

MicroMagic Setup

Last updated 2/25/19

MicroMagic Setup

- MicroMagic's MAX is a Computer Aided Design (CAD) tool focused on Integrated Circuit (IC) design
- www.micromagic.com
- It runs in Linux
- It requires a license to run
 - Served from an MSOE computer
 - Must be connected to the MSOE network

MicroMagic Setup

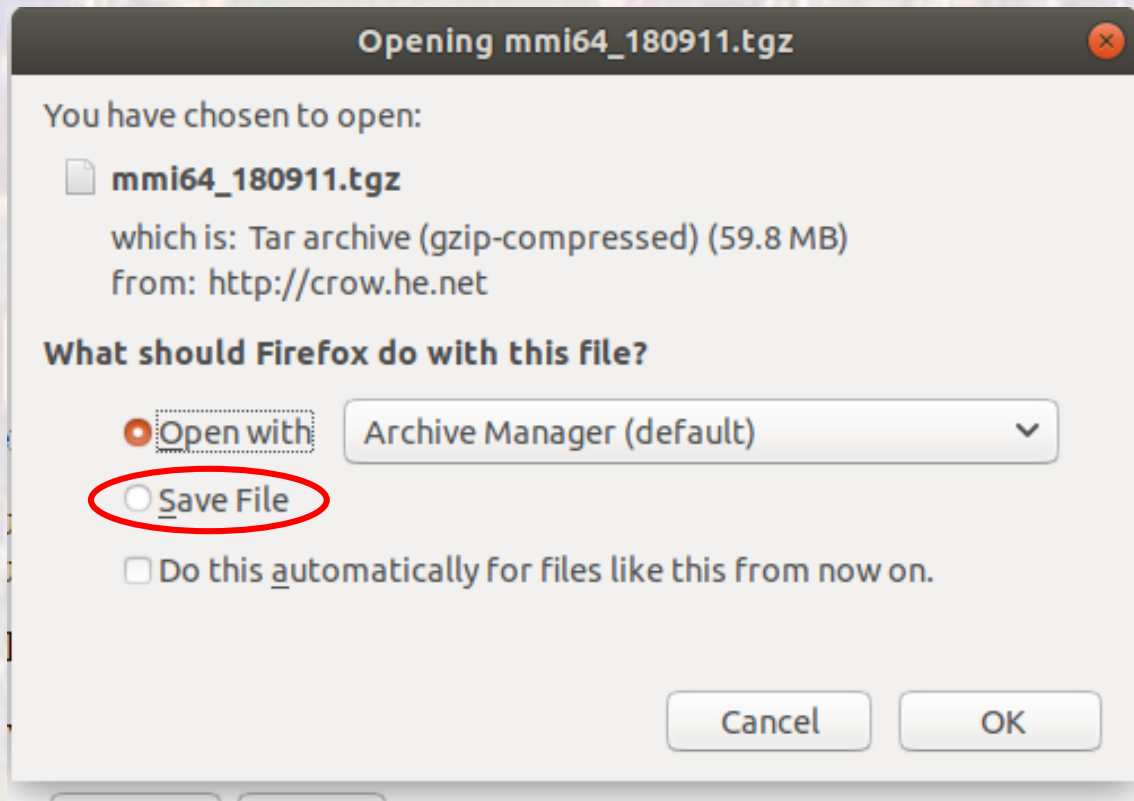
LINUX

- MicroMagic Software Download
 - Open the following web page using the Firefox browser
 - <http://www.micromagicdownloads.com/download.html>
 - Fill in the form
 - password (see instructor)
 - Linux 64 bit only
 - The mmi64_XXXXXX file will be downloaded

MicroMagic Setup

LINUX

- MicroMagic Software Download
 - Select Save File
 - Leave the default download location as [Downloads](#)



MicroMagic Setup

LINUX

- MicroMagic Software Install
 - Open a terminal in Linux – `ctrl+alt+t`

```
cd
mkdir -p ~/cad
cp ~/Downloads/mmi64_180911.tgz ~/cad
cd ~/cad
tar -xzvf ~/cad/mmi64_180911.tgz
ln -s ~/cad/mmi64_180911 ~/cad/mmi
cp -a ~/cad/mmi/mmi_local.sample ~/cad/mmi_local
echo "# Setup for Micro Magic CAD tools" >> ~/.bashrc
echo "MMI_TOOLS=~cad/mmi" >> ~/.bashrc
echo "export MMI_TOOLS" >> ~/.bashrc
echo "PATH=${MMI_TOOLS}/bin.i486-linux:$PATH" >> ~/.bashrc
echo "export PATH" >> ~/.bashrc
echo "export MMI_LICENSE_SERVER=applicense5.msoe.edu" >> ~/.bashrc
```

TRIPLE check before hitting enter on each command

MicroMagic Setup

LINUX

- MicroMagic Software Install

- Close the terminal – `ctrl+d`

- Open a terminal – `alt+ctrl+t`

```
cd ~
```

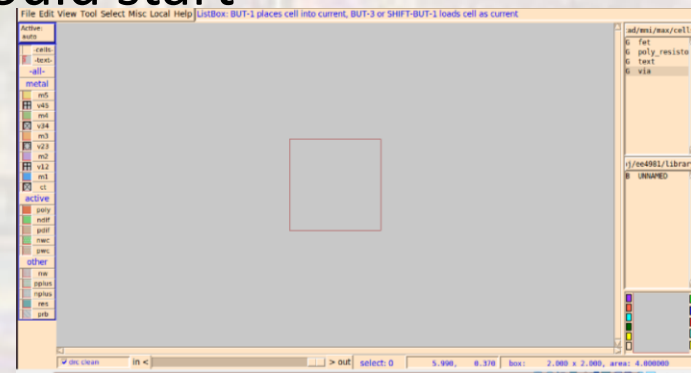
```
mkdir ee4981
```

```
cd ee4981
```

```
max
```

- The MicroMagic software should start

- Exit Max



MicroMagic Setup

LINUX

- MicroMagic Software Install – MSOE
 - In Firefox - Go to Dr. Johnson's webpage in Firefox
([search Johnson MSOE](#))
 - Go to [EE4981](#)
 - Go to [Labs](#)
 - Select [MSOE 25nm Technology Directory](#)
 - Save Link As – save into [Home/cad/mmi/max/tech](#)
- In Linux terminal – `ctrl+alt+t`
`cd`
`cd cad/mmi/max/tech`
`tar -xvf msoe25.tar.gz`

TRIPLE check before hitting enter on each command

MicroMagic Setup

LINUX

- MicroMagic Software Install – MSOE
 - In Firefox - Go to Dr. Johnson's webpage in Firefox
 - Go to [EE4981](#)
 - Go to [Labs](#)
 - Select [SRAM bit example](#)
 - Save Link As – save into [Home/ee4981](#)
- In Linux terminal – `ctrl+alt+t`
 - `cd`
 - `cd ee4981`
 - `max -tech msoe25 sram_bit`
- The SRAM cell should open in MAX

TRIPLE check before hitting enter on each command

MicroMagic Setup

- SRAM_bit in MicroMagic-MAX

