Charm++ - Bug #1522

Verbs failure on small messages

04/21/2017 08:02 PM - Sam White

<table>
<thead>
<tr>
<th>Status:</th>
<th>New</th>
<th>Start date:</th>
<th>04/21/2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
<td>Due date:</td>
<td></td>
</tr>
<tr>
<td>Assignee:</td>
<td>Bilge Acun</td>
<td>% Done:</td>
<td>0%</td>
</tr>
<tr>
<td>Category:</td>
<td>Machine Layers</td>
<td>Estimated time:</td>
<td>0.00 hour</td>
</tr>
<tr>
<td>Target version:</td>
<td>6.8.1</td>
<td>Spent time:</td>
<td>0.00 hour</td>
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</tbody>
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Description

If I run tests/charm++/pingpong on Cab @ LLNL with a payload size smaller than 9 bytes, it gets the following:

```
$ ./charmrun -p2 ./pgm +mpiexec +remote-shell ./mysrun 8 1000
Charmrun> scalable start enabled.
Charmrun> IBVERBS version of charmrun
Charmrun> started all node programs in 0.298 seconds.
Charm++> Running in non-SMP mode: numPes 2
Converse/Charm++ Commit ID: v6.7.0-771-g42e9803
Charm++> scheduler running in netpoll mode.
CharmLB> Load balancer assumes all CPUs are same.
Charm++> Running on 2 unique compute nodes (32-way SMP).
Charm++> cpu topology info is gathered in 0.002 seconds.
Pingpong with payload: 8 iterations: 1000
[0] Assertion "recvBufSize > sizeof(double)" failed in file machine-ibverbs.c line 2866.
------------- Processor 0 Exiting: Called CmiAbort ------------
[0] Stack Traceback:
[0:0] CmiAbortHelper+0xb3 [0x61a9fc]
[0:1] CmiAbort+0x2d [0x61a33]
[0:2] __cmi_assert+0x33 [0x627d48]
[0:3] _ZN4Direct_createHandle+0x51 [0x62101d]
[0:4] _ZN5PingNC1Ev+0x169 [0x5388eb]
[0:5] _ZN13CkIndex_PingN16_call_PingN_voidEPvS0_+0x45 [0x52cc83]
[0:6] CkDeliverMessageFree+0x4e [0x54c8c7]
[0:7] [0x54ca11]
[0:8] CkCreateLocalNodeGroup+0x2d [0x54d274]
[0:9] _ZN16_createNodeGroup10_ckGroupIDP8envelope+0x168 [0x54d688]
[0:10] [0x54d7b7]
[0:11] CkCreateNodeGroup+0xff [0x54da88]
[0:12] _ZN12CProxy_PingN5ckNewEPK14CkEntryOptions+0x48 [0x52cc04]
[0:13] _ZN4main18_ckGroup+0x266 [0x536aee]
[0:14] _ZN12CkIndex_main19_call_main_CkArgMsgEPvS0_+0x40 [0x524b60]
[0:15] _Z10_initCharmiPPc+0xd51 [0x541baa]
[0:16] [0x61a7ea]
[0:17] ConverseInit+0x324 [0x61a706]
[0:18] main+0x3f [0x53f208]
[0:19] __libc_start_main+0xfd [0x526aaa8a8d1d]
[0:20] [0x5246d9]
```

Perhaps try on another machine first to see if this is just something weird on Cab?

History

#1 - 04/22/2017 10:54 AM - Sam White
This also happens on the iForge cluster at NCSA...

#2 - 04/25/2017 04:29 PM - Sam White
- Target version set to 6.8.1