Cross-run-ID Comparison Report

(differences in bold)

MHZ_PER_CPU:
haMSb: 3394
wQ0ju: 3394

HELICS_VERSION:
haMSb: 2.5.0 (2020
wQ0ju: 2.5.0 (2020

GENERATOR:
haMSb: Visual Studio 15 2017
wQ0ju: Visual Studio 16 2019

SYSTEM:
haMSb: Windows
wQ0ju: Windows

SYSTEM_VERSION:
haMSb: 10.0.18363
wQ0ju: 10.0.18363

PLATFORM:
haMSb: x64
wQ0ju: x64

CXX_COMPILER:
haMSb: MSVC
wQ0ju: MSVC

CXX_COMPILER_VERSION:
haMSb: 19.16.27026.1
wQ0ju: 19.25.28614.0

BUILD_FLAGS_STRING:
haMSb: /DWIN32 /D_WINDOWS /GR /EHsc /O2 /Ob2 /DNDEBUG /machine:x64 /EHsc;/std:c++14
wQ0ju: /DWIN32 /D_WINDOWS /GR /EHsc /O2 /Ob2 /DNDEBUG /GL /LTCG /arch:AVX2 /machine:x64
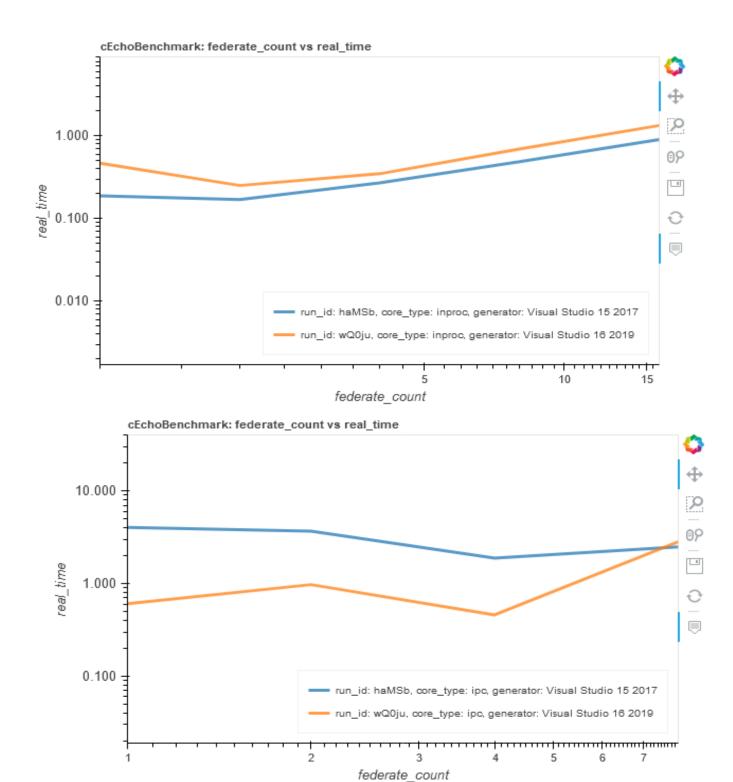**/EHsc;/std:c++14**

HOST_NAME:
haMSb: SIRIUS
wQ0ju: SIRIUS

HOST_PROCESSOR:
haMSb: AMD64
wQ0ju: AMD64

NUM_CPUS:
haMSb: 32
wQ0ju: 32

DATE:
haMSb: 04/28/20 21:21:37
wQ0ju: 05/02/20 21:37:25

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

cEchoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

real_time vs federate_count

cEchoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

real_time vs federate_count

cEchoBenchmark: federate_count vs real_time

real_time vs **federate_count**

Legend:
- run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

cEchoBenchmark: federate_count vs real_time

real_time vs **federate_count**

Legend:
- run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

cEchoBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
— run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

cEchoBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
— run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

echoBenchmark: federate_count vs real_time
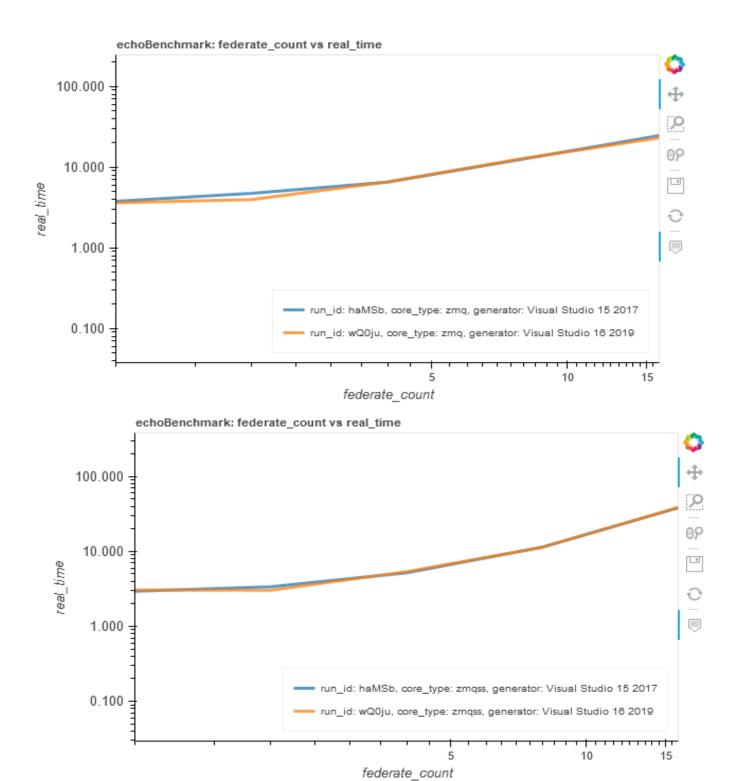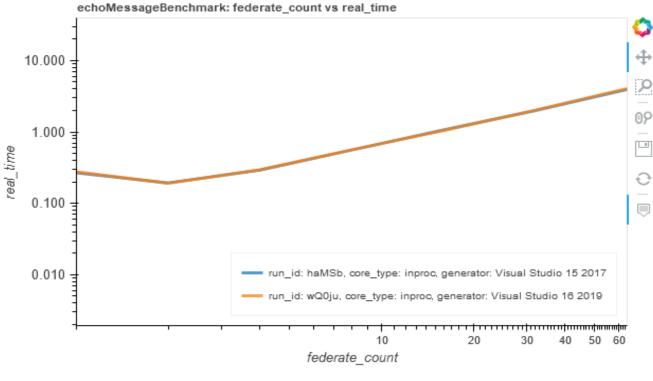

run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

echoBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

echoBenchmark: federate_count vs real_time
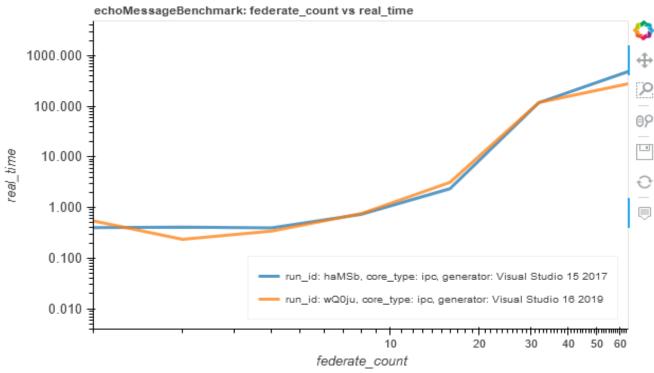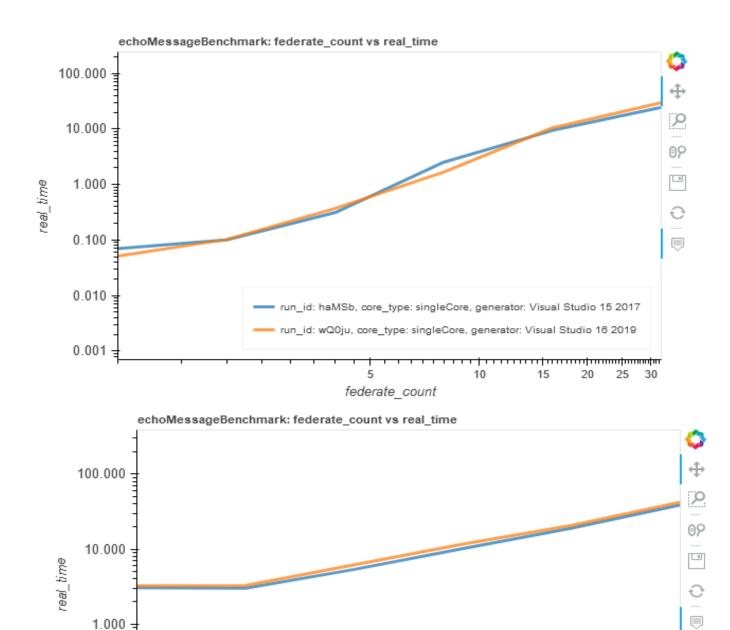

- run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
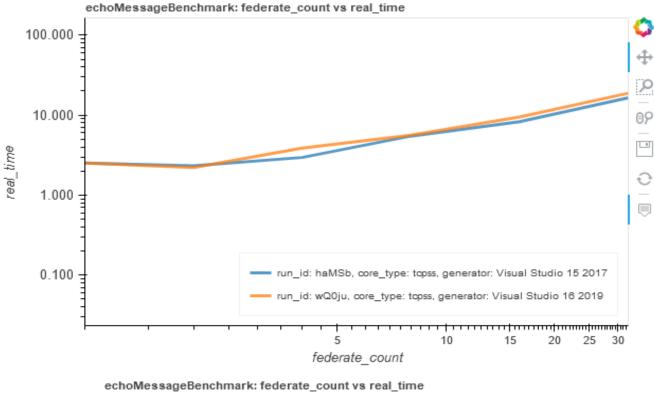run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

echoMessageBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

echoMessageBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

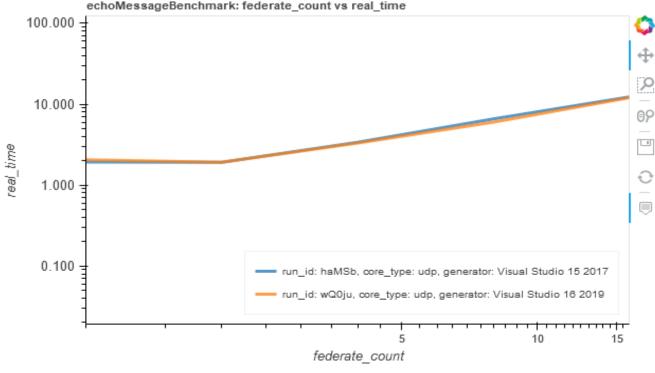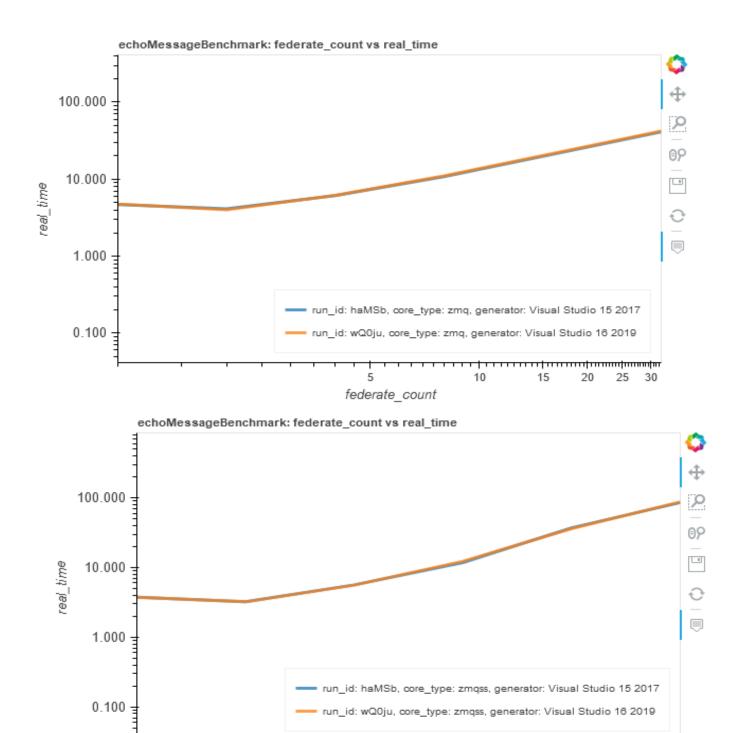**echoMessageBenchmark: federate_count vs real_time**

Legend:
- run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

echoMessageBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

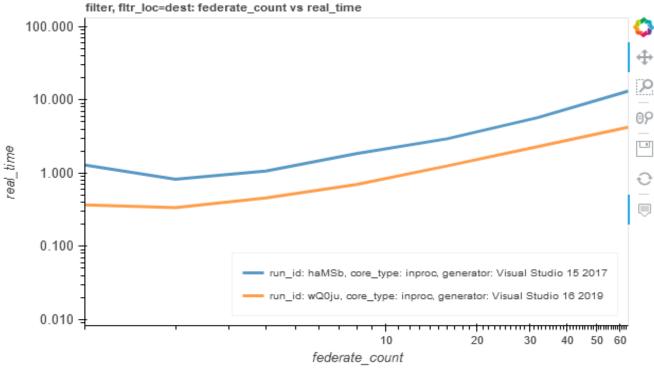## echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

federate_count

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

federate_count

filter, fltr_loc=dest: federate_count vs real_time

filter, fltr_loc=dest: federate_count vs real_time

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

filter, fltr_loc=dest: federate_count vs real_time

filter, fltr_loc=dest: federate_count vs real_time

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

filter, singleCore: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

Axes: real_time (y) vs federate_count (x)

messageLookup, fed_ct=2: interface_count vs real_time

Legend:
- run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

Axes: real_time (y) vs interface_count (x)

messageLookup, fed_ct=64: interface_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

messageLookup, fed_ct=8: interface_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

messageSend, msg_ct=1: message_size vs real_time

run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

messageSend, msg_sz=1: message_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

messageSend, msg_sz=1: message_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

messageSend, msg_sz=1: message_count vs real_time

(top plot)
- run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

messageSend, msg_sz=1: message_count vs real_time

(bottom plot)
- run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

messageSend, msg_sz=1: message_count vs real_time

Legend:
- run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

X-axis: message_count
Y-axis: real_time

messageSend, msg_sz=1: message_count vs real_time

Legend:
- run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

X-axis: message_count
Y-axis: real_time

messageSend, msg_sz=1: message_count vs real_time

- run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

messageSend, msg_sz=1: message_count vs real_time

- run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

messageSend, singleCore: message_size vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

pholdBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
- run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

pholdBenchmark: federate_count vs real_time

pholdBenchmark: federate_count vs real_time

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

federate_count

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

federate_count

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

ringMessageBenchmark: federate_count vs real_time

ringMessageBenchmark: federate_count vs real_time

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmqss, generator: Visual Studio 16 2019

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: inproc, generator: Visual Studio 16 2019

timingBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: ipc, generator: Visual Studio 15 2017
— run_id: wQ0ju, core_type: ipc, generator: Visual Studio 16 2019

timingBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: singleCore, generator: Visual Studio 15 2017
— run_id: wQ0ju, core_type: singleCore, generator: Visual Studio 16 2019

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcp, generator: Visual Studio 16 2019

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: tcpss, generator: Visual Studio 16 2019

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: udp, generator: Visual Studio 16 2019

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, generator: Visual Studio 15 2017
run_id: wQ0ju, core_type: zmq, generator: Visual Studio 16 2019

timingBenchmark: federate_count vs real_time