A simple example of data setting

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The cell size is variable along the I-direction.

- The I-line is split in two equal parts.
- The function “TANH_ONE_SIDE” is applied over each part, with a reverse distribution over the 2nd part. This way is useful to define a perfect symmetrical distribution in regard to the mid-plane.

The grid is regular along the J-direction.

data_meshgen.dat

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================================================================================
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            DATA FILE FOR THE MESH GENERATOR MESHGEN (DESCRIPTIONS OF
DATA ARE GIVEN BELOW)
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Blocks of data are associated to segments along a specific direction
(There are as many blocks as segments)
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---------------------------------------
I-DIRECTION
---------------------------------------
Choice of the metric system :  in meter or dimensionless  (0)  -
angular in degrees (1)     :
&METRIC_UNIT         Type_of_Metric= 0 /
&MESH_FUNCTION_DATA Function_Name="TANH_ONE_SIDE" Number_of_Cells= 32
Length= 0.5  Left_Cell_Size= 7.8125d-03 Reverse_Ordering= .false. /
&MESH_FUNCTION_DATA Function_Name="TANH_ONE_SIDE" Number_of_Cells= 32
Length= 0.5  Left_Cell_Size= 7.8125d-03 Reverse_Ordering= .true. /
&MESH_FUNCTION_DATA End_of_Data_Block = .true./
---------------------------------------
J-DIRECTION
---------------------------------------
Choice of the metric system :  in meter or dimensionless  (0)  -
angular in degrees (1)     :
&METRIC_UNIT         Type_of_Metric= 0 /
&MESH_FUNCTION_DATA  Function_Name="REGULAR"           Number_of_Cells=
64  Length= 1.0   Reverse_Ordering= .false. /
```

```
&MESH_FUNCTION_DATA End_of_Data_Block = .true./
---------------------------------------
K-DIRECTION
---------------------------------------

&MESH_FUNCTION_DATA End_of_Data_Block = .true./

END OF FILE
```

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