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DAE Tools is a Python library for modeling and simulating processes in heavy industries. It provides several modules that allow mathematicians to solve their equations. This mathematical framework focuses on both static and dynamic optimization of mathematical systems. It offers an intuitive user interface which can help scientists and engineers to design, build, and test models. It supports discontinuous systems and systems that include process terms. DAE Tools can process mathematical equations and provide relevant descriptions of chemical, physical, or even socio/economic phenomena. Although able to perform calculus, the library is a cross-platform equation-oriented optimization and modelling system. It supports calculus of both ordinary and discontinuous equations. The latter types are always handled by the framework. Reports can be then generated and exported as XML, whereas the view provides accurate math representation due to the MathML support. Multiple built-in solvers make it possible to get around a variety of different equations. The Sundials IDAS solver takes care of DAE systems and calculates sensitivities. On the other hand, BONMIN, IPOPT, and NLOPT solvers are used with NLP/MINLP problems. Third-party solvers are interfaced and can be used as well. It's not a stand-alone components, and it needs to be used with particular programming languages, such as Python or C++. Programs can then be compiled within independent executables, so the end-user doesn't have to install additional libraries for application functionality. DAE Tools has several features. The library can: - Solve complex ordinary or discontinuous systems - Solve a linear system - Perform complex calculus - Find multiple solutions - Solve IDAS with DAEs - Perform derivatives with NumPy or scipy It also has a multidisciplinary environment which can be used for development, creation, and exploration. This allows users to perform multi-physics simulations and model in different fields of study. DAE Tools is available for Linux, Mac OS X, and Windows. Besides the Python interface, a C++ version is also available for users who use it with C++. The latter framework can be used with Cython and can run on many different platforms, such as Mac OS, Linux, and Windows. DAE Tools Contributing: DAE Tools is a free open-source project available on GitHub. If you have some experience in programming, development, or mathematics, please make a contribution. The

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Name: Keymacro Version: 1.0.2 Release: 1 Packaging: PyPI Summary: A library for encrypting and decrypting password protected data. Group: Development/Libraries License: BSD 2-Clause URL: Source: BuildRoot: `%{_tmppath}/%{name}-%{version}-buildroot` %if 0%{?fedora} BuildRequires: python-devel >= 2.7 %endif %if 0%{?rhel} || 0%{?ubuntu} BuildRequires: python-devel >= 2.6 %endif Requires: openpyxl Requires: python-devel >= 2.6 Requires: python-xlrd Requires: python-numpy Requires: python-bs4 BuildRequires: python-setuptools BuildRequires: python-docutils Requires: python-twisted Requires: python-reportlab Requires: python-psycog2 Requires: python-pygoocanvas Requires: python-tz Requires: python-docutils Requires: python-scipy Requires: python-imaging Requires: python-scipy %if 0%{?rhel} || 0%{?ubuntu} Requires: python-psycog2 Requires: python-twisted Requires: python-setuptools Requires: python-zope.interface Requires: python-xlrd Requires: python-docutils Requires: python-pygoocanvas Requires: python-imaging Requires: python-scipy Requires: python-pygments %endif # If 'build' is 'false', 'check' is needed for building. %if 0%{?build} BuildRequires: python-docutils BuildRequires: python-numpy BuildRequires: python-setuptools %endif # If 'check' is 'false', 'doc' is needed for documentation. %if 0%{?check} BuildRequires: python-docutils %endif # If 'doc' is 'false', 'develop

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DAE Tools allows the creation of simulations of various processes that depend on several variables. It provides support for both the continuous and discrete representations of mathematical equations. The latter type is always handled by the framework. Equations are generated from Python scripts, in which the case of a continuous equation requires special attention. DAE Tools is also a cross-platform equation-oriented optimization and modelling system, with built-in DAE/BIDE solvers and interfaces for third-party solvers. It can process both ordinary and discontinuous equations, and reports can be generated as well. DAE Tools makes it possible to work with both continuous and discontinuous equations, and it has the following features: - Powerful open-source mathematical equation parser/generator - Mathematical equation solver with a large set of built-in solvers - Differential algebraic and implicit equation solvers - Solvers for non-linear programming problems - The capabilities of the MathML format for its rich mathematical representations - Integration with external solvers, such as IDA, for solving non-linear programming problems - Interfaces for third-party solvers, such as BONMIN, IPOPT, and NLP/MINLP - Mathematical models for continuous and discontinuous equations - Differential and algebraic equations - Discontinuous equations - PDEs and discrete equations - Solvers for the approximation of the solution of the PDEs - Approximation of continuous and discontinuous equations - Impossibility analysis for discrete equations - Differential algebraic equations DAE Tools is developed and maintained by the DAE Tools Authors, which also own the rights to the name and the name DAE Tools. DAE Tools includes a large number of mathematical models for continuous and discontinuous equations. DAE Tools can process both continuous and discontinuous equations, and it has the following features: - Equation solvers for non-linear programming problems - Differential algebraic and implicit equation solvers - Integration with external solvers, such as IDA, for solving non-linear programming problems - Interfaces for third-party solvers, such as BONMIN, IPOPT, and NLP/MINLP DAE Tools is developed and maintained by the DAE Tools Authors, which also own the rights to the name and the name DAE Tools. DAE Tools makes it possible to work with

What's New in the DAE Tools?

DAE Tools is an open-source library for modelling and simulating chemical, physical, or socio-economic processes. It consists of a set of tools for performing calculations, performing optimizations, and implementing various mathematical functions. The modules are implemented in Python, and it provides a good framework for implementing solution algorithms for a variety of mathematical models. The simulation tools can be used for performing both finite-difference and continuous-equation-based simulations. It is extensively used for solving ordinary differential equations (ODEs), as well as moving boundary problems (MBOs) and partial differential equations (PDEs). For example, it can perform: * Calculus of both ordinary and discontinuous equations, * Multiple built-in solvers that solve ODEs, MBOs, and PDEs, * Non-linear programming problems (NLP) for optimizing continuous-equation systems, * Differential algebraic systems (DAS) for modelling chemical reactions. DAE Tools is cross-platform and can be run in any operating system, such as Windows, Linux, and MacOS. Differently from the Python library of the same name, DAE Tools provides an equation-oriented, as well as mathematical, description of the phenomenon. The BREST DAQ System, developed at the French Alternative Energies and Atomic Energy Commission (CEA), is a unified acquisition system that makes it possible to control and operate 10 nuclear and three radiological experiments in parallel. It was developed and is maintained by the Laboratoire de Physique Subatomique et de Cosmologie (LPSC) in collaboration with LUMINEF (a company jointly owned by CEA and EDF). BREST DAQ is implemented in LabView. It combines a network of various NI-DAQ devices (USB-based and field devices) using the DAQmx or USBOMx configuration modes. Using DAQmx, a DAQmx-based controller is interfaced to a NI-DAQ, an NI-LABVIEW-based device and an NI-VI configuration box. Different projects are also implemented using this framework. BREST DAQ can be configured using LabView-controlled LabWindows/CVI devices and/or LabWindows/CVI-based NI-DAQmx devices. When using a NI-DAQmx device, a LabWindows/CVI-based development box is connected to it. Thus, BREST DAQ is a NI-DAQmx-based, LabView-based, NI-DAQ-device-based, LabWindows/CVI-based, and LabWindows/CVI-based NI-DAQmx-based acquisition system. DAE Tools is a Python library that provides several mathematical functions and modelers. In this regard, it integrates a simulator for calculating physical and chemical processes, a solver for performing non-linear optimization, and a GUI for displaying data.

System Requirements For DAE Tools:

Minimum: OS: Windows 7 64bit Windows 7 64bit Processor: Intel Core 2 Duo E6550 2.66GHz or AMD equivalent Intel Core 2 Duo E6550 2.66GHz or AMD equivalent RAM: 4GB RAM 4GB RAM Graphics: Nvidia GeForce GTS250 1GB / AMD Radeon HD 5770 1GB Nvidia GeForce GTS250 1GB / AMD Radeon HD 5770 1GB DirectX: Version 9.0c Version 9.0c HDD: 23GB available space 23GB

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