

Input n, Ps, W, and Type for NURBS Curve.

For OPEN type: 1

For CLOSED type: 2

n (input interger>3):

W (1 by n+1 matrix all positive values): auto input below

Ps (4 by n+1 matrix last rows is all ones): auto input below

Open or Closed Value: auto input below

This program output are n, Ps, W and Type. Then plot the NURBS.

Type (Open=1) (Close=2) :2

n = 8

W =

8	10	2	8	2	10	9	5	8
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Ps =

0	-17	-13	-19	2	1	19	18	-4
13	4	-3	18	-13	20	7	-1	8
-6	17	10	11	0	15	-4	-11	2
1	1	1	1	1	1	1	1	1

Max Curvature: 10.5112

Max Curvature x,y,z position =

-16.0061

3.5015

15.0845

Max Torsion: 60.4741

Max Torsion x,y,z position =

-1.9764

9.7752

-1.4137

Check graph in plot.

For Numerical Values of type in desire values base off Workspace:

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