SHORT HOW2RUN
ETA MODEL

--- UNZIP AND UNTAR MODEL -------------------

tar zxvf worketa.tgz

This will create directory worketa_all

--- SET UP MODEL ENVIRONMENT --------------

in ... worketa_all
run ... ./setup LINUX

--- CHECK FORTRAN COMPILER ----------------

For preprocessing in file:

worketa_all/dprep/src/configure/make.inc

set :

FC   = pgf90

For model in file:

worketa_all/eta/src/configure/make.inc

set :

FC = pgf90
MPI_FC=mpif90
CC = /lib/cpp -traditional-cpp
FFLAGS = -fast -DLITTLE

--- LIBRARIES COMPILATION --------------------

Libraries compilation:

in ... worketa_all/libraries/bacio.source/
run ... ./comp.com
in ... worketa_all/libraries/
run ... ./make_ip_w3
in ... worketa_all/libraries/dummyMPI/
run ... make -f Makefile.linux

This will create files:

worketa_all/libraries/bacio
worketa_all/libraries/iplib
worketa_all/libraries/w3lib
worketa_all/libraries/bufrlib
worketa_all/libraries/dummyMPI/libmpi.a

--- INPUT FILES DECODING -----------------------

GRIB-decoding program compilation:

in ... worketa_all/dprep/install
run ... ./build_dprep

GFS (grib2) files decoding:

in ... worketa_all/dprep/bin
run ... ./inputdata.scr 00 48 06 gfs2

This will create files:

worketa_all/data/prep/YYMMDD000hh.ETA_avn
YY = year
MM = month
DD = day
hh=00,06,12,18,...

--- MODEL RUN --

Build model:

in ... worketa_all/eta/install
run ... ./buildall

Run model pre-processor

in ... worketa_all/eta/bin
run ... ./new_prep.sh

Run model:

in ... worketa_all/eta/runs
run ... ./run.com_mpi

Run post-processor:

in ... worketa_all/eta/runs
run ... ./outjob_special 00 48 06 latlon

Make figures in Grads:

in ... worketa_all/eta/runs
run ... ./plot.sh HHH

HHH = 000,006,012,...048