

InflowWind

Revision: 24 (last commit)

Generated by Doxygen 1.7.6.1

Wed Jan 2 2013 21:24:51

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1 Data Type Index

1.1 Data Types List

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2 File Index

2.1 File List

Here is a list of all files with brief descriptions:

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3 Data Type Documentation

3.1 CTWind::CT_Backgr Type Reference

Public Attributes

- CHARACTER(1024) [WindFile](#)
- INTEGER [WindFileType](#)
- LOGICAL [CoherentStr](#)

3.1.1 Detailed Description

Definition at line 419 of file tempassembled.f90.

3.1.2 Member Data Documentation

3.1.2.1 LOGICAL CTWind::CT_Backgr::CoherentStr

Definition at line 422 of file tempassembled.f90.

3.1.2.2 CHARACTER(1024) CTWind::CT_Backgr::WindFile

Definition at line 420 of file tempassembled.f90.

3.1.2.3 INTEGER CTWind::CT_Backgr::WindFileType

Definition at line 421 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.2 CTWind Module Reference

Data Types

- type [CT_Backgr](#)
- type [CTWindFiles](#)

Public Member Functions

- subroutine, public [CT_Init](#) (UnWind, WindFile, BackGrndValues, ErrStat)
- subroutine, public [CT_SetRefVal](#) (Height, HWidth, ErrStat)
- TYPE(InflIntrpOut) function, public [CT_GetWindSpeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [CT_Terminate](#) (ErrStat)

Private Member Functions

- subroutine [ReadCTData](#) (UnWind, CTFileNo, ltime, ErrStat)
- subroutine [LoadCTData](#) (UnWind, FileName, lTime, lComp, 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) `CTOffset`
- REAL(ReKi) `CTScale`
- REAL(ReKi), allocatable `CTvelU`
- REAL(ReKi), allocatable `CTvelV`
- REAL(ReKi), allocatable `CTvelW`
- REAL(ReKi) `CTLy`
- REAL(ReKi) `CTLz`
- REAL(ReKi) `CTScaleVel`
- REAL(ReKi), 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 `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, allocatable `TimeStpCT`
- INTEGER `CTWindUnit`
- LOGICAL `CTVertShft`
- CHARACTER(3) `CText`
- CHARACTER(1024) `CTspath`

3.2.1 Detailed Description

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

3.2.2 Member Function/Subroutine Documentation

3.2.2.1 TYPE(InflIntrpOut) function, public CTWind::CT_GetWindSpeed (REAL(ReKi),
intent(in) *Time*, REAL(ReKi), dimension(3), intent(in) *InputPosition*, INTEGER, intent(out)
ErrStat)

Definition at line 638 of file tempassembled.f90.

3.2.2.2 subroutine, public CTWind::CT_Init (INTEGER, intent(in) *UnWind*, CHARACTER(*),
intent(in) *WindFile*, TYPE(CT_Backgr), intent(out) *BackGrndValues*, INTEGER,
intent(out) *ErrStat*)

Definition at line 433 of file tempassembled.f90.

3.2.2.3 subroutine, public CTWind::CT_SetRefVal (REAL(ReKi), intent(in) *Height*,
REAL(ReKi), intent(in), optional *HWidth*, INTEGER, intent(out) *ErrStat*)

Definition at line 584 of file tempassembled.f90.

3.2.2.4 subroutine, public CTWind::CT_Terminate (INTEGER, intent(out) *ErrStat*)

Definition at line 1318 of file tempassembled.f90.

3.2.2.5 subroutine CTWind::LoadCTData (INTEGER, intent(in) *UnWind*, CHARACTER(*),
intent(in) *FileName*, INTEGER, intent(in) *ITime*, INTEGER, intent(in) *IComp*, REAL(ReKi),
dimension (numctyd,numctzd,2), intent(inout) *Vel*, INTEGER, intent(out) *ErrStat*)
[private]

Definition at line 968 of file tempassembled.f90.

3.2.2.6 subroutine CTWind::ReadCTData (INTEGER, intent(in) *UnWind*, INTEGER,
intent(in) *CTFileNo*, INTEGER, intent(in) *ltime*, INTEGER, intent(out) *ErrStat*)
[private]

Definition at line 915 of file tempassembled.f90.

3.2.2.7 subroutine CTWind::ReadCTP (INTEGER, intent(in) *UnWind*, CHARACTER(*),
intent(in) *FileName*, TYPE(CTWindFiles), intent(out) *CTPscaling*, INTEGER, intent(out)
ErrStat) [private]

Definition at line 1036 of file tempassembled.f90.

3.2.2.8 subroutine CTWind::ReadCTScales (INTEGER, intent(in) *UnWind*, CHARACTER(*),
intent(in) *FileName*, INTEGER, intent(out) *ErrStat*) [private]

Definition at line 1258 of file tempassembled.f90.

3.2.2.9 subroutine **CTWind::ReadCTTS** (**INTEGER**, intent(in) *UnWind*, **CHARACTER**(*),
 intent(in) *FileName*, **CHARACTER**(3), intent(out) *CT_SC_ext*, **INTEGER**, intent(out)
ErrStat) [private]

Definition at line 1116 of file tempassembled.f90.

3.2.3 Member Data Documentation

3.2.3.1 **INTEGER CTWind::CT_DF_Y** [private]

Definition at line 389 of file tempassembled.f90.

3.2.3.2 **INTEGER CTWind::CT_DF_Z** [private]

Definition at line 390 of file tempassembled.f90.

3.2.3.3 **REAL(ReKi) CTWind::CT_Zref** [private]

Definition at line 382 of file tempassembled.f90.

3.2.3.4 **REAL(ReKi) CTWind::CTDistSc** [private]

Definition at line 369 of file tempassembled.f90.

3.2.3.5 **CHARACTER(3) CTWind::CText** [private]

Definition at line 410 of file tempassembled.f90.

3.2.3.6 **REAL(ReKi) CTWind::CTLy** [private]

Definition at line 377 of file tempassembled.f90.

3.2.3.7 **REAL(ReKi) CTWind::CTLz** [private]

Definition at line 378 of file tempassembled.f90.

3.2.3.8 **REAL(ReKi) CTWind::CTOffset** [private]

Definition at line 370 of file tempassembled.f90.

3.2.3.9 **REAL(ReKi) CTWind::CTScale** [private]

Definition at line 371 of file tempassembled.f90.

3.2.3.10 **REAL(ReKi) CTWind::CTScaleVel** [private]

Definition at line 379 of file tempassembled.f90.

3.2.3.11 CHARACTER(1024) CTWind::CTSpath [private]

Definition at line 411 of file tempassembled.f90.

3.2.3.12 INTEGER CTWind::CTvel_files [private]

Definition at line 391 of file tempassembled.f90.

3.2.3.13 REAL(ReKi), allocatable CTWind::CTvelU [private]

Definition at line 374 of file tempassembled.f90.

3.2.3.14 REAL(ReKi), allocatable CTWind::CTvelV [private]

Definition at line 375 of file tempassembled.f90.

3.2.3.15 REAL(ReKi), allocatable CTWind::CTvelW [private]

Definition at line 376 of file tempassembled.f90.

3.2.3.16 LOGICAL CTWind::CTVertShft [private]

Definition at line 408 of file tempassembled.f90.

3.2.3.17 INTEGER CTWind::CTWindUnit [private]

Definition at line 406 of file tempassembled.f90.

3.2.3.18 REAL(ReKi) CTWind::CTYHWid [private]

Definition at line 383 of file tempassembled.f90.

3.2.3.19 REAL(ReKi) CTWind::CTYmax [private]

Definition at line 384 of file tempassembled.f90.

3.2.3.20 REAL(ReKi) CTWind::CTYt [private]

Definition at line 385 of file tempassembled.f90.

3.2.3.21 REAL(ReKi) CTWind::CTZmax [private]

Definition at line 386 of file tempassembled.f90.

3.2.3.22 REAL(ReKi) CTWind::DeIYCTgrid [private]

Definition at line 367 of file tempassembled.f90.

3.2.3.23 REAL(ReKi) CTWind::DelZCTgrid [private]

Definition at line 368 of file tempassembled.f90.

3.2.3.24 INTEGER CTWind::IndCT_hi [private]

Definition at line 393 of file tempassembled.f90.

3.2.3.25 INTEGER CTWind::IndCT_lo [private]

Definition at line 394 of file tempassembled.f90.

3.2.3.26 REAL(ReKi) CTWind::InvMCTWS [private]

Definition at line 387 of file tempassembled.f90.

3.2.3.27 INTEGER, parameter CTWind::NumComps = 3 [private]

Definition at line 364 of file tempassembled.f90.

3.2.3.28 INTEGER CTWind::NumCTt [private]

Definition at line 396 of file tempassembled.f90.

3.2.3.29 INTEGER CTWind::NumCTy [private]

Definition at line 397 of file tempassembled.f90.

3.2.3.30 INTEGER CTWind::NumCTyD [private]

Definition at line 398 of file tempassembled.f90.

3.2.3.31 INTEGER CTWind::NumCTyD1 [private]

Definition at line 399 of file tempassembled.f90.

3.2.3.32 INTEGER CTWind::NumCTz [private]

Definition at line 400 of file tempassembled.f90.

3.2.3.33 INTEGER CTWind::NumCTzD [private]

Definition at line 401 of file tempassembled.f90.

3.2.3.34 INTEGER CTWind::NumCTzD1 [private]

Definition at line 402 of file tempassembled.f90.

3.2.3.35 REAL(ReKi), allocatable CTWind::Tdata [private]

Definition at line 380 of file tempassembled.f90.

3.2.3.36 INTEGER, save CTWind::TimeIndx = 0 [private]

Definition at line 403 of file tempassembled.f90.

3.2.3.37 INTEGER, allocatable CTWind::TimeStpCT [private]

Definition at line 404 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.3 CTWind::CTWindFiles Type Reference**Private Attributes**

- CHARACTER(1024) [CTTSfile](#)
- CHARACTER(1024) [CTbackgr](#)

3.3.1 Detailed Description

Definition at line 413 of file tempassembled.f90.

3.3.2 Member Data Documentation**3.3.2.1 CHARACTER(1024) CTWind::CTWindFiles::CTbackgr [private]**

Definition at line 415 of file tempassembled.f90.

3.3.2.2 CHARACTER(1024) CTWind::CTWindFiles::CTTSfile [private]

Definition at line 414 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.4 FDWind Module Reference

Public Member Functions

- subroutine, public [FD_Init](#) (UnWind, WindFile, RefHt, ErrStat)
- REAL(ReKi) function, public [FD_GetValue](#) (RVarName, ErrStat)
- TYPE(InflIntrpOut) function, public [FD_GetWindSpeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [FD_Terminate](#) (ErrStat)

Private Member Functions

- subroutine [ReadFDP](#) (UnWind, FileName, FDTsfile, ErrStat)
- subroutine [Read4Dtimes](#) (UnWind, FileName, ErrStat)
- subroutine [ReadAll4DDData](#) (UnWind, ErrStat)
- subroutine [LoadLESData](#) (UnWind, FileNo, Indx, ErrStat)
- subroutine [Read4DDData](#) (UnWind, FileName, Comp, Indx4, Scale, Offset, ErrStat)
- subroutine [Load4DDData](#) (InpIndx)

Private Attributes

- REAL(ReKi) [DelXgrid](#)
- REAL(ReKi) [DelYgrid](#)
- REAL(ReKi) [DelZgrid](#)
- REAL(ReKi) [FDper](#)
- REAL(ReKi) [FDTime](#)
- REAL(ReKi), allocatable [FDu](#)
- REAL(ReKi), allocatable [FDv](#)
- REAL(ReKi), allocatable [FDw](#)
- REAL(ReKi), allocatable [FDuData](#)
- REAL(ReKi), allocatable [FDvData](#)
- REAL(ReKi), allocatable [FDwData](#)
- REAL(ReKi) [Lx](#)
- REAL(ReKi) [Ly](#)
- REAL(ReKi) [Lz](#)
- REAL(ReKi) [Offsets](#)
- REAL(ReKi), save [PrevTime](#)
- REAL(ReKi) [RotDiam](#)
- REAL(ReKi) [ScalFact](#)
- REAL(ReKi) [ScaleVel](#)
- REAL(ReKi), 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, allocatable [Times4Dlx](#)
- INTEGER [FDUnit](#)
- LOGICAL [Advect](#)
- LOGICAL [VertShft](#)
- LOGICAL, save [Initialized](#) = .FALSE.
- CHARACTER(5), allocatable [AdvFiles](#)
- CHARACTER(1024) [FDSPath](#)

3.4.1 Detailed Description

Definition at line 1340 of file tempassembled.f90.

3.4.2 Member Function/Subroutine Documentation

3.4.2.1 **REAL(ReKi) function, public FDWind::FD_GetValue (CHARACTER(*), intent(in) RVarName, INTEGER, intent(out) ErrStat)**

Definition at line 2200 of file tempassembled.f90.

3.4.2.2 **TYPE(InflIntrpOut) function, public FDWind::FD_GetWindSpeed (REAL(ReKi), intent(in) Time, REAL(ReKi), dimension(3), intent(in) InputPosition, INTEGER, intent(out) ErrStat)**

Definition at line 2246 of file tempassembled.f90.

3.4.2.3 **subroutine, public FDWind::FD_Init (INTEGER, intent(in) UnWind, CHARACTER(*), intent(in) WindFile, REAL(ReKi), intent(in) RefHt, INTEGER, intent(out) ErrStat)**

Definition at line 1433 of file tempassembled.f90.

3.4.2.4 **subroutine, public FDWind::FD_Terminate (INTEGER, intent(out) ErrStat)**

Definition at line 2578 of file tempassembled.f90.

3.4.2.5 **subroutine FDWind::Load4DDData (INTEGER, intent(in) Inplndx) [private]**

Definition at line 2173 of file tempassembled.f90.

3.4.2.6 **subroutine FDWind::LoadLESData (INTEGER, intent(in) UnWind, INTEGER, intent(in) FileNo, INTEGER, intent(in) Indx, INTEGER, intent(out) ErrStat) [private]**

Definition at line 2051 of file tempassembled.f90.

3.4.2.7 **subroutine FDWind::Read4DDData (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 2088 of file tempassembled.f90.

3.4.2.8 **subroutine FDWind::Read4Dtimes (INTEGER, intent(in) UnWind, CHARACTER(*), intent(in) FileName, INTEGER, intent(out) ErrStat) [private]**

Definition at line 1937 of file tempassembled.f90.

3.4.2.9 **subroutine FDWind::ReadAll4DDData (INTEGER, intent(in) UnWind, INTEGER, intent(out) ErrStat) [private]**

Definition at line 2016 of file tempassembled.f90.

3.4.2.10 subroutine **FDWind::ReadFDP** (**INTEGER**, intent(in) *UnWind*, **CHARACTER**(*),
 intent(in) *FileName*, **CHARACTER**(*), intent(out) *FDTsfile*, **INTEGER**, intent(out) *ErrStat*
) [private]

Definition at line 1676 of file tempassembled.f90.

3.4.3 Member Data Documentation

3.4.3.1 **LOGICAL FDWind::Advect** [private]

Definition at line 1416 of file tempassembled.f90.

3.4.3.2 **CHARACTER(5), allocatable FDWind::AdvFiles** [private]

Definition at line 1421 of file tempassembled.f90.

3.4.3.3 **REAL(ReKi) FDWind::DelXgrid** [private]

Definition at line 1359 of file tempassembled.f90.

3.4.3.4 **REAL(ReKi) FDWind::DelYgrid** [private]

Definition at line 1360 of file tempassembled.f90.

3.4.3.5 **REAL(ReKi) FDWind::DelZgrid** [private]

Definition at line 1361 of file tempassembled.f90.

3.4.3.6 **INTEGER FDWind::FD_DF_X** [private]

Definition at line 1391 of file tempassembled.f90.

3.4.3.7 **INTEGER FDWind::FD_DF_Y** [private]

Definition at line 1392 of file tempassembled.f90.

3.4.3.8 **INTEGER FDWind::FD_DF_Z** [private]

Definition at line 1393 of file tempassembled.f90.

3.4.3.9 **INTEGER FDWind::FDFileNo** [private]

Definition at line 1394 of file tempassembled.f90.

3.4.3.10 **REAL(ReKi) FDWind::FDper** [private]

Definition at line 1362 of file tempassembled.f90.

3.4.3.11 INTEGER FDWind::FDRecL [private]

Definition at line 1395 of file tempassembled.f90.

3.4.3.12 CHARACTER(1024) FDWind::FDSPath [private]

Definition at line 1422 of file tempassembled.f90.

3.4.3.13 REAL(ReKi) FDWind::FDTime [private]

Definition at line 1363 of file tempassembled.f90.

3.4.3.14 REAL(ReKi), allocatable FDWind::FDu [private]

Definition at line 1364 of file tempassembled.f90.

3.4.3.15 REAL(ReKi), allocatable FDWind::FDuData [private]

Definition at line 1367 of file tempassembled.f90.

3.4.3.16 INTEGER FDWind::FDUnit [private]

Definition at line 1414 of file tempassembled.f90.

3.4.3.17 REAL(ReKi), allocatable FDWind::FDv [private]

Definition at line 1365 of file tempassembled.f90.

3.4.3.18 REAL(ReKi), allocatable FDWind::FDvData [private]

Definition at line 1368 of file tempassembled.f90.

3.4.3.19 REAL(ReKi), allocatable FDWind::FDw [private]

Definition at line 1366 of file tempassembled.f90.

3.4.3.20 REAL(ReKi), allocatable FDWind::FDwData [private]

Definition at line 1369 of file tempassembled.f90.

3.4.3.21 INTEGER FDWind::Ind4DAdv [private]

Definition at line 1396 of file tempassembled.f90.

3.4.3.22 INTEGER FDWind::Ind4Dnew [private]

Definition at line 1397 of file tempassembled.f90.

3.4.3.23 INTEGER FDWind::Ind4Dold [private]

Definition at line 1398 of file tempassembled.f90.

3.4.3.24 LOGICAL, save FDWind::Initialized = .FALSE. [private]

Definition at line 1419 of file tempassembled.f90.

3.4.3.25 REAL(ReKi) FDWind::Lx [private]

Definition at line 1370 of file tempassembled.f90.

3.4.3.26 REAL(ReKi) FDWind::Ly [private]

Definition at line 1371 of file tempassembled.f90.

3.4.3.27 REAL(ReKi) FDWind::Lz [private]

Definition at line 1372 of file tempassembled.f90.

3.4.3.28 INTEGER FDWind::Num4Dt [private]

Definition at line 1399 of file tempassembled.f90.

3.4.3.29 INTEGER, parameter FDWind::Num4DtD = 2 [private]

Definition at line 1400 of file tempassembled.f90.

3.4.3.30 INTEGER FDWind::Num4Dx [private]

Definition at line 1401 of file tempassembled.f90.

3.4.3.31 INTEGER FDWind::Num4DxD [private]

Definition at line 1402 of file tempassembled.f90.

3.4.3.32 INTEGER FDWind::Num4DxD1 [private]

Definition at line 1403 of file tempassembled.f90.

3.4.3.33 INTEGER FDWind::Num4Dy [private]

Definition at line 1404 of file tempassembled.f90.

3.4.3.34 INTEGER FDWind::Num4DyD [private]

Definition at line 1405 of file tempassembled.f90.

3.4.3.35 INTEGER FDWind::Num4DyD1 [private]

Definition at line 1406 of file tempassembled.f90.

3.4.3.36 INTEGER FDWind::Num4Dz [private]

Definition at line 1407 of file tempassembled.f90.

3.4.3.37 INTEGER FDWind::Num4DzD [private]

Definition at line 1408 of file tempassembled.f90.

3.4.3.38 INTEGER FDWind::Num4DzD1 [private]

Definition at line 1409 of file tempassembled.f90.

3.4.3.39 INTEGER FDWind::NumAdvect [private]

Definition at line 1410 of file tempassembled.f90.

3.4.3.40 REAL(ReKi) FDWind::Offsets [private]

Definition at line 1373 of file tempassembled.f90.

3.4.3.41 REAL(ReKi), save FDWind::PrevTime [private]

Definition at line 1374 of file tempassembled.f90.

3.4.3.42 REAL(ReKi) FDWind::RotDiam [private]

Definition at line 1375 of file tempassembled.f90.

3.4.3.43 REAL(ReKi) FDWind::ScaleVel [private]

Definition at line 1377 of file tempassembled.f90.

3.4.3.44 REAL(ReKi) FDWind::ScalFact [private]

Definition at line 1376 of file tempassembled.f90.

3.4.3.45 INTEGER FDWind::Shft4Dnew [private]

Definition at line 1411 of file tempassembled.f90.

3.4.3.46 REAL(ReKi) FDWind::T_4D_En [private]

Definition at line 1381 of file tempassembled.f90.

3.4.3.47 REAL(ReKi) **FDWind::T_4D_St** [private]

Definition at line 1382 of file tempassembled.f90.

3.4.3.48 REAL(ReKi), allocatable **FDWind::Times4D** [private]

Definition at line 1378 of file tempassembled.f90.

3.4.3.49 INTEGER, allocatable **FDWind::Times4Dlx** [private]

Definition at line 1412 of file tempassembled.f90.

3.4.3.50 REAL(ReKi) **FDWind::Tm_max** [private]

Definition at line 1379 of file tempassembled.f90.

3.4.3.51 REAL(ReKi) **FDWind::TSciFact** [private]

Definition at line 1380 of file tempassembled.f90.

3.4.3.52 LOGICAL **FDWind::VertShft** [private]

Definition at line 1417 of file tempassembled.f90.

3.4.3.53 REAL(ReKi) **FDWind::Xmax** [private]

Definition at line 1383 of file tempassembled.f90.

3.4.3.54 REAL(ReKi) **FDWind::Xt** [private]

Definition at line 1384 of file tempassembled.f90.

3.4.3.55 REAL(ReKi) **FDWind::Ymax** [private]

Definition at line 1385 of file tempassembled.f90.

3.4.3.56 REAL(ReKi) **FDWind::Yt** [private]

Definition at line 1386 of file tempassembled.f90.

3.4.3.57 REAL(ReKi) **FDWind::Zmax** [private]

Definition at line 1387 of file tempassembled.f90.

3.4.3.58 REAL(ReKi) **FDWind::Zref** [private]

Definition at line 1389 of file tempassembled.f90.

3.4.3.59 REAL(ReKi) FFWind::Zt [private]

Definition at line 1388 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.5 FFWind::FF_GetValue Interface Reference

Private Member Functions

- REAL(ReKi) function [FF_GetRValue](#) (RVarName, ErrStat)

3.5.1 Detailed Description

Definition at line 2653 of file tempassembled.f90.

3.5.2 Member Function/Subroutine Documentation

3.5.2.1 REAL(ReKi) function FFWind::FF_GetValue::FF_GetRValue (CHARACTER(*), intent(in) *RVarName*, INTEGER, intent(out) *ErrStat*) [private]

Definition at line 4208 of file tempassembled.f90.

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 [FF_Interp](#) (Time, Position, ErrStat)

Private Attributes

- REAL(ReKi), allocatable [FFData](#)
- REAL(ReKi), 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 2604 of file `tempassembled.f90`.

3.6.2 Member Function/Subroutine Documentation

3.6.2.1 REAL(ReKi) function FFWind::FF_GetRValue (CHARACTER(*), intent(in)
RVarName, INTEGER, intent(out) *ErrStat*) [private]

Definition at line 4208 of file tempassembled.f90.

3.6.2.2 TYPE(InflIntrpOut) function, public FFWind::FF_GetWindSpeed (REAL(ReKi),
 intent(in) *Time*, REAL(ReKi), dimension(3), intent(in) *InputPosition*, INTEGER, intent(out)
ErrStat)

Definition at line 4263 of file tempassembled.f90.

3.6.2.3 subroutine, public FFWind::FF_Init (INTEGER, intent(in) *UnWind*, CHARACTER(*),
 intent(in) *BinFile*, INTEGER, intent(out) *ErrStat*)

Definition at line 2665 of file tempassembled.f90.

3.6.2.4 REAL(ReKi) function FFWind::FF_Interp (REAL(ReKi), intent(in) *Time*, REAL(ReKi),
 dimension(3), intent(in) *Position*, INTEGER, intent(out) *ErrStat*) [private]

Definition at line 4325 of file tempassembled.f90.

3.6.2.5 subroutine, public FFWind::FF_Terminate (INTEGER, intent(out) *ErrStat*)

Definition at line 4626 of file tempassembled.f90.

3.6.2.6 subroutine FFWind::Read_Bladed_FF_Header0 (INTEGER, intent(in) *UnWind*,
 INTEGER, intent(out) *ErrStat*) [private]

Definition at line 2845 of file tempassembled.f90.

3.6.2.7 subroutine FFWind::Read_Bladed_FF_Header1 (INTEGER, intent(in)
UnWind, REAL(ReKi), dimension(3), intent(out) *Tl*, INTEGER, intent(out) *ErrStat*)
 [private]

Definition at line 2985 of file tempassembled.f90.

3.6.2.8 subroutine FFWind::Read_Bladed_Grids (INTEGER, intent(in) *UnWind*, LOGICAL,
 intent(in) *CWise*, REAL(ReKi), dimension (3), intent(in) *Tl*, INTEGER, intent(out) *ErrStat*)
 [private]

Definition at line 3325 of file tempassembled.f90.

3.6.2.9 subroutine FFWind::Read_FF_Tower (INTEGER, intent(in) *UnWind*,
 CHARACTER(*), intent(in) *WindFile*, INTEGER, intent(out) *ErrStat*) [private]

Definition at line 4003 of file tempassembled.f90.

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) *Tl*, **INTEGER**, intent(out)
ErrStat) [private]

Definition at line 3463 of file tempassembled.f90.

3.6.2.11 subroutine **FFWind::Read_TurbSim_FF** (**INTEGER**, intent(in) *UnWind*,
CHARACTER(*), intent(in) *WindFile*, **INTEGER**, intent(out) *ErrStat*) [private]

Definition at line 3697 of file tempassembled.f90.

3.6.3 Member Data Documentation

3.6.3.1 **REAL**(**ReKi**), allocatable **FFWind::FFData** [private]

Definition at line 2627 of file tempassembled.f90.

3.6.3.2 **REAL**(**ReKi**) **FFWind::FFDTime** [private]

Definition at line 2630 of file tempassembled.f90.

3.6.3.3 **REAL**(**ReKi**) **FFWind::FFRate** [private]

Definition at line 2631 of file tempassembled.f90.

3.6.3.4 **REAL**(**ReKi**), allocatable **FFWind::FFtower** [private]

Definition at line 2628 of file tempassembled.f90.

3.6.3.5 **REAL**(**ReKi**) **FFWind::FFYHWid** [private]

Definition at line 2632 of file tempassembled.f90.

3.6.3.6 **REAL**(**ReKi**) **FFWind::FFZHWid** [private]

Definition at line 2633 of file tempassembled.f90.

3.6.3.7 **REAL**(**ReKi**) **FFWind::GridBase** [private]

Definition at line 2635 of file tempassembled.f90.

3.6.3.8 **LOGICAL**, save **FFWind::Initialized** = **.FALSE.** [private]

Definition at line 2649 of file tempassembled.f90.

3.6.3.9 REAL(ReKi) FFWind::InitXPosition [private]

Definition at line 2636 of file tempassembled.f90.

3.6.3.10 REAL(ReKi) FFWind::InvFFYD [private]

Definition at line 2637 of file tempassembled.f90.

3.6.3.11 REAL(ReKi) FFWind::InvFFZD [private]

Definition at line 2638 of file tempassembled.f90.

3.6.3.12 REAL(ReKi) FFWind::InvMFFWS [private]

Definition at line 2639 of file tempassembled.f90.

3.6.3.13 REAL(ReKi) FFWind::MeanFFWS [private]

Definition at line 2640 of file tempassembled.f90.

3.6.3.14 INTEGER FFWind::NFFComp [private]

Definition at line 2643 of file tempassembled.f90.

3.6.3.15 INTEGER FFWind::NFFSteps [private]

Definition at line 2644 of file tempassembled.f90.

3.6.3.16 INTEGER FFWind::NTGrids [private]

Definition at line 2647 of file tempassembled.f90.

3.6.3.17 INTEGER FFWind::NYGrids [private]

Definition at line 2645 of file tempassembled.f90.

3.6.3.18 INTEGER FFWind::NZGrids [private]

Definition at line 2646 of file tempassembled.f90.

3.6.3.19 LOGICAL FFWind::Periodic = .FALSE. [private]

Definition at line 2650 of file tempassembled.f90.

3.6.3.20 REAL(ReKi) FFWind::RefHt [private]

Definition at line 2634 of file tempassembled.f90.

3.6.3.21 REAL(ReKi) FFWind::TotalTime [private]

Definition at line 2641 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.7 HAWCWind Module Reference

Public Member Functions

- subroutine, public [HW_Init](#) (UnWind, InpFileName, ErrStat)
- REAL(ReKi) function, public [HW_GetValue](#) (RVarName, ErrStat)
- TYPE(InflIntrpOut) function, public [HW_GetWindSpeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [HW_Terminate](#) (ErrStat)

Private Member Functions

- REAL(ReKi) function [HW_LinearInterp](#) (Time, Position, ErrStat)

Private Attributes

- REAL(ReKi), allocatable [WindData](#)
- REAL(ReKi) [deltaXInv](#)
- REAL(ReKi) [deltaYInv](#)
- REAL(ReKi) [deltaZInv](#)
- INTEGER, parameter [NC](#) = 3
- INTEGER [NX](#)
- INTEGER [NY](#)
- INTEGER [NZ](#)
- REAL(ReKi) [GridBase](#)
- REAL(ReKi) [LengthX](#)
- REAL(ReKi) [LengthYHalf](#)
- REAL(ReKi) [RefHt](#)
- REAL(ReKi) [URef](#)
- LOGICAL, save [Initialized](#) = .FALSE.

3.7.1 Detailed Description

Definition at line 4645 of file tempassembled.f90.

3.7.2 Member Function/Subroutine Documentation

3.7.2.1 REAL(ReKi) function, public HAWCWind::HW_GetValue (CHARACTER(*),
intent(in) *RVarName*, INTEGER, intent(out) *ErrStat*)

Definition at line 5015 of file tempassembled.f90.

3.7.2.2 TYPE(InflIntrpOut) function, public HAWCWind::HW_GetWindSpeed (REAL(ReKi), intent(in) *Time*, REAL(ReKi), dimension(3), intent(in) *InputPosition*,
INTEGER, intent(out) *ErrStat*)

Definition at line 5070 of file tempassembled.f90.

3.7.2.3 subroutine, public HAWCWind::HW_Init (INTEGER, intent(in) *UnWind*,
CHARACTER(*), intent(in) *InpFileName*, INTEGER, intent(out) *ErrStat*)

Definition at line 4694 of file tempassembled.f90.

3.7.2.4 REAL(ReKi) function HAWCWind::HW_LinearInterp (REAL(ReKi), intent(in)
Time, REAL(ReKi), dimension(3), intent(in) *Position*, INTEGER, intent(out) *ErrStat*)
[private]

Definition at line 5104 of file tempassembled.f90.

3.7.2.5 subroutine, public HAWCWind::HW_Terminate (INTEGER, intent(out) *ErrStat*)

Definition at line 5309 of file tempassembled.f90.

3.7.3 Member Data Documentation

3.7.3.1 REAL(ReKi) HAWCWind::deltaXInv [private]

Definition at line 4668 of file tempassembled.f90.

3.7.3.2 REAL(ReKi) HAWCWind::deltaYInv [private]

Definition at line 4669 of file tempassembled.f90.

3.7.3.3 REAL(ReKi) HAWCWind::deltaZInv [private]

Definition at line 4670 of file tempassembled.f90.

3.7.3.4 REAL(ReKi) HAWCWind::GridBase [private]

Definition at line 4677 of file tempassembled.f90.

3.7.3.5 LOGICAL, save HAWCWind::Initialized = .FALSE. [private]

Definition at line 4684 of file tempassembled.f90.

3.7.3.6 REAL(ReKi) HAWCWind::LengthX [private]

Definition at line 4678 of file tempassembled.f90.

3.7.3.7 REAL(ReKi) HAWCWind::LengthYHalf [private]

Definition at line 4679 of file tempassembled.f90.

3.7.3.8 INTEGER, parameter HAWCWind::NC = 3 [private]

Definition at line 4672 of file tempassembled.f90.

3.7.3.9 INTEGER HAWCWind::NX [private]

Definition at line 4673 of file tempassembled.f90.

3.7.3.10 INTEGER HAWCWind::NY [private]

Definition at line 4674 of file tempassembled.f90.

3.7.3.11 INTEGER HAWCWind::NZ [private]

Definition at line 4675 of file tempassembled.f90.

3.7.3.12 REAL(ReKi) HAWCWind::RefHt [private]

Definition at line 4680 of file tempassembled.f90.

3.7.3.13 REAL(ReKi) HAWCWind::URef [private]

Definition at line 4681 of file tempassembled.f90.

3.7.3.14 REAL(ReKi), allocatable HAWCWind::WindData [private]

Definition at line 4666 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.8 HHWind::HH_Info Type Reference

Public Attributes

- REAL(ReKi) [ReferenceHeight](#)
- REAL(ReKi) [Width](#)

3.8.1 Detailed Description

Definition at line 5376 of file tempassembled.f90.

3.8.2 Member Data Documentation

3.8.2.1 REAL(ReKi) HHWind::HH_Info::ReferenceHeight

Definition at line 5377 of file tempassembled.f90.

3.8.2.2 REAL(ReKi) HHWind::HH_Info::Width

Definition at line 5378 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.9 HHWind Module Reference

Data Types

- type [HH_Info](#)

Public Member Functions

- subroutine, public [HH_Init](#) (UnWind, WindFile, WindInfo, ErrStat)
- TYPE(InflIntrpOut) function, public [HH_GetWindSpeed](#) (Time, InputPosition, ErrStat)
- TYPE(InflIntrpOut) function, public [HH_Get_ADHack_WindSpeed](#) (Time, InputPosition, ErrStat)
- subroutine, public [HH_SetLinearizeDels](#) (Perturbations, ErrStat)
- subroutine, public [HH_Terminate](#) (ErrStat)

Private Attributes

- REAL(ReKi), allocatable [Tdata](#)

- REAL(ReKi), allocatable [DELTA](#)
- REAL(ReKi), allocatable [V](#)
- REAL(ReKi), allocatable [VZ](#)
- REAL(ReKi), allocatable [HSHR](#)
- REAL(ReKi), allocatable [VSHR](#)
- REAL(ReKi), allocatable [VLINSHR](#)
- REAL(ReKi), allocatable [VGUST](#)
- REAL(ReKi) [LinearizeDels](#)
- REAL(ReKi) [RefHt](#)
- REAL(ReKi) [RefWid](#)
- INTEGER [NumDataLines](#)
- INTEGER, save [TimeIndx](#) = 0
- LOGICAL, save [Linearize](#) = .FALSE.

3.9.1 Detailed Description

Definition at line 5326 of file tempassembled.f90.

3.9.2 Member Function/Subroutine Documentation

3.9.2.1 TYPE(InflIntrpOut) function, public HHWind::HH_Get_ADHack_WindSpeed (REAL(ReKi), intent(in) *Time*, REAL(ReKi), dimension(3), intent(in) *InputPosition*, INTEGER, intent(out) *ErrStat*)

Definition at line 5787 of file tempassembled.f90.

3.9.2.2 TYPE(InflIntrpOut) function, public HHWind::HH_GetWindSpeed (REAL(ReKi), intent(in) *Time*, REAL(ReKi), dimension(3), intent(in) *InputPosition*, INTEGER, intent(out) *ErrStat*)

Definition at line 5656 of file tempassembled.f90.

3.9.2.3 subroutine, public HHWind::HH_Init (INTEGER, intent(in) *UnWind*, CHARACTER(*), intent(in) *WindFile*, TYPE(HH_Info), intent(in) *WindInfo*, INTEGER, intent(out) *ErrStat*)

Definition at line 5389 of file tempassembled.f90.

3.9.2.4 subroutine, public HHWind::HH_SetLinearizeDels (REAL(ReKi), dimension(7), intent(in) *Perturbations*, INTEGER, intent(out) *ErrStat*)

Definition at line 5880 of file tempassembled.f90.

3.9.2.5 subroutine, public HHWind::HH_Terminate (INTEGER, intent(out) *ErrStat*)

Definition at line 5906 of file tempassembled.f90.

3.9.3 Member Data Documentation

3.9.3.1 REAL(ReKi), allocatable HHWind::DELTA [private]

Definition at line 5359 of file tempassembled.f90.

3.9.3.2 REAL(ReKi), allocatable HHWind::HSHR [private]

Definition at line 5362 of file tempassembled.f90.

3.9.3.3 LOGICAL, save HHWind::Linearize = .FALSE. [private]

Definition at line 5374 of file tempassembled.f90.

3.9.3.4 REAL(ReKi) HHWind::LinearizeDels [private]

Definition at line 5367 of file tempassembled.f90.

3.9.3.5 INTEGER HHWind::NumDataLines [private]

Definition at line 5371 of file tempassembled.f90.

3.9.3.6 REAL(ReKi) HHWind::RefHt [private]

Definition at line 5368 of file tempassembled.f90.

3.9.3.7 REAL(ReKi) HHWind::RefWid [private]

Definition at line 5369 of file tempassembled.f90.

3.9.3.8 REAL(ReKi), allocatable HHWind::Tdata [private]

Definition at line 5358 of file tempassembled.f90.

3.9.3.9 INTEGER, save HHWind::TimeIndx = 0 [private]

Definition at line 5372 of file tempassembled.f90.

3.9.3.10 REAL(ReKi), allocatable HHWind::V [private]

Definition at line 5360 of file tempassembled.f90.

3.9.3.11 REAL(ReKi), allocatable HHWind::VGUST [private]

Definition at line 5365 of file tempassembled.f90.

3.9.3.12 REAL(ReKi), allocatable HHWind::VLINSHR [private]

Definition at line 5364 of file tempassembled.f90.

3.9.3.13 REAL(ReKi), allocatable HHWind::VSHR [private]

Definition at line 5363 of file tempassembled.f90.

3.9.3.14 REAL(ReKi), allocatable HHWind::VZ [private]

Definition at line 5361 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.10 SharedInflowDefs::IfW_ConstraintStateType Type Reference

Public Attributes

- REAL(ReKi) [DummyConstrState](#)

3.10.1 Detailed Description

Definition at line 68 of file tempassembled.f90.

3.10.2 Member Data Documentation

3.10.2.1 REAL(ReKi) SharedInflowDefs::IfW_ConstraintStateType::DummyConstr-State

Definition at line 70 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.11 SharedInflowDefs::IfW_ContinuousStateType Type Reference

Public Attributes

- REAL(ReKi) [DummyContState](#)

3.11.1 Detailed Description

Definition at line 54 of file tempassembled.f90.

3.11.2 Member Data Documentation

3.11.2.1 REAL(ReKi) SharedInflowDefs::IfW_ContinuousStateType::DummyCont-State

Definition at line 56 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.12 SharedInflowDefs::IfW_DiscreteStateType Type Reference

Public Attributes

- REAL(ReKi) [DummyDiscState](#)

3.12.1 Detailed Description

Definition at line 62 of file tempassembled.f90.

3.12.2 Member Data Documentation

3.12.2.1 REAL(ReKi) SharedInflowDefs::IfW_DiscreteStateType::DummyDiscState

Definition at line 64 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.13 Ifw_Driver.Types::IfW_Driver_ArgFlags Type Reference

Public Attributes

- LOGICAL [WindFileType](#) = .FALSE.
- LOGICAL [Height](#) = .FALSE.
- LOGICAL [Width](#) = .FALSE.
- LOGICAL [Xrange](#) = .FALSE.
- LOGICAL [Yrange](#) = .FALSE.
- LOGICAL [Zrange](#) = .FALSE.
- LOGICAL [Trange](#) = .FALSE.
- LOGICAL [Xres](#) = .FALSE.

- LOGICAL Yres = .FALSE.
- LOGICAL Zres = .FALSE.
- LOGICAL Tres = .FALSE.
- LOGICAL ParaPrint = .FALSE.
- LOGICAL Summary = .FALSE.
- LOGICAL fft = .FALSE.
- LOGICAL PointsFile = .FALSE.

3.13.1 Detailed Description

Definition at line 7263 of file tempassembled.f90.

3.13.2 Member Data Documentation

3.13.2.1 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::fft = .FALSE.

Definition at line 7277 of file tempassembled.f90.

3.13.2.2 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Height = .FALSE.

Definition at line 7265 of file tempassembled.f90.

3.13.2.3 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::ParaPrint = .FALSE.

Definition at line 7275 of file tempassembled.f90.

3.13.2.4 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::PointsFile = .FALSE.

Definition at line 7278 of file tempassembled.f90.

3.13.2.5 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Summary = .FALSE.

Definition at line 7276 of file tempassembled.f90.

3.13.2.6 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Trange = .FALSE.

Definition at line 7270 of file tempassembled.f90.

3.13.2.7 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Tres = .FALSE.

Definition at line 7274 of file tempassembled.f90.

3.13.2.8 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Width = .FALSE.

Definition at line 7266 of file tempassembled.f90.

3.13.2.9 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::WindFileType = .FALSE.

Definition at line 7264 of file tempassembled.f90.

3.13.2.10 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Xrange = .FALSE.

Definition at line 7267 of file tempassembled.f90.

3.13.2.11 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Xres = .FALSE.

Definition at line 7271 of file tempassembled.f90.

3.13.2.12 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Yrange = .FALSE.

Definition at line 7268 of file tempassembled.f90.

3.13.2.13 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Yres = .FALSE.

Definition at line 7272 of file tempassembled.f90.

3.13.2.14 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Zrange = .FALSE.

Definition at line 7269 of file tempassembled.f90.

3.13.2.15 LOGICAL Ifw_Driver_Types::IfW_Driver_ArgFlags::Zres = .FALSE.

Definition at line 7273 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.14 Ifw_Driver_Types::IfW_Driver_Args Type Reference

Public Attributes

- INTEGER [WindFileType](#) = DEFAULT_WIND
- REAL(ReKi) [Height](#)
- REAL(ReKi) [Width](#)
- REAL(ReKi) [Xrange](#)
- REAL(ReKi) [Yrange](#)
- REAL(ReKi) [Zrange](#)
- REAL(ReKi) [Trange](#)
- REAL(ReKi) [Xres](#)
- REAL(ReKi) [Yres](#)
- REAL(ReKi) [Zres](#)

- REAL(ReKi) [Tres](#)
- REAL(ReKi), dimension(1:3) [fft](#)
- CHARACTER(1024) [PointsFile](#)
- CHARACTER(1024) [InputFile](#)

3.14.1 Detailed Description

Definition at line 7283 of file tempassembled.f90.

3.14.2 Member Data Documentation

3.14.2.1 REAL(ReKi), dimension(1:3) Ifw_Driver_Types::IfW_Driver_Args::fft

Definition at line 7295 of file tempassembled.f90.

3.14.2.2 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Height

Definition at line 7285 of file tempassembled.f90.

3.14.2.3 CHARACTER(1024) Ifw_Driver_Types::IfW_Driver_Args::InputFile

Definition at line 7297 of file tempassembled.f90.

3.14.2.4 CHARACTER(1024) Ifw_Driver_Types::IfW_Driver_Args::PointsFile

Definition at line 7296 of file tempassembled.f90.

3.14.2.5 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Trange

Definition at line 7290 of file tempassembled.f90.

3.14.2.6 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Tres

Definition at line 7294 of file tempassembled.f90.

3.14.2.7 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Width

Definition at line 7286 of file tempassembled.f90.

3.14.2.8 INTEGER Ifw_Driver_Types::IfW_Driver_Args::WindFileType = DEFAULT_WIND

Definition at line 7284 of file tempassembled.f90.

3.14.2.9 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Xrange

Definition at line 7287 of file tempassembled.f90.

3.14.2.10 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Xres

Definition at line 7291 of file tempassembled.f90.

3.14.2.11 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Yrange

Definition at line 7288 of file tempassembled.f90.

3.14.2.12 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Yres

Definition at line 7292 of file tempassembled.f90.

3.14.2.13 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Zrange

Definition at line 7289 of file tempassembled.f90.

3.14.2.14 REAL(ReKi) Ifw_Driver_Types::IfW_Driver_Args::Zres

Definition at line 7293 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.15 Ifw_Driver_Subs Module Reference**Public Member Functions**

- subroutine [DispHelpText](#) (ErrStat, ErrMsg)
- subroutine [RetrieveArgs](#) (Settings, SettingsFlags, ErrStat, ErrMsg)

3.15.1 Detailed Description

Definition at line 7324 of file tempassembled.f90.

3.15.2 Member Function/Subroutine Documentation**3.15.2.1 subroutine Ifw_Driver_Subs::DispHelpText (INTEGER(IntKi), intent(out) ErrStat, CHARACTER(1024), intent(out) ErrMsg)**

Definition at line 7333 of file tempassembled.f90.

3.15.2.2 subroutine Ifw_Driver_Subs::RetrieveArgs (TYPE(IfW_Driver_Args), intent(out) *Settings*, TYPE(IfW_Driver_ArgFlags), intent(out) *SettingsFlags*, INTEGER(IntKi), intent(out) *ErrStat*, CHARACTER(1024), intent(out) *ErrMsg*)

Definition at line 7387 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](#)

3.16 Ifw_Driver_Types Module Reference

Data Types

- type [IfW_Driver_ArgFlags](#)
- type [IfW_Driver_Args](#)

3.16.1 Detailed Description

Definition at line 7255 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.17 SharedInflowDefs::IfW_InitInputType Type Reference

Public Attributes

- CHARACTER(1024) [WindFileName](#)
- INTEGER [WindFileType](#)
- REAL(ReKi) [ReferenceHeight](#)
- REAL(ReKi) [Width](#)

3.17.1 Detailed Description

Definition at line 40 of file tempassembled.f90.

3.17.2 Member Data Documentation

3.17.2.1 REAL(ReKi) SharedInflowDefs::IfW_InitInputType::ReferenceHeight

Definition at line 47 of file tempassembled.f90.

3.17.2.2 REAL(ReKi) SharedInflowDefs::IfW_InitInputType::Width

Definition at line 48 of file tempassembled.f90.

3.17.2.3 CHARACTER(1024) SharedInflowDefs::IfW_InitInputType::WindFileName

Definition at line 44 of file tempassembled.f90.

3.17.2.4 INTEGER SharedInflowDefs::IfW_InitInputType::WindFileType

Definition at line 45 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.18 SharedInflowDefs::IfW_InputType Type Reference

Public Attributes

- REAL(ReKi) [DummyInput](#)

3.18.1 Detailed Description

Definition at line 108 of file tempassembled.f90.

3.18.2 Member Data Documentation

3.18.2.1 REAL(ReKi) SharedInflowDefs::IfW_InputType::DummyInput

Definition at line 112 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.19 SharedInflowDefs::IfW_OtherStateType Type Reference

Public Attributes

- INTEGER(IntKi) [DummyOtherState](#)

3.19.1 Detailed Description

Definition at line 74 of file tempassembled.f90.

3.19.2 Member Data Documentation

3.19.2.1 INTEGER(IntKi) SharedInflowDefs::IfW_OtherStateType::DummyOtherState

Definition at line 77 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.20 SharedInflowDefs::IfW_OutputType Type Reference

Public Attributes

- REAL(ReKi) [DummyOutput](#)

3.20.1 Detailed Description

Definition at line 118 of file tempassembled.f90.

3.20.2 Member Data Documentation

3.20.2.1 REAL(ReKi) SharedInflowDefs::IfW_OutputType::DummyOutput

Definition at line 122 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.21 SharedInflowDefs::IfW_ParameterType Type Reference

Public Attributes

- CHARACTER(1024) [WindFileName](#)
- CHARACTER(1024) [WindFileNameRoot](#)
- CHARACTER(3) [WindFileNameExt](#)
- INTEGER [WindFileType](#) = 0
- REAL(ReKi) [ReferenceHeight](#)
- REAL(ReKi) [Width](#)
- REAL(ReKi) [HalfWidth](#)
- LOGICAL [CT_Flag](#) = .FALSE.
- LOGICAL [Initialized](#) = .FALSE.

3.21.1 Detailed Description

Definition at line 83 of file tempassembled.f90.

3.21.2 Member Data Documentation

3.21.2.1 LOGICAL SharedInflowDefs::IfW_ParameterType::CT_Flag = .FALSE.

Definition at line 100 of file tempassembled.f90.

3.21.2.2 REAL(ReKi) SharedInflowDefs::IfW_ParameterType::HalfWidth

Definition at line 97 of file tempassembled.f90.

3.21.2.3 LOGICAL SharedInflowDefs::IfW_ParameterType::Initialized = .FALSE.

Definition at line 101 of file tempassembled.f90.

3.21.2.4 REAL(ReKi) SharedInflowDefs::IfW_ParameterType::ReferenceHeight

Definition at line 94 of file tempassembled.f90.

3.21.2.5 REAL(ReKi) SharedInflowDefs::IfW_ParameterType::Width

Definition at line 95 of file tempassembled.f90.

3.21.2.6 CHARACTER(1024) SharedInflowDefs::IfW_ParameterType::WindFileName

Definition at line 88 of file tempassembled.f90.

3.21.2.7 CHARACTER(3) SharedInflowDefs::IfW_ParameterType::WindFileNameExt

Definition at line 90 of file tempassembled.f90.

3.21.2.8 CHARACTER(1024) SharedInflowDefs::IfW_ParameterType::WindFileName-Root

Definition at line 89 of file tempassembled.f90.

3.21.2.9 INTEGER SharedInflowDefs::IfW_ParameterType::WindFileType = 0

Definition at line 91 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.22 SharedInflowDefs::InflIntrpOut Type Reference

Public Attributes

- REAL(ReKi) [Velocity](#)

3.22.1 Detailed Description

Definition at line 139 of file tempassembled.f90.

3.22.2 Member Data Documentation

3.22.2.1 REAL(ReKi) SharedInflowDefs::InflIntrpOut::Velocity

Definition at line 140 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.23 InflowWind_Module Module Reference

Public Member Functions

- subroutine, public [IfW_Init](#) (InitData, InputGuess, ParamData, ContStates, DiscStates, ConstrStateGuess, OtherStates, OutData, Interval, ErrStat, ErrMsg)

- TYPE(InflIntrpOut) function, public [InflowWind_GetVelocity](#) (ParamData, Time, - InputPosition, ErrStat)
- subroutine, public [IfW_End](#) (InitData, ParamData, ContStates, DiscStates, - ConstrStateGuess, OtherStates, OutData, ErrStat, ErrMsg)

Private Attributes

- INTEGER(IntKi), parameter [DataFormatID](#) = 1
- TYPE(ProgDesc), parameter [IfW_ProgDesc](#) = ProgDesc('InflowWind', 'v1.00.-00', '27-Dec-2012')
- INTEGER [UnWind](#) = 91

3.23.1 Detailed Description

Definition at line 6786 of file tempassembled.f90.

3.23.2 Member Function/Subroutine Documentation

3.23.2.1 subroutine, public [InflowWind_Module::IfW_End](#) (TYPE(IfW_InitInputType), intent(inout) *InitData*, TYPE(Ifw_ParameterType), intent(inout) *ParamData*, TYPE(IfW_ContinuousStateType), intent(inout) *ContStates*, TYPE(IfW_DiscreteStateType), intent(inout) *DiscStates*, TYPE(IfW_ConstraintStateType), intent(inout) *ConstrStateGuess*, TYPE(IfW_OtherStateType), intent(inout) *OtherStates*, TYPE(IfW_OutputType), intent(inout) *OutData*, INTEGER(IntKi), intent(out) *ErrStat*, CHARACTER(*), intent(out) *ErrMsg*)

Definition at line 7156 of file tempassembled.f90.

3.23.2.2 subroutine, public [InflowWind_Module::IfW_Init](#) (TYPE(IfW_InitInputType), intent(in) *InitData*, TYPE(IfW_InputType), intent(out) *InputGuess*, TYPE(Ifw_ParameterType), intent(out) *ParamData*, TYPE(IfW_ContinuousStateType), intent(out) *ContStates*, TYPE(IfW_DiscreteStateType), intent(out) *DiscStates*, TYPE(IfW_ConstraintStateType), intent(out) *ConstrStateGuess*, TYPE(IfW_OtherStateType), intent(out) *OtherStates*, TYPE(IfW_OutputType), intent(out) *OutData*, REAL(DbKi), intent(inout) *Interval*, INTEGER(IntKi), intent(out) *ErrStat*, CHARACTER(*), intent(out) *ErrMsg*)

Definition at line 6879 of file tempassembled.f90.

3.23.2.3 `TYPE(InflIntrpOut)` function, public `InflowWind_Module::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 7091 of file `tempassembled.f90`.

3.23.3 Member Data Documentation

3.23.3.1 `INTEGER(IntKi), parameter InflowWind_Module::DataFormatID = 1`
[private]

Definition at line 6818 of file `tempassembled.f90`.

3.23.3.2 `TYPE(ProgDesc), parameter InflowWind_Module::IfW_ProgDesc = ProgDesc('InflowWind', 'v1.00.00', '27-Dec-2012')` [private]

Definition at line 6820 of file `tempassembled.f90`.

3.23.3.3 `INTEGER InflowWind_Module::UnWind = 91` [private]

Definition at line 6854 of file `tempassembled.f90`.

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

- [tempassembled.f90](#)

3.24 InflowWind_Subs Module Reference

Public Member Functions

- subroutine [GetWindType](#) (ParamData, ErrStat, ErrMsg)
- subroutine [InflowWind_LinearizePerturbation](#) (ParamData, LinPerturbations, ErrStat)
- `REAL(ReKi)` function [InflowWind_ADhack_Dlcheck](#) (ParamData, ErrStat)

3.24.1 Detailed Description

Definition at line 6141 of file `tempassembled.f90`.

3.24.2 Member Function/Subroutine Documentation

3.24.2.1 subroutine `InflowWind_Subs::GetWindType` (`TYPE(IfW_ParameterType)`,
`intent(inout) ParamData`, `INTEGER(IntKi)`, `intent(out) ErrStat`, `CHARACTER(*)`,
`intent(out) ErrMsg`)

Definition at line 6194 of file `tempassembled.f90`.

3.24.2.2 `REAL(ReKi)` function `InflowWind_Subs::InflowWind_ADhack_Dlcheck` (`TYPE(IfW_ParameterType)`, `intent(inout) ParamData`, `INTEGER`, `intent(out) ErrStat`)

Definition at line 6472 of file `tempassembled.f90`.

3.24.2.3 subroutine `InflowWind_Subs::InflowWind_LinearizePerturbation` (`TYPE(IfW_ParameterType)`, `intent(inout) ParamData`, `REAL(ReKi)`, `dimension(7)`, `intent(in) LinPerturbations`, `INTEGER`, `intent(out) ErrStat`)

Definition at line 6312 of file `tempassembled.f90`.

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

- [tempassembled.f90](#)

3.25 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](#)

3.25.1 Detailed Description

Definition at line 12 of file `tempassembled.f90`.

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

- [tempassembled.f90](#)

3.26 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](#)

3.26.1 Detailed Description

Definition at line 5944 of file tempassembled.f90.

3.26.2 Member Function/Subroutine Documentation

- 3.26.2.1 REAL(ReKi) function, public [UserWind::UsrWnd_GetValue](#) (CHARACTER(*),
intent(in) *VarName*, INTEGER, intent(out) *ErrStat*)

Definition at line 6018 of file tempassembled.f90.

- 3.26.2.2 TYPE(InflIntrpOut) function, public [UserWind::UsrWnd_GetWindSpeed](#)
(REAL(ReKi), intent(in) *Time*, REAL(ReKi), dimension(3), intent(in) *InputPosition*,
INTEGER, intent(out) *ErrStat*)

Definition at line 6072 of file tempassembled.f90.

- 3.26.2.3 subroutine, public [UserWind::UsrWnd_Init](#) (INTEGER, intent(out) *ErrStat*)

Definition at line 5974 of file tempassembled.f90.

- 3.26.2.4 subroutine, public [UserWind::UsrWnd_Terminate](#) (INTEGER, intent(out) *ErrStat*
)

Definition at line 6113 of file tempassembled.f90.

3.26.3 Member Data Documentation

3.26.3.1 LOGICAL, save UserWind::Initialized = .FALSE. [private]

Definition at line 5958 of file tempassembled.f90.

3.26.3.2 REAL(ReKi) UserWind::UWmeanU [private]

Definition at line 5960 of file tempassembled.f90.

3.26.3.3 REAL(ReKi) UserWind::UWmeanV [private]

Definition at line 5961 of file tempassembled.f90.

3.26.3.4 REAL(ReKi) UserWind::UWmeanW [private]

Definition at line 5962 of file tempassembled.f90.

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

- [tempassembled.f90](#)

3.27 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

3.27.1 Detailed Description

Definition at line 301 of file tempassembled.f90.

3.27.2 Member Data Documentation

3.27.2.1 INTEGER, parameter WindFile_Types::CTP_Wind = 5

Definition at line 337 of file tempassembled.f90.

3.27.2.2 INTEGER, parameter WindFile_Types::DEFAULT_Wind = -1

Definition at line 331 of file tempassembled.f90.

3.27.2.3 INTEGER, parameter WindFile_Types::FD_Wind = 4

Definition at line 336 of file tempassembled.f90.

3.27.2.4 INTEGER, parameter WindFile_Types::FF_Wind = 2

Definition at line 334 of file tempassembled.f90.

3.27.2.5 INTEGER, parameter WindFile_Types::HAWC_Wind = 6

Definition at line 338 of file tempassembled.f90.

3.27.2.6 INTEGER, parameter WindFile_Types::HH_Wind = 1

Definition at line 333 of file tempassembled.f90.

3.27.2.7 INTEGER, parameter WindFile_Types::UD_Wind = 3

Definition at line 335 of file tempassembled.f90.

3.27.2.8 INTEGER, parameter WindFile_Types::Undef_Wind = 0

Definition at line 332 of file tempassembled.f90.

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

- [tempassembled.f90](#)

4 File Documentation

4.1 tempassembled.f90 File Reference

Data Types

- module [SharedInflowDefs](#)
- type [SharedInflowDefs::IfW_InitInputType](#)
- type [SharedInflowDefs::IfW_ContinuousStateType](#)
- type [SharedInflowDefs::IfW_DiscreteStateType](#)
- type [SharedInflowDefs::IfW_ConstraintStateType](#)
- type [SharedInflowDefs::IfW_OtherStateType](#)
- type [SharedInflowDefs::IfW_ParameterType](#)
- type [SharedInflowDefs::IfW_InputType](#)

- type [SharedInflowDefs::IfW_OutputType](#)
- type [SharedInflowDefs::InflIntrpOut](#)
- module [WindFile_Types](#)
- module [CTWind](#)
- type [CTWind::CTWindFiles](#)
- type [CTWind::CT_Backgr](#)
- module [FDWind](#)
- module [FFWind](#)
- interface [FFWind::FF_GetValue](#)
- module [HAWCWind](#)
- module [HHWind](#)
- type [HHWind::HH_Info](#)
- module [UserWind](#)
- module [InflowWind_Sub](#)
- module [InflowWind_Module](#)
- module [Ifw_Driver_Types](#)
- type [Ifw_Driver_Types::IfW_Driver_ArgFlags](#)
- type [Ifw_Driver_Types::IfW_Driver_Args](#)
- module [Ifw_Driver_Sub](#)

Functions/Subroutines

- REAL(ReKi) function [StringToReal](#) (StringIn, ErrStat)
- subroutine [ParseArg](#) (Settings, SettingsFlags, ThisArg, ErrStat, ErrMsg)
- program [InflowWind_Driver](#)

4.1.1 Function/Subroutine Documentation

4.1.1.1 program InflowWind_Driver ()

Definition at line 7979 of file tempassembled.f90.

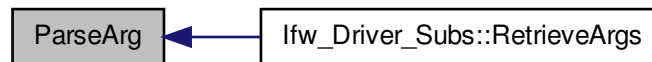
4.1.1.2 subroutine **RetrieveArgs::ParseArg** (TYPE(IfW_Driver_Args), intent(inout) *Settings*,
TYPE(IfW_Driver_ArgFlags), intent(inout) *SettingsFlags*, CHARACTER(*), intent(in)
ThisArg, INTEGER(IntKi), intent(out) *ErrStat*, CHARACTER(1024), intent(out) *ErrMsg*)

Definition at line 7508 of file tempassembled.f90.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.1.3 REAL(ReKi) function `RetrieveArgs::StringToReal` (`CHARACTER(*)`, intent(in) `StringIn`, `INTEGER(IntKi)`, intent(out) `ErrStat`)

Definition at line 7479 of file `tempassembled.f90`.

Here is the caller graph for this function:

