**SETUP BCCD ENVIROMENT**

**(Friday 04/05/2013)**

There are the steps needed to setup the **BCCD** environment in order to run **openMPI** application on the MassBay CC **Cerberus Beowulf Cluster**:

1. We need to boot the master node (**node000.bccd.net**)
2. All **openMPI** nodes have these IP addresses and host names by default:
   1. **192.168.3.1 node000.bccd.net**
   2. **192.168.3.10 node009.bccd.net**
   3. 192.168.3.1 node000.bccd.net
   4. 192.168.3.1 node000.bccd.net
   5. 192.168.3.1 node000.bccd.net
   6. 192.168.3.1 node000.bccd.net
   7. 192.168.3.1 node000.bccd.net
   8. 192.168.3.1 node000.bccd.net
3. The common directory for all MPI hosts is:

**/tmp/\***

1. You always login to the **bccd** account:
   1. **cd ~bccd**
2. Go to node 0 and run “**bccd-snarfhosts**” in order for all hosts in the cluster work in the distributed application. You need to run the command on all the nodes in the cluster after they booted (use **rlogin** or **ssh**):
   1. **bccd-snarfhosts**
3. Go to the top-level **Makefile** in “**~/bccd**”, and check the “**Readme**” file. Build all sample MPI programs:
   1. **make build-all**
4. You can also go to the top-level **bccd** acount “**~/bccd**”, and clean all binary sample MPI programs:
   1. **make clean-all**