Cross-run-ID Comparison Report

(differences in bold)

MHZ_PER_CPU:
haMSb: 3394
m2pv2: 3394

HELICS_VERSION:
haMSb: 2.5.0 (2020
m2pv2: 2.5.0 (2020

GENERATOR:
haMSb: Visual Studio 15 2017
m2pv2: Visual Studio 15 2017

SYSTEM:
haMSb: Windows
m2pv2: Windows

SYSTEM_VERSION:
haMSb: 10.0.18363
m2pv2: 10.0.18363

PLATFORM:
haMSb: x64
m2pv2: x64

CXX_COMPILER:
haMSb: MSVC
m2pv2: MSVC

CXX_COMPILER_VERSION:
haMSb: 19.16.27026.1
m2pv2: 19.16.27039.0

BUILD_FLAGS_STRING:
haMSb: /DWIN32 /D_WINDOWS /GR /EHsc /O2 /Ob2 /DNDEBUG /machine:x64 /EHsc;/std:c++14
m2pv2: /DWIN32 /D_WINDOWS /GR /EHsc /O2 /Ob2 /DNDEBUG /machine:x64 /EHsc;/std:c++14

HOST_NAME:
haMSb: SIRIUS
m2pv2: SIRIUS
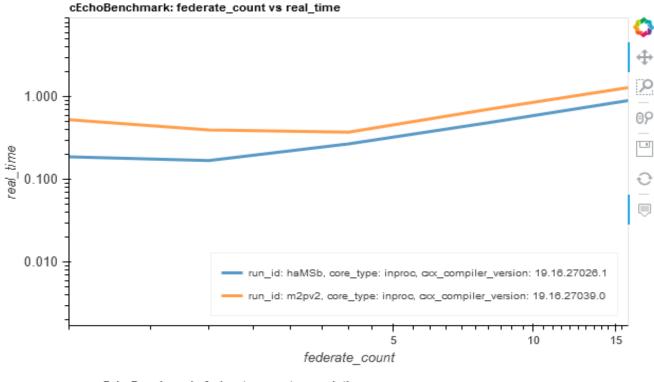
HOST_PROCESSOR:
haMSb: AMD64
m2pv2: AMD64

NUM_CPUS:
haMSb: 32
m2pv2: 32

DATE:
haMSb: 04/28/20 21:21:37
m2pv2: 04/30/20 21:12:48

LIBRARY_BUILD_TYPE:
haMSb: release
m2pv2: release

cEchoBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
— run_id: m2pv2, core_type: inproc, cxx_compiler_version: 19.16.27039.0

cEchoBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
— run_id: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, 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
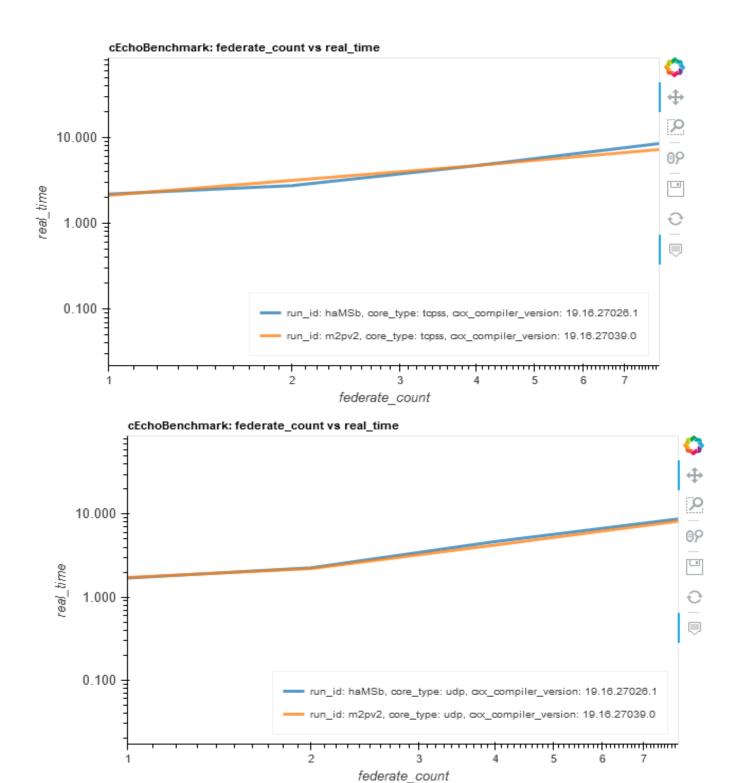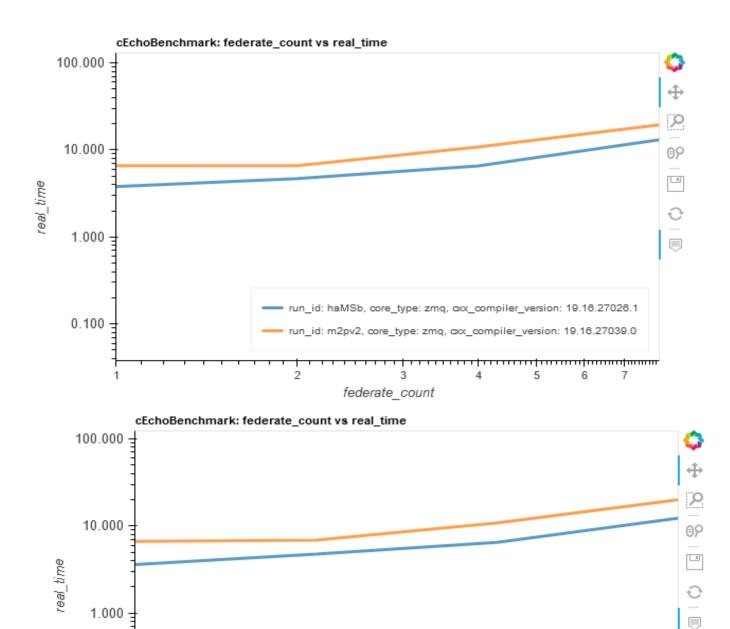run_id: m2pv2, core_type: zmq, cxx_compiler_version: 19.16.27039.0
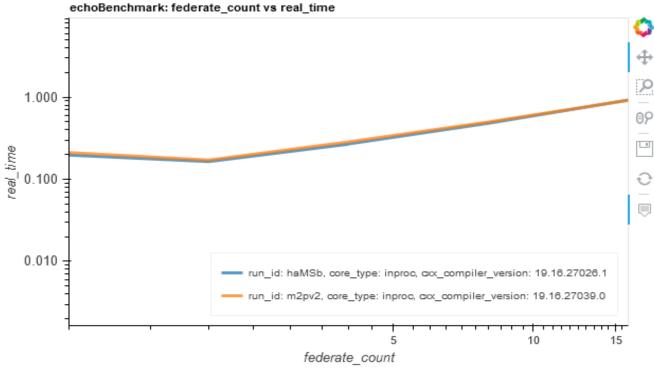

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

echoBenchmark: federate_count vs real_time

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run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, 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: m2pv2, core_type: udp, cxx_compiler_version: 19.16.27039.0

echoBenchmark: federate_count vs real_time
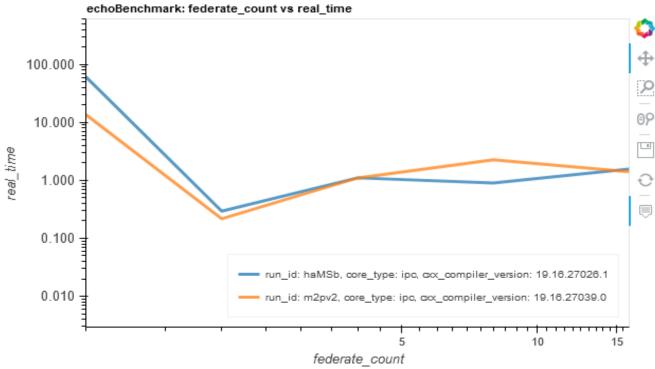
run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmq, cxx_compiler_version: 19.16.27039.0

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

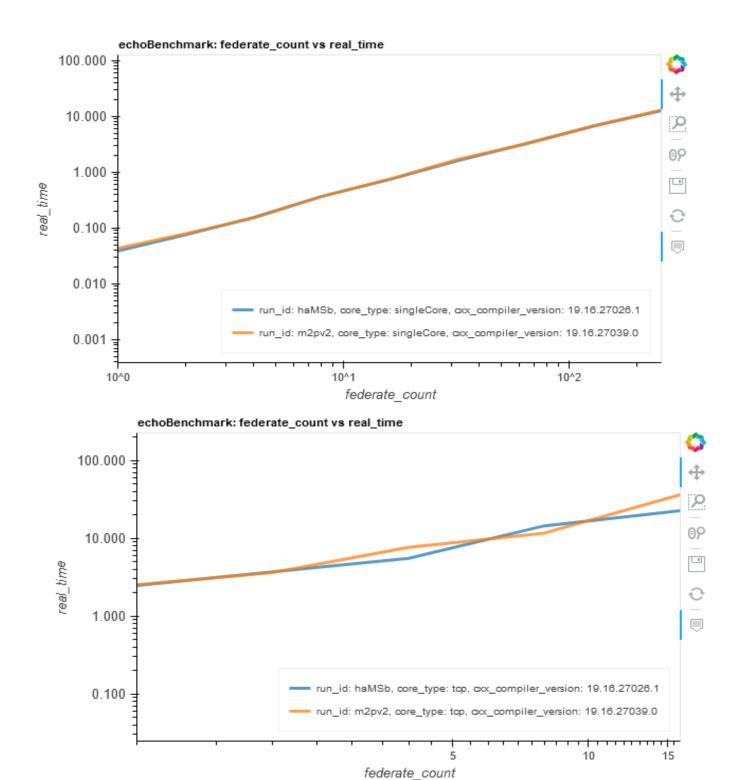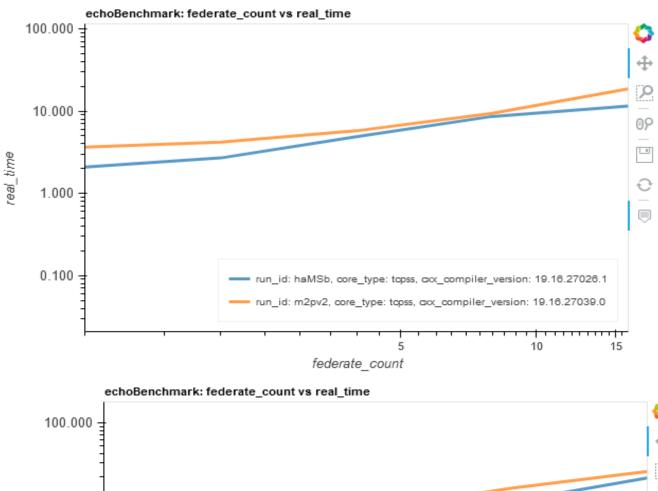**echoMessageBenchmark: federate_count vs real_time**

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: inproc, cxx_compiler_version: 19.16.27039.0

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: ipc, cxx_compiler_version: 19.16.27039.0

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

federate_count

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
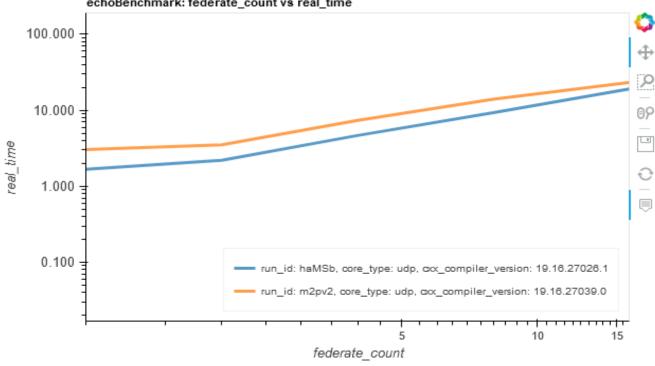run_id: m2pv2, core_type: tcp, cxx_compiler_version: 19.16.27039.0

federate_count

echoMessageBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

x-axis: federate_count
y-axis: real_time

echoMessageBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: udp, cxx_compiler_version: 19.16.27039.0

x-axis: federate_count
y-axis: real_time

echoMessageBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: zmq, cxx_compiler_version: 19.16.27039.0

echoMessageBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: inproc, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

real_time (y-axis): 100.000, 10.000, 1.000, 0.100
federate_count (x-axis): 5, 10, 15, 20, 25, 30

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: tcp, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=dest: federate_count vs real_time

real_time (y-axis): 100.000, 10.000, 1.000, 0.100
federate_count (x-axis): 5, 10, 15, 20, 25, 30

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: inproc, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: tcp, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

real_time vs *federate_count*

filter, fltr_loc=source: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: udp, 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: zmq, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmq, cxx_compiler_version: 19.16.27039.0

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

filter, singleCore: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, 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: m2pv2, core_type: inproc, cxx_compiler_version: 19.16.27039.0

messageLookup, fed_ct=64: interface_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: inproc, cxx_compiler_version: 19.16.27039.0

messageLookup, fed_ct=8: interface_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, 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: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

messageSend, msg_sz=1: message_count vs real_time

messageSend, msg_sz=1: message_count vs real_time

messageSend, msg_sz=1: message_count vs real_time

- run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

messageSend, msg_sz=1: message_count vs real_time

- run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, 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: m2pv2, 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: m2pv2, core_type: udp, cxx_compiler_version: 19.16.27039.0

message_count

messageSend, msg_sz=1: message_count vs real_time

Legend:
- run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: zmq, cxx_compiler_version: 19.16.27039.0

x-axis: message_count
y-axis: real_time

messageSend, msg_sz=1: message_count vs real_time

Legend:
- run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

x-axis: message_count
y-axis: real_time

messageSend, singleCore: message_size vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: inproc, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: ipc, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, 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: m2pv2, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: udp, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmq, cxx_compiler_version: 19.16.27039.0

pholdBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, 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: m2pv2, 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: m2pv2, core_type: ipc, cxx_compiler_version: 19.16.27039.0

real_time

federate_count

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: tcp, cxx_compiler_version: 19.16.27039.0

real_time

federate_count

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

federate_count

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: udp, cxx_compiler_version: 19.16.27039.0

federate_count

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, 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: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

ringMessageBenchmark: federate_count vs real_time

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— run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
— run_id: m2pv2, 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: m2pv2, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

ringMessageBenchmark: federate_count vs real_time

real_time

run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: udp, cxx_compiler_version: 19.16.27039.0

federate_count

ringMessageBenchmark: federate_count vs real_time

real_time

run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmq, cxx_compiler_version: 19.16.27039.0

federate_count

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, 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: m2pv2, core_type: ipc, cxx_compiler_version: 19.16.27039.0

federate_count

real_time

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: singleCore, cxx_compiler_version: 19.16.27039.0

federate_count

real_time

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, 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: m2pv2, core_type: tcpss, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: udp, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: udp, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmq, cxx_compiler_version: 19.16.27026.1
- run_id: m2pv2, core_type: zmq, cxx_compiler_version: 19.16.27039.0

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, cxx_compiler_version: 19.16.27026.1
run_id: m2pv2, core_type: zmqss, cxx_compiler_version: 19.16.27039.0