

Reference Manual

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Chapter 1

Namespace Index

1.1 Namespace List

Here is a list of all documented namespaces with brief descriptions:

[growth_balive](#) (Various routines handling plant C and N use given size and allometry) 5

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Chapter 3

Namespace Documentation

3.1 `growth_balive` Namespace Reference

Various routines handling plant C and N use given size and allometry.

Functions

- subroutine `dbalive_dt` (cgrid, tfact)
Updates living biomass.
- subroutine `dbalive_dt_eq_0` (cgrid, tfact)
- subroutine `get_maintenance` (cpatch, ico, tfact, tempk)
- subroutine `apply_maintenance` (cpatch, ico, cb_decrement)
- subroutine `get_daily_C_gain` (cpatch, ico, daily_C_gain)
- subroutine `update_cb` (cpatch, ico, cb_decrement)
- subroutine `update_today_npp_vars` (cpatch, ico, tr_bleaf, tr_broot, tr_bsapwooda, tr_bsapwoodb, carbon_balance)
- subroutine `update_nitrogen` (flushing, ipft, carbon_balance, nplant, tr_bleaf, tr_broot, tr_bstorage, nitrogen_uptake, fsn_in)
- subroutine `get_c_xfers` (csite, ipa, ico, carbon_balance, green_leaf_factor, tr_bleaf, tr_broot, tr_bsapwooda, tr_bsapwoodb, tr_bstorage, carbon_debt, flushing, balive_aim)
Calculates plant-internal C transfers for growth and maintainance.
- subroutine `apply_c_xfers` (cpatch, ico, carbon_balance, tr_bleaf, tr_broot, tr_bsapwooda, tr_bsapwoodb, tr_bstorage)
- subroutine `plant_maintenance` (cpatch, ico, br, bl, tfact, daily_C_gain, tempk)
- subroutine `plant_carbon_balances` (cpatch, ipa, ico, daily_C_gain, carbon_balance, carbon_balance_pot, carbon_balance_lightmax, carbon_balance_moistmax, carbon_balance_mlmax)
- subroutine `alloc_plant_c_balance_grass` (csite, ipa, ico, salloci, carbon_balance, nitrogen_uptake, green_leaf_factor)
- subroutine `alloc_plant_c_balance_eq_0` (csite, ipa, ico, carbon_balance, nitrogen_uptake, green_leaf_factor)
- subroutine `potential_N_uptake` (cpatch, ico, carbon_balance_pot, N_uptake_pot, green_leaf_factor)
- subroutine `litter` (csite, ipa)

3.1.1 Detailed Description

Various routines handling plant C and N use given size and allometry. Essentially, this file contains `dbalive_dt[_eq0]` and their libraries of fns.

Author:

Translated from ED1 by Ryan Knox and Marcos Longo
31 Aug 2015 - Big refactoring in commit b8fb585, Daniel Scott

3.1.2 Function Documentation

3.1.2.1 subroutine `growth_balive::dbalive_dt` (`type(edtype),target cgrid, real,intent(in) tfact`)

Updates living biomass. Calls a variety of subroutines controlling plant carbon balances, C and N xfers among plant pools, updating of storage and growth respiration, leaf maintenance, and update mortality rates.

Author:

Translated from ED1 by Ryan Knox and Marcos Longo
31 Aug 2015 - Big refactoring in commit b8fb585, Daniel Scott

Warning:

The order of the operations here affect the C/N budgets, so don't change it unless you really know what you are doing.

Parameters:

cgrid the ed grid
tfact "time factor" i.e. call frequency

3.1.2.2 subroutine `growth_balive::get_c_xfers` (`type(sitetype),target csite, integer,intent(in) ipa, integer,intent(in) ico, real,intent(in) carbon_balance, real,intent(in) green_leaf_factor, real,intent(out) tr_bleaf, real,intent(out) tr_broot, real,intent(out) tr_bsapwooda, real,intent(out) tr_bsapwoodb, real,intent(out) tr_bstorage, real,intent(out) carbon_debt, logical,intent(out) flushing, real,intent(out) balive_aim`)

Calculates plant-internal C transfers for growth and maintainance. Uses phenology, allometry, carbon balance, and current C pool sizes to determine (signed) transfers to leaf, root, sapwooda, sapwoodb, and storage.

Warning:

The order of the operations here affect the C/N budgets, so don't change it unless you really know what you are doing.

Parameters:

csite Current Site
ipa Loop-Current Patch
ico Loop-Current Cohort
carbon_balance Plant net carbon uptake

green_leaf_factor Cohort leaf-age param.
tr_bleaf Transfer to leaf C pool
tr_broot Transfer to root C pool
tr_bsapwooda Transfer to sapwooda C pool
tr_bsapwoodb Transfer to sapwoodb C pool
tr_bstorage Transfer to storage C pool
carbon_debt Net cohort carbon uptake
flushing Flag for leaf flush
balive_aim Desired cohort balive value

Chapter 4

Class Documentation

4.1 `rk4_coms::bdf2patchtype` Struct Reference

Public Attributes

- `real(kind=8)` **can_temp**
- `real(kind=8), dimension(:), pointer` **leaf_temp**
- `real(kind=8), dimension(:), pointer` **wood_temp**

The documentation for this struct was generated from the following file:

- `memory/rk4_coms.f90`

4.2 canopy_layer_coms::canstrtype Struct Reference

Public Attributes

- real(kind=4), dimension(:), allocatable **lad**
- real(kind=4), dimension(:), allocatable **cdrag**
- real(kind=4), dimension(:), allocatable **pshelter**
- real(kind=4), dimension(:), allocatable **cumldrag**
- real(kind=4), dimension(:), allocatable **windlyr**
- real(kind=4), dimension(:), allocatable **windext_full**
- real(kind=4), dimension(:), allocatable **windext_half**
- real(kind=8), dimension(:), allocatable **lad8**
- real(kind=8), dimension(:), allocatable **cdrag8**
- real(kind=8), dimension(:), allocatable **pshelter8**
- real(kind=8), dimension(:), allocatable **cumldrag8**
- real(kind=8), dimension(:), allocatable **windlyr8**
- real(kind=8), dimension(:), allocatable **windext_full8**
- real(kind=8), dimension(:), allocatable **windext_half8**

The documentation for this struct was generated from the following file:

- memory/canopy_layer_coms.f90

4.3 c34constants::carb_demand_vars Struct Reference

Public Attributes

- real(kind=8) **alpha**
- real(kind=8) **vm**
- real(kind=8) **compp**
- real(kind=8) **kco2**
- real(kind=8) **ko2**
- real(kind=8) **leaf_resp**
- real(kind=8) **sigma**
- real(kind=8) **rho**
- real(kind=8) **xi**
- real(kind=8) **tau**
- real(kind=8) **nu**

The documentation for this struct was generated from the following file:

- memory/c34constants.f90

4.4 ed_state_vars::edtype Struct Reference

Public Attributes

- integer **npolygons_global**
- integer **nsites_global**
- integer **npatches_global**
- integer **ncohorts_global**
- integer **mach_cohort_offset_index**
- integer **mach_patch_offset_index**
- integer **mach_site_offset_index**
- integer **mach_polygon_offset_index**
- integer **npolygons**
- integer **pyglob_id**
- type([polygontype](#)), dimension(:), pointer **polygon**
- integer, dimension(:), pointer **pysi_id**
- integer, dimension(:), pointer **pysi_n**
- real(kind=8), dimension(:), pointer **walltime_py**
- real, dimension(:), pointer **lon**
- real, dimension(:), pointer **lat**
- integer, dimension(:), pointer **xatm**
- integer, dimension(:), pointer **yatm**
- real, dimension(:,:), pointer **site_adjacency**
- real, dimension(:), pointer **wbar**
- real, dimension(:), pointer **Te**
- real, dimension(:), pointer **zbar**
- real, dimension(:), pointer **tau**
- real, dimension(:), pointer **sheat**
- real, dimension(:), pointer **baseflow**
- real, dimension(:), pointer **runoff**
- real, dimension(:), pointer **qrunoff**
- real, dimension(:), pointer **swliq**
- integer, dimension(:), pointer **ilon**
- integer, dimension(:), pointer **ilat**
- real, dimension(:,:), pointer **workload**
- real, dimension(:), pointer **total_agb**
- real, dimension(:), pointer **total_basal_area**
- real, dimension(:), pointer **total_agb_growth**
- real, dimension(:), pointer **total_agb_mort**
- real, dimension(:), pointer **total_agb_recruit**
- real, dimension(:), pointer **total_basal_area_growth**
- real, dimension(:), pointer **total_basal_area_mort**
- real, dimension(:), pointer **total_basal_area_recruit**
- integer, dimension(:), pointer **nsites**
- integer, dimension(:,:), pointer **sitenum**
- integer, dimension(:), pointer **load_adjacency**
- type([met_driv_data](#)), dimension(:), pointer **metinput**
- type([met_driv_state](#)), dimension(:), pointer **met**
- type([met_driv_state](#)), dimension(:), pointer **lapse**
- real, dimension(:), pointer **cosz**

- real, dimension(:), pointer **cbudget_initialstorage**
- real, dimension(:), pointer **cbudget_nep**
- real, dimension(:), pointer **nbudget_initialstorage**
- real, dimension(:), pointer **max_leaf_temp**
- real, dimension(:), pointer **min_leaf_temp**
- real, dimension(:), pointer **max_wood_temp**
- real, dimension(:), pointer **min_wood_temp**
- real, dimension(:), pointer **max_soil_temp**
- real, dimension(:), pointer **min_soil_temp**
- real, dimension(:,:), pointer **nplant**
- real, dimension(:,:), pointer **agb**
- real, dimension(:,:), pointer **lai**
- real, dimension(:,:), pointer **wai**
- real, dimension(:,:), pointer **basal_area**
- real, dimension(:,:), pointer **bdead**
- real, dimension(:,:), pointer **balive**
- real, dimension(:,:), pointer **bleaf**
- real, dimension(:,:), pointer **broot**
- real, dimension(:,:), pointer **bsapwooda**
- real, dimension(:,:), pointer **bsapwoodb**
- real, dimension(:,:), pointer **bseeds**
- real, dimension(:,:), pointer **bstorage**
- real, dimension(:,:), pointer **bdead_n**
- real, dimension(:,:), pointer **balive_n**
- real, dimension(:,:), pointer **bleaf_n**
- real, dimension(:,:), pointer **broot_n**
- real, dimension(:,:), pointer **bsapwooda_n**
- real, dimension(:,:), pointer **bsapwoodb_n**
- real, dimension(:,:), pointer **bseeds_n**
- real, dimension(:,:), pointer **bstorage_n**
- real, dimension(:,:), pointer **leaf_maintenance**
- real, dimension(:,:), pointer **root_maintenance**
- real, dimension(:,:), pointer **leaf_drop**
- real, dimension(:), pointer **fast_soil_c**
- real, dimension(:), pointer **slow_soil_c**
- real, dimension(:), pointer **struct_soil_c**
- real, dimension(:), pointer **struct_soil_l**
- real, dimension(:), pointer **cwd_c**
- real, dimension(:), pointer **fast_soil_n**
- real, dimension(:), pointer **mineral_soil_n**
- real, dimension(:), pointer **cwd_n**
- real, dimension(:), pointer **Cleaf_grow**
- real, dimension(:), pointer **Croot_grow**
- real, dimension(:), pointer **Cdead_grow**
- real, dimension(:), pointer **Cstore_grow**
- real, dimension(:), pointer **Cleaf_litter_flux**
- real, dimension(:), pointer **Croot_litter_flux**
- real, dimension(:), pointer **Ccwd_flux**
- real, dimension(:), pointer **Nleaf_grow**
- real, dimension(:), pointer **Ndead_grow**

- real, dimension(:), pointer **Nroot_grow**
- real, dimension(:), pointer **Nstore_grow**
- real, dimension(:), pointer **Nleaf_litter_flux**
- real, dimension(:), pointer **Nroot_litter_flux**
- real, dimension(:), pointer **Ncwd_flux**
- real, dimension(:), pointer **Nbiomass_uptake**
- real, dimension(:), pointer **Ngross_min**
- real, dimension(:), pointer **Nnet_min**
- real, dimension(:, :, :), pointer **avg_lai_ebalvars**
- real, dimension(:), pointer **fmean_gpp**
- real, dimension(:), pointer **fmean_npp**
- real, dimension(:), pointer **fmean_leaf_resp**
- real, dimension(:), pointer **fmean_root_resp**
- real, dimension(:), pointer **fmean_leaf_growth_resp**
- real, dimension(:), pointer **fmean_root_growth_resp**
- real, dimension(:), pointer **fmean_sapa_growth_resp**
- real, dimension(:), pointer **fmean_sapb_growth_resp**
- real, dimension(:), pointer **fmean_leaf_storage_resp**
- real, dimension(:), pointer **fmean_root_storage_resp**
- real, dimension(:), pointer **fmean_sapa_storage_resp**
- real, dimension(:), pointer **fmean_sapb_storage_resp**
- real, dimension(:), pointer **fmean_plresp**
- real, dimension(:), pointer **fmean_leaf_energy**
- real, dimension(:), pointer **fmean_leaf_water**
- real, dimension(:), pointer **fmean_leaf_hcap**
- real, dimension(:), pointer **fmean_leaf_vpdef**
- real, dimension(:), pointer **fmean_leaf_temp**
- real, dimension(:), pointer **fmean_leaf_fliq**
- real, dimension(:), pointer **fmean_leaf_gsw**
- real, dimension(:), pointer **fmean_leaf_gbw**
- real, dimension(:), pointer **fmean_wood_energy**
- real, dimension(:), pointer **fmean_wood_water**
- real, dimension(:), pointer **fmean_wood_hcap**
- real, dimension(:), pointer **fmean_wood_temp**
- real, dimension(:), pointer **fmean_wood_fliq**
- real, dimension(:), pointer **fmean_wood_gbw**
- real, dimension(:), pointer **fmean_fs_open**
- real, dimension(:), pointer **fmean_fsw**
- real, dimension(:), pointer **fmean_fsn**
- real, dimension(:), pointer **fmean_a_open**
- real, dimension(:), pointer **fmean_a_closed**
- real, dimension(:), pointer **fmean_a_net**
- real, dimension(:), pointer **fmean_a_light**
- real, dimension(:), pointer **fmean_a_rubp**
- real, dimension(:), pointer **fmean_a_co2**
- real, dimension(:), pointer **fmean_psi_open**
- real, dimension(:), pointer **fmean_psi_closed**
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- real, dimension(:), pointer **fmean_rshort_l**
- real, dimension(:), pointer **fmean_rlong_l**
- real, dimension(:), pointer **fmean_sensible_lc**
- real, dimension(:), pointer **fmean_vapor_lc**
- real, dimension(:), pointer **fmean_transp**
- real, dimension(:), pointer **fmean_intercepted_al**
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- real, dimension(:), pointer **fmean_rshort_w**
- real, dimension(:), pointer **fmean_rlong_w**
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- real, dimension(:), pointer **fmean_can_vpdef**
- real, dimension(:), pointer **fmean_can_temp**
- real, dimension(:), pointer **fmean_can_shv**
- real, dimension(:), pointer **fmean_can_co2**
- real, dimension(:), pointer **fmean_can_rhos**
- real, dimension(:), pointer **fmean_can_prss**
- real, dimension(:), pointer **fmean_gnd_temp**
- real, dimension(:), pointer **fmean_gnd_shv**
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- real, dimension(:), pointer **fmean_sfcw_energy**
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- real, dimension(:), pointer **fmean_sfcw_temp**
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- real, dimension(:,:), pointer **fmean_soil_energy**
- real, dimension(:,:), pointer **fmean_soil_mstpot**
- real, dimension(:,:), pointer **fmean_soil_water**
- real, dimension(:,:), pointer **fmean_soil_temp**
- real, dimension(:,:), pointer **fmean_soil_fliq**
- real, dimension(:), pointer **fmean_rshort_gnd**
- real, dimension(:), pointer **fmean_par_gnd**
- real, dimension(:), pointer **fmean_rlong_gnd**
- real, dimension(:), pointer **fmean_rlongup**
- real, dimension(:), pointer **fmean_parup**
- real, dimension(:), pointer **fmean_nirup**
- real, dimension(:), pointer **fmean_rshortup**
- real, dimension(:), pointer **fmean_rnet**
- real, dimension(:), pointer **fmean_albedo**
- real, dimension(:), pointer **fmean_albedo_par**

- real, dimension(:), pointer **fmean_albedo_nir**
- real, dimension(:), pointer **fmean_rlong_albedo**
- real, dimension(:), pointer **fmean_ustar**
- real, dimension(:), pointer **fmean_tstar**
- real, dimension(:), pointer **fmean_qstar**
- real, dimension(:), pointer **fmean_cstar**
- real, dimension(:), pointer **fmean_carbon_ac**
- real, dimension(:), pointer **fmean_carbon_st**
- real, dimension(:), pointer **fmean_vapor_gc**
- real, dimension(:), pointer **fmean_vapor_ac**
- real, dimension(:, :), pointer **fmean_smoist_gg**
- real, dimension(:), pointer **fmean_throughfall**
- real, dimension(:, :), pointer **fmean_transloss**
- real, dimension(:), pointer **fmean_runoff**
- real, dimension(:), pointer **fmean_drainage**
- real, dimension(:), pointer **fmean_sensible_gc**
- real, dimension(:), pointer **fmean_sensible_ac**
- real, dimension(:, :), pointer **fmean_sensible_gg**
- real, dimension(:), pointer **fmean_qthroughfall**
- real, dimension(:), pointer **fmean_qrunoff**
- real, dimension(:), pointer **fmean_qdrainage**
- real, dimension(:), pointer **fmean_atm_theiv**
- real, dimension(:), pointer **fmean_atm_theta**
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- real, dimension(:), pointer **fmean_atm_shv**
- real, dimension(:), pointer **fmean_atm_rshort**
- real, dimension(:), pointer **fmean_atm_rshort_diff**
- real, dimension(:), pointer **fmean_atm_par**
- real, dimension(:), pointer **fmean_atm_par_diff**
- real, dimension(:), pointer **fmean_atm_rlong**
- real, dimension(:), pointer **fmean_atm_vels**
- real, dimension(:), pointer **fmean_atm_rhos**
- real, dimension(:), pointer **fmean_atm_prss**
- real, dimension(:), pointer **fmean_atm_co2**
- real, dimension(:), pointer **fmean_pcp**
- real, dimension(:), pointer **fmean_qpcpg**
- real, dimension(:), pointer **fmean_dpcpg**
- real, dimension(:), pointer **fmean_soil_wetness**
- real, dimension(:), pointer **fmean_skin_temp**
- real, dimension(:), pointer **fmean_lai**
- real, dimension(:), pointer **fmean_bdead**
- real, dimension(:), pointer **dmean_nppleaf**
- real, dimension(:), pointer **dmean_nppfroot**
- real, dimension(:), pointer **dmean_nppsapwood**
- real, dimension(:), pointer **dmean_nppcroot**
- real, dimension(:), pointer **dmean_nppseeds**
- real, dimension(:), pointer **dmean_nppwood**
- real, dimension(:), pointer **dmean_nppdaily**
- real, dimension(:), pointer **dmean_A_decomp**

- real, dimension(:), pointer **dmean_Af_decomp**
- real, dimension(:), pointer **dmean_co2_residual**
- real, dimension(:), pointer **dmean_energy_residual**
- real, dimension(:), pointer **dmean_water_residual**
- real, dimension(:,:), pointer **mmean_lai**
- real, dimension(:,:), pointer **mmean_bleaf**
- real, dimension(:,:), pointer **mmean_broot**
- real, dimension(:,:), pointer **mmean_bstorage**
- real, dimension(:,:), pointer **mmean_bleaf_n**
- real, dimension(:,:), pointer **mmean_broot_n**
- real, dimension(:,:), pointer **mmean_bstorage_n**
- real, dimension(:,:), pointer **mmean_leaf_maintenance**
- real, dimension(:,:), pointer **mmean_root_maintenance**
- real, dimension(:,:), pointer **mmean_leaf_drop**
- real, dimension(:), pointer **mmean_fast_soil_c**
- real, dimension(:), pointer **mmean_slow_soil_c**
- real, dimension(:), pointer **mmean_struct_soil_c**
- real, dimension(:), pointer **mmean_struct_soil_l**
- real, dimension(:), pointer **mmean_cwd_c**
- real, dimension(:), pointer **mmean_fast_soil_n**
- real, dimension(:), pointer **mmean_mineral_soil_n**
- real, dimension(:), pointer **mmean_cwd_n**
- real, dimension(:), pointer **dmean_gpp**
- real, dimension(:), pointer **dmean_npp**
- real, dimension(:), pointer **dmean_leaf_resp**
- real, dimension(:), pointer **dmean_root_resp**
- real, dimension(:), pointer **dmean_leaf_growth_resp**
- real, dimension(:), pointer **dmean_root_growth_resp**
- real, dimension(:), pointer **dmean_sapa_growth_resp**
- real, dimension(:), pointer **dmean_sapb_growth_resp**
- real, dimension(:), pointer **dmean_leaf_storage_resp**
- real, dimension(:), pointer **dmean_root_storage_resp**
- real, dimension(:), pointer **dmean_sapa_storage_resp**
- real, dimension(:), pointer **dmean_sapb_storage_resp**
- real, dimension(:), pointer **dmean_plresp**
- real, dimension(:), pointer **dmean_leaf_energy**
- real, dimension(:), pointer **dmean_leaf_water**
- real, dimension(:), pointer **dmean_leaf_hcap**
- real, dimension(:), pointer **dmean_leaf_vpdef**
- real, dimension(:), pointer **dmean_leaf_temp**
- real, dimension(:), pointer **dmean_leaf_fliq**
- real, dimension(:), pointer **dmean_leaf_gsw**
- real, dimension(:), pointer **dmean_leaf_gbw**
- real, dimension(:), pointer **dmean_wood_energy**
- real, dimension(:), pointer **dmean_wood_water**
- real, dimension(:), pointer **dmean_wood_hcap**
- real, dimension(:), pointer **dmean_wood_temp**
- real, dimension(:), pointer **dmean_wood_fliq**
- real, dimension(:), pointer **dmean_wood_gbw**
- real, dimension(:), pointer **dmean_fs_open**

- real, dimension(:), pointer **dmean_fsw**
- real, dimension(:), pointer **dmean_fsn**
- real, dimension(:), pointer **dmean_a_open**
- real, dimension(:), pointer **dmean_a_closed**
- real, dimension(:), pointer **dmean_a_net**
- real, dimension(:), pointer **dmean_a_light**
- real, dimension(:), pointer **dmean_a_rubp**
- real, dimension(:), pointer **dmean_a_co2**
- real, dimension(:), pointer **dmean_psi_open**
- real, dimension(:), pointer **dmean_psi_closed**
- real, dimension(:), pointer **dmean_water_supply**
- real, dimension(:), pointer **dmean_par_l**
- real, dimension(:), pointer **dmean_par_l_beam**
- real, dimension(:), pointer **dmean_par_l_diff**
- real, dimension(:), pointer **dmean_rshort_l**
- real, dimension(:), pointer **dmean_rlong_l**
- real, dimension(:), pointer **dmean_sensible_lc**
- real, dimension(:), pointer **dmean_vapor_lc**
- real, dimension(:), pointer **dmean_transp**
- real, dimension(:), pointer **dmean_intercepted_al**
- real, dimension(:), pointer **dmean_wshed_lg**
- real, dimension(:), pointer **dmean_rshort_w**
- real, dimension(:), pointer **dmean_rlong_w**
- real, dimension(:), pointer **dmean_sensible_wc**
- real, dimension(:), pointer **dmean_vapor_wc**
- real, dimension(:), pointer **dmean_intercepted_aw**
- real, dimension(:), pointer **dmean_wshed_wg**
- real, dimension(:), pointer **dmean_rh**
- real, dimension(:), pointer **dmean_cwd_rh**
- real, dimension(:), pointer **dmean_nep**
- real, dimension(:), pointer **dmean_rk4step**
- real, dimension(:), pointer **dmean_available_water**
- real, dimension(:), pointer **dmean_can_theiv**
- real, dimension(:), pointer **dmean_can_theta**
- real, dimension(:), pointer **dmean_can_vpdef**
- real, dimension(:), pointer **dmean_can_temp**
- real, dimension(:), pointer **dmean_can_shv**
- real, dimension(:), pointer **dmean_can_co2**
- real, dimension(:), pointer **dmean_can_rhos**
- real, dimension(:), pointer **dmean_can_prss**
- real, dimension(:), pointer **dmean_gnd_temp**
- real, dimension(:), pointer **dmean_gnd_shv**
- real, dimension(:), pointer **dmean_can_ggnd**
- real, dimension(:), pointer **dmean_sfcw_depth**
- real, dimension(:), pointer **dmean_sfcw_energy**
- real, dimension(:), pointer **dmean_sfcw_mass**
- real, dimension(:), pointer **dmean_sfcw_temp**
- real, dimension(:), pointer **dmean_sfcw_fliq**
- real, dimension(:,:), pointer **dmean_soil_energy**
- real, dimension(:,:), pointer **dmean_soil_mstpot**

- real, dimension(:,:), pointer **dmean_soil_water**
- real, dimension(:,:), pointer **dmean_soil_temp**
- real, dimension(:,:), pointer **dmean_soil_fliq**
- real, dimension(:), pointer **dmean_rshort_gnd**
- real, dimension(:), pointer **dmean_par_gnd**
- real, dimension(:), pointer **dmean_rlong_gnd**
- real, dimension(:), pointer **dmean_rlongup**
- real, dimension(:), pointer **dmean_parup**
- real, dimension(:), pointer **dmean_nirup**
- real, dimension(:), pointer **dmean_rshortup**
- real, dimension(:), pointer **dmean_rnet**
- real, dimension(:), pointer **dmean_albedo**
- real, dimension(:), pointer **dmean_albedo_par**
- real, dimension(:), pointer **dmean_albedo_nir**
- real, dimension(:), pointer **dmean_rlong_albedo**
- real, dimension(:), pointer **dmean_ustar**
- real, dimension(:), pointer **dmean_tstar**
- real, dimension(:), pointer **dmean_qstar**
- real, dimension(:), pointer **dmean_cstar**
- real, dimension(:), pointer **dmean_carbon_ac**
- real, dimension(:), pointer **dmean_carbon_st**
- real, dimension(:), pointer **dmean_vapor_gc**
- real, dimension(:), pointer **dmean_vapor_ac**
- real, dimension(:,:), pointer **dmean_smoist_gg**
- real, dimension(:), pointer **dmean_throughfall**
- real, dimension(:,:), pointer **dmean_transloss**
- real, dimension(:), pointer **dmean_runoff**
- real, dimension(:), pointer **dmean_drainage**
- real, dimension(:), pointer **dmean_sensible_gc**
- real, dimension(:), pointer **dmean_sensible_ac**
- real, dimension(:,:), pointer **dmean_sensible_gg**
- real, dimension(:), pointer **dmean_qthroughfall**
- real, dimension(:), pointer **dmean_qrunoff**
- real, dimension(:), pointer **dmean_qdrainage**
- real, dimension(:), pointer **dmean_atm_theiv**
- real, dimension(:), pointer **dmean_atm_theta**
- real, dimension(:), pointer **dmean_atm_temp**
- real, dimension(:), pointer **dmean_atm_vpdef**
- real, dimension(:), pointer **dmean_atm_shv**
- real, dimension(:), pointer **dmean_atm_rshort**
- real, dimension(:), pointer **dmean_atm_rshort_diff**
- real, dimension(:), pointer **dmean_atm_par**
- real, dimension(:), pointer **dmean_atm_par_diff**
- real, dimension(:), pointer **dmean_atm_rlong**
- real, dimension(:), pointer **dmean_atm_vels**
- real, dimension(:), pointer **dmean_atm_rhos**
- real, dimension(:), pointer **dmean_atm_prss**
- real, dimension(:), pointer **dmean_atm_co2**
- real, dimension(:), pointer **dmean_pcp**
- real, dimension(:), pointer **dmean_qpcp**

- real, dimension(:), pointer **dmean_dpcpg**
- real, dimension(:), pointer **mmean_gpp**
- real, dimension(:), pointer **mmean_npp**
- real, dimension(:), pointer **mmean_leaf_resp**
- real, dimension(:), pointer **mmean_root_resp**
- real, dimension(:), pointer **mmean_leaf_growth_resp**
- real, dimension(:), pointer **mmean_root_growth_resp**
- real, dimension(:), pointer **mmean_sapa_growth_resp**
- real, dimension(:), pointer **mmean_sapb_growth_resp**
- real, dimension(:), pointer **mmean_leaf_storage_resp**
- real, dimension(:), pointer **mmean_root_storage_resp**
- real, dimension(:), pointer **mmean_sapa_storage_resp**
- real, dimension(:), pointer **mmean_sapb_storage_resp**
- real, dimension(:), pointer **mmean_plresp**
- real, dimension(:), pointer **mmean_leaf_energy**
- real, dimension(:), pointer **mmean_leaf_water**
- real, dimension(:), pointer **mmean_leaf_hcap**
- real, dimension(:), pointer **mmean_leaf_vpdef**
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- real, dimension(:), pointer **mmean_leaf_fliq**
- real, dimension(:), pointer **mmean_leaf_gsw**
- real, dimension(:), pointer **mmean_leaf_gbw**
- real, dimension(:), pointer **mmean_wood_energy**
- real, dimension(:), pointer **mmean_wood_water**
- real, dimension(:), pointer **mmean_wood_hcap**
- real, dimension(:), pointer **mmean_wood_temp**
- real, dimension(:), pointer **mmean_wood_fliq**
- real, dimension(:), pointer **mmean_wood_gbw**
- real, dimension(:), pointer **mmean_fs_open**
- real, dimension(:), pointer **mmean_fsw**
- real, dimension(:), pointer **mmean_fsn**
- real, dimension(:), pointer **mmean_a_open**
- real, dimension(:), pointer **mmean_a_closed**
- real, dimension(:), pointer **mmean_a_net**
- real, dimension(:), pointer **mmean_a_light**
- real, dimension(:), pointer **mmean_a_rubp**
- real, dimension(:), pointer **mmean_a_co2**
- real, dimension(:), pointer **mmean_psi_open**
- real, dimension(:), pointer **mmean_psi_closed**
- real, dimension(:), pointer **mmean_water_supply**
- real, dimension(:), pointer **mmean_par_l**
- real, dimension(:), pointer **mmean_par_l_beam**
- real, dimension(:), pointer **mmean_par_l_diff**
- real, dimension(:), pointer **mmean_rshort_l**
- real, dimension(:), pointer **mmean_rlong_l**
- real, dimension(:), pointer **mmean_sensible_lc**
- real, dimension(:), pointer **mmean_vapor_lc**
- real, dimension(:), pointer **mmean_transp**
- real, dimension(:), pointer **mmean_intercepted_al**
- real, dimension(:), pointer **mmean_wshed_lg**

- real, dimension(:), pointer **mmean_rshort_w**
- real, dimension(:), pointer **mmean_rlong_w**
- real, dimension(:), pointer **mmean_sensible_wc**
- real, dimension(:), pointer **mmean_vapor_wc**
- real, dimension(:), pointer **mmean_intercepted_aw**
- real, dimension(:), pointer **mmean_wshed_wg**
- real, dimension(:), pointer **mmean_rh**
- real, dimension(:), pointer **mmean_cwd_rh**
- real, dimension(:), pointer **mmean_nep**
- real, dimension(:), pointer **mmean_rk4step**
- real, dimension(:), pointer **mmean_available_water**
- real, dimension(:), pointer **mmean_can_theiv**
- real, dimension(:), pointer **mmean_can_theta**
- real, dimension(:), pointer **mmean_can_vpdef**
- real, dimension(:), pointer **mmean_can_temp**
- real, dimension(:), pointer **mmean_can_shv**
- real, dimension(:), pointer **mmean_can_co2**
- real, dimension(:), pointer **mmean_can_rhos**
- real, dimension(:), pointer **mmean_can_prss**
- real, dimension(:), pointer **mmean_gnd_temp**
- real, dimension(:), pointer **mmean_gnd_shv**
- real, dimension(:), pointer **mmean_can_ggnd**
- real, dimension(:), pointer **mmean_sfcw_depth**
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- real, dimension(:), pointer **mmean_sfcw_temp**
- real, dimension(:), pointer **mmean_sfcw_fliq**
- real, dimension(:,:), pointer **mmean_soil_energy**
- real, dimension(:,:), pointer **mmean_soil_mstpot**
- real, dimension(:,:), pointer **mmean_soil_water**
- real, dimension(:,:), pointer **mmean_soil_temp**
- real, dimension(:,:), pointer **mmean_soil_fliq**
- real, dimension(:), pointer **mmean_rshort_gnd**
- real, dimension(:), pointer **mmean_par_gnd**
- real, dimension(:), pointer **mmean_rlong_gnd**
- real, dimension(:), pointer **mmean_rlongup**
- real, dimension(:), pointer **mmean_parup**
- real, dimension(:), pointer **mmean_nirup**
- real, dimension(:), pointer **mmean_rshortup**
- real, dimension(:), pointer **mmean_rnet**
- real, dimension(:), pointer **mmean_albedo**
- real, dimension(:), pointer **mmean_albedo_par**
- real, dimension(:), pointer **mmean_albedo_nir**
- real, dimension(:), pointer **mmean_rlong_albedo**
- real, dimension(:), pointer **mmean_ustar**
- real, dimension(:), pointer **mmean_tstar**
- real, dimension(:), pointer **mmean_qstar**
- real, dimension(:), pointer **mmean_cstar**
- real, dimension(:), pointer **mmean_carbon_ac**
- real, dimension(:), pointer **mmean_carbon_st**

- real, dimension(:), pointer **mmean_vapor_gc**
- real, dimension(:), pointer **mmean_vapor_ac**
- real, dimension(:,:), pointer **mmean_smoist_gg**
- real, dimension(:), pointer **mmean_throughfall**
- real, dimension(:,:), pointer **mmean_transloss**
- real, dimension(:), pointer **mmean_runoff**
- real, dimension(:), pointer **mmean_drainage**
- real, dimension(:), pointer **mmean_sensible_gc**
- real, dimension(:), pointer **mmean_sensible_ac**
- real, dimension(:,:), pointer **mmean_sensible_gg**
- real, dimension(:), pointer **mmean_qthroughfall**
- real, dimension(:), pointer **mmean_qrunoff**
- real, dimension(:), pointer **mmean_qdrainage**
- real, dimension(:), pointer **mmean_nppleaf**
- real, dimension(:), pointer **mmean_nppfroot**
- real, dimension(:), pointer **mmean_nppsapwood**
- real, dimension(:), pointer **mmean_nppcroot**
- real, dimension(:), pointer **mmean_nppseeds**
- real, dimension(:), pointer **mmean_nppwood**
- real, dimension(:), pointer **mmean_nppdaily**
- real, dimension(:), pointer **mmean_A_decomp**
- real, dimension(:), pointer **mmean_Af_decomp**
- real, dimension(:), pointer **mmean_co2_residual**
- real, dimension(:), pointer **mmean_energy_residual**
- real, dimension(:), pointer **mmean_water_residual**
- real, dimension(:), pointer **mmean_atm_theiv**
- real, dimension(:), pointer **mmean_atm_theta**
- real, dimension(:), pointer **mmean_atm_temp**
- real, dimension(:), pointer **mmean_atm_vpdef**
- real, dimension(:), pointer **mmean_atm_shv**
- real, dimension(:), pointer **mmean_atm_rshort**
- real, dimension(:), pointer **mmean_atm_rshort_diff**
- real, dimension(:), pointer **mmean_atm_par**
- real, dimension(:), pointer **mmean_atm_par_diff**
- real, dimension(:), pointer **mmean_atm_rlong**
- real, dimension(:), pointer **mmean_atm_vels**
- real, dimension(:), pointer **mmean_atm_rhos**
- real, dimension(:), pointer **mmean_atm_prss**
- real, dimension(:), pointer **mmean_atm_co2**
- real, dimension(:), pointer **mmean_pcp_g**
- real, dimension(:), pointer **mmean_qpcpg**
- real, dimension(:), pointer **mmean_dpcpg**
- real, dimension(:), pointer **mmsqu_gpp**
- real, dimension(:), pointer **mmsqu_npp**
- real, dimension(:), pointer **mmsqu_plresp**
- real, dimension(:), pointer **mmsqu_sensible_lc**
- real, dimension(:), pointer **mmsqu_vapor_lc**
- real, dimension(:), pointer **mmsqu_transp**
- real, dimension(:), pointer **mmsqu_sensible_wc**
- real, dimension(:), pointer **mmsqu_vapor_wc**

- real, dimension(:), pointer **mmsqu_rh**
- real, dimension(:), pointer **mmsqu_cwd_rh**
- real, dimension(:), pointer **mmsqu_nep**
- real, dimension(:), pointer **mmsqu_rlongup**
- real, dimension(:), pointer **mmsqu_parup**
- real, dimension(:), pointer **mmsqu_nirup**
- real, dimension(:), pointer **mmsqu_rshortup**
- real, dimension(:), pointer **mmsqu_rnet**
- real, dimension(:), pointer **mmsqu_albedo**
- real, dimension(:), pointer **mmsqu_ustar**
- real, dimension(:), pointer **mmsqu_carbon_ac**
- real, dimension(:), pointer **mmsqu_carbon_st**
- real, dimension(:), pointer **mmsqu_vapor_gc**
- real, dimension(:), pointer **mmsqu_vapor_ac**
- real, dimension(:), pointer **mmsqu_sensible_gc**
- real, dimension(:), pointer **mmsqu_sensible_ac**
- real, dimension(:,), pointer **qmean_gpp**
- real, dimension(:,), pointer **qmean_npp**
- real, dimension(:,), pointer **qmean_leaf_resp**
- real, dimension(:,), pointer **qmean_root_resp**
- real, dimension(:,), pointer **qmean_leaf_growth_resp**
- real, dimension(:,), pointer **qmean_root_growth_resp**
- real, dimension(:,), pointer **qmean_sapa_growth_resp**
- real, dimension(:,), pointer **qmean_sapb_growth_resp**
- real, dimension(:,), pointer **qmean_leaf_storage_resp**
- real, dimension(:,), pointer **qmean_root_storage_resp**
- real, dimension(:,), pointer **qmean_sapa_storage_resp**
- real, dimension(:,), pointer **qmean_sapb_storage_resp**
- real, dimension(:,), pointer **qmean_plresp**
- real, dimension(:,), pointer **qmean_leaf_energy**
- real, dimension(:,), pointer **qmean_leaf_water**
- real, dimension(:,), pointer **qmean_leaf_hcap**
- real, dimension(:,), pointer **qmean_leaf_vpdef**
- real, dimension(:,), pointer **qmean_leaf_temp**
- real, dimension(:,), pointer **qmean_leaf_fliq**
- real, dimension(:,), pointer **qmean_leaf_gsw**
- real, dimension(:,), pointer **qmean_leaf_gbw**
- real, dimension(:,), pointer **qmean_wood_energy**
- real, dimension(:,), pointer **qmean_wood_water**
- real, dimension(:,), pointer **qmean_wood_hcap**
- real, dimension(:,), pointer **qmean_wood_temp**
- real, dimension(:,), pointer **qmean_wood_fliq**
- real, dimension(:,), pointer **qmean_wood_gbw**
- real, dimension(:,), pointer **qmean_fs_open**
- real, dimension(:,), pointer **qmean_fsw**
- real, dimension(:,), pointer **qmean_fsn**
- real, dimension(:,), pointer **qmean_a_open**
- real, dimension(:,), pointer **qmean_a_closed**
- real, dimension(:,), pointer **qmean_a_net**
- real, dimension(:,), pointer **qmean_a_light**

- real, dimension(:,:), pointer **qmean_a_rubp**
- real, dimension(:,:), pointer **qmean_a_co2**
- real, dimension(:,:), pointer **qmean_psi_open**
- real, dimension(:,:), pointer **qmean_psi_closed**
- real, dimension(:,:), pointer **qmean_water_supply**
- real, dimension(:,:), pointer **qmean_par_l**
- real, dimension(:,:), pointer **qmean_par_l_beam**
- real, dimension(:,:), pointer **qmean_par_l_diff**
- real, dimension(:,:), pointer **qmean_rshort_l**
- real, dimension(:,:), pointer **qmean_rlong_l**
- real, dimension(:,:), pointer **qmean_sensible_lc**
- real, dimension(:,:), pointer **qmean_vapor_lc**
- real, dimension(:,:), pointer **qmean_transp**
- real, dimension(:,:), pointer **qmean_intercepted_al**
- real, dimension(:,:), pointer **qmean_wshed_lg**
- real, dimension(:,:), pointer **qmean_rshort_w**
- real, dimension(:,:), pointer **qmean_rlong_w**
- real, dimension(:,:), pointer **qmean_sensible_wc**
- real, dimension(:,:), pointer **qmean_vapor_wc**
- real, dimension(:,:), pointer **qmean_intercepted_aw**
- real, dimension(:,:), pointer **qmean_wshed_wg**
- real, dimension(:,:), pointer **qmean_rh**
- real, dimension(:,:), pointer **qmean_cwd_rh**
- real, dimension(:,:), pointer **qmean_nep**
- real, dimension(:,:), pointer **qmean_rk4step**
- real, dimension(:,:), pointer **qmean_available_water**
- real, dimension(:,:), pointer **qmean_can_theiv**
- real, dimension(:,:), pointer **qmean_can_theta**
- real, dimension(:,:), pointer **qmean_can_vpdef**
- real, dimension(:,:), pointer **qmean_can_temp**
- real, dimension(:,:), pointer **qmean_can_shv**
- real, dimension(:,:), pointer **qmean_can_co2**
- real, dimension(:,:), pointer **qmean_can_rhos**
- real, dimension(:,:), pointer **qmean_can_prss**
- real, dimension(:,:), pointer **qmean_gnd_temp**
- real, dimension(:,:), pointer **qmean_gnd_shv**
- real, dimension(:,:), pointer **qmean_can_ggnd**
- real, dimension(:,:), pointer **qmean_sfcw_depth**
- real, dimension(:,:), pointer **qmean_sfcw_energy**
- real, dimension(:,:), pointer **qmean_sfcw_mass**
- real, dimension(:,:), pointer **qmean_sfcw_temp**
- real, dimension(:,:), pointer **qmean_sfcw_fliq**
- real, dimension(:,:), pointer **qmean_soil_energy**
- real, dimension(:,:), pointer **qmean_soil_mstpot**
- real, dimension(:,:), pointer **qmean_soil_water**
- real, dimension(:,:), pointer **qmean_soil_temp**
- real, dimension(:,:), pointer **qmean_soil_fliq**
- real, dimension(:,:), pointer **qmean_rshort_gnd**
- real, dimension(:,:), pointer **qmean_par_gnd**
- real, dimension(:,:), pointer **qmean_rlong_gnd**

- real, dimension(:,:), pointer **qmean_rlongup**
- real, dimension(:,:), pointer **qmean_parup**
- real, dimension(:,:), pointer **qmean_nirup**
- real, dimension(:,:), pointer **qmean_rshortup**
- real, dimension(:,:), pointer **qmean_rnet**
- real, dimension(:,:), pointer **qmean_albedo**
- real, dimension(:,:), pointer **qmean_albedo_par**
- real, dimension(:,:), pointer **qmean_albedo_nir**
- real, dimension(:,:), pointer **qmean_rlong_albedo**
- real, dimension(:,:), pointer **qmean_ustar**
- real, dimension(:,:), pointer **qmean_tstar**
- real, dimension(:,:), pointer **qmean_qstar**
- real, dimension(:,:), pointer **qmean_cstar**
- real, dimension(:,:), pointer **qmean_carbon_ac**
- real, dimension(:,:), pointer **qmean_carbon_st**
- real, dimension(:,:), pointer **qmean_vapor_gc**
- real, dimension(:,:), pointer **qmean_vapor_ac**
- real, dimension(:,:), pointer **qmean_smoist_gg**
- real, dimension(:,:), pointer **qmean_throughfall**
- real, dimension(:,:), pointer **qmean_transloss**
- real, dimension(:,:), pointer **qmean_runoff**
- real, dimension(:,:), pointer **qmean_drainage**
- real, dimension(:,:), pointer **qmean_sensible_gc**
- real, dimension(:,:), pointer **qmean_sensible_ac**
- real, dimension(:,:), pointer **qmean_sensible_gg**
- real, dimension(:,:), pointer **qmean_qthroughfall**
- real, dimension(:,:), pointer **qmean_qrunoff**
- real, dimension(:,:), pointer **qmean_qdrainage**
- real, dimension(:,:), pointer **qmean_atm_theiv**
- real, dimension(:,:), pointer **qmean_atm_theta**
- real, dimension(:,:), pointer **qmean_atm_temp**
- real, dimension(:,:), pointer **qmean_atm_vpdef**
- real, dimension(:,:), pointer **qmean_atm_shv**
- real, dimension(:,:), pointer **qmean_atm_rshort**
- real, dimension(:,:), pointer **qmean_atm_rshort_diff**
- real, dimension(:,:), pointer **qmean_atm_par**
- real, dimension(:,:), pointer **qmean_atm_par_diff**
- real, dimension(:,:), pointer **qmean_atm_rlong**
- real, dimension(:,:), pointer **qmean_atm_vels**
- real, dimension(:,:), pointer **qmean_atm_rhos**
- real, dimension(:,:), pointer **qmean_atm_prss**
- real, dimension(:,:), pointer **qmean_atm_co2**
- real, dimension(:,:), pointer **qmean_pcpqg**
- real, dimension(:,:), pointer **qmean_qpcpg**
- real, dimension(:,:), pointer **qmean_dpcpg**
- real, dimension(:,:), pointer **qmsqu_gpp**
- real, dimension(:,:), pointer **qmsqu_npp**
- real, dimension(:,:), pointer **qmsqu_plresp**
- real, dimension(:,:), pointer **qmsqu_sensible_lc**
- real, dimension(:,:), pointer **qmsqu_vapor_lc**

- real, dimension(:,:), pointer **qmsqu_transp**
- real, dimension(:,:), pointer **qmsqu_sensible_wc**
- real, dimension(:,:), pointer **qmsqu_vapor_wc**
- real, dimension(:,:), pointer **qmsqu_rh**
- real, dimension(:,:), pointer **qmsqu_cwd_rh**
- real, dimension(:,:), pointer **qmsqu_nep**
- real, dimension(:,:), pointer **qmsqu_rlongup**
- real, dimension(:,:), pointer **qmsqu_parup**
- real, dimension(:,:), pointer **qmsqu_nirup**
- real, dimension(:,:), pointer **qmsqu_rshortup**
- real, dimension(:,:), pointer **qmsqu_rnet**
- real, dimension(:,:), pointer **qmsqu_albedo**
- real, dimension(:,:), pointer **qmsqu_ustar**
- real, dimension(:,:), pointer **qmsqu_carbon_ac**
- real, dimension(:,:), pointer **qmsqu_carbon_st**
- real, dimension(:,:), pointer **qmsqu_vapor_gc**
- real, dimension(:,:), pointer **qmsqu_vapor_ac**
- real, dimension(:,:), pointer **qmsqu_sensible_gc**
- real, dimension(:,:), pointer **qmsqu_sensible_ac**

The documentation for this struct was generated from the following file:

- memory/ed_state_vars.F90

4.5 `ename_coms::ename_vars` Struct Reference

Public Attributes

- `character(len=str_len) expnme`
- `character(len=str_len) runtime`
- `integer loadmeth`
- `integer itimea`
- `integer idatea`
- `integer imontha`
- `integer iyeara`
- `integer itimez`
- `integer idatez`
- `integer imonthz`
- `integer iyearz`
- `real dtlsm`
- `real radfrq`
- `integer ifoutput`
- `integer idoutput`
- `integer imoutput`
- `integer iqoutput`
- `integer iyoutput`
- `integer itoutput`
- `integer isoutput`
- `integer iadd_site_means`
- `integer iadd_patch_means`
- `integer iadd_cohort_means`
- `integer attach_metadata`
- `integer iclobber`
- `integer unitfast`
- `integer unitstate`
- `real frqfast`
- `real frqstate`
- `real outfast`
- `real outstate`
- `character(len=str_len) ffilout`
- `integer ied_init_mode`
- `character(len=str_len), dimension(maxgrds) sfilin`
- `character(len=str_len) sfilout`
- `integer itimeh`
- `integer idateh`
- `integer imonthh`
- `integer iyearh`
- `integer ngrids`
- `integer, dimension(maxgrds) nnxp`
- `integer, dimension(maxgrds) nnyp`
- `real deltay`
- `real deltax`
- `integer, dimension(maxgrds) nstratx`
- `integer, dimension(maxgrds) nstraty`

- real **polelat**
- real **polelon**
- real, dimension(maxgrds) **centlat**
- real, dimension(maxgrds) **centlon**
- integer, dimension(maxgrds) **ninest**
- integer, dimension(maxgrds) **njnest**
- integer **nzg**
- integer **nzs**
- integer, dimension(maxgrds) **isoilflg**
- integer **nsicon**
- integer **isoilcol**
- real **slxclay**
- real **slxsand**
- integer **isoilstateinit**
- integer **isoildepthflg**
- integer **isoilbc**
- real **sldrain**
- real, dimension(nzgmax) **slz**
- real, dimension(nzgmax) **slmstr**
- real, dimension(nzgmax) **stgoff**
- character(len=str_len), dimension(maxgrds) **soil_database**
- character(len=str_len), dimension(maxgrds) **veg_database**
- character(len=str_len), dimension(maxgrds) **lu_database**
- character(len=str_len), dimension(maxgrds) **plantation_file**
- character(len=str_len), dimension(maxgrds) **lu_rescale_file**
- character(len=str_len) **thsums_database**
- character(len=str_len) **soilstate_db**
- character(len=str_len) **soildepth_db**
- character(len=str_len) **ed_met_driver_db**
- integer **n_poi**
- integer **n_ed_region**
- integer **grid_type**
- real **grid_res**
- real, dimension(max_poi) **poi_lat**
- real, dimension(max_poi) **poi_lon**
- real, dimension(max_poi) **poi_res**
- real, dimension(max_ed_regions) **ed_reg_latmin**
- real, dimension(max_ed_regions) **ed_reg_latmax**
- real, dimension(max_ed_regions) **ed_reg_lonmin**
- real, dimension(max_ed_regions) **ed_reg_lonmax**
- integer **ivegt_dynamics**
- integer **ibigleaf**
- integer **integration_scheme**
- integer **growth_resp_scheme**
- integer **storage_resp_scheme**
- real **rk4_tolerance**
- integer **ibranh_thermo**
- integer **iphysiol**
- integer **iallom**
- integer **igrass**

- integer **iphen_scheme**
- integer **repro_scheme**
- integer **lapse_scheme**
- integer **crown_mod**
- integer **icanrad**
- real **ltrans_vis**
- real **ltrans_nir**
- real **lreflect_vis**
- real **lreflect_nir**
- real **orient_tree**
- real **orient_grass**
- real **clump_tree**
- real **clump_grass**
- integer **h2o_plant_lim**
- integer **iddmort_scheme**
- integer **cbr_scheme**
- real **ddmort_const**
- real **vmfact_c3**
- real **vmfact_c4**
- real **mphoto_trc3**
- real **mphoto_tec3**
- real **mphoto_c4**
- real **bphoto_blc3**
- real **bphoto_nlc3**
- real **bphoto_c4**
- real **kw_grass**
- real **kw_tree**
- real **gamma_c3**
- real **gamma_c4**
- real **d0_grass**
- real **d0_tree**
- real **alpha_c3**
- real **alpha_c4**
- real **klowco2in**
- real **rrffact**
- real **growthresp**
- real **lwidth_grass**
- real **lwidth_bltree**
- real **lwidth_nltree**
- real **q10_c3**
- real **q10_c4**
- real **thetacrit**
- integer **quantum_efficiency_T**
- integer **n_plant_lim**
- integer **n_decomp_lim**
- integer **decomp_scheme**
- integer **include_fire**
- real **fire_parameter**
- real **sm_fire**
- integer **ianth_disturb**

- integer **icanturb**
- integer **isfclyrm**
- integer **ied_grndvap**
- integer **ipercol**
- integer, dimension(n_pft) **include_these_pft**
- integer **agri_stock**
- integer **plantation_stock**
- integer **pft_1st_check**
- real **treefall_disturbance_rate**
- real **Time2Canopy**
- real **runoff_time**
- real **ubmin**
- real **ugbmin**
- real **ustmin**
- real **gamm**
- real **gamh**
- real **tprandtl**
- real **ribmax**
- real **leaf_maxwhc**
- integer **iprintpolys**
- integer **npvars**
- character(len=str_len), dimension(maxpvars) **printvars**
- character(len=str_len), dimension(maxpvars) **pfmtstr**
- integer **ipmin**
- integer **ipmax**
- integer **imetype**
- integer **ishuffle**
- integer **metcyc1**
- integer **metcycf**
- integer **imetavg**
- integer **imetrad**
- real **initial_co2**
- integer **iphenys1**
- integer **iphenysf**
- integer **iphenyf1**
- integer **iphenyff**
- real **radint**
- real **radslp**
- character(len=str_len) **iedcnfgf**
- character(len=str_len) **phenpath**
- character(len=str_len) **event_file**
- integer **dt_census**
- integer **yr1st_census**
- integer **mon1st_census**
- real **min_recruit_dbh**
- integer **idetailed**
- integer **patch_keep**
- integer **maxsite**
- integer **maxpatch**
- integer **maxcohort**

- real `min_site_area`
- real `min_patch_area`
- real `zrough`
- real `edres`

The documentation for this struct was generated from the following file:

- `memory/ename_coms.f90`

4.6 c34constants::farq_consts Struct Reference

Public Attributes

- integer **photo_pathway**
- real(kind=8) **D0**
- real(kind=8) **m**
- real(kind=8) **b**
- real(kind=8) **alpha0**
- real(kind=8) **vm0**
- real(kind=8) **vm_low_temp**
- real(kind=8) **vm_high_temp**
- real(kind=8) **vm_hor**
- real(kind=8) **vm_q10**
- real(kind=8) **vm_decay_a**
- real(kind=8) **vm_decay_b**
- real(kind=8) **vm_decay_e**
- real(kind=8) **rd0**
- real(kind=8) **rd_low_temp**
- real(kind=8) **rd_high_temp**
- real(kind=8) **rd_hor**
- real(kind=8) **rd_q10**
- real(kind=8) **rd_decay_e**

The documentation for this struct was generated from the following file:

- memory/c34constants.f90

4.7 an_header::head_table Struct Reference

Public Attributes

- character(len=16) **string**
- integer **npointer**
- integer **idim_type**
- integer **ngrid**
- integer **nvalues**

The documentation for this struct was generated from the following file:

- io/an_header.f90

4.8 rk4_coms::integration_vars Struct Reference

Public Attributes

- type(rk4patchtype), pointer **initp**
- type(rk4patchtype), pointer **dinitp**
- type(rk4patchtype), pointer **yscal**
- type(rk4patchtype), pointer **y**
- type(rk4patchtype), pointer **dydx**
- type(rk4patchtype), pointer **yerr**
- type(rk4patchtype), pointer **ytemp**
- type(rk4patchtype), pointer **ak2**
- type(rk4patchtype), pointer **ak3**
- type(rk4patchtype), pointer **ak4**
- type(rk4patchtype), pointer **ak5**
- type(rk4patchtype), pointer **ak6**
- type(rk4patchtype), pointer **ak7**
- type(bdf2patchtype), pointer **yprev**

The documentation for this struct was generated from the following file:

- memory/rk4_coms.f90

4.9 libxml2f90_interface_module::libxml2f90__addid Interface Reference

Public Member Functions

- subroutine **libxml2f90_il_addidr8** (id, value)
- subroutine **libxml2f90_il_addidr8a** (id, n, value)

The documentation for this interface was generated from the following file:

- `utils/libxml2f90.f90_pp.f90`

4.10 libxml2f90_interface_module::libxml2f90__getid Interface Reference

Public Member Functions

- subroutine **libxml2f90__il_getr8** (id, size_, val)
- subroutine **libxml2f90__il_getr8_** (id, val)
- subroutine **libxml2f90__il_getc8** (id, size_, val)
- subroutine **libxml2f90__il_getc8_** (id, val)
- subroutine **libxml2f90__il_geti4** (id, size_, val)
- subroutine **libxml2f90__il_geti4_** (id, val)
- subroutine **libxml2f90__il_getl4** (id, size_, val)
- subroutine **libxml2f90__il_getl4_** (id, val)
- subroutine **libxml2f90__il_getstring** (id, size_, val)
- subroutine **libxml2f90__il_getstring_** (id, val)

The documentation for this interface was generated from the following file:

- `utils/libxml2f90.f90_pp.f90`

4.11 libxml2f90_interface_module::libxml2f90__getpid Interface Reference

Public Member Functions

- subroutine **libxml2f90__il_getpr8** (id, size_, val)
- subroutine **libxml2f90__il_getpr8_** (id, val)
- subroutine **libxml2f90__il_getpc8** (id, size_, val)
- subroutine **libxml2f90__il_getpc8_** (id, val)
- subroutine **libxml2f90__il_getpi4** (id, size_, val)
- subroutine **libxml2f90__il_getpi4_** (id, val)
- subroutine **libxml2f90__il_getpl4** (id, size_, val)
- subroutine **libxml2f90__il_getpl4_** (id, val)
- subroutine **libxml2f90__il_getpstring** (id, size_, val)
- subroutine **libxml2f90__il_getpstring_** (id, val)

The documentation for this interface was generated from the following file:

- `utils/libxml2f90.f90_pp.f90`

4.12 ll_module::ll_type Struct Reference

Public Attributes

- character(1024) **LL_ID**
- character(32) **TAG**
- character(32) **ID**
- character(1), dimension(:), pointer **VALUE**
- type([ll_type](#)), pointer **NEXT_LL**
- type([ll_type](#)), pointer **FIRST_TAG**
- type([ll_type](#)), pointer **NEXT_TAG**
- type([ll_type](#)), pointer **UP_TAG**
- type([ll_type](#)), pointer **DOWN_TAG**
- type([ll_type](#)), pointer **FIRST_ID**
- type([ll_type](#)), pointer **NEXT_ID**
- type([ll_type](#)), pointer **NEXT_PID**

The documentation for this struct was generated from the following file:

- `utils/libxml2f90.f90_pp.f90`

4.13 disturb_coms::lutime Struct Reference

Public Attributes

- integer **landuse_year**
- real, dimension(num_lu_trans) **landuse**

The documentation for this struct was generated from the following file:

- memory/disturb_coms.f90

4.14 met_driver_coms::met_driv_data Struct Reference

Public Attributes

- real, dimension(:), pointer **nbdsf**
- real, dimension(:), pointer **nddsf**
- real, dimension(:), pointer **vbdsf**
- real, dimension(:), pointer **vddsf**
- real, dimension(:), pointer **prate**
- real, dimension(:), pointer **dlwrf**
- real, dimension(:), pointer **pres**
- real, dimension(:), pointer **hgt**
- real, dimension(:), pointer **ugrd**
- real, dimension(:), pointer **vgrd**
- real, dimension(:), pointer **atm_ustar**
- real, dimension(:), pointer **sh**
- real, dimension(:), pointer **tmp**
- real, dimension(:), pointer **co2**

The documentation for this struct was generated from the following file:

- memory/met_driver_coms.f90

4.15 met_driver_coms::met_driv_state Struct Reference

Public Attributes

- real **nir_beam**
- real **nir_diffuse**
- real **par_beam**
- real **par_diffuse**
- real **atm_tmp**
- real **atm_theta**
- real **atm_theiv**
- real **atm_vpdef**
- real **atm_shv**
- real **theta**
- real **rshort**
- real **rshort_diffuse**
- real **rlong**
- real **pcpg**
- real **qpcpg**
- real **dpcpg**
- real **vels**
- real **vels_stab**
- real **vels_unstab**
- real **atm_ustar**
- real **prss**
- real **exner**
- real **geoht**
- real **atm_co2**
- real **pptnorm**

The documentation for this struct was generated from the following file:

- memory/met_driver_coms.f90

4.16 c34constants::metinp_vars Struct Reference

Public Attributes

- real(kind=8) **can_o2**
- real(kind=8) **can_shv**
- real(kind=8) **can_co2**
- real(kind=8) **can_rhos**
- real(kind=8) **can_prss**
- real(kind=8) **leaf_temp**
- real(kind=8) **lint_shv**
- real(kind=8) **par**
- real(kind=8) **blyr_cond_co2**
- real(kind=8) **blyr_cond_h2o**

The documentation for this struct was generated from the following file:

- memory/c34constants.f90

4.17 libxml2f90_strings_module::OPERATOR(+) Interface Reference

Public Member Functions

- function **uppercase** (old)

The documentation for this interface was generated from the following file:

- `utils/libxml2f90.f90_pp.f90`

4.18 libxml2f90_strings_module::OPERATOR(-) Interface Reference

Public Member Functions

- function **lowercase** (old)

The documentation for this interface was generated from the following file:

- `utils/libxml2f90.f90_pp.f90`

4.19 libxml2f90_strings_module::OPERATOR(.itos.) Interface Reference

Public Member Functions

- `character(256) i_2_s (i)`

The documentation for this interface was generated from the following file:

- `utils/libxml2f90.f90_pp.f90`

4.20 libxml2f90_strings_module::OPERATOR(.rtos.) Interface Reference

Public Member Functions

- `character(256) r_2_s(i)`

The documentation for this interface was generated from the following file:

- `utils/libxml2f90.f90_pp.f90`

4.21 ll_module::operator(.xmleq.) Interface Reference

Public Member Functions

- logical(4) **xmlequals** (string1, string2)

The documentation for this interface was generated from the following file:

- utils/libxml2f90.f90_pp.f90

4.22 ed_state_vars::patchtype Struct Reference

Public Attributes

- integer **ncohorts**
- integer **coglob_id**
- integer, dimension(:), pointer **pft**
- real, dimension(:), pointer **nplant**
- integer, dimension(:), pointer **phenology_status**
- integer, dimension(:), pointer **recruit_dbh**
- integer, dimension(:), pointer **census_status**
- real, dimension(:), pointer **hite**
- real, dimension(:), pointer **agb**
- real, dimension(:), pointer **basarea**
- real, dimension(:), pointer **dagb_dt**
- real, dimension(:), pointer **dlnagb_dt**
- real, dimension(:), pointer **dba_dt**
- real, dimension(:), pointer **dlnba_dt**
- real, dimension(:), pointer **ddbh_dt**
- real, dimension(:), pointer **dlndbh_dt**
- real, dimension(:), pointer **dbh**
- real, dimension(:), pointer **bdead**
- real, dimension(:), pointer **bleaf**
- real, dimension(:), pointer **balive**
- real, dimension(:), pointer **broot**
- real, dimension(:), pointer **bsapwooda**
- real, dimension(:), pointer **bsapwoodb**
- real, dimension(:), pointer **bstorage**
- real, dimension(:), pointer **bseeds**
- real, dimension(:), pointer **lai**
- real, dimension(:), pointer **wai**
- real, dimension(:), pointer **crown_area**
- logical, dimension(:), pointer **leaf_resolvable**
- logical, dimension(:), pointer **wood_resolvable**
- real, dimension(:,:), pointer **cb**
- real, dimension(:,:), pointer **cb_lightmax**
- real, dimension(:,:), pointer **cb_moistmax**
- real, dimension(:,:), pointer **cb_mlmax**
- real, dimension(:), pointer **cbr_bar**
- real, dimension(:), pointer **leaf_energy**
- real, dimension(:), pointer **leaf_temp**
- real, dimension(:), pointer **leaf_vpdef**
- real, dimension(:), pointer **leaf_temp_pv**
- real, dimension(:), pointer **leaf_fliq**
- real, dimension(:), pointer **leaf_water**
- real, dimension(:), pointer **leaf_hcap**
- real, dimension(:), pointer **wood_energy**
- real, dimension(:), pointer **wood_temp**
- real, dimension(:), pointer **wood_temp_pv**
- real, dimension(:), pointer **wood_fliq**

- real, dimension(:), pointer **wood_water**
- real, dimension(:), pointer **wood_hcap**
- real, dimension(:), pointer **veg_wind**
- real, dimension(:), pointer **lsfc_shv_open**
- real, dimension(:), pointer **lsfc_shv_closed**
- real, dimension(:), pointer **lsfc_co2_open**
- real, dimension(:), pointer **lsfc_co2_closed**
- real, dimension(:), pointer **lint_shv**
- real, dimension(:), pointer **lint_co2_open**
- real, dimension(:), pointer **lint_co2_closed**
- real, dimension(:), pointer **today_leaf_resp**
- real, dimension(:), pointer **today_root_resp**
- real, dimension(:), pointer **today_gpp**
- real, dimension(:), pointer **today_gpp_pot**
- real, dimension(:), pointer **today_gpp_lightmax**
- real, dimension(:), pointer **today_gpp_moistmax**
- real, dimension(:), pointer **today_gpp_mlmax**
- real, dimension(:), pointer **today_nppleaf**
- real, dimension(:), pointer **today_nppfroot**
- real, dimension(:), pointer **today_nppsapwood**
- real, dimension(:), pointer **today_nppcroot**
- real, dimension(:), pointer **today_nppseeds**
- real, dimension(:), pointer **today_nppwood**
- real, dimension(:), pointer **today_nppdaily**
- real, dimension(:), pointer **leaf_growth_resp**
- real, dimension(:), pointer **root_growth_resp**
- real, dimension(:), pointer **sapa_growth_resp**
- real, dimension(:), pointer **sapb_growth_resp**
- real, dimension(:), pointer **leaf_storage_resp**
- real, dimension(:), pointer **root_storage_resp**
- real, dimension(:), pointer **sapa_storage_resp**
- real, dimension(:), pointer **sapb_storage_resp**
- real, dimension(:), pointer **monthly_dndt**
- real, dimension(:), pointer **monthly_dlnndt**
- real, dimension(:,:), pointer **mort_rate**
- integer, dimension(:), pointer **krdepth**
- integer, dimension(:), pointer **first_census**
- integer, dimension(:), pointer **new_recruit_flag**
- real, dimension(:), pointer **light_level**
- real, dimension(:), pointer **light_level_beam**
- real, dimension(:), pointer **light_level_diff**
- real, dimension(:), pointer **par_level_beam**
- real, dimension(:), pointer **par_level_diffu**
- real, dimension(:), pointer **par_level_diffd**
- real, dimension(:), pointer **par_l**
- real, dimension(:), pointer **par_l_beam**
- real, dimension(:), pointer **par_l_diffuse**
- real, dimension(:), pointer **rshort_l**
- real, dimension(:), pointer **rshort_l_beam**
- real, dimension(:), pointer **rshort_l_diffuse**

- real, dimension(:), pointer **rlong_l**
- real, dimension(:), pointer **rshort_w**
- real, dimension(:), pointer **rshort_w_beam**
- real, dimension(:), pointer **rshort_w_diffuse**
- real, dimension(:), pointer **rlong_w**
- real, dimension(:,:), pointer **rad_profile**
- real, dimension(:), pointer **leaf_gbh**
- real, dimension(:), pointer **leaf_gbw**
- real, dimension(:), pointer **wood_gbh**
- real, dimension(:), pointer **wood_gbw**
- real, dimension(:), pointer **A_open**
- real, dimension(:), pointer **A_closed**
- real, dimension(:), pointer **A_light**
- real, dimension(:), pointer **A_rubp**
- real, dimension(:), pointer **A_co2**
- real, dimension(:), pointer **psi_open**
- real, dimension(:), pointer **psi_closed**
- real, dimension(:), pointer **gsw_open**
- real, dimension(:), pointer **gsw_closed**
- real, dimension(:), pointer **leaf_gsw**
- real, dimension(:), pointer **fsw**
- real, dimension(:), pointer **fsn**
- real, dimension(:), pointer **fs_open**
- real, dimension(:), pointer **water_supply**
- real, dimension(:), pointer **leaf_maintenance**
- real, dimension(:), pointer **root_maintenance**
- real, dimension(:), pointer **leaf_drop**
- real, dimension(:), pointer **leaf_respiration**
- real, dimension(:), pointer **root_respiration**
- real, dimension(:), pointer **gpp**
- real, dimension(:), pointer **paw_avg**
- real, dimension(:), pointer **elongf**
- real, dimension(:), pointer **turnover_amp**
- real, dimension(:), pointer **llspan**
- real, dimension(:), pointer **vm_bar**
- real, dimension(:), pointer **sla**
- real, dimension(:), pointer **fmean_gpp**
- real, dimension(:), pointer **fmean_npp**
- real, dimension(:), pointer **fmean_leaf_resp**
- real, dimension(:), pointer **fmean_root_resp**
- real, dimension(:), pointer **fmean_leaf_growth_resp**
- real, dimension(:), pointer **fmean_root_growth_resp**
- real, dimension(:), pointer **fmean_sapa_growth_resp**
- real, dimension(:), pointer **fmean_sapb_growth_resp**
- real, dimension(:), pointer **fmean_leaf_storage_resp**
- real, dimension(:), pointer **fmean_root_storage_resp**
- real, dimension(:), pointer **fmean_sapa_storage_resp**
- real, dimension(:), pointer **fmean_sapb_storage_resp**
- real, dimension(:), pointer **fmean_plresp**
- real, dimension(:), pointer **fmean_leaf_energy**

- real, dimension(:), pointer **fmean_leaf_water**
- real, dimension(:), pointer **fmean_leaf_hcap**
- real, dimension(:), pointer **fmean_leaf_vpdef**
- real, dimension(:), pointer **fmean_leaf_temp**
- real, dimension(:), pointer **fmean_leaf_fliq**
- real, dimension(:), pointer **fmean_leaf_gsw**
- real, dimension(:), pointer **fmean_leaf_gbw**
- real, dimension(:), pointer **fmean_wood_energy**
- real, dimension(:), pointer **fmean_wood_water**
- real, dimension(:), pointer **fmean_wood_hcap**
- real, dimension(:), pointer **fmean_wood_temp**
- real, dimension(:), pointer **fmean_wood_fliq**
- real, dimension(:), pointer **fmean_wood_gbw**
- real, dimension(:), pointer **fmean_fs_open**
- real, dimension(:), pointer **fmean_fsw**
- real, dimension(:), pointer **fmean_fsn**
- real, dimension(:), pointer **fmean_a_open**
- real, dimension(:), pointer **fmean_a_closed**
- real, dimension(:), pointer **fmean_a_net**
- real, dimension(:), pointer **fmean_a_light**
- real, dimension(:), pointer **fmean_a_rubp**
- real, dimension(:), pointer **fmean_a_co2**
- real, dimension(:), pointer **fmean_psi_open**
- real, dimension(:), pointer **fmean_psi_closed**
- real, dimension(:), pointer **fmean_water_supply**
- real, dimension(:), pointer **fmean_light_level**
- real, dimension(:), pointer **fmean_light_level_beam**
- real, dimension(:), pointer **fmean_light_level_diff**
- real, dimension(:), pointer **fmean_par_level_beam**
- real, dimension(:), pointer **fmean_par_level_diffu**
- real, dimension(:), pointer **fmean_par_level_diffd**
- real, dimension(:), pointer **fmean_par_l**
- real, dimension(:), pointer **fmean_par_l_beam**
- real, dimension(:), pointer **fmean_par_l_diff**
- real, dimension(:), pointer **fmean_rshort_l**
- real, dimension(:), pointer **fmean_rlong_l**
- real, dimension(:), pointer **fmean_sensible_lc**
- real, dimension(:), pointer **fmean_vapor_lc**
- real, dimension(:), pointer **fmean_transp**
- real, dimension(:), pointer **fmean_intercepted_al**
- real, dimension(:), pointer **fmean_wshed_lg**
- real, dimension(:), pointer **fmean_rshort_w**
- real, dimension(:), pointer **fmean_rlong_w**
- real, dimension(:,:), pointer **fmean_rad_profile**
- real, dimension(:), pointer **fmean_sensible_wc**
- real, dimension(:), pointer **fmean_vapor_wc**
- real, dimension(:), pointer **fmean_intercepted_aw**
- real, dimension(:), pointer **fmean_wshed_wg**
- real, dimension(:), pointer **fmean_lai**
- real, dimension(:), pointer **fmean_bdead**

- real, dimension(:), pointer **dmean_nppleaf**
- real, dimension(:), pointer **dmean_nppfroot**
- real, dimension(:), pointer **dmean_nppsapwood**
- real, dimension(:), pointer **dmean_nppcroot**
- real, dimension(:), pointer **dmean_nppseeds**
- real, dimension(:), pointer **dmean_nppwood**
- real, dimension(:), pointer **dmean_nppdaily**
- real, dimension(:), pointer **mmean_lai**
- real, dimension(:), pointer **mmean_bleaf**
- real, dimension(:), pointer **mmean_broot**
- real, dimension(:), pointer **mmean_bstorage**
- real, dimension(:, :), pointer **mmean_mort_rate**
- real, dimension(:), pointer **mmean_leaf_maintenance**
- real, dimension(:), pointer **mmean_root_maintenance**
- real, dimension(:), pointer **mmean_leaf_drop**
- real, dimension(:), pointer **mmean_cb**
- real, dimension(:), pointer **dmean_gpp**
- real, dimension(:), pointer **dmean_npp**
- real, dimension(:), pointer **dmean_leaf_resp**
- real, dimension(:), pointer **dmean_root_resp**
- real, dimension(:), pointer **dmean_leaf_growth_resp**
- real, dimension(:), pointer **dmean_root_growth_resp**
- real, dimension(:), pointer **dmean_sapa_growth_resp**
- real, dimension(:), pointer **dmean_sapb_growth_resp**
- real, dimension(:), pointer **dmean_leaf_storage_resp**
- real, dimension(:), pointer **dmean_root_storage_resp**
- real, dimension(:), pointer **dmean_sapa_storage_resp**
- real, dimension(:), pointer **dmean_sapb_storage_resp**
- real, dimension(:), pointer **dmean_plresp**
- real, dimension(:), pointer **dmean_leaf_energy**
- real, dimension(:), pointer **dmean_leaf_water**
- real, dimension(:), pointer **dmean_leaf_hcap**
- real, dimension(:), pointer **dmean_leaf_vpdef**
- real, dimension(:), pointer **dmean_leaf_temp**
- real, dimension(:), pointer **dmean_leaf_fliq**
- real, dimension(:), pointer **dmean_leaf_gsw**
- real, dimension(:), pointer **dmean_leaf_gbw**
- real, dimension(:), pointer **dmean_wood_energy**
- real, dimension(:), pointer **dmean_wood_water**
- real, dimension(:), pointer **dmean_wood_hcap**
- real, dimension(:), pointer **dmean_wood_temp**
- real, dimension(:), pointer **dmean_wood_fliq**
- real, dimension(:), pointer **dmean_wood_gbw**
- real, dimension(:), pointer **dmean_fs_open**
- real, dimension(:), pointer **dmean_fsw**
- real, dimension(:), pointer **dmean_fsn**
- real, dimension(:), pointer **dmean_a_open**
- real, dimension(:), pointer **dmean_a_closed**
- real, dimension(:), pointer **dmean_a_net**
- real, dimension(:), pointer **dmean_a_light**

- real, dimension(:), pointer **dmean_a_rubp**
- real, dimension(:), pointer **dmean_a_co2**
- real, dimension(:), pointer **dmean_psi_open**
- real, dimension(:), pointer **dmean_psi_closed**
- real, dimension(:), pointer **dmean_water_supply**
- real, dimension(:), pointer **dmean_light_level**
- real, dimension(:), pointer **dmean_light_level_beam**
- real, dimension(:), pointer **dmean_light_level_diff**
- real, dimension(:), pointer **dmean_par_level_beam**
- real, dimension(:), pointer **dmean_par_level_diffu**
- real, dimension(:), pointer **dmean_par_level_diffd**
- real, dimension(:), pointer **dmean_par_l**
- real, dimension(:), pointer **dmean_par_l_beam**
- real, dimension(:), pointer **dmean_par_l_diff**
- real, dimension(:), pointer **dmean_rshort_l**
- real, dimension(:), pointer **dmean_rlong_l**
- real, dimension(:), pointer **dmean_sensible_lc**
- real, dimension(:), pointer **dmean_vapor_lc**
- real, dimension(:), pointer **dmean_transp**
- real, dimension(:), pointer **dmean_intercepted_al**
- real, dimension(:), pointer **dmean_wshed_lg**
- real, dimension(:), pointer **dmean_rshort_w**
- real, dimension(:), pointer **dmean_rlong_w**
- real, dimension(:, :), pointer **dmean_rad_profile**
- real, dimension(:), pointer **dmean_sensible_wc**
- real, dimension(:), pointer **dmean_vapor_wc**
- real, dimension(:), pointer **dmean_intercepted_aw**
- real, dimension(:), pointer **dmean_wshed_wg**
- real, dimension(:), pointer **mmean_gpp**
- real, dimension(:), pointer **mmean_npp**
- real, dimension(:), pointer **mmean_leaf_resp**
- real, dimension(:), pointer **mmean_root_resp**
- real, dimension(:), pointer **mmean_leaf_growth_resp**
- real, dimension(:), pointer **mmean_root_growth_resp**
- real, dimension(:), pointer **mmean_sapa_growth_resp**
- real, dimension(:), pointer **mmean_sapb_growth_resp**
- real, dimension(:), pointer **mmean_leaf_storage_resp**
- real, dimension(:), pointer **mmean_root_storage_resp**
- real, dimension(:), pointer **mmean_sapa_storage_resp**
- real, dimension(:), pointer **mmean_sapb_storage_resp**
- real, dimension(:), pointer **mmean_plresp**
- real, dimension(:), pointer **mmean_leaf_energy**
- real, dimension(:), pointer **mmean_leaf_water**
- real, dimension(:), pointer **mmean_leaf_hcap**
- real, dimension(:), pointer **mmean_leaf_vpdef**
- real, dimension(:), pointer **mmean_leaf_temp**
- real, dimension(:), pointer **mmean_leaf_fliq**
- real, dimension(:), pointer **mmean_leaf_gsw**
- real, dimension(:), pointer **mmean_leaf_gbw**
- real, dimension(:), pointer **mmean_wood_energy**

- real, dimension(:), pointer **mmean_wood_water**
- real, dimension(:), pointer **mmean_wood_hcap**
- real, dimension(:), pointer **mmean_wood_temp**
- real, dimension(:), pointer **mmean_wood_fliq**
- real, dimension(:), pointer **mmean_wood_gbw**
- real, dimension(:), pointer **mmean_fs_open**
- real, dimension(:), pointer **mmean_fsw**
- real, dimension(:), pointer **mmean_fsn**
- real, dimension(:), pointer **mmean_a_open**
- real, dimension(:), pointer **mmean_a_closed**
- real, dimension(:), pointer **mmean_a_net**
- real, dimension(:), pointer **mmean_a_light**
- real, dimension(:), pointer **mmean_a_rubp**
- real, dimension(:), pointer **mmean_a_co2**
- real, dimension(:), pointer **mmean_psi_open**
- real, dimension(:), pointer **mmean_psi_closed**
- real, dimension(:), pointer **mmean_water_supply**
- real, dimension(:), pointer **mmean_light_level**
- real, dimension(:), pointer **mmean_light_level_beam**
- real, dimension(:), pointer **mmean_light_level_diff**
- real, dimension(:), pointer **mmean_par_level_beam**
- real, dimension(:), pointer **mmean_par_level_diffu**
- real, dimension(:), pointer **mmean_par_level_diffd**
- real, dimension(:), pointer **mmean_par_l**
- real, dimension(:), pointer **mmean_par_l_beam**
- real, dimension(:), pointer **mmean_par_l_diff**
- real, dimension(:), pointer **mmean_rshort_l**
- real, dimension(:), pointer **mmean_rlong_l**
- real, dimension(:), pointer **mmean_sensible_lc**
- real, dimension(:), pointer **mmean_vapor_lc**
- real, dimension(:), pointer **mmean_transp**
- real, dimension(:), pointer **mmean_intercepted_al**
- real, dimension(:), pointer **mmean_wshed_lg**
- real, dimension(:), pointer **mmean_rshort_w**
- real, dimension(:), pointer **mmean_rlong_w**
- real, dimension(:,:), pointer **mmean_rad_profile**
- real, dimension(:), pointer **mmean_sensible_wc**
- real, dimension(:), pointer **mmean_vapor_wc**
- real, dimension(:), pointer **mmean_intercepted_aw**
- real, dimension(:), pointer **mmean_wshed_wg**
- real, dimension(:), pointer **mmean_nppleaf**
- real, dimension(:), pointer **mmean_nppfroot**
- real, dimension(:), pointer **mmean_nppsapwood**
- real, dimension(:), pointer **mmean_nppcroot**
- real, dimension(:), pointer **mmean_nppseeds**
- real, dimension(:), pointer **mmean_nppwood**
- real, dimension(:), pointer **mmean_nppdaily**
- real, dimension(:), pointer **mmsqu_gpp**
- real, dimension(:), pointer **mmsqu_npp**
- real, dimension(:), pointer **mmsqu_plresp**

- real, dimension(:), pointer **mmsqu_sensible_lc**
- real, dimension(:), pointer **mmsqu_vapor_lc**
- real, dimension(:), pointer **mmsqu_transp**
- real, dimension(:), pointer **mmsqu_sensible_wc**
- real, dimension(:), pointer **mmsqu_vapor_wc**
- real, dimension(:, :), pointer **qmean_gpp**
- real, dimension(:, :), pointer **qmean_npp**
- real, dimension(:, :), pointer **qmean_leaf_resp**
- real, dimension(:, :), pointer **qmean_root_resp**
- real, dimension(:, :), pointer **qmean_leaf_growth_resp**
- real, dimension(:, :), pointer **qmean_root_growth_resp**
- real, dimension(:, :), pointer **qmean_sapa_growth_resp**
- real, dimension(:, :), pointer **qmean_sapb_growth_resp**
- real, dimension(:, :), pointer **qmean_leaf_storage_resp**
- real, dimension(:, :), pointer **qmean_root_storage_resp**
- real, dimension(:, :), pointer **qmean_sapa_storage_resp**
- real, dimension(:, :), pointer **qmean_sapb_storage_resp**
- real, dimension(:, :), pointer **qmean_plresp**
- real, dimension(:, :), pointer **qmean_leaf_energy**
- real, dimension(:, :), pointer **qmean_leaf_water**
- real, dimension(:, :), pointer **qmean_leaf_hcap**
- real, dimension(:, :), pointer **qmean_leaf_vpdef**
- real, dimension(:, :), pointer **qmean_leaf_temp**
- real, dimension(:, :), pointer **qmean_leaf_fliq**
- real, dimension(:, :), pointer **qmean_leaf_gsw**
- real, dimension(:, :), pointer **qmean_leaf_gbw**
- real, dimension(:, :), pointer **qmean_wood_energy**
- real, dimension(:, :), pointer **qmean_wood_water**
- real, dimension(:, :), pointer **qmean_wood_hcap**
- real, dimension(:, :), pointer **qmean_wood_temp**
- real, dimension(:, :), pointer **qmean_wood_fliq**
- real, dimension(:, :), pointer **qmean_wood_gbw**
- real, dimension(:, :), pointer **qmean_fs_open**
- real, dimension(:, :), pointer **qmean_fsw**
- real, dimension(:, :), pointer **qmean_fsn**
- real, dimension(:, :), pointer **qmean_a_open**
- real, dimension(:, :), pointer **qmean_a_closed**
- real, dimension(:, :), pointer **qmean_a_net**
- real, dimension(:, :), pointer **qmean_a_light**
- real, dimension(:, :), pointer **qmean_a_rubp**
- real, dimension(:, :), pointer **qmean_a_co2**
- real, dimension(:, :), pointer **qmean_psi_open**
- real, dimension(:, :), pointer **qmean_psi_closed**
- real, dimension(:, :), pointer **qmean_water_supply**
- real, dimension(:, :), pointer **qmean_light_level**
- real, dimension(:, :), pointer **qmean_light_level_beam**
- real, dimension(:, :), pointer **qmean_light_level_diff**
- real, dimension(:, :), pointer **qmean_par_level_beam**
- real, dimension(:, :), pointer **qmean_par_level_diffu**
- real, dimension(:, :), pointer **qmean_par_level_diffd**

- real, dimension(:,:), pointer **qmean_par_l**
- real, dimension(:,:), pointer **qmean_par_l_beam**
- real, dimension(:,:), pointer **qmean_par_l_diff**
- real, dimension(:,:), pointer **qmean_rshort_l**
- real, dimension(:,:), pointer **qmean_rlong_l**
- real, dimension(:,:), pointer **qmean_sensible_lc**
- real, dimension(:,:), pointer **qmean_vapor_lc**
- real, dimension(:,:), pointer **qmean_transp**
- real, dimension(:,:), pointer **qmean_intercepted_al**
- real, dimension(:,:), pointer **qmean_wshed_lg**
- real, dimension(:,:), pointer **qmean_rshort_w**
- real, dimension(:,:), pointer **qmean_rlong_w**
- real, dimension(:,:), pointer **qmean_rad_profile**
- real, dimension(:,:), pointer **qmean_sensible_wc**
- real, dimension(:,:), pointer **qmean_vapor_wc**
- real, dimension(:,:), pointer **qmean_intercepted_aw**
- real, dimension(:,:), pointer **qmean_wshed_wg**
- real, dimension(:,:), pointer **qmsqu_gpp**
- real, dimension(:,:), pointer **qmsqu_npp**
- real, dimension(:,:), pointer **qmsqu_plresp**
- real, dimension(:,:), pointer **qmsqu_sensible_lc**
- real, dimension(:,:), pointer **qmsqu_vapor_lc**
- real, dimension(:,:), pointer **qmsqu_transp**
- real, dimension(:,:), pointer **qmsqu_sensible_wc**
- real, dimension(:,:), pointer **qmsqu_vapor_wc**

The documentation for this struct was generated from the following file:

- memory/ed_state_vars.F90

4.23 ed_state_vars::polygontype Struct Reference

Public Attributes

- integer **nsites**
- integer **siglob_id**
- type(**sitetype**), dimension(:), pointer **site**
- integer, dimension(:), pointer **sipa_id**
- integer, dimension(:), pointer **sipa_n**
- integer, dimension(:), pointer **patch_count**
- integer, dimension(:), pointer **sitenum**
- type(**met_driv_state**), dimension(:), pointer **met**
- real, dimension(:), pointer **area**
- real, dimension(:), pointer **patch_area**
- real, dimension(:), pointer **elevation**
- real, dimension(:), pointer **slope**
- real, dimension(:), pointer **aspect**
- integer, dimension(:), pointer **lsl**
- integer, dimension(:), pointer **ncol_soil**
- integer, dimension(:,:), pointer **ntext_soil**
- real, dimension(:), pointer **TCI**
- real, dimension(:), pointer **pptweight**
- integer, dimension(:), pointer **hydro_next**
- integer, dimension(:), pointer **hydro_prev**
- real, dimension(:), pointer **moist_W**
- real, dimension(:), pointer **moist_f**
- real, dimension(:), pointer **moist_tau**
- real, dimension(:), pointer **moist_zi**
- real, dimension(:), pointer **baseflow**
- real, dimension(:), pointer **runoff**
- real, dimension(:), pointer **qrunoff**
- real, dimension(:), pointer **min_monthly_temp**
- integer, dimension(:), pointer **num_landuse_years**
- type(**lutime**), dimension(:,:), pointer **clutimes**
- real, dimension(:,:), pointer **mindbh_primary**
- real, dimension(:,:), pointer **probharv_primary**
- real, dimension(:,:), pointer **mindbh_secondary**
- real, dimension(:,:), pointer **probharv_secondary**
- integer, dimension(:), pointer **plantation**
- integer, dimension(:), pointer **agri_stocking_pft**
- real, dimension(:), pointer **agri_stocking_density**
- integer, dimension(:), pointer **plantation_stocking_pft**
- real, dimension(:), pointer **plantation_stocking_density**
- real, dimension(:), pointer **primary_harvest_target**
- real, dimension(:), pointer **secondary_harvest_target**
- real, dimension(:), pointer **primary_harvest_memory**
- real, dimension(:), pointer **secondary_harvest_memory**
- real, dimension(:), pointer **ignition_rate**
- real, dimension(:,:), pointer **lambda_fire**
- real, dimension(:,:), pointer **avg_monthly_pcp**

- type([prescribed_phen](#)), dimension(:), pointer **phen_pars**
- real, dimension(:,:), pointer **disturbance_memory**
- real, dimension(:,:), pointer **disturbance_rates**
- real, dimension(:,:), pointer **green_leaf_factor**
- real, dimension(:,:), pointer **leaf_aging_factor**
- real, dimension(:,:), pointer **basal_area**
- real, dimension(:,:), pointer **basal_area_growth**
- real, dimension(:,:), pointer **basal_area_mort**
- real, dimension(:,:), pointer **basal_area_cut**
- real, dimension(:,:), pointer **agb**
- real, dimension(:,:), pointer **agb_growth**
- real, dimension(:,:), pointer **agb_mort**
- real, dimension(:,:), pointer **agb_cut**
- real, dimension(:), pointer **cosaoi**
- real, dimension(:), pointer **daylight**
- logical, dimension(:), pointer **nighttime**
- real, dimension(:), pointer **rad_avg**
- real, dimension(:), pointer **fmean_atm_theiv**
- real, dimension(:), pointer **fmean_atm_theta**
- real, dimension(:), pointer **fmean_atm_temp**
- real, dimension(:), pointer **fmean_atm_vpdef**
- real, dimension(:), pointer **fmean_atm_shv**
- real, dimension(:), pointer **fmean_atm_rshort**
- real, dimension(:), pointer **fmean_atm_rshort_diff**
- real, dimension(:), pointer **fmean_atm_par**
- real, dimension(:), pointer **fmean_atm_par_diff**
- real, dimension(:), pointer **fmean_atm_rlong**
- real, dimension(:), pointer **fmean_atm_vels**
- real, dimension(:), pointer **fmean_atm_rhos**
- real, dimension(:), pointer **fmean_atm_prss**
- real, dimension(:), pointer **fmean_atm_co2**
- real, dimension(:), pointer **fmean_pcp**
- real, dimension(:), pointer **fmean_qpcp**
- real, dimension(:), pointer **fmean_dpcp**
- real, dimension(:), pointer **dmean_atm_theiv**
- real, dimension(:), pointer **dmean_atm_theta**
- real, dimension(:), pointer **dmean_atm_temp**
- real, dimension(:), pointer **dmean_atm_vpdef**
- real, dimension(:), pointer **dmean_atm_shv**
- real, dimension(:), pointer **dmean_atm_rshort**
- real, dimension(:), pointer **dmean_atm_rshort_diff**
- real, dimension(:), pointer **dmean_atm_par**
- real, dimension(:), pointer **dmean_atm_par_diff**
- real, dimension(:), pointer **dmean_atm_rlong**
- real, dimension(:), pointer **dmean_atm_vels**
- real, dimension(:), pointer **dmean_atm_rhos**
- real, dimension(:), pointer **dmean_atm_prss**
- real, dimension(:), pointer **dmean_atm_co2**
- real, dimension(:), pointer **dmean_pcp**
- real, dimension(:), pointer **dmean_qpcp**

- real, dimension(:), pointer **dmean_dpcpg**
- real, dimension(:), pointer **mmean_atm_theiv**
- real, dimension(:), pointer **mmean_atm_theta**
- real, dimension(:), pointer **mmean_atm_temp**
- real, dimension(:), pointer **mmean_atm_vpdef**
- real, dimension(:), pointer **mmean_atm_shv**
- real, dimension(:), pointer **mmean_atm_rshort**
- real, dimension(:), pointer **mmean_atm_rshort_diff**
- real, dimension(:), pointer **mmean_atm_par**
- real, dimension(:), pointer **mmean_atm_par_diff**
- real, dimension(:), pointer **mmean_atm_rlong**
- real, dimension(:), pointer **mmean_atm_vels**
- real, dimension(:), pointer **mmean_atm_rhos**
- real, dimension(:), pointer **mmean_atm_prss**
- real, dimension(:), pointer **mmean_atm_co2**
- real, dimension(:), pointer **mmean_pcp**
- real, dimension(:), pointer **mmean_qpcpg**
- real, dimension(:), pointer **mmean_dpcpg**
- real, dimension(:,), pointer **qmean_atm_theiv**
- real, dimension(:,), pointer **qmean_atm_theta**
- real, dimension(:,), pointer **qmean_atm_temp**
- real, dimension(:,), pointer **qmean_atm_vpdef**
- real, dimension(:,), pointer **qmean_atm_shv**
- real, dimension(:,), pointer **qmean_atm_rshort**
- real, dimension(:,), pointer **qmean_atm_rshort_diff**
- real, dimension(:,), pointer **qmean_atm_par**
- real, dimension(:,), pointer **qmean_atm_par_diff**
- real, dimension(:,), pointer **qmean_atm_rlong**
- real, dimension(:,), pointer **qmean_atm_vels**
- real, dimension(:,), pointer **qmean_atm_rhos**
- real, dimension(:,), pointer **qmean_atm_prss**
- real, dimension(:,), pointer **qmean_atm_co2**
- real, dimension(:,), pointer **qmean_pcp**
- real, dimension(:,), pointer **qmean_qpcpg**
- real, dimension(:,), pointer **qmean_dpcpg**

The documentation for this struct was generated from the following file:

- memory/ed_state_vars.F90

4.24 phenology_coms::prescribed_phen Struct Reference

Public Attributes

- integer **nyears**
- integer, dimension(:), pointer **years**
- real, dimension(:), pointer **flush_a**
- real, dimension(:), pointer **flush_b**
- real, dimension(:), pointer **color_a**
- real, dimension(:), pointer **color_b**

The documentation for this struct was generated from the following file:

- memory/phenology_coms.f90

4.25 canopy_radiation_coms::radsctype Struct Reference

Public Attributes

- integer, dimension(:), pointer **pft_array**
- real(kind=8), dimension(:), pointer **leaf_temp_array**
- real(kind=8), dimension(:), pointer **wood_temp_array**
- real(kind=8), dimension(:), pointer **lai_array**
- real(kind=8), dimension(:), pointer **wai_array**
- real(kind=8), dimension(:), pointer **CA_array**
- real(kind=8), dimension(:), pointer **htop_array**
- real(kind=8), dimension(:), pointer **hbot_array**
- real(kind=8), dimension(:), pointer **par_level_beam**
- real(kind=8), dimension(:), pointer **par_level_diffd**
- real(kind=8), dimension(:), pointer **par_level_diffu**
- real(kind=8), dimension(:), pointer **light_level_array**
- real(kind=8), dimension(:), pointer **light_beam_level_array**
- real(kind=8), dimension(:), pointer **light_diff_level_array**
- real, dimension(:), pointer **par_v_beam_array**
- real, dimension(:), pointer **rshort_v_beam_array**
- real, dimension(:), pointer **par_v_diffuse_array**
- real, dimension(:), pointer **rshort_v_diffuse_array**
- real, dimension(:), pointer **lw_v_array**
- real, dimension(:,:), pointer **radprof_array**

The documentation for this struct was generated from the following file:

- memory/canopy_radiation_coms.f90

4.26 pft_coms::recruittype Struct Reference

Public Attributes

- integer **pft**
- integer **krdepth**
- integer **phenology_status**
- real **leaf_temp**
- real **wood_temp**
- real **leaf_temp_pv**
- real **wood_temp_pv**
- real **leaf_vpdef**
- real **hite**
- real **dbh**
- real **bdead**
- real **bleaf**
- real **broot**
- real **bsapwooda**
- real **bsapwoodb**
- real **balive**
- real **paw_avg**
- real **elongf**
- real **bstorage**
- real **nplant**

The documentation for this struct was generated from the following file:

- `memory/pft_coms.f90`

4.27 rk4_coms::rk4auxtype Struct Reference

Public Attributes

- real(kind=8), dimension(:), pointer **psiplusz**
- real(kind=8), dimension(:), pointer **hydcond**
- real(kind=8), dimension(:), pointer **avail_h2o_lyr**
- real(kind=8), dimension(:), pointer **avail_h2o_int**
- real(kind=8), dimension(:,:), pointer **extracted_water**
- real(kind=8), dimension(:), pointer **th_cond_s**
- real(kind=8), dimension(:), pointer **th_cond_p**
- real(kind=8), dimension(:), pointer **h_flux_g**
- real(kind=8), dimension(:), pointer **h_flux_s**
- real(kind=8), dimension(:), pointer **w_flux_g**
- real(kind=8), dimension(:), pointer **qw_flux_g**
- logical, dimension(:), pointer **drysoil**
- logical, dimension(:), pointer **satsoil**
- logical **any_resolvable**
- real(kind=8) **wcapcan**
- real(kind=8) **hcapcan**
- real(kind=8) **ccapcan**
- real(kind=8) **wcapcani**
- real(kind=8) **hcapcani**
- real(kind=8) **ccapcani**
- real(kind=8) **rk4min_can_prss**
- real(kind=8) **rk4max_can_prss**
- real(kind=8) **rk4min_can_theta**
- real(kind=8) **rk4max_can_theta**
- real(kind=8) **rk4min_can_enthalpy**
- real(kind=8) **rk4max_can_enthalpy**
- real(kind=8), dimension(:), pointer **rk4min_soil_water**
- real(kind=8), dimension(:), pointer **rk4max_soil_water**

The documentation for this struct was generated from the following file:

- memory/rk4_coms.f90

4.28 rk4_coms::rk4patchtype Struct Reference

Public Attributes

- real(kind=8) **can_enthalpy**
- real(kind=8) **can_theta**
- real(kind=8) **can_temp**
- real(kind=8) **can_shv**
- real(kind=8) **can_ssh**
- real(kind=8) **can_rhv**
- real(kind=8) **can_co2**
- real(kind=8) **can_depth**
- real(kind=8) **can_rhos**
- real(kind=8) **can_prss**
- real(kind=8) **can_exner**
- real(kind=8) **can_cp**
- real(kind=8) **vels**
- real(kind=8) **atm_enthalpy**
- real(kind=8) **veg_height**
- real(kind=8) **veg_displace**
- real(kind=8) **veg_rough**
- real(kind=8) **opencan_frac**
- real(kind=8) **total_sfcw_depth**
- real(kind=8) **total_sfcw_mass**
- real(kind=8) **snowfac**
- real(kind=8) **ggbare**
- real(kind=8) **ggveg**
- real(kind=8) **ggnet**
- real(kind=8) **ggsoil**
- integer **flag_wflxgc**
- real(kind=8), dimension(:), pointer **soil_energy**
- real(kind=8), dimension(:), pointer **soil_mstpot**
- real(kind=8), dimension(:), pointer **soil_tempk**
- real(kind=8), dimension(:), pointer **soil_fracliq**
- real(kind=8), dimension(:), pointer **soil_water**
- integer **nlev_sfcwater**
- integer **flag_sfcwater**
- real(kind=8), dimension(:), pointer **sfcwater_depth**
- real(kind=8), dimension(:), pointer **sfcwater_mass**
- real(kind=8), dimension(:), pointer **sfcwater_energy**
- real(kind=8), dimension(:), pointer **sfcwater_tempk**
- real(kind=8), dimension(:), pointer **sfcwater_fracliq**
- real(kind=8) **virtual_water**
- real(kind=8) **virtual_energy**
- real(kind=8) **virtual_depth**
- real(kind=8) **virtual_tempk**
- real(kind=8) **virtual_fracliq**
- real(kind=8) **ground_shv**
- real(kind=8) **ground_ssh**
- real(kind=8) **ground_temp**

- real(kind=8) **ground_fliq**
- real(kind=8) **rough**
- real(kind=8) **ustar**
- real(kind=8) **cstar**
- real(kind=8) **tstar**
- real(kind=8) **qstar**
- real(kind=8) **estar**
- real(kind=8) **zeta**
- real(kind=8) **ribulk**
- real(kind=8) **upwp**
- real(kind=8) **qpwp**
- real(kind=8) **cpwp**
- real(kind=8) **tpwp**
- real(kind=8) **wpwp**
- real(kind=8) **rasveg**
- real(kind=8) **root_res_fac**
- real(kind=8) **cwd_rh**
- real(kind=8) **rh**
- real(kind=8), dimension(:), pointer **leaf_energy**
- real(kind=8), dimension(:), pointer **leaf_water**
- real(kind=8), dimension(:), pointer **leaf_temp**
- real(kind=8), dimension(:), pointer **leaf_fliq**
- real(kind=8), dimension(:), pointer **leaf_hcap**
- real(kind=8), dimension(:), pointer **leaf_reynolds**
- real(kind=8), dimension(:), pointer **leaf_grashof**
- real(kind=8), dimension(:), pointer **leaf_nussfree**
- real(kind=8), dimension(:), pointer **leaf_nussforc**
- real(kind=8), dimension(:), pointer **lint_shv**
- logical, dimension(:), pointer **leaf_resolvable**
- real(kind=8), dimension(:), pointer **leaf_gbh**
- real(kind=8), dimension(:), pointer **leaf_gbw**
- real(kind=8), dimension(:), pointer **gsw_open**
- real(kind=8), dimension(:), pointer **gsw_closed**
- real(kind=8), dimension(:), pointer **rshort_l**
- real(kind=8), dimension(:), pointer **rlong_l**
- real(kind=8), dimension(:), pointer **wood_energy**
- real(kind=8), dimension(:), pointer **wood_water**
- real(kind=8), dimension(:), pointer **wood_temp**
- real(kind=8), dimension(:), pointer **wood_fliq**
- real(kind=8), dimension(:), pointer **wood_hcap**
- real(kind=8), dimension(:), pointer **wood_reynolds**
- real(kind=8), dimension(:), pointer **wood_grashof**
- real(kind=8), dimension(:), pointer **wood_nussfree**
- real(kind=8), dimension(:), pointer **wood_nussforc**
- logical, dimension(:), pointer **wood_resolvable**
- real(kind=8), dimension(:), pointer **wood_gbh**
- real(kind=8), dimension(:), pointer **wood_gbw**
- real(kind=8), dimension(:), pointer **rshort_w**
- real(kind=8), dimension(:), pointer **rlong_w**
- real(kind=8), dimension(:), pointer **veg_energy**

- real(kind=8), dimension(:), pointer **veg_water**
- real(kind=8), dimension(:), pointer **veg_hcap**
- logical, dimension(:), pointer **veg_resolvable**
- real(kind=8), dimension(:), pointer **nplant**
- real(kind=8), dimension(:), pointer **veg_wind**
- real(kind=8), dimension(:), pointer **lai**
- real(kind=8), dimension(:), pointer **wai**
- real(kind=8), dimension(:), pointer **tai**
- real(kind=8), dimension(:), pointer **crown_area**
- real(kind=8), dimension(:), pointer **elongf**
- real(kind=8), dimension(:), pointer **psi_open**
- real(kind=8), dimension(:), pointer **psi_closed**
- real(kind=8), dimension(:), pointer **fs_open**
- real(kind=8), dimension(:), pointer **gpp**
- real(kind=8), dimension(:), pointer **leaf_resp**
- real(kind=8), dimension(:), pointer **root_resp**
- real(kind=8), dimension(:), pointer **leaf_storage_resp**
- real(kind=8), dimension(:), pointer **root_storage_resp**
- real(kind=8), dimension(:), pointer **sapa_storage_resp**
- real(kind=8), dimension(:), pointer **sapb_storage_resp**
- real(kind=8), dimension(:), pointer **leaf_growth_resp**
- real(kind=8), dimension(:), pointer **root_growth_resp**
- real(kind=8), dimension(:), pointer **sapa_growth_resp**
- real(kind=8), dimension(:), pointer **sapb_growth_resp**
- real(kind=8) **hflxgc**
- real(kind=8) **hflxsc**
- real(kind=8) **wflxgc**
- real(kind=8) **wflxsc**
- real(kind=8) **wflxac**
- real(kind=8) **qwflxgc**
- real(kind=8) **qwflxsc**
- real(kind=8), dimension(:), pointer **wflxtr**
- real(kind=8), dimension(:), pointer **wflxlc**
- real(kind=8), dimension(:), pointer **wflxwc**
- real(kind=8), dimension(:), pointer **hflx_lrsti**
- real(kind=8), dimension(:), pointer **hflx_wrsti**
- real(kind=8) **avg_rshort_gnd**
- real(kind=8) **avg_par_gnd**
- real(kind=8) **avg_rlong_gnd**
- real(kind=8) **avg_vapor_gc**
- real(kind=8) **avg_vapor_ac**
- real(kind=8) **avg_throughfall**
- real(kind=8) **avg_qthroughfall**
- real(kind=8) **avg_sensible_gc**
- real(kind=8) **avg_sensible_ac**
- real(kind=8) **avg_heatstor_veg**
- real(kind=8) **avg_carbon_ac**
- real(kind=8) **avg_carbon_st**
- real(kind=8) **avg_ustar**
- real(kind=8) **avg_tstar**

- real(kind=8) **avg_qstar**
- real(kind=8) **avg_cstar**
- real(kind=8), dimension(:), pointer **avg_smoist_gg**
- real(kind=8), dimension(:), pointer **avg_transloss**
- real(kind=8), dimension(:), pointer **avg_sensible_gg**
- real(kind=8) **avg_drainage**
- real(kind=8) **avg_qdrainage**
- real(kind=8), dimension(:), pointer **avg_sensible_lc**
- real(kind=8), dimension(:), pointer **avg_sensible_wc**
- real(kind=8), dimension(:), pointer **avg_vapor_lc**
- real(kind=8), dimension(:), pointer **avg_vapor_wc**
- real(kind=8), dimension(:), pointer **avg_transp**
- real(kind=8), dimension(:), pointer **avg_intercepted_al**
- real(kind=8), dimension(:), pointer **avg_intercepted_aw**
- real(kind=8), dimension(:), pointer **avg_wshed_lg**
- real(kind=8), dimension(:), pointer **avg_wshed_wg**
- real(kind=8) **water_deficit**
- real(kind=8) **flx_rshort_gnd**
- real(kind=8) **flx_par_gnd**
- real(kind=8) **flx_rlong_gnd**
- real(kind=8) **flx_vapor_lc**
- real(kind=8) **flx_vapor_wc**
- real(kind=8) **flx_vapor_gc**
- real(kind=8) **flx_vapor_ac**
- real(kind=8) **flx_transp**
- real(kind=8) **flx_wshed_vg**
- real(kind=8) **flx_qwshed_vg**
- real(kind=8) **flx_intercepted**
- real(kind=8) **flx_qintercepted**
- real(kind=8) **flx_throughfall**
- real(kind=8) **flx_qthroughfall**
- real(kind=8) **flx_sensible_lc**
- real(kind=8) **flx_sensible_wc**
- real(kind=8) **flx_sensible_gc**
- real(kind=8) **flx_sensible_ac**
- real(kind=8) **flx_heatstor_veg**
- real(kind=8) **flx_carbon_ac**
- real(kind=8) **flx_carbon_st**
- real(kind=8), dimension(:), pointer **flx_smoist_gg**
- real(kind=8), dimension(:), pointer **flx_transloss**
- real(kind=8), dimension(:), pointer **flx_sensible_gg**
- real(kind=8) **flx_drainage**
- real(kind=8) **flx_qdrainage**
- real(kind=8), dimension(:), pointer **cfx_hflxlc**
- real(kind=8), dimension(:), pointer **cfx_hflxwc**
- real(kind=8), dimension(:), pointer **cfx_qwflxlc**
- real(kind=8), dimension(:), pointer **cfx_qwflxwc**
- real(kind=8), dimension(:), pointer **cfx_qwshed**
- real(kind=8), dimension(:), pointer **cfx_qtransp**
- real(kind=8), dimension(:), pointer **cfx_qintercepted**

- real(kind=8) **co2budget_storage**
- real(kind=8) **co2budget_loss2atm**
- real(kind=8) **ebudget_storage**
- real(kind=8) **ebudget_netrad**
- real(kind=8) **ebudget_loss2atm**
- real(kind=8) **ebudget_loss2drainage**
- real(kind=8) **ebudget_loss2runoff**
- real(kind=8) **wbudget_storage**
- real(kind=8) **wbudget_loss2atm**
- real(kind=8) **wbudget_loss2drainage**
- real(kind=8) **wbudget_loss2runoff**

The documentation for this struct was generated from the following file:

- memory/rk4_coms.f90

4.29 rk4_coms::rk4sitetype Struct Reference

Public Attributes

- integer **lsl**
- integer, dimension(nzgmax) **ntext_soil**
- real(kind=8), dimension(n_pft) **green_leaf_factor**
- real(kind=8) **atm_rhos**
- real(kind=8) **atm_ustar**
- real(kind=8) **atm_tmp**
- real(kind=8) **atm_theta**
- real(kind=8) **atm_theiv**
- real(kind=8) **atm_vpdef**
- real(kind=8) **atm_shv**
- real(kind=8) **atm_rhv**
- real(kind=8) **atm_co2**
- real(kind=8) **zoff**
- real(kind=8) **atm_exner**
- real(kind=8) **pcpg**
- real(kind=8) **qpcpg**
- real(kind=8) **dpcpg**
- real(kind=8) **atm_prss**
- real(kind=8) **geoht**
- real(kind=8) **rshort**
- real(kind=8) **rlong**
- real(kind=8) **par_beam**
- real(kind=8) **par_diffuse**
- real(kind=8) **nir_beam**
- real(kind=8) **nir_diffuse**
- real(kind=8) **lon**
- real(kind=8) **lat**
- real(kind=8) **cosz**

The documentation for this struct was generated from the following file:

- memory/rk4_coms.f90

4.30 ed_misc_coms::simtime Struct Reference

Public Attributes

- integer **year**
- integer **month**
- integer **date**
- integer **hour**
- integer **min**
- integer **sec**
- real **time**
- integer **ifirst**

The documentation for this struct was generated from the following file:

- memory/ed_misc_coms.f90

4.31 ed_state_vars::sitetype Struct Reference

Public Attributes

- integer **npatches**
- integer, dimension(:), pointer **paco_id**
- integer, dimension(:), pointer **paco_n**
- integer **paglob_id**
- type(patchtype), dimension(:), pointer **patch**
- integer, dimension(:), pointer **cohort_count**
- character(len=str_len), dimension(:), pointer **pname**
- real, dimension(:), pointer **area**
- real, dimension(:), pointer **age**
- integer, dimension(:), pointer **dist_type**
- real, dimension(:), pointer **fast_soil_C**
- real, dimension(:), pointer **slow_soil_C**
- real, dimension(:), pointer **structural_soil_C**
- real, dimension(:), pointer **structural_soil_L**
- real, dimension(:), pointer **mineralized_soil_N**
- real, dimension(:), pointer **fast_soil_N**
- real, dimension(:), pointer **sum_dgd**
- real, dimension(:), pointer **sum_chd**
- real, dimension(:), pointer **can_theiv**
- real, dimension(:), pointer **can_vpdef**
- real, dimension(:), pointer **can_temp**
- real, dimension(:), pointer **can_temp_pv**
- real, dimension(:), pointer **can_shv**
- real, dimension(:), pointer **can_co2**
- real, dimension(:), pointer **can_rhos**
- real, dimension(:), pointer **can_prss**
- real, dimension(:), pointer **can_theta**
- real, dimension(:), pointer **can_depth**
- real, dimension(:), pointer **opencan_frac**
- real, dimension(:), pointer **ggbare**
- real, dimension(:), pointer **ggveg**
- real, dimension(:), pointer **ggnet**
- real, dimension(:), pointer **ggsoil**
- integer, dimension(:), pointer **nlev_sfcwater**
- real, dimension(:,:), pointer **sfcwater_mass**
- real, dimension(:,:), pointer **sfcwater_energy**
- real, dimension(:,:), pointer **sfcwater_depth**
- real, dimension(:,:), pointer **sfcwater_tempk**
- real, dimension(:,:), pointer **sfcwater_fracliq**
- real, dimension(:,:), pointer **rshort_s**
- real, dimension(:,:), pointer **rshort_s_beam**
- real, dimension(:,:), pointer **rshort_s_diffuse**
- real, dimension(:,:), pointer **par_s**
- real, dimension(:,:), pointer **par_s_beam**
- real, dimension(:,:), pointer **par_s_diffuse**
- real, dimension(:,:), pointer **soil_energy**

- real, dimension(:,:), pointer **soil_mstpot**
- real, dimension(:,:), pointer **soil_water**
- real, dimension(:,:), pointer **soil_tempk**
- real, dimension(:,:), pointer **soil_fracliq**
- real, dimension(:,:), pointer **rootdense**
- real, dimension(:), pointer **ground_shv**
- real, dimension(:), pointer **ground_ssh**
- real, dimension(:), pointer **ground_temp**
- real, dimension(:), pointer **ground_fliq**
- real, dimension(:), pointer **rough**
- real, dimension(:), pointer **par_l_max**
- real, dimension(:), pointer **par_l_beam_max**
- real, dimension(:), pointer **par_l_diffuse_max**
- real, dimension(:,:), pointer **A_o_max**
- real, dimension(:,:), pointer **A_c_max**
- real, dimension(:), pointer **avg_daily_temp**
- real, dimension(:), pointer **avg_monthly_gndwater**
- real, dimension(:), pointer **avg_monthly_waterdef**
- real, dimension(:), pointer **wbudget_loss2atm**
- real, dimension(:), pointer **wbudget_denseffect**
- real, dimension(:), pointer **wbudget_precipgain**
- real, dimension(:), pointer **wbudget_loss2runoff**
- real, dimension(:), pointer **wbudget_loss2drainage**
- real, dimension(:), pointer **wbudget_initialstorage**
- real, dimension(:), pointer **wbudget_residual**
- real, dimension(:), pointer **ebudget_loss2atm**
- real, dimension(:), pointer **ebudget_denseffect**
- real, dimension(:), pointer **ebudget_prsseffect**
- real, dimension(:), pointer **ebudget_loss2runoff**
- real, dimension(:), pointer **ebudget_loss2drainage**
- real, dimension(:), pointer **ebudget_netrad**
- real, dimension(:), pointer **ebudget_precipgain**
- real, dimension(:), pointer **ebudget_initialstorage**
- real, dimension(:), pointer **ebudget_residual**
- real, dimension(:), pointer **co2budget_initialstorage**
- real, dimension(:), pointer **co2budget_residual**
- real, dimension(:), pointer **co2budget_loss2atm**
- real, dimension(:), pointer **co2budget_denseffect**
- real, dimension(:), pointer **co2budget_gpp**
- real, dimension(:), pointer **co2budget_plresp**
- real, dimension(:), pointer **co2budget_rh**
- real, dimension(:), pointer **today_A_decomp**
- real, dimension(:), pointer **today_Af_decomp**
- real, dimension(:,:), pointer **repro**
- real, dimension(:), pointer **veg_rough**
- real, dimension(:), pointer **veg_height**
- real, dimension(:), pointer **veg_displace**
- real, dimension(:), pointer **fsc_in**
- real, dimension(:), pointer **ssc_in**
- real, dimension(:), pointer **ssl_in**

- real, dimension(:), pointer **fsn_in**
- real, dimension(:), pointer **total_plant_nitrogen_uptake**
- real, dimension(:), pointer **mineralized_N_input**
- real, dimension(:), pointer **mineralized_N_loss**
- real, dimension(:), pointer **rshort_g**
- real, dimension(:), pointer **rshort_g_beam**
- real, dimension(:), pointer **rshort_g_diffuse**
- real, dimension(:), pointer **par_g**
- real, dimension(:), pointer **par_g_beam**
- real, dimension(:), pointer **par_g_diffuse**
- real, dimension(:), pointer **par_b**
- real, dimension(:), pointer **par_b_beam**
- real, dimension(:), pointer **par_b_diffuse**
- real, dimension(:), pointer **nir_b**
- real, dimension(:), pointer **nir_b_beam**
- real, dimension(:), pointer **nir_b_diffuse**
- real, dimension(:), pointer **rlong_g**
- real, dimension(:), pointer **rlong_s**
- real, dimension(:), pointer **albedo**
- real, dimension(:), pointer **albedo_par**
- real, dimension(:), pointer **albedo_nir**
- real, dimension(:), pointer **rlong_albedo**
- real, dimension(:), pointer **rnet**
- real, dimension(:), pointer **rlongup**
- real, dimension(:), pointer **parup**
- real, dimension(:), pointer **nirup**
- real, dimension(:), pointer **rshortup**
- real, dimension(:), pointer **total_sfcw_depth**
- real, dimension(:), pointer **snowfac**
- real, dimension(:), pointer **A_decomp**
- real, dimension(:), pointer **f_decomp**
- real, dimension(:), pointer **rh**
- real, dimension(:), pointer **cwd_rh**
- real, dimension(:,:), pointer **cumlai_profile**
- real, dimension(:), pointer **plant_ag_biomass**
- real, dimension(:), pointer **htry**
- real, dimension(:), pointer **hprev**
- real, dimension(:), pointer **ustar**
- real, dimension(:), pointer **tstar**
- real, dimension(:), pointer **qstar**
- real, dimension(:), pointer **cstar**
- real, dimension(:), pointer **zeta**
- real, dimension(:), pointer **ribulk**
- real, dimension(:), pointer **upwp**
- real, dimension(:), pointer **tpwp**
- real, dimension(:), pointer **qpwp**
- real, dimension(:), pointer **cpwp**
- real, dimension(:), pointer **wpwp**
- real, dimension(:), pointer **watertable**
- real, dimension(:), pointer **moist_dz**

- real, dimension(:), pointer **ksat**
- real, dimension(:), pointer **soil_sat_energy**
- real, dimension(:), pointer **soil_sat_water**
- real, dimension(:), pointer **soil_sat_heat**
- real, dimension(:, :), pointer **runoff_A**
- real, dimension(:), pointer **runoff_rate**
- real, dimension(:), pointer **runoff**
- real, dimension(:), pointer **qrunoff**
- real, dimension(:), pointer **fmean_rh**
- real, dimension(:), pointer **fmean_cwd_rh**
- real, dimension(:), pointer **fmean_nep**
- real, dimension(:), pointer **fmean_rk4step**
- real, dimension(:), pointer **fmean_available_water**
- real, dimension(:), pointer **fmean_can_theiv**
- real, dimension(:), pointer **fmean_can_theta**
- real, dimension(:), pointer **fmean_can_vpdef**
- real, dimension(:), pointer **fmean_can_temp**
- real, dimension(:), pointer **fmean_can_shv**
- real, dimension(:), pointer **fmean_can_co2**
- real, dimension(:), pointer **fmean_can_rhos**
- real, dimension(:), pointer **fmean_can_prss**
- real, dimension(:), pointer **fmean_gnd_temp**
- real, dimension(:), pointer **fmean_gnd_shv**
- real, dimension(:), pointer **fmean_can_ggnd**
- real, dimension(:), pointer **fmean_sfcw_depth**
- real, dimension(:), pointer **fmean_sfcw_energy**
- real, dimension(:), pointer **fmean_sfcw_mass**
- real, dimension(:), pointer **fmean_sfcw_temp**
- real, dimension(:), pointer **fmean_sfcw_fliq**
- real, dimension(:, :), pointer **fmean_soil_energy**
- real, dimension(:, :), pointer **fmean_soil_mstpot**
- real, dimension(:, :), pointer **fmean_soil_water**
- real, dimension(:, :), pointer **fmean_soil_temp**
- real, dimension(:, :), pointer **fmean_soil_fliq**
- real, dimension(:), pointer **fmean_rshort_gnd**
- real, dimension(:), pointer **fmean_par_gnd**
- real, dimension(:), pointer **fmean_rlong_gnd**
- real, dimension(:), pointer **fmean_rlongup**
- real, dimension(:), pointer **fmean_parup**
- real, dimension(:), pointer **fmean_nirup**
- real, dimension(:), pointer **fmean_rshortup**
- real, dimension(:), pointer **fmean_rnet**
- real, dimension(:), pointer **fmean_albedo**
- real, dimension(:), pointer **fmean_albedo_par**
- real, dimension(:), pointer **fmean_albedo_nir**
- real, dimension(:), pointer **fmean_rlong_albedo**
- real, dimension(:), pointer **fmean_ustar**
- real, dimension(:), pointer **fmean_tstar**
- real, dimension(:), pointer **fmean_qstar**
- real, dimension(:), pointer **fmean_cstar**

- real, dimension(:), pointer **fmean_carbon_ac**
- real, dimension(:), pointer **fmean_carbon_st**
- real, dimension(:), pointer **fmean_vapor_gc**
- real, dimension(:), pointer **fmean_vapor_ac**
- real, dimension(:,:), pointer **fmean_smoist_gg**
- real, dimension(:), pointer **fmean_throughfall**
- real, dimension(:,:), pointer **fmean_transloss**
- real, dimension(:), pointer **fmean_runoff**
- real, dimension(:), pointer **fmean_drainage**
- real, dimension(:), pointer **fmean_sensible_gc**
- real, dimension(:), pointer **fmean_sensible_ac**
- real, dimension(:,:), pointer **fmean_sensible_gg**
- real, dimension(:), pointer **fmean_qthroughfall**
- real, dimension(:), pointer **fmean_qrunoff**
- real, dimension(:), pointer **fmean_qdrainage**
- real, dimension(:), pointer **dmean_A_decomp**
- real, dimension(:), pointer **dmean_Af_decomp**
- real, dimension(:), pointer **dmean_co2_residual**
- real, dimension(:), pointer **dmean_energy_residual**
- real, dimension(:), pointer **dmean_water_residual**
- real, dimension(:), pointer **mmean_fast_soil_c**
- real, dimension(:), pointer **mmean_slow_soil_c**
- real, dimension(:), pointer **mmean_struct_soil_c**
- real, dimension(:), pointer **mmean_struct_soil_l**
- real, dimension(:), pointer **mmean_fast_soil_n**
- real, dimension(:), pointer **mmean_mineral_soil_n**
- real, dimension(:), pointer **dmean_rh**
- real, dimension(:), pointer **dmean_cwd_rh**
- real, dimension(:), pointer **dmean_nep**
- real, dimension(:), pointer **dmean_rk4step**
- real, dimension(:), pointer **dmean_available_water**
- real, dimension(:), pointer **dmean_can_theiv**
- real, dimension(:), pointer **dmean_can_theta**
- real, dimension(:), pointer **dmean_can_vpdef**
- real, dimension(:), pointer **dmean_can_temp**
- real, dimension(:), pointer **dmean_can_shv**
- real, dimension(:), pointer **dmean_can_co2**
- real, dimension(:), pointer **dmean_can_rhos**
- real, dimension(:), pointer **dmean_can_prss**
- real, dimension(:), pointer **dmean_gnd_temp**
- real, dimension(:), pointer **dmean_gnd_shv**
- real, dimension(:), pointer **dmean_can_ggnd**
- real, dimension(:), pointer **dmean_sfcw_depth**
- real, dimension(:), pointer **dmean_sfcw_energy**
- real, dimension(:), pointer **dmean_sfcw_mass**
- real, dimension(:), pointer **dmean_sfcw_temp**
- real, dimension(:), pointer **dmean_sfcw_fliq**
- real, dimension(:,:), pointer **dmean_soil_energy**
- real, dimension(:,:), pointer **dmean_soil_mstpot**
- real, dimension(:,:), pointer **dmean_soil_water**

- real, dimension(:,:), pointer **dmean_soil_temp**
- real, dimension(:,:), pointer **dmean_soil_fliq**
- real, dimension(:), pointer **dmean_rshort_gnd**
- real, dimension(:), pointer **dmean_par_gnd**
- real, dimension(:), pointer **dmean_rlong_gnd**
- real, dimension(:), pointer **dmean_rlongup**
- real, dimension(:), pointer **dmean_parup**
- real, dimension(:), pointer **dmean_nirup**
- real, dimension(:), pointer **dmean_rshortup**
- real, dimension(:), pointer **dmean_rnet**
- real, dimension(:), pointer **dmean_albedo**
- real, dimension(:), pointer **dmean_albedo_par**
- real, dimension(:), pointer **dmean_albedo_nir**
- real, dimension(:), pointer **dmean_rlong_albedo**
- real, dimension(:), pointer **dmean_ustar**
- real, dimension(:), pointer **dmean_tstar**
- real, dimension(:), pointer **dmean_qstar**
- real, dimension(:), pointer **dmean_cstar**
- real, dimension(:), pointer **dmean_carbon_ac**
- real, dimension(:), pointer **dmean_carbon_st**
- real, dimension(:), pointer **dmean_vapor_gc**
- real, dimension(:), pointer **dmean_vapor_ac**
- real, dimension(:,:), pointer **dmean_smoist_gg**
- real, dimension(:), pointer **dmean_throughfall**
- real, dimension(:,:), pointer **dmean_transloss**
- real, dimension(:), pointer **dmean_runoff**
- real, dimension(:), pointer **dmean_drainage**
- real, dimension(:), pointer **dmean_sensible_gc**
- real, dimension(:), pointer **dmean_sensible_ac**
- real, dimension(:,:), pointer **dmean_sensible_gg**
- real, dimension(:), pointer **dmean_qthroughfall**
- real, dimension(:), pointer **dmean_qrunoff**
- real, dimension(:), pointer **dmean_qdrainage**
- real, dimension(:), pointer **mmean_rh**
- real, dimension(:), pointer **mmean_cwd_rh**
- real, dimension(:), pointer **mmean_nep**
- real, dimension(:), pointer **mmean_rk4step**
- real, dimension(:), pointer **mmean_available_water**
- real, dimension(:), pointer **mmean_can_theiv**
- real, dimension(:), pointer **mmean_can_theta**
- real, dimension(:), pointer **mmean_can_vpdef**
- real, dimension(:), pointer **mmean_can_temp**
- real, dimension(:), pointer **mmean_can_shv**
- real, dimension(:), pointer **mmean_can_co2**
- real, dimension(:), pointer **mmean_can_rhos**
- real, dimension(:), pointer **mmean_can_prss**
- real, dimension(:), pointer **mmean_gnd_temp**
- real, dimension(:), pointer **mmean_gnd_shv**
- real, dimension(:), pointer **mmean_can_ggnd**
- real, dimension(:), pointer **mmean_sfcw_depth**

- real, dimension(:), pointer **mmean_sfcw_energy**
- real, dimension(:), pointer **mmean_sfcw_mass**
- real, dimension(:), pointer **mmean_sfcw_temp**
- real, dimension(:), pointer **mmean_sfcw_fliq**
- real, dimension(:, :), pointer **mmean_soil_energy**
- real, dimension(:, :), pointer **mmean_soil_mstpot**
- real, dimension(:, :), pointer **mmean_soil_water**
- real, dimension(:, :), pointer **mmean_soil_temp**
- real, dimension(:, :), pointer **mmean_soil_fliq**
- real, dimension(:), pointer **mmean_rshort_gnd**
- real, dimension(:), pointer **mmean_par_gnd**
- real, dimension(:), pointer **mmean_rlong_gnd**
- real, dimension(:), pointer **mmean_rlongup**
- real, dimension(:), pointer **mmean_parup**
- real, dimension(:), pointer **mmean_nirup**
- real, dimension(:), pointer **mmean_rshortup**
- real, dimension(:), pointer **mmean_rnet**
- real, dimension(:), pointer **mmean_albedo**
- real, dimension(:), pointer **mmean_albedo_par**
- real, dimension(:), pointer **mmean_albedo_nir**
- real, dimension(:), pointer **mmean_rlong_albedo**
- real, dimension(:), pointer **mmean_ustar**
- real, dimension(:), pointer **mmean_tstar**
- real, dimension(:), pointer **mmean_qstar**
- real, dimension(:), pointer **mmean_cstar**
- real, dimension(:), pointer **mmean_carbon_ac**
- real, dimension(:), pointer **mmean_carbon_st**
- real, dimension(:), pointer **mmean_vapor_gc**
- real, dimension(:), pointer **mmean_vapor_ac**
- real, dimension(:, :), pointer **mmean_smoist_gg**
- real, dimension(:), pointer **mmean_throughfall**
- real, dimension(:, :), pointer **mmean_transloss**
- real, dimension(:), pointer **mmean_runoff**
- real, dimension(:), pointer **mmean_drainage**
- real, dimension(:), pointer **mmean_sensible_gc**
- real, dimension(:), pointer **mmean_sensible_ac**
- real, dimension(:, :), pointer **mmean_sensible_gg**
- real, dimension(:), pointer **mmean_qthroughfall**
- real, dimension(:), pointer **mmean_qrunoff**
- real, dimension(:), pointer **mmean_qdrainage**
- real, dimension(:), pointer **mmean_A_decomp**
- real, dimension(:), pointer **mmean_Af_decomp**
- real, dimension(:), pointer **mmean_co2_residual**
- real, dimension(:), pointer **mmean_energy_residual**
- real, dimension(:), pointer **mmean_water_residual**
- real, dimension(:), pointer **mmsqu_rh**
- real, dimension(:), pointer **mmsqu_cwd_rh**
- real, dimension(:), pointer **mmsqu_nep**
- real, dimension(:), pointer **mmsqu_rlongup**
- real, dimension(:), pointer **mmsqu_parup**

- real, dimension(:), pointer **mmsqu_nirup**
- real, dimension(:), pointer **mmsqu_rshortup**
- real, dimension(:), pointer **mmsqu_rnet**
- real, dimension(:), pointer **mmsqu_albedo**
- real, dimension(:), pointer **mmsqu_ustar**
- real, dimension(:), pointer **mmsqu_carbon_ac**
- real, dimension(:), pointer **mmsqu_carbon_st**
- real, dimension(:), pointer **mmsqu_vapor_gc**
- real, dimension(:), pointer **mmsqu_vapor_ac**
- real, dimension(:), pointer **mmsqu_transp**
- real, dimension(:), pointer **mmsqu_sensible_gc**
- real, dimension(:), pointer **mmsqu_sensible_ac**
- real, dimension(:,:), pointer **qmean_rh**
- real, dimension(:,:), pointer **qmean_cwd_rh**
- real, dimension(:,:), pointer **qmean_nep**
- real, dimension(:,:), pointer **qmean_rk4step**
- real, dimension(:,:), pointer **qmean_available_water**
- real, dimension(:,:), pointer **qmean_can_theiv**
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- real, dimension(:,:), pointer **qmean_can_rhos**
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- real, dimension(:,:), pointer **qmean_can_ggnd**
- real, dimension(:,:), pointer **qmean_sfcw_depth**
- real, dimension(:,:), pointer **qmean_sfcw_energy**
- real, dimension(:,:), pointer **qmean_sfcw_mass**
- real, dimension(:,:), pointer **qmean_sfcw_temp**
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- real, dimension(:,:,:), pointer **qmean_soil_mstpot**
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- real, dimension(:,:), pointer **qmean_rshort_gnd**
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- real, dimension(:,:), pointer **qmean_rlong_gnd**
- real, dimension(:,:), pointer **qmean_rlongup**
- real, dimension(:,:), pointer **qmean_parup**
- real, dimension(:,:), pointer **qmean_nirup**
- real, dimension(:,:), pointer **qmean_rshortup**
- real, dimension(:,:), pointer **qmean_rnet**
- real, dimension(:,:), pointer **qmean_albedo**
- real, dimension(:,:), pointer **qmean_albedo_par**
- real, dimension(:,:), pointer **qmean_albedo_nir**
- real, dimension(:,:), pointer **qmean_rlong_albedo**

- real, dimension(:,:), pointer **qmean_ustar**
- real, dimension(:,:), pointer **qmean_tstar**
- real, dimension(:,:), pointer **qmean_qstar**
- real, dimension(:,:), pointer **qmean_cstar**
- real, dimension(:,:), pointer **qmean_carbon_ac**
- real, dimension(:,:), pointer **qmean_carbon_st**
- real, dimension(:,:), pointer **qmean_vapor_gc**
- real, dimension(:,:), pointer **qmean_vapor_ac**
- real, dimension(:,:), pointer **qmean_smoist_gg**
- real, dimension(:,:), pointer **qmean_throughfall**
- real, dimension(:,:), pointer **qmean_transloss**
- real, dimension(:,:), pointer **qmean_runoff**
- real, dimension(:,:), pointer **qmean_drainage**
- real, dimension(:,:), pointer **qmean_sensible_gc**
- real, dimension(:,:), pointer **qmean_sensible_ac**
- real, dimension(:,:), pointer **qmean_sensible_gg**
- real, dimension(:,:), pointer **qmean_qthroughfall**
- real, dimension(:,:), pointer **qmean_qrunoff**
- real, dimension(:,:), pointer **qmean_qdrainage**
- real, dimension(:,:), pointer **qmsqu_rh**
- real, dimension(:,:), pointer **qmsqu_cwd_rh**
- real, dimension(:,:), pointer **qmsqu_nep**
- real, dimension(:,:), pointer **qmsqu_rlongup**
- real, dimension(:,:), pointer **qmsqu_parup**
- real, dimension(:,:), pointer **qmsqu_nirup**
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- real, dimension(:,:), pointer **qmsqu_vapor_ac**
- real, dimension(:,:), pointer **qmsqu_transp**
- real, dimension(:,:), pointer **qmsqu_sensible_gc**
- real, dimension(:,:), pointer **qmsqu_sensible_ac**

The documentation for this struct was generated from the following file:

- memory/ed_state_vars.F90

4.32 soil_coms::soil_class Struct Reference

Public Attributes

- real(kind=4) **slpots**
- real(kind=4) **slmsts**
- real(kind=4) **slbs**
- real(kind=4) **slcpd**
- real(kind=4) **soilcp**
- real(kind=4) **soilwp**
- real(kind=4) **slcons**
- real(kind=4) **slcons0**
- real(kind=4) **thcond0**
- real(kind=4) **thcond1**
- real(kind=4) **thcond2**
- real(kind=4) **thcond3**
- real(kind=4) **sflcap**
- real(kind=4) **xsand**
- real(kind=4) **xclay**
- real(kind=4) **xsilt**
- real(kind=4) **xrobulk**
- real(kind=4) **slden**
- real(kind=4) **soilld**
- real(kind=4) **soilfr**
- real(kind=4) **slpotwp**
- real(kind=4) **slpotfc**
- real(kind=4) **slpotld**
- real(kind=4) **slpotfr**

The documentation for this struct was generated from the following file:

- memory/soil_coms.F90

4.33 soil_coms::soil_class8 Struct Reference

Public Attributes

- real(kind=8) **slpots**
- real(kind=8) **slmsts**
- real(kind=8) **slbs**
- real(kind=8) **slcpd**
- real(kind=8) **soilcp**
- real(kind=8) **soilwp**
- real(kind=8) **slcons**
- real(kind=8) **slcons0**
- real(kind=8) **thcond0**
- real(kind=8) **thcond1**
- real(kind=8) **thcond2**
- real(kind=8) **thcond3**
- real(kind=8) **sflcap**
- real(kind=8) **xsand**
- real(kind=8) **xclay**
- real(kind=8) **xsilt**
- real(kind=8) **xrobulk**
- real(kind=8) **slden**
- real(kind=8) **soilld**
- real(kind=8) **soilfr**
- real(kind=8) **slpotwp**
- real(kind=8) **slpotfc**
- real(kind=8) **slpotld**
- real(kind=8) **slpotfr**

The documentation for this struct was generated from the following file:

- memory/soil_coms.F90

4.34 soil_coms::soilcol_class Struct Reference

Public Attributes

- real(kind=4) **alb_vis_dry**
- real(kind=4) **alb_nir_dry**
- real(kind=4) **alb_vis_wet**
- real(kind=4) **alb_nir_wet**
- real(kind=4) **emiss_tir**

The documentation for this struct was generated from the following file:

- memory/soil_coms.F90

4.35 c34constants::solution_vars Struct Reference

Public Attributes

- real(kind=8) **lsfc_shv**
- real(kind=8) **lsfc_co2**
- real(kind=8) **lint_co2**
- real(kind=8) **co2_demand**
- real(kind=8) **stom_cond_h2o**
- real(kind=8) **stom_cond_co2**

The documentation for this struct was generated from the following file:

- memory/c34constants.f90

4.36 ed_var_tables::var_table Struct Reference

Public Attributes

- integer **idim_type**
- integer **nptrs**
- integer **ihist**
- integer **ianal**
- integer **imean**
- integer **ilite**
- integer **impti**
- integer **impt1**
- integer **impt2**
- integer **impt3**
- integer **irecycle**
- integer **iyear**
- integer **iopti**
- integer **imont**
- integer **idcyc**
- integer **idail**
- integer **var_len_global**
- character(len=64) **name**
- character(len=2) **dtype**
- character(len=64) **lname**
- character(len=16) **units**
- character(len=64) **dimlab**
- logical **vector_allocated**
- type([var_table_vector](#)), dimension(:), pointer **vt_vector**

The documentation for this struct was generated from the following file:

- `memory/ed_var_tables.f90`

4.37 ed_var_tables::var_table_vector Struct Reference

Public Attributes

- real, dimension(:), pointer **var_rp**
- integer, dimension(:), pointer **var_ip**
- character(len=str_len), dimension(:), pointer **var_cp**
- real(kind=8), dimension(:), pointer **var_dp**
- real, pointer **sca_rp**
- integer, pointer **sca_ip**
- character(len=str_len), pointer **sca_cp**
- real(kind=8), pointer **sca_dp**
- integer **globid**
- integer **varlen**

The documentation for this struct was generated from the following file:

- memory/ed_var_tables.f90

4.38 soil_coms::veg_class Struct Reference

Public Attributes

- real **albedv**
- real **emisv**
- real **vglai**
- real **vgdlai**
- real **vgfrac**
- real **vgdfrac**
- real **vegzo**
- real **vgdisp**
- real **rootdep**

The documentation for this struct was generated from the following file:

- memory/soil_coms.F90

4.39 ed_work_vars::work_vars Struct Reference

Public Attributes

- real, dimension(:,:), pointer **glon**
- real, dimension(:,:), pointer **glat**
- real, dimension(:,:), pointer **work**
- logical, dimension(:,:), pointer **land**
- real, dimension(:,:), pointer **landfrac**
- real, dimension(:,:), pointer **soilfrac**
- integer, dimension(:,:), pointer **ntext**
- integer, dimension(:,:), pointer **nscol**
- integer, dimension(:,:), pointer **xatm**
- integer, dimension(:,:), pointer **yatm**

The documentation for this struct was generated from the following file:

- memory/ed_work_vars.f90

4.40 ed_work_vars::work_vecs Struct Reference

Public Attributes

- real, dimension(:), pointer **glon**
- real, dimension(:), pointer **glat**
- real, dimension(:), pointer **work**
- real, dimension(:), pointer **landfrac**
- real, dimension(:,:), pointer **soilfrac**
- integer, dimension(:,:), pointer **ntext**
- integer, dimension(:), pointer **nscol**
- integer, dimension(:), pointer **xid**
- integer, dimension(:), pointer **yid**

The documentation for this struct was generated from the following file:

- memory/ed_work_vars.f90

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