

Computation Geometry 2

Project 2

Instructor: Dr. Anath Fischer

Handle Out: 29.5.2007.

Due Date: 24.7.2007.

Develop a program for creating a swept B-Spline surface..

- The profile curve will be a B-Spline curve.
- Please add the option to change the profile degree and the knote sequence.
- The swept surface will be along a cubic B-Spline curve.
- The program should be able to render the profile, the swept curve and the surface and display it as linear segments.

The program should be able to read in data files in the following format:

Profile and swept curves

O- specifying the order of the curve.

Nc- specifying the number of control points

u knot vector: u_1, \dots, u_n

The control points of V_{ij} .

Save the program under your home directory in cg2/ Swept_Surface.