1. **Installing MPICH2**

* Get source code from: *http://www.mcs.anl.gov/research/projects/mpich2/downloads/index.php?s=downloads*
* Unpack downloaded file mpich2.tar.gz:  
  *tar xfz mpich2.tar.gz*
* Create install directory  
  *mkdir ~/mpich2-install*
* Configure MPICH2:  
  *configure \-prefix=~/mpich2-install |& tee configure.log*
* Build MPICH2:  
  *make |& tee make.log*
* Install the MPICH2 commands:  
  *make install |& tee install.log*
* Add the bin folder to the PATH
* At Ryerson EE department you must do this:
* Edit .myzshrc and add the following:  
  *PATH=~/mpich2-install/bin:$PATH  
  export PATH*
* This will set the path variable so that all the mpi binaries would be accessible directly.
* It is necessary for running the programs on all the machines.
* Check that everything is in order at this point by doing:  
  *which mpd  
  which mpicc  
  which mpiexec  
  which mpirun*
* Create a file .mpd.conf in home directory:  
  *touch .mpd.conf  
  chmod 600 .mpd.conf*
* Add a secretword to the file:  
  echo “secretword=mr45-j9z” >.mpd.conf
* Add host names to config file mpd.hosts
* To avoid the password prompt:  
  *cd ~/.ssh  
  ssh-keygen -t rsa  
  cp id\_rsa.pub authorized\_keys*

1. **Testing MPICH2 Installation**

* Start the mpi daemon  
  *mpdboot -n 5 -f mpd.hosts*
* Test the ring:  
  *mpdtrace*
* Test how long it takes a message to circle this ring with: *mpdringtest*
* Exit All mpd daemons *mpdallexit*