Cross-run-ID Comparison Report

(differences in bold)

MHZ_PER_CPU:
haMSb: 3394
YL2EQ: 3000

HELICS_VERSION:
haMSb: 2.5.0 (2020
YL2EQ: 2.5.1

GENERATOR:
haMSb: Visual Studio 15 2017
YL2EQ: Visual Studio 16 2019

SYSTEM:
haMSb: Windows
YL2EQ: Windows

SYSTEM_VERSION:
haMSb: 10.0.18363
YL2EQ: 10.0.17763

PLATFORM:
haMSb: x64
YL2EQ: x64

CXX_COMPILER:
haMSb: MSVC
YL2EQ: MSVC

CXX_COMPILER_VERSION:
haMSb: 19.16.27026.1
YL2EQ: 19.26.28806.0

BUILD_FLAGS_STRING:
haMSb: /DWIN32 /D_WINDOWS /GR /EHsc /O2 /Ob2 /DNDEBUG /machine:x64 /EHsc;/std:c++14
YL2EQ: /DWIN32 /D_WINDOWS /GR /EHsc /O2 /Ob2 /DNDEBUG /machine:x64 /EHsc;/std:c++14

HOST_NAME:
haMSb: SIRIUS
YL2EQ: LEAVITT

HOST_PROCESSOR:
haMSb: AMD64
YL2EQ: AMD64

NUM_CPUS:
haMSb: 32
YL2EQ: 36

DATE:
haMSb: 04/28/20 21:21:37
YL2EQ: 06/04/20 09:07:39

LIBRARY_BUILD_TYPE:
haMSb: release
YL2EQ: release

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

real_time

federate_count

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: ipc, mhz_per_cpu: 3000

real_time

federate_count

cEchoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: singleCore, mhz_per_cpu: 3000

Axes: real_time (y-axis), federate_count (x-axis)

cEchoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: tcp, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: tcp, mhz_per_cpu: 3000

Axes: real_time (y-axis), federate_count (x-axis)

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: tcpss, mhz_per_cpu: 3000

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: udp, mhz_per_cpu: 3000

cEchoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmq, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: zmq, mhz_per_cpu: 3000

x-axis: federate_count
y-axis: real_time

cEchoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmqss, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: zmqss, mhz_per_cpu: 3000

x-axis: federate_count
y-axis: real_time

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
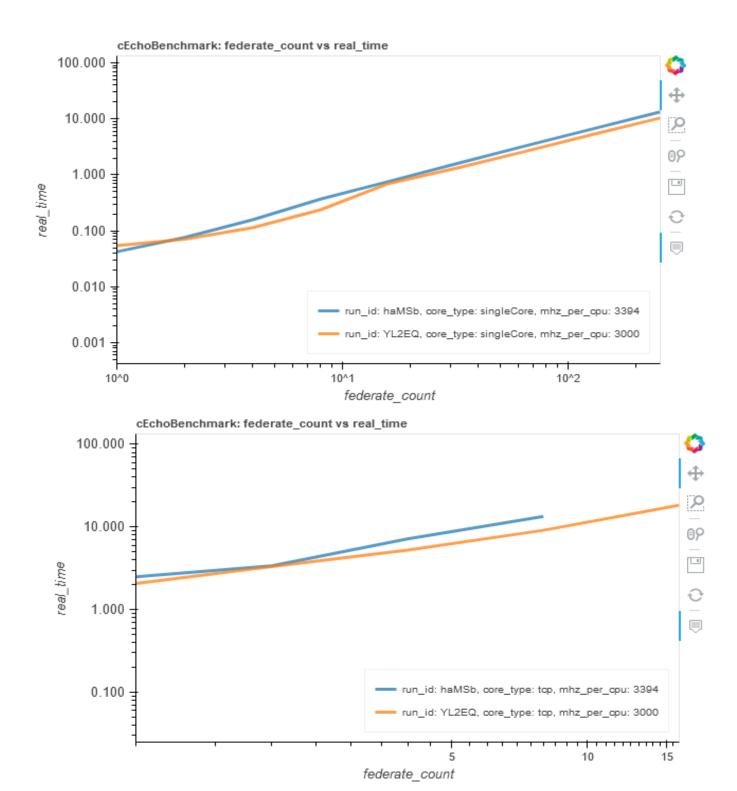run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

echoBenchmark: federate_count vs real_time
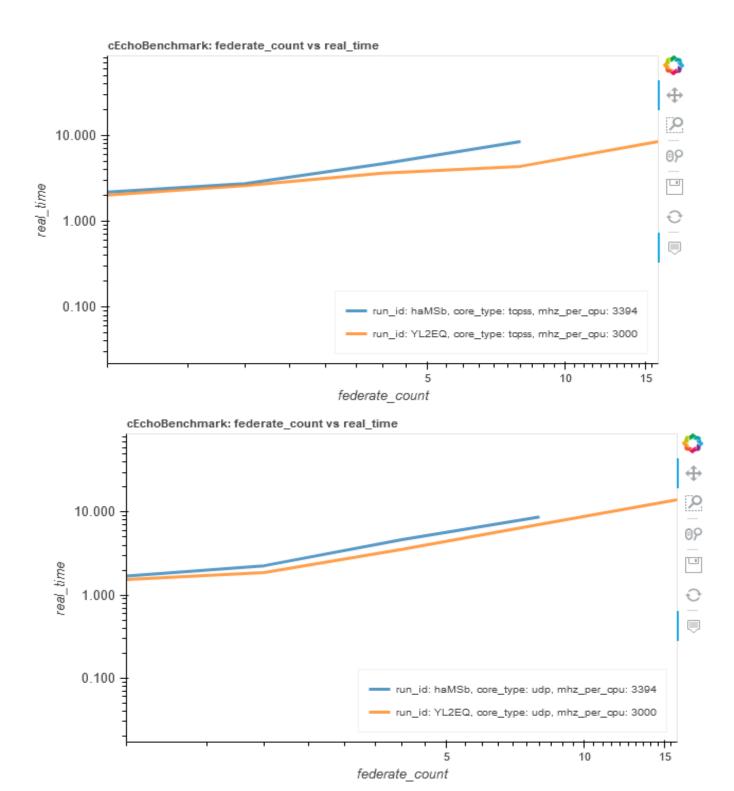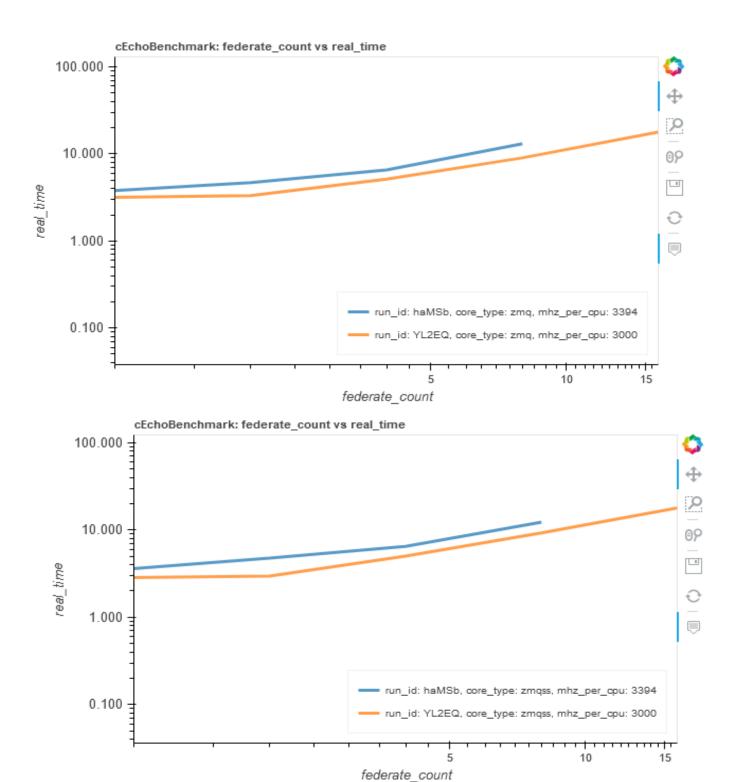

run_id: haMSb, core_type: ipc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: ipc, mhz_per_cpu: 3000

echoBenchmark: federate_count vs real_time

(plot) real_time vs federate_count (log-log scale)

Legend:
- run_id: haMSb, core_type: singleCore, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: singleCore, mhz_per_cpu: 3000

echoBenchmark: federate_count vs real_time

(plot) real_time vs federate_count (log scale y-axis)

Legend:
- run_id: haMSb, core_type: tcp, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: tcp, mhz_per_cpu: 3000

echoBenchmark: federate_count vs real_time

echoBenchmark: federate_count vs real_time

echoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmq, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: zmq, mhz_per_cpu: 3000

echoBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmqss, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: zmqss, mhz_per_cpu: 3000

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

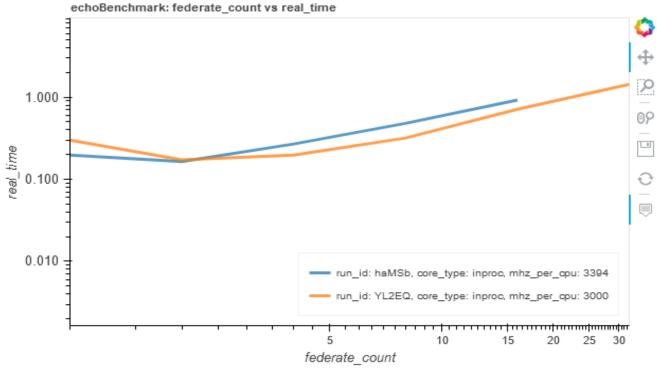**echoMessageBenchmark: federate_count vs real_time**

run_id: haMSb, core_type: ipc, mhz_per_cpu: 3394
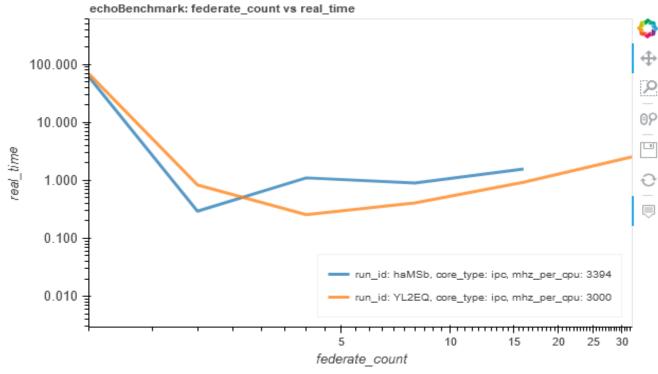run_id: YL2EQ, core_type: ipc, mhz_per_cpu: 3000

echoMessageBenchmark: federate_count vs real_time

echoMessageBenchmark: federate_count vs real_time

echoMessageBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: tcpss, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: tcpss, mhz_per_cpu: 3000

real_time

federate_count

echoMessageBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: udp, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: udp, mhz_per_cpu: 3000

real_time

federate_count

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: zmq, mhz_per_cpu: 3000

echoMessageBenchmark: federate_count vs real_time
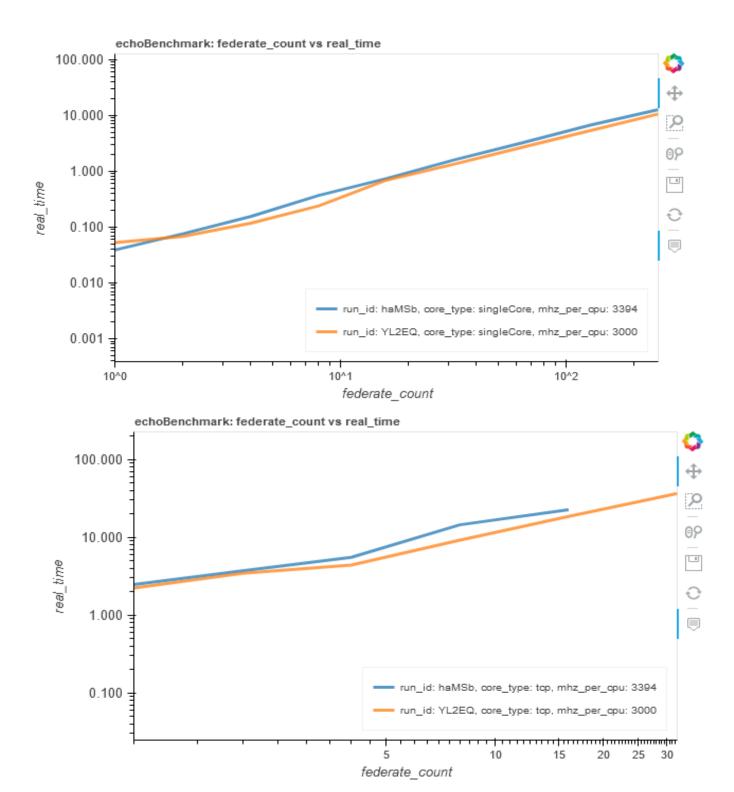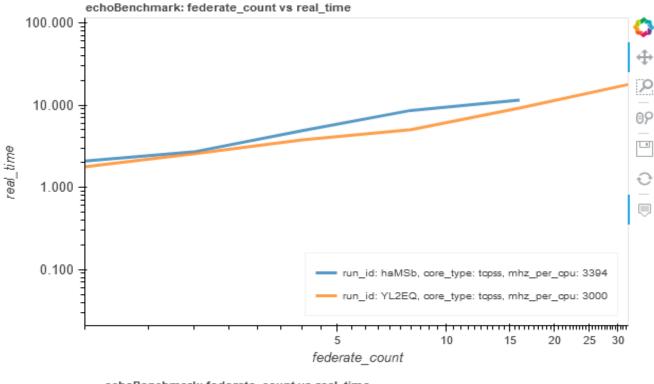

run_id: haMSb, core_type: zmqss, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: zmqss, mhz_per_cpu: 3000

filter, fltr_loc=dest: federate_count vs real_time

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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, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: singleCore, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: singleCore, mhz_per_cpu: 3000

filter, fltr_loc=source: federate_count vs real_time
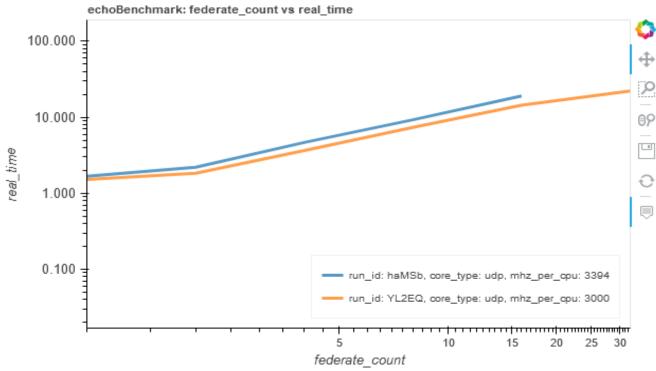

Legend:
- run_id: haMSb, core_type: zmq, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: zmq, mhz_per_cpu: 3000

federate_count (x-axis), *real_time* (y-axis)

filter, fltr_loc=source: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: zmqss, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: zmqss, mhz_per_cpu: 3000

federate_count (x-axis), *real_time* (y-axis)

filter, singleCore: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: singleCore, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: singleCore, mhz_per_cpu: 3000

messageLookup, fed_ct=2: interface_count vs real_time

Legend:
- run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

messageLookup, fed_ct=64: interface_count vs real_time

run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

messageLookup, fed_ct=8: interface_count vs real_time

run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: ipc, mhz_per_cpu: 3000

ringBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: tcp, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: tcp, mhz_per_cpu: 3000

ringBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: tcpss, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: tcpss, mhz_per_cpu: 3000

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: udp, mhz_per_cpu: 3000

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: zmq, mhz_per_cpu: 3000

ringBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: zmqss, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: zmqss, mhz_per_cpu: 3000

ringMessageBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
- run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: ipc, mhz_per_cpu: 3000

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: tcp, mhz_per_cpu: 3000

ringMessageBenchmark: federate_count vs real_time

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ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: zmq, mhz_per_cpu: 3000

ringMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: zmqss, mhz_per_cpu: 3000

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: inproc, mhz_per_cpu: 3000

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, mhz_per_cpu: 3394
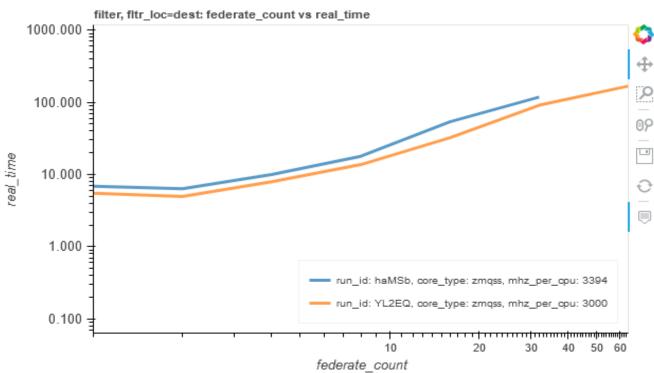run_id: YL2EQ, core_type: ipc, mhz_per_cpu: 3000

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: singleCore, mhz_per_cpu: 3000

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: tcp, mhz_per_cpu: 3000

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: tcpss, mhz_per_cpu: 3000

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: udp, mhz_per_cpu: 3000

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: zmq, mhz_per_cpu: 3000

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, mhz_per_cpu: 3394
run_id: YL2EQ, core_type: zmqss, mhz_per_cpu: 3000