

# Shape Interrogation for CAD/CAM

## **geomc.c**

Evaluate a position, tangent, normal, curvature, and torsion of an open NURBS curve at  $u$ .

Do:

```
prompt> make geomc
```

```
prompt> geomc -i input_curve_file -u u_value [-o output_file]
```

Output: Evaluation results

Example:

Quadrant of an ellipse in example 1.5.1 of the hyperbook (or in pages 30-31 of the hardcopy version) for  $\theta = 45^\circ$  (i.e. at  $u = 0.414213562$ )

```
prompt> geomc -i c.curv -u 0.414213562 -o c.out
```

Note: For the file format of the input curve (c.curv), see [../README.pdf](http://../README.pdf)