

Shape Interrogation for CAD/CAM

loc.c

Given an open NURBS surface, the lines of principal curvatures are computed at a specified (nsegu & nsegy) points.

Do:

```
prompt> make loc
```

```
prompt> loc [-s step_size] [-u number_of_segments_per_u-knot_span] [-v  
number_of_segments_per_v-knot_span] [-x output_file_for_max_loc] [-n  
output_file_for_min_loc] input_surface_file
```

Output: Resulting lines of curvatures in .VECT format

Example:

```
prompt> loc -s 0.01 -u 20 -v 20 -x loc-max.VECT -n loc-min.VECT s.SURF
```

Note: For the file format of the input surface (s.SURF) and the outputs (loc-max.VECT, loc-min.VECT), see [../README.pdf](#)