

MAGIC VLSI INSTRUCTIONS FOR MacOS USERS

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Hello everyone! This is Tanalp Şengün. I have struggled so much before finishing my homework and help you out before having so much errors and getting in troubles.

Instructions

- I. Go to <https://www.virtualbox.org/wiki/Downloads> to download the free Oracle's free virtual box**
- II. Click the OSx Hosts under VirtualBox 6.1.10 platform packages**
- III. The download will automatically start.**
- IV. Before downloading, make sure that you have enough (>20 GB) space in your hard disk.**
- V. Go to <https://ubuntu.com/download/desktop> page and download Ubuntu 20.04 LTS by clicking the download**
- VI. The download will automatically start.**
- VII. After downloaded two files, open the virtual box, click new and write linux, the app will automatically understand that you want linux (Ubuntu 64 bit.)**
- VIII. I recommend you to part at least half of the computers ram to your initial computer system as it can freeze otherwise.**
- IX. Click VDI for hard disk file type**

- X. Click dynamically allocated for storage on physical hard disk.**
- XI. I suggest you to spare at least 20 gb for not freeze the computer.**
- XII. After everything is set you can start working on your linux.**
- XIII. You can download the magic now and install it using the command line**
- XIV. You can use the following commands to download everything (Here I found the video of commands to fix problems. *Thanks to UTKARSH.)**

```
#!/bin/bash
```

```
echo "*****"
```

```
echo "***** Thanks to UTKARSH *****"
```

```
wget http://opencircuitdesign.com/magic/archive/magic-8.1.198.tgz
```

```
tar xvfz magic-8.1.198.tgz
```

```
cd magic-8.1.198
```

```
#cd Downloads/
```

```
#tar xzf magic-7.5.232.tgz
```

```
#cd magic-7.5.232/
```

```
sudo apt-get install m4
```

```
sudo apt-get install tcl-dev
```

```
sudo apt-get install tk-dev
```

```
sudo apt-get install blt
```

```
sudo apt-get install freeglut3
```

```
sudo apt-get install libglut3
```

```
sudo apt-get install libgl1-mesa-dev
```

```
sudo apt-get install libglu1-mesa-dev
```

```
sudo apt-get install csh
```

```
./configure
```

```
sudo make
```

```
sudo make install
```

```
cd ../
```

magic

- XV. I still had a problem and fixed it using changing the downloading location from default to mirror.edge.kernel.org (This is because my keyboard is Turkish.**
- XVI. After that Magic should be opened.**
- XVII. Lastly, please be aware that some macbook functions can not be used in magic, for example to use middle click normally three fingers click. So I recommend a mac user to use the command line of magic instead of clicking in to the toolbox.**
- XVIII. Have fun using the Magic VLSI in MacBook.**

HAVE FUN USING THE MAGIC! HOPE YOU WILL HAVE NO PROBLEMS, IF YOU HAVE TRIED SEVERAL TIMES AND CAN NOT SOLVE THE PROBLEMS YOU CAN GET MY MAIL ADRESS FROM THE INSTRUCTOR!