Constrained RDP Algorithm

Constrained simplification of arbitrary polylines in the context of arbitrary planar geometries.

How to use

Open a terminal (command line) from the directory containing constdp[.exe]. Simplification options are made available through the use of TOML file (config.toml). Execute constdp with the following command :

```
./constdp -c ./config.toml
```

If a `-c` option is not provided at the terminal e.g. `./constdp`, it assumes `-c ./config.toml` as default.

config file

```
#input file is required
Input                   = "/path/to/input.[wkt]"
#output is optional, defaults to ./out.txt
Output                  = ""
#this is optional
Constraints             = "/path/to/file.[wkt]"
#options : DP, SED
```

```
SimplificationType     = "DP"
Threshold              = 0.0
MinDist                = 0.0
RelaxDist              = 0.0
#are polylines independent or a feature class ?
#if false planar and non-planar intersections
#between polylines are not observed
IsFeatureClass         = false
#observe planar self-intersection
PlanarSelf             = false
#observe non-planar self-intersection
NonPlanarSelf          = false
#avoid introducing new self-intersections as a
#result of simplification
AvoidNewSelfIntersects = false
GeomRelation           = false
DistRelation           = false
SideRelation           = false
```

Data

Constraints