

```

8 make --no-print-directory TARGET=lib,0
9 export CC=gcc
10 ARCHFLAGS="-x86_64 -m64"
11 python setup.py build --build=lib --build=lib

```

- **Alternative 2:**

```

8 export ARCHFLAGS="-x86_64 -m64"
9 export CFLAGS=""
10 export ARCHFLAGS="-x86_64 -m64"
11 python setup.py build --build=lib --build=lib

8 make --no-print-directory TARGET=lib,0
9 export ARCHFLAGS="-x86_64 -m64"
10 export CFLAGS=""
11 export ARCHFLAGS="-x86_64 -m64"
12 python setup.py build --build=lib --build=lib
13 make

```

5.3 Building MPI from sources

In the list below you have some executive instructions for building some of the open-source MPI implementations out there with support for shared/dynamic libraries on POSIX environments.

- **MPICH2**

```

8 tar --no-print-directory -R,0,0,0 tar -xzf
9 tar mpich2-0,0,0
10 ./configure --enable-shared --enable-static --prefix=/usr/local/mpi
11 make
12 make install

```

- **Open MPI**

```

8 tar --no-print-directory -R,0,0,0 tar -xzf
9 tar openmpi-0,0,0
10 ./configure --prefix=/usr/local/mpi
11 make
12 make install

```

- **LAMMPI**

```

8 tar --no-print-directory -R,0,0,0 tar -xzf
9 tar lam-0,0,0
10 ./configure --enable-shared --enable-static --prefix=/usr/local/mpi
11 make
12 make install

```

- **MPICH**

```

8 tar --no-print-directory -R,0,0,0 tar -xzf
9 tar mpich-0,0,0
10 ./configure --enable-shared --enable-static --prefix=/usr/local/mpi
11 make
12 make install

```

Perhaps you will need to set the `LD_LIBRARY_PATH` environment variable using `export`, where or what applies to your system pointing to the directory containing the MPI libraries. In case of getting runtime linking errors when running MPI programs, the following lines can be added to the user login shell script (`~/.profile`, `~/.bashrc`, etc.).

- **MPICH2**

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JS Bruner



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Using MPI William Gropp, Ewing Lusk, Anthony Skjellum, 1999 The authors introduce the core function of the Message Printing Interface MPI This edition adds material on the C and Fortran 90 binding for MPI **IBM Platform Computing Solutions** Dino Quintero, Scott Denham, Rodrigo Garcia da Silva, Alberto Ortiz, Aline Guedes Pinto, Atsumori Sasaki, Roger Tucker, Joanna Wong, Elsie Ramos, IBM Redbooks, 2012-12-07 This IBM Platform Computing Solutions Redbooks publication is the first book to describe each of the available offerings that are part of the IBM portfolio of Cloud analytics and High Performance Computing HPC solutions for our clients This IBM Redbooks publication delivers descriptions of the available offerings from IBM Platform Computing that address challenges for our clients in each industry We include a few implementation and testing scenarios with selected solutions This publication helps strengthen the position of IBM Platform Computing solutions with a well defined and documented deployment model within an IBM System x environment This deployment model offers clients a planned foundation for dynamic cloud infrastructure provisioning large scale parallel HPC application development cluster management and grid applications This IBM publication is targeted to IT specialists IT architects support personnel and clients This book is intended for anyone who wants information about how IBM Platform Computing solutions use IBM to provide a wide array of client solutions *IBM Platform Computing Solutions for High Performance and Technical Computing Workloads* Dino Quintero, Daniel de Souza Casali, Marcelo Correia Lima, Istvan Gabor Szabo, Maciej Olejniczak, Tiago Rodrigues de Mello, Nilton Carlos dos Santos, IBM Redbooks, 2015-06-19 This IBM Redbooks publication is a refresh of IBM Technical Computing Clouds SG24 8144 Enhance Inbound and Outbound Marketing with a Trusted Single View of the Customer SG24 8173 and IBM Platform Computing Integration Solutions SG24 8081 with a focus on High Performance and Technical Computing on IBM Power Systems™ This book describes synergies across the IBM product portfolio by using case scenarios and showing solutions such as IBM Spectrum™ Scale formerly GPFSTM This book also reflects and documents the IBM Platform Computing Cloud Services as part of IBM Platform Symphony for analytics workloads and IBM Platform LSF with new features such as a Hadoop connector a MapReduce accelerator and dynamic cluster for job scheduling Both products are used to help customers schedule and analyze large amounts of data for business productivity and competitive advantages This book is targeted at technical professionals consultants technical support staff IT Architects and IT Specialists that are responsible for delivering cost effective cloud services and big data solutions on IBM Power Systems to uncover insights among client data so that they can take actions to optimize business results product development and scientific discoveries Beowulf Cluster Computing with Linux Thomas Lawrence Sterling, 2002 Enabling technologies An overview of cluster computing Thomas Sterling Node Hardware Thomas Sterling Linux Peter H Beckman Network Hardware Thomas Sterling Network Software Thomas Sterling Setting Up clusters installation and configuration How fast is my beowulf David Bailey Parallel programming Parallel programming with MPI William Gropp Advanced topics in

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