Charm++ - Bug #1474

mpi-win-x86_64 fails in collidethread example

03/27/2017 10:48 AM - Sam White

Status: New
Priority: Normal
Assignee: Eric Mikida
Category:
Target version: 6.8.0

Start date: 03/27/2017
Due date:
% Done: 0%
Estimated time: 0.00 hour
Spent time: 0.00 hour

Description

mpi-win-x86_64 has failed in this example the last 2 days (since AMPI was fixed on mpi-win):

```
make[3]: Entering directory '/home/nikhil/autobuild/mpi-win-x86_64/charm/mpi-win-x86_64/examples/collide/collidethread'
   ../../../bin/charmc -optimize -production hello.ci
   ../../../bin/charmc -optimize -production -c hello.C
   ignored Unrecognized argument -fno-lifetime-dse hello.C
   ../../../bin/charmc -optimize -production -language ampi -module collide -o hello hello.o
   ignored Unrecognized argument -fno-lifetime-dse moduleinit4540.C
   ../../../bin/testrun ./hello +p4 +vp10

Running on 4 processors: ./hello +vp10
charmrun> /cygdrive/c/Program Files/Microsoft MPI/Bin/mpiexec -n 4 ./hello +vp10

job aborted:
[ranks] message

[0-3] process exited without calling finalize

---- error analysis -----

[0-3] on CS-DEXTERITY
./hello ended prematurely and may have crashed. exit code 0xc0000005

---- error analysis -----

Makefile:21: recipe for target 'test' failed
```

History

#1 - 03/28/2017 09:07 AM - Sam White

mpi-win-x86_64-smp also fails in this the same test

#2 - 03/28/2017 12:04 PM - Matthias Diener

Crashes with a segmentation fault even when run sequentially before starting main():

```
gdb ./hello.exe
Starting program: /home/mdiener/Work/charm/tmp/mpi-win64/examples/collide/collidethread/hello.exe

Program received signal SIGSEGV, Segmentation fault.
Dx000000007787f23c in ntdll!RtlAnsiStringToUnicodeString () from /cygdrive/c/Windows/SYSTEM32/ntdll.dll

Is there a better way to debug on win than using gdb?
```

04/12/2017
The problem may be with the fact that this is using charmcc's `-language ampi` option directly instead of using `ampicc` (so the changes that you made to ampiCC.in are not being used here...)

Note that even when removing the fix for AMPI on mpi-win (Bug #1341), the crash is still the same.

So, in other words, we should compile/link/use only AMPI, not the system MPI, in the charmcc -language ampi case?

Assignee set to Eric Mikida