Charm++ - Bug #1955

tests/charm++/chkpt hangs for mpi-win-x86_64-smp

08/07/2018 08:50 AM - Nitin Bhat

<table>
<thead>
<tr>
<th>Status:</th>
<th>New</th>
<th>Start date:</th>
<th>08/07/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>High</td>
<td>Due date:</td>
<td></td>
</tr>
<tr>
<td>Assignee:</td>
<td>Juan Galvez</td>
<td>% Done:</td>
<td>0%</td>
</tr>
<tr>
<td>Category:</td>
<td></td>
<td>Estimated time:</td>
<td>0.00 hour</td>
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<tr>
<td>Target version:</td>
<td></td>
<td>Spent time:</td>
<td>0.00 hour</td>
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Description

```
../../../../bin/testrun ./hello +p4 +restart log
```

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

Charm++> Running on MPI version: 2.0  
Charm++> level of thread support used: MPI_THREAD_FUNNELED (desired: MPI_THREAD_FUNNELED)  
Charm++> Running in SMP mode: 4 processes, 1 worker threads (PEs) + 1 comm threads per process, 0 PEs total  
Charm++> The comm. thread both sends and receives messages
Charm++ warning> fences and atomic operations not available in native assembly
Converse/Charm++ Commit ID: v6.8.2-853-g4146bf788
Charm++> Disabling isomalloc because mmap() does not work.
CharmLB> Load balancer assumes all CPUs are same.
Charm++> Running on 1 hosts (1 sockets x 4 cores x 2 PUs = 8-way SMP)  
  [1] data on Group 1  
  [2] data on Group 2  
  [2] data on NodeGroup 2  
  [1] data on NodeGroup 1  
Charm++> cpu topology info is gathered in 0.000 seconds.
Received 1 arguments: { ./hello }
Main's MigCtor. a=987(00000000000285CF4), b[0]=654(00000000000285CF8), b[1]=321, old PE number 4  
Main's PUPer. a=123(00000000000285CF4), b[0]=456(00000000000285CF8), b[1]=789  
  [3] data on Group 3  
  [3] data on NodeGroup 3  
CHello's PUPer. step=3.  
  [0] data on Group 0  
  [0] data on NodeGroup 0  
  [0]CkRestartMain done. sending out callback.

Found this bug from manual testing.

Build charm or LIBS using ./build LIBS mpi-win-x86_64 smp --with-production --enable-error-checking --without-romio -j4

History

#1 - 08/08/2018 11:33 AM - Nitin Bhat  
This bug is also seen on charm-6.8.2.

#2 - 08/21/2018 03:10 PM - Evan Ramos  
- Target version deleted (6.9.0)

#3 - 09/27/2018 01:54 PM - Eric Bohm  
- Assignee set to Juan Galvez