S1 Text. Install of MPI

The following section described the steps that used to build parallel environment in LINUX- based system. We need the following prerequisites in advance.

- 1) The tar file mpich.tar.gz (which can be obtained from the official website)
- 2) A C compiler (A Fortran compiler if needed)

Step 1. Create a directory for MPI and add it in the home directory.

\$ mkdir MPI

Step 2. Unpack the tar file.

\$ tar xfz mpich.tar.gz

The directory MPI will contain a sub-directory named mpich.tar.gz.

Step 3. Choose tehe installation directory

\$ mkdir mpich-install

Step 4. Choose a building directory

\$ mkdir mpich

Now the MPI directory will contain three sub-directories named mpich.tar.gz, mpich and mpich-install.

Step 5. Configure MPICH, specifying the installation directory and running the configure script in the source directory.

\$ cd

\$ cd MPI/mpich

\$/home/you/MPI/mpich.tar.gz/configure -prefix=/home/you/MPI/mpich-install

Step 6. Build MPICH

\$ make

Step 7. Install the MPICH commands.

\$ make install

Step 8. Add the bin directory to your path which you will use.

\$ export PATH=/home/you/MPI/mpich-install/bin:\$PATH

Based on the above 8 steps, the MPI will be successfully installed.