Shape Interrogation for CAD/CAM

subc.c

Subdivide an open NURBS curve at u.

```
Do.
```

```
prompt> make subc
prompt> subc -i input_curve_file -u u_value [-o output_curve_file_1,output_curve_file_2]
```

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

Example:

Example 1.5.1 of the hyperbook (or in pages 30-31 of the hardcopy version) to subdivide the curve at $\theta = 45^{\circ}$ (i.e. at u = 0.414213562)

prompt> subc -i c.curv -u 0.414213562 -o c1.curv,c2.curv

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

subs.c

Subdivide an open NURBS surface along u (or v).

Do:

```
prompt> make subs
prompt> subs -i input_surface_file -u u_value (or -v v_value) [-o
output surface file 1,output surface file 2]
```

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

Example:

```
Example 1.5.2 of the hyperbook (or in pages 32-33 of the hardcopy version) (1) subdivide the surface along \theta = 45^\circ (i.e. along u = 0.414213562): prompt> subs -i s.surf -u 0.414213562 -o s1.surf,s2.surf (2) subdivide the surface along \phi = 45^\circ (i.e. along v = 0.414213562): prompt> subs -i s.surf -v 0.414213562 -o s3.surf,s4.surf
```

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