

## Lab 2 – CSC 572

Due 10/9/08 to be demoed in lab

**This project is to be worked on in pairs (different pairs than lab 1)**

**Objective: Exposure to range images (specifically how much data each scan contains) and range surface construction**

- 1) Create a program, which generates and displays a range surface from range data. Your program should allow the range surface to be rotated for viewing pleasure.
  - a. Please download the bunny data from:  
<http://graphics.stanford.edu/data/3Dscanrep/>
  - b. Use one of the bunny scans from the “data” directory
  - c. Please download the PLY format parser from:  
<http://www.cs.kuleuven.ac.be/~ares/libply/>
  - d. Using the provided parser, read in one of the bunny scans and create a range surface from the input data.
  - e. Display the surface as wireframe (you may also display it as shaded polygons if desired).
  - f. Be sure that your programs includes some mechanism to rotate and translate the displayed surface.