InflowWind

Revision: 13 (last commit)

Generated by Doxygen 1.8.1.2

Wed Dec 12 2012 10:49:57

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1.1 Data Types List

Here are the data types with brief descriptions:

2 File Index

2.1 File List

Here is a list of all files with brief descriptions:

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 209 of file tempassembled.f90.

3.1.2 Member Data Documentation

3.1.2.1 logical ctwind::ct_backgr::coherentstr

Definition at line 212 of file tempassembled.f90.

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

Definition at line 210 of file tempassembled.f90.

3.1.2.3 integer ctwind::ct_backgr::windfiletype

Definition at line 211 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 readcts (UnWind, FileName, CT_SC_ext, ErrStat)
- subroutine readctscales (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) ctscalevel

- real(reki), dimension(:), allocatable tdata
- real(reki) ct_zref
- real(reki) ctyhwid
- real(reki) ctymax
- real(reki) ctyt
- real(reki) ctzmax
- real(reki) invmctws
- 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

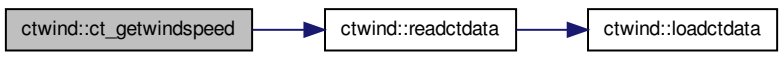
Definition at line 132 of file tempassembled.f90.

3.2.2 Member Function/Subroutine Documentation

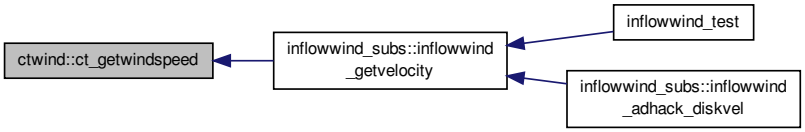
3.2.2.1 type(inflintrpout) function, public ctwind::ct_getwindspeed (real(reki), intent(in) *Time,* real(reki), dimension(3), intent(in) *InputPosition,* integer, intent(out) *ErrStat*)

Definition at line 428 of file tempassembled.f90.

Here is the call graph for this function:



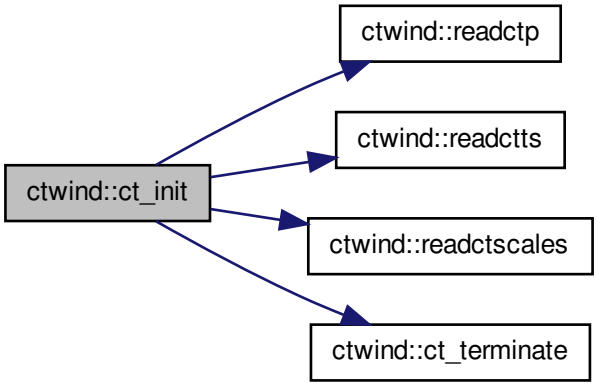
Here is the caller graph for this function:



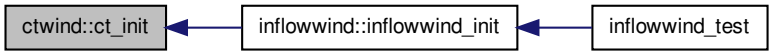
3.2.2.2 subroutine, public ctwind::ct_init (integer, intent(in) *UnWind,* character(∗), intent(in) *WindFile,* type(ct_backgr), intent(out) *BackGrndValues,* integer, intent(out) *ErrStat*)

Definition at line 223 of file tempassembled.f90.

Here is the call graph for this function:



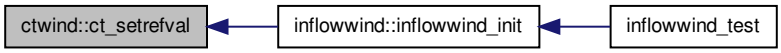
Here is the caller graph for this function:



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 374 of file tempassembled.f90.

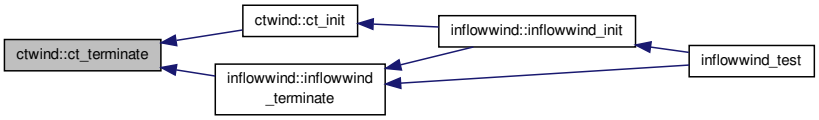
Here is the caller graph for this function:



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

Definition at line 1108 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 758 of file tempassembled.f90.

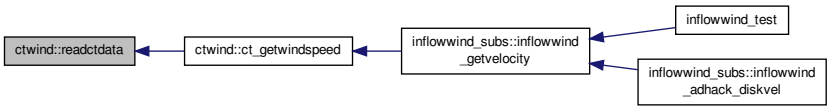
Here is the caller graph for this function:

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 705 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 826 of file tempassembled.f90.

Here is the caller graph for this function:

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

Definition at line 1048 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 906 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 179 of file tempassembled.f90.

3.2.3.2 integer ctwind::ct_df_z [private]

Definition at line 180 of file tempassembled.f90.

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

Definition at line 172 of file tempassembled.f90.

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

Definition at line 159 of file tempassembled.f90.

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

Definition at line 200 of file tempassembled.f90.

3.2.3.6 real(reki) ctwind::ctly [private]

Definition at line 167 of file tempassembled.f90.

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

Definition at line 168 of file tempassembled.f90.

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

Definition at line 160 of file tempassembled.f90.

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

Definition at line 161 of file tempassembled.f90.

3.2.3.10 real(reki) ctwind::ctscalevel [private]

Definition at line 169 of file tempassembled.f90.

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

Definition at line 201 of file tempassembled.f90.

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

Definition at line 181 of file tempassembled.f90.

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

Definition at line 164 of file tempassembled.f90.

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

Definition at line 165 of file tempassembled.f90.

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

Definition at line 166 of file tempassembled.f90.

3.2.3.16 logical ctwind::ctvertshft [private]

Definition at line 198 of file tempassembled.f90.

3.2.3.17 integer ctwind::ctwindunit [private]

Definition at line 196 of file tempassembled.f90.

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

Definition at line 173 of file tempassembled.f90.

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

Definition at line 174 of file tempassembled.f90.

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

Definition at line 175 of file tempassembled.f90.

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

Definition at line 176 of file tempassembled.f90.

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

Definition at line 157 of file tempassembled.f90.

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

Definition at line 158 of file tempassembled.f90.

3.2.3.24 integer ctwind::indct_hi [private]

Definition at line 183 of file tempassembled.f90.

3.2.3.25 integer ctwind::indct_lo [private]

Definition at line 184 of file tempassembled.f90.

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

Definition at line 177 of file tempassembled.f90.

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

Definition at line 154 of file tempassembled.f90.

3.2.3.28 integer ctwind::numctt [private]

Definition at line 186 of file tempassembled.f90.

3.2.3.29 integer ctwind::numcty [private]

Definition at line 187 of file tempassembled.f90.

3.2.3.30 integer ctwind::numctyd [private]

Definition at line 188 of file tempassembled.f90.

3.2.3.31 integer ctwind::numctyd1 [private]

Definition at line 189 of file tempassembled.f90.

3.2.3.32 integer ctwind::numctz [private]

Definition at line 190 of file tempassembled.f90.

3.2.3.33 integer ctwind::numctzd [private]

Definition at line 191 of file tempassembled.f90.

3.2.3.34 integer ctwind::numctzd1 [private]

Definition at line 192 of file tempassembled.f90.

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

Definition at line 170 of file tempassembled.f90.

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

Definition at line 193 of file tempassembled.f90.

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

Definition at line 194 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 203 of file tempassembled.f90.

3.3.2 Member Data Documentation

3.3.2.1 character(1024) ctwind::ctwindfiles::ctbackgr [private]

Definition at line 205 of file tempassembled.f90.

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

Definition at line 204 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) scalevel
- 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

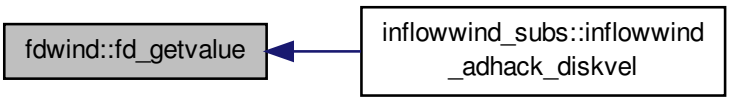
Definition at line 1130 of file tempassembled.f90.

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 1989 of file tempassembled.f90.

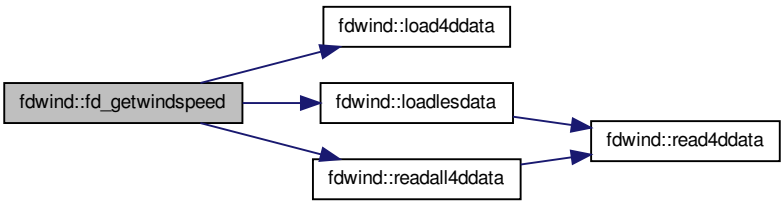
Here is the caller graph for this function:



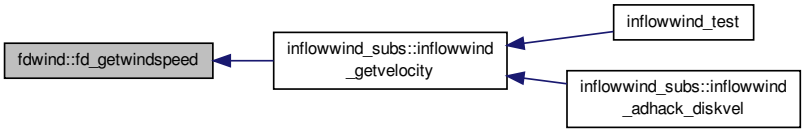
3.4.2.2 type(inflintrpout) function, public fdwind::fd_getwindspeed (real(reki), intent(in) *Time,* real(reki), dimension(3), intent(in) *InputPosition,* integer, intent(out) *ErrStat*)

Definition at line 2035 of file tempassembled.f90.

Here is the call graph for this function:



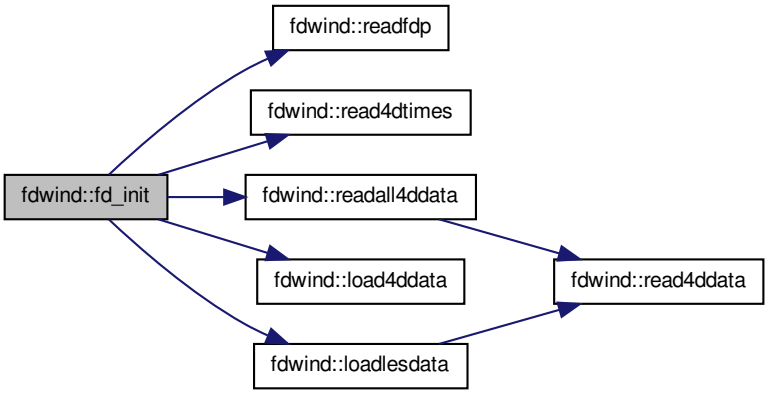
Here is the caller graph for this function:



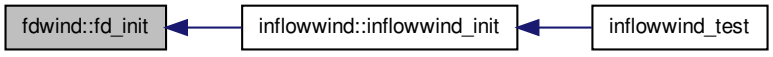
3.4.2.3 subroutine, public fdwind::fd_init (integer, intent(in) *UnWind,* character(∗), intent(in) *WindFile,* real(reki), intent(in) *RefHt,* integer, intent(out) *ErrStat*)

Definition at line 1222 of file tempassembled.f90.

Here is the call graph for this function:



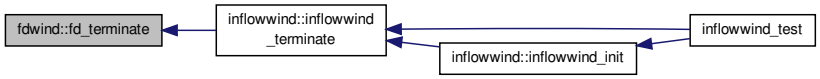
Here is the caller graph for this function:



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

Definition at line 2367 of file tempassembled.f90.

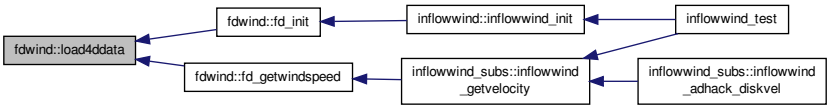
Here is the caller graph for this function:



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

Definition at line 1962 of file tempassembled.f90.

Here is the caller graph for this function:

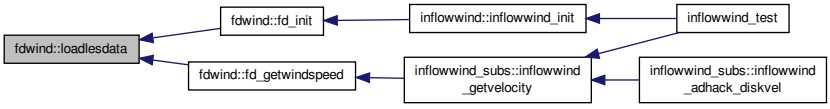


3.4.2.6 subroutine fdwind::loadlesdata (integer, intent(in) *UnWind,* integer, intent(in) *FileNo,* integer, intent(in) *Indx,* integer, intent(out) *ErrStat*) [private]

Definition at line 1840 of file tempassembled.f90.

Here is the call graph for this function:

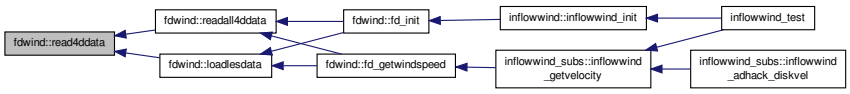
Here is the caller graph for this function:



3.4.2.7 subroutine fdwind::read4ddata (integer, intent(in) *UnWind,* character(∗), intent(in) *FileName,* real(reki), dimension (:,:,:,:), intent(inout) *Comp,* integer, intent(in) *Indx4,* real(reki), intent(in) *Scale,* real(reki), intent(in) *Offset,* integer, intent(out) *ErrStat*) [private]

Definition at line 1877 of file tempassembled.f90.

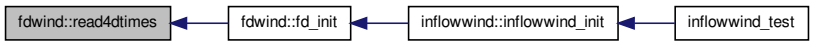
Here is the caller graph for this function:



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

Definition at line 1726 of file tempassembled.f90.

Here is the caller graph for this function:

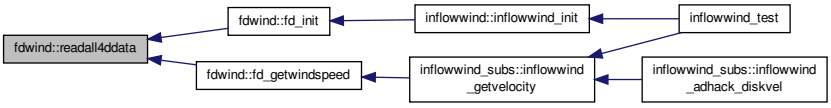


3.4.2.9 subroutine fdwind::readall4ddata (integer, intent(in) *UnWind,* integer, intent(out) *ErrStat*) [private]

Definition at line 1805 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 1465 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 1205 of file tempassembled.f90.

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

Definition at line 1210 of file tempassembled.f90.

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

Definition at line 1148 of file tempassembled.f90.

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

Definition at line 1149 of file tempassembled.f90.

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

Definition at line 1150 of file tempassembled.f90.

3.4.3.6 integer fdwind::fd_df_x [private]

Definition at line 1180 of file tempassembled.f90.

3.4.3.7 integer fdwind::fd_df_y [private]

Definition at line 1181 of file tempassembled.f90.

3.4.3.8 integer fdwind::fd_df_z [private]

Definition at line 1182 of file tempassembled.f90.

3.4.3.9 integer fdwind::fdfileno [private]

Definition at line 1183 of file tempassembled.f90.

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

Definition at line 1151 of file tempassembled.f90.

3.4.3.11 integer fdwind::fdrecl [private]

Definition at line 1184 of file tempassembled.f90.

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

Definition at line 1211 of file tempassembled.f90.

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

Definition at line 1152 of file tempassembled.f90.

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

Definition at line 1153 of file tempassembled.f90.

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

Definition at line 1156 of file tempassembled.f90.

3.4.3.16 integer fdwind::fdunit [private]

Definition at line 1203 of file tempassembled.f90.

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

Definition at line 1154 of file tempassembled.f90.

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

Definition at line 1157 of file tempassembled.f90.

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

Definition at line 1155 of file tempassembled.f90.

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

Definition at line 1158 of file tempassembled.f90.

3.4.3.21 integer fdwind::ind4dadv [private]

Definition at line 1185 of file tempassembled.f90.

3.4.3.22 integer fdwind::ind4dnew [private]

Definition at line 1186 of file tempassembled.f90.

3.4.3.23 integer fdwind::ind4dold [private]

Definition at line 1187 of file tempassembled.f90.

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

Definition at line 1208 of file tempassembled.f90.

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

Definition at line 1159 of file tempassembled.f90.

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

Definition at line 1160 of file tempassembled.f90.

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

Definition at line 1161 of file tempassembled.f90.

3.4.3.28 integer fdwind::num4dt [private]

Definition at line 1188 of file tempassembled.f90.

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

Definition at line 1189 of file tempassembled.f90.

3.4.3.30 integer fdwind::num4dx [private]

Definition at line 1190 of file tempassembled.f90.

3.4.3.31 integer fdwind::num4dxd [private]

Definition at line 1191 of file tempassembled.f90.

3.4.3.32 integer fdwind::num4dxd1 [private]

Definition at line 1192 of file tempassembled.f90.

3.4.3.33 integer fdwind::num4dy [private]

Definition at line 1193 of file tempassembled.f90.

3.4.3.34 integer fdwind::num4dyd [private]

Definition at line 1194 of file tempassembled.f90.

3.4.3.35 integer fdwind::num4dyd1 [private]

Definition at line 1195 of file tempassembled.f90.

3.4.3.36 integer fdwind::num4dz [private]

Definition at line 1196 of file tempassembled.f90.

3.4.3.37 integer fdwind::num4dzd [private]

Definition at line 1197 of file tempassembled.f90.

3.4.3.38 integer fdwind::num4dzd1 [private]

Definition at line 1198 of file tempassembled.f90.

3.4.3.39 integer fdwind::numadvect [private]

Definition at line 1199 of file tempassembled.f90.

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

Definition at line 1162 of file tempassembled.f90.

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

Definition at line 1163 of file tempassembled.f90.

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

Definition at line 1164 of file tempassembled.f90.

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

Definition at line 1166 of file tempassembled.f90.

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

Definition at line 1165 of file tempassembled.f90.

3.4.3.45 integer fdwind::shft4dnew [private]

Definition at line 1200 of file tempassembled.f90.

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

Definition at line 1170 of file tempassembled.f90.

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

Definition at line 1171 of file tempassembled.f90.

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

Definition at line 1167 of file tempassembled.f90.

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

Definition at line 1201 of file tempassembled.f90.

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

Definition at line 1168 of file tempassembled.f90.

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

Definition at line 1169 of file tempassembled.f90.

3.4.3.52 logical fdwind::vertshft [private]

Definition at line 1206 of file tempassembled.f90.

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

Definition at line 1172 of file tempassembled.f90.

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

Definition at line 1173 of file tempassembled.f90.

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

Definition at line 1174 of file tempassembled.f90.

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

Definition at line 1175 of file tempassembled.f90.

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

Definition at line 1176 of file tempassembled.f90.

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

Definition at line 1178 of file tempassembled.f90.

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

Definition at line 1177 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_getrvalue (RVarName, ErrStat)

3.5.1 Detailed Description

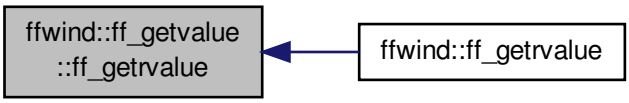
Definition at line 2441 of file tempassembled.f90.

3.5.2 Member Function/Subroutine Documentation

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

Definition at line 3996 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_getrvalue (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) ffdtime
- 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

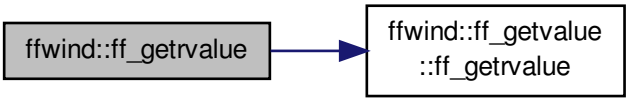
Definition at line 2393 of file tempassembled.f90.

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 3996 of file tempassembled.f90.

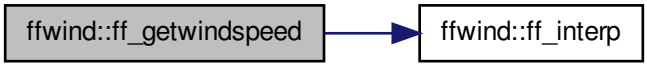
Here is the call graph for this function:



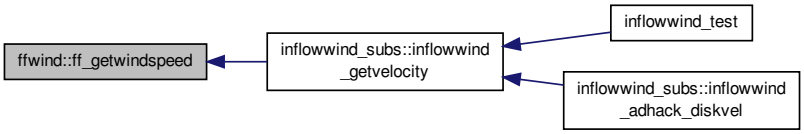
3.6.2.2 type(inflintrpout) function, public ffwind::ff_getwindspeed (real(reki), intent(in) *Time,* real(reki), dimension(3), intent(in) *InputPosition,* integer, intent(out) *ErrStat*)

Definition at line 4051 of file tempassembled.f90.

Here is the call graph for this function:



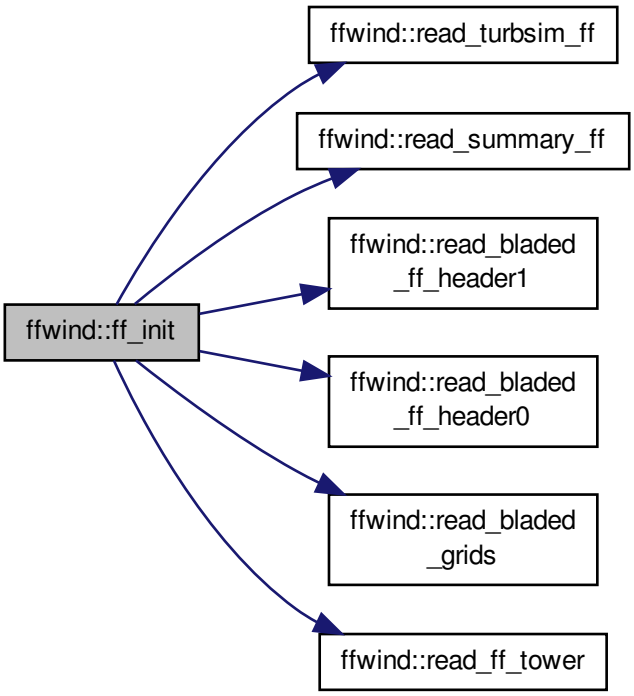
Here is the caller graph for this function:



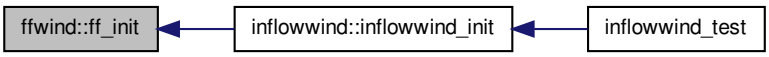
3.6.2.3 subroutine, public ffwind::ff_init (integer, intent(in) *UnWind,* character(∗), intent(in) *BinFile,* integer, intent(out) *ErrStat*)

Definition at line 2453 of file tempassembled.f90.

Here is the call graph for this function:



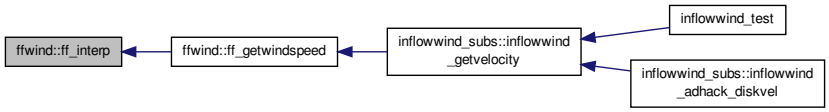
Here is the caller graph for this function:



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 4113 of file tempassembled.f90.

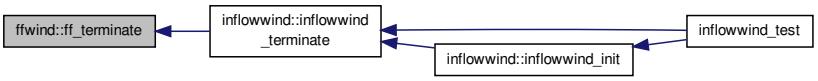
Here is the caller graph for this function:



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

Definition at line 4414 of file tempassembled.f90.

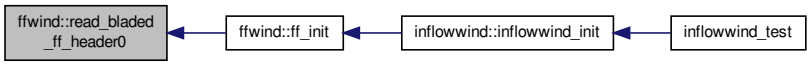
Here is the caller graph for this function:



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

Definition at line 2633 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) *TI,* integer, intent(out) *ErrStat*) [private]

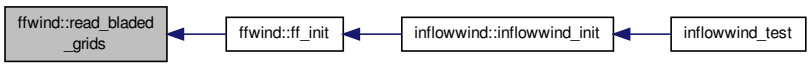
Definition at line 2773 of file tempassembled.f90.

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 3113 of file tempassembled.f90.

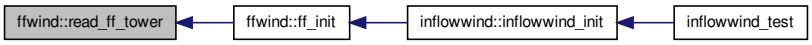
Here is the caller graph for this function:



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 3791 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 3251 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 3485 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 2415 of file tempassembled.f90.

3.6.3.2 real(reki) ffwind::ffdtime [private]

Definition at line 2418 of file tempassembled.f90.

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

Definition at line 2419 of file tempassembled.f90.

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

Definition at line 2416 of file tempassembled.f90.

3.6.3.5 real(reki) ffwind::ffyhwid [private]

Definition at line 2420 of file tempassembled.f90.

3.6.3.6 real(reki) ffwind::ffzhwid [private]

Definition at line 2421 of file tempassembled.f90.

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

Definition at line 2423 of file tempassembled.f90.

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

Definition at line 2437 of file tempassembled.f90.

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

Definition at line 2424 of file tempassembled.f90.

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

Definition at line 2425 of file tempassembled.f90.

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

Definition at line 2426 of file tempassembled.f90.

3.6.3.12 real(reki) ffwind::invmffws [private]

Definition at line 2427 of file tempassembled.f90.

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

Definition at line 2428 of file tempassembled.f90.

3.6.3.14 integer ffwind::nffcomp [private]

Definition at line 2431 of file tempassembled.f90.

3.6.3.15 integer ffwind::nffsteps [private]

Definition at line 2432 of file tempassembled.f90.

3.6.3.16 integer ffwind::ntgrids [private]

Definition at line 2435 of file tempassembled.f90.

3.6.3.17 integer ffwind::nygrids [private]

Definition at line 2433 of file tempassembled.f90.

3.6.3.18 integer ffwind::nzgrids [private]

Definition at line 2434 of file tempassembled.f90.

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

Definition at line 2438 of file tempassembled.f90.

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

Definition at line 2422 of file tempassembled.f90.

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

Definition at line 2429 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(inflintrpout) 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

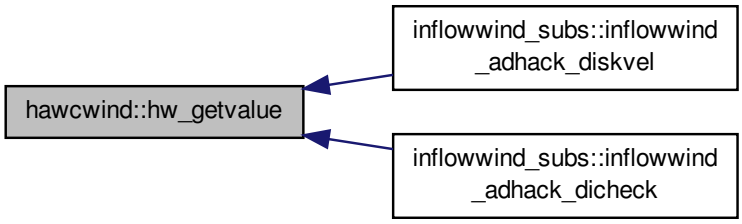
Definition at line 4433 of file tempassembled.f90.

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 4802 of file tempassembled.f90.

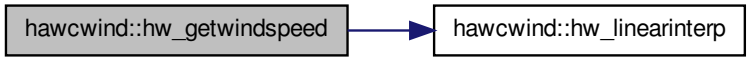
Here is the caller graph for this function:



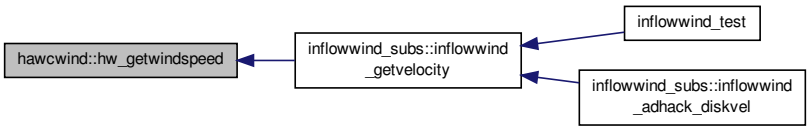
3.7.2.2 type(inflintrpout) function, public hawcwind::hw_getwindspeed (real(reki), intent(in) *Time,* real(reki), dimension(3), intent(in) *InputPosition,* integer, intent(out) *ErrStat*)

Definition at line 4857 of file tempassembled.f90.

Here is the call graph for this function:



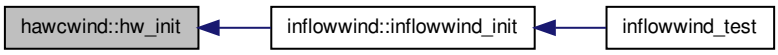
Here is the caller graph for this function:



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

Definition at line 4481 of file tempassembled.f90.

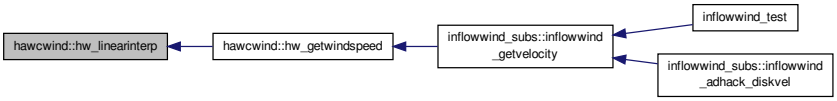
Here is the caller graph for this function:



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 4891 of file tempassembled.f90.

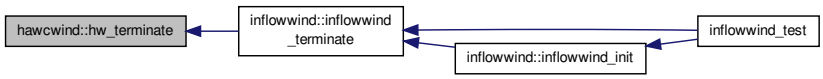
Here is the caller graph for this function:



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

Definition at line 5096 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 4455 of file tempassembled.f90.

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

Definition at line 4456 of file tempassembled.f90.

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

Definition at line 4457 of file tempassembled.f90.

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

Definition at line 4464 of file tempassembled.f90.

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

Definition at line 4471 of file tempassembled.f90.

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

Definition at line 4465 of file tempassembled.f90.

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

Definition at line 4466 of file tempassembled.f90.

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

Definition at line 4459 of file tempassembled.f90.

3.7.3.9 integer hawcwind::nx [private]

Definition at line 4460 of file tempassembled.f90.

3.7.3.10 integer hawcwind::ny [private]

Definition at line 4461 of file tempassembled.f90.

3.7.3.11 integer hawcwind::nz [private]

Definition at line 4462 of file tempassembled.f90.

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

Definition at line 4467 of file tempassembled.f90.

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

Definition at line 4468 of file tempassembled.f90.

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

Definition at line 4453 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 5162 of file tempassembled.f90.

3.8.2 Member Data Documentation

3.8.2.1 real(reki) hhwind::hh_info::referenceheight

Definition at line 5163 of file tempassembled.f90.

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

Definition at line 5164 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

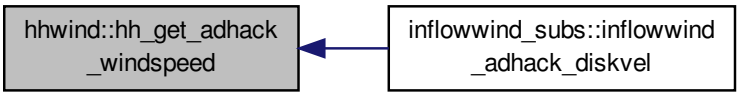
Definition at line 5113 of file tempassembled.f90.

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 5573 of file tempassembled.f90.

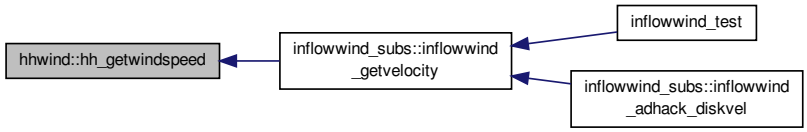
Here is the caller graph for this function:



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 5442 of file tempassembled.f90.

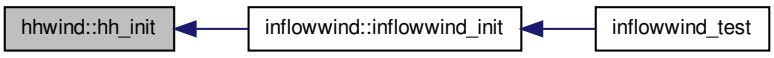
Here is the caller graph for this function:



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 5175 of file tempassembled.f90.

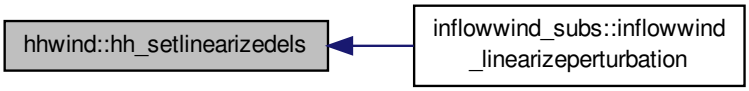
Here is the caller graph for this function:



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

Definition at line 5666 of file tempassembled.f90.

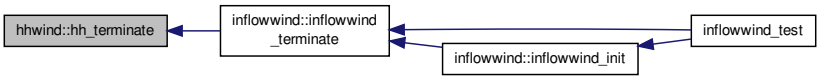
Here is the caller graph for this function:



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

Definition at line 5692 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 5145 of file tempassembled.f90.

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

Definition at line 5148 of file tempassembled.f90.

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

Definition at line 5160 of file tempassembled.f90.

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

Definition at line 5153 of file tempassembled.f90.

3.9.3.5 integer hhwind::numdatalines [private]

Definition at line 5157 of file tempassembled.f90.

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

Definition at line 5154 of file tempassembled.f90.

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

Definition at line 5155 of file tempassembled.f90.

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

Definition at line 5144 of file tempassembled.f90.

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

Definition at line 5158 of file tempassembled.f90.

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

Definition at line 5146 of file tempassembled.f90.

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

Definition at line 5151 of file tempassembled.f90.

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

Definition at line 5150 of file tempassembled.f90.

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

Definition at line 5149 of file tempassembled.f90.

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

Definition at line 5147 of file tempassembled.f90.

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

- tempassembled.f90

3.10 inflowwind::inflinitinfo Type Reference

Public Attributes

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

3.10.1 Detailed Description

Definition at line 6629 of file tempassembled.f90.

3.10.2 Member Data Documentation

3.10.2.1 real(reki) inflowwind::inflinitinfo::referenceheight

Definition at line 6632 of file tempassembled.f90.

3.10.2.2 real(reki) inflowwind::inflinitinfo::width

Definition at line 6633 of file tempassembled.f90.

3.10.2.3 character(1024) inflowwind::inflinitinfo::windfilename

Definition at line 6630 of file tempassembled.f90.

3.10.2.4 integer inflowwind::inflinitinfo::windfiletype

Definition at line 6631 of file tempassembled.f90.

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

- tempassembled.f90

3.11 sharedinflowdefs::inflintrpout Type Reference

Public Attributes

- real(reki), dimension(3) velocity

3.11.1 Detailed Description

Definition at line 107 of file tempassembled.f90.

3.11.2 Member Data Documentation

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

Definition at line 108 of file tempassembled.f90.

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

- tempassembled.f90

3.12 inflowwind Module Reference

Data Types

- type inflinitinfo

Public Member Functions

- subroutine, public inflowwind_init (FileInfo, ErrStat)
- subroutine, public inflowwind_terminate (ErrStat)

Public Attributes

- character(99), parameter inflowwindver = 'InflowWind (v1.01.00b-bjj, 10-Aug-2012)'

Private Attributes

- integer unwind = 91

3.12.1 Detailed Description

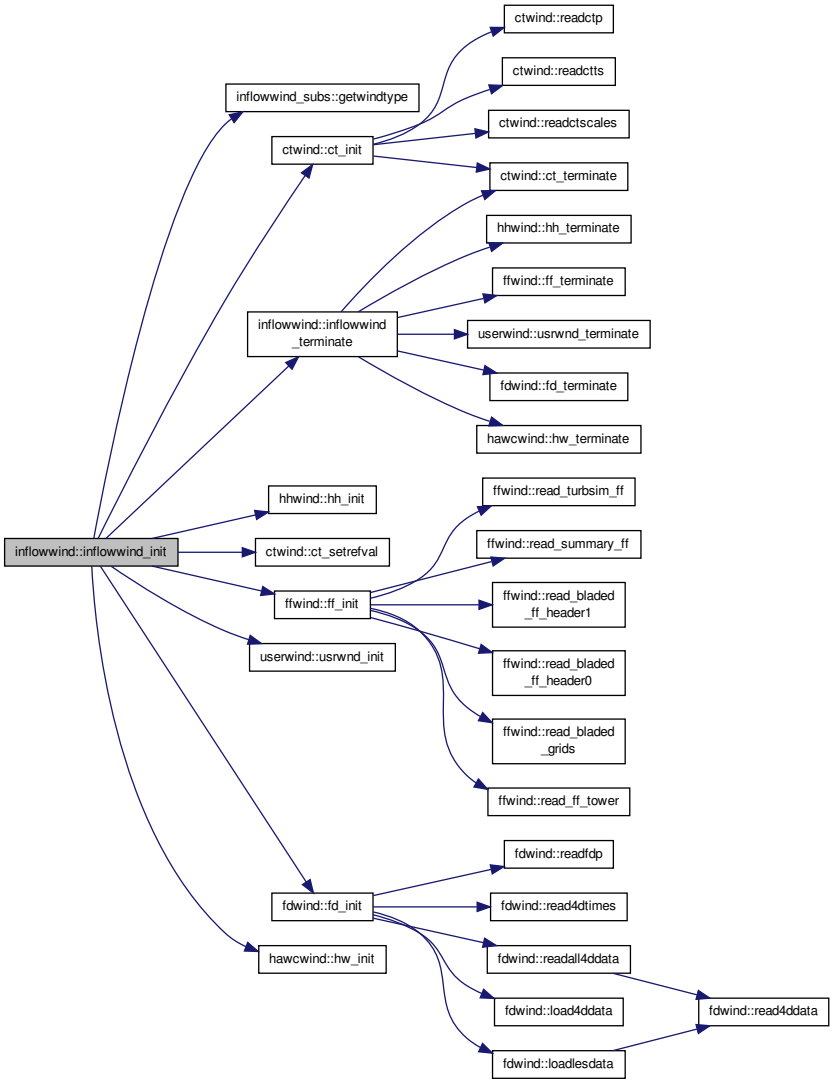
Definition at line 6576 of file tempassembled.f90.

3.12.2 Member Function/Subroutine Documentation

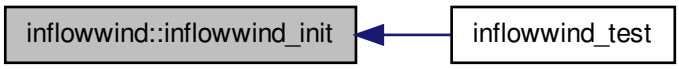
3.12.2.1 subroutine, public inflowwind::inflowwind_init (type(inflinitinfo), intent(in) *FileInfo,* integer, intent(out) *ErrStat*)

Definition at line 6660 of file tempassembled.f90.

Here is the call graph for this function:



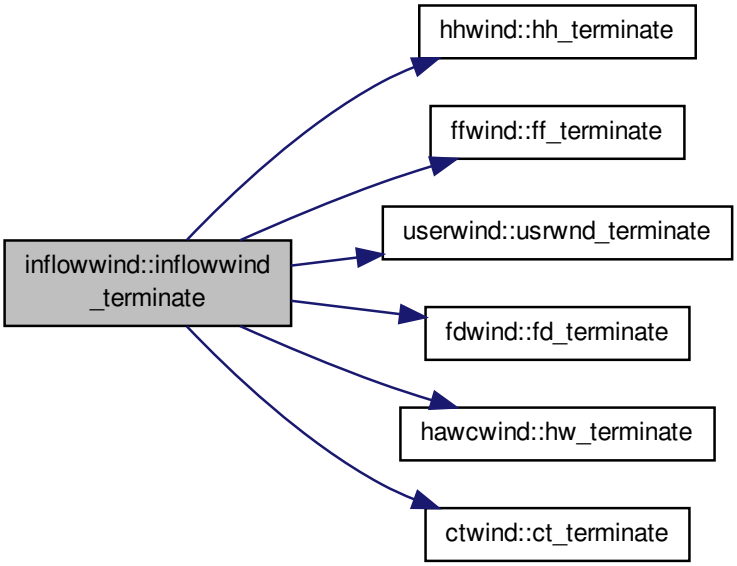
Here is the caller graph for this function:



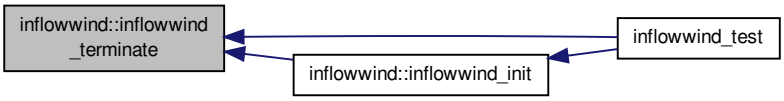
3.12.2.2 subroutine, public inflowwind::inflowwind_terminate (integer, intent(out) *ErrStat*)

Definition at line 6793 of file tempassembled.f90.

Here is the call graph for this function:



Here is the caller graph for this function:



3.12.3 Member Data Documentation

3.12.3.1 character(99), parameter inflowwind::inflowwindver = 'InflowWind (v1.01.00b-bjj, 10-Aug-2012)'

Definition at line 6655 of file tempassembled.f90.

3.12.3.2 integer inflowwind::unwind = 91 [private]

Definition at line 6622 of file tempassembled.f90.

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

- tempassembled.f90

3.13 inflowwind_subs Module Reference

Public Member Functions

- type(inflintrpout) function inflowwind_getvelocity (Time, InputPosition, ErrStat)
- integer function getwindtype (FileName, ErrStat)
- subroutine inflowwind_linearizeperturbation (LinPerturbations, ErrStat)
- real(reki) function, dimension(3) inflowwind_adhack_diskvel (Time, InpPosition, ErrStat)
- real(reki) function inflowwind_adhack_dicheck (ErrStat)

3.13.1 Detailed Description

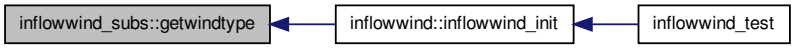
Definition at line 5926 of file tempassembled.f90.

3.13.2 Member Function/Subroutine Documentation

3.13.2.1 integer function inflowwind_subs::getwindtype (character(*), intent(inout) *FileName,* integer, intent(out) *ErrStat*)

Definition at line 6026 of file tempassembled.f90.

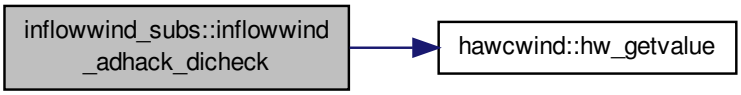
Here is the caller graph for this function:



3.13.2.2 real(reki) function inflowwind_subs::inflowwind_adhack_dicheck (integer, intent(out) *ErrStat*)

Definition at line 6299 of file tempassembled.f90.

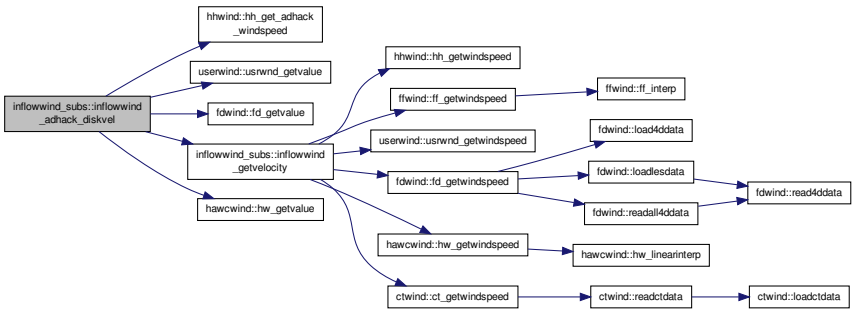
Here is the call graph for this function:



3.13.2.3 real(reki) function, dimension(3) inflowwind_subs::inflowwind_adhack_diskvel (real(reki), intent(in) *Time,* real(reki), dimension(3), intent(in) *InpPosition,* integer, intent(out) *ErrStat*)

Definition at line 6178 of file tempassembled.f90.

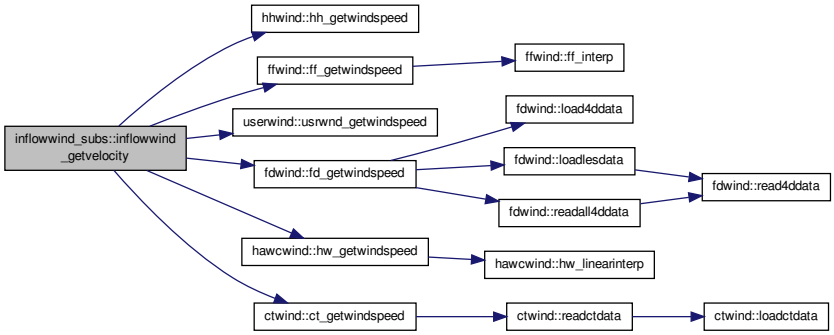
Here is the call graph for this function:



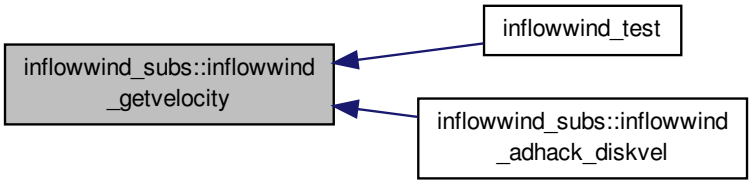
3.13.2.4 type(inflintrpout) function inflowwind_subs::inflowwind_getvelocity (real(reki), intent(in) *Time,* real(reki), dimension(3), intent(in) *InputPosition,* integer, intent(out) *ErrStat*)

Definition at line 5962 of file tempassembled.f90.

Here is the call graph for this function:



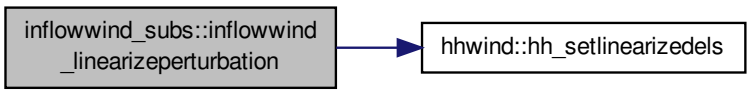
Here is the caller graph for this function:



3.13.2.5 subroutine inflowwind_subs::inflowwind_linearizeperturbation (real(reki), dimension(7), intent(in) *LinPerturbations,* integer, intent(out) *ErrStat*)

Definition at line 6142 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

3.14 sharedinflowdefs Module Reference

Data Types

- type inflintrpout

Public Attributes

- integer, parameter, public default_wind = -1
- integer, parameter, public undef_wind = 0
- integer, parameter, public hh_wind = 1
- integer, parameter, public ff_wind = 2
- integer, parameter, public ud_wind = 3
- integer, parameter, public fd_wind = 4
- integer, parameter, public ctp_wind = 5
- integer, parameter, public hawc_wind = 6
- integer, save windtype = Undef_Wind
- logical, save ct_flag = .FALSE.

3.14.1 Detailed Description

Definition at line 89 of file tempassembled.f90.

3.14.2 Member Data Documentation

3.14.2.1 logical, save sharedinflowdefs::ct_flag = .FALSE.

Definition at line 130 of file tempassembled.f90.

3.14.2.2 integer, parameter, public sharedinflowdefs::ctp_wind = 5

Definition at line 123 of file tempassembled.f90.

3.14.2.3 integer, parameter, public sharedinflowdefs::default_wind = -1

Definition at line 117 of file tempassembled.f90.

3.14.2.4 integer, parameter, public sharedinflowdefs::fd_wind = 4

Definition at line 122 of file tempassembled.f90.

3.14.2.5 integer, parameter, public sharedinflowdefs::ff_wind = 2

Definition at line 120 of file tempassembled.f90.

3.14.2.6 integer, parameter, public sharedinflowdefs::hawc_wind = 6

Definition at line 124 of file tempassembled.f90.

3.14.2.7 integer, parameter, public sharedinflowdefs::hh_wind = 1

Definition at line 119 of file tempassembled.f90.

3.14.2.8 integer, parameter, public sharedinflowdefs::ud_wind = 3

Definition at line 121 of file tempassembled.f90.

3.14.2.9 integer, parameter, public sharedinflowdefs::undef_wind = 0

Definition at line 118 of file tempassembled.f90.

3.14.2.10 integer, save sharedinflowdefs::windtype = Undef_Wind

Definition at line 127 of file tempassembled.f90.

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

- tempassembled.f90

3.15 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

3.15.1 Detailed Description

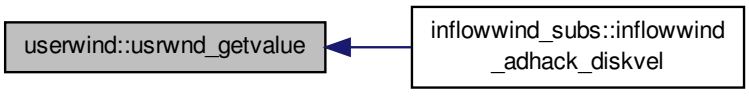
Definition at line 5730 of file tempassembled.f90.

3.15.2 Member Function/Subroutine Documentation

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

Definition at line 5803 of file tempassembled.f90.

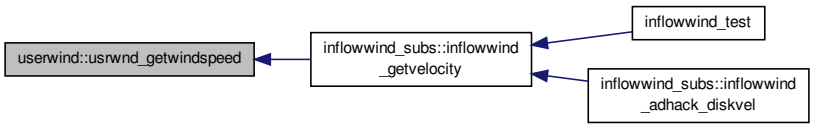
Here is the caller graph for this function:



3.15.2.2 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 5857 of file tempassembled.f90.

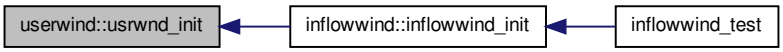
Here is the caller graph for this function:



3.15.2.3 subroutine, public userwind::usrwnd_init (integer, intent(out) *ErrStat*)

Definition at line 5759 of file tempassembled.f90.

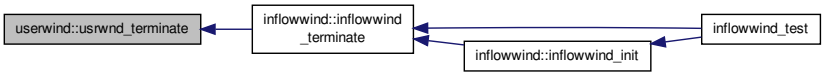
Here is the caller graph for this function:



3.15.2.4 subroutine, public userwind::usrwnd_terminate (integer, intent(out) *ErrStat*)

Definition at line 5898 of file tempassembled.f90.

Here is the caller graph for this function:



3.15.3 Member Data Documentation

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

Definition at line 5743 of file tempassembled.f90.

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

Definition at line 5745 of file tempassembled.f90.

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

Definition at line 5746 of file tempassembled.f90.

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

Definition at line 5747 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::inflintrpout
- 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
- type inflowwind::inflinitinfo

Functions/Subroutines

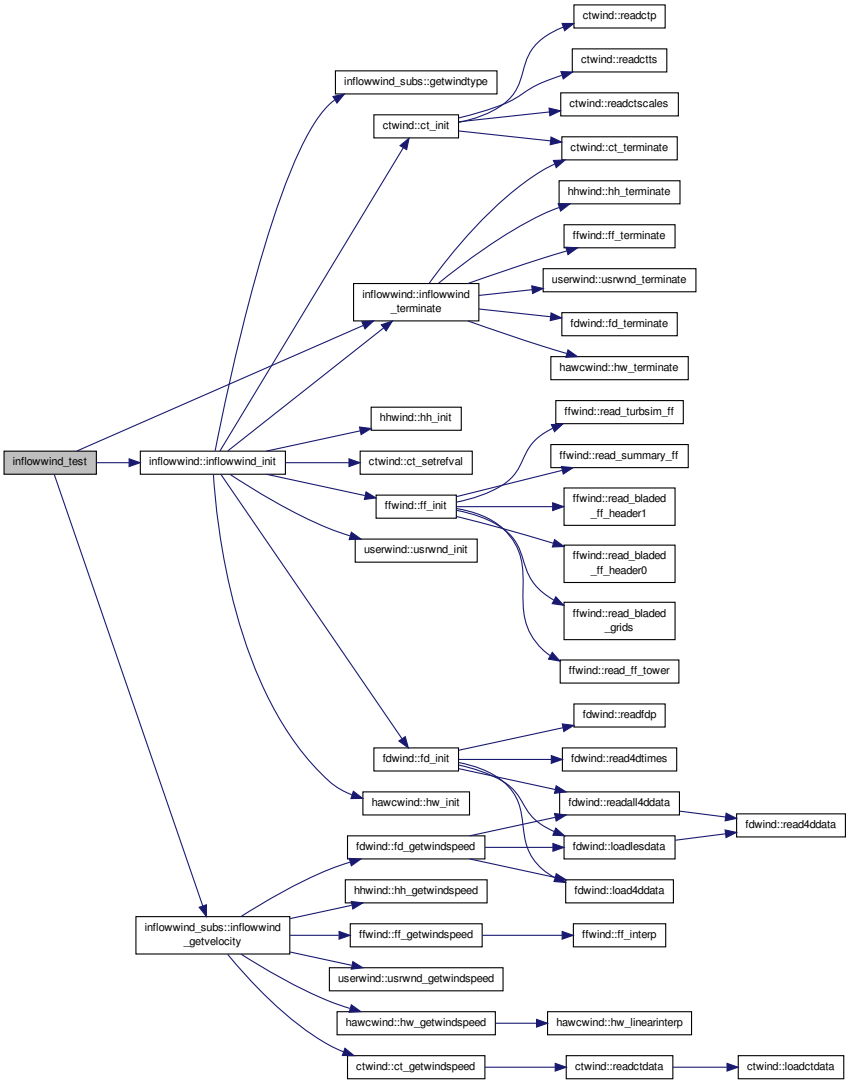
- program inflowwind_test

4.1.1 Function/Subroutine Documentation

4.1.1.1 program inflowwind_test ( )

Definition at line 7 of file tempassembled.f90.

Here is the call graph for this function:



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