

# A Guide to RIP4

Reference On-line help at  
<http://www.mmm.ucar.edu/wrf/users/docs/ripug.htm>

## Setting Up RIP4

1. Download RIP4.TAR.gz from the WRF website  
[http://www.mmm.ucar.edu/wrf/users/download/get\\_source2.html](http://www.mmm.ucar.edu/wrf/users/download/get_source2.html)
2. gunzip RIP4.Tar.gz
3. tar xf RIP4.TAR
4. RIP\_ROOT="location of RIP4"
5. export RIP\_ROOT
6. Change the Makefile so the linux section is as below, you only need to change the Linux portion:

```
# Linux
```

```
# Assume PGI is installed in /usr/pgi
```

```
linux:
```

```
(cd src/ ; $(MAKE) all \  
"CF = /usr/pgi/linux86/6.2/bin/pgf90" \  
"FFLAGS = -byteswapio " \  
"FFLAGS2 = -byteswapio " \  
"FFLAGS3 = $(FFLAGS2)" \  
"CCFLAGS = -DLITTLE -DUNDERScore -c" \  
"LDFLAGS = " \  
"LOCAL_LIBS = " \  
"NETCDFLIB = /home/netcdf/lib" \  
"NETCDFINC = /home/netcdf/include" \  
"LIBS = -L$(NCARG_ROOT)/lib -lncarg -lncgm -lncarg_gks -lncarg_c  
-L/usr/X11R6/lib -lX11 -L$(PGI)/linux86/lib -lpgftnrtl -lpgc  
-L/home/graves/lib -lf2c" )  
( $(RM) $(RM_LIST_EXE) ; $(LN) src/rip . ; $(LN) src/ripdp_mm5 . ; $(LN) src/ripdp_wrf . ; $(LN)  
src/ripcomp . ; $(LN) src/ripinterp . ; $(LN) src/ripshow . ; $(LN) src/showtraj . ; $(LN) src/tabdiag . ; $(LN)  
src/upscale . )
```

7. To compile type the command Make linux
8. In your .bashrc file add PATH="location of RIP4":\$PATH

## Running RIP4

1. First prepare the data with RIPDP
2. ripdp\_wrf [-n namelist\_file] model-data-set-name [basic|all] data\_file\_1 data\_file\_2 data\_file\_3 ...  
Example: ripdp\_wrf test basic wrfout\_d01\_2005-05-10\_18:00:00
  - a. the namelist\_file is the .in file that defines the output parameters
  - b. basic tells RIPDP to only process the basic variables and all tells RIPDP to process all the variables it encounters
3. run rip by typing rip -f test rip\_sample.in
4. look at the data by typing idt \_\_\_\_\_cgm