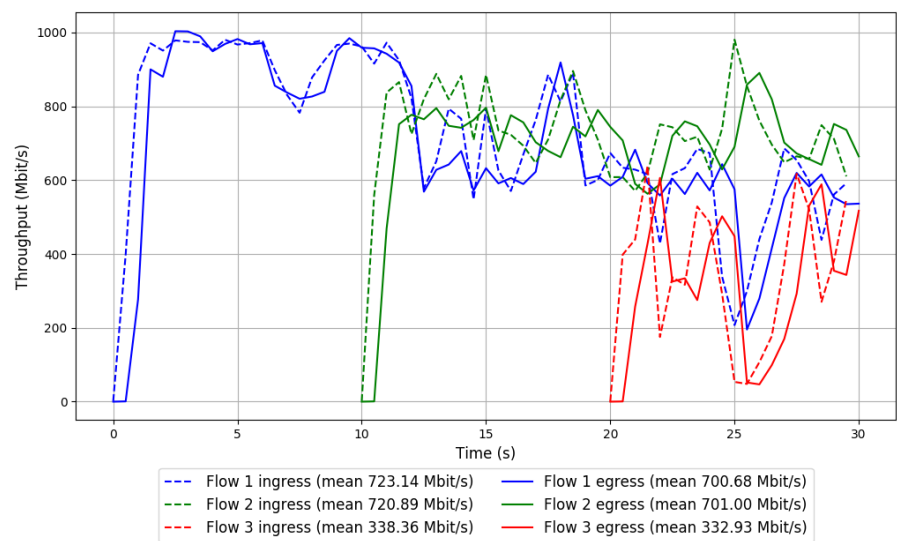
-- Flow 3:

Average throughput: 332.93 Mbit/s

95th percentile per-packet one-way delay: 186.707 ms

Loss rate: 1.60%

Run 9: Report of FillP — Data Link

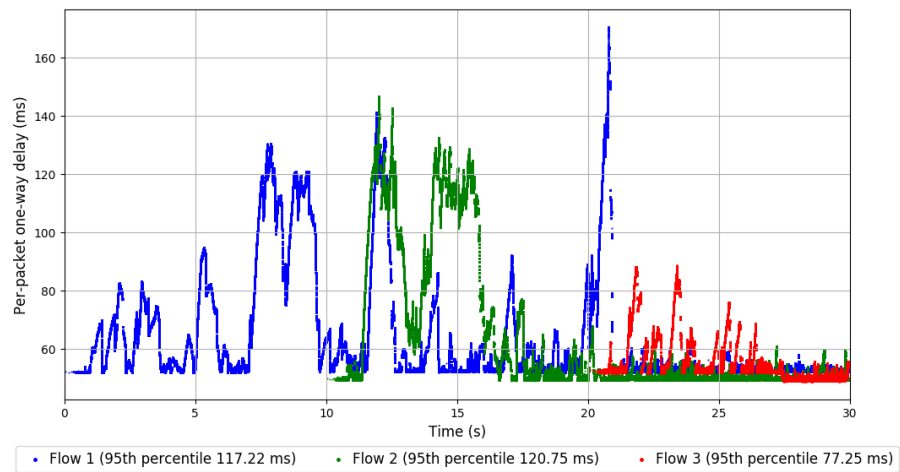
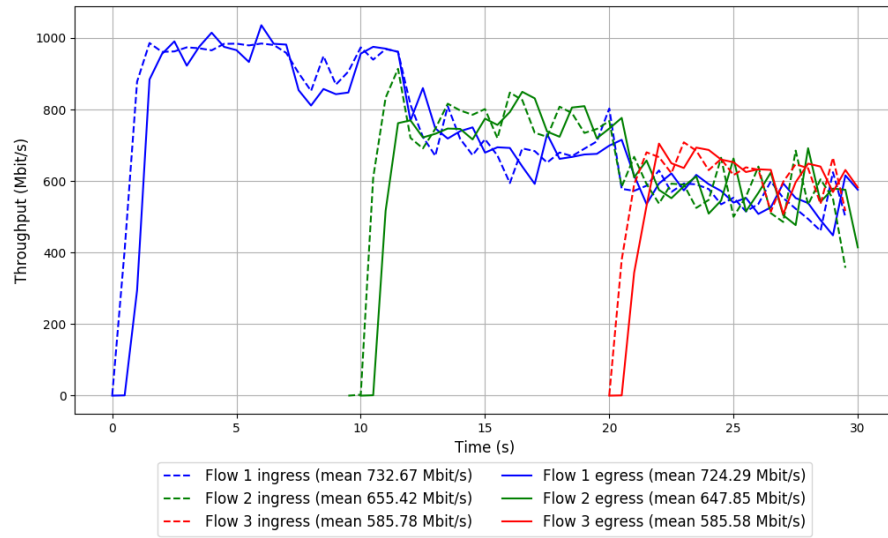


Run 10: Statistics of FillP

Start at: 2018-06-07 08:46:36
End at: 2018-06-07 08:47:06
Local clock offset: 1.252 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 1349.95 Mbit/s
95th percentile per-packet one-way delay: 117.584 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 724.29 Mbit/s
95th percentile per-packet one-way delay: 117.215 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 647.85 Mbit/s
95th percentile per-packet one-way delay: 120.748 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 585.58 Mbit/s
95th percentile per-packet one-way delay: 77.247 ms
Loss rate: 0.01%

Run 10: Report of FillP — Data Link

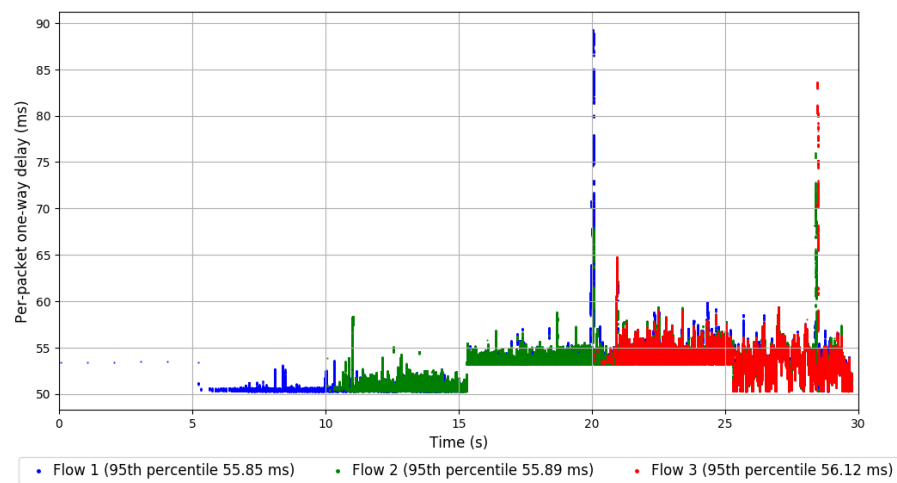
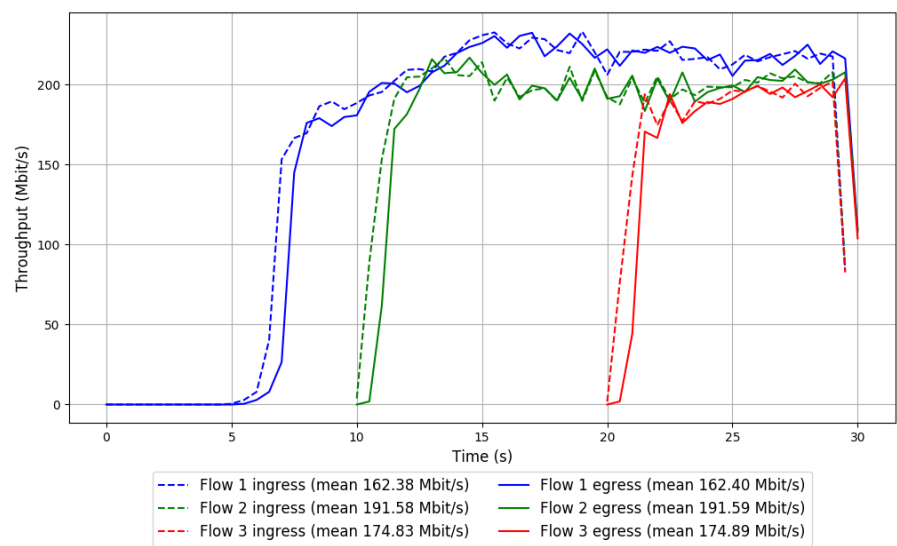


```
Run 1: Statistics of Indigo

Start at: 2018-06-07 05:14:52
End at: 2018-06-07 05:15:22
Local clock offset: -0.024 ms
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-06-07 10:23:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 346.27 Mbit/s
95th percentile per-packet one-way delay: 55.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 162.40 Mbit/s
95th percentile per-packet one-way delay: 55.849 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 191.59 Mbit/s
95th percentile per-packet one-way delay: 55.893 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 174.89 Mbit/s
95th percentile per-packet one-way delay: 56.120 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-07 05:37:35

End at: 2018-06-07 05:38:05

Local clock offset: -0.205 ms

Remote clock offset: -0.66 ms

Below is generated by plot.py at 2018-06-07 10:23:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 419.16 Mbit/s

95th percentile per-packet one-way delay: 54.850 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 240.21 Mbit/s

95th percentile per-packet one-way delay: 54.526 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 194.79 Mbit/s

95th percentile per-packet one-way delay: 54.989 ms

Loss rate: 0.00%

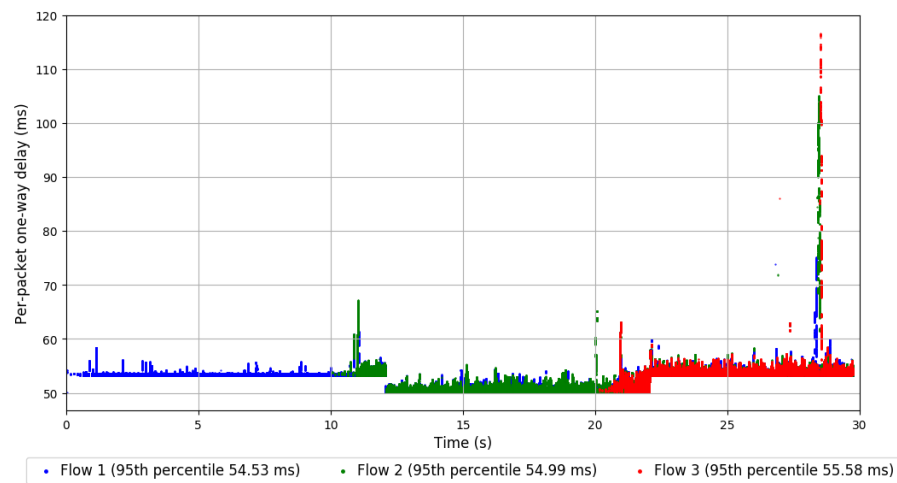
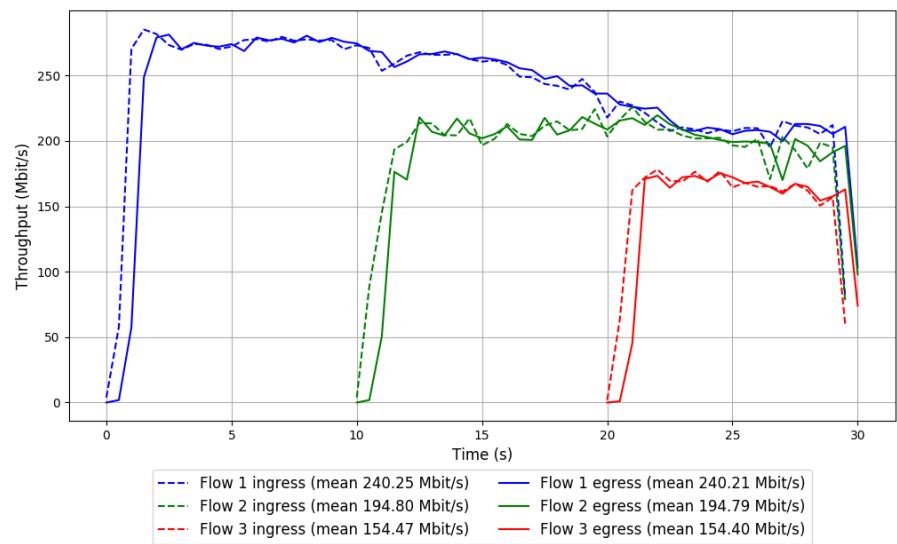
-- Flow 3:

Average throughput: 154.40 Mbit/s

95th percentile per-packet one-way delay: 55.583 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link

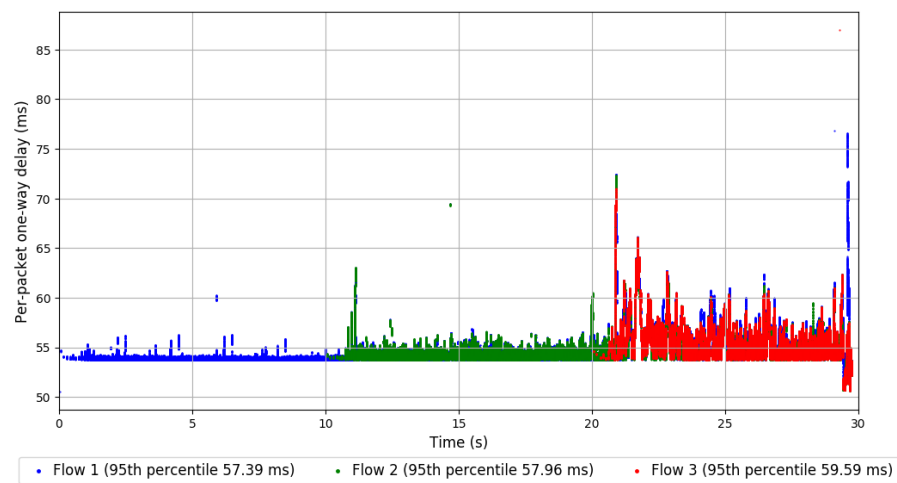
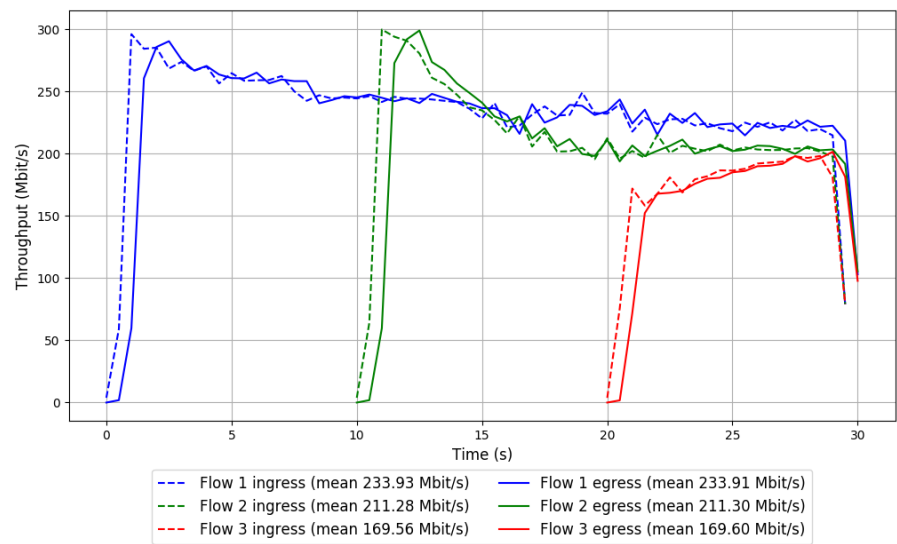


Run 3: Statistics of Indigo

Start at: 2018-06-07 06:00:38
End at: 2018-06-07 06:01:08
Local clock offset: -0.306 ms
Remote clock offset: -0.323 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 429.28 Mbit/s
95th percentile per-packet one-way delay: 58.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.91 Mbit/s
95th percentile per-packet one-way delay: 57.389 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 211.30 Mbit/s
95th percentile per-packet one-way delay: 57.961 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 169.60 Mbit/s
95th percentile per-packet one-way delay: 59.595 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

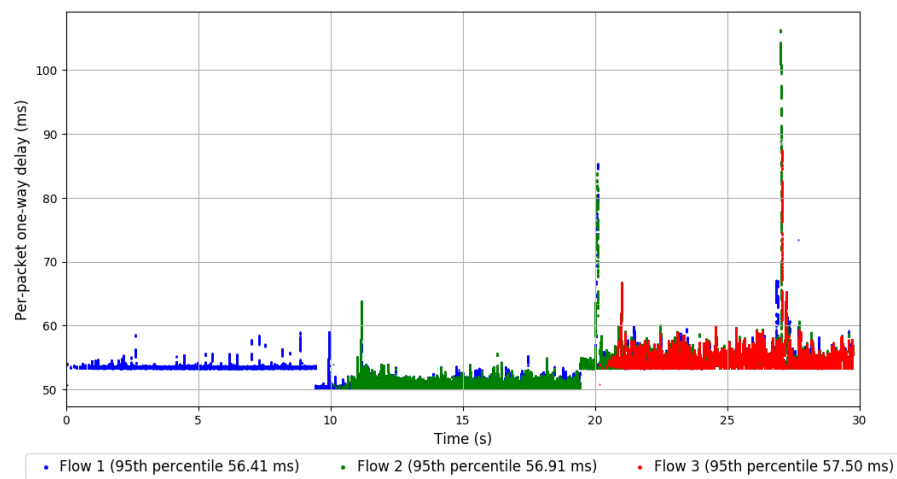
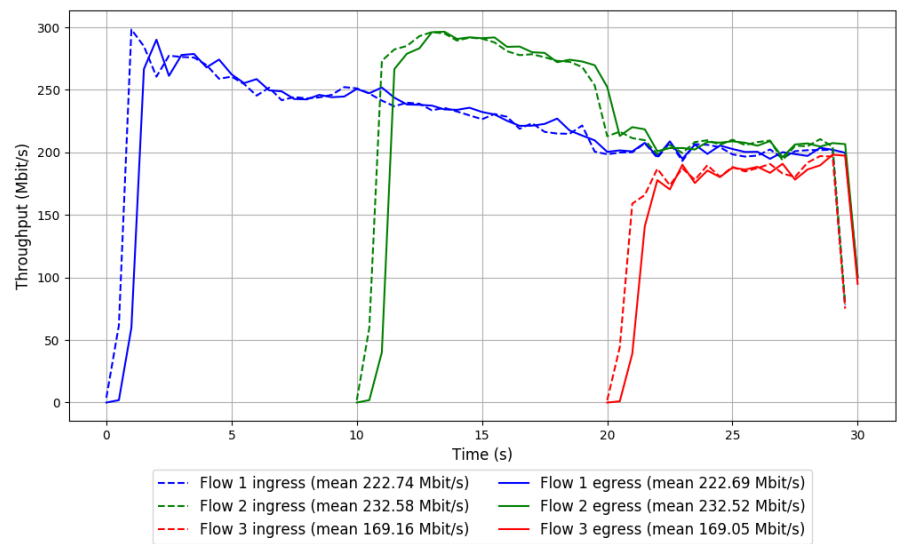


Run 4: Statistics of Indigo

Start at: 2018-06-07 06:23:18
End at: 2018-06-07 06:23:48
Local clock offset: 0.229 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 431.11 Mbit/s
95th percentile per-packet one-way delay: 56.816 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 222.69 Mbit/s
95th percentile per-packet one-way delay: 56.409 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 232.52 Mbit/s
95th percentile per-packet one-way delay: 56.905 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 169.05 Mbit/s
95th percentile per-packet one-way delay: 57.497 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

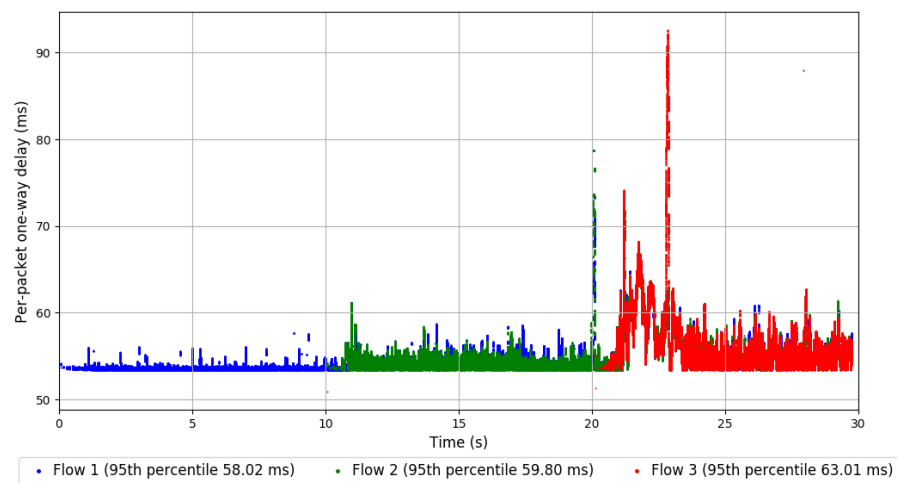
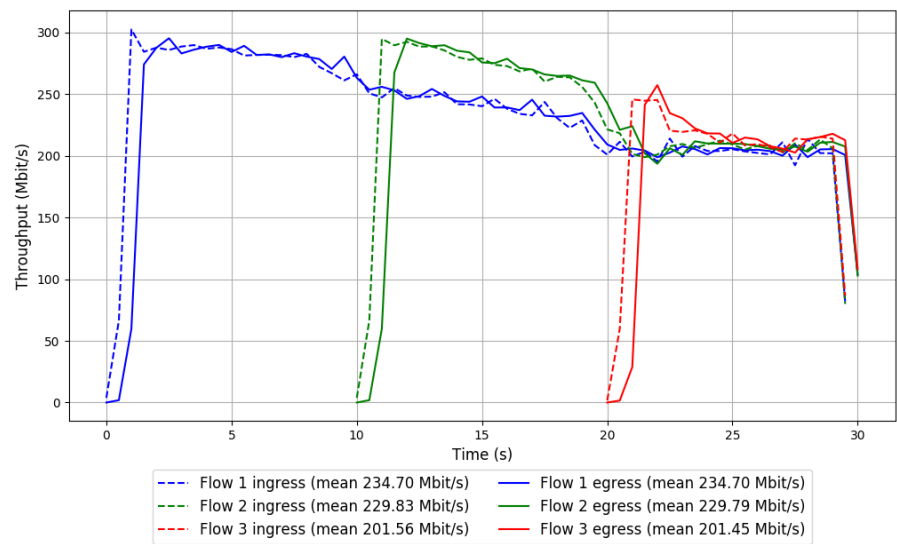


Run 5: Statistics of Indigo

Start at: 2018-06-07 06:46:11
End at: 2018-06-07 06:46:41
Local clock offset: -0.305 ms
Remote clock offset: -0.278 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 452.37 Mbit/s
95th percentile per-packet one-way delay: 59.877 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 234.70 Mbit/s
95th percentile per-packet one-way delay: 58.021 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 229.79 Mbit/s
95th percentile per-packet one-way delay: 59.796 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 201.45 Mbit/s
95th percentile per-packet one-way delay: 63.007 ms
Loss rate: 0.02%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-07 07:08:50

End at: 2018-06-07 07:09:20

Local clock offset: -0.002 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-07 10:23:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 402.46 Mbit/s

95th percentile per-packet one-way delay: 57.178 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 219.03 Mbit/s

95th percentile per-packet one-way delay: 56.436 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 204.25 Mbit/s

95th percentile per-packet one-way delay: 57.534 ms

Loss rate: 0.01%

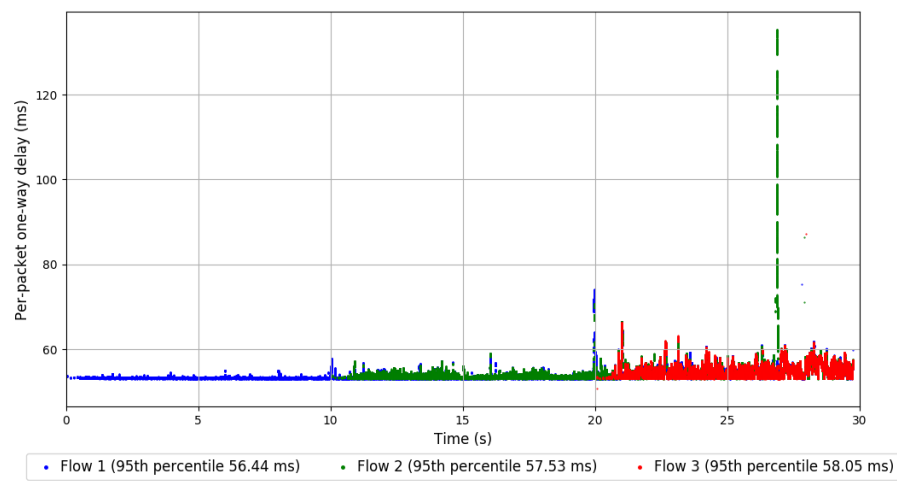
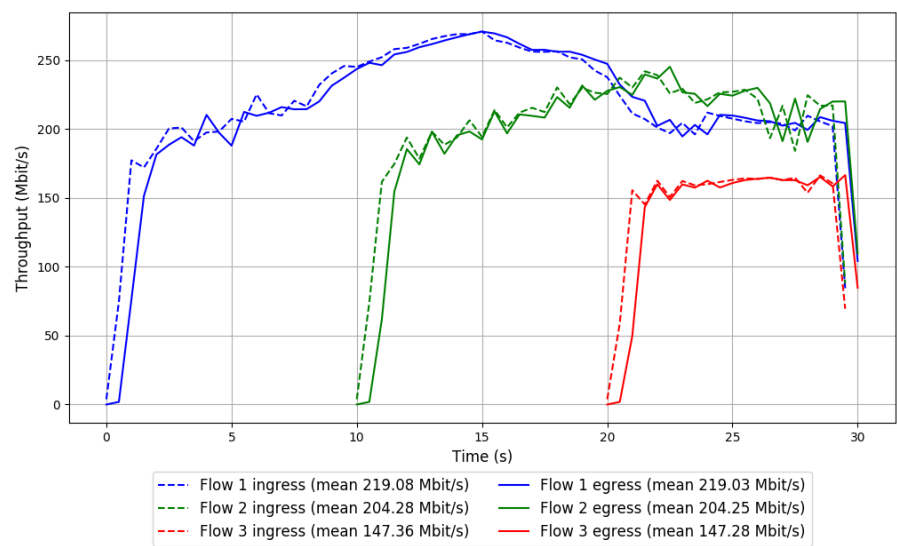
-- Flow 3:

Average throughput: 147.28 Mbit/s

95th percentile per-packet one-way delay: 58.052 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

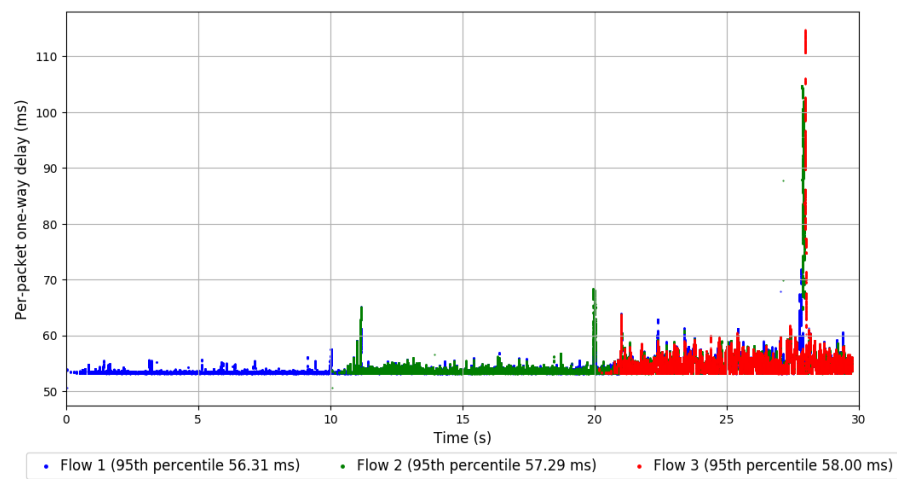
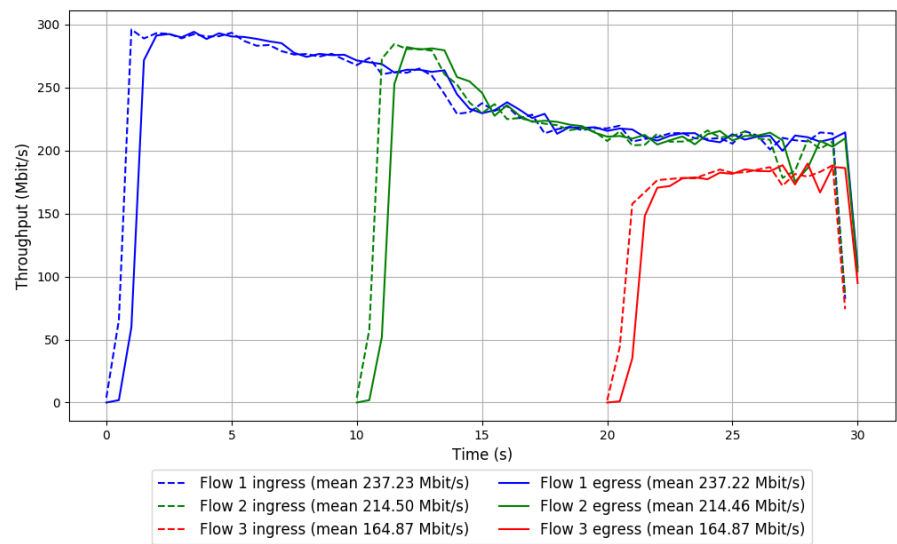


Run 7: Statistics of Indigo

Start at: 2018-06-07 07:32:13
End at: 2018-06-07 07:32:43
Local clock offset: -0.033 ms
Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 432.61 Mbit/s
95th percentile per-packet one-way delay: 57.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 237.22 Mbit/s
95th percentile per-packet one-way delay: 56.314 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 214.46 Mbit/s
95th percentile per-packet one-way delay: 57.287 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 164.87 Mbit/s
95th percentile per-packet one-way delay: 57.997 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

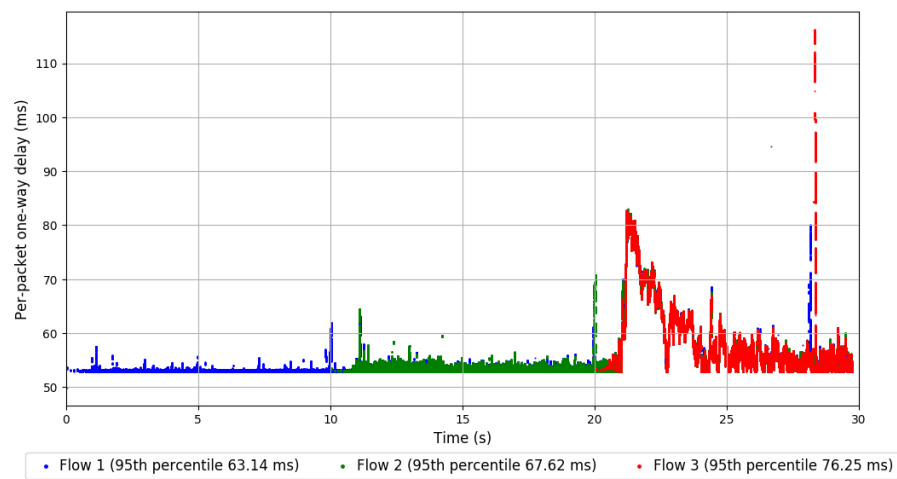
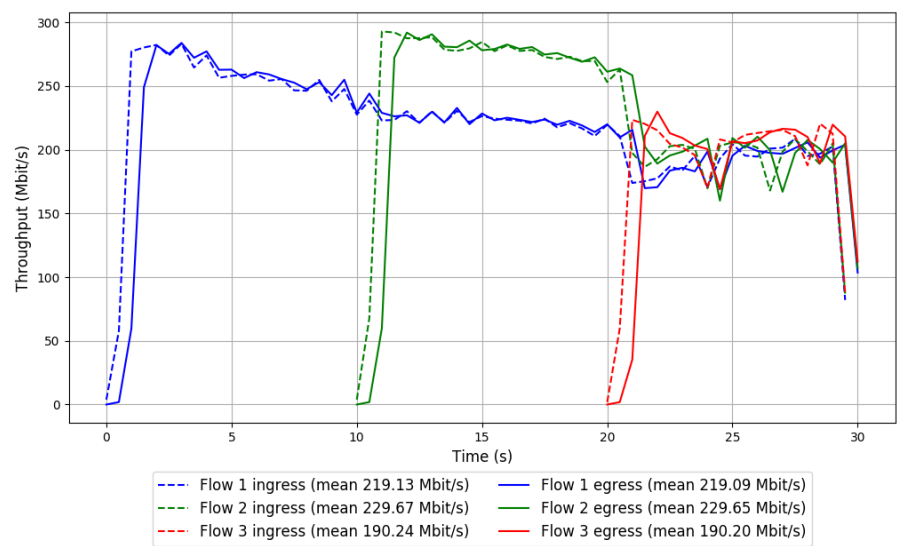


Run 8: Statistics of Indigo

Start at: 2018-06-07 07:55:09
End at: 2018-06-07 07:55:39
Local clock offset: -0.02 ms
Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 433.34 Mbit/s
95th percentile per-packet one-way delay: 68.118 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 219.09 Mbit/s
95th percentile per-packet one-way delay: 63.142 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 229.65 Mbit/s
95th percentile per-packet one-way delay: 67.622 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 190.20 Mbit/s
95th percentile per-packet one-way delay: 76.249 ms
Loss rate: 0.02%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-07 08:17:50

End at: 2018-06-07 08:18:20

Local clock offset: -0.081 ms

Remote clock offset: 0.313 ms

Below is generated by plot.py at 2018-06-07 10:23:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 421.76 Mbit/s

95th percentile per-packet one-way delay: 55.488 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 223.88 Mbit/s

95th percentile per-packet one-way delay: 55.256 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 228.17 Mbit/s

95th percentile per-packet one-way delay: 55.447 ms

Loss rate: 0.00%

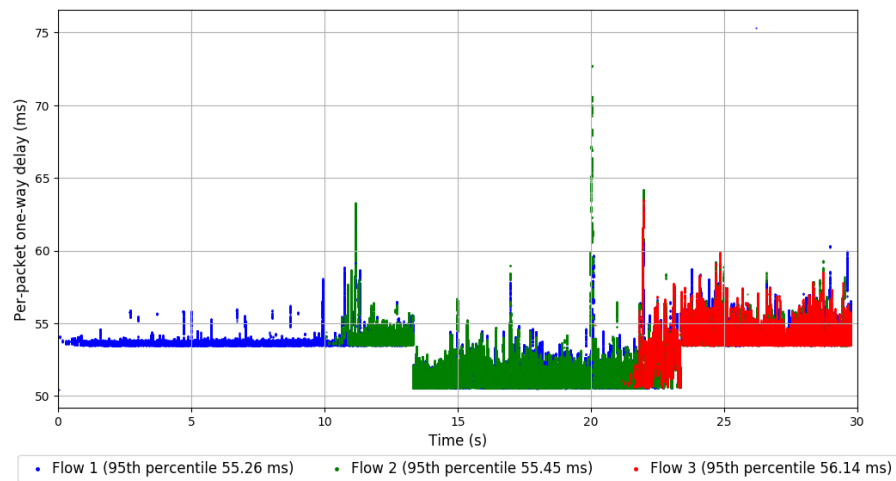
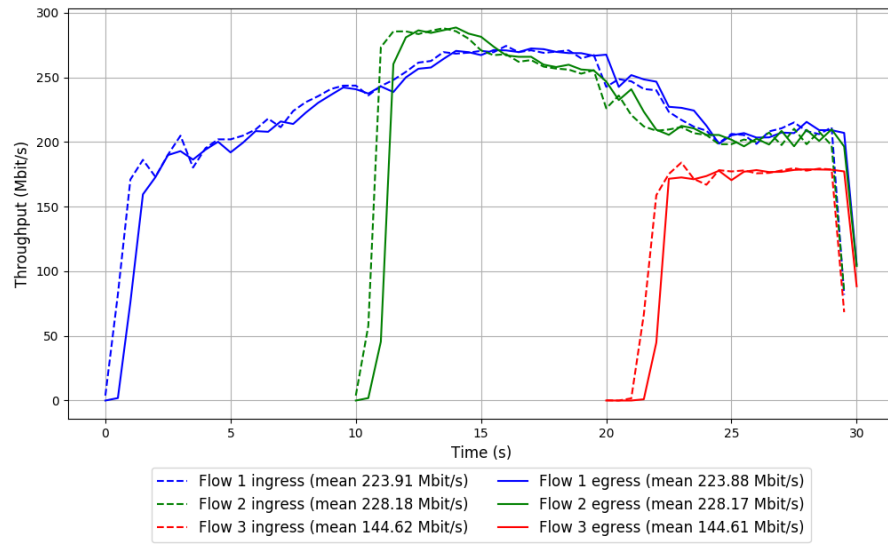
-- Flow 3:

Average throughput: 144.61 Mbit/s

95th percentile per-packet one-way delay: 56.138 ms

Loss rate: 0.01%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-07 08:40:59

End at: 2018-06-07 08:41:29

Local clock offset: 0.328 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-07 10:23:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 446.69 Mbit/s

95th percentile per-packet one-way delay: 57.502 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 236.07 Mbit/s

95th percentile per-packet one-way delay: 56.773 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 230.53 Mbit/s

95th percentile per-packet one-way delay: 57.749 ms

Loss rate: 0.00%

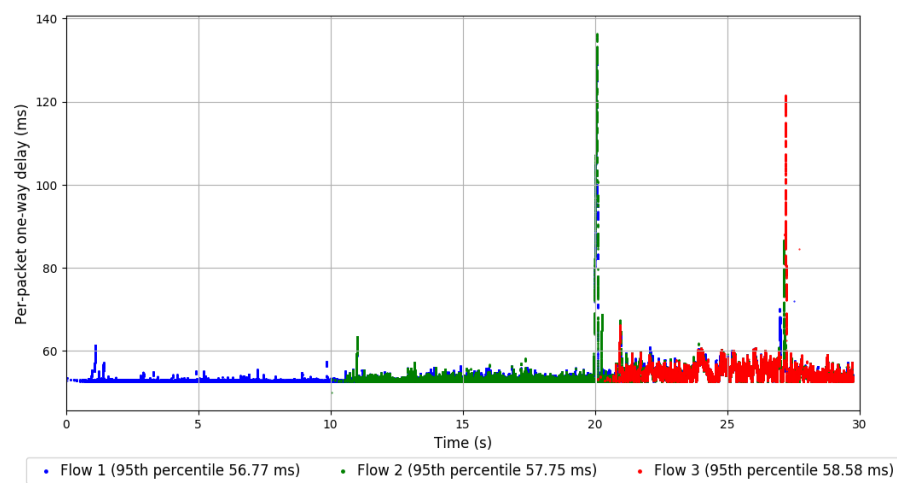
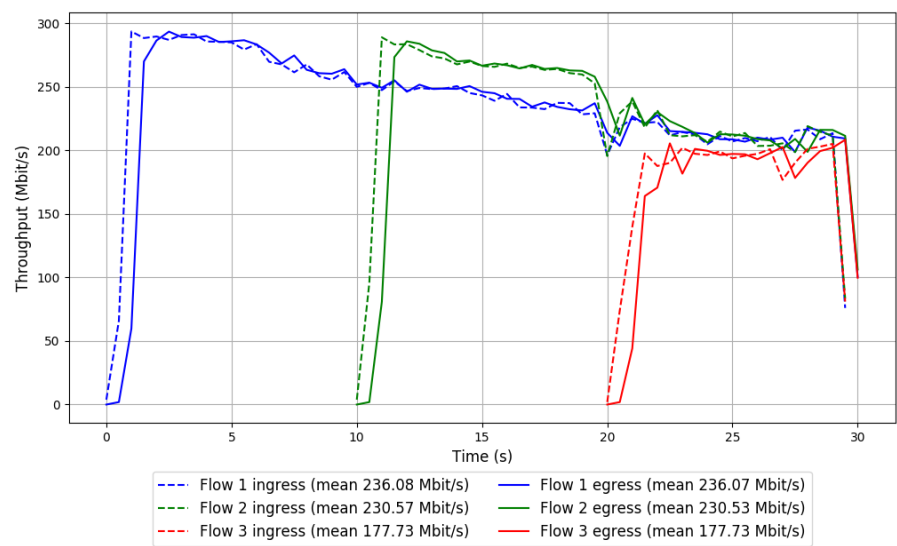
-- Flow 3:

Average throughput: 177.73 Mbit/s

95th percentile per-packet one-way delay: 58.576 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

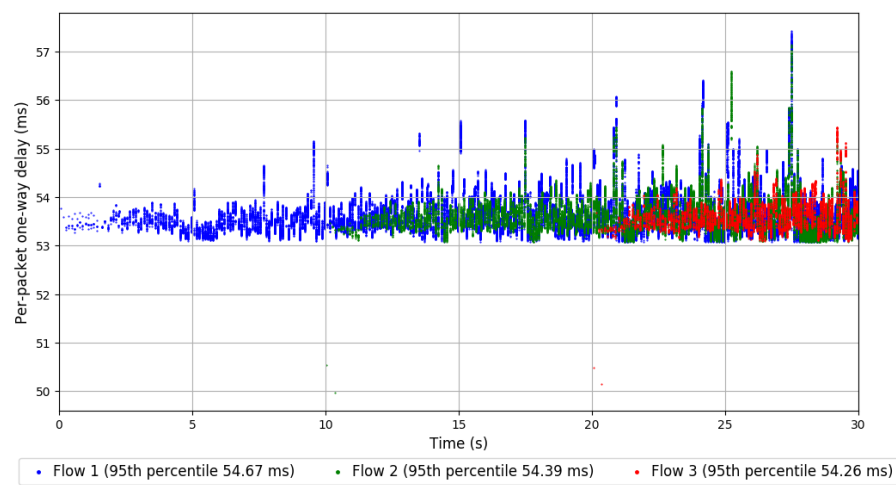
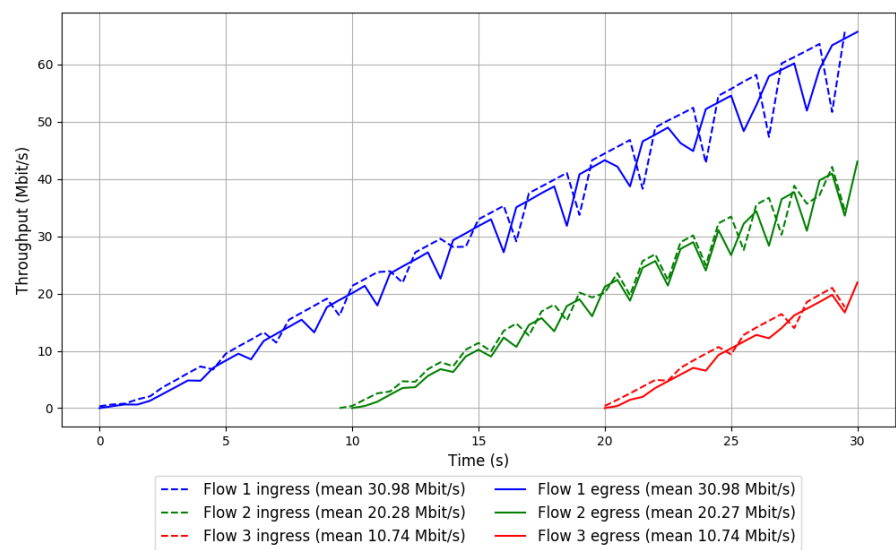


Run 1: Statistics of LEDBAT

Start at: 2018-06-07 05:10:53
End at: 2018-06-07 05:11:23
Local clock offset: 0.027 ms
Remote clock offset: -0.285 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.01 Mbit/s
95th percentile per-packet one-way delay: 54.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 54.675 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 54.391 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 54.260 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

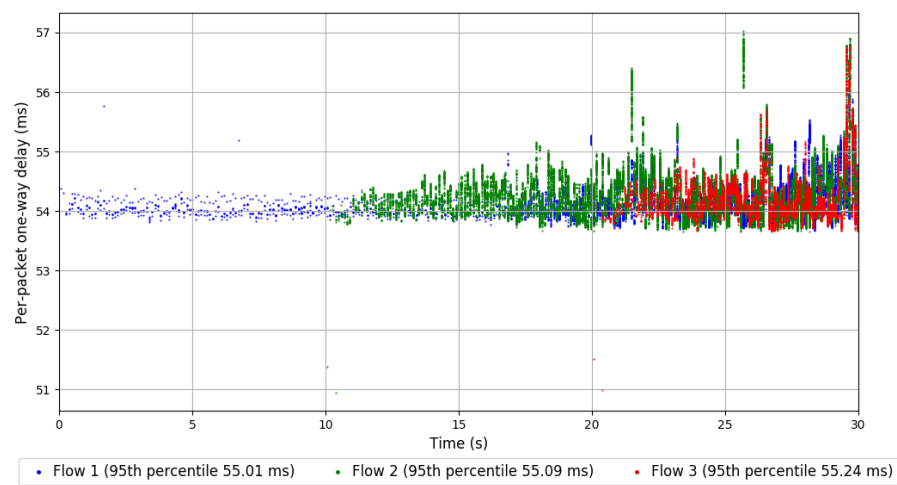
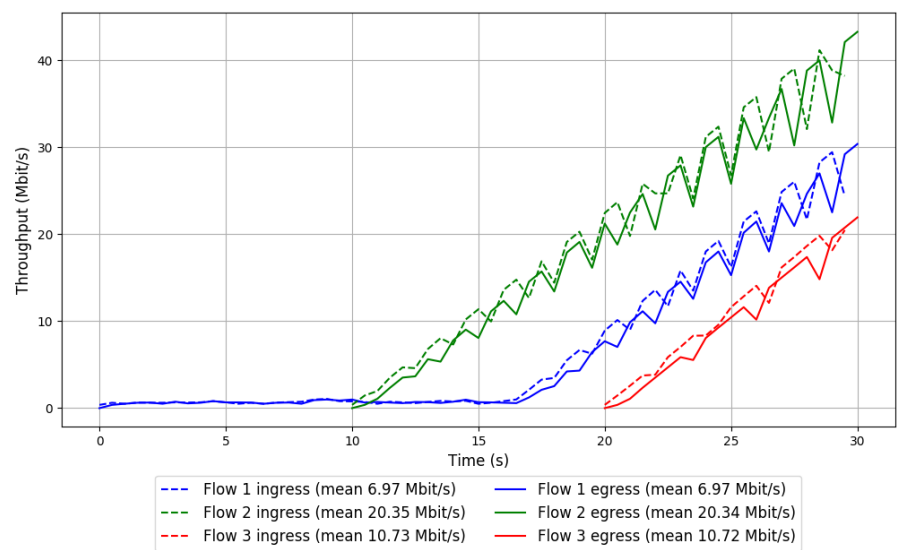


Run 2: Statistics of LEDBAT

Start at: 2018-06-07 05:33:33
End at: 2018-06-07 05:34:03
Local clock offset: -0.172 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 24.06 Mbit/s
95th percentile per-packet one-way delay: 55.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 55.006 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 55.086 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.72 Mbit/s
95th percentile per-packet one-way delay: 55.237 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

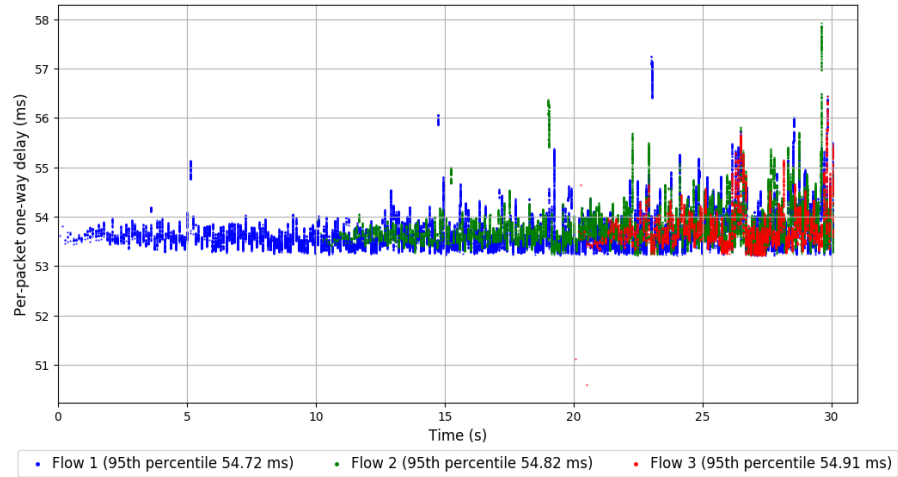
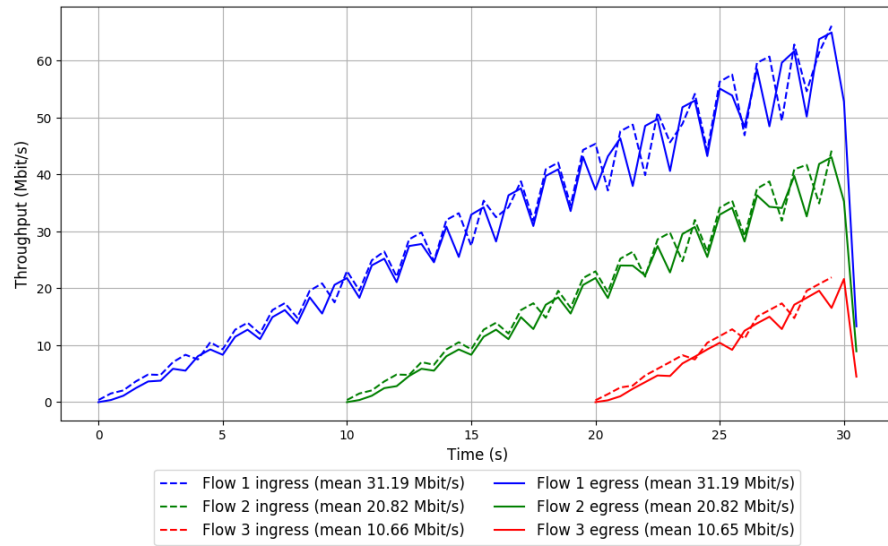


Run 3: Statistics of LEDBAT

Start at: 2018-06-07 05:56:38
End at: 2018-06-07 05:57:08
Local clock offset: -0.062 ms
Remote clock offset: -0.609 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 54.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.19 Mbit/s
95th percentile per-packet one-way delay: 54.717 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 54.822 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 54.911 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

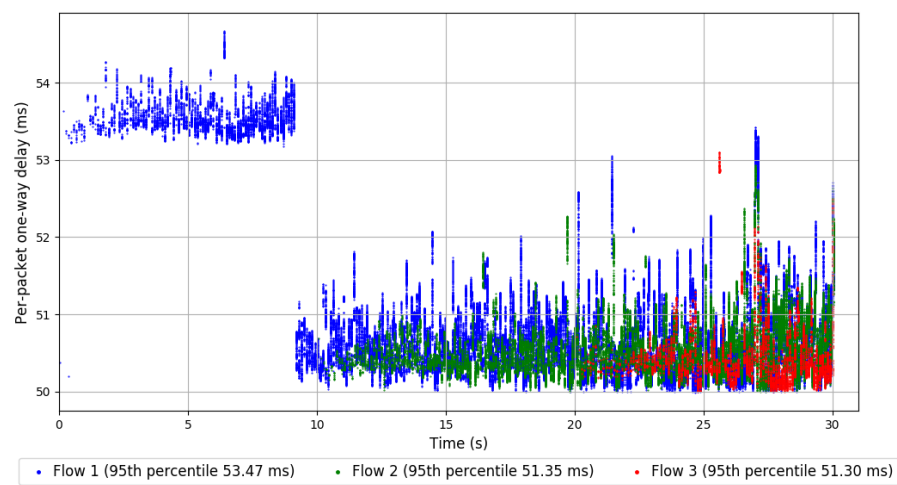
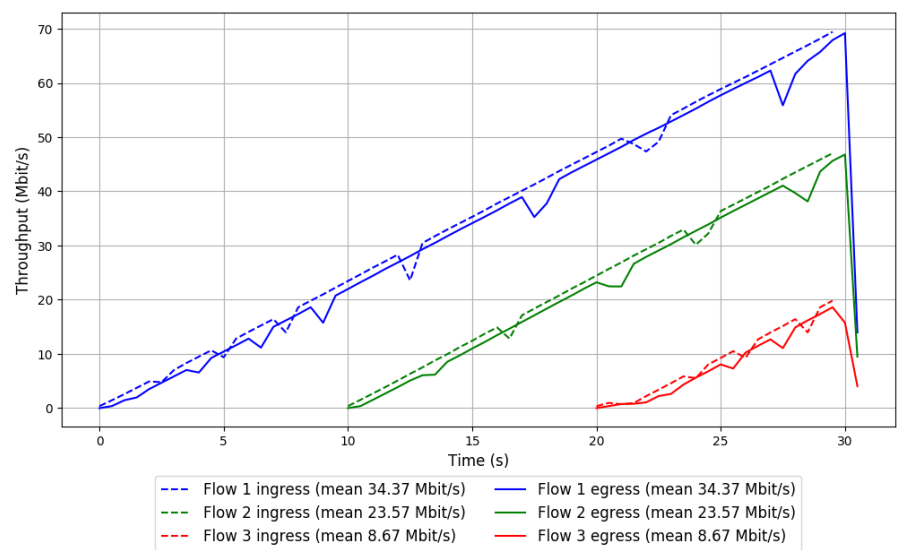


Run 4: Statistics of LEDBAT

Start at: 2018-06-07 06:19:19
End at: 2018-06-07 06:19:49
Local clock offset: -0.019 ms
Remote clock offset: -0.718 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.95 Mbit/s
95th percentile per-packet one-way delay: 53.340 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.37 Mbit/s
95th percentile per-packet one-way delay: 53.471 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 51.347 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 51.303 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

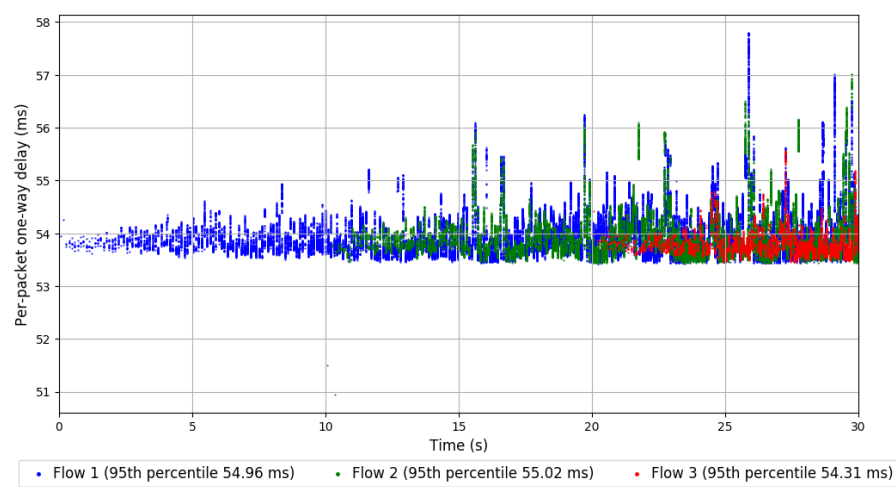
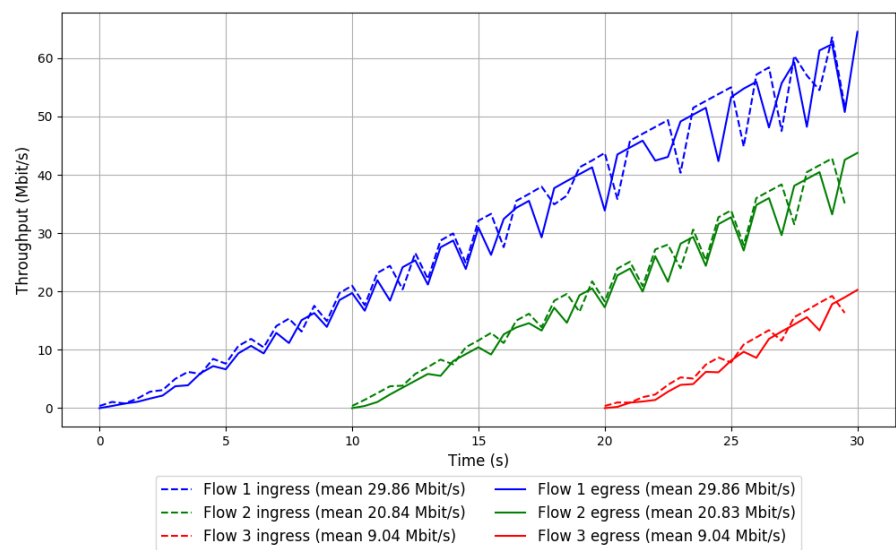


Run 5: Statistics of LEDBAT

Start at: 2018-06-07 06:42:05
End at: 2018-06-07 06:42:35
Local clock offset: -0.056 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 46.70 Mbit/s
95th percentile per-packet one-way delay: 54.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 54.958 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.83 Mbit/s
95th percentile per-packet one-way delay: 55.018 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.04 Mbit/s
95th percentile per-packet one-way delay: 54.315 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-07 07:04:57

End at: 2018-06-07 07:05:27

Local clock offset: -0.146 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-07 10:23:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.66 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.54 Mbit/s

95th percentile per-packet one-way delay: 54.890 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.23 Mbit/s

95th percentile per-packet one-way delay: 54.597 ms

Loss rate: 0.00%

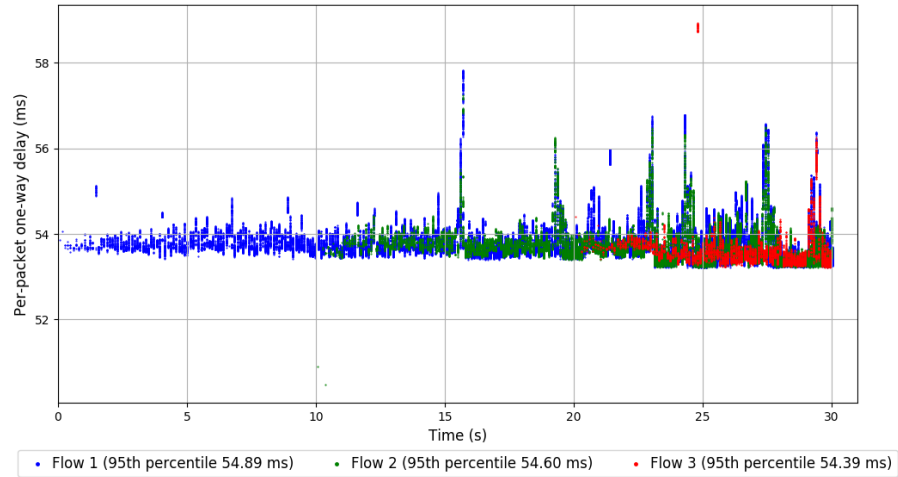
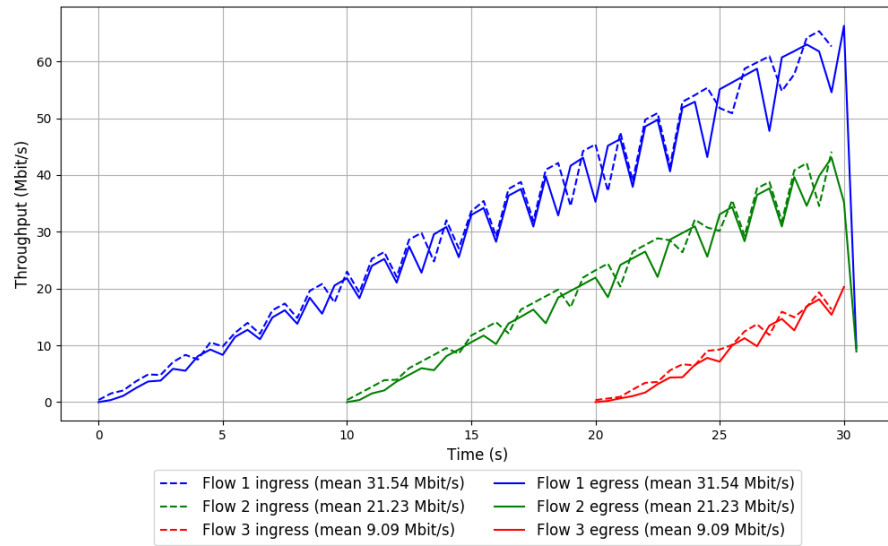
-- Flow 3:

Average throughput: 9.09 Mbit/s

95th percentile per-packet one-way delay: 54.393 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-07 07:28:02

End at: 2018-06-07 07:28:32

Local clock offset: -0.141 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-06-07 10:23:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.98 Mbit/s

95th percentile per-packet one-way delay: 54.374 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.52 Mbit/s

95th percentile per-packet one-way delay: 54.322 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.72 Mbit/s

95th percentile per-packet one-way delay: 54.486 ms

Loss rate: 0.00%

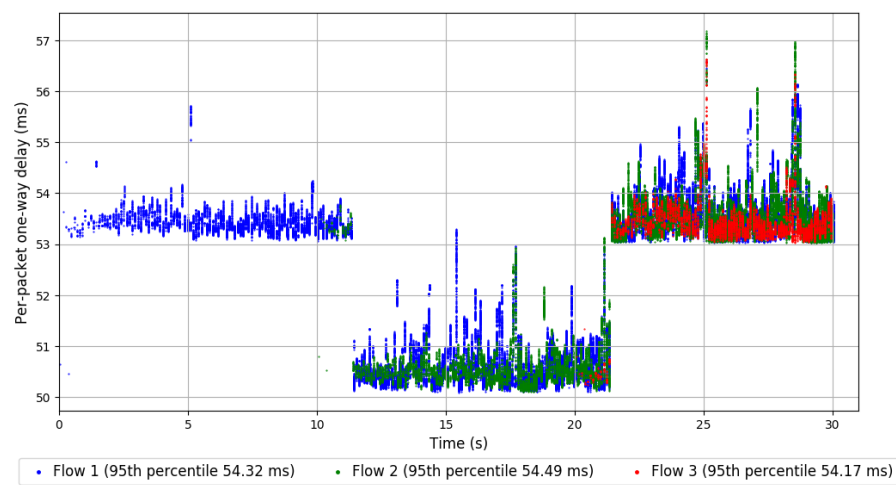
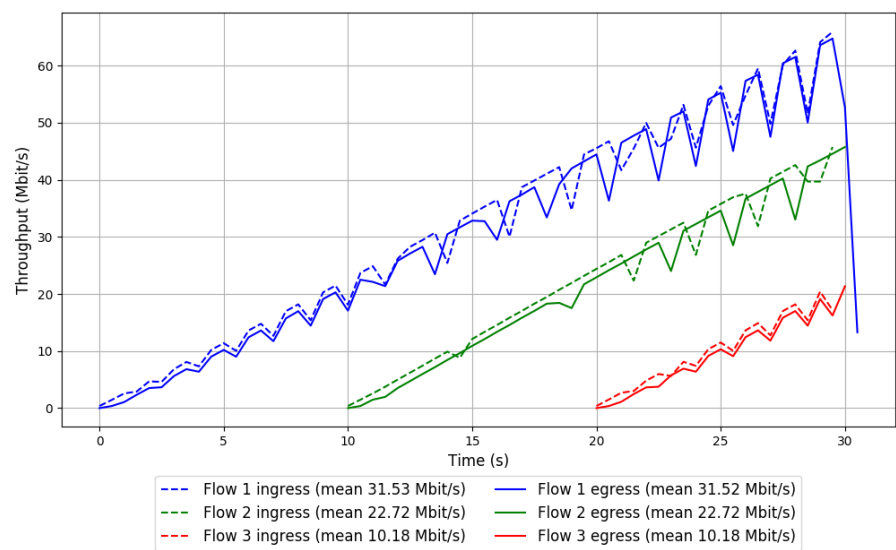
-- Flow 3:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 54.171 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

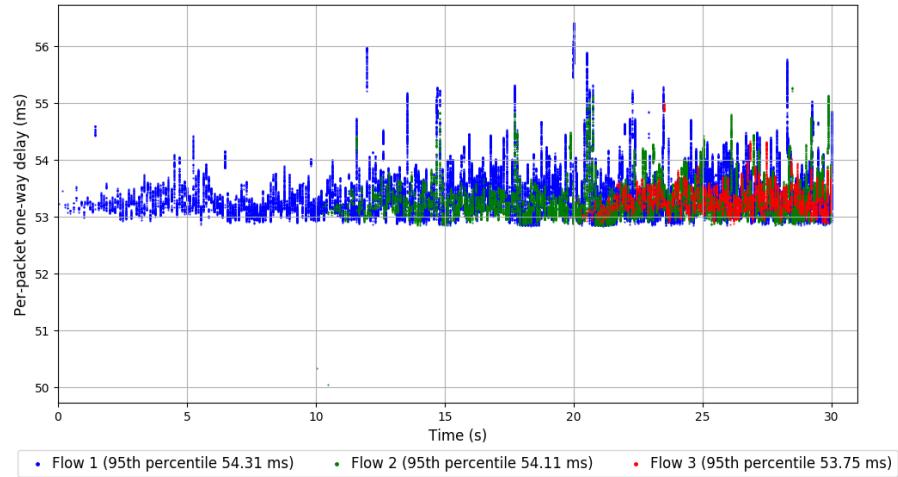
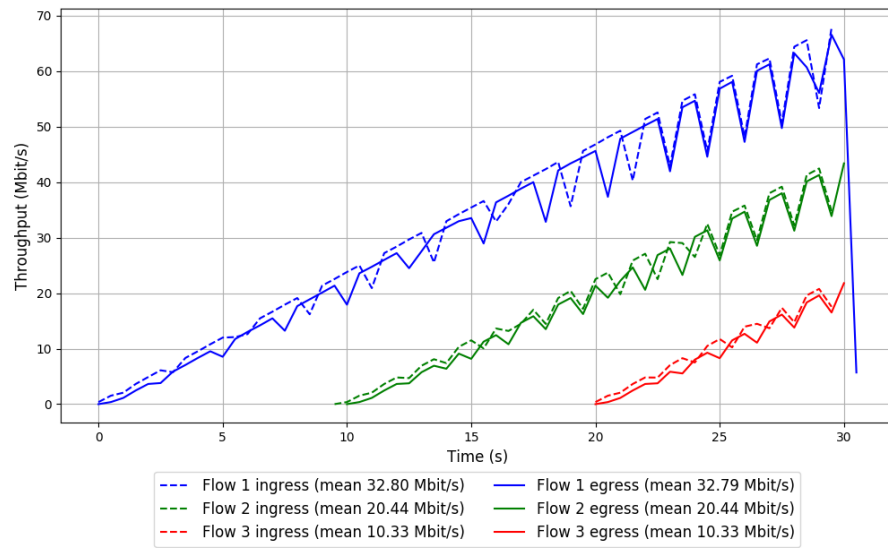


Run 8: Statistics of LEDBAT

Start at: 2018-06-07 07:50:59
End at: 2018-06-07 07:51:29
Local clock offset: -0.09 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-06-07 10:23:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.80 Mbit/s
95th percentile per-packet one-way delay: 54.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.79 Mbit/s
95th percentile per-packet one-way delay: 54.308 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.44 Mbit/s
95th percentile per-packet one-way delay: 54.112 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.33 Mbit/s
95th percentile per-packet one-way delay: 53.746 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

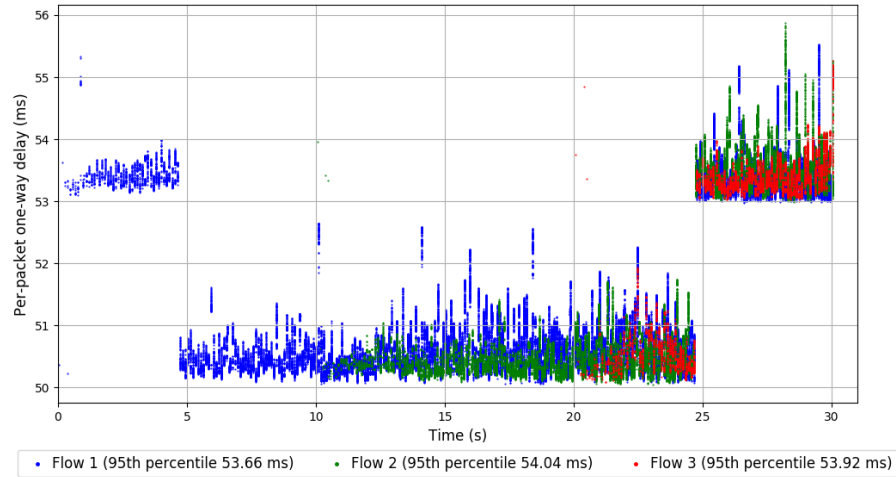
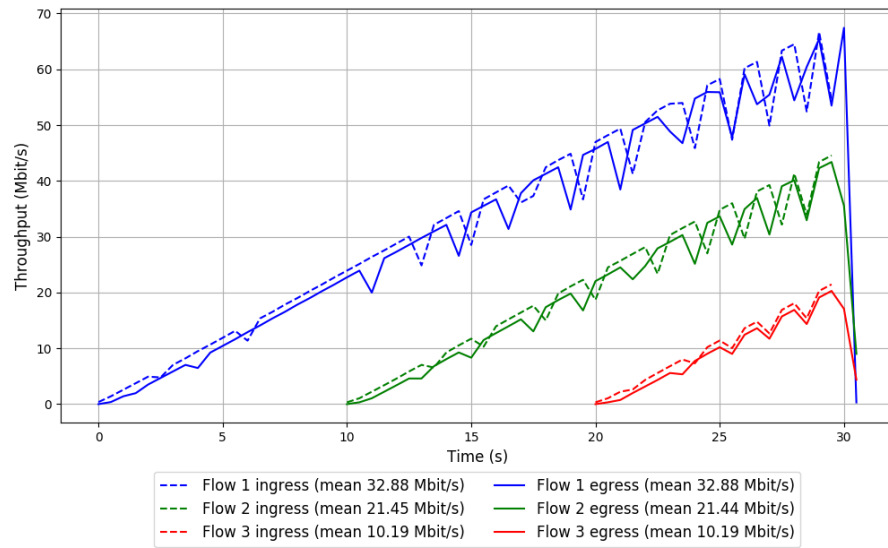


Run 9: Statistics of LEDBAT

Start at: 2018-06-07 08:13:48
End at: 2018-06-07 08:14:18
Local clock offset: 0.019 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-06-07 10:23:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.54 Mbit/s
95th percentile per-packet one-way delay: 53.822 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 53.658 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 53.917 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-07 08:36:47

End at: 2018-06-07 08:37:17

Local clock offset: -1.83 ms

Remote clock offset: 0.206 ms

Below is generated by plot.py at 2018-06-07 10:23:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 56.627 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 56.649 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 56.512 ms

Loss rate: 0.00%

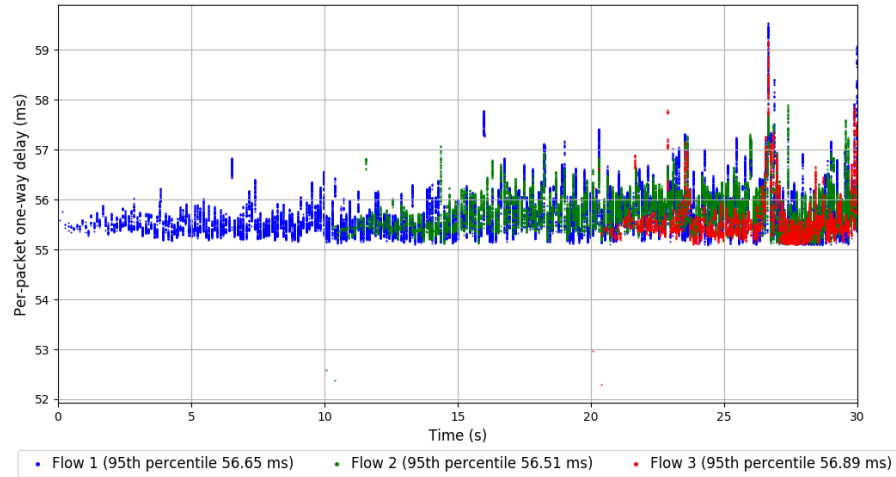
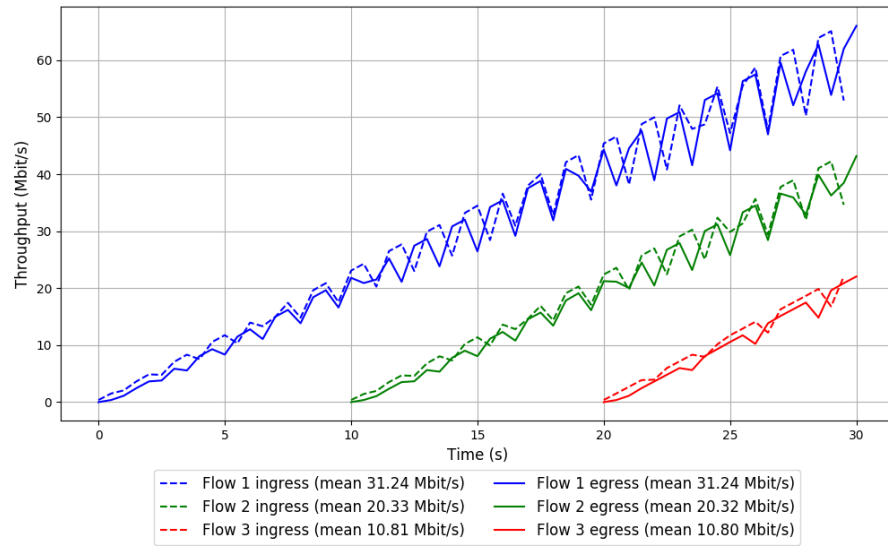
-- Flow 3:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 56.891 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

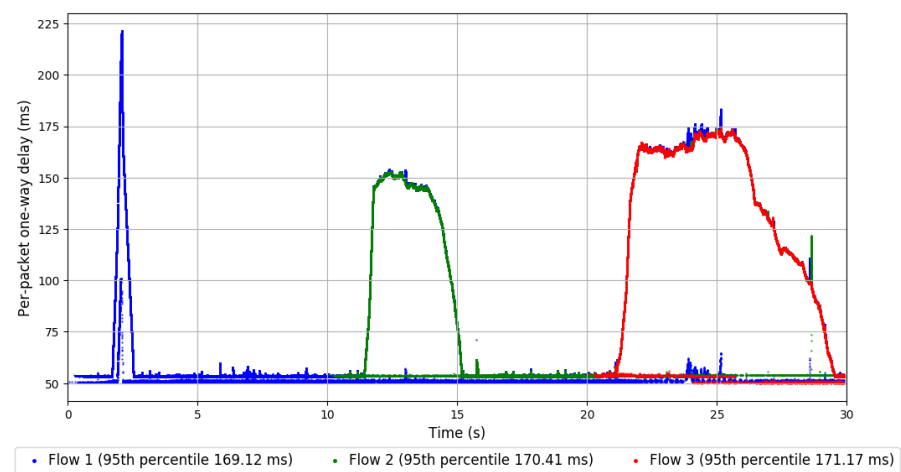
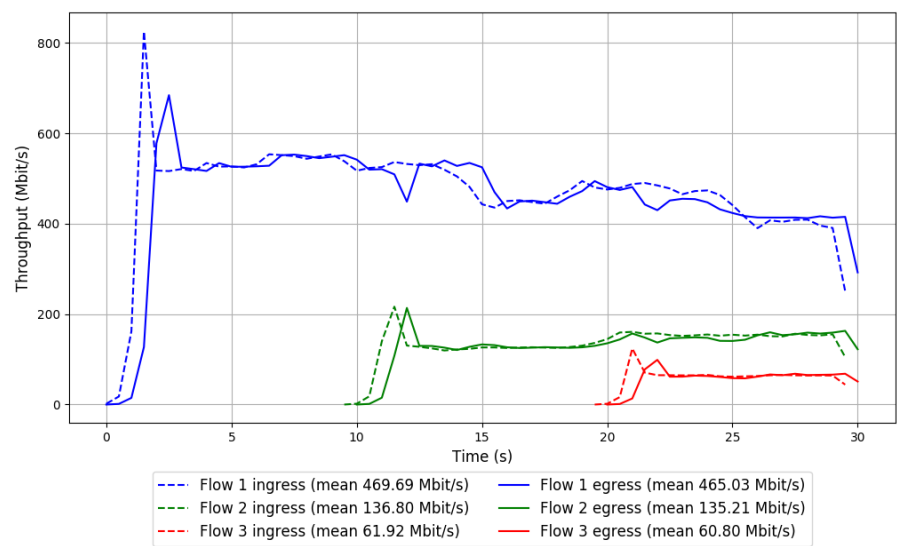


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-07 05:18:54
End at: 2018-06-07 05:19:24
Local clock offset: -0.095 ms
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-06-07 10:23:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 575.04 Mbit/s
95th percentile per-packet one-way delay: 169.741 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 465.03 Mbit/s
95th percentile per-packet one-way delay: 169.124 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 135.21 Mbit/s
95th percentile per-packet one-way delay: 170.405 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 60.80 Mbit/s
95th percentile per-packet one-way delay: 171.166 ms
Loss rate: 1.81%
```


Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-07 05:41:41

End at: 2018-06-07 05:42:11

Local clock offset: 0.168 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-06-07 10:23:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 572.55 Mbit/s

95th percentile per-packet one-way delay: 170.451 ms

Loss rate: 0.95%

-- Flow 1:

Average throughput: 501.75 Mbit/s

95th percentile per-packet one-way delay: 170.343 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 90.31 Mbit/s

95th percentile per-packet one-way delay: 170.777 ms

Loss rate: 0.92%

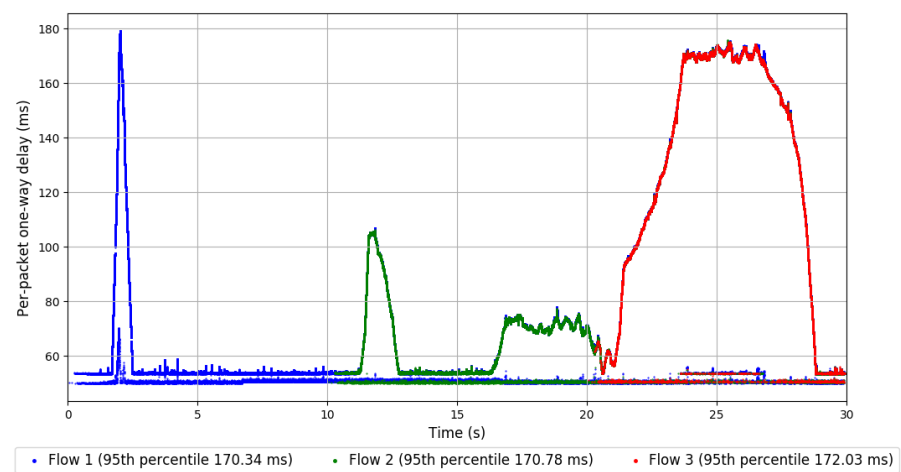
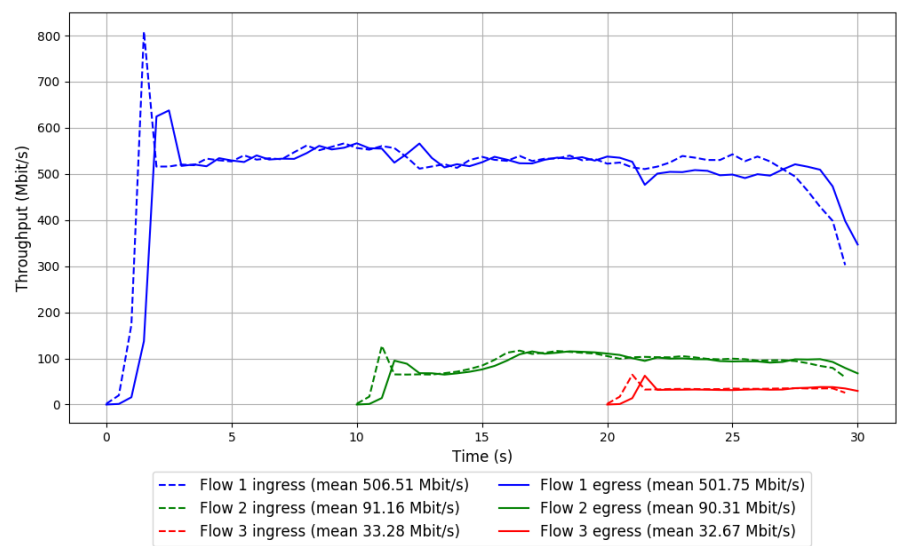
-- Flow 3:

Average throughput: 32.67 Mbit/s

95th percentile per-packet one-way delay: 172.025 ms

Loss rate: 1.80%

Run 2: Report of PCC-Allegro — Data Link

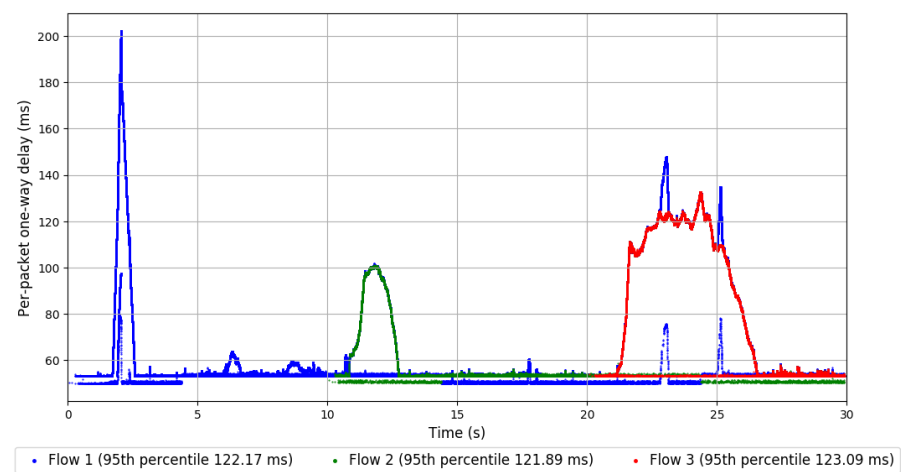
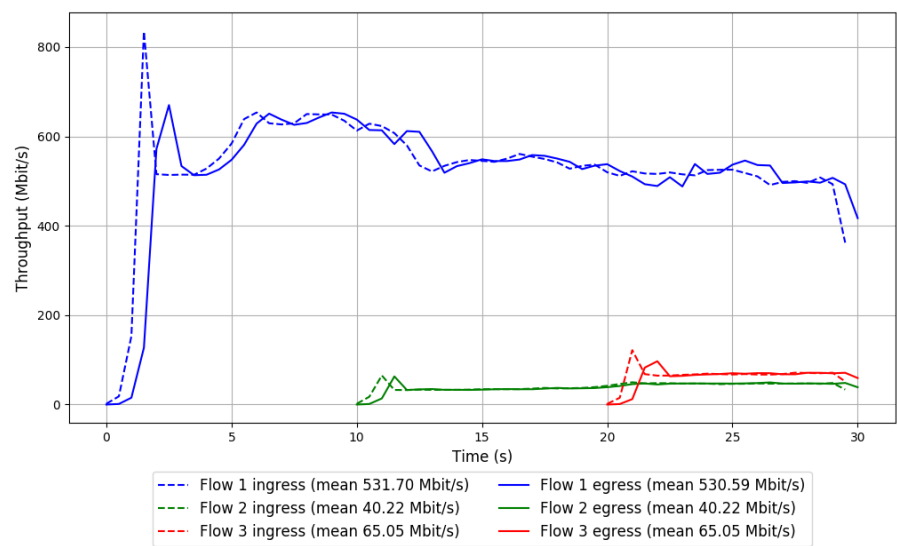


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-07 06:04:43
End at: 2018-06-07 06:05:13
Local clock offset: 0.124 ms
Remote clock offset: -0.637 ms

Below is generated by plot.py at 2018-06-07 10:23:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 578.75 Mbit/s
95th percentile per-packet one-way delay: 122.259 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 530.59 Mbit/s
95th percentile per-packet one-way delay: 122.175 ms
Loss rate: 0.20%
-- Flow 2:
Average throughput: 40.22 Mbit/s
95th percentile per-packet one-way delay: 121.886 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.05 Mbit/s
95th percentile per-packet one-way delay: 123.090 ms
Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link

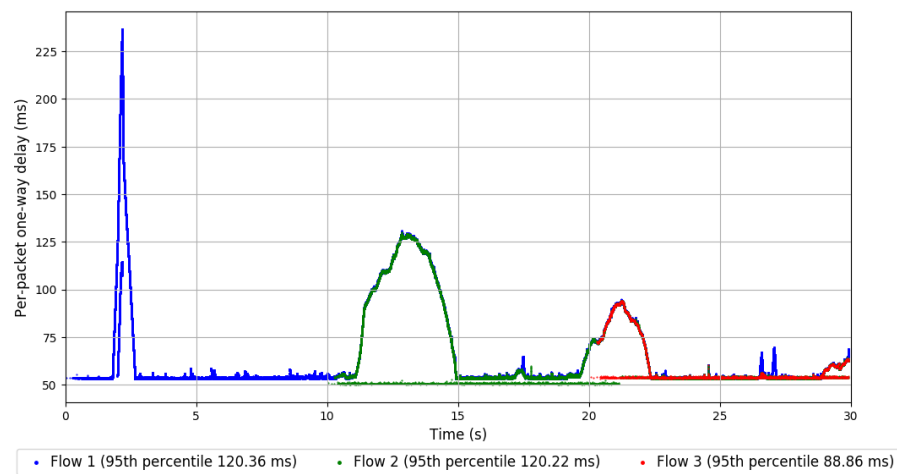
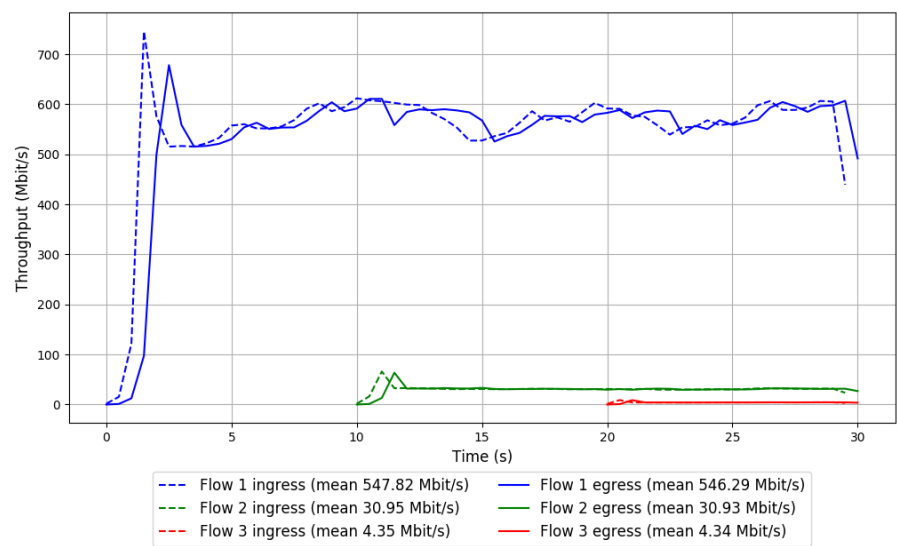


Run 4: Statistics of PCC-Allegro

Start at: 2018-06-07 06:27:22
End at: 2018-06-07 06:27:52
Local clock offset: -0.144 ms
Remote clock offset: -0.728 ms

Below is generated by plot.py at 2018-06-07 10:23:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 568.23 Mbit/s
95th percentile per-packet one-way delay: 120.329 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 546.29 Mbit/s
95th percentile per-packet one-way delay: 120.361 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 30.93 Mbit/s
95th percentile per-packet one-way delay: 120.225 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 88.865 ms
Loss rate: 0.06%

Run 4: Report of PCC-Allegro — Data Link

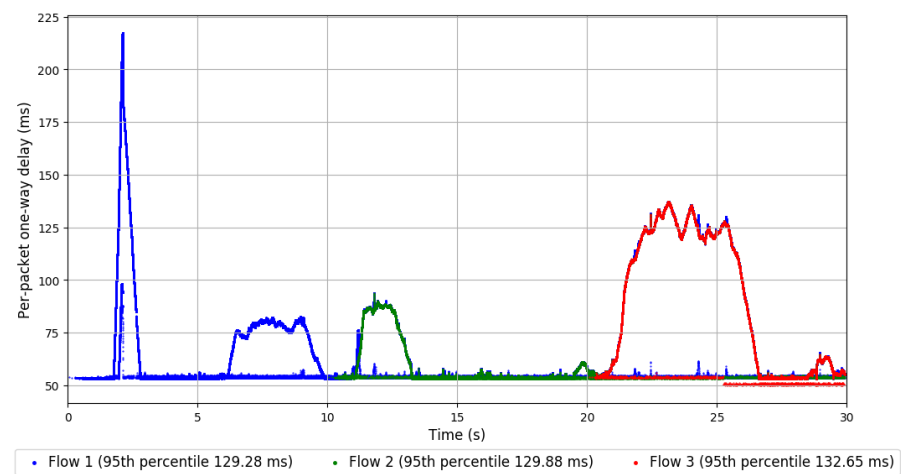
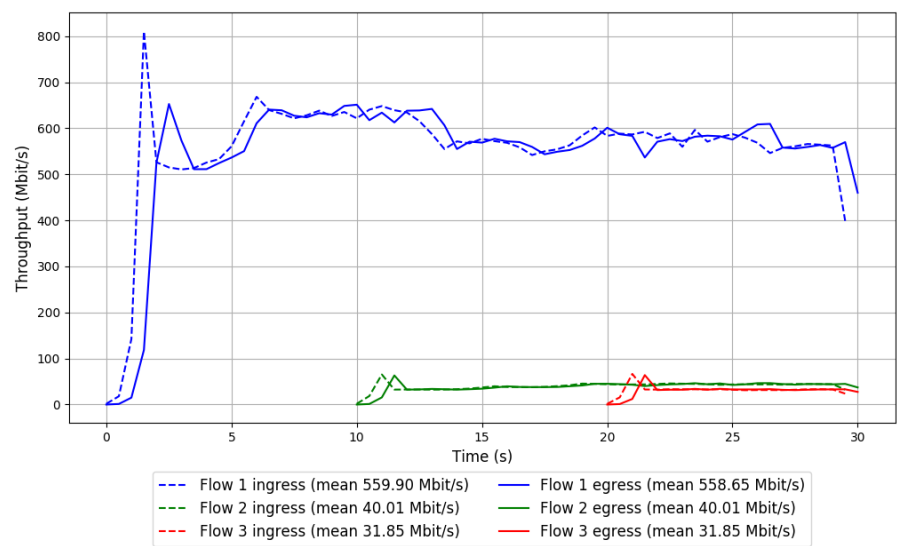


Run 5: Statistics of PCC-Allegro

Start at: 2018-06-07 06:50:18
End at: 2018-06-07 06:50:48
Local clock offset: 0.102 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-07 10:23:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 595.73 Mbit/s
95th percentile per-packet one-way delay: 129.467 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 558.65 Mbit/s
95th percentile per-packet one-way delay: 129.283 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 40.01 Mbit/s
95th percentile per-packet one-way delay: 129.875 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 31.85 Mbit/s
95th percentile per-packet one-way delay: 132.646 ms
Loss rate: 0.01%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-07 07:12:54

End at: 2018-06-07 07:13:24

Local clock offset: 0.22 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-07 10:24:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 574.47 Mbit/s

95th percentile per-packet one-way delay: 163.528 ms

Loss rate: 0.30%

-- Flow 1:

Average throughput: 566.11 Mbit/s

95th percentile per-packet one-way delay: 163.736 ms

Loss rate: 0.31%

-- Flow 2:

Average throughput: 4.58 Mbit/s

95th percentile per-packet one-way delay: 161.295 ms

Loss rate: 0.13%

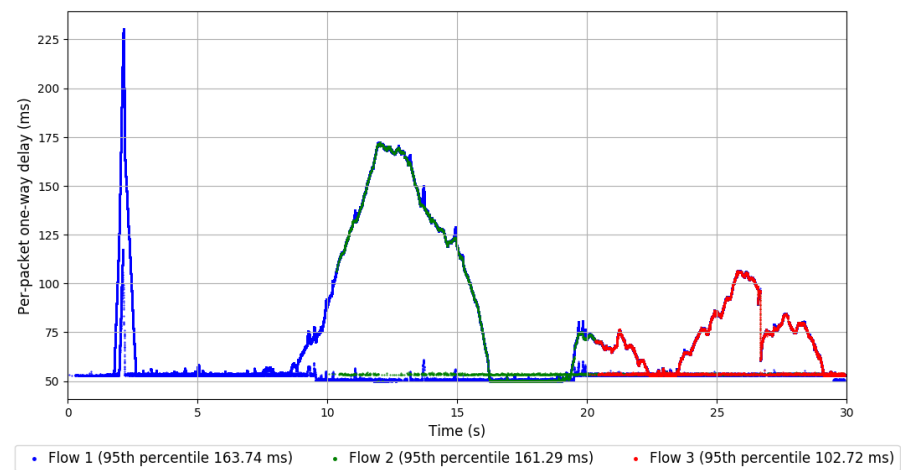
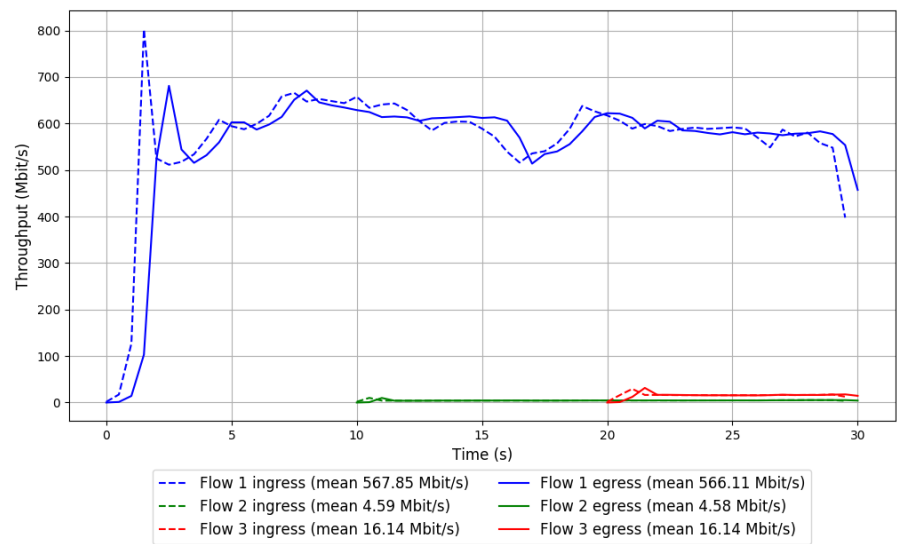
-- Flow 3:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 102.724 ms

Loss rate: 0.00%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-07 07:36:17

End at: 2018-06-07 07:36:47

Local clock offset: -0.481 ms

Remote clock offset: 0.326 ms

Below is generated by plot.py at 2018-06-07 10:29:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 558.67 Mbit/s

95th percentile per-packet one-way delay: 164.636 ms

Loss rate: 0.25%

-- Flow 1:

Average throughput: 500.16 Mbit/s

95th percentile per-packet one-way delay: 164.546 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 70.20 Mbit/s

95th percentile per-packet one-way delay: 164.737 ms

Loss rate: 0.03%

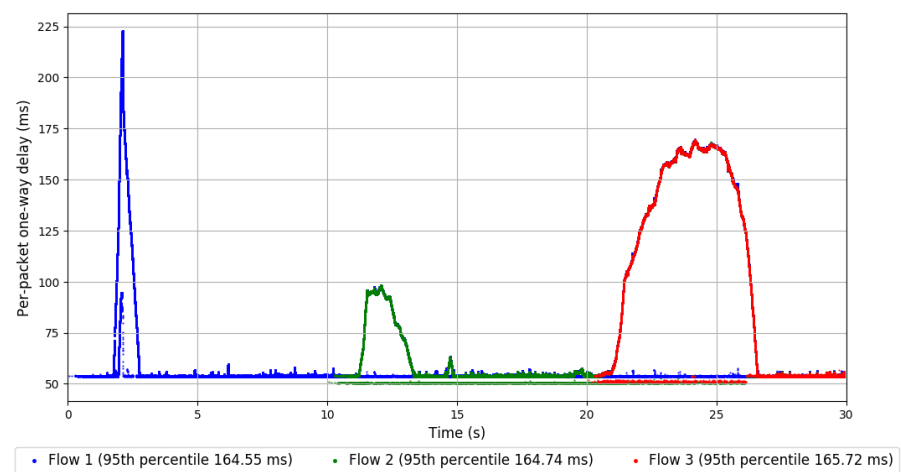
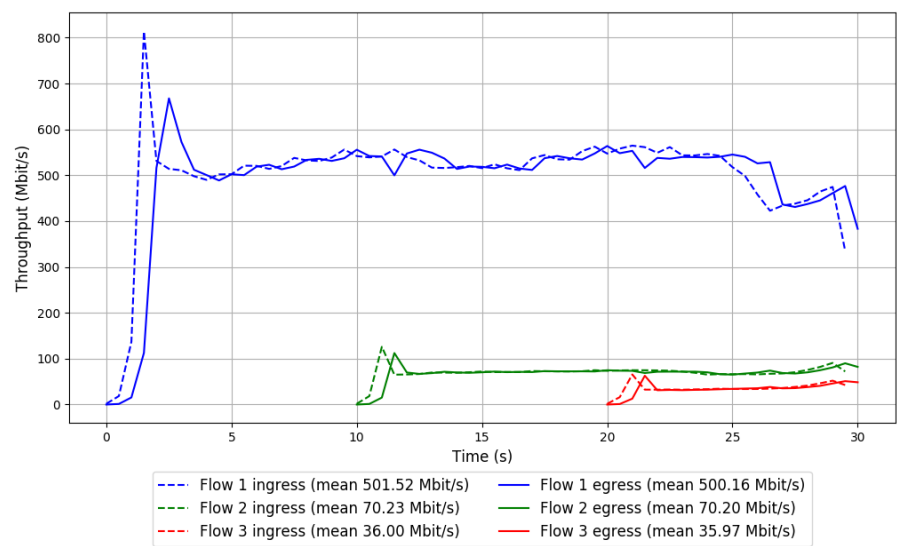
-- Flow 3:

Average throughput: 35.97 Mbit/s

95th percentile per-packet one-way delay: 165.719 ms

Loss rate: 0.04%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-07 07:59:15

End at: 2018-06-07 07:59:45

Local clock offset: -0.236 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-06-07 10:29:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 582.28 Mbit/s

95th percentile per-packet one-way delay: 171.533 ms

Loss rate: 3.84%

-- Flow 1:

Average throughput: 539.09 Mbit/s

95th percentile per-packet one-way delay: 171.534 ms

Loss rate: 3.88%

-- Flow 2:

Average throughput: 63.93 Mbit/s

95th percentile per-packet one-way delay: 171.546 ms

Loss rate: 3.38%

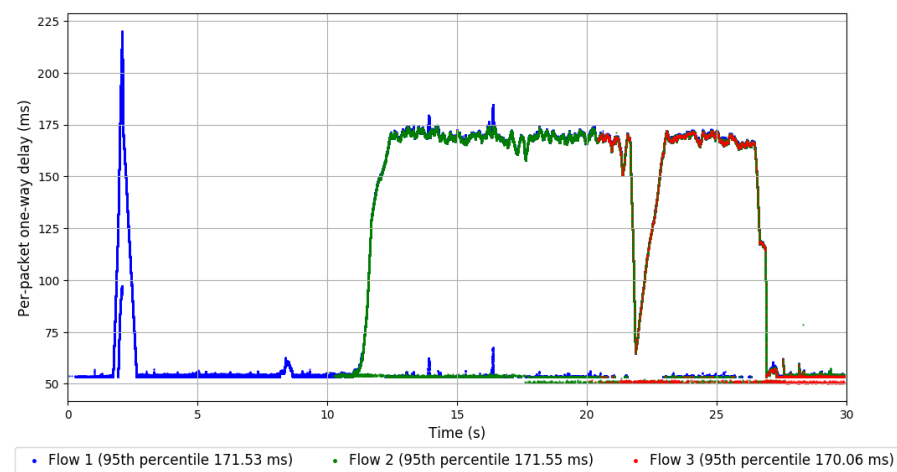
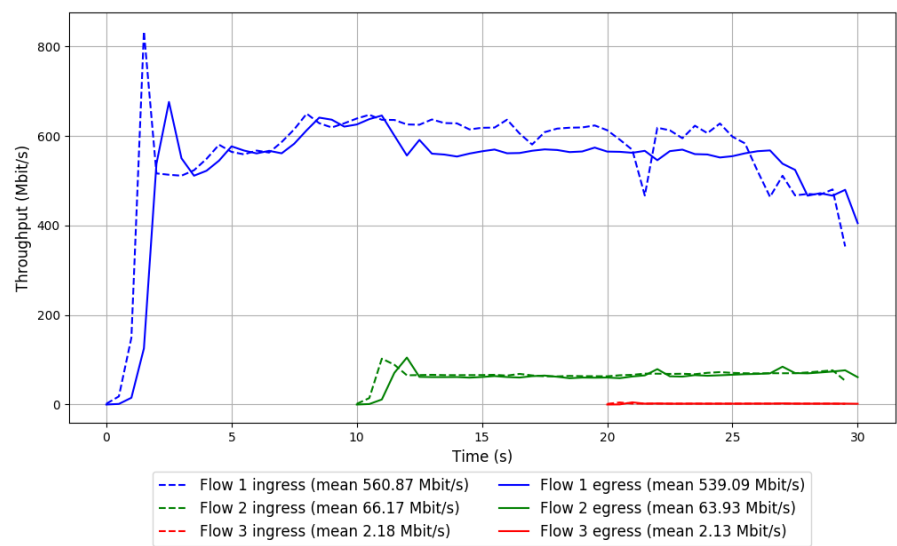
-- Flow 3:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 170.057 ms

Loss rate: 2.19%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-07 08:21:56

End at: 2018-06-07 08:22:26

Local clock offset: -0.371 ms

Remote clock offset: 0.049 ms

Below is generated by plot.py at 2018-06-07 10:29:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 584.32 Mbit/s

95th percentile per-packet one-way delay: 165.403 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 560.67 Mbit/s

95th percentile per-packet one-way delay: 165.332 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 4.67 Mbit/s

95th percentile per-packet one-way delay: 165.221 ms

Loss rate: 1.04%

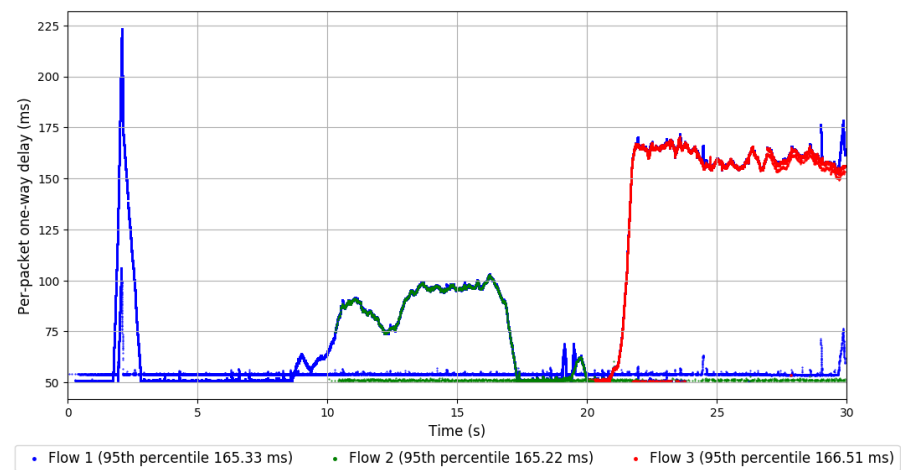
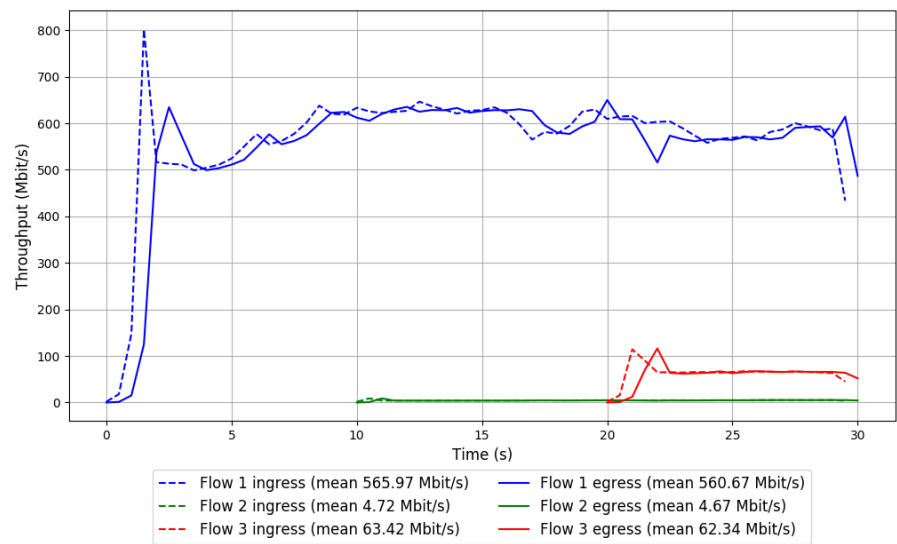
-- Flow 3:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 166.508 ms

Loss rate: 1.67%

Run 9: Report of PCC-Allegro — Data Link

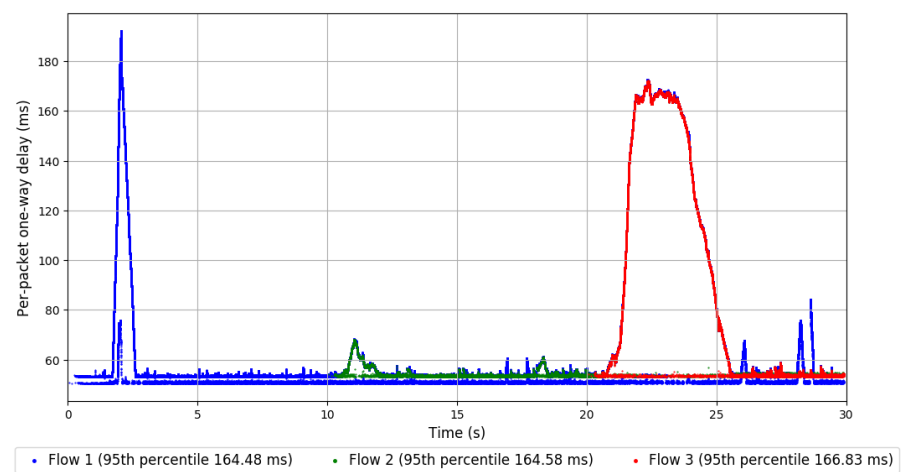
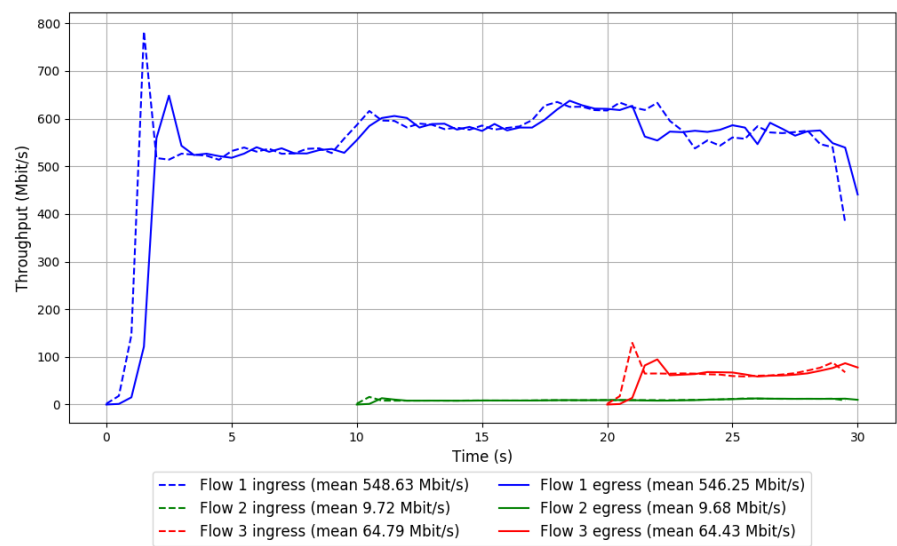


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-07 08:45:07
End at: 2018-06-07 08:45:37
Local clock offset: -0.459 ms
Remote clock offset: -0.394 ms

Below is generated by plot.py at 2018-06-07 10:30:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 573.91 Mbit/s
95th percentile per-packet one-way delay: 164.705 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 546.25 Mbit/s
95th percentile per-packet one-way delay: 164.480 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 9.68 Mbit/s
95th percentile per-packet one-way delay: 164.578 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 64.43 Mbit/s
95th percentile per-packet one-way delay: 166.831 ms
Loss rate: 0.56%

Run 10: Report of PCC-Allegro — Data Link

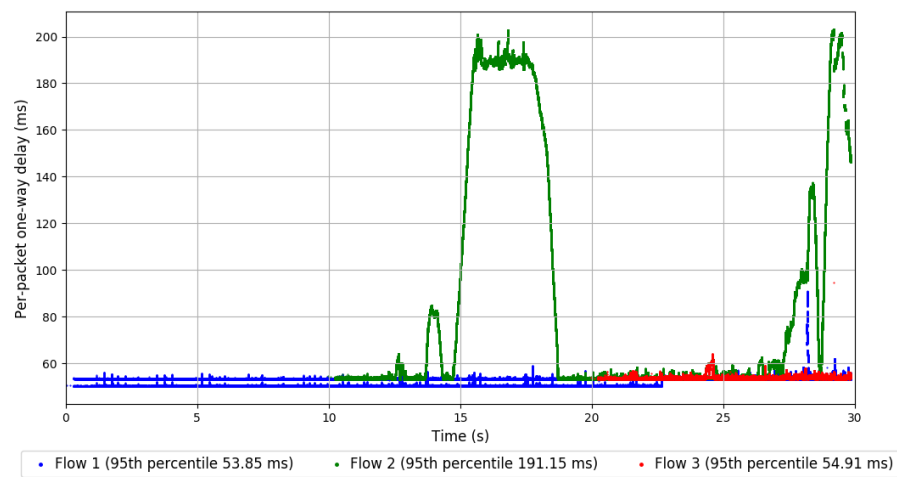
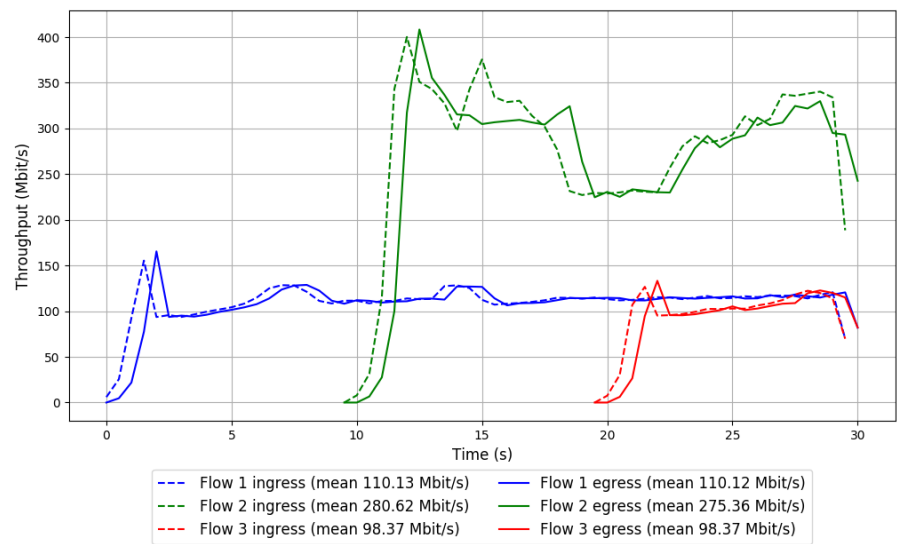


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-07 05:13:15
End at: 2018-06-07 05:13:45
Local clock offset: -0.083 ms
Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2018-06-07 10:30:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 326.38 Mbit/s
95th percentile per-packet one-way delay: 189.566 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 110.12 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 275.36 Mbit/s
95th percentile per-packet one-way delay: 191.153 ms
Loss rate: 1.88%
-- Flow 3:
Average throughput: 98.37 Mbit/s
95th percentile per-packet one-way delay: 54.915 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

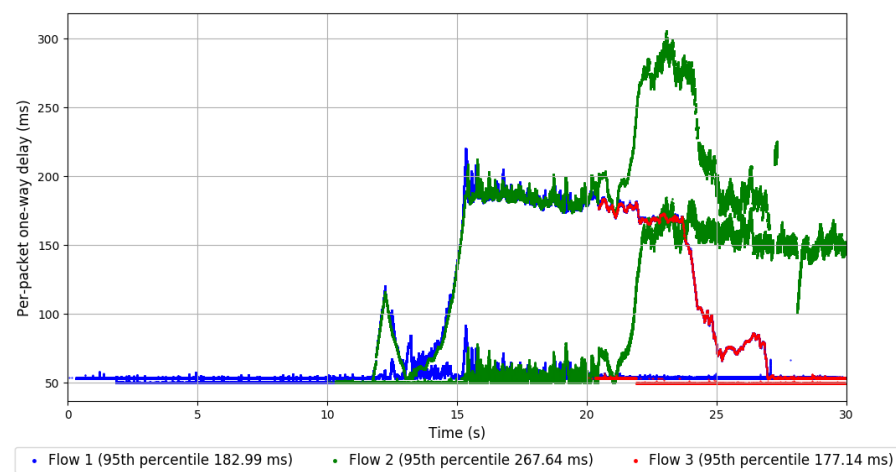
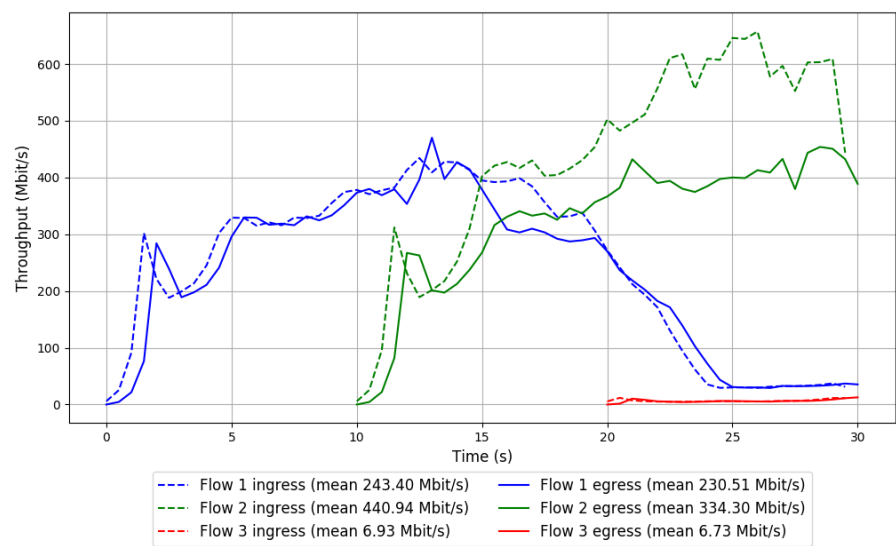


Run 2: Statistics of PCC-Expr

Start at: 2018-06-07 05:35:56
End at: 2018-06-07 05:36:26
Local clock offset: -0.029 ms
Remote clock offset: -0.706 ms

Below is generated by plot.py at 2018-06-07 10:37:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 455.08 Mbit/s
95th percentile per-packet one-way delay: 201.678 ms
Loss rate: 15.56%
-- Flow 1:
Average throughput: 230.51 Mbit/s
95th percentile per-packet one-way delay: 182.992 ms
Loss rate: 5.30%
-- Flow 2:
Average throughput: 334.30 Mbit/s
95th percentile per-packet one-way delay: 267.638 ms
Loss rate: 24.17%
-- Flow 3:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 177.142 ms
Loss rate: 2.80%

Run 2: Report of PCC-Expr — Data Link

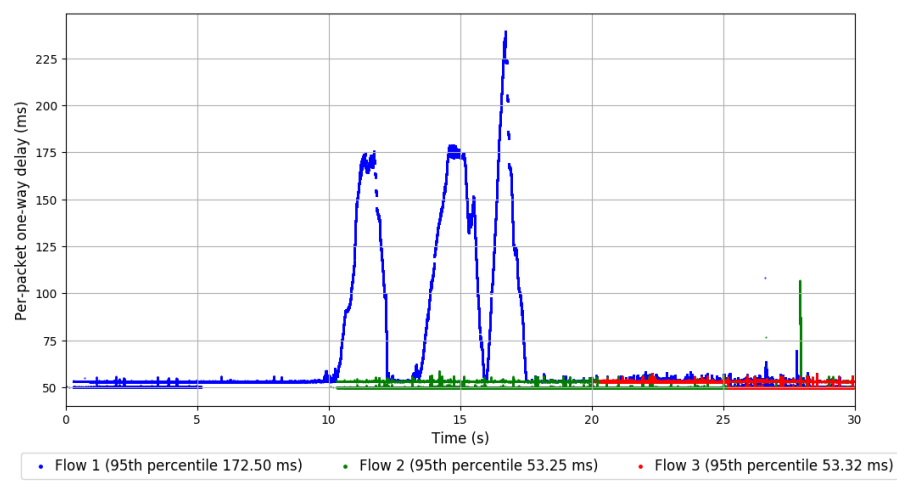
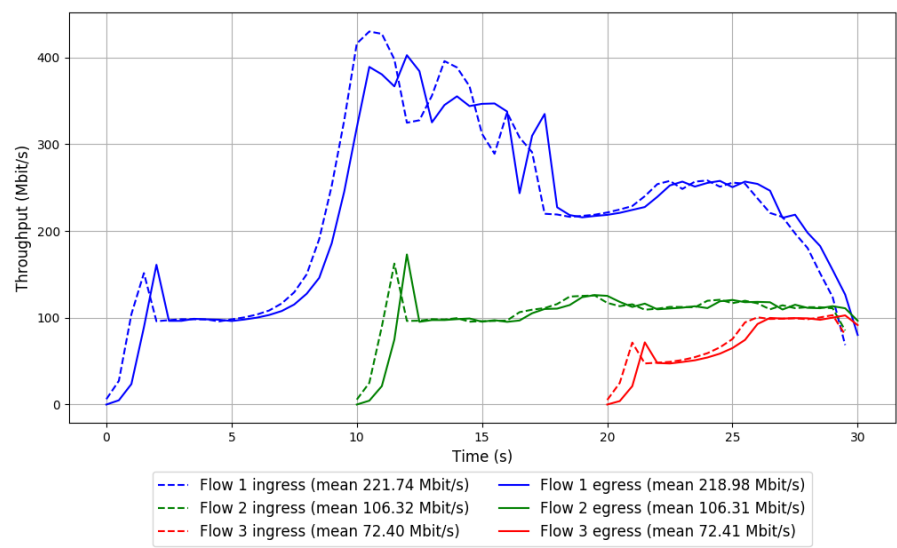


Run 3: Statistics of PCC-Expr

Start at: 2018-06-07 05:59:03
End at: 2018-06-07 05:59:33
Local clock offset: 0.174 ms
Remote clock offset: -0.585 ms

Below is generated by plot.py at 2018-06-07 10:37:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 313.55 Mbit/s
95th percentile per-packet one-way delay: 168.800 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 218.98 Mbit/s
95th percentile per-packet one-way delay: 172.504 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 106.31 Mbit/s
95th percentile per-packet one-way delay: 53.247 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 72.41 Mbit/s
95th percentile per-packet one-way delay: 53.324 ms
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

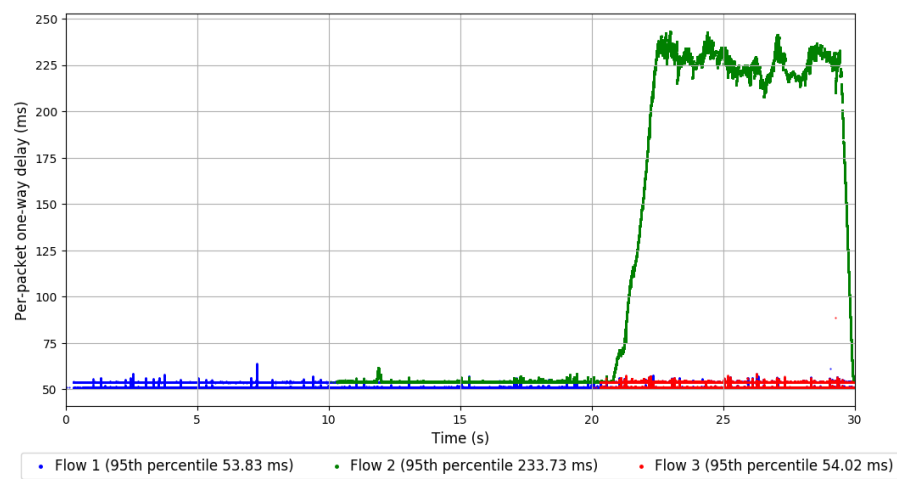
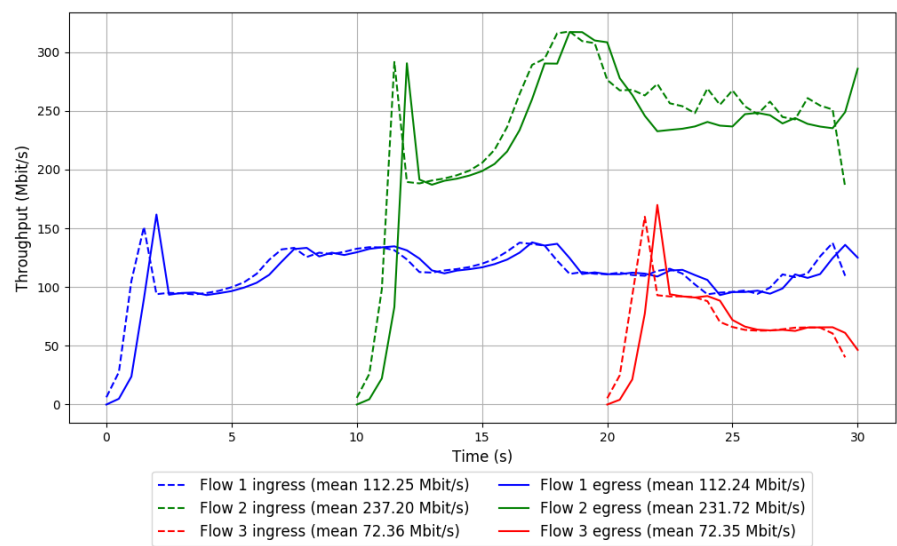


Run 4: Statistics of PCC-Expr

Start at: 2018-06-07 06:21:43
End at: 2018-06-07 06:22:13
Local clock offset: -0.27 ms
Remote clock offset: -0.452 ms

Below is generated by plot.py at 2018-06-07 10:37:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 290.18 Mbit/s
95th percentile per-packet one-way delay: 231.464 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 112.24 Mbit/s
95th percentile per-packet one-way delay: 53.832 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 231.72 Mbit/s
95th percentile per-packet one-way delay: 233.726 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 54.015 ms
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-07 06:44:29

End at: 2018-06-07 06:44:59

Local clock offset: -0.264 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-07 10:46:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 495.26 Mbit/s

95th percentile per-packet one-way delay: 269.795 ms

Loss rate: 8.13%

-- Flow 1:

Average throughput: 392.16 Mbit/s

95th percentile per-packet one-way delay: 272.514 ms

Loss rate: 9.22%

-- Flow 2:

Average throughput: 138.66 Mbit/s

95th percentile per-packet one-way delay: 172.028 ms

Loss rate: 3.75%

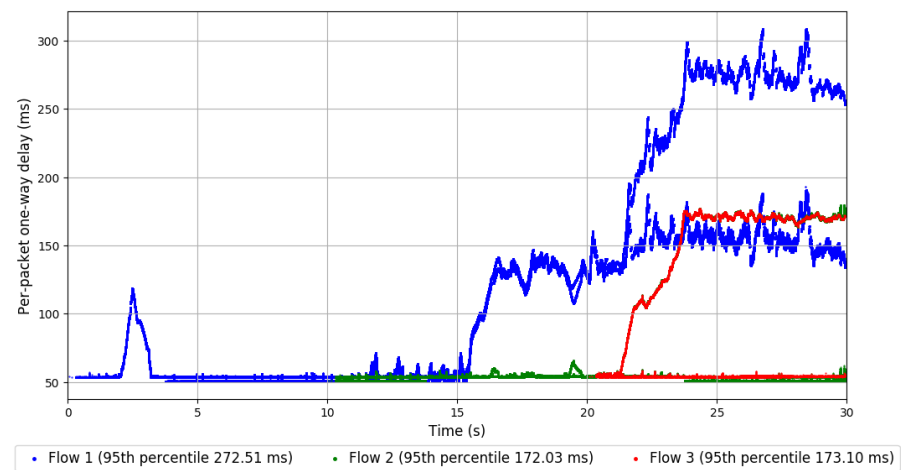
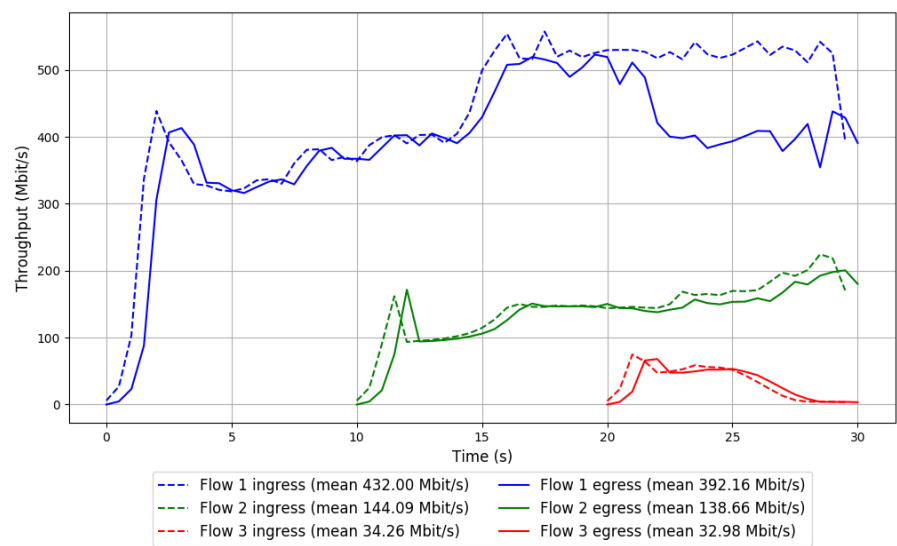
-- Flow 3:

Average throughput: 32.98 Mbit/s

95th percentile per-packet one-way delay: 173.098 ms

Loss rate: 3.74%

Run 5: Report of PCC-Expr — Data Link

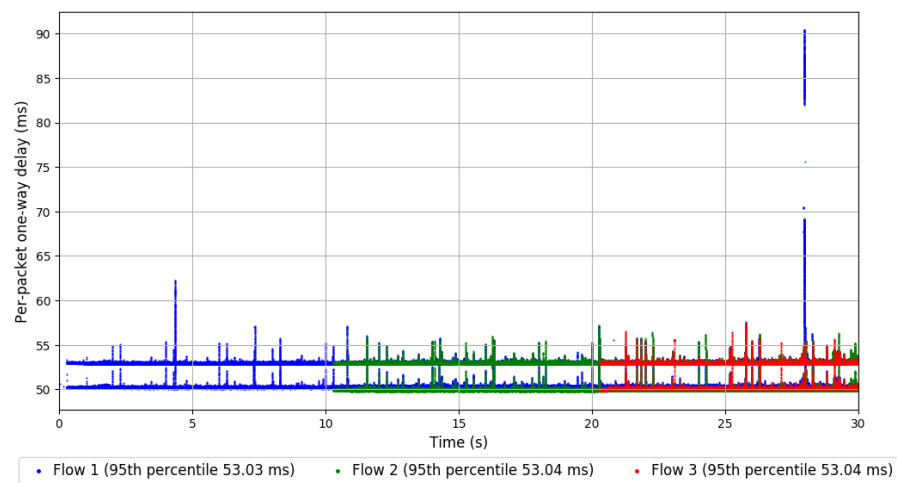
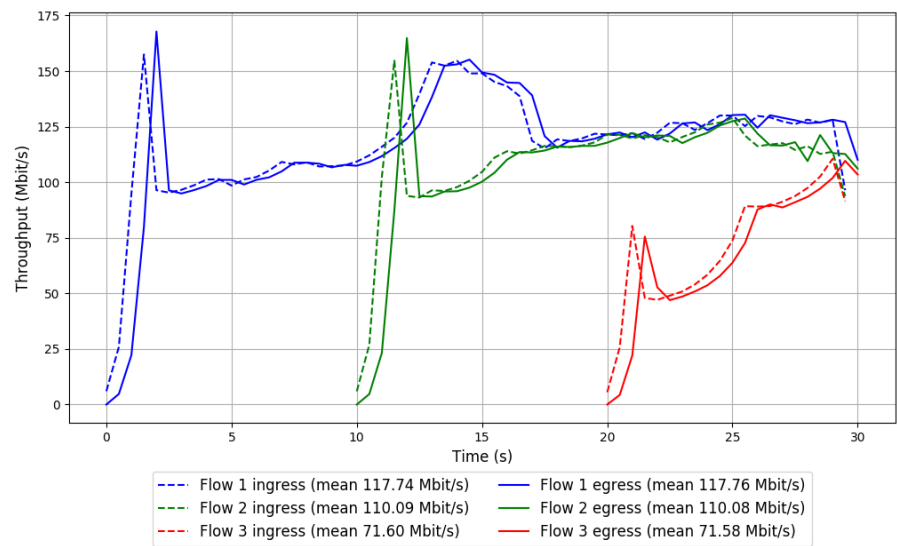


Run 6: Statistics of PCC-Expr

Start at: 2018-06-07 07:07:22
End at: 2018-06-07 07:07:52
Local clock offset: 0.066 ms
Remote clock offset: -0.068 ms

Below is generated by plot.py at 2018-06-07 10:46:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.59 Mbit/s
95th percentile per-packet one-way delay: 53.035 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.76 Mbit/s
95th percentile per-packet one-way delay: 53.030 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 110.08 Mbit/s
95th percentile per-packet one-way delay: 53.040 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 71.58 Mbit/s
95th percentile per-packet one-way delay: 53.037 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-07 07:30:26

End at: 2018-06-07 07:30:56

Local clock offset: 0.226 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-06-07 10:46:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 446.49 Mbit/s

95th percentile per-packet one-way delay: 179.433 ms

Loss rate: 1.45%

-- Flow 1:

Average throughput: 311.00 Mbit/s

95th percentile per-packet one-way delay: 200.604 ms

Loss rate: 1.86%

-- Flow 2:

Average throughput: 108.18 Mbit/s

95th percentile per-packet one-way delay: 53.721 ms

Loss rate: 0.00%

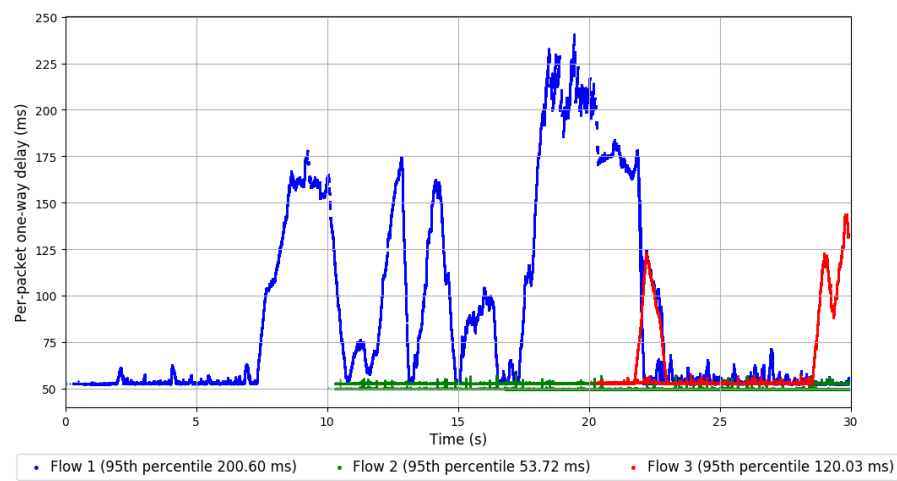
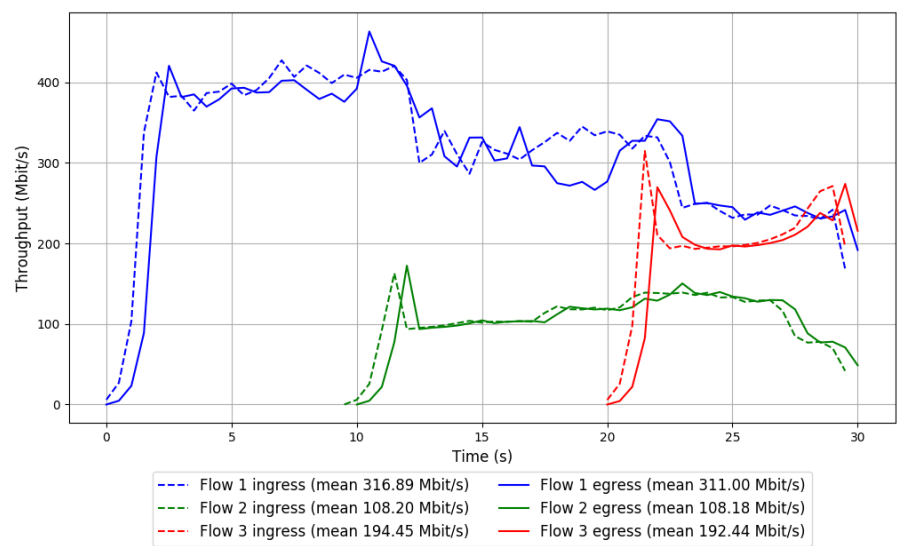
-- Flow 3:

Average throughput: 192.44 Mbit/s

95th percentile per-packet one-way delay: 120.025 ms

Loss rate: 1.05%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-07 07:53:23

End at: 2018-06-07 07:53:53

Local clock offset: -0.396 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2018-06-07 10:46:26

Datalink statistics

-- Total of 3 flows:

Average throughput: 493.35 Mbit/s

95th percentile per-packet one-way delay: 130.819 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 296.61 Mbit/s

95th percentile per-packet one-way delay: 93.516 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 269.28 Mbit/s

95th percentile per-packet one-way delay: 153.509 ms

Loss rate: 2.05%

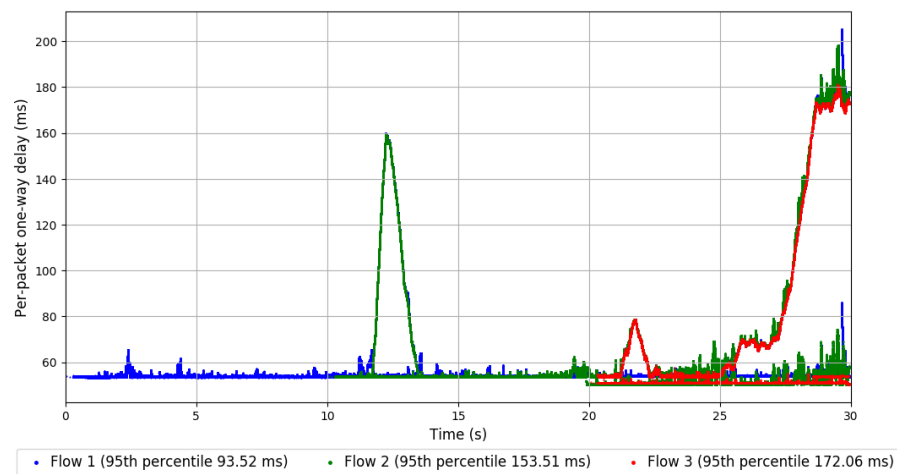
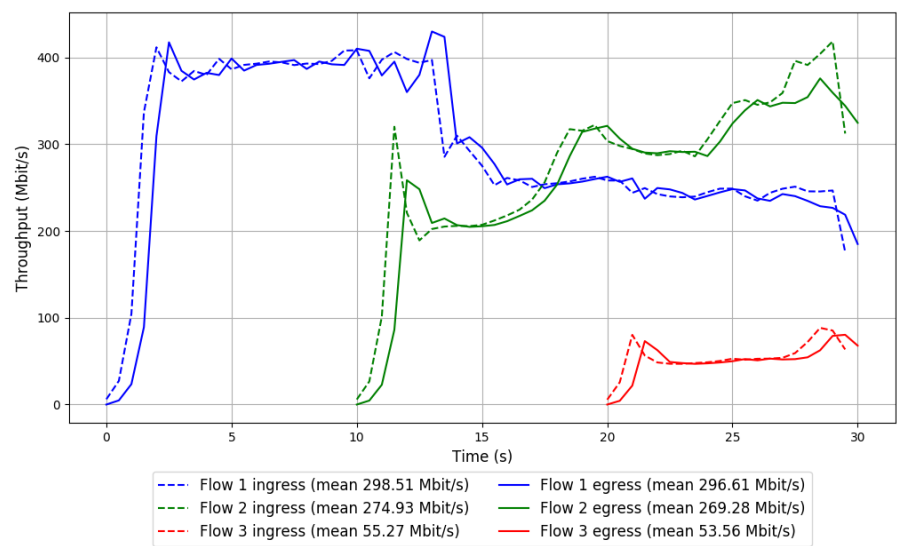
-- Flow 3:

Average throughput: 53.56 Mbit/s

95th percentile per-packet one-way delay: 172.060 ms

Loss rate: 3.05%

Run 8: Report of PCC-Expr — Data Link

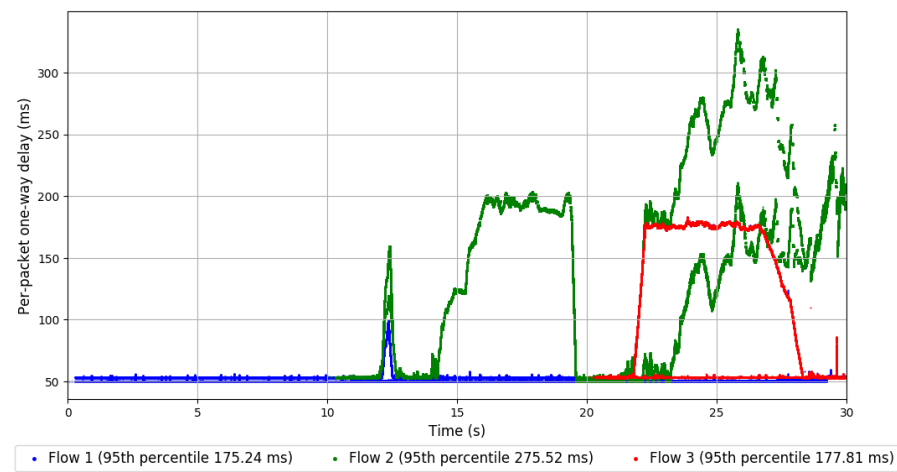
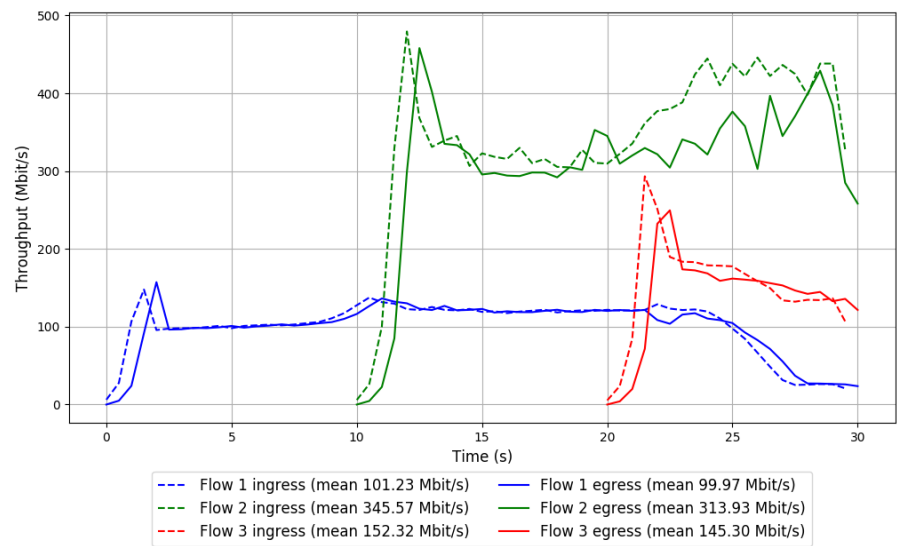


Run 9: Statistics of PCC-Expr

Start at: 2018-06-07 08:16:14
End at: 2018-06-07 08:16:44
Local clock offset: -0.048 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-06-07 10:46:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.68 Mbit/s
95th percentile per-packet one-way delay: 247.420 ms
Loss rate: 6.45%
-- Flow 1:
Average throughput: 99.97 Mbit/s
95th percentile per-packet one-way delay: 175.243 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 313.93 Mbit/s
95th percentile per-packet one-way delay: 275.518 ms
Loss rate: 9.16%
-- Flow 3:
Average throughput: 145.30 Mbit/s
95th percentile per-packet one-way delay: 177.812 ms
Loss rate: 4.61%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-07 08:39:11

End at: 2018-06-07 08:39:41

Local clock offset: -0.244 ms

Remote clock offset: 0.081 ms

Below is generated by plot.py at 2018-06-07 10:48:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 457.28 Mbit/s

95th percentile per-packet one-way delay: 90.077 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 276.27 Mbit/s

95th percentile per-packet one-way delay: 84.626 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 236.82 Mbit/s

95th percentile per-packet one-way delay: 96.284 ms

Loss rate: 0.03%

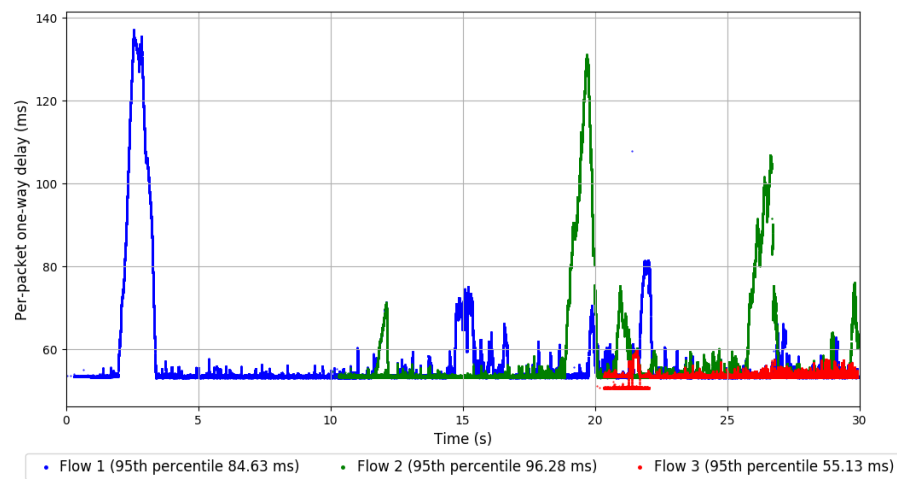
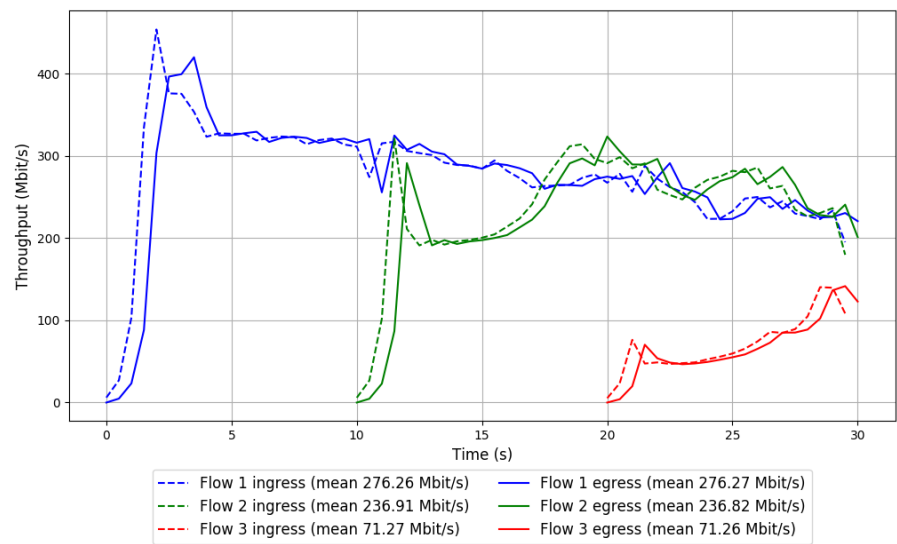
-- Flow 3:

Average throughput: 71.26 Mbit/s

95th percentile per-packet one-way delay: 55.130 ms

Loss rate: 0.00%

Run 10: Report of PCC-Expr — Data Link

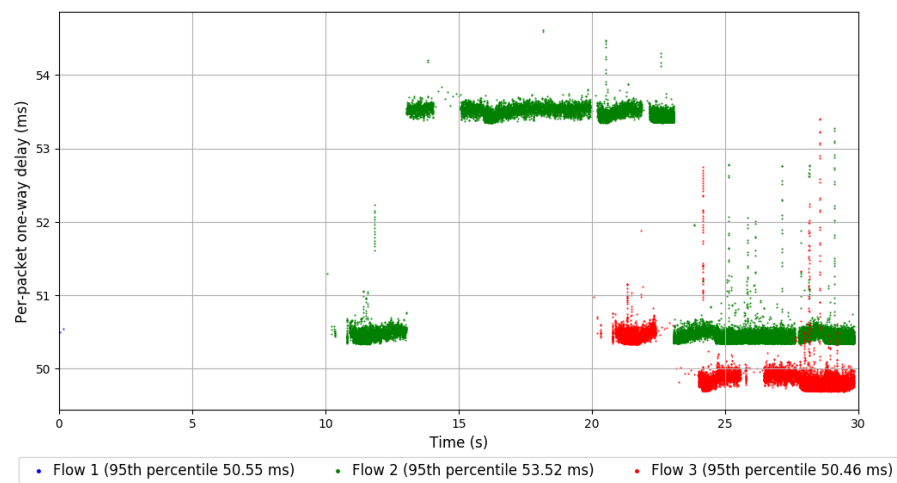
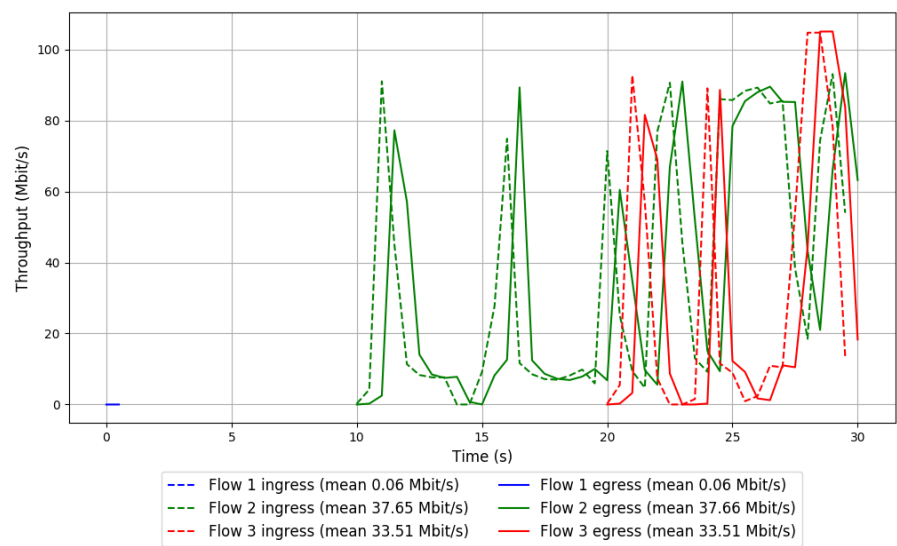


Run 1: Statistics of QUIC Cubic

Start at: 2018-06-07 05:12:05
End at: 2018-06-07 05:12:35
Local clock offset: 0.024 ms
Remote clock offset: -0.317 ms

Below is generated by plot.py at 2018-06-07 10:48:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 35.98 Mbit/s
95th percentile per-packet one-way delay: 53.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.545 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.66 Mbit/s
95th percentile per-packet one-way delay: 53.522 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.51 Mbit/s
95th percentile per-packet one-way delay: 50.459 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

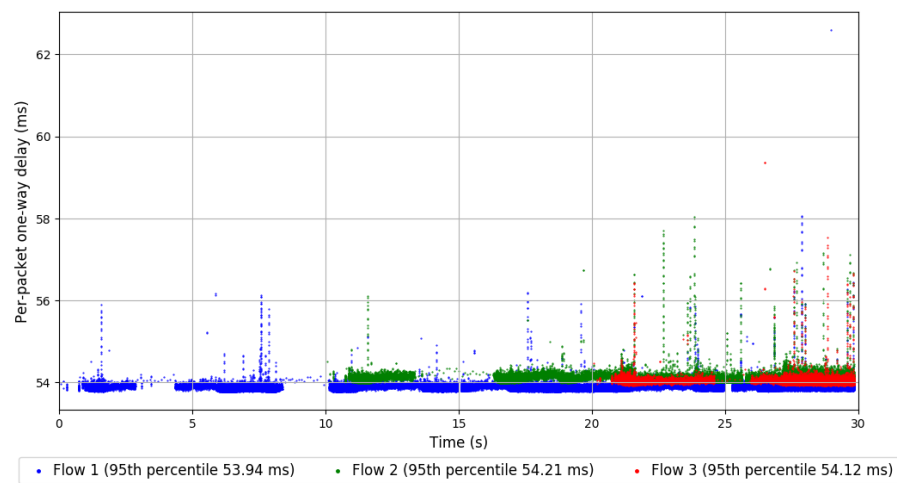
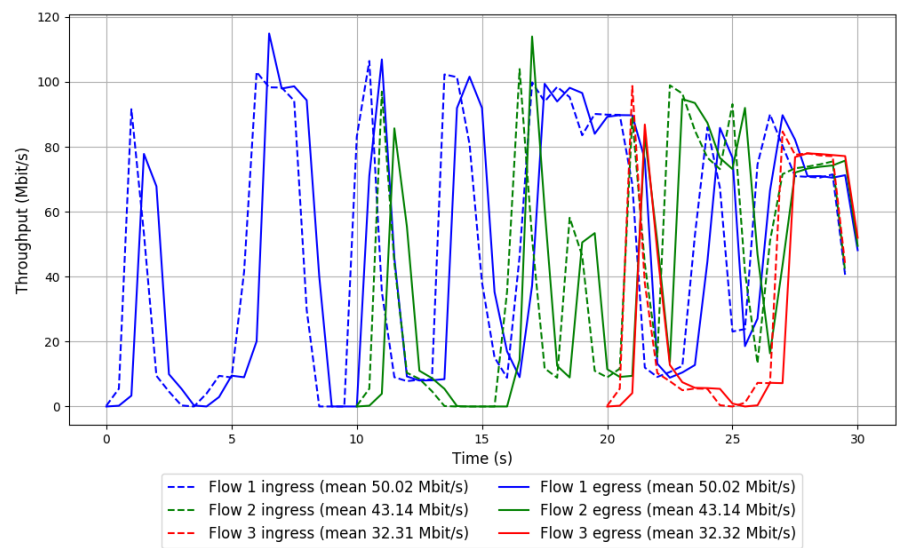


Run 2: Statistics of QUIC Cubic

Start at: 2018-06-07 05:34:43
End at: 2018-06-07 05:35:13
Local clock offset: -0.159 ms
Remote clock offset: -0.183 ms

Below is generated by plot.py at 2018-06-07 10:48:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.26 Mbit/s
95th percentile per-packet one-way delay: 54.149 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.02 Mbit/s
95th percentile per-packet one-way delay: 53.943 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.14 Mbit/s
95th percentile per-packet one-way delay: 54.213 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.32 Mbit/s
95th percentile per-packet one-way delay: 54.120 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

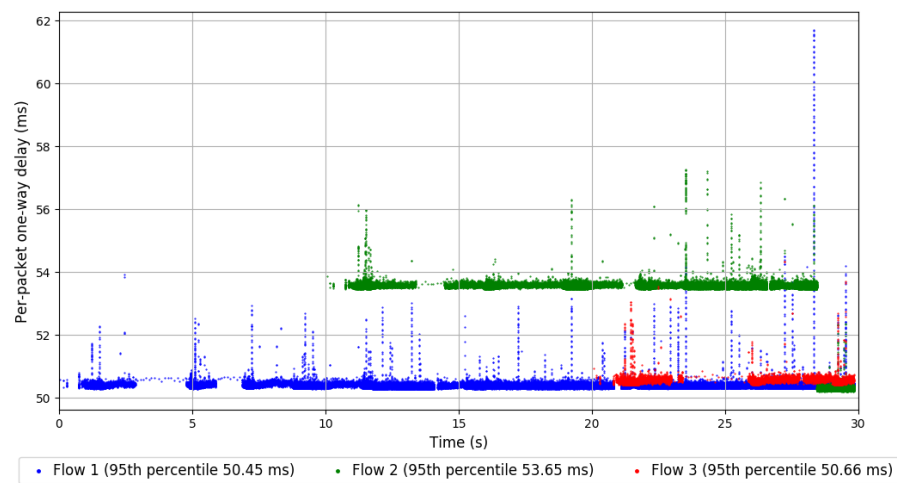
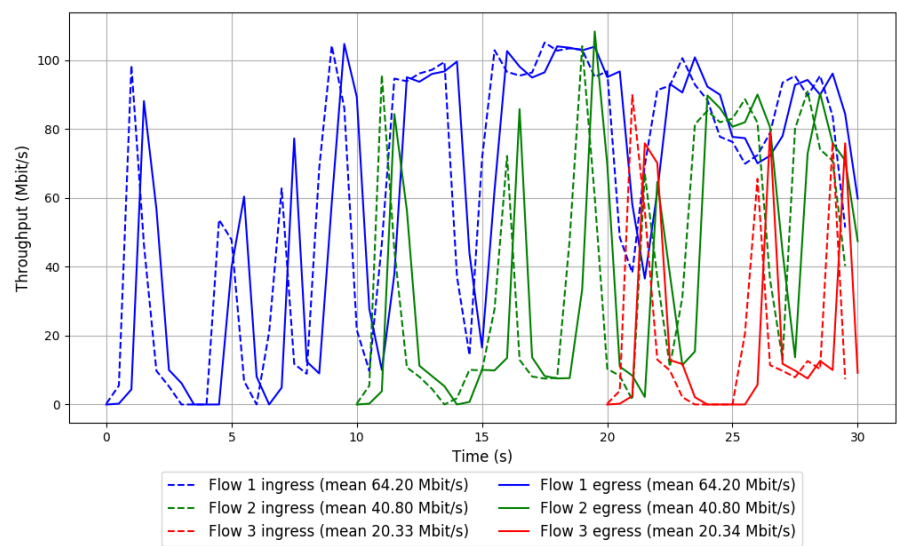


Run 3: Statistics of QUIC Cubic

Start at: 2018-06-07 05:57:49
End at: 2018-06-07 05:58:19
Local clock offset: -0.19 ms
Remote clock offset: -0.534 ms

Below is generated by plot.py at 2018-06-07 10:48:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 97.97 Mbit/s
95th percentile per-packet one-way delay: 53.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.20 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.80 Mbit/s
95th percentile per-packet one-way delay: 53.654 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 50.657 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

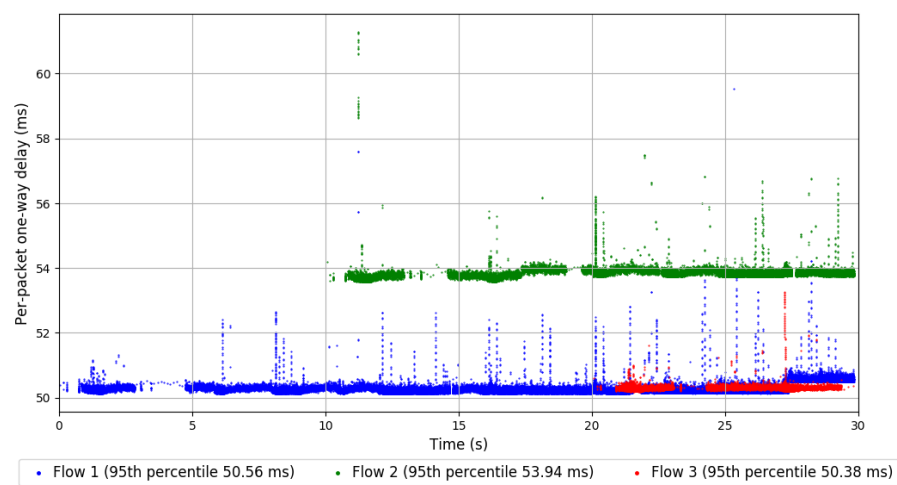
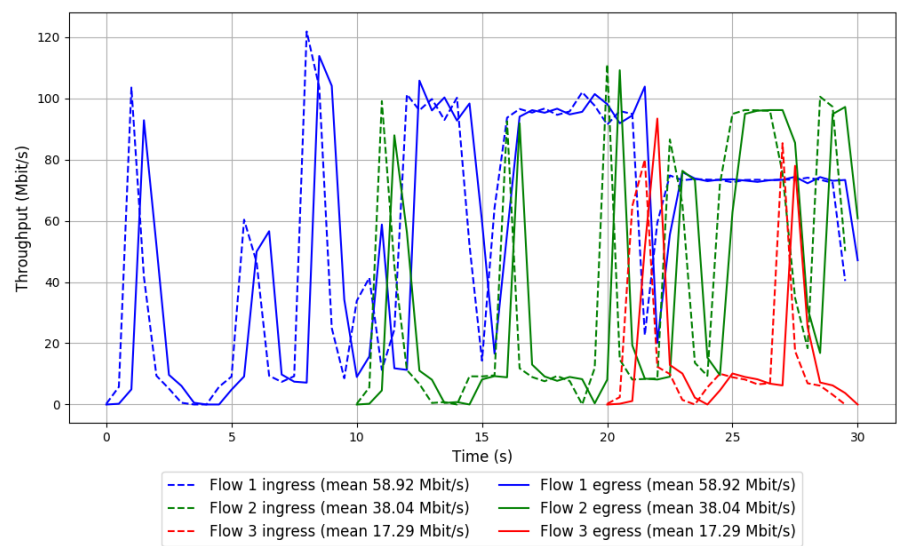


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-07 06:20:30
End at: 2018-06-07 06:21:00
Local clock offset: 0.048 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.82 Mbit/s
95th percentile per-packet one-way delay: 53.862 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.92 Mbit/s
95th percentile per-packet one-way delay: 50.560 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.04 Mbit/s
95th percentile per-packet one-way delay: 53.944 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 17.29 Mbit/s
95th percentile per-packet one-way delay: 50.383 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

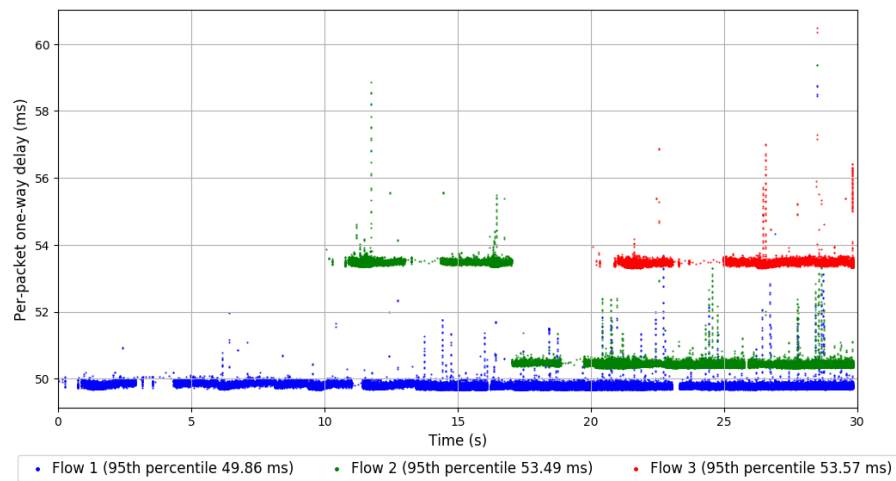
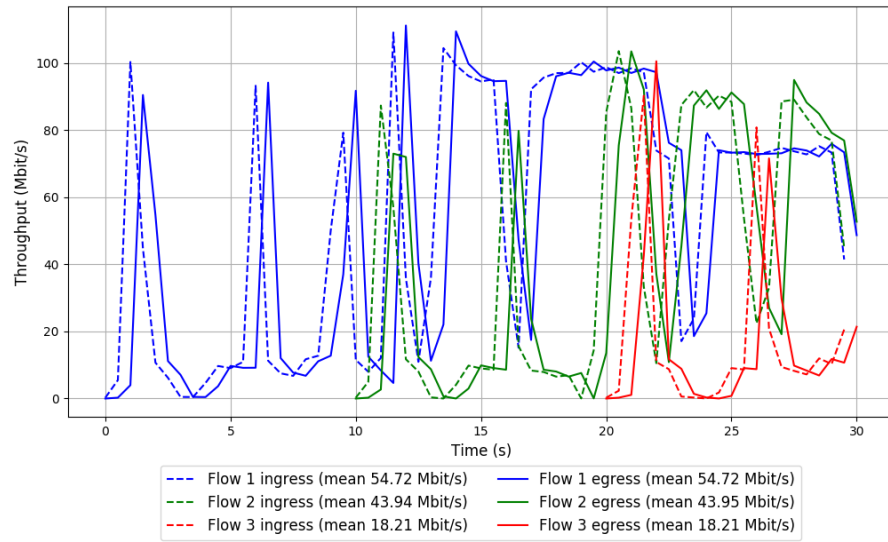


Run 5: Statistics of QUIC Cubic

Start at: 2018-06-07 06:43:16
End at: 2018-06-07 06:43:46
Local clock offset: -0.076 ms
Remote clock offset: -0.299 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.86 Mbit/s
95th percentile per-packet one-way delay: 53.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 49.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 43.95 Mbit/s
95th percentile per-packet one-way delay: 53.486 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 18.21 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-07 07:06:09

End at: 2018-06-07 07:06:39

Local clock offset: 0.215 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2018-06-07 10:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.81 Mbit/s

95th percentile per-packet one-way delay: 53.554 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.96 Mbit/s

95th percentile per-packet one-way delay: 53.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.80 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.00%

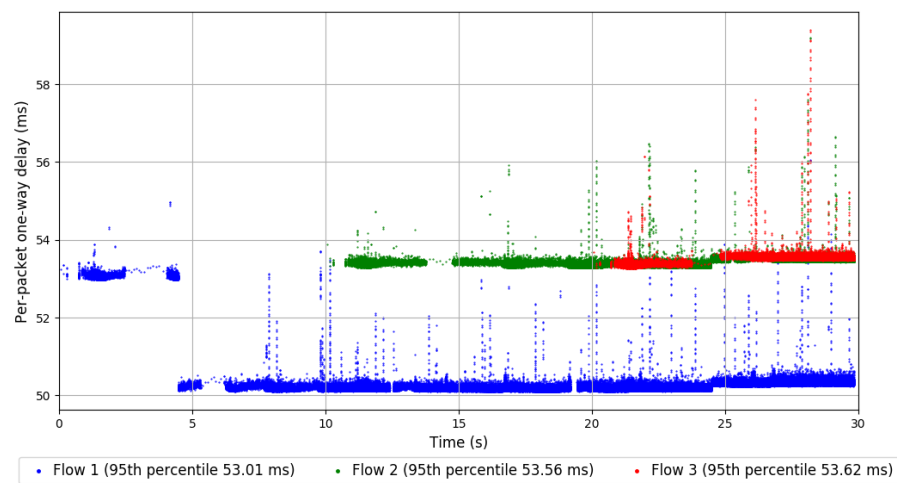
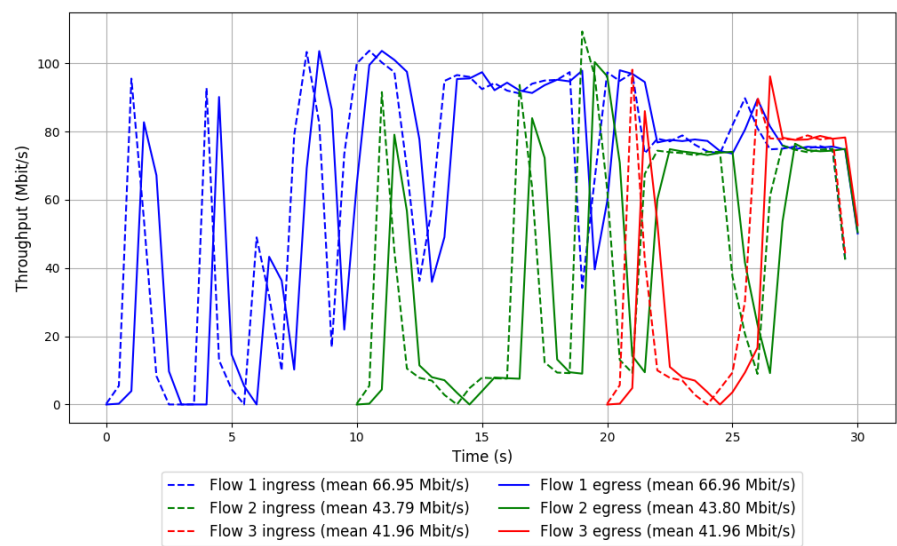
-- Flow 3:

Average throughput: 41.96 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-07 07:29:13

End at: 2018-06-07 07:29:43

Local clock offset: -0.35 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-06-07 10:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 53.560 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.85 Mbit/s

95th percentile per-packet one-way delay: 53.537 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 53.370 ms

Loss rate: 0.00%

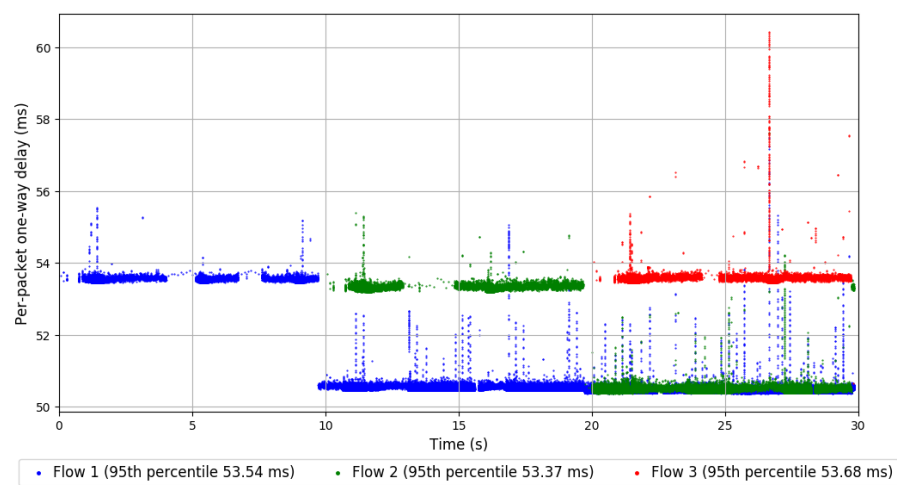
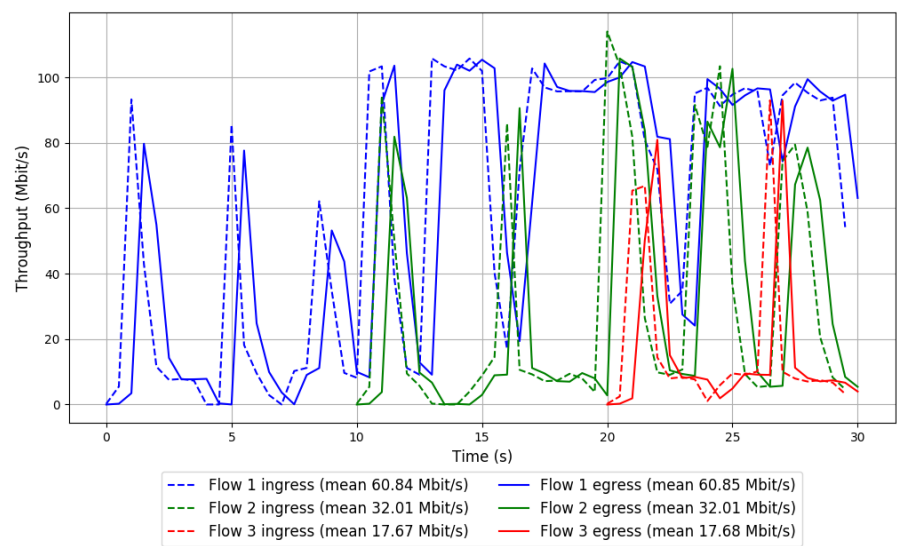
-- Flow 3:

Average throughput: 17.68 Mbit/s

95th percentile per-packet one-way delay: 53.681 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

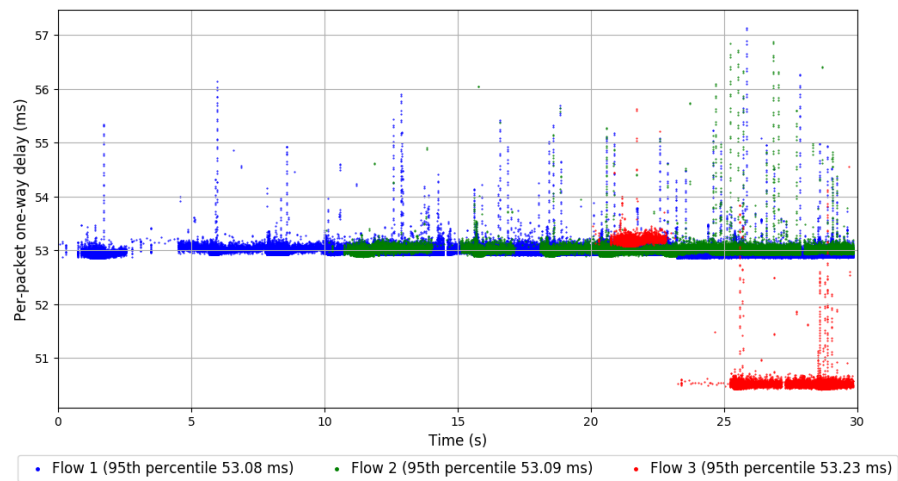
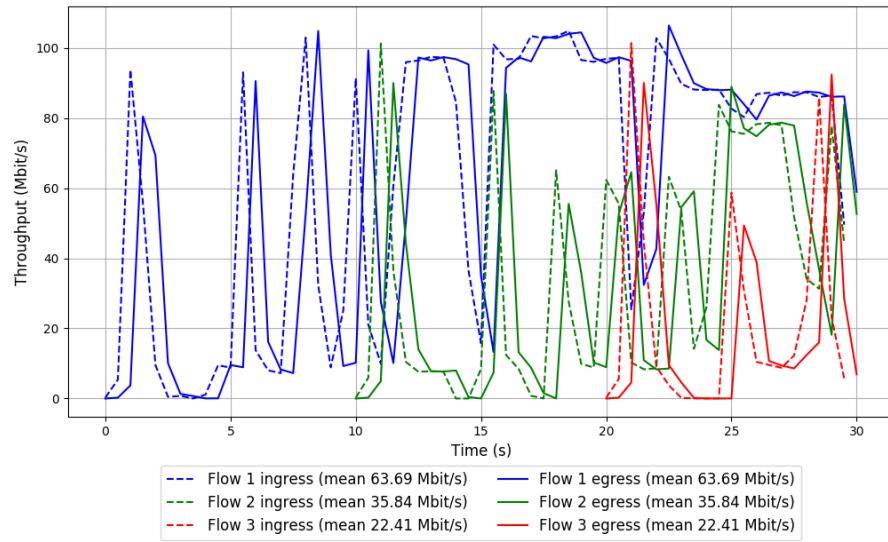


Run 8: Statistics of QUIC Cubic

Start at: 2018-06-07 07:52:10
End at: 2018-06-07 07:52:40
Local clock offset: -0.338 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.85 Mbit/s
95th percentile per-packet one-way delay: 53.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.69 Mbit/s
95th percentile per-packet one-way delay: 53.084 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 53.088 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.41 Mbit/s
95th percentile per-packet one-way delay: 53.229 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-07 08:15:00

End at: 2018-06-07 08:15:30

Local clock offset: 0.163 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-07 10:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 107.85 Mbit/s

95th percentile per-packet one-way delay: 53.248 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 66.20 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 46.65 Mbit/s

95th percentile per-packet one-way delay: 50.380 ms

Loss rate: 0.00%

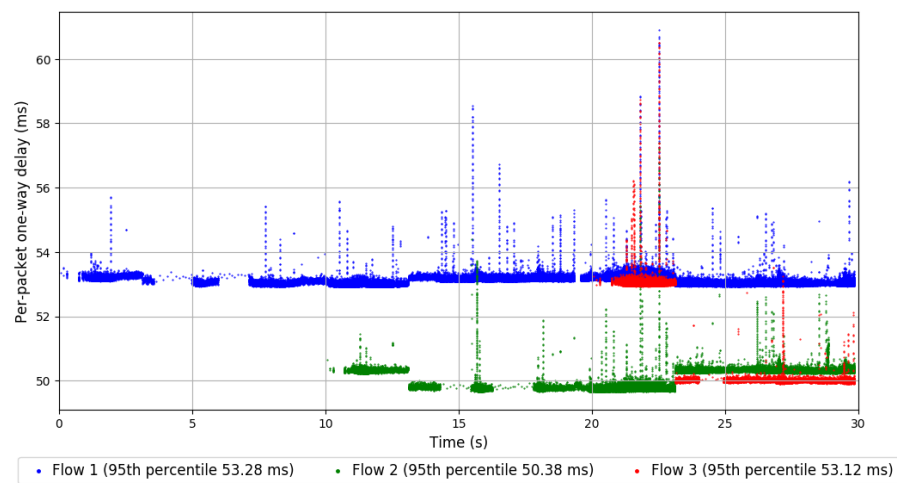
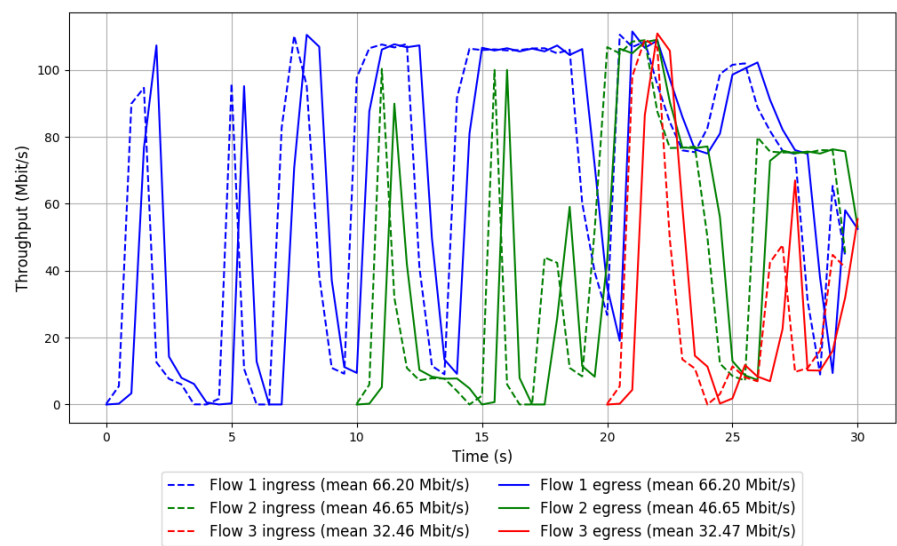
-- Flow 3:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 53.118 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-07 08:37:58

End at: 2018-06-07 08:38:28

Local clock offset: -0.045 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-06-07 10:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.78 Mbit/s

95th percentile per-packet one-way delay: 53.534 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 45.47 Mbit/s

95th percentile per-packet one-way delay: 53.589 ms

Loss rate: 0.00%

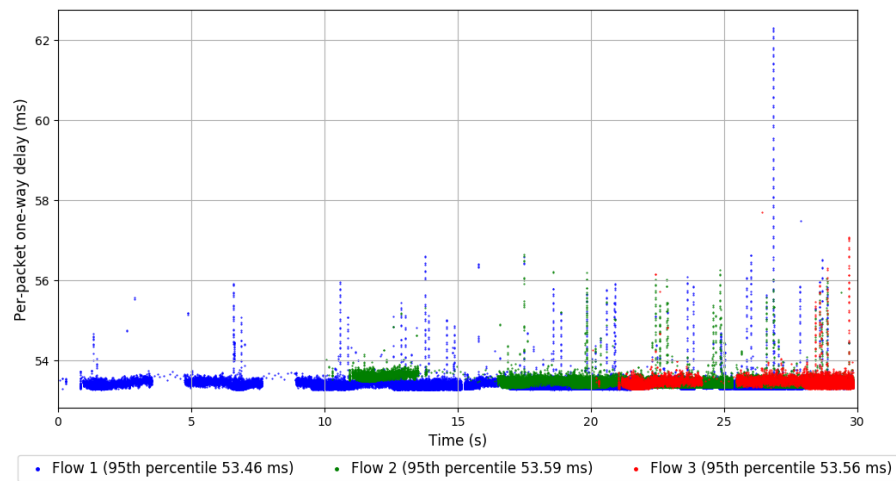
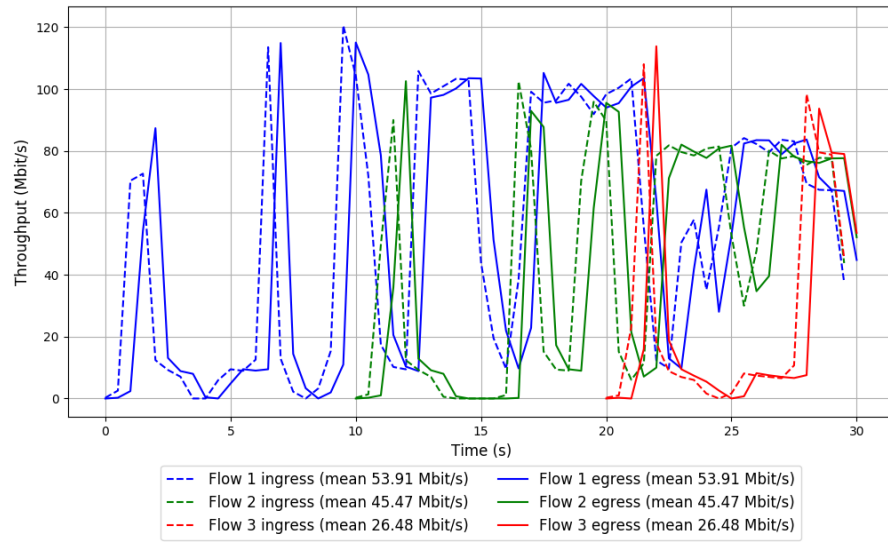
-- Flow 3:

Average throughput: 26.48 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

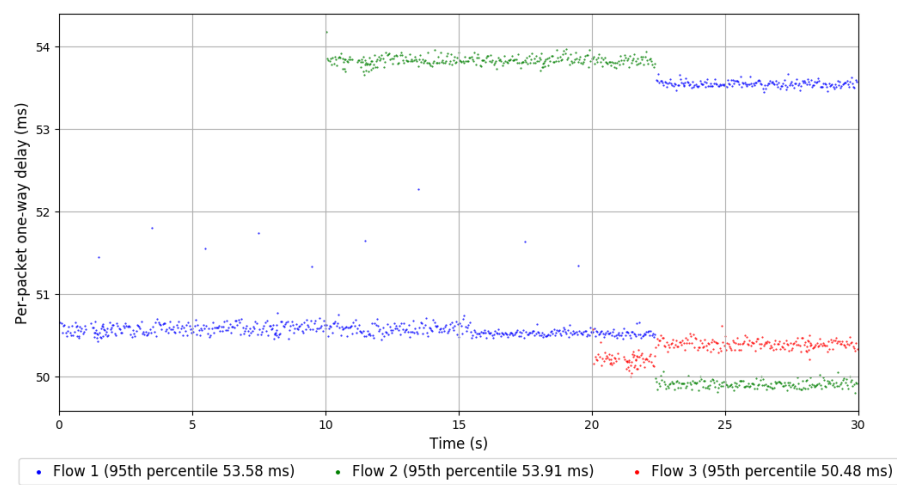
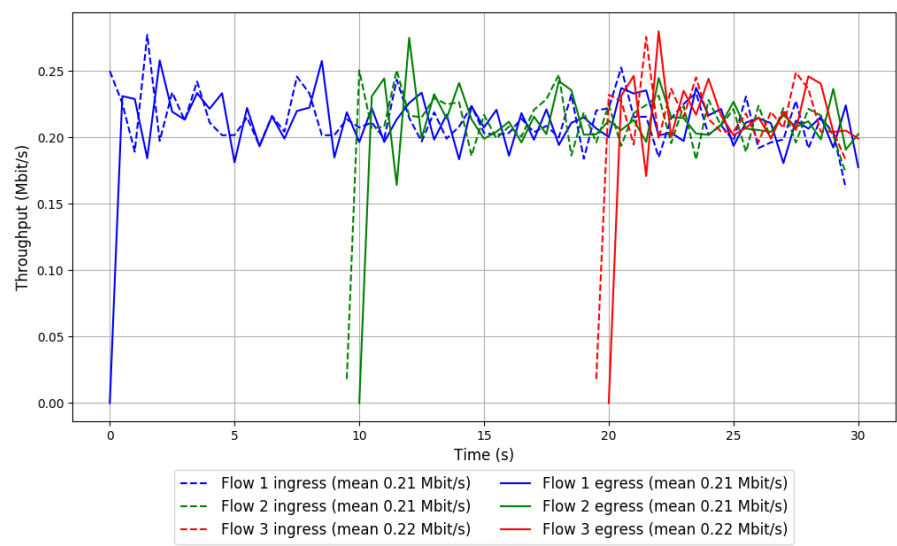


Run 1: Statistics of SReAM

Start at: 2018-06-07 05:09:45
End at: 2018-06-07 05:10:15
Local clock offset: 0.241 ms
Remote clock offset: -0.172 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.582 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.475 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

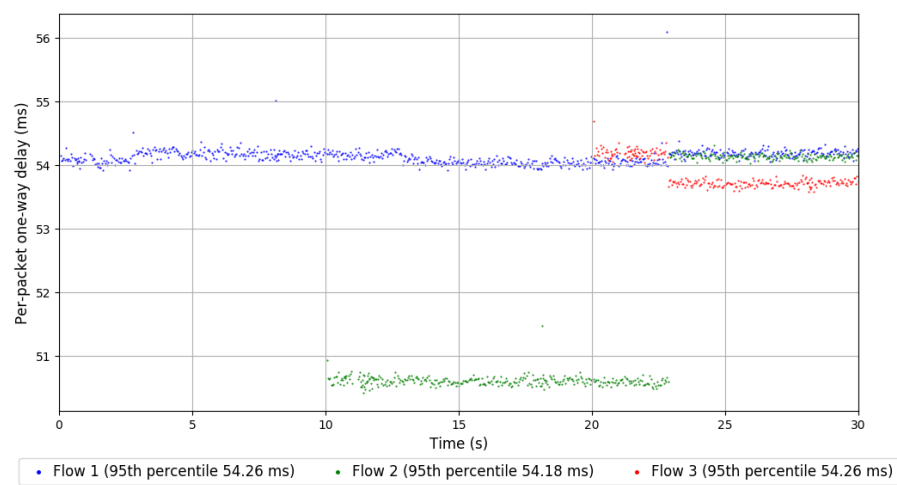
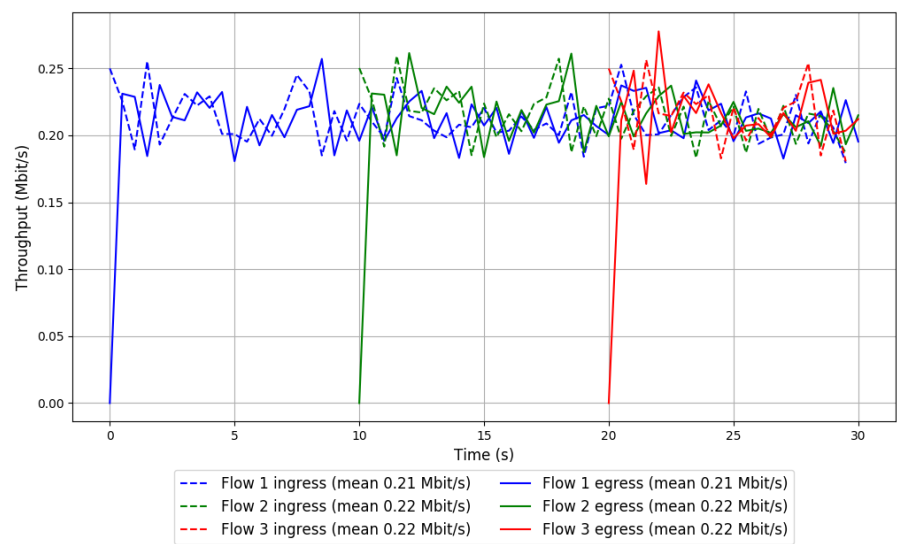


```
Run 2: Statistics of SReAM

Start at: 2018-06-07 05:32:25
End at: 2018-06-07 05:32:55
Local clock offset: -0.217 ms
Remote clock offset: -0.33 ms

# Below is generated by plot.py at 2018-06-07 10:48:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.241 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.255 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.181 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.255 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

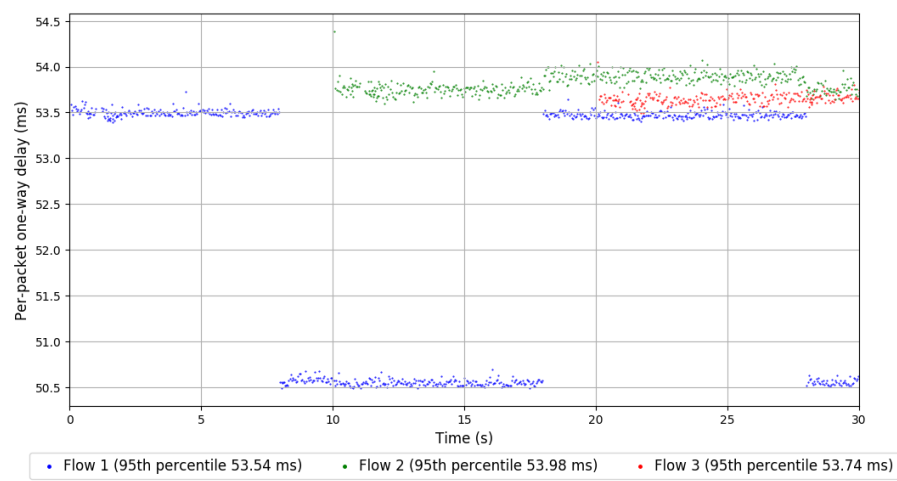
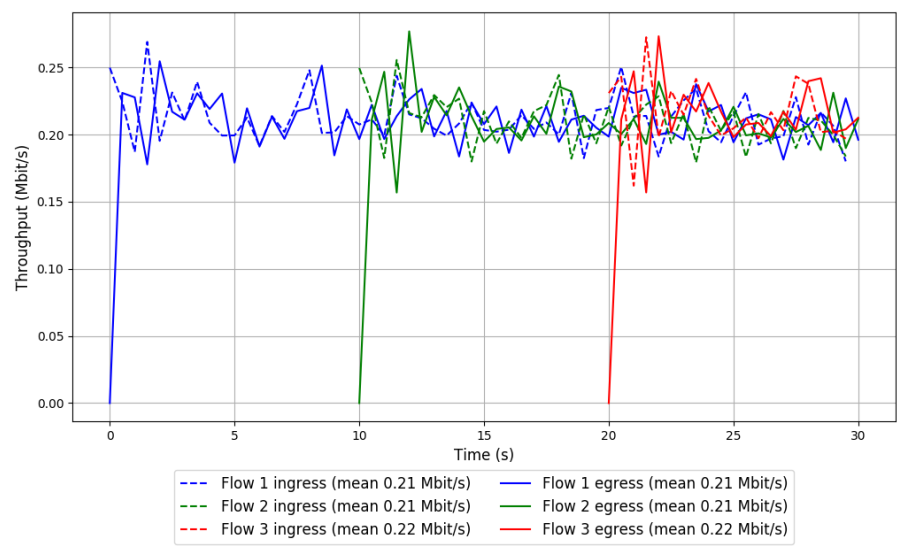


Run 3: Statistics of SReAM

Start at: 2018-06-07 05:55:30
End at: 2018-06-07 05:56:00
Local clock offset: -0.132 ms
Remote clock offset: -0.656 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 53.930 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.537 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.981 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.741 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

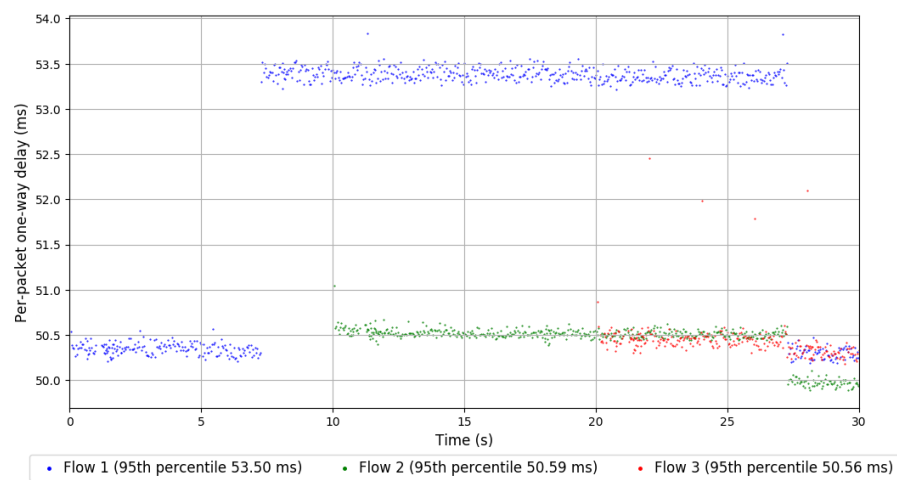
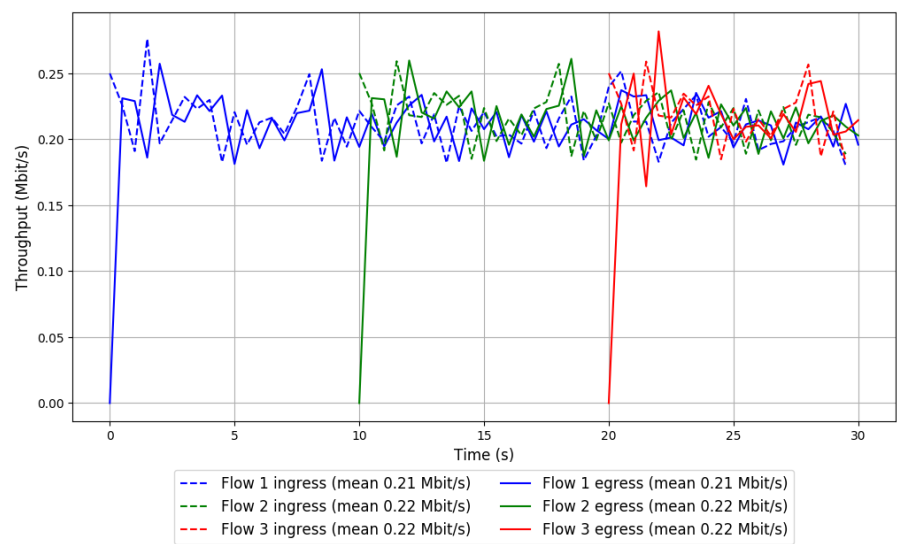


Run 4: Statistics of SReAM

Start at: 2018-06-07 06:18:11
End at: 2018-06-07 06:18:41
Local clock offset: -0.139 ms
Remote clock offset: -0.719 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.496 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.589 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.563 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

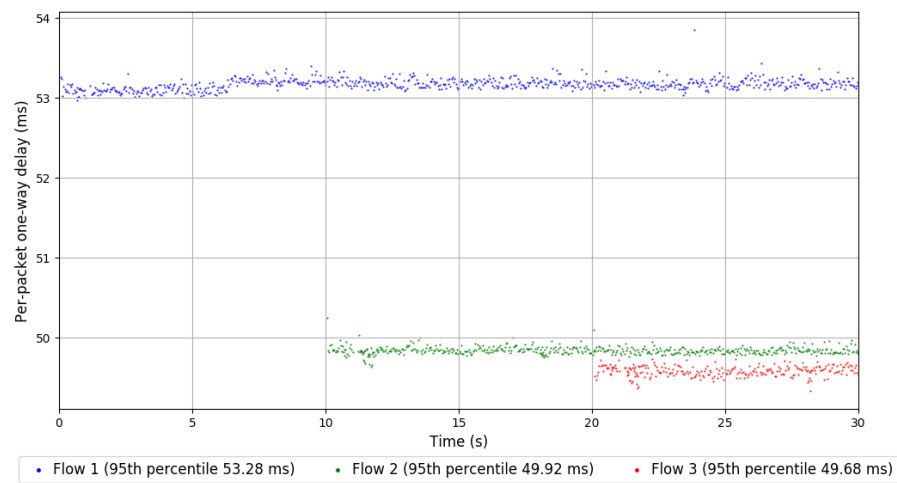
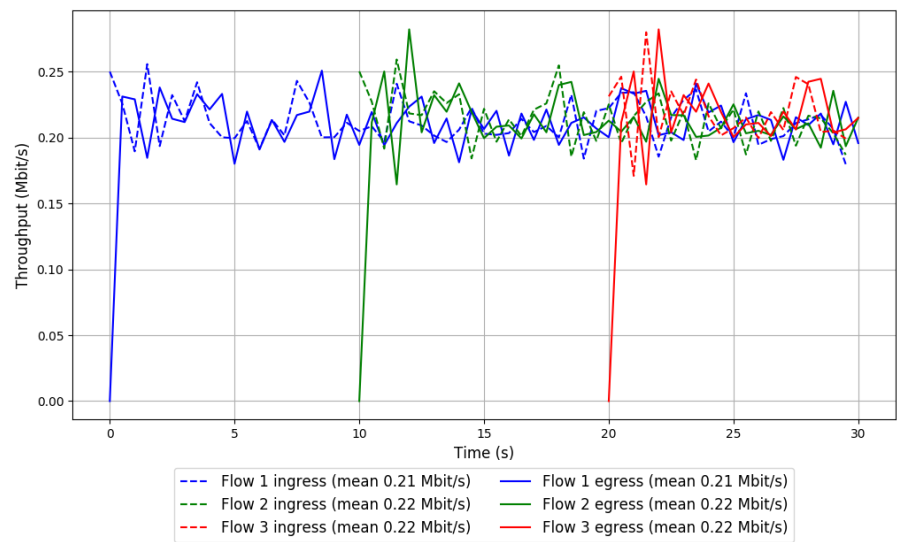


Run 5: Statistics of SReAM

Start at: 2018-06-07 06:40:57
End at: 2018-06-07 06:41:27
Local clock offset: 0.331 ms
Remote clock offset: -0.356 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.283 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.917 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.679 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-06-07 07:03:49

End at: 2018-06-07 07:04:19

Local clock offset: 0.008 ms

Remote clock offset: 0.222 ms

Below is generated by plot.py at 2018-06-07 10:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.799 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.832 ms

Loss rate: 0.00%

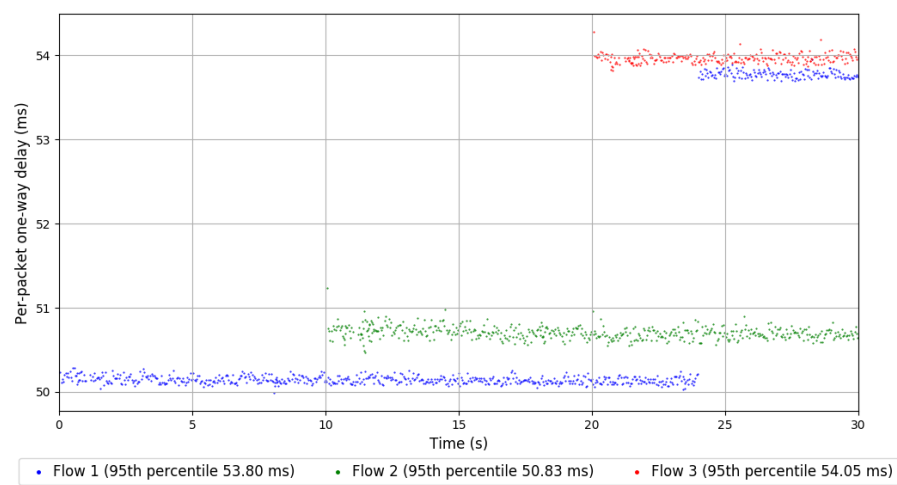
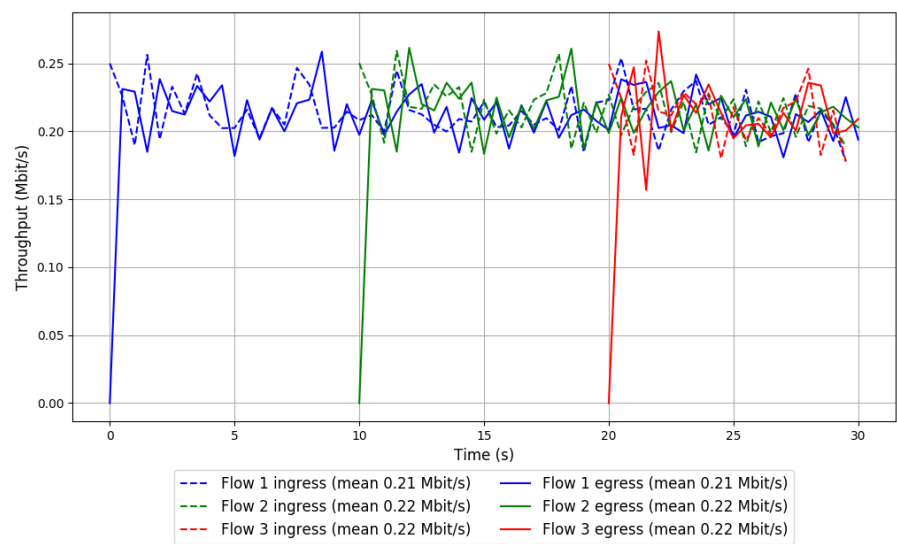
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.048 ms

Loss rate: 0.00%

Run 6: Report of SCReAM — Data Link

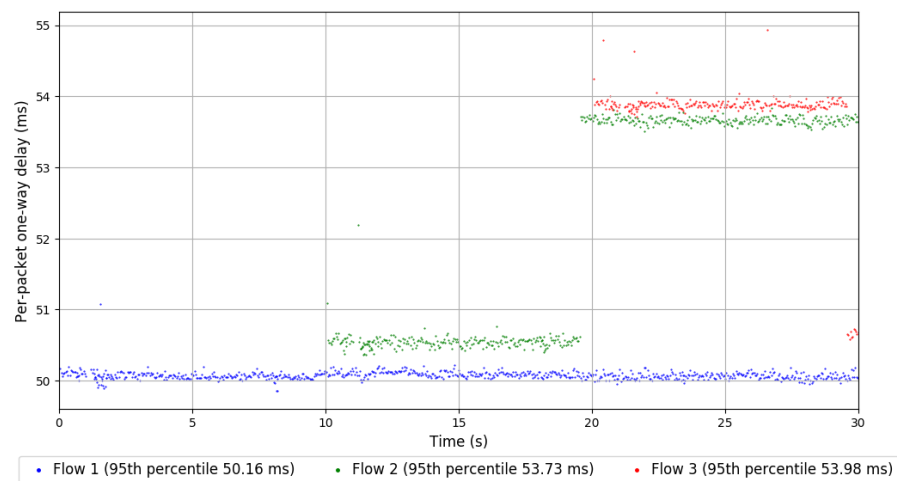
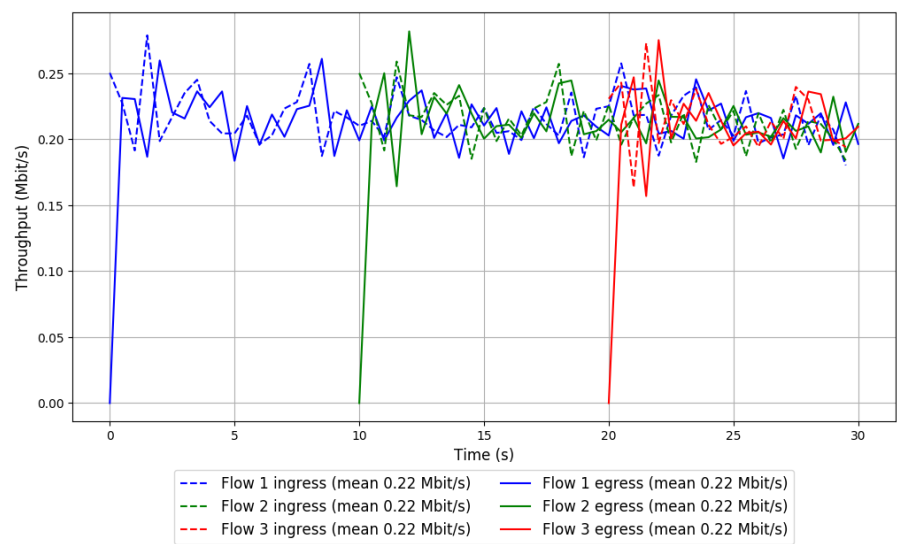


Run 7: Statistics of SReAM

Start at: 2018-06-07 07:26:54
End at: 2018-06-07 07:27:24
Local clock offset: -0.007 ms
Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.156 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.727 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.978 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-06-07 07:49:50

End at: 2018-06-07 07:50:20

Local clock offset: 0.029 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-06-07 10:48:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.560 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.578 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.374 ms

Loss rate: 0.00%

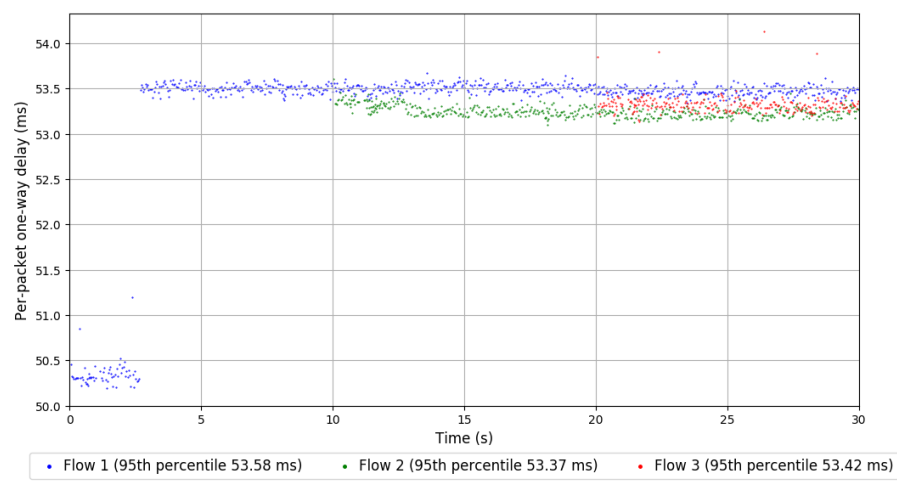
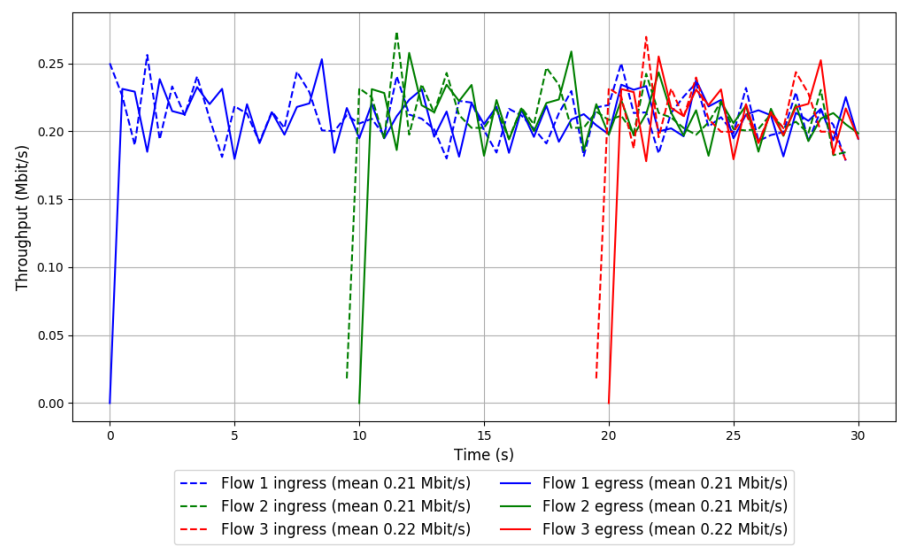
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.418 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

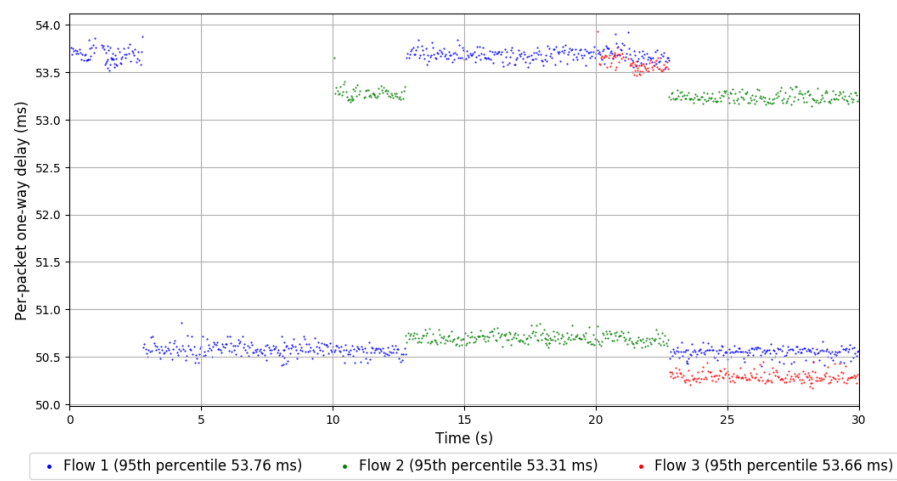
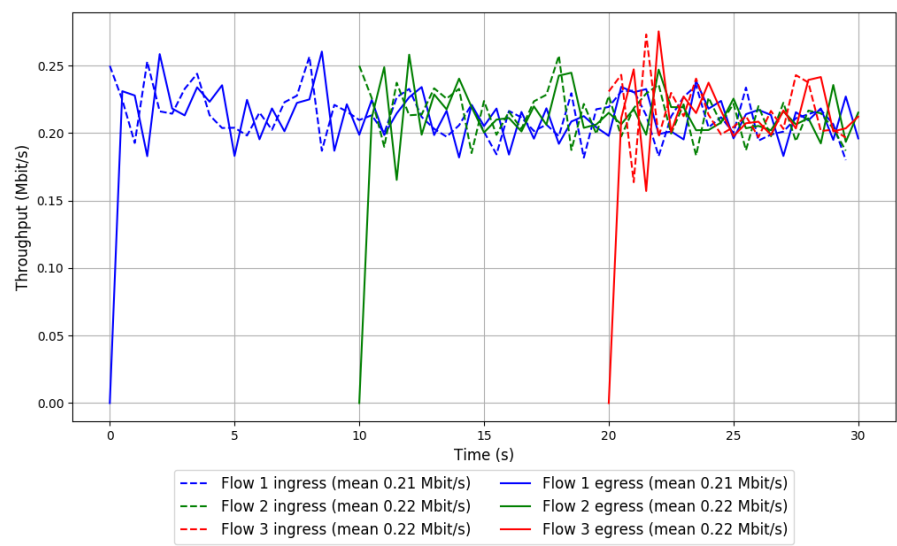


Run 9: Statistics of SReAM

Start at: 2018-06-07 08:12:40
End at: 2018-06-07 08:13:10
Local clock offset: -0.069 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.760 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.312 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

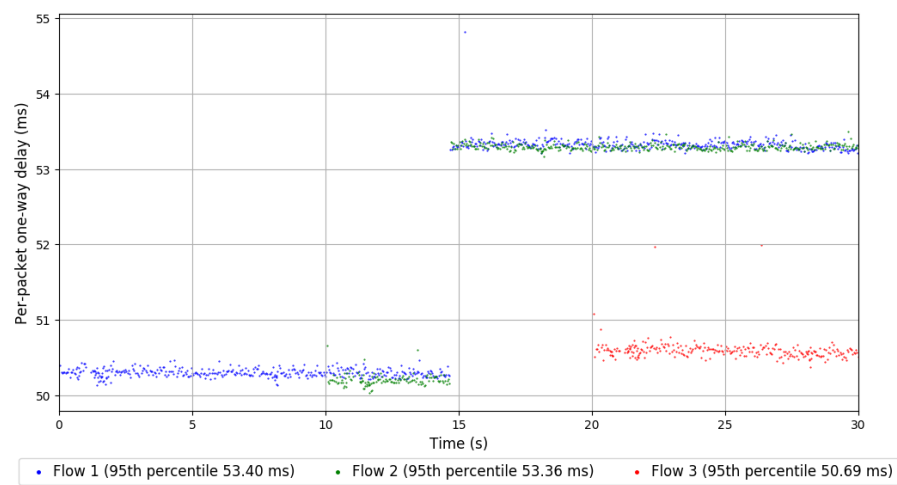
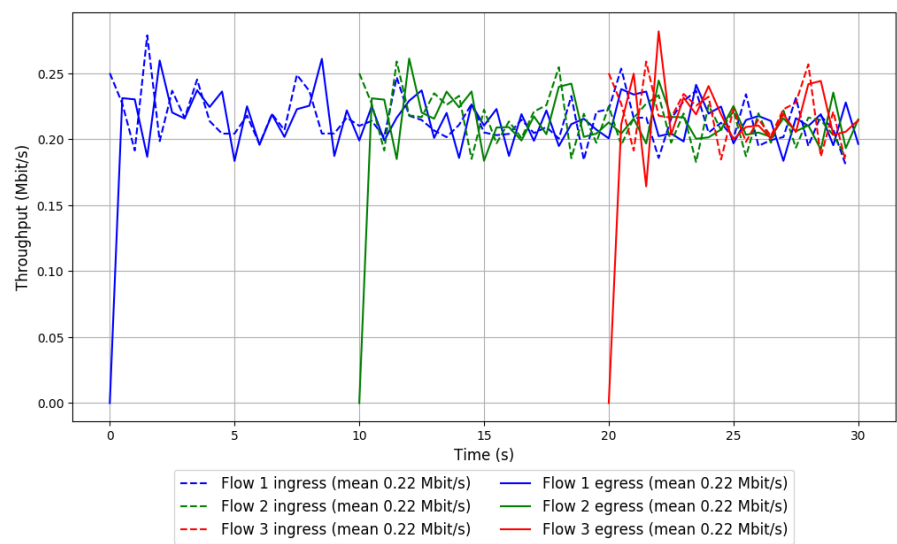


Run 10: Statistics of SCReAM

Start at: 2018-06-07 08:35:38
End at: 2018-06-07 08:36:08
Local clock offset: -0.191 ms
Remote clock offset: -0.211 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.374 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.398 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.360 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.693 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

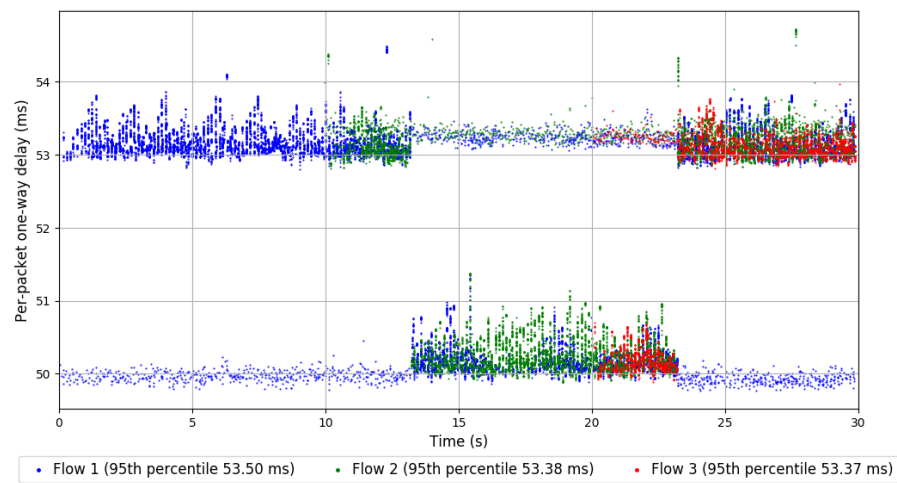
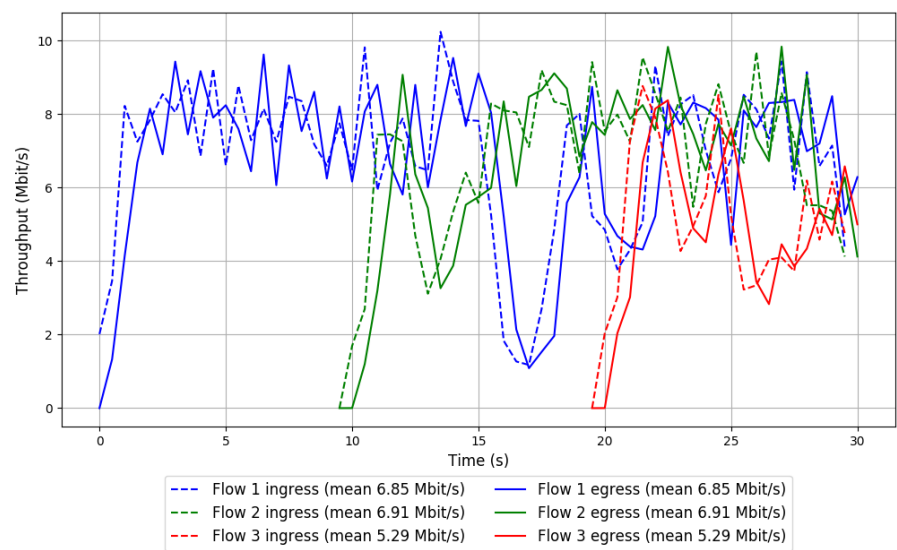


Run 1: Statistics of Sprout

Start at: 2018-06-07 05:22:24
End at: 2018-06-07 05:22:54
Local clock offset: -0.034 ms
Remote clock offset: -0.706 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.20 Mbit/s
95th percentile per-packet one-way delay: 53.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.85 Mbit/s
95th percentile per-packet one-way delay: 53.499 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 53.383 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 53.368 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

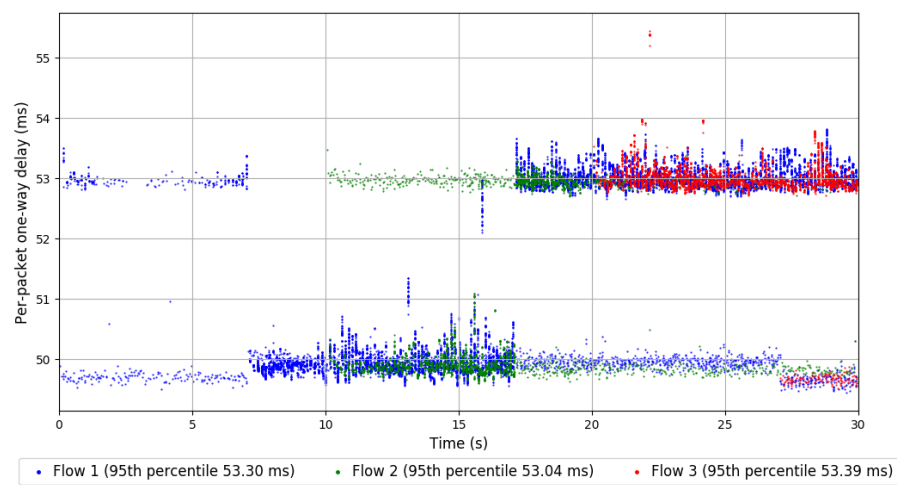
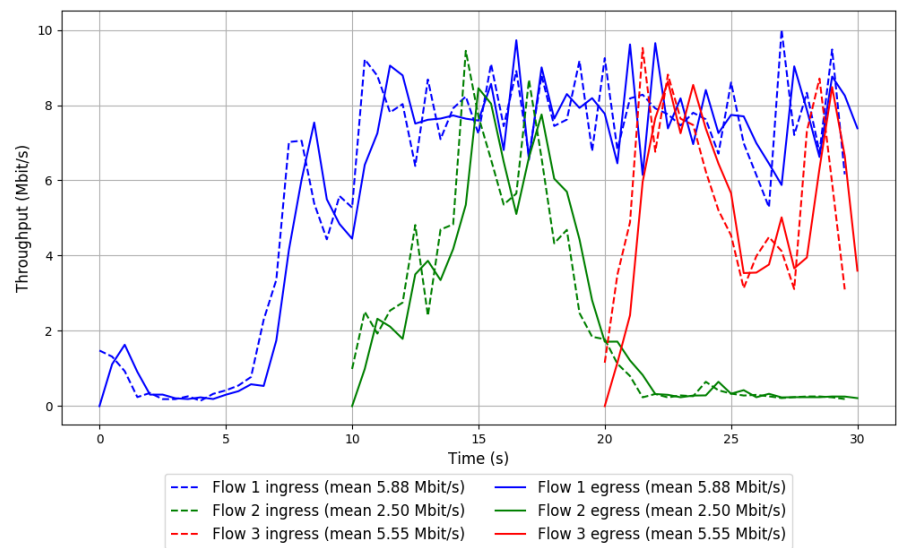


Run 2: Statistics of Sprout

Start at: 2018-06-07 05:45:11
End at: 2018-06-07 05:45:41
Local clock offset: 0.443 ms
Remote clock offset: -0.655 ms

```
# Below is generated by plot.py at 2018-06-07 10:48:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.37 Mbit/s
95th percentile per-packet one-way delay: 53.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 53.304 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 53.041 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.55 Mbit/s
95th percentile per-packet one-way delay: 53.391 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

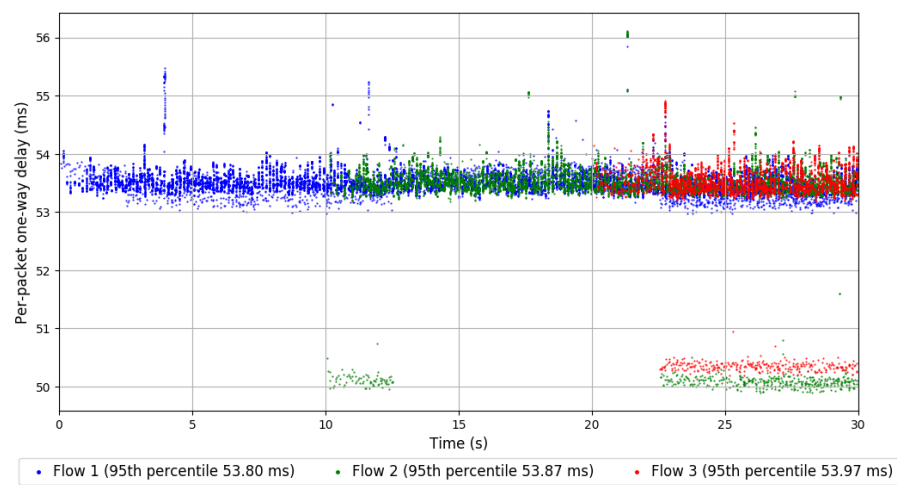
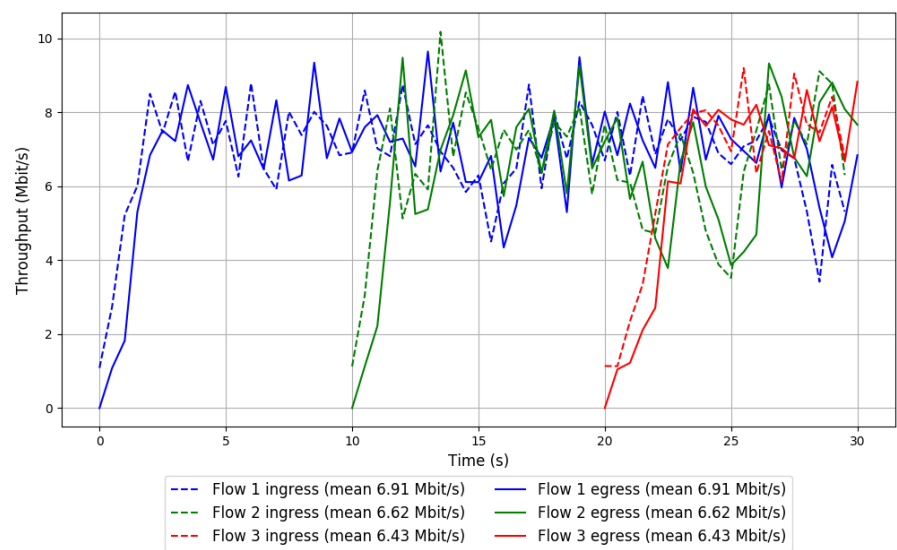


Run 3: Statistics of Sprout

Start at: 2018-06-07 06:08:15
End at: 2018-06-07 06:08:45
Local clock offset: 0.148 ms
Remote clock offset: -0.505 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.43 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.91 Mbit/s
95th percentile per-packet one-way delay: 53.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 53.872 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 53.973 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

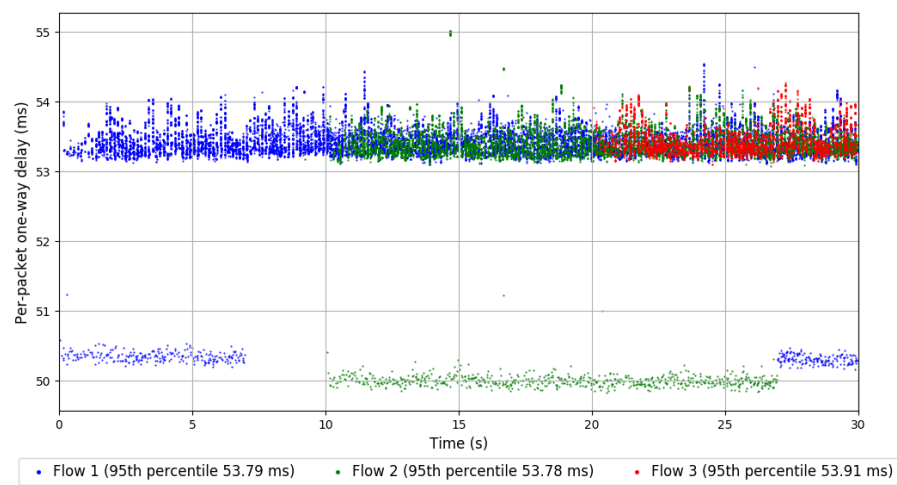
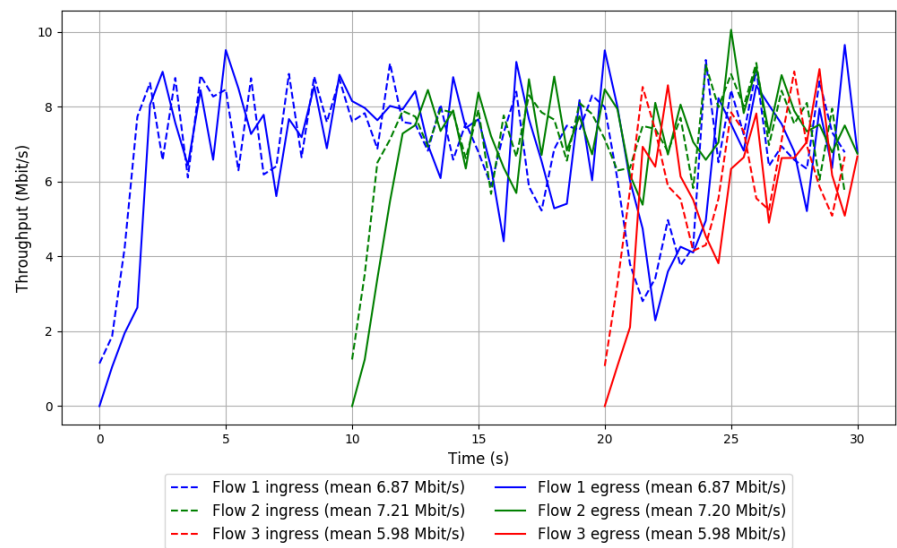


Run 4: Statistics of Sprout

Start at: 2018-06-07 06:30:46
End at: 2018-06-07 06:31:16
Local clock offset: 0.102 ms
Remote clock offset: -0.705 ms

```
# Below is generated by plot.py at 2018-06-07 10:48:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.63 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.20 Mbit/s
95th percentile per-packet one-way delay: 53.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.98 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

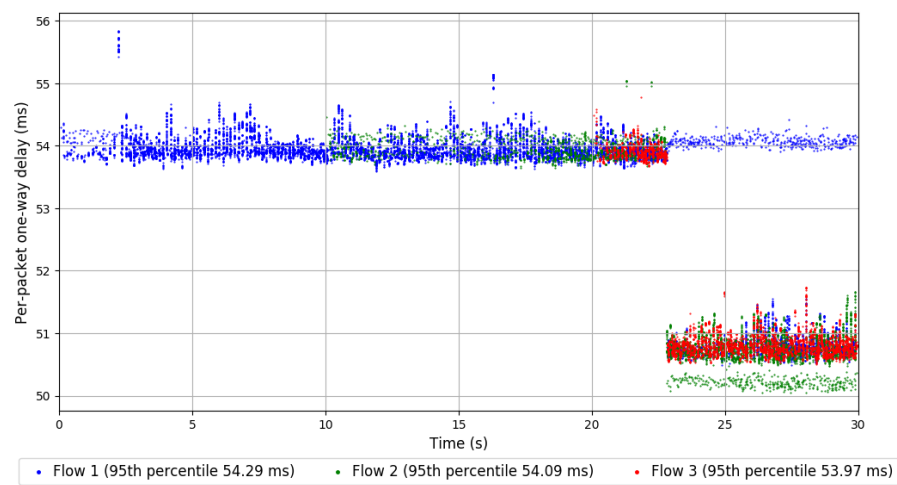
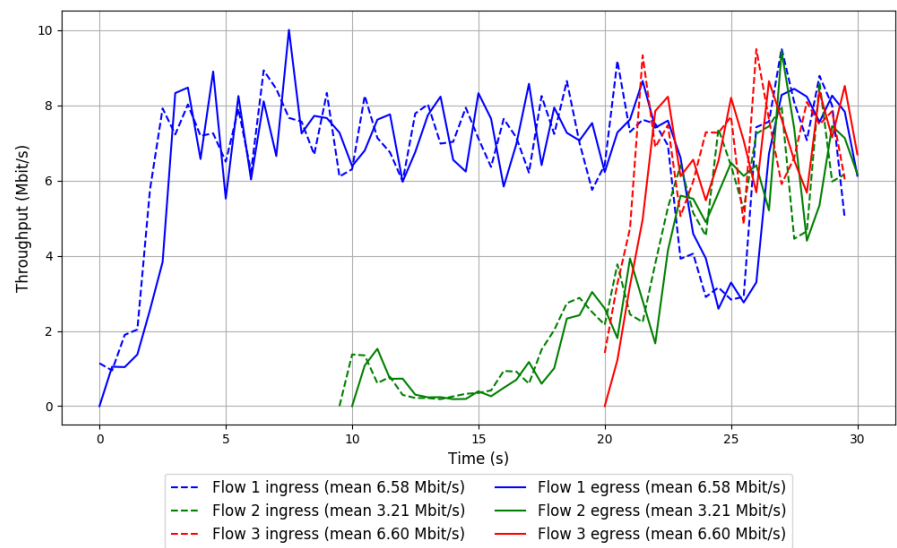


Run 5: Statistics of Sprout

Start at: 2018-06-07 06:53:50
End at: 2018-06-07 06:54:20
Local clock offset: -0.021 ms
Remote clock offset: 0.259 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 54.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.58 Mbit/s
95th percentile per-packet one-way delay: 54.287 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.21 Mbit/s
95th percentile per-packet one-way delay: 54.090 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 53.973 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

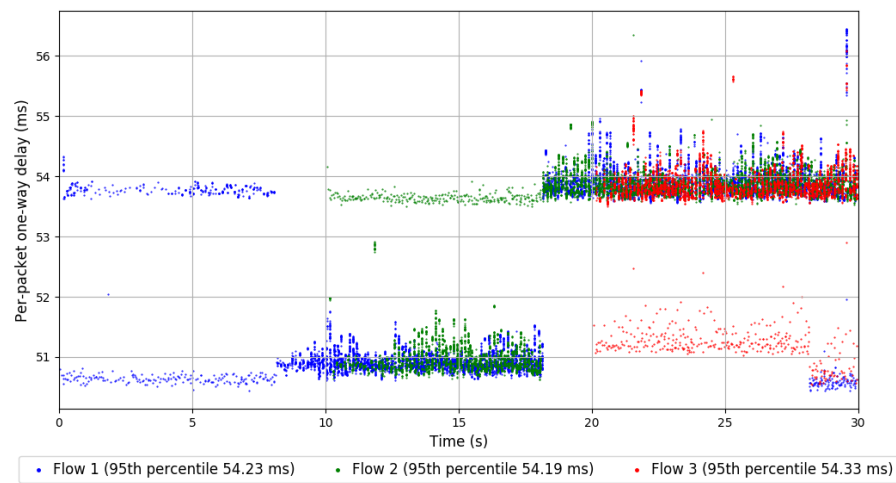
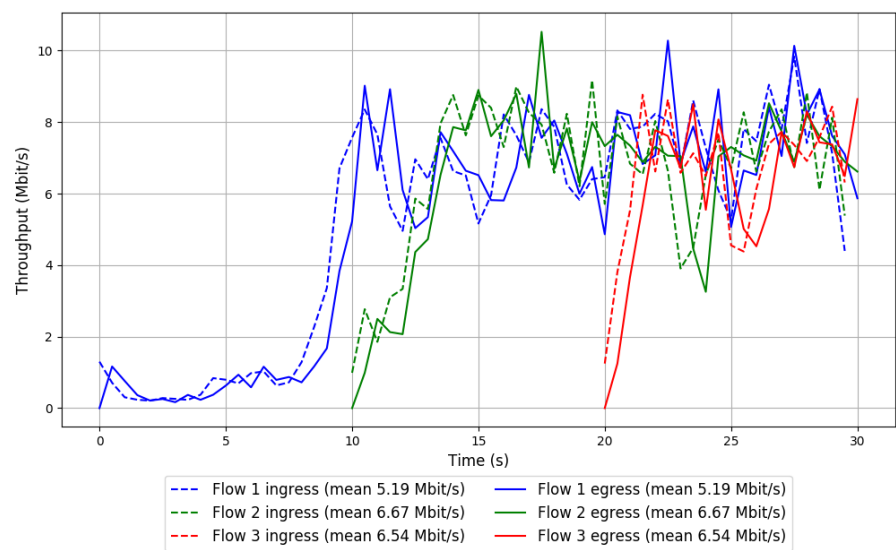


Run 6: Statistics of Sprout

Start at: 2018-06-07 07:16:25
End at: 2018-06-07 07:16:55
Local clock offset: -0.183 ms
Remote clock offset: 0.396 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 54.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 54.226 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.67 Mbit/s
95th percentile per-packet one-way delay: 54.194 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 54.330 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

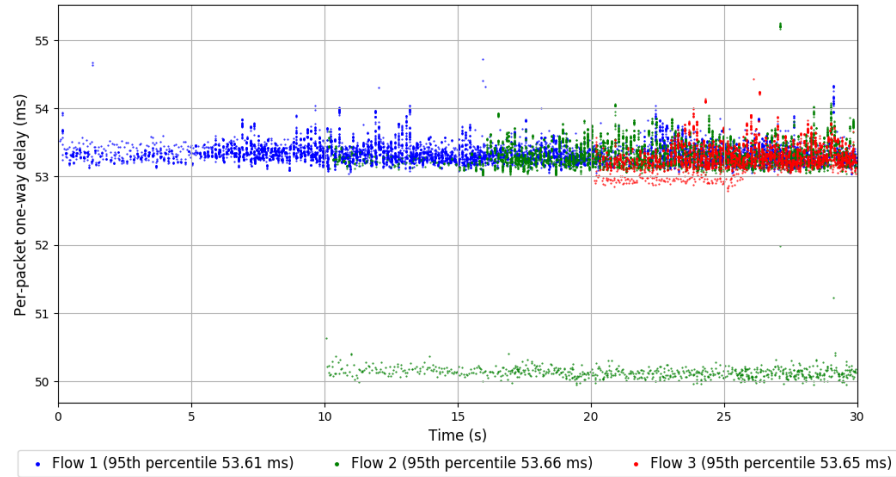
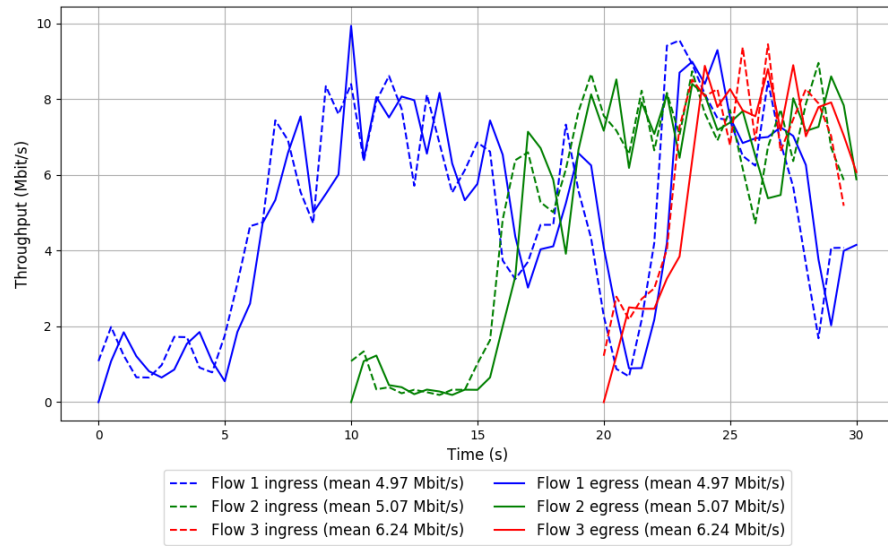


Run 7: Statistics of Sprout

Start at: 2018-06-07 07:39:47
End at: 2018-06-07 07:40:17
Local clock offset: 0.001 ms
Remote clock offset: 0.27 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 53.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.97 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.07 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 53.654 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

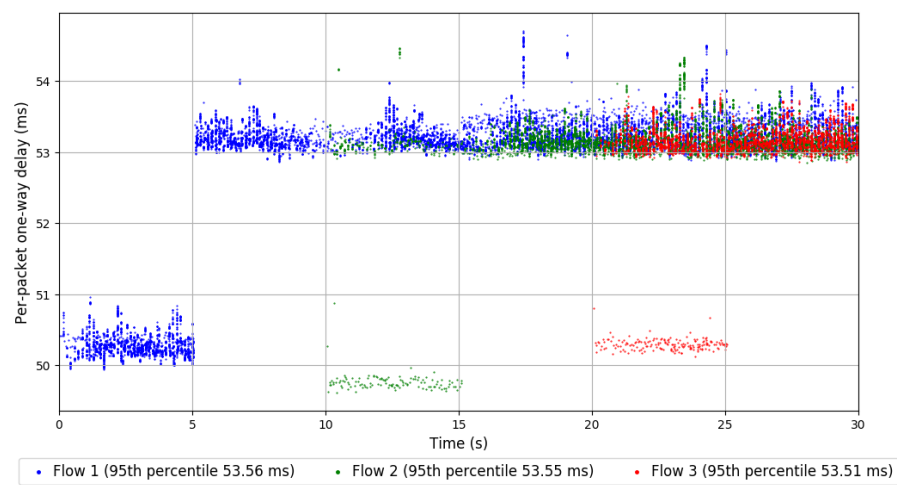
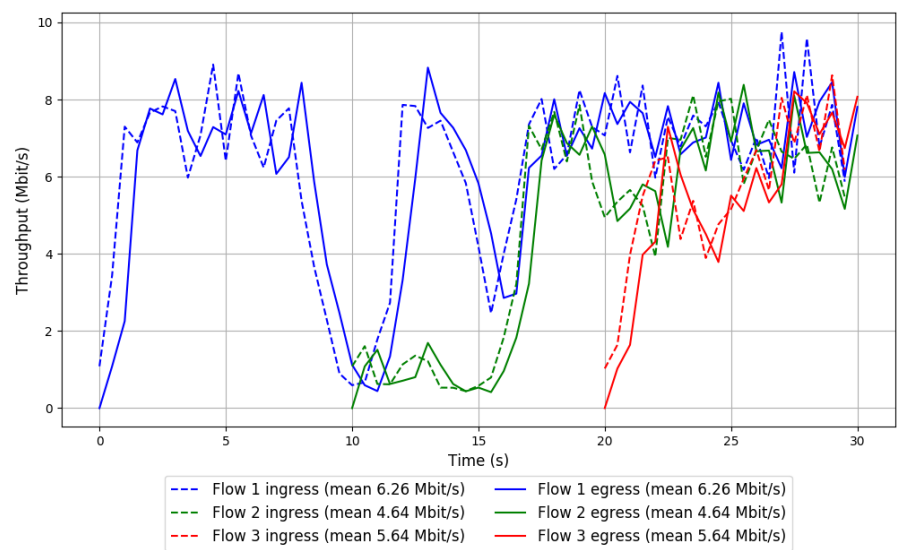


Run 8: Statistics of Sprout

Start at: 2018-06-07 08:02:48
End at: 2018-06-07 08:03:18
Local clock offset: 0.166 ms
Remote clock offset: -0.087 ms

```
# Below is generated by plot.py at 2018-06-07 10:48:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 53.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 53.559 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 53.547 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 53.505 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

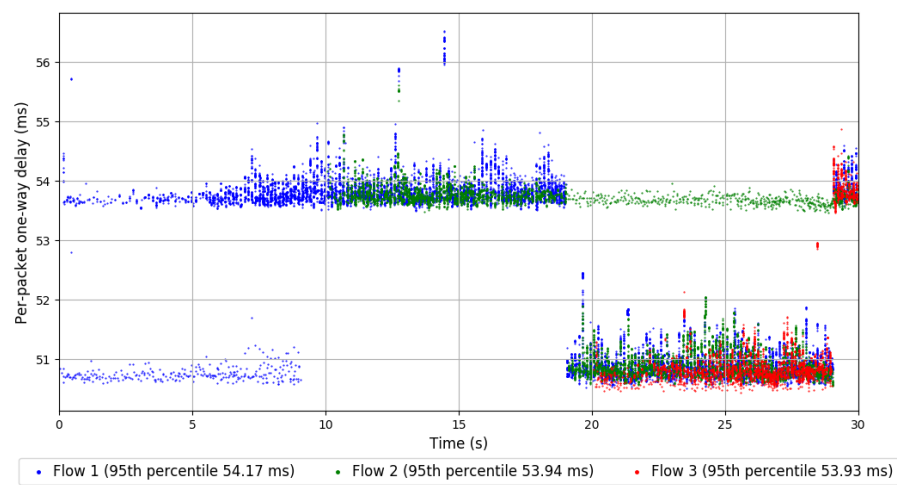
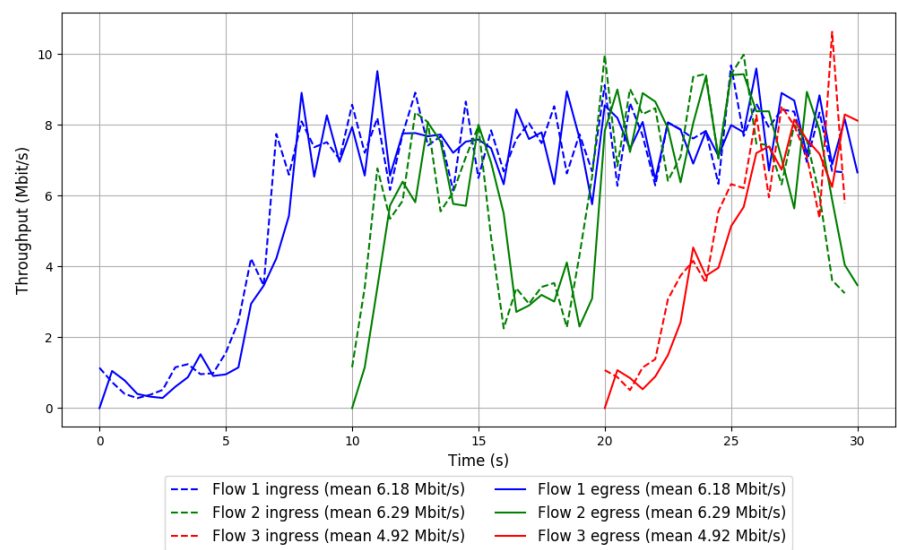


Run 9: Statistics of Sprout

Start at: 2018-06-07 08:25:24
End at: 2018-06-07 08:25:54
Local clock offset: -0.421 ms
Remote clock offset: -0.06 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 54.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 54.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.29 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.92 Mbit/s
95th percentile per-packet one-way delay: 53.927 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

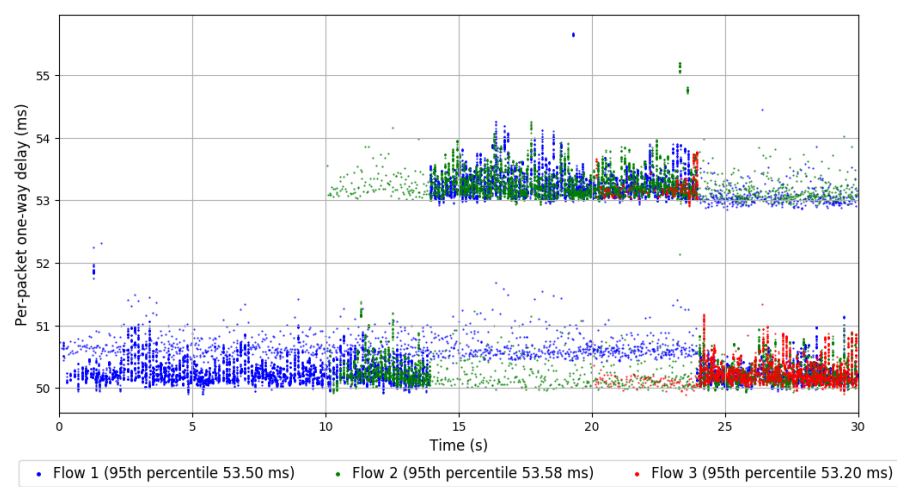
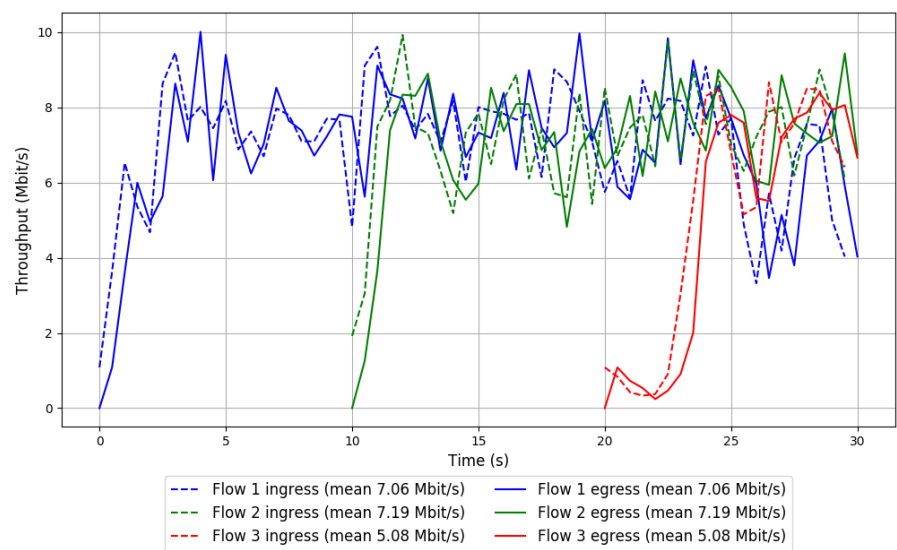


Run 10: Statistics of Sprout

Start at: 2018-06-07 08:48:39
End at: 2018-06-07 08:49:09
Local clock offset: 0.153 ms
Remote clock offset: -0.027 ms

Below is generated by plot.py at 2018-06-07 10:48:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.51 Mbit/s
95th percentile per-packet one-way delay: 53.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 53.503 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.19 Mbit/s
95th percentile per-packet one-way delay: 53.576 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 53.198 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

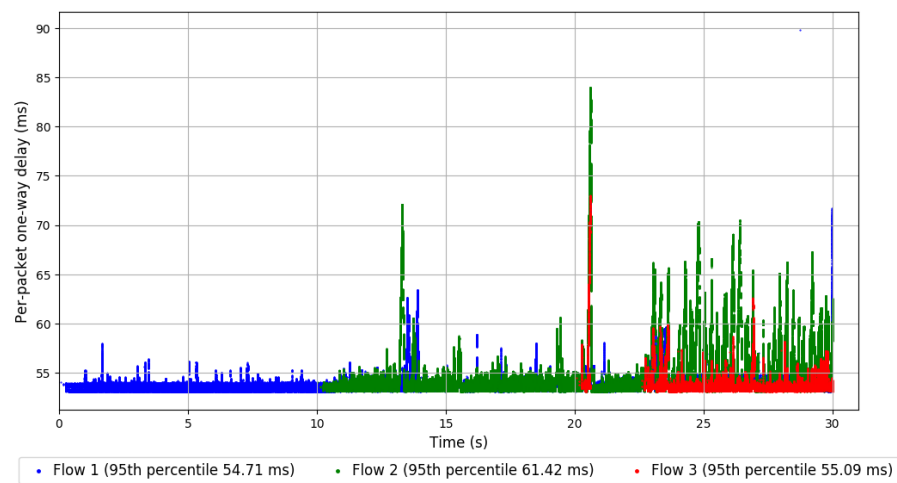
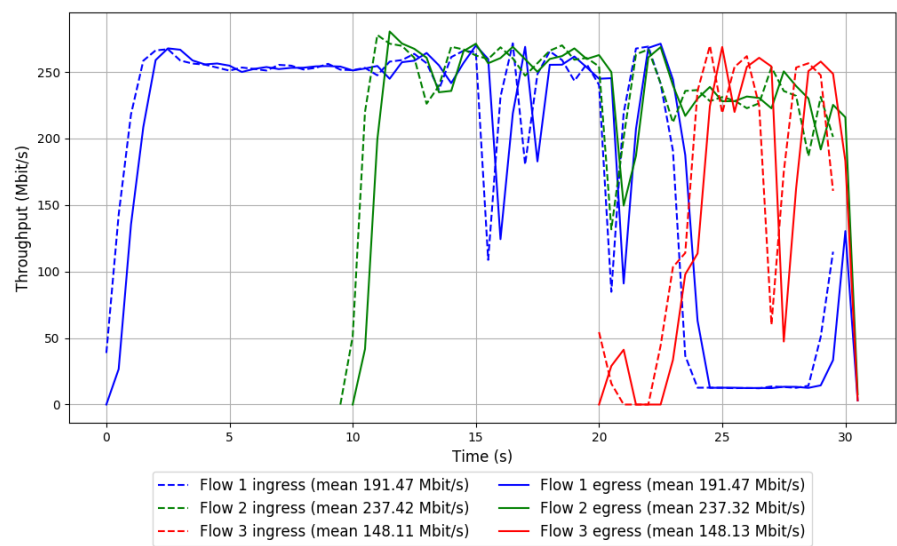


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-07 05:08:02
End at: 2018-06-07 05:08:32
Local clock offset: -0.168 ms
Remote clock offset: -0.469 ms

# Below is generated by plot.py at 2018-06-07 10:55:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 398.89 Mbit/s
95th percentile per-packet one-way delay: 58.100 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 191.47 Mbit/s
95th percentile per-packet one-way delay: 54.712 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 237.32 Mbit/s
95th percentile per-packet one-way delay: 61.420 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 148.13 Mbit/s
95th percentile per-packet one-way delay: 55.086 ms
Loss rate: 0.00%
```

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

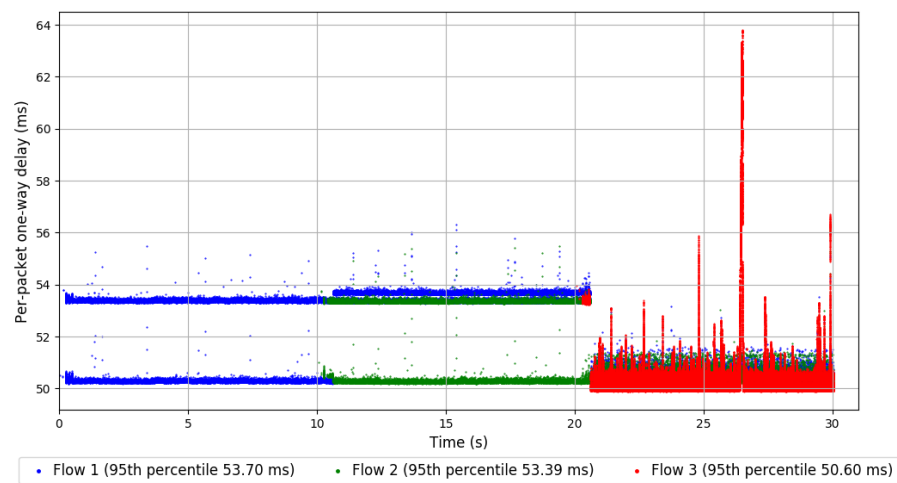
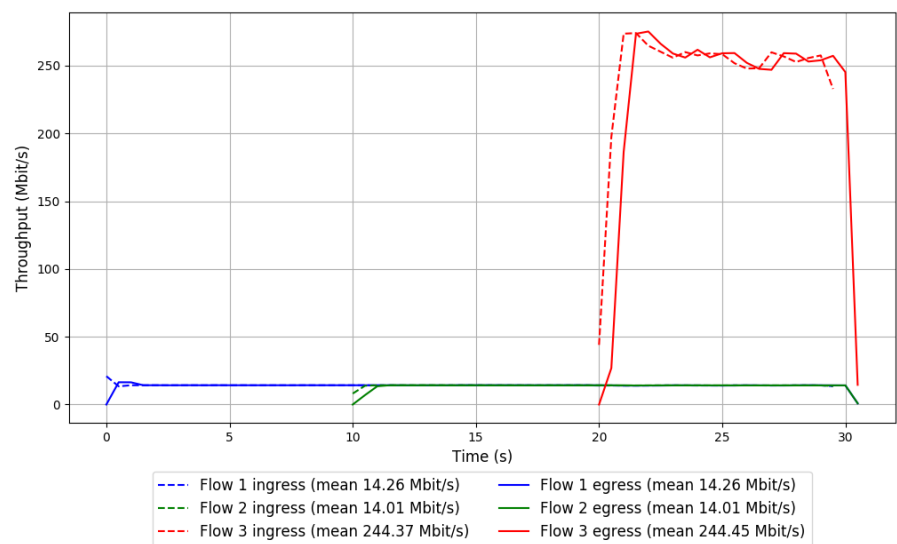


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-07 05:31:07
End at: 2018-06-07 05:31:37
Local clock offset: -0.394 ms
Remote clock offset: -0.606 ms

Below is generated by plot.py at 2018-06-07 10:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 104.76 Mbit/s
95th percentile per-packet one-way delay: 53.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.26 Mbit/s
95th percentile per-packet one-way delay: 53.699 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 53.391 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 244.45 Mbit/s
95th percentile per-packet one-way delay: 50.600 ms
Loss rate: 0.00%

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

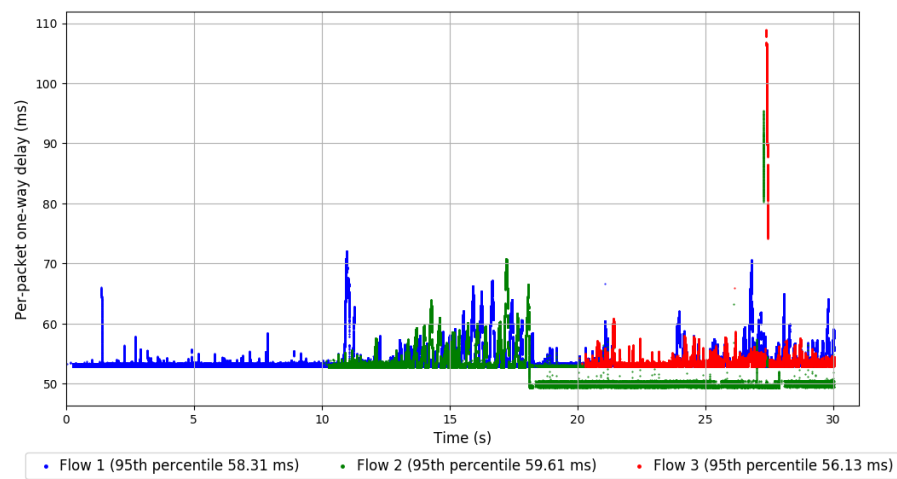
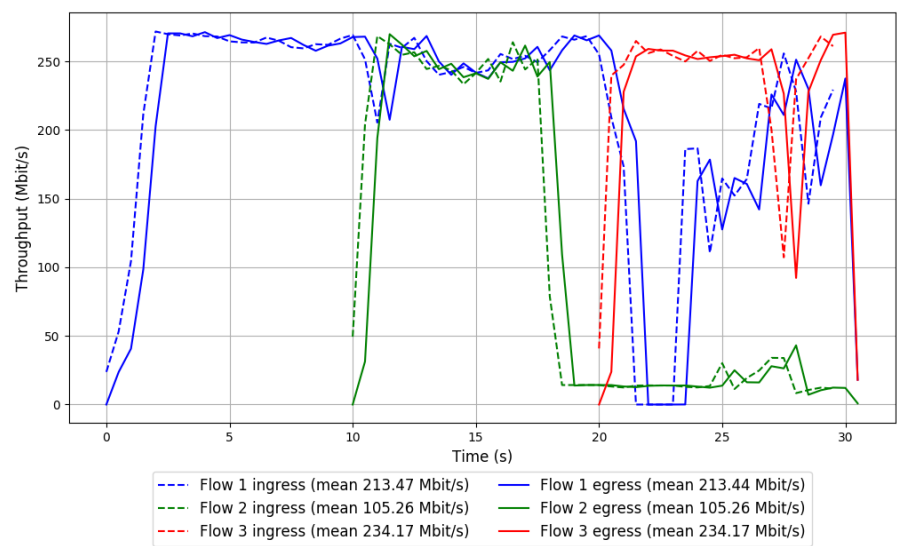


Run 3: Statistics of TaoVA-100x

Start at: 2018-06-07 05:53:50
End at: 2018-06-07 05:54:20
Local clock offset: 0.12 ms
Remote clock offset: -0.761 ms

Below is generated by plot.py at 2018-06-07 10:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.33 Mbit/s
95th percentile per-packet one-way delay: 58.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.44 Mbit/s
95th percentile per-packet one-way delay: 58.314 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 105.26 Mbit/s
95th percentile per-packet one-way delay: 59.610 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 234.17 Mbit/s
95th percentile per-packet one-way delay: 56.132 ms
Loss rate: 0.00%

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

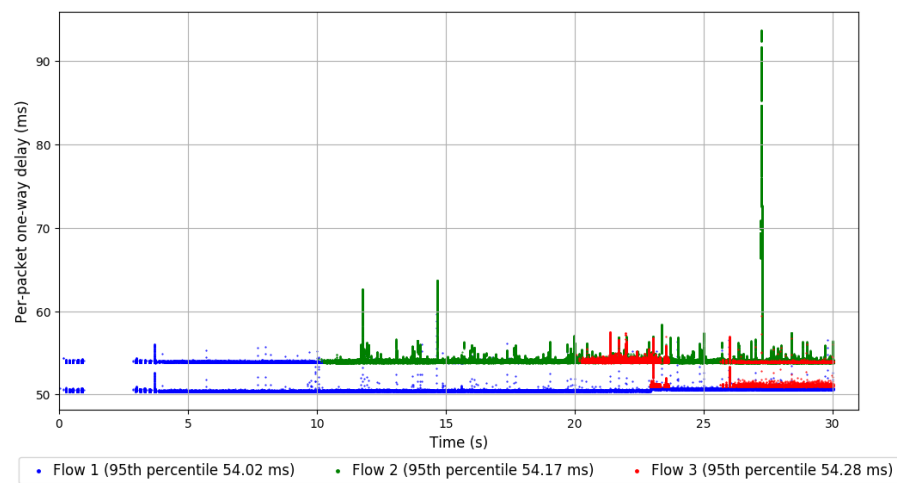
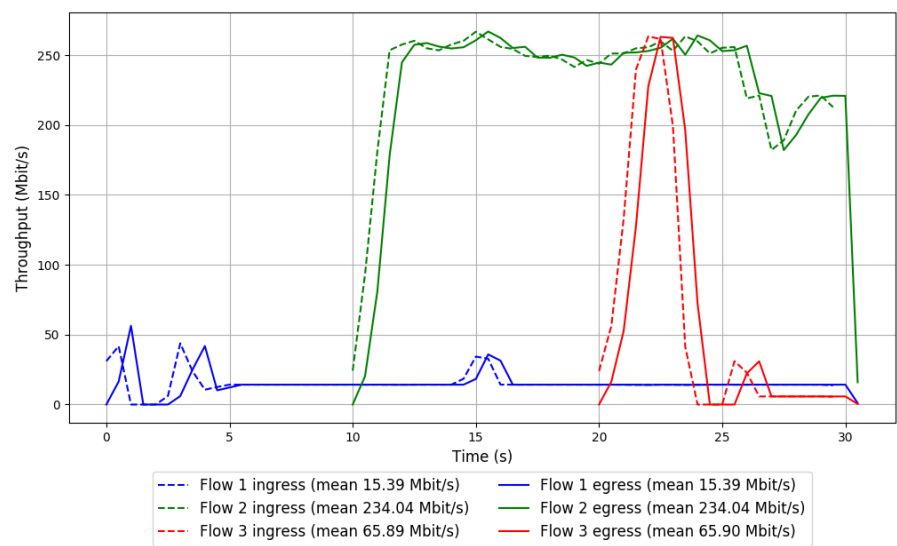


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-07 06:16:45
End at: 2018-06-07 06:17:15
Local clock offset: -0.292 ms
Remote clock offset: -0.281 ms

Below is generated by plot.py at 2018-06-07 10:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 193.16 Mbit/s
95th percentile per-packet one-way delay: 54.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 54.019 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 234.04 Mbit/s
95th percentile per-packet one-way delay: 54.174 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 65.90 Mbit/s
95th percentile per-packet one-way delay: 54.278 ms
Loss rate: 0.00%

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

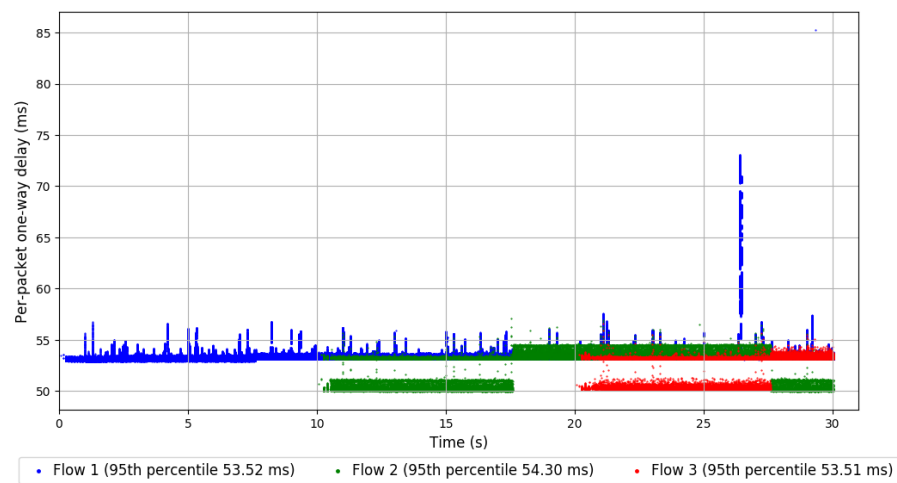
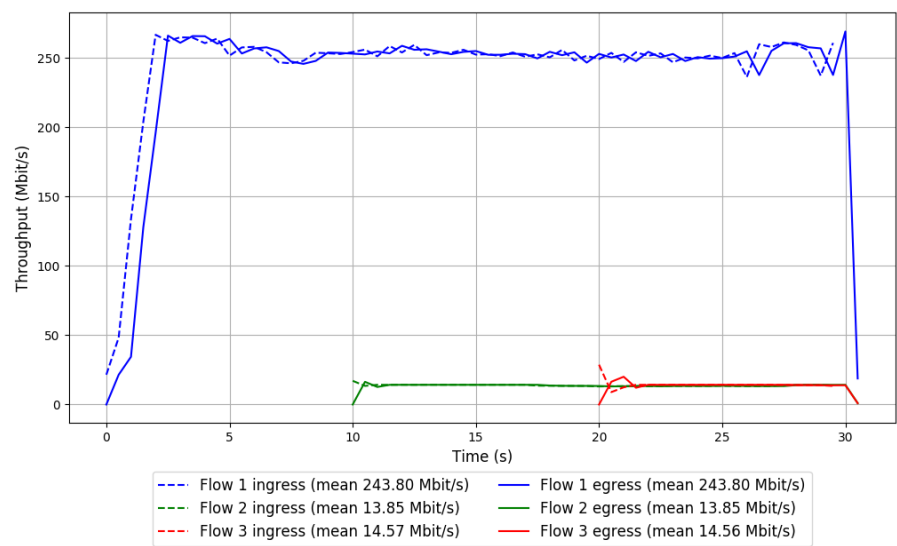


Run 5: Statistics of TaoVA-100x

Start at: 2018-06-07 06:39:26
End at: 2018-06-07 06:39:56
Local clock offset: 0.027 ms
Remote clock offset: -0.406 ms

Below is generated by plot.py at 2018-06-07 10:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 257.87 Mbit/s
95th percentile per-packet one-way delay: 53.536 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.80 Mbit/s
95th percentile per-packet one-way delay: 53.524 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.85 Mbit/s
95th percentile per-packet one-way delay: 54.299 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.56 Mbit/s
95th percentile per-packet one-way delay: 53.508 ms
Loss rate: 0.00%

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

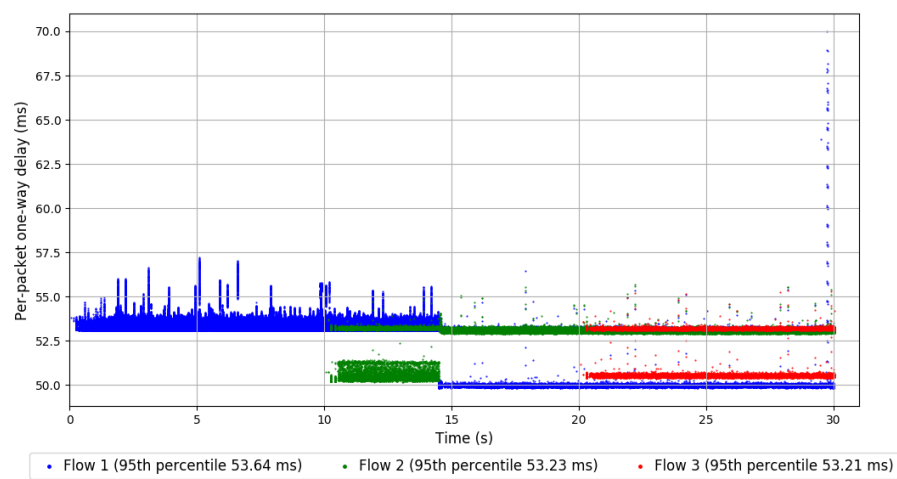
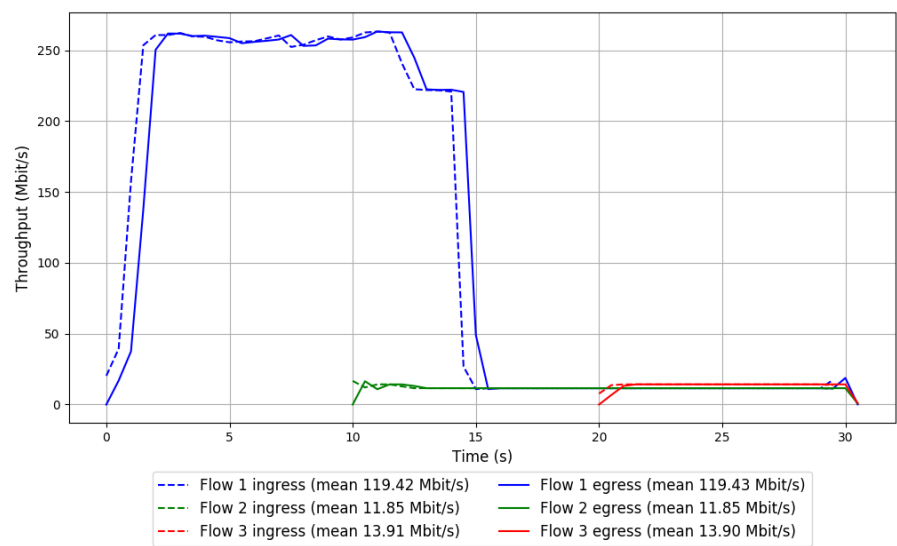


Run 6: Statistics of TaoVA-100x

Start at: 2018-06-07 07:02:29
End at: 2018-06-07 07:02:59
Local clock offset: 0.038 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-06-07 10:55:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 131.81 Mbit/s
95th percentile per-packet one-way delay: 53.629 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 119.43 Mbit/s
95th percentile per-packet one-way delay: 53.638 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 53.233 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 53.210 ms
Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-07 07:25:09

End at: 2018-06-07 07:25:39

Local clock offset: -0.047 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-06-07 11:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 422.06 Mbit/s

95th percentile per-packet one-way delay: 55.881 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 237.18 Mbit/s

95th percentile per-packet one-way delay: 55.164 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 187.53 Mbit/s

95th percentile per-packet one-way delay: 55.502 ms

Loss rate: 0.00%

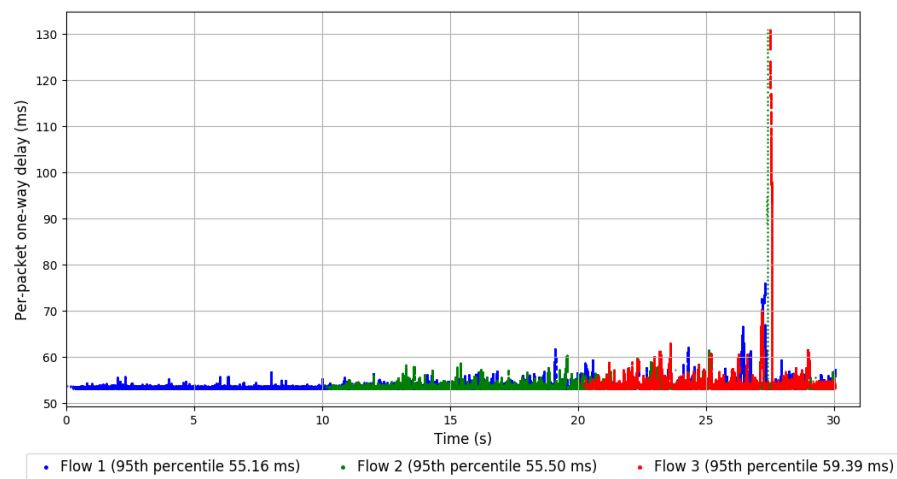
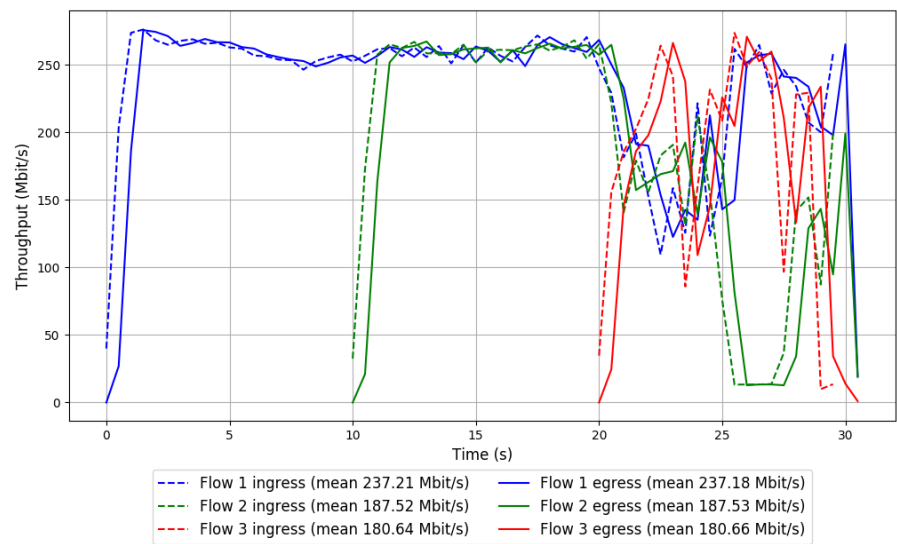
-- Flow 3:

Average throughput: 180.66 Mbit/s

95th percentile per-packet one-way delay: 59.390 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-07 07:48:33

End at: 2018-06-07 07:49:03

Local clock offset: -0.143 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-07 11:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.71 Mbit/s

95th percentile per-packet one-way delay: 53.520 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 53.265 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 112.76 Mbit/s

95th percentile per-packet one-way delay: 53.626 ms

Loss rate: 0.04%

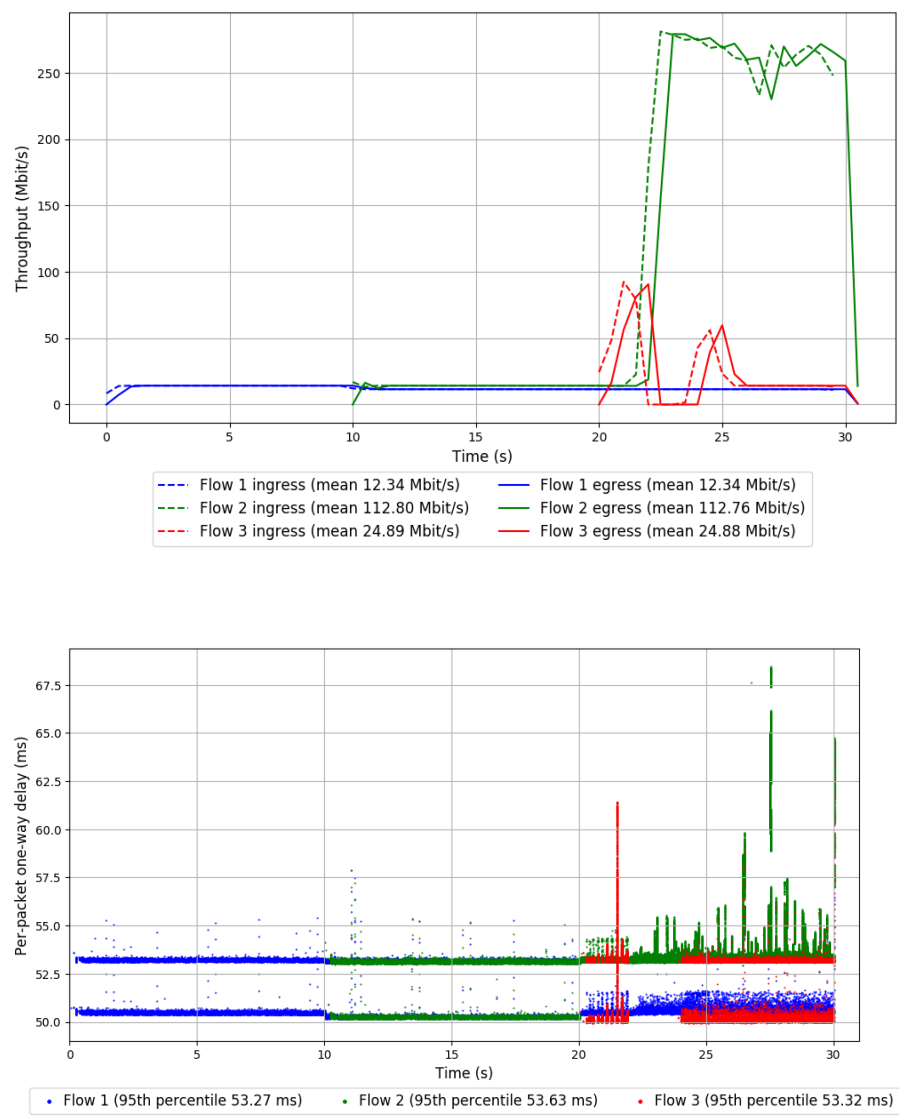
-- Flow 3:

Average throughput: 24.88 Mbit/s

95th percentile per-packet one-way delay: 53.322 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-07 08:11:11

End at: 2018-06-07 08:11:41

Local clock offset: -0.082 ms

Remote clock offset: 0.144 ms

Below is generated by plot.py at 2018-06-07 11:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 236.01 Mbit/s

95th percentile per-packet one-way delay: 53.650 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 215.56 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.90 Mbit/s

95th percentile per-packet one-way delay: 53.915 ms

Loss rate: 0.00%

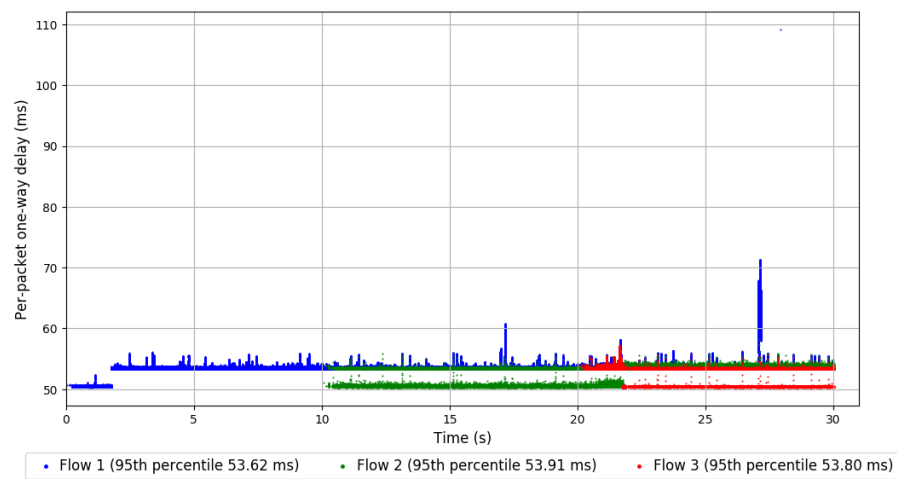
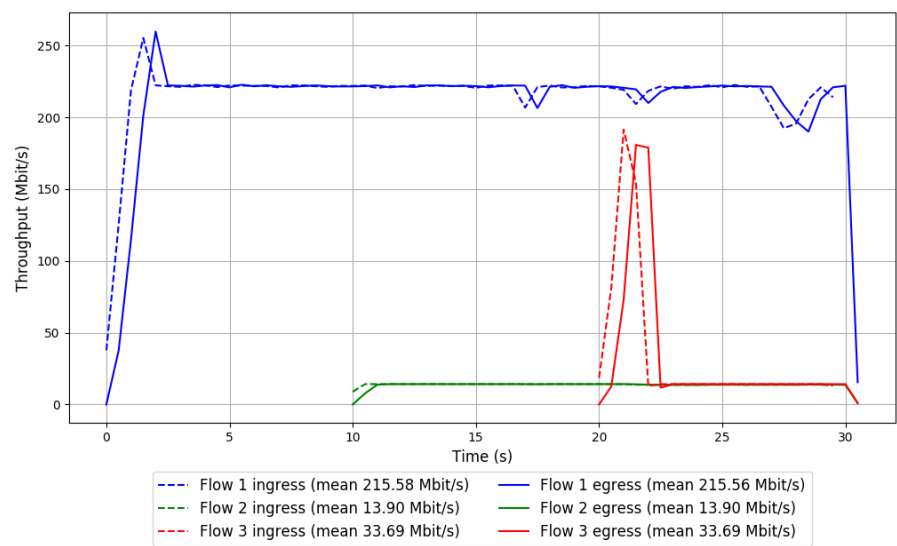
-- Flow 3:

Average throughput: 33.69 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.00%

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

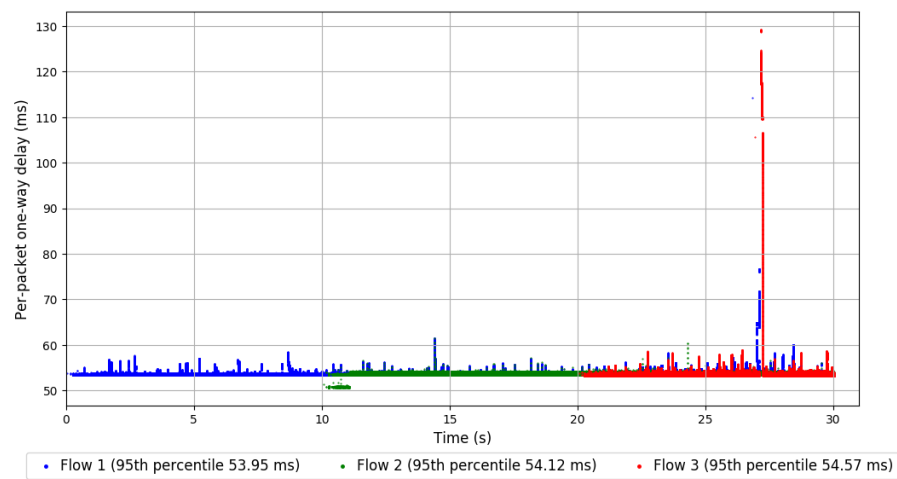
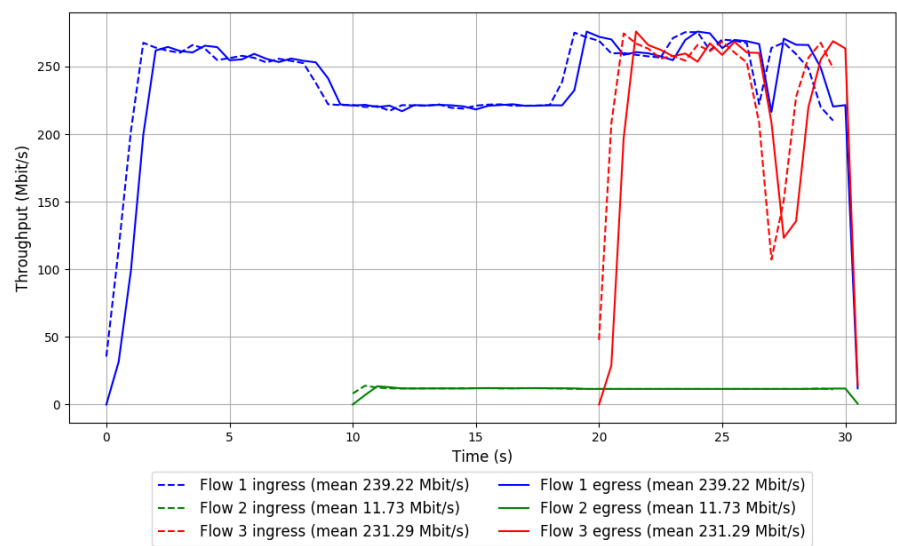


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-07 08:34:02
End at: 2018-06-07 08:34:32
Local clock offset: -0.335 ms
Remote clock offset: -0.045 ms

Below is generated by plot.py at 2018-06-07 11:00:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 323.85 Mbit/s
95th percentile per-packet one-way delay: 54.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.22 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.73 Mbit/s
95th percentile per-packet one-way delay: 54.115 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 231.29 Mbit/s
95th percentile per-packet one-way delay: 54.566 ms
Loss rate: 0.00%

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

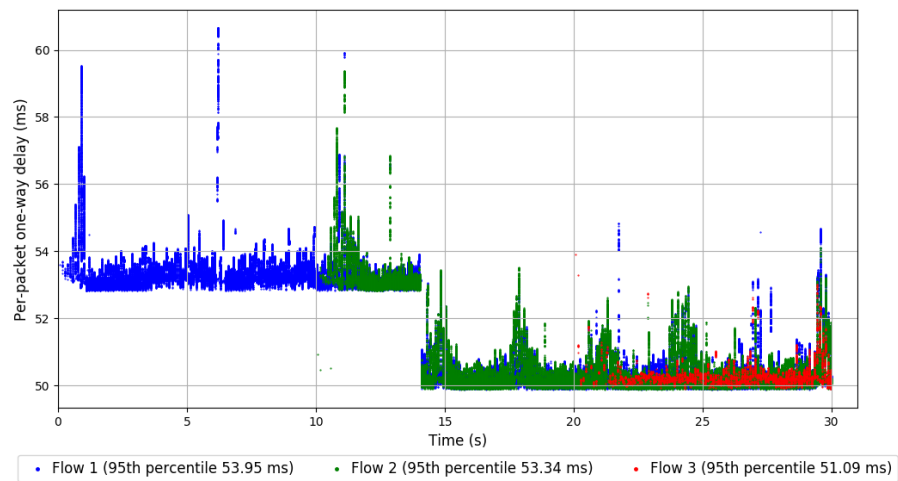
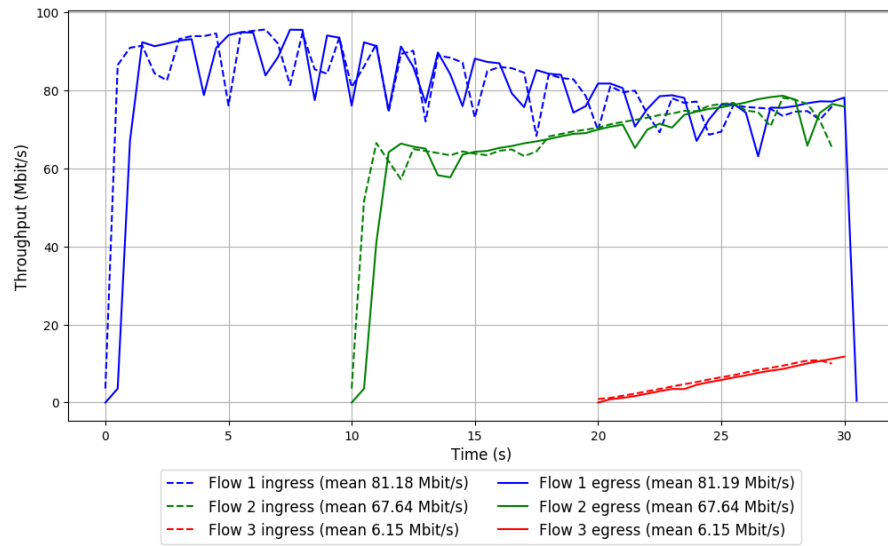


Run 1: Statistics of TCP Vegas

Start at: 2018-06-07 05:23:34
End at: 2018-06-07 05:24:04
Local clock offset: 0.221 ms
Remote clock offset: -0.378 ms

Below is generated by plot.py at 2018-06-07 11:00:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 128.25 Mbit/s
95th percentile per-packet one-way delay: 53.848 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.19 Mbit/s
95th percentile per-packet one-way delay: 53.951 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 67.64 Mbit/s
95th percentile per-packet one-way delay: 53.345 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 51.089 ms
Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link

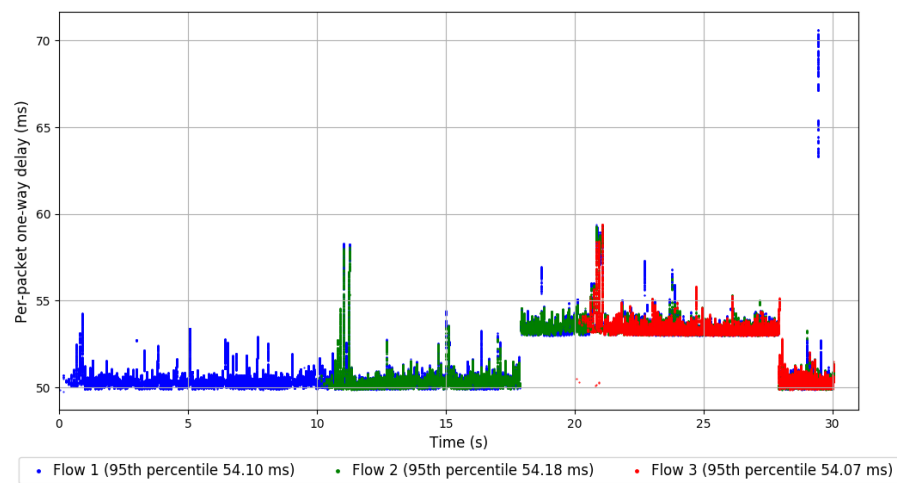
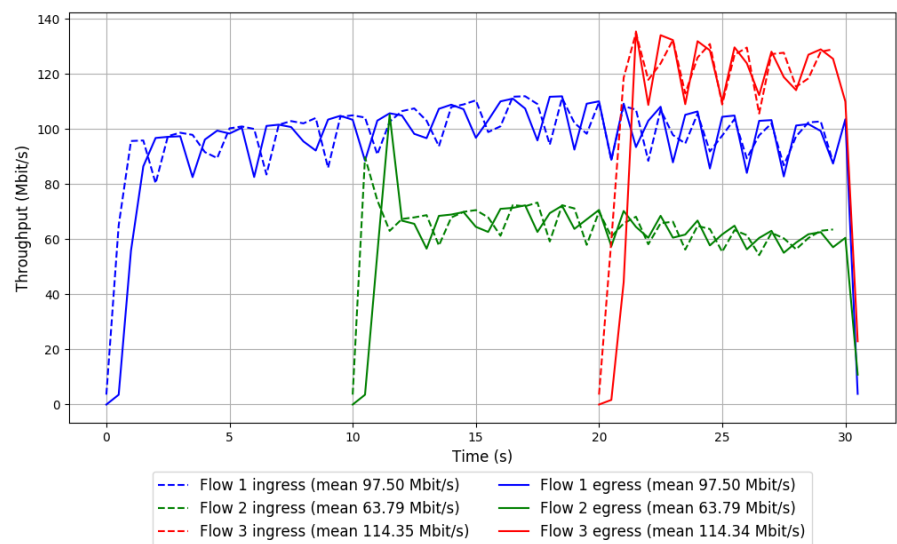


Run 2: Statistics of TCP Vegas

Start at: 2018-06-07 05:46:20
End at: 2018-06-07 05:46:50
Local clock offset: 0.114 ms
Remote clock offset: -0.637 ms

Below is generated by plot.py at 2018-06-07 11:00:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 177.95 Mbit/s
95th percentile per-packet one-way delay: 54.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 54.101 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.79 Mbit/s
95th percentile per-packet one-way delay: 54.180 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 114.34 Mbit/s
95th percentile per-packet one-way delay: 54.068 ms
Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

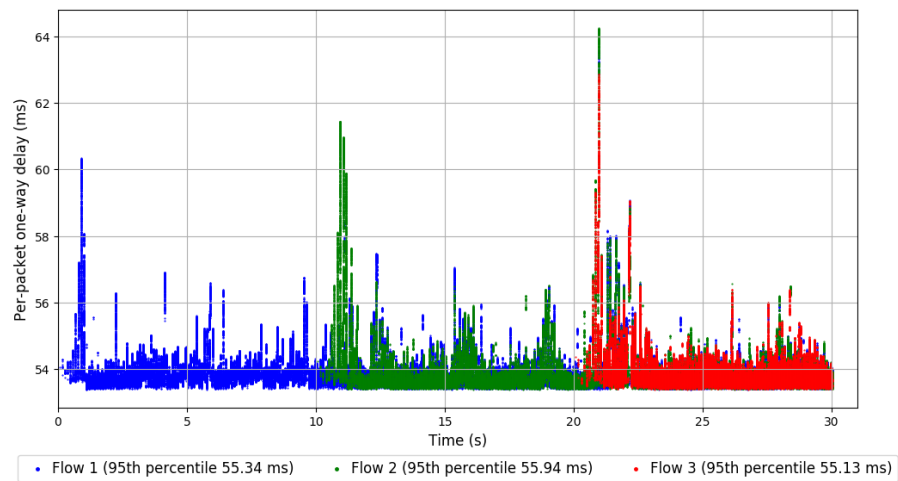
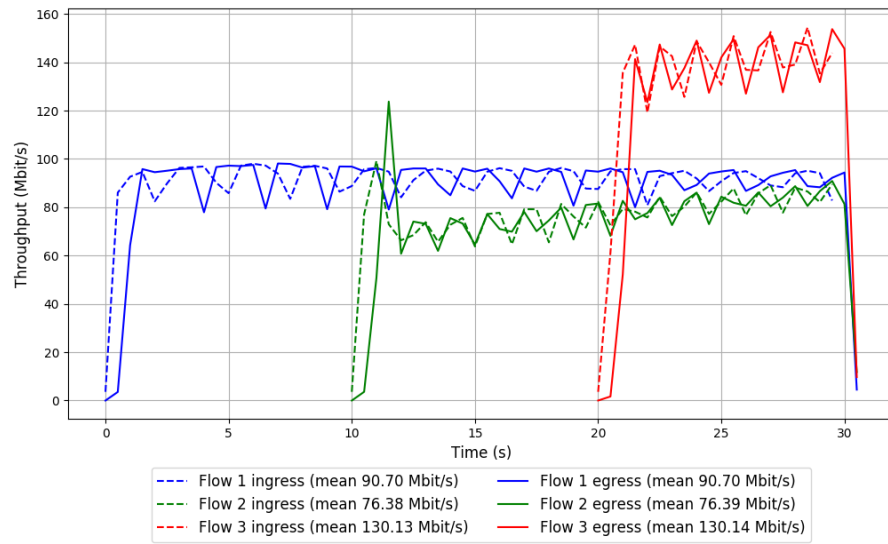


Run 3: Statistics of TCP Vegas

Start at: 2018-06-07 06:09:24
End at: 2018-06-07 06:09:54
Local clock offset: -0.049 ms
Remote clock offset: -0.428 ms

Below is generated by plot.py at 2018-06-07 11:00:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 184.72 Mbit/s
95th percentile per-packet one-way delay: 55.414 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.70 Mbit/s
95th percentile per-packet one-way delay: 55.344 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.39 Mbit/s
95th percentile per-packet one-way delay: 55.939 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 130.14 Mbit/s
95th percentile per-packet one-way delay: 55.135 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-07 06:31:56

End at: 2018-06-07 06:32:26

Local clock offset: -0.074 ms

Remote clock offset: -0.64 ms

Below is generated by plot.py at 2018-06-07 11:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.29 Mbit/s

95th percentile per-packet one-way delay: 60.531 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 114.63 Mbit/s

95th percentile per-packet one-way delay: 60.944 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 69.60 Mbit/s

95th percentile per-packet one-way delay: 54.829 ms

Loss rate: 0.00%

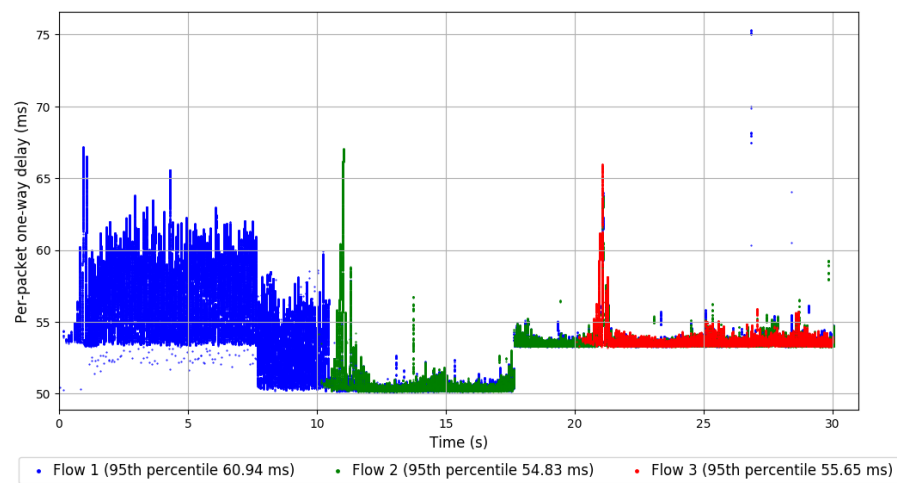
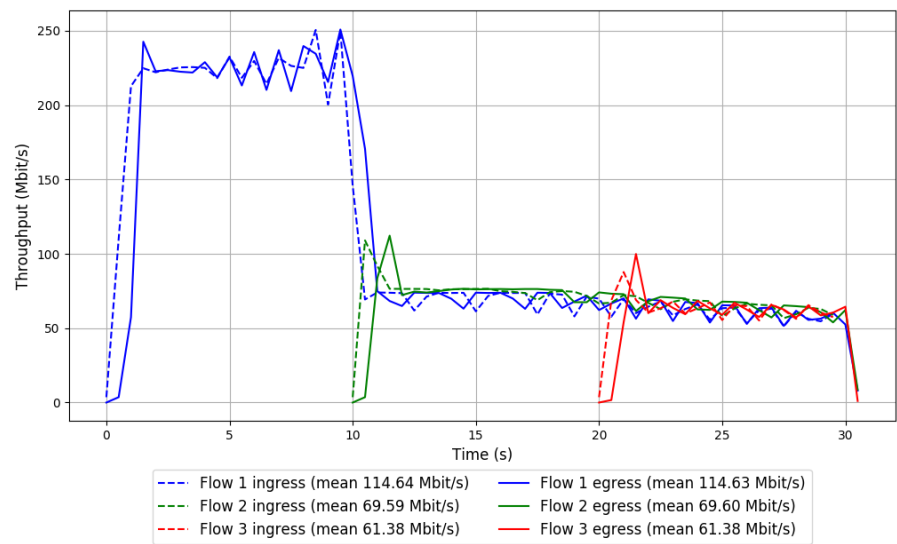
-- Flow 3:

Average throughput: 61.38 Mbit/s

95th percentile per-packet one-way delay: 55.652 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

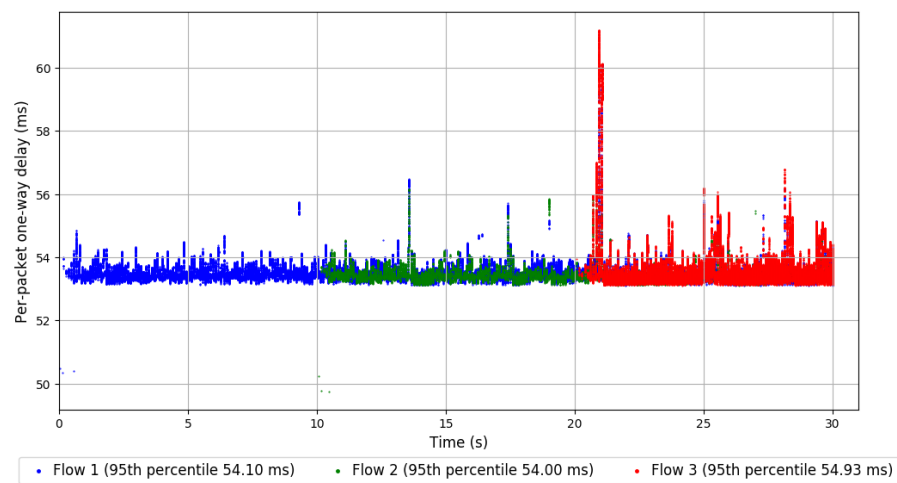
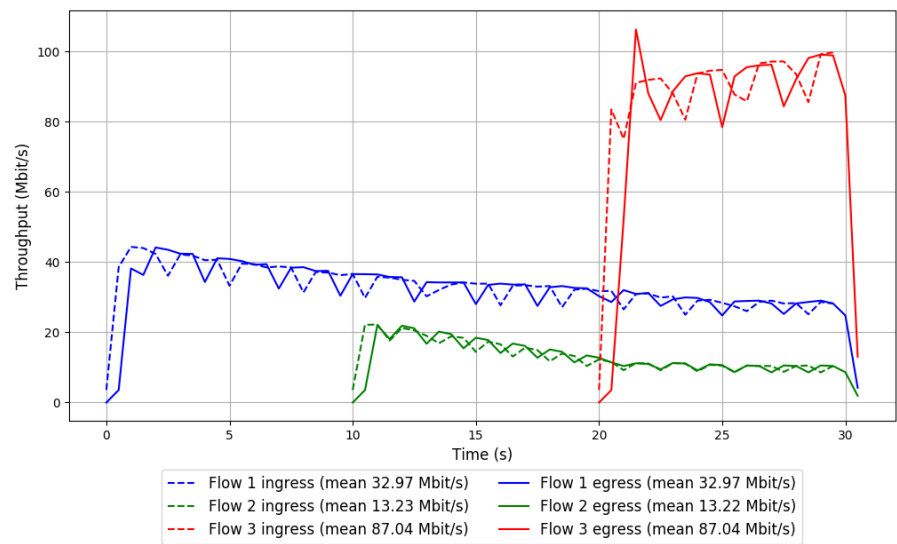


Run 5: Statistics of TCP Vegas

Start at: 2018-06-07 06:55:00
End at: 2018-06-07 06:55:30
Local clock offset: 0.137 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-06-07 11:00:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 70.68 Mbit/s
95th percentile per-packet one-way delay: 54.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.97 Mbit/s
95th percentile per-packet one-way delay: 54.103 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 54.003 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.04 Mbit/s
95th percentile per-packet one-way delay: 54.928 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-07 07:17:34

End at: 2018-06-07 07:18:04

Local clock offset: 0.084 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-06-07 11:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.12 Mbit/s

95th percentile per-packet one-way delay: 54.758 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 22.65 Mbit/s

95th percentile per-packet one-way delay: 53.961 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 108.67 Mbit/s

95th percentile per-packet one-way delay: 55.068 ms

Loss rate: 0.00%

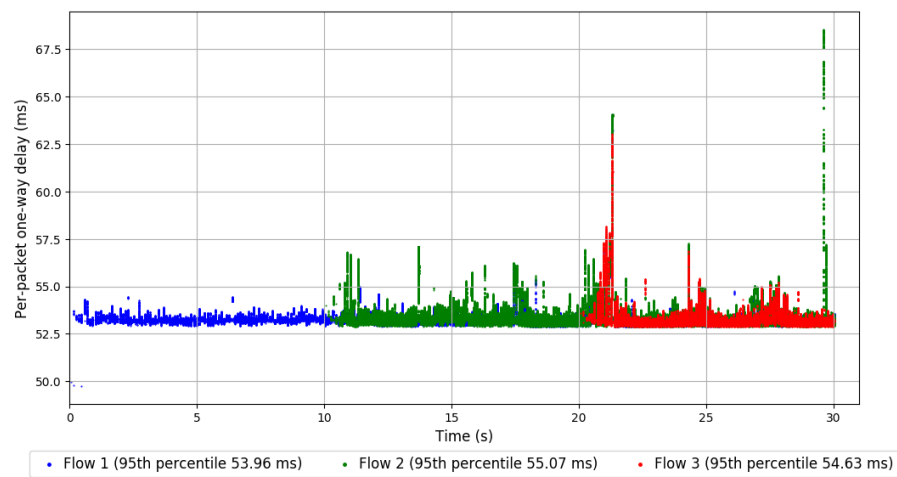
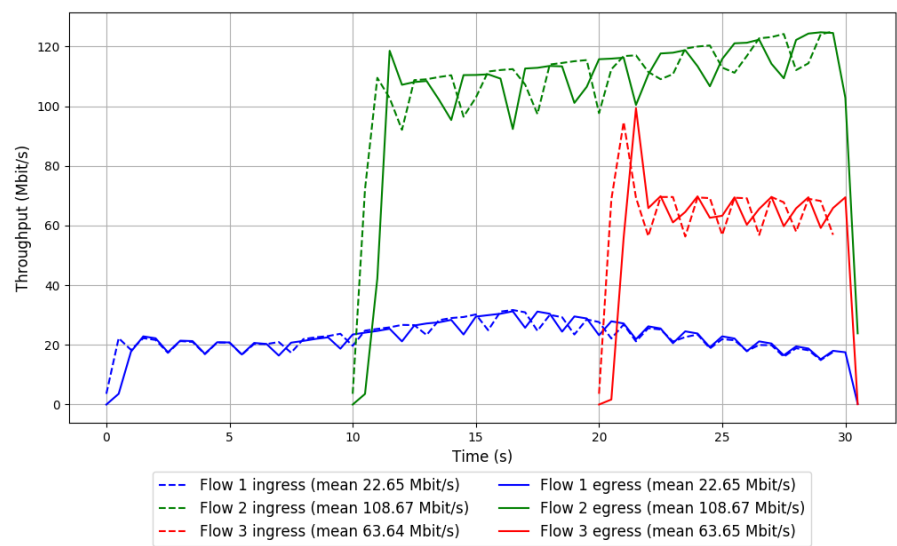
-- Flow 3:

Average throughput: 63.65 Mbit/s

95th percentile per-packet one-way delay: 54.627 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-07 07:40:56

End at: 2018-06-07 07:41:26

Local clock offset: -0.225 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-06-07 11:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 164.66 Mbit/s

95th percentile per-packet one-way delay: 54.476 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 102.40 Mbit/s

95th percentile per-packet one-way delay: 54.406 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 54.495 ms

Loss rate: 0.00%

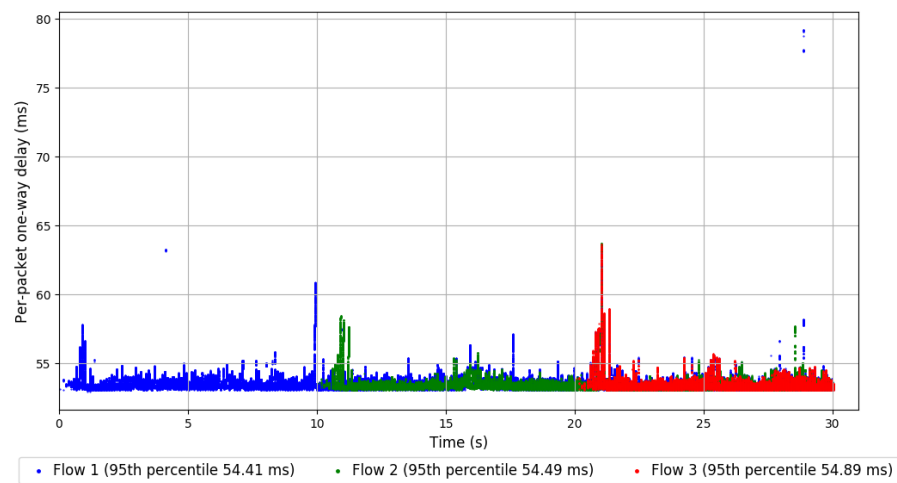
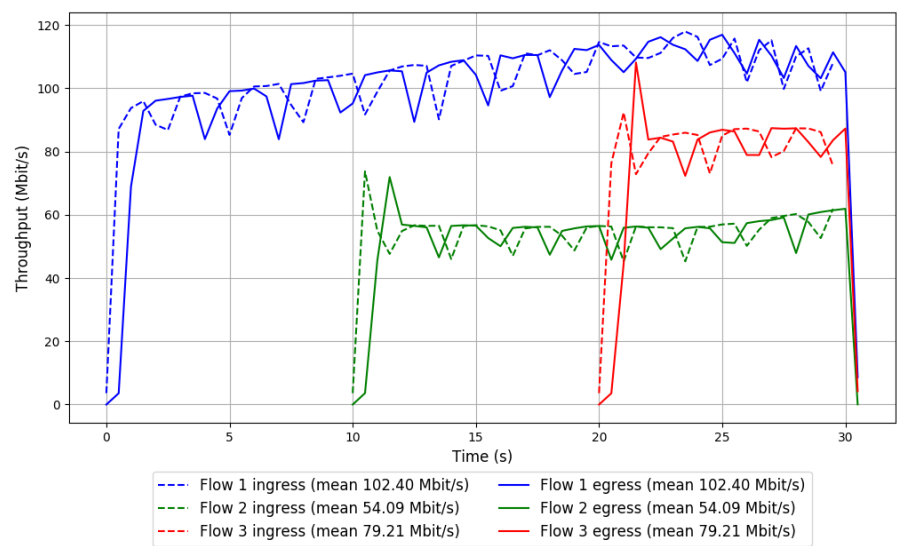
-- Flow 3:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 54.893 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

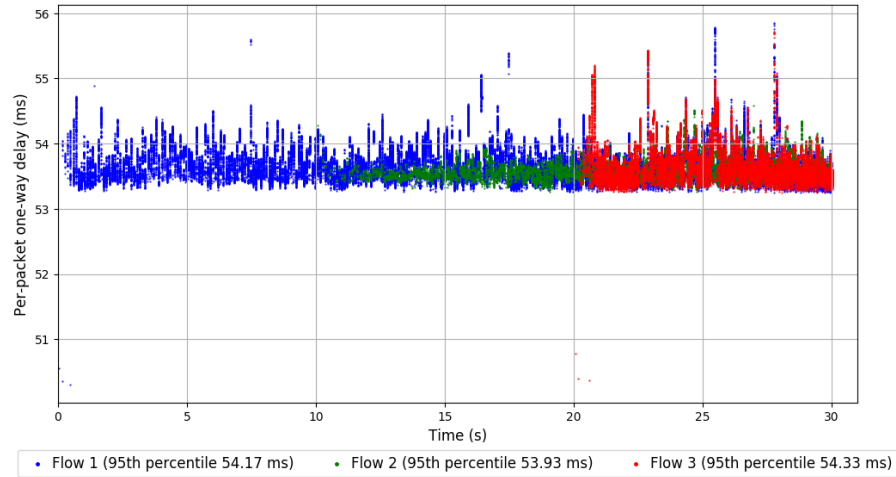
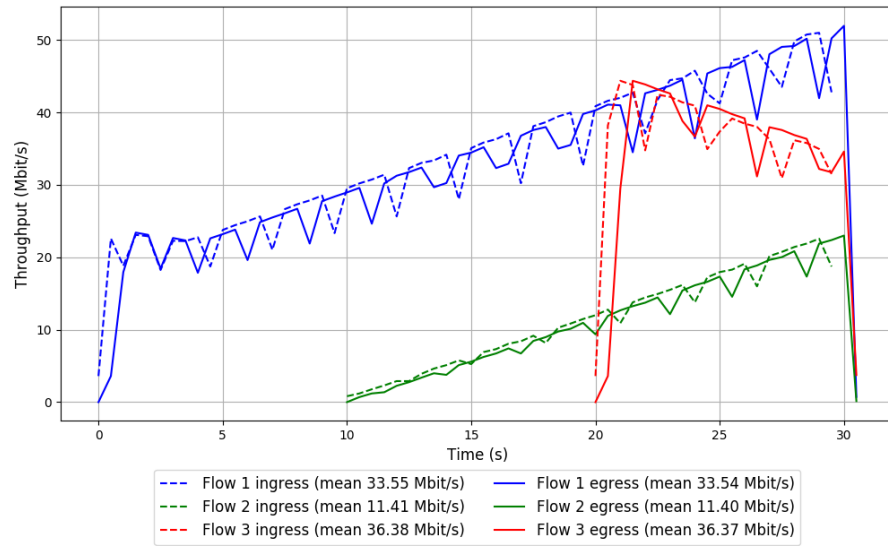


Run 8: Statistics of TCP Vegas

Start at: 2018-06-07 08:03:57
End at: 2018-06-07 08:04:27
Local clock offset: -0.225 ms
Remote clock offset: -0.043 ms

Below is generated by plot.py at 2018-06-07 11:00:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.22 Mbit/s
95th percentile per-packet one-way delay: 54.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 33.54 Mbit/s
95th percentile per-packet one-way delay: 54.171 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 11.40 Mbit/s
95th percentile per-packet one-way delay: 53.932 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 36.37 Mbit/s
95th percentile per-packet one-way delay: 54.325 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-07 08:26:33

End at: 2018-06-07 08:27:03

Local clock offset: 0.289 ms

Remote clock offset: 0.276 ms

Below is generated by plot.py at 2018-06-07 11:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 116.71 Mbit/s

95th percentile per-packet one-way delay: 54.576 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 72.62 Mbit/s

95th percentile per-packet one-way delay: 54.576 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.71 Mbit/s

95th percentile per-packet one-way delay: 54.732 ms

Loss rate: 0.00%

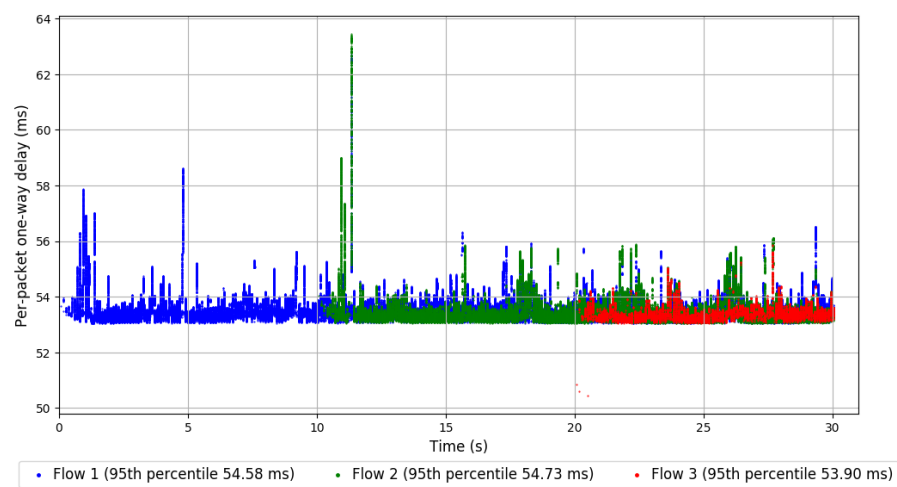
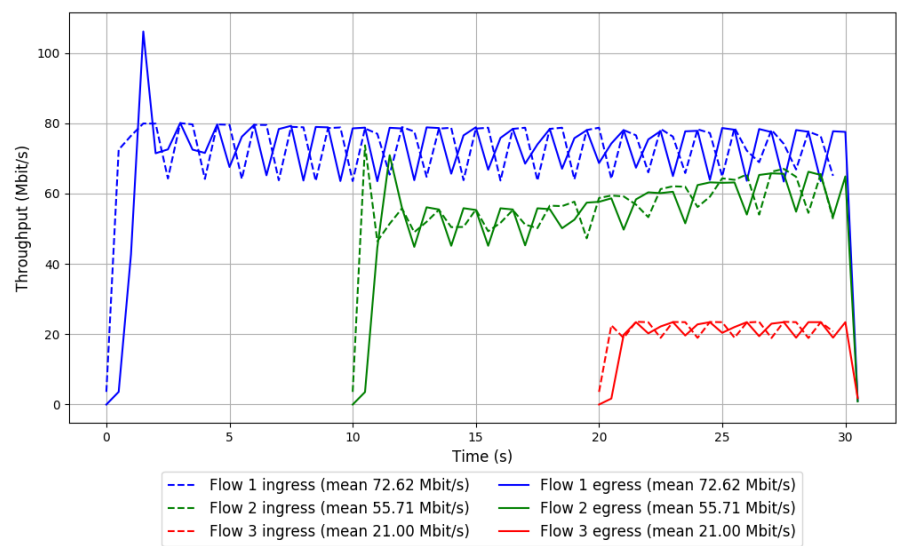
-- Flow 3:

Average throughput: 21.00 Mbit/s

95th percentile per-packet one-way delay: 53.899 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-07 08:49:49

End at: 2018-06-07 08:50:19

Local clock offset: -0.085 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-06-07 11:00:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 76.17 Mbit/s

95th percentile per-packet one-way delay: 54.111 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.82 Mbit/s

95th percentile per-packet one-way delay: 54.086 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.18 Mbit/s

95th percentile per-packet one-way delay: 54.424 ms

Loss rate: 0.00%

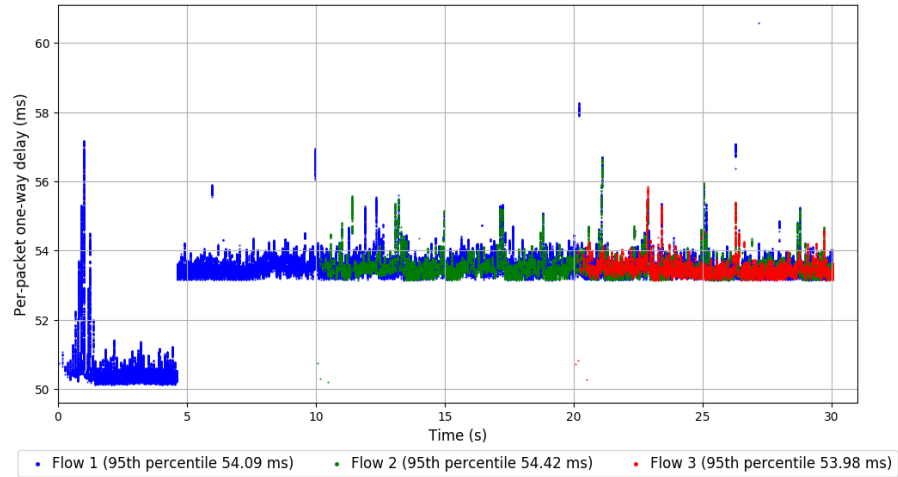
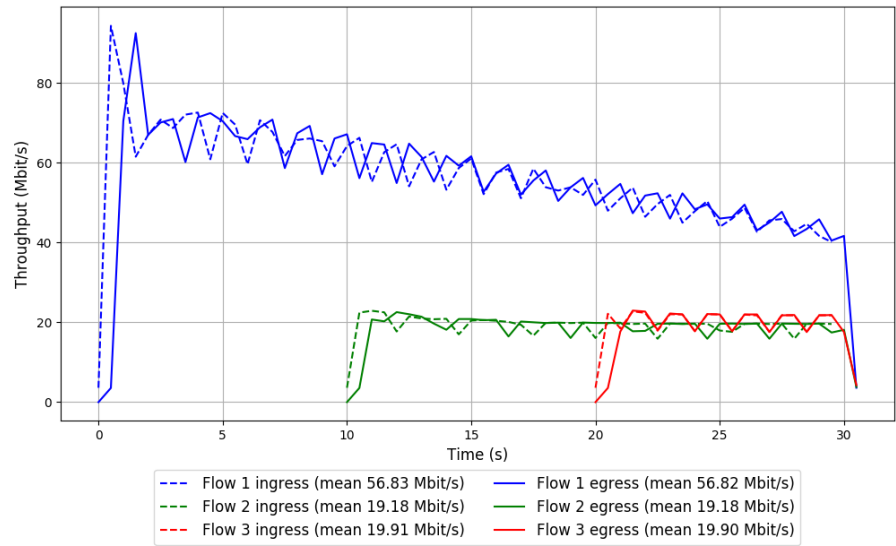
-- Flow 3:

Average throughput: 19.90 Mbit/s

95th percentile per-packet one-way delay: 53.982 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

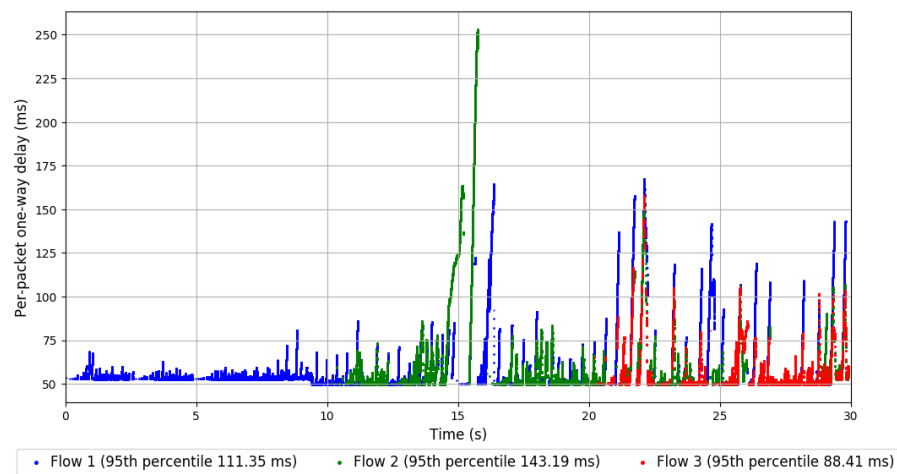
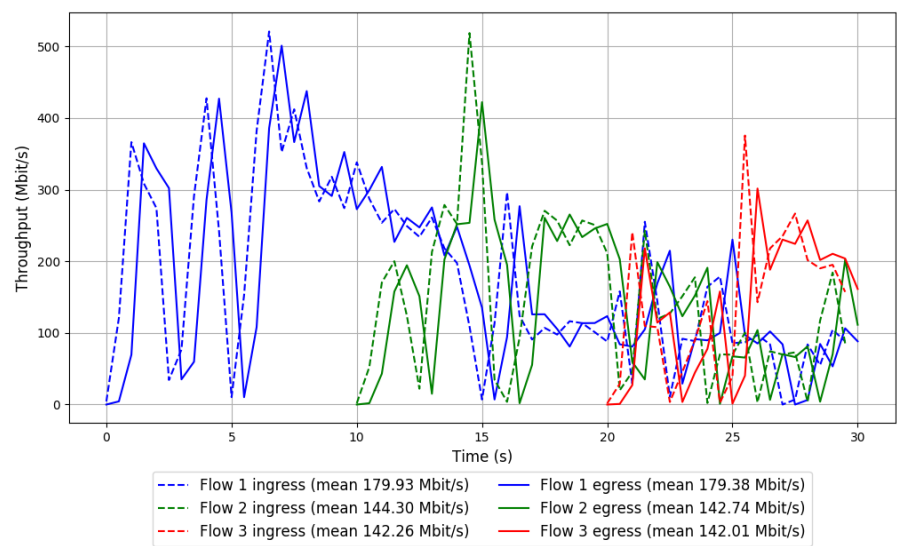


Run 1: Statistics of Verus

Start at: 2018-06-07 05:24:48
End at: 2018-06-07 05:25:18
Local clock offset: 0.259 ms
Remote clock offset: -0.519 ms

Below is generated by plot.py at 2018-06-07 11:01:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.42 Mbit/s
95th percentile per-packet one-way delay: 119.373 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 179.38 Mbit/s
95th percentile per-packet one-way delay: 111.348 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 142.74 Mbit/s
95th percentile per-packet one-way delay: 143.195 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 142.01 Mbit/s
95th percentile per-packet one-way delay: 88.412 ms
Loss rate: 0.12%

Run 1: Report of Verus — Data Link

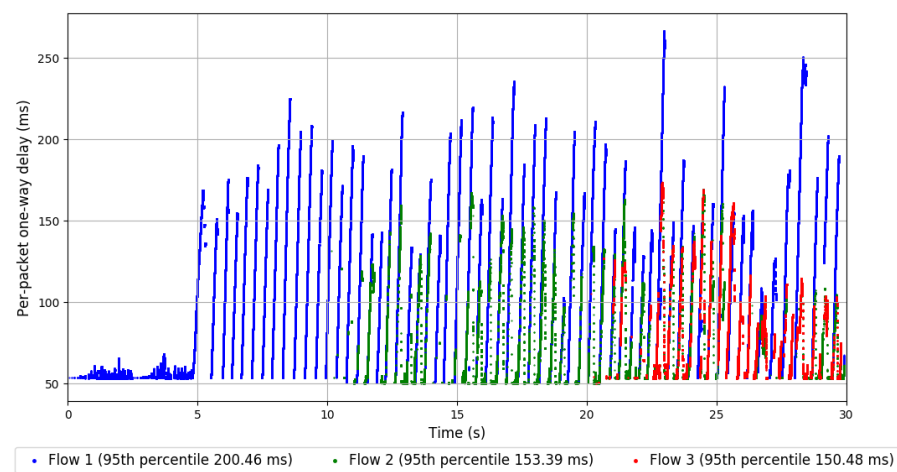
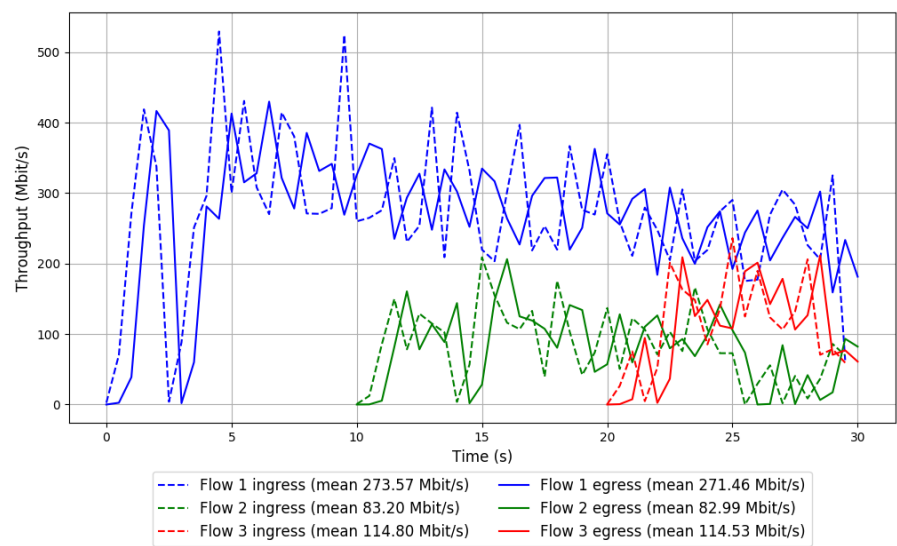


Run 2: Statistics of Verus

Start at: 2018-06-07 05:47:37
End at: 2018-06-07 05:48:07
Local clock offset: 0.132 ms
Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-06-07 11:02:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.38 Mbit/s
95th percentile per-packet one-way delay: 194.133 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 271.46 Mbit/s
95th percentile per-packet one-way delay: 200.463 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 82.99 Mbit/s
95th percentile per-packet one-way delay: 153.388 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 114.53 Mbit/s
95th percentile per-packet one-way delay: 150.476 ms
Loss rate: 0.55%

Run 2: Report of Verus — Data Link

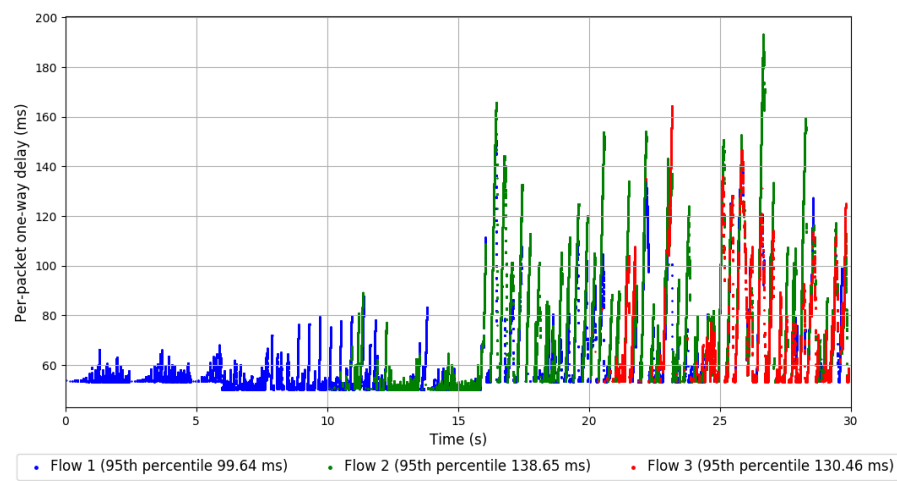
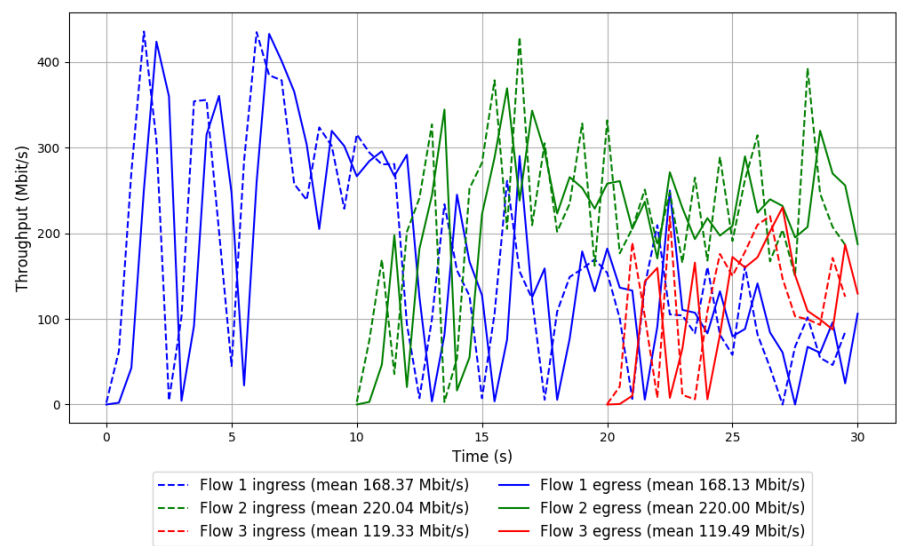


Run 3: Statistics of Verus

Start at: 2018-06-07 06:10:42
End at: 2018-06-07 06:11:12
Local clock offset: 0.121 ms
Remote clock offset: -0.446 ms

Below is generated by plot.py at 2018-06-07 11:02:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 351.81 Mbit/s
95th percentile per-packet one-way delay: 125.446 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 168.13 Mbit/s
95th percentile per-packet one-way delay: 99.635 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 220.00 Mbit/s
95th percentile per-packet one-way delay: 138.648 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 119.49 Mbit/s
95th percentile per-packet one-way delay: 130.458 ms
Loss rate: 0.05%

Run 3: Report of Verus — Data Link

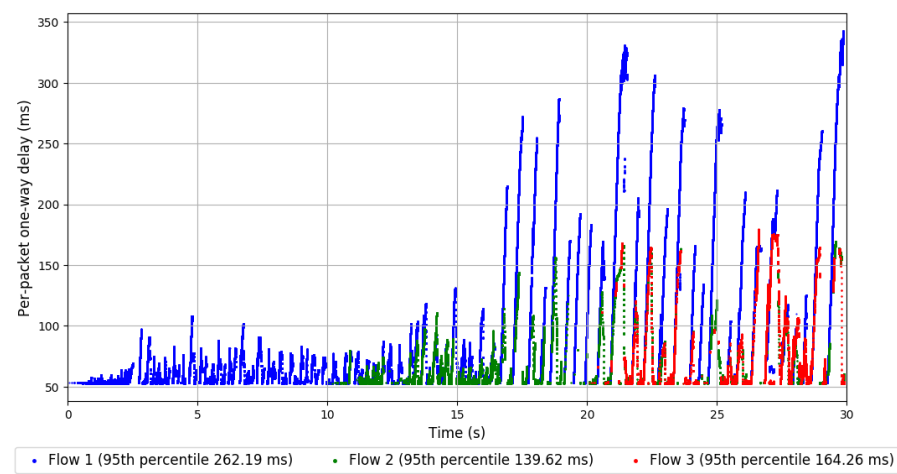
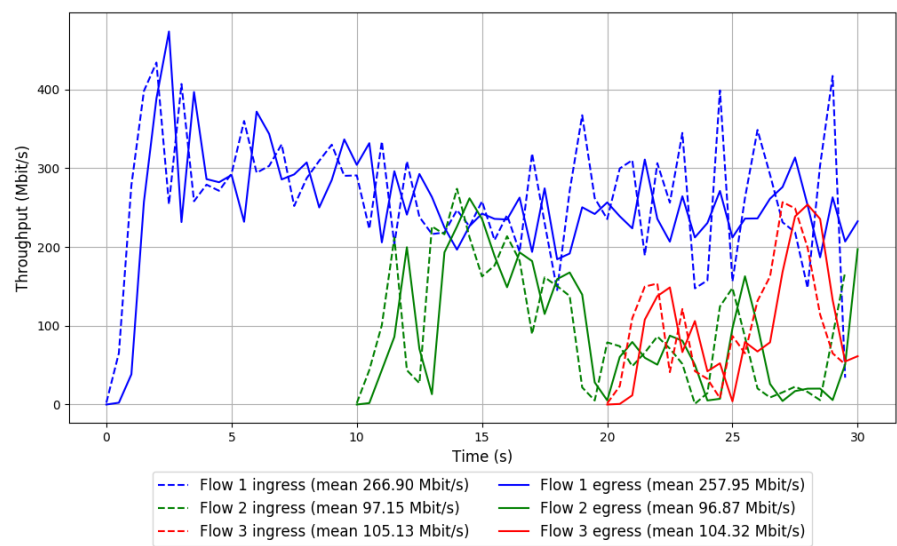


Run 4: Statistics of Verus

Start at: 2018-06-07 06:33:13
End at: 2018-06-07 06:33:43
Local clock offset: 0.257 ms
Remote clock offset: -0.781 ms

Below is generated by plot.py at 2018-06-07 11:03:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 356.35 Mbit/s
95th percentile per-packet one-way delay: 246.075 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 257.95 Mbit/s
95th percentile per-packet one-way delay: 262.193 ms
Loss rate: 2.42%
-- Flow 2:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 139.623 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 104.32 Mbit/s
95th percentile per-packet one-way delay: 164.257 ms
Loss rate: 0.78%

Run 4: Report of Verus — Data Link

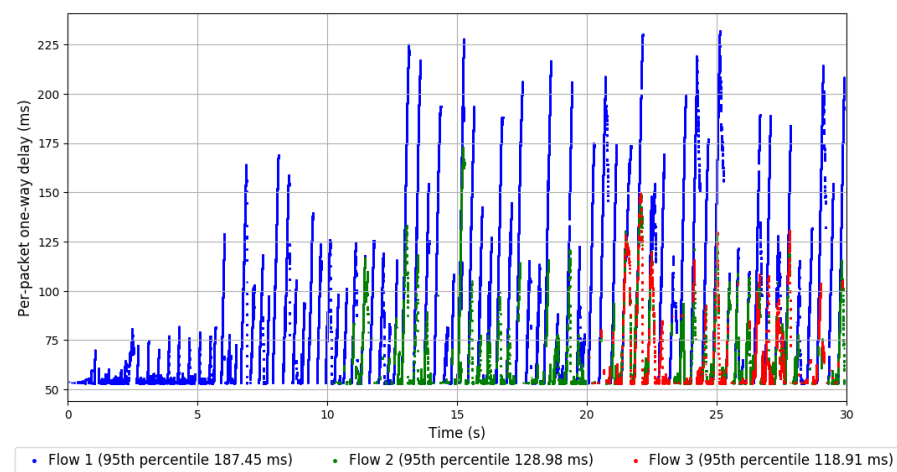
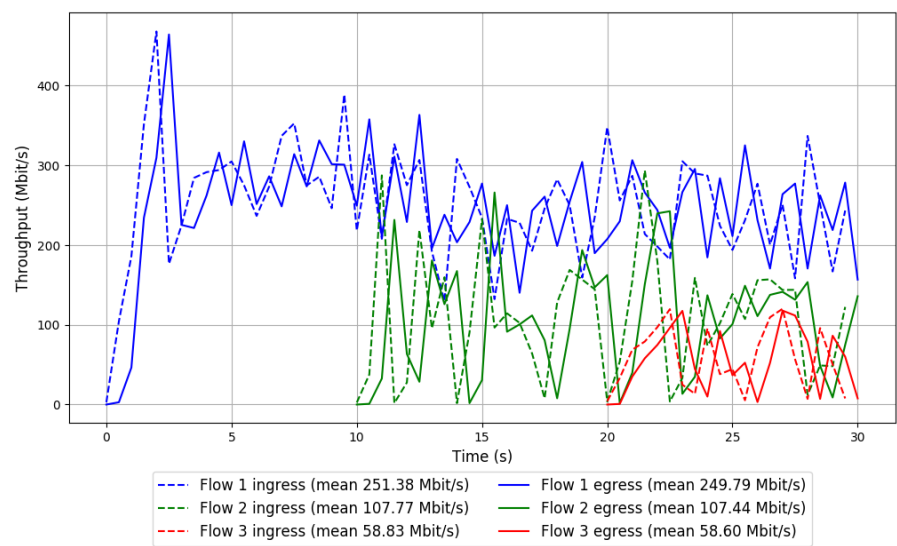


Run 5: Statistics of Verus

Start at: 2018-06-07 06:56:11
End at: 2018-06-07 06:56:41
Local clock offset: 0.112 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-06-07 11:03:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 340.24 Mbit/s
95th percentile per-packet one-way delay: 179.895 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 249.79 Mbit/s
95th percentile per-packet one-way delay: 187.449 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 107.44 Mbit/s
95th percentile per-packet one-way delay: 128.979 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 58.60 Mbit/s
95th percentile per-packet one-way delay: 118.908 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-07 07:18:48

End at: 2018-06-07 07:19:18

Local clock offset: -0.139 ms

Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-07 11:04:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 366.85 Mbit/s

95th percentile per-packet one-way delay: 150.363 ms

Loss rate: 0.80%

-- Flow 1:

Average throughput: 201.65 Mbit/s

95th percentile per-packet one-way delay: 118.220 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 176.911 ms

Loss rate: 0.34%

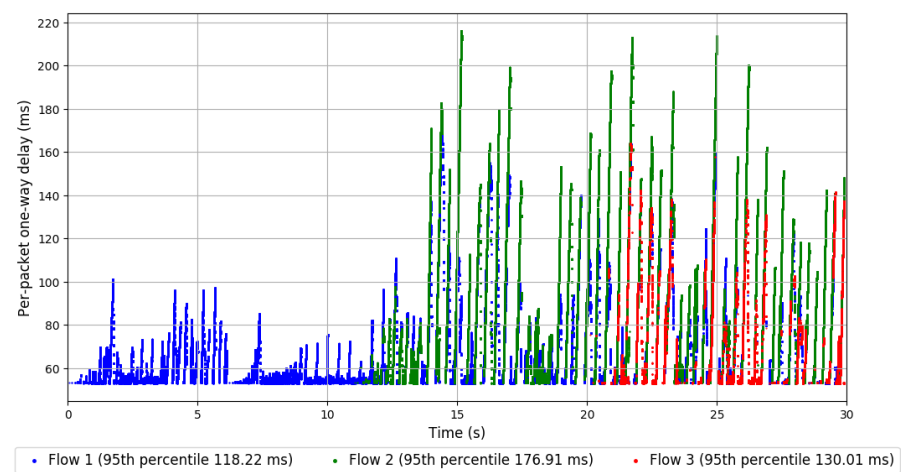
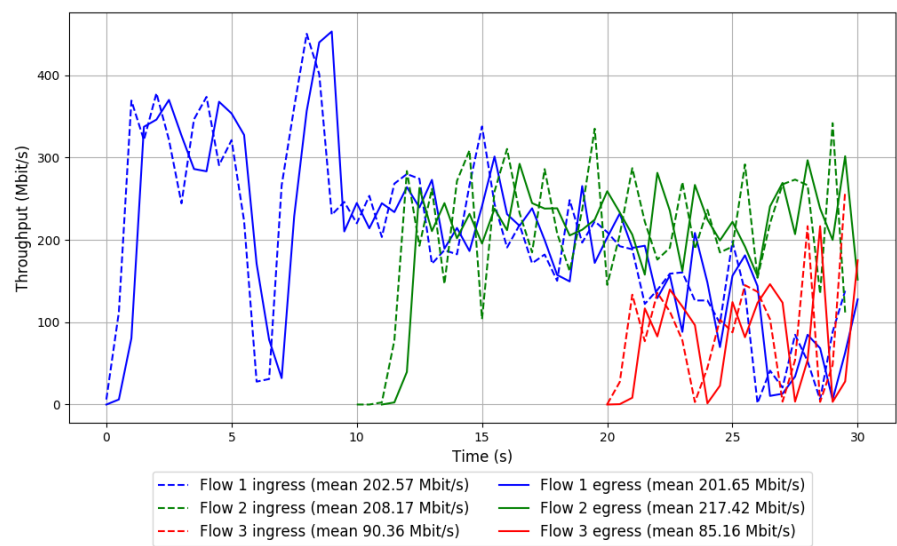
-- Flow 3:

Average throughput: 85.16 Mbit/s

95th percentile per-packet one-way delay: 130.008 ms

Loss rate: 5.95%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-07 07:42:13

End at: 2018-06-07 07:42:43

Local clock offset: -0.14 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-07 11:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 353.15 Mbit/s

95th percentile per-packet one-way delay: 186.825 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 249.26 Mbit/s

95th percentile per-packet one-way delay: 194.776 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 114.77 Mbit/s

95th percentile per-packet one-way delay: 126.955 ms

Loss rate: 0.43%

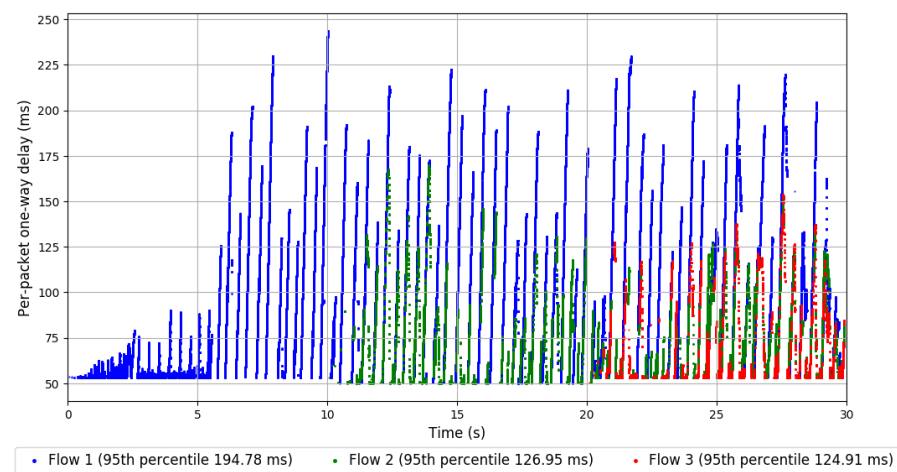
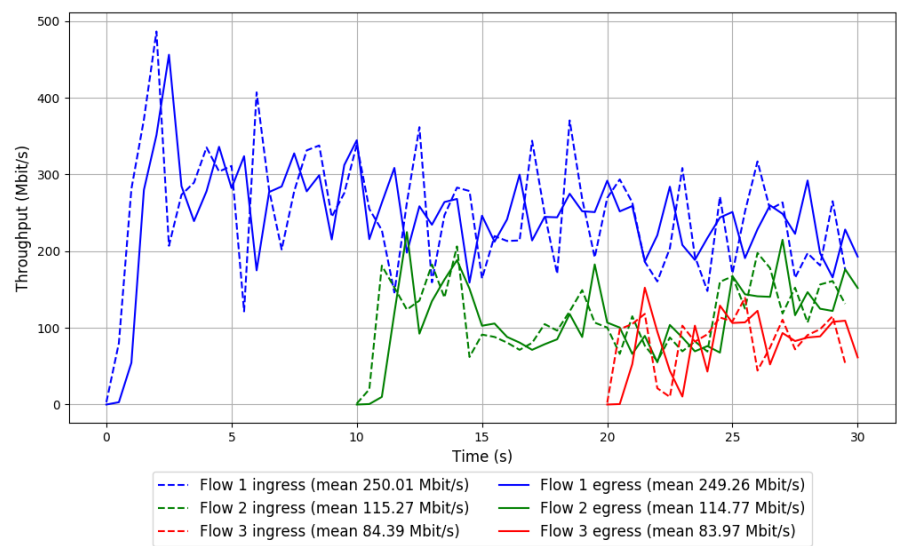
-- Flow 3:

Average throughput: 83.97 Mbit/s

95th percentile per-packet one-way delay: 124.913 ms

Loss rate: 0.16%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-07 08:05:08

End at: 2018-06-07 08:05:38

Local clock offset: -0.312 ms

Remote clock offset: 0.374 ms

Below is generated by plot.py at 2018-06-07 11:06:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 341.73 Mbit/s

95th percentile per-packet one-way delay: 152.752 ms

Loss rate: 2.57%

-- Flow 1:

Average throughput: 175.30 Mbit/s

95th percentile per-packet one-way delay: 85.230 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 197.81 Mbit/s

95th percentile per-packet one-way delay: 122.868 ms

Loss rate: 2.75%

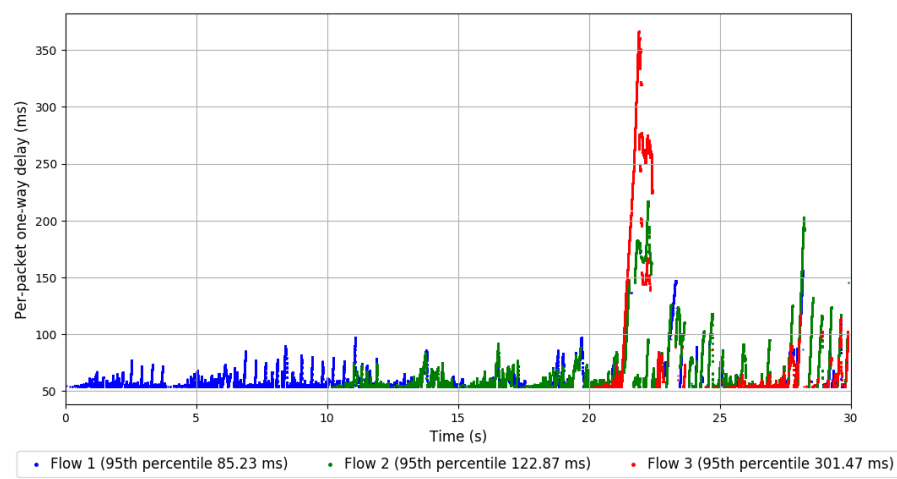
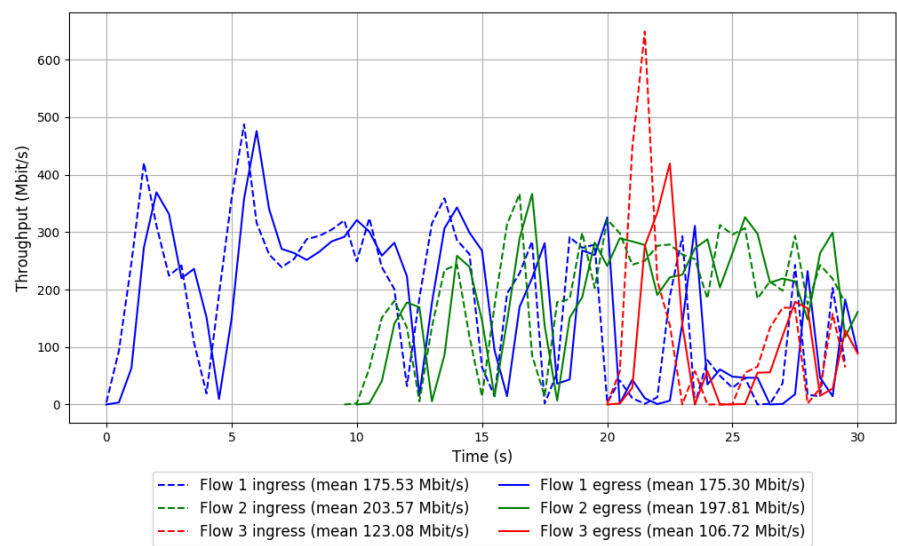
-- Flow 3:

Average throughput: 106.72 Mbit/s

95th percentile per-packet one-way delay: 301.468 ms

Loss rate: 13.08%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-07 08:27:47

End at: 2018-06-07 08:28:17

Local clock offset: 0.287 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-06-07 11:07:48

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.65 Mbit/s

95th percentile per-packet one-way delay: 133.307 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 231.17 Mbit/s

95th percentile per-packet one-way delay: 135.287 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 166.02 Mbit/s

95th percentile per-packet one-way delay: 134.452 ms

Loss rate: 0.19%

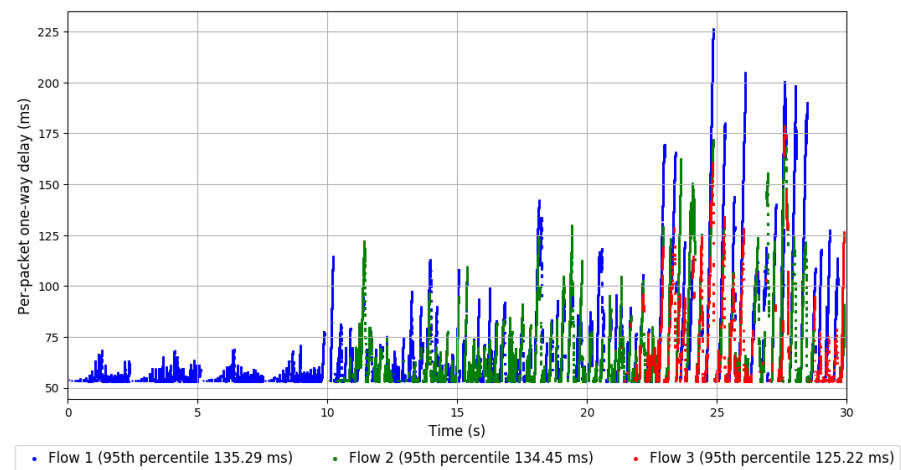
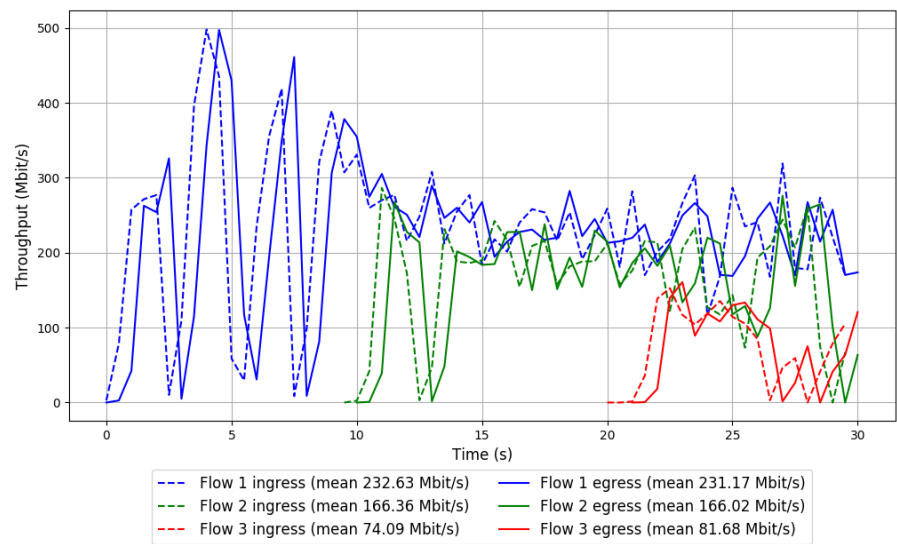
-- Flow 3:

Average throughput: 81.68 Mbit/s

95th percentile per-packet one-way delay: 125.217 ms

Loss rate: 0.41%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-07 08:51:01

End at: 2018-06-07 08:51:31

Local clock offset: -1.729 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-06-07 11:08:09

Datalink statistics

-- Total of 3 flows:

Average throughput: 345.33 Mbit/s

95th percentile per-packet one-way delay: 115.549 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 171.28 Mbit/s

95th percentile per-packet one-way delay: 109.618 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 224.64 Mbit/s

95th percentile per-packet one-way delay: 117.892 ms

Loss rate: 0.00%

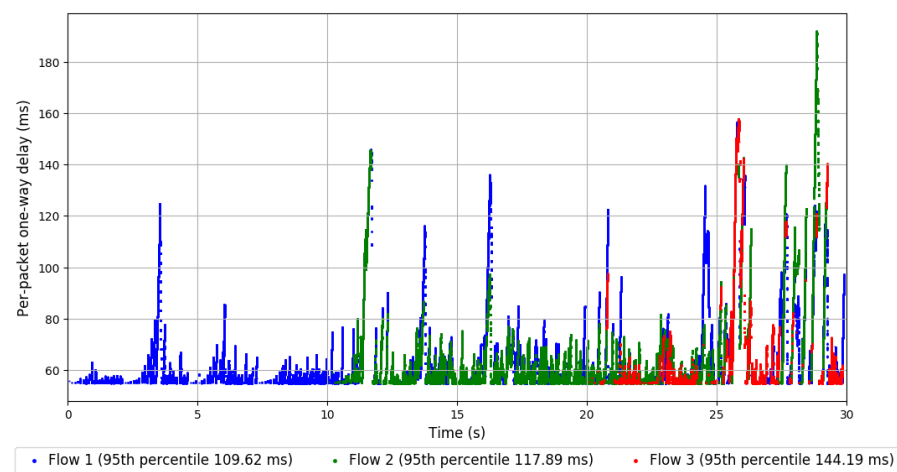
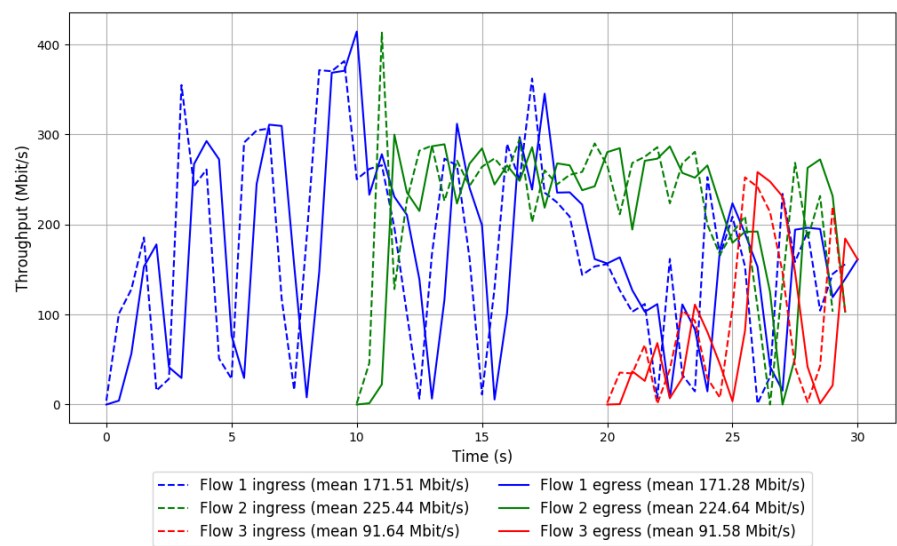
-- Flow 3:

Average throughput: 91.58 Mbit/s

95th percentile per-packet one-way delay: 144.189 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

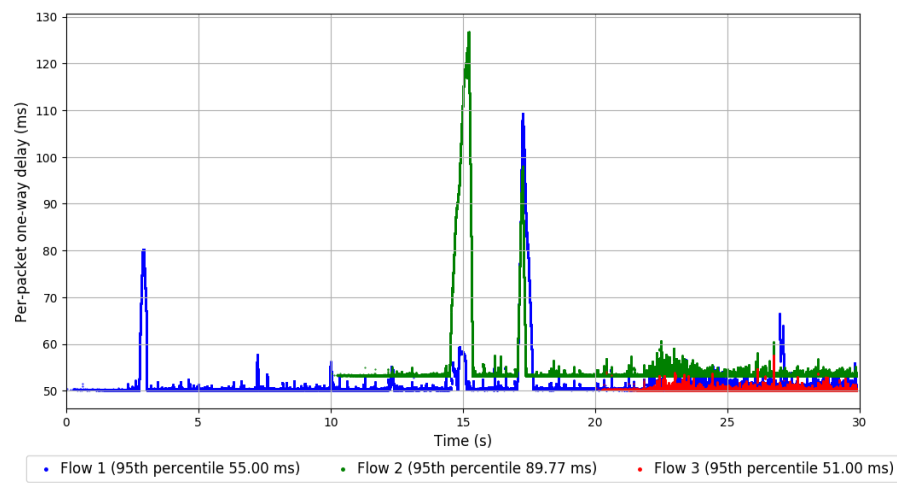
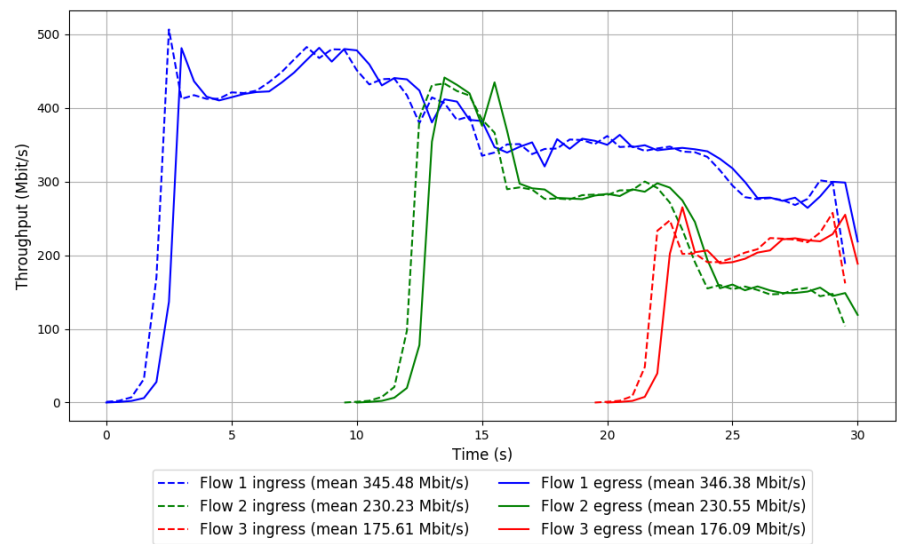


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-07 05:06:16
End at: 2018-06-07 05:06:46
Local clock offset: 0.148 ms
Remote clock offset: -0.424 ms

Below is generated by plot.py at 2018-06-07 11:12:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 557.93 Mbit/s
95th percentile per-packet one-way delay: 58.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 346.38 Mbit/s
95th percentile per-packet one-way delay: 55.001 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 230.55 Mbit/s
95th percentile per-packet one-way delay: 89.772 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 176.09 Mbit/s
95th percentile per-packet one-way delay: 50.997 ms
Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link

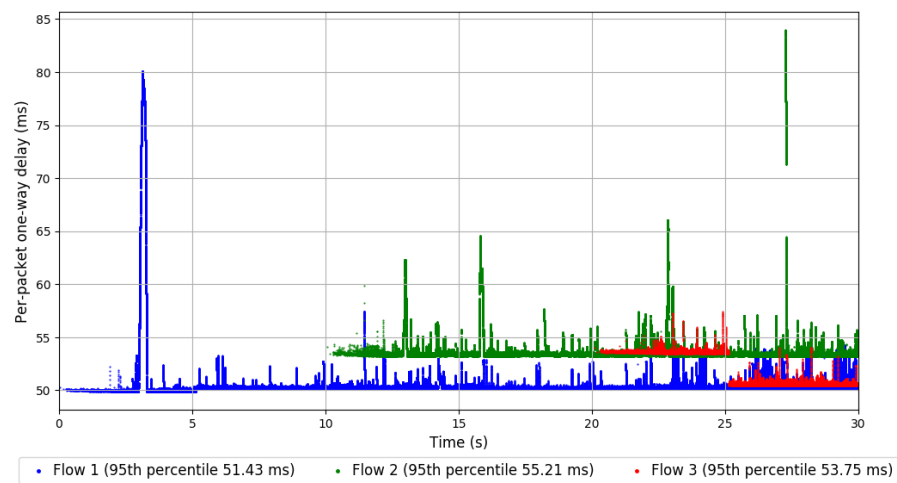
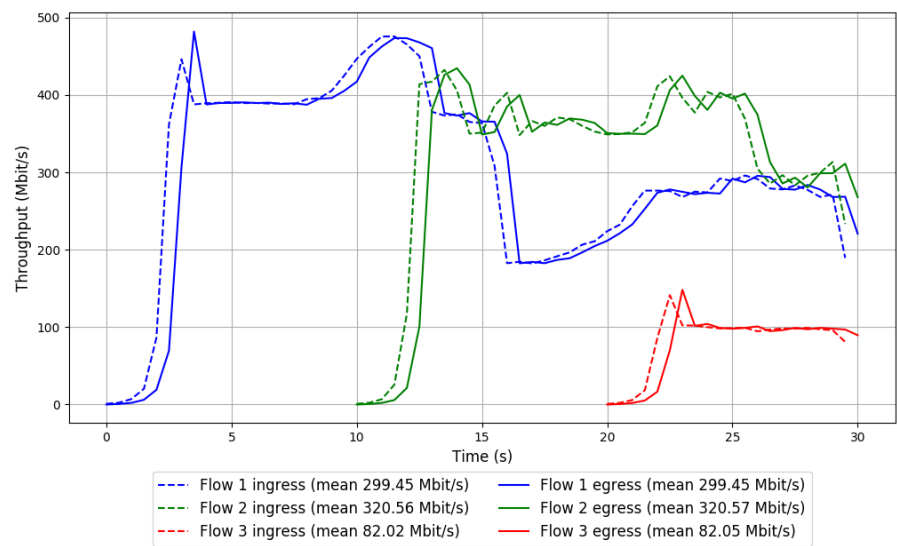


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-07 05:29:23
End at: 2018-06-07 05:29:53
Local clock offset: 0.115 ms
Remote clock offset: -0.198 ms

Below is generated by plot.py at 2018-06-07 11:12:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 539.61 Mbit/s
95th percentile per-packet one-way delay: 53.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 299.45 Mbit/s
95th percentile per-packet one-way delay: 51.426 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 320.57 Mbit/s
95th percentile per-packet one-way delay: 55.211 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 53.752 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

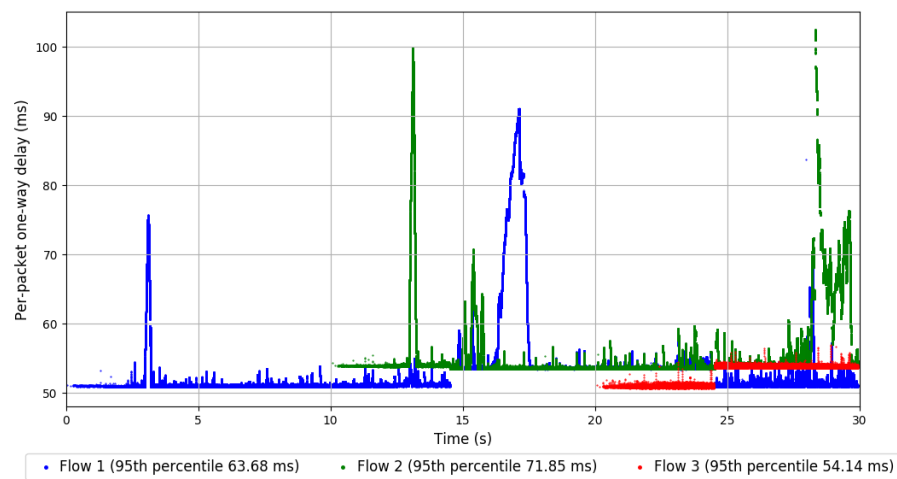
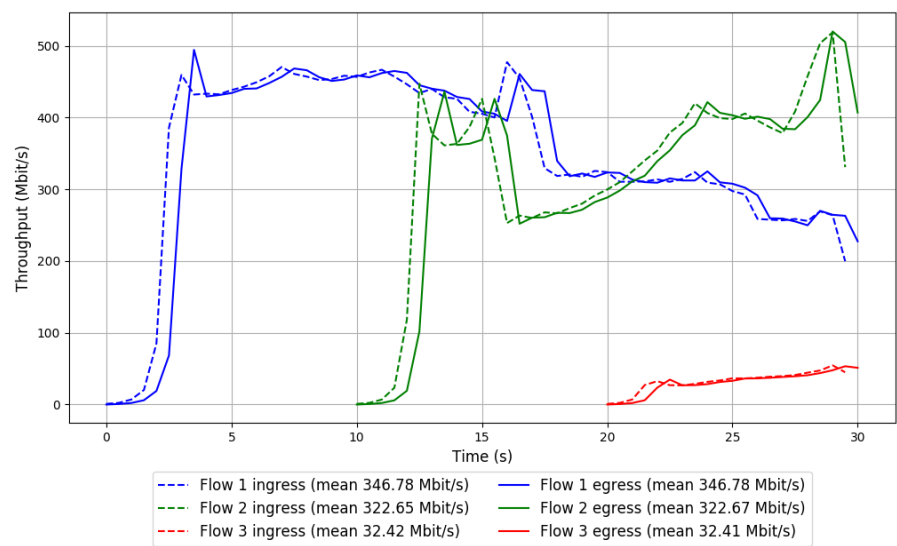


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-07 05:52:03
End at: 2018-06-07 05:52:33
Local clock offset: -0.371 ms
Remote clock offset: -0.492 ms

Below is generated by plot.py at 2018-06-07 11:13:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 572.00 Mbit/s
95th percentile per-packet one-way delay: 69.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 346.78 Mbit/s
95th percentile per-packet one-way delay: 63.681 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 322.67 Mbit/s
95th percentile per-packet one-way delay: 71.850 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 32.41 Mbit/s
95th percentile per-packet one-way delay: 54.137 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

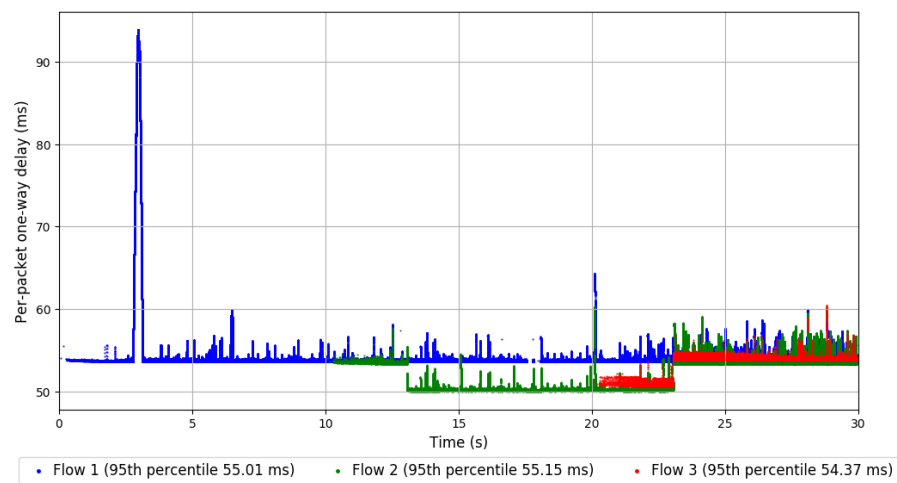
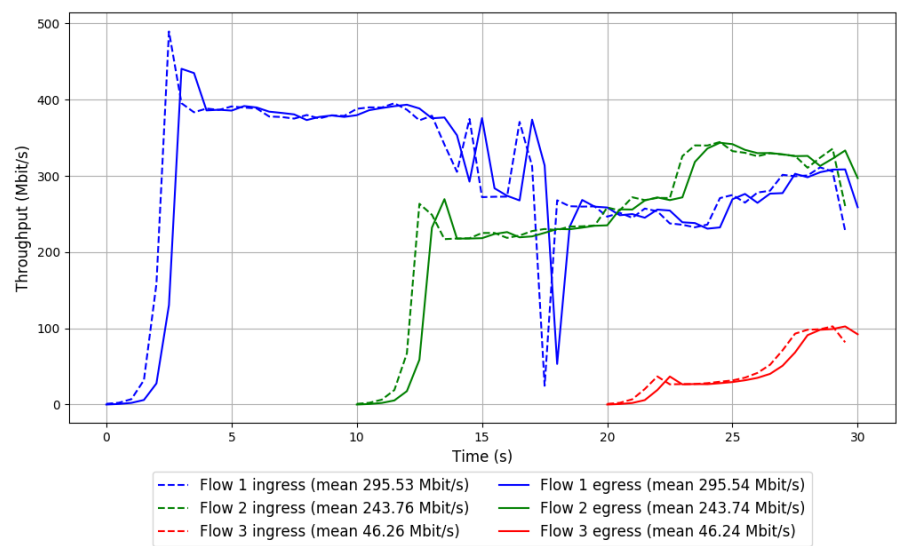


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-07 06:15:05
End at: 2018-06-07 06:15:35
Local clock offset: -0.155 ms
Remote clock offset: -0.507 ms

Below is generated by plot.py at 2018-06-07 11:13:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 472.85 Mbit/s
95th percentile per-packet one-way delay: 55.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 295.54 Mbit/s
95th percentile per-packet one-way delay: 55.009 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 243.74 Mbit/s
95th percentile per-packet one-way delay: 55.147 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 46.24 Mbit/s
95th percentile per-packet one-way delay: 54.365 ms
Loss rate: 0.02%

Run 4: Report of PCC-Vivace — Data Link

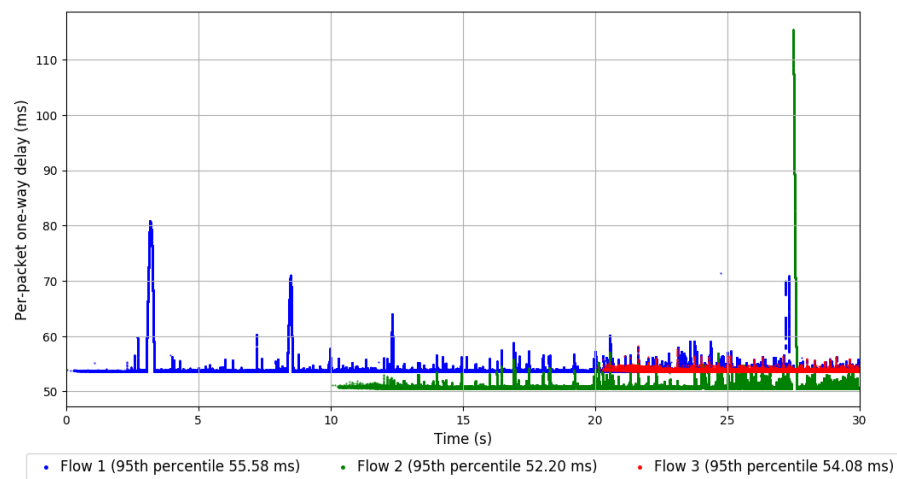
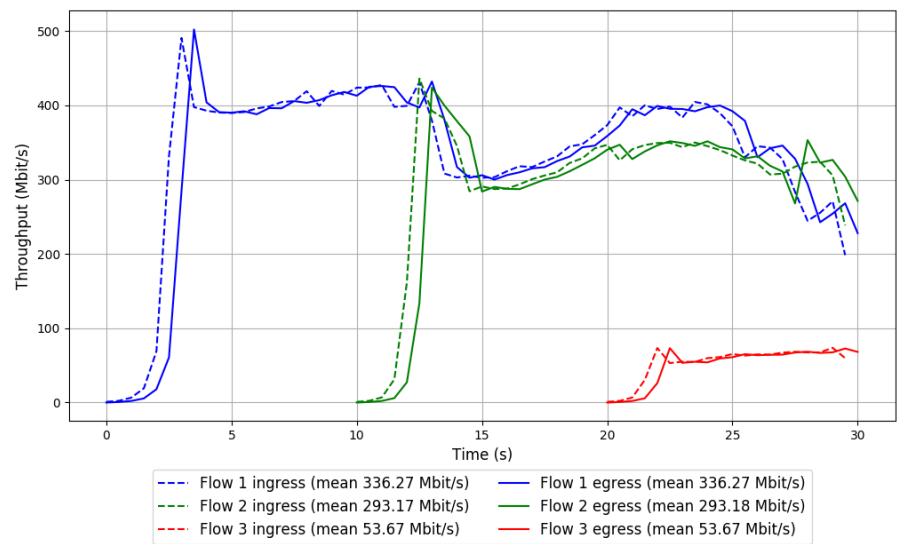


Run 5: Statistics of PCC-Vivace

Start at: 2018-06-07 06:37:40
End at: 2018-06-07 06:38:10
Local clock offset: -0.146 ms
Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-07 11:15:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 549.01 Mbit/s
95th percentile per-packet one-way delay: 54.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 336.27 Mbit/s
95th percentile per-packet one-way delay: 55.581 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 293.18 Mbit/s
95th percentile per-packet one-way delay: 52.198 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 53.67 Mbit/s
95th percentile per-packet one-way delay: 54.083 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link

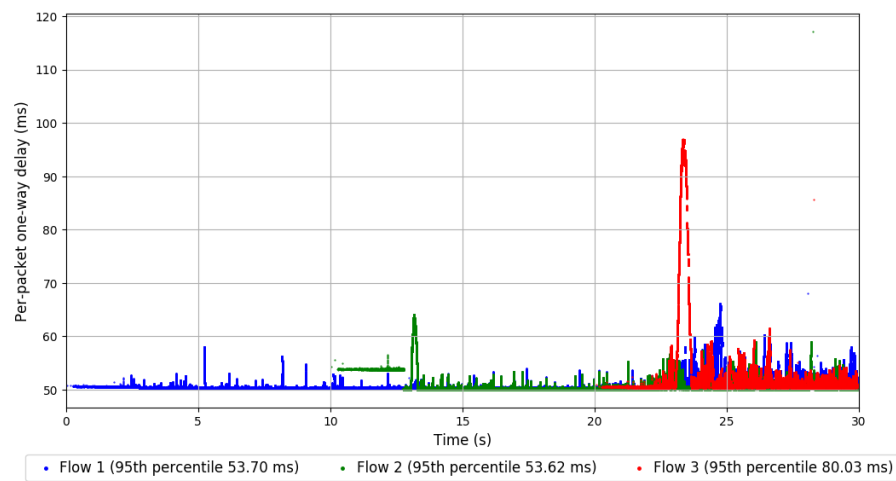
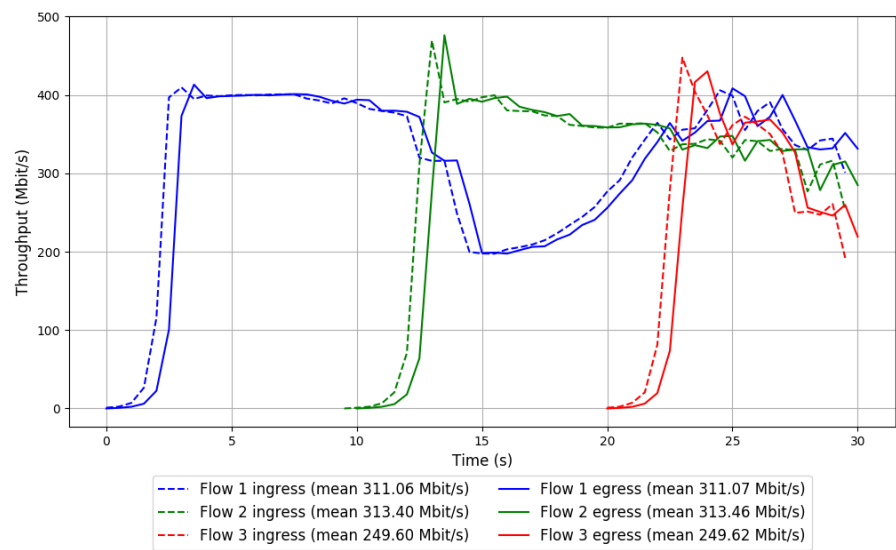


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-07 07:00:40
End at: 2018-06-07 07:01:10
Local clock offset: -0.201 ms
Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-06-07 11:15:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 602.00 Mbit/s
95th percentile per-packet one-way delay: 54.645 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 311.07 Mbit/s
95th percentile per-packet one-way delay: 53.700 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 313.46 Mbit/s
95th percentile per-packet one-way delay: 53.623 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 249.62 Mbit/s
95th percentile per-packet one-way delay: 80.030 ms
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-07 07:23:22

End at: 2018-06-07 07:23:52

Local clock offset: -0.279 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-06-07 11:16:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 572.23 Mbit/s

95th percentile per-packet one-way delay: 54.828 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 353.60 Mbit/s

95th percentile per-packet one-way delay: 54.055 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 282.92 Mbit/s

95th percentile per-packet one-way delay: 55.636 ms

Loss rate: 0.00%

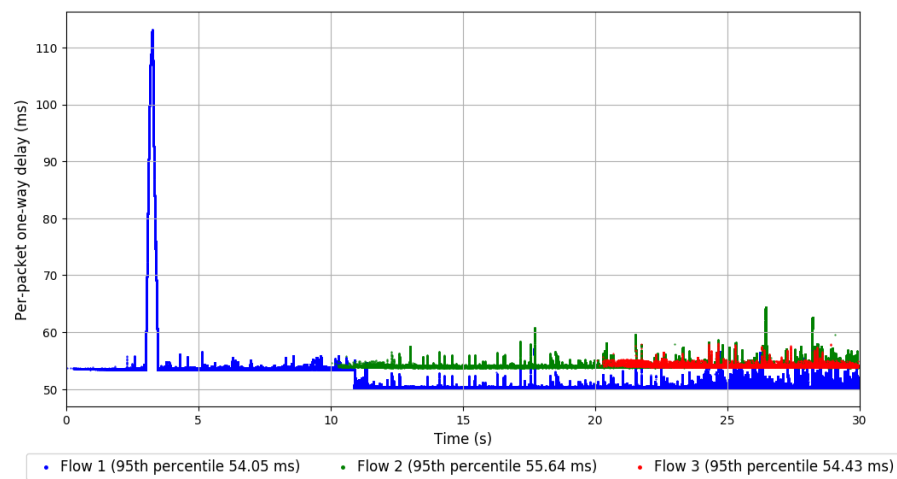
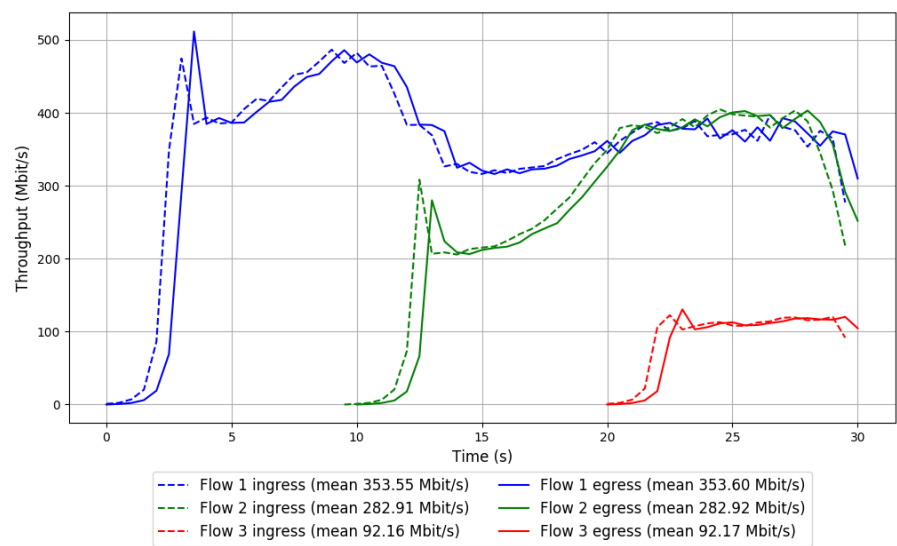
-- Flow 3:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 54.427 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

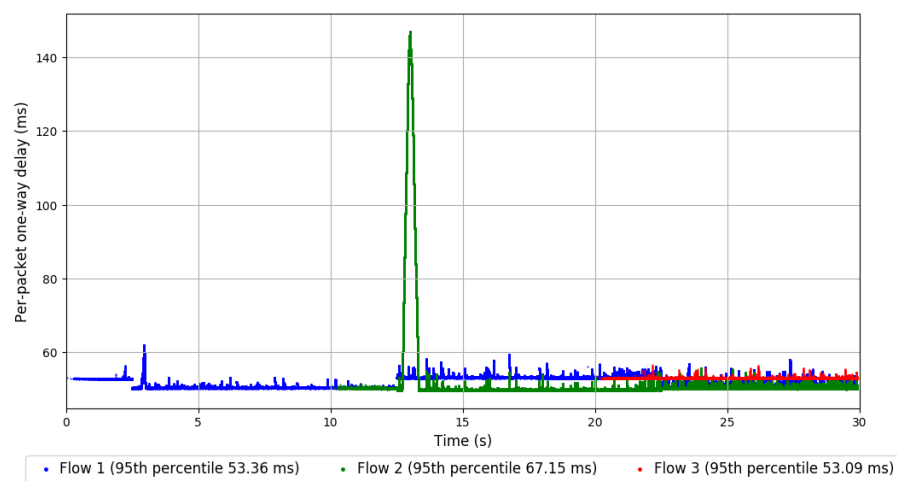
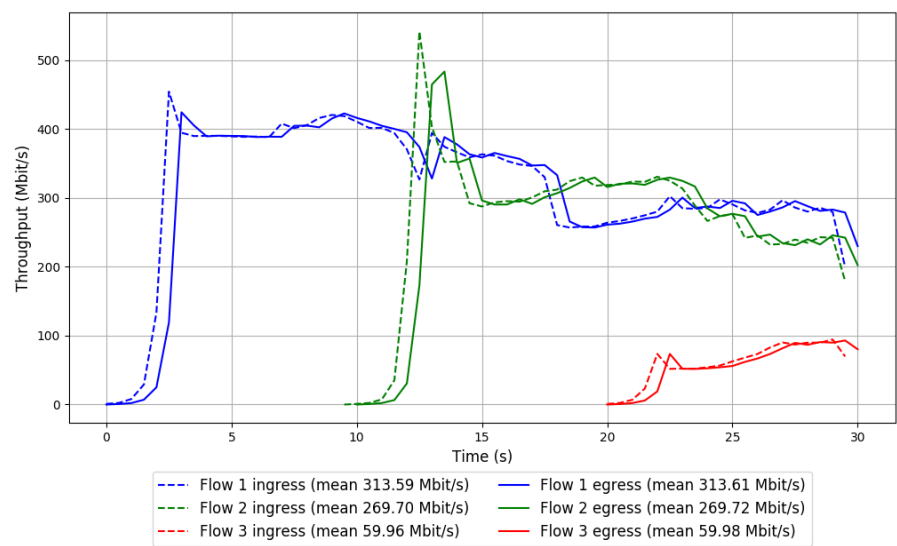


Run 8: Statistics of PCC-Vivace

Start at: 2018-06-07 07:46:51
End at: 2018-06-07 07:47:21
Local clock offset: -0.073 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-07 11:16:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 512.81 Mbit/s
95th percentile per-packet one-way delay: 53.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 313.61 Mbit/s
95th percentile per-packet one-way delay: 53.358 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 269.72 Mbit/s
95th percentile per-packet one-way delay: 67.154 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 59.98 Mbit/s
95th percentile per-packet one-way delay: 53.090 ms
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

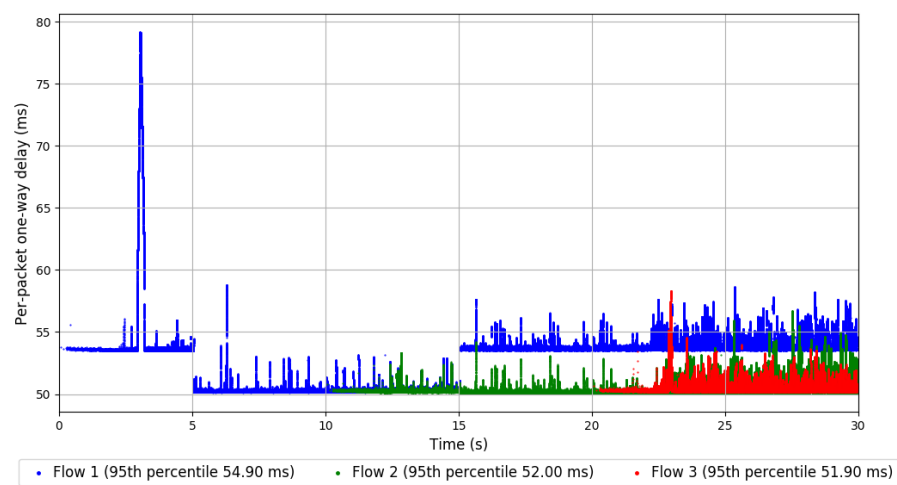
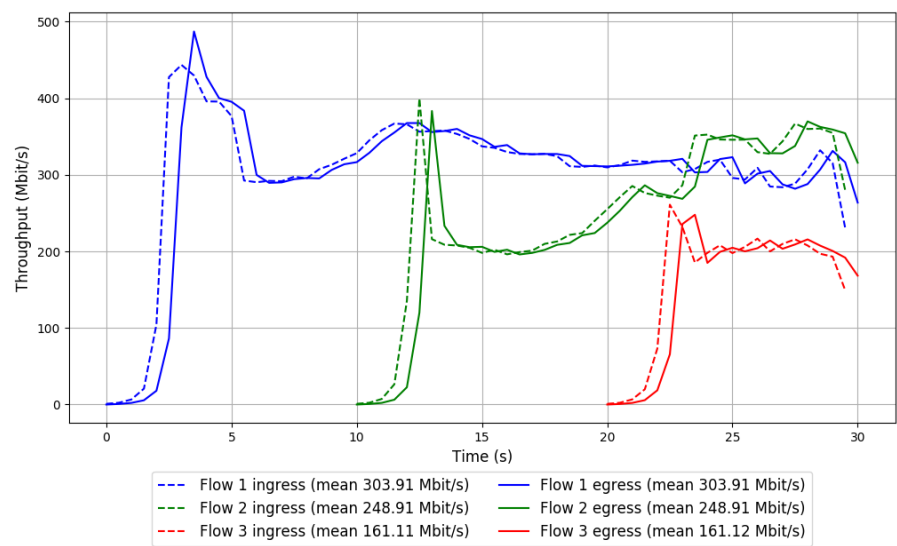


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-07 08:09:28
End at: 2018-06-07 08:09:58
Local clock offset: -0.237 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2018-06-07 11:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 522.66 Mbit/s
95th percentile per-packet one-way delay: 54.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 303.91 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 248.91 Mbit/s
95th percentile per-packet one-way delay: 52.004 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 161.12 Mbit/s
95th percentile per-packet one-way delay: 51.897 ms
Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link

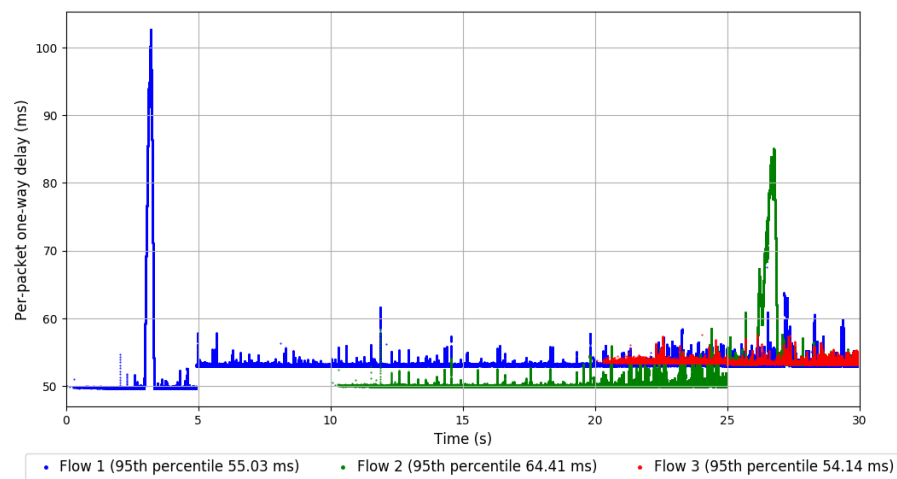
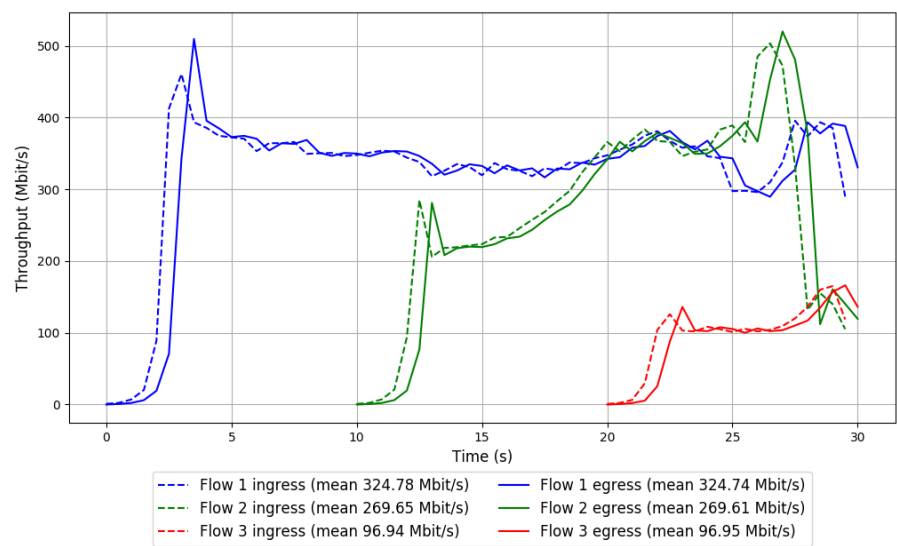


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-07 08:32:18
End at: 2018-06-07 08:32:48
Local clock offset: -0.04 ms
Remote clock offset: -0.197 ms

Below is generated by plot.py at 2018-06-07 11:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 535.92 Mbit/s
95th percentile per-packet one-way delay: 55.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 324.74 Mbit/s
95th percentile per-packet one-way delay: 55.034 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 269.61 Mbit/s
95th percentile per-packet one-way delay: 64.412 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 96.95 Mbit/s
95th percentile per-packet one-way delay: 54.136 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

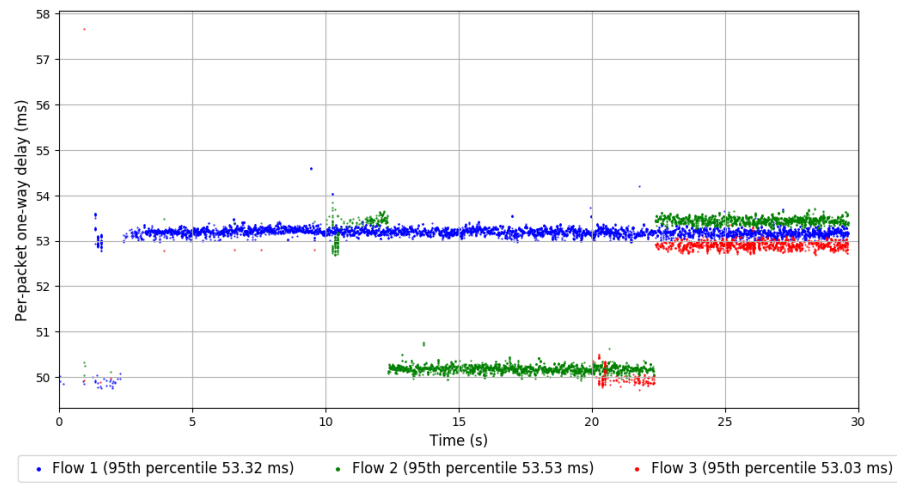
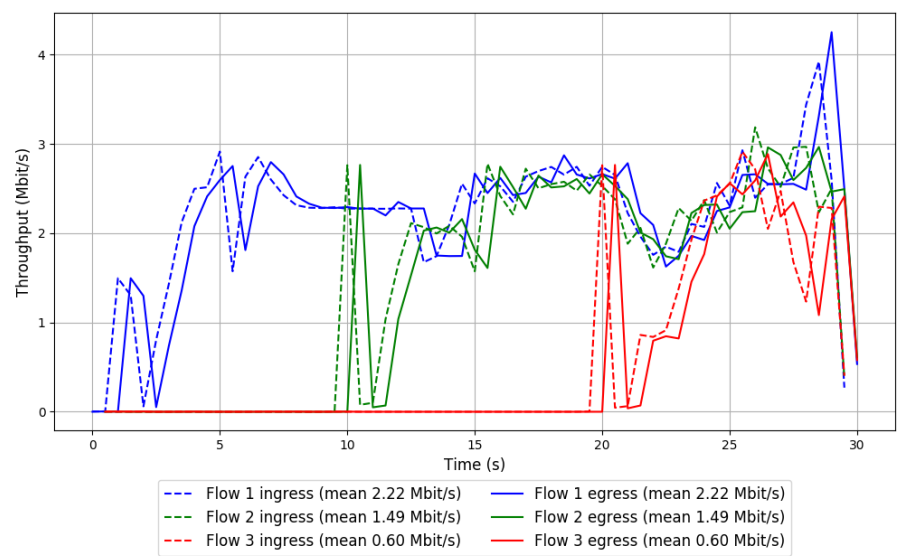


Run 1: Statistics of WebRTC media

Start at: 2018-06-07 05:17:45
End at: 2018-06-07 05:18:15
Local clock offset: 0.031 ms
Remote clock offset: -0.732 ms

Below is generated by plot.py at 2018-06-07 11:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 53.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 53.319 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 53.533 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 53.034 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-07 05:40:32

End at: 2018-06-07 05:41:02

Local clock offset: -0.009 ms

Remote clock offset: -0.75 ms

Below is generated by plot.py at 2018-06-07 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.90 Mbit/s

95th percentile per-packet one-way delay: 53.462 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 53.414 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.30 Mbit/s

95th percentile per-packet one-way delay: 53.464 ms

Loss rate: 0.00%

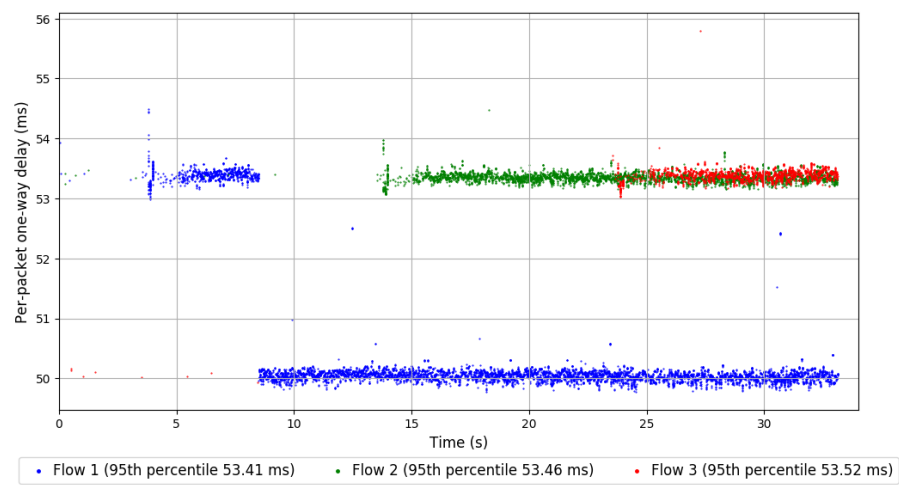
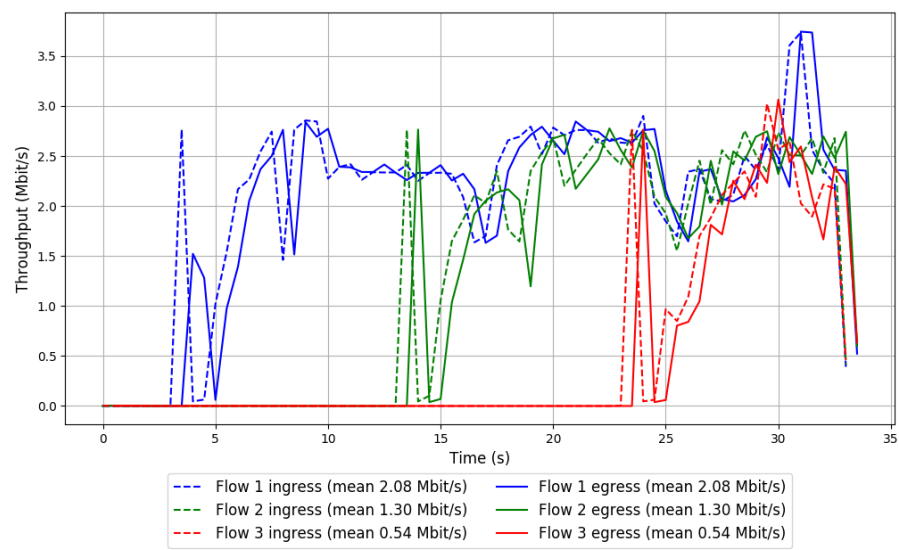
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 53.517 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

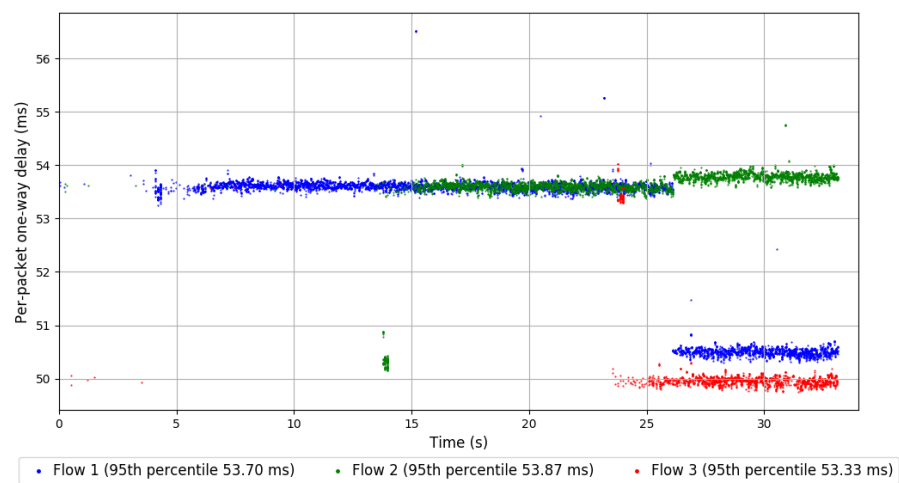
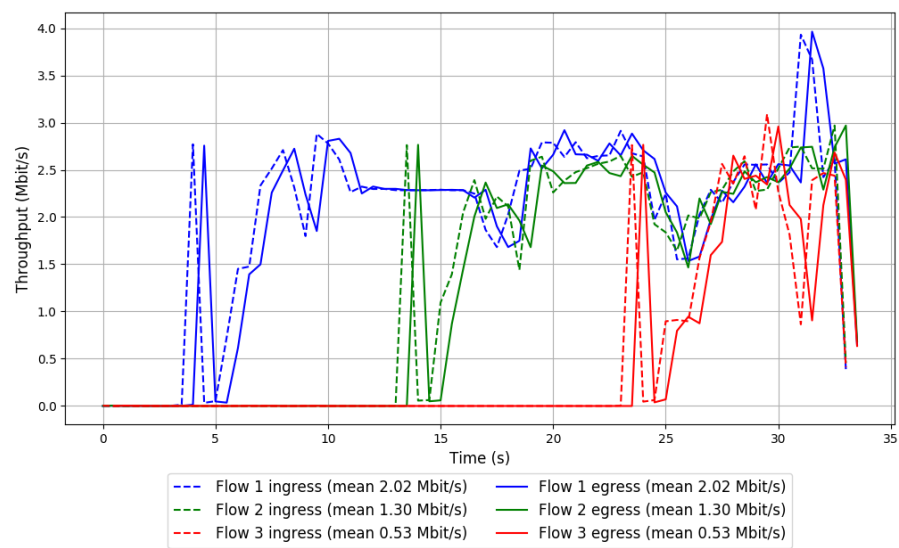


Run 3: Statistics of WebRTC media

Start at: 2018-06-07 06:03:35
End at: 2018-06-07 06:04:05
Local clock offset: 0.121 ms
Remote clock offset: -0.475 ms

Below is generated by plot.py at 2018-06-07 11:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 53.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 53.698 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 53.870 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 53.333 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

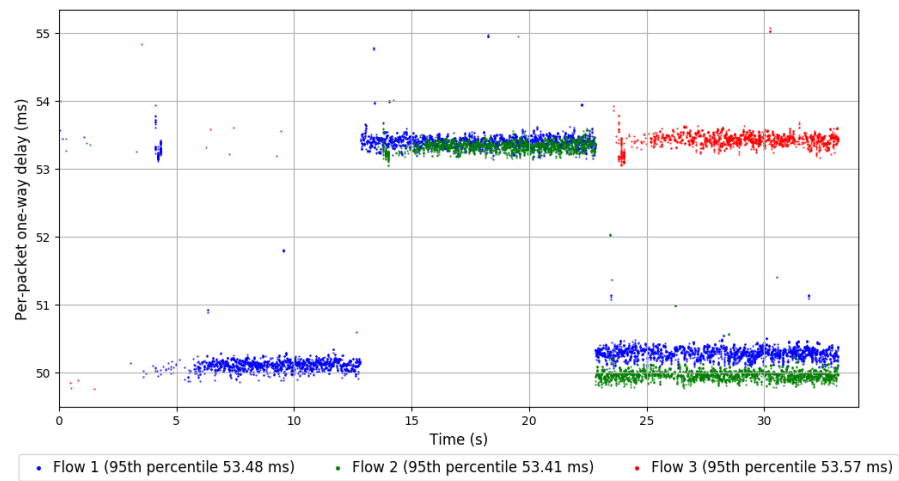
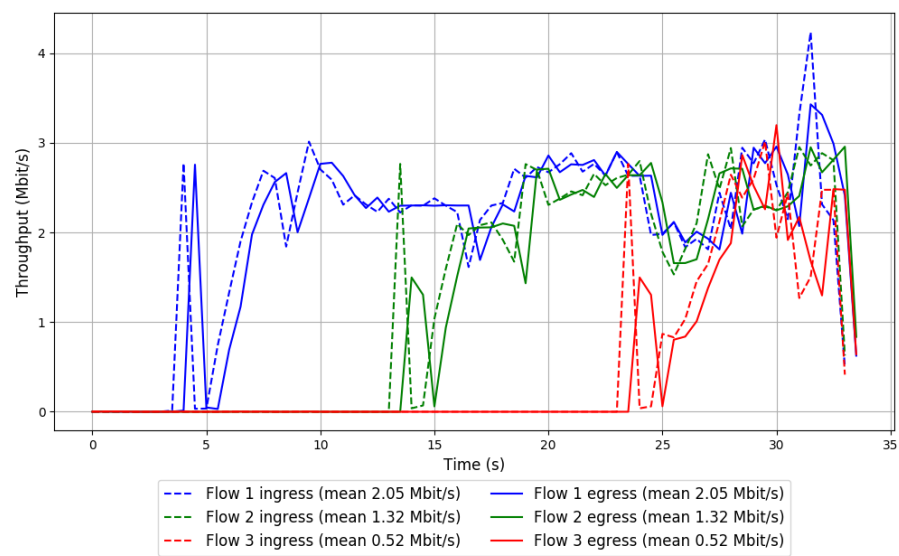


Run 4: Statistics of WebRTC media

Start at: 2018-06-07 06:26:13
End at: 2018-06-07 06:26:43
Local clock offset: 0.063 ms
Remote clock offset: -0.791 ms

Below is generated by plot.py at 2018-06-07 11:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.87 Mbit/s
95th percentile per-packet one-way delay: 53.495 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 53.481 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.32 Mbit/s
95th percentile per-packet one-way delay: 53.415 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 53.568 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

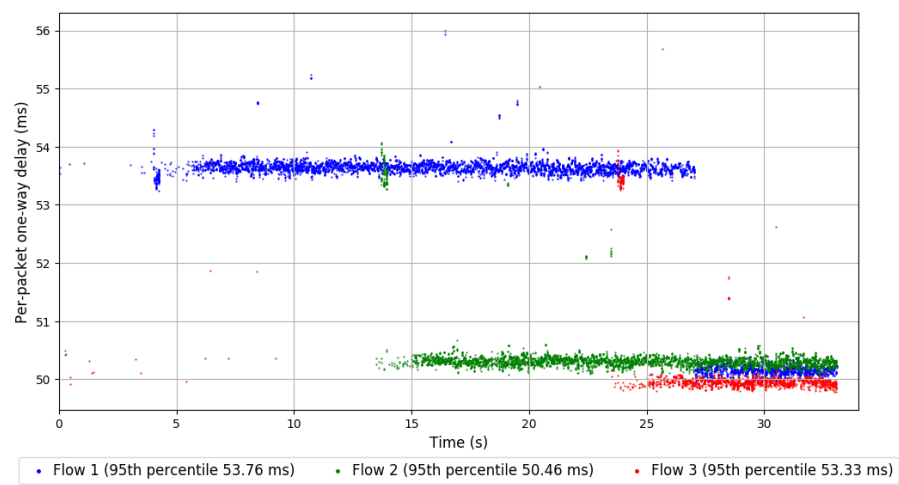
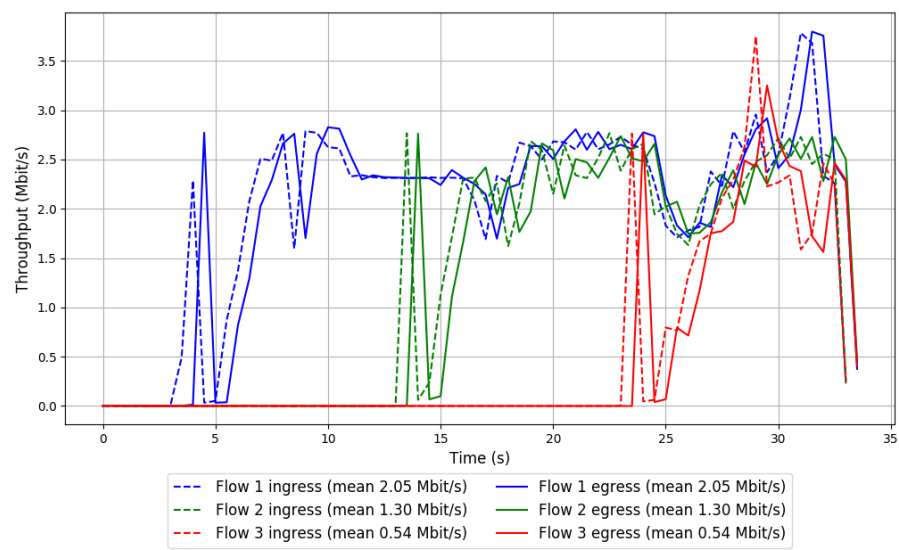


Run 5: Statistics of WebRTC media

Start at: 2018-06-07 06:49:09
End at: 2018-06-07 06:49:39
Local clock offset: -0.198 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-06-07 11:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.88 Mbit/s
95th percentile per-packet one-way delay: 53.732 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 50.462 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.330 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-07 07:11:45

End at: 2018-06-07 07:12:15

Local clock offset: -0.301 ms

Remote clock offset: 0.557 ms

Below is generated by plot.py at 2018-06-07 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.88 Mbit/s

95th percentile per-packet one-way delay: 54.490 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 54.463 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.31 Mbit/s

95th percentile per-packet one-way delay: 54.518 ms

Loss rate: 0.00%

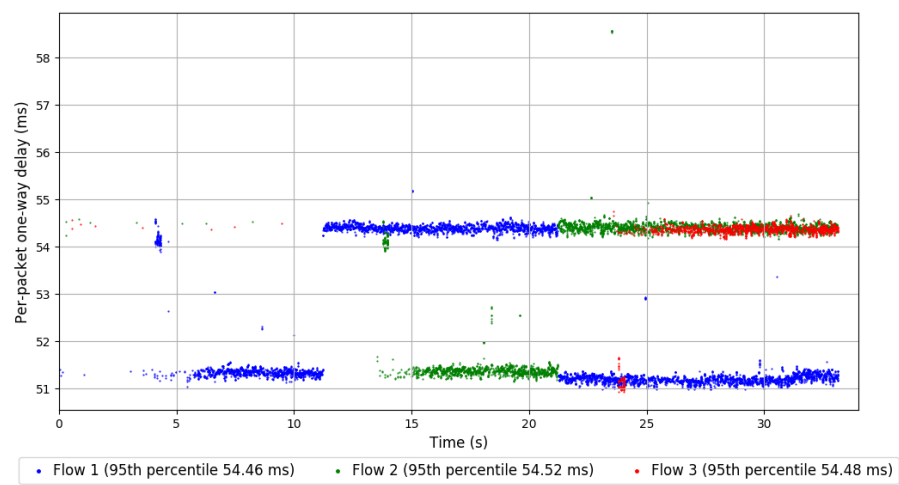
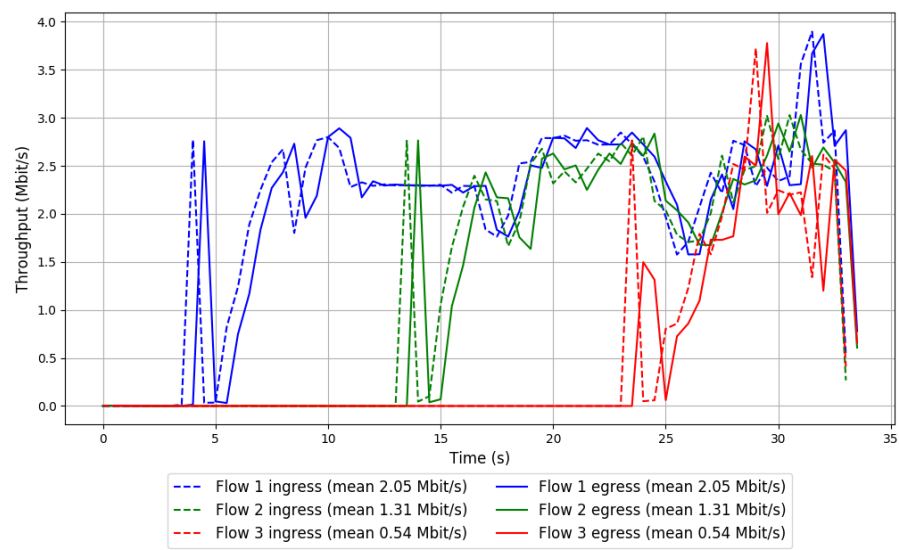
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 54.475 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-07 07:35:09

End at: 2018-06-07 07:35:39

Local clock offset: -0.346 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-07 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 53.562 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 53.593 ms

Loss rate: 0.00%

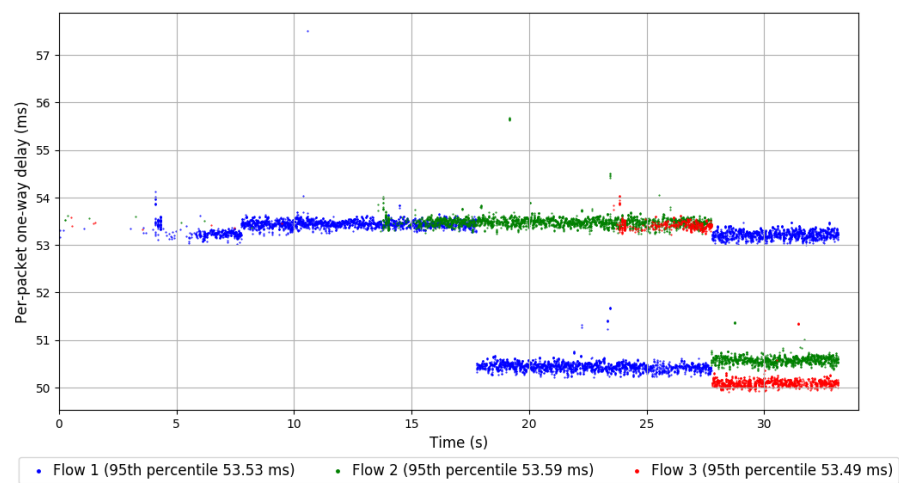
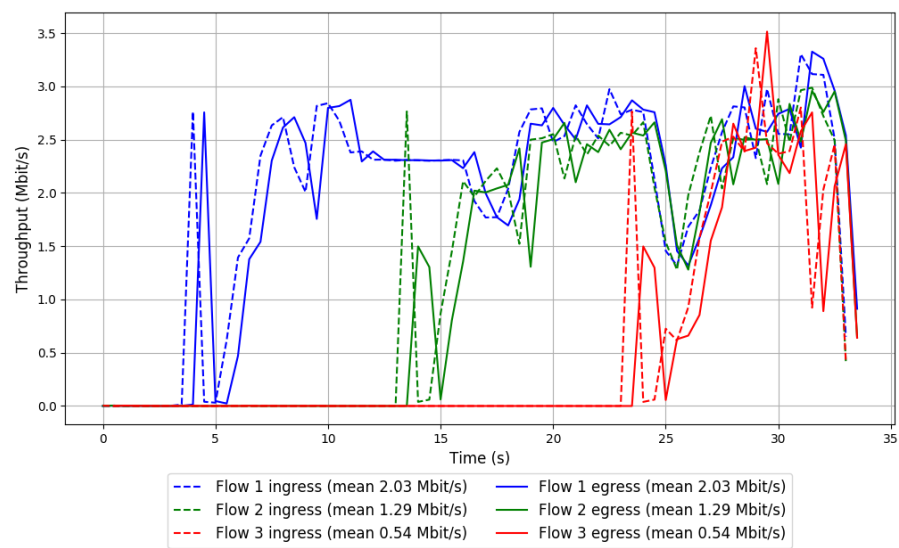
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 53.494 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-07 07:58:07

End at: 2018-06-07 07:58:37

Local clock offset: -0.033 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-06-07 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 53.618 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 53.620 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.29 Mbit/s

95th percentile per-packet one-way delay: 53.221 ms

Loss rate: 0.00%

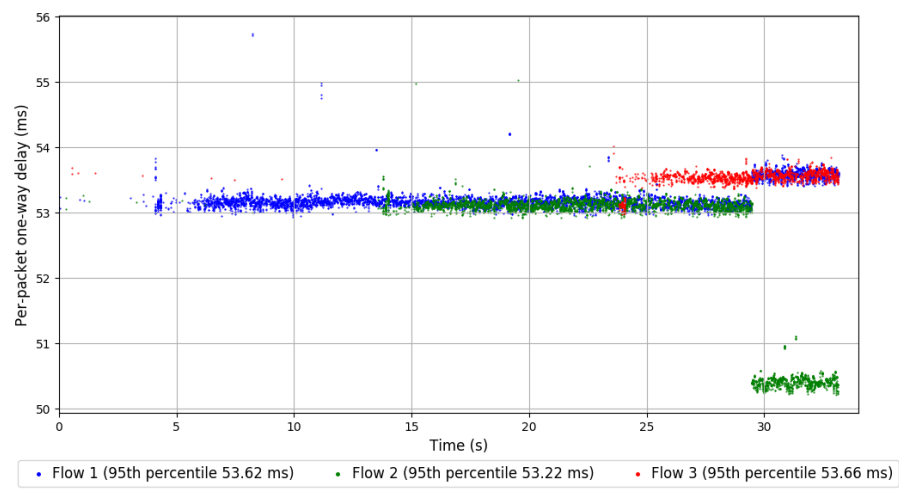
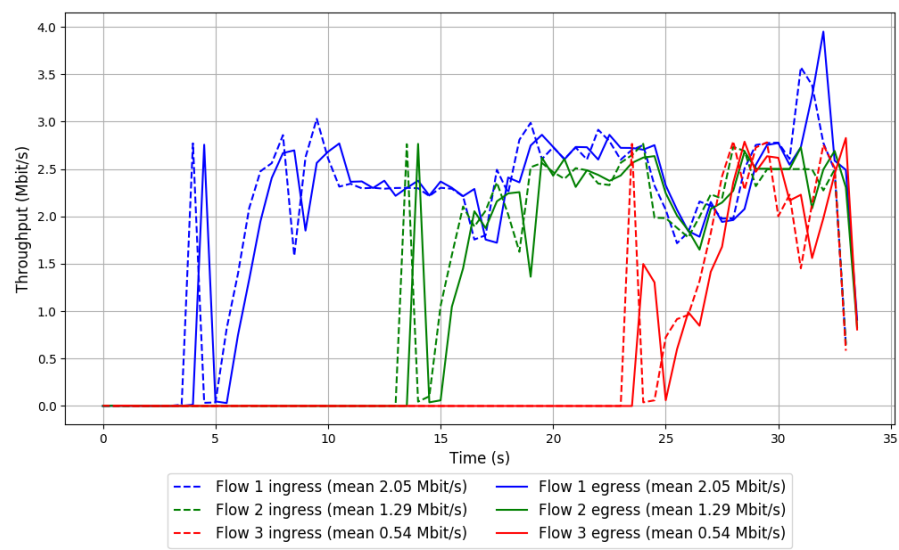
-- Flow 3:

Average throughput: 0.54 Mbit/s

95th percentile per-packet one-way delay: 53.661 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

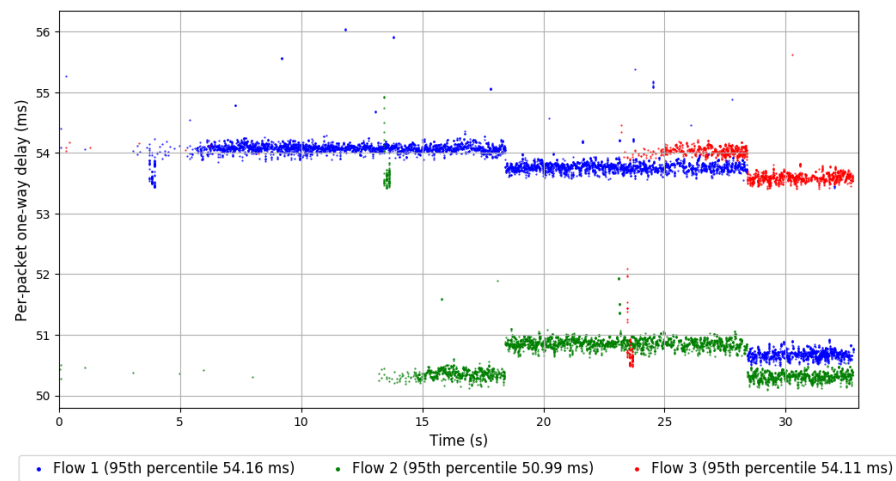
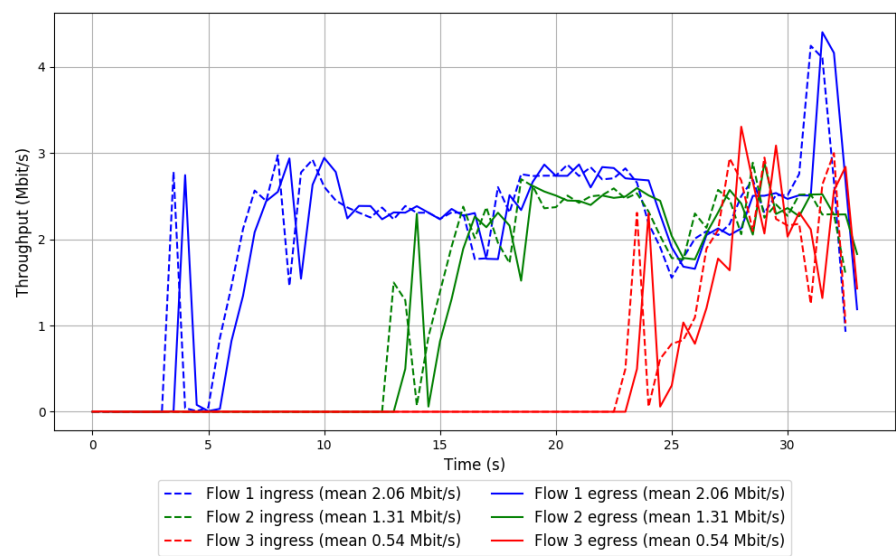


Run 9: Statistics of WebRTC media

Start at: 2018-06-07 08:20:48
End at: 2018-06-07 08:21:18
Local clock offset: -0.417 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-06-07 11:17:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 54.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 54.157 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 50.987 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 54.114 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-07 08:43:59

End at: 2018-06-07 08:44:29

Local clock offset: -1.681 ms

Remote clock offset: 0.186 ms

Below is generated by plot.py at 2018-06-07 11:17:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 55.251 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 52.787 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 52.632 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 55.358 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

