

## GCC Installation Guide

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The installation procedures for GCC are different for Linux and macOS.

First check the GCC version on your operating system.

```
$ gcc --version
```

*parKVFinder* supports GCC versions later than 6. Otherwise, you must install a newer GCC version.

### Linux

To install the standard available version of GCC on your operating system, type:

```
$ sudo apt install gcc
```

*Note:* check the GCC version again to make sure you have installed a version later than 6.

If the default version GCC is not later than 6, you can install directly any later version by typing:

```
# GCC version 6
$ sudo apt install gcc-6
# GCC version 7
$ sudo apt install gcc-7
# GCC version 8
$ sudo apt install gcc-8
# GCC version 9
$ sudo apt install gcc-9
```

Then, there are two possible paths to prepare GCC to compile the *parKVFinder* source code.

- Create a symbolic link to your custom GCC

```
$ sudo ln -s /usr/bin/gcc-X /usr/local/bin/gcc
```

*Note:* **X** is the version of GCC you have installed.

- Replace GCC to gcc-X in **Makefile** within the *parKVFinder* directory

### macOS