Pantheon Report

Generated at 2019-01-19 11:35:18 (UTC).
Data path: Stanford cellular on ppp0 (remote) → AWS California 1 on ens5 (local).
Repeated the test of 21 congestion control schemes 3 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against time.stanford.edu and have been applied to correct the timestamps in logs.

System info:
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912

Git summary:
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7e6ba17e6a32d4519
third_party/fillp-sheep @ 0e6bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594a89e93b032143cedb2fe58e562f4
third_party/indigo @ 2601c92e4a9d95d38dc44dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906cee6bb7cf3cbf
third_party/muses @ c3ee875824760ec5b2f2d207fefe166e1afe2170
third_party/pantheon-tunnel @ f86663f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afec958fa066d18b623c091a55f5c872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08f924eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1b8143ebc978f3cf42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3dbb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46a18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
test from Stanford cellular to AWS California 1, 3 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)
<table>
<thead>
<tr>
<th>scheme</th>
<th># runs</th>
<th>mean avg tput (Mbit/s) flow 1</th>
<th>mean avg tput (Mbit/s) flow 2</th>
<th>mean avg tput (Mbit/s) flow 3</th>
<th>mean 95th-%ile delay (ms) flow 1</th>
<th>mean 95th-%ile delay (ms) flow 2</th>
<th>mean 95th-%ile delay (ms) flow 3</th>
<th>mean loss rate (%) flow 1</th>
<th>mean loss rate (%) flow 2</th>
<th>mean loss rate (%) flow 3</th>
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<td>TCP BBR</td>
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<td>Indigo-MusesC3</td>
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</tbody>
</table>
Run 1: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/bbr_stats_run1.log does not exist
Run 1: Report of TCP BBR — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/bbr_stats_run2.log does not exist

Run 2: Report of TCP BBR — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/bbr_stats_run3.log does not exist
Run 3: Report of TCP BBR — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of Copa

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/
Run 1: Report of Copa — Data Link

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Figure is missing
Run 2: Statistics of Copa

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/copa_stats_run2.log does not exist
Run 2: Report of Copa — Data Link

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Figure is missing
Run 3: Statistics of Copa

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/copa_stats_run3.log does not exist
Run 3: Report of Copa — Data Link

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Figure is missing
Run 1: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/cubic_stats_run1.log does not exist
Run 1: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/cubic_stats_run2.log does not exist
Run 2: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of TCP Cubic

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/cubic_stats_run3.log does not exist
Run 3: Report of TCP Cubic — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of FillP

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/fillp_stats_run1.log does not exist
Run 1: Report of FillP — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of FillP

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/fillp_stats_run2.log does not exist
Run 2: Report of FillP — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of FillP

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-f
Run 3: Report of FillP — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/fillp_sheep_stats_run1.log does not exist
Run 1: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/fillp_sheep_stats_run2.log does not exist
Run 2: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of FillP-Sheep

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/fillp_sheep_stats_run3.log does not exist
Run 3: Report of FillP-Sheep — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of Indigo

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_stats_run1.log does not exist
Run 1: Report of Indigo — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of Indigo

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_stats_run2.log does not exist
Run 2: Report of Indigo — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of Indigo

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_stats_run3.log does not exist
Run 3: Report of Indigo — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of Indigo-MusesC3

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flow
Run 1: Report of Indigo-MusesC3 — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of Indigo-MusesC3

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_musesc3_stats_run2.log does not exist
Run 2: Report of Indigo-MusesC3 — Data Link

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Figure is missing
Run 3: Statistics of Indigo-MusesC3

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-f...
Run 3: Report of Indigo-MusesC3 — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of Indigo-MusesC5

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows
Run 1: Report of Indigo-MusesC5 — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of Indigo-MusesC5

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_musesc5_stats_run2.log does not exist
Run 2: Report of Indigo-MusesC5 — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of Indigo-MusesC5

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_musesc5_stats_run3.log does not exist
Run 3: Report of Indigo-MusesC5 — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of Indigo-MusesD

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_musesd_stats_run1.log does not exist
Run 1: Report of Indigo-MusesD — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of Indigo-MusesD

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_musesd_stats_run2.log does not exist
Run 2: Report of Indigo-MusesD — Data Link

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Figure is missing
Run 3: Statistics of Indigo-MusesD

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-
Run 3: Report of Indigo-MusesD — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of Indigo-MusesT

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_musest_stats_run1.log does not exist
Run 1: Report of Indigo-MusesT — Data Link

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Figure is missing
Run 2: Statistics of Indigo-MusesT

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows
Run 2: Report of Indigo-MusesT — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of Indigo-MusesT

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/indigo_musest_stats_run3.log does not exist
Run 3: Report of Indigo-MusesT — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/ledbat_stats_run1.log does not exist
Run 1: Report of LEDBAT — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/ledbat_stats_run2.log does not exist
Run 2: Report of LEDBAT — Data Link

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Figure is missing
Run 3: Statistics of LEDBAT

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows
Run 3: Report of LEDBAT — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/pcc_stats_run1.log does not exist
Run 1: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/pcc_stats_run2.log does not exist
Run 2: Report of PCC-Allegro — Data Link

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Figure is missing
Run 3: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/pcc_stats_run3.log does not exist
Run 3: Report of PCC-Allegro — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/pcc_experimental_stats_run1.log does not exist
Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/pcc_experimental_stats_run2.log does not exist
Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of PCC-Expr

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/pcc_experimental_stats_run3.log does not exist
Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/quic_stats_run1.log does not exist
Run 1: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/quic_stats_run2.log does not exist
Run 2: Report of QUIC Cubic — Data Link

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Figure is missing
Run 3: Statistics of QUIC Cubic

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-f
Run 3: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of SCReAM

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/scream_stats_run1.log does not exist
Run 1: Report of SCReAM — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of SCReAM

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/scream_stats_run2.log does not exist
Run 2: Report of SCReAM — Data Link

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Figure is missing
Run 3: Statistics of SCReAM

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/scream_stats_run3.log does not exist

93
Run 3: Report of SCReAM — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of Sprout

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/sprout_stats_run1.log does not exist
Run 1: Report of Sprout — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of Sprout

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-
Run 2: Report of Sprout — Data Link

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Figure is missing
Run 3: Statistics of Sprout

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/sprout_stats_run3.log does not exist
Run 3: Report of Sprout — Data Link

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Figure is missing
Run 1: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/taova_stats_run1.log does not exist
Run 1: Report of TaoVA-100x — Data Link

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Figure is missing
Run 2: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-f
Run 2: Report of TaoVA-100x — Data Link

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Figure is missing
Run 3: Statistics of TaoVA-100x

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/taova_stats_run3.log does not exist
Run 3: Report of TaoVA-100x — Data Link

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Figure is missing
Run 1: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/vegas_stats_run1.log does not exist
Run 1: Report of TCP Vegas — Data Link

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Figure is missing
Run 2: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/vegas_stats_run2.log does not exist
Run 2: Report of TCP Vegas — Data Link

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Figure is missing
Run 3: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/vegas_stats_run3.log does not exist
Run 3: Report of TCP Vegas — Data Link

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Figure is missing
Run 1: Statistics of Verus

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows
Run 1: Report of Verus — Data Link

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Figure is missing
Run 2: Statistics of Verus

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-f
Run 2: Report of Verus — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of Verus

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/verus_stats_run3.log does not exist
Run 3: Report of Verus — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/vivace_stats_run1.log does not exist
Run 1: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-f
Run 2: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of PCC-Vivace

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-f
Run 3: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing
Run 1: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/webrtc_stats_run1.log does not exist
Run 1: Report of WebRTC media — Data Link

Figure is missing

Figure is missing
Run 2: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-flows-3-flows-webrtc_stats_run2.log does not exist
Run 2: Report of WebRTC media — Data Link

Figure is missing

Figure is missing
Run 3: Statistics of WebRTC media

/home/ubuntu/pantheon/data/2019-01-19T09-51-Stanford-cellular-to-AWS-California-1-3-runs-3-flows/webrtc_stats_run3.log does not exist
Run 3: Report of WebRTC media — Data Link

Figure is missing

Figure is missing