## 1 Download ProNoC Source Code

In order to download ProNoC source code open the terminal and run:

## 2 Install Perl modules

Install GTK library

```
sudo apt-get install build-essential
sudo apt-get install libgtk2.0-dev libglib2.0-dev
sudo apt-get install libpango1.0-dev
```

Now run cpan

sudo cpan

If cpan needs any configuration setting answer them 'yes'.

Then install the following in order

```
install ExtUtils::Depends
install ExtUtils::PkgConfig
install Glib
install Pango
install Gtk2
```

Other required modules:

```
install String::Similarity
```

Exit cpan

exit

## 3 Download aeMB & lm32 compilers

Download the aeMB compiler at

```
http://gnuradio.org/tools/mb-gcc-4.1.1.gr2.i386.tar.gz
```

Download the lm32 compiler at

```
http://www.ohwr.org/attachments/1301/gcc-4.5.3-lm32.tar.xz
```

Unzip the files and copy them in mpsoc\_work/toolchain directory:

```
tar xf gcc-4.5.3-lm32.tar.xz
mv lm32 mpsoc_work/toolchain/
tar xvzf mb-gcc-4.1.1.gr2.i386.tar.gz
mv microblaze mpsoc_work/toolchain/aemb
```

Add *ihex2mif* to your toolchain:

cp -R mpsoc/src\_c/ihex2mif/ mpsoc\_work/toolchain/
cd mpsoc\_work/toolchain/ihex2mif
make

Add mpsoc\_work path to the PATH variable in .bashrc file:

gedit ~/.bashrc

Add PRONOC\_WORK variable to .bashrc file and save the file:

export PRONOC\_WORK={path\_to\_mpsoc\_work\_directory}
# e.g export PRONOC\_WORK=/home/alireza/Mywork/mpsoc\_work

The 32 bit library is required on 64 bit system. If it is not installed run:

sudo apt-get install lib32z1

## 4 Run gui application

cd mpsoc/perl\_gui
./ProNoC.pl