Cross-run-ID Comparison Report

(differences in bold)

MHZ_PER_CPU:
haMSb: 3394
PtAdZ: 3394

HELICS_VERSION:
haMSb: 2.5.0 (2020
PtAdZ: 2.5.0 (2020

GENERATOR:
haMSb: Visual Studio 15 2017
PtAdZ: Visual Studio 15 2017

SYSTEM:
haMSb: Windows
PtAdZ: Windows

SYSTEM_VERSION:
haMSb: 10.0.18363
PtAdZ: 10.0.18363

PLATFORM:
haMSb: x64
PtAdZ: Win32

CXX_COMPILER:
haMSb: MSVC
PtAdZ: MSVC

CXX_COMPILER_VERSION:
haMSb: 19.16.27026.1
PtAdZ: 19.16.27039.0

BUILD_FLAGS_STRING:
haMSb: /DWIN32 /D_WINDOWS /GR /EHsc /O2 /Ob2 /DNDEBUG /machine:x64 /EHsc;/std:c++14
PtAdZ: /DWIN32 /D_WINDOWS /GR /EHsc /O2 /Ob2 /DNDEBUG /machine:X86 /EHsc;/std:c++14
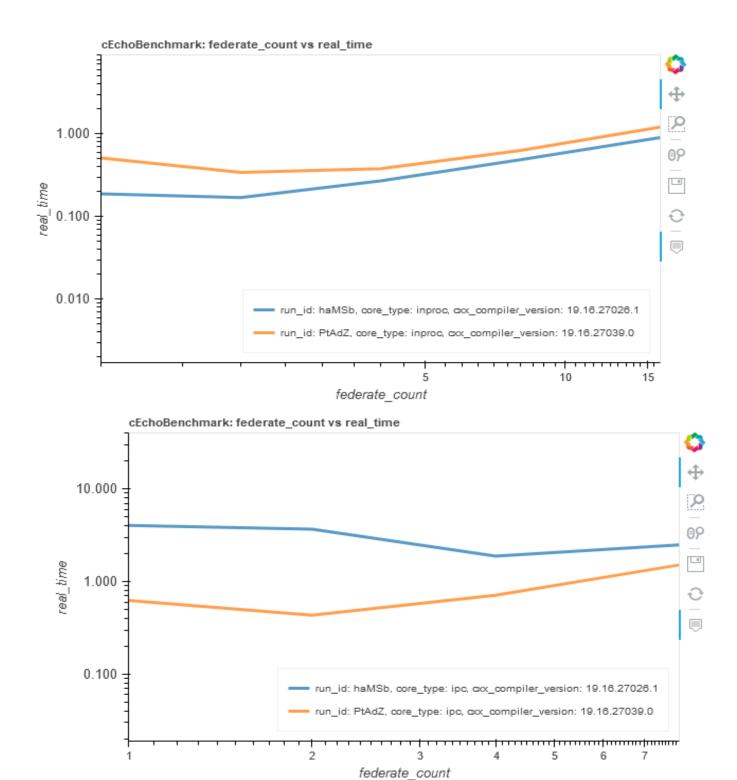
HOST_NAME:
haMSb: SIRIUS
PtAdZ: SIRIUS

HOST_PROCESSOR:
haMSb: AMD64
PtAdZ: AMD64

NUM_CPUS:
haMSb: 32
PtAdZ: 32

DATE:
haMSb: 04/28/20 21:21:37
PtAdZ: 05/02/20 08:45:57

cEchoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

cEchoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

real_time vs *federate_count*

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

real_time vs *federate_count*

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0
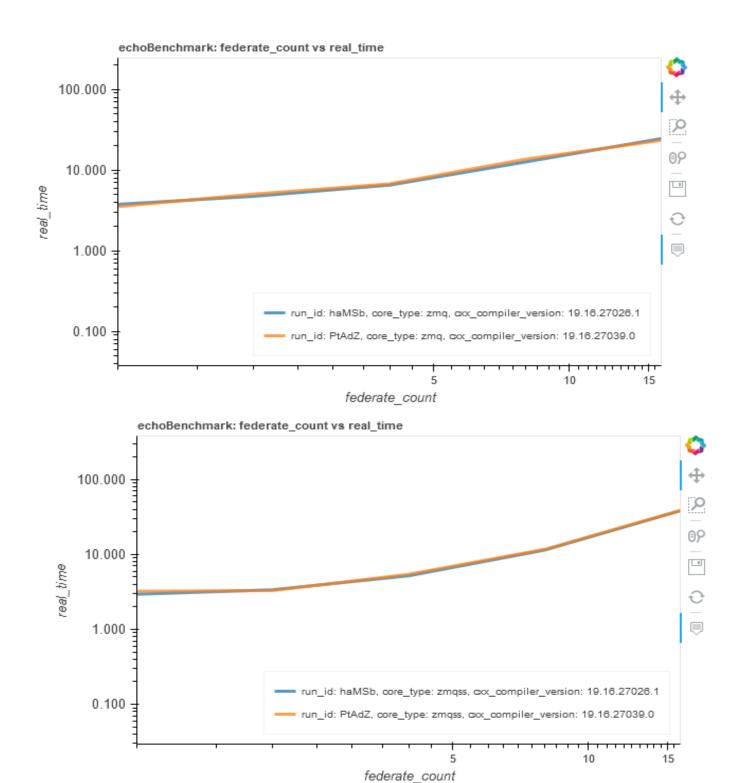
echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0
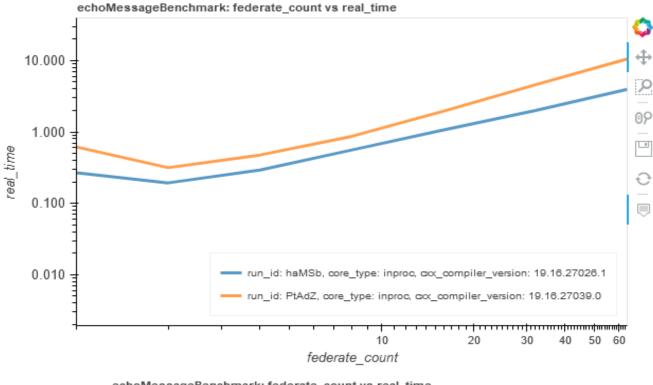
echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

echoBenchmark: federate_count vs real_time
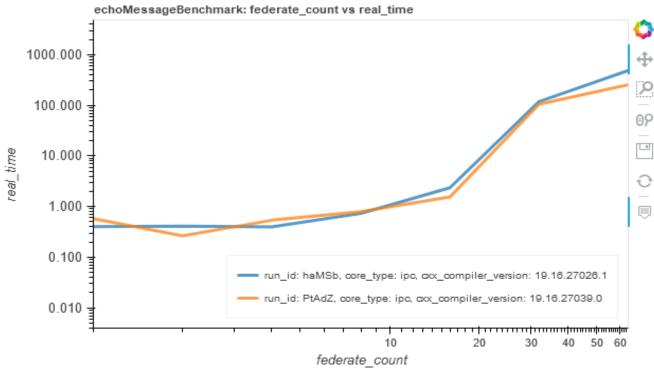
run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

echoBenchmark: federate_count vs real_time
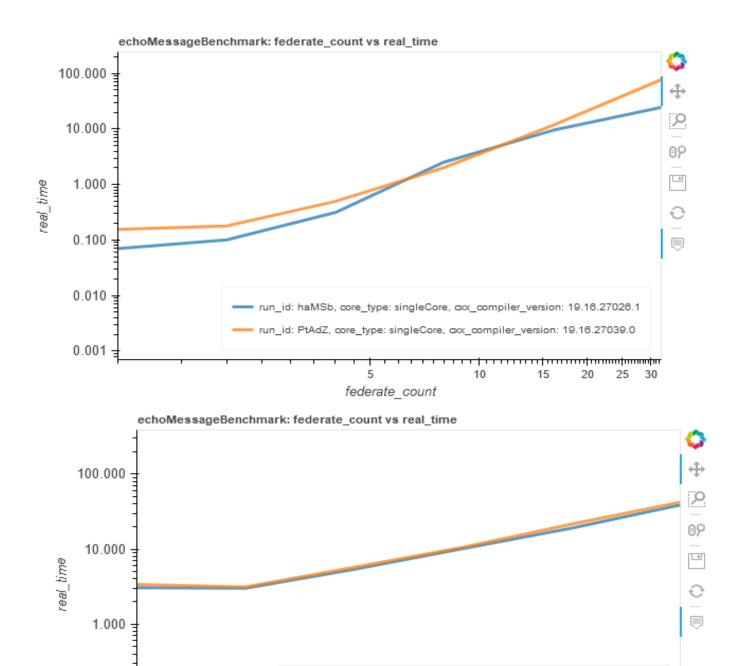

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

echoMessageBenchmark: federate_count vs real_time

(top chart) — run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

echoMessageBenchmark: federate_count vs real_time

(bottom chart) — run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
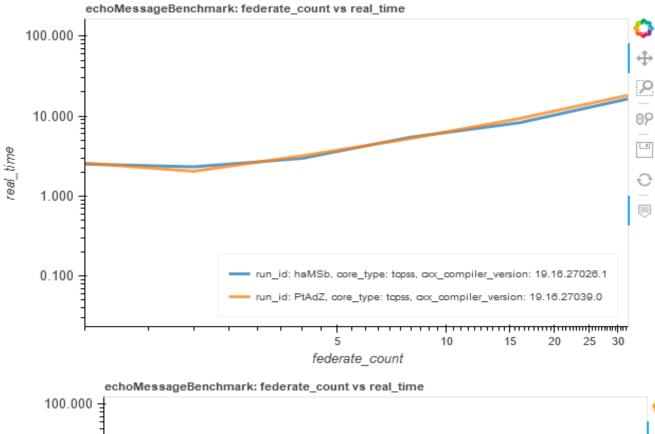run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

echoMessageBenchmark: federate_count vs real_time
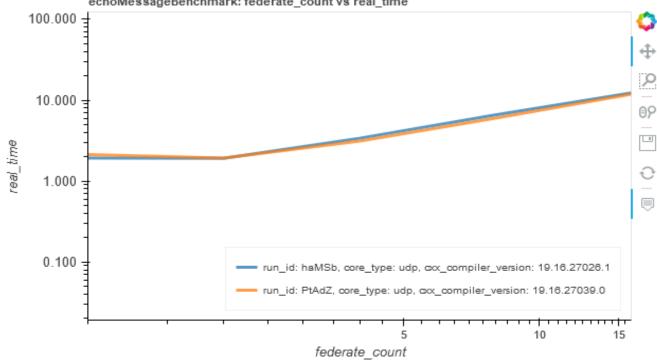

echoMessageBenchmark: federate_count vs real_time

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echoMessageBenchmark: federate_count vs real_time

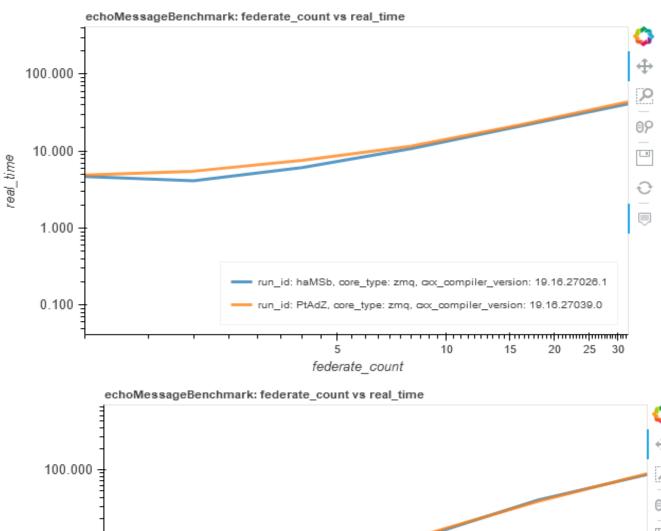|	
—	run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
—	run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

federate_count

echoMessageBenchmark: federate_count vs real_time

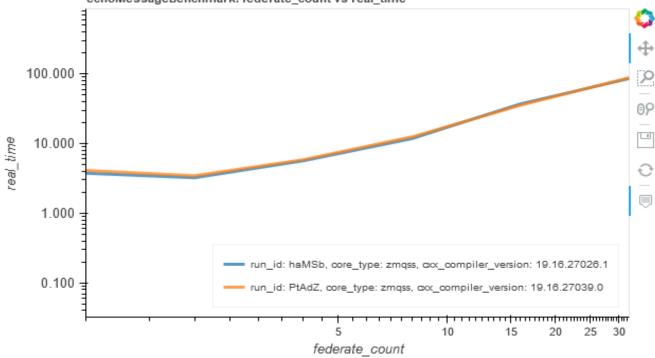|	
—	run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
—	run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

federate_count

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

Axes: real_time vs federate_count

filter, fltr_loc=dest: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0

Axes: real_time vs federate_count

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

filter, fltr_loc=source: federate_count vs real_time

filter, fltr_loc=source: federate_count vs real_time

- run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

- run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

real_time vs *federate_count*

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

real_time vs *federate_count*

filter, singleCore: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

messageLookup, fed_ct=2: interface_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

messageLookup, fed_ct=64: interface_count vs real_time

Legend:
- run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

messageLookup, fed_ct=8: interface_count vs real_time

Legend:
- run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

messageSend, msg_ct=1: message_size vs real_time

- run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

messageSend, msg_ct=1: message_size vs real_time

- run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0
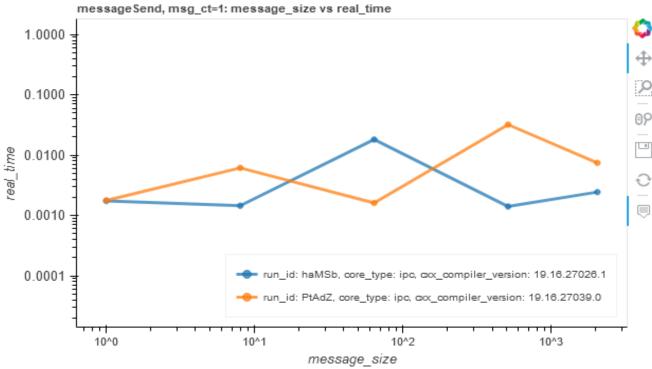
messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

messageSend, msg_ct=1: message_size vs real_time
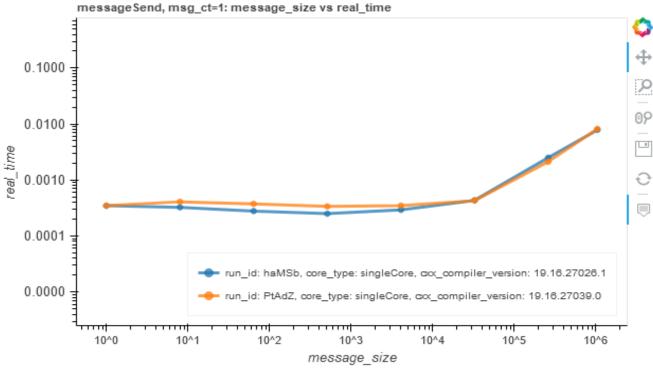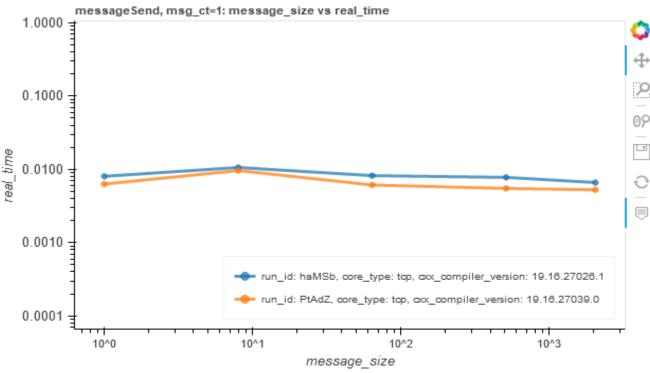

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

messageSend, msg_sz=1: message_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0
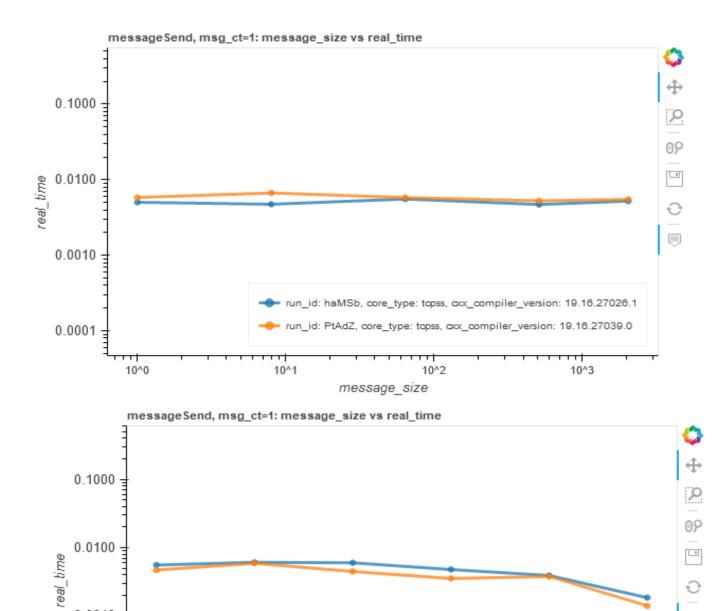

messageSend, msg_sz=1: message_count vs real_time

run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

messageSend, msg_sz=1: message_count vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

messageSend, msg_sz=1: message_count vs real_time

Legend:
- run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0

messageSend, msg_sz=1: message_count vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
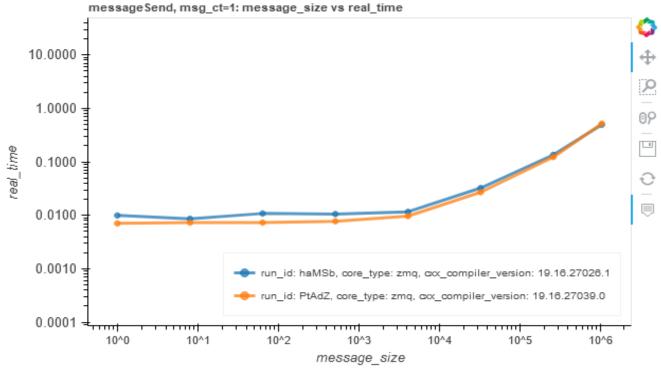run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

message_count

messageSend, msg_sz=1: message_count vs real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

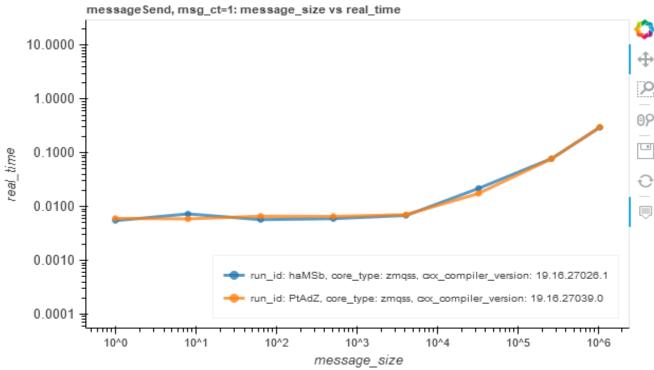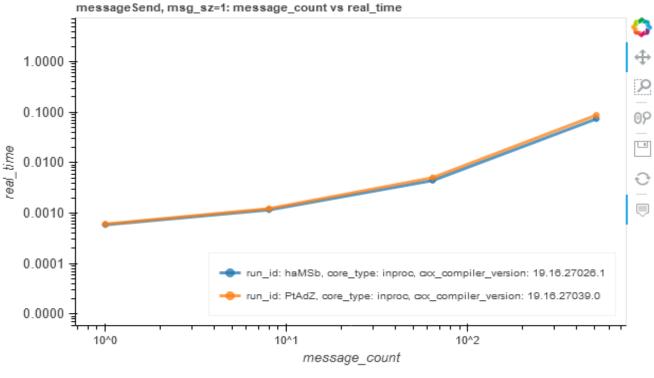*message_count*

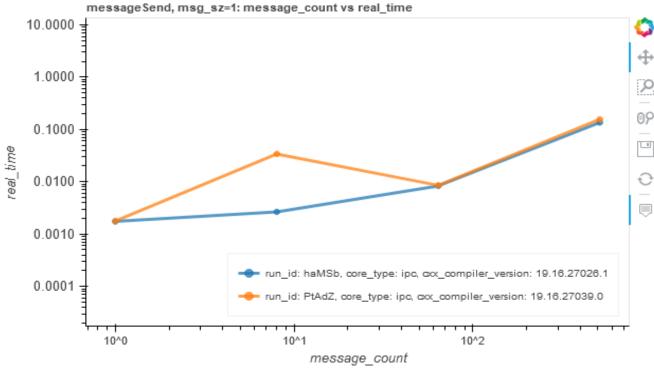**messageSend, msg_sz=1: message_count vs real_time**

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

messageSend, msg_sz=1: message_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

messageSend, singleCore: message_size vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

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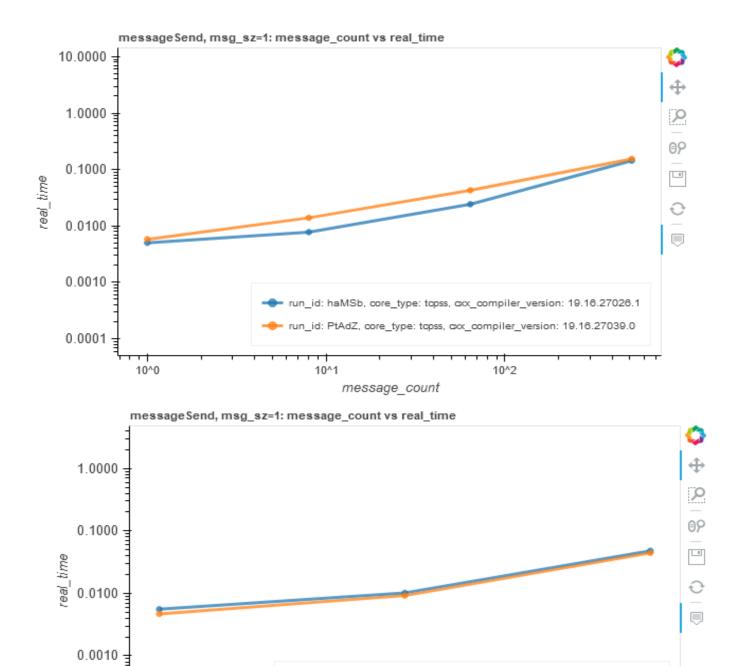
pholdBenchmark: federate_count vs real_time
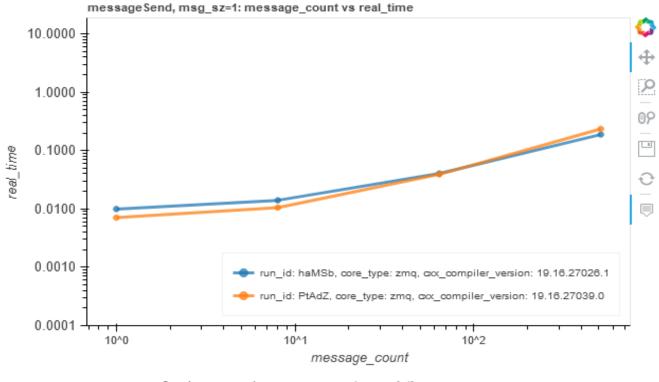

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0
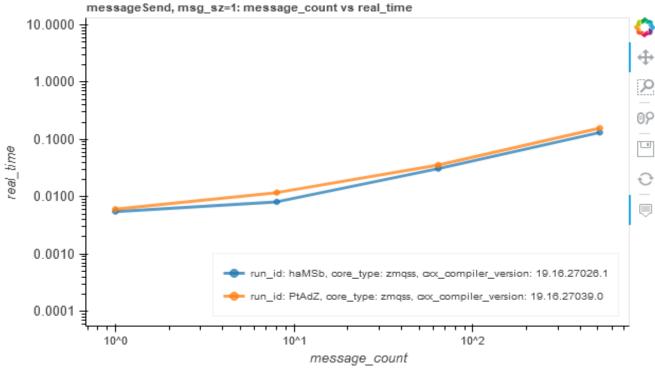
pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

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run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0
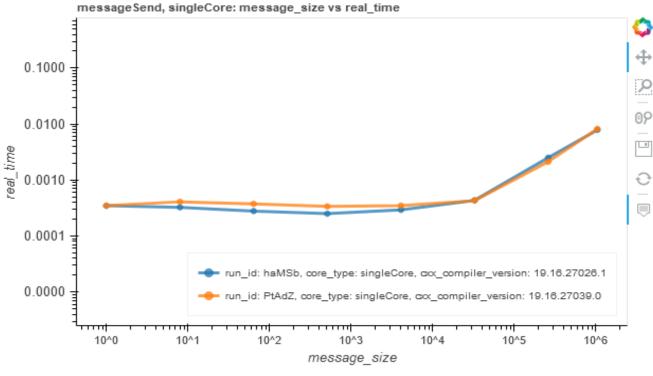
ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0

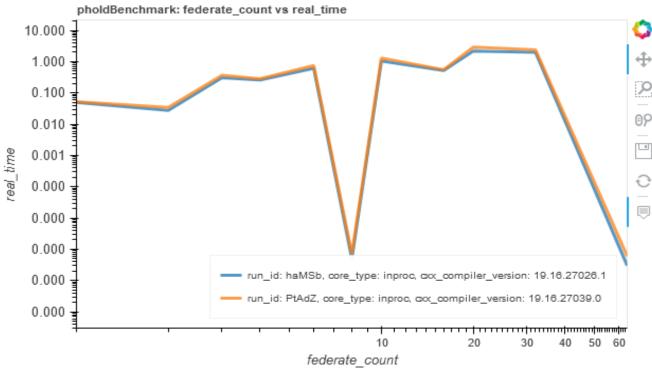**ringBenchmark: federate_count vs real_time**

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

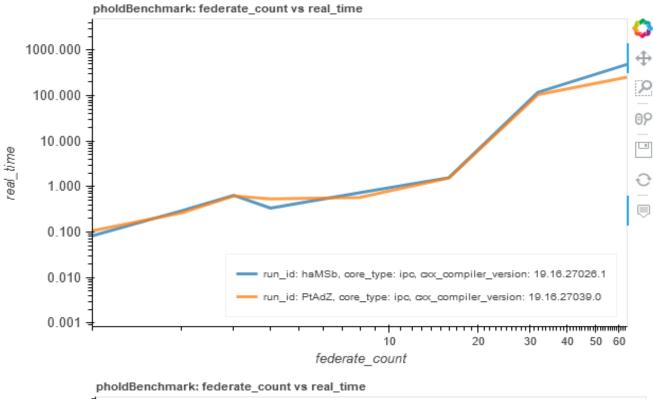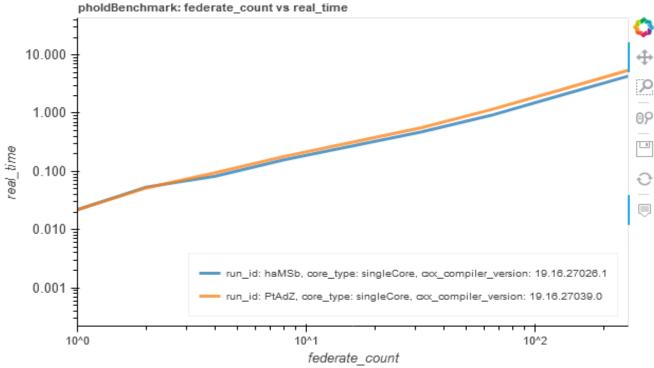**ringBenchmark: federate_count vs real_time**

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
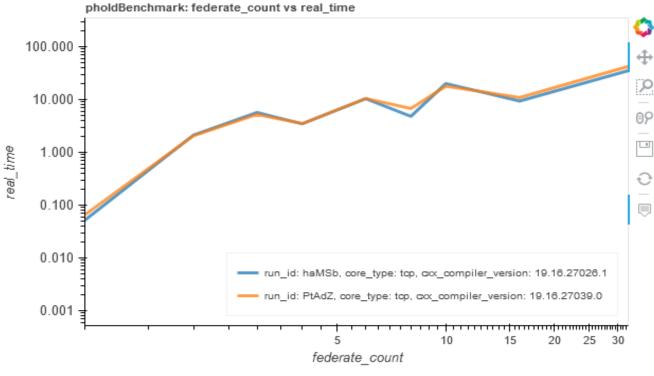run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

ringMessageBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0

ringMessageBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

ringMessageBenchmark: federate_count vs real_time

real_time

100.000

10.000

1.000

0.100

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

2   3   4   5   6   7   8   9   10

federate_count

ringMessageBenchmark: federate_count vs real_time

real_time

100.000

10.000

1.000

0.100

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

2   3   4   5   6   7   8   9   10

federate_count

ringMessageBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
- run_id: PtAdZ, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
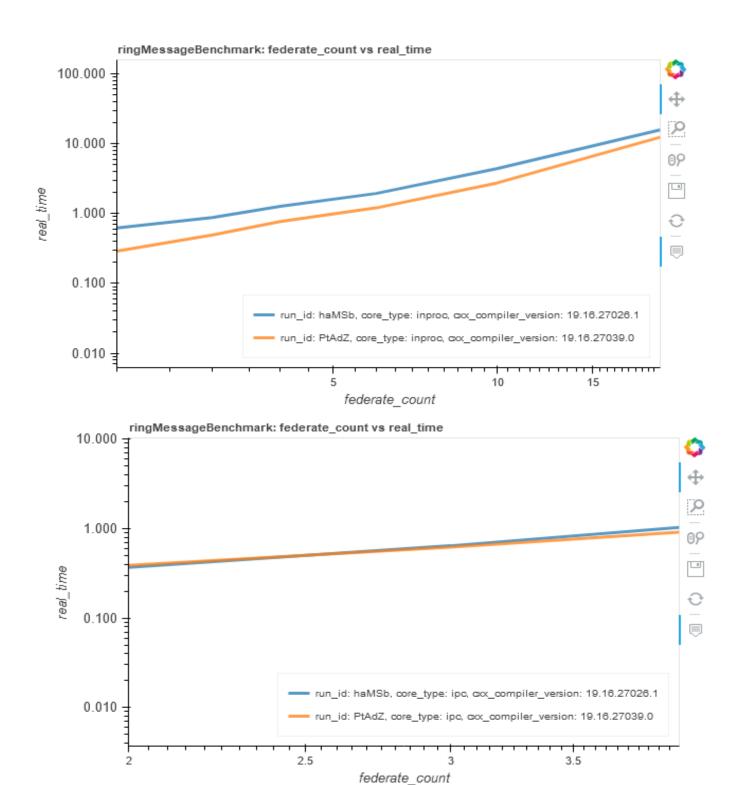- run_id: PtAdZ, core_type: inproc, cxx_compiler_version: 19.16.27039.0

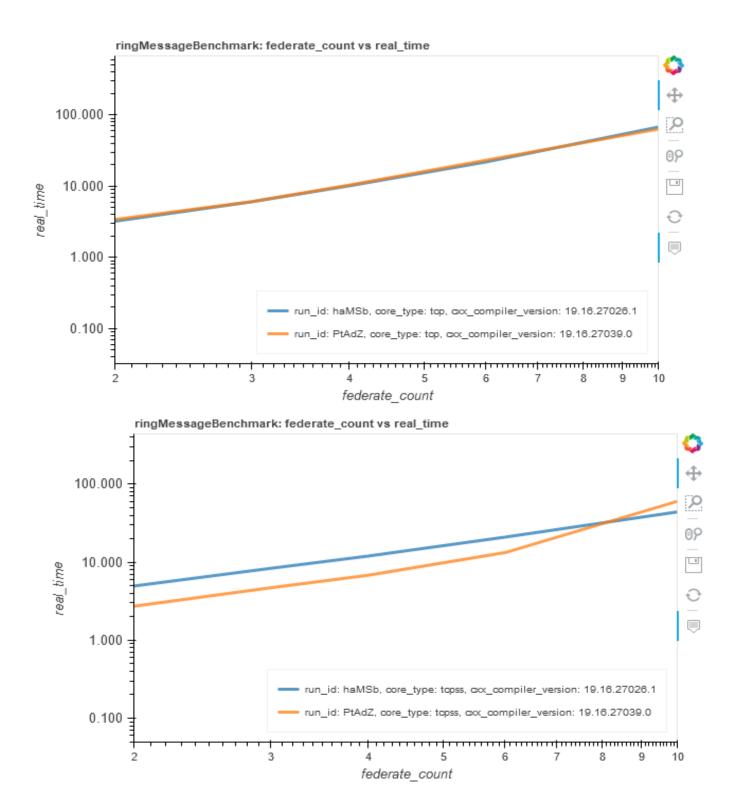timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: ipc, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time
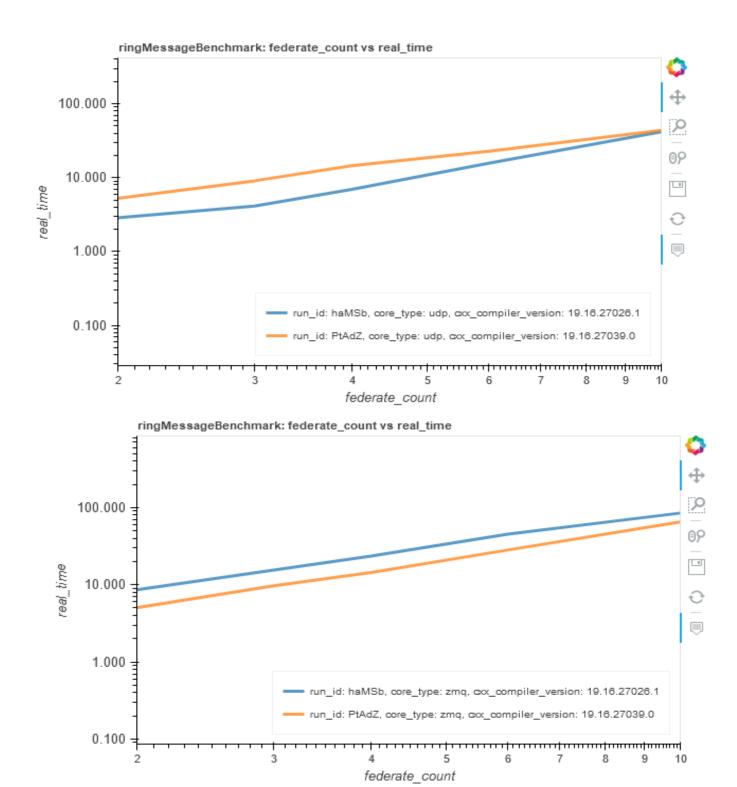
run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcp, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time
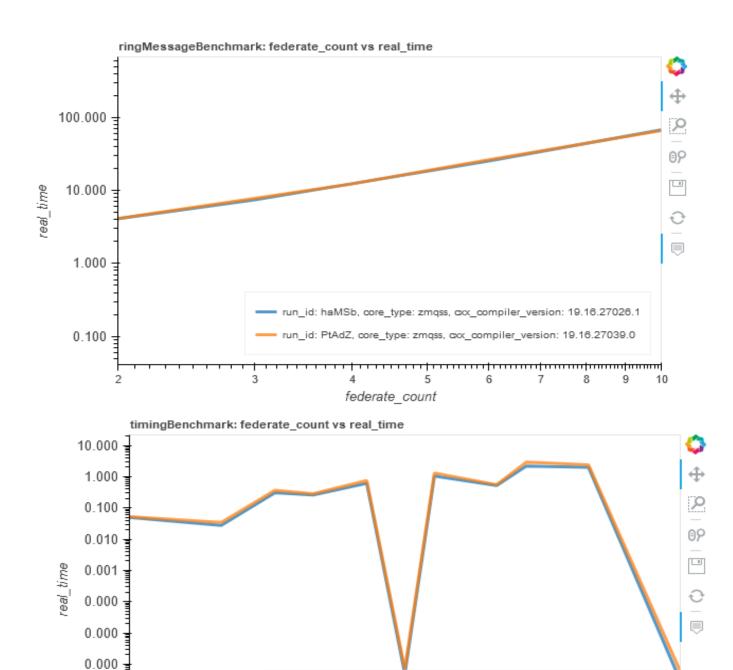
run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: udp, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: PtAdZ, core_type: zmq, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time