

INSTALLATION MANUAL

CLASS-PT is installed and configured in 8 easy steps:

1. Download the OpenBLAS library from <http://www.openblas.net/>
2. Extract the library in some folder and configure the package by executing

```
$ make CC=gcc FC=gfortran
```

in that folder.

3. Install the package via

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

4. Download and unpack (or `git pull`) CLASS-PT
5. Change the path to OPENBLAS in CLASS-PT/Makefile to your actual path to the compiled library `path/to/OpenBLAS/lib/libopenblas.a`
6. Update the paths to `path/to/OpenBLAS/lib/libopenblas.a` in the `extra_link_args` of CLASS-PT/python/setup.py
7. Compile CLASS as usual by typing

```
$ make clean
```

```
$ make
```

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

Finally, a software-related warning is in order. We found that the OpenBLAS library 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 by a C call without any errors. If this is the case on user’s computer, an easy fix is to use the `numpy` versions lower than 1.16. We plan to resolve this issue in future releases.