

Installation

- [Installation](#)
- [Requirements](#)
- [Getting the code](#)
- [Setting path](#)
- [Update the code](#)

Requirements

MPI-AMRVAC is in use on Mac laptops, Unix desktops, and modern supercomputing facilities. The following software is required:

- A Fortran compiler, e.g. gfortran or ifort
- An MPI library, e.g. OpenMPI or intel MPI
- perl for the [VACPP](#) preprocessor (standard on Unix-based platforms)
- git to download and update the code

Getting the code

To install the code in folder `~/codes/amrvac` :

```
cd ~/codes
git clone https://github.com/amrvac/amrvac.git
```

Setting path

To use MPI-AMRVAC, the installation directory must be exported as an environment parameter called `AMRVAC_DIR` and this variable can be added to the command searching path.

To do so using bash, you should add the following line

to your `~/.bashrc` file (or perhaps `~/.profile` in mac OS):

```
export AMRVAC_DIR=$HOME/codes/amrvac  
PATH="$PATH:$HOME/codes/amrvac:$HOME/codes/amrvac/tools"
```

You can then activate the setting by sourcing this file (or you can close and open a new terminal shell),

```
source ~/.bashrc
```

Update the code

It is recommended to update the code regularly to benefit from new improvements and new features which are continuously developed. To update the code:

```
cd ~/codes/amrvac  
git pull
```

If you modified any source code of amrvac, which has an updated version, "git pull" will fail to update the code. You can give up your modification by "git checkout your_modified_file" after making a copy of your own version (if you want to keep it), then update the code. If you want to contribute your modification of the code, please read @ref [contributing.md](#) for more information.