09-04-main.cpp

# Overview

This is an example for restart of a simulation. The restart function may be necessary, when one executes PSI-Boil on a job management system such as pbs, SGE, etc.

# Execute PSI-Boil:

% mpirun –np 4 Boil 10 (parallel computation)

% Boil 10 (single process)

The argument 10 indicates that Boil exit automatically when wall time reaches 10 – 5 (=5) minutes.

# Main program

Fig. 1 shows the flowchart of this code. First PSI-Boil checks if “time.txt” exists or not.

If “time.txt” exists, PSI-Boil reads *time-step*, *current time*, and *dt* from the file. Then, PSI-Boil read \*.bck.

If “time.txt” does not exist, it starts from scratch (*time-step* = 0)



Fig. 1 Flow chart.