

Namelist "Field_Recording_Setup"

This data set allows the user

- to define the precision (simple or double) on the data related to the instantaneous fields and the statistical fields.
- to reduce the dimension of the statistical fields in order to get a profile along a given direction. The reduction is made by space averaging over the other directions.

Full data set of the namelist

```
&Field_Recording_Setup Precision_On_Instantaneous_Fields= 1,
Precision_On_Statistical_Fields= 2 ,
                        Time_Statistics_Enabled= .true. ,
Sample_Rate_For_Statistics= 1 ,
                        Statistic_Space_Average_Type= "NO_SPACE_AVERAGE" /
```

Precision_On_Instantaneous_Fields

- Type : Integer Value
 - 1 : Instantaneous fields are recorded in single precision (r4).
 - 2 : Instantaneous fields are recorded in double precision (r8).

Precision_On_Statistical_Fields

- Type : Integer Value
 - 1 : Statistical fields are recorded in single precision (r4).
 - 2 : Statistical fields are recorded in double precision (r8).

Time_Statistics_Enabled

- Type : Boolean value
 - .true. : The statistical computation yields time mean-values. For a field $f(x,y,z,t)$ the statistical computation yields : $\overline{f(x,y,z)} = \frac{1}{T} \int_0^T f(x,y,z,t) dt$

Statistic_Profiles

- Type : integer value
- This data defines the direction in which the profile of a statistical quantity is calculated. A space average is performed over the others directions.
 - 0 : Statistical fields are not reduced in a profile along a specific direction.
 - 1 : The profile is calculated along the I-direction.

- 2 : The profile is calculated along the J-direction.
- 3 : The profile is calculated along the K-direction.

From:

<https://sunfluidh.lisn.upsaclay.fr/> - Documentation du code de simulation numérique SUNFLUIDH

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