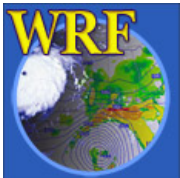

WRF Standard Initialization *runtime options*

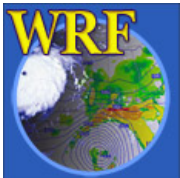
Wei Wang
July 25, 2005



Namelists

- project_id
- filetimespec
- hgridspec
- sfcfiles
- interp_control
- si_paths

Full documentation in
*wrf*si/README.wrf*si_nl* and User's Guide

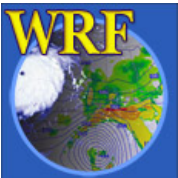


&project_id

&project_id

SIMULATION_NAME = 'WRF Model Simulation'

USER_DESC = 'NCAR/MMM Test Case'

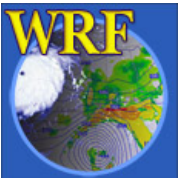


&filetimespec

&filetimespec

START_YEAR = 2000,
START_MONTH = 01,
START_DAY = 24,
START_HOUR = 12,
START_MINUTE = 00,
START_SECOND = 00,
END_YEAR = 2000,
END_MONTH = 01,
END_DAY = 26,
END_HOUR = 00,
END_MINUTE = 00,
END_SECOND = 00,
INTERVAL = 21600

Controlled by command
line options when
running the perl script



&hgridspec

&hgridspec

NUM_DOMAINS = 2

XDIM = 74,

YDIM = 61,

PARENT_ID = 1, 1,

RATIO_TO_PARENT = 1, 3,

DOMAIN_ORIGIN_LLI = 1, 31,

DOMAIN_ORIGIN_LLJ = 1, 17,

DOMAIN_ORIGIN_URJ = 1, 68,

DOMAIN_ORIGIN_URJ = 1, 49,

MAP_PROJ_NAME = 'lambert', (or 'mercator', 'polar')

MOAD_KNOWN_LAT = 34.726,

MOAD_KNOWN_LON = -81.226,

MOAD_STAND_LATS = 30.0, 60.0,

MOAD_STAND_LONS = -98.

MOAD_DELTA_X = 30000.

MOAD_DELTA_Y = 30000.

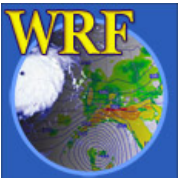
SILAVWT_PARM_WRF = 1.

TOPTWVL_PARM_WRF = 2.

*Nest dimensions are
computed by*

$$xdim(nest\ 1) = (68 - 31) * 3 + 1$$

$$ydim(nest\ 1) = (49 - 17) * 3 + 1$$

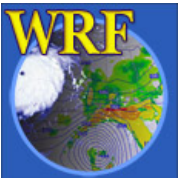


&sfcfiles

&sfcfiles

```
TOPO_30S = '/wrf/wrfhelp/SI_GEOG/topo_30s',  
LANDUSE_30S = '/wrf/wrfhelp/SI_GEOG/landuse_30s',  
SOILTYPE_TOP_30S =  
    '/wrf/wrfhelp/SI_GEOG/soiltype_top_30s',  
SOILTYPE_BOT_30S =  
    '/wrf/wrfhelp/SI_GEOG/soiltype_bot_30s',  
GREENFRAC = '/wrf/wrfhelp/SI_GEOG/greenfrac',  
SOILTEMP_1DEG = '/wrf/wrfhelp/SI_GEOG/soiltemp_1deg',  
ALBEDO_NCEP = '/wrf/wrfhelp/SI_GEOG/albedo_ncep',  
MAXSNOWALB = '/wrf/wrfhelp/SI_GEOG/maxsnowalb',  
ISLOPE = '/wrf/wrfhelp/SI_GEOG/islope',
```

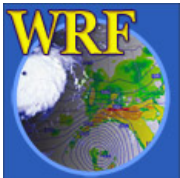
*The root is defined by environment variable:
GEOG_DATAROOT*



&interp_control

&interp_control

```
NUM_ACTIVE_SUBNESTS = 2,    } For activating nest processing
ACTIVE_SUBNESTS = 2,3,      }
PTOP_PA = 5000,
HINTERP_METHOD = 1, (other options: 0, and 2)
LSM_HINTERP_METHOD = 1,
NUM_INIT_TIMES = 1, (do not change)
INIT_ROOT = 'AWIP',
LBC_ROOT = 'AWIP',
LSM_ROOT = "",
CONSTANTS_FULL_NAME = "",
VERBOSE_LOG = .false.,
OUTPUT_COORD = 'ETAP',
LEVELS = 1.000 , 0.990 , 0.978 , 0.964 , 0.946 , 0.922 ,
         0.894 , 0.860 , 0.817 , 0.766 , 0.707 , 0.644 ,
         0.576 , 0.507 , 0.444 , 0.380 , 0.324 , 0.273 ,
         0.228 , 0.188 , 0.152 , 0.121 , 0.093 , 0.069 ,
         0.048 , 0.029 , 0.014 , 0.000
```



&si_paths

&si_paths

ANALPATH = /wrf/wrfhelp/wrfsi/extprd/extprd,

LBCPATH = /wrf/wrfhelp/wrfsi/extprd/extprd,

LSMPATH = /wrf/wrfhelp/wrfsi/extprd/extprd,

CONSTANTS_PATH = \
/wrf/wrfhelp/wrfsi/extprd/extprd,

*The root is defined by environment variable:
EXT_DATAROOT*

