

InflowWind

Revision: 18 (last commit)

Generated by Doxygen 1.8.1.2

Wed Dec 19 2012 13:31:53

Contents

1	Data Type Index	1
1.1	Data Types List	1
2	File Index	2
2.1	File List	2
3	Data Type Documentation	2
3.1	ctwind::ct_backgr Type Reference	2
3.1.1	Detailed Description	2
3.1.2	Member Data Documentation	2
3.2	ctwind Module Reference	3
3.2.1	Detailed Description	4
3.2.2	Member Function/Subroutine Documentation	4
3.2.3	Member Data Documentation	8
3.3	ctwind::ctwindfiles Type Reference	10
3.3.1	Detailed Description	11
3.3.2	Member Data Documentation	11
3.4	fdwind Module Reference	11
3.4.1	Detailed Description	13
3.4.2	Member Function/Subroutine Documentation	13
3.4.3	Member Data Documentation	17
3.5	ffwind::ff_getvalue Interface Reference	21
3.5.1	Detailed Description	21
3.5.2	Member Function/Subroutine Documentation	21
3.6	ffwind Module Reference	22
3.6.1	Detailed Description	23
3.6.2	Member Function/Subroutine Documentation	23
3.6.3	Member Data Documentation	28
3.7	hawcwind Module Reference	29
3.7.1	Detailed Description	30
3.7.2	Member Function/Subroutine Documentation	30
3.7.3	Member Data Documentation	32
3.8	hhwind::hh_info Type Reference	33
3.8.1	Detailed Description	33
3.8.2	Member Data Documentation	33
3.9	hhwind Module Reference	33

3.9.1	Detailed Description	34
3.9.2	Member Function/Subroutine Documentation	34
3.9.3	Member Data Documentation	36
3.10	sharedinflowdefs::ifw_constraintstatetype Type Reference	37
3.10.1	Detailed Description	37
3.10.2	Member Data Documentation	37
3.11	sharedinflowdefs::ifw_continuousstatetype Type Reference	37
3.11.1	Detailed Description	37
3.11.2	Member Data Documentation	37
3.12	sharedinflowdefs::ifw_discretestatetype Type Reference	38
3.12.1	Detailed Description	38
3.12.2	Member Data Documentation	38
3.13	sharedinflowdefs::ifw_initinputtype Type Reference	38
3.13.1	Detailed Description	38
3.13.2	Member Data Documentation	38
3.14	sharedinflowdefs::ifw_inputtype Type Reference	39
3.14.1	Detailed Description	39
3.14.2	Member Data Documentation	39
3.15	sharedinflowdefs::ifw_otherstatetype Type Reference	39
3.15.1	Detailed Description	39
3.15.2	Member Data Documentation	39
3.16	sharedinflowdefs::ifw_outputtype Type Reference	40
3.16.1	Detailed Description	40
3.16.2	Member Data Documentation	40
3.17	sharedinflowdefs::ifw_parametertype Type Reference	40
3.17.1	Detailed Description	40
3.17.2	Member Data Documentation	40
3.18	sharedinflowdefs::inflintrpout Type Reference	41
3.18.1	Detailed Description	41
3.18.2	Member Data Documentation	41
3.19	inflowwind Module Reference	41
3.19.1	Detailed Description	42
3.19.2	Member Function/Subroutine Documentation	42
3.19.3	Member Data Documentation	45
3.20	inflowwind_subs Module Reference	46
3.20.1	Detailed Description	46
3.20.2	Member Function/Subroutine Documentation	46

3.21	sharedinflowdefs Module Reference	47
3.21.1	Detailed Description	47
3.22	userwind Module Reference	47
3.22.1	Detailed Description	48
3.22.2	Member Function/Subroutine Documentation	48
3.22.3	Member Data Documentation	49
3.23	windfile_types Module Reference	49
3.23.1	Detailed Description	49
3.23.2	Member Data Documentation	49
4	File Documentation	50
4.1	tempassembled.f90 File Reference	50
4.1.1	Function/Subroutine Documentation	51

1 Data Type Index

1.1 Data Types List

Here are the data types with brief descriptions:

ctwind::ct_backgr	2
ctwind	3
ctwind::ctwindfiles	10
fdwind	11
ffwind::ff_getvalue	21
ffwind	22
hawcwind	29
hhwind::hh_info	33
hhwind	33
sharedinflowdefs::ifw_constraintstatetype	37
sharedinflowdefs::ifw_continuousstatetype	37
sharedinflowdefs::ifw_discretestatetype	38
sharedinflowdefs::ifw_initinputtype	38
sharedinflowdefs::ifw_inputtype	39
sharedinflowdefs::ifw_otherstatetype	39

sharedinflowdefs::ifw_outputtype	40
sharedinflowdefs::ifw_parametertype	40
sharedinflowdefs::inflintrpout	41
inflowwind	41
inflowwind_subs	46
sharedinflowdefs	47
userwind	47
windfile_types	49

2 File Index

2.1 File List

Here is a list of all files with brief descriptions:

tempassembled.f90	50
-----------------------------------	----

3 Data Type Documentation

3.1 ctwind::ct_backgr Type Reference

Public Attributes

- character(1024) [windfile](#)
- integer [windfiletype](#)
- logical [coherentstr](#)

3.1.1 Detailed Description

Definition at line 419 of file tempassembled.f90.

3.1.2 Member Data Documentation

3.1.2.1 logical ctwind::ct_backgr::coherentstr

Definition at line 422 of file tempassembled.f90.

3.1.2.2 character(1024) ctwind::ct_backgr::windfile

Definition at line 420 of file tempassembled.f90.

3.1.2.3 integer ctwind::ct_backgr::windfiletype

Definition at line 421 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.2 ctwind Module Reference

Data Types

- type [ct_backgr](#)
- type [ctwindfiles](#)

Public Member Functions

- subroutine, public [ct_init](#) (UnWind, WindFile, BackGrndValues, ErrStat)
- subroutine, public [ct_setrefval](#) (Height, HWidth, ErrStat)
- type(inflintrpout) function, public [ct_getwindspeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [ct_terminate](#) (ErrStat)

Private Member Functions

- subroutine [readctdata](#) (UnWind, CTFileNo, Itime, ErrStat)
- subroutine [loadctdata](#) (UnWind, FileName, ITime, IComp, Vel, ErrStat)
- subroutine [readctp](#) (UnWind, FileName, CTPscaling, ErrStat)
- subroutine [readctts](#) (UnWind, FileName, CT_SC_ext, ErrStat)
- subroutine [readctscale](#) (UnWind, FileName, ErrStat)

Private Attributes

- integer, parameter [numcomps](#) = 3
- real(reki) [delyctgrid](#)
- real(reki) [delzctgrid](#)
- real(reki) [ctdistsc](#)
- real(reki), dimension([numcomps](#)) [ctoffset](#)
- real(reki), dimension([numcomps](#)) [ctscale](#)
- real(reki), dimension(:, :, :), allocatable [ctvelu](#)
- real(reki), dimension(:, :, :), allocatable [ctvelv](#)
- real(reki), dimension(:, :, :), allocatable [ctvelw](#)
- real(reki) [ctly](#)
- real(reki) [ctlz](#)
- real(reki) [ctscalelevel](#)
- real(reki), dimension(:), allocatable [tdata](#)
- real(reki) [ct_zref](#)

- real(reki) [ctyhwid](#)
- real(reki) [ctymax](#)
- real(reki) [ctyt](#)
- real(reki) [ctzmax](#)
- real(reki) [invmtws](#)
- integer [ct_df_y](#)
- integer [ct_df_z](#)
- integer, dimension(2) [ctvel_files](#)
- integer [indct_hi](#)
- integer [indct_lo](#)
- integer [numctt](#)
- integer [numcty](#)
- integer [numctyd](#)
- integer [numctyd1](#)
- integer [numctz](#)
- integer [numctzd](#)
- integer [numctzd1](#)
- integer, save [timeindx](#) = 0
- integer, dimension(:), allocatable [timestpct](#)
- integer [ctwindunit](#)
- logical [ctvertshft](#)
- character(3) [ctext](#)
- character(1024) [ctspath](#)

3.2.1 Detailed Description

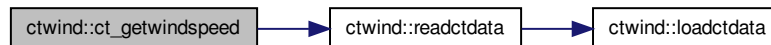
Definition at line 341 of file `tempassembled.f90`.

3.2.2 Member Function/Subroutine Documentation

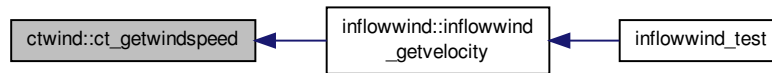
3.2.2.1 `type(inflintrpout) function, public ctwind::ct_getwindspeed (real(reki), intent(in) Time, real(reki), dimension(3), intent(in) InputPosition, integer, intent(out) ErrStat)`

Definition at line 638 of file `tempassembled.f90`.

Here is the call graph for this function:



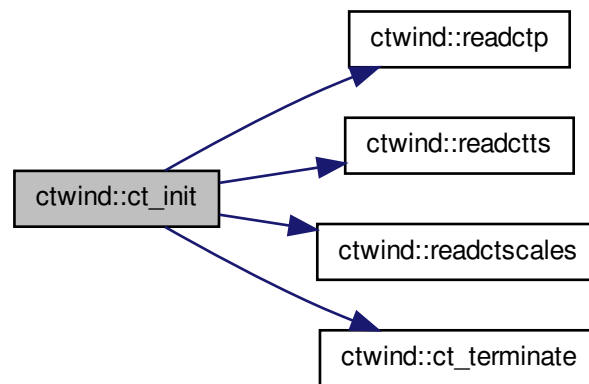
Here is the caller graph for this function:



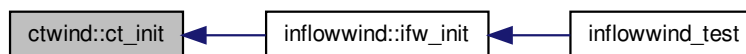
3.2.2.2 subroutine, public `ctwind::ct_init` (integer, intent(in) *UnWind*, character(*), intent(in) *WindFile*, type(`ct_backgr`), intent(out) *BackGrndValues*, integer, intent(out) *ErrStat*)

Definition at line 433 of file `tempassembled.f90`.

Here is the call graph for this function:



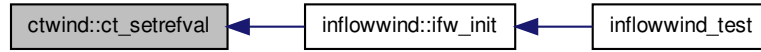
Here is the caller graph for this function:



3.2.2.3 subroutine, public `ctwind::ct_setrefval` (real(*reki*), intent(in) *Height*, real(*reki*), intent(in), optional *HWidth*, integer, intent(out) *ErrStat*)

Definition at line 584 of file `tempassembled.f90`.

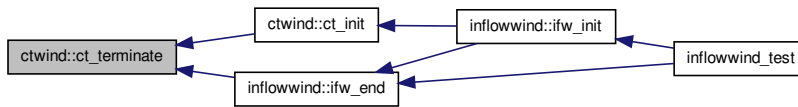
Here is the caller graph for this function:



3.2.2.4 subroutine, public ctwind::ct_terminate (integer, intent(out) *ErrStat*)

Definition at line 1318 of file tempassembled.f90.

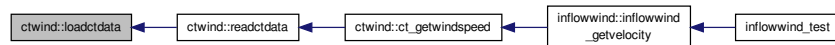
Here is the caller graph for this function:



3.2.2.5 subroutine ctwind::loadctdata (integer, intent(in) *UnWind*, character(*), intent(in) *FileName*, integer, intent(in) *ITime*, integer, intent(in) *IComp*, real(reki), dimension (numctyd,numctzd,2), intent(inout) *Vel*, integer, intent(out) *ErrStat*) [private]

Definition at line 968 of file tempassembled.f90.

Here is the caller graph for this function:



3.2.2.6 subroutine ctwind::readctdata (integer, intent(in) *UnWind*, integer, intent(in) *CTFileNo*, integer, intent(in) *ITime*, integer, intent(out) *ErrStat*) [private]

Definition at line 915 of file tempassembled.f90.

Here is the call graph for this function:



Here is the caller graph for this function:



3.2.2.7 subroutine `ctwind::readctp` (integer, intent(in) *UnWind*, character(*), intent(in) *FileName*, type(ctwindfiles), intent(out) *CTPscaling*, integer, intent(out) *ErrStat*) [private]

Definition at line 1036 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.2.2.8 subroutine `ctwind::readctscals` (integer, intent(in) *UnWind*, character(*), intent(in) *FileName*, integer, intent(out) *ErrStat*) [private]

Definition at line 1258 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.2.2.9 subroutine `ctwind::readctts` (integer, intent(in) *UnWind*, character(*), intent(in) *FileName*, character(3), intent(out) *CT_SC_ext*, integer, intent(out) *ErrStat*) [private]

Definition at line 1116 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.2.3 Member Data Documentation

3.2.3.1 integer `ctwind::ct_df_y` [private]

Definition at line 389 of file `tempassembled.f90`.

3.2.3.2 integer `ctwind::ct_df_z` [private]

Definition at line 390 of file `tempassembled.f90`.

3.2.3.3 real(reki) `ctwind::ct_zref` [private]

Definition at line 382 of file `tempassembled.f90`.

3.2.3.4 real(reki) `ctwind::ctdistsc` [private]

Definition at line 369 of file `tempassembled.f90`.

3.2.3.5 character(3) `ctwind::ctext` [private]

Definition at line 410 of file `tempassembled.f90`.

3.2.3.6 real(reki) `ctwind::ctlty` [private]

Definition at line 377 of file `tempassembled.f90`.

3.2.3.7 real(reki) `ctwind::ctlz` [private]

Definition at line 378 of file `tempassembled.f90`.

3.2.3.8 real(reki), dimension (numcomps) `ctwind::ctoffset` [private]

Definition at line 370 of file `tempassembled.f90`.

3.2.3.9 real(reki), dimension (numcomps) `ctwind::ctscale` [private]

Definition at line 371 of file `tempassembled.f90`.

3.2.3.10 real(reki) `ctwind::ctscalelevel` [private]

Definition at line 379 of file `tempassembled.f90`.

3.2.3.11 `character(1024) ctwind::ctspath` [private]

Definition at line 411 of file `tempassembled.f90`.

3.2.3.12 `integer, dimension(2) ctwind::ctvel_files` [private]

Definition at line 391 of file `tempassembled.f90`.

3.2.3.13 `real(reki), dimension (:,:,), allocatable ctwind::ctvelu` [private]

Definition at line 374 of file `tempassembled.f90`.

3.2.3.14 `real(reki), dimension (:,:,), allocatable ctwind::ctvelv` [private]

Definition at line 375 of file `tempassembled.f90`.

3.2.3.15 `real(reki), dimension (:,:,), allocatable ctwind::ctvelw` [private]

Definition at line 376 of file `tempassembled.f90`.

3.2.3.16 `logical ctwind::ctvertshft` [private]

Definition at line 408 of file `tempassembled.f90`.

3.2.3.17 `integer ctwind::ctwindunit` [private]

Definition at line 406 of file `tempassembled.f90`.

3.2.3.18 `real(reki) ctwind::ctyhwid` [private]

Definition at line 383 of file `tempassembled.f90`.

3.2.3.19 `real(reki) ctwind::ctymax` [private]

Definition at line 384 of file `tempassembled.f90`.

3.2.3.20 `real(reki) ctwind::ctyt` [private]

Definition at line 385 of file `tempassembled.f90`.

3.2.3.21 `real(reki) ctwind::ctzmax` [private]

Definition at line 386 of file `tempassembled.f90`.

3.2.3.22 `real(reki) ctwind::delyctgrid` [private]

Definition at line 367 of file `tempassembled.f90`.

3.2.3.23 `real(reki) ctwind::delzctgrid` [private]

Definition at line 368 of file `tempassembled.f90`.

3.2.3.24 `integer ctwind::indct_hi` [private]

Definition at line 393 of file `tempassembled.f90`.

3.2.3.25 integer ctwind::indct_lo [private]

Definition at line 394 of file tempassembled.f90.

3.2.3.26 real(reki) ctwind::invmtws [private]

Definition at line 387 of file tempassembled.f90.

3.2.3.27 integer, parameter ctwind::numcomps = 3 [private]

Definition at line 364 of file tempassembled.f90.

3.2.3.28 integer ctwind::numctt [private]

Definition at line 396 of file tempassembled.f90.

3.2.3.29 integer ctwind::numcty [private]

Definition at line 397 of file tempassembled.f90.

3.2.3.30 integer ctwind::numctyd [private]

Definition at line 398 of file tempassembled.f90.

3.2.3.31 integer ctwind::numctyd1 [private]

Definition at line 399 of file tempassembled.f90.

3.2.3.32 integer ctwind::numctz [private]

Definition at line 400 of file tempassembled.f90.

3.2.3.33 integer ctwind::numctzd [private]

Definition at line 401 of file tempassembled.f90.

3.2.3.34 integer ctwind::numctzd1 [private]

Definition at line 402 of file tempassembled.f90.

3.2.3.35 real(reki), dimension (:), allocatable ctwind::tdata [private]

Definition at line 380 of file tempassembled.f90.

3.2.3.36 integer, save ctwind::timeindx = 0 [private]

Definition at line 403 of file tempassembled.f90.

3.2.3.37 integer, dimension (:), allocatable ctwind::timestpct [private]

Definition at line 404 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.3 ctwind::ctwindfiles Type Reference

Private Attributes

- character(1024) [cttsfile](#)
- character(1024) [ctbackgr](#)

3.3.1 Detailed Description

Definition at line 413 of file tempassembled.f90.

3.3.2 Member Data Documentation**3.3.2.1 character(1024) ctwind::ctwindfiles::ctbackgr [private]**

Definition at line 415 of file tempassembled.f90.

3.3.2.2 character(1024) ctwind::ctwindfiles::cttsfile [private]

Definition at line 414 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.4 fdwind Module Reference**Public Member Functions**

- subroutine, public [fd_init](#) (UnWind, WindFile, RefHt, ErrStat)
- real(reki) function, public [fd_getvalue](#) (RVarName, ErrStat)
- type(inflintrpout) function, public [fd_getwindspeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [fd_terminate](#) (ErrStat)

Private Member Functions

- subroutine [readfdp](#) (UnWind, FileName, FDTsfile, ErrStat)
- subroutine [read4dtimes](#) (UnWind, FileName, ErrStat)
- subroutine [readall4ddata](#) (UnWind, ErrStat)
- subroutine [loadlesdata](#) (UnWind, FileNo, Indx, ErrStat)
- subroutine [read4ddata](#) (UnWind, FileName, Comp, Indx4, Scale, Offset, ErrStat)
- subroutine [load4ddata](#) (InpIndx)

Private Attributes

- real(reki) [delxgrid](#)
- real(reki) [delygrid](#)
- real(reki) [delzgrid](#)
- real(reki) [fdper](#)
- real(reki), dimension(2) [fdtime](#)
- real(reki), dimension(:, :, :, :), allocatable [fdu](#)

- real(reki), dimension(:,:,:), allocatable [fdv](#)
- real(reki), dimension(:,:,:), allocatable [fdw](#)
- real(reki), dimension(:,:,:), allocatable [fdudata](#)
- real(reki), dimension(:,:,:), allocatable [fdvdata](#)
- real(reki), dimension(:,:,:), allocatable [fdwdata](#)
- real(reki) [lx](#)
- real(reki) [ly](#)
- real(reki) [lz](#)
- real(reki), dimension(3) [offsets](#)
- real(reki), save [prevtime](#)
- real(reki) [rotdiam](#)
- real(reki), dimension(3) [scalfact](#)
- real(reki) [scalelevel](#)
- real(reki), dimension(:), allocatable [times4d](#)
- real(reki) [tm_max](#)
- real(reki) [tsclfact](#)
- real(reki) [t_4d_en](#)
- real(reki) [t_4d_st](#)
- real(reki) [xmax](#)
- real(reki) [xt](#)
- real(reki) [ymax](#)
- real(reki) [yt](#)
- real(reki) [zmax](#)
- real(reki) [zt](#)
- real(reki) [zref](#)
- integer [fd_df_x](#)
- integer [fd_df_y](#)
- integer [fd_df_z](#)
- integer [fdfileno](#)
- integer [fdrecl](#)
- integer [ind4dadv](#)
- integer [ind4dnew](#)
- integer [ind4dold](#)
- integer [num4dt](#)
- integer, parameter [num4dtd](#) = 2
- integer [num4dx](#)
- integer [num4dxd](#)
- integer [num4dxd1](#)
- integer [num4dy](#)
- integer [num4dyd](#)
- integer [num4dyd1](#)
- integer [num4dz](#)
- integer [num4dzd](#)
- integer [num4dzd1](#)
- integer [numadvect](#)

- integer [shft4dnew](#)
- integer, dimension(:), allocatable [times4dix](#)
- integer [fdunit](#)
- logical [advect](#)
- logical [vertshft](#)
- logical, save [initialized](#) = .FALSE.
- character(5), dimension(:), allocatable [advfiles](#)
- character(1024) [fdspath](#)

3.4.1 Detailed Description

Definition at line 1340 of file tempassembled.f90.

3.4.2 Member Function/Subroutine Documentation

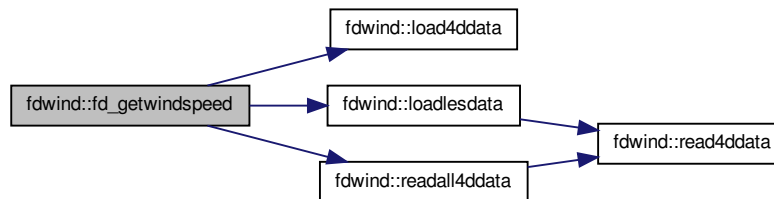
3.4.2.1 `real(reki)` function, public `fdwind::fd_getvalue (character(*), intent(in) RVarName, integer, intent(out) ErrStat)`

Definition at line 2200 of file tempassembled.f90.

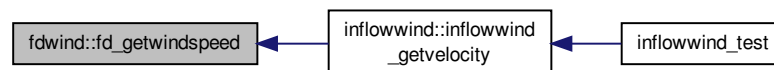
3.4.2.2 `type(inflintrpout)` function, public `fdwind::fd_getwindspeed (real(reki), intent(in) Time, real(reki), dimension(3), intent(in) InputPosition, integer, intent(out) ErrStat)`

Definition at line 2246 of file tempassembled.f90.

Here is the call graph for this function:



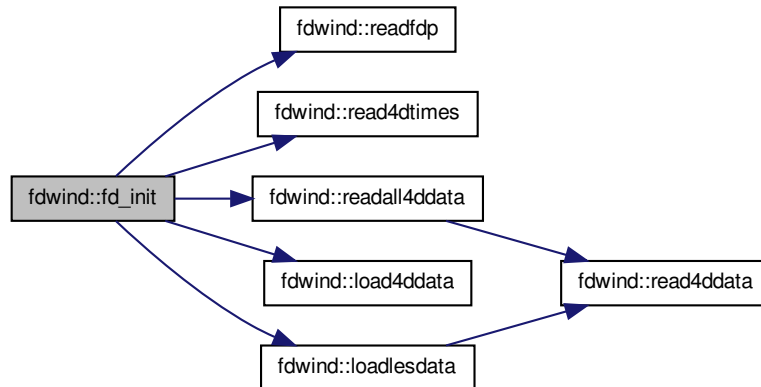
Here is the caller graph for this function:



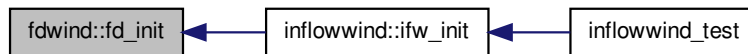
3.4.2.3 subroutine, public fdwind::fd_init (integer, intent(in) *UnWind*, character(*), intent(in) *WindFile*, real(reki), intent(in) *RefHt*, integer, intent(out) *ErrStat*)

Definition at line 1433 of file tempassembled.f90.

Here is the call graph for this function:



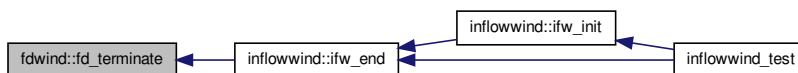
Here is the caller graph for this function:



3.4.2.4 subroutine, public fdwind::fd_terminate (integer, intent(out) *ErrStat*)

Definition at line 2578 of file tempassembled.f90.

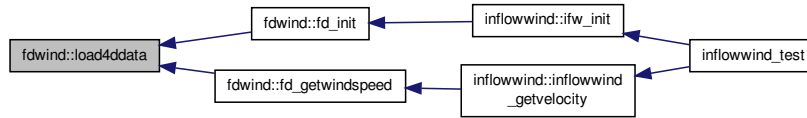
Here is the caller graph for this function:



3.4.2.5 subroutine fdwind::load4ddata (integer, intent(in) *Inplndx*) [private]

Definition at line 2173 of file tempassembled.f90.

Here is the caller graph for this function:



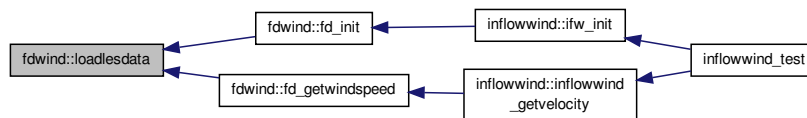
3.4.2.6 subroutine fdwind::loadlesdata (integer, intent(in) *UnWind*, integer, intent(in) *FileNo*, integer, intent(in) *Indx*, integer, intent(out) *ErrStat*) [private]

Definition at line 2051 of file tempassembled.f90.

Here is the call graph for this function:



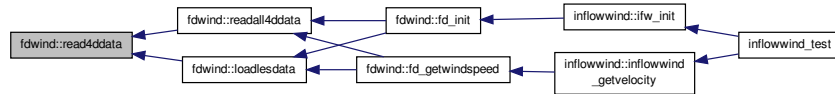
Here is the caller graph for this function:



3.4.2.7 subroutine fdwind::read4ddata (integer, intent(in) *UnWind*, character(*), intent(in) *FileName*, real(reki), dimension (:,:,,:), intent(inout) *Comp*, integer, intent(in) *Idx4*, real(reki), intent(in) *Scale*, real(reki), intent(in) *Offset*, integer, intent(out) *ErrStat*) [private]

Definition at line 2088 of file tempassembled.f90.

Here is the caller graph for this function:



3.4.2.8 subroutine `fdwind::read4dtimes` (integer, intent(in) *UnWind*, character(*), intent(in) *FileName*, integer, intent(out) *ErrStat*)
[private]

Definition at line 1937 of file `tempassembled.f90`.

Here is the caller graph for this function:



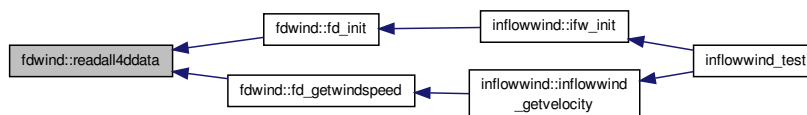
3.4.2.9 subroutine `fdwind::readall4ddata` (integer, intent(in) *UnWind*, integer, intent(out) *ErrStat*) [private]

Definition at line 2016 of file `tempassembled.f90`.

Here is the call graph for this function:



Here is the caller graph for this function:



3.4.2.10 subroutine `fdwind::readfdp` (integer, intent(in) *UnWind*, character(*), intent(in) *FileName*, character(*), intent(out) *FDTsfile*, integer, intent(out) *ErrStat*) [private]

Definition at line 1676 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.4.3 Member Data Documentation

3.4.3.1 logical `fdwind::advect` [private]

Definition at line 1416 of file `tempassembled.f90`.

3.4.3.2 character(5), dimension (:), allocatable `fdwind::advfiles` [private]

Definition at line 1421 of file `tempassembled.f90`.

3.4.3.3 real(reki) `fdwind::delxgrid` [private]

Definition at line 1359 of file `tempassembled.f90`.

3.4.3.4 real(reki) `fdwind::delygrid` [private]

Definition at line 1360 of file `tempassembled.f90`.

3.4.3.5 real(reki) `fdwind::delzgrid` [private]

Definition at line 1361 of file `tempassembled.f90`.

3.4.3.6 integer `fdwind::fd_df_x` [private]

Definition at line 1391 of file `tempassembled.f90`.

3.4.3.7 integer `fdwind::fd_df_y` [private]

Definition at line 1392 of file `tempassembled.f90`.

3.4.3.8 integer `fdwind::fd_df_z` [private]

Definition at line 1393 of file `tempassembled.f90`.

3.4.3.9 integer `fdwind::fdfileno` [private]

Definition at line 1394 of file `tempassembled.f90`.

3.4.3.10 real(reki) `fdwind::fdper` [private]

Definition at line 1362 of file `tempassembled.f90`.

3.4.3.11 integer fdwind::fdrecl [private]

Definition at line 1395 of file tempassembled.f90.

3.4.3.12 character(1024) fdwind::fdspath [private]

Definition at line 1422 of file tempassembled.f90.

3.4.3.13 real(reki), dimension (2) fdwind::fdtime [private]

Definition at line 1363 of file tempassembled.f90.

3.4.3.14 real(reki), dimension (:,::,:), allocatable fdwind::fdu [private]

Definition at line 1364 of file tempassembled.f90.

3.4.3.15 real(reki), dimension (:,::,:), allocatable fdwind::fdudata [private]

Definition at line 1367 of file tempassembled.f90.

3.4.3.16 integer fdwind::fdunit [private]

Definition at line 1414 of file tempassembled.f90.

3.4.3.17 real(reki), dimension (:,::,:), allocatable fdwind::fdv [private]

Definition at line 1365 of file tempassembled.f90.

3.4.3.18 real(reki), dimension (:,::,:), allocatable fdwind::fdvdata [private]

Definition at line 1368 of file tempassembled.f90.

3.4.3.19 real(reki), dimension (:,::,:), allocatable fdwind::fdw [private]

Definition at line 1366 of file tempassembled.f90.

3.4.3.20 real(reki), dimension (:,::,:), allocatable fdwind::fdwdata [private]

Definition at line 1369 of file tempassembled.f90.

3.4.3.21 integer fdwind::ind4dadv [private]

Definition at line 1396 of file tempassembled.f90.

3.4.3.22 integer fdwind::ind4dnew [private]

Definition at line 1397 of file tempassembled.f90.

3.4.3.23 integer fdwind::ind4dold [private]

Definition at line 1398 of file tempassembled.f90.

3.4.3.24 logical, save fdwind::initialized = .FALSE. [private]

Definition at line 1419 of file tempassembled.f90.

3.4.3.25 `real(reki) fdwind::lx` [private]

Definition at line 1370 of file tempassembled.f90.

3.4.3.26 `real(reki) fdwind::ly` [private]

Definition at line 1371 of file tempassembled.f90.

3.4.3.27 `real(reki) fdwind::lz` [private]

Definition at line 1372 of file tempassembled.f90.

3.4.3.28 `integer fdwind::num4dt` [private]

Definition at line 1399 of file tempassembled.f90.

3.4.3.29 `integer, parameter fdwind::num4dtd = 2` [private]

Definition at line 1400 of file tempassembled.f90.

3.4.3.30 `integer fdwind::num4dx` [private]

Definition at line 1401 of file tempassembled.f90.

3.4.3.31 `integer fdwind::num4dxd` [private]

Definition at line 1402 of file tempassembled.f90.

3.4.3.32 `integer fdwind::num4dxd1` [private]

Definition at line 1403 of file tempassembled.f90.

3.4.3.33 `integer fdwind::num4dy` [private]

Definition at line 1404 of file tempassembled.f90.

3.4.3.34 `integer fdwind::num4dyd` [private]

Definition at line 1405 of file tempassembled.f90.

3.4.3.35 `integer fdwind::num4dyd1` [private]

Definition at line 1406 of file tempassembled.f90.

3.4.3.36 `integer fdwind::num4dz` [private]

Definition at line 1407 of file tempassembled.f90.

3.4.3.37 `integer fdwind::num4dzd` [private]

Definition at line 1408 of file tempassembled.f90.

3.4.3.38 `integer fdwind::num4dzd1` [private]

Definition at line 1409 of file tempassembled.f90.

3.4.3.39 integer fdwind::numadvect [private]

Definition at line 1410 of file tempassembled.f90.

3.4.3.40 real(reki), dimension (3) fdwind::offsets [private]

Definition at line 1373 of file tempassembled.f90.

3.4.3.41 real(reki), save fdwind::prevtime [private]

Definition at line 1374 of file tempassembled.f90.

3.4.3.42 real(reki) fdwind::rotdiam [private]

Definition at line 1375 of file tempassembled.f90.

3.4.3.43 real(reki) fdwind::scalevel [private]

Definition at line 1377 of file tempassembled.f90.

3.4.3.44 real(reki), dimension (3) fdwind::scalfact [private]

Definition at line 1376 of file tempassembled.f90.

3.4.3.45 integer fdwind::shft4dnew [private]

Definition at line 1411 of file tempassembled.f90.

3.4.3.46 real(reki) fdwind::t_4d_en [private]

Definition at line 1381 of file tempassembled.f90.

3.4.3.47 real(reki) fdwind::t_4d_st [private]

Definition at line 1382 of file tempassembled.f90.

3.4.3.48 real(reki), dimension (:), allocatable fdwind::times4d [private]

Definition at line 1378 of file tempassembled.f90.

3.4.3.49 integer, dimension (:), allocatable fdwind::times4dix [private]

Definition at line 1412 of file tempassembled.f90.

3.4.3.50 real(reki) fdwind::tm_max [private]

Definition at line 1379 of file tempassembled.f90.

3.4.3.51 real(reki) fdwind::tsclfact [private]

Definition at line 1380 of file tempassembled.f90.

3.4.3.52 logical fdwind::vertshft [private]

Definition at line 1417 of file tempassembled.f90.

3.4.3.53 `real(reki) fdwind::xmax [private]`

Definition at line 1383 of file `tempassembled.f90`.

3.4.3.54 `real(reki) fdwind::xt [private]`

Definition at line 1384 of file `tempassembled.f90`.

3.4.3.55 `real(reki) fdwind::ymax [private]`

Definition at line 1385 of file `tempassembled.f90`.

3.4.3.56 `real(reki) fdwind::yt [private]`

Definition at line 1386 of file `tempassembled.f90`.

3.4.3.57 `real(reki) fdwind::zmax [private]`

Definition at line 1387 of file `tempassembled.f90`.

3.4.3.58 `real(reki) fdwind::zref [private]`

Definition at line 1389 of file `tempassembled.f90`.

3.4.3.59 `real(reki) fdwind::zt [private]`

Definition at line 1388 of file `tempassembled.f90`.

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

- [tempassembled.f90](#)

3.5 ffwind::ff_getvalue Interface Reference

Private Member Functions

- `real(reki) function ff_getvalue (RVarName, ErrStat)`

3.5.1 Detailed Description

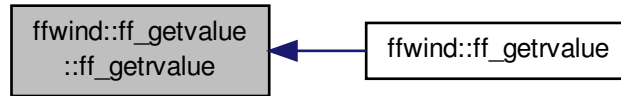
Definition at line 2653 of file `tempassembled.f90`.

3.5.2 Member Function/Subroutine Documentation

3.5.2.1 `real(reki) function ffwind::ff_getvalue::ff_getvalue (character(*), intent(in) RVarName, integer, intent(out) ErrStat)`
`[private]`

Definition at line 4208 of file `tempassembled.f90`.

Here is the caller graph for this function:



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

- [tempassembled.f90](#)

3.6 ffwind Module Reference

Data Types

- interface [ff_getvalue](#)

Public Member Functions

- subroutine, public [ff_init](#) (UnWind, BinFile, ErrStat)
- type(inflintrpout) function, public [ff_getwindspeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [ff_terminate](#) (ErrStat)

Private Member Functions

- subroutine [read_bladed_ff_header0](#) (UnWind, ErrStat)
- subroutine [read_bladed_ff_header1](#) (UnWind, TI, ErrStat)
- subroutine [read_bladed_grids](#) (UnWind, Cwise, TI, ErrStat)
- subroutine [read_summary_ff](#) (UnWind, FileName, Cwise, ZCenter, TI, ErrStat)
- subroutine [read_turbsim_ff](#) (UnWind, WindFile, ErrStat)
- subroutine [read_ff_tower](#) (UnWind, WindFile, ErrStat)
- real(reki) function [ff_getvalue](#) (RVarName, ErrStat)
- real(reki) function, dimension(3) [ff_interp](#) (Time, Position, ErrStat)

Private Attributes

- real(reki), dimension(:,:,:), allocatable [ffdata](#)
- real(reki), dimension(:,:,:), allocatable [fftower](#)
- real(reki) [fdtime](#)
- real(reki) [ffrate](#)
- real(reki) [ffyhwid](#)

- real(reki) [ffzhwid](#)
- real(reki) [refht](#)
- real(reki) [gridbase](#)
- real(reki) [initxposition](#)
- real(reki) [invffyd](#)
- real(reki) [invffzd](#)
- real(reki) [invmffws](#)
- real(reki) [meanffws](#)
- real(reki) [totaltime](#)
- integer [nffcomp](#)
- integer [nffsteps](#)
- integer [nygrids](#)
- integer [nzgrids](#)
- integer [ntgrids](#)
- logical, save [initialized](#) = .FALSE.
- logical [periodic](#) = .FALSE.

3.6.1 Detailed Description

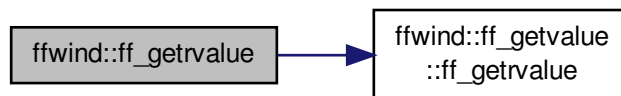
Definition at line 2604 of file tempassembled.f90.

3.6.2 Member Function/Subroutine Documentation

3.6.2.1 `real(reki) function ffwind::ff_getrvalue (character(*), intent(in) RVarName, integer, intent(out) ErrStat)` [private]

Definition at line 4208 of file tempassembled.f90.

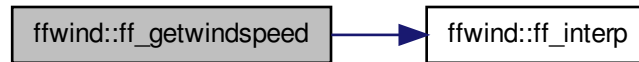
Here is the call graph for this function:



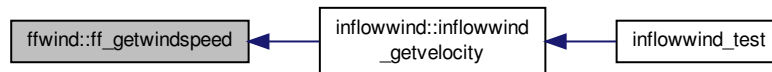
3.6.2.2 `type(inflintrpout) function, public ffwind::ff_getwindspeed (real(reki), intent(in) Time, real(reki), dimension(3), intent(in) InputPosition, integer, intent(out) ErrStat)`

Definition at line 4263 of file tempassembled.f90.

Here is the call graph for this function:



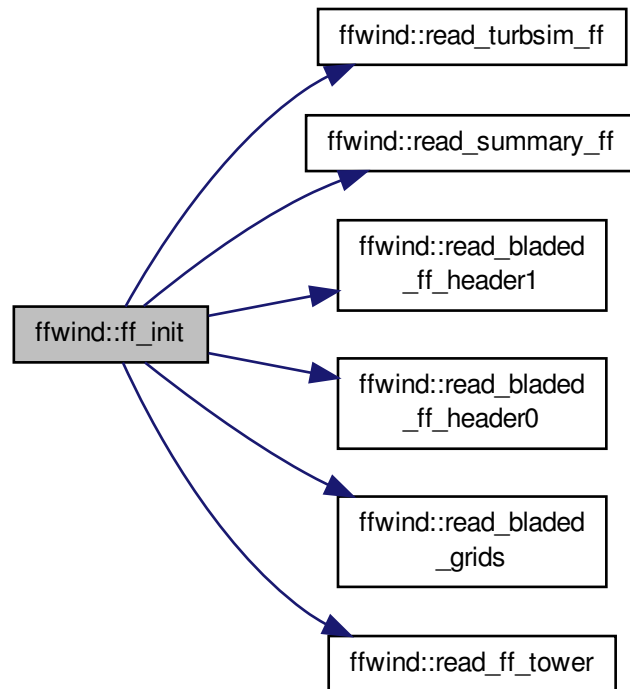
Here is the caller graph for this function:



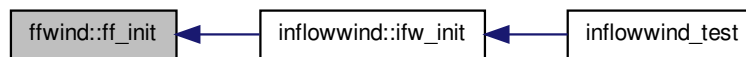
3.6.2.3 subroutine, public `ffwind::ff_init (integer, intent(in) UnWind, character(*), intent(in) BinFile, integer, intent(out) ErrStat)`

Definition at line 2665 of file `tempassembled.f90`.

Here is the call graph for this function:



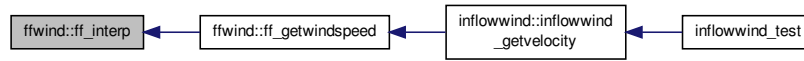
Here is the caller graph for this function:



3.6.2.4 `real(reki) function, dimension(3) ffwind::ff_interp (real(reki), intent(in) Time, real(reki), dimension(3), intent(in) Position, integer, intent(out) ErrStat) [private]`

Definition at line 4325 of file `tempassembled.f90`.

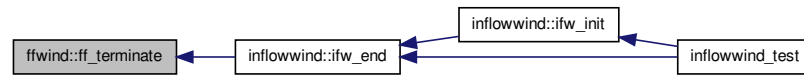
Here is the caller graph for this function:



3.6.2.5 subroutine, public ffwind::ff_terminate (integer, intent(out) *ErrStat*)

Definition at line 4626 of file tempassembled.f90.

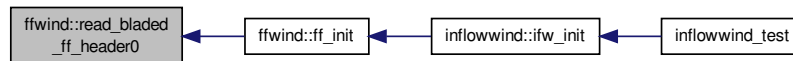
Here is the caller graph for this function:



3.6.2.6 subroutine ffwind::read_bladed_ff_header0 (integer, intent(in) *UnWind*, integer, intent(out) *ErrStat*) [private]

Definition at line 2845 of file tempassembled.f90.

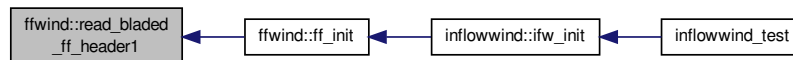
Here is the caller graph for this function:



3.6.2.7 subroutine ffwind::read_bladed_ff_header1 (integer, intent(in) *UnWind*, real(*reki*), dimension(3), intent(out) *Tl*, integer, intent(out) *ErrStat*) [private]

Definition at line 2985 of file tempassembled.f90.

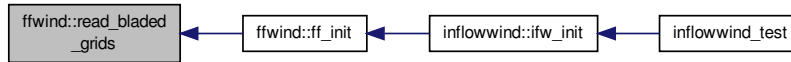
Here is the caller graph for this function:



3.6.2.8 subroutine `ffwind::read_bladed_grids` (integer, intent(in) *UnWind*, logical, intent(in) *CWise*, real(reki), dimension (3), intent(in) *TI*, integer, intent(out) *ErrStat*) [private]

Definition at line 3325 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.6.2.9 subroutine `ffwind::read_ff_tower` (integer, intent(in) *UnWind*, character(*), intent(in) *WindFile*, integer, intent(out) *ErrStat*) [private]

Definition at line 4003 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.6.2.10 subroutine `ffwind::read_summary_ff` (integer, intent(in) *UnWind*, character(*), intent(in) *FileName*, logical, intent(out) *CWise*, real(reki), intent(out) *ZCenter*, real(reki), dimension (3), intent(out) *TI*, integer, intent(out) *ErrStat*) [private]

Definition at line 3463 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.6.2.11 subroutine `ffwind::read_turbsim_ff` (integer, intent(in) *UnWind*, character(*), intent(in) *WindFile*, integer, intent(out) *ErrStat*) [private]

Definition at line 3697 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.6.3 Member Data Documentation

3.6.3.1 `real(reki), dimension (:,:,,:), allocatable ffwind::ffdata` [private]

Definition at line 2627 of file tempassembled.f90.

3.6.3.2 `real(reki) ffwind::ffdtim` [private]

Definition at line 2630 of file tempassembled.f90.

3.6.3.3 `real(reki) ffwind::ffrate` [private]

Definition at line 2631 of file tempassembled.f90.

3.6.3.4 `real(reki), dimension (:,:,,:), allocatable ffwind::fftower` [private]

Definition at line 2628 of file tempassembled.f90.

3.6.3.5 `real(reki) ffwind::ffyhwd` [private]

Definition at line 2632 of file tempassembled.f90.

3.6.3.6 `real(reki) ffwind::ffzhwd` [private]

Definition at line 2633 of file tempassembled.f90.

3.6.3.7 `real(reki) ffwind::gridbase` [private]

Definition at line 2635 of file tempassembled.f90.

3.6.3.8 `logical, save ffwind::initialized = .FALSE.` [private]

Definition at line 2649 of file tempassembled.f90.

3.6.3.9 `real(reki) ffwind::initxposition` [private]

Definition at line 2636 of file tempassembled.f90.

3.6.3.10 `real(reki) ffwind::invffyd` [private]

Definition at line 2637 of file tempassembled.f90.

3.6.3.11 `real(reki) ffwind::invffzd` [private]

Definition at line 2638 of file tempassembled.f90.

3.6.3.12 `real(reki) ffwind::invmfws` [private]

Definition at line 2639 of file `tempassembled.f90`.

3.6.3.13 `real(reki) ffwind::meanffws` [private]

Definition at line 2640 of file `tempassembled.f90`.

3.6.3.14 `integer ffwind::nffcomp` [private]

Definition at line 2643 of file `tempassembled.f90`.

3.6.3.15 `integer ffwind::nffsteps` [private]

Definition at line 2644 of file `tempassembled.f90`.

3.6.3.16 `integer ffwind::ntgrids` [private]

Definition at line 2647 of file `tempassembled.f90`.

3.6.3.17 `integer ffwind::nygrids` [private]

Definition at line 2645 of file `tempassembled.f90`.

3.6.3.18 `integer ffwind::nzgrids` [private]

Definition at line 2646 of file `tempassembled.f90`.

3.6.3.19 `logical ffwind::periodic = .FALSE.` [private]

Definition at line 2650 of file `tempassembled.f90`.

3.6.3.20 `real(reki) ffwind::refht` [private]

Definition at line 2634 of file `tempassembled.f90`.

3.6.3.21 `real(reki) ffwind::totaltime` [private]

Definition at line 2641 of file `tempassembled.f90`.

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

- [tempassembled.f90](#)

3.7 hawcwind Module Reference

Public Member Functions

- subroutine, public [hw_init](#) (UnWind, InpFileName, ErrStat)
- `real(reki)` function, public [hw_getvalue](#) (RVarName, ErrStat)
- `type(inflintrapout)` function, public [hw_getwindspeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [hw_terminate](#) (ErrStat)

Private Member Functions

- `real(reki)` function, dimension(3) [hw_linearinterp](#) (Time, Position, ErrStat)

Private Attributes

- real(reki), dimension(:,:,:), allocatable [winddata](#)
- real(reki) [deltaxinv](#)
- real(reki) [deltayinv](#)
- real(reki) [deltazinv](#)
- integer, parameter [nc](#) = 3
- integer [nx](#)
- integer [ny](#)
- integer [nz](#)
- real(reki) [gridbase](#)
- real(reki) [lengthx](#)
- real(reki) [lengthyhalf](#)
- real(reki) [refht](#)
- real(reki) [uref](#)
- logical, save [initialized](#) = .FALSE.

3.7.1 Detailed Description

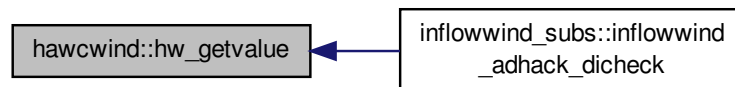
Definition at line 4645 of file tempassembled.f90.

3.7.2 Member Function/Subroutine Documentation

3.7.2.1 real(reki) function, public hawcwind::hw_getvalue (character(*), intent(in) *RVarName*, integer, intent(out) *ErrStat*)

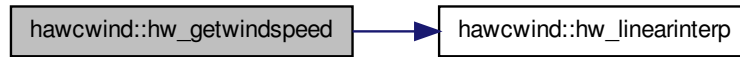
Definition at line 5015 of file tempassembled.f90.

Here is the caller graph for this function:

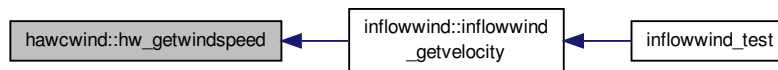
3.7.2.2 type(inflintrpout) function, public hawcwind::hw_getwindspeed (real(reki), intent(in) *Time*, real(reki), dimension(3), intent(in) *InputPosition*, integer, intent(out) *ErrStat*)

Definition at line 5070 of file tempassembled.f90.

Here is the call graph for this function:



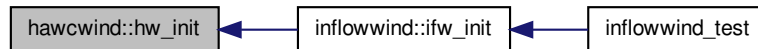
Here is the caller graph for this function:



3.7.2.3 subroutine, public `hawcwind::hw_init (integer, intent(in) UnWind, character(*), intent(in) InpFileName, integer, intent(out) ErrStat)`

Definition at line 4694 of file `tempassembled.f90`.

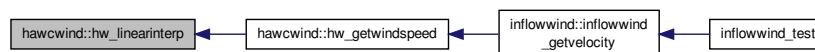
Here is the caller graph for this function:



3.7.2.4 `real(reki) function, dimension(3) hawcwind::hw_linearinterp (real(reki), intent(in) Time, real(reki), dimension(3), intent(in) Position, integer, intent(out) ErrStat) [private]`

Definition at line 5104 of file `tempassembled.f90`.

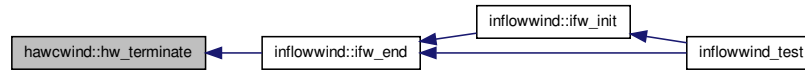
Here is the caller graph for this function:



3.7.2.5 subroutine, public hawcwind::hw_terminate (integer, intent(out) *ErrStat*)

Definition at line 5309 of file tempassembled.f90.

Here is the caller graph for this function:



3.7.3 Member Data Documentation

3.7.3.1 `real(reki) hawcwind::deltaxinv` [private]

Definition at line 4668 of file tempassembled.f90.

3.7.3.2 `real(reki) hawcwind::deltayinv` [private]

Definition at line 4669 of file tempassembled.f90.

3.7.3.3 `real(reki) hawcwind::deltazinv` [private]

Definition at line 4670 of file tempassembled.f90.

3.7.3.4 `real(reki) hawcwind::gridbase` [private]

Definition at line 4677 of file tempassembled.f90.

3.7.3.5 `logical, save hawcwind::initialized = .FALSE.` [private]

Definition at line 4684 of file tempassembled.f90.

3.7.3.6 `real(reki) hawcwind::lengthx` [private]

Definition at line 4678 of file tempassembled.f90.

3.7.3.7 `real(reki) hawcwind::lengthyhalf` [private]

Definition at line 4679 of file tempassembled.f90.

3.7.3.8 `integer, parameter hawcwind::nc = 3` [private]

Definition at line 4672 of file tempassembled.f90.

3.7.3.9 `integer hawcwind::nx` [private]

Definition at line 4673 of file tempassembled.f90.

3.7.3.10 `integer hawcwind::ny` [private]

Definition at line 4674 of file tempassembled.f90.

3.7.3.11 integer hawcwind::nz [private]

Definition at line 4675 of file tempassembled.f90.

3.7.3.12 real(reki) hawcwind::refht [private]

Definition at line 4680 of file tempassembled.f90.

3.7.3.13 real(reki) hawcwind::uref [private]

Definition at line 4681 of file tempassembled.f90.

3.7.3.14 real(reki), dimension (:,:,:,:), allocatable hawcwind::winddata [private]

Definition at line 4666 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.8 hhwind::hh_info Type Reference**Public Attributes**

- real(reki) [referenceheight](#)
- real(reki) [width](#)

3.8.1 Detailed Description

Definition at line 5376 of file tempassembled.f90.

3.8.2 Member Data Documentation**3.8.2.1 real(reki) hhwind::hh_info::referenceheight**

Definition at line 5377 of file tempassembled.f90.

3.8.2.2 real(reki) hhwind::hh_info::width

Definition at line 5378 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.9 hhwind Module Reference**Data Types**

- type [hh_info](#)

Public Member Functions

- subroutine, public [hh_init](#) (UnWind, WindFile, WindInfo, ErrStat)
- type(inflintrpout) function, public [hh_getwindspeed](#) (Time, InputPosition, ErrStat)
- type(inflintrpout) function, public [hh_get_adhack_windspeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [hh_setlinearizedels](#) (Perturbations, ErrStat)
- subroutine, public [hh_terminate](#) (ErrStat)

Private Attributes

- real(reki), dimension(:), allocatable [tdata](#)
- real(reki), dimension(:), allocatable [delta](#)
- real(reki), dimension(:), allocatable [v](#)
- real(reki), dimension(:), allocatable [vz](#)
- real(reki), dimension(:), allocatable [hshr](#)
- real(reki), dimension(:), allocatable [vshr](#)
- real(reki), dimension(:), allocatable [vlinshr](#)
- real(reki), dimension(:), allocatable [vgust](#)
- real(reki), dimension(7) [linearizedels](#)
- real(reki) [refht](#)
- real(reki) [refwid](#)
- integer [numdatalines](#)
- integer, save [timeindx](#) = 0
- logical, save [linearize](#) = .FALSE.

3.9.1 Detailed Description

Definition at line 5326 of file tempassembled.f90.

3.9.2 Member Function/Subroutine Documentation

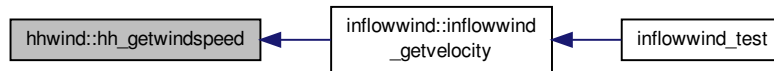
- 3.9.2.1 type(inflintrpout) function, public hhwind::hh_get_adhack_windspeed (real(reki), intent(in) *Time*, real(reki), dimension(3), intent(in) *InputPosition*, integer, intent(out) *ErrStat*)

Definition at line 5787 of file tempassembled.f90.

- 3.9.2.2 type(inflintrpout) function, public hhwind::hh_getwindspeed (real(reki), intent(in) *Time*, real(reki), dimension(3), intent(in) *InputPosition*, integer, intent(out) *ErrStat*)

Definition at line 5656 of file tempassembled.f90.

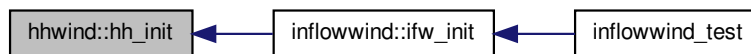
Here is the caller graph for this function:



3.9.2.3 subroutine, public `hhwind::hh_init (integer, intent(in) UnWind, character(*), intent(in) WindFile, type(hh_info), intent(in) WindInfo, integer, intent(out) ErrStat)`

Definition at line 5389 of file `tempassembled.f90`.

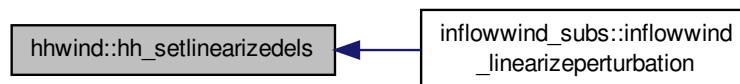
Here is the caller graph for this function:



3.9.2.4 subroutine, public `hhwind::hh_setlinearizedels (real(reki), dimension(7), intent(in) Perturbations, integer, intent(out) ErrStat)`

Definition at line 5880 of file `tempassembled.f90`.

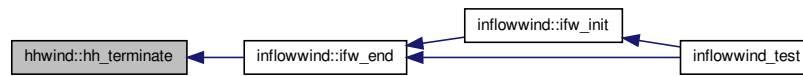
Here is the caller graph for this function:



3.9.2.5 subroutine, public `hhwind::hh_terminate (integer, intent(out) ErrStat)`

Definition at line 5906 of file `tempassembled.f90`.

Here is the caller graph for this function:



3.9.3 Member Data Documentation

3.9.3.1 `real(reki), dimension (:), allocatable hhwind::delta` [private]

Definition at line 5359 of file tempassembled.f90.

3.9.3.2 `real(reki), dimension (:), allocatable hhwind::hshr` [private]

Definition at line 5362 of file tempassembled.f90.

3.9.3.3 `logical, save hhwind::linearize = .FALSE.` [private]

Definition at line 5374 of file tempassembled.f90.

3.9.3.4 `real(reki), dimension(7) hhwind::linearizedels` [private]

Definition at line 5367 of file tempassembled.f90.

3.9.3.5 `integer hhwind::numdatalines` [private]

Definition at line 5371 of file tempassembled.f90.

3.9.3.6 `real(reki) hhwind::refht` [private]

Definition at line 5368 of file tempassembled.f90.

3.9.3.7 `real(reki) hhwind::refwid` [private]

Definition at line 5369 of file tempassembled.f90.

3.9.3.8 `real(reki), dimension (:), allocatable hhwind::tdata` [private]

Definition at line 5358 of file tempassembled.f90.

3.9.3.9 `integer, save hhwind::timeindx = 0` [private]

Definition at line 5372 of file tempassembled.f90.

3.9.3.10 `real(reki), dimension (:), allocatable hhwind::v` [private]

Definition at line 5360 of file tempassembled.f90.

3.9.3.11 `real(reki), dimension (:), allocatable hhwind::vgust` [private]

Definition at line 5365 of file tempassembled.f90.

3.9.3.12 `real(reki), dimension(:), allocatable hhwind::vlinshr` [private]

Definition at line 5364 of file tempassembled.f90.

3.9.3.13 `real(reki), dimension (:), allocatable hhwind::vshr` [private]

Definition at line 5363 of file tempassembled.f90.

3.9.3.14 `real(reki), dimension (:), allocatable hhwind::vz` [private]

Definition at line 5361 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.10 sharedinflowdefs::ifw_constraintstatetype Type Reference**Public Attributes**

- `real(reki)` [dummyconstrstate](#)

3.10.1 Detailed Description

Definition at line 68 of file tempassembled.f90.

3.10.2 Member Data Documentation**3.10.2.1** `real(reki) sharedinflowdefs::ifw_constraintstatetype::dummyconstrstate`

Definition at line 70 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.11 sharedinflowdefs::ifw_continuousstatetype Type Reference**Public Attributes**

- `real(reki)` [dummycontstate](#)

3.11.1 Detailed Description

Definition at line 54 of file tempassembled.f90.

3.11.2 Member Data Documentation**3.11.2.1** `real(reki) sharedinflowdefs::ifw_continuousstatetype::dummycontstate`

Definition at line 56 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.12 sharedinflowdefs::ifw_discretestatetype Type Reference

Public Attributes

- real(reki) [dummydiscstate](#)

3.12.1 Detailed Description

Definition at line 62 of file tempassembled.f90.

3.12.2 Member Data Documentation

3.12.2.1 real(reki) sharedinflowdefs::ifw_discretestatetype::dummydiscstate

Definition at line 64 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.13 sharedinflowdefs::ifw_initinputtype Type Reference

Public Attributes

- character(1024) [windfilename](#)
- integer [windfiletype](#)
- real(reki) [referenceheight](#)
- real(reki) [width](#)

3.13.1 Detailed Description

Definition at line 40 of file tempassembled.f90.

3.13.2 Member Data Documentation

3.13.2.1 real(reki) sharedinflowdefs::ifw_initinputtype::referenceheight

Definition at line 47 of file tempassembled.f90.

3.13.2.2 real(reki) sharedinflowdefs::ifw_initinputtype::width

Definition at line 48 of file tempassembled.f90.

3.13.2.3 character(1024) sharedinflowdefs::ifw_initinputtype::windfilename

Definition at line 44 of file tempassembled.f90.

3.13.2.4 integer sharedinflowdefs::ifw_initinputtype::windfiletype

Definition at line 45 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.14 sharedinflowdefs::ifw_inputtype Type Reference

Public Attributes

- real(reki) [dummyinput](#)

3.14.1 Detailed Description

Definition at line 108 of file tempassembled.f90.

3.14.2 Member Data Documentation

3.14.2.1 real(reki) sharedinflowdefs::ifw_inputtype::dummyinput

Definition at line 112 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.15 sharedinflowdefs::ifw_otherstatetype Type Reference

Public Attributes

- integer(intki) [dummyotherstate](#)

3.15.1 Detailed Description

Definition at line 74 of file tempassembled.f90.

3.15.2 Member Data Documentation

3.15.2.1 integer(intki) sharedinflowdefs::ifw_otherstatetype::dummyotherstate

Definition at line 77 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.16 sharedinflowdefs::ifw_outputtype Type Reference

Public Attributes

- real(reki) [dummyoutput](#)

3.16.1 Detailed Description

Definition at line 118 of file tempassembled.f90.

3.16.2 Member Data Documentation

3.16.2.1 real(reki) sharedinflowdefs::ifw_outputtype::dummyoutput

Definition at line 122 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.17 sharedinflowdefs::ifw_parametertype Type Reference

Public Attributes

- character(1024) [windfilename](#)
- character(1024) [windfilenameroot](#)
- character(3) [windfilenameext](#)
- integer [windfiletype](#) = 0
- real(reki) [referenceheight](#)
- real(reki) [width](#)
- real(reki) [halfwidth](#)
- logical [ct_flag](#) = .FALSE.
- logical [initialized](#) = .FALSE.

3.17.1 Detailed Description

Definition at line 83 of file tempassembled.f90.

3.17.2 Member Data Documentation

3.17.2.1 logical sharedinflowdefs::ifw_parametertype::ct_flag = .FALSE.

Definition at line 100 of file tempassembled.f90.

3.17.2.2 real(reki) sharedinflowdefs::ifw_parametertype::halfwidth

Definition at line 97 of file tempassembled.f90.

3.17.2.3 logical sharedinflowdefs::ifw_parametertype::initialized = .FALSE.

Definition at line 101 of file tempassembled.f90.

3.17.2.4 real(reki) sharedinflowdefs::ifw_parametertype::referenceheight

Definition at line 94 of file tempassembled.f90.

3.17.2.5 real(reki) sharedinflowdefs::ifw_parametertype::width

Definition at line 95 of file tempassembled.f90.

3.17.2.6 character(1024) sharedinflowdefs::ifw_parametertype::windfilename

Definition at line 88 of file tempassembled.f90.

3.17.2.7 character(3) sharedinflowdefs::ifw_parametertype::windfilenameext

Definition at line 90 of file tempassembled.f90.

3.17.2.8 character(1024) sharedinflowdefs::ifw_parametertype::windfilenameroot

Definition at line 89 of file tempassembled.f90.

3.17.2.9 integer sharedinflowdefs::ifw_parametertype::windfiletype = 0

Definition at line 91 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.18 sharedinflowdefs::inflintrpout Type Reference

Public Attributes

- real(reki), dimension(3) [velocity](#)

3.18.1 Detailed Description

Definition at line 139 of file tempassembled.f90.

3.18.2 Member Data Documentation

3.18.2.1 real(reki), dimension(3) sharedinflowdefs::inflintrpout::velocity

Definition at line 140 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.19 inflowwind Module Reference

Public Member Functions

- subroutine, public [ifw_init](#) (InitData, ParamData, Interval, ErrStat, ErrMsg)

- type(inflintrpout) function, public [inflowwind_getvelocity](#) (ParamData, Time, InputPosition, ErrStat)
- subroutine, public [ifw_end](#) (ParamData, ErrStat)

Private Attributes

- integer(intki), parameter [dataformatid](#) = 1
- type(progdesc), parameter [ifw_progdesc](#) = ProgDesc('InflowWind', 'v1.00.00', '27-Dec-2012')
- integer [unwind](#) = 91

3.19.1 Detailed Description

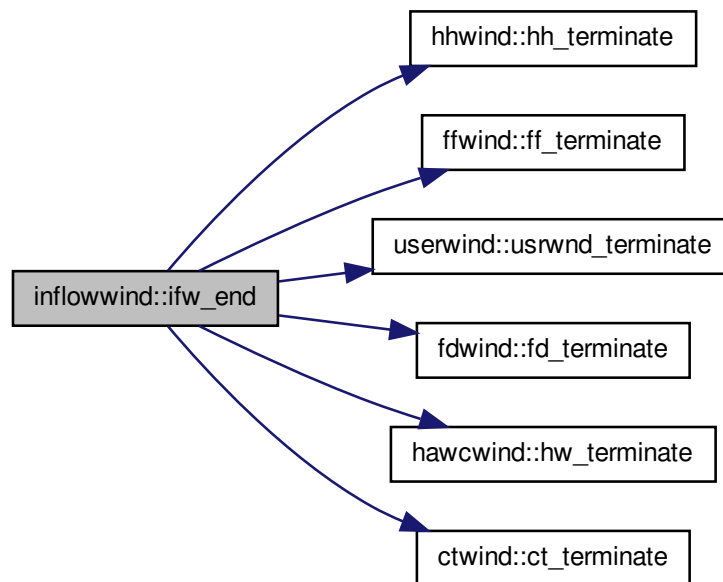
Definition at line 6786 of file tempassembled.f90.

3.19.2 Member Function/Subroutine Documentation

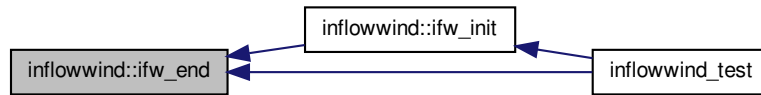
3.19.2.1 subroutine, public inflowwind::ifw_end (type(ifw_parametertype), intent(inout) *ParamData*, integer, intent(out) *ErrStat*)

Definition at line 7149 of file tempassembled.f90.

Here is the call graph for this function:



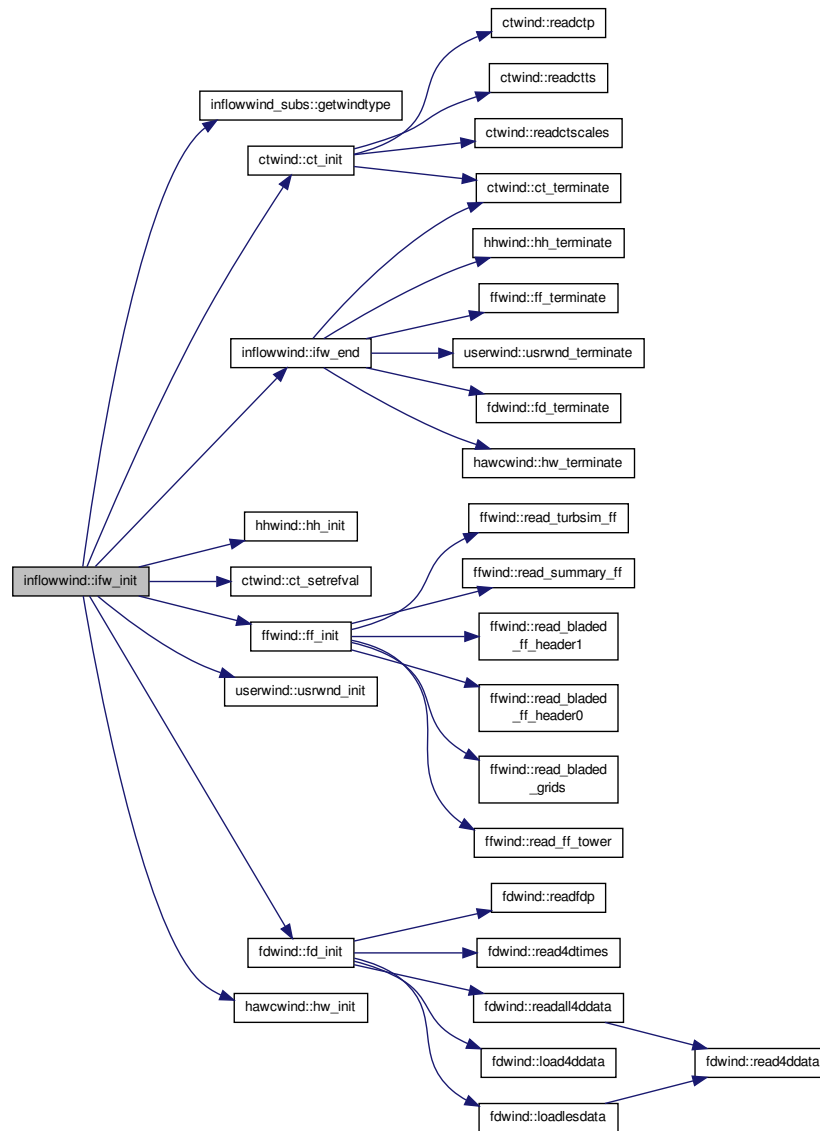
Here is the caller graph for this function:



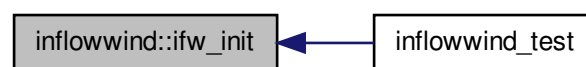
3.19.2.2 subroutine, public inflowwind::ifw_init (type(ifw_initinputtype), intent(in) *InitData*, type(ifw_parametertype), intent(out) *ParamData*, real(dbki), intent(inout) *Interval*, integer(intki), intent(out) *ErrStat*, character(*), intent(out) *ErrMsg*)

Definition at line 6881 of file tempassembled.f90.

Here is the call graph for this function:



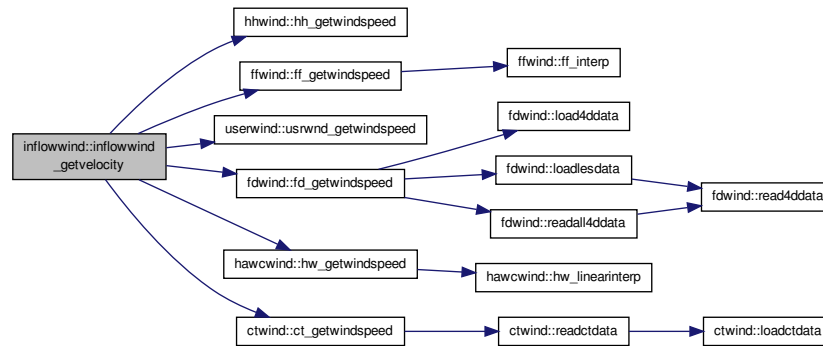
Here is the caller graph for this function:



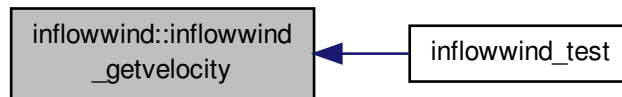
3.19.2.3 `type(inflintrpout) function, public inflowwind::inflowwind_getvelocity (type(ifw_parametertype), intent(in) ParamData, real(reki), intent(in) Time, real(reki), dimension(3), intent(in) InputPosition, integer, intent(out) ErrStat)`

Definition at line 7085 of file tempassembled.f90.

Here is the call graph for this function:



Here is the caller graph for this function:



3.19.3 Member Data Documentation

3.19.3.1 `integer(intki), parameter inflowwind::dataformatid = 1` [private]

Definition at line 6818 of file tempassembled.f90.

3.19.3.2 `type(progdesc), parameter inflowwind::ifw_progdesc = ProgDesc('InflowWind', 'v1.00.00', '27-Dec-2012')` [private]

Definition at line 6820 of file tempassembled.f90.

3.19.3.3 `integer inflowwind::unwind = 91` [private]

Definition at line 6854 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.20 inflowwind_subs Module Reference

Public Member Functions

- subroutine [getwindtype](#) (ParamData, ErrStat, ErrMsg)
- subroutine [inflowwind_linearizeperturbation](#) (ParamData, LinPerturbations, ErrStat)
- real(reki) function [inflowwind_adhack_dicheck](#) (ParamData, ErrStat)

3.20.1 Detailed Description

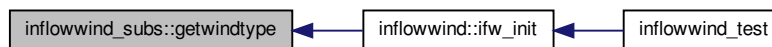
Definition at line 6141 of file tempassembled.f90.

3.20.2 Member Function/Subroutine Documentation

3.20.2.1 subroutine inflowwind_subs::getwindtype (type(ifw_parametertype), intent(inout) *ParamData*, integer(intki), intent(out) *ErrStat*, character(*), intent(out) *ErrMsg*)

Definition at line 6194 of file tempassembled.f90.

Here is the caller graph for this function:



3.20.2.2 real(reki) function inflowwind_subs::inflowwind_adhack_dicheck (type(ifw_parametertype), intent(inout) *ParamData*, integer, intent(out) *ErrStat*)

Definition at line 6472 of file tempassembled.f90.

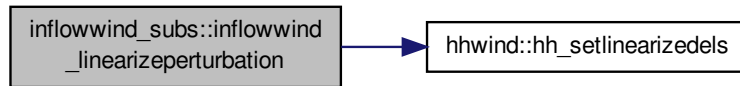
Here is the call graph for this function:



3.20.2.3 subroutine inflowwind_subs::inflowwind_linearizeperturbation (type(ifw_parametertype), intent(inout) *ParamData*, real(reki), dimension(7), intent(in) *LinPerturbations*, integer, intent(out) *ErrStat*)

Definition at line 6312 of file tempassembled.f90.

Here is the call graph for this function:



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

- [tempassembled.f90](#)

3.21 sharedinflowdefs Module Reference

Data Types

- type [ifw_constraintstatetype](#)
- type [ifw_continuousstatetype](#)
- type [ifw_discretestatetype](#)
- type [ifw_initinputtype](#)
- type [ifw_inputtype](#)
- type [ifw_otherstatetype](#)
- type [ifw_outputtype](#)
- type [ifw_parametertype](#)
- type [inflintrpout](#)

3.21.1 Detailed Description

Definition at line 12 of file [tempassembled.f90](#).

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

- [tempassembled.f90](#)

3.22 userwind Module Reference

Public Member Functions

- subroutine, public [usrwnd_init](#) (ErrStat)
- real(reki) function, public [usrwnd_getvalue](#) (VarName, ErrStat)
- type(inflintrpout) function, public [usrwnd_getwindspeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [usrwnd_terminate](#) (ErrStat)

Private Attributes

- logical, save `initialized` = .FALSE.
- real(reki) `uwmeanu`
- real(reki) `uwmeanv`
- real(reki) `uwmeanw`

3.22.1 Detailed Description

Definition at line 5944 of file tempassembled.f90.

3.22.2 Member Function/Subroutine Documentation

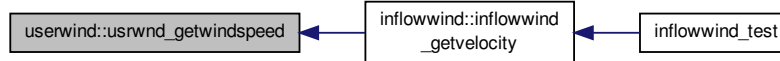
3.22.2.1 `real(reki)` function, public `userwind::usrwnd_getvalue (character(*), intent(in) VarName, integer, intent(out) ErrStat)`

Definition at line 6018 of file tempassembled.f90.

3.22.2.2 `type(inflintrpout)` function, public `userwind::usrwnd_getwindspeed (real(reki), intent(in) Time, real(reki), dimension(3), intent(in) InputPosition, integer, intent(out) ErrStat)`

Definition at line 6072 of file tempassembled.f90.

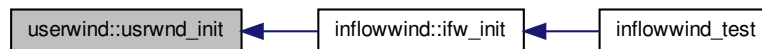
Here is the caller graph for this function:



3.22.2.3 subroutine, public `userwind::usrwnd_init (integer, intent(out) ErrStat)`

Definition at line 5974 of file tempassembled.f90.

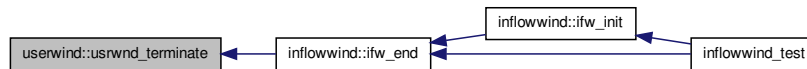
Here is the caller graph for this function:



3.22.2.4 subroutine, public `userwind::usrwnd_terminate (integer, intent(out) ErrStat)`

Definition at line 6113 of file tempassembled.f90.

Here is the caller graph for this function:



3.22.3 Member Data Documentation

3.22.3.1 logical, save userwind::initialized = .FALSE. [private]

Definition at line 5958 of file tempassembled.f90.

3.22.3.2 real(reki) userwind::uwmeanu [private]

Definition at line 5960 of file tempassembled.f90.

3.22.3.3 real(reki) userwind::uwmeanv [private]

Definition at line 5961 of file tempassembled.f90.

3.22.3.4 real(reki) userwind::uwmeanw [private]

Definition at line 5962 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.23 windfile_types Module Reference

Public Attributes

- integer, parameter [default_wind](#) = -1
- integer, parameter [undef_wind](#) = 0
- integer, parameter [hh_wind](#) = 1
- integer, parameter [ff_wind](#) = 2
- integer, parameter [ud_wind](#) = 3
- integer, parameter [fd_wind](#) = 4
- integer, parameter [ctp_wind](#) = 5
- integer, parameter [hawc_wind](#) = 6

3.23.1 Detailed Description

Definition at line 301 of file tempassembled.f90.

3.23.2 Member Data Documentation

3.23.2.1 integer, parameter `windfile_types::ctp_wind` = 5

Definition at line 337 of file `tempassembled.f90`.

3.23.2.2 integer, parameter `windfile_types::default_wind` = -1

Definition at line 331 of file `tempassembled.f90`.

3.23.2.3 integer, parameter `windfile_types::fd_wind` = 4

Definition at line 336 of file `tempassembled.f90`.

3.23.2.4 integer, parameter `windfile_types::ff_wind` = 2

Definition at line 334 of file `tempassembled.f90`.

3.23.2.5 integer, parameter `windfile_types::hawc_wind` = 6

Definition at line 338 of file `tempassembled.f90`.

3.23.2.6 integer, parameter `windfile_types::hh_wind` = 1

Definition at line 333 of file `tempassembled.f90`.

3.23.2.7 integer, parameter `windfile_types::ud_wind` = 3

Definition at line 335 of file `tempassembled.f90`.

3.23.2.8 integer, parameter `windfile_types::undef_wind` = 0

Definition at line 332 of file `tempassembled.f90`.

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

- [tempassembled.f90](#)

4 File Documentation

4.1 tempassembled.f90 File Reference

Data Types

- module [sharedinflowdefs](#)
- type [sharedinflowdefs::ifw_initinputtype](#)
- type [sharedinflowdefs::ifw_continuousstatetype](#)
- type [sharedinflowdefs::ifw_discretestatetype](#)
- type [sharedinflowdefs::ifw_constraintstatetype](#)
- type [sharedinflowdefs::ifw_otherstatetype](#)
- type [sharedinflowdefs::ifw_parametertype](#)
- type [sharedinflowdefs::ifw_inputtype](#)
- type [sharedinflowdefs::ifw_outputtype](#)
- type [sharedinflowdefs::inflintrpout](#)
- module [windfile_types](#)
- module [ctwind](#)

- type [ctwind::ctwindfiles](#)
- type [ctwind::ct_backgr](#)
- module [fdwind](#)
- module [ffwind](#)
- interface [ffwind::ff_getvalue](#)
- module [hawcwind](#)
- module [hhwind](#)
- type [hhwind::hh_info](#)
- module [userwind](#)
- module [inflowwind_subs](#)
- module [inflowwind](#)

Functions/Subroutines

- program [inflowwind_test](#)

4.1.1 Function/Subroutine Documentation

4.1.1.1 program [inflowwind_test](#) ()

Definition at line 7231 of file tempassembled.f90.

[illegible]

Index

advect
 fdwind, 17
advfiles
 fdwind, 17

coherentstr
 ctwind::ct_backgr, 2
ct_df_y
 ctwind, 7
ct_df_z
 ctwind, 7
ct_flag
 sharedinflowdefs::ifw_parametertype, 40
ct_getwindspeed
 ctwind, 4
ct_init
 ctwind, 4
ct_setrefval
 ctwind, 5
ct_terminate
 ctwind, 5
ct_zref
 ctwind, 7
ctbackgr
 ctwind::ctwindfiles, 10
ctdistsc
 ctwind, 8
ctext
 ctwind, 8
ctly
 ctwind, 8
ctlz
 ctwind, 8
ctoffset
 ctwind, 8
ctp_wind
 windfile_types, 49
ctscale
 ctwind, 8
ctscalelevel
 ctwind, 8
ctspath
 ctwind, 8
cttsfile
 ctwind::ctwindfiles, 10
ctvel_files
 ctwind, 8
ctvelu
 ctwind, 8
ctvelv
 ctwind, 8

ctvelw
 ctwind, 8
ctvertshft
 ctwind, 8
ctwind, 2
 ct_df_y, 7
 ct_df_z, 7
 ct_getwindspeed, 4
 ct_init, 4
 ct_setrefval, 5
 ct_terminate, 5
 ct_zref, 7
 ctdistsc, 8
 ctext, 8
 ctly, 8
 ctlz, 8
 ctoffset, 8
 ctscale, 8
 ctscalelevel, 8
 ctspath, 8
 ctvel_files, 8
 ctvelu, 8
 ctvelv, 8
 ctvelw, 8
 ctvertshft, 8
 ctwindunit, 8
 ctyhwid, 9
 ctymax, 9
 ctyt, 9
 ctzmax, 9
 delyctgrid, 9
 delzctgrid, 9
 indct_hi, 9
 indct_lo, 9
 invmtws, 9
 loadctdata, 6
 numcomps, 9
 numctt, 9
 numcty, 9
 numctyd, 9
 numctyd1, 9
 numctz, 10
 numctzd, 10
 numctzd1, 10
 readctdata, 6
 readctp, 6
 readctscscales, 7
 readctts, 7
 tdata, 10
 timeindx, 10
 timestpct, 10

ctwind::ct_backgr, 2
 coherentstr, 2
 windfile, 2
 windfiletype, 2
 ctwind::ctwindfiles, 10
 ctbackgr, 10
 cttsfile, 10
 ctwindunit
 ctwind, 8
 ctyhwid
 ctwind, 9
 ctymax
 ctwind, 9
 ctyt
 ctwind, 9
 ctzmax
 ctwind, 9

 dataformatid
 inflowwind, 45
 default_wind
 windfile_types, 50
 delta
 hhwind, 36
 deltaxinv
 hawcwind, 32
 deltaxinv
 hawcwind, 32
 deltazinv
 hawcwind, 32
 delxgrid
 fdwind, 17
 delyctgrid
 ctwind, 9
 delygrid
 fdwind, 17
 delzctgrid
 ctwind, 9
 delzgrid
 fdwind, 17
 dummyconstrstate
 sharedinflowdefs::ifw_constraintstatetype, 37
 dummycontstate
 sharedinflowdefs::ifw_continuousstatetype, 37
 dummydiscstate
 sharedinflowdefs::ifw_discretestatetype, 38
 dummyinput
 sharedinflowdefs::ifw_inputtype, 39
 dummyotherstate
 sharedinflowdefs::ifw_otherstatetype, 39
 dummyoutput
 sharedinflowdefs::ifw_outputtype, 40

 fd_df_x
 fdwind, 17

 fd_df_y
 fdwind, 17
 fd_df_z
 fdwind, 17
 fd_getvalue
 fdwind, 12
 fd_getwindspeed
 fdwind, 12
 fd_init
 fdwind, 13
 fd_terminate
 fdwind, 14
 fd_wind
 windfile_types, 50
 fdfileno
 fdwind, 17
 fdper
 fdwind, 17
 fdrecl
 fdwind, 17
 fdspath
 fdwind, 18
 fdtime
 fdwind, 18
 fdu
 fdwind, 18
 fdudata
 fdwind, 18
 fdunit
 fdwind, 18
 fdv
 fdwind, 18
 fdvdata
 fdwind, 18
 fdw
 fdwind, 18
 fdwdata
 fdwind, 18
 fdwind, 11
 advect, 17
 advfiles, 17
 delxgrid, 17
 delygrid, 17
 delzgrid, 17
 fd_df_x, 17
 fd_df_y, 17
 fd_df_z, 17
 fd_getvalue, 12
 fd_getwindspeed, 12
 fd_init, 13
 fd_terminate, 14
 fdfileno, 17
 fdper, 17
 fdrecl, 17

fdspath, 18
fdtime, 18
fdu, 18
fdudata, 18
fdunit, 18
fdv, 18
fdvdata, 18
fdw, 18
fdwdata, 18
ind4dadv, 18
ind4dnew, 18
ind4dold, 18
initialized, 18
load4ddata, 14
loadlesdata, 15
lx, 18
ly, 19
lz, 19
num4dt, 19
num4dtd, 19
num4dx, 19
num4dxd, 19
num4dxd1, 19
num4dy, 19
num4dyd, 19
num4dyd1, 19
num4dz, 19
num4dzd, 19
num4dzd1, 19
numadvect, 19
offsets, 20
prevtime, 20
read4ddata, 15
read4dtimes, 16
readall4ddata, 16
readfdp, 16
rotdiam, 20
scalevel, 20
scalfact, 20
shft4dnew, 20
t_4d_en, 20
t_4d_st, 20
times4d, 20
times4dix, 20
tm_max, 20
tsclfact, 20
vertshft, 20
xmax, 20
xt, 21
ymax, 21
yt, 21
zmax, 21
zref, 21
zt, 21

ff_getrvalue
 ffwind, 23
 ffwind::ff_getrvalue, 21
ff_getwindspeed
 ffwind, 23
ff_init
 ffwind, 24
ff_interp
 ffwind, 25
ff_terminate
 ffwind, 26
ff_wind
 windfile_types, 50
ffdata
 ffwind, 28
ffdtime
 ffwind, 28
ffrate
 ffwind, 28
fftower
 ffwind, 28
ffwind, 22
 ff_getrvalue, 23
 ff_getwindspeed, 23
 ff_init, 24
 ff_interp, 25
 ff_terminate, 26
 ffdata, 28
 ffdtime, 28
 ffrate, 28
 fftower, 28
 ffyhwid, 28
 ffzhwid, 28
 gridbase, 28
 initialized, 28
 initxposition, 28
 invffyd, 28
 invffzd, 28
 invmffws, 28
 meanffws, 29
 nffcomp, 29
 nffsteps, 29
 ntgrids, 29
 nygrids, 29
 nzgrids, 29
 periodic, 29
 read_bladed_ff_header0, 26
 read_bladed_ff_header1, 26
 read_bladed_grids, 26
 read_ff_tower, 27
 read_summary_ff, 27
 read_turbsim_ff, 27
 refht, 29
 totaltime, 29

- ffwind::ff_getvalue, 21
 - ff_getrvalue, 21
- ffyhwid
 - ffwind, 28
- ffzhwid
 - ffwind, 28
- getwindtype
 - inflowwind_subs, 46
- gridbase
 - ffwind, 28
 - hawcwind, 32
- halfwidth
 - sharedinflowdefs::ifw_parametertype, 40
- hawc_wind
 - windfile_types, 50
- hawcwind, 29
 - deltaxinv, 32
 - deltayinv, 32
 - deltazinv, 32
 - gridbase, 32
 - hw_getvalue, 30
 - hw_getwindspeed, 30
 - hw_init, 31
 - hw_linearinterp, 31
 - hw_terminate, 31
 - initialized, 32
 - lengthx, 32
 - lengthyhalf, 32
 - nc, 32
 - nx, 32
 - ny, 32
 - nz, 32
 - refht, 33
 - uref, 33
 - winddata, 33
- hh_get_adhack_windspeed
 - hhwind, 34
- hh_getwindspeed
 - hhwind, 34
- hh_init
 - hhwind, 35
- hh_setlinearizedels
 - hhwind, 35
- hh_terminate
 - hhwind, 35
- hh_wind
 - windfile_types, 50
- hhwind, 33
 - delta, 36
 - hh_get_adhack_windspeed, 34
 - hh_getwindspeed, 34
 - hh_init, 35
 - hh_setlinearizedels, 35
 - hh_terminate, 35
 - hshr, 36
 - linearize, 36
 - linearizedels, 36
 - numdatalines, 36
 - refht, 36
 - refwid, 36
 - tdata, 36
 - timeindx, 36
 - v, 36
 - vgust, 36
 - vlinshr, 36
 - vshr, 37
 - vz, 37
- hhwind::hh_info, 33
 - referenceheight, 33
 - width, 33
- hshr
 - hhwind, 36
- hw_getvalue
 - hawcwind, 30
- hw_getwindspeed
 - hawcwind, 30
- hw_init
 - hawcwind, 31
- hw_linearinterp
 - hawcwind, 31
- hw_terminate
 - hawcwind, 31
- ifw_end
 - inflowwind, 42
- ifw_init
 - inflowwind, 43
- ifw_progdesc
 - inflowwind, 45
- ind4dadv
 - fdwind, 18
- ind4dnew
 - fdwind, 18
- ind4dold
 - fdwind, 18
- indct_hi
 - ctwind, 9
- indct_lo
 - ctwind, 9
- inflowwind, 41
 - dataformatid, 45
 - ifw_end, 42
 - ifw_init, 43
 - ifw_progdesc, 45
 - inflowwind_getvelocity, 45
 - unwind, 45
- inflowwind_adhack_dicheck

inflowwind_subs, 46
inflowwind_getvelocity
 inflowwind, 45
inflowwind_linearizeperturbation
 inflowwind_subs, 46
inflowwind_subs, 46
 getwindtype, 46
 inflowwind_adhack_dicheck, 46
 inflowwind_linearizeperturbation, 46
inflowwind_test
 tempassembled.f90, 51
initialized
 fdwind, 18
 ffwind, 28
 hawcwind, 32
 sharedinflowdefs::ifw_parametertype, 40
 userwind, 49
initxposition
 ffwind, 28
invffyd
 ffwind, 28
invffzd
 ffwind, 28
invmctws
 ctwind, 9
invmffws
 ffwind, 28

lengthx
 hawcwind, 32
lengthyhalf
 hawcwind, 32
linearize
 hhwind, 36
linearizedels
 hhwind, 36
load4ddata
 fdwind, 14
loadctdata
 ctwind, 6
loadlesdata
 fdwind, 15
lx
 fdwind, 18
ly
 fdwind, 19
lz
 fdwind, 19

meanffws
 ffwind, 29
nc
 hawcwind, 32
nffcomp
 ffwind, 29
nffsteps
 ffwind, 29
ntgrids
 ffwind, 29
num4dt
 fdwind, 19
num4dtd
 fdwind, 19
num4dx
 fdwind, 19
num4dxd
 fdwind, 19
num4dxd1
 fdwind, 19
num4dy
 fdwind, 19
num4dyd
 fdwind, 19
num4dyd1
 fdwind, 19
num4dz
 fdwind, 19
num4dzd
 fdwind, 19
num4dzd1
 fdwind, 19
numadvect
 fdwind, 19
numcomps
 ctwind, 9
numctt
 ctwind, 9
numcty
 ctwind, 9
numctyd
 ctwind, 9
numctyd1
 ctwind, 9
numctz
 ctwind, 10
numctzd
 ctwind, 10
numctzd1
 ctwind, 10
numdatalines
 hhwind, 36
nx
 hawcwind, 32
ny
 hawcwind, 32
nygrids
 ffwind, 29
nz

- hawcwind, 32
- nzgrids
 - ffwind, 29
- offsets
 - fdwind, 20
- periodic
 - ffwind, 29
- prevtime
 - fdwind, 20
- read4ddata
 - fdwind, 15
- read4dtimes
 - fdwind, 16
- read_bladed_ff_header0
 - ffwind, 26
- read_bladed_ff_header1
 - ffwind, 26
- read_bladed_grids
 - ffwind, 26
- read_ff_tower
 - ffwind, 27
- read_summary_ff
 - ffwind, 27
- read_turbsim_ff
 - ffwind, 27
- readall4ddata
 - fdwind, 16
- readctdata
 - ctwind, 6
- readctp
 - ctwind, 6
- readctscale
 - ctwind, 7
- readctts
 - ctwind, 7
- readfdp
 - fdwind, 16
- referenceheight
 - hhwind::hh_info, 33
 - sharedinflowdefs::ifw_initinputtype, 38
 - sharedinflowdefs::ifw_parametertype, 40
- refht
 - ffwind, 29
 - hawcwind, 33
 - hhwind, 36
- refwid
 - hhwind, 36
- rotdiam
 - fdwind, 20
- scalelevel
 - fdwind, 20
- scalfact
 - fdwind, 20
- sharedinflowdefs, 47
 - sharedinflowdefs::ifw_constraintstatetype, 37
 - dummyconstrstate, 37
 - sharedinflowdefs::ifw_continuousstatetype, 37
 - dummycontstate, 37
 - sharedinflowdefs::ifw_discretestatetype, 38
 - dummydiscstate, 38
 - sharedinflowdefs::ifw_initinputtype, 38
 - referenceheight, 38
 - width, 38
 - windfilename, 38
 - windfiletype, 38
 - sharedinflowdefs::ifw_inputtype, 39
 - dummyinput, 39
 - sharedinflowdefs::ifw_otherstatetype, 39
 - dummyotherstate, 39
 - sharedinflowdefs::ifw_outputtype, 40
 - dummyoutput, 40
 - sharedinflowdefs::ifw_parametertype, 40
 - ct_flag, 40
 - halfwidth, 40
 - initialized, 40
 - referenceheight, 40
 - width, 41
 - windfilename, 41
 - windfilenameext, 41
 - windfilenameroot, 41
 - windfiletype, 41
 - sharedinflowdefs::inflintrpout, 41
 - velocity, 41
- shft4dnew
 - fdwind, 20
- t_4d_en
 - fdwind, 20
- t_4d_st
 - fdwind, 20
- tdata
 - ctwind, 10
 - hhwind, 36
- tempassembled.f90, 50
 - inflowwind_test, 51
- timeindx
 - ctwind, 10
 - hhwind, 36
- times4d
 - fdwind, 20
- times4dix
 - fdwind, 20
- timestpct
 - ctwind, 10
- tm_max

- fdwind, 20
- totaltime
 - ffwind, 29
- tsclfact
 - fdwind, 20
- ud_wind
 - windfile_types, 50
- undef_wind
 - windfile_types, 50
- unwind
 - inflowwind, 45
- uref
 - hawcwind, 33
- userwind, 47
 - initialized, 49
 - usrwnd_getvalue, 48
 - usrwnd_getwindspeed, 48
 - usrwnd_init, 48
 - usrwnd_terminate, 48
 - uwmeanu, 49
 - uwmeanv, 49
 - uwmeanw, 49
- usrwnd_getvalue
 - userwind, 48
- usrwnd_getwindspeed
 - userwind, 48
- usrwnd_init
 - userwind, 48
- usrwnd_terminate
 - userwind, 48
- uwmeanu
 - userwind, 49
- uwmeanv
 - userwind, 49
- uwmeanw
 - userwind, 49
- v
 - hhwind, 36
- velocity
 - sharedinflowdefs::inflintrpout, 41
- vertshft
 - fdwind, 20
- vgust
 - hhwind, 36
- vlinshr
 - hhwind, 36
- vshr
 - hhwind, 37
- vz
 - hhwind, 37
- width
 - hhwind::hh_info, 33
- sharedinflowdefs::ifw_initinputtype, 38
- sharedinflowdefs::ifw_parametertype, 41
- winddata
 - hawcwind, 33
- windfile
 - ctwind::ct_backgr, 2
- windfile_types, 49
 - ctp_wind, 49
 - default_wind, 50
 - fd_wind, 50
 - ff_wind, 50
 - hawc_wind, 50
 - hh_wind, 50
 - ud_wind, 50
 - undef_wind, 50
- windfilename
 - sharedinflowdefs::ifw_initinputtype, 38
 - sharedinflowdefs::ifw_parametertype, 41
- windfilenameext
 - sharedinflowdefs::ifw_parametertype, 41
- windfilenameroot
 - sharedinflowdefs::ifw_parametertype, 41
- windfiletype
 - ctwind::ct_backgr, 2
 - sharedinflowdefs::ifw_initinputtype, 38
 - sharedinflowdefs::ifw_parametertype, 41
- xmax
 - fdwind, 20
- xt
 - fdwind, 21
- ymin
 - fdwind, 21
- yt
 - fdwind, 21
- zmax
 - fdwind, 21
- zref
 - fdwind, 21
- zt
 - fdwind, 21