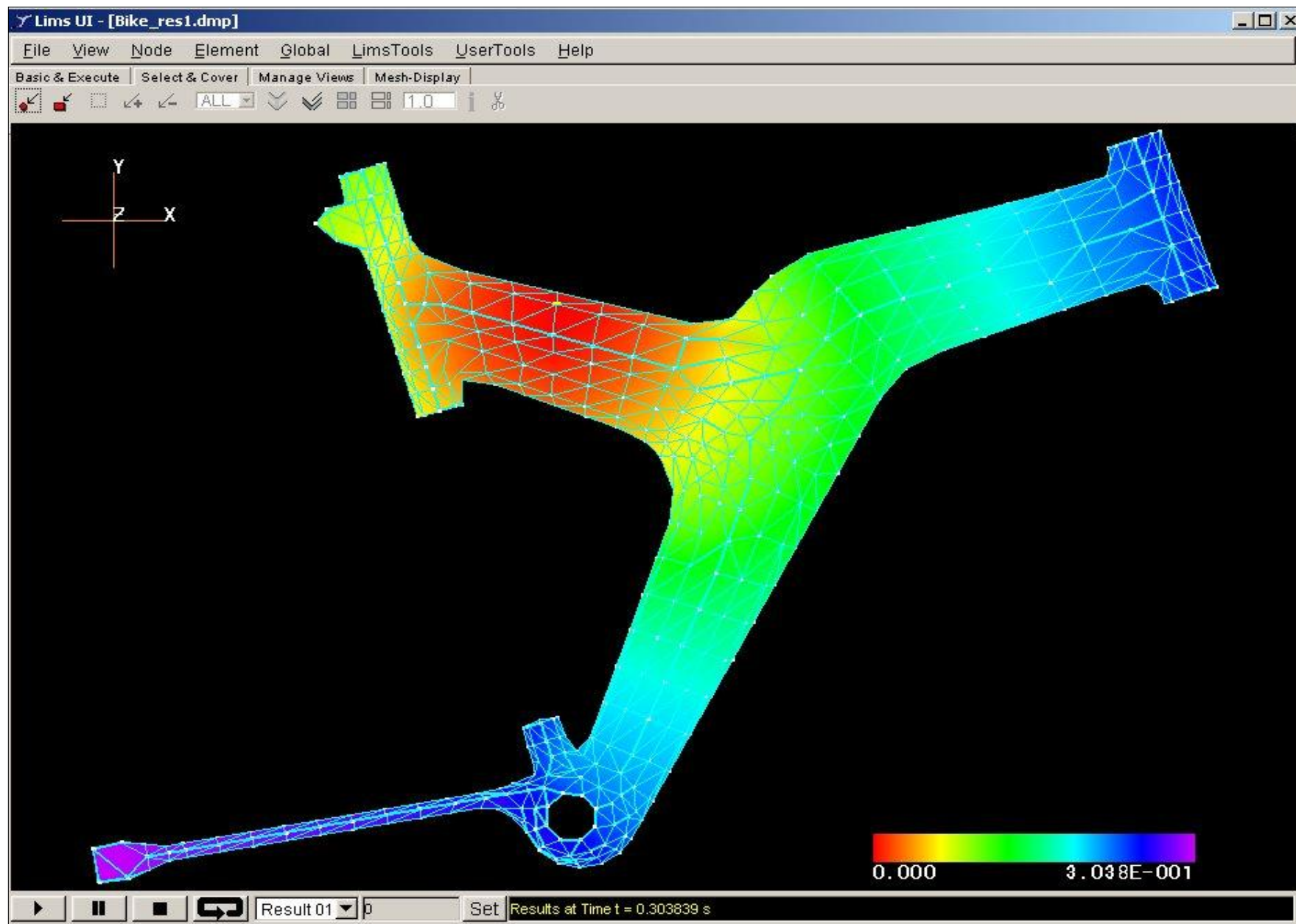


Dr. P. Simacek, Prof. S. G. Advani and K. Friesen (Intern)

University of Delaware . Center for Composite Materials . Department of Mechanical Engineering

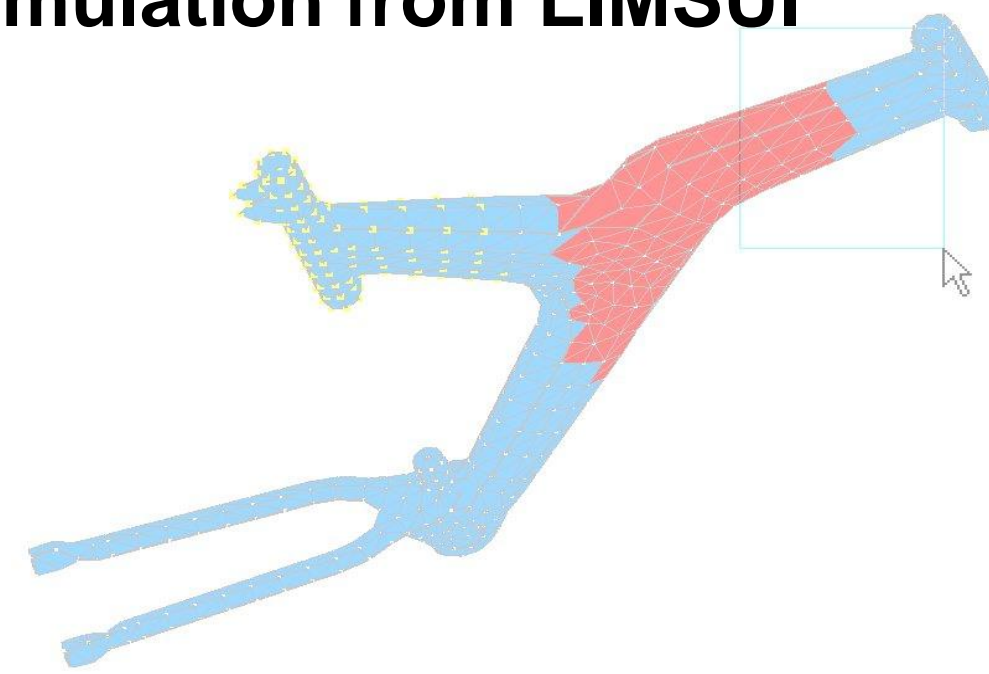
## LIQUID INJECTION MOLDING SIMULATION USER INTERFACE



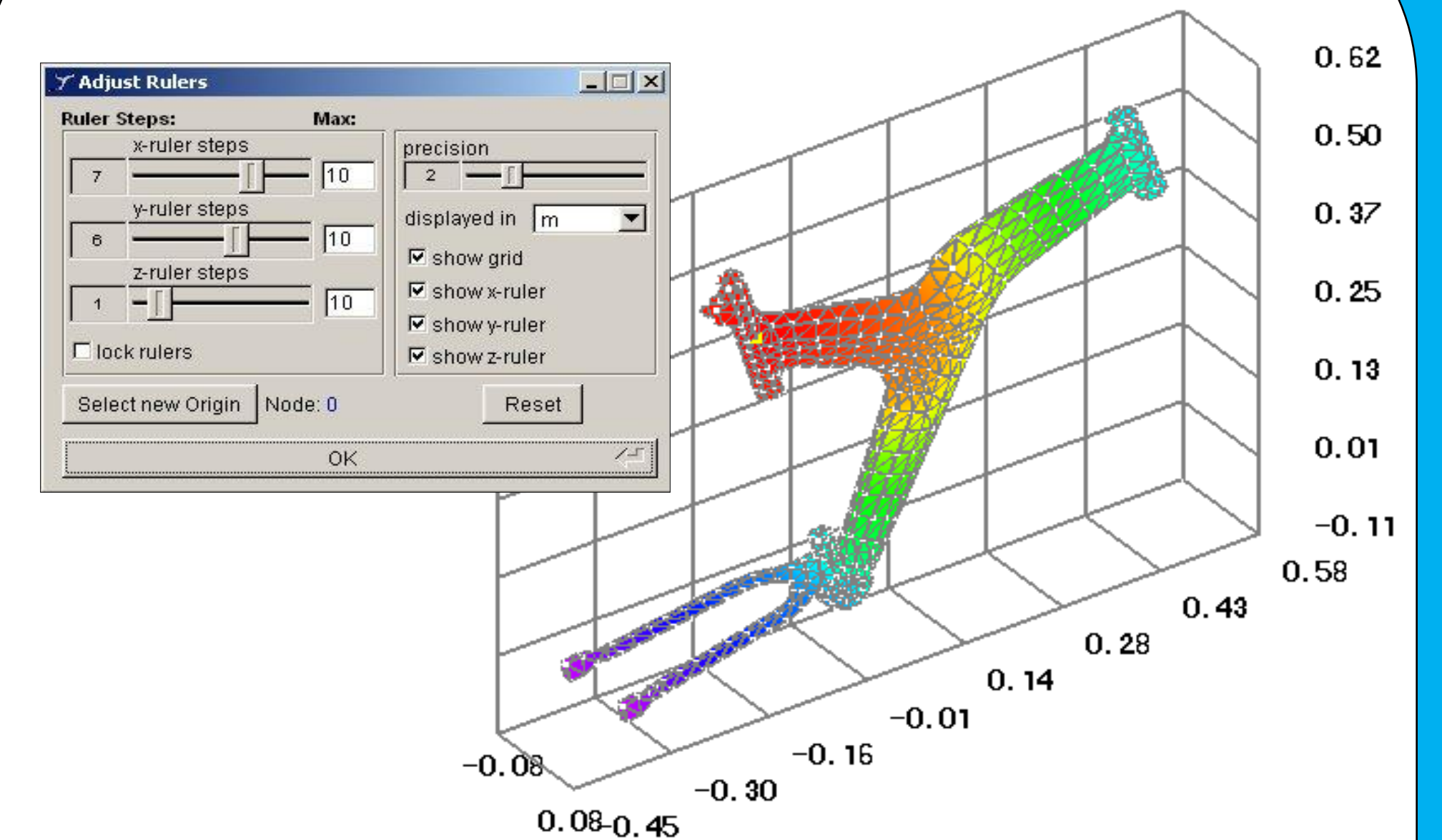
## FEATURES OF LIMSUI

- ◆ LIMSUI (Liquid Injection Molding Simulation User Interface) is a graphical user interface for LIMS Package.
- ◆ It has been under development since 2000.
- ◆ Some significant features incorporated are:

- Visualization of the mesh in 3D-space
- Modification of parameters and elements
- Running LIMS simulation from LIMSUI
- Visualization of the results or resin flow

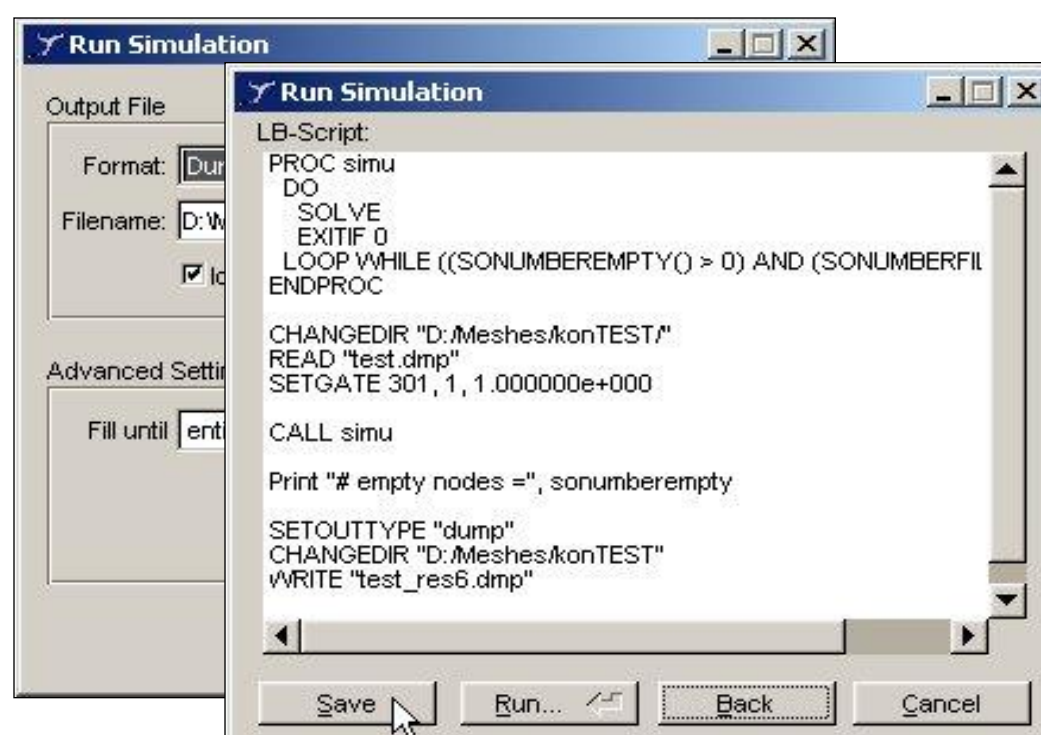


## MESH DISPLAYED WITH GRID



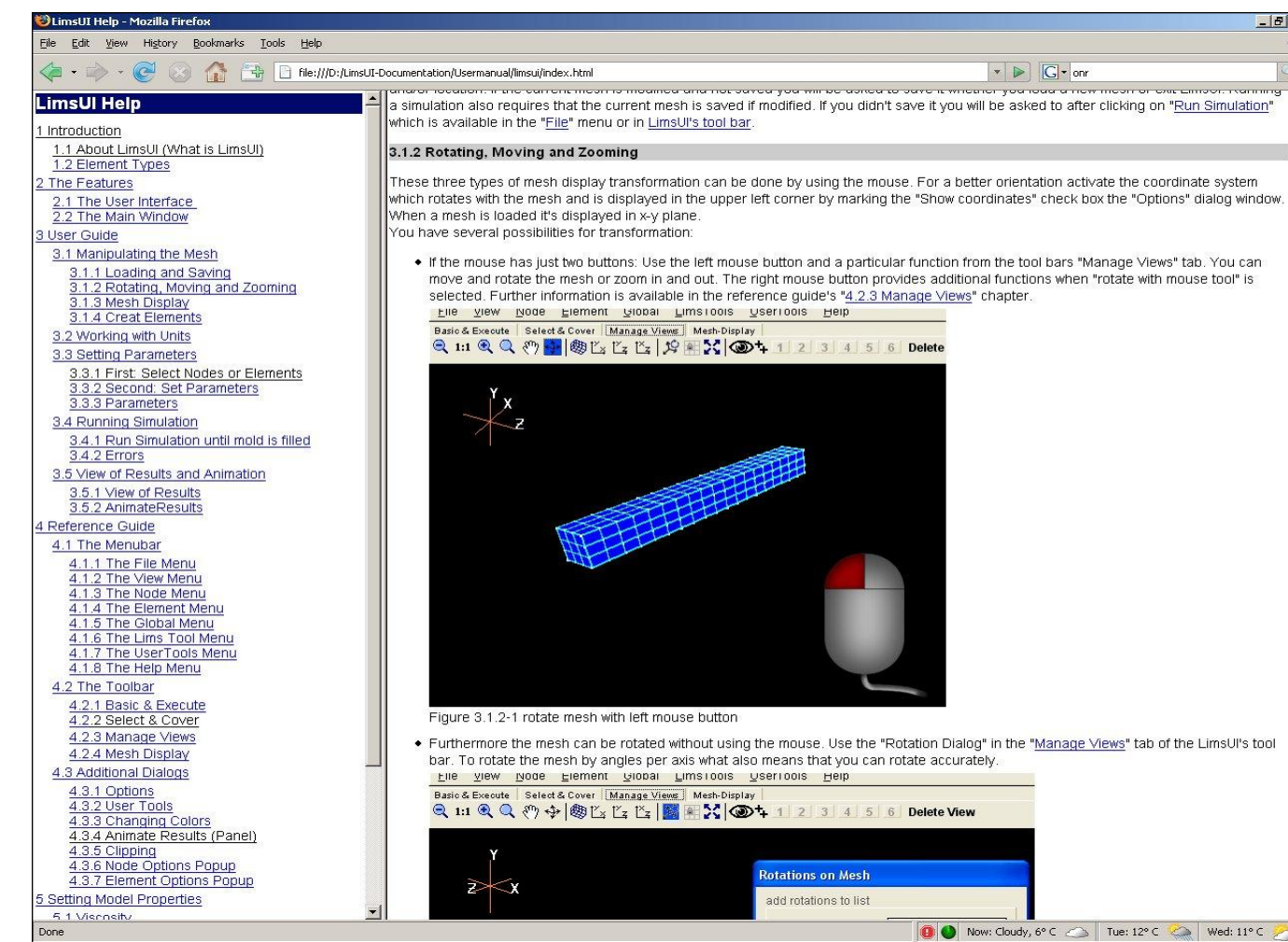
- ◆ Ability to orient
- ◆ Ability to select any portion of the mesh precisely

## GENERATION OF SCRIPTS



- ◆ For advanced user: LIMSUI generated scripts can be saved for further modification to support functionality that is not available in LIMSUI.

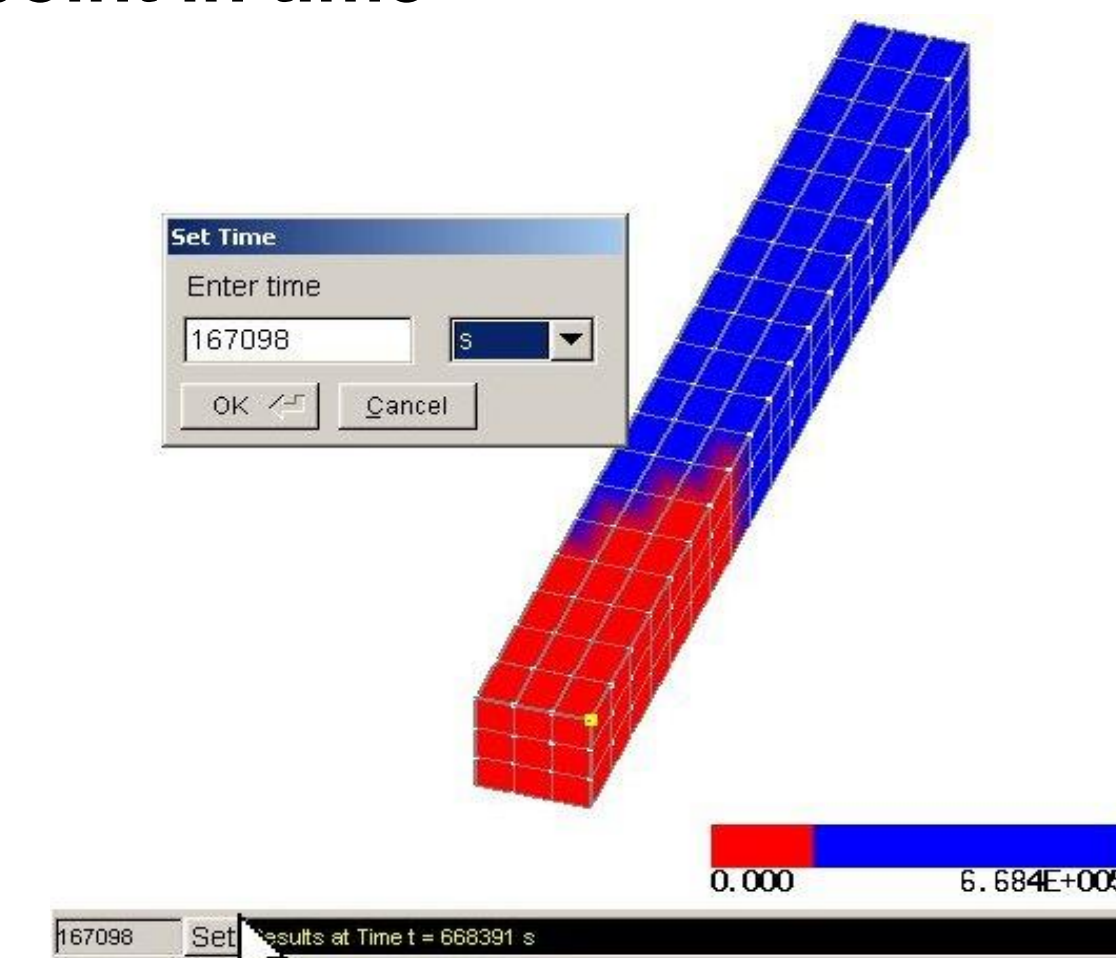
## DOCUMENTATION



- ◆ Updated and linked to the program

## POST PROCESSING

- ◆ Display the results at a certain point in time



## FUTURE WORK

- ◆ Correcting some OpenGL issues, particularly on laptops
- ◆ Event based modeling of dynamic injection schemes (e.g., sequential injection)

## ACKNOWLEDGEMENTS

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