

Example

In this folder you can follow the step-by-step details of the execution of the multiNG procedure considering $L=2$ layers.

Folder 1 – It contains the output of the program `redcritica.for` for two identity matrices in the files `org86_cob.dat` e `org_nad1.dat`. These matrices were generated outside the procedur and correspond to primary input data.

Folder 2 – With the chosen values of `\sigma_cr`, respectively 64% and 69% for the cob and nad1 proteins, two new files were generated in folder 2, after running twice the program `matriz_adj.f90`: `64adj_cob.dat` and `69adj_nad1.dat`. They will be the input files for the next step.

Folder 3 – After running `multiplex.for`, another file is generated, `plex_m2.dat`, which corresponds to the supra-matrix of adjacency of the multiplex. As for Folder 2, this file will be the input file to the next step.

Folder 4 – After running the program `caminho.for` with `plex_m2.dat` as input file, several files are created, with the same name but with an additional number ranging from 7 to 13. The file `plex_m2_11.dat` is the input of the last step of the MultiNG.for program.

Folder 5 – The program `multiNG.for` also generates several files, with the same name and an extra digit ranging from 1 to 7. Two files, those ending with 4 or 7, are used to generate the figures in the `result_m2.pdf` file. The first one contains all paths used to build the dendrogram, and the other one generated a graph of the modularity function Q as a function of the number of excluded edges in the multiplex. This figure was created with the help of the Origin 15 software, but any other graphical environment can be used to trace both figures.