How to install Discovar in Ubuntu 20.04?

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Problem:

You compiled Discovar using make all, you get this error:

```
make: *** [Makefile:288: install-recursive] Error 1
```

Solution:

Compile using gcc 4.x version.

Step by step:

1. Install requirements:

```
sudo apt-get install libjemalloc-dev
```

- 2. Install samtools (required if using bam files) ESTE PASO NO LO HE PROBADO
- \$ sudo apt-get install samtools
 - 3. Add a repository. Open the file:
- \$ sudo gedit /etc/apt/sources.list
 - 4. Add these lines, preferably at the end of the file.

```
#RPA ADDED
deb http://us.archive.ubuntu.com/ubuntu bionic main universe
```

- 5. Install gcc and g++ 4.8 version. Open a Terminal and execute:
- \$ sudo apt upgrade && apt install gcc-4.8 g++-4.8
 - 6. Configure multiple GCC versions.
- \$ sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-4.8 40 \
 --slave /usr/bin/g++ g++ /usr/bin/g++-4.8

```
$ sudo update-alternatives --install /usr/bin/gcc gcc /usr/bin/gcc-9 90 \
--slave /usr/bin/g++ g++ /usr/bin/g++-9
```

7. Choose 4.8 versiont. Type in Terminal:

```
$ sudo update-alternatives --config gcc
```

8. Install Discovar. Open the INSTALL file and follow the instructions. A short way:

```
tar xzf discovardenovo-NNNNN.tar.gz
cd discovardenovo-NNNNN
cd discovardenovo-52488/
./configure
make all
make install
```

where NNNNN is the Discovar version, in this example 52488 is the version.

9. Delete the repository url. Open the file and delete the last two lines added in previously step.

```
$ sudo gedit /etc/apt/sources.list
```

This step is necessary for stopping using a previous Ubuntu repository version.

Source:

• I solved this problem based in Discovar forum user group:

https://groups.google.com/a/broadinstitute.org/g/discovar-user-forum

searching this: Makefile:288 install-recursive

https://groups.google.com/u/1/a/broadinstitute.org/g/discovar-user-forum/c/RWFyF11-cjc/m/VLwHBQqeCAAJ

• Install gcc in Ubuntu 20.04

https://linuxize.com/post/how-to-install-gcc-on-ubuntu-20-04/

• Discovar - manual and faq

https://software.broadinstitute.org/software/discovar/blog/?page_id=19

• How to compile with gcc

https://stackoverflow.com/questions/27390078/gcc-compiling-c-code-undefined-reference-to-operator-newunsigned-long-lon/27390293