

Globo

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Chapter 1

Modules Index

1.1 Modules List

Here is a list of all modules with brief descriptions:

[mod_model](#) ??

Chapter 2

File Index

2.1 File List

Here is a list of all files with brief descriptions:

bolam.F90	??
dimensions.inc	??

Chapter 3

Module Documentation

3.1 mod_model Module Reference

Functions/Subroutines

- real(4) function [denomin](#) (t1, t2)

Variables

- integer, parameter [gnlon](#) =514
- integer, parameter [gnlat](#) =362
- integer, parameter [nlev](#) =70
- integer, parameter [nprocsx](#) =8
- integer, parameter [nprocsy](#) =6
- integer, parameter [nlevg](#) =7
- integer, parameter [npolcap](#) =6
- integer, parameter [nfou](#) =(gnlon-2)/2
- logical [nlbfix](#)
- logical [nlcadj](#)
- logical [nlwshf](#)
- logical [nlana](#)
- logical, parameter [nlclim](#) =.true.
- integer [nstep](#)
- integer [ntsbou](#)
- integer [nbc](#)
- integer [nhist](#)
- integer [ndrunt](#)
- integer [ntsrc](#)
- integer [ntswshf](#)
- integer [nradm](#)
- integer [ntop](#)
- integer [nadj](#)
- integer [nbl](#)
- real(4) [dtstep](#)
- real(4) [anu2](#)
- real(4) [anu2v](#)
- real(4) [ddamp](#)

- real(4) `hrun`
- real(4) `hbound`
- real(4) `hist`
- real(4) `hdiag`
- real(4) `mradconv`
- real(4) `mshwshf`
- real(4) `lon_ini`
- real(4) `lon_fin`
- real(4) `lat_ini`
- real(4) `lat_fin`
- integer, parameter `nlon` $= (\text{gnlon} - 2) / \text{nprocsx} + 2$
- integer, parameter `nlat` $= (\text{gnlat} - 2) / \text{nprocsy} + 2$
- integer, parameter `nst` = 14
- integer, parameter `nvt` = 13
- integer, parameter `nlonm1` = `nlon` - 1
- integer, parameter `nlatm1` = `nlat` - 1
- integer, parameter `nlevp1` = `nlev` + 1
- integer, parameter `nbuffer` $= 2 * \max(\text{nlon}, \text{nlat}) * \text{nlev}$
- integer `nyrin`
- integer `nmonin`
- integer `ndayin`
- integer `nhouin`
- integer `nminin`
- integer `myid`
- integer `ip_e`
- integer `ip_n`
- integer `ip_s`
- integer `ip_w`
- integer `ip_null`
- integer `comm_row`
- real(4) `alon0`
- real(4) `alat0`
- real(4) `dlon`
- real(4) `dlat`
- real(4) `x0`
- real(4) `y0`
- real(4) `dx`
- real(4) `dy`
- real(4) `alfa`
- real(4) `pzer`
- real(4) `d1`
- real(4) `d2`
- real(4) `d3`
- real(4) `d4`
- real(4) `dt`
- real(4) `alp0`
- real(4) `psmin`
- real(4) `co2ppm`
- real(4) `rdecli0`
- real(4) `reqtim0`
- real(4) `zc0`
- real(4), parameter `yliv` = 2834170.5
- real(4), parameter `yliw` = 333560.5
- real(4), parameter `ylwv` = `yliv` - `yliw`
- real(4), parameter `tzer` = 273.15

- real(4), parameter `ezer` = 611.
- real(4), parameter `rd` =287.05
- real(4), parameter `rv` =461.51
- real(4), parameter `eps` =`rd/rv`
- real(4), parameter `cpd` =1004.6
- real(4), parameter `cvd` =`cpd-rd`
- real(4), parameter `cpv` =1869.46
- real(4), parameter `cw` =4186.8
- real(4), parameter `ci` =`cw/2`.
- real(4), parameter `ep` =`1./eps-1`.
- real(4), parameter `gamma` =`cpd/cvd`
- real(4), parameter `rdrcp` =`rd/cpd`
- real(4), parameter `a` =6371.e3
- real(4), parameter `g` =9.807
- real(4), parameter `omega` =7.292e-5
- real(4), parameter `pi` =3.14159265
- real(4), parameter `tkemin` =1.e-5
- integer, dimension(50) `nfdr0`
- integer, dimension(50) `nfdr`
- integer, dimension(50) `nfdrs`
- real(4), dimension(200) `pdr0`
- real(4), dimension(200) `pdr`
- real(4), dimension(`nlev`) `dsig`
- real(4), dimension(`nlev`) `sigint`
- real(4), dimension(`nlev`) `huc`
- real(4), dimension(`nlev`) `aka`
- real(4), dimension(`nlev`) `bika`
- real(4), dimension(`nlev`) `dbika`
- real(4), dimension(`nlon`) `bndrel`
- real(4), dimension(`nlat`) `hxt`
- real(4), dimension(`nlat`) `hst`
- real(4), dimension(`nlat`) `h xv`
- real(4), dimension(`nlat`) `tangu`
- real(4), dimension(`nlat`) `tangv`
- real(4), dimension(`nlevp1`) `sig`
- real(4), dimension(`nlevp1`) `akai`
- real(4), dimension(`nlevp1`) `bikai`
- real(4), dimension(`nlevp1`) `dbikai`
- real(4), dimension(`nlevg`) `d`
- real(4), dimension(`nlevg`) `lev_soil`
- real(4), dimension(`nlon`, `nlat`) `ps`
- real(4), dimension(`nlon`, `nlat`) `pst`
- real(4), dimension(`nlon`, `nlat`) `fmask`
- real(4), dimension(`nlon`, `nlat`) `phig`
- real(4), dimension(`nlon`, `nlat`) `tskin`
- real(4), dimension(`nlon`, `nlat`) `qskin`
- real(4), dimension(`nlon`, `nlat`) `cloudt`
- real(4), dimension(`nlon`, `nlat`) `albedo`
- real(4), dimension(`nlon`, `nlat`) `rgm`
- real(4), dimension(`nlon`, `nlat`) `rgq`
- real(4), dimension(`nlon`, `nlat`) `rgmd`
- real(4), dimension(`nlon`, `nlat`) `totpre`
- real(4), dimension(`nlon`, `nlat`) `conpre`
- real(4), dimension(`nlon`, `nlat`) `snfall`
- real(4), dimension(`nlon`, `nlat`) `snow`

- `real(4), dimension(nlon, nlat) fsnow`
- `real(4), dimension(nlon, nlat) raicon`
- `real(4), dimension(nlon, nlat) snocon`
- `real(4), dimension(nlon, nlat) rains`
- `real(4), dimension(nlon, nlat) snowls`
- `real(4), dimension(nlon, nlat) tgclim`
- `real(4), dimension(nlon, nlat) qgclim`
- `real(4), dimension(nlon, nlat) fveg`
- `real(4), dimension(nlon, nlat) lai`
- `real(4), dimension(nlon, nlat) proot`
- `real(4), dimension(nlon, nlat) qgref`
- `real(4), dimension(nlon, nlat) qgwilt`
- `real(4), dimension(nlon, nlat) qgmin`
- `real(4), dimension(nlon, nlat) qgmax`
- `real(4), dimension(nlon, nlat) rowkw`
- `real(4), dimension(nlon, nlat) rogcg`
- `real(4), dimension(nlon, nlat) psig`
- `real(4), dimension(nlon, nlat) bex`
- `real(4), dimension(nlon, nlat) roscd`
- `real(4), dimension(nlon, nlat) wveg`
- `real(4), dimension(nlon, nlat) qsat`
- `real(4), dimension(nlon, nlat) fvegs`
- `real(4), dimension(nlon, nlat) fwetl`
- `real(4), dimension(nlon, nlat) cw1`
- `real(4), dimension(nlon, nlat) cw2`
- `real(4), dimension(nlon, nlat) cw3`
- `real(4), dimension(nlon, nlat) qveg`
- `real(4), dimension(nlon, nlat) deriv`
- `real(4), dimension(nlon, nlat) hflux`
- `real(4), dimension(nlon, nlat) qflux`
- `real(4), dimension(nlon, nlat) frirr`
- `real(4), dimension(nlon, nlat) frvis`
- `real(4), dimension(nlon, nlat) emisg1`
- `real(4), dimension(nlon, nlat) emisg2`
- `real(4), dimension(nlon, nlat) fice`
- `real(4), dimension(nlon, nlat) alont`
- `real(4), dimension(nlon, nlat) alatt`
- `real(4), dimension(nlon, nlat) fcorio`
- `real(4), dimension(nlon, nlat) t2`
- `real(4), dimension(nlon, nlat) t2min`
- `real(4), dimension(nlon, nlat) t2max`
- `real(4), dimension(nlon, nlat) cswfl`
- `real(4), dimension(nlon, nlat) clwfl`
- `real(4), dimension(nlon, nlat) chflux`
- `real(4), dimension(nlon, nlat) cqflux`
- `real(4), dimension(nlon, nlat) psb1`
- `real(4), dimension(nlon, nlat) psb2`
- `real(4), dimension(nlon, nlat) ustar`
- `real(4), dimension(nlon, nlat) tstar`
- `real(4), dimension(nlon, nlat) rought`
- `real(4), dimension(nlon, nlat) psih`
- `real(4), dimension(nlon, nlat) bvf`
- `real(4), dimension(nlon, nlat) u10`
- `real(4), dimension(nlon, nlat) v10`
- `real(4), dimension(nlon, nlat) q2`

- real(4), dimension(nlon, nlat) qprec
- real(4), dimension(nlon, nlat) qprecc
- real(4), dimension(nlon, nlat) qsnfall
- real(4), dimension(nlon, nlat) dfrvis
- real(4), dimension(nlon, nlat) solar
- real(4), dimension(nlon, nlat) runoff
- real(4), dimension(nlon, nlat) fices
- real(4), dimension(nlon, nlat) frvisr
- real(4), dimension(nlon, nlat) snowfor
- real(4), dimension(nlon, nlat) iceth
- real(4), dimension(nlon, nlat) lapse_rate
- real(4), dimension(nlon, nlat) hsnc
- real(4), dimension(nlon, nlat) fsnowmax
- real(4), dimension(nlon, nlat) shf_accum
- real(4), dimension(nlon, nlat) lhs_accum
- real(4), dimension(nlon, nlat) qf_accum
- real(4), dimension(nlon, nlat) gust
- real(4), dimension(nlon, nlat) gust_max
- real(4), dimension(nlon, nlat) orogstd
- real(4), dimension(nlon, nlat) alsn
- real(4), dimension(nlon, nlat) snage
- real(4), dimension(nlon, nlat) totprec
- real(4), dimension(nlon, nlat) conprec
- real(4), dimension(nlon, nlat) tganom
- real(4), dimension(gnlon, gnlat) gfield
- real(4), dimension(gnlon, gnlat) gfield1
- real(4), dimension(nlon, nlat, nlev) tg
- real(4), dimension(nlon, nlat, nlev) qg
- real(4), dimension(nlon, nlat, nlev) qgice
- real(4), dimension(nlon, nlat, nlev) tvirt
- real(4), dimension(nlon, nlat, nlev) u
- real(4), dimension(nlon, nlat, nlev) v
- real(4), dimension(nlon, nlat, nlev) t
- real(4), dimension(nlon, nlat, nlev) q
- real(4), dimension(nlon, nlat, nlev) qcw
- real(4), dimension(nlon, nlat, nlev) qci
- real(4), dimension(nlon, nlat, nlev) qrain
- real(4), dimension(nlon, nlat, nlev) qsnow
- real(4), dimension(nlon, nlat, nlev) qhail
- real(4), dimension(nlon, nlat, nlev) phi
- real(4), dimension(nlon, nlat, nlev) omeg
- real(4), dimension(nlon, nlat, nlev) dttd
- real(4), dimension(nlon, nlat, nlev) dqdt
- real(4), dimension(nlon, nlat, nlev) dqcwdt
- real(4), dimension(nlon, nlat, nlev) dqcidt
- real(4), dimension(nlon, nlat, nlev) dqrndt
- real(4), dimension(nlon, nlat, nlev) dqsndt
- real(4), dimension(nlon, nlat, nlev) div1
- real(4), dimension(nlon, nlat, nlev) div2
- real(4), dimension(nlon, nlat, nlev) fcloud
- real(4), dimension(nlon, nlat, nlev) ut
- real(4), dimension(nlon, nlat, nlev) vt
- real(4), dimension(nlon, nlat, nlev) ub1
- real(4), dimension(nlon, nlat, nlev) vb1
- real(4), dimension(nlon, nlat, nlev) tb1

- real(4), dimension(nlon, nlat, nlev) qb1
- real(4), dimension(nlon, nlat, nlev) qcwb1
- real(4), dimension(nlon, nlat, nlev) qcib1
- real(4), dimension(nlon, nlat, nlev) ub2
- real(4), dimension(nlon, nlat, nlev) vb2
- real(4), dimension(nlon, nlat, nlev) tb2
- real(4), dimension(nlon, nlat, nlev) qb2
- real(4), dimension(nlon, nlat, nlev) qcwb2
- real(4), dimension(nlon, nlat, nlev) qcib2
- real(4), dimension(nlon, nlat, nlev) tket
- real(4), dimension(nlon, nlat, nlevp1) sigdot
- real(4), dimension(nlon, nlat, nlevp1) phih
- real(4), dimension(nlon, nlat, nlevp1) tke
- real(4), dimension(nlon, nlat, nlevp1) lml
- real(4), dimension(nlon, nlat, nlevp1) rich
- real(4), dimension(nlon, nlat, 21) soilvegpar
- real(4), dimension(nlon, nlat, nst) suolo
- real(4), dimension(nlon, nlat, nvt) vegeta
- real(4), dimension(nlon, nlat, 73) tgcist
- real(4), dimension(nlon, nlat, 73) ficcist
- integer, parameter n_std_lev_atm = 5
- integer, parameter n_std_lev_soil = 0
- integer, dimension(nlon, nlat) n_std_lev_sl
- integer, dimension(nlon, nlat) nroot
- real(4), dimension(n_std_lev_atm) std_lev_atm = (/2., 10., 50., 80., 100./)
- real(4), dimension(n_std_lev_soil) std_lev_soil
- real(4), dimension(nlon, nlat, n_std_lev_atm) t_std_lev
- real(4), dimension(nlon, nlat, n_std_lev_atm) u_std_lev
- real(4), dimension(nlon, nlat, n_std_lev_atm) v_std_lev
- real(4), dimension(nlon, nlat, n_std_lev_atm) q_std_lev
- real(4), dimension(nlon, nlat, n_std_lev_atm) rh_std_lev
- real(4), dimension(nlon, nlat, n_std_lev_atm) td_std_lev
- real(4), dimension(nlon, nlat, n_std_lev_soil) tg_std_lev
- real(4), dimension(nlon, nlat, n_std_lev_soil) qg_std_lev
- real(4), parameter ccw1 = (cpv-cw)/rv
- real(4), parameter ccw2 = ylvv/tzer/rv-ccw1
- real(4), parameter cci1 = (cpv-ci)/rv
- real(4), parameter cci2 = yliv/tzer/rv-cci1
- integer, parameter nlonr = nlon/2-1
- integer, parameter mcica = 0
- real(4), dimension(nlon, nlat, nlev) ozon
- real(4), dimension(nlon, nlat, nlev) aerotot
- real(4), dimension(nlon, nlat, nlev, 6) aerosol
- real(4), dimension(nlon, nlat) corvis
- real(4), dimension(nlon, nlat) corirr
- real(4), dimension(nlon, nlat) gelvis
- real(4), dimension(nlon, nlat) gelirr
- real(4), dimension(nlon, nlat, nlev) corrdt
- real(4), dimension(nlon, nlat, nlev) geldt
- real(4), dimension(nlon, nlat, nlev) anu3d
- integer imhf = 0
- integer ishf = 0
- integer ip_oppo
- real(4) cpole
- integer, dimension(nlat) nsweep

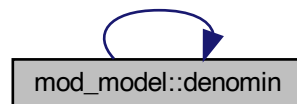
- real(4), dimension(nlon, nfou) `snt`
- real(4), dimension(nlon, nfou) `cst`
- real(4), dimension(nlon, nlat) `olr`
- real(4), dimension(nlon, nlat) `olrtot`
- real(4), dimension(nlon, nlat) `olrtotc`
- real(4), dimension(nlat) `filtt1`
- real(4), dimension(nlat) `filtu1`
- real(4), dimension(nlat) `filtv1`
- logical, parameter `nlag = .false.`
- real(4), dimension(nlon, nlat, nlev) `uf`
- real(4), dimension(nlon, nlat, nlev) `vf`
- real(4), dimension(nlon, nlat, nlev) `tf`
- real(4), dimension(nlon, nlat, nlev) `qf`
- real(4), dimension(nlon, nlat, nlev) `qcwf`
- real(4), dimension(nlon, nlat, nlev) `qcif`

3.1.1 Function/Subroutine Documentation

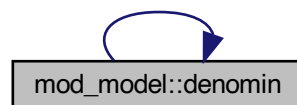
3.1.1.1 `denomin()`

```
real(4) function mod_model::denomin (  
    real(4) t1,  
    real(4) t2 )
```

Here is the call graph for this function:



Here is the caller graph for this function:



3.1.2 Variable Documentation

3.1.2.1 a

`real(4), parameter mod_model::a =6371.e3`

3.1.2.2 aerosol

`real(4), dimension(nlon,nlat,nlev,6) mod_model::aerosol`

3.1.2.3 aerotot

`real(4), dimension(nlon,nlat,nlev) mod_model::aerotot`

3.1.2.4 aka

`real(4), dimension(nlev) mod_model::aka`

3.1.2.5 akai

`real(4), dimension(nlevp1) mod_model::akai`

3.1.2.6 alat0

`real(4) mod_model::alat0`

3.1.2.7 alatt

`real(4), dimension(nlon,nlat) mod_model::alatt`

3.1.2.8 albedo

```
real(4), dimension(nlon,nlat) mod_model::albedo
```

3.1.2.9 alfa

```
real(4) mod_model::alfa
```

3.1.2.10 alon0

```
real(4) mod_model::alon0
```

3.1.2.11 alont

```
real(4), dimension(nlon,nlat) mod_model::alont
```

3.1.2.12 alp0

```
real(4) mod_model::alp0
```

3.1.2.13 alsn

```
real(4), dimension(nlon,nlat) mod_model::alsn
```

3.1.2.14 anu2

```
real(4) mod_model::anu2
```

3.1.2.15 anu2v

```
real(4) mod_model::anu2v
```

3.1.2.16 anu3d

```
real(4), dimension(nlon,nlat,nlev) mod_model::anu3d
```

3.1.2.17 bex

```
real(4), dimension(nlon,nlat) mod_model::bex
```

3.1.2.18 bika

```
real(4), dimension(nlev) mod_model::bika
```

3.1.2.19 bikai

```
real(4), dimension(nlevp1) mod_model::bikai
```

3.1.2.20 bndrel

```
real(4), dimension(nlon) mod_model::bndrel
```

3.1.2.21 bvf

```
real(4), dimension(nlon,nlat) mod_model::bvf
```

3.1.2.22 cci1

```
real(4), parameter mod_model::cci1 =(cpv-ci)/rv
```

3.1.2.23 cci2

```
real(4), parameter mod_model::cci2 =yliv/tzer/rv-cci1
```


3.1.2.24 ccw1

```
real(4), parameter mod_model::ccw1 = (cpv-cw)/rv
```

3.1.2.25 ccw2

```
real(4), parameter mod_model::ccw2 = ylvw/tzer/rv-ccw1
```

3.1.2.26 chflux

```
real(4), dimension(nlon,nlat) mod_model::chflux
```

3.1.2.27 ci

```
real(4), parameter mod_model::ci = cw/2.
```

3.1.2.28 cloudt

```
real(4), dimension(nlon,nlat) mod_model::cloudt
```

3.1.2.29 clwfl

```
real(4), dimension(nlon,nlat) mod_model::clwfl
```

3.1.2.30 co2ppm

```
real(4) mod_model::co2ppm
```

3.1.2.31 comm_row

```
integer mod_model::comm_row
```

3.1.2.32 conpre

```
real(4), dimension(nlon,nlat) mod_model::conpre
```

3.1.2.33 conprec

```
real(4), dimension(nlon,nlat) mod_model::conprec
```

3.1.2.34 corirr

```
real(4), dimension(nlon,nlat) mod_model::corirr
```

3.1.2.35 corrdt

```
real(4), dimension(nlon,nlat,nlev) mod_model::corrdt
```

3.1.2.36 corvis

```
real(4), dimension(nlon,nlat) mod_model::corvis
```

3.1.2.37 cpd

```
real(4), parameter mod_model::cpd =1004.6
```

3.1.2.38 cpole

```
real(4) mod_model::cpole
```

3.1.2.39 cpv

```
real(4), parameter mod_model::cpv =1869.46
```

3.1.2.40 cqflux

```
real(4), dimension(nlon,nlat) mod_model::cqflux
```

3.1.2.41 cst

```
real(4), dimension(nlon,nfou) mod_model::cst
```

3.1.2.42 cswfl

```
real(4), dimension(nlon,nlat) mod_model::cswfl
```

3.1.2.43 cvd

```
real(4), parameter mod_model::cvd =cpd-rd
```

3.1.2.44 cw

```
real(4), parameter mod_model::cw =4186.8
```

3.1.2.45 cw1

```
real(4), dimension(nlon,nlat) mod_model::cw1
```

3.1.2.46 cw2

```
real(4), dimension(nlon,nlat) mod_model::cw2
```

3.1.2.47 cw3

```
real(4), dimension(nlon,nlat) mod_model::cw3
```

3.1.2.48 d

```
real(4), dimension(nlevg) mod_model::d
```

3.1.2.49 d1

```
real(4) mod_model::d1
```

3.1.2.50 d2

```
real(4) mod_model::d2
```

3.1.2.51 d3

```
real(4) mod_model::d3
```

3.1.2.52 d4

```
real(4) mod_model::d4
```

3.1.2.53 dbika

```
real(4), dimension(nlev) mod_model::dbika
```

3.1.2.54 dbikai

```
real(4), dimension(nlevp1) mod_model::dbikai
```

3.1.2.55 ddamp

```
real(4) mod_model::ddamp
```

3.1.2.56 deriv

```
real(4), dimension(nlon,nlat) mod_model::deriv
```

3.1.2.57 dfrvis

```
real(4), dimension(nlon,nlat) mod_model::dfrvis
```

3.1.2.58 div1

```
real(4), dimension(nlon,nlat,nlev) mod_model::div1
```

3.1.2.59 div2

```
real(4), dimension(nlon,nlat,nlev) mod_model::div2
```

3.1.2.60 dlat

```
real(4) mod_model::dlat
```

3.1.2.61 dlon

```
real(4) mod_model::dlon
```

3.1.2.62 dqcidt

```
real(4), dimension(nlon,nlat,nlev) mod_model::dqcidt
```

3.1.2.63 dqcwdt

```
real(4), dimension(nlon,nlat,nlev) mod_model::dqcwdt
```

3.1.2.64 dqdt

```
real(4), dimension(nlon,nlat,nlev) mod_model::dqdt
```

3.1.2.65 dqrndt

```
real(4), dimension(nlon,nlat,nlev) mod_model::dqrndt
```

3.1.2.66 dqsndt

```
real(4), dimension(nlon,nlat,nlev) mod_model::dqsndt
```

3.1.2.67 dsig

```
real(4), dimension(nlev) mod_model::dsig
```

3.1.2.68 dt

```
real(4) mod_model::dt
```

3.1.2.69 dtdt

```
real(4), dimension(nlon,nlat,nlev) mod_model::dtdt
```

3.1.2.70 dtstep

```
real(4) mod_model::dtstep
```

3.1.2.71 dx

```
real(4) mod_model::dx
```

3.1.2.72 dy

```
real(4) mod_model::dy
```

3.1.2.73 emisg1

```
real(4), dimension(nlon,nlat) mod_model::emisg1
```

3.1.2.74 emisg2

```
real(4), dimension(nlon,nlat) mod_model::emisg2
```

3.1.2.75 ep

```
real(4), parameter mod_model::ep =1./eps-1.
```

3.1.2.76 eps

```
real(4), parameter mod_model::eps =rd/rv
```

3.1.2.77 ezer

```
real(4), parameter mod_model::ezer = 611.
```

3.1.2.78 fcloud

```
real(4), dimension(nlon,nlat,nlev) mod_model::fcloud
```

3.1.2.79 fcorio

```
real(4), dimension(nlon,nlat) mod_model::fcorio
```

3.1.2.80 fice

```
real(4), dimension(nlon,nlat) mod_model::fice
```

3.1.2.81 ficecist

```
real(4), dimension(nlon,nlat,73) mod_model::ficecist
```

3.1.2.82 fices

```
real(4), dimension(nlon,nlat) mod_model::fices
```

3.1.2.83 filtt1

```
real(4), dimension(nlat) mod_model::filtt1
```

3.1.2.84 filtu1

```
real(4), dimension(nlat) mod_model::filtu1
```

3.1.2.85 filtv1

```
real(4), dimension(nlat) mod_model::filtv1
```

3.1.2.86 fmask

```
real(4), dimension(nlon,nlat) mod_model::fmask
```

3.1.2.87 frirr

```
real(4), dimension(nlon,nlat) mod_model::frirr
```


3.1.2.88 frvis

```
real(4), dimension(nlon,nlat) mod_model::frvis
```

3.1.2.89 frvisr

```
real(4), dimension(nlon,nlat) mod_model::frvisr
```

3.1.2.90 fsnow

```
real(4), dimension(nlon,nlat) mod_model::fsnow
```

3.1.2.91 fsnowmax

```
real(4), dimension(nlon,nlat) mod_model::fsnowmax
```

3.1.2.92 fveg

```
real(4), dimension(nlon,nlat) mod_model::fveg
```

3.1.2.93 fvegs

```
real(4), dimension(nlon,nlat) mod_model::fvegs
```

3.1.2.94 fwetl

```
real(4), dimension(nlon,nlat) mod_model::fwetl
```

3.1.2.95 g

```
real(4), parameter mod_model::g =9.807
```

3.1.2.96 gamma

```
real(4), parameter mod_model::gamma =cpd/cvd
```

3.1.2.97 geldt

```
real(4), dimension(nlon,nlat,nlev) mod_model::geldt
```

3.1.2.98 gelirr

```
real(4), dimension(nlon,nlat) mod_model::gelirr
```

3.1.2.99 gelvis

```
real(4), dimension(nlon,nlat) mod_model::gelvis
```

3.1.2.100 gfield

```
real(4), dimension(gnlon,gnlat) mod_model::gfield
```

3.1.2.101 gfield1

```
real(4), dimension(gnlon,gnlat) mod_model::gfield1
```

3.1.2.102 gnlat

```
integer, parameter mod_model::gnlat =362
```

3.1.2.103 gnlon

```
integer, parameter mod_model::gnlon =514
```

3.1.2.104 gust

```
real(4), dimension(nlon,nlat) mod_model::gust
```

3.1.2.105 gust_max

```
real(4), dimension(nlon,nlat) mod_model::gust_max
```

3.1.2.106 hbound

```
real(4) mod_model::hbound
```

3.1.2.107 hdiag

```
real(4) mod_model::hdiag
```

3.1.2.108 hflux

```
real(4), dimension(nlon,nlat) mod_model::hflux
```

3.1.2.109 hist

```
real(4) mod_model::hist
```

3.1.2.110 hrun

```
real(4) mod_model::hrun
```

3.1.2.111 hsnc

```
real(4), dimension(nlon,nlat) mod_model::hsnc
```

3.1.2.112 hst

```
real(4), dimension(nlat) mod_model::hst
```

3.1.2.113 huc

```
real(4), dimension(nlev) mod_model::huc
```

3.1.2.114 hxt

```
real(4), dimension(nlat) mod_model::hxt
```

3.1.2.115 hxv

```
real(4), dimension(nlat) mod_model::hxv
```

3.1.2.116 iceth

```
real(4), dimension(nlon,nlat) mod_model::iceth
```

3.1.2.117 imhf

```
integer mod_model::imhf =0
```

3.1.2.118 ip_e

```
integer mod_model::ip_e
```

3.1.2.119 ip_n

```
integer mod_model::ip_n
```

3.1.2.120 ip_null

```
integer mod_model::ip_null
```

3.1.2.121 ip_oppo

```
integer mod_model::ip_oppo
```

3.1.2.122 ip_s

```
integer mod_model::ip_s
```

3.1.2.123 ip_w

```
integer mod_model::ip_w
```

3.1.2.124 ishf

```
integer mod_model::ishf =0
```

3.1.2.125 lai

```
real(4), dimension(nlon,nlat) mod_model::lai
```

3.1.2.126 lapse_rate

```
real(4), dimension(nlon,nlat) mod_model::lapse_rate
```

3.1.2.127 lat_fin

```
real(4) mod_model::lat_fin
```

3.1.2.128 lat_ini

```
real(4) mod_model::lat_ini
```

3.1.2.129 lev_soil

```
real(4), dimension(nlevg) mod_model::lev_soil
```

3.1.2.130 lhf_accum

```
real(4), dimension(nlon,nlat) mod_model::lhf_accum
```

3.1.2.131 lml

```
real(4), dimension(nlon,nlat,nlevp1) mod_model::lml
```

3.1.2.132 lon_fin

```
real(4) mod_model::lon_fin
```

3.1.2.133 lon_ini

```
real(4) mod_model::lon_ini
```

3.1.2.134 mcica

```
integer, parameter mod_model::mcica = 0
```

3.1.2.135 mradconv

```
real(4) mod_model::mradconv
```

3.1.2.136 mswshf

```
real(4) mod_model::mswshf
```

3.1.2.137 myid

```
integer mod_model::myid
```

3.1.2.138 n_std_lev_atm

```
integer, parameter mod_model::n_std_lev_atm = 5
```

3.1.2.139 n_std_lev_sl

```
integer, dimension(nlon,nlat) mod_model::n_std_lev_sl
```

3.1.2.140 n_std_lev_soil

```
integer, parameter mod_model::n_std_lev_soil = 0
```

3.1.2.141 nadj

```
integer mod_model::nadj
```

3.1.2.142 nbc

```
integer mod_model::nbc
```

3.1.2.143 nbl

```
integer mod_model::nbl
```

3.1.2.144 nbuffer

```
integer, parameter mod_model::nbuffer =2*max(nlon, nlat)*nlev
```

3.1.2.145 ndayin

```
integer mod_model::ndayin
```

3.1.2.146 ndrunt

```
integer mod_model::ndrunt
```

3.1.2.147 nldr

```
integer, dimension(50) mod_model::nldr
```

3.1.2.148 nldr0

```
integer, dimension(50) mod_model::nldr0
```

3.1.2.149 nldr5

```
integer, dimension(50) mod_model::nldr5
```

3.1.2.150 nfou

```
integer, parameter mod_model::nfou =(gnlon-2)/2
```

3.1.2.151 nhist

```
integer mod_model::nhist
```


3.1.2.152 nhouin

```
integer mod_model::nhouin
```

3.1.2.153 nlag

```
logical, parameter mod_model::nlag = .false.
```

3.1.2.154 nlana

```
logical mod_model::nlana
```

3.1.2.155 nlat

```
integer, parameter mod_model::nlat = (gnlat-2)/nprocsy+2
```

3.1.2.156 nlatm1

```
integer, parameter mod_model::nlatm1 =nlat-1
```

3.1.2.157 nlbfix

```
logical mod_model::nlbfix
```

3.1.2.158 nlcadj

```
logical mod_model::nlcadj
```

3.1.2.159 nlclim

```
logical, parameter mod_model::nlclim =.true.
```

3.1.2.160 nlev

integer, parameter mod_model::nlev =70

3.1.2.161 nlevg

integer, parameter mod_model::nlevg =7

3.1.2.162 nlevp1

integer, parameter mod_model::nlevp1 =nlev+1

3.1.2.163 nlon

integer, parameter mod_model::nlon =(gnlon-2)/nprocsx+2

3.1.2.164 nlonm1

integer, parameter mod_model::nlonm1 =nlon-1

3.1.2.165 nlonr

integer, parameter mod_model::nlonr = nlon/2-1

3.1.2.166 nlwshf

logical mod_model::nlwshf

3.1.2.167 nminin

integer mod_model::nminin

3.1.2.168 nmonin

```
integer mod_model::nmonin
```

3.1.2.169 npolcap

```
integer, parameter mod_model::npolcap =6
```

3.1.2.170 nprocsx

```
integer, parameter mod_model::nprocsx =8
```

3.1.2.171 nprocsy

```
integer, parameter mod_model::nprocsy =6
```

3.1.2.172 nradm

```
integer mod_model::nradm
```

3.1.2.173 nroot

```
integer, dimension(nlon,nlat) mod_model::nroot
```

3.1.2.174 nst

```
integer, parameter mod_model::nst =14
```

3.1.2.175 nstep

```
integer mod_model::nstep
```

3.1.2.176 nsweep

integer, dimension([nlat](#)) mod_model::nsweep

3.1.2.177 ntop

integer mod_model::ntop

3.1.2.178 ntsbou

integer mod_model::ntsbou

3.1.2.179 ntsrc

integer mod_model::ntsrc

3.1.2.180 ntswshf

integer mod_model::ntswshf

3.1.2.181 nvt

integer, parameter mod_model::nvt =13

3.1.2.182 nyrin

integer mod_model::nyrin

3.1.2.183 olr

real(4), dimension([nlon](#),[nlat](#)) mod_model::olr

3.1.2.184 olrtot

```
real(4), dimension(nlon,nlat) mod_model::olrtot
```

3.1.2.185 olrtotc

```
real(4), dimension(nlon,nlat) mod_model::olrtotc
```

3.1.2.186 omeg

```
real(4), dimension(nlon,nlat,nlev) mod_model::omeg
```

3.1.2.187 omega

```
real(4), parameter mod_model::omega =7.292e-5
```

3.1.2.188 orogstd

```
real(4), dimension(nlon,nlat) mod_model::orogstd
```

3.1.2.189 ozon

```
real(4), dimension(nlon,nlat,nlev) mod_model::ozon
```

3.1.2.190 pdr

```
real(4), dimension(200) mod_model::pdr
```

3.1.2.191 pdr0

```
real(4), dimension(200) mod_model::pdr0
```

3.1.2.192 phi

```
real(4), dimension(nlon,nlat,nlev) mod_model::phi
```

3.1.2.193 phig

```
real(4), dimension(nlon,nlat) mod_model::phig
```

3.1.2.194 phih

```
real(4), dimension(nlon,nlat,nlevp1) mod_model::phih
```

3.1.2.195 pi

```
real(4), parameter mod_model::pi =3.14159265
```

3.1.2.196 proot

```
real(4), dimension(nlon,nlat) mod_model::proot
```

3.1.2.197 ps

```
real(4), dimension(nlon,nlat) mod_model::ps
```

3.1.2.198 psb1

```
real(4), dimension(nlon,nlat) mod_model::psb1
```

3.1.2.199 psb2

```
real(4), dimension(nlon,nlat) mod_model::psb2
```

3.1.2.200 psig

```
real(4), dimension(nlon,nlat) mod_model::psig
```

3.1.2.201 psih

```
real(4), dimension(nlon,nlat) mod_model::psih
```

3.1.2.202 psmin

```
real(4) mod_model::psmin
```

3.1.2.203 pst

```
real(4), dimension(nlon,nlat) mod_model::pst
```

3.1.2.204 pzer

```
real(4) mod_model::pzer
```

3.1.2.205 q

```
real(4), dimension(nlon,nlat,nlev) mod_model::q
```

3.1.2.206 q2

```
real(4), dimension(nlon,nlat) mod_model::q2
```

3.1.2.207 q_std_lev

```
real(4), dimension(nlon,nlat,n_std_lev_atm) mod_model::q_std_lev
```

3.1.2.208 qb1

```
real(4), dimension(nlon,nlat,nlev) mod_model::qb1
```

3.1.2.209 qb2

```
real(4), dimension(nlon,nlat,nlev) mod_model::qb2
```

3.1.2.210 qci

```
real(4), dimension(nlon,nlat,nlev) mod_model::qci
```

3.1.2.211 qcib1

```
real(4), dimension(nlon,nlat,nlev) mod_model::qcib1
```

3.1.2.212 qcib2

```
real(4), dimension(nlon,nlat,nlev) mod_model::qcib2
```

3.1.2.213 qcif

```
real(4), dimension(nlon,nlat,nlev) mod_model::qcif
```

3.1.2.214 qcw

```
real(4), dimension(nlon,nlat,nlev) mod_model::qcw
```

3.1.2.215 qcwb1

```
real(4), dimension(nlon,nlat,nlev) mod_model::qcwb1
```


3.1.2.216 qcwb2

real(4), dimension(nlon,nlat,nlev) mod_model::qcwb2

3.1.2.217 qcwf

real(4), dimension(nlon,nlat,nlev) mod_model::qcwf

3.1.2.218 qf

real(4), dimension(nlon,nlat,nlev) mod_model::qf

3.1.2.219 qf_accum

real(4), dimension(nlon,nlat) mod_model::qf_accum

3.1.2.220 qflux

real(4), dimension(nlon,nlat) mod_model::qflux

3.1.2.221 qg

real(4), dimension(nlon,nlat,nlevg) mod_model::qg

3.1.2.222 qg_std_lev

real(4), dimension(nlon,nlat,n_std_lev_soil) mod_model::qg_std_lev

3.1.2.223 qgclim

real(4), dimension(nlon,nlat) mod_model::qgclim

3.1.2.224 qgice

```
real(4), dimension(nlon,nlat,nlev) mod_model::qgice
```

3.1.2.225 qgmax

```
real(4), dimension(nlon,nlat) mod_model::qgmax
```

3.1.2.226 qgmin

```
real(4), dimension(nlon,nlat) mod_model::qgmin
```

3.1.2.227 qgref

```
real(4), dimension(nlon,nlat) mod_model::qgref
```

3.1.2.228 qgwilt

```
real(4), dimension(nlon,nlat) mod_model::qgwilt
```

3.1.2.229 qhail

```
real(4), dimension(nlon,nlat,nlev) mod_model::qhail
```

3.1.2.230 qprec

```
real(4), dimension(nlon,nlat) mod_model::qprec
```

3.1.2.231 qprecc

```
real(4), dimension(nlon,nlat) mod_model::qprecc
```

3.1.2.232 qrain

```
real(4), dimension(nlon,nlat,nlev) mod_model::qrain
```

3.1.2.233 qsat

```
real(4), dimension(nlon,nlat) mod_model::qsat
```

3.1.2.234 qskin

```
real(4), dimension(nlon,nlat) mod_model::qskin
```

3.1.2.235 qsnfall

```
real(4), dimension(nlon,nlat) mod_model::qsnfall
```

3.1.2.236 qsnow

```
real(4), dimension(nlon,nlat,nlev) mod_model::qsnow
```

3.1.2.237 qveg

```
real(4), dimension(nlon,nlat) mod_model::qveg
```

3.1.2.238 raicon

```
real(4), dimension(nlon,nlat) mod_model::raicon
```

3.1.2.239 rainls

```
real(4), dimension(nlon,nlat) mod_model::rainls
```

3.1.2.240 rd

```
real(4), parameter mod_model::rd =287.05
```

3.1.2.241 rdecli0

```
real(4) mod_model::rdecli0
```

3.1.2.242 rdrcp

```
real(4), parameter mod_model::rdrcp =rd/cpd
```

3.1.2.243 reqtim0

```
real(4) mod_model::reqtim0
```

3.1.2.244 rgm

```
real(4), dimension(nlon,nlat) mod_model::rgm
```

3.1.2.245 rgmd

```
real(4), dimension(nlon,nlat) mod_model::rgmd
```

3.1.2.246 rgq

```
real(4), dimension(nlon,nlat) mod_model::rgq
```

3.1.2.247 rh_std_lev

```
real(4), dimension(nlon,nlat,n_std_lev_atm) mod_model::rh_std_lev
```

3.1.2.248 rich

```
real(4), dimension(nlon,nlat,nlevp1) mod_model::rich
```

3.1.2.249 rogcg

```
real(4), dimension(nlon,nlat) mod_model::rogcg
```

3.1.2.250 roscd

```
real(4), dimension(nlon,nlat) mod_model::roscd
```

3.1.2.251 rought

```
real(4), dimension(nlon,nlat) mod_model::rought
```

3.1.2.252 rowkw

```
real(4), dimension(nlon,nlat) mod_model::rowkw
```

3.1.2.253 runoff

```
real(4), dimension(nlon,nlat) mod_model::runoff
```

3.1.2.254 rv

```
real(4), parameter mod_model::rv =461.51
```

3.1.2.255 shf_accum

```
real(4), dimension(nlon,nlat) mod_model::shf_accum
```

3.1.2.256 sig

```
real(4), dimension(nlevp1) mod_model::sig
```

3.1.2.257 sigdot

```
real(4), dimension(nlon,nlat,nlevp1) mod_model::sigdot
```

3.1.2.258 sigint

```
real(4), dimension(nlev) mod_model::sigint
```

3.1.2.259 snage

```
real(4), dimension(nlon,nlat) mod_model::snage
```

3.1.2.260 snfall

```
real(4), dimension(nlon,nlat) mod_model::snfall
```

3.1.2.261 snocon

```
real(4), dimension(nlon,nlat) mod_model::snocon
```

3.1.2.262 snow

```
real(4), dimension(nlon,nlat) mod_model::snow
```

3.1.2.263 snowfor

```
real(4), dimension(nlon,nlat) mod_model::snowfor
```

3.1.2.264 snowls

```
real(4), dimension(nlon,nlat) mod_model::snowls
```

3.1.2.265 snt

```
real(4), dimension(nlon,nfou) mod_model::snt
```

3.1.2.266 soilvegpar

```
real(4), dimension(nlon,nlat,21) mod_model::soilvegpar
```

3.1.2.267 solar

```
real(4), dimension(nlon,nlat) mod_model::solar
```

3.1.2.268 std_lev_atm

```
real(4), dimension(n_std_lev_atm) mod_model::std_lev_atm = (/2., 10., 50., 80., 100./)
```

3.1.2.269 std_lev_soil

```
real(4), dimension(n_std_lev_soil) mod_model::std_lev_soil
```

3.1.2.270 suolo

```
real(4), dimension(nlon,nlat,nst) mod_model::suolo
```

3.1.2.271 t

```
real(4), dimension(nlon,nlat,nlev) mod_model::t
```

3.1.2.272 t2

```
real(4), dimension(nlon,nlat) mod_model::t2
```

3.1.2.273 t2max

```
real(4), dimension(nlon,nlat) mod_model::t2max
```

3.1.2.274 t2min

```
real(4), dimension(nlon,nlat) mod_model::t2min
```

3.1.2.275 t_std_lev

```
real(4), dimension(nlon,nlat,n_std_lev_atm) mod_model::t_std_lev
```

3.1.2.276 tangu

```
real(4), dimension(nlat) mod_model::tangu
```

3.1.2.277 tangv

```
real(4), dimension(nlat) mod_model::tangv
```

3.1.2.278 tb1

```
real(4), dimension(nlon,nlat,nlev) mod_model::tb1
```

3.1.2.279 tb2

```
real(4), dimension(nlon,nlat,nlev) mod_model::tb2
```


3.1.2.280 td_std_lev

real(4), dimension(nlon,nlat,n_std_lev_atm) mod_model::td_std_lev

3.1.2.281 tf

real(4), dimension(nlon,nlat,nlev) mod_model::tf

3.1.2.282 tg

real(4), dimension(nlon,nlat,nlevg) mod_model::tg

3.1.2.283 tg_std_lev

real(4), dimension(nlon,nlat,n_std_lev_soil) mod_model::tg_std_lev

3.1.2.284 tganom

real(4), dimension(nlon,nlat) mod_model::tganom

3.1.2.285 tgcist

real(4), dimension(nlon,nlat,73) mod_model::tgcist

3.1.2.286 tgclim

real(4), dimension(nlon,nlat) mod_model::tgclim

3.1.2.287 tke

real(4), dimension(nlon,nlat,nlevp1) mod_model::tke

3.1.2.288 tkemin

```
real(4), parameter mod_model::tkemin =1.e-5
```

3.1.2.289 tket

```
real(4), dimension(nlon,nlat,nlev) mod_model::tket
```

3.1.2.290 totpre

```
real(4), dimension(nlon,nlat) mod_model::totpre
```

3.1.2.291 totprec

```
real(4), dimension(nlon,nlat) mod_model::totprec
```

3.1.2.292 tskin

```
real(4), dimension(nlon,nlat) mod_model::tskin
```

3.1.2.293 tstar

```
real(4), dimension(nlon,nlat) mod_model::tstar
```

3.1.2.294 tvirt

```
real(4), dimension(nlon,nlat,nlev) mod_model::tvirt
```

3.1.2.295 tzer

```
real(4), parameter mod_model::tzer =273.15
```

3.1.2.296 u

real(4), dimension(nlon,nlat,nlev) mod_model::u

3.1.2.297 u10

real(4), dimension(nlon,nlat) mod_model::u10

3.1.2.298 u_std_lev

real(4), dimension(nlon,nlat,n_std_lev_atm) mod_model::u_std_lev

3.1.2.299 ub1

real(4), dimension(nlon,nlat,nlev) mod_model::ub1

3.1.2.300 ub2

real(4), dimension(nlon,nlat,nlev) mod_model::ub2

3.1.2.301 uf

real(4), dimension(nlon,nlat,nlev) mod_model::uf

3.1.2.302 ustar

real(4), dimension(nlon,nlat) mod_model::ustar

3.1.2.303 ut

real(4), dimension(nlon,nlat,nlev) mod_model::ut

3.1.2.304 v

```
real(4), dimension(nlon,nlat,nlev) mod_model::v
```

3.1.2.305 v10

```
real(4), dimension(nlon,nlat) mod_model::v10
```

3.1.2.306 v_std_lev

```
real(4), dimension(nlon,nlat,n_std_lev_atm) mod_model::v_std_lev
```

3.1.2.307 vb1

```
real(4), dimension(nlon,nlat,nlev) mod_model::vb1
```

3.1.2.308 vb2

```
real(4), dimension(nlon,nlat,nlev) mod_model::vb2
```

3.1.2.309 vegeta

```
real(4), dimension(nlon,nlat,nvt) mod_model::vegeta
```

3.1.2.310 vf

```
real(4), dimension(nlon,nlat,nlev) mod_model::vf
```

3.1.2.311 vt

```
real(4), dimension(nlon,nlat,nlev) mod_model::vt
```

3.1.2.312 wveg

```
real(4), dimension(nlon,nlat) mod_model::wveg
```

3.1.2.313 x0

```
real(4) mod_model::x0
```

3.1.2.314 y0

```
real(4) mod_model::y0
```

3.1.2.315 yliv

```
real(4), parameter mod_model::yliv =2834170.5
```

3.1.2.316 yliw

```
real(4), parameter mod_model::yliw =333560.5
```

3.1.2.317 ylvw

```
real(4), parameter mod_model::ylvw =yliv-yliw
```

3.1.2.318 zc0

```
real(4) mod_model::zc0
```

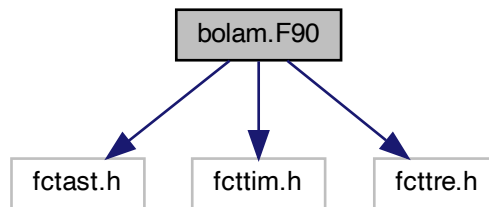

Chapter 4

File Documentation

4.1 bolam.F90 File Reference

```
#include "fctast.h"  
#include "fcttim.h"  
#include "fcttre.h"
```

Include dependency graph for bolam.F90:



Modules

- module [mod_model](#)

Functions/Subroutines

- real(4) function [mod_model::denomin](#) (t1, t2)
- program [bolam](#)
- subroutine [phicomp](#)
- subroutine [rdmhf](#) (nun)
- subroutine [rdgeo](#)
- subroutine [rrec2](#) (kunit, nlon, nlat, vect)
- subroutine [wrmhf](#)
- subroutine [wr_globolam](#)

- subroutine [wrec2](#) (kunit, nlon, nlat, vect)
- subroutine [collect](#) (lfield, gfield)
- subroutine [disperse](#) (gfield, lfield)
- subroutine [diverg](#) (kadj)
- subroutine [wafuv](#) (dt)
- subroutine [wafone](#) (var, dt)
- subroutine [vdiff](#) (pstep)
- subroutine [runout_g](#) (jstep, nyrc, nmonc, ndayc, nhouc, nminc)
- subroutine [runout_b](#) (jstep)
- subroutine [micro](#)
- real function [eugamma](#) (x)
- subroutine [radint](#) (ndayr, nhouc, nminc, infx, rrf)
- subroutine [radial](#)
- subroutine [filt2t](#) (p, anu)
- subroutine [filt2t1](#) (p, anu)
- subroutine [filt2uv](#) (anu)
- subroutine [filt](#) (p, nt, anu2)
- subroutine [surfradpar](#)
- subroutine [calendar](#) (nyrin, nmonin, ndayin, nhouin, nminin, iday, ihou, imin, nyrc, nmonc, ndayc, nhouc, nminc, ndayr)
- subroutine [tridiag](#) (za, zc, psisurf, psi, nlon, nlev, ntop)
- subroutine [wafps](#)
- subroutine [relax](#) (is, gammin, gammax, alpha)
- subroutine [defcft](#) (qcw, qci, t, nlon, nlat, nlev, tzer, nt)
- subroutine [newconv](#) (ltopc)
- subroutine [hliq](#) (hw, z, p, t, q, ql, qi, qlnew, g, cp, cpv, rh)
- subroutine [orogdrag](#) (jstep)
- subroutine [blockdrag](#) (jstep)
- subroutine [wrshf_b](#) (jstep)
- subroutine [wrshf_g](#) (jstep)
- subroutine [comp_esk](#) (esat, qsat, t, p, iflag)
- subroutine [aerdef](#) (nyrc, nmonc, ndayc, nhouc, nminc, infx, infy)
- subroutine [aerdef](#) (nyrc, nmonc, ndayc, nhouc, nminc, infx, infy)
- subroutine [radintec](#) (jlat, jl1, nyrc, nmonc, ndayc, nhouc, nminc, infx, infy, rrf)
- subroutine [cloudfr](#)
- subroutine [ccloud](#)
- subroutine [ccolumn](#) (a, n, prod)
- subroutine [soil](#) (ndayr)
- subroutine [interp](#) (alfa, ex1, ex2, npi, xi, g, x, f, nval)
- subroutine [snow_params](#)
- subroutine [tqmass](#) (ps, q, nlon, nlat, nlev, hxt, dlon, dlat, myid, nprocsx, nprocsy, dsig, dbika, pzer, g, tom)
- subroutine [polavert](#) (p)
- subroutine [polaveruv](#)
- subroutine [slofou1](#) (p, nt, nlwind)
- subroutine [def_veg](#) (idayr)
- subroutine [filt3uv](#)
- subroutine [filt3t](#) (p)
- subroutine [plotout](#) (a, b, n, m, title, nhf)
- subroutine [wrshf_s2s](#) (nhouc)
- subroutine [wremap](#) (kunit)
- subroutine [climupd](#) (infy, ndayr, nyrc, nmonc, iflag)

Variables

- integer, parameter `mod_model::gnlon` =514
- integer, parameter `mod_model::gnlat` =362
- integer, parameter `mod_model::nlev` =70
- integer, parameter `mod_model::nprocsx` =8
- integer, parameter `mod_model::nprocsy` =6
- integer, parameter `mod_model::nlevg` =7
- integer, parameter `mod_model::npolcap` =6
- integer, parameter `mod_model::nfou` =(gnlon-2)/2
- logical `mod_model::nlbfix`
- logical `mod_model::nlcadj`
- logical `mod_model::nlwshf`
- logical `mod_model::nlana`
- logical, parameter `mod_model::nlclim` =.true.
- integer `mod_model::nstep`
- integer `mod_model::nts bou`
- integer `mod_model::nbc`
- integer `mod_model::nhist`
- integer `mod_model::ndrunt`
- integer `mod_model::ntsrc`
- integer `mod_model::ntswshf`
- integer `mod_model::nradm`
- integer `mod_model::ntop`
- integer `mod_model::nadj`
- integer `mod_model::nbl`
- real(4) `mod_model::dtstep`
- real(4) `mod_model::anu2`
- real(4) `mod_model::anu2v`
- real(4) `mod_model::ddamp`
- real(4) `mod_model::hrun`
- real(4) `mod_model::hbound`
- real(4) `mod_model::hist`
- real(4) `mod_model::hdiag`
- real(4) `mod_model::mradconv`
- real(4) `mod_model::mswshf`
- real(4) `mod_model::lon_ini`
- real(4) `mod_model::lon_fin`
- real(4) `mod_model::lat_ini`
- real(4) `mod_model::lat_fin`
- integer, parameter `mod_model::nlon` =(gnlon-2)/nprocsx+2
- integer, parameter `mod_model::nlat` =(gnlat-2)/nprocsy+2
- integer, parameter `mod_model::nst` =14
- integer, parameter `mod_model::nvt` =13
- integer, parameter `mod_model::nlonm1` =nlon-1
- integer, parameter `mod_model::nlatm1` =nlat-1
- integer, parameter `mod_model::nlevp1` =nlev+1
- integer, parameter `mod_model::nbuffer` =2*max(nlon, nlat)*nlev
- integer `mod_model::nyrin`
- integer `mod_model::nmonin`
- integer `mod_model::ndayin`
- integer `mod_model::nhouin`
- integer `mod_model::nminin`
- integer `mod_model::myid`
- integer `mod_model::ip_e`

- integer `mod_model::ip_n`
- integer `mod_model::ip_s`
- integer `mod_model::ip_w`
- integer `mod_model::ip_null`
- integer `mod_model::comm_row`
- real(4) `mod_model::alon0`
- real(4) `mod_model::alat0`
- real(4) `mod_model::dlon`
- real(4) `mod_model::dlat`
- real(4) `mod_model::x0`
- real(4) `mod_model::y0`
- real(4) `mod_model::dx`
- real(4) `mod_model::dy`
- real(4) `mod_model::alfa`
- real(4) `mod_model::pzer`
- real(4) `mod_model::d1`
- real(4) `mod_model::d2`
- real(4) `mod_model::d3`
- real(4) `mod_model::d4`
- real(4) `mod_model::dt`
- real(4) `mod_model::alp0`
- real(4) `mod_model::psmin`
- real(4) `mod_model::co2ppm`
- real(4) `mod_model::rdecli0`
- real(4) `mod_model::reqtim0`
- real(4) `mod_model::zc0`
- real(4), parameter `mod_model::yliv =2834170.5`
- real(4), parameter `mod_model::yliw =333560.5`
- real(4), parameter `mod_model::ylwv =yliv-yliw`
- real(4), parameter `mod_model::tzer =273.15`
- real(4), parameter `mod_model::ezer = 611.`
- real(4), parameter `mod_model::rd =287.05`
- real(4), parameter `mod_model::rv =461.51`
- real(4), parameter `mod_model::eps =rd/rv`
- real(4), parameter `mod_model::cpd =1004.6`
- real(4), parameter `mod_model::cvd =cpd-rd`
- real(4), parameter `mod_model::cpv =1869.46`
- real(4), parameter `mod_model::cw =4186.8`
- real(4), parameter `mod_model::ci =cw/2.`
- real(4), parameter `mod_model::ep =1./eps-1.`
- real(4), parameter `mod_model::gamma =cpd/cvd`
- real(4), parameter `mod_model::rdrcp =rd/cpd`
- real(4), parameter `mod_model::a =6371.e3`
- real(4), parameter `mod_model::g =9.807`
- real(4), parameter `mod_model::omega =7.292e-5`
- real(4), parameter `mod_model::pi =3.14159265`
- real(4), parameter `mod_model::tkemin =1.e-5`
- integer, dimension(50) `mod_model::nfd0`
- integer, dimension(50) `mod_model::nfd`
- integer, dimension(50) `mod_model::nfdrs`
- real(4), dimension(200) `mod_model::pdr0`
- real(4), dimension(200) `mod_model::pdr`
- real(4), dimension(nlev) `mod_model::dsig`
- real(4), dimension(nlev) `mod_model::sigint`
- real(4), dimension(nlev) `mod_model::huc`

- real(4), dimension(nlev) [mod_model::aka](#)
- real(4), dimension(nlev) [mod_model::bika](#)
- real(4), dimension(nlev) [mod_model::dbika](#)
- real(4), dimension(nlon) [mod_model::bndrel](#)
- real(4), dimension(nlat) [mod_model::hxt](#)
- real(4), dimension(nlat) [mod_model::hst](#)
- real(4), dimension(nlat) [mod_model::hxv](#)
- real(4), dimension(nlat) [mod_model::tangu](#)
- real(4), dimension(nlat) [mod_model::tangv](#)
- real(4), dimension(nlevp1) [mod_model::sig](#)
- real(4), dimension(nlevp1) [mod_model::akai](#)
- real(4), dimension(nlevp1) [mod_model::bikai](#)
- real(4), dimension(nlevp1) [mod_model::dbikai](#)
- real(4), dimension(nlevg) [mod_model::d](#)
- real(4), dimension(nlevg) [mod_model::lev_soil](#)
- real(4), dimension(nlon, nlat) [mod_model::ps](#)
- real(4), dimension(nlon, nlat) [mod_model::pst](#)
- real(4), dimension(nlon, nlat) [mod_model::fmask](#)
- real(4), dimension(nlon, nlat) [mod_model::phig](#)
- real(4), dimension(nlon, nlat) [mod_model::tskin](#)
- real(4), dimension(nlon, nlat) [mod_model::qskin](#)
- real(4), dimension(nlon, nlat) [mod_model::cloudt](#)
- real(4), dimension(nlon, nlat) [mod_model::albedo](#)
- real(4), dimension(nlon, nlat) [mod_model::rgm](#)
- real(4), dimension(nlon, nlat) [mod_model::rgq](#)
- real(4), dimension(nlon, nlat) [mod_model::rgmd](#)
- real(4), dimension(nlon, nlat) [mod_model::totpre](#)
- real(4), dimension(nlon, nlat) [mod_model::conpre](#)
- real(4), dimension(nlon, nlat) [mod_model::snfall](#)
- real(4), dimension(nlon, nlat) [mod_model::snow](#)
- real(4), dimension(nlon, nlat) [mod_model::fsnow](#)
- real(4), dimension(nlon, nlat) [mod_model::raicon](#)
- real(4), dimension(nlon, nlat) [mod_model::snocon](#)
- real(4), dimension(nlon, nlat) [mod_model::rains](#)
- real(4), dimension(nlon, nlat) [mod_model::snowls](#)
- real(4), dimension(nlon, nlat) [mod_model::tgclim](#)
- real(4), dimension(nlon, nlat) [mod_model::qgclim](#)
- real(4), dimension(nlon, nlat) [mod_model::fveg](#)
- real(4), dimension(nlon, nlat) [mod_model::lai](#)
- real(4), dimension(nlon, nlat) [mod_model::proot](#)
- real(4), dimension(nlon, nlat) [mod_model::qgref](#)
- real(4), dimension(nlon, nlat) [mod_model::qgwilt](#)
- real(4), dimension(nlon, nlat) [mod_model::qgmin](#)
- real(4), dimension(nlon, nlat) [mod_model::qgmax](#)
- real(4), dimension(nlon, nlat) [mod_model::rowkw](#)
- real(4), dimension(nlon, nlat) [mod_model::rogcg](#)
- real(4), dimension(nlon, nlat) [mod_model::psig](#)
- real(4), dimension(nlon, nlat) [mod_model::bex](#)
- real(4), dimension(nlon, nlat) [mod_model::roscd](#)
- real(4), dimension(nlon, nlat) [mod_model::wveg](#)
- real(4), dimension(nlon, nlat) [mod_model::qsat](#)
- real(4), dimension(nlon, nlat) [mod_model::fvegs](#)
- real(4), dimension(nlon, nlat) [mod_model::fwetl](#)
- real(4), dimension(nlon, nlat) [mod_model::cw1](#)
- real(4), dimension(nlon, nlat) [mod_model::cw2](#)

- real(4), dimension(nlon, nlat) [mod_model::cw3](#)
- real(4), dimension(nlon, nlat) [mod_model::qveg](#)
- real(4), dimension(nlon, nlat) [mod_model::deriv](#)
- real(4), dimension(nlon, nlat) [mod_model::hflux](#)
- real(4), dimension(nlon, nlat) [mod_model::qflux](#)
- real(4), dimension(nlon, nlat) [mod_model::frirr](#)
- real(4), dimension(nlon, nlat) [mod_model::frvis](#)
- real(4), dimension(nlon, nlat) [mod_model::emisg1](#)
- real(4), dimension(nlon, nlat) [mod_model::emisg2](#)
- real(4), dimension(nlon, nlat) [mod_model::fice](#)
- real(4), dimension(nlon, nlat) [mod_model::alont](#)
- real(4), dimension(nlon, nlat) [mod_model::alatt](#)
- real(4), dimension(nlon, nlat) [mod_model::fcorio](#)
- real(4), dimension(nlon, nlat) [mod_model::t2](#)
- real(4), dimension(nlon, nlat) [mod_model::t2min](#)
- real(4), dimension(nlon, nlat) [mod_model::t2max](#)
- real(4), dimension(nlon, nlat) [mod_model::cswfl](#)
- real(4), dimension(nlon, nlat) [mod_model::clwfl](#)
- real(4), dimension(nlon, nlat) [mod_model::chflux](#)
- real(4), dimension(nlon, nlat) [mod_model::cqflux](#)
- real(4), dimension(nlon, nlat) [mod_model::psb1](#)
- real(4), dimension(nlon, nlat) [mod_model::psb2](#)
- real(4), dimension(nlon, nlat) [mod_model::ustar](#)
- real(4), dimension(nlon, nlat) [mod_model::tstar](#)
- real(4), dimension(nlon, nlat) [mod_model::rougnt](#)
- real(4), dimension(nlon, nlat) [mod_model::psih](#)
- real(4), dimension(nlon, nlat) [mod_model::bvf](#)
- real(4), dimension(nlon, nlat) [mod_model::u10](#)
- real(4), dimension(nlon, nlat) [mod_model::v10](#)
- real(4), dimension(nlon, nlat) [mod_model::q2](#)
- real(4), dimension(nlon, nlat) [mod_model::qprec](#)
- real(4), dimension(nlon, nlat) [mod_model::qprecc](#)
- real(4), dimension(nlon, nlat) [mod_model::qsnfall](#)
- real(4), dimension(nlon, nlat) [mod_model::dfrvis](#)
- real(4), dimension(nlon, nlat) [mod_model::solar](#)
- real(4), dimension(nlon, nlat) [mod_model::runoff](#)
- real(4), dimension(nlon, nlat) [mod_model::fices](#)
- real(4), dimension(nlon, nlat) [mod_model::frvisr](#)
- real(4), dimension(nlon, nlat) [mod_model::snowfor](#)
- real(4), dimension(nlon, nlat) [mod_model::iceth](#)
- real(4), dimension(nlon, nlat) [mod_model::lapse_rate](#)
- real(4), dimension(nlon, nlat) [mod_model::hsnc](#)
- real(4), dimension(nlon, nlat) [mod_model::fsnowmax](#)
- real(4), dimension(nlon, nlat) [mod_model::shf_accum](#)
- real(4), dimension(nlon, nlat) [mod_model::lhf_accum](#)
- real(4), dimension(nlon, nlat) [mod_model::qf_accum](#)
- real(4), dimension(nlon, nlat) [mod_model::gust](#)
- real(4), dimension(nlon, nlat) [mod_model::gust_max](#)
- real(4), dimension(nlon, nlat) [mod_model::orogstd](#)
- real(4), dimension(nlon, nlat) [mod_model::alsn](#)
- real(4), dimension(nlon, nlat) [mod_model::snage](#)
- real(4), dimension(nlon, nlat) [mod_model::totprec](#)
- real(4), dimension(nlon, nlat) [mod_model::conprec](#)
- real(4), dimension(nlon, nlat) [mod_model::tganom](#)
- real(4), dimension(gnlon, gnlat) [mod_model::gfield](#)

- real(4), dimension(gnlon, gnlat) [mod_model::gfield1](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::tg](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qg](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qgice](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::tvirt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::u](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::v](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::t](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::q](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qcw](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qci](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qrain](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qsnow](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qhail](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::phi](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::omeg](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::dtdt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::dqdt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::dqcwdt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::dqcidt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::dqrndt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::dqsndt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::div1](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::div2](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::fcloud](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::ut](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::vt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::ub1](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::vb1](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::tb1](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qb1](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qcwb1](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qcib1](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::ub2](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::vb2](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::tb2](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qb2](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qcwb2](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qcib2](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::tket](#)
- real(4), dimension(nlon, nlat, nlevp1) [mod_model::sigdot](#)
- real(4), dimension(nlon, nlat, nlevp1) [mod_model::phih](#)
- real(4), dimension(nlon, nlat, nlevp1) [mod_model::tke](#)
- real(4), dimension(nlon, nlat, nlevp1) [mod_model::lml](#)
- real(4), dimension(nlon, nlat, nlevp1) [mod_model::rich](#)
- real(4), dimension(nlon, nlat, 21) [mod_model::soilvegpar](#)
- real(4), dimension(nlon, nlat, nst) [mod_model::suolo](#)
- real(4), dimension(nlon, nlat, nvt) [mod_model::vegeta](#)
- real(4), dimension(nlon, nlat, 73) [mod_model::tgcist](#)
- real(4), dimension(nlon, nlat, 73) [mod_model::ficecist](#)
- integer, parameter [mod_model::n_std_lev_atm](#) = 5
- integer, parameter [mod_model::n_std_lev_soil](#) = 0
- integer, dimension(nlon, nlat) [mod_model::n_std_lev_sl](#)
- integer, dimension(nlon, nlat) [mod_model::nroot](#)
- real(4), dimension(n_std_lev_atm) [mod_model::std_lev_atm](#) = (/2., 10., 50., 80., 100./)

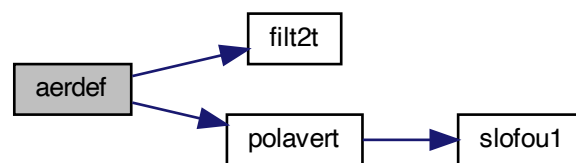
- real(4), dimension(n_std_lev_soil) [mod_model::std_lev_soil](#)
- real(4), dimension(nlon, nlat, n_std_lev_atm) [mod_model::t_std_lev](#)
- real(4), dimension(nlon, nlat, n_std_lev_atm) [mod_model::u_std_lev](#)
- real(4), dimension(nlon, nlat, n_std_lev_atm) [mod_model::v_std_lev](#)
- real(4), dimension(nlon, nlat, n_std_lev_atm) [mod_model::q_std_lev](#)
- real(4), dimension(nlon, nlat, n_std_lev_atm) [mod_model::rh_std_lev](#)
- real(4), dimension(nlon, nlat, n_std_lev_atm) [mod_model::td_std_lev](#)
- real(4), dimension(nlon, nlat, n_std_lev_soil) [mod_model::tg_std_lev](#)
- real(4), dimension(nlon, nlat, n_std_lev_soil) [mod_model::qg_std_lev](#)
- real(4), parameter [mod_model::ccw1](#) =(cpv-cw)/rv
- real(4), parameter [mod_model::ccw2](#) =ylwv/tzer/rv-ccw1
- real(4), parameter [mod_model::cci1](#) =(cpv-ci)/rv
- real(4), parameter [mod_model::cci2](#) =yliv/tzer/rv-cci1
- integer, parameter [mod_model::nlonr](#) = nlon/2-1
- integer, parameter [mod_model::mcica](#) = 0
- real(4), dimension(nlon, nlat, nlev) [mod_model::ozone](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::aerotot](#)
- real(4), dimension(nlon, nlat, nlev, 6) [mod_model::aerosol](#)
- real(4), dimension(nlon, nlat) [mod_model::corvis](#)
- real(4), dimension(nlon, nlat) [mod_model::corirr](#)
- real(4), dimension(nlon, nlat) [mod_model::gelvis](#)
- real(4), dimension(nlon, nlat) [mod_model::gelirr](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::corrtd](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::geldt](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::anu3d](#)
- integer [mod_model::imhf](#) =0
- integer [mod_model::ishf](#) =0
- integer [mod_model::ip_oppo](#)
- real(4) [mod_model::cpole](#)
- integer, dimension(nlat) [mod_model::nsweep](#)
- real(4), dimension(nlon, nfou) [mod_model::snt](#)
- real(4), dimension(nlon, nfou) [mod_model::cst](#)
- real(4), dimension(nlon, nlat) [mod_model::olr](#)
- real(4), dimension(nlon, nlat) [mod_model::olrtot](#)
- real(4), dimension(nlon, nlat) [mod_model::olrtotc](#)
- real(4), dimension(nlat) [mod_model::filtt1](#)
- real(4), dimension(nlat) [mod_model::filtu1](#)
- real(4), dimension(nlat) [mod_model::filtv1](#)
- logical, parameter [mod_model::nlag](#) = .false.
- real(4), dimension(nlon, nlat, nlev) [mod_model::uf](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::vf](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::tf](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qf](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qcwf](#)
- real(4), dimension(nlon, nlat, nlev) [mod_model::qcif](#)

4.1.1 Function/Subroutine Documentation

4.1.1.1 aerdef() [1/2]

```
subroutine aerdef (  
    integer nyrc,  
    integer nmonc,  
    integer ndayc,  
    integer nhouc,  
    integer nminc,  
    integer infx,  
    integer infy )
```

Here is the call graph for this function:



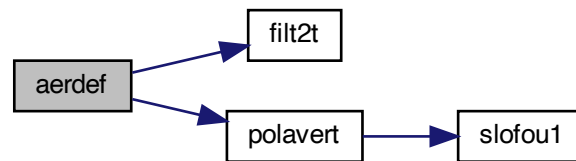
Here is the caller graph for this function:



4.1.1.2 aerdef() [2/2]

```
subroutine aerdef (  
    nyrc,  
    nmonc,  
    ndayc,  
    nhouc,  
    nminc,  
    infx,  
    infy )
```

Here is the call graph for this function:



4.1.1.3 blockdrag()

```
subroutine blockdrag (  
    integer jstep )
```

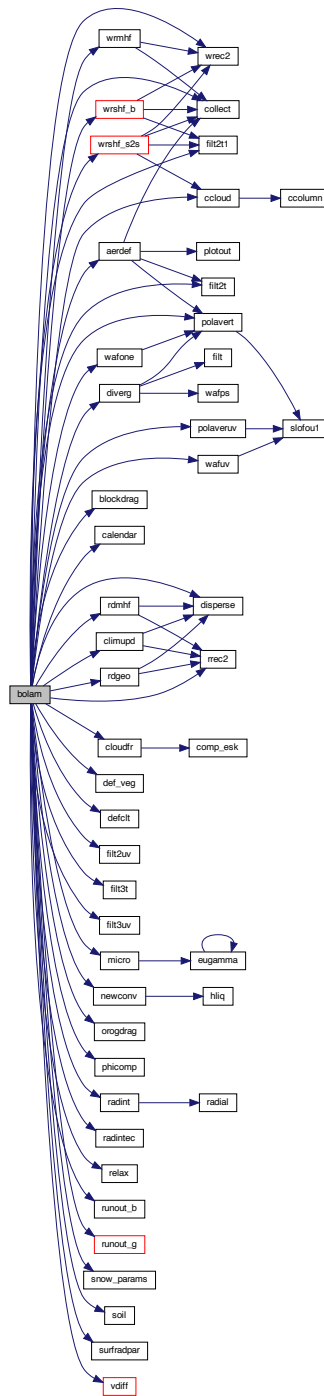
Here is the caller graph for this function:



4.1.1.4 bolam()

```
program bolam
```


Here is the call graph for this function:



4.1.1.5 calendar()

```

subroutine calendar (
    integer nyrin,
  
```

```
integer nmonin,  
integer ndayin,  
integer nhouin,  
integer nminin,  
integer iday,  
integer ihou,  
integer imin,  
integer nyrc,  
integer nmonc,  
integer ndayc,  
integer nhouc,  
integer nminc,  
integer ndayr )
```

Here is the caller graph for this function:



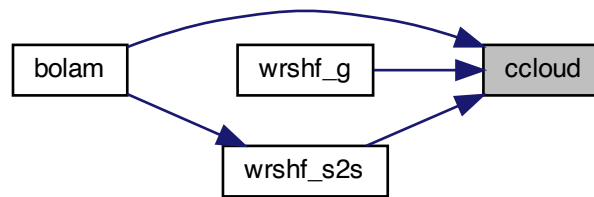
4.1.1.6 ccloud()

```
subroutine ccloud
```

Here is the call graph for this function:



Here is the caller graph for this function:

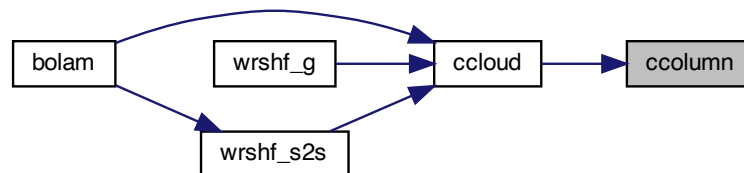


4.1.1.7 ccolumn()

```

subroutine ccolumn (
    real, dimension(n) a,
    integer n,
    real prod )
  
```

Here is the caller graph for this function:

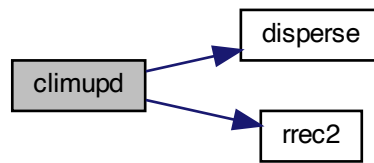


4.1.1.8 climupd()

```

subroutine climupd (
    integer infy,
    integer ndayr,
    integer nyrc,
    integer nmonc,
    integer iflag )
  
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.9 cloudfr()

```
subroutine cloudfr
```

Here is the call graph for this function:



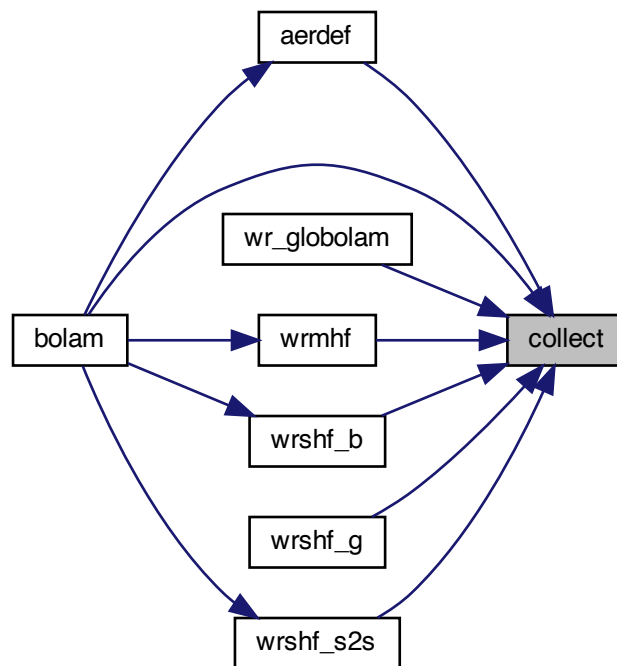
Here is the caller graph for this function:



4.1.1.10 collect()

```
subroutine collect (  
    real(4), dimension(nlon,nlat) lfield,  
    real(4), dimension(gnlon,gnlat) gfield )
```

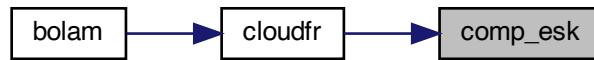
Here is the caller graph for this function:



4.1.1.11 comp_esk()

```
subroutine comp_esk (  
    real esat,  
    real qsat,  
    real t,  
    real p,  
    integer iflag )
```

Here is the caller graph for this function:



4.1.1.12 def_veg()

```
subroutine def_veg (  
    idayr )
```

Here is the caller graph for this function:



4.1.1.13 defcft()

```
subroutine defcft (  
    real, dimension(nlon,nlat,nlev) qcw,  
    real, dimension(nlon,nlat,nlev) qci,  
    real, dimension(nlon,nlat,nlev) t,  
    nlon,  
    nlat,  
    nlev,  
    tzer,  
    nt )
```

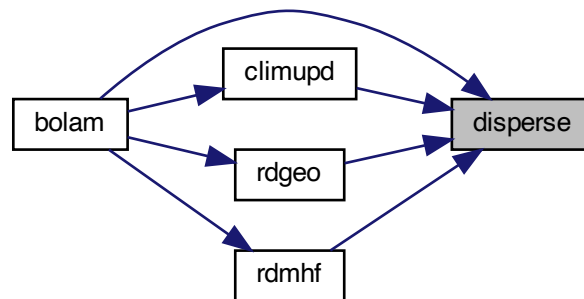
Here is the caller graph for this function:



4.1.1.14 disperse()

```
subroutine disperse (  
    real(4), dimension(gnlon,gnlat) gfield,  
    real(4), dimension(nlon,nlat) lfield )
```

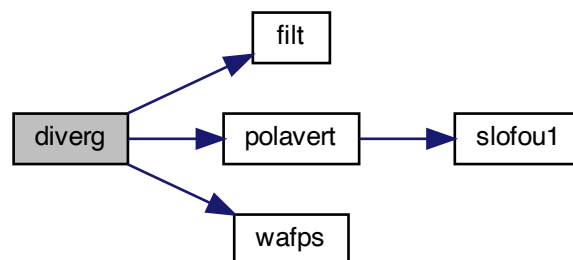
Here is the caller graph for this function:



4.1.1.15 diverg()

```
subroutine diverg (  
    integer kadj )
```

Here is the call graph for this function:



Here is the caller graph for this function:



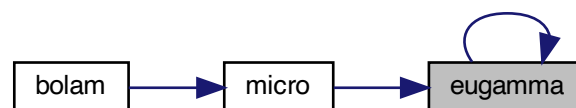
4.1.1.16 eugamma()

```
real function micro::eugamma (  
    real x )
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.17 filt()

```
subroutine filt (  
    real(4), dimension(nlon,nlat,nlev) p,  
    integer nt,  
    real(4) anu2 )
```

Here is the caller graph for this function:



4.1.1.18 filt2t()

```
subroutine filt2t (  
    real(4), dimension(nlon,nlat,nlev) p,  
    anu )
```

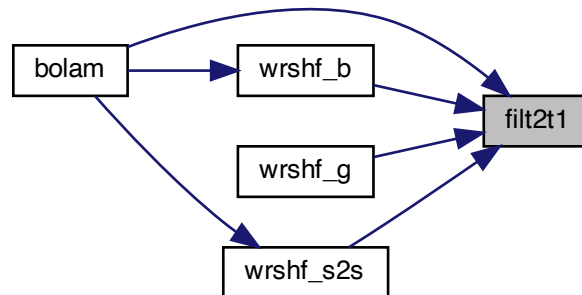
Here is the caller graph for this function:



4.1.1.19 filt2t1()

```
subroutine filt2t1 (  
    real(4), dimension(nlon,nlat) p,  
    anu )
```

Here is the caller graph for this function:



4.1.1.20 `filt2uv()`

```
subroutine filt2uv (  
    anu )
```

Here is the caller graph for this function:



4.1.1.21 `filt3t()`

```
subroutine filt3t (  
    real(4), dimension(nlon,nlat,nlev) p )
```

Here is the caller graph for this function:



4.1.1.22 filt3uv()

```
subroutine filt3uv
```

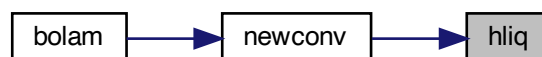
Here is the caller graph for this function:



4.1.1.23 hliq()

```
subroutine hliq (  
    hw,  
    z,  
    p,  
    t,  
    q,  
    ql,  
    qi,  
    qlnew,  
    g,  
    cp,  
    cpv,  
    rh )
```

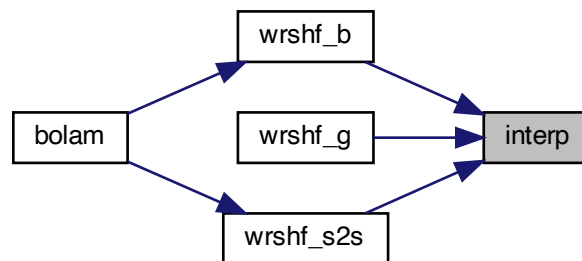
Here is the caller graph for this function:



4.1.1.24 interp()

```
subroutine interp (  
    alfa,  
    ex1,  
    ex2,  
    npi,  
    real, dimension(npi ) xi,  
    real, dimension(npi ) g,  
    real, dimension(nval) x,  
    real, dimension(nval) f,  
    nval )
```

Here is the caller graph for this function:



4.1.1.25 micro()

```
subroutine micro
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.26 newconv()

```
subroutine newconv (  
    ltopc )
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.27 orogdrag()

```
subroutine orogdrag (  
    integer jstep )
```

Here is the caller graph for this function:



4.1.1.28 phicomp()

```
subroutine phicomp
```

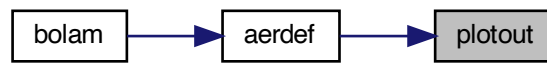
Here is the caller graph for this function:



4.1.1.29 plotout()

```
subroutine plotout (  
    real, dimension(n,m) a,  
    real, dimension(n,m) b,  
    n,  
    m,  
    character*30 title,  
    nhf )
```

Here is the caller graph for this function:



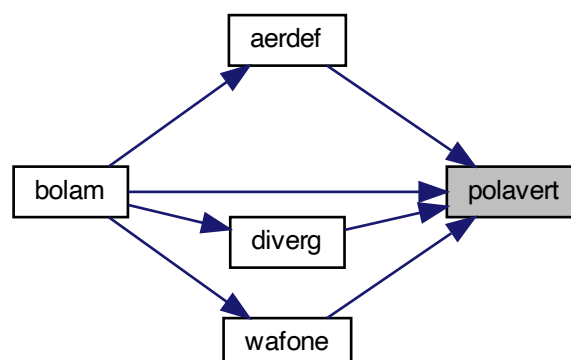
4.1.1.30 polavert()

```
subroutine polavert (  
    real(4), dimension(nlon,nlat,nlev) p )
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.31 polaveruv()

```
subroutine polaveruv
```

Here is the call graph for this function:



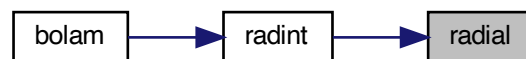
Here is the caller graph for this function:



4.1.1.32 radial()

```
subroutine radial
```

Here is the caller graph for this function:



4.1.1.33 radint()

```
subroutine radint (  
    integer ndayr,  
    integer nhouc,  
    integer nminc,  
    integer infx,  
    real(4) rrf )
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.34 radintec()

```
subroutine radintec (  
    integer jlat,  
    integer jll,  
    integer nyrc,  
    integer nmonc,  
    integer ndayc,  
    integer nhouc,  
    integer nminc,  
    integer infx,  
    integer infy,  
    real rrf )
```

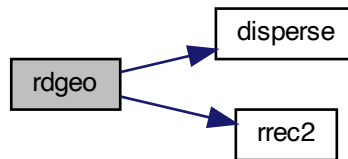
Here is the caller graph for this function:



4.1.1.35 rdgeo()

```
subroutine rdgeo
```

Here is the call graph for this function:



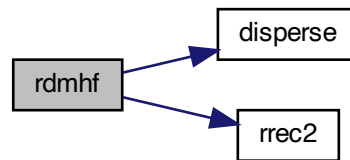
Here is the caller graph for this function:



4.1.1.36 rdmhf()

```
subroutine rdmhf (  
    integer nun )
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.37 relax()

```
subroutine relax (  
    is,  
    gammin,  
    gammax,  
    dimension(is) alpha )
```

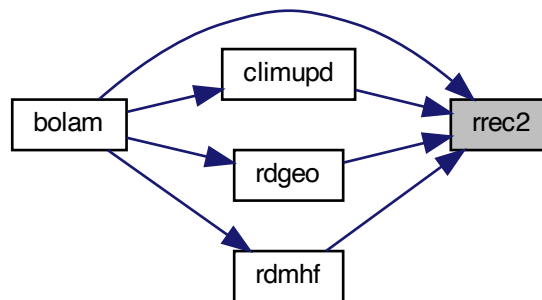
Here is the caller graph for this function:



4.1.1.38 rrec2()

```
subroutine rrec2 (  
    kunit,  
    nlon,  
    nlat,  
    real(4), dimension(nlon,nlat) vect )
```

Here is the caller graph for this function:



4.1.1.39 runout_b()

```
subroutine runout_b (  
    integer jstep )
```

Here is the caller graph for this function:



4.1.1.40 runout_g()

```
subroutine runout_g (  
    integer jstep,  
    integer nyrc,  
    integer nmonc,  
    integer ndayc,  
    integer nhouc,  
    integer nminc )
```

Here is the call graph for this function:



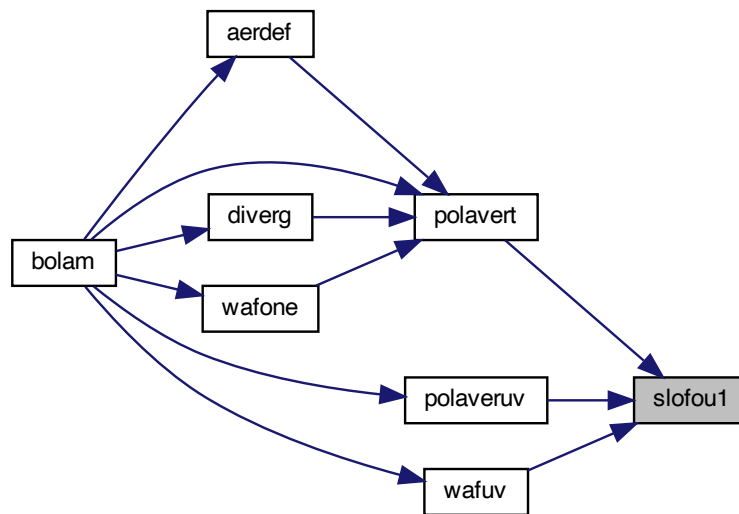
Here is the caller graph for this function:



4.1.1.41 slofou1()

```
subroutine slofou1 (  
    real(4), dimension(nlon,nlev) p,  
    real(4) nt,  
    logical nlwind )
```

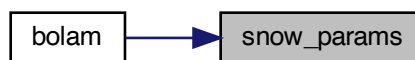
Here is the caller graph for this function:



4.1.1.42 snow_params()

```
subroutine snow_params
```

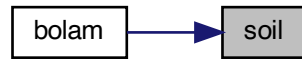
Here is the caller graph for this function:



4.1.1.43 soil()

```
subroutine soil (  
    integer ndayr )
```

Here is the caller graph for this function:



4.1.1.44 surfradpar()

```
subroutine surfradpar
```

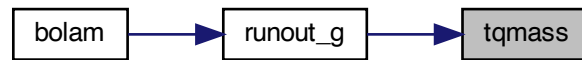
Here is the caller graph for this function:



4.1.1.45 tqmass()

```
subroutine tqmass (  
    real(4), dimension(nlon,nlat) ps,  
    real(4), dimension(nlon,nlat,nlev) q,  
    nlon,  
    nlat,  
    nlev,  
    real(4), dimension(nlat) hxt,  
    dlon,  
    dlat,  
    myid,  
    nprocsx,  
    nprocsy,  
    real(4), dimension(nlev) dsig,  
    real(4), dimension(nlev) dbika,  
    pzer,  
    g,  
    tom )
```

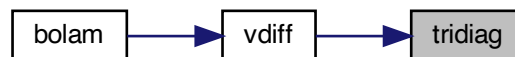
Here is the caller graph for this function:



4.1.1.46 tridiag()

```
subroutine tridiag (  
    real(4), dimension(nlon,nlev) za,  
    real(4), dimension(nlon,nlev) zc,  
    real(4), dimension(nlon) psisurf,  
    real(4), dimension(nlon,nlev) psi,  
    integer nlon,  
    integer nlev,  
    integer ntop )
```

Here is the caller graph for this function:



4.1.1.47 vdiff()

```
subroutine vdiff (  
    pstep )
```

Here is the call graph for this function:



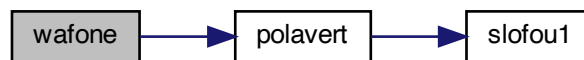
Here is the caller graph for this function:



4.1.1.48 wafone()

```
subroutine wafone (  
    real(4), dimension(nlon,nlat,nlev) var,  
    real(4) dt )
```

Here is the call graph for this function:



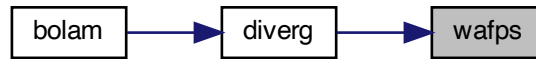
Here is the caller graph for this function:



4.1.1.49 wafps()

```
subroutine wafps
```

Here is the caller graph for this function:



4.1.1.50 wafuv()

```
subroutine wafuv (  
    real(4) dt )
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.51 wr_globolam()

```
subroutine wr_globolam
```

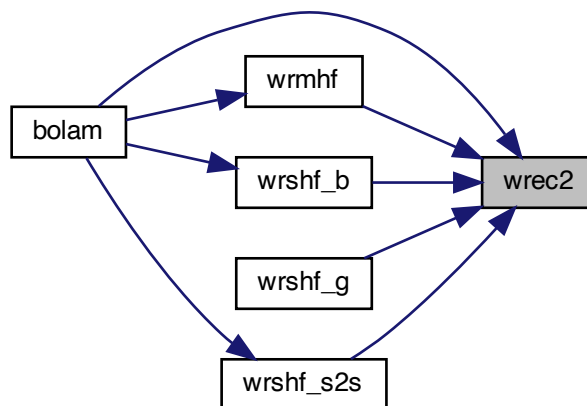
Here is the call graph for this function:



4.1.1.52 wrec2()

```
subroutine wrec2 (  
    kunit,  
    nlon,  
    nlat,  
    real(4), dimension(nlon,nlat) vect )
```

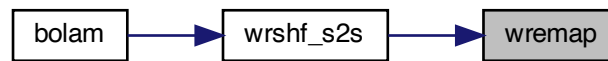
Here is the caller graph for this function:



4.1.1.53 wremap()

```
subroutine wremap (  
    integer kunit )
```

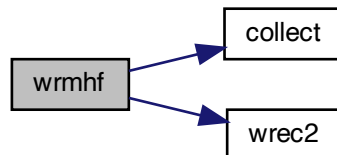
Here is the caller graph for this function:



4.1.1.54 wrmhf()

```
subroutine wrmhf
```

Here is the call graph for this function:



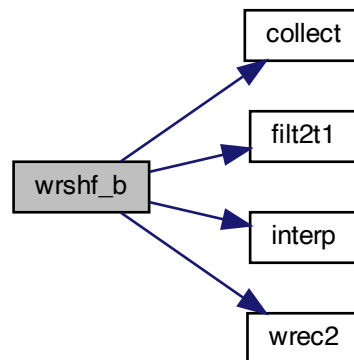
Here is the caller graph for this function:



4.1.1.55 wrshf_b()

```
subroutine wrshf_b (  
    integer jstep )
```

Here is the call graph for this function:



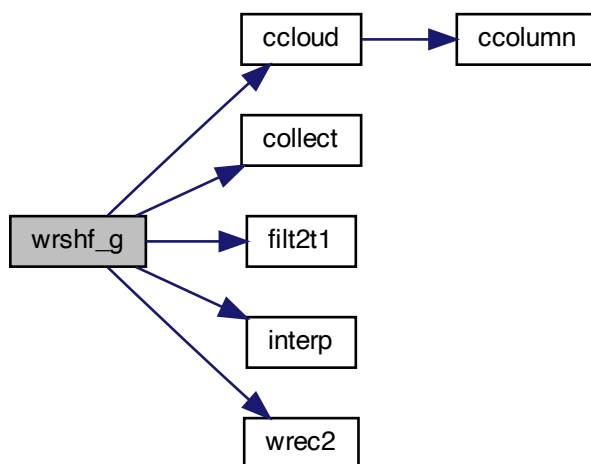
Here is the caller graph for this function:



4.1.1.56 wrshf_g()

```
subroutine wrshf_g (  
    integer jstep )
```

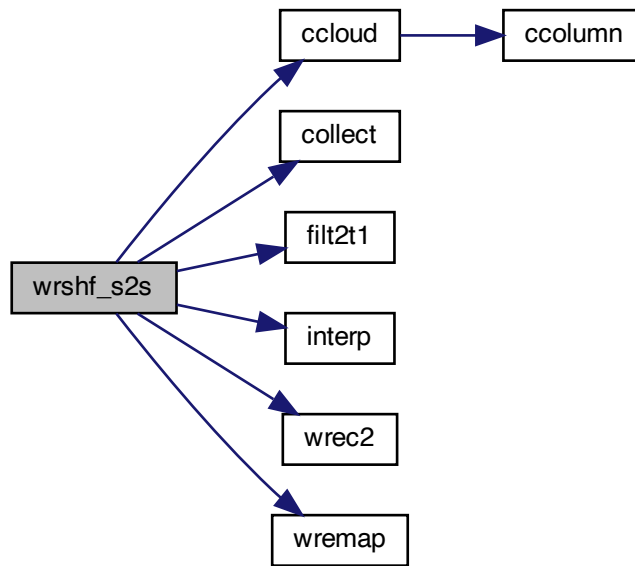
Here is the call graph for this function:



4.1.1.57 wrshf_s2s()

```
subroutine wrshf_s2s (  
    integer nhouc )
```

Here is the call graph for this function:



Here is the caller graph for this function:



4.2 dimensions.inc File Reference

