

Computational Predictability of Natural Convection Flows in Enclosures

Solution Guidance

As an aid to contributors, we provide some cursory guidance on the transient behavior of the system in question. Figure 1 gives the time history of the temperature at Point 1 of Table 2 in the problem description. The dimensionless time is provided to help contributors ascertain the solution time involved. So as to not bias contributors solutions, the temperature scale is not provided. Figure 2 provides an expanded scale representation of the time history at Point 1 at latter stages of the simulation to illustrate the periodic behavior of the solution. This simulation used implicit time marching, with approximately 25 timesteps taken per oscillation cycle.

Figure 1:

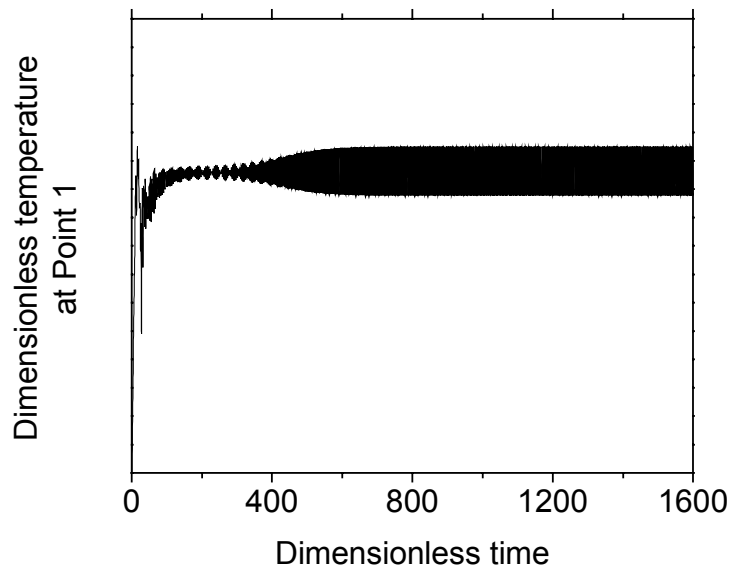


Figure 2:

