

# Autom

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Autom is a new full automatic platform for electron tomography reconstruction. You can download this program at <http://ear.ict.ac.cn/> (<http://ear.ict.ac.cn/>).

## Operatin System Requirements

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Autom has been built under Red Hat Enterprise 6.4(64bit), Cenots 6.5(64bit),Ubuntu 14.04(64bit) and Ubuntu 16.04(64bit). Other systems may not be supported well.

## Library dependencies

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- CUDA8
- mpich2-1.4.1
- gnuplot(with PNG terminal support)

You can type `gnuplot` to enter gnuplot, then type `set terminal` to check whether your gnuplot has PNG terminal. If not, you can install LibGD by typing `yum install gd-devel` in Centos/Redhat or `apt-get install libgd2-xpm-dev` in Ubuntu.

In Centos/Redhat, you also need:

- gtk2-devel
- mesa-libGL-devel
- mesa-libGLU-devel
- libX11-devel
- libXi-devel
- libXinerama-devel
- libXcursor-devel
- libXrandr-devel
- freeglut-devel

Type `yum install <library_name>` to install these dependencies in Centos/Redhat.

In Ubuntu, you also need:

- libgtk2.0-dev
- mesa-common-dev
- mesa-utils-extra

- libgl1-mesa-dev
- libglu1-mesa-dev
- libglapi-mesa
- libx11-dev
- libxi-dev
- libxinerama-dev
- libxcursor-dev
- libxrandr-dev
- freeglut3-dev

Type `apt-get install <library_name>` to install these dependencies in Ubuntu.