Charm++ - Support #2031

Add a new target (potentially benchmarks) for Vesta autobuilds to avoid maximum execution time from exceeding

11/19/2018 04:33 PM - Evan Ramos

Status: In Progress
Priority: Normal
Assignee: Nitin Bhat
Category: Build & Test Automation
Target version: 6.10.0

Start date: 11/19/2018
Due date: 
% Done: 0%
Estimated time: 0.00 hour
Spent time: 0.00 hour

Description
Every few days pamilrts-bluegeneq or pamilrts-bluegeneq-smp will fail autobuild testing with a hang that is never in the same test.

Examples:
http://charm.cs.illinois.edu/autobuild/old.2018_11_11__01_01/pamilrts-bluegeneq-smp.txt
http://charm.cs.illinois.edu/autobuild/old.2018_11_12__01_01/pamilrts-bluegeneq.txt
http://charm.cs.illinois.edu/autobuild/old.2018_11_14__01_01/pamilrts-bluegeneq-smp.txt
http://charm.cs.illinois.edu/autobuild/old.2018_11_16__01_01/pamilrts-bluegeneq.txt

Related issues:
Related to Charm++ - Cleanup #1872: Move performance tests and benchmarks from... Implemented 04/17/2018

History

#1 - 11/29/2018 12:57 PM - Eric Bohm
- Assignee set to Nitin Bhat

#2 - 03/14/2019 11:55 AM - Eric Bohm
- Target version changed from 6.9.1 to 6.10.0

#3 - 03/14/2019 02:15 PM - Evan Ramos
This bug should be reassigned to a PPL member with BG/Q access

#4 - 03/20/2019 11:34 AM - Nitin Bhat
- Status changed from New to In Progress

Since the BGQ autobuilds began successfully running just yesterday, I am going to wait for about 10 days to ensure this issue doesn't reoccur.

#5 - 03/26/2019 02:06 PM - Nitin Bhat

On examining the job logs for the reported failures, I found out that all of these are due to exceeding the maximum execution time (as shown in the joblogs below).

Jobid: 708986
Sun Nov 11 10:57:20 2018 +0000 (UTC)
Jobid: 709062

Jobid: 709250

04/03/2019
Jobid: 709400

Jobid: 717537

I have increased the execution time for all the build jobs to 120 minutes (which is the maximum allowed time for the queues that we have access to). However, last night there was again a failure because of the maximum time exceeding:

http://charm.cs.illinois.edu/autobuild/old.2019_03_26__01_01/pamilrts-bluegeneq-async-smp.txt

Jobid: 717537

I have increased the execution time for all the build jobs to 120 minutes (which is the maximum allowed time for the queues that we have access to). However, last night there was again a failure because of the maximum time exceeding:

http://charm.cs.illinois.edu/autobuild/old.2019_03_26__01_01/pamilrts-bluegeneq-async-smp.txt
This occurred even though we had set the execution time to the maximum allowed time i.e. 120 minutes. The output indicates that the program didn't hang at any stage. I suspect that some of the programs spuriously run slow and then cause the entire job to exceed the execution time. We already split the tests and programs into two separate 120 minute jobs (total of 240 mins). We may have to split this into another job or alternatively identify slow jobs and remove them from autobuild testing.

#6 - 03/26/2019 02:10 PM - Evan Ramos
My task to separate benchmarks from tests might help here.

#7 - 04/02/2019 01:31 PM - Nitin Bhat
- Related to Cleanup #1872: Move performance tests and benchmarks from "make test" to a new "make benchmark" added

#8 - 04/02/2019 01:32 PM - Nitin Bhat
- Subject changed from pamilrts-bluegeneq occasionally hangs randomly in autobuild to Add a new target (potentially benchmarks) for Vesta autobuilds to avoid maximum execution time from exceeding
- Tracker changed from Bug to Support
Yes, I think it'll be good to get back to this after the reorganization of tests, examples, and benchmarks.

This change is currently waiting on https://charm.cs.illinois.edu/gerrit/c/charm/+/4218 to be completed and merged.