# NEMO\_v3.6安装指南

## Required libraries

To install NEMO v3.6, the following libraries are required:

* MPI
* HDF5
* NETCDF4
* XIOS

To compile NEMO3.6, XIOS IO server should be installed. XIOS needs NETCDF4 and if you want to use the “one\_file” mode which means having one overall output instead of outputs for each processor, you will need the hdf/netcdf libraries properly compiled to allow parallel IO. In this document, sample scripts are provided for installing required libraries using Intel compilers.

## Installing XIOS

Obtain the latest revision of XIOS:

svn co http://forge.ipsl.jussieu.fr/ioserver/svn/XIOS/trunk XIOS

Follow instructions given here to install:

<http://forge.ipsl.jussieu.fr/ioserver/wiki/documentation>

# Compiling NEMO v3.6

## 下载代码

Download the latest version from the trunk repository:

svn --username yourusername co http://forge.ipsl.jussieu.fr/nemo/svn/trunk/NEMOGCM

Your username is the same as the one you use for <http://www.nemo-ocean.eu/> website

## 编译代码（网站提供）

To compile NEMO v3.6 you first need to create an architecture file compatible with your machine which also indicates the path to NETCDF4 and XIOS libraries. You can find example architecture files in NEMOGCM/ARCH folder.

After creating the architecture file, compile and create executable using an existing configuration. For example to use GYRE configuration and create a configuration called MY\_GYRE:

cd NEMOGCM/CONFIG

./makenemo –m your\_architecture –r GYRE -n MY\_GYRE

## 编译路线分析

./makenemo -r ORCA2\_LIM3 -n AGRIF -m gfortran\_linux add\_key 'key\_agrif'

-r 后面是算例名称；输入cpp\_ORCA2\_LIM3.fcm，其中是启用的key\_\*

-n 后面是创建一个配置算例（自己起名字）；

-m 后面是使用的编译架构ARCH，使用的编译器和编译参数以及需要链接使用的第三方库的路径；

add\_key: 就是临时需要启用的key\_\*