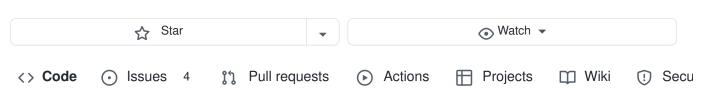
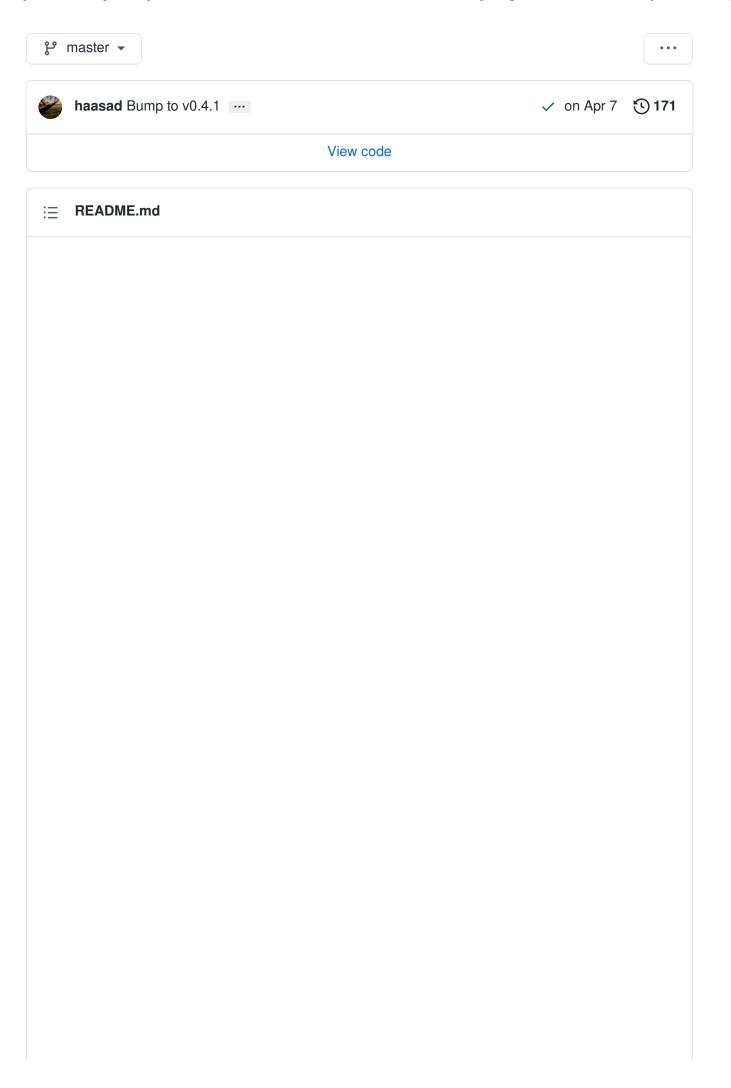
haasad / PyPardisoProject (Public)

Python interface to the Intel MKL Pardiso library to solve large sparse linear systems of equations

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☆ 71 stars
♀ 12 forks







PyPardiso is a python package to solve large sparse linear systems of equations with Used by 10,10 one API Math Kernel Library PARDISO solver, a shared-memory multiprocessing parallel direct sparse solver.

** same functionality as SciPy's scipy.sparse.linalg.spsolve for solving the sparse linear system Ax=b. However in many cases it is significantly faster than SciPy's built-in single-threaded SuperLU solver.

Languages

PvPardiso is not a python interface to the PARDISO Solver from the PARDISO 7.2

թարթագրություն and it also doesn't currently support complex numbers. Check out JuliaSparse/Pardiso.jl for these more advanced use cases.

Installation

PyPardiso runs on Linux, Windows and MacOS. It can be installed with **conda** or **pip**. It is recommended to install PyPardiso using a virtual environment.

conda-forge	PyPI

conda-forge	РуРІ
Anaconda.org 0.4.1	pypi package 0.4.1
conda install -c conda-forge pypardiso	pip install pypardiso

Basic usage

How to solve the sparse linear system Ax=b for x, where A is a square, sparse matrix in CSR (or CSC) format and b is a vector (or matrix):