CSCI 552 (Spring 2022)

Project #3

Handout: Thursday, April 7, 2022
Due: 11:59 pm, Thursday, April 21, 2022
Total points: 60

Write an interactive VTK program to explore the iso-surfaces of a volume data set. The user will be able to interactively define the iso-value using a slider (VTK Slider Widget). Your program will display the corresponding iso-surfaces interactively, and allows the user to examine each iso-surface using the VTK interactor. Your program needs to be tested on the following three data sets:

1. The CT Head in Volume16 data format (attached).

2. An Iron Protein dataset in vtk format (attached).

3. A 100^3 sampling data set of the quadratic function $x^2 + 0.5y^2 + 0.2z^2 + 0.1xz + 0.2x$.