CALL Dvr_Init (Noise_Driver_Subs.f90): Initialize the driver: writes some messages on the screen, reads in the '.dvr' ,

reads in 'blade1.dat' name is .dvr , reads the name of the noise input file, validates the input (not fully because FAST glue code does this

LOOP OVER EACH CASE

CALL Init_Noise (Noise_Driver_Subs.f90) Initialize the Noise module,Assign some variables from DvrData% to

InitInData%

call NN_Init (Noise.f90)

call ReadInputFiles( Noise_IO )

call ValidateInputData( Noise.f90 )

call SetParameters (Noise.f90): assign input data to parameters e.g. BlNds,

AirDens, KinVisc, SpdSound, NrObsLoc, Assign      FreqList

call Init_u (noise.f90): BLTECo, BLLECo, AoANoise, Vrel (inputs)

call Init_y (Noise.f90: y%WriteOutput , y%SumSpecNoise  (outputs)

call Init_MiscVars : All the miscellaneous

call Init_States: xd%VrelSq , xd%MeanVrel, xd%TIVrel

call NN_SetInitOut (not used should be used)

call Set_NN_Inputs (Noise_Driver_Subs.f90)

CALL Dvr_InitializeOutputFile (Noise_Driver_Subs.f90) : Writes the header etc in the output file

LOOP OVER EACH TIME STEP

CALL Set_NN_Inputs (Noise_Driver_Subs.f90): These will come from FAST glue code e.g. here it is the blades are

rotated the inflow velocity is updated (only horizontal), relative velocity is calculated

CALL NN_CalcOutput(Noise.f90) :

call CalcObserve   ( Noise.f90 ),   call CalcNoiseOutput ( Noise.f90 ), call Calc_WriteOutput ( Noise.f90 )

CALL Dvr_WriteOutputLine (Noise_Driver_Subs.f90) : writes line output

CALL NN_UpdateStates (Noise.f90) : Update States- Vrel2,MeanVrel,TI

END LOOP

CALL NN_End

CALL NN_DestroyInput

END LOOP

CALL Dvr_End