InflowWind

Revision: 13 (last commit)

Generated by Doxygen 1.8.1.2

Mon Dec 17 2012 11:13:30

CONTENTS

Contents

1	Data	Type In	dex	1
	1.1	Data Ty	rpes List	1
2	File	Index		2
	2.1	File Lis	t	2
3	Data	Type D	ocumentation	2
3.1 ctwind::ct_backgr Type Reference			cct_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:	cctwindfiles Type Reference	0
		3.3.1	Detailed Description	.1
		3.3.2	Member Data Documentation	. 1
	3.4	fdwind	Module Reference	. 1
		3.4.1	Detailed Description	3
		3.4.2	Member Function/Subroutine Documentation	3
		3.4.3	Member Data Documentation	7
3.5 ffwind::ff_getvalue Interface Reference			ff_getvalue Interface Reference	21
		3.5.1	Detailed Description	21
		3.5.2	Member Function/Subroutine Documentation	21
	3.6	ffwind N	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	hawcwi	nd 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	
		3.8.2	Member Data Documentation	
	3.9	hhwind	Module Reference	

CONTENTS

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

1 Data Type Index

	3.21 inflowwind_subs Module Reference	46
	3.21.1 Detailed Description	46
	3.21.2 Member Function/Subroutine Documentation	46
	3.22 sharedinflowdefs Module Reference	47
	3.22.1 Detailed Description	47
	3.23 userwind Module Reference	47
	3.23.1 Detailed Description	48
	3.23.2 Member Function/Subroutine Documentation	
	3.23.3 Member Data Documentation	
	3.24 windfile_types Module Reference	
	3.24.1 Detailed Description	
	3.24.2 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	1 Data Types List	
He	ere 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

2 File Index		•
z File index		4

	sharedinflowdefs::ifw_inputtype	38	
	sharedinflowdefs::ifw_otherstatetype	39	
	sharedinflowdefs::ifw_outputtype	39	
	sharedinflowdefs::ifw_parametertype	40	
	inflowwind::inflinitinfo	40	
	sharedinflowdefs::inflintrpout	41	
	inflowwind	41	
	inflowwind_subs	46	
	sharedinflowdefs	47	
	userwind	47	
	windfile_types	49	
2	File Index		
2.1	File List		
Her	re is a list of all files with brief descriptions:		
	tempassembled.f90	50	
3	Data Type Documentation		
3.1	ctwind::ct_backgr Type Reference		
Pub	lic Attributes		
	 character(1024) windfile integer windfiletype logical coherentstr 		
3.1.	1 Detailed Description		
Def	inition at line 448 of file tempassembled.f90.		
3.1.	2 Member Data Documentation		
3.1.	2.1 logical ctwind::ct_backgr::coherentstr		
Def	Definition at line 451 of file tempassembled.f90.		

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

Definition at line 449 of file tempassembled.f90.

3.1.2.3 integer ctwind::ct_backgr::windfiletype

Definition at line 450 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 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 370 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 667 of file tempassembled.f90.

Here is the call graph for this function:



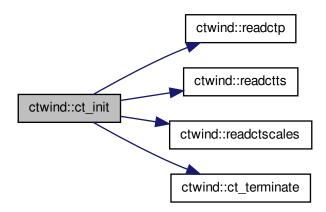
Here is the caller graph for this function:



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 462 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 613 of file tempassembled.f90.

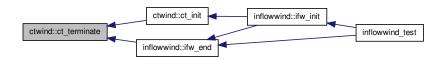
Here is the caller graph for this function:



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

Definition at line 1347 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 997 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 944 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 1065 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 1287 of file tempassembled.f90.

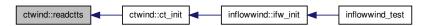
Here is the caller graph for this function:



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 1145 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 418 of file tempassembled.f90.

3.2.3.2 integer ctwind::ct_df_z [private]

Definition at line 419 of file tempassembled.f90.

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

Definition at line 411 of file tempassembled.f90.

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

Definition at line 398 of file tempassembled.f90.

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

Definition at line 439 of file tempassembled.f90.

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

Definition at line 406 of file tempassembled.f90.

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

Definition at line 407 of file tempassembled.f90.

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

Definition at line 399 of file tempassembled.f90.

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

Definition at line 400 of file tempassembled.f90.

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

Definition at line 408 of file tempassembled.f90.

```
3.2.3.11 character(1024) ctwind::ctspath [private]
Definition at line 440 of file tempassembled.f90.
3.2.3.12 integer, dimension(2) ctwind::ctvel_files [private]
Definition at line 420 of file tempassembled.f90.
3.2.3.13 real(reki), dimension (:,:,:), allocatable ctwind::ctvelu [private]
Definition at line 403 of file tempassembled.f90.
3.2.3.14 real(reki), dimension (:,:,:), allocatable ctwind::ctvelv [private]
Definition at line 404 of file tempassembled.f90.
3.2.3.15 real(reki), dimension (:,:,:), allocatable ctwind::ctvelw [private]
Definition at line 405 of file tempassembled.f90.
3.2.3.16 logical ctwind::ctvertshft [private]
Definition at line 437 of file tempassembled.f90.
3.2.3.17 integer ctwind::ctwindunit [private]
Definition at line 435 of file tempassembled.f90.
3.2.3.18 real(reki) ctwind::ctyhwid [private]
Definition at line 412 of file tempassembled.f90.
3.2.3.19 real(reki) ctwind::ctymax [private]
Definition at line 413 of file tempassembled.f90.
3.2.3.20 real(reki) ctwind::ctyt [private]
Definition at line 414 of file tempassembled.f90.
3.2.3.21 real(reki) ctwind::ctzmax [private]
Definition at line 415 of file tempassembled.f90.
3.2.3.22 real(reki) ctwind::delyctgrid [private]
Definition at line 396 of file tempassembled.f90.
3.2.3.23 real(reki) ctwind::delzctgrid [private]
Definition at line 397 of file tempassembled.f90.
3.2.3.24 integer ctwind::indct_hi [private]
Definition at line 422 of file tempassembled.f90.
```

```
3.2.3.25 integer ctwind::indct_lo [private]
Definition at line 423 of file tempassembled.f90.
3.2.3.26 real(reki) ctwind::invmctws [private]
Definition at line 416 of file tempassembled.f90.
3.2.3.27 integer, parameter ctwind::numcomps = 3 [private]
Definition at line 393 of file tempassembled.f90.
3.2.3.28 integer ctwind::numctt [private]
Definition at line 425 of file tempassembled.f90.
3.2.3.29 integer ctwind::numcty [private]
Definition at line 426 of file tempassembled.f90.
3.2.3.30 integer ctwind::numctyd [private]
Definition at line 427 of file tempassembled.f90.
3.2.3.31 integer ctwind::numctyd1 [private]
Definition at line 428 of file tempassembled.f90.
3.2.3.32 integer ctwind::numctz [private]
Definition at line 429 of file tempassembled.f90.
3.2.3.33 integer ctwind::numctzd [private]
Definition at line 430 of file tempassembled.f90.
3.2.3.34 integer ctwind::numctzd1 [private]
Definition at line 431 of file tempassembled.f90.
3.2.3.35 real(reki), dimension (:), allocatable ctwind::tdata [private]
Definition at line 409 of file tempassembled.f90.
3.2.3.36 integer, save ctwind::timeindx = 0 [private]
Definition at line 432 of file tempassembled.f90.
3.2.3.37 integer, dimension (:), allocatable ctwind::timestpct [private]
Definition at line 433 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 442 of file tempassembled.f90.

3.3.2 Member Data Documentation

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

Definition at line 444 of file tempassembled.f90.

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

Definition at line 443 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) |x real(reki) ly • real(reki) Iz • 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 num4dzinteger num4dzdinteger num4dzd1integer 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 1369 of file tempassembled.f90.

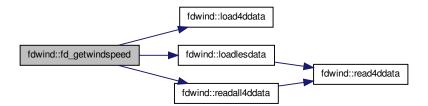
- 3.4.2 Member Function/Subroutine Documentation
- 3.4.2.1 real(reki) function, public fdwind::fd_getvalue (character(*), intent(in) RVarName, integer, intent(out) ErrStat)

Definition at line 2229 of file tempassembled.f90.

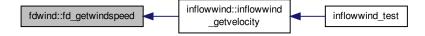
3.4.2.2 type(inflintrpout) function, public fdwind::fd_getwindspeed (real(reki), intent(in) *Time*, real(reki), dimension(3), intent(in) *InputPosition*, integer, intent(out) *ErrStat*)

Definition at line 2275 of file tempassembled.f90.

Here is the call graph for this function:



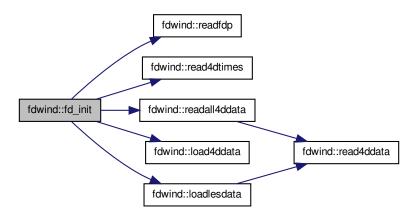
Here is the caller graph for this function:



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 1462 of file tempassembled.f90.

Here is the call graph for this function:



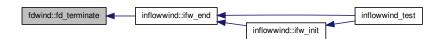
Here is the caller graph for this function:



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

Definition at line 2607 of file tempassembled.f90.

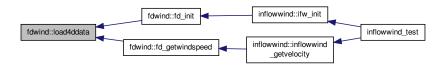
Here is the caller graph for this function:



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

Definition at line 2202 of file tempassembled.f90.

Here is the caller graph for this function:



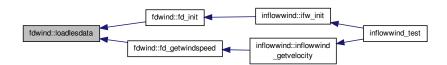
3.4.2.6 subroutine fdwind::loadlesdata (integer, intent(in) *UnWind*, integer, intent(in) *FileNo*, integer, intent(in) *Indx*, integer, intent(out) *ErrStat*) [private]

Definition at line 2080 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 2117 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 1966 of file tempassembled.f90.

Here is the caller graph for this function:



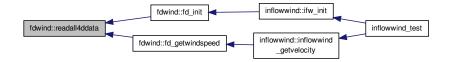
3.4.2.9 subroutine fdwind::readall4ddata (integer, intent(in) UnWind, integer, intent(out) ErrStat) [private]

Definition at line 2045 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 1705 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 1445 of file tempassembled.f90.

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

Definition at line 1450 of file tempassembled.f90.

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

Definition at line 1388 of file tempassembled.f90.

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

Definition at line 1389 of file tempassembled.f90.

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

Definition at line 1390 of file tempassembled.f90.

3.4.3.6 integer fdwind::fd_df_x [private]

Definition at line 1420 of file tempassembled.f90.

3.4.3.7 integer fdwind::fd_df_y [private]

Definition at line 1421 of file tempassembled.f90.

3.4.3.8 integer fdwind::fd_df_z [private]

Definition at line 1422 of file tempassembled.f90.

3.4.3.9 integer fdwind::fdfileno [private]

Definition at line 1423 of file tempassembled.f90.

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

Definition at line 1391 of file tempassembled.f90.

```
3.4.3.11 integer fdwind::fdrecl [private]
Definition at line 1424 of file tempassembled.f90.
3.4.3.12 character(1024) fdwind::fdspath [private]
Definition at line 1451 of file tempassembled.f90.
3.4.3.13 real(reki), dimension (2) fdwind::fdtime [private]
Definition at line 1392 of file tempassembled.f90.
3.4.3.14 real(reki), dimension (:,:,:,:), allocatable fdwind::fdu [private]
Definition at line 1393 of file tempassembled.f90.
3.4.3.15 real(reki), dimension (:,:,:,:), allocatable fdwind::fdudata [private]
Definition at line 1396 of file tempassembled.f90.
3.4.3.16 integer fdwind::fdunit [private]
Definition at line 1443 of file tempassembled.f90.
3.4.3.17 real(reki), dimension (:,:,:,:), allocatable fdwind::fdv [private]
Definition at line 1394 of file tempassembled.f90.
3.4.3.18 real(reki), dimension (:,:,:,:), allocatable fdwind::fdvdata [private]
Definition at line 1397 of file tempassembled.f90.
3.4.3.19 real(reki), dimension (:,:,:,:), allocatable fdwind::fdw [private]
Definition at line 1395 of file tempassembled.f90.
3.4.3.20 real(reki), dimension (:,:,:,:), allocatable fdwind::fdwdata [private]
Definition at line 1398 of file tempassembled.f90.
3.4.3.21 integer fdwind::ind4dadv [private]
Definition at line 1425 of file tempassembled.f90.
3.4.3.22 integer fdwind::ind4dnew [private]
Definition at line 1426 of file tempassembled.f90.
3.4.3.23 integer fdwind::ind4dold [private]
Definition at line 1427 of file tempassembled.f90.
3.4.3.24 logical, save fdwind::initialized = .FALSE. [private]
Definition at line 1448 of file tempassembled.f90.
```

```
3.4.3.25 real(reki) fdwind::lx [private]
Definition at line 1399 of file tempassembled.f90.
3.4.3.26 real(reki) fdwind::ly [private]
Definition at line 1400 of file tempassembled.f90.
3.4.3.27 real(reki) fdwind::lz [private]
Definition at line 1401 of file tempassembled.f90.
3.4.3.28 integer fdwind::num4dt [private]
Definition at line 1428 of file tempassembled.f90.
3.4.3.29 integer, parameter fdwind::num4dtd = 2 [private]
Definition at line 1429 of file tempassembled.f90.
3.4.3.30 integer fdwind::num4dx [private]
Definition at line 1430 of file tempassembled.f90.
3.4.3.31 integer fdwind::num4dxd [private]
Definition at line 1431 of file tempassembled.f90.
3.4.3.32 integer fdwind::num4dxd1 [private]
Definition at line 1432 of file tempassembled.f90.
3.4.3.33 integer fdwind::num4dy [private]
Definition at line 1433 of file tempassembled.f90.
3.4.3.34 integer fdwind::num4dyd [private]
Definition at line 1434 of file tempassembled.f90.
3.4.3.35 integer fdwind::num4dyd1 [private]
Definition at line 1435 of file tempassembled.f90.
3.4.3.36 integer fdwind::num4dz [private]
Definition at line 1436 of file tempassembled.f90.
3.4.3.37 integer fdwind::num4dzd [private]
Definition at line 1437 of file tempassembled.f90.
3.4.3.38 integer fdwind::num4dzd1 [private]
Definition at line 1438 of file tempassembled.f90.
```

```
3.4.3.39 integer fdwind::numadvect [private]
Definition at line 1439 of file tempassembled.f90.
3.4.3.40 real(reki), dimension (3) fdwind::offsets [private]
Definition at line 1402 of file tempassembled.f90.
3.4.3.41 real(reki), save fdwind::prevtime [private]
Definition at line 1403 of file tempassembled.f90.
3.4.3.42 real(reki) fdwind::rotdiam [private]
Definition at line 1404 of file tempassembled.f90.
3.4.3.43 real(reki) fdwind::scalevel [private]
Definition at line 1406 of file tempassembled.f90.
3.4.3.44 real(reki), dimension (3) fdwind::scalfact [private]
Definition at line 1405 of file tempassembled.f90.
3.4.3.45 integer fdwind::shft4dnew [private]
Definition at line 1440 of file tempassembled.f90.
3.4.3.46 real(reki) fdwind::t_4d_en [private]
Definition at line 1410 of file tempassembled.f90.
3.4.3.47 real(reki) fdwind::t_4d_st [private]
Definition at line 1411 of file tempassembled.f90.
3.4.3.48 real(reki), dimension (:), allocatable fdwind::times4d [private]
Definition at line 1407 of file tempassembled.f90.
3.4.3.49 integer, dimension (:), allocatable fdwind::times4dix [private]
Definition at line 1441 of file tempassembled.f90.
3.4.3.50 real(reki) fdwind::tm_max [private]
Definition at line 1408 of file tempassembled.f90.
3.4.3.51 real(reki) fdwind::tsclfact [private]
Definition at line 1409 of file tempassembled.f90.
3.4.3.52 logical fdwind::vertshft [private]
Definition at line 1446 of file tempassembled.f90.
```

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

Definition at line 1412 of file tempassembled.f90.

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

Definition at line 1413 of file tempassembled.f90.

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

Definition at line 1414 of file tempassembled.f90.

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

Definition at line 1415 of file tempassembled.f90.

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

Definition at line 1416 of file tempassembled.f90.

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

Definition at line 1418 of file tempassembled.f90.

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

Definition at line 1417 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 2682 of file tempassembled.f90.

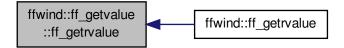
3.5.2 Member Function/Subroutine Documentation

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

[private]

Definition at line 4237 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

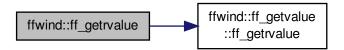
Definition at line 2633 of file tempassembled.f90.

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 4237 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 4292 of file tempassembled.f90.

Here is the call graph for this function:



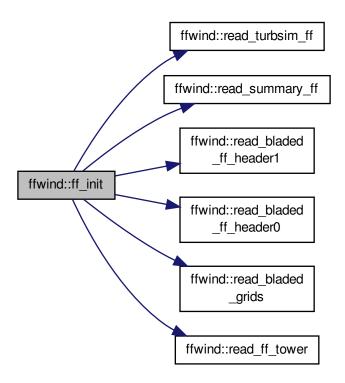
Here is the caller graph for this function:



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

Definition at line 2694 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 4354 of file tempassembled.f90.

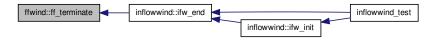
Here is the caller graph for this function:



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

Definition at line 4655 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 2874 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 3014 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 3354 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 4032 of file tempassembled.f90.

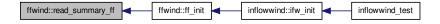
Here is the caller graph for this function:



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 3492 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 3726 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 2656 of file tempassembled.f90.

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

Definition at line 2659 of file tempassembled.f90.

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

Definition at line 2660 of file tempassembled.f90.

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

Definition at line 2657 of file tempassembled.f90.

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

Definition at line 2661 of file tempassembled.f90.

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

Definition at line 2662 of file tempassembled.f90.

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

Definition at line 2664 of file tempassembled.f90.

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

Definition at line 2678 of file tempassembled.f90.

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

Definition at line 2665 of file tempassembled.f90.

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

Definition at line 2666 of file tempassembled.f90.

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

Definition at line 2667 of file tempassembled.f90.

```
3.6.3.12 real(reki) ffwind::invmffws [private]
Definition at line 2668 of file tempassembled.f90.
3.6.3.13 real(reki) ffwind::meanffws [private]
Definition at line 2669 of file tempassembled.f90.
3.6.3.14 integer ffwind::nffcomp [private]
Definition at line 2672 of file tempassembled.f90.
3.6.3.15 integer ffwind::nffsteps [private]
Definition at line 2673 of file tempassembled.f90.
3.6.3.16 integer ffwind::ntgrids [private]
Definition at line 2676 of file tempassembled.f90.
3.6.3.17 integer ffwind::nygrids [private]
Definition at line 2674 of file tempassembled.f90.
3.6.3.18 integer ffwind::nzgrids [private]
Definition at line 2675 of file tempassembled.f90.
3.6.3.19 logical ffwind::periodic = .FALSE. [private]
Definition at line 2679 of file tempassembled.f90.
3.6.3.20 real(reki) ffwind::refht [private]
Definition at line 2663 of file tempassembled.f90.
3.6.3.21 real(reki) ffwind::totaltime [private]
```

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

Definition at line 2670 of file tempassembled.f90.

· 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 4674 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 5044 of file tempassembled.f90.

Here is the caller graph for this function:



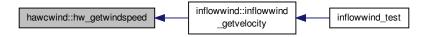
3.7.2.2 type(inflintrpout) function, public hawcwind::hw_getwindspeed (real(reki), intent(in) *Time*, real(reki), dimension(3), intent(in) *InputPosition*, integer, intent(out) *ErrStat*)

Definition at line 5099 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 4723 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 5133 of file tempassembled.f90.

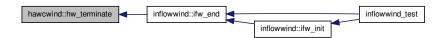
Here is the caller graph for this function:



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

Definition at line 5338 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 4697 of file tempassembled.f90.

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

Definition at line 4698 of file tempassembled.f90.

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

Definition at line 4699 of file tempassembled.f90.

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

Definition at line 4706 of file tempassembled.f90.

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

Definition at line 4713 of file tempassembled.f90.

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

Definition at line 4707 of file tempassembled.f90.

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

Definition at line 4708 of file tempassembled.f90.

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

Definition at line 4701 of file tempassembled.f90.

3.7.3.9 integer hawcwind::nx [private]

Definition at line 4702 of file tempassembled.f90.

3.7.3.10 integer hawcwind::ny [private]

Definition at line 4703 of file tempassembled.f90.

```
3.7.3.11 integer hawcwind::nz [private]
```

Definition at line 4704 of file tempassembled.f90.

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

Definition at line 4709 of file tempassembled.f90.

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

Definition at line 4710 of file tempassembled.f90.

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

Definition at line 4695 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 5405 of file tempassembled.f90.

3.8.2 Member Data Documentation

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

Definition at line 5406 of file tempassembled.f90.

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

Definition at line 5407 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 5355 of file tempassembled.f90.

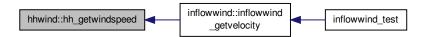
- 3.9.2 Member Function/Subroutine Documentation
- 3.9.2.1 type(inflintrpout) function, public hhwind::hh_get_adhack_windspeed (real(reki), intent(in) *Time*, real(reki), dimension(3), intent(in) *InputPosition*, integer, intent(out) *ErrStat*)

Definition at line 5816 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 5685 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 5418 of file tempassembled.f90.

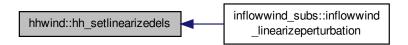
Here is the caller graph for this function:



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

Definition at line 5909 of file tempassembled.f90.

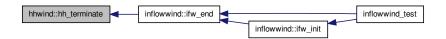
Here is the caller graph for this function:



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

Definition at line 5935 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 5388 of file tempassembled.f90.

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

Definition at line 5391 of file tempassembled.f90.

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

Definition at line 5403 of file tempassembled.f90.

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

Definition at line 5396 of file tempassembled.f90.

3.9.3.5 integer hhwind::numdatalines [private]

Definition at line 5400 of file tempassembled.f90.

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

Definition at line 5397 of file tempassembled.f90.

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

Definition at line 5398 of file tempassembled.f90.

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

Definition at line 5387 of file tempassembled.f90.

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

Definition at line 5401 of file tempassembled.f90.

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

Definition at line 5389 of file tempassembled.f90.

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

Definition at line 5394 of file tempassembled.f90.

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

Definition at line 5393 of file tempassembled.f90.

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

Definition at line 5392 of file tempassembled.f90.

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

Definition at line 5390 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 130 of file tempassembled.f90.

3.10.2 Member Data Documentation

3.10.2.1 real(reki) sharedinflowdefs::ifw_constraintstatetype::dummyconstrstate

Definition at line 132 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 116 of file tempassembled.f90.

3.11.2 Member Data Documentation

3.11.2.1 real(reki) sharedinflowdefs::ifw_continuousstatetype::dummycontstate

Definition at line 118 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 124 of file tempassembled.f90.

3.12.2 Member Data Documentation

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

Definition at line 126 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

real(reki) dummyreal

3.13.1 Detailed Description

Definition at line 107 of file tempassembled.f90.

3.13.2 Member Data Documentation

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

Definition at line 110 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 161 of file tempassembled.f90.

3.14.2 Member Data Documentation

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

Definition at line 165 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 136 of file tempassembled.f90.

3.15.2 Member Data Documentation

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

Definition at line 139 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 171 of file tempassembled.f90.

3.16.2 Member Data Documentation

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

Definition at line 175 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

- integer windtype = 0
- logical ct_flag = .FALSE.
- logical initialized = .FALSE.

3.17.1 Detailed Description

Definition at line 145 of file tempassembled.f90.

3.17.2 Member Data Documentation

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

Definition at line 153 of file tempassembled.f90.

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

Definition at line 154 of file tempassembled.f90.

3.17.2.3 integer sharedinflowdefs::ifw_parametertype::windtype = 0

Definition at line 150 of file tempassembled.f90.

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

· tempassembled.f90

3.18 inflowwind::inflinitinfo Type Reference

Public Attributes

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

3.18.1 Detailed Description

Definition at line 6871 of file tempassembled.f90.

3.18.2 Member Data Documentation

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

Definition at line 6874 of file tempassembled.f90.

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

Definition at line 6875 of file tempassembled.f90.

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

Definition at line 6872 of file tempassembled.f90.

3.18.2.4 integer inflowwind::inflinitinfo::windfiletype

Definition at line 6873 of file tempassembled.f90.

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

· tempassembled.f90

3.19 sharedinflowdefs::inflintrpout Type Reference

Public Attributes

• real(reki), dimension(3) velocity

3.19.1 Detailed Description

Definition at line 191 of file tempassembled.f90.

3.19.2 Member Data Documentation

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

Definition at line 192 of file tempassembled.f90.

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

• tempassembled.f90

3.20 inflowwind Module Reference

Data Types

· type inflinitinfo

Public Member Functions

- subroutine, public ifw init (ParamData, FileInfo, 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

3.20.1 Detailed Description

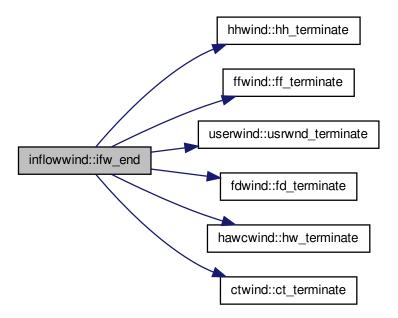
Definition at line 6796 of file tempassembled.f90.

3.20.2 Member Function/Subroutine Documentation

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

Definition at line 7168 of file tempassembled.f90.

Here is the call graph for this function:



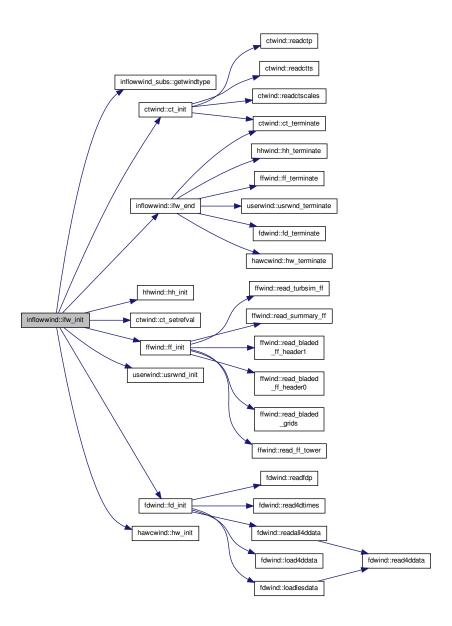
Here is the caller graph for this function:



3.20.2.2 subroutine, public inflowwind::ifw_init (type(ifw_parametertype), intent(inout) *ParamData,* type(inflinitinfo), intent(in) *FileInfo,* integer(intki), intent(out) *ErrStat,* character(*), intent(out) *ErrMsg*)

Definition at line 6898 of file tempassembled.f90.

Here is the call graph for this function:



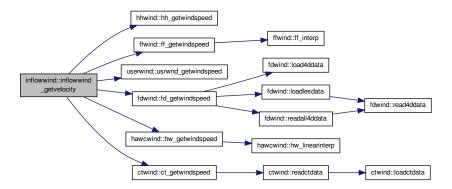
Here is the caller graph for this function:



3.20.2.3 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 7104 of file tempassembled.f90.

Here is the call graph for this function:



Here is the caller graph for this function:



3.20.3 Member Data Documentation

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

Definition at line 6828 of file tempassembled.f90.

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

Definition at line 6830 of file tempassembled.f90.

3.20.3.3 integer inflowwind::unwind = 91 [private]

Definition at line 6864 of file tempassembled.f90.

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

· tempassembled.f90

3.21 inflowwind_subs Module Reference

Public Member Functions

- integer function getwindtype (FileName, ErrStat)
- subroutine inflowwind_linearizeperturbation (IfW_ParamData, LinPerturbations, ErrStat)
- real(reki) function inflowwind_adhack_dicheck (IfW_ParamData, ErrStat)

3.21.1 Detailed Description

Definition at line 6170 of file tempassembled.f90.

3.21.2 Member Function/Subroutine Documentation

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

Definition at line 6207 of file tempassembled.f90.

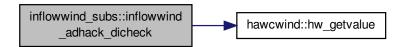
Here is the caller graph for this function:



3.21.2.2 real(reki) function inflowwind_subs::inflowwind_adhack_dicheck (type(ifw_parametertype), intent(inout) IfW_ParamData, integer, intent(out) ErrStat)

Definition at line 6482 of file tempassembled.f90.

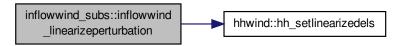
Here is the call graph for this function:



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

Definition at line 6322 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

3.22 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

3.22.1 Detailed Description

Definition at line 97 of file tempassembled.f90.

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

• tempassembled.f90

3.23 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

3.23.1 Detailed Description

Definition at line 5973 of file tempassembled.f90.

- 3.23.2 Member Function/Subroutine Documentation
- 3.23.2.1 real(reki) function, public userwind::usrwnd_getvalue (character(*), intent(in) VarName, integer, intent(out) ErrStat)

Definition at line 6047 of file tempassembled.f90.

3.23.2.2 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 6101 of file tempassembled.f90.

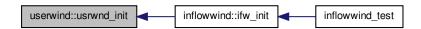
Here is the caller graph for this function:



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

Definition at line 6003 of file tempassembled.f90.

Here is the caller graph for this function:



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

Definition at line 6142 of file tempassembled.f90.

Here is the caller graph for this function:



3.23.3 Member Data Documentation

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

Definition at line 5987 of file tempassembled.f90.

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

Definition at line 5989 of file tempassembled.f90.

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

Definition at line 5990 of file tempassembled.f90.

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

Definition at line 5991 of file tempassembled.f90.

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

• tempassembled.f90

3.24 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

3.24.1 Detailed Description

Definition at line 353 of file tempassembled.f90.

3.24.2 Member Data Documentation

4 File Documentation 50

3.24.2.1 integer, parameter windfile_types::ctp_wind = 5

Definition at line 366 of file tempassembled.f90.

3.24.2.2 integer, parameter windfile_types::default_wind = -1

Definition at line 360 of file tempassembled.f90.

3.24.2.3 integer, parameter windfile_types::fd_wind = 4

Definition at line 365 of file tempassembled.f90.

3.24.2.4 integer, parameter windfile_types::ff_wind = 2

Definition at line 363 of file tempassembled.f90.

3.24.2.5 integer, parameter windfile_types::hawc_wind = 6

Definition at line 367 of file tempassembled.f90.

3.24.2.6 integer, parameter windfile_types::hh_wind = 1

Definition at line 362 of file tempassembled.f90.

3.24.2.7 integer, parameter windfile_types::ud_wind = 3

Definition at line 364 of file tempassembled.f90.

3.24.2.8 integer, parameter windfile_types::undef_wind = 0

Definition at line 361 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

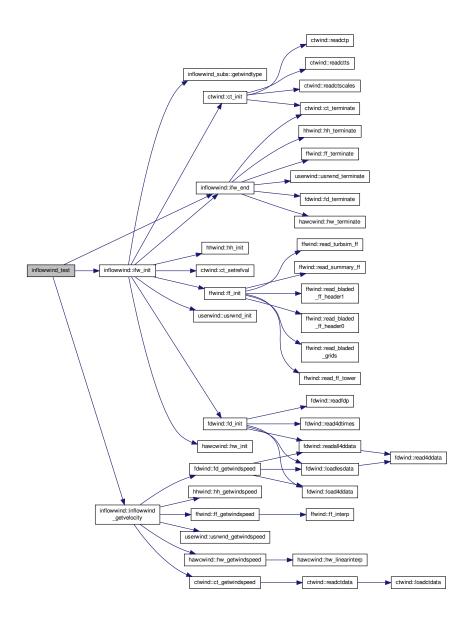
- type ctwind::ctwindfiles
- type ctwind::ct_backgr
- module fdwind
- · module ffwind
- interface ffwind::ff_getvalue
- module hawcwind
- module hhwind
- type hhwind::hh_info
- module userwind
- module inflowwind_subs
- · module inflowwind
- type inflowwind::inflinitinfo

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:



Index

advect	ctvelw
fdwind, 17	ctwind, 8
advfiles	ctvertshft
fdwind, 17	ctwind, 8
•	ctwind, 2
coherentstr	ct_df_y, 7
ctwind::ct_backgr, 2	ct_df_z, 7
ct_df_y	ct_getwindspeed, 4
ctwind, 7	ct_init, 4
ct_df_z	ct setrefval, 5
ctwind, 7	ct_terminate, 5
ct_flag	ct_zref, 7
sharedinflowdefs::ifw_parametertype, 40	ctdistsc, 8
ct_getwindspeed	ctext, 8
ctwind, 4	ctly, 8
ct_init	ctlz, 8
ctwind, 4	ctoffset, 8
ct_setrefval	ctscale, 8
ctwind, 5	ctscalevel, 8
ct_terminate	ctspath, 8
ctwind, 5	ctvel_files, 8
ct_zref	ctvelu, 8
ctwind, 7	ctvelv, 8
ctbackgr	ctvelw, 8
ctwind::ctwindfiles, 10	ctvertshft, 8
ctdistsc	ctwindunit, 8
ctwind, 8	ctyhwid, 9
ctext ctwind, 8	ctymax, 9
ctly	ctyt, 9
ctwind, 8	ctzmax, 9
ctlz	delyctgrid, 9 delzctgrid, 9
ctwind, 8	indct_hi, 9
ctoffset	indct_lo, 9
ctwind, 8	invmctws, 9
ctp_wind	loadctdata, 6
windfile_types, 49	numcomps, 9
ctscale	numctt, 9
ctwind, 8	numcty, 9
ctscalevel	numctyd, 9
ctwind, 8	numctyd1, 9
ctspath	numctz, 10
ctwind, 8	numctzd, 10
cttsfile	numctzd1, 10
ctwind::ctwindfiles, 10	readctdata, 6
ctvel_files	readctp, 6
ctwind, 8	readctscales, 7
ctvelu	readctts, 7
ctwind, 8	tdata, 10
ctvelv	timeindx, 10
ctwind, 8	timestpct, 10

ctwind::ct_backgr, 2	fd df x
coherentstr, 2	fdwind, 17
windfile, 2	fd_df_y
windfiletype, 2	fdwind, 17
ctwind::ctwindfiles, 10	· ·
ctbackgr, 10	fd_df_z
	fdwind, 17
cttsfile, 10	fd_getvalue
ctwindunit	fdwind, 12
ctwind, 8	fd_getwindspeed
ctyhwid	fdwind, 12
ctwind, 9	fd_init
ctymax	fdwind, 13
ctwind, 9	fd_terminate
ctyt	fdwind, 14
ctwind, 9	fd_wind
ctzmax	windfile_types, 50
ctwind, 9	fdfileno
	fdwind, 17
dataformatid	fdper
inflowwind, 45	fdwind, 17
default_wind	fdrecl
windfile_types, 50	fdwind, 17
delta	fdspath
hhwind, 36	fdwind, 18
deltaxinv	fdtime
hawcwind, 32	fdwind, 18
deltayinv	fdu
hawcwind, 32	fdwind, 18
deltazinv	fdudata
hawcwind, 32	
delxgrid	fdwind, 18
-	fdunit
fdwind, 17 delyctgrid	fdwind, 18
	fdv
ctwind, 9	fdwind, 18
delygrid	fdvdata
fdwind, 17	fdwind, 18
delzctgrid	fdw
ctwind, 9	fdwind, 18
delzgrid	fdwdata
fdwind, 17	fdwind, 18
dummyconstrstate	fdwind, 11
sharedinflowdefs::ifw_constraintstatetype, 37	advect, 17
dummycontstate	advfiles, 17
sharedinflowdefs::ifw_continuousstatetype, 37	delxgrid, 17
dummydiscstate	delygrid, 17
sharedinflowdefs::ifw_discretestatetype, 38	delzgrid, 17
dummyinput	fd_df_x, 17
sharedinflowdefs::ifw_inputtype, 39	fd_df_y, 17
dummyotherstate	fd_df_z, 17
sharedinflowdefs::ifw_otherstatetype, 39	
dummyoutput	fd_getvalue, 12
sharedinflowdefs::ifw_outputtype, 39	fd_getwindspeed, 12
dummyreal	fd_init, 13
•	fd_terminate, 14
sharedinflowdefs::ifw_initinputtype, 38	fdfileno, 17

(1) 47	1.01
fdper, 17	zref, 21
fdrecl, 17	zt, 21
fdspath, 18	ff_getrvalue
fdtime, 18	ffwind, 23
fdu, 18	ffwind::ff_getvalue, 21
fdudata, 18	ff_getwindspeed
fdunit, 18	ffwind, 23
fdv, 18	ff_init
fdvdata, 18	ffwind, 24
fdw, 18	ff_interp
fdwdata, 18	ffwind, 25
ind4dadv, 18	ff_terminate
ind4dnew, 18	ffwind, 26
ind4dold, 18	ff_wind
initialized, 18	windfile_types, 50
load4ddata, 14	ffdata
loadlesdata, 15	ffwind, 28
lx, 18	ffdtime
ly, 19	ffwind, 28
lz, 19	ffrate
num4dt, 19	ffwind, 28
num4dtd, 19	fftower
num4dx, 19	ffwind, 28
num4dxd, 19	ffwind, 22
num4dxd1, 19	ff_getrvalue, 23
num4dy, 19	ff_getwindspeed, 23
num4dyd, 19	ff_init, 24
num4dyd1, 19	ff_interp, 25
num4dz, 19	ff_terminate, 26
num4dzd, 19	ffdata, 28
num4dzd1, 19	ffdtime, 28
numadvect, 19	ffrate, 28
offsets, 20	fftower, 28
prevtime, 20	ffyhwid, 28
read4ddata, 15	ffzhwid, 28
read4dtimes, 16	gridbase, 28
readall4ddata, 16	initialized, 28
readfdp, 16	initalized, 28
rotdiam, 20	invffyd, 28
scalevel, 20	
•	invffzd, 28
scalfact, 20	invmffws, 28
shft4dnew, 20	meanffws, 29
t_4d_en, 20	nffcomp, 29
t_4d_st, 20	nffsteps, 29
times4d, 20	ntgrids, 29
times4dix, 20	nygrids, 29
tm_max, 20	nzgrids, 29
tsclfact, 20	periodic, 29
vertshft, 20	read_bladed_ff_header0, 26
xmax, 20	read_bladed_ff_header1, 26
xt, 21	read_bladed_grids, 26
ymax, 21	read_ff_tower, 27
yt, 21	read_summary_ff, 27
zmax, 21	read_turbsim_ff, 27

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

referenceheight, 40	ffwind, 29
width, 40	20
windfilename, 41	nc
windfiletype, 41	hawcwind, 32
inflowwind_adhack_dicheck	nffcomp
inflowwind_subs, 46	ffwind, 29
inflowwind_getvelocity	nffsteps
inflowwind, 45	ffwind, 29
inflowwind_linearizeperturbation	ntgrids
inflowwind_subs, 46	ffwind, 29
inflowwind_subs, 46	num4dt
getwindtype, 46	fdwind, 19
inflowwind_adhack_dicheck, 46	num4dtd
inflowwind_linearizeperturbation, 46	fdwind, 19
inflowwind test	num4dx
tempassembled.f90, 51	fdwind, 19
initialized	num4dxd
fdwind, 18	fdwind, 19
ffwind, 28	num4dxd1
hawcwind, 32	fdwind, 19
sharedinflowdefs::ifw_parametertype, 40	num4dy
userwind, 49	fdwind, 19
initxposition	num4dyd
ffwind, 28	fdwind, 19
invffyd	num4dyd1
ffwind, 28	fdwind, 19
invffzd	num4dz
ffwind, 28	fdwind, 19
invmctws	num4dzd
	fdwind, 19
ctwind, 9	num4dzd1
invmffws	fdwind, 19
ffwind, 28	numadvect
lengthx	fdwind, 19
hawcwind, 32	numcomps
lengthyhalf	•
hawcwind, 32	ctwind, 9
	numctt
linearize	ctwind, 9
hhwind, 36	numcty
linearizedels	ctwind, 9
hhwind, 36	numctyd
load4ddata	ctwind, 9
fdwind, 14	numctyd1
loadctdata	ctwind, 9
ctwind, 6	numctz
loadlesdata	ctwind, 10
fdwind, 15	numctzd
lx	ctwind, 10
fdwind, 18	numctzd1
ly	ctwind, 10
fdwind, 19	numdatalines
lz	hhwind, 36
fdwind, 19	nx
	hawcwind, 32
meanffws	

ny	fdwind, 20
hawcwind, 32	
nygrids	scalevel
ffwind, 29	fdwind, 20
nz	scalfact
hawcwind, 32	fdwind, 20
nzgrids	sharedinflowdefs, 47
ffwind, 29	sharedinflowdefs::ifw_constraintstatetype, 37
-, -	dummyconstrstate, 37
offsets	sharedinflowdefs::ifw_continuousstatetype, 37
fdwind, 20	dummycontstate, 37
	sharedinflowdefs::ifw_discretestatetype, 38
periodic	dummydiscstate, 38
ffwind, 29	sharedinflowdefs::ifw_initinputtype, 38
prevtime	dummyreal, 38
fdwind, 20	sharedinflowdefs::ifw_inputtype, 38
	dummyinput, 39
read4ddata	sharedinflowdefs::ifw_otherstatetype, 39
fdwind, 15	dummyotherstate, 39
read4dtimes	sharedinflowdefs::ifw_outputtype, 39
fdwind, 16	dummyoutput, 39
read_bladed_ff_header0	sharedinflowdefs::ifw_parametertype, 40
ffwind, 26	ct_flag, 40
read_bladed_ff_header1	initialized, 40
ffwind, 26	windtype, 40
read_bladed_grids	sharedinflowdefs::inflintrpout, 41
ffwind, 26	velocity, 41
read_ff_tower	shft4dnew
ffwind, 27	fdwind, 20
read_summary_ff	idwiiid, 20
ffwind, 27	t_4d_en
read_turbsim_ff	fdwind, 20
ffwind, 27	t_4d_st
readall4ddata	fdwind, 20
fdwind, 16	tdata
readctdata	ctwind, 10
ctwind, 6	hhwind, 36
readctp	tempassembled.f90, 50
ctwind, 6	inflowwind_test, 51
readctscales	timeindx
ctwind, 7	ctwind, 10
readctts	hhwind, 36
ctwind, 7	times4d
readfdp	fdwind, 20
fdwind, 16	times4dix
referenceheight	
hhwind::hh_info, 33	fdwind, 20
inflowwind::inflinitinfo, 40	timestpct
refht	ctwind, 10
ffwind, 29	tm_max
hawcwind, 33	fdwind, 20
hhwind, 36	totaltime
refwid	ffwind, 29
hhwind, 36	tsclfact
rotdiam	fdwind, 20
rotaldiii	

ud_wind	ctp_wind, 49
windfile_types, 50	default_wind, 50
undef_wind	fd_wind, 50
windfile_types, 50	ff_wind, 50
unwind	hawc_wind, 50
inflowwind, 45	hh_wind, 50
uref	ud_wind, 50
hawcwind, 33	undef_wind, 50
userwind, 47	windfilename
initialized, 49	inflowwind::inflinitinfo, 41
usrwnd_getvalue, 48	windfiletype
usrwnd_getwindspeed, 48	ctwind::ct_backgr, 2
usrwnd_init, 48	inflowwind::inflinitinfo, 41
usrwnd_terminate, 48	windtype
uwmeanu, 49	sharedinflowdefs::ifw_parametertype, 40
uwmeanv, 49	
uwmeanw, 49	xmax
usrwnd_getvalue	fdwind, 20
userwind, 48	xt
usrwnd_getwindspeed	fdwind, 21
userwind, 48	
usrwnd_init	ymax
userwind, 48	fdwind, 21
usrwnd_terminate	yt
userwind, 48	fdwind, 21
uwmeanu	
userwind, 49	zmax
	fdwind, 21
uwmeanv	zref
userwind, 49	fdwind, 21
uwmeanw	zt
userwind, 49	fdwind, 21
V	
hhwind, 36	
velocity	
sharedinflowdefs::inflintrpout, 41	
vertshft	
fdwind, 20	
vgust	
hhwind, 36	
vlinshr	
hhwind, 36	
vshr	
hhwind, 37	
VZ	
hhwind, 37	
width	
width	
hhwind::hh_info, 33	
inflowwind::inflinitinfo, 40	
winddata	
hawcwind, 33	
windfile	
ctwind::ct_backgr, 2	
windfile_types, 49	