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 a 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
`./config.toml` as the default configuration file.

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
```

example

Given a polyline in `resource/input.wkt`

```
Input                 = "resource/input.wkt"
Output                = ""
Constraints           = "resource/constraints.wkt"
SimplificationType    = "DP"
Threshold             = 50.0
MinDist               = 20.0
```

```
RelaxDist                  = 30.0
IsFeatureClass             = false
PlanarSelf                 = true
NonPlanarSelf              = true
AvoidNewSelfIntersects     = true
GeomRelation               = true
DistRelation               = true
SideRelation               = true
```

Original polyline in the context of planar objects:
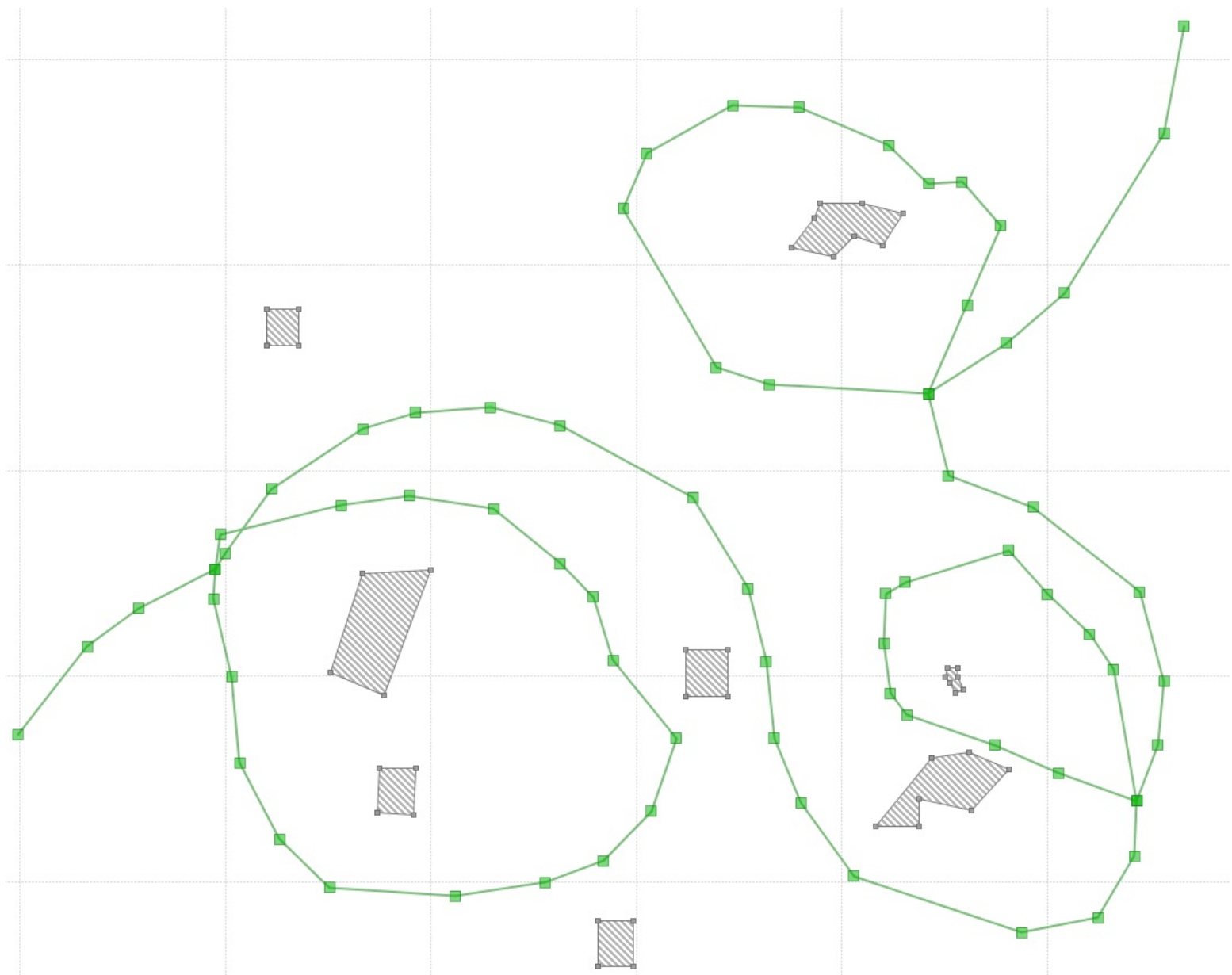
Constrained simplification with respect to config options(above):
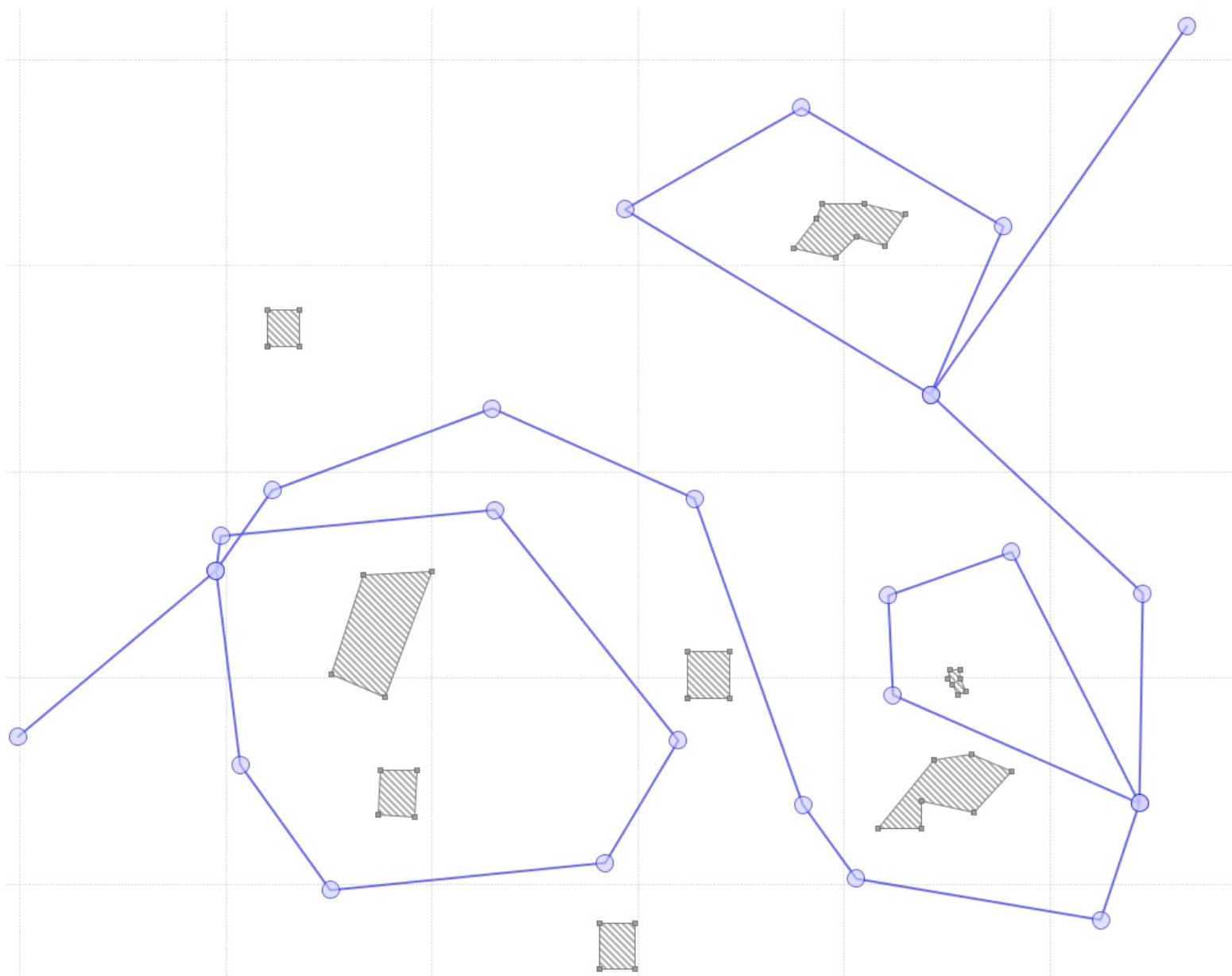
Unconstrained simplification with these options turned `false` :

```
IsFeatureClass          = false
PlanarSelf              = false
NonPlanarSelf           = false
AvoidNewSelfIntersects  = false
```

```
GeomRelation          = false
DistRelation          = false
SideRelation          = false
```