Shape Interrogation for CAD/CAM

geoms.c

Evaluate a position, normalized tangent directions in u,v, normal direction, max/min principal curvatures, and normal u,v curvatures of an open NURBS surface at (u,v).

Do:

prompt> make geoms
prompt> geoms -i input surface file -p u value,v value [-o output file name]

Output: Evaluation results

Note: No spaces before or after the "comma" in -p command line option.

Example:

Example 1.5.2 of the hyperbook (or in pages 32-33 of the hardcopy version) for $\theta = \phi = 45^\circ$ prompt> geoms -i s.surf -p 0.414213562,0.414213562 -o s.out

Note: For the file format of the input surface (s.surf), see .../README.pdf