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# Compiling LibRoadRunner for CC3D on Linux (tested on Ubuntu distributions)

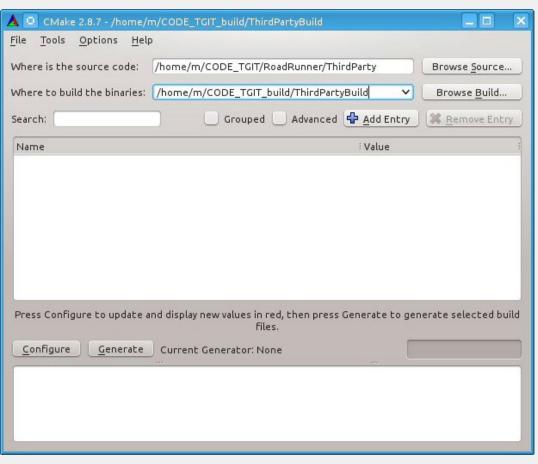
CC3D git repository contains a copy of a RoadRunner Library which has been customized to work with CC3D. You can find it in <CC3D\_Git\_root>/RoadRunner. In my case the location is /home/m/CODE\_TGIT/RoadRunner.

The compilation of RoadRunner is a two step process. First we build ThirdParty libraries located in /home/m/CODE\_TGIT/RoadRunner/ThirdParty folder and then we build actual RoadRunner library located in /home/m/CODE\_TGIT/RoadRunner.

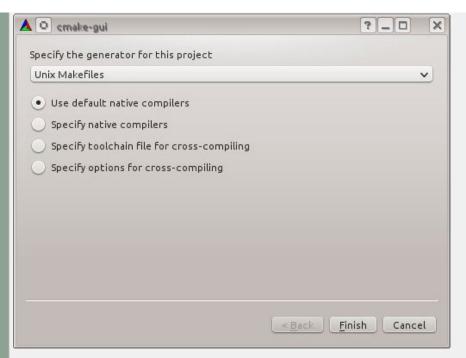
#### **Building ThirdParty libraries:**

#### **Cmake Configuration and Makefile generation**

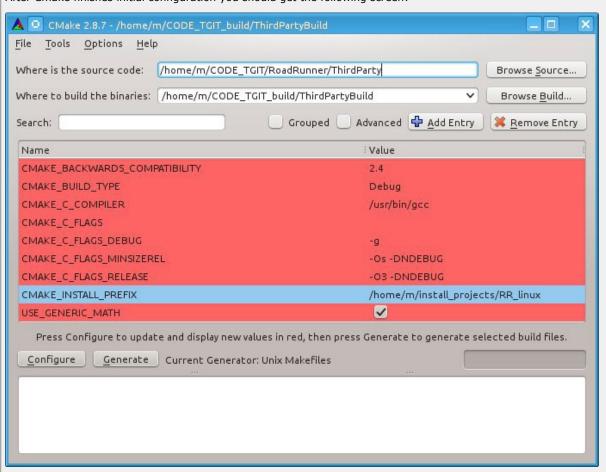
Open Cmake and point it to source (/home/m/CODE\_TGIT/RoadRunner/ThirdParty) and build (/home/m/CODE\_TGIT\_build/ThirdPartyBuild) directories:



Click configure button at the bottom and Unix Makefiles from pull down menu in the dialog box that pops up, click Finish:



After Cmake finishes initial configuration you should get the following screen:



Notice, I have changed CMAKE\_INSTALL \_PREFIX to point to /home/m/install\_projects/RR\_linux. It is a good idea to change it in your Cmake configuration as well to a directory where you will install RoadRunner.

Be careful here: Next thing we will do is to change build CMAKE\_BUILD\_TYPE variable from Debug to Release:

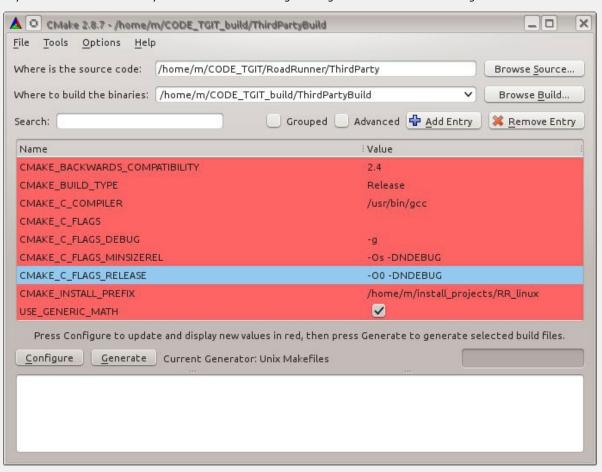
#### **IMPORTANT**:

You need to determine what type of linux installation you are dealing with because configuration options will depend on it. To check linux distribution simply type:

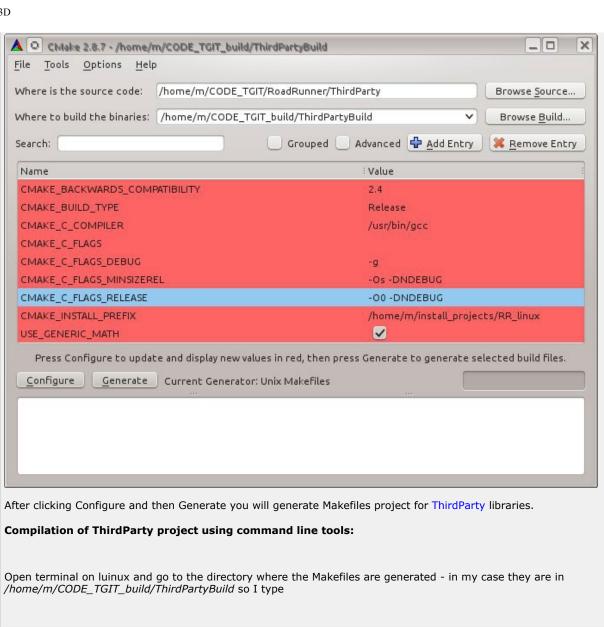
# in my case I get DISTRIB ID=Ubuntu DISTRIB\_RELEASE=12.04 DISTRIB\_CODENAME=precise DISTRIB\_DESCRIPTION="Ubuntu 12.04.2 LTS" NAME="Ubuntu" VERSION="12.04.2 LTS, Precise Pangolin" ID=ubuntu ID LIKE=debian PRETTY NAME="Ubuntu precise (12.04.2 LTS)" VERSION\_ID="12.04"

which tells me that I am on 32 bit machine (I don't see anywhere in the above printout phrases like  $x86\_64$  or 64 bit)

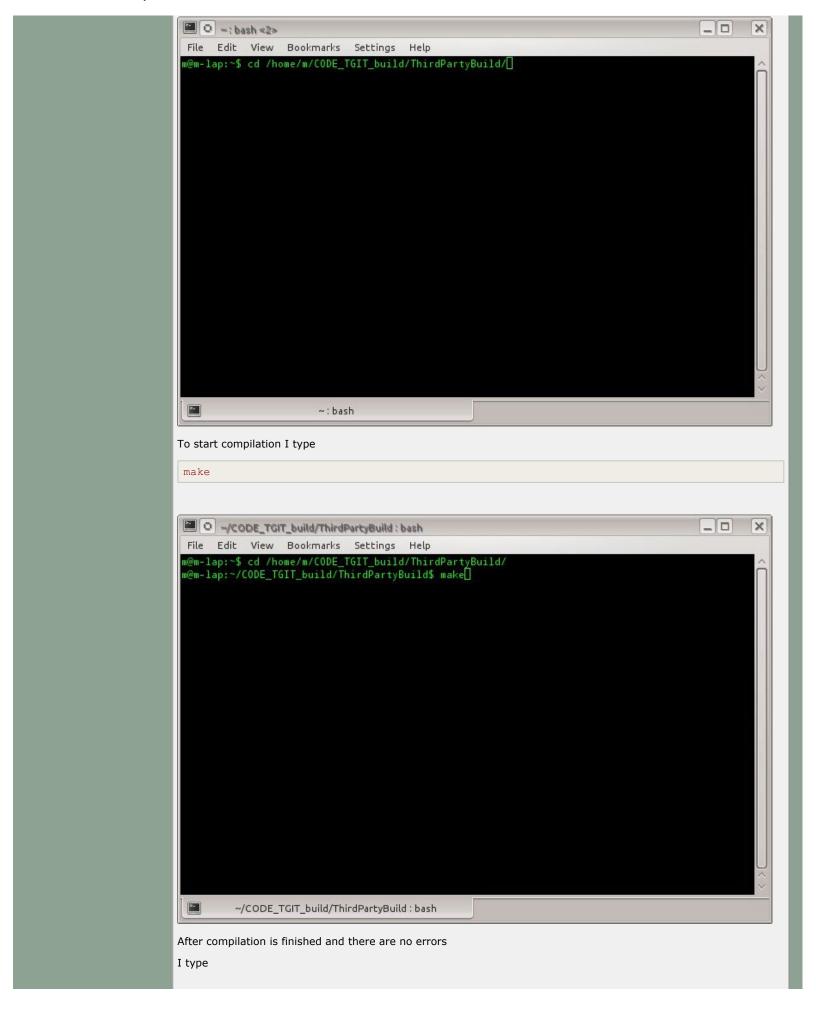
If you are on 64 bit linux all you need to do is to change Debug To Release as shown in figure below

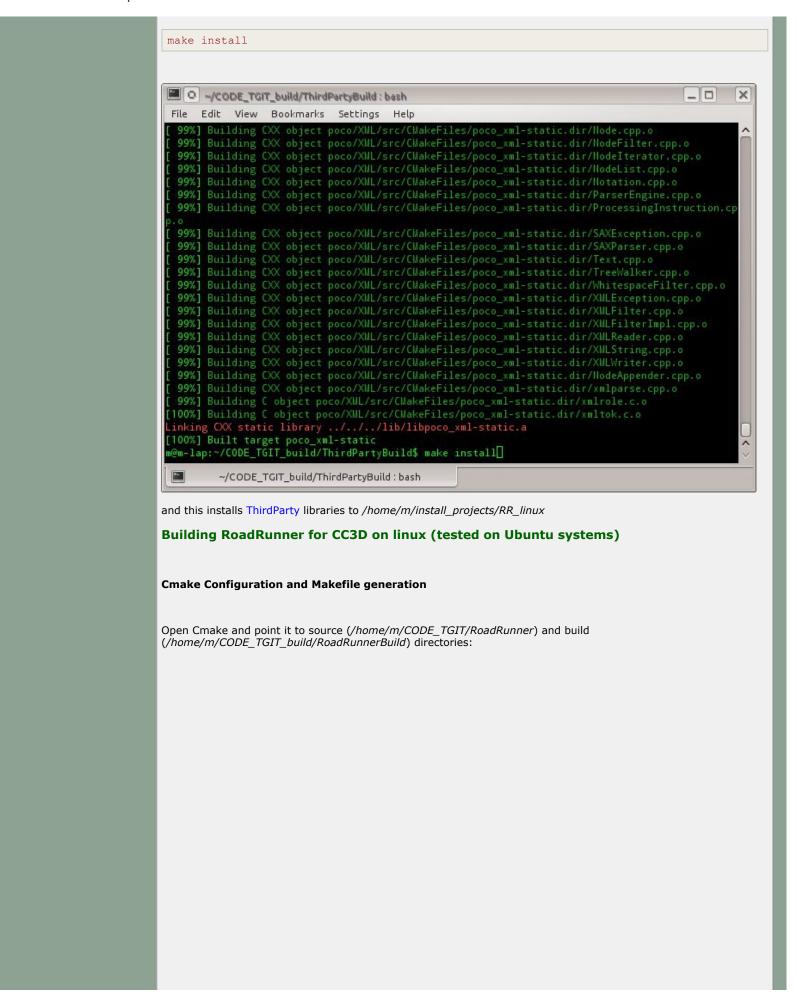


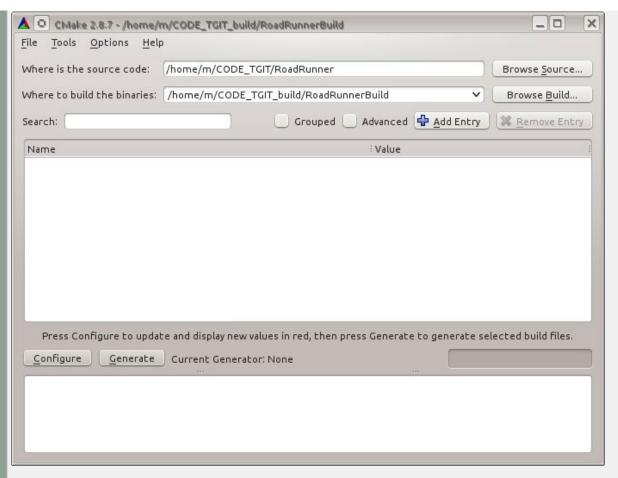
If you are on 32 bit linux installation you have to decrease optimization of the C code by changing CMAKE\_C\_FLAGS\_RELEASE to -OO -DNDEBUG as shown below:



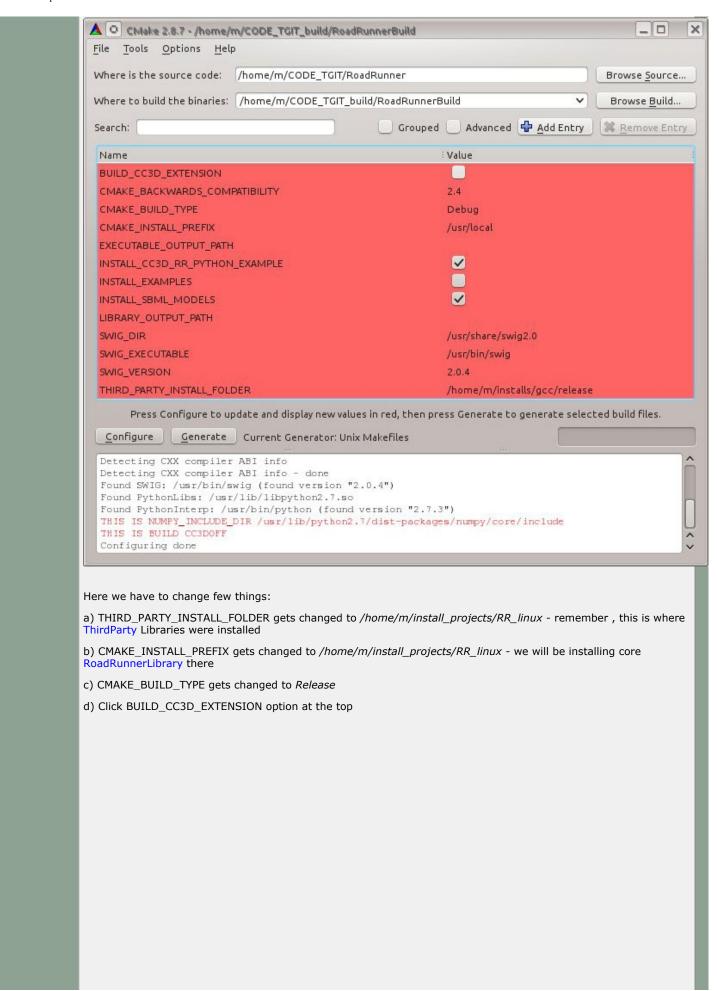
cd /home/m/CODE TGIT build/ThirdPartyBuild

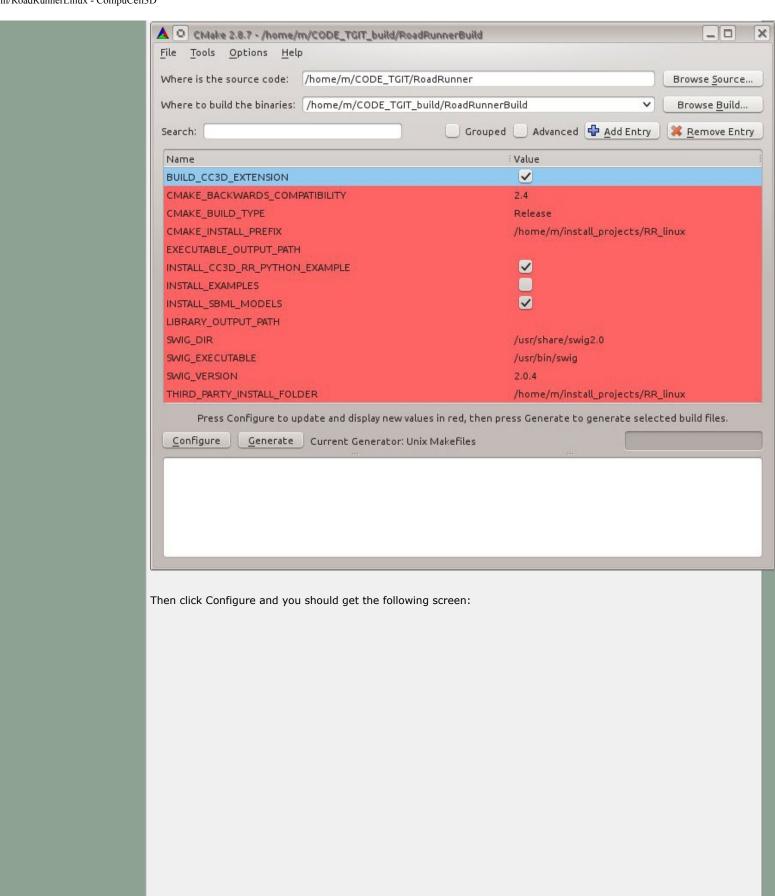


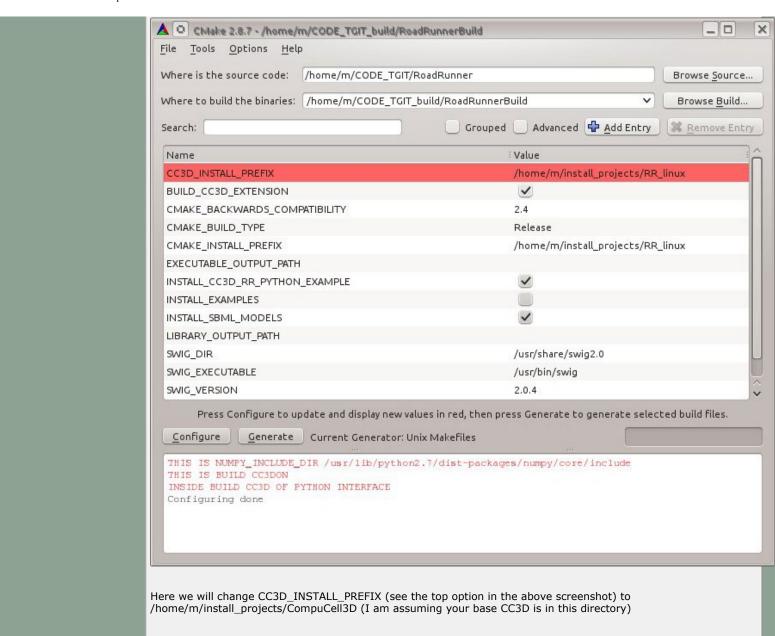


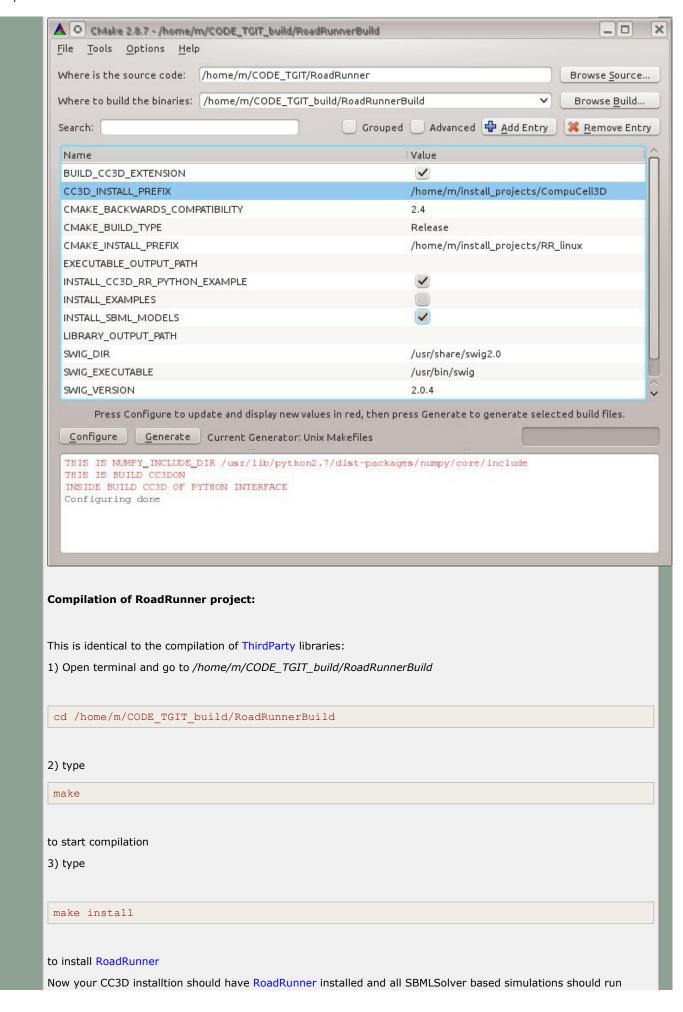


Click configure button at the bottom and Choose Unix Makefiles from pull down menu in the dialog box that pops up, click Finish. You should get the following screen









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