

Output data

Here we show an example of usual data acquisition :

- Instantaneous fields
- Statistical fields
- Time series from probes located at specific positions

The various parameters related to each type of output data are originally splitted by topic in the appropriate namelist. For a sake of clarity, they are directly regrouped for each type of output data as shown here :

For instantaneous fields

```
&Field_Recording_Setup          Precision_On_Instantaneous_Fields= 2 /
!--- option value for writing results in double precision (1 = single
precision)
&Simulation_Management          Fields_Recording_Rate = 1.0D-00 /
!--- Recording rate (in time unit)
&Instantaneous_Fields_Listing   Name_of_Field = "U" , Recording_Enabled =
.true. /      !--- Recording of the first velocity component enabled
&Instantaneous_Fields_Listing   Name_of_Field = "V" , Recording_Enabled =
.true. /      !--- Recording of the second velocity component enabled
&Instantaneous_Fields_Listing   Name_of_Field = "W" , Recording_Enabled =
.false. /     !--- Recording of the Third velocity component disabled
&Instantaneous_Fields_Listing   Name_of_Field = "T" , Recording_Enabled =
.true. /      !--- Recording Temperature enabled
&Instantaneous_Fields_Listing   Name_of_Field = "P" , Recording_Enabled =
.true. /      !--- Recording Pressure enabled
```

For statistical fields

```
&Simulation_Management Start_Time_For_Statistics= 1.D+2          ,
!--- Start time for computing the statistical fields
                                Time_Range_Statistic_Calculation = 1.D+00 /
!--- time range over which the statistical field computation is performed.
When it has been covered, the results are recorded and a new statistical
computation starts again
&Field_Recording_Setup          Precision_On_Statistical_Fields= 2 ,
!--- option value for writing results in double precision (1 = single
precision)
                                Time_Statistics_Enabled= .true. ,
!--- time statistics are performed (true) - classical statistics (false)
                                Sample_Rate_For_Statistics= 1 ,
!--- Sample rate (in time iteration unit)
                                Statistic_Space_Average_Type=
"NO_SPACE_AVERAGE" /      !--- option on spatial averaged fields
&Statistical_Fields_Listing     Name_of_Field = "<U>" , Recording_Enabled =
.true. /      !---- Averaged I-velocity component
&Statistical_Fields_Listing     Name_of_Field = "<V>" , Recording_Enabled =
```

```
.true. / !---- Averaged J-velocity component
&Statistical_Fields_Listing Name_of_Field = "<P> " , Recording_Enabled =
.true. / !---- Averaged pressure
```

For time-series from probes

```

, V      , W      , T      , P      , RHO      U
&Probe_Quantities_Enabled Temporal_Series_For_Quantity_Enabled(:)= .true.
, .true., .false., .false., .true., .false. / !--- Selection of
physical quantities
&Simulation_Management Probe_Recording_Rate = 10
/ !--- Recording rate (in time-iteration unit)
&Probe_Location Xi= 2.0 , Xj= 1.5 , Xk= 0.0 / !---coordinates of
probe 1
&Probe_Location Xi= 3.0 , Xj= 1.0 , Xk= 0.0 / !---coordinates of
probe 2
```

Any information about these namelist are available here :



- [Simulation_Management](#)
- [Field_Recording_Setup](#)
- [Instantaneous_Fields_Listing](#)
- [Statistical_Fields_Listing](#)
- [Probe_Quantities_Enabled](#)
- [Probe_Location](#)

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