

FormatMaBoSS.pl

Aim

FormatMaBoSS.pl is a perl script that facilitates the use of MaBoSS, by creating tables from output files in a dedicated folder.

How to run the script

It is run as a command line; inputs files need to be provided; MaBoSS executable name and threshold are optional.

```
FormatBoSS.pl <file.bnd> <file.cfg> <(optional)threshold>  
              <(optional)-mb MaBoSS executable name>
```

Files should be in working directory or accessible by absolute path. MaBoSS executable should be in working directory, accessible by absolute path or by environment variable. A threshold is used for removing low probability in the table of stationary distribution decomposition. If no threshold is provided, the file “file_statdist_table.cfg” is not constructed.

Outputs

A folder is created, with the same name as the cfg file (adding a number as suffix if directory already exists). MaBoSS executable, bnd and cfg files are copied in this new folder (and MaBoSS executable name if it is a readable file). MaBoSS is run in the new folder, with the given bnd and cfg files as inputs. FormatMaBoSS.pl creates tables (in text format) from output files, in the new folder: “file_probtraj_table.csv” (from “file_probtraj.csv”) and “file_statdist_table.cfg” (“from file_statdist.cfg” if the threshold is given). These tables have a column for each network state. These tables can be easily downloaded in a spreadsheet.

NB: these table are less compact than the output files produced directly by MaBoSS. These could be large, if the set of network states is large.