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:
```
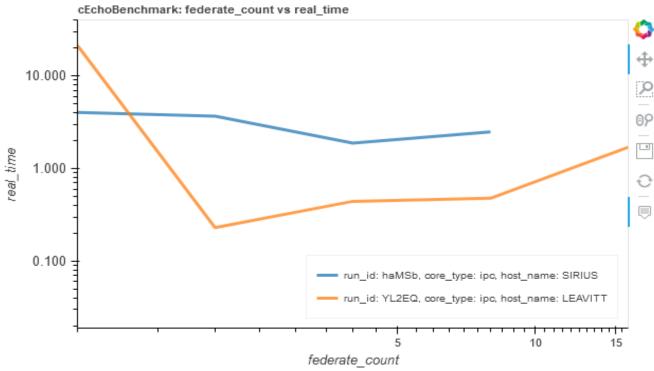**haMSb: 32**
YL2EQ: 36

```
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, host_name: SIRIUS
run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, host_name: SIRIUS
run_id: YL2EQ, core_type: ipc, host_name: LEAVITT

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, host_name: SIRIUS
run_id: YL2EQ, core_type: singleCore, host_name: LEAVITT

cEchoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, host_name: SIRIUS
run_id: YL2EQ, core_type: tcp, host_name: LEAVITT

cEchoBenchmark: federate_count vs real_time

cEchoBenchmark: federate_count vs real_time

cEchoBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: zmq, host_name: SIRIUS
- run_id: YL2EQ, core_type: zmq, host_name: LEAVITT

cEchoBenchmark: federate_count vs real_time

- run_id: haMSb, core_type: zmqss, host_name: SIRIUS
- run_id: YL2EQ, core_type: zmqss, host_name: LEAVITT

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, host_name: SIRIUS
run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, host_name: SIRIUS
run_id: YL2EQ, core_type: ipc, host_name: LEAVITT

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, host_name: SIRIUS
run_id: YL2EQ, core_type: singleCore, host_name: LEAVITT

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, host_name: SIRIUS
run_id: YL2EQ, core_type: tcp, host_name: LEAVITT

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, host_name: SIRIUS
run_id: YL2EQ, core_type: tcpss, host_name: LEAVITT

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, host_name: SIRIUS
run_id: YL2EQ, core_type: udp, host_name: LEAVITT

echoBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, host_name: SIRIUS
run_id: YL2EQ, core_type: zmq, host_name: LEAVITT

echoBenchmark: federate_count vs real_time
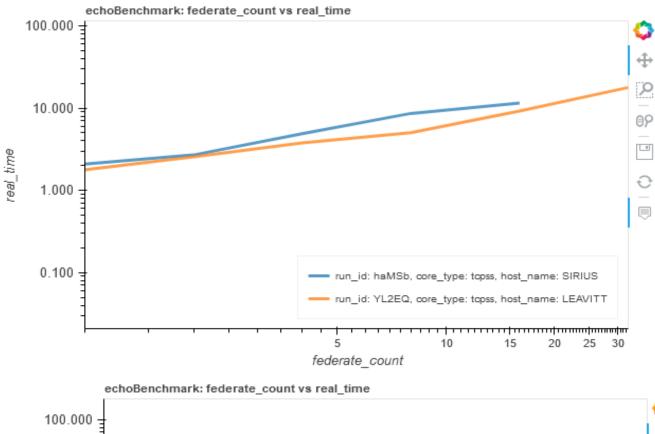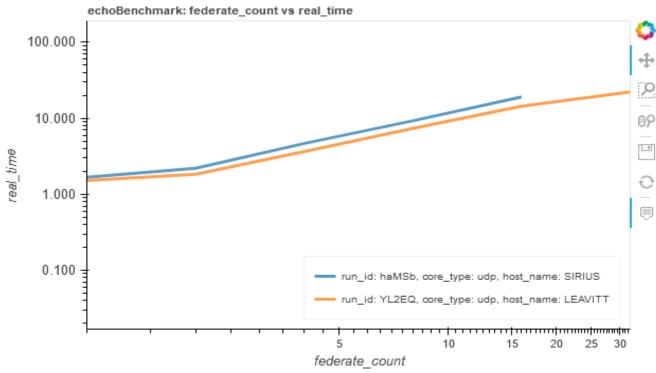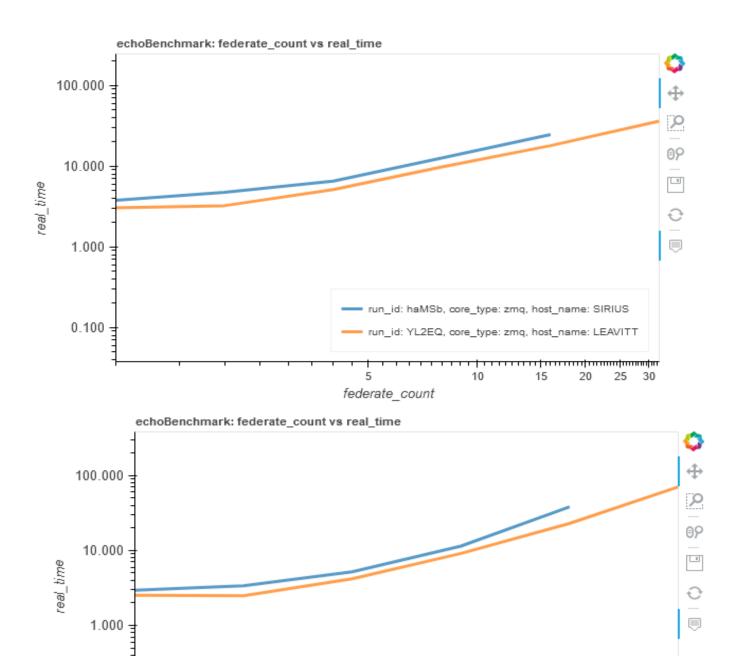

run_id: haMSb, core_type: zmqss, host_name: SIRIUS
run_id: YL2EQ, core_type: zmqss, host_name: LEAVITT

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, host_name: SIRIUS
run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

echoMessageBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, host_name: SIRIUS
run_id: YL2EQ, core_type: ipc, host_name: LEAVITT

echoMessageBenchmark: federate_count vs real_time

echoMessageBenchmark: federate_count vs real_time

echoMessageBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: tcpss, host_name: SIRIUS
- run_id: YL2EQ, core_type: tcpss, host_name: LEAVITT

X-axis: federate_count
Y-axis: real_time

echoMessageBenchmark: federate_count vs real_time

Legend:
- run_id: haMSb, core_type: udp, host_name: SIRIUS
- run_id: YL2EQ, core_type: udp, host_name: LEAVITT

X-axis: federate_count
Y-axis: real_time

echoMessageBenchmark: federate_count vs real_time

echoMessageBenchmark: federate_count vs real_time

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: inproc, host_name: SIRIUS
run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

filter, fltr_loc=dest: federate_count vs real_time

run_id: haMSb, core_type: singleCore, host_name: SIRIUS
run_id: YL2EQ, core_type: singleCore, host_name: LEAVITT

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, host_name: SIRIUS
run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: singleCore, host_name: SIRIUS
run_id: YL2EQ, core_type: singleCore, host_name: LEAVITT

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: zmq, host_name: SIRIUS
run_id: YL2EQ, core_type: zmq, host_name: LEAVITT

federate_count

filter, fltr_loc=source: federate_count vs real_time

run_id: haMSb, core_type: zmqss, host_name: SIRIUS
run_id: YL2EQ, core_type: zmqss, host_name: LEAVITT

federate_count

filter, singleCore: federate_count vs real_time

messageLookup, fed_ct=2: interface_count vs real_time

messageLookup, fed_ct=64: interface_count vs real_time

run_id: haMSb, core_type: inproc, host_name: SIRIUS
run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

messageLookup, fed_ct=8: interface_count vs real_time

run_id: haMSb, core_type: inproc, host_name: SIRIUS
run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

ringBenchmark: federate_count vs real_time

ringBenchmark: federate_count vs real_time

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, host_name: SIRIUS
run_id: YL2EQ, core_type: tcp, host_name: LEAVITT

ringBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, host_name: SIRIUS
run_id: YL2EQ, core_type: tcpss, host_name: LEAVITT

ringBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: udp, host_name: SIRIUS
— run_id: YL2EQ, core_type: udp, host_name: LEAVITT

ringBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: zmq, host_name: SIRIUS
— run_id: YL2EQ, core_type: zmq, host_name: LEAVITT

ringBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: zmqss, host_name: SIRIUS
— run_id: YL2EQ, core_type: zmqss, host_name: LEAVITT

ringMessageBenchmark: federate_count vs real_time

— run_id: haMSb, core_type: inproc, host_name: SIRIUS
— run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

ringMessageBenchmark: federate_count vs real_time

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ringMessageBenchmark: federate_count vs real_time

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: inproc, host_name: SIRIUS
run_id: YL2EQ, core_type: inproc, host_name: LEAVITT

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: ipc, host_name: SIRIUS
run_id: YL2EQ, core_type: ipc, host_name: LEAVITT

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: singleCore, host_name: SIRIUS
run_id: YL2EQ, core_type: singleCore, host_name: LEAVITT

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcp, host_name: SIRIUS
run_id: YL2EQ, core_type: tcp, host_name: LEAVITT

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: tcpss, host_name: SIRIUS
run_id: YL2EQ, core_type: tcpss, host_name: LEAVITT

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: udp, host_name: SIRIUS
run_id: YL2EQ, core_type: udp, host_name: LEAVITT

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmq, host_name: SIRIUS
run_id: YL2EQ, core_type: zmq, host_name: LEAVITT

timingBenchmark: federate_count vs real_time

run_id: haMSb, core_type: zmqss, host_name: SIRIUS
run_id: YL2EQ, core_type: zmqss, host_name: LEAVITT