Installing CompuCell on Linux systems

This short instruction will guide you through CompuCell installation process on Linux

1. Download CompuCell installation package to directory called, say CompuCellPrep
2. Go to CompuCellPrep (type : *cd ~/CompuCellPrep* notice that in Unix/Linux "~" denotes your home directory)
3. Unpack CompuCell*.tar.bz2 package by typing: *bunzip2 CompuCellFull4.tar.bz2*
4. Untar (i.e. Extract files from tar archive) by typing: *tar -xvf CompuCellFull4.tar*
5. Notice that new directory called *CompuCell* was created. Now, go to this directory(*cd CompuCell*)
6. Before you go any further , please make sure that you have installed required libraries and packages that are needed to compile CompuCell on your linux box.
   1. Check for autotools (automake, autoconf, autoheader, libtool) by typing: *automake –version*

      The output should look more or less as below
      automake (GNU automake) 1.9.5
      Written by Tom Tromey <tromey@redhat.com>.

      Type: *autoconf –version*

      Output should resemble below output
      autoconf (GNU Autoconf) 2.59
      Written by David J. MacKenzie and Akim Demaille.

      Type : *autoheader –version*

      The output should look like:
      autoheader (GNU Autoconf) 2.59
      Written by Roland McGrath and Akim Demaille.

      Check for libtool: *libtool –version*
      Output should be something like:
      ltmain.sh (GNU libtool) 1.5.8 (1.1220.2.118 2004/08/07 12:24:38)
   2. Check for qt3 library – this is the library that we use to program CompuCell Player. You need to have installed not just qt3 library but qt3 software development tools. Every linux distribution has those tools so you missed those packages during your linux install you can do it now. In any case, probably it is enough to check it qt3 development packages are installed by typing:
      qmake –version
      The output should resemble this:
      Qmake version: 1.07a (Qt 3.3.5)
   3. If you use 64-bit linux distribution you should also install package for xml parsing called **xerces-c**. It usually is a part of all relatively new linux distributions so you may be lucky to install it from your linux installation CD. If not, you should go to the website http://xml.apache.org/xerces-c/ and download it from there and there are installation instructions provided on this website as well. Now, if you use 32-bit linux (most popular one) you do not need to install **xerces-c**. It is included in CompuCell installation package.

7. Once all the packages are resent you are ready to install CompuCell. Make sure you are in the *CompuCellPrep/CompuCell* directory. Then type:
   ./install_full -i <installation_directory>
   where <installation_directory> is a full name of directory where you wish CompuCell to be installed. For example:
./install_full -i /home/mswat/CompuCell_install
will install CompuCell in *CompuCell_install* directory which is a subdirectory of my home directory (*/home/mwat*). Note that i can always write:
./install_full -i ~/CompuCell_install
and get same result.

The compilation will take some time. After it is finished go to installation directory (In may case I would go to **~/CompuCell_install** by typping : **cd ~/CompuCell_install**) and once there type:
./run_CompuCellNew.sh
CompuCell Player window will pop up. The installation is finished