Initial Code Saturne programm (5 sec simulation)
Input : undeformed_bassin.med

Output : undeformed_bassin.med (5sec)
mafluide.med (pressure field for Code ASTER)
main.csc
auxilliary.csc

Code Aster programm

Output : deformed_bassin.med

Code Saturne preprocess
Input : deformed_bassin.med

Output : mesh-input.csm

Last Code Saturne programm (restart mode) (0.01sec)

Input : deformed_bassin.med

Checkpoint (mesh-input.csm
main.csc
auxilliary.csc)

Output : deformed_bassin.med (5,01sec)
mafluide.med (pressure field for Code ASTER)

What mesh should i use for the restart programm : undeformed or deformed one ?

Mesh input
◉ Import meshes ○ Use existing mesh input ○ Generate cartesian mesh

Local mesh directory (optional)
../MESH

List of meshes

File name	Format	Numbers	Reorient	Fix
bassin.med	MED			

Execution mode

Standard Computation

✔ Use unmodified checkpoint mesh in case of restart
✔ Save mesh if modified by preprocessing

- Calculation environment
- Mesh
  - Preprocessing
  - Volume zones
  - Boundary zones
- Calculation features
- Volume conditions
- Boundary conditions
- Time settings
  - Start/Restart
- Numerical parameters
- Postprocessing
- Performance settings

Checkpoint/Restart

Restart from checkpoint ○ off ◉ on ○ automatic

Checkpoint directory ../../saturne/EBRSM/RESU/20240308-1754/checkpoint

Iterations 630

Time 3.15

✔ Different mesh ../../saturne/EBRSM/RESU/20240308-1754/checkpoint/mesh_input.csm

☐ Calculation on frozen dynamic (velocity, pressure and turbulence)

Advanced options