WRF CHEM YÜKLEME

- Model için lazım olan yazılımlar

havakalite@havakalite2:~$ which mpif90

/usr/bin/mpif90

havakalite@havakalite2:~$ which mpicc

/usr/bin/mpicc

havakalite@havakalite2:~$ which mpirun

/usr/bin/mpirun

havakalite@havakalite2:~$

ADIM 1

gcc gcc-c++ gcc-gfortran yüklemek için

sudo apt-get install gcc gcc-c++ gcc-gfortran

ADIM 2

Temel bazı yazılımlar için

sudo apt-get install build-essential

sudo apt-get install m4

ADIM 3

MPI Kurulum

cd Build\_WRFCHEM/library/mpich-3.1.2/

wget http://www.aoddy.com/wp-content/uploads/2014/09/mpich-3.1.2.tar.gz

unzip mpich-3.1.2.tar.gz

tar -xvf mpich-3.1.2.tar

./configure --prefix=/home/havakalite/Build\_WRFCHEM/library/mpich-3.1.2/mpich-install

make

make install

MPI yolunu tanımlamak icin nano ~/.basrc

PATH=/home/havakalite/Build\_WRFCHEM/library/mpich-3.1.2/mpich-install/bin:$PATH;export PATH

ADIM 4

ZLIB Kurulum

wget http://www.aoddy.com/wp-content/uploads/2014/09/zlib-1.2.8.tar.gz

gunzip zlib-1.2.8.tar.gz

tar -xvf zlib-1.2.8.tar

mv zlib-1.2.8/ library/zlib-1.2.8

./configure --prefix=/home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8

make test

make install

ZLIB yolunu tanımlamak icin nano ~/.basrc

export zlib=/home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8

ADIM 5

HDF5 Kurulum

wget http://www.aoddy.com/wp-content/uploads/2014/09/hdf5-1.8.12.tar.gz

gunzip hdf5-1.8.12.tar.gz

tar -xvf hdf5-1.8.12.tar

./configure --prefix=/home/havakalite/Build\_WRFCHEM/library/hdf5-1.8.13 --enable-fortran --enable-cxx --with-zlib=/home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8

make

make test

make install

make check-install

HDF5 yolunu tanımlamak ~/.basrc

export HDF5=/home/havakalite/Build\_WRFCHEM/library/hdf5-1.8.13

ADIM 6

NetCDF4.3.2 Kurulumu

nano ~/.bashrc

export CPPFLAGS="-I/home/havakalite/Build\_WRFCHEM/library/hdf5-1.8.13/include -I/home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8/include -I/home/havakalite/Build\_WRFCHEM /library/netcdf.4.3.2/include"

export LDFLAGS="-L/home/havakalite/Build\_WRFCHEM/library/hdf5-1.8.13/lib -L/home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8/lib -L/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2/lib"

export LD\_LIBRARY\_PATH="/home/havakalite/Build\_WRFCHEM/hdf5-1.8.13/lib /home/havakalite/Build\_WRFCHEM/zlib-1.2.8/lib /home/havakalite/Build\_WRFCHEM/netcdf.4.3.2/lib"

source ~/.bashrc

netCDF için yeni bir klasor olusturulur. Bu klasör paket açılan klasörden farklıdır

mkdir netcdf.4.3.2

wget http://www.aoddy.com/wp-content/uploads/2014/09/netcdf-4.3.2.tar.gz

gunzip netcdf-4.3.2.tar.gz

tar –xvf netcdf-4.3.2.tar.gz

mv netcdf-4.3.2 library/netcdf-4.3.2

./configure --prefix=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2 FC=gfortran F77=gfortran CC=gcc --enable-shared

make

make check

make install

nano ~/.bashrc

export NetCDF=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2

export NETCDF\_LIB=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2/lib

export NETCDF\_INC=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2/include

ADIM 7

netcdf-fortran-4.4.0 Kurulumu aynı klasörde devam edilir. Herhangi bir dosya indirilmez

./configure --prefix=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2 FC=gfortran F77=gfortran CC=gcc --enable-shared 2>&1 | tee configure.log

make

make check

make install

ADIM 8

netcdf-cxx4-4.2 Kurulumu aynı klasörde devam edilir. Herhangi bir dosya indirilmez

./configure --prefix=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2 FC=gfortran F77=gfortran CC=gcc --enable-shared 2>&1 | tee configure.log

make

make check

make install

ADIM 9

Jasper Kurulumu

wget http://www.aoddy.com/wp-content/uploads/2014/09/jasper-1.701.0.tar.gz

mv jasper-1.701.0/ library/jasper-1.701.0/

./configure --prefix=/home/havakalite/Build\_WRFCHEM/library/jasper-1.900.1

make

make check

make install

nano ~/.bashrc

export jasper=/home/havakalite/Build\_WRFCHEM/library/jasper-1.900.1

export JASPERLIB=/home/havakalite/Build\_WRFCHEM/library/jasper-1.900.1/lib

export JASPERINC=/home/havakalite/Build\_WRFCHEM/library/jasper-1.900.1/include

ADIM 10

Lipng Kurulumu

Wget http://www.aoddy.com/wp-content/uploads/2014/09/libpng-1.6.12.tar.gz

gunzip libpng-1.6.12.tar.gz

tar -xvf libpng-1.6.12.tar

./configure --prefix=/home/havakalite/Build\_WRFCHEM/library/libpng-1.6.9

make

make check

make install

nano ~/.bashrc

export libpng=/home/havakalite/Build\_WRFCHEM/library/libpng-1.6.9

ADIM 11

Burf Kurulumu

wget http://www.aoddy.com/wp-content/uploads/2014/09/bufr.tar.gz

gunzip xvfz bufr.tar.gz

cd bufr

gcc -c \*.c

gfortran -c -DUNDERSCORE \*.f

ar -ru libbufr.a \*.o

nano ~/.bashrc file by adding :

export BUFR=/home/havakalite/Build\_WRFCHEM/library/bufr

ADIM 12

 .bashrc dosyasi kontrolu

PATH=/home/havakalite/Build\_WRFCHEM/library/mpich-3.1.2/mpich-install/bin:$PATH;export PATH

export HDF5=/home/havakalite/Build\_WRFCHEM/library/hdf5-1.8.12

export BUFR=/home/havakalite/Build\_WRFCHEM/library/bufr

export NetCDF=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2

export NETCDF=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2

export NETCDF\_LIB=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2/lib

export NETCDF\_INC=/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2/include

export jasper=/home/havakalite/Build\_WRFCHEM/library/jasper-1.701.0

export JASPERLIB=/home/havakalite/Build\_WRFCHEM/library/jasper-1.701.0/lib

export JASPERINC=/home/havakalite/Build\_WRFCHEM/library/jasper-1.701.0/include

export libpng=/home/havakalite/Build\_WRFCHEM/library/libpng-1.6.12

export zlib=/home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8

export CPPFLAGS=”-I/home/havakalite/Build\_WRFCHEM/library/hdf5-1.8.12/include -I/home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8/include -I/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2/include”

export LDFLAGS=”-L/home/havakalite/Build\_WRFCHEM/library/hdf5-1.8.13/lib -L/home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8/lib -L/home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2/lib”

export LD\_LIBRARY\_PATH=”/home/havakalite/Build\_WRFCHEM/library/hdf5-1.8.12/lib /home/havakalite/Build\_WRFCHEM/library/zlib-1.2.8/lib /home/havakalite/Build\_WRFCHEM/library/netcdf.4.3.2/lib”

export WRFIO\_NCD\_LARGE\_FILE\_SUPPORT=1

ADIM 13

WRFV3.6.1 kurulum http://www2.mmm.ucar.edu/wrf/users/download/get\_sources.html#WRF-Chem

http://www2.mmm.ucar.edu/wrf/users/wrfda/updates-3.6.1.html

wget http://www2.mmm.ucar.edu/wrf/src/WRFV3.6.1.TAR.gz

wget http://www2.mmm.ucar.edu/wrf/src/WPSV3.6.1.TAR.gz

wget http://www2.mmm.ucar.edu/wrf/src/WRFV3-Chem-3.6.1.TAR.gz

./configure

./compile em\_real 2>&1 | tee compile.log

DM\_FC = mpif90

DM\_CC = mpicc -DMPI2\_SUPPORT -DMPI2\_THREAD\_SUPPORT

http://www2.mmm.ucar.edu/wrf/OnLineTutorial/compilation\_tutorial.php