Charm++ - Bug #1441

lies at startup about "The comm. thread both sends and receives messages"

02/21/2017 02:58 PM - Jim Phillips

Status: New
Priority: Normal
Assignee: Nitin Bhat
Category: Machine Layers
Target version: 6.8.0

Description

There is logic for setting and reporting Cmi_smp_mode_setting at startup, but this only reflects the behavior of the mpi-smp and gni-smp layers.

```c
jim@sunnyvale$grep -r Cmi_smp_mode_setting .
./arch/util/machine-common-core.c:static enum MACHINE_SMP_MODE Cmi_smp_mode_setting = COMM_THREAD_SEND_RECV;
./arch/util/machine-common-core.c: if (Cmi_smp_mode_setting == COMM_THREAD_SEND_RECV) {
./arch/util/machine-common-core.c: } else if (Cmi_smp_mode_setting == COMM_THREAD_ONLY_RECV) {
./arch/util/machine-common-core.c: } else if (Cmi_smp_mode_setting == COMM_WORK_THREADS_SEND_RECV) {
./arch/util/machine-common-core.c: } else if (Cmi_smp_mode_setting == COMM_THREAD_NOT_EXIST) {
./arch/util/machine-common-core.c: if(Cmi_smp_mode_setting == COMM_THREAD_ONLY_RECV || Cmi_smp_mode_setting == COMM_THREAD_NOT_EXIST) {
./arch/mpi/machine.c: if (Cmi_smp_mode_setting == COMM_THREAD_SEND_RECV) {
./arch/mpi/machine.c: } else if(Cmi_smp_mode_setting == COMM_THREAD_ONLY_RECV) {
./arch/mpi/machine.c: } else if(Cmi_smp_mode_setting == COMM_THREAD_SEND_RECV) {
./arch/mpi/machine.c: Cmi_smp_mode_setting = COMM_THREAD_SEND_RECV;
./arch/gni/machine.c: Cmi_smp_mode_setting = COMM_WORK_THREADS_SEND_RECV;
```

History

#1 - 02/21/2017 04:03 PM - Jim Phillips

More specifically, verbs and net-libverbs only use the comm thread for receives.

#2 - 03/03/2017 11:41 AM - Sam White

- Target version set to 6.8.0
- Assignee set to Nitin Bhat