Installation manual

CLASS-PT uses the OpenBLAS library. We recommend to install it through anaconda. All together everything is installed and configured in 5 easy steps:

1. install OpenBLAS as

   $ conda install -c anaconda openblas

2. Download and unpack (or git pull) CLASS-PT

3. Change the paths to OpenBLAS in CLASS-PT/Makefile and in the extra_link_args of CLASS-PT/python/setup.py as follows:

   Linux: path/to/OpenBLAS/lib/libopenblas.a

   MacOS: path/to/OpenBLAS/lib/libopenblas.dylib

4. Compile CLASS as usual by typing

   $ make clean

   $ make

5. You are all set. You can run CLASS-PT and classy.

If by some reason you want to install OpenBLAS manually, you can do that as follows:

1. Download the OpenBLAS library from http://www.openblas.net/

2. Extract the library in some folder and configure the package by executing

   $ gmake CC=gcc FC=gfortran

   in that folder.

3. Install the package via

```
$ make install PREFIX=path/to/OpenBLAS
```

You if choose to follow the manual installation you should keep in mind that `OpenBLAS` conflicts with the library `Intel MKL` which is used in `numpy` version `1.16` and higher on some machines. This incompatibility makes `classy` crash with "segmentation fault" even though the code can be executed with a `.ini` file without any errors. If this is the case on the user's computer, an easy fix is to use the `numpy` versions lower than `1.16`.