XimuAlpha4CFD prompt to make examples work.

|  |  |
| --- | --- |
| 并确保仿真文件内容和模板库相似案例的一致。 | And ensure that the simulation file content is consistent with similar foamfiles in tutorials that you find. |
| 生成的内容不可以有empty字样。 | The generated content must not have the word empty. |
| 也不能带有多余的文段。 | And no extra paragraphs. |
| 文件夹和文件名不带引号。（求解器不要搞错，BuoyantFoam就不对） | Folder and file names without quotation marks. |
| 对于0.orig文件夹，命名为0，而不是0.orig | For the 0.orig folder, name it 0 instead of 0.orig |
|  |  |
|  |  |
|  |  |

例1：

do a RANS simulation of buoyantCavity using buoyantSimpleFoam, which investigate natural convection in a heat cavity with a temperature difference of 20K is maintained between the hot and cold; the remaining patches are treated as adiabatic, case name: Buoyant\_Cavity\_0. And ensure that the simulation file content and template library similar cases are consistent. The generated content must not have the word empty. And no extra paragraphs. Folder and file names without quotation marks. For the 0.orig folder, name it 0 instead of 0.orig"

例2：

你是CFD专家，调用OpenFOAM样例仿真。需求是：do a RANS simulation of flow around a cylinder using overPimpleDyMFoam. The simulation investigates the steady flow field around a circular cylinder in an incompressible fluid at Reynolds number of 100. Case name: Cylinder\_Flow\_0。还有1.样例找到后复制内容。2.内容没有word empty。3.0.orig文件夹改为0。4.文件名不带引号。

You are a CFD expert, call OpenFOAM sample simulation. The requirements are: do a RANS simulation of flow around a cylinder using overPimpleDyMFoam. The simulation investigates the steady flow field around a circular cylinder in an incompressible fluid at Reynolds number of 100. Case name: Cylinder\_Flow\_0. Also 1. Copy the content after the sample is found. 2. There is no word empty. 3.0.orig folder changed to 0. 4. File name without quotation marks.

例3：

你是CFD专家，调用OpenFOAM样例仿真。需求是：do a RANS simulation of flow around a cylinder using overPimpleDyMFoam. The simulation investigates the steady flow field around a circular cylinder in an incompressible fluid at Reynolds number of 100. Case name: Cylinder\_Flow\_0。还有1.样例找到后复制内容。2.文件中没有word empty。3.0.orig文件夹复制为0。4.文件名不带引号。

You are a CFD expert, call OpenFOAM sample simulation. The requirements are: do a RANS simulation of flow around a cylinder using overPimpleDyMFoam. The simulation investigates the steady flow field around a circular cylinder in an incompressible fluid at Reynolds number of 100. Case name: Cylinder\_Flow\_0. Also 1. Copy the content after the sample is found. 2. No word empty in any file. 3.Copy 0.orig folder to 0. 4. File name without quotation marks.

4.

You are a CFD expert, call OpenFOAM sample simulation. The requirements are: do a RANS simulation of buoyantCavity using buoyantSimpleFoam, which investigate natural convection in a heat cavity with a temperature difference of 20K is maintained between the hot and cold; the remaining patches are treated as adiabatic, case name: Buoyant\_Cavity\_0. Also 1. Copy the content after the sample is found. 2. No word empty in any file. 3.Copy 0.orig folder to 0. 4. File name without quotation marks.