Cross-run-ID Comparison Report

(differences in bold)

DATE:
Zu60n: 12/02/19 10:36:33
aUZF6: 12/02/19 15:33:17

HELICS_VERSION:
Zu60n: 2.3.1
aUZF6: 2.3.1

GENERATOR:
Zu60n: Visual Studio 16 2019
aUZF6: Visual Studio 15 2017

SYSTEM:
Zu60n: Windows
aUZF6: Windows

SYSTEM_VERSION:
Zu60n: 10.0.17763
aUZF6: 10.0.16299

PLATFORM:
Zu60n: x64
aUZF6: x64

CXX_COMPILER:
Zu60n: MSVC
aUZF6: MSVC

CXX_COMPILER_VERSION:
Zu60n: 19.23.28106.4
aUZF6: 19.12.25835.0

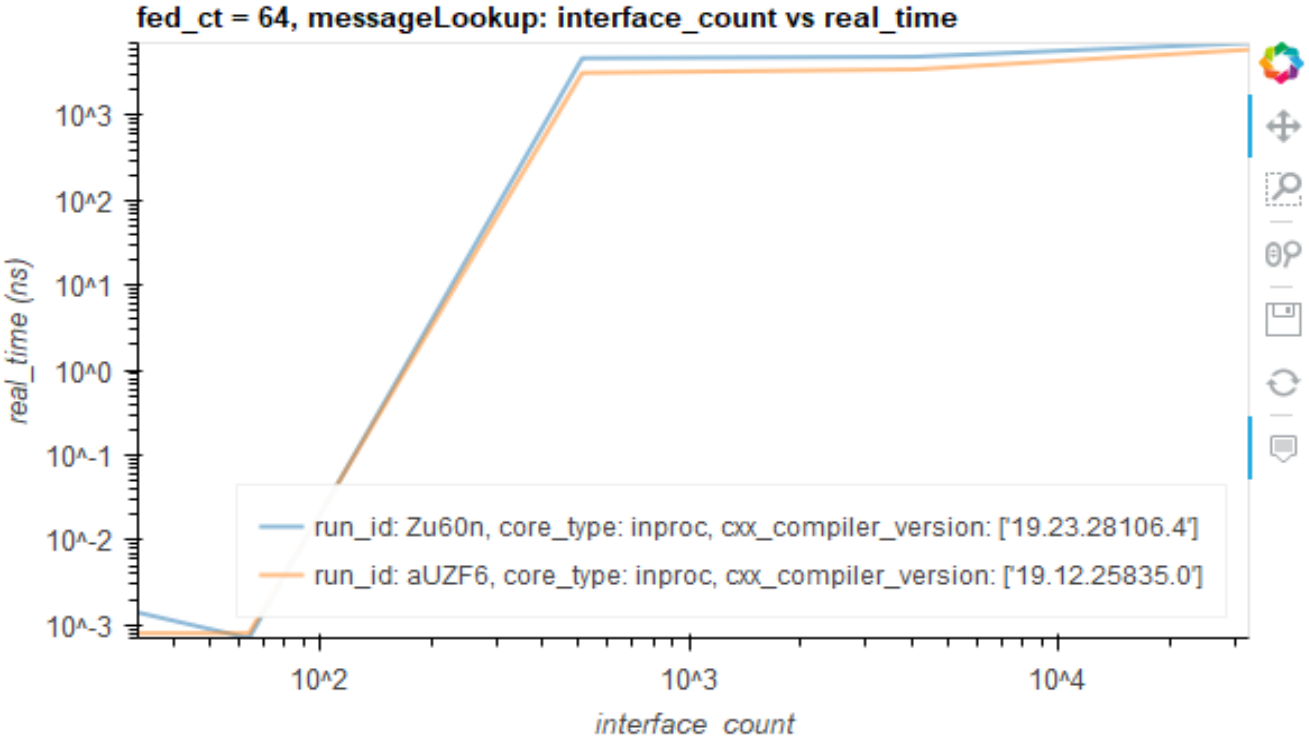
BUILD_FLAGS_STRING:
Zu60n: /DWIN32 /D_WINDOWS /W3 /GR /EHsc /MD /O2 /Ob2 /DNDEBUG /machine:x64 /EHsc;/std:c++14
aUZF6: /DWIN32 /D_WINDOWS /W3 /GR /EHsc /MD /O2 /Ob2 /DNDEBUG /machine:x64 /EHsc;/std:c++14

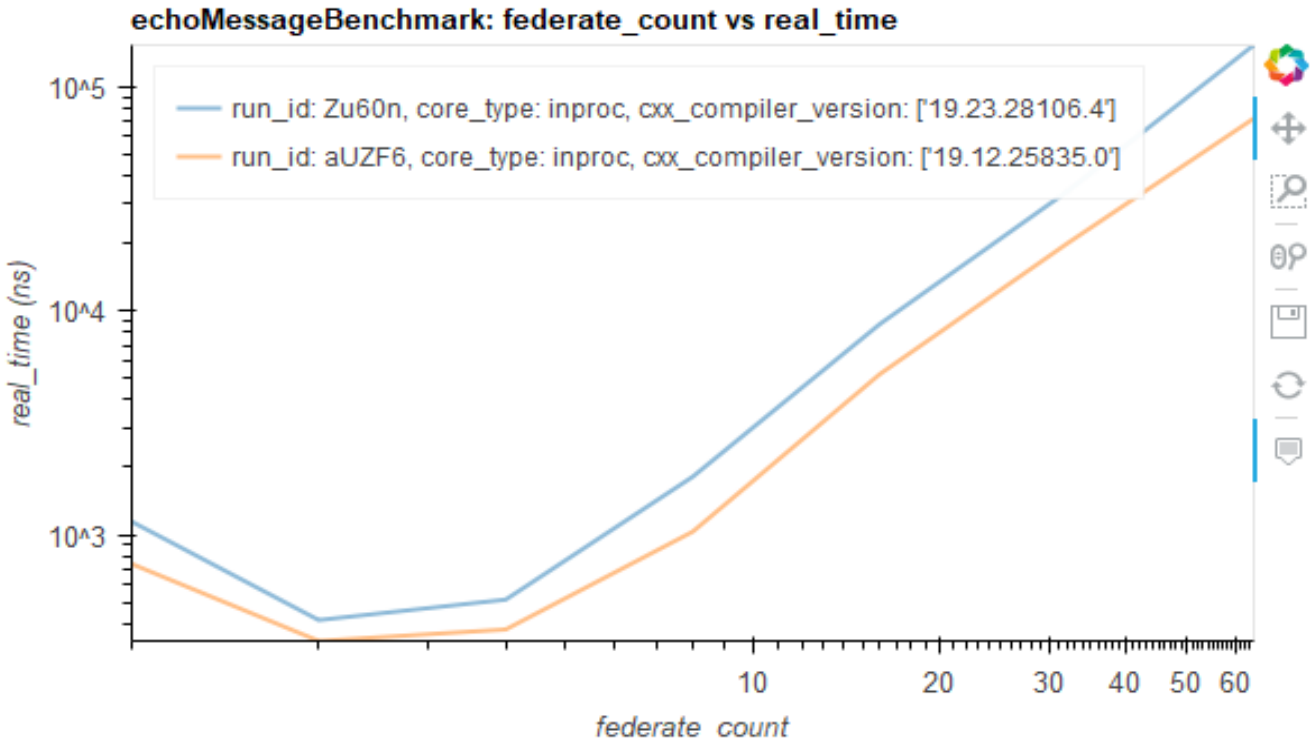
HOST_NAME:
Zu60n: HERSCHEL
aUZF6: STEADMAN

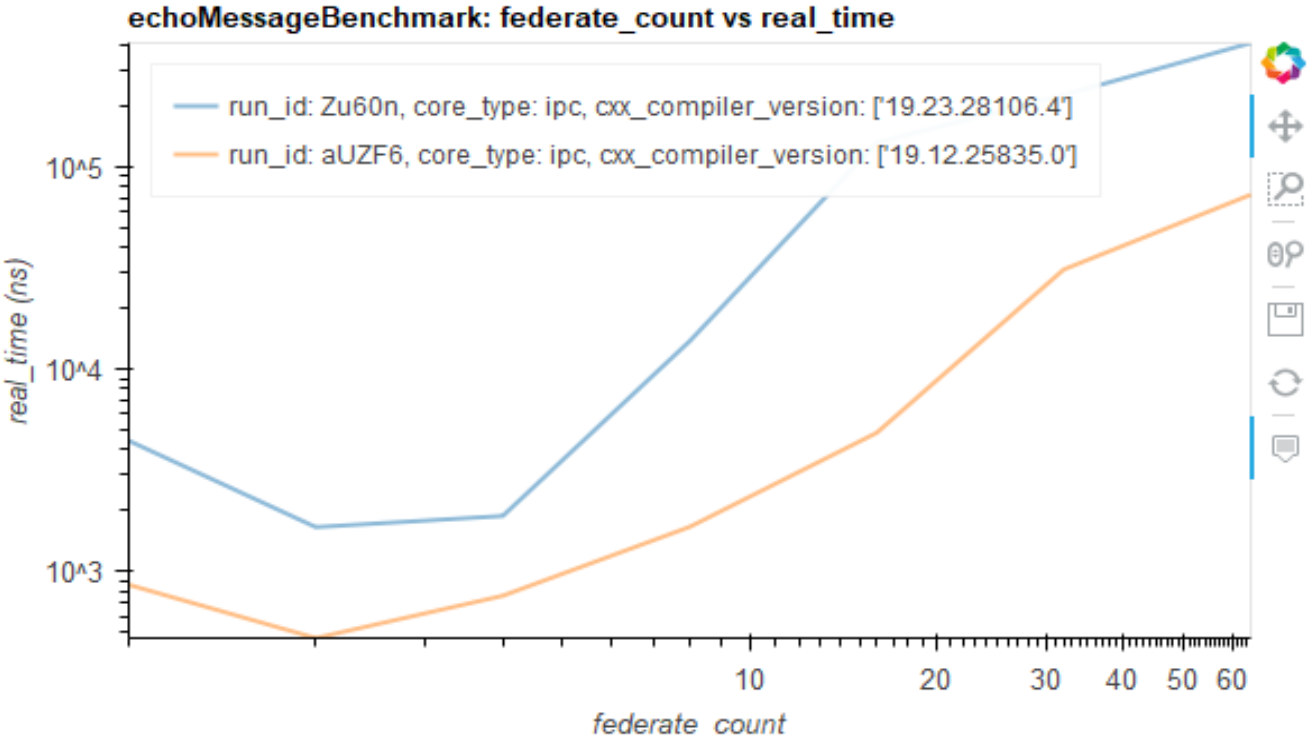
HOST_PROCESSOR:
Zu60n: AMD64
aUZF6: AMD64

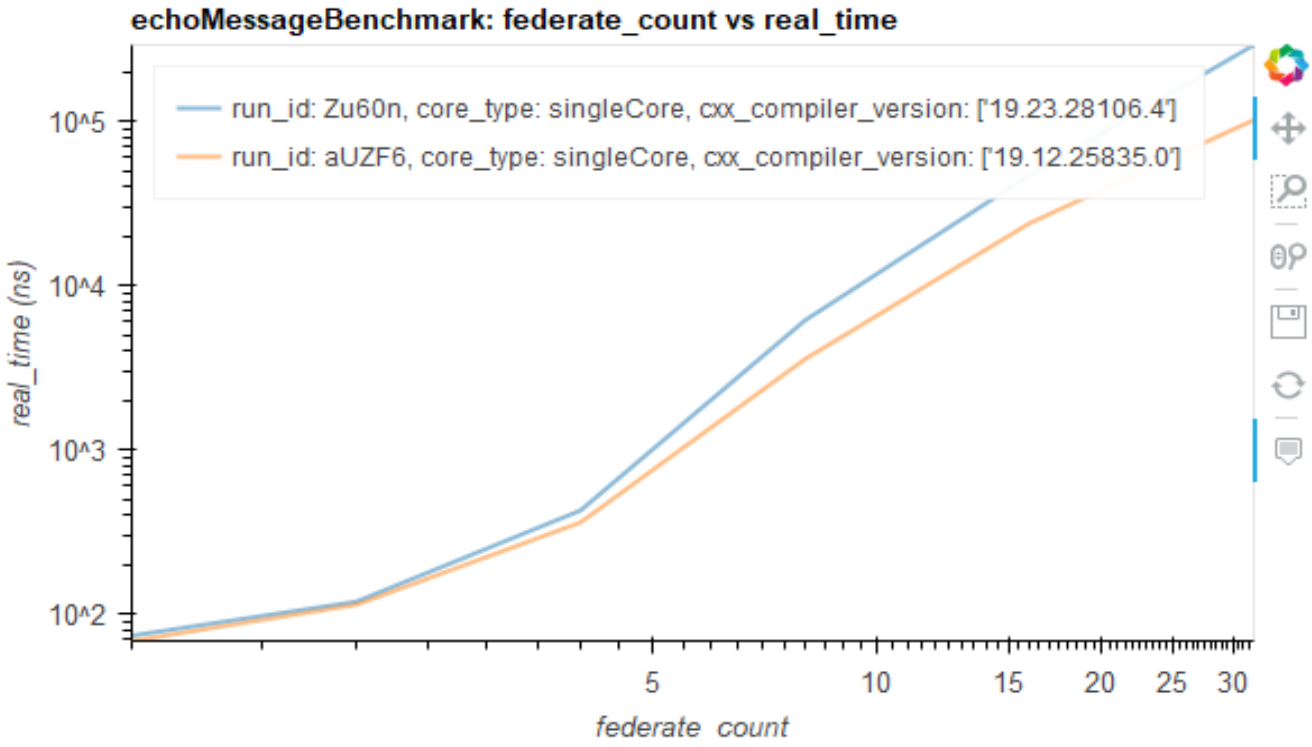
NUM_CPUS:
Zu60n: 8
aUZF6: 8

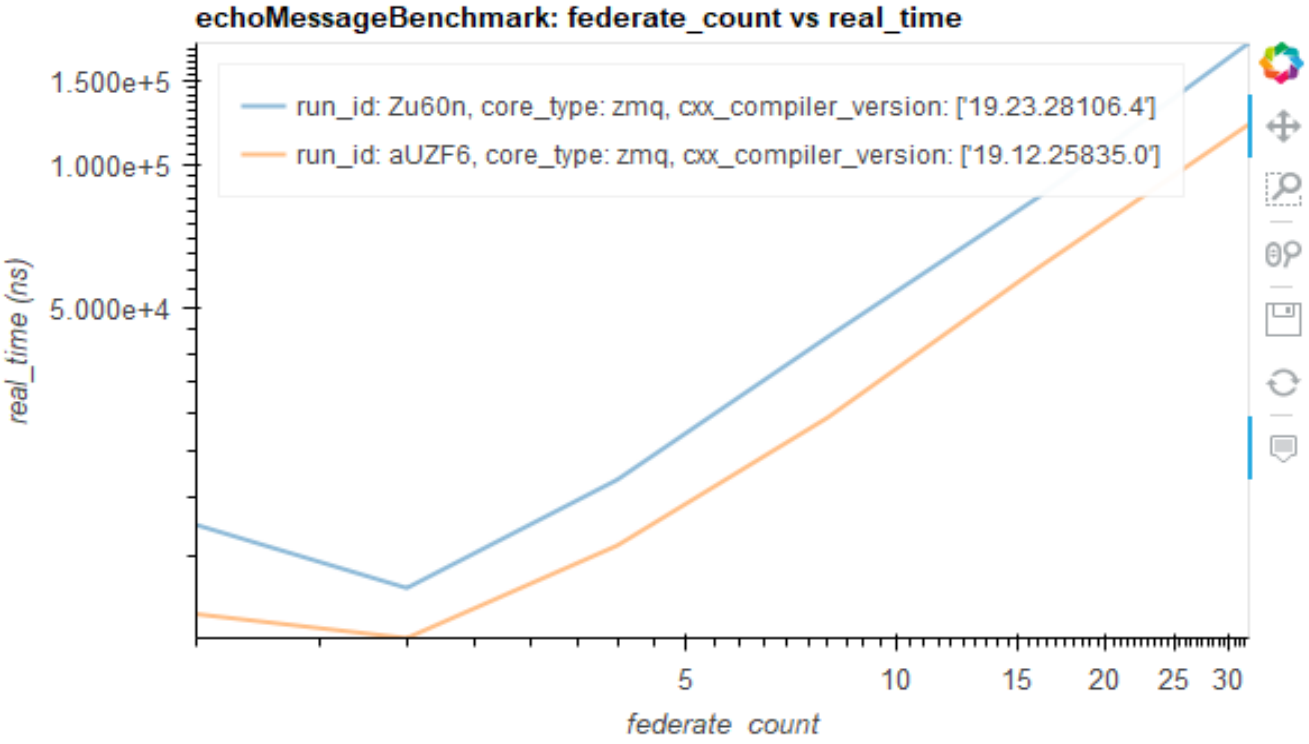
MHZ_PER_CPU:
Zu60n: 2295
aUZF6: 3492

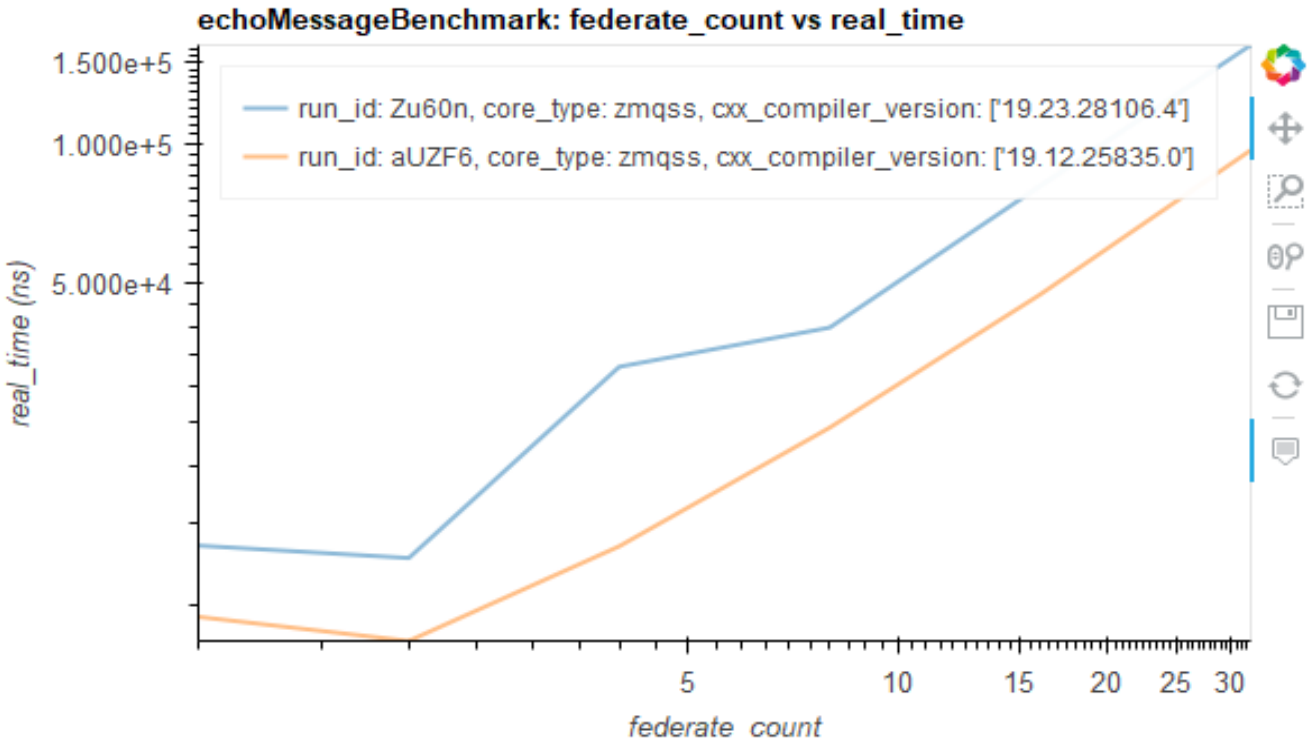

fed_ct = 64, messageLookup: interface_count vs real_time
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
real_time (ns)
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
10^2
10^3
10^4
interface_count

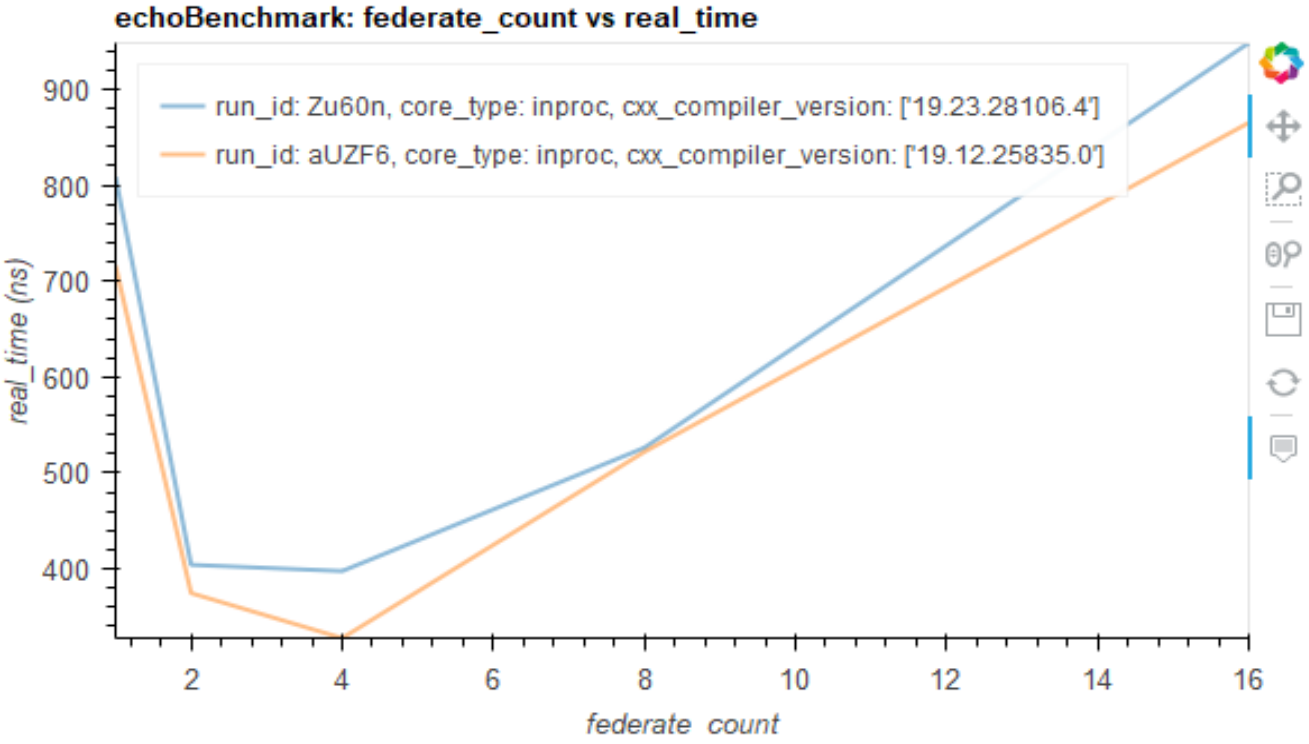

echoMessageBenchmark: federate_count vs real_time
10^5
10^4
10^3
real_time (ns)
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
10
20
30
40
50
60
federate_count

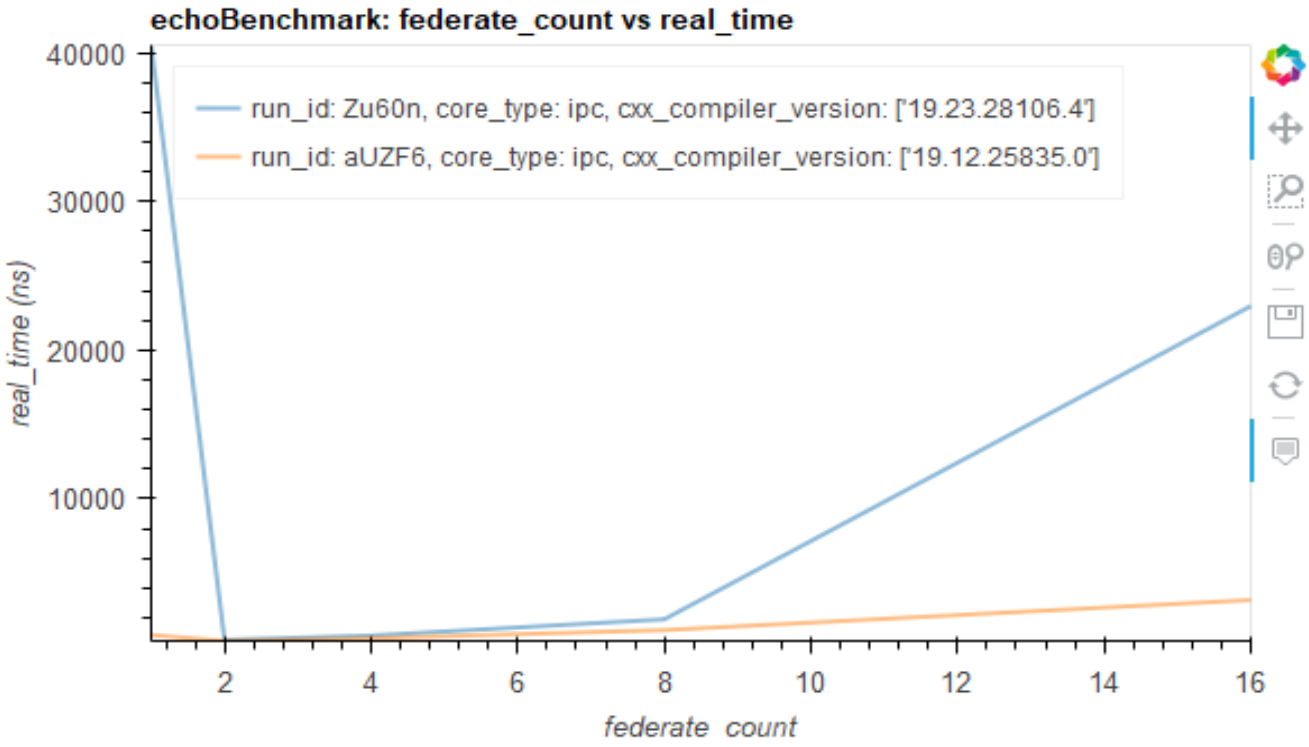

echoMessageBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: ipc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: ipc, cxx_compiler_version: ['19.12.25835.0']
10^5
10^4
10^3
real_time (ns)
10
20
30
40
50
60
federate_count

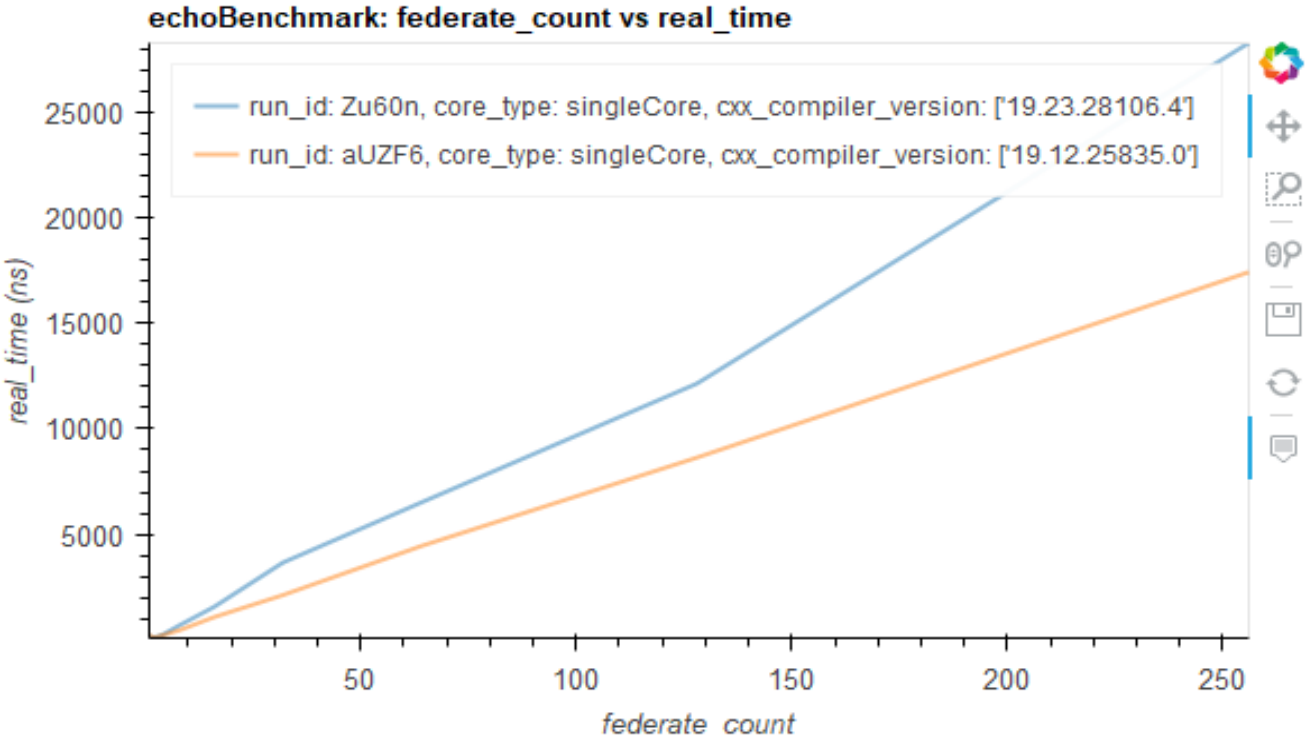

echoMessageBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: singleCore, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: singleCore, cxx_compiler_version: ['19.12.25835.0']
10^5
10^4
10^3
10^2
real_time (ns)
5
10
15
20
25
30
federate_count

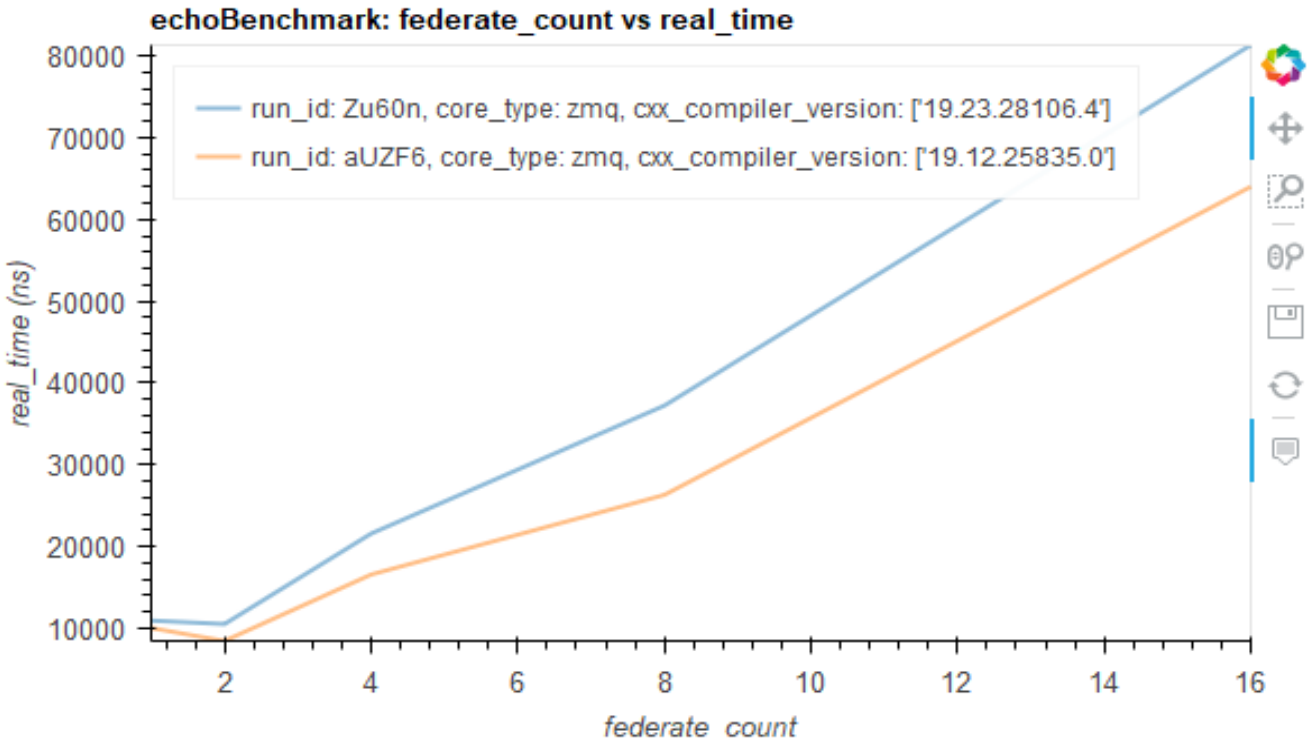

echoMessageBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: zmq, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmq, cxx_compiler_version: ['19.12.25835.0']
1.500e+5
1.000e+5
5.000e+4
real_time (ns)
5
10
15
20
25
30
federate count

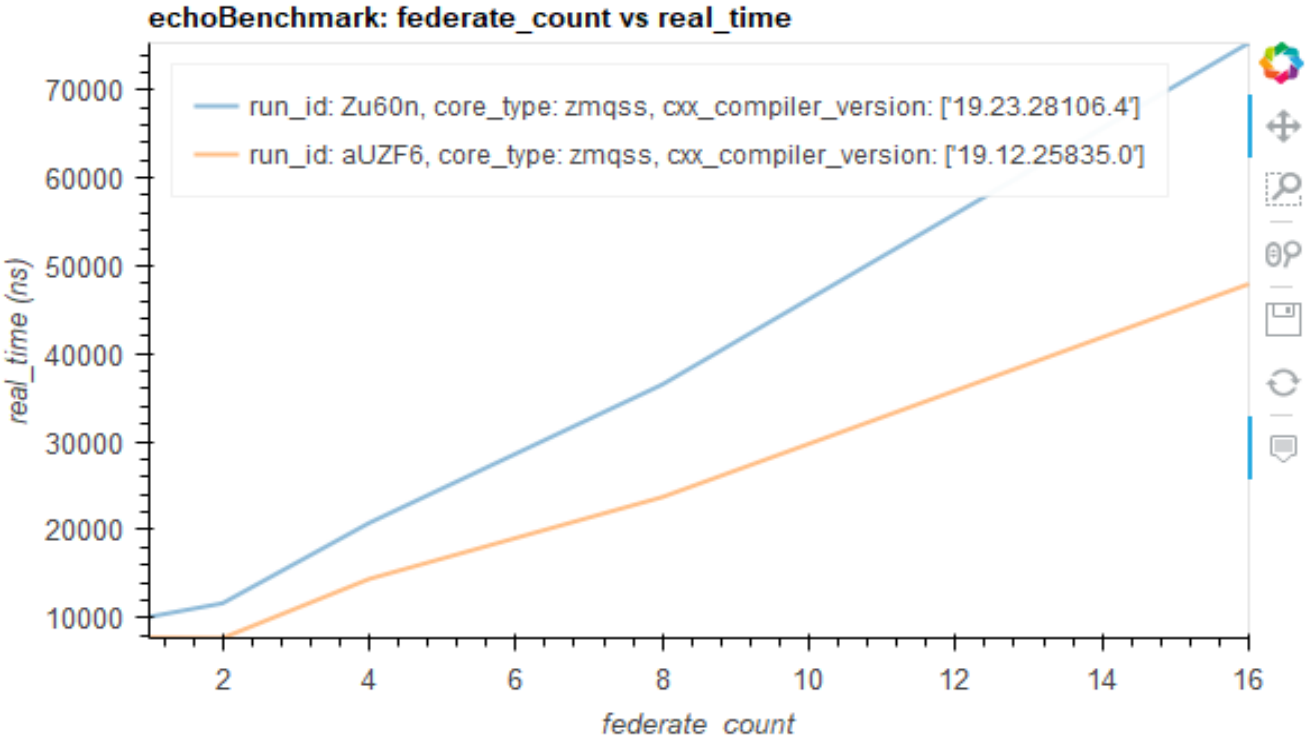

echoMessageBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: zmqss, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmqss, cxx_compiler_version: ['19.12.25835.0']
1.500e+5
1.000e+5
5.000e+4
real_time (ns)
5
10
15
20
25
30
federate count

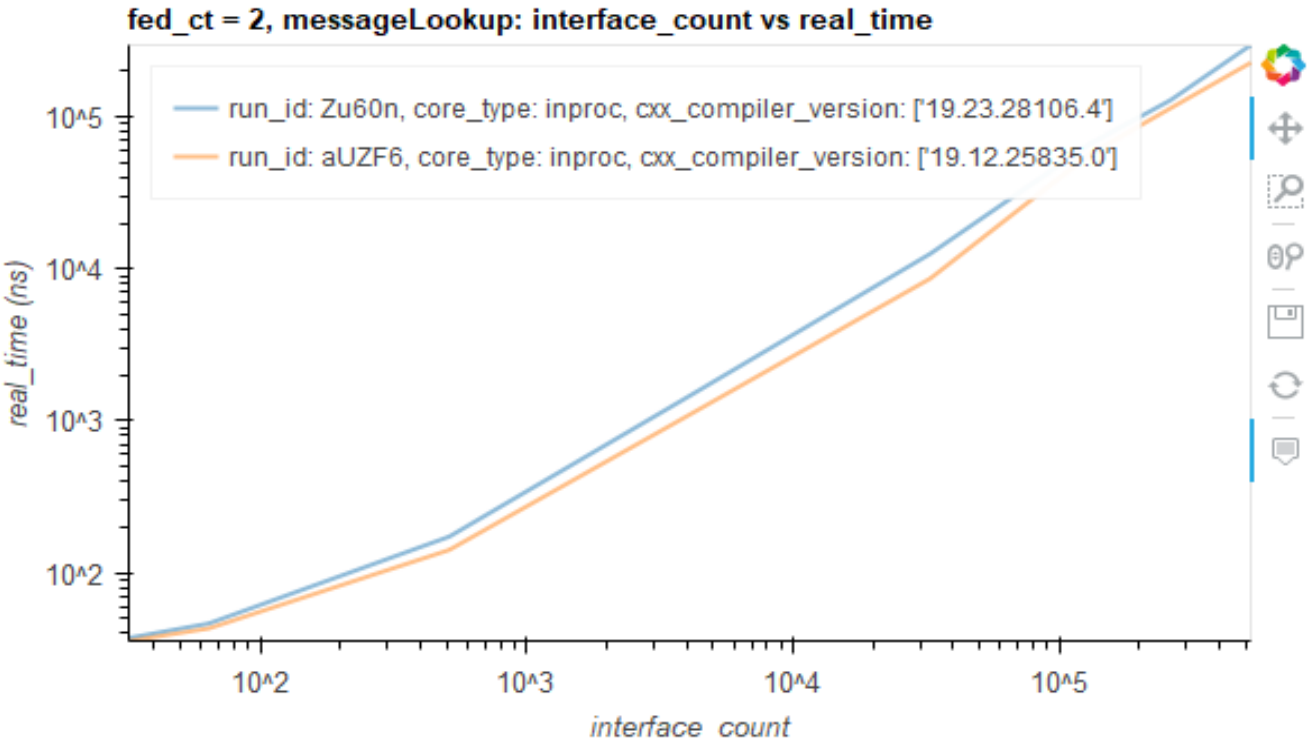

echoBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
federate_count

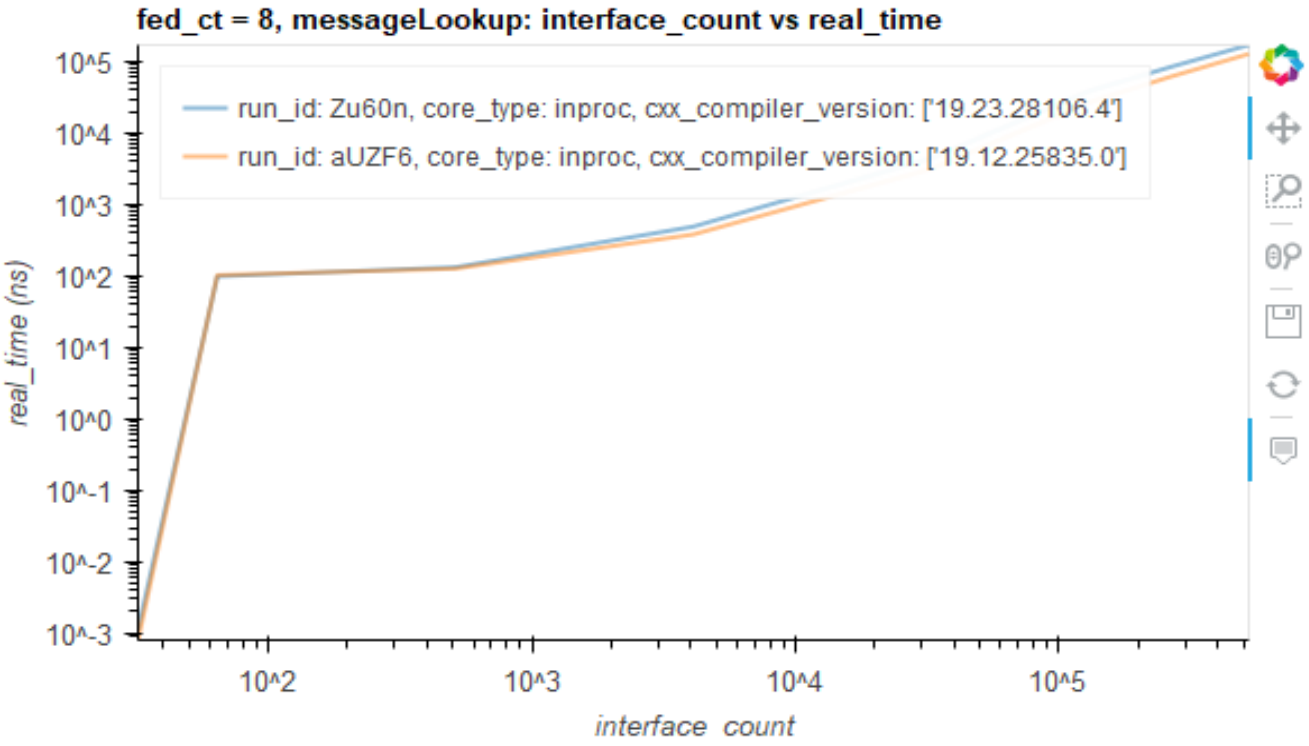

echoBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: ipc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: ipc, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
federate_count

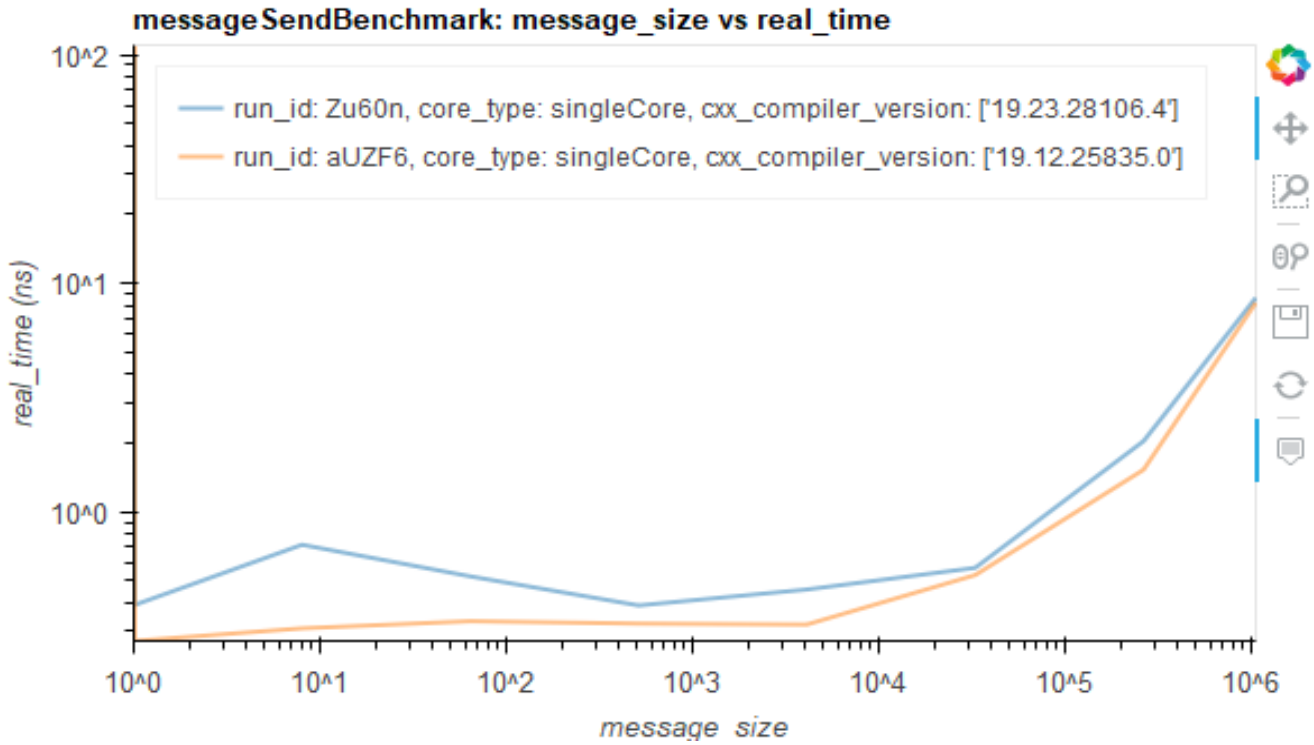

echoBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: singleCore, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: singleCore, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
25000
20000
15000
10000
5000
50
100
150
200
250
federate_count

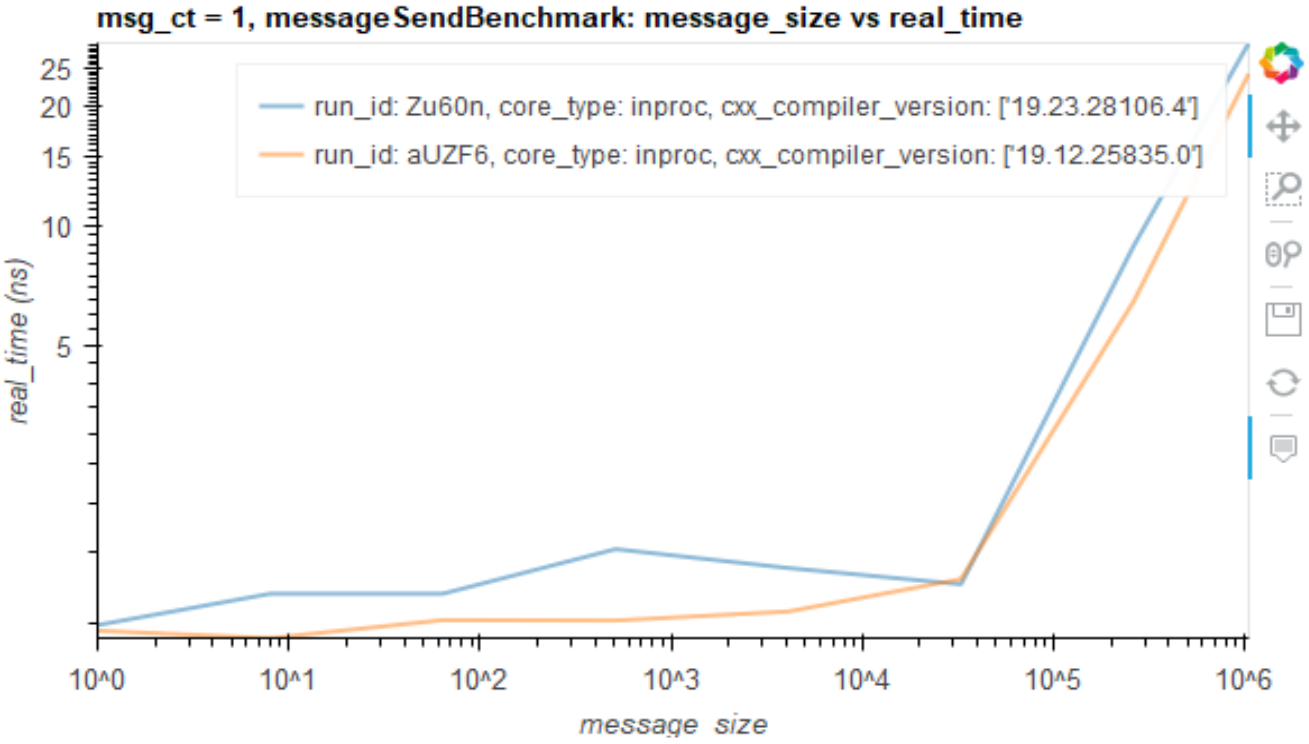

echoBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: zmq, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmq, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
80000
70000
60000
50000
40000
30000
20000
10000
2
4
6
8
10
12
14
16
federate_count

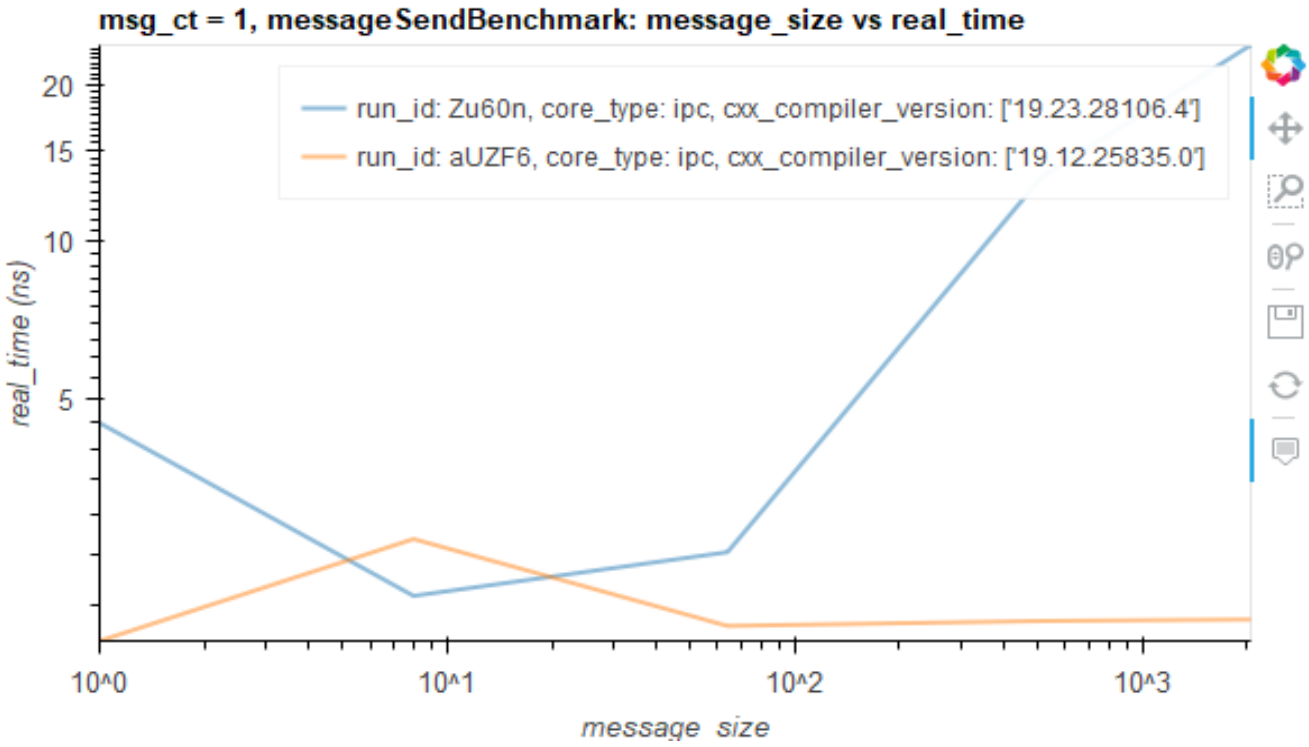

echoBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: zmqss, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmqss, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
70000
60000
50000
40000
30000
20000
10000
2
4
6
8
10
12
14
16
federate_count

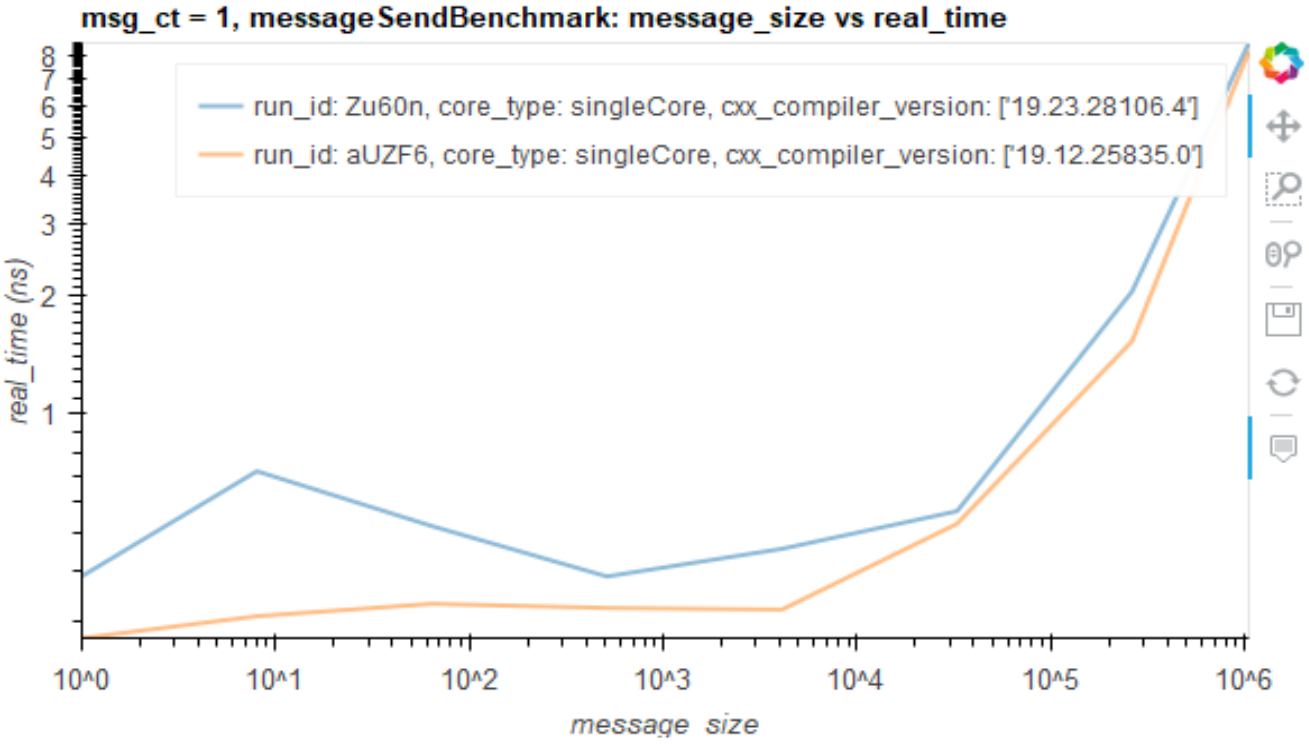

fed_ct = 2, messageLookup: interface_count vs real_time
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
10^5
10^4
10^3
10^2
10^2
10^3
10^4
10^5
interface_count

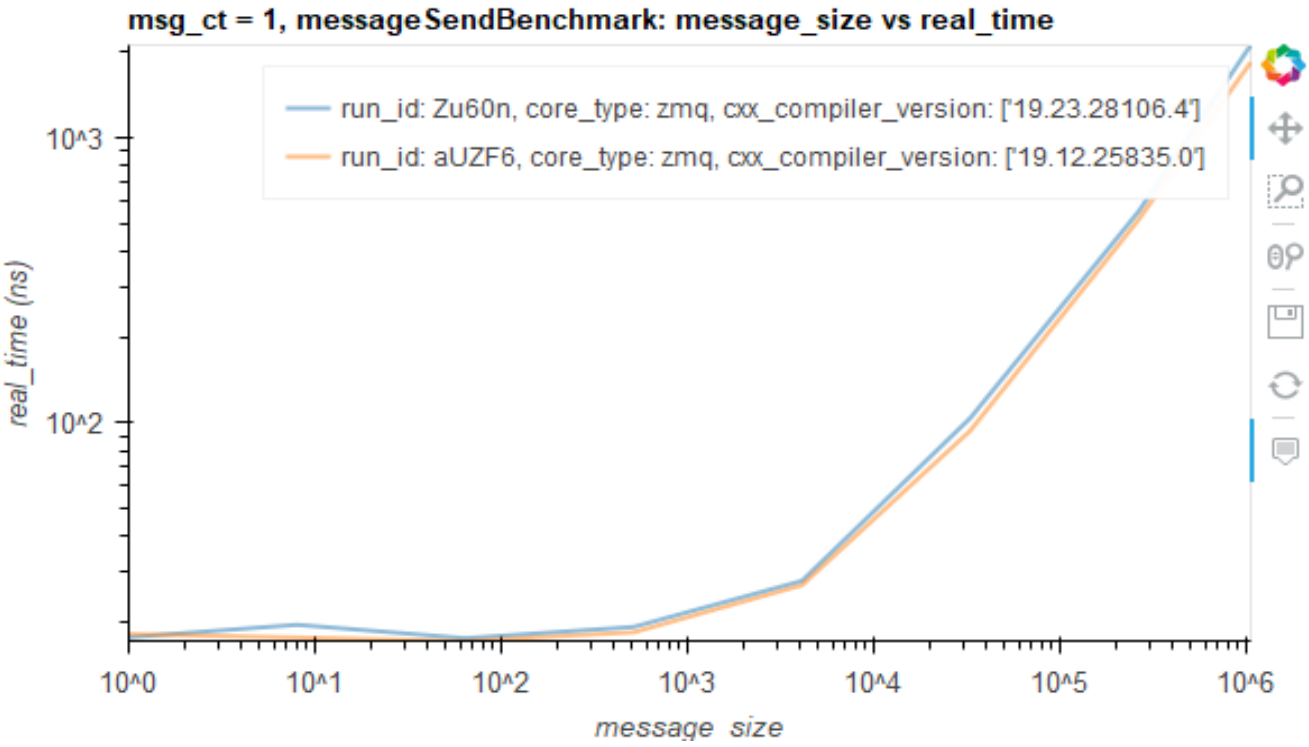

fed_ct = 8, messageLookup: interface_count vs real_time
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
10^5
10^4
10^3
10^2
10^1
10^0
10^-1
10^-2
10^-3
10^2
10^3
10^4
10^5
interface_count

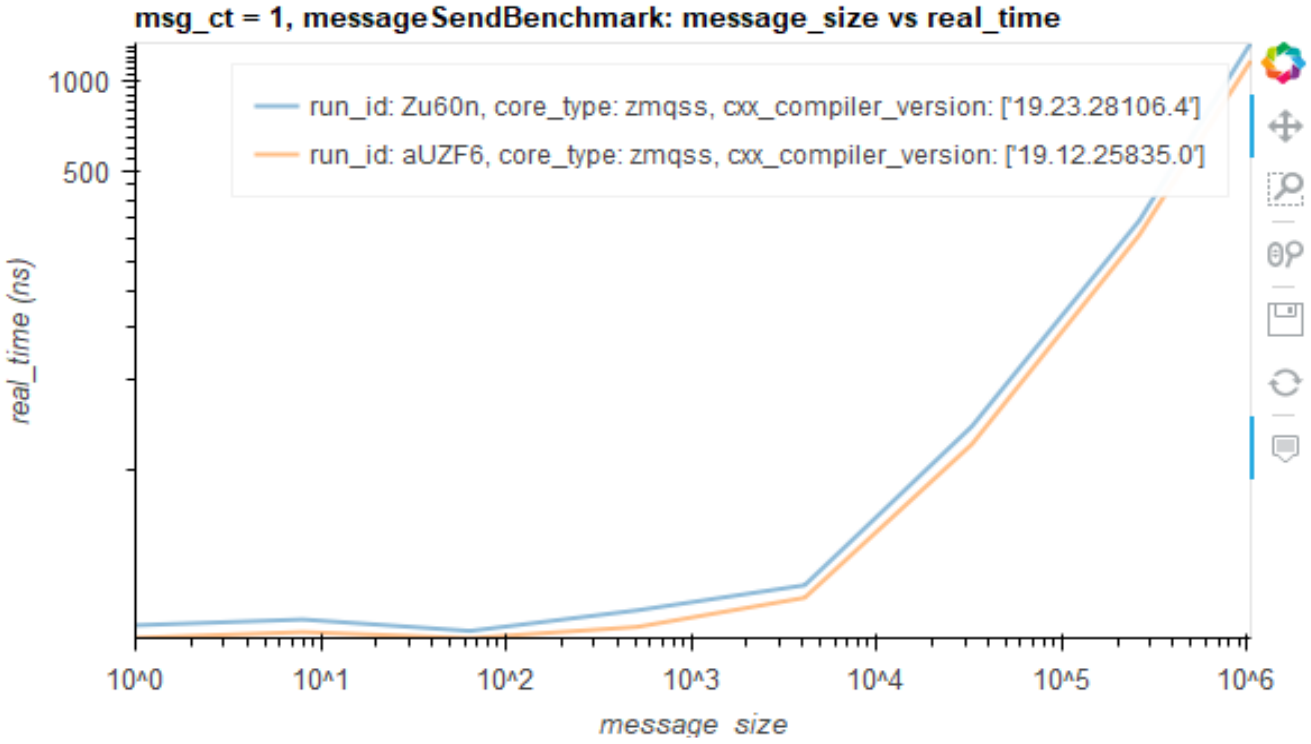

messageSendBenchmark: message_size vs real_time
run_id: Zu60n, core_type: singleCore, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: singleCore, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
10^2
10^1
10^0
10^0
10^1
10^2
10^3
10^4
10^5
10^6
message_size

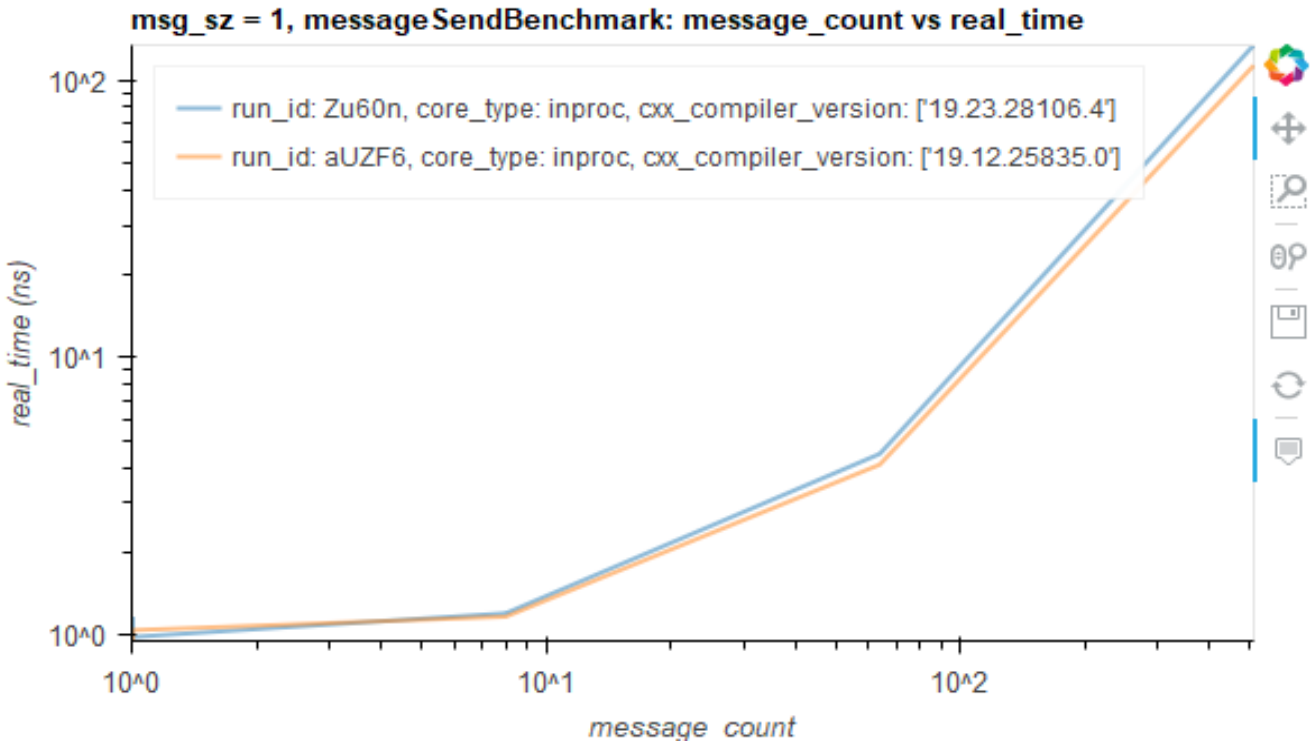

msg_ct = 1, messageSendBenchmark: message_size vs real_time
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
25
20
15
10
5
10^0
10^1
10^2
10^3
10^4
10^5
10^6
message_size

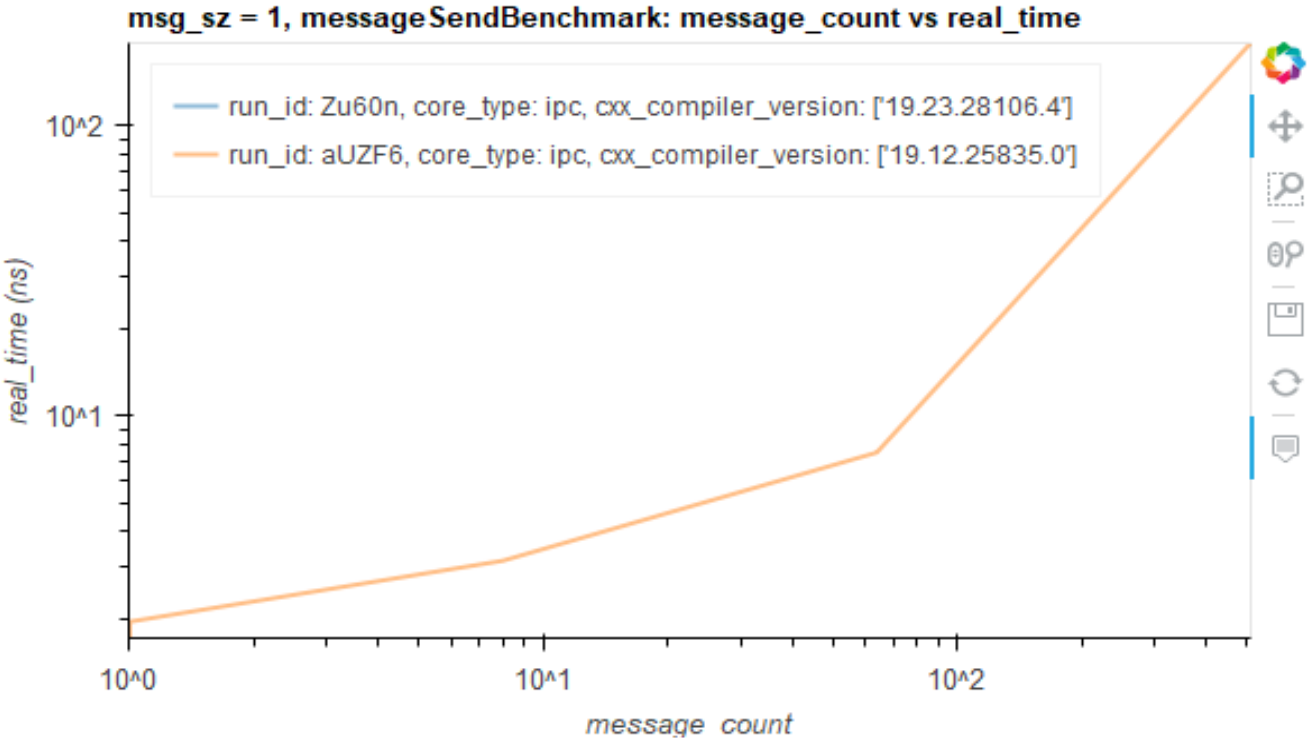

msg_ct = 1, messageSendBenchmark: message_size vs real_time
run_id: Zu60n, core_type: ipc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: ipc, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
20
15
10
5
10^0
10^1
10^2
10^3
message_size

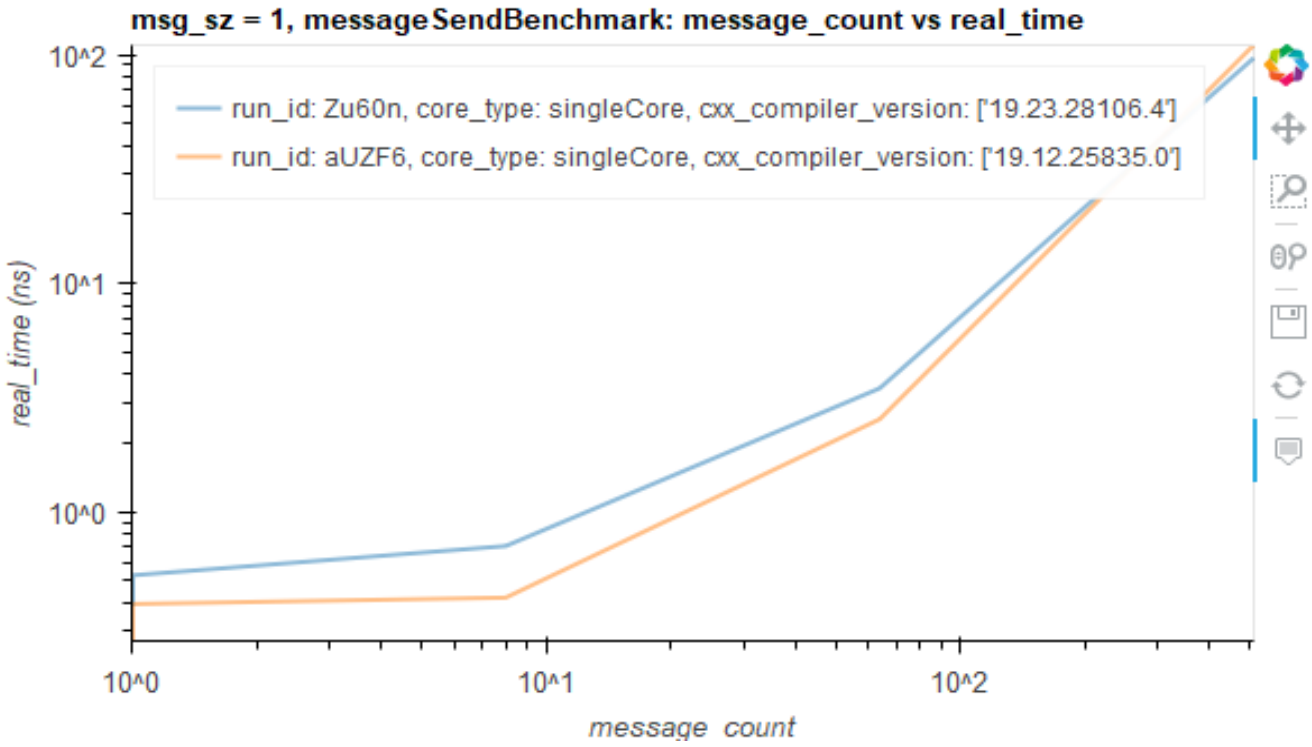

msg_ct = 1, messageSendBenchmark: message_size vs real_time
run_id: Zu60n, core_type: singleCore, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: singleCore, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
8
7
6
5
4
3
2
1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
message_size

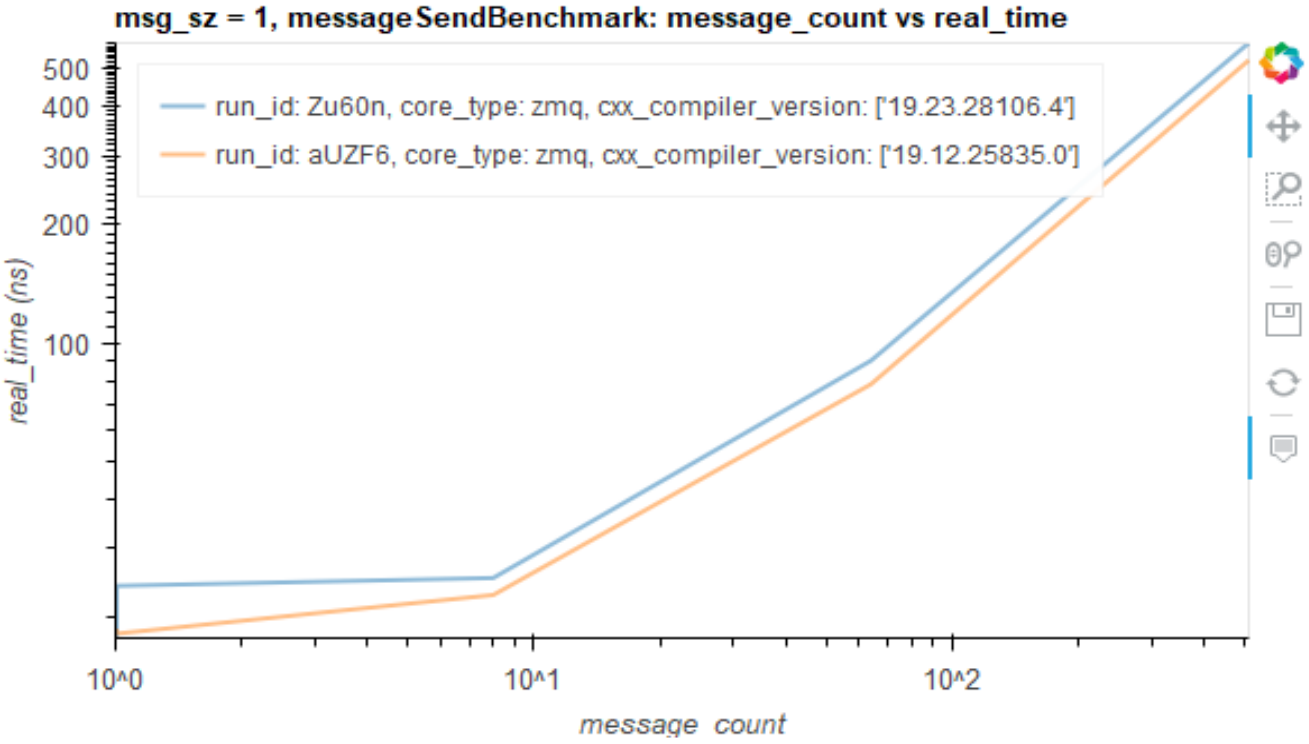

msg_ct = 1, messageSendBenchmark: message_size vs real_time
run_id: Zu60n, core_type: zmq, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmq, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
10^3
10^2
10^0
10^1
10^2
10^3
10^4
10^5
10^6
message_size

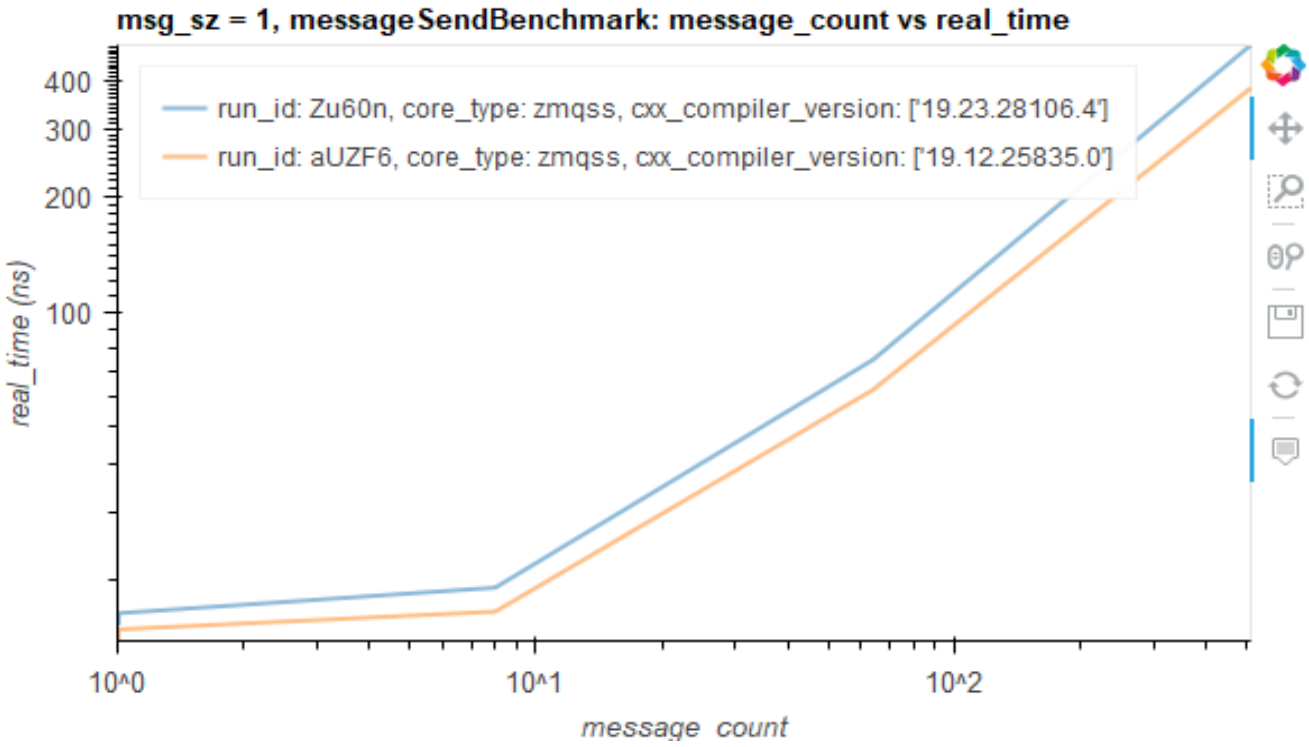

msg_ct = 1, messageSendBenchmark: message_size vs real_time
run_id: Zu60n, core_type: zmqss, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmqss, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
1000
500
10^0
10^1
10^2
10^3
10^4
10^5
10^6
message_size

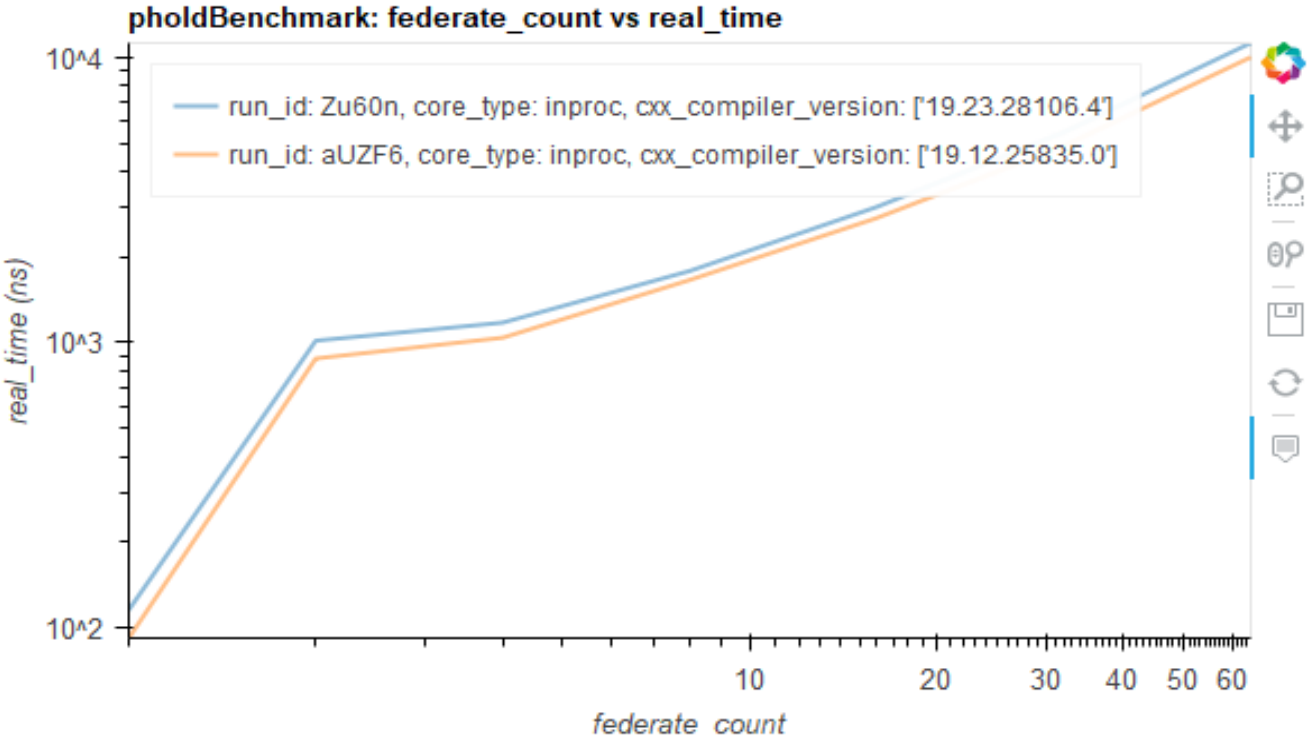

msg_sz = 1, messageSendBenchmark: message_count vs real_time
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
real_time (ns)
10^2
10^1
10^0
10^0
10^1
10^2
message_count

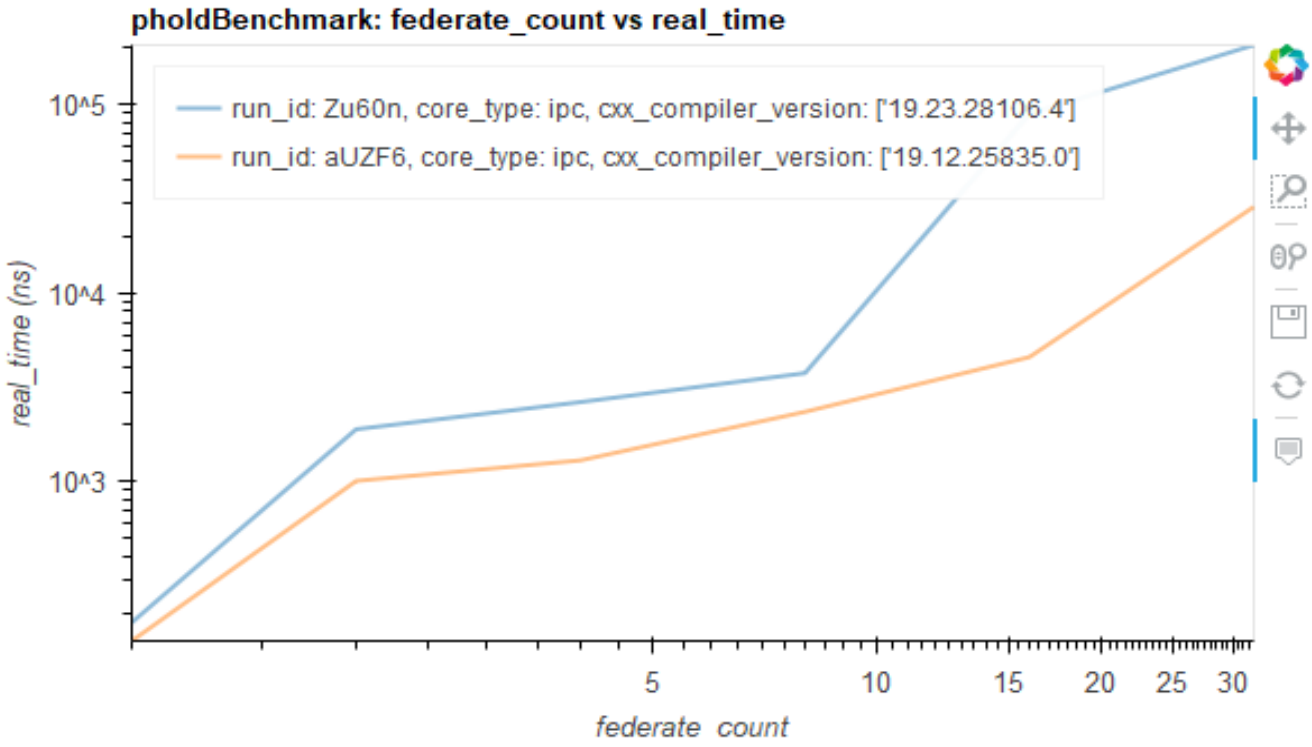

msg_sz = 1, messageSendBenchmark: message_count vs real_time
run_id: Zu60n, core_type: ipc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: ipc, cxx_compiler_version: ['19.12.25835.0']
10^2
10^1
real_time (ns)
10^0
10^1
10^2
message_count

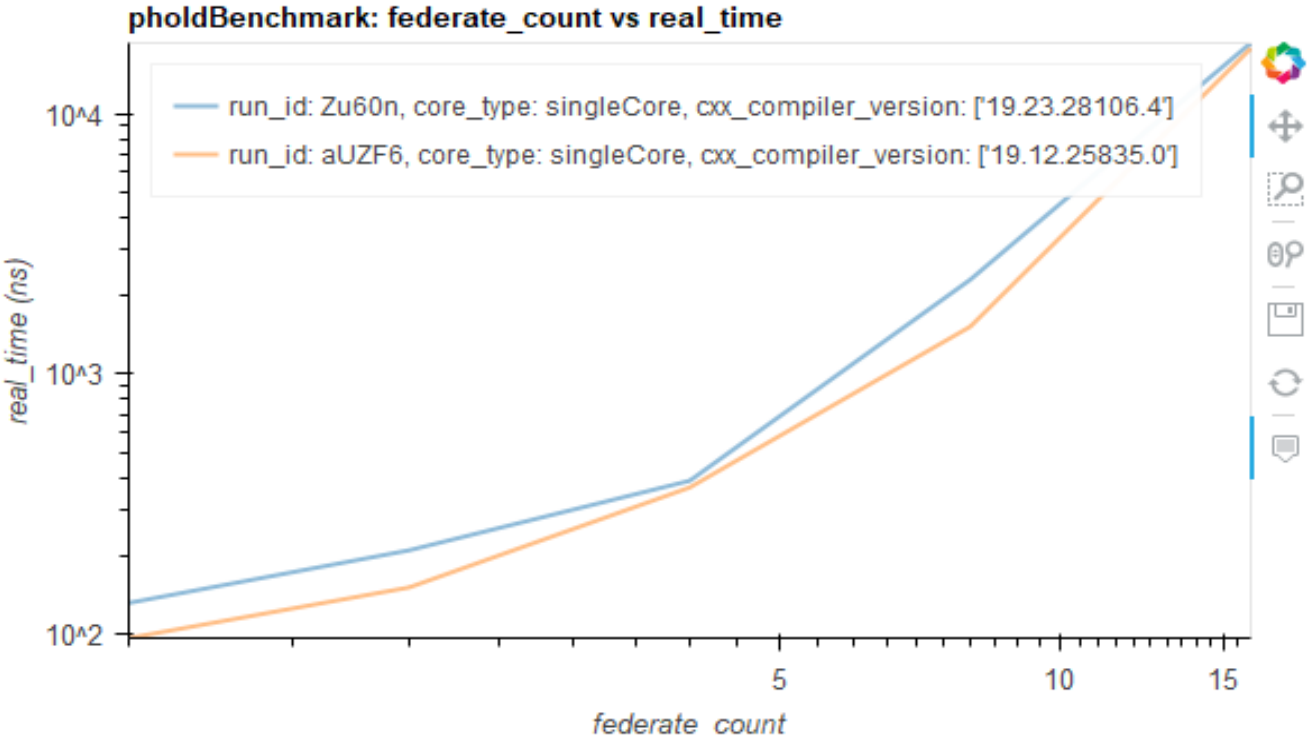

msg_sz = 1, messageSendBenchmark: message_count vs real_time
run_id: Zu60n, core_type: singleCore, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: singleCore, cxx_compiler_version: ['19.12.25835.0']
10^2
10^1
10^0
real_time (ns)
10^0
10^1
10^2
message_count

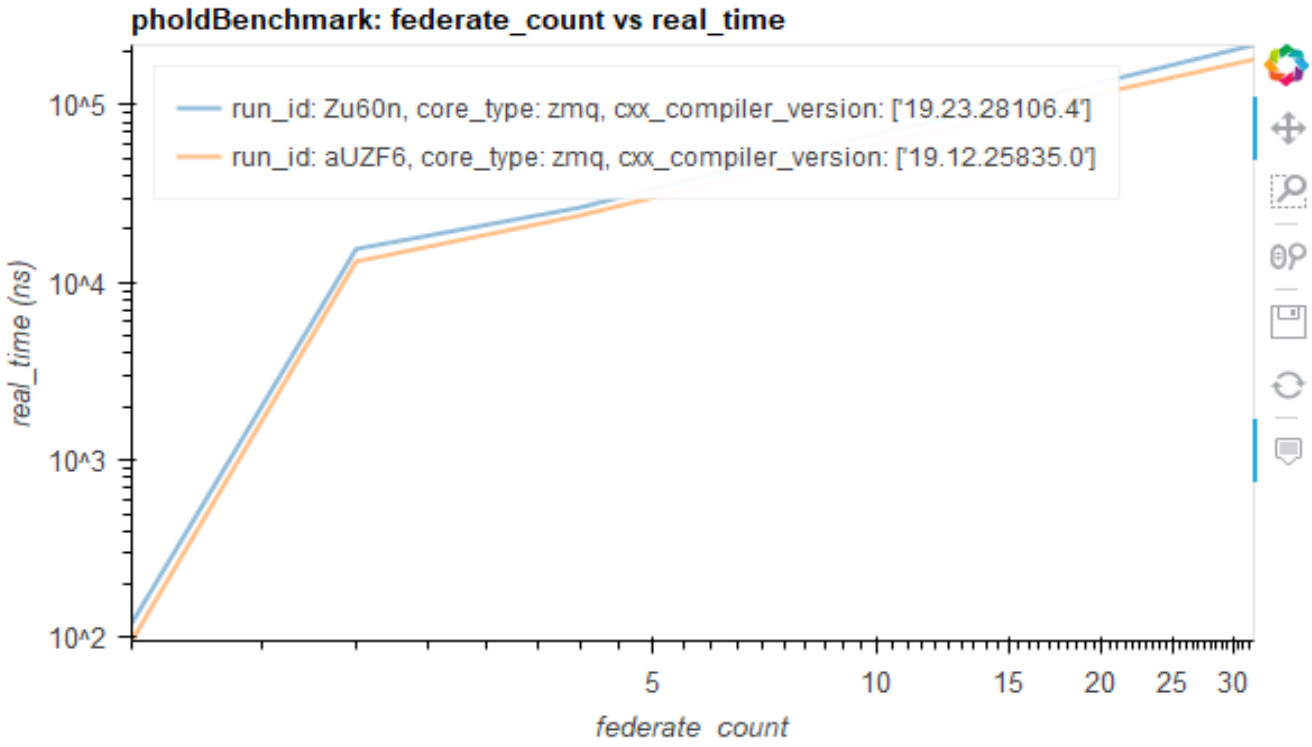

msg_sz = 1, messageSendBenchmark: message_count vs real_time
run_id: Zu60n, core_type: zmq, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmq, cxx_compiler_version: ['19.12.25835.0']
500
400
300
200
100
real_time (ns)
10^0
10^1
10^2
message_count

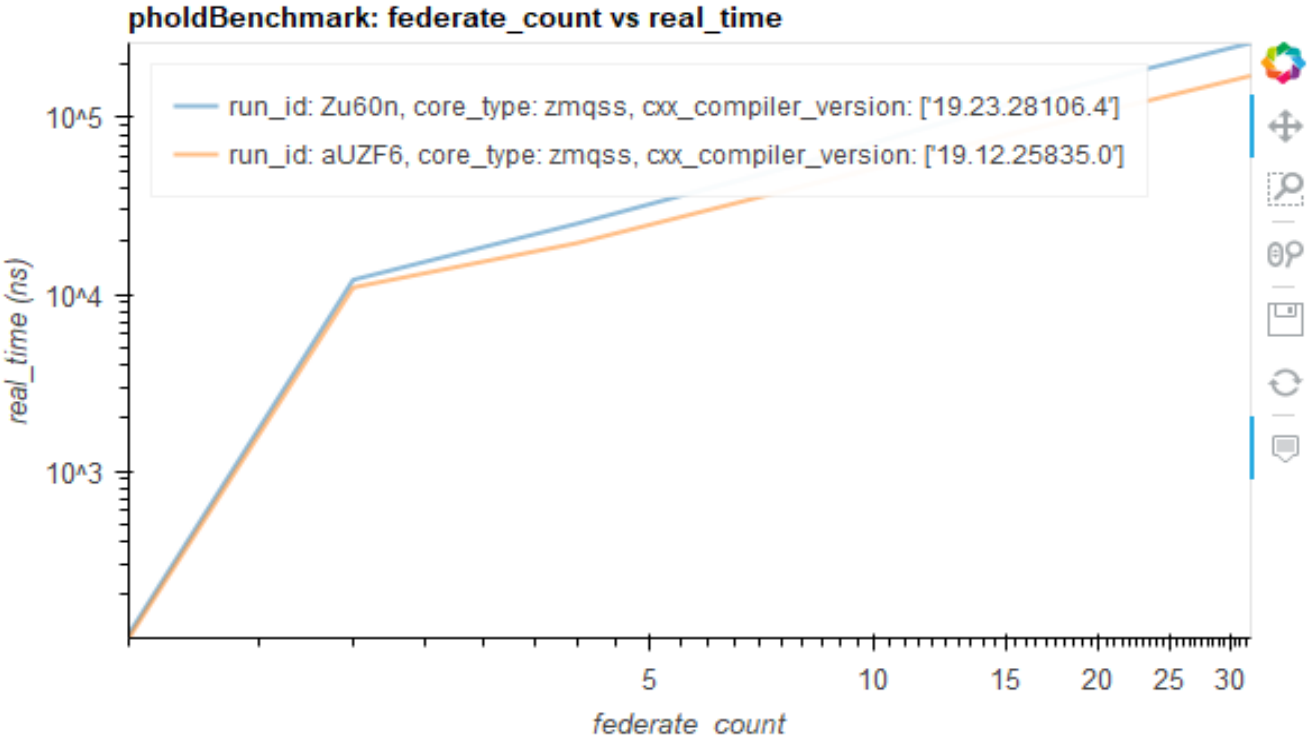

msg_sz = 1, messageSendBenchmark: message_count vs real_time
run_id: Zu60n, core_type: zmqss, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmqss, cxx_compiler_version: ['19.12.25835.0']
400
300
200
100
real_time (ns)
10^0
10^1
10^2
message_count

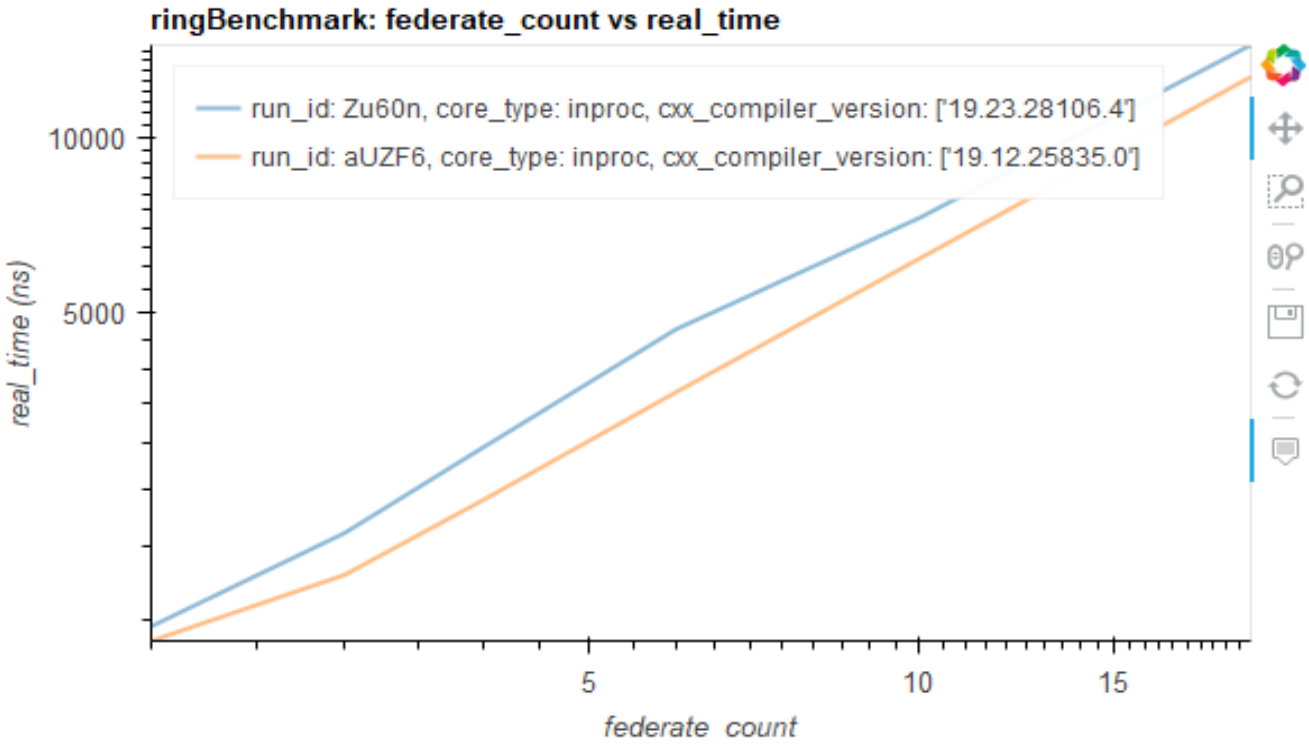

pholdBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
10^4
10^3
10^2
real_time (ns)
10
20
30
40
50
60
federate_count

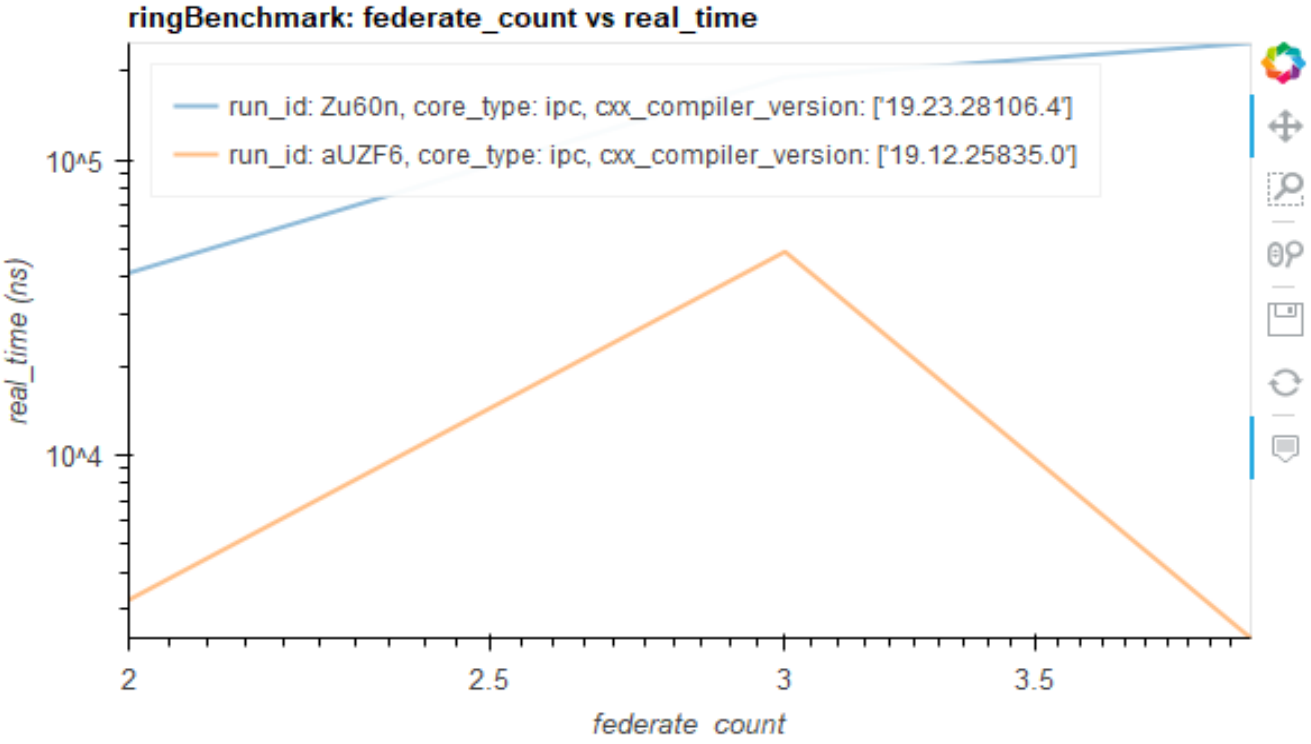

pholdBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: ipc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: ipc, cxx_compiler_version: ['19.12.25835.0']
10^5
10^4
10^3
real_time (ns)
5
10
15
20
25
30
federate_count

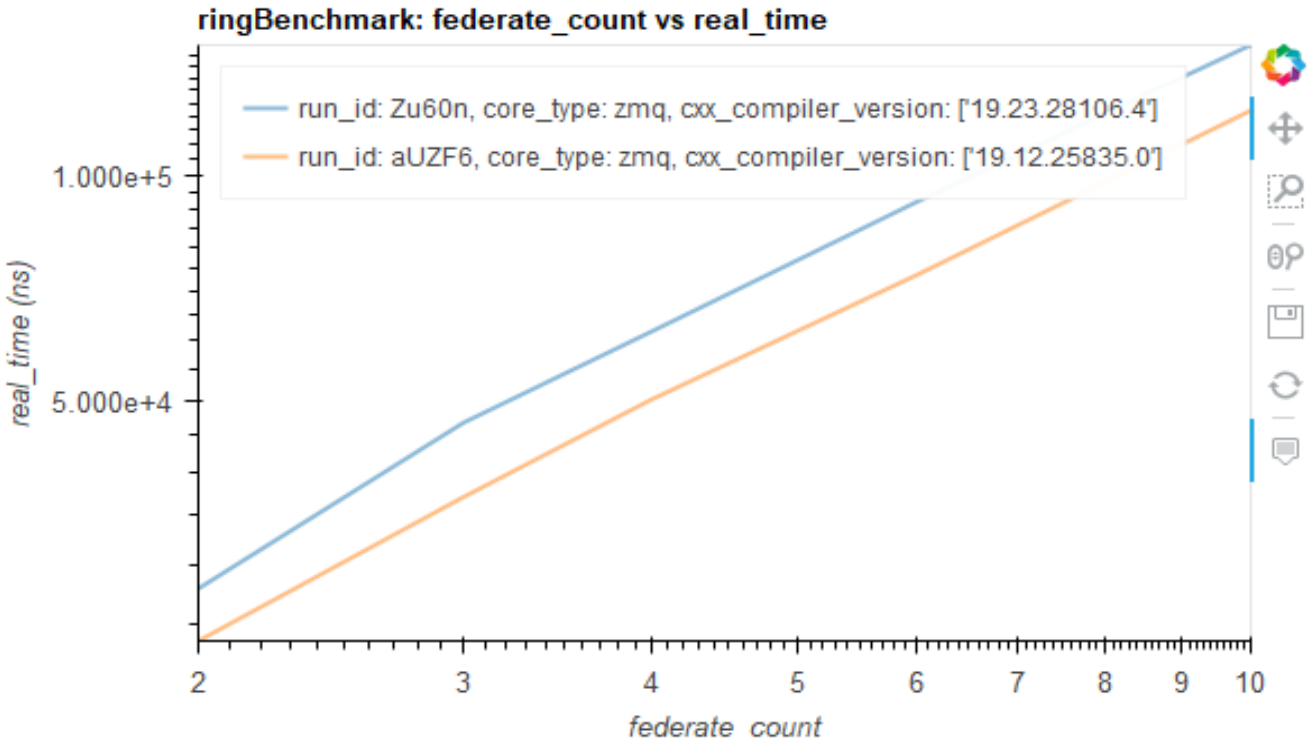

pholdBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: singleCore, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: singleCore, cxx_compiler_version: ['19.12.25835.0']
10^4
10^3
10^2
real_time (ns)
5
10
15
federate_count

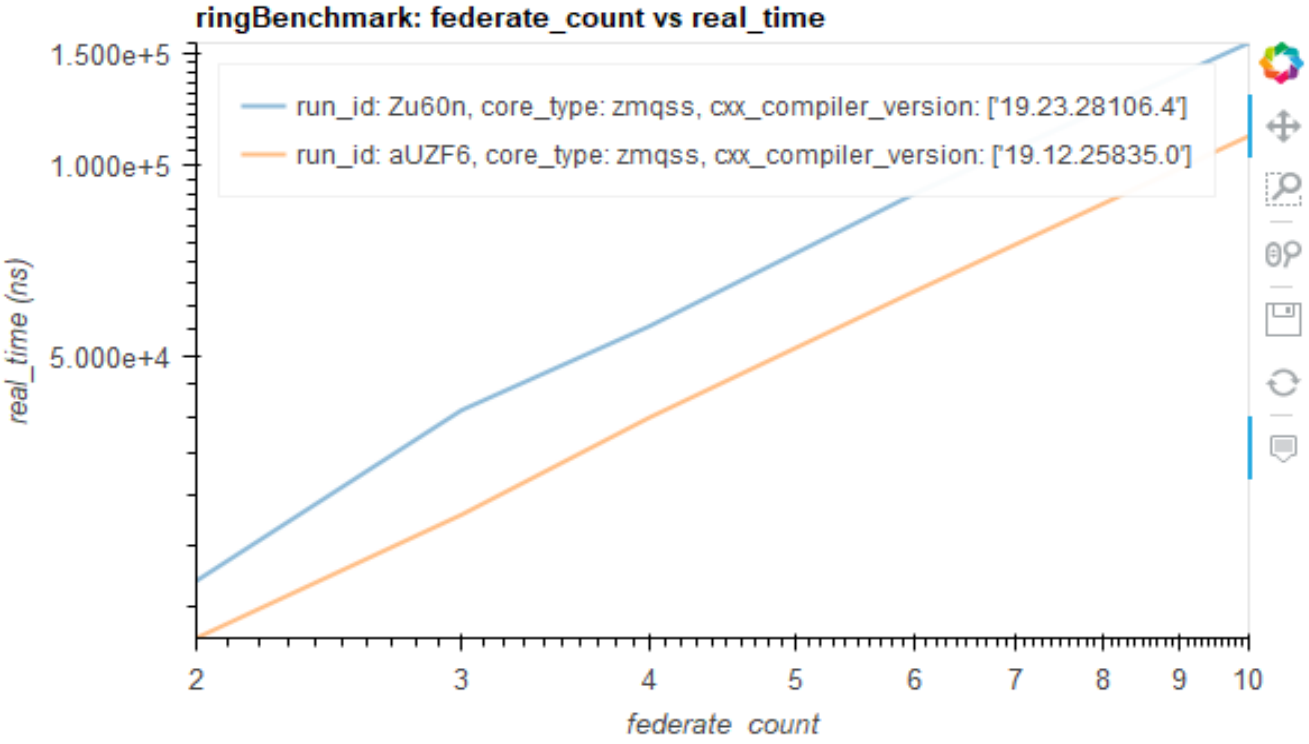

pholdBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: zmq, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmq, cxx_compiler_version: ['19.12.25835.0']
10^5
10^4
10^3
10^2
real_time (ns)
5
10
15
20
25
30
federate_count


pholdBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: zmqss, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmqss, cxx_compiler_version: ['19.12.25835.0']
10^5
10^4
10^3
real_time (ns)
5
10
15
20
25
30
federate_count


ringBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: inproc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: inproc, cxx_compiler_version: ['19.12.25835.0']
10000
5000
real_time (ns)
5
10
15
federate_count


ringBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: ipc, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: ipc, cxx_compiler_version: ['19.12.25835.0']
10^5
10^4
real_time (ns)
2
2.5
3
3.5
federate_count


ringBenchmark: federate_count vs real_time
run_id: Zu60n, core_type: zmq, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmq, cxx_compiler_version: ['19.12.25835.0']
1.000e+5
5.000e+4
real_time (ns)
2
3
4
5
6
7
8
9
10
federate_count


ringBenchmark: federate_count vs real_time
1.500e+5
1.000e+5
5.000e+4
real_time (ns)
run_id: Zu60n, core_type: zmqss, cxx_compiler_version: ['19.23.28106.4']
run_id: aUZF6, core_type: zmqss, cxx_compiler_version: ['19.12.25835.0']
2
3
4
5
6
7
8
9
10
federate count