

# perprof-py – A Python Package for Performance Profile

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Benchmarking optimization packages are very important in optimization field, not only because it is one of the way to compare packages, but also to uncover deficiencies that could be overlooked. During benchmarking, one can obtain several informations, like CPU time, number of functions evaluations, number of iterations and so on. These informations, if presented as tables, can be difficult to be analyzed, due, for instance, to large amount of data. Therefore, researchers started testing tools to better process and understand this data. One of the most widespread ways to do so is using Performance Profile graphics proposed by Dolan and Moré.

In this context, we implemented a free software that makes Performance Profile using data provided by user in a friendly manner. This software produces graphics in PDF using LaTeX with PGF/TikZ and pgfplots packages, in PNG using matplotlib and can also be easily extended to use with other plot library. The software is implemented in Python3 with support for internationalization and is available on <https://github.com/abelsiqueira/perprof-py>.

## Referências

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