Report on the optimization loops

Nicole Orzan

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The optimization of the code was divided into 8 different steps, of which the first 6 will be examinated.

For each step of the optimization it was analyzed the time spent by the program to be finished. For the analysis to be complete, for each optimization step was calculated the mean time running the program 12 times saving the results in different files, which were then opened to calculate means.
Then was used jupyter-notebook to create the graph.
Here you can find a table containing the mean calculated times.

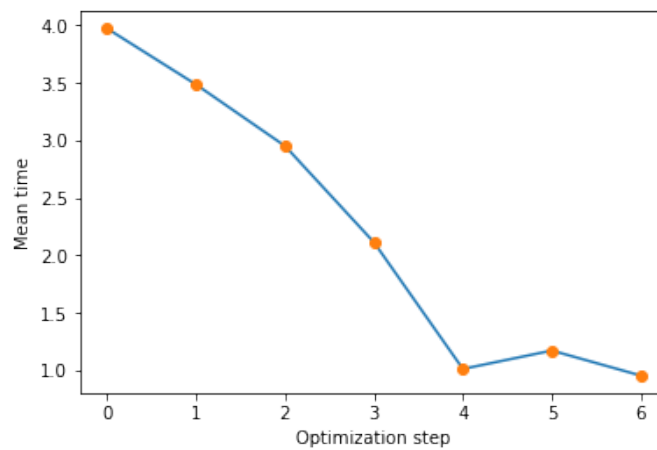| Optimization Step	Mean Time
0	3.972505
1	3.485531
2	2.951075
3	2.113705
4	1.012711
5	1.172665
6	0.955033

Figure 1: Mean computing time for each optimization step