

# Tutorials, post-processing and parallelization

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Copy the folders **basicTut** and **applications** to  
your personal area:

(/home/cesga/cursos/SHARED/**basicTut**)

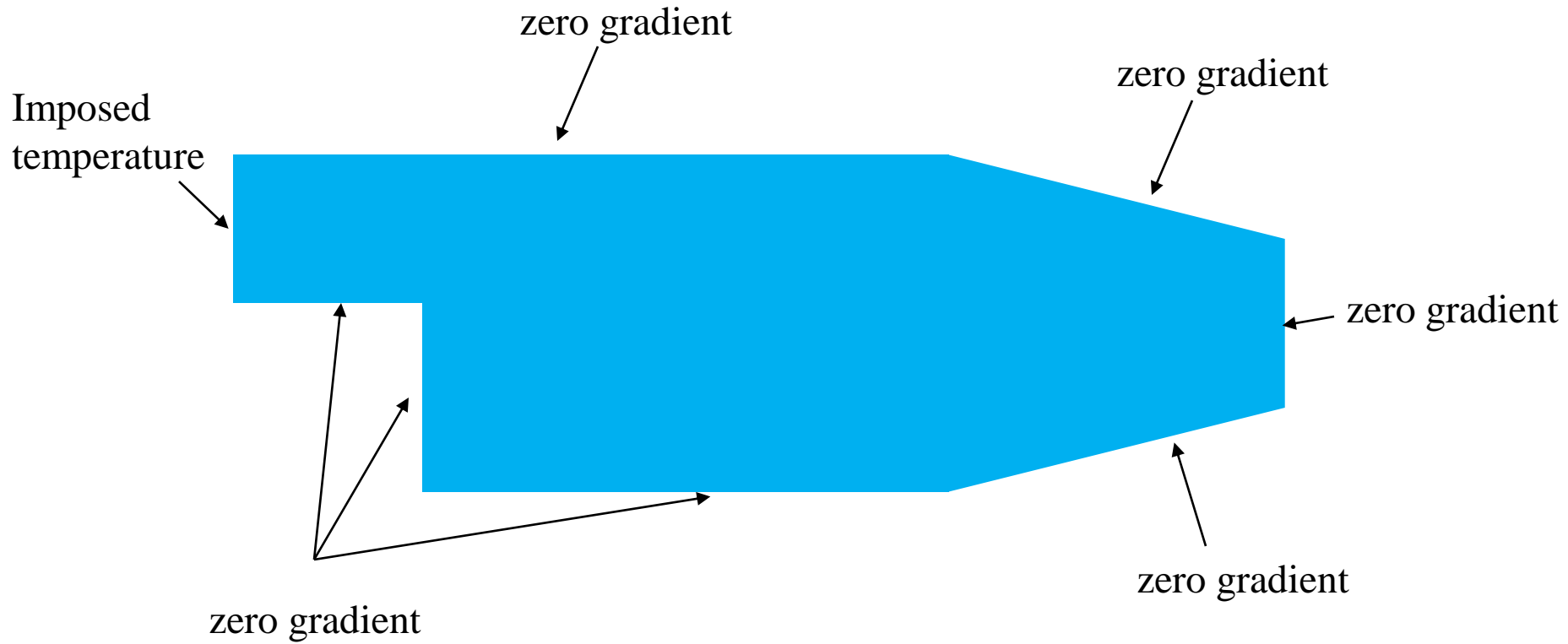
(/home/cesga/cursos/SHARED/**applications**)

(cursos/curso???./OpenFOAM/curso???./**basicTut**)



## *Tutorial*

### *Transport of a scalar (basic pitzDaily)*



## BasicTut → scalarTransportFoam → pitzDaily

```
»blockMesh  
»checkMesh  
»scalarTransportFoam  
  
»scalarTransportFoam >log &  
»gnuplot Residuals  
»paraFoam
```

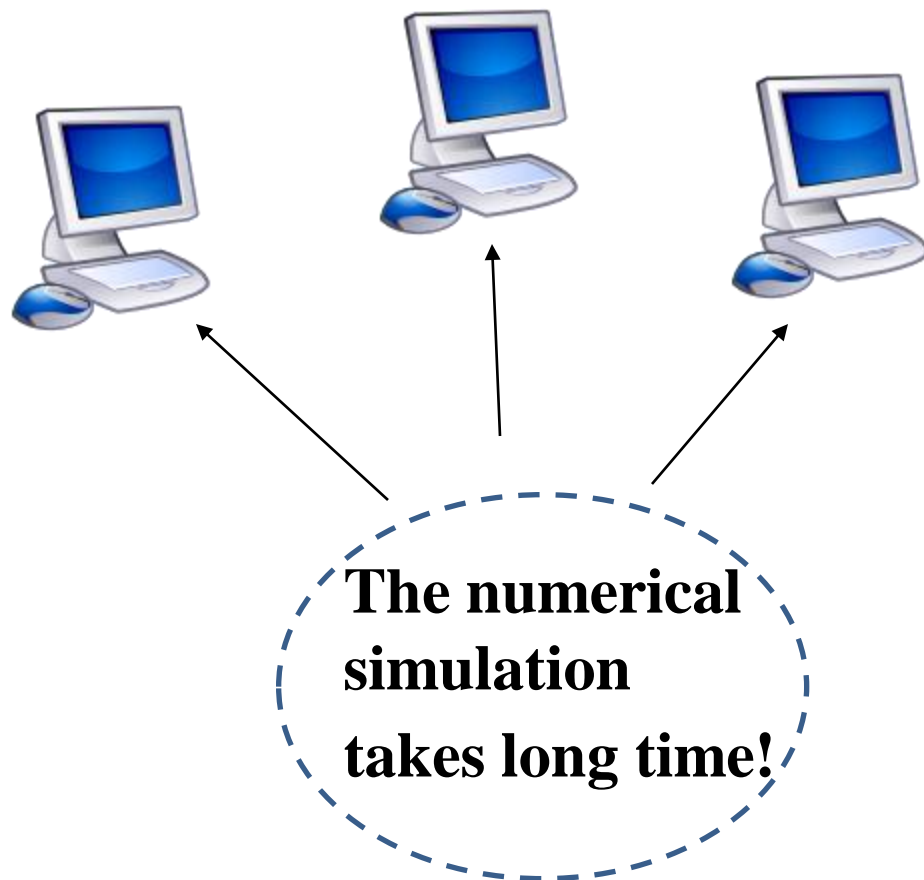


BasicTut → scalarTransportFoam → pitzDaily

```
»patchAverage T outlet  
»patchAverage T outlet >logPatch  
»patchIntegrate T outlet
```



## Run in parallel:



## Run in parallel:

BasicTut → scalarTransportFoam → pitzDaily

```
»decomposePar
```

```
»qsub ... ..
```

```
»qstat
```

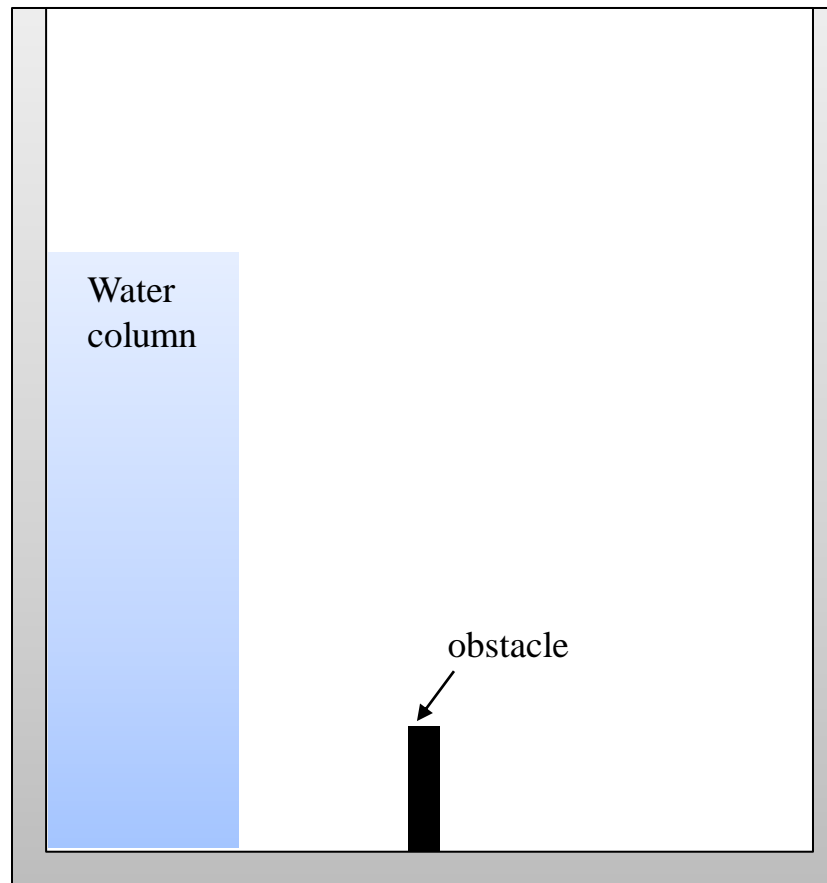




# Tutorial

## *Break of a Dam*





## BasicTut → damBreak

```
»blockMesh
»checkMesh
»cp 0/alpha.water.org 0/alpha.water
»setFields
»interFoam
»paraFoam
```



**Double the number of cells.**

**Run the simulation for 3 seconds.**

