

**WRF requires some pre-installed libraries such as NETCDF, JASPER, ZLIB, LIBPNG.**

**Installation procedure:**

- 1. ./configure --prefix=/path/to/folder/where/to/be/installed**
- 2. make**
- 3. make install**
- 4. make check**

**Then, set up all these following library paths in your source files (either .cshrc or .bashrc according to your working Shell (C shell or B shell))**

**For C shell:**

**setenv NETCDF /usr/local/netcdf** (if the netcdf library is at some other location in your machine, change the path to that).

**setenv ZLIB /usr/local/lib**

**setenv JASPERLIB /usr/local/lib**

**setenv JASPERINC /usr/local/include**

**setenv WRF\_DA\_CORE 1 (To install WRFVAR CODE)**

**setenv WRF\_EM\_CORE 1 (To install WRF-ARW CODE)**

**B SHELL:**

**export NETCDF=/usr/local/netcdf**

**export ZLIB=/usr/local/lib**

**export JASPERLIB=/usr/local/lib**

**export JASPERINC=/usr/local/include**

**#setenv WRF\_DA\_CORE 1**

**setenv WRF\_EM\_CORE 1**

After setting all these setting

Unzip and untar the **Downloaded the WRF latest version (Version 3.6.1 at present)**  
**WRFV3.6.1.TAR.gz**

**gunzip WRFV3.1.2.TAR.gz**

**tar xvf WRFV3.1.2.TAR**

After **gunzip** and **untar**, you should see a directory **WRFV3/**

**cd WRFV3**

**./configure**

then you need choose some of these options like your compilers, etc.

Then you will get one **configure.wrf** file

vi **configure.wrf** and please check for netcdf and above mentioned library paths,  
whether they are correct or not.

If they are correct,

Then go for installation by typing

**./compile em\_real**

After successful compilation, You can get executables in **/WRFV3/main** directory.

**ndown.exe**

**real.exe**

**wrf.exe**

**tc.exe**

**ideal.exe**

**wrf.exe**

All these executables are also linked automatically to **/WRFV3/run**

**/WRFV3/test/em\_real** directories

You can run the model in any of these directories.

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## Compilation of WPS:

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*After successful compilation of WRFV3 model only, one should go for installing the WPS code.*

Unzip and untar the latest version WPSV3.2.1 code

**Cd WPS**

**`./configure`**

**Like before, u need to choose the configure options like compiler etc**

**Then it will create one file as `configure.wps`**

**`vi configure.wps`**

**Give the attention to these paths**

COMPRESSION\_LIBS = -L/usr/local/lib \  
-ljasper -lpng12 -lpng -lz

COMPRESSION\_INC = -I/usr/local/include

NCARG\_LIBS = -L/usr/local/ncarg64/lib -lncarg -lncarg\_gks -lncarg\_c \  
-L/usr/lpp/X11/lib/R6 -lX11

.  
.  
.  
.

.Go down,

WRF\_DIR = give the path for WRFV3 directory

COMPRESSION\_LIBS = -L/usr/local/lib -L/opt/freeware/lib -ljasper -lpng -lz  
COMPRESSION\_INC = -I/usr/local/include -I/usr/local/include -I/usr/local/include/jasper

NCARG\_LIBS =  
NCARG\_LIBS2 = -L/usr/local/ncarg64/lib -lncarg -lncarg\_gks -lncarg\_c \  
-L/usr/lpp/X11/lib/R6 -lX11

After setting all these paths correct,

Go for installation by typing

**`./compile`**

You will get three executables: `geogrid.exe` `ungrib.exe` `metgrid.exe`

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**Compilation of WRFVAR: This is not required for this session, this is for your information only**

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**`setenv WRF_DA_CORE 1` (To install WRFVAR CODE,  
and keep # symbol for WRF\_EM\_CORE 1)**

Untar and Unzip the downloaded WRFVAR package  
And go into that directory(cd wrfda)

`./configure wrfda`

Like before choose the same configure options

And type `./compile all_wrfvar` to install WRFVAR package.

After successful compilation, you will get 41 executables including wrfvar.exe and obproce.exe