

MBSS_SensitivityAnalysis.pl

Aim

MBSS_SensitivityAnalysis.pl prepares multiple MaBoSS runs (within MBSS_FormatTable.pl), considering the variation of every external variables according to a provided suffix: it creates a new folder, copies the bnd file in it and adds the given suffix to the variable by creating a new cfg file in each case. For example, if the external variable \$Var is initially set to 300, then it becomes $\$Var = 300+100$ and stored in a new cfg file. Note that the suffix is added to each external variable separately, creating therefore a cfg for each modified external variable.

How to run the script

It is run as a command line. The suffix that modifies the definition of each external variable needs to be provided. The bnd file and the cfg files need also to be provided. MBSS_FormatTable.pl should be accessible by command line.

```
MBSS_SensitivityAnalysis.pl <file.bnd> <file.cfg> "<add_string>"
```

Outputs

A folder with the name "Sensitivity_NameOfCfgFile" is created, the bnd file is copied in it. A cfg file is generated for every external variable in the new folder. The name of each new cfg file has the name of the modified external variable as suffix. A shell script is generated in the new folder that can run MBSS_FormatTable.pl for every external variable modification. The name of the generated shell script is the name of the input cfg file, with "Sensitivity_" as prefix. It can be executed directly (by the command line `./Sensitivity_NameOfCfgFile.sh`), as long as MBSS_FormatTable.pl is accessible by command line.