Guide to install LinuxCNC 2.5.4 with IRB6-S2 robot configuration

1. Install linuxcnc with Ubuntu 10.04 live_cd. You can download from:

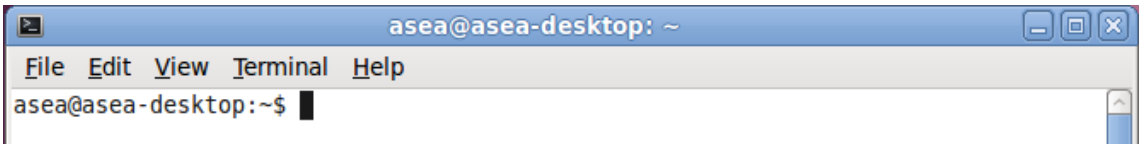
   http://linuxcnc.org/iso/ubuntu-10.04-linuxcnc3-i386.iso

   http://dsplabs.upt.ro/~juve/emc/get.php?file=ubuntu-10.04-linuxcnc3-i386.iso

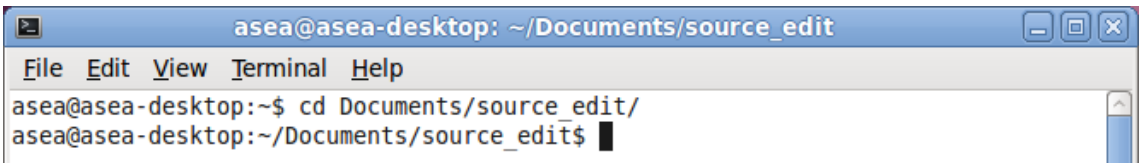
   More information about linuxcnc 2.5.4 installation and version requirements at

   http://linuxcnc.org/docs/2.5/html/common/Getting_EMC.html#_installing_linuxcnc

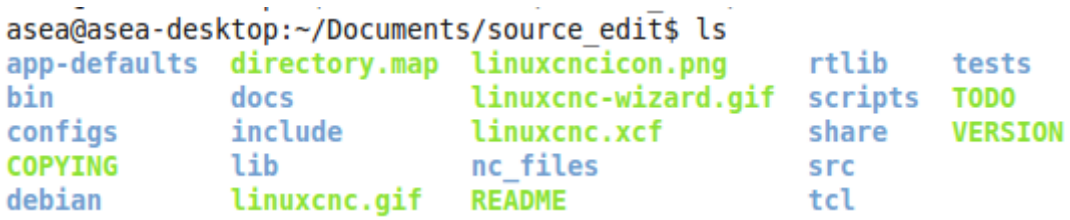
2. It is necessary basic information at Ubuntu 10.04 installation like:
   User: asea
   Password: irb
3. Copy the folder named as “irb_files” to “/home/asea/Documents” folder.
4. In “irb_files” folder you have 3 objects:
   “irb” folder: it has configuration files of robot.
   “source_edit” folder: it has source code of linuxcnc 2.5.4
   “irbgui” script: it has a python code of irb6-s2 virtual model
5. Open Ubuntu terminal (Ctrl+Alt+T)



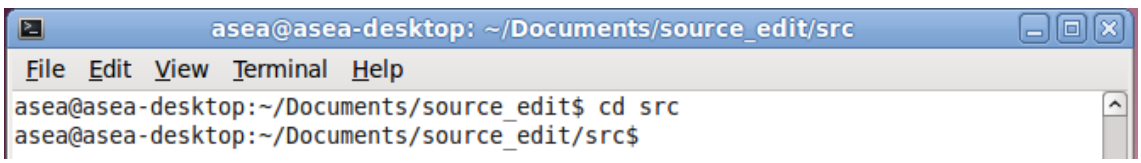
6. Go to “source_edit” folder with following commands:



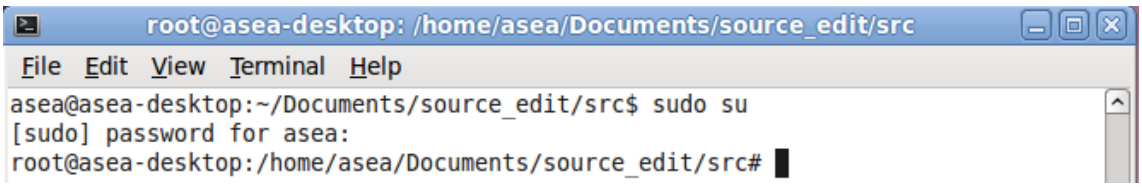
7. It is possible see folder content with “ls” command:



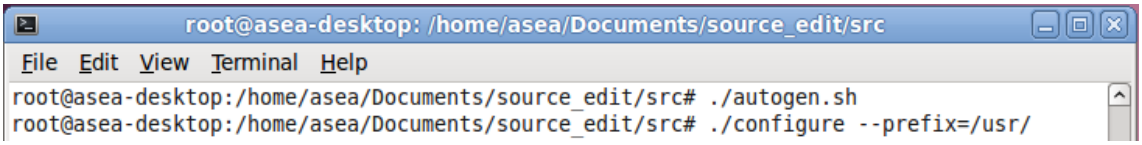
8. Go to “/src/” location



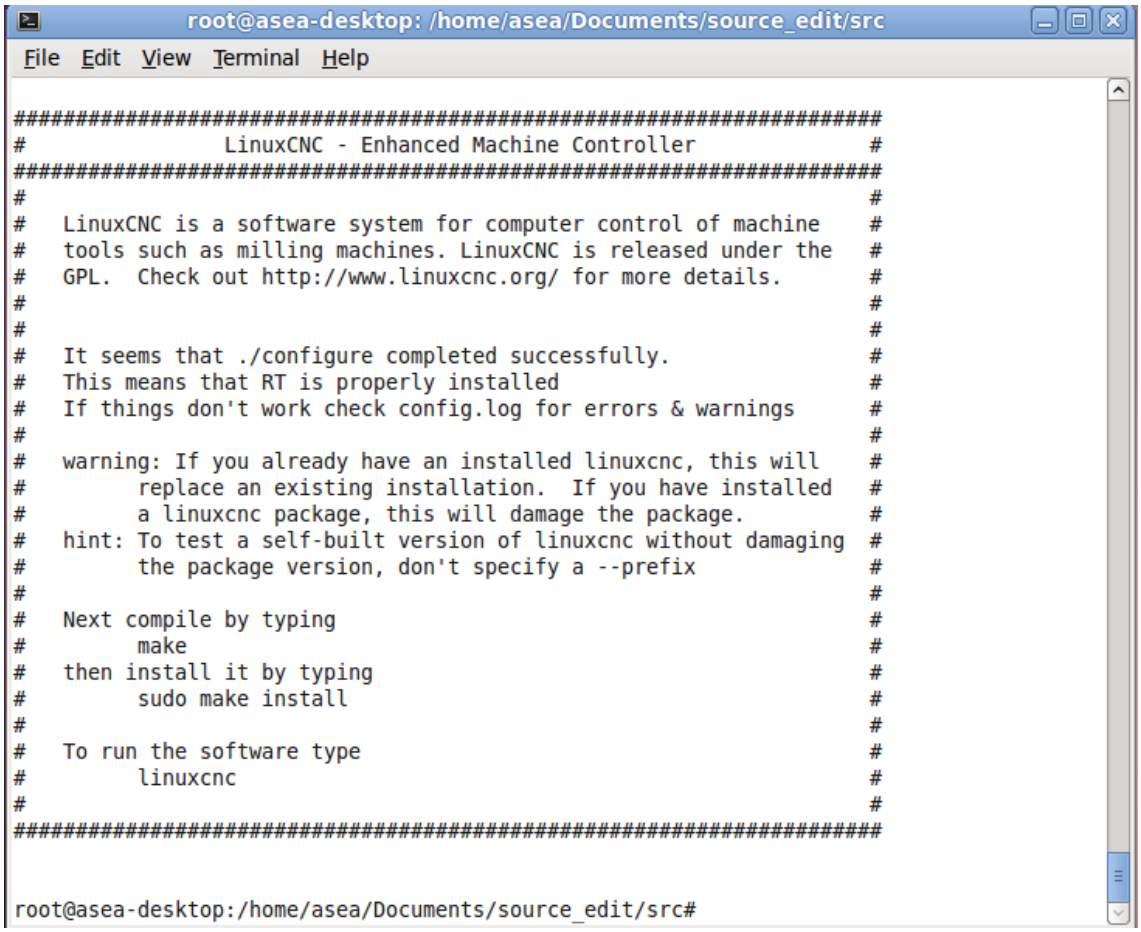
9. Now it is necessary compile entire linuxcnc source package with irb6-s2 configuration. First it is necessary have root privilegies:



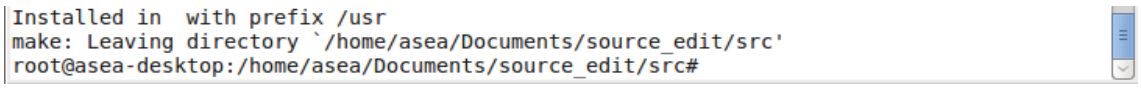
10. After that it is possible compile linuxcnc source package with:



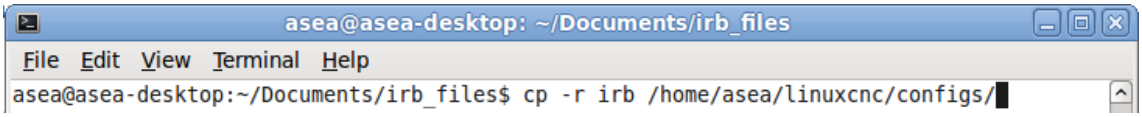
11. If everything it is right, terminal shows next message:



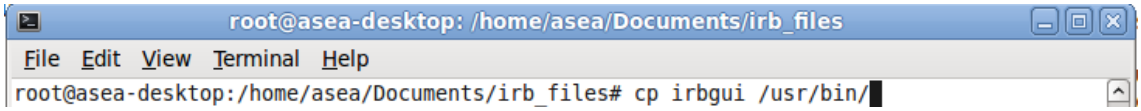
12. After linuxcnc source package is configured, it is possible compile with the next 3 commands:
    a) **make clean**: it removes any intermediate or output files from your source / build tree.
    b) **make**: This builds the program.
    c) **make install**: This again invokes make, make finds the target install in Makefile and files the directions to install the program.
13. If everything is right, system response is:



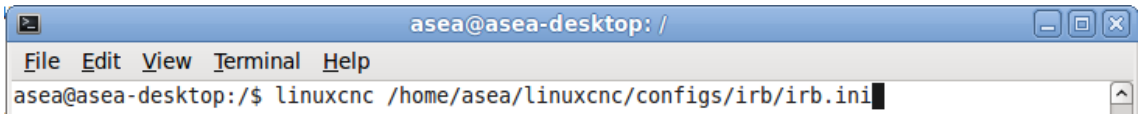
14. After compiling process it is necessary copy “irb” folder into /home/linuxcnc/configs/



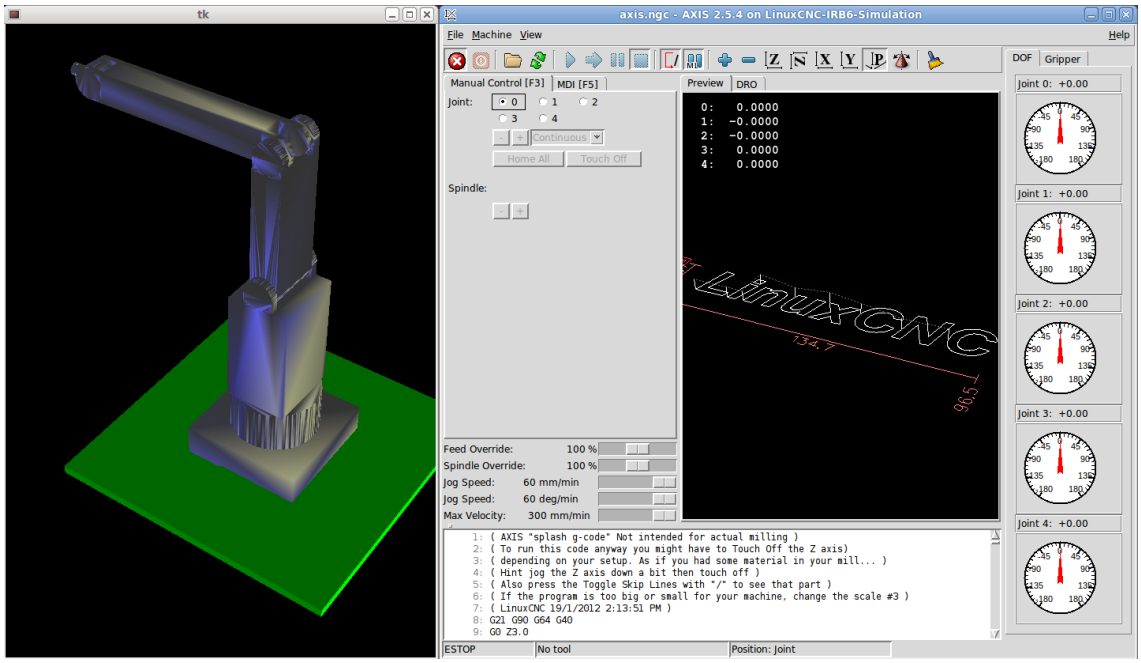
15. For robot simulation, it is necessary copy “irbgui” file into /usr/bin. With root privileges.



16. To execute linuxcnc with irb6-s2 configuration, the following is required:



17. Done, you can interact with irb6-s2 configuration in linuxcnc.



18. Any question or suggestion, send a message to jstoquica@gmail.com