

DyMat - User Manual

version 0.3

Contents

1 Overview	1
2 Author and License	1
3 Dependencies	1
4 Installation	1
5 DyMatExport	2
5.1 Exploring a file	2
5.2 Exporting variables	2
6 Python API	2

1 Overview

This package contains some modules to read and process the result files from [Dymola](#) and [OpenModelica](#) with [Python](#). A script is included that will help you to browse and export the contents of these files to other formats.

Both simulation systems save their results in regular mat-files, but use a special variable structure to store the data efficiently. An easy way to access the data is [MATLAB](#), but some people (like me) don't have it or don't want to use it.

If you want to use this package in your own python scripts you should read the section [Python API](#).

The documentation on the provided script DyMatExport is in the section [DyMatExport](#).

2 Author and License

DyMat was developed by Joerg Raedler (joerg@j-raedler.de). The code is released under the terms of the [BSD License](#), which allows the free usage, distribution and enhancement of this code.

3 Dependencies

1. [Python](#) 2.5 or higher (DyMatExport needs Python 2.7 or higher)
2. [SciPy](#)

For MS Windows you may consider using the excellent distribution [python\(x,y\)](#), which includes almost everything you will ever need for scientific computing with python.

4 Installation

The installation process uses the [distutils](#) package which is included in standard python distribution. In the base folder of this package call:

```
python setup.py install
```

to install everything. Have a look at the [distutils](#) documentation for more options.

5 DyMatExport

5.1 Exploring a file

ncvjsjklfvsdjk

5.2 Exporting variables

jhgcsagcfasd

6 Python API

cjnksd